Village of Winnetka
Village Council Regular Meeting

February 17, 2026 at 7:00 PM
Village Hall
510 Green Bay Road

AGENDA

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Quorum**
   a. March 3, 2026 Special Meeting
   b. March 3, 2026 Regular Meeting
   c. Thursday, March 19, 2026 Regular Meeting
4. **Public Comments**
5. **Reports**
6. **Establishment of Consent Agenda**
7. **Approval of Consent Agenda**
   a. Approval of Village Council Minutes
      i. January 20, 2026 Special Meeting
      ii. January 20, 2026 Regular Meeting
   b. Approval of Warrant List Dated January 30, 2026 - February 12, 2026
   c. Resolution No. R-02-2026: Approving a Contract with City Escape Garden & Design Center, LLC for Landscape Maintenance Services (Adoption)
   d. Resolution No. R-03-2026: Waiving Competitive Bidding and Approving the Purchase of a Derrick Truck from Altec Industries, Inc. (Adoption)
   e. Resolution No. R-04-2026: Approving a Contract with Swallow Construction Corporation for Construction Services for the Ravines Sanitary Pumping Station and Forcemain Rehabilitation (Adoption)
   f. Resolution No. R-18-2026: Approving the Purchase of One Police Vehicle From Currie Motors Commercial Center (Adoption)
   g. Resolution No. R-19-2026: Approving a Contract with House of Doors Inc. for Overhead Door Replacement Services Phase II (Adoption)
8. **Ordinances and Resolutions**

NOTICE

Village Council meetings are video recorded. All agenda materials are available at villageofwinnetka.org *(Governance > Agendas & Minutes); the Reference Desk at the Winnetka Library; or in the Manager's Office at Village Hall (2nd floor).* The Village of Winnetka, in compliance with the Americans with Disabilities Act, requests that all persons with disabilities who require certain accommodations to allow them to observe and/or participate in this meeting or have questions about the accessibility of the meeting or facilities, contact the Village ADA Coordinator, 510 Green Bay Road, Winnetka, Illinois 60093, 847-716-3543; T.D.D. 847-501-6041.

9. Old Business

a. Hubbard Woods Parking Structure - Signage Aesthetics Plan Preliminary Review

10. New Business

a. 736 Elm Street – Solidcore – Special Use Permit – Policy Direction

11. Appointments

12. Closed Session

13. Adjournment

MINUTES
WINNETKA VILLAGE COUNCIL
SPECIAL MEETING
January 20, 2026

(Approved: xx)

A record of a legally convened special meeting of the Council of the Village of Winnetka, which was held in the 2nd floor Conference Room on Tuesday, January 20, 2026 at 5:45 PM.

1) Call to Order. President Dearborn called the meeting to order at 5:45 PM. Village Manager Kristin Kazenas called the roll of the Village Council. Present: Trustees Kirk Albinson, Rob Apatoff, Tina Dalman, Kim Handler, Scott Myers, and Bridget Orsic. Absent: None. No persons were present in the audience.

2) Public Comment. No public comment.

3) Closed Session for the Purpose of Discussing Specific Personnel and Probable and Pending Litigation Pursuant to Section 2(c)(1) and 2(c)(11) of the Open Meetings Act.

   Trustee Handler, seconded by Trustee Albinson, moved to adjourn to Closed Session for the purpose of discussing specific personnel and probable and pending litigation pursuant to Section 2(c)(1) and 2(c)(11) of the Open Meetings Act and to adjourn the Open Meeting automatically and immediately upon the conclusion of the special meeting without the conduct of any further business or comments. By roll call vote, the motion carried. Ayes: Trustees Albinson, Apatoff, Dalman, Handler, Myers, and Orsic. Nays: None. Absent: None.

   The Council adjourned into Closed Session at 5:50 p.m.

4) Adjournment. The Closed Session meeting ended at 6:45 pm.

_____

Recording Secretary

MINUTES
WINNETKA VILLAGE COUNCIL
REGULAR MEETING
January 20, 2026

(Approved: xx)

A record of a legally convened meeting of the Council of the Village of Winnetka, which was held at Council Chambers on Tuesday, January 20, 2026, at 7:00 PM.

1) Call to Order. President Dearborn called the meeting to order at 7:01 PM. Village Manager Kristin Kazenas called the roll. Present: Trustees Kirk Albinson, Rob Apatoff, Tina Dalman, Kim Handler, Scott Myers and Bridget Orsic. Absent: None. Also present: Village Attorney Courtney Trefil, Interim Economic Development Manager Dan Gardner and approximately 2 persons in the audience.

2) Pledge of Allegiance. President Dearborn led the group in the Pledge of Allegiance.

3) Quorum.

   a) February 3, 2026 Regular Meeting All of the Council members present said they expect to attend.

   b) February 10, 2026 Study Session All of the Council members present said they expect to attend with the exception of Trustee Orsic and Trustee Dalman.

   c) February 17, 2026 Regular Meeting All of the Council members present said they expect to attend with the exception of Trustee Handler.

4) Presentations.

   a) National Charity League Winnetka Community Beautification Project

      Members of the National Charity League, an organization fostering collaboration between mothers and daughters to serve communities, provide Council an overview of the organization including its mission, initiatives, core pillars and specific local chapter.

      NCL Winnetka members provide information regarding the chapter's partnership with the Friends of the Green Bay Trail and an overview of the proposed mural project. Members discussed the anticipated benefits of the project to the community, including community engagement and aesthetic enhancement. Additionally, Council is briefed regarding the process for developing the mural, necessary approvals by the Design Review Board, Village Council and Union Pacific, as well as the anticipated steps for project execution and matters related to funding.

      Council discusses obtaining the necessary approvals, restoration, mural upkeep and maintenance, project messaging, and overall plans for funding the beautification project.

      Trustee Handler encourages NCL members to consider utilizing the community's natural resources in lieu of an art mural and, should the project proceed, expresses concerns regarding community criticism despite the significant time and effort invested in the project.

      Council provides consensus for the project to proceed with the understanding that the final mural design will be presented back to the Council for feedback, then submitted to the Design Review Board for consideration, returned to the Council for further review and

approval, and subsequently forwarded to Union Pacific for final consideration.

5) Public Comment:

President Dearborn advises that at the January 6th Council meeting, Ted Wynnychenko indicated that he will read a letter that was sent to him on September 11, 2025. The letter was signed by President Dearborn, Police Chief Brian O'Connell, Village Attorney Peter Friedman, former Village Manager Rob Bahan, and Village Manager Kristin Kazenas reinforcing the standards for allowable public comment. President Dearborn reads the letter into the record.

a) Ted Wynnychenko addresses matters related to public comment and treatment of Village residents.

b) Glen Folstrom addresses Council regarding opening a fish market.

6) Reports:

a) Trustees. No report.

b) Attorney. No report.

c) Manager.

Village Manager Kazenas welcomes Deputy Village Manger Hannah Lipman. Additionally, Council is provided an update regarding leaf collection efforts.

d) Village President. No report.

7) Establishment of the Consent Agenda.

Trustee Dalman seconded by Trustee Apatoff moved to approve the Establishment of the Consent Agenda. By voice vote, the motion carried.

8) Approval of the Consent Agenda

a) Approval of Village Council Minutes

i. December 16, 2025 Regular Meeting

b) Approval of Warrant List Dated January 1, 2026 – January 15, 2026 in the amount of $1,060,336.26.

c) Ordinance No. M-02-2026: Authorizing the Disposition of Surplus Personal Property Owned by the Village of Winnetka (Introduction/Adoption)

d) Resolution No. R-01-2026: Waiving Competitive Bidding and Approving the Purchase of a Line Truck from Altec Industries, Inc. (Adoption)

e) Resolution No. R-07-2026: Approving an Agreement with the Board of Education of New Trier Township High School District No. 203 for Reciprocal Reporting, Digital Image Access, and a School Resource Officer (Adoption)

f) Resolution No. R-09-2026: Approving a Contract with Wesco Distribution Inc. for the Purchase of 600 Volt Underground Cable (Adoption)

g) Resolution No. R-10-2026: Waiving Bidding Requirements and Awarding a Contract to Currie Motors Commercial Center for the Purchase of a Public Works Vehicle (Adoption)

h) Resolution No. No. R-12-2026: Approving a Policy Concerning Attendance at Village Meetings by Video or Audio Conference (Adoption)

Trustee Myers seconded by Trustee Dalman, moved to approve the foregoing items on the Consent Agenda by omnibus vote. By roll call vote, the motion carried. Ayes: Trustees Albinson, Apatoff, Dalman, Handler, Myers and Orsic. Nays: None. Absent: None.

9) Ordinances and Resolutions.

   a) Resolution No. R-11-2026: Approving a Lease Agreement with Greatest Italian Beef LLC for a Portion of 754 Elm Street (Adoption)

   Village Manager Kristin Kazenas introduces Dan Gardner, Interim Economic Development Manager.

   Interim Economic Development Manager Dan Gardner advises Council regarding the renewal of a one-year lease for Hofherr Meats from January 25, 2026 – January 31, 2027.

   Arielle Hofherr advises Council regarding business operations and communication with Metra and Union Pacific.

   Council discusses matters related to parking and signage.

   Trustee Handler, seconded by Trustee Orsic, moved to adopt Resolution No. R-11-2026. By roll call vote, the motion carried. Ayes: Trustees Albinson, Apatoff, Dalman, Handler, Myers and Orsic. Nays: None. Absent: None.

10) Old Business. None.

11) New Business. None.

12) Appointments: None.

13) Closed Session: None.

14) Adjournment. Trustee Apatoff, seconded by Trustee Myers moved to adjourn the meeting. By voice vote, the motion carried. The meeting adjourned at 7:40 p.m.

_____

Recording Secretary

Village of
WINNETKA, IL

Agenda Item Executive Summary

TITLE: Approval of Warrant List Dated January 30, 2026 - February 12, 2026

PRESENTER: Kristin Kazenas

AGENDA DATE: February 17, 2026

CONSENT: Yes

ITEM TYPE: Consent Agenda

ITEM HISTORY:
None.

EXECUTIVE SUMMARY:
The Warrant List Dated January 30, 2026 - February 12, 2026.

RECOMMENDATION:
Consider Approving the Warrant List Dated January 30, 2026 - February 12, 2026.

ATTACHMENTS:
None

Village of
WINNETKA, IL

Agenda Item Executive Summary

TITLE: Resolution No. R-02-2026: Approving a Contract with City Escape Garden & Design Center, LLC for Landscape Maintenance Services (Adoption)

PRESENTER: Andrew Lueck

AGENDA DATE: February 17, 2026

CONSENT: Yes

ITEM TYPE: Consent Agenda

ITEM HISTORY:
The FY 2026 budget includes $175,000 in account 100.30.01-543 for the Village-wide landscaping contract, including the purchase of mulch for the contract. The contract was previously managed by Public Works and is included in the Public Works budget. The contract will be managed by Forestry/Engineering starting in 2026.

EXECUTIVE SUMMARY:
The Village landscape maintenance contract consists of weekly mowing; litter pickup; cultivating; spraying; pruning; deadheading; mulching; edging; weed control; trimming of beds and around trees; and planting or relocating, splitting of perennials, from March 15 through November 20. The contract also establishes hourly rates for additional maintenance activities should these services be necessary. The Village's agreement with Christy Webber Landscapes expired at the end of the 2025 season. Staff worked closely with the Village's GIS Specialist to update the comprehensive landscape maintenance activity maps for each of the 21 designated landscape areas.

This contract is for a period of three years, with an option to extend for an additional two years. The work is expected to commence March 15, 2026 and terminate on November 20, 2028. A mandatory pre-bid meeting was held on January 16, 2026 and bids were opened on January 29, 2026.

Four bids were received, and their yearly cost is as follows:

City Escape Garden & Design Center, LLC: $163,024.20
Fleck's Landscaping: $164,556
Christy Webber & Company: $203,760
A&B Sanchez Inc.: $211,320

Staff reviewed the five bids received, including proposed cost and firm qualifications. City Escape Garden & Design Center, LLC ("City Escape") provided the lowest annual bid. City Escape also provided the lowest average hourly cost for additional maintenance activities.

City Escape has not performed work for the Village of Winnetka in the past. However, they provided references for similar contracts performed for other nearby municipalities and favorable feedback for contract performance was received for all references. Staff recommends awarding the contract to City Escape in the amount not to exceed $163,024.20 per year.

RECOMMENDATION:
Consider adoption of Resolution No. R-02-2026, awarding the 2026-2028 Landscape Maintenance Services contract to City Escape Garden & Design Center, LLC for an estimated annual amount not to exceed $163,024.20.

ATTACHMENTS:
1. Resolution No. R-02-2026: Approving a Contract with City Escape Garden & Design Center, LLC for Landscape Maintenance Services
2. 2026 Village Landscape Maintenance Services RFB#026-002
3. City Escape Garden & Design Center, LLC Bid Package

ATTACHMENT 1

RESOLUTION NO. R-02-2026

A RESOLUTION APPROVING A CONTRACT WITH CITY ESCAPE GARDEN & DESIGN CENTER, LLC FOR LANDSCAPE MAINTENANCE SERVICES

WHEREAS, Article VII, Section 10 of the 1970 Illinois Constitution authorizes the Village of Winnetka (***"Village"***) to contract with individuals, associations, and corporations in any manner not prohibited by law or ordinance; and

WHEREAS, the Village issued Bid No. 026-002 (***"Request for Bids"***) to provide the Village landscape maintenance services (***"Services"***); and

WHEREAS, the Village received four bids (***"Bids"***) to provide the Services and opened the Bids on January 29, 2026; and

WHEREAS, pursuant to Chapter 4.12 of the Village Code and the Village's purchasing manual, the Village Council has determined that City Escape Garden & Design Center, LLC (***"Contractor"***) is the lowest responsive and responsible bidder to provide the Services; and

WHEREAS, the Village Council desires to enter into a three-year contract, with an option to extend an additional two years, with Contractor for Contractor to provide the Services to the Village in an amount not to exceed $163,024.20 annually (***"Contract"***); and

WHEREAS, the Village Council has determined that it is in the best interests of the Village and its residents to enter into the Contract with Contractor;

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Village of Winnetka, Cook County, Illinois, as follows:

SECTION 1: RECITALS. The Village Council hereby adopts the foregoing recitals as its findings, as if fully set forth herein.

SECTION 2: APPROVAL OF CONTRACT. The Village Council hereby approves the Contract in substantially the form attached to this Resolution as **Exhibit A** and in a final form approved by the Village Manager.

SECTION 3: AUTHORIZATION TO EXECUTE CONTRACT. The Village Council hereby authorizes and directs the Village President and the Village Clerk to execute and attest, respectively, on behalf of the Village, the final Contract after receipt by the Village Manager of two executed copies of the final Contract from Contractor; provided, however, that if the Village Manager does not receive two executed copies of the final Contract from Contractor within 60 days after the date of adoption of this Resolution, then this authority to execute and seal the Contract will, at the option of the Village Council, be null and void.

SECTION 4: AUTHORIZATION TO EXERCISE OPTION TO EXTEND CONTRACT. The Village Council hereby authorizes the Village Manager to exercise, on behalf of the Village, the renewal options of the Contract (***"Extensions"***) for 2029 and 2030 if: (a) the

Village Manager determines, in their discretion, that the Extensions are favorable to the Village; and (b) the Extensions are substantially similar to the extensions set forth in the Contract. This Resolution is not to be deemed or interpreted as obligating the Village Manager to execute the Extensions.

SECTION 5: EFFECTIVE DATE. This Resolution shall be in full force and effect from and after its passage and approval according to law.

ADOPTED this 17th day of February, 2026, pursuant to the following roll call vote:

AYES: _____
NAYS: _____
ABSENT: _____
ABSTAIN: _____

Signed

_____
Village President

Countersigned:

_____
Village Clerk

EXHIBIT A

CONTRACT

VILLAGE OF WINNETKA
REQUEST FOR BIDS
LANDSCAPE MAINTENANCE SERVICES BID

PACKAGE

NOTICE OF AWARD

CERTIFIED MAIL/RETURN RECEIPT REQUESTED OR PERSONAL DELIVERY

TO: _____
_____
_____
("Contractor")

FROM: Village of Winnetka
510 Green Bay Road
Winnetka, IL 60093
("Owner")

On _____, 20_, Owner found to be most favorable to the interests of Owner the Bidder's Proposal submitted by Contractor and dated _____, 20 _ , in which Contractor proposes to contract with Owner, in the form of the Contract included in the Bid Package to perform the following Work: (1) **Furnish and provide all necessary machinery, tools, apparatus, labor and other means of construction; and to do all of the work and disposal of debris, and furnish all of the materials specified in the contract.**; (2) to procure and furnish all permits, licenses and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in Attachment A to the Contract included in the Bid Package; (3) to procure and furnish all Bonds and all certificates and policies of insurance specified in the Bid Package; (4) to pay all applicable federal, state and local taxes; (5) to do all other things required of the Contractor by the Contract; and (6) to provide, perform and complete all of the foregoing in a proper and workmanlike manner and in full compliance with, and as required by or pursuant to, the Contract.

OWNER ACCORDINGLY AWARDS CONTRACTOR, EFFECTIVE AS OF THE DATE OF DELIVERY OF THIS NOTICE OF AWARD, THE CONTRACT FOR SAID WORK FOR THE LUMP SUM AND/OR UNIT PRICES, AS THE CASE MAY BE, SET FORTH IN THE BIDDER'S PROPOSAL.

The Contract will be finalized and executed no later than _____, 20_, at the above listed office of Owner. The Contract will be executed by Owner provided that all conditions precedent to finalization have been satisfied. Contractor must have complied with all conditions precedent to finalization set forth in Section 15 of the General Instructions to Bidders included in the Bid Package, on or before this date.

The failure or refusal to comply with the conditions precedent to finalization on or before the Finalization Date or to execute the Contract on the Finalization Date shall result, at Owner's option, in the imposition of liquidated damages and the annulment of this award, or in Owner's exercise of any or all equitable remedies Owner may have, all as more specifically set forth in Sections 8, 15, and 16 of the General Instructions to Bidders.

DATED: _____, 20___.

Village of _____

By: _____
Name

_____
Title

VILLAGE OF WINNETKA
CONTRACT FOR
LANDSCAPE MAINTENANCE SERVICES

Contract Number: ***[RFB #026-002]***

VILLAGE OF WINNETKA
CONTRACT FOR
LANDSCAPE MAINTENANCE SERVICES

Contract Number: ***[RFB #026-002]***

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Contractor's Certification

Attachment A: Specifications

VILLAGE OF WINNETKA
CONTRACT FOR
LANDSCAPE MAINTENANCE SERVICES

Contract Number: ***[RFB #026-002]***

In consideration of the mutual promises set forth below, the ***Village of Winnetka, 510 Green Bay Road, Winnetka, IL 60093***, an Illinois municipal corporation ("*Owner*"), an City Escape Garden & Design Center LLC, 3022 West Lake Street, Chicago, IL 60612 a limited liability company ("*Contractor*"), make this Contract as of ___, 20___, (the "*Effective Date*") and hereby agree as follows:

ARTICLE I: THE WORK

1.1 Performance of the Work

Contractor, at its sole cost and expense, must provide, perform, and complete all of the following, all of which is herein referred to as the "*Work*":

1. Labor, Equipment, Materials, and Supplies. Provide, perform, and complete, in the manner described and specified in this Contract, all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data, and other means and items necessary to accomplish the Project at the Work Site, both as defined in Attachment A.

2. Permits. Except as otherwise provided in Attachment A, procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary in connection therewith.

3. Bonds and Insurance. Procure and furnish all Bonds and all certificates and policies of insurance specified in this Contract.

4. Taxes. Pay all applicable federal, state, and local taxes.

5. Miscellaneous. Do all other things required of Contractor by this Contract, including without limitation arranging for utility and other services needed for the Work and for testing, including the installation of temporary utility lines, wiring, switches, fixtures, hoses, connections, and meters, and providing sufficient sanitary conveniences and shelters to accommodate all workers and all personnel of Owner engaged in the Work.

6. Quality. Provide, perform, and complete all of the foregoing in a proper and workmanlike manner, consistent with the highest standards of professional and construction practices and in full compliance with, and as required by or

pursuant to, this Contract, and with the greatest economy, efficiency, and expedition consistent therewith, with only new, undamaged and first quality equipment, materials, and supplies.

1.2 Commencement and Completion Dates

Contractor must commence the Work not later than the "*Commencement Date*" set forth on Attachment A and must diligently and continuously prosecute the Work at such a rate as will allow the Work to be fully provided, performed, and completed in full compliance with this Contract not later than the "*Completion Date*" set forth in Attachment A. The time of commencement, rate of progress, and time of completion are referred to in this Contract as the "*Contract Time*."

1.3 Required Submittals

A. Submittals Required. Contractor must submit to Owner all documents, data, and information specifically required to be submitted by Contractor under this Contract and must, in addition, submit to Owner all such Documents/Drawings, specifications, descriptive information, and engineering documents, data, and information as may be required, or as may be requested by Owner, to show the details of the Work, including a complete description of all equipment, materials, and supplies to be provided under this Contract ("*Required Submittals*"). Such details must include, but are not limited to, design data, structural and operating features, principal dimensions, space required or provided, clearances required or provided, type and brand of finish, and all similar matters, for all components of the Work.

B. Number and Format. Contractor must provide ***three*** complete sets for each Required Submittal. All Required Submittals, except Documents/Drawings, must be prepared on white 8-1/2" x 11".

C. Time of Submission and Owner's Review. All Required Submittals must be provided to Owner no later than the time, if any, specified in this Contract for their submission or, if no time for submission is specified, in sufficient time, in Owner's sole opinion, to permit Owner to review the same prior to the commencement of the part of the Work to which they relate and prior to the purchase of any equipment, materials, or supplies that they describe. Owner will have the right to require such corrections as may be necessary to make such submittals conform to this Contract. All such submittals will, after final processing and review with no exception noted by Owner, become a part of this Contract. No Work related to any submittal may be performed by Contractor until Owner has completed review of such submittal with no exception noted. Owner's review and stamping of any Required Submittal will be for the sole purpose of examining the general management, design, and details of the proposed Work, does not relieve Contractor of the entire responsibility for the performance of the Work in full compliance with, and as required by or pursuant to this Contract, and may not be regarded as any assumption of risk or liability by Owner.

D. Responsibility for Delay. Contractor is responsible for any delay in the Work due to delay in providing Required Submittals conforming to this Contract.

1.4 Review and Interpretation of Contract Provisions

Contractor represents and warrants that it has carefully reviewed this Contract, including all of its Attachments, and the Documents/Documents/Drawings identified in Attachment A, all of which are by this reference incorporated into and made a part of this Contract. Contractor must, at no increase in the Contract Price, provide workmanship, equipment, materials, and supplies that fully conform to this Contract. Whenever any equipment, materials or supplies are specified or described in this Contract by using the name or other identifying feature of a proprietary product or the name or other identifying feature of a particular manufacturer or vendor, the specific item mentioned is understood as establishing the type, function and quality desired. Other manufacturers' or vendors' products may be accepted, provided that the products proposed are equivalent in substance and function to those named as determined by Owner in its sole and absolute discretion.

Contractor must promptly notify Owner of any discrepancy, error, omission, ambiguity, or conflict among any of the provisions of this Contract before proceeding with any Work affected thereby. If Contractor fails to give such notice to Owner, then the subsequent decision of Owner as to which provision of this Contract governs is final, and any corrective work required does not entitle Contractor to any damages, to any compensation in excess of the Contract Price, or to any delay or extension of the Contract Time.

When the equipment, materials, or supplies furnished by Contractor cannot be installed as specified in this Contract, Contractor must, without any increase in the Contract Price, make all modifications required to properly install the equipment, materials, or supplies. Any such modification is subject to the prior review and consent of Owner.

1.5 Conditions at the Work Site; Record Documents/Drawings

Contractor represents and warrants that it has had a sufficient opportunity to conduct a thorough investigation of the Work Site and the surrounding area and has completed such investigation to its satisfaction. Contractor will have no claim for damages, for compensation in excess of the Contract Price, or for a delay or extension of the Contract Time based upon conditions found at, or in the vicinity of, the Work Site. When information pertaining to subsurface, underground or other concealed conditions, soils analysis, borings, test pits, utility locations or conditions, buried structures, condition of existing structures, and other investigations is or has been provided by Owner, or is or has been otherwise made available to Contractor by Owner, such information is or has been provided or made available solely for the convenience of Contractor and is not part of this Contract. Owner assumes no responsibility whatever in respect to the sufficiency or accuracy of such information, and there is no guaranty or warranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the Work or the Work Site, or that the conditions indicated are representative of those existing at any particular location, or that the conditions indicated may not change, or that unanticipated conditions may not be present.

Contractor is solely responsible for locating all existing underground installations by prospecting no later than two workdays prior to any scheduled excavation or trenching, whichever is earlier. Contractor must check all dimensions, elevations, and quantities indicated in this Contract within the same time period as set forth above for prospecting underground installations. Contractor must lay out the Work in accordance with this Contract and must establish and maintain such locations, lines and levels. Wherever pre-existing work is encountered, Contractor must verify and be responsible for dimensions and location of such pre-existing work. Contractor must notify Owner of any discrepancy between the dimensions, elevations and quantities indicated in this Contract and the conditions of the Work Site or any other errors, omissions or discrepancies which Contract may discover during such inspections. Full instructions will be furnished by Owner should such error, omission, or discrepancy be discovered, and Contractor must carry out such instructions as if originally specified and without any increase in Contract Price.

Before Final Acceptance of the Work, Contractor must submit to Owner two sets of Documents/Drawings of Record, unless a greater number is specified elsewhere in this Contract, indicating al field deviations from Attachment A.

1.6 Technical Ability to Perform

Contractor represents and warrants that it is sufficiently experienced and competent, and has the necessary capital, facilities, plant, organization, and staff, to provide, perform and complete the Work in full compliance with, and as required by or pursuant to, this Contract.

1.7 Financial Ability to Perform

Contractor represents and warrants that it is financially solvent, and Contractor has the financial resources necessary to provide, perform and complete the Work in full compliance with, and as required by or pursuant to, this Contract.

1.8 Time

Contractor represents and warrants that it is ready, willing, able and prepared to begin the Work on the Commencement Date and that the Contract Time is sufficient time to permit completion of the Work in full compliance with, and as required by or pursuant to, this Contract for the Contract Price, all with due regard to all natural and man-made conditions that may affect the Work or the Work Site and all difficulties, hindrances, and delays that may be incident to the Work.

1.9 Safety at the Work Site

Contractor is solely and completely responsible for providing and maintaining safe conditions at the Work Site, including the safety of all persons and property during performance of the Work. This requirement applies continuously and is not limited to normal working hours. Contractor must take all safety precautions as necessary to comply with all applicable laws and to prevent injury to persons and damage to property.

Contractor must conduct all of its operations without interruption or interference with vehicular and pedestrian traffic on public and private rights-of-way, unless it has obtained permits therefor from the proper authorities. If any public or private right-of-way are rendered unsafe by Contractor's operations, Contractor must make such repairs or provide such temporary ways or guards as are acceptable to the proper authorities.

1.10 Cleanliness of the Work Site and Environs

Contractor must keep the Work Site and adjacent areas clean at all times during performance of the Work and must, upon completion of the Work, leave the Work Site and adjacent areas in a clean and orderly condition.

1.11 Damage to the Work, the Work Site, and Other Property

The Work and everything pertaining thereto is provided, performed, completed, and maintained at the sole risk and cost of Contractor from the Commencement Date until Final Payment. Contractor is fully responsible for the protection of all public and private property and all persons. Without limiting the foregoing, Contractor must, at its own cost and expense, provide all permanent and temporary shoring, anchoring and bracing required by the nature of the Work in order to make all parts absolutely stable and rigid, even when such shoring, anchoring and bracing is not explicitly specified, and support and protect all buildings, bridges, roadways, conduits, wires, water pipes, gas pipes, sewers, pavements, curbs, sidewalks, fixtures and landscaping of all kinds and all other public or private property that may be encountered or endangered in providing, performing and completing the Work. Contractor will have no claim against Owner because of any damage or loss to the Work or to Contractor's equipment, materials, or supplies from any cause whatsoever, including damage or loss due to simultaneous work by others. Contractor must, promptly and without charge to Owner, repair or replace, to the satisfaction of Owner, any damage done to, and any loss suffered by, the Work and any damage done to, and any loss suffered by, the Work Site or other property as a result of the Work. Notwithstanding any other provision of this Contract, Contractor's obligations under this Section exist without regard to, and may not be construed to be waived by, the availability or unavailability of any insurance, either of Owner or Contractor, to indemnify, hold harmless, or reimburse Contractor for the cost of any repair or replacement work required by this Section.

1.12 Subcontractors and Suppliers

A. Approval and Use of Subcontractors and Suppliers. Contractor must perform the Work with its own personnel and under the management, supervision, and control of its own organization unless otherwise approved by Owner in writing. All subcontractors, suppliers, and subcontracts used by Contractor must be acceptable to, and approved in advance by, Owner. Owner's approval of any subcontractor, supplier, and subcontract does not relieve Contractor of full responsibility and liability for the provision, performance, and completion of the Work in full compliance with, and as required by or pursuant to, this Contract. All Work performed under any subcontract is subject to all of the provisions of this Contract in the same manner as if performed by employees of Contractor. Every reference in this Contract to

"*Contractor*" is deemed also to refer to all subcontractors and suppliers of Contractor. Every subcontract must include a provision binding the subcontractor or supplier to all provisions of this Contract.

B. Removal of Subcontractors and Suppliers. If any subcontractor or supplier fails to perform the part of the Work undertaken by it in a manner satisfactory to Owner, Contractor must immediately upon notice from Owner terminate such subcontractor or supplier. Contractor will have no claim for damages, for compensation in excess of the Contract Price, or for a delay or extension of the Contract Time as a result of any such termination.

1.13 Simultaneous Work By Others

Owner has the right to perform or have performed such other work as Owner may desire in, about, or near the Work Site during the performance of the Work by Contractor. Contractor must make every reasonable effort to perform the Work in such manner as to enable both the Work and such other work to be completed without hindrance or interference from each other. Contractor must afford Owner and other contractors reasonable opportunity for the execution of such other work and must properly coordinate the Work with such other work.

1.14 Occupancy Prior to Final Payment

Owner will have the right, at its election, to occupy, use, or place in service any part of the Work prior to Final Payment. Such occupancy, use, or placement in service must be conducted in such manner as not to damage any of the Work or to unreasonably interfere with the progress of the Work. No such occupancy, use, or placement in service may be construed as an acceptance of any of the Work or a release or satisfaction of Contractor's duty to insure and protect the Work, nor may it, unless conducted in an unreasonable manner, be considered as an interference with Contractor's provision, performance, or completion of the Work.

1.15 Owner's Right to Terminate or Suspend Work for Convenience

A. Termination or Suspension for Convenience. Owner has the right, for its convenience, to terminate or suspend the Work in whole or in part at any time by written notice to Contractor. Every such notice must state the extent and effective date of such termination or suspension. On such effective date, Contractor must, as and to the extent directed, stop Work under this Contract, cease all placement of further orders or subcontracts, terminate or suspend Work under existing orders and subcontracts, cancel any outstanding orders or subcontracts that may be cancelled, and take any action necessary to protect any property in its possession in which Owner has or may acquire any interest and to dispose of such property in such manner as may be directed by Owner.

B. Payment for Completed Work. In the event of any termination pursuant to Subsection 1.15A above, Owner must pay Contractor (1) such direct costs, excluding overhead, as Contractor has paid or incurred for all Work done in compliance with, and as required by or pursuant to, this Contract up to the effective date of termination together with ten percent of such costs for overhead and profit; and (2) such other costs pertaining to the Work, exclusive

of overhead and profit, as Contractor may have reasonably and necessarily incurred as the result of such termination. Any such payment may be offset by any prior payment or payments and is subject to Owner's rights to withhold and deduct as provided in this Contract.

ARTICLE II: CHANGES AND DELAYS

2.1 Changes

Owner has the right, by written order executed by Owner, to make changes in the Contract, the Work, the Work Site, and the Contract Time ("*Change Order*"). If any Change Order causes an increase or decrease in the amount of the Work, an equitable adjustment in the Contract Price or Contract Time may be made. All claims by Contractor for an equitable adjustment in either the Contract Price or the Contract Time must be made within two business days following receipt of such Change Order, and may, if not made prior to such time, be conclusively deemed to have been waived. No decrease in the amount of the Work caused by any Change Order will entitle Contractor to make any claim for damages, anticipated profits, or other compensation.

2.2 Delays

A. Extensions for Unavoidable Delays. For any delay that may result from causes that could not be avoided or controlled by Contractor, Contractor must, upon timely written application, be entitled to issuance of a Change Order providing for an extension of the Contract Time for a period of time equal to the delay resulting from such unavoidable cause. No extension of the Contract Time will be allowed for any other delay in completion of the Work.

B. No Compensation for Delays. No payment, compensation, damages, or adjustment of any kind, other than the extension of the Contract Time provided in Subsection 2.2A above, may be made to, or claimed by, Contractor because of hindrances or delays from any cause in the commencement, prosecution, or completion of the Work, whether caused by Owner or any other party and whether avoidable or unavoidable.

ARTICLE III: CONTRACTOR'S RESPONSIBILITY FOR DEFECTIVE WORK

3.1 Inspection; Testing; Correction of Defects

A. Inspection. Until Final Payment, all parts of the Work are subject to inspection and testing by Owner or its designated representatives. Contractor must furnish, at its own expense, all reasonable access, assistance, and facilities required by Owner for such inspection and testing.

B. Re-Inspection. Re-inspection and re-testing of any Work may be ordered by Owner at any time, and, if so ordered, any covered or closed Work must be uncovered or opened by Contractor. If the Work is found to be in full compliance with this Contract, then Owner

must pay the cost of uncovering, opening, re-inspecting, or re-testing, as the case may be. If such Work is not in full compliance with this Contract, then Contractor must pay such cost.

C. Correction. Until Final Payment, Contractor must, promptly and without charge, repair, correct, or replace all or any part of the Work that is defective, damaged, flawed, or unsuitable or that in any way fails to conform strictly to the requirements of this Contract.

3.2 Warranty of Work

A. Scope of Warranty. Contractor warrants that the Work and all of its components will be free from defects and flaws in design, workmanship, and materials; must strictly conform to the requirements of this Contract; and will be fit, sufficient, and suitable for the purposes expressed in, or reasonably inferred from, this Contract. The warranty herein expressed is in addition to any other warranties expressed in this Contract, or expressed or implied by law, which are hereby reserved unto Owner.

B. Repairs; Extension of Warranty. Contractor, promptly and without charge, must correct any failure to fulfill the above warranty that may be discovered or develop at any time within one year after Final Payment or such longer period as may be prescribed in Attachment A to this Contract or by law. The above warranty may be extended automatically to cover all repaired and replacement parts and labor provided or performed under such warranty and Contractor's obligation to correct Work may be extended for a period of one year from the date of such repair or replacement. The time period established in this Subsection 3.2B relates only to the specific obligation of Contractor to correct Work and may not be construed to establish a period of limitation with respect to other obligations that Contractor has under this Contract.

C. Subcontractor and Supplier Warranties. Whenever Attachment A requires a subcontractor or supplier to provide a guaranty or warranty, Contractor is solely responsible for obtaining said guaranty or warranty in form satisfactory to Owner and assigning said warranty or guaranty to Owner. Acceptance of any assigned warranties or guaranties by Owner is a precondition to Final Payment and does not relieve Contractor of any of its guaranty or warranty obligations under this Contract.

3.3 Owner's Right to Correct

If, within two business days after Owner gives Contractor notice of any defect, damage, flaw, unsuitability, nonconformity, or failure to meet warranty subject to correction by Contractor pursuant to Section 3.1 or Section 3.2 of this Contract, Contractor neglects to make, or undertake with due diligence to make, the necessary corrections, then Owner is entitled to make, either with its own forces or with contract forces, the corrections and to recover from Contractor all resulting costs, expenses, losses, or damages, including attorneys' fees and administrative expenses.

ARTICLE IV: FINANCIAL ASSURANCES

4.1 Bonds

Contemporaneous with Contractor's execution of this Contract, Contractor must provide a Performance Bond and a Labor and Material Payment Bond, on forms provided by, or otherwise acceptable to, Owner, from a surety company licensed to do business in the State of Illinois with a general rating of A and a financial size category of Class X or better in Best's Insurance Guide, each in the penal sum of the Contract Price ("*Bonds*"). Contractor, at all times while providing, performing, or completing the Work, including, without limitation, at all times while correcting any failure to meet warranty pursuant to Section 3.2 of this Contract, must maintain and keep in force, at Contractor's expense, the Bonds required hereunder.

4.2 Insurance

Contemporaneous with Contractor's execution of this Contract, Contractor must provide certificates and policies of insurance evidencing the minimum insurance coverages and limits set forth below. For good cause shown, Owner may extend the time for submission of the required policies of insurance upon such terms, and with such assurances of complete and prompt performance, as Owner may impose in the exercise of its sole discretion. Such policies must be in a form, and from companies, acceptable to Owner. Such insurance must provide that no change, modification in, or cancellation of any insurance becomes effective until the expiration of 30 days after written notice thereof has have been given by the insurance company to Owner. Contractor must, at all times while providing, performing, or completing the Work, including, without limitation, at all times while correcting any failure to meet warranty pursuant to Section 3.2 of this Contract, maintain and keep in force, at Contractor's expense, the minimum insurance coverages and limits set forth below.

This table is intended as a general guide. In the event that the activities to be performed don't fall into one of the following categories, the Village may require more or less coverage than indicated below.	Total Limit of Liability (In Millions) Per Project	Worker's Compensation and Employers Liability	Comm'l General Liability	Comprehensive Form	Premises/Operations	Underground Explosion & Collapse	Produces/Completed Operations	Contractual	Independent Contractors	Broad Form Property Damage	Auto Liability	Any Auto	Garage Liability	Aircraft Liability
Landscaping – Lawn maintenance, gardening, etc.	2	X	X	X			X	X	X		X	X		
The contractor or service provider shall indemnify and hold harmless the Village, its agents, officials and employees against all injuries, deaths, claims, liabilities, costs and expenses, etc., which may accrue against the Village in consequence of the granting of this agreement.														

4.3 Indemnification

Contractor hereby agrees to and will indemnify, save harmless, and defend Owner and all of it elected officials, officers, employees, attorneys, agents, and representatives against any and all lawsuits, claims, demands, damages, liabilities, losses, and expenses, including attorneys' fees and administrative expenses, that may arise, or be alleged to have arisen, out of or in connection with Contractor's performance of, or failure to perform, the Work or any part thereof, whether or not due or claimed to be due in whole or in part to the active, passive, or concurrent negligence or fault of Contractor, except to the extent caused solely by the negligence of Owner.

ARTICLE V: PAYMENT

5.1 Contract Price

Owner must pay to Contractor, in accordance with and subject to the terms and conditions set forth in this Article V and Attachment A, and Contractor must accept in full satisfaction for providing, performing, and completing the Work, the amount or amounts set forth in Attachment A (the "*Contract Price*"), subject to any additions, deductions, or withholdings provided for in this Contract.

5.2 Taxes and Benefits

Owner is exempt from and will not be responsible to pay, or reimburse Contractor for, any state or local sales, use, or excise taxes. The Contract Price includes all other applicable federal, state, and local taxes of every kind and nature applicable to the Work as well as all taxes, contributions, and premiums for unemployment insurance, old age or retirement benefits, pensions, annuities, or other similar benefits. All claim or right to claim additional compensation by reason of the payment of any such tax, contribution, or premium is hereby waived and released by Contractor.

5.3 Progress Payments

A. Payment in Installments. The Contract Price must be paid in monthly installments in the manner set forth in Attachment A ("*Progress Payments*").

B. Pay Requests. Contractor must, as a condition precedent to its right to receive each Progress Payment, submit to Owner a pay request in the form provided by Owner ("*Pay Request*"). The first Pay Request must be submitted not sooner than 30 days following commencement of the Work. Owner may, by written notice to Contractor, designate a specific day of each month on or before which Pay Requests must be submitted. Each Pay Request must include (a) Contractor's certification of the value of, and partial or final waivers of lien covering, all Work for which payment is then requested and (b) Contractor's certification that all prior Progress Payments have been properly applied to the payment or reimbursement of the costs with respect to which they were paid.

C. Work Entire. This Contract and the Work are entire and the Work as a whole is of the essence of this Contract. Notwithstanding any other provision of this Contract, each and every part of this Contract and of the Work are interdependent and common to one another and to Owner's obligation to pay all or any part of the Contract Price or any other consideration for the Work. Any and all Progress Payments made pursuant to this Article are provided merely for the convenience of Contractor and for no other purpose.

5.4 Final Acceptance and Final Payment

A. Notice of Completion. When the Work has been completed and is ready in all respects for acceptance by Owner, Contractor must notify Owner and request a final inspection ("*Notice of Completion*"). Contractor's Notice of Completion must be given sufficiently in advance of the Completion Date to allow for scheduling of the final inspection and for completion or correction before the Completion Date of any items identified by such inspection as being defective, damaged, flawed, unsuitable, nonconforming, incomplete, or otherwise not in full compliance with, or as required by or pursuant to, this Contract ("*Punch List Work*").

B. Punch List and Final Acceptance. The Work may be finally accepted when, and only when, the whole and all parts thereof have been completed to the satisfaction of Owner in full compliance with, and as required by or pursuant to, this Contract. Upon receipt of Contractor's Notice of Completion, Owner must make a review of the Work and notify Contractor in writing of all Punch List Work, if any, to be completed or corrected. Following Contractor's completion or correction of all Punch List Work, Owner must make another review of the Work and prepare and deliver to Contractor either a written notice of additional Punch List Work to be completed or corrected or a written notice of final acceptance of the Work ("*Final Acceptance*").

C. Final Payment. As soon as practicable after Final Acceptance, Contractor must submit to Owner a properly completed final Pay Request in the form provided by Owner ("*Final Pay Request*"). Owner must pay to Contractor the balance of the Contract Price, after deducting therefrom all charges against Contractor as provided for in this Contract ("*Final Payment*"). Final Payment must be made not later than 60 days after Owner approves the Final Pay Request. The acceptance by Contractor of Final Payment will operate as a full and complete release of Owner of and from any and all lawsuits, claims, demands, damages, liabilities, losses, and expenses of, by, or to Contractor for anything done, furnished for, arising out of, relating to, or in connection with the Work or for or on account of any act or neglect of Owner arising out of, relating to, or in connection with the Work.

5.5 Liens

A. Title. Nothing in this Contract may be construed as vesting in Contractor any right of property in any equipment, materials, supplies, and other items provided under this Contract after they have been installed in, incorporated into, attached to, or affixed to, the Work or the Work Site. All such equipment, materials, supplies, and other items will, upon being so installed, incorporated, attached or affixed, become the property of Owner, but such title will

not release Contractor from its duty to insure and protect the Work in accordance with the requirements of this Contract.

B. Waivers of Lien. Contractor must, from time to time at Owner's request and in any event prior to Final Payment, furnish to Owner such receipts, releases, affidavits, certificates, and other evidence as may be necessary to establish, to the reasonable satisfaction of Owner, that no lien against the Work or the public funds held by Owner exists in favor of any person whatsoever for or by reason of any equipment, material, supplies, or other item furnished, labor performed, or other thing done in connection with the Work or this Contract ("*Lien*") and that no right to file any Lien exists in favor of any person whatsoever.

C. Removal of Liens. If at any time any notice of any Lien is filed, then Contractor must, promptly and without charge, discharge, remove, or otherwise dispose of such Lien. Until such discharge, removal, or disposition, Owner will have the right to retain from any money payable hereunder an amount that Owner, in its sole judgment, deems necessary to satisfy such Lien and to pay the costs and expenses, including attorneys' fees and administrative expenses, of any actions brought in connection therewith or by reason thereof.

D. Protection of Owner Only. This Section does not operate to relieve Contractor's surety or sureties from any of their obligations under the Bonds, nor may it be deemed to vest any right, interest, or entitlement in any subcontractor or supplier. Owner's retention of funds pursuant to this Section is deemed solely for the protection of its own interests pending removal of such Liens by Contractor, and Owner will have no obligation to apply such funds to such removal but may, nevertheless, do so where Owner's interests would thereby be served.

5.6 Deductions

A. Owner's Right to Withhold. Notwithstanding any other provision of this Contract and without prejudice to any of Owner's other rights or remedies, Owner will have the right at any time or times, whether before or after approval of any Pay Request, to deduct and withhold from any Progress or Final Payment that may be or become due under this Contract such amount as may reasonably appear necessary to compensate Owner for any actual or prospective loss due to: (1) Work that is defective, damaged, flawed, unsuitable, nonconforming, or incomplete; (2) damage for which Contractor is liable under this Contract; (3) state or local sales, use, or excise taxes from which Owner is exempt; (4) Liens or claims of Lien regardless of merit; (5) claims of subcontractors, suppliers, or other persons regardless of merit; (6) delay in the progress or completion of the Work; (7) inability of Contractor to complete the Work; (8) failure of Contractor to properly complete or document any Pay Request; (9) any other failure of Contractor to perform any of its obligations under this Contract; or (10) the cost to Owner, including attorneys' fees and administrative costs, of correcting any of the aforesaid matters or exercising any one or more of Owner's remedies set forth in Section 6.3 of this Contract.

B. Use of Withheld Funds. Owner is entitled to retain any and all amounts withheld pursuant to Subsection 5.6A above until Contractor has either performed the obligations in question or furnished security for such performance satisfactory to Owner. Owner is entitled

to apply any money withheld or any other money due Contractor under this Contract to reimburse itself for any and all costs, expenses, losses, damages, liabilities, suits, judgments, awards, attorneys' fees and administrative expenses incurred, suffered, or sustained by Owner and chargeable to Contractor under this Contract.

ARTICLE VI: DISPUTES AND REMEDIES

6.1 Dispute Resolution Procedure

A. Notice of Disputes and Objections. If Contractor disputes or objects to any requirement, direction, instruction, interpretation, determination, or decision of Owner, Contractor may notify Owner in writing of its dispute or objection and of the amount of any equitable adjustment to the Contract Price or Contract Time to which Contractor claims it will be entitled as a result thereof; provided, however, that Contractor must, nevertheless, proceed without delay to perform the Work as required, directed, instructed, interpreted, determined, or decided by Owner, without regard to such dispute or objection. Unless Contractor so notifies Owner within two business days after receipt of such requirement, direction, instruction, interpretation, determination, or decision, Contractor is conclusively deemed to have waived all such disputes or objections and all claims based thereon.

B. Negotiation of Disputes and Objections. To avoid and settle without litigation any such dispute or objection, Owner and Contractor agree to engage in good faith negotiations. Within three business days after Owner's receipt of Contractor's written notice of dispute or objection, a conference between Owner and Contractor will be held to resolve the dispute. Within three business days after the end of the conference, Owner must render its final decision, in writing, to Contractor. If Contractor objects to the final decision of Owner, then it must, within three business days, give Owner notice thereof and, in such notice, must state its final demand for settlement of the dispute. Unless Contractor so notifies Owner, Contractor will be conclusively deemed (1) to have agreed to and accepted Owner's final decision and (2) to have waived all claims based on such final decision.

6.2 Contractor's Remedies

If Owner fails or refuses to satisfy a final demand made by Contractor pursuant to Section 6.1 of this Contract, or to otherwise resolve the dispute which is the subject of such demand to the satisfaction of Contractor, within 10 days after receipt of such demand, then Contractor will be entitled to pursue such remedies, not inconsistent with the provisions of this Contract, as it may have in law or equity.

6.3 Owner's Remedies

If it should appear at any time prior to Final Payment that Contractor has failed or refused to prosecute, or has delayed in the prosecution of, the Work with diligence at a rate that assures completion of the Work in full compliance with the requirements of this Contract on or before the Completion Date, or has attempted to assign this Contract or Contractor's rights under this Contract, either in whole or in part, or has falsely made any representation or

warranty in this Contract, or has otherwise failed, refused, or delayed to perform or satisfy any other requirement of this Contract or has failed to pay its debts as they come due ("*Event of Default*"), and has failed to cure any such Event of Default within five business days after Contractor's receipt of written notice of such Event of Default, then Owner will have the right, at its election and without prejudice to any other remedies provided by law or equity, to pursue any one or more of the following remedies:

1. Owner may require Contractor, within such reasonable time as may be fixed by Owner, to complete or correct all or any part of the Work that is defective, damaged, flawed, unsuitable, nonconforming, or incomplete; to remove from the Work Site any such Work; to accelerate all or any part of the Work; and to take any or all other action necessary to bring Contractor and the Work into strict compliance with this Contract.

2. Owner may perform or have performed all Work necessary for the accomplishment of the results stated in Paragraph 1 above and withhold or recover from Contractor all the cost and expense, including attorneys' fees and administrative costs, incurred by Owner in connection therewith.

3. Owner may accept the defective, damaged, flawed, unsuitable, nonconforming, incomplete, or dilatory Work or part thereof and make an equitable reduction in the Contract Price.

4. Owner may terminate this Contract without liability for further payment of amounts due or to become due under this Contract.

5. Owner may, without terminating this Contract, terminate Contractor's rights under this Contract and, for the purpose of completing or correcting the Work, evict Contractor and take possession of all equipment, materials, supplies, tools, appliances, plans, specifications, schedules, manuals, Documents/Drawings, and other papers relating to the Work, whether at the Work Site or elsewhere, and either complete or correct the Work with its own forces or contracted forces, all at Contractor's expense.

6. Upon any termination of this Contract or of Contractor's rights under this Contract, and at Owner's option exercised in writing, any or all subcontracts and supplier contracts of Contractor will be deemed to be assigned to Owner without any further action being required, but Owner may not thereby assume any obligation for payments due under such subcontracts and supplier contracts for any Work provided or performed prior to such assignment.

7. Owner may withhold from any Progress Payment or Final Payment, whether or not previously approved, or may recover from Contractor, any and all costs, including attorneys' fees and administrative expenses, incurred by Owner as the result of any Event of Default or as a result of actions taken by Owner in response to any Event of Default.

8. Owner may recover any damages suffered by Owner.

6.4 Owner's Additional Remedy for Delay

If the Work is not completed by Contractor, in full compliance with, and as required by or pursuant to, this Contract, within the Contract Time as such time may be extended by Change Order, then Owner may invoke its remedies under Section 6.3 of this Contract or may, in the exercise of its sole and absolute discretion, permit Contractor to complete the Work but charge to Contractor, and deduct from any Progress or Final Payments, whether or not previously approved, administrative expenses and costs for each day completion of the Work is delayed beyond the Completion Date, computed on the basis of the "*Per Diem Administrative Charge*" set forth in Attachment A, as well as any additional damages caused by such delay.

6.5 Terminations and Suspensions Deemed for Convenience

Any termination or suspension of Contractor's rights under this Contract for an alleged default that is ultimately held unjustified will automatically be deemed to be a termination or suspension for the convenience of Owner under Section 1.15 of this Contract.

ARTICLE VII: LEGAL RELATIONSHIPS AND REQUIREMENTS

7.1 Binding Effect

This Contract is binding on Owner and Contractor and on their respective heirs, executors, administrators, personal representatives, and permitted successors and assigns. Every reference in this Contract to a party is deemed to be a reference to the authorized officers, employees, agents, and representatives of such party.

7.2 Relationship of the Parties

Contractor will act as an independent Contractor in providing and performing the Work. Nothing in, nor done pursuant to, this Contract may be construed (1) to create the relationship of principal and agent, partners, or joint venturers between Owner and Contractor or (2) except as provided in Paragraph 6.3(6) above, to create any relationship between Owner and any subcontractor or supplier of Contractor.

7.3 No Collusion/Prohibited Interests

Contractor hereby represents that the only persons, firms, or corporations interested in this Contract as principals are those disclosed to Owner prior to the execution of this Contract, and that this Contract is made without collusion with any other person, firm, or corporation. If at any time it is found that Contractor has, in procuring this Contract, colluded with any other person, firm, or corporation, then Contractor will be liable to Owner for all loss or damage that Owner may suffer thereby, and this Contract will, at Owner's option, be null and void.

Contractor hereby represents and warrants that neither Contractor nor any person affiliated with Contractor or that has an economic interest in Contractor or that has or will have an interest in the Work or will participate, in any manner whatsoever, in the Work is acting, directly or indirectly, for or on behalf of any person, group, entity or nation named by the United States Treasury Department as a Specially Designated National and Blocked Person, or for or on behalf of any person, group, entity or nation designated in Presidential Executive Order 13224 as a person who commits, threatens to commit, or supports terrorism, and neither Contractor nor any person affiliated with Contractor or that has an economic interest in Contractor or that has or will have an interest in the Work or will participate, in any manner whatsoever, in the Work is, directly or indirectly, engaged in, or facilitating, the Work on behalf of any such person, group, entity or nation.

7.4 Assignment

Contractor may not (1) assign this Contract in whole or in part, (2) assign any of Contractor's rights or obligations under this Contract, or (3) assign any payment due or to become due under this Contract without the prior express written approval of Owner, which approval may be withheld in the sole and unfettered discretion of Owner; provided, however, that Owner's prior written approval will not be required for assignments of accounts, as defined in the Illinois Commercial Code, if to do so would violate Section 9-318 of the Illinois Commercial Code, 810 ILCS 5/9-318. Owner may assign this Contract, in whole or in part, or any or all of its rights or obligations under this Contract, without the consent of Contractor.

7.5 Confidential Information

All information supplied by Owner to Contractor for or in connection with this Contract or the Work must be held confidential by Contractor and may not, without the prior express written consent of Owner, be used for any purpose other than performance of the Work.

7.6 No Waiver

No examination, inspection, investigation, test, measurement, review, determination, decision, certificate, or approval by Owner, nor any order by Owner for the payment of money, nor any payment for, or use, occupancy, possession, or acceptance of, the whole or any part of the Work by Owner, nor any extension of time granted by Owner, nor any delay by Owner in exercising any right under this Contract, nor any other act or omission of Owner may constitute or be deemed to be an acceptance of any defective, damaged, flawed, unsuitable, nonconforming or incomplete Work, equipment, materials, or supplies, nor operate to waive or otherwise diminish the effect of any warranty or representation made by Contractor; or of any requirement or provision of this Contract; or of any remedy, power, or right of Owner.

7.7 No Third Party Beneficiaries

No claim as a third party beneficiary under this Contract by any person, firm, or corporation other than Contractor may be made or be valid against Owner.

7.8 Notices

All notices required or permitted to be given under this Contract must be in writing and are deemed received by the addressee thereof when delivered in person on a business day at the address set forth below or on the third business day after being deposited in any main or branch United States post office, for delivery at the address set forth below by properly addressed, postage prepaid, certified or registered mail, return receipt requested.

Notices and communications to Owner must be addressed to, and delivered at, the following address:

	with a copy to:
Village of Winnetka	Elrod Friedman, LLP
510 Green Bay Road	325 North LaSalle Street, Suite 450
Winnetka, IL 60093	Chicago, Illinois 60654
Attention: Public Works Director	Attention: Peter M. Friedman

Notices and communications to Contractor must be addressed to, and delivered at, the following address:

	with a copy to:
City Escape Garden & Design Center, LLC	_____
3022 West Lake Street	_____
Chicago, IL 60612	_____

The foregoing may not be deemed to preclude the use of other non-oral means of notification or to invalidate any notice properly given by any such other non-oral means.

By notice complying with the requirements of this Section, Owner and Contractor each have the right to change the address or addressee or both for all future notices to it, but no notice of a change of address is effective until actually received.

7.9 Governing Laws

This Contract and the rights of Owner and Contractor under this Contract will be interpreted according to the internal laws, but not the conflict of laws rules, of the State of Illinois.

7.10 Changes in Laws

Unless otherwise explicitly provided in this Contract, any reference to laws includes such laws as they may be amended or modified from time to time.

7.11 Compliance with Laws

A. Compliance Required. Contractor must give all notices, pay all fees, and take all other action that may be necessary to ensure that the Work is provided, performed, and

completed in accordance with all required governmental permits, licenses or other approvals and authorizations that may be required in connection with providing, performing, and completing the Work, and with all applicable statutes, ordinances, rules, and regulations, including without limitation the Illinois Prevailing Wage Act, 820 ILCS 130/0.01 et seq. (see Subsection C of this Section) (a copy of Owner's ordinance ascertaining the prevailing rate of wages, in effect as of the date of this Contract, has been attached as an Appendix to this Contract; if the Illinois Department of Labor revises the prevailing rate of hourly wages to be paid, the revised rate applies to this Contract); any other applicable prevailing wage laws; the Fair Labor Standards Act; any statutes regarding qualification to do business; any statutes requiring preference to laborers of specified classes; the Illinois Steel Products Procurement Act, 30 ILCS 565/1 et seq.; any statutes prohibiting discrimination because of, or requiring affirmative action based on, race, creed, color, national origin, age, sex, or other prohibited classification, including, without limitation, the Americans with Disabilities Act of 1990, 42 U.S.C. §§ 12101 et seq., the Illinois Human Rights Act, 775 ILCS 5/1-101 et seq., and the Public Works Discrimination Act, 775 ILCS 10/0.01 et seq.; and any statutes regarding safety or the performance of the Work, including the Illinois Underground Utility Facilities Damage Prevention Act, 220 ILCS 50/1 et seq., and the Occupational Safety and Health Act of 1970, 29 U.S.C. §§ 651 et seq.

B. Liability for Fines, Penalties. Contractor is solely liable for any fines or civil penalties that are imposed by any governmental or quasi-governmental agency or body that may arise, or be alleged to have arisen, out of or in connection with Contractor's, or its subcontractors' or suppliers', performance of, or failure to perform, the Work or any part thereof.

C. Prevailing Wage Act. Contractor and each subcontractor, in order to comply with the Prevailing Wage Act, 820 ILCS 130/0.01 et seq. (the "*Act*"), must submit to the Village a certified payroll on a monthly basis, in accordance with Section 5 of the Act. The certified payroll must consist of a complete copy of those records required to be made and kept by the Act. The certified payroll must be accompanied by a statement signed by the Contractor or subcontractor that certifies that (1) such records are true and accurate, (2) the hourly rate paid is not less than the general prevailing rate of hourly wages required by the Act, and (3) the Contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class B misdemeanor. Contractor may rely on the certification of a subcontractor, provided that Contractor does not knowingly rely on a subcontractor's false certification. On two business days' notice, Contractor and each subcontractor must make available for inspection the records required to be made and kept by the Act (i) to the Village and its officers and agents and to the Director of the Illinois Department of Labor and his or her deputies and agents and (ii) at all reasonable hours at a location within the State.

D. Required Provisions Deemed Inserted. Every provision of law required by law to be inserted into this Contract is deemed to be inserted herein.

7.12 Compliance with Patents

A. Assumption of Costs, Royalties, and Fees. Contractor will pay or cause to be paid all costs, royalties, and fees arising from the use on, or the incorporation into, the Work, of patented equipment, materials, supplies, tools, appliances, devices, processes, or inventions.

B. Effect of Contractor Being Enjoined. Should Contractor be enjoined from furnishing or using any equipment, materials, supplies, tools, appliances, devices, processes, or inventions supplied or required to be supplied or used under this Contract, Contractor must promptly offer substitute equipment, materials, supplies, tools, appliances, devices, processes, or inventions in lieu thereof, of equal efficiency, quality, suitability, and market value, for review by Owner. If Owner should disapprove the offered substitutes and should elect, in lieu of a substitution, to have supplied, and to retain and use, any such equipment, materials, supplies, tools, appliances, devices, processes, or inventions as may by this Contract be required to be supplied, Contractor must pay such royalties and secure such valid licenses as may be requisite and necessary for Owner to use such equipment, materials, supplies, tools, appliances, devices, processes, or inventions without being disturbed or in any way interfered with by any proceeding in law or equity on account thereof. Should Contractor neglect or refuse to make any approved substitution promptly, or to pay such royalties and secure such licenses as may be necessary, then Owner will have the right to make such substitution, or Owner may pay such royalties and secure such licenses and charge the cost thereof against any money due Contractor from Owner or recover the amount thereof from Contractor and its surety or sureties notwithstanding that Final Payment may have been made.

7.13 Time

The Contract Time is of the essence of this Contract. Except where otherwise stated, references in this Contract to days is construed to refer to calendar days.

7.14 Severability

The provisions of this Contract will be interpreted when possible to sustain their legality and enforceability as a whole. In the event any provision of this Contract is held invalid, illegal, or unenforceable by a court of competent jurisdiction, in whole or in part, neither the validity of the remaining part of such provision, nor the validity of any other provisions of this Contract will be in any way affected thereby.

7.15 Entire Agreement

This Contract sets forth the entire agreement of Owner and Contractor with respect to the accomplishment of the Work and the payment of the Contract Price therefor, and there are no other understandings or agreements, oral or written, between Owner and Contractor with respect to the Work and the compensation therefor.

7.16 Amendments

No modification, addition, deletion, revision, alteration or other change to this Contract is effective unless and until such change is reduced to writing and executed and delivered by Owner and Contractor.

IN WITNESS WHEREOF, Owner and Contractor have caused this Contract to be executed by their properly authorized representatives in two original counterparts as of the Effective Date.

Village of Winnetka

By: _____

Name: _____

Title: _____

Attest:

By: _____

Name: _____

Title: _____

City Escape Garden & Design Center, LLC

By: _____

Name: _____

Title: _____

Attest:

By: _____

Name: _____

Title: _____

STATE OF ILLINOIS)
) SS
COUNTY OF _____)

CONTRACTOR'S CERTIFICATION

Connie Rivera, being first duly sworn on oath, deposes and states that all statements herein made are made on behalf of Contractor, that this deponent is authorized to make them, and that the statements contained herein are true and correct.

Contractor deposes, states, and certifies that Contractor is not barred from contracting with a unit of state or local government as a result of (i) a violation of either Section 33E-3 or Section 33E-4 of Article 33E of the Criminal Code of 1961, 720 ILCS 5/33E-1 et seq.; or (ii) a violation of the USA Patriot Act of 2001, 107 Public Law 56 (October 26, 2001) (the "*Patriot Act*") or other statutes, orders, rules, and regulations of the United States government and its various executive departments, agencies and offices related to the subject matter of the Patriot Act, including, but not limited to, Executive Order 13224 effective September 24, 2001.

DATED: _____, 20___.

City Escape Garden & Design Center, LLC

By: _____

Name: _____

Title: _____

Attest:

By: _____

Name: _____

Title: _____

Subscribed and Sworn to before me on _____, 20___.

My Commission expires: _____

_____
Notary Public

(SEAL)

VILLAGE OF WINNETKA
CONTRACT FOR
LANDSCAPE MAINTENANCE SERVICES

ATTACHMENT A: SPECIAL CONDITIONS

1) **PREMISE:**
This agreement under which these contractual services are to be provided will be under the direct supervision of the Director of Engineering or authorized representatives. Any alterations or modifications of the work performed under this agreement shall be made only by written agreement between the Contractor and the Village and shall be made prior to commencement of the altered or modified work. No claims for any extra work or materials shall be allowed unless covered by written agreement.

2) **QUALIFICATIONS:**
Qualified vendors must have at least five years' experience in a municipal setting in the areas of mowing, litter pickup, cultivating, spraying, pruning, deadheading, edging, and trimming of beds and around trees. Vendors shall provide with its quote, a list of at least three commercial or municipal references. The references shall be of similar or larger size contracts and are current customers or have been customers in the last three years. The references shall include the name, address and telephone number of the customer and the contact person for each job.

3) **CHANGE ORDERS IN THE SCOPE OF THE CONTRACT:**
In the event a change order is required as outlined under 720 ILCS 5/33E-9 or for any other reason as determined by the Village, such change order shall be prepared on forms supplied by the Village. Each request for a Change Order shall be considered and approved or denied at the Village's sole discretion. Nothing in this Agreement shall compel the Village to approve any Change Order requests. Change Orders shall become effective only following execution of such Change Orders by both the Village and Contractor. Unless otherwise determined to be impractical by the Village, the pricing for change orders shall conform to the pricing schedules within this agreement.

4) **LIQUIDATED DAMAGE CLAUSE:**
If at any time, the minimum tasks as outlined are not performed in accordance with the specifications, the amount of fee may be reduced by the amount equal to the costs associated with the Village seeking a secondary vendor to complete the tasks appropriately plus $500 per calendar day. This amount will be deducted in the form of a liquidated damage and not as a penalty.

5) **TERMINATION OF CONTRACT/DEFAULT:**
The Village reserves the right to terminate the whole or any part of this contract, upon written notice to the contractor in the event that sufficient funds to complete the contract are not appropriated by the Village Board of Trustees or if the Contractor is found to be in "default." For the purposes of this agreement, the contractor shall be determined to be in "default" for any of the following reasons: (i) failure to successfully complete any part of the Work following written notice of defect by the Village, (ii) failure to comply with Village ordinances and/or regulations provided the Contractor has been noticed of such either in this agreement or in another written form, (iii) failure to comply with any other portion of this agreement or (iv) gross negligence or material damage to either public or private property and/or life. Unless otherwise warranted in order to protect life and safety, in the event that the Village seeks to make a default determination, it shall notify the Contractor in writing of such and provide no less than seven calendar days to

remedy the defect or concern leading to the determination. Failure to do so may result in the default determination. In the event of default, the Village may procure, upon such terms and in such manner as the Purchasing Agent may deem appropriate, supplies or services similar to those so terminated. The contractor shall be liable for any excess cost for such similar supplies or services unless acceptable evidence is submitted to the Purchasing Agent that failure to perform the contract was due to causes beyond the control and without the fault or negligence of the contractor.

6) SCOPE OF SERVICES:

The contractor shall become fully acquainted with the nature of the work, the areas at which work is to be accomplished, and the conditions affecting the cost and performance of the equipment necessary to complete the intent of landscape maintenance services in an acceptable manner in accordance with these specifications. The contractor shall be required to perform bed and plant maintenance including plant removals and plantings, watering, mulching, edging, hand & chemical weed control, fertilizers, mowing, plant and tree trimming, pruning, and wind-blown trash collection work at all the locations presented in this bidding documents. Bidder shall refer to the detailed exhibits for all locations and assigned tasks included in the Specifications.).

7) WORK CREW SUPERVISION:

The Contractor shall provide a qualified foreman to supervise each crew engaged in working under this agreement. The foreman must be able to converse in the English language and shall be authorized by the Contractor to accept and act on directives from an authorized representative of the Village. Failure to do so shall be sufficient cause for the Village to give notice that the Contractor is in default of the agreement unless such directives would create potential personal injury or safety hazards or such directives are contrary to the intent of these specifications. In the event only one person is assigned under this agreement, such person shall be considered the foreman and must meet the previously stated requirements. Except for emergencies, the same personnel shall perform the same work each day.

8) PROTECTION OF PUBLIC AND PRIVATE PROPERTY:

The Contractor shall exercise all necessary caution to protect pedestrian traffic and to protect all public and private property from injury or damage caused by the Contractor's operations.

a. Any practice obviously hazardous in the opinion of an authorized Village representative shall be immediately discontinued by the Contractor upon receipt of either written or oral notice to discontinue such practice.
b. The Contractor shall comply with all OSHA and other Federal and State safety standards including Employee Right to Know Programs.
c. Contractor shall conduct all of its operations without interruption or interference with vehicular and pedestrian traffic on public and private rights-of-way, unless it has obtained permission from the proper authorities. If any public or private right-of-way shall be rendered unsafe by Contractor's operations, Contractor shall make such repairs or provide such temporary ways or guards as shall be acceptable to the proper authorities.

9) LOCATION AND SCHEDULE OF WORK:

Work under the terms of these specifications will be conducted at the locations specified on the attached exhibits as well as the specific locations identified landscape maintenance services.

a. The Contractor shall establish a general **schedule for the completion of the work** outlined by this contract. The schedule shall be submitted to the Director of Public Works at the commencement of the agreement and shall be updated at any time revisions in the

schedule occur. The schedule shall include the general order and locations in which daily tasks will be accomplished.

b. All landscape maintenance services to **begin March 15th** of the given contractual year. All landscape maintenance services **are to end November 20th** of the given contractual year unless otherwise specified in the Specifications.

c. All work under this agreement shall be completed between the hours of **7 a.m. and 7 p.m. Monday through Friday excluding holidays** including Memorial Day, Independence Day and Labor Day. In the event that work is required outside of the established schedule above (i.e. during the winter), the Contractor shall observe the same holidays at the Village. The Village may authorize weekend work or work outside of the stated hours above if it determines, at its sole discretion, that this work is necessary for the timely completion of work. Such authorization shall include the temporary hours of work allowed.

10) MATERIALS AND EQUIPMENT:

a. Village to furnish. In support of this agreement, the Village will supply the following at no cost to the Contractor:
   i. Mulch/Compost as required (see section 19).
   ii. Adequate trash receptacles for refuse disposal.
   iii. A central point for refuse disposal.
   iv. A designated outside location at the Public Works Facility, located at 1390 Willow Road, or appropriate to store equipment difficult to transport that will be used for the maintenance activities germane to the scope of this contract.
   v. Seed mixes where called for in the Specifications.

b. Contractor to furnish. The Contractor shall provide at his sole expense all materials, equipment and supplies needed to complete the work with the exception of those items being provided by the Village as itemized in paragraph (10a) above. The items to be furnished by the Contractor shall include but not be limited to the following:
   vi. All equipment necessary to complete described landscape maintenance services, including but not limited to weekly mowing, weed control, litter pickup, cultivating, spraying, pruning, deadheading, mulching, edging, and trimming of beds and around trees.
   vii. A listing of equipment and materials to be used. All materials and equipment shall be of industrial or commercial type and are to be approved by the Village prior to their use. The Contractor shall provide to the Village a list for approval of any materials or equipment prior to any items being stored at the Public Works Facility.
   viii. A record of all Safety Data Sheets for those products and materials used or stored on Village property shall be maintained on-site at all times for public reference.
   ix. All appropriate protective/safety equipment and clothing necessary for work crew members to perform tasks safely in compliance with federal and state regulations and product manufactures instructions.

11) DAMAGE TO THE WORK, THE WORK SITE, AND OTHER PROPERTY:

The Work and everything pertaining thereto shall be provided, performed, completed, and maintained at the sole risk and cost of Contractor from the Commencement Date until Final Payment. Contractor shall be fully responsible for the protection of all public and private property and all persons. Without limiting the foregoing, Contractor shall, at its own cost and expense, provide all permanent and temporary shoring, anchoring and bracing required by the nature of the Work in order to make all parts absolutely stable and rigid, even when such shoring, anchoring and bracing is not explicitly specified, and support and protect all buildings, bridges,

roadways, conduits, wires, water pipes, gas pipes, sewers, pavements, curbs, sidewalks, fixtures and landscaping of all kinds and all other public or private property that may be encountered or endangered in providing, performing and completing the Work. Contractor shall have no claim against Owner because of any damage or loss to the Work or to Contractor's equipment, materials, or supplies from any cause whatsoever, including damage or loss due to simultaneous work by others. Contractor shall, promptly and without charge to Owner, repair or replace, to the satisfaction of Owner, any damage done to, and any loss suffered by, the Work and any damage done to, and any loss suffered by, the Work Site or other property as a result of the Work. Notwithstanding any other provision of this Contract, Contractor's obligations under this Section shall exist without regard to, and shall not be construed to be waived by, the availability or unavailability of any insurance, either of Owner or Contractor, to indemnify, hold harmless, or reimburse Contractor for the cost of any repair or replacement work required.

12) CLEANING STANDARDS AND WORKMANSHIP:

It is the intent of these specifications for the Contractor to always provide a high level of service in the performance of landscaping maintenance and in the general interaction with the public. The following statements indicate general standards and workmanship to be furnished under this agreement:

a. The Contractor shall ensure that all landscaping work is performed in a safe and timely manner. Efforts will be made to ensure the least amount of impact to the surrounding businesses and the general public during operations.
b. The Contractor will ensure that appropriate safety measures including signage and traffic control protection is used during the performance of landscaping maintenance activities.
c. The contractor will ensure a timely responsiveness to all concerns and complaints that may be received by staff.

13) TURF FERTILIZATION AND WEED CONTROL

a. Fertilization and weed control activities are included in this Contract and will be handled on a case by case basis as directed. Fertilizer use will comply with the Village's ban on phosphorus. Organic fertilizers are preferred, and the final product to be utilized shall be approved by the Village prior to its application or use. The Village of Winnetka has made a commitment to reduce or eliminate the use of chemical herbicides and pesticides. Accordingly no weed and feed products, pesticides or herbicides will be used on turf except for those classified by the United States Environmental Protection Agency as exempt materials under 40CRF 152.25, or those pesticides of a character not requiring FIFRA regulation. Weed management in turf areas should be accomplished by hand pulling, or spot treating with organic herbicides such as essential oil based, vinegar based or fatty acid products. Examples include, but are not limited to, Burnout and Phydura.

b. The contractor will be required to provide a list of all licensed applicators to include a copy of issued license for each.

14) COMPLETION OF WORK

a. Schedule: The Contractor shall perform work in accordance with the schedules submitted to and as presented in the attached documents for proposed work. The schedule will indicate the day, date or period by which the scheduled task will be completed.
b. Regular Reporting: It shall be the Contractor's responsibility to assign a full time Winnetka dedicated crew of sufficient manpower, skill diversity and experience to complete the assigned tasks irrespective of sickness, holidays, vacations or other personnel matters. The report will indicate the name of the Foreman and an alternate foreman of which will be assigned to oversee services and be onsite at all times. The Foreman shall be

responsible for the instruction and training of personnel in the proper work methods and procedures. The Foreman will schedule and coordinate all services and functions as required by the agreement and as specified in the task schedule.

c. Meetings. The Foreman will meet with the Director of Public Works or his designee Operations on a bi-weekly basis, more frequently if necessary, to discuss schedules, problems, needs and mutual areas of concern. The Contractor shall establish a system whereby notice can be given by the Village to the Contractor indicating problems, complaints and other agreement discrepancies. The system shall include a method by which the Contractor shall formally respond to these requests

15) SECURITY AND ACCESS:

The Contractor will be working in several areas which have limited access. All such areas shall be maintained in a secured condition at all times and these areas shall be cleaned and restored to their original condition immediately upon completing the required work.

16) CONTRACTOR ACCESS:

The Contractor shall be allowed access to designated public areas to perform the required work in accordance with the times set forth in paragraphs above. All activities of the Contractor will be coordinated through the Director of Public Works or his designee.

17) PERSONNEL REQUIREMENTS:

All employees assigned by the Contractor shall be fully capable, experienced, and trained in the work employed to perform. All employees assigned by the contractor shall comply fully with all State and Federal laws. They shall be physically able to do their work and be free from any communicable diseases. The Foreman shall be fluent in the English language and be authorized by the Contractor to accept and act upon all directives issued by the Director of Public Works or his designee. The Contractor is responsible and liable for any wrongful actions of his employees.

18) SPECIAL AND UNFORESEEN WORK:

Due to the generalized nature of the work under this agreement, instances may occur where the Village desires to have additional landscaping installed beyond the original intent of this agreement. Payment for these services will be made based on the bid proposal hourly rate submitted to these specifications and any negotiations between the Contractor and the Director of Public Works or his designee, prior to the performance of the additional work.

19) MULCH:

Pursuant to this agreement, the Village shall supply the mulch to be utilized by the contractor. The contractor shall be responsible for the collection and transportation of said mulch from the supplier's location to the various sites specified within the Village. All mulch purchased shall be itemized and bill to the Village directly by the Village's supplier. The Village may, at its sole discretion, require the contractor to furnish evidence that the correct amount of mulch is being purchased under this agreement.

20) APPLICABLE LAWS, REGULATIONS AND ORDINANCES

In addition to any other requirements set forth in these special conditions or under Illinois law, the contractor is hereby noticed that the following regulations apply to this agreement:

a. Village of Winnetka Leaf Blower Ordinance (prohibiting the use of flammable fuel gas blowers except for during the months of April, October and November).See Winnetka Municipal Code Chapter 5.78. In the event the Ordinance is updated, the contractor will be required to follow the updated code.

b. State of Illinois Prevailing Wage Requirements. At the time of the letting of this agreement, the Village does not believe any work included herein is subject to the Illinois Prevailing Wage Act (820 ILCS 130/.01 et seq.) based on Illinois Department of Labor guidance. However, the Contractor shall be responsible for monitoring the work and determining if any work meets the requirements of the Prevailing Wage Act. In such case, all provisions of the Act apply as does the following language: "This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the current "prevailing rate of wages" (hourly cash wages plus amount for fringe benefits) in the county where the work is performed. The Department publishes the prevailing wage rates on its website at ttp://labor.illinois.gov/. The Department revises the prevailing wage rates and the contractor and any and all of its subcontractors have an obligation to check the Department's web site for revisions to prevailing wage rates. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage requirements and notice and record keeping duties."

END OF SPECIAL CONDITIONS

ATTACHMENT 2

2026 VILLAGE LANDSCAPE MAINTENANCE SERVICES RFB#026-002 BID OPENING DATE: 1/29/2026		Christy Webber & Company 2900 W. Ferdinand St. Chicago, IL 60612	City Escape Garden & Design Center, LLC 3022 W. Lake St. Chicago, IL 60612	Fleck's Landscaping 222 Industrial Lane Wheeling, IL 60090
ITEM	**UNIT**	**PRICE**	**PRICE**	**PRICE**
AREA 1	WEEKLY	$270.00	$233.45	$396.00
AREA 2	WEEKLY	$150.00	$127.35	$166.00
AREA 3	WEEKLY	$175.00	$148.55	$208.00
AREA 4	WEEKLY	$60.00	$58.35	$32.00
AREA 5	WEEKLY	$700.00	$626.00	$174.00
AREA 6	WEEKLY	$850.00	$769.40	$276.00
AREA 7	WEEKLY	$340.00	$291.90	$181.00
AREA 8	WEEKLY	$740.00	$636.75	$490.00
AREA 9	WEEKLY	$550.00	$318.35	$502.00
AREA 10	WEEKLY	$225.00	$191.00	$253.00
AREA 11	WEEKLY	$70.00	$58.35	$126.00
AREA 12	WEEKLY	$515.00	$440.50	$975.00
AREA 13	WEEKLY	$105.00	$90.20	$13.00
AREA 14	WEEKLY	$70.00	$58.35	$53.00
AREA 15	WEEKLY	$105.00	$50.20	$190.00
AREA 16	WEEKLY	$155.00	$58.35	$150.00
AREA 17	WEEKLY	$40.00	$132.65	$207.00
AREA 18	WEEKLY	$105.00	$31.85	$133.00
AREA 19	WEEKLY	$70.00	$90.20	$13.00
AREA 20	WEEKLY	$70.00	$58.35	$20.00
AREA 21	WEEKLY	$295.00	$58.35	$13.00
TOTAL WEEKLY AMOUNT		**$5,660.00**	**$4,528.45**	**$4,571.00**
TOTAL BID AMOUNT	**AS CALCULATED (As calculated assumes a 36 week contract period)**	**$203,760.00**	**$163,024.20**	**$164,556.00**
		ADDITIONAL HOURLY ACTIVITIES		
AERIFICATION	HOURLY	$45.00	$55.00	$55.00
BED MAINTENANCE	HOURLY	$45.00	$37.00	$55.00
CULTIVATING	HOURLY	$45.00	$37.00	$55.00
DEADHEADING	HOURLY	$45.00	$37.00	$55.00
EDGING	HOURLY	$45.00	$37.00	$55.00
FERTILIZER APPLICATION	HOURLY	$60.00	$55.00	$55.00
LITTER PICKUP	HOURLY	$45.00	$37.00	$55.00
MOWING	HOURLY	$45.00	$37.00	$55.00
MULCHING	HOURLY	$45.00	$43.00	$55.00
PLANTINGS (FLOWERS)	HOURLY	$45.00	$43.00	$55.00
SHRUB PRUNING	HOURLY	$45.00	$43.00	$55.00
TRASH COLLECTION	HOURLY	$45.00	$37.00	$55.00
TRIMMING	HOURLY	$45.00	$43.00	$55.00
WATERING	HOURLY	$90.00	$45.00	$55.00
WEED CONTROL (SPRAYING)	HOURLY	$60.00	$45.00	$55.00

ATTACHMENT 3

VILLAGE OF WINNETKA
REQUEST FOR BIDS
LANDSCAPE MAINTENANCE SERVICES

BID PACKAGE

BIDDER'S PROPOSAL

Full Name of Bidder City Escape Garden & Design Center, LLC ("Bidder")

Principal Office Address 3022 West Lake Street, Chicago IL 60612

Local Office Address 3022 West Lake Street, Chicago IL 60612

Contact Person Connie Rivera Telephone 773-638-2000

TO: Village of Winnetka ("Owner")
510 Green Bay Road
Winnetka, IL 60093
Attention: Village Clerk

Bidder warrants and represents that Bidder has carefully examined the Work Site described below and its environs and has reviewed and understood all documents included, referred to, or mentioned in this bound set of documents, including Addenda Nos. 1, which are securely stapled to the end of this Bidder's Proposal [if none, write "NONE"] ("Bid Package").

Bidder acknowledges and agrees that all terms capitalized in this Bidder's Proposal shall have the meaning given to them in the documents included in the Bid Package.

1. Work Proposal

A. Contract and Work. If this Bidder's Proposal is accepted, Bidder proposes, and agrees, that Bidder will contract with Owner, in the form of the Contract included in the Bid Package: (1) to provide, perform and complete at the site or sites described in the Bid Package ("Work Site") and in the manner described and specified in the Bid Package all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data and other means and items for utility line clearance. (2) to procure and furnish all permits, licenses and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in Attachment A to the Contract included in the Bid Package; (3) to procure and furnish all Bonds and all certificates and policies of insurance specified in the Bid Package; (4) to pay all applicable federal, state and local taxes; (5) to do all other things required of Contractor by the Contract; and (6) to provide, perform and complete all of the foregoing in a proper and workmanlike manner and

in full compliance with, and as required by or pursuant to, the Contract; all of which is herein referred to as the "Work."

B. Manner and Time of Performance. If this Bidder's Proposal is accepted, Bidder proposes, and agrees, that Bidder will perform the Work in the manner and time prescribed in the Bid Package and according to the requirements of Owner pursuant thereto.

C. General. If this Bidder's Proposal is accepted, Bidder proposes, and agrees, that Bidder will do all other things required of Bidder or Contractor, as the case may be, by the Bid Package.

2. Contract Price Proposal

If this Bidder's Proposal is accepted, Bidder will, except as otherwise provided in Section 2.1 of the Contract, take in full payment for all Work and other matters set forth under Section 1 above, including overhead and profit; taxes, contributions, and premiums; and compensation to all subcontractors and suppliers, the compensation set forth on the following "Schedule of Prices" ("Price Proposal"), which Schedule of Prices Bidder understands and agrees will be made a part of the Contract:

SCHEDULE OF PRICES

LANDSCAPING CONTRACT AREA TYPES		
Specifications Section/Map Areas	**Landscaping Type**	**Definition**
A	Turf Areas	Areas primarily composed of turf grass potentially with some trees and minimal landscaping. Including but not limited to rights-of-way and islands.
B	Landscaped Areas/Beds	Designed beds or planting areas with specific specimen plants utilizing mulch. Beds may contain limited trees.
C	Downtown Tree Planters/Grates	The planter area for publicly owned trees in the downtown areas. May be simply mulched or contain a decorative grate.
D	Pedestrian Paths/Walkways/Drive Aisles	The area immediately adjacent to pedestrian walkways and driveways including certain sidewalks and paths.
E	Paved Areas & Mulch Beds	Areas with asphalt, concrete or brick paving and/or mulch requiring mostly weed control (i.e. no special plantings)
F	Drainage Areas	Areas designed to drain stormwater
G	Special Areas	Special areas requiring unique services

PRICING OPTION BID AMOUNTS	
Area	Weekly Price
1	$ 233.45
2	$ 127.35
3	$ 148.55
4	$ 58.35
5	$ 626.00
6	$ 769.40
7	$ 291.90
8	$ 636.75
9	$ 318.35
10	$ 191.00
11	$ 58.35
12	$ 440.50
13	$ 90.20
14	$ 58.35
15	$ 50.20
16	$ 58.35
17	$ 132.65
18	$ 31.85
19	$ 90.20
20	$ 58.35
21	$ 58.35

HOURLY RATES FOR ADDITIONAL MAINTENANCE ACTIVITIES

Please note: The Village may request that a combination of maintenance activities listed below be performed congruently at additional work locations. It shall be understood that in this case a mutually agreed to hourly rate will be determined prior to commencement of work, and shall not be paid for as a combination of the individual hourly rates for each activity.

Maintenance Activity	Hourly Rate
Aerification	$ 55.00
Bed Maintenance	$ 37.00
Cultivating	$ 37.00
Deadheading	$ 37.00
Edging	$ 37.00
Fertilizer Application	$ 55.00
Litter Pickup	$ 37.00
Mowing	$ 37.00
Mulching	$ 43.00
Plantings (Flowers)	$ 43.00
Shrub Pruning	$ 43.00
Trash Collection	$ 37.00
Trimming	$ 43.00
Watering	$ 45.00
Weed Control (Spraying)	$ 45.00

A. BASIS FOR DETERMINING PRICES

It is expressly understood and agreed that:

1. Owner is not subject to state or local sales, use and excise taxes and no such taxes are included in this Schedule of Prices;

2. All other applicable federal, state, and local taxes of every kind and nature applicable to the Work as well as all taxes, contributions, and premiums for unemployment insurance, old age or retirement benefits, pensions, annuities, or other similar benefits are included in this Schedule of Prices; and

3. All costs, royalties, and fees arising from the use on, or the incorporation into, the Work of patented equipment, materials, supplies, tools, appliances, devices, processes, or inventions are included in this Schedule of Prices.

All claim or right to claim any additional compensation by reason of the payment of any such tax, contribution, or premium or any such cost, royalty or fee is hereby waived and released.

3. Contract Time Proposal

If this Bidder's Proposal is accepted, Bidder will commence the Work not later than the "Commencement Date" set forth in the Contract.

4. Firm Proposal

All prices and other terms stated in this Bidder's Proposal are firm and shall not be subject to withdrawal, escalation, or change for a period of 60 days after the date on which any Bidder's Proposal is opened or such extended acceptance date for Bidder's Proposals as may be established pursuant to Sections 10 and 13 of the General Instructions to Bidders.

5. Bidder Representations

A. No Collusion. Bidder warrants and represents that the only persons, firms, or corporations interested in this Bidder's Proposal as principals are those named in Bidder's Sworn Acknowledgment attached hereto and that this Bidder's Proposal is made without collusion with any other person, firm or corporation.

B. Not Barred. Bidder warrants, represents and certifies that it is not barred by law from contracting with Owner or with any unit of state or local government.

C. Qualified. Bidder warrants and represents that it has met and will meet all required standards set forth in Owner's Responsible Bidder Ordinance M-66-11 and that Bidder has the requisite experience, ability, capital, facilities, plant, organization and staff to enable Bidder to perform the Work successfully and promptly and to commence and complete the Work within the Contract Price and Contract Time Proposals set forth above. In support thereof, Bidder submits the attached Sworn Work History Statement. In the event Bidder is preliminarily deemed to be one of the most favorable to the interests of Owner, Bidder hereby agrees to furnish on request,

within two business days or such longer period as may be set forth in the request, such additional information as may be necessary to satisfy Owner that Bidder is adequately prepared to fulfill the Contract.

D. Owner's Reliance. Bidder acknowledges that Owner is relying on all warranties, representations and statements made by Bidder in this Bidder's Proposal.

8. Surety and Insurance

Bidder herewith tenders surety and insurance commitment letters as specified in Section 6 of the Invitation for Bidder's Proposals.

9. Bid Security

A bid security is not required.

10. Owner's Remedies

Bidder acknowledges and agrees that should Bidder fail to timely submit all additional information that is requested of it; or should Bidder, if Owner awards Bidder the Contract, fail to timely submit all the Bonds and all the certificates and policies of insurance required of it; or should Bidder, if Owner awards Bidder the Contract, fail to timely execute the Contract, Contractor's Certification and all other required documentation related to the Contract, it will be difficult and impracticable to ascertain and determine the amount of damage that Owner will sustain by reason of any such failure and, for such reason, Owner shall have the right, at its option in the event of any such default by Bidder, to retain or recover as reasonably estimated liquidated damages, and not as a penalty, the entire amount of the Bid Security or five percent of Bidder's Price Proposal, whichever is greater, or to exercise any and all equitable remedies it may have against Bidder.

11. Owner's Rights

Bidder acknowledges and agrees that Owner reserves the right to reject any and all Bidder's Proposals, reserves the right to accept or reject any item of any Bidder's Proposal and reserves such other rights as are set forth in Section 13 of the General Instructions to Bidders.

12. Bidder's Obligations

In submitting this Bidder's Proposal, Bidder understands and agrees that it shall be bound by each and every term, condition or provision contained in the Bid Package, which are by this reference incorporated herein and made a part hereof.

DATED: January 29, 20 26.

Bidder	Attest
By: Connie Rivera	By:
Title: Managing Member	Title:

SEE GENERAL INSTRUCTIONS TO BIDDERS, SECTION 7, FOR SIGNATURE REQUIREMENTS

VILLAGE OF WINNETKA REQUEST FOR BIDS LANDSCAPE MAINTENANCE SERVICES

BID PACKAGE

BIDDER'S SWORN ACKNOWLEDGEMENT

Connie Rivera ("*Deponent*"), being first duly sworn on oath, deposes and states that the undersigned Bidder is organized as indicated below and that all statements herein made are made on behalf of such Bidder in support of its Bidder's Proposal for the above Contract and that Deponent is authorized to make them.

Deponent also deposes and states that Bidder has carefully prepared, reviewed and checked its Bidder's Proposal and that the statements contained in its Bidder's Proposal and in this Acknowledgement are true and correct.

COMPLETE APPLICABLE SECTION ONLY

1. Corporation

Bidder is a corporation that is organized and existing under the laws of the State of Illinois, that is qualified to do business in the State of Illinois, and that is operating under the legal name of City Escape Garden & Design Center, LLC.

The officers of the corporation are as follows:

TITLE	NAME	ADDRESS
Managing Member	Connie Rivera	3022 West Lake Street, Chicago IL 60612
Vice President		
Secretary		
Treasurer		

2. LLC

Bidder is an LLC that is organized, existing and registered under the laws of the State of Illinois pursuant to that certain . Agreement dated as of _____, that is qualified to do business in the State of Illinois, and that is operating under the legal name of City Escape Garden & Design Center, LLC

ACKNOWLEDGEMENT

[For each signatory, indicate type of entity (Corporation = "C"; Partnership = "P"; and Individual = "I") and provide, on separate sheets, the information required in Paragraph 1, 2, or 3 above, as applicable]

DATED: Jan 28, 2026.

Bidder

By: [redacted]

Title: Managing Member

Attest

By: _____

Title: _____

Subscribed and Sworn to before me on 28th JAN, 2026.

[redacted]

Notary Public

My commission expires: 11-3, 2026

OFFICIAL SEAL
ANEMARIE AIELLO
NOTARY PUBLIC, STATE OF ILLINOIS
Commission No. 988167
My Commission Expires 11/03/26

SEE GENERAL INSTRUCTIONS TO BIDDERS, SECTION 7, FOR SIGNATURE REQUIREMENTS

VILLAGE OF WINNETKA
REQUEST FOR BIDS
LANDSCAPE MAINTENANCE SERVICES

BID PACKAGE

BIDDER'S SWORN WORK HISTORY STATEMENT

Connie Rivera ("Deponent"), being first duly sworn on oath, deposes and states that all statements made in this Sworn Work History Statement are made on behalf of the undersigned Bidder in support of its Bidder's Proposal for the above Contract and that Deponent is authorized to make them.

Deponent also deposes and states that Bidder has carefully prepared, reviewed and checked this Sworn Work History Statement and that the statements contained in this Sworn Work History Statement are true and correct.

IF NECESSARY FOR FULL DISCLOSURE, ADD SEPARATE SHEETS

JOINT VENTURES MUST SUBMIT SEPARATE SWORN WORK HISTORY STATEMENTS FOR THE JOINT VENTURE AND FOR EACH SIGNATORY TO THE JOINT VENTURE AGREEMENT

1. Nature of Business

State the nature of Bidder's business: We offer high quality service in the style of a boutique firm yet have the capabilities of a large company, reflecting your vision and budget.

2. Composition of Work

During the past three years, Bidder's work has consisted of:

____% Federal	100 % As Contractor	100 % Bidder's Forces
85 % Other Public	____% As Subcontractor	____% Subcontractors
15 % Private		____% Materials

3. Years in Business

State the number of years that Bidder, under its current name and organization, has been continuously engaged in the aforesaid business: 23 years

4. Predecessor Organizations

If Bidder has been in business under its current name and organization for less than five years, list any predecessor organizations:

NAME	ADDRESS	YEARS

5. Business Licenses

List all business licenses currently held by Bidder:

ISSUING AGENCY	TYPE	NUMBER	EXPIRATION
City of Chicago	WBE	561730	12-15-26

6. Related Experience

List three projects most comparable to the Work completed by Bidder, or its predecessors, in the past five years:

	PROJECT ONE	PROJECT TWO	PROJECT THREE
Owner Name	Village of Tinley Park	City of Chicago Dept. of Aviation	Village of Oak Park
Owner Address	16250 S. Oak Park Ave Tinley Park, IL 60477	Midway/Ohare Airports	201 S Boulevard Oak Park IL 60302
Reference	Mitch Murdock	Dorothy Izewski	Robert Sproule
Telephone Number	646.271.9383	773.686.7271	708.358.5700
Type of Work	Mowing, Tree Care Plant Bed Maint. Seasonal Color & Maintenance	Mowing, Tree Care Plant Bed Maintenance Snow fence Installation and Removal Seasonal Color & Maintenance	Plant Bed Maintenance Mowing, Tree Care

Certified Profile

CLOSE WINDOW

Print

Business & Contact Information

BUSINESS NAME	**City Escape Garden & Design, LLC,** DBA **City Escape**
OWNER	Connie L Rivera
ADDRESS	3022 West Lake Street Chicago, IL 60612-1828 [map]
PHONE	773-638-2000
FAX	773-638-2002
EMAIL	connie@cityescape.biz
WEBSITE	http://www.cityescape.biz
ETHNICITY	Caucasian

Certification Information

CERTIFYING AGENCY	City of Chicago
CERTIFICATION TYPE	WBE - Women Business Enterprise
CERTIFICATION DATE	10/14/2025
RENEWAL DATE	12/15/2026
EXPIRATION DATE	12/15/2026
CERTIFIED BUSINESS DESCRIPTION	424930 - Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers 444240 - Garden centers 541320 - Landscape architectural services 561730 - Landscaping services (except planning) 561790 - Snow plowing driveways and parking lots (i.e., not combined with any other service)

Commodity Codes

Code	Description
NAICS 424930	Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers
NAICS 444240	Garden centers

NAICS 541320	Landscape architectural services
NAICS 561730	Landscaping services (except planning)
NAICS 561790	Snow plowing driveways and parking lots (i.e., not combined with any other service)

Additional Information

WARD	**27**
COMMUNITY AREA	**28 Near West Side**
QUALIFIED INVESTMENT AREA	**Yes**

This profile was generated on 1/5/2026

	PROJECT ONE	PROJECT TWO	PROJECT THREE
Contractor (If Bidder was) (Subcontractor)			
Amount of Contract			
Date Completed	2022-current	2012-current	2017-current

DATED: Jan 28, 2024

Bidder

By: [redacted]

Title: Managing Member

Attest

By: _____

Title: _____

Subscribed and Sworn to before me on 28th Jan, 2024.

[redacted]

Notary Public

My commission expires: 11-3, 2026

OFFICIAL SEAL
ANEMARIE AIELLO
NOTARY PUBLIC, STATE OF ILLINOIS
Commission No. 308167
My Commission Expires 11/03/26

SEE GENERAL INSTRUCTIONS TO BIDDERS, SECTION 7, FOR SIGNATURE REQUIREMENTS

Village of
WINNETKA, IL
510 Green Bay Road • Winnetka, IL 60093 • 847.501.6000
contactus@villageofwinnetka.org • villageofwinnetka.org

January 7, 2026

Addendum No. 1
Village of Winnetka Request For Bids #026-002
Landscape Maintenance Services

The Request for Bids for the above referenced project has been clarified as follows:

1. The Invitation To Bid section states that the contract dates are from March 15th to Nov 20th yearly, but the Service-Level Definitions on page 63 of the pdf define Item E. Fall Leaf Removal: Collection and removal of leaves. To be done weekly during the months of October and November with one final clean-up the first week of December. This would change the contract dates to March 15th thru Dec. 7, correct?

   Yes, the contract would run through December 7th to account for fall leaf collection and removal. However, other weekly services will end by November 20th.

2. For the Sheridan Road Right-of-Way scope, what special accommodations are available for safety for crews working in this area, specifically for the 3 trimmings in spring, summer, and fall? Would the road be closed while crews and trucks and down there? Or would crews need to bring traffic control equipment like flashing arrowboards, cones, flaggers, etc so that traffic would remain open?

   Any necessary traffic control would need to be provided by the contractor. The road would not be closed. However, most if not all work can be completed from the sidewalk without the need to enter or obstruct traffic lanes.

3. For the Wilson Street Wall powerwashing which is described as taking place annually in spring, what is the expectation on final look? Often, powerwashing lightly results in streaks and unevenness. Also, I'm assuming there are no water sources along the wall and a truck with a water tank would be needed which would be filled at the Public Works building? Lastly, should pricing for the powerwashing be part of the Weekly Zone 9 pricing? Or is there a separate line item for this price?

   Power washing is expected to take off the most noticeable dirt and grime along the wall. Some unevenness is acceptable so long as the wall generally looks clean. The power washing will take place once annually. You can factor this one time cost into the overall weekly cost by breaking down the cost by the number of weeks in the contract. Do not price the power washing as if it would take place weekly. A water tank can be filled at the Public Works building. The contractor would need to pay the bulk water rate to use this fill station at a rate of $67.67 / 1000 Cubic Ft. (approximately $.01 / gallon).

Dell Duckworth
Deputy Chief Financial Officer

Village of
WINNETKA, IL

Agenda Item Executive Summary

TITLE: Resolution No. R-03-2026: Waiving Competitive Bidding and Approving the Purchase of a Derrick Truck from Altec Industries, Inc. (Adoption)

PRESENTER: Nicholas Narhi

AGENDA DATE: February 17, 2026

CONSENT: Yes

ITEM TYPE: Consent Agenda

ITEM HISTORY:
The Electric Fund Five Year Capital Improvement Plan includes the planned delivery of a new derrick truck by fiscal year 2029 in the amount of $490,201. The new vehicle would replace a derrick truck manufactured in 2007. The anticipated lead time for the truck manufacturing is three years with an order placed in FY2026. Previous orders from Altec Industries (Resolution No. R-65-2022, Resolution No. R-86-2022 and Resolution No. R-102-2022) experienced four-to-five year lead times due to manufacturing delays stemming from the COVID-19 pandemic.

EXECUTIVE SUMMARY:
The Electric Fund Capital Improvement Plan proposes the delivery of a new derrick truck by fiscal year 2029. Staff received notification from a large manufacturer of line trucks that manufacturing lead times for a new truck continue to trend beyond 40 months. Similar to many utility products, the pandemic created a disruption in the supply chain for line trucks. As a result, staff is seeking approval to award a contract for the purchase of a new derrick truck with an estimated delivery date of mid 2028.

As an alternative to issuance of a bid and seeking more competitive pricing than potentially available by bidding a single derrick truck, staff requested contract pricing through a Sourcewell (formally National Joint Power Alliance) contract. Sourcewell is a national public agency committed to cooperative solutions for governmental and educational entities. Through Sourcewell, members have access to contracted products, equipment, and service opportunities. The Village of Winnetka joined in 2010. New Trier High School, District 36, Winnetka-Northfield Library, and the Village of Glenview are also members. In the past few years, the Village Council has approved Sourcewell Contracts for W&E backhoe excavators, dump trucks, line trucks and pool vehicles.

Sourcewell Contract #110421-ALT contains pricing for digger derrick trucks from Altec Industries. In accordance with the contract pricing, Altec Industries has quoted the new truck, which includes the requirements specified by the Water & Electric Department, at an amount not to exceed $452,929, subject to future price adjustment for the chassis.

Altec has provided a firm price for the manufacturing and assembly of the derrick truck with the exception of the chassis. The quote contains the current price for the specified Freightliner chassis. Altec cannot provide a firm quote on the chassis as there may be additional cost increase from the OEM when the chassis is delivered to the factory in 2027.

With the assistance of the Village Attorney, an agreement has been developed to address this potential. Any increase in the chassis cost will be directly added to the final cost of the truck, with no additional markup added by Altec. All other costs for the manufacture of the truck with an estimated 2028 delivery date will remain fixed. The agreement also contains two separate dates, December 31, 2026, and May 1, 2027, where the Village can cancel the contract without penalty.

The quote for the new derrick truck is contained in Exhibit B of the Resolution. Altec is one of the largest manufacturers of line trucks. The Water & Electric Department fleet includes two active trucks manufactured by Altec, with four more arriving over the next two years from orders in 2022 and 2026. The vendor has been competitive in pricing and provides good equipment support. In the immediate area, both Naperville and ComEd utilize Altec line trucks.

Staff recommends accepting Altec’s quotation using Sourcewell Contract #110421-ALT. The Electric Fund Five Year Capital Improvement Plan will be revised to reflect the truck's purchase cost for fiscal year 2028. Payment terms for the line truck are net 30 upon delivery, commissioning and acceptance of the new truck.

RECOMMENDATION:

Consider adoption of Resolution No. R-03-2026, Waiving Competitive Bidding And Approving Purchase Of a Derrick Truck From Altec Industries in an amount not to exceed $452,929 subject to price adjustment for the chassis in accordance with the contract terms.

ATTACHMENTS:

1. Attachment 1: Resolution No. R-03-2026: Waiving Competitive Bidding and Approving the Purchase of a Derrick Truck from Altec Industries, Inc.
2. Attachment 2: Sourcewell Quote and Specifications

ATTACHMENT 1

RESOLUTION NO. R-03-2026

A RESOLUTION WAIVING COMPETITIVE BIDDING AND APPROVING THE PURCHASE OF A DERRICK TRUCK FROM ALTEC INDUSTRIES, INC.

WHEREAS, Article VII, Section 10 of the 1970 Illinois Constitution authorizes the Village of Winnetka (***"Village"***) to contract with individuals, associations, and corporations in any manner not prohibited by law or ordinance; and

WHEREAS, the Village is a member of Sourcewell ***("Sourcewell"),*** a municipal national contracting agency for units of local government, and educational and non-profit organizations; and

WHEREAS, Sourcewell permits units of local governments to purchase commodities and services according to nationally leveraged and competitively solicited purchasing contracts, resulting in significant savings for the Village; and

WHEREAS, the Village Water & Electric Department ***("Department")*** has identified the need to purchase a custom-manufactured electric utility digger derrick truck ***("Truck")***; and

WHEREAS, Sourcewell sought bids for the award of a contract for the purchase of the Truck; and

WHEREAS, Sourcewell secured pricing from Altec Industries, Inc. ***("Altec")*** for the Truck; and

WHEREAS, due to supply chain and labor shortages, Altec requires the Village to enter into an agreement for the purchase and manufacture of the Truck immediately to assure delivery of the Truck in 2028; and

WHEREAS, the Village President and Board of Trustees have determined that it will serve and be in the best interest of the Village to: (i) waive the bidding requirement pursuant to Section 4.12.010.C of the Village Code and Section IV.3.D of the Village's Purchasing Manual; and (ii) purchase the Truck from Altec;

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Village of Winnetka, Cook County, Illinois, as follows:

SECTION 1. RECITALS. The Village Council adopts the foregoing recitals as its findings, as if fully set forth herein.

SECTION 2: WAIVER OF COMPETITIVE BIDDING. Pursuant to Sections 4.12.010.A and 4.12.010.C of the Village Code, Section IV.3.D of the Village's Purchasing Manual, and the Village's home rule authority, the Village Council waives the requirement of competitive bidding for the procurement of the Truck.

SECTION 3. APPROVAL OF PURCHASE. The Village Council hereby approves the purchase of the Truck from Altec in accordance with a contract substantially in the same form attached to this Resolution as **Exhibit A** and in a final form approved by the Village Attorney ***("Contract").***

SECTION 4: AUTHORIZATION TO EXECUTE CONTRACT. The Village Council hereby authorizes and directs the Village President and the Village Clerk to execute and attest, respectively, on behalf of the Village, the final Contract after receipt by the Village Manager of two executed copies of the final Contract from Altec; provided, however, that if the Village Manager does not receive two executed copies of the final Contract from Altec within 60 days after the date of adoption of this Resolution, then this authority to execute and seal the final Contract will, at the option of the Village Council, be null and void.

SECTION S. EFFECTIVE DATE. This Resolution shall be in full force and effect from and after its passage and approval by the vote of two-thirds of the Trustees.

ADOPTED this 17th day of February, 2026, pursuant to the following roll call vote:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

Signed

_____

Village President

Countersigned:

_____

EXHIBIT A

CONTRACT

AGREEMENT FOR PURCHASE AND MANUFACTURE
OF ELECTRIC UTILITY TRUCK

TRUCK PURCHASE AND MANUFACTURE AGREEMENT ("**Agreement**"), dated as of February 17, 2026 (the "**Effective Date**") is made by and between the **VILLAGE OF WINNETKA**, an Illinois home rule municipality (the "**Village**"), and **ALTEC INDUSTRIES, INC.**, an Alabama corporation (the "**Vendor**") (collectively, the "**Parties**").

RECITALS:

WHEREAS, the Village seeks to purchase a custom-manufactured electric utility digger derrick truck ("**Truck**") consisting of the component parts and matching the specifications set forth in the quote attached to and incorporated into this Agreement as **Exhibit A** ("**Quote**"); and

WHEREAS, the Vendor desires to source the component parts of, manufacture, sell, and deliver the Truck to the Village in accordance with this Agreement; and

WHEREAS, due to supply chain and labor shortages, Vendor requires Village to enter into this Agreement for the purchase and manufacture of the Truck immediately in order to assure delivery of the Truck in 2028; and

NOW THEREFORE, in consideration of, and in reliance upon, the recitals and the mutual covenants set forth in this Agreement, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties mutually agree as follows:

1. **Manufacture and Delivery of Truck.**

A. Services. The Vendor agrees to source the component parts of, manufacture, and deliver the Truck to the **Delivery Address** set forth in Exhibit A on time and in new, complete, undamaged, and first-quality condition, and built in compliance with the requirements of this Agreement (collectively, the "**Services**"). The Vendor must:

(1) Specifications. Perform the Services in compliance with all specifications, components, prices and costs, deadlines, requirements, terms and other details set forth in the Quote and any Village Addenda documents attached to and incorporated into this Agreement as **Exhibit B** ("**Village Addenda**") (collectively, the "**Specifications**").

(2) Components, Labor, Equipment, Materials and Supplies. Provide, perform, and complete in the manner specified and described in this Agreement all necessary purchase and delivery orders, work, labor, services, transportation, equipment, materials, supplies, information, data, and other means and items necessary to provide the deliver the Truck to the Village in accordance with the Specifications, including all components parts of the Truck listed in the Quote

(collectively, "**Components**") whether produced by Vendor or third-party manufacturer.

(2) Bonds and Insurance. Procure and furnish all bonds, insurance certificates, and polices of insurance specified in this Agreement.

(3) Miscellaneous. Perform all other things required of the Vendor by this Agreement.

B. Performance Standards. The Truck must comply with the Specifications. If the Specifications identify a specific Component by brand, name, or model, then that Specification is intended to reflect the required performance standards that the Village requires for that Component. The Vendor may propose to deliver a Component that is a different brand or model if the Vendor provides the Village with written documentation establishing that the brand or model it proposes to deliver possesses equal quality, durability, functionality, capability, and features as the product or component specified. Vendor must obtain the Village's written consent to an alternative component prior to incorporating the alternative component into the Truck, which consent the Village may withhold in its sole discretion.

C. Responsibility for Damage or Loss. The Vendor is responsible and liable for, and will promptly and without charge to the Village, repair or replace damage done to and any loss or injury suffered by the Village as a result of a failure to perform hereunder.

D. Delivery. The Vendor price and method of delivery are F.O.B. Customer Site, on or before ***June 1, 2028*** ("**Delivery Date**"), at the Delivery Address ("**Delivery**"), provided that Village produces all additions or changes to the Truck by all reasonable deadlines established by the Vendor. Time is of the essence on all matters related to this Agreement. If Delivery is not completed by the Delivery Date, the Village may terminate this Agreement or purchase the Truck elsewhere and hold Vendor accountable. If the Delivery Date cannot be met, Vendor agrees to advise the Vendor in writing of the earliest possible date of Delivery. The Vendor bears all risk of loss, injury, or destruction of the Truck until Acceptance by the Village, as defined in this Agreement. No loss, injury, or destruction of the Truck will release Vendor from any obligations hereunder.

E. Inspection; Testing; Acceptance; Rejection. The Village may inspect the Truck and any stage of production and after completion, before and after Delivery. If after inspecting the Truck following Delivery, the Village determines that all of the Specifications are met, the Village will provide Vendor with a written confirmation of its acceptance of the Truck ("**Acceptance**"). If after inspecting the Truck following Delivery the Village determines, in its sole judgment, that any part of the Truck is defective, damaged, or otherwise fails to conform to the Specifications and requirements of this Agreement, then the Village, without limiting its other rights or remedies, may (1) reject the defective or damage or nonconforming product, Component, or the entire Truck, (2) require the Vendor to cause the defective or damaged or noncompliant product or Component to be repaired or replaced at no expense to the Village, or (3) cancel this Agreement.

2. Agreement Price.

A. Notice of Price. The Parties recognize that due to the long lead time required to place the order for the Truck, Vendor cannot provide a firm quote for the Truck at the time of execution of this Agreement. Therefore, at least 18 months prior to the commencement of manufacture of the Truck, Vendor shall provide written notice to the Village (the ***"Notice of Price"***) of the price for the Truck (the "**Agreement Price**"), which Agreement price Vendor shall hold firm for no less than 45 days after receipt of the Notice of Price by the Village. Within 45 days of receipt of the Notice of Price, the Village, in its sole and absolute discretion, may accept the Agreement Price or terminate this Agreement.

B. Taxes. All other applicable federal, State, and local taxes of every kind and nature applicable to the Truck are included in the Agreement Price.

C. Time of Payment. The Village must pay the Agreement Price to the Vendor within 30 days after Acceptance ("**Time of Payment**").

D. Late Payment. The Village must pay Vendor interest in the amount of one-half percent per month for any portion of the Agreement Price paid after the Time of Payment.

3. Agreement Time.

The Vendor will complete the Services and affect Delivery of the Truck to the Village by the Delivery Date.

4. Termination for Convenience.

The Village may terminate this Agreement for any reason or no reason at all, by providing written notice to the Vendor, and paying a portion of the Agreement Price and Vendor's costs, if any, pursuant the following schedule:

A. If the Village terminates the Agreement on or before December 31, 2026, the Village will not be required to pay the Agreement Price and will be fully relieved of all liability for any payments related to this Agreement.

B. If the Village terminates the Agreement on or before May 1, 2027, the Village will be required to pay 10 percent of the Agreement Price plus any unrecoverable costs incurred by the Vendor pursuant to this Agreement between the Effective Date and the termination date.

C. If the Village terminates the Agreement within six months to the Delivery Date, the Village will be required to pay the lesser of the any costs incurred by the Vendor or full Agreement Price unless the termination was caused by Vendor's breach of this Agreement or Contractor's indication that it will breach this Agreement.

D. If the Vendor does not affect Delivery of the Truck by the Delivery Date and the Village terminates the Agreement after December 31, 2028, the Village will not be required by pay the Agreement Price and will be fully relieved of all liability for any other payments related to this Agreement.

5. Indemnification; Penalties.

A. Indemnification. The Vendor agrees to and will indemnify and defend the Village against all damages, liability, claims, actions, losses, and expenses (including attorneys' fees) that may arise or be alleged to have arisen out of or in connection with the Vendor's performance of or failure to perform under this Agreement. The Vendor also agrees to and will indemnify and defend the Village against all claims and actions for wrongful use of patented processes, devices, components, or other elements or any other intellectual property.

B. Penalties. The Vendor will be liable for all fines and civil penalties that are imposed by any governmental or quasi-governmental agency or body that may arise or be alleged to have arisen out of or in connection with the Vendor's performance of or failure to perform under the this Agreement.

5. Insurance.

The Vendor must acquire and maintain, until delivery and Village acceptance of the Truck, all of the insurance coverage and terms stated in the Quote or the Village Addenda. The Vendor must file certificates of insurance with the Village reflecting all of the required insurance coverage and naming and endorsing the Village as an additional insured.

6. Performance Bond.

Within five days after the Effective Date, the Vendor will provide the Village a performance bond in a form satisfactory to the Village and in the amount of the Agreement Price, issued by a surety company listed as one of the U.S. Treasury Department's list of approved sureties, as published in Circular 570, as of the Effective Date. Notwithstanding any other provision of this Agreement, the performance bond will not limit or affect in any way (1) any Vendor obligation or warranty as set out in the Quote, Village Addenda, or elsewhere, (2) any third party warranty, or (3) any Village right or remedy under this Agreement.

7. Vendor's Representations and Warranties.

A. Truck Warranty. The Vendor warrants that the Truck and all of its components:

(1) Will be free from any latent or patent defects and flaws in workmanship, materials, design, and function (collectively a "**Defect**") for at least one year after Acceptance by the Village except for the following Components, which shall be subject to the following warranty periods:
   i. Parts: One year following Acceptance;
   ii, Labor: One year following Acceptance.

iii. Travel Charges: 90 days following Acceptance.
iv. Structural integrity of the booms, boom articulation links, hydraulic cylinder structures, outrigger weldments, pedestals, subbases and turntables: as long as the Village owns the Truck.
v. Vendor's standard limited warranty for all Vendor-supplied Components which make up the Truck and its installation, but not for the chassis.

(2) Will conform to the requirements of the Quote, including the Specifications and the performance standards set forth in this Agreement.

(3) Will be fit, sufficient, and suitable for the purposes expressed in or reasonably inferred from the Specifications.

In the event of a Defect, the Vendor will cause the Defect to be repaired or replaced at no cost to the Village, including without limitation transportation costs. The warranties expressed herein will be in addition to any other warranties applicable to the Components (including any third-party manufacturer's warranties) or expressed or implied by law which are hereby reserved unto the Village.

This warranty does not apply (a) to normal maintenance and adjustments, (b) if the defect or flaw has been repaired or altered by the Village or a third party in any way so that adversely affected the Truck, (c) if the Truck has been subject to misuse, neglect, or accident, or has been operated at speeds exceeding the factory-rated speed, or has been loaded beyond the factory-rated load capacity, and (d) to the chassis and associated equipment furnished with the chassis, signaling devices, generators, batteries, and other trade accessories but only to the extent that they are warranted separately by a third-party Vendor.

B. Compliance with Laws. The Truck and each of its components and equipment will comply with, and the Vendor agrees to be bound by, all applicable federal, state, and local laws, orders, rules, and regulations. Every provision required by law to be inserted into the Agreement is deemed to be inserted herein.

C. Not Barred. The Vendor is not barred by law from contracting with the Village or with any other unit of state or local government as a result of (1) a delinquency in the payment of any tax administered by the Illinois Department of Revenue unless the Vendor is contesting, in accordance with the procedures established by the appropriate revenue act, its liability for the tax or the amount of the tax as set forth in 65 ILCS 5/11-42.1-1, (2) a violation of either Section 33E-3 or Section 33E-4 of Article 33 of the Criminal Code of 1961, 720 ILCS 5/33E-1 *et seq.*, or (3) for any other reason.

D. Qualified. The Vendor has the requisite experience, ability, inventory, capital, facilities, equipment, plant, organization, and staff to enable the Vendor to deliver the Truck at the Agreement Price and by the Delivery Date set forth above.

8. Acknowledgments.

The Vendor and Village acknowledge and agree that:

A. Reliance. The Village is relying on all warranties, representations, and statements made by the Vendor in this Agreement, including the Quote.

B. Remedies. Each of the rights and remedies reserved to the Village in this Agreement are cumulative and additional to any other or further remedies provided in law or equity or in the Agreement.

C. Time; Days. Time is of the essence for Delivery of the Truck.

D. Notices. Notices shall be deemed properly given hereunder if in writing and either hand delivered or sent by United States certified mail, return receipt requested, postage prepaid, or by email transmission with the sending Party retaining confirmation of receipt, to the Parties at their respective addresses provided below, or as either Party may otherwise direct in writing to the other Party from time to time:

If to Village: Village of Winnetka
Attn: Kristin Kazenas
510 Green bay Road
Winnetka, IL 60093
Email: kkazenas@winnetka.org

If to Vendor: Altec Industries, Inc.
Attn: Ms. Toni Tribby
5201 W 84th Street
Indianapolis, IN 46268
Email: toni.tribby@altec.com

Notices personally delivered shall be deemed given on the date of delivery, notices sent by certified mail shall be deemed delivered the second business day following deposit in the mail, and notices sent by email transmission shall be deemed given on the date of transmission if sent on or before 5:00 PM on a business day, or, if later, the next business day.

E. No Waiver. No examination, inspection, investigation, test, measurement, review, determination, decision, certificate, or approval by the Village, whether before or after the Village's acceptance of the Truck; nor any information or data supplied by the Village; nor any payment for or acceptance, possession, or use of the Truck; nor any extension of time granted by the Village; nor any delay by the Village in exercising any right under the this Agreement; nor any other act or omission of the Village will constitute or be deemed or construed to be an acceptance of any defective, damaged, or nonconforming product or Component; nor operate to waive or otherwise diminish the effect of any representation or warranty made by the Vendor or of any requirement or provision of this Agreement or of any remedy, power, or right of the Village.

F. Assignment. Neither the this Agreement, nor any interest herein, may be assigned or subcontracted in whole or in part by the Vendor except with the prior written consent of the Village.

G. Governing Law. This Agreement and all rights of the parties under this Agreement will interpreted according to the laws of, but not the conflict of law rules of, the State of Illinois.

H. Informative Exhibit. Exhibit A is included as an informative document with the sole purpose of providing additional context and detail with regards to the Components. All other sections and provisions of Exhibit A including will neither govern nor inform any interpretation, subject matter, rights, or duties provided in this Agreement. The terms and provisions of this Agreement, other than Exhibit A, provide all mandatory rules governing the Services, Specifications, Components, and Delivery under this Agreement.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Village and Vendor have executed this Agreement on the dates set forth below, effective as of the date first set forth above.

VILLAGE:
VILLAGE OF WINNETKA

By: _____

Printed name: _____

Title: _____

VENDOR:
ALTEC INDUSTRIES, INC.

By: [redacted]

Printed name: Toni Trubby

Title: Account Manager

EXHIBIT A

Quote

[see attached pages]

EXHIBIT B

Village Addenda

NONE

ATTACHMENT 2

Altec Industries, Inc.

Quote Number:
Opportunity Number:
Sourcewell Contract #: 110421-ALT
Date:

Quoted for:
Altec Account Manager:

REFERENCE ALTEC MODEL		Sourcewell Price
DH50	50' Fully Hydraulic derrick, rear mount	$329,955

(A.) SOURCEWELL OPTIONS ON CONTRACT (Unit)

1	DH50-E	50' Electric / Hydraulic Derrick, Rear Mount (DH50E)	$5,451
2			
3			
4			

(A1.) SOURCEWELL OPTIONS ON CONTRACT (General)

1	RADIO	RADIO REMOTE CONTROLS (Required with Platfrom)	$16,414
2	BOSL	Boom Out of Stow Indicator for Lower Boom	$385
3	RBS	Rubber Belted Step	$546
4	POP1	Plastic Outrigger Pad, 24" x 24" x 1" (Pair)	$597
5	CH	Cone Holder, Fold Over Post Style	$415
6	SPOT3	FOUR (4) POINT STROBE SYSTEM (LED)	$843
7	DLB2	Directional Light Bar (Amber, 47"L, Super-LED)	$2,254
8	FLOOD	Flood Light (Hella #H71030401)	$377
9	SPOT6	Remote Spot Light, LED, Permanent Mount, With Wireless Dash Mounted Controls And Programmable Wireless Remote	$1,066
10	VCAM	Backup Camera System	$1,313
11	PSWI2	Inverter with minimum 3000W 120V @ 25A pure sine wave output, hardwired to outlets and 12VDC input.	$3,766
12	PTO-HM	PTO Hour Meter Digital with 10,000 Hour Display	$182
	VRI	120 Volt GFCI Receptacle, Includes Weather-Resistant Enclosure	$365
		SOURCEWELL OPTIONS TOTAL:	$363,930

(B.) **OPEN MARKET ITEMS** *(Customer Requested)*

1	UNIT	Dh48 ILO DH50H, Opti-view control seat, Neck Strap for remote, Rotafloat system, Zone Rating, Custom Unit color, and Boom out stow indicator	$7,423
2	UNIT & HYDRAULIC ACC	Subbase stop at 10ft, Subbase side Tube storage stop, Long tool storage in rear pedestal, Hydraulic oil cooler, Hydraulic Capstan, Tiiger pole puller and brackets	$18,955
3	BODY	Custom fiberglass body with accessories	$19,603
4	BODY & CHASSIS ACC	Eyebolts, Cabe Step, Compartment top acess step, Plastic outriger pad, oversized pad holders, Wire reel storage bracket, and D-rings for mounting on outriggers	$3,308
5	ELECTRICAL	Perimeter/underbody lights, Flood/Spot lights, Inverter Wired battery hot, and Cab interior light	$29,447
6	FINISHING	Custom paint, and non-skid coating on top of boxes	$1,595
7	CHASSIS	Village of Winnetka specd chassis	$5,839
8	OTHER		$0
		OPEN MARKET OPTIONS TOTAL:	$86,170

SUB-TOTAL FOR UNIT/BODY/CHASSIS:	**$450,100.00**
Delivery to Customer:	**$2,829.00**
Estimated Taxes (Delivery non-taxable):	
FET:	
CA Doc/Admin/Tire Fees:	
Extended Warranty:	
TOTAL FOR UNIT/BODY/CHASSIS:	**$452,929.00**

(C.) **ADDITIONAL ITEMS** (items are not included in total above)

1			
2			
3			
4			

Pricing valid for 45 days

NOTES

PRICING: Altec will make every effort to honor this quotation, subject to the following provisions. Prices for equipment with production start dates 12 months and beyond are considered budgetary due to potential cost inflation, market volatility, and tariff implications. These prices will be reviewed based on market conditions and confirmed closer to the production date. Quotes and orders with chassis model years beyond the current open order bank are estimates only. Altec's turn-key pricing is subject to change based on chassis pricing received from the OEM. Chassis model year, specifications, and price will be reviewed and confirmed when specific model year information becomes available from the OEM, and any chassis price difference, including adjustments for tariffs, will be passed through to the customer.

PAINT COLOR: White to match chassis, unless otherwise specified
WARRANTY: Standard Altec Warranty for Aerials and Derricks - One (1) year parts warranty One (1) year labor warranty Ninety (90) days
TO ORDER: To order, please contact the Altec Account Manager listed above.
CHASSIS: Per Altec Commercial Standard
DELIVERY: TBD Based on availability, FOB Customer Location
TERMS: Net 30 days
BEST VALUE: Altec boasts the following "Best Value" features: Altec ISO Grip Controls for Extra Protection, Only Lifetime Warranty on Structural Components in Industry, Largest Service Network in Industry (Domestic and Overseas), Altec SENTRY Web/CD Based Training, Dedicated/Direct Gov't Sales Manager, In-Service Training with Every Order.
TRADE-IN: Please ask your Altec Account Manager for more information

January 29, 2026
Our 97th Year

Ship To:
VILLAGE OF WINNETKA
ALTEC INDIANA SERVICE CENTER
5201 W 84TH ST
INDIANAPOLIS, IN 46268
US

Attn: NICK NARHI
Phone: 847-7163553
Email: nnarhi@winnetka.org

Bill To:
VILLAGE OF WINNETKA
510 GREEN BAY ROAD
WINNETKA, IL 60093
United States

Altec Quotation Number: 1956916 - 3
Account Manager: Toni L Tribby
Technical Sales Rep: Dylan Green

Item	Description	Qty
	Unit	
1.	ALTEC Model DH48E Hydraulic Derrick, built in accordance with Altec standard specifications and to include the following features:	1

- **A.** Maximum Sheave Height: 48.5 ft
- **B.** Maximum Horizontal Reach : 38.9 ft
- **C.** Maximum Digging Radius: 27.6 ft
- **D.** Articulation: 80 degrees above horizontal to 20 degrees below horizontal
- **E.** Winch: 15,000 pound bare drum capacity turntable winch with 8.625 diameter drum to comply with ANSI 10.31 Section 4.10.4 for synthetic rope or 15,000 pound bare drum capacity boom tip winch. High torque hydraulic motor drives a self-locking worm gear winch. Counterbalance valves on motor provide reliable load holding
- **F.** Insulated: 46 kV and below
- **G.** Hydraulic Overload Protection System: activates when unit is exposed to overload condition. System prevents actuation of all functions that could add to the overload condition including: -Boom Lower -Intermediate Boom Extend -Third Stage Boom Extend -Winch Raise -Auger Dig System automatically resets when overload condition is relieved.
- **H.** Load Indicator Gauge: located at the main control panel, displays the percentage of total allowable lifting capacity being utilized. By use of this gauge, the operator is aware of the hydraulic and structural design rating of the derrick and proximity to the limits during operation.
- **I.** Hydraulic Side Load Protection: relieves overload conditions by allowing rotation system to back drive.
- **J.** Continuous rotation including planetary drive rotation gearbox. With booms horizontal and fully extended, unit is able to rotate a 500 lbs load on winch line at boom tip up a 5 degree slope.
- **K.** Electronic CAN Controls: Intuitive electronic controls with superior metering. Includes a diagnostic port which by connecting a handheld service tool, provides troubleshooting code readouts and the ability to calibrate function speeds and control sensitivity. Electric controls eliminate the risk of high pressure hose leaks near the operator and leak points are minimized throughout the machine.

Item	Description	Qty
L.	Indicator Light Panel at Control Station(s): indicators for hot oil, change hydraulic oil filter, Rotafloat active (if equipped), and check system light with diagnostic capabilities	
M.	Proportional Hydraulic Control System: Closed Center Hydraulic control valve for boom, winch, digger and pole guide functions are operated and controlled by electro-proportional pressure reducing valves which provides full metering and feathering characteristics.	
N.	Manual override of electronically controlled boom, winch, and digger functions at the main control valve	
O.	Standard/Low Speed Selector: Operator can select standard or low function speed operation. When in standard mode, each function operates at normal speeds. When in low speed, the maximum operational speed of each function is slower providing finer feathering capability. The function is separate from engine throttle control.	
P.	Remote Control Retrofitable: Control system includes single quick connect plug for quick and easy installation of radio remote control system in the field upon request (if not already equipped).	
Q.	Hydraulic System: Closed Center hydraulic system with maximum flow of 50 gpm for simultaneous operation of multiple functions. Flow is provided by a variable displacement, pressure compensated, piston pump. This 'flow on demand' system optimizes the overall system efficiency. System is designed with compensators in each valve section for smooth transitions between functions. Maximum system pressure is 3000 psi. Because flow is provided by a single source (piston pump), maximum flow is available to any combination of functions including simultaneous operation of the boom and digger/winch functions and flow combining is not necessary.	
R.	System pressure gauges mounted on main control stations.	
S.	Passive zone rating system with visual light indicators to show instability of unit (only when mounted on single axle chassis)	
T.	Transferable Hydraulic Pole Guides and Steel Boom Flares at the boom tip with adjustable alignment guides. Pole guides are hydraulically powered and proportional for open, close, and tilt which provides superior performance.	
U.	Pole Guide Tilt Interlock: Prevents the upper boom from extending when the transferrable guides are attached to the intermediate boom until the proximity sensors detect that the guides are tilted all the way up and out of the way.	
V.	Fiberglass Boom Tip with provisions for platform attachment.	
W.	Two-part load line attachment point on intermediate boom.	
X.	Full capacity fiberglass upper boom is round and is fabricated using a Centrifically Cast process that provides a smooth surface finish inside and out that is easy to clean and is highly resistant to damage.	
Y.	Boom Stow Protection System: A proximity switch on main boom detects the boom support as the boom is being stored and limits the boom down function to avoid excessive down force into the stow.	
Z.	Auger Stow Protection: Limits the upward travel of the auger as it reaches the top of the auger stow latch to prevent an overstow condition.	
AA.	Outrigger/Boom Interlock System: Prevents boom from being unstowed until outriggers have been at least partially deployed.	
AB.	Back-up Alarm, installed	
AC.	Manuals: Two (2) Operator's and Maintenance/Parts Manuals. One(1) in printed format and one(1) in electronic format available at connect.altec.com containing instructional markings indicating hazards inherent in the operation of an aerial device	
AD.	Painted white with Altec Powder Coat Paint Process which provides a finish-painted surface that is highly resistant to chipping, scratching, abrasion and	

Item	Description	Qty
	corrosion. Paint is electro-statically applied to the inside as well as outside of all fabricated parts then high temperature cured prior to assembly ensuring maximum coverage and protection. **AE.** Unit meets or exceeds ANSI 10.31-2006. Unit serial number placard clearly states compliance. **AF.** Unit is designed and manufactured in facilities that are certified to meet ISO 9001 requirements.	
2.	Electric-Hydraulic Control System: Closed Center hydraulic system with maximum flow of 50 gpm for simultaneous operation of multiple functions **A.** Flow is provided by a variable displacement, pressure compensated, piston pump. **B.** This 'flow on demand' system optimizes the overall system efficiency. **C.** System is designed with compensators in each valve section for smooth transitions between functions. **D.** Maximum system pressure is 3000 psi. **E.** Because flow is provided by a single source (piston pump), maximum flow is available to any combination of functions including simultaneous operation of the boom and digger/winch functions and flow combining is not necessary.	1
3.	Rear Mount Over Rear Axle for DH	1
4.	173 - Rear Mount Altec Opti-View Control Seat, installed on curb side of turntable, includes twin multi-function joystick controls and foot throttle.	1
5.	Three position throttle integrated into keypad at operator control station.	1
6.	No hard wired upper controls and NO TOOL CIRCUIT at boom tip	1
7.	Large Interface Radio Remote (Scanreco)	1
8.	Neck Strap for Large Interface Radio Remote Controls	1
9.	Audible HOP Indicator	1
10.	8 - Turntable Winch	1
11.	11 - Normal winch speed (15,000 lbs)	1
12.	94 - Digger, Two-Speed Mechanical Shift, 12,000 ft-lbs, includes all of the components necessary to operate digger, installed	1
13.	2.50 in Hex Output Shaft With 2.50 in Hex Extension Shaft	1
14.	88 - Digger - right-hand storage, viewing from boom tip - streetside for rear and corner mount, curbside for behind cab mount - normal. Includes Auger Overstow Protection System	1
15.	Dedicated digger shake command that provides rapid dig/clean reversing function for quick and convenient auger cleaning.	1
16.	175 - ANSI use criteria, Digger Derrick use only (no Personnel Handling)	1
17.	Standard Pole Guides for 18.00 in Dia Pole Maximum	1

Item	Description	Qty
18.	No Derrick Tong Protectors	1
19.	Hydraulic Side Load Protection: relieves overload conditions by allowing rotation system to back drive.	1
20.	134 - Altec RotaFloatTM System. Activating this switch while digging frees the booms to rotate, thus eliminating one of the many functions needed to install screw anchors. Includes alarm and visual indicator	1
21.	Zone Rating System	1
22.	Electric Over Hydraulic Outrigger Controls	1
23.	450 - Outriggers, A-frame, folding shoe, 153 maximum spread, for use as auxiliary outriggers on all units or primary outriggers on select units	1
24.	450 - Outriggers, A-frame, folding shoe, 153 maximum spread, for use as auxiliary outriggers on all units or primary outriggers on select units, includes: **A.** Maximum Spread: 153 inches measured from centerline of shoe pins **B.** Penetration at maximum extension: 6.5 inches (for standard installation on a 40 inch frame height) **C.** Standard Shoe Dimensions: 14 x 15.25 inches **D.** Hydraulic Outrigger Control Valves **E.** Outrigger/Unit Selector Control: Reduces the potential for inadvertent outrigger movement during machine operation if outrigger controls are bumped. **F.** Outrigger motion alarms **G.** Outrigger Interlocks: Will not allow the unit to be operated until the outriggers have been at least partially deployed.	1
25.	Custom unit color (specify color code). L0933EY Yellow Elite EY	1
26.	999 - Boom Out of Stow Indicator	1
27.	Additional Unit Option Flood light mounted CS of Base boom -To shine towards boom tip -Switch to be installed at riding seat (option removed if riding seat not present)	1
28.	999 - Boom Out of Stow Indicator For Lower Boom	1
	Unit & Hydraulic Acc.	
29.	Dirt Auger 18 Inch DIA With 2-1/2 In Hex X 104 Inch L Single Flight (Painted Black)	1
30.	Winch Rope For Turntable Winch 130 Ft Long x 1 Inch Dia	1
31.	Load Line Swivel Hook 8-1/2 In Ton	1
32.	DH Series Derrick Subbase (Rigid)	1
33.	Subbase Blocks	1

Item	Description	Qty
34.	Insert Subbase Stop At 10 Ft	1
35.	Insert Subbase Side Tube Storage Stop for Both Tubes At 10 Ft	1
36.	Long Tool Storage in Rear Pedestal	1
37.	Hydraulic Oil Cooler , Dual Fan	1
	Install boomstow uprights	
38.	80 Gallon Reservoir, Sight/Temperature Gauge, No Oil Heater	1
	Locate in Cargo area (line body only)	
39.	Hydraulic Oil, HVI-22 with Ultraviolet Dye (Standard)	100
40.	Pump - Right-Hand Rotation 95CC Pressure Compensated (Automatic Transmission)	1
41.	Muncie PTO	1
42.	Hot Shift PTO (for Automatic Transmission)	1
43.	Altec PTO/Transmission Functionality with Winch Recovery for Allison Automatic Transmissions: -Once the PTO switch is on and transmission is in first, neutral, or reverse the PTO will engage. -Once the Parking Brake is engaged and the transmission is in a near stationary condition (i.e., below 5 mph) the transmission will be forced into neutral. -PTO will disengage when RPM limits are exceeded (chassis speed of approximately 5 mph).	1
44.	Standard Parking Brake Machine Interlock: Parking (holding) brake must be set before machine is operable.	1
45.	Hydraulic Capstan Custom Option 1	1
	Include capstan on intermediate boom	
46.	Altec recommends any connection made to the tool circuit be done with Non-Conductive hose. If ordering a Hose reel, Altec recommends ordering a hose reel with Non-Conductive hose. The lower tool circuit hoses may be, or become, conductive. Death or serious injury could occur if the unit becomes energized while lower tool circuit is in use.	1
47.	Install Tool Circuit For Hose Reel Below Rotation (Male Pressure, Female Return)	1
48.	50 Ft Non-Conductive Hose Kit, Orange, Includes Quick Disconnects And Dust Caps (Male Pressure, Female Return) (Industry Preferred)	1
49.	Hydraulic Pole Puller Custom Option 1	1
	- Located on CS Outrigger - Must be compatible to hold Tiiger Pole Puller and Altec Standard Pole Puller	
50.	Hydraulic Pole Puller Custom Option 2	1

Item	Description	Qty
	Hydraulic Pole Puller - Tiiger Pole Puller	
51.	Hydraulic Hose Reel, Spring Loaded, Hannay N616 Series, 50 Ft Hose Capacity (Standard) (Cannot Be Mounted Horizontally)	1
	CS rear facing	
52.	Flow Divider, Optional for Variable Tool Control - for installation of tools at tailshelf	1
53.	Unit Installation Components.	1
	Body	
54.	Altec Body	1
55.	Steel Body	1
56.	Body Is To Be Built In Accordance With The Following Altec Standard Specifications: **A.** Basic Body Fabricated From A40 Grade 100% Zinc Alloy Coated Steel. **B.** All Doors Are Full, Double Paneled, Self-Sealed With Built-In Drainage For Maximum Weather-Tightness. Stainless Steel Hinge Rods Extend Full Length Of Door. **C.** Heavy-Gauge Welded Steel Frame Construction. **D.** Integrated Door Header Drip Rail At Top For Maximum Weather Protection. **E.** Fender Panels Are Either Roll Formed Or Have Neoprene Fenderettes Mechanically Fastened. **F.** Steel Treated For Improved Primer Bond And Rust Resistance. **G.** Automotive Type Non-Porous Door Seals Fastened To The Door Facing. **H.** B-Line Channel Installed In Compartments	1
57.	Smooth Galvanneal Steel Floor	1
58.	Bobtail Service Line With Step (BSLS)	1
59.	Finish Paint Body Custom Color (Provide Color And Code)	1
	L0933EY Yellow Elite EY	
60.	Undercoat Body	1
	L0933EY Yellow Elite EY	
61.	180" Estimated Body Length (Engineering To Determine Final Length)	1
62.	94" Body Width	1
63.	46" Body Compartment Height	1
64.	18" Body Compartment Depth	1
65.	5.5 Inch Drop-In Wood Cargo Retaining Board At Rear Of Body	1
66.	5.5 Inch Drop-In Wood Cargo Retaining Board At Top Of Side Access Step	1

Item	Description	Qty
67.	Gripstrut On Curbside Compartment Tops Rear of side access steps and forward of top mounted box	1
68.	Adhesive Strip Lighting (LED) Around Top And Sides Of Compartment Door Facings	7
69.	Stainless Steel Rotary Paddle Latches With Keyed Locks	7
70.	All Locks Keyed Alike Including Accessories (Preferred Option)	1
71.	Standard Master Body Locking System	7
72.	Gas Prop Rigid Door Holders On All Vertical Doors	1
73.	Two Chock Holders On Each Side of Body With Retaining Lip In Fender Panel Include pendulums	1
74.	Hotstick Shelf Extending From Rear Of First Vertical To Rear Of Body On Streetside	1
75.	Two Hotstick Brackets On Streetside	1
76.	Standard Drop-Down Hotstick Door For One (1) Shelf On Streetside, Stainless Steel Slam Paddle Latch With Keyed Lock	1
77.	1st Vertical (SS) - Adjustable Shelf With Removable Dividers On 4" Centers	3
78.	1st Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2
79.	1st Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	3
80.	1st Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2
81.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2
82.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	3
83.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2
84.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2
85.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	3
86.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2
87.	1st Horizontal (SS) - Fixed Shelf With Removable Dividers On 8 Inch Centers On Bottom of Compartment	1
88.	1st Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2
89.	1st Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	3
90.	1st Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2
91.	1st Vertical (CS) - Inverter Storage Inside Of Body Compartment With Guard, Louvered Panel On Rear Wall To Ventilate Compartment, And Provisions For Remote GFCI Receptacle (Mounted On Bottom Shelf Unless Otherwise Specified)	1

Item	Description	Qty
	Inlcude dridek on inverter storage	
92.	2nd Vertical (CS) - Gripstrut (Preferred) Access Steps w/ Two (2) Sloped Grab Handles, Chain Storage (Keyed Lock)	1
93.	3rd Vertical (CS) - Adjustable Shelf With Removable Dividers On 4" Centers	3
94.	1st Horizontal (CS) - Adjustable Shelf With Removable Dividers On 4" Centers	1
95.	1st Horizontal (CS) - Fixed Shelf With Removable Dividers On 4 Inch Centers On Bottom of Compartment	1
96.	D-Ring Recessed In Body Floor 360 Degree Rotation	4
	Equally spaced in cargo floor, in front of the pedestal	
97.	34" L Steel Tailshelf, Width To Match Body	1
98.	Custom Material Retainer On Tailshelf	1
	3 Inch Fixed Steel Retaining Rail On Sides -4 Inch Removable Composite At Rear Of Tailshelf (Preferred If Tailshelf Retainment Required And Rear Access)	
99.	Smooth Galvanneal Steel Tailshelf	1
100.	Steel Top Opening Storage Box, One (1) Gripstrut Lid, Gas Props, Hasp Lock, Handle Parallel To Ground And Centered (2 Handles for Boxes Greater Than 108")	1
	Approximately 86-inches long x width of compartment x 14-inches tall -Install on top of CS compartment approximately 16-inches rear of side access steps -Forward portion of box to have gripstrut lid and not come into contact with riding seat when opening -Rear portion to sit under riding seat and include seperate lid that can be opened when riding seat is rotated out of way -Include dridek in bottom of box	
101.	Steel Top Opening Storage Box, One (1) Smooth Lid, Gas Props, Hasp Lock, Handle Parallel To Ground And Centered (2 Handles for Boxes Greater Than 108")	1
	Chainsaw box installed on SS compartment top flush with front of compartments -Approximately 40-inches L x 14-inches tall x width of compartment -Vented -Include dridek in bottom of box	
102.	Steel Open Top Storage Bin, Punched Metal	1
	Approximately 112-inches L x 8-inches tall x width of compartment -Install on top of SS compartment top rear of chainsaw box	
103.	E-Track Installed On Curbside Interior Cargo Wall, Mounted As High As Possible	1
104.	E-Track Installed On Streetside Interior Cargo Wall, Mounted As High As Possible	1
105.	Additional Body Option	1

Item	Description	Qty
	Install top mounted boxes on b-line	
106.	Additional Body Option	1
	Install b-line on all compartment tops	
107.	Additional Body Option	1
	B-line to run full height of compartments in all compartments	
	Body and Chassis Accessories	
108.	Dock Bumpers (Pair), Rectangular, installed at Rear Frame Rail at the furthest point back	1
109.	Set of Safety Chain D-Rings	1
110.	Swivel Style Pintle Hitch (30,000 LB MGTW with 6,000 LB MVL), 11-Bolt T-Mount (T-125 Style)	1
111.	Underride Protection Bumper, Installed at Rear	1
	Installed at rear	
112.	Eyebolt for Trailer Breakaway Cable, 3/8 Inch	1
113.	Glad Hands at Rear Swing Away (Includes Dust Covers)	1
114.	Cable Step Installed at Rear, Double Step with Rigid Top Step	1
	Install at Streetside Rear of Tailshelf -No Access	
115.	Rubber Belted Step Mounted Beneath Side Access Steps, Steel, 24" Wide (Installed to Extend Approx. 2 inches Outward)	1
	Installed under Curbside grip strut access step	
116.	Compartment Top Access Step from Body Floor	1
	Installed in Curbside Cargo area, nearest to riding seat -If riding seat removed from build, remove this step	
117.	Pole Rack, Two Pole Capacity with Hand Ratchet Tie Binders, Removable at Rear	1
	Ratchet and D-rings to be accessible from ground	
118.	Secondary Boom Saddle for Offset Stowing of Derrick Due to Pole Rack	1
119.	Mounting Brackets for Lights, Located on Lower Boom Rest	1
120.	Lower Boom Rest	1
121.	No Platform Rest	1
122.	Plastic Outrigger Pad, 24 x 24 x 1 with Handle (Reforge/Industry Preferred)	4

Item	Description	Qty
123.	Outrigger Pads Option 1	2
	Corrosion Resistant Outrigger Pad Holder, Approximately 25 L x 25 W x 6.5 H Fits Qty 2 of a 24.5 x 24.5 x 2.5 and Smaller Pads Bolt-On Bottom -Washout Holes with 3/4 Inch Lip Retainer -CS holder to be installed under 3rd vertical -SS holder to be installed rear of perimeter light	
124.	Pendulum Retainers For Outrigger Pad Holders	2
125.	Wheel Chocks Rubber with Metal Hairpin Handle 9.75 L x 7.75 W x 5 H (Pair) (Industry Preferred)	1
126.	Mud Flaps with Altec Logo (Pair)	1
127.	Post Style Cone Holder (Holds up to four 15 x 15 large cones)	1
128.	Wire Reel Storage Bracket Option 1	1
	Install one (1) removable rod between pole rack uprights -Rod should hold 12-inch diameter reels with no interference	
129.	5 LB Fire Extinguisher with Light Duty Bracket Shipped Loose (Amerex #B402T)	1
130.	Triangular Reflector Kit (Contains 3 Reflectors), Shipped Per DEPS 042	1
131.	Slope Indicator Assembly (Pair) for Machine with Outrigger	1
132.	D-Rings for Mounting on Outriggers, Bolt on (Set of 2)	1
133.	Vinyl Manual Pouch for Storage of All Operator and Parts Manuals	1
	Electrical Accessories	
134.	Compartment Lights Wired to Dash Mounted Master Switch in Chassis Cab	1
135.	Lights And Reflectors In Accordance With FMVSS 108 (Complete LED)	1
	Backup lights integrated with tail lights	
136.	Strobe Beacon Amber LED with Brush Guard (Standard) (Tecniq #K10-AAAD-1) (Permit May Be Required) (Industry/Stock Preferred)	2
	On each side of the boom stow	
137.	4-Corner Strobes, Amber, LED, Two (2) Surface Mounted Lights In Grille, Two (2) Round Lights At Rear, Class II (Permit May Be Required)	1
138.	Strobe Lights Wired Ignition Hot	1
139.	Directional Light Bar, Amber, LED, 48 Inch L (ECCO 3400 Series)	1
	Install at rear of tailshelf with guard	
140.	Flood Light, LED, With Aluminum Housing, 4.25 W x 4.25 H, No Switch on the Light (Hella #H71030401) (Industry Preferred)	3

Item	Description	Qty
	One (1) underslung under boom stow facing rear -Two (2) underslung under tailshelf each side facing rear, to come on with switch in cab and reverse light	
141.	Perimeter/Underbody Lights LED Black (Pair)	2
	Install facing outrigger shoes when deployed -To be installed above drip rail at front and rear of body -To come on with same switch as boom stow underslung flood light	
142.	Remote Spot Light, LED, Permanent Mount, With Programmable Wireless Remote (Go-Light #30004ST)	2
	One (1) each side of boom stow, outboard of strobes	
143.	Flood/Spot Lights To Turn On With Reverse Lights And With Switch In Cab	1
	Lights under tailshelf	
144.	Dual Tone Backup Alarm With Outrigger Motion Alarm	1
145.	Altec Standard Multi-Point Grounding System	6
146.	Grounding Lug, Copper, U-Shaped, Threaded	2
	Front and Rear CS	
147.	Altec Backup Camera System, 7 Inch Color LCD Monitor, Heated Infrared Camera With Day/Night Sensor And Audio	1
	A. 7 Inch Color LCD Monitor With LED Backlighting And Proximity Indicators **B.** 2 Inputs With Independent Triggers **C.** Heated Infrared Camera With Day/Night Sensor And Audio **D.** Mirror/Normal View **E.** IP68 Rated **F.** Wide Viewing Angle (104 Degrees Horizontal x 78 Degrees Vertical) **G.** 20 Meter Cable Assembly	
148.	Install backup camera monitor on the front windshield in lieu of the rearview mirror.	1
149.	PTO Hour Meter, Digital, With 10 000 Hour Display	1
150.	Trailer Receptacle, 7-Way (Pin Type) Installed At Rear	1
	Installed at rear	
151.	Relocate Trailer Receptacle Supplied With Chassis	1
152.	Altec Standard Trailer Plug Wiring	1
153.	Electric Trailer Brake Controller	1
154.	Altec Modular Panel System (AMPS) - Includes Mounting Panel And Accessory Switches	1
155.	Inverter with Minimum 3000W, 120V @ 25A, Pure Sine Wave Output, Hardwired to	1

Item	Description	Qty
	Outlets and 12VDC Input. Features Include Surge Ratings at 9000W for 1ms, 6000W for 0.1s and 4/0 AWG 12V Wiring. -CS 1st vertical at bottom of compartment -Include dridek on inverter shelf	
156.	Inverter Wired Battery Hot with Switch in Chassis Cab	1
157.	Electrical Receptacle, 120 Volt, GFCI, Includes Weather-Resistant Enclosure One (1) above inverter shelf on right wall -One (1) in cab	2
158.	Pre-Wire Power Distribution Module 10 is a Compact Self-Contained Electronic System that Provides a Standardized Interface with the Chassis Electrical System	1
159.	Install Remote Engine Start/Stop System in Final Assembly	1
160.	Controls Installed At Tailshelf, Outrigger Controls, Includes E-Stop, E-Series Sides of light channels	1
161.	One Emergency Stop Located at Ground Level Installed at the Rear of the Vehicle	1
162.	Install Outrigger Interlock System In Final Assembly	1
163.	Cab Interior Light, LED, Dome Style, Red Or White (Specify Color Preference) Red and white	1
164.	Boom Out Of Stow Indicator With Magnetic Proximity Switch. Proximity switch installed on the boom rest. Indicator light installed in the chassis cab to illuminate when the unit is out of the rest.	1
165.	PTO Indicator Light, Installed In Cab	1
166.	Install Altec Telematics Control Unit (TCU) (Domestic and Carrier-Neutral), Includes In-Cab Antenna	1
167.	Foot Throttle Assembly	1
	Finishing Details	
168.	Front and Rear Frame Mounted and Under Body Mounted Components (With the Exception of Rust Resistant Components) Will Be Painted Black DEPS 005 DEPS 095 (Includes Non OEM Front Bumpers and Cabguards)	1
169.	Finish Paint Body Accessories Custom Color (Specify Color Code) L0933EY Yellow Elite EY	1
170.	Apply Non-Skid Coating (Black) to All Walking Surfaces DEPS 057 Top of boxes, top of tailshelf -Do not need to apply cargo coating on tailshelf light channel, on gripstrut or underneath gripstrut	1

Item	Description	Qty
171.	Placard, Engine Block Heater	1
172.	Safety and Instructional Decals English	1
173.	Vehicle Height Placard Installed In Cab DEPS 002	1
174.	HVI-22 Hydraulic Oil Placard	1
175.	Dielectric Test Unit According to ANSI Requirements	1
176.	Stability Test Unit According to ANSI Requirements	1
177.	Focus Factory Build	1
178.	Delivery Of Completed Unit	1
179.	As Built Electrical and Hydraulic Schematics to be Included In the Manual Pouch (Deps 024)	1
180.	Completed Test Forms To Be Included In The Manual Pouch: -Stability Test Form -Dielectric Test Form (For Insulated Units)	1
	Chassis	
181.	Altec Supplied Chassis	1
182.	Chassis	1
183.	Freightliner Code 549-093: 8 Inch Bolt on Front Frame Extension	1
184.	2028 Model Year	1
185.	Freightliner M2-106 Plus	1
186.	Dual Rear Wheel	1
187.	Set Back Axle	1
188.	4x2	1
189.	Chassis Cab	1
190.	Regular Cab	1
191.	Other Chassis Color L0933EY Yellow Elite EY	1
192.	Front Frame Extensions	1
193.	Air Horn Under Cab	1
194.	AM/FM Radio	1

Item	Description	Qty
195.	Bluetooth	1
196.	Block Heater	1
197.	Driver Controlled Locking Differential	1
198.	Glad Hands, Hoses And Connections (Supplied By Chassis OEM)	1
199.	Trailer Air Brake Package	1
200.	Cruise Control	1
201.	Air Conditioning	1
202.	Power Door Locks	1
203.	Power Windows	1
204.	Tachometer	1
205.	Tilt Steering Wheel	1
206.	138 Clear CA (Round To Next Whole Number)	1
207.	Chassis Wheelbase Length - 204 inch	1
208.	GVWR 39,000 LBS	1
209.	16,000 LBS Front GAWR	1
210.	23,000 LBS Rear GAWR	1
211.	Freightliner - Crossmember Flush With Back Of Cab (561-001)	1
212.	Spring Suspension	1
213.	Cummins X10	1
214.	Diesel	1
215.	330 HP Engine Rating	1
216.	Allison 3500 RDS Automatic Transmission (Left and Right Side PTO Openings Only)	1
217.	204-215 Freightliner 50 Gallon Fuel Tank (Left Hand Under Cab)	1
218.	23U-001, 43X-002 Freightliner 6 Gallon DEF Tank (Under Cab Left Hand)	1
219.	016-1C2 - Freightliner Vertical Exhaust (Right-Horizontal-Under Cab-Vertical)	1
220.	No CARB Clean Idle Certification Required	1
221.	EPA Clean Idle Certification	1
222.	EPA Emissions	1
223.	Chassis Idle Engine Shut-Down Required	1

Item	Description	Qty
224.	385/65R22.5 Front Tire	1
225.	11R22.5 Rear Tire	1
226.	Air Brakes	1
227.	Park Brake In Rear Wheels	1
228.	Single Alternator (320 amp Minimum)	1
229.	Battery Under Cab Left Hand	1
230.	Freightliner - Clear Area Around Allison PTO Openings (362-824) and (363-011)	1
231.	Freightliner - Clear Frame Rails From Back Of Cab To Front Rear Suspension Bracket (607-001)	1
232.	Freightliner - Electric Brake Controller Wiring With Combined Stop/Turn Signal Heavy Duty Tail Light Wiring At EOF (296-027)	1
233.	Freightliner - Radiator (1100 Square Inch) for ISL/L9 or DD8.2 (DS) (266-013)	1
234.	Freightliner - Rear Cab Crossmember Flush With Back Of Cab (561-010)	1
235.	Freightliner DEF Pump Mounting (23Y-001)	1
236.	Freightliner Duel Leveling with Blocking Feature (910-025)	1
237.	Freightliner Engine & Transmission Remote Interface at Powertrain Interface Connector (163-014) (34C-011) (79W-003)	1
238.	Freightliner Powertrain Interface Connector Between Seats without Cap (48H-012)	1
239.	Freightliner Accelerator Control (Remote Speeds) (148-073)	1
240.	Freightliner Transmission Dipstick Tube Enters Curbside of Transmission (346-013)	1
241.	Freightliner Vertical Exhaust With Minimum Protrusion Above Cab (239-200)	1
242.	Freightliner - Rear Cross Member Delete (572-063)	1
243.	Freightliner - Pre-Wire Chassis with Cab Backwall Pass-Thru (33U-001)	1
244.	Vinyl Bucket Seat	1
245.	Air Ride Drivers Seat	1
246.	Air Ride Passenger Seat	1

Additional Pricing

247.	Standard Altec Warranty: One (1) year parts warranty, one (1) year labor warranty, ninety (90) days warranty for travel charges, limited lifetime structural warranty	1
248.	Federal Excise Tax Item: If provided, Quote subtotal is an Estimate only. Final	1

Item	Description	Qty
	determined at invoicing.	
	Miscellaneous	
249.	Non-CARB Registered State	1
250.	Ext Warranty, Travel, Labor, Material and Expense, 5 Year Total (4 Year Extended), Category 5	1
251.	Altec Insights for E-Series Derricks: Lifetime access to Altec Insights, which provides safety and performance insights for E-Series Derrick models. This content is managed and delivered through your Altec Connect account and includes options for email and text message notifications. Access is for the first owner, non-transferrable, and non-refundable. Terms and exclusions apply (e.g., Terms and Conditions, and Warranty).	1

Altec Industries, Inc.

BY

Dylan Green

Notes:

1 Altec will make every effort to honor this quotation, subject to the following provisions. Prices for equipment with production start dates 12 months and beyond are budgetary only due to irregular cost inflation and market volatility. These prices will be reviewed based on market conditions and confirmed closer to the production date.

For a quoted chassis model year beyond the current open order bank, chassis model year, specifications and price should be considered estimates only and subject to change. Chassis model year, specifications and price will be reviewed and confirmed when specific model year information becomes available from the OEM.

2 Estimated Delivery: #DELIVERY_MONTHS# months after receipt of order PROVIDING:
A. Customer supplied chassis (if applicable) is received a minimum of sixty (60) days before scheduled delivery.
B. Customer approval drawings are returned by requested date.
C. Customer supplied accessories are received by date necessary for compliance with scheduled delivery.
D. Customer expectations are accurately captured prior to major components being ordered (body, chassis) and line set date. Unexpected additions or changes made after this time or at a customer inspection will delay the delivery of the vehicle.

Estimated Delivery is based on information at time of quote and is subject to change.

Altec reserves the right to change suppliers in order to meet customer delivery requirements, unless specifically identified, by the customer, during the quote and or ordering process.

3 This quotation is valid until #EXPIRE_DATE#. After this date, please contact Altec Industries, Inc. for a

possible extension.

4 F.O.B. - #FOB_TERMS#

5 Interest charge of 1/2% per month to be added for late payment.

6 FINANCING AVAILABLE: Please contact Altec Capital at (888) 408-8148 or email finance@altec.com for more information.

7 Price does not reflect any local, state or Federal Excise Taxes (F.E.T). The quote also does not reflect any local title or licensing fees. All appropriate taxes will be added to the final price in accordance with regulations in effect at time of invoicing.

8 Changes made to this order may affect whether or not this vehicle is subject to F.E.T. A review will be made at the time of invoicing and any applicable F.E.T. will be added to the invoice amount.

9 Any payment made by a credit card may be subject to a surcharge fee.

10 Altec Standard Warranty:

One (1) year parts warranty.

One (1) year labor warranty.

Ninety (90) days warranty for travel charges.

Warranty on structural integrity of the following major components is to be warranted for so long as the initial purchaser owns the product: Booms, boom articulation links, hydraulic cylinder structures, outrigger weldments, pedestals, subbases and turntables.

Altec is to supply a self-directed, computer based training (CBT) program. This program will provide basic instruction in the safe operation of this aerial device. This program will also include and explain ANSI and OSHA requirements related to the proper use and operation of this unit.

Altec offers its standard limited warranty with the Altec supplied components which make up the Altec Unit and its installation, but expressly disclaims any and all warranties, liabilities, and responsibilities, including any implied warranties of fitness for a particular purpose and merchantability, for any customer supplied parts

Altec designs and manufactures to applicable Federal Motor Vehicle Safety and DOT standards

11 Altec Extended Warranty Option:

An Altec Extended Warranty is an extension of Altec's Limited Warranty and protects you from the repair cost associated with defects of materials and workmanship after the standard Limited Warranty expires.

Altec offers many types of coverages and coverage packages. Ask your Altec account manager for details. Quotes are available upon request.

12 After the initial warranty period, Altec Industries, Inc. offers mobile service units, in-shop service and same day parts shipments on most parts from service locations nationwide at an additional competitive labor and parts rate. Call 877-GO-ALTEC for all of your Parts and Service needs.

13 Trade-in offer is conditional upon equipment being maintained to DOT (Department of Transportation) operating and safety standards and remaining in compliance of DOT until arrival at an Altec Facility. This will include, but is not limited to engine, tires, lights, brakes, glass, etc. All equipment, i.e., jibs, winches, pintle hooks, trailer connectors, etc., are to remain with unit unless otherwise agreed upon in writing by

both parties. ALTEC Industries reserves the right to re-negotiate its trade-in offer if these conditions are not met.

All reasonable and necessary expenses required of ALTEC Industries to execute transportation of the trade-in will be invoiced to the customer for payment if these conditions are not met to maintain DOT standards.

Customer may exercise the option to rescind this agreement in writing within sixty (60) days after receipt of purchase order. After that time ALTEC Industries will expect receipt of trade-in vehicle upon delivery of new equipment as part of the terms of the purchase order unless other arrangements have been made.

14 The final fully loaded weight of the truck and structural ratings of the hitch assembly may reduce the towing capacity and the vertical load capacity of the finished truck. These capacities may not match the ratings of the chassis or hitch.

15 Altec takes pride in offering solutions that provide a safer work environment for our customers. In an effort to focus on safety, we would encourage you to consider the following items:

Outrigger pads (When Applicable)
Fall Protection System
Fire extinguisher/DOT kit
Platform Liner (When Applicable)
Altec Sentry Training
Wheel Chocks

The aforementioned equipment can be offered in our new equipment quotations. If you find that any of these items have not been listed as priced options with an item number in the body of your quotation and are required by your company, we would encourage you to contact your Altec Account Manager and have an updated quote version sent to you. These options must be listed with an item number in the quotation for them to be supplied by Altec.

16 Altec values your data privacy. The Altec Family of Companies (including Altec, Inc., and it's subsidiaries) may collect telematics data from the equipment you own. Please review Altec's Equipment Data Privacy Notice on www.altec.com for more information. By purchasing equipment from Altec, you consent to Altec's right to collect and use such data.

17 RECOMMENDED OPTIONS AND ACCESSORIES: These options are not included in the quote total price. Selected options will change the quote total. Any options added after initial order will be re-quoted.

Village of
WINNETKA, IL

Agenda Item Executive Summary

TITLE: Resolution No. R-04-2026: Approving a Contract with Swallow Construction Corporation for Construction Services for the Ravines Sanitary Pumping Station and Forcemain Rehabilitation (Adoption)

PRESENTER: Tom Powers

AGENDA DATE: February 17, 2026

CONSENT: Yes

ITEM TYPE: Consent Agenda

ITEM HISTORY:
None.

EXECUTIVE SUMMARY:
In late 2024 the Village hired Strand consultants to complete a basis of design and prepare construction documents for the rehabilitation of Ravines force main. The basis of design process also identified modifications to the Ravines pump station that would improve the reliability and resilience of the station. Council budgeted in fiscal year 2026 for the rehabilitation construction, so that a competitive bid package could be assembled and awarded.

The pump station and force main rehabilitation was advertised for bid on January 5th with the associated bids received on January 27th, 2026.

The Village received two bids ranging from $746,955.50 to $1,089,709.30 for the project. Swallow Construction was the lowest bidder and their references checked out. Strand held a bid review with Swallow and found no exceptions to their bid.

The Fiscal Year 2026 Budget contains funding in the amount of $780,000 (in Sanitary Sewer Fund Fund No. 540.70.01-670) for the repair of the forcemain. The proposed award falls within the budget.

RECOMMENDATION:
Consider adopting Resolution No. R-04-2026, awarding a contract for the Ravines Sanitary Pumping Station and Force Main Rehabilitation to Swallow Construction Corporation in the amount of $746,955.50

ATTACHMENTS:

1. Resolution No. R-04-2026: Approving a Contract with Swallow Construction for Ravines Sanitary Pumping Station and Forcemain Rehabilitation - Construct
2. Ravines Sanitary Pumping Station and Force Main Rehabilitation Bid Tab
3. Ravines Sanitary Pumping Station and Force Main Rehabilitation Bidder's Proposal

ATTACHMENT 1

RESOLUTION NO. R-04-2026

A RESOLUTION APPROVING A CONTRACT WITH SWALLOW CONSTRUCTION CORPORATION FOR CONSTRUCTION SERVICES FOR THE RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

WHEREAS, Article VII, Section 10 of the 1970 Illinois Constitution authorizes the Village of Winnetka (***"Village"***) to contract with individuals, associations, and corporations in any manner not prohibited by law or ordinance; and

WHEREAS, the Village desires to retain a firm to replace approximately 1,500 linear feet of force main related to the Ravines Sanitary Pumping Station and Force Main Rehabilitation Project (***"Services"***); and

WHEREAS, the Village issued Request for Bids No. 026-003 for the provision of the Services; and

WHEREAS, the Village received two bids to provide the Services (***"Bids"***); and

WHEREAS, pursuant to Chapter 4.12 of the Village Code, the Village purchasing manual, and the Village's home rule authority, the Village Council has determined that Swallow Construction Corporation of West Chicago, Illinois (***"Contractor"***) is the lowest responsible bidder to provide the Services; and

WHEREAS, the Village Council desires to enter into a contract with Contractor for the provision of the Services from Contractor in an amount not to exceed $746,955.50 (***"Contract"***); and

WHEREAS, the Village Council has determined that it is in the best interests of the Village and its residents to award and enter into the Contract with Contractor;

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Village of Winnetka, Cook County, Illinois, as follows:

SECTION 1: RECITALS. The Village Council hereby adopts the foregoing recitals as its findings, as if fully set forth herein.

SECTION 2: APPROVAL OF CONTRACT. The Village Council hereby approves the Contract in substantially the form attached as **Exhibit A**, and in a final form approved by the Village Attorney.

SECTION 3: AUTHORIZATION TO EXECUTE CONTRACT. The Village Council hereby authorizes and directs the Village President and the Village Clerk to execute and attest, respectively, on behalf of the Village, the final Contract after receipt by the Village Manager of two executed copies of the final Contract from Contractor; provided, however, that if the Village Manager does not receive two executed copies of the final Contract from Contractor within 60

days after the date of adoption of this Resolution, then this authority to execute and seal the final Contract will, at the option of the Village Council, be null and void.

SECTION 4: EFFECTIVE DATE. This Resolution shall be in full force and effect from and after its passage and approval according to law.

ADOPTED this 17th day of February, 2026, pursuant to the following roll call vote:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

Signed

_____

Village President

Countersigned:

_____

Village Clerk

EXHIBIT A

CONTRACT

CONTRACT BETWEEN

VILLAGE OF WINNETKA

AND

SWALLOW CONSTRUCTION CORPORATION

FOR THE CONSTRUCTION OF

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

CONTRACT BETWEEN

VILLAGE OF WINNETKA

AND

SWALLOW CONSTRUCTION CORPORATION

FOR THE CONSTRUCTION OF

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

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PERFORMANCE BOND

LABOR AND MATERIAL PAYMENT BOND

CONTRACT BETWEEN

VILLAGE OF WINNETKA

AND

SWALLOW CONSTRUCTION CORPORATION

FOR THE CONSTRUCTION OF

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

In consideration of the mutual promises set forth below, the Village of Winnetka, 510 Green Bay Road, Winnetka, Illinois 60093, a home rule municipal corporation ("Owner"), and ***SWALLOW CONSTRUCTION CORPORATION*, 490 Topsoil Drive, West Chicago, IL 60185 *a Corporation*** ("Contractor"), make this Contract as of the ***17th*** day of ***February, 2026*** and hereby agree as follows:

ARTICLE I
THE WORK

1.1 Performance of the Work

Contractor shall, at its sole cost and expense, provide, perform, and complete all of the following, all of which is herein referred to as the "Work":

1. Labor, Equipment, Materials, and Supplies. Provide, perform, and complete, in the manner described and specified in this Contract, all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data, and other means and items necessary to accomplish the Project at the Work Site, both as defined in Attachment A, in accordance with the specifications attached hereto as Attachment B, the drawings identified in the list attached hereto as Attachment C, and the Special Project Requirements attached hereto as Attachment D.

2. Permits. Except as otherwise provided in Attachment A, procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary in connection therewith.

3. Bonds and Insurance. Procure and furnish all Bonds and all certificates and policies of insurance specified in this Contract.

4. Taxes. Pay all applicable federal, state, and local taxes.

5. Miscellaneous. Do all other things required of Contractor by this Contract, including, without limitation, arranging for utility and other services needed for the Work and for testing, including the installation of temporary utility lines, wiring, switches, fixtures, hoses, connections, and meters, and providing sufficient sanitary conveniences and shelters to accommodate all workers and all personnel of Owner engaged in the Work.

6. Quality. Provide, perform and complete all of the foregoing in a proper and workmanlike manner, consistent with the highest standards of professional and

construction practices and in full compliance with, and as required by or pursuant to, this Contract, and with the greatest economy, efficiency, and expedition consistent therewith, with only new, undamaged and first quality equipment, materials and supplies.

1.2 Commencement and Completion Dates

Contractor shall commence the Work not later than the "Commencement Date" set forth on Attachment A and shall diligently and continuously prosecute the Work at such a rate as will allow the Work to be fully provided, performed, and completed in full compliance with this Contract not later than the "Completion Date" set forth in Attachment A. The time of commencement, rate of progress, and time of completion are referred to in this Contract as the "Contract Time."

1.3 Required Submittals

A. Submittals Required. Contractor shall submit to Owner all documents, data, and information specifically required to be submitted by Contractor under this Contract and shall, in addition, submit to Owner all such drawings, specifications, descriptive information, and engineering documents, data, and information as may be required, or as may be requested by Owner, to show the details of the Work, including a complete description of all equipment, materials, and supplies to be provided under this Contract ("Required Submittals"). Such details shall include, but shall not be limited to, design data, structural and operating features, principal dimensions, space required or provided, clearances required or provided, type and brand of finish, and all similar matters, for all components of the Work.

B. Number and Format. Except as otherwise provided in Attachment B, Contractor shall provide three complete sets for each Required Submittal. All Required Submittals, except drawings, shall be prepared on white 8-1/2 inch by 11 inch paper. Two black and white prints and one electronic copy in Adobe Acrobat (.pdf) format of each drawing shall be provided. All prints of drawings shall be folded to 8-1/2 inches by 11 inches, or less. All drawings shall be clearly marked in the lower right-hand corner with the names of Owner and Contractor.

C. Time of Submission and Owner's Review. All Required Submittals shall be provided to Owner no later than the time, if any, specified in this Contract for their submission or, if no time for submission is specified, in sufficient time, in Owner's sole opinion, to permit Owner to review the same prior to the commencement of the part of the Work to which they relate and prior to the purchase of any equipment, materials, or supplies that they describe. Owner shall have the right to require such corrections as may be necessary to make such submittals conform to this Contract. All such submittals shall, after final processing and review with no exception (or its equivalent) noted by Owner, become a part of this Contract. No Work related to any submittal shall be performed by Contractor until Owner has completed review of such submittal with no exception (or its equivalent) noted. Owner's review and stamping of any Required Submittal shall be for the sole purpose of examining the general management, design, and details of the proposed Work, shall not relieve Contractor of the entire responsibility for the performance of the Work in full compliance with, and as required by or pursuant to this Contract, and shall not be regarded as any assumption of risk or liability by Owner.

D. Responsibility for Delay. Contractor shall be responsible for any delay in the Work due to delay in providing Required Submittals conforming to this Contract.

1.4 Review and Interpretation of Contract Provisions

Contractor represents and warrants that it has carefully reviewed this Contract, including all of its Attachments and the drawings identified in Attachment C, all of which are by this reference incorporated into and made a part of this Contract. Contractor shall, at no increase in the Contract Price, provide workmanship, equipment, materials, and supplies that fully conform to this Contract. Whenever any equipment, materials or supplies are specified or described in this Contract by using the name or other identifying feature of a proprietary product or the name or other identifying feature of a particular manufacturer or vendor, the specific item mentioned shall be understood as establishing the type, function and quality desired. Other manufacturers' or vendors' products may be accepted, provided that the products proposed are equivalent in substance and function to those named as determined by Owner in its sole and absolute discretion.

Contractor shall promptly notify Owner of any discrepancy, error, omission, ambiguity, or conflict among any of the provisions of this Contract before proceeding with any Work affected thereby. If Contractor fails to give such notice to Owner, then the subsequent decision of Owner as to which provision of this Contract shall govern shall be final, and any corrective work required shall not entitle Contractor to any damages, to any compensation in excess of the Contract Price, or to any delay or extension of the Contract Time.

When the equipment, materials, or supplies furnished by Contractor cannot be installed as specified in this Contract, Contractor shall, without any increase in the Contract Price, make all modifications required to properly install the equipment, materials, or supplies. Any such modification shall be subject to the prior review and consent of Owner.

1.5 Conditions at the Work Site; Record Drawings

Contractor represents and warrants that it has had a sufficient opportunity to conduct a thorough investigation of the Work Site and the surrounding area and has completed such investigation to its satisfaction. Contractor shall have no claim for damages, for compensation in excess of the Contract Price, or for a delay or extension of the Contract Time based upon conditions found at, or in the vicinity of, the Work Site. When information pertaining to subsurface, underground or other concealed conditions, soils analysis, borings, test pits, utility locations or conditions, buried structures, condition of existing structures and other investigations is or has been provided by Owner, or is or has been otherwise made available to Contractor by Owner, such information is or has been provided or made available solely for the convenience of Contractor and is not part of this Contract. Owner assumes no responsibility whatever in respect to the sufficiency or accuracy of such information, and there is no guaranty or warranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the Work or the Work Site, or that the conditions indicated are representative of those existing at any particular location, or that the conditions indicated may not change, or that unanticipated conditions may not be present.

Contractor shall be solely responsible for locating all existing underground installations by prospecting no later than two workdays prior to any scheduled excavation or trenching, whichever is earlier. Contractor shall check all dimensions, elevations, and quantities indicated in this Contract within the same time period as set forth above for prospecting underground installations. Contractor shall lay out the Work in accordance with this Contract and shall establish and maintain such locations, lines and levels. Wherever pre-existing work is encountered, Contractor shall verify and be responsible for dimensions and location of such pre-

existing work. Contractor shall notify Owner of any discrepancy between the dimensions, elevations and quantities indicated in this Contract and the conditions of the Work Site or any other errors, omissions or discrepancies which Contractor may discover during such inspections. Full instructions will be furnished by Owner should such error, omission, or discrepancy be discovered, and Contractor shall carry out such instructions as if originally specified and without any increase in Contract Price.

Before Final Acceptance of the Work, Contractor shall submit to Owner two sets of Drawings of Record, unless a greater number is specified elsewhere in this Contract, indicating all field deviations from Attachment B or the drawings identified in Attachment C. Upon acceptance of the Contractor's printed Drawings of Record, Contractor shall also submit to Owner electronic Drawings of Record in electronic CADD files and/or other electronic file format acceptable to Owner operating under a Windows operating system.

1.6 Technical Ability to Perform

Contractor represents and warrants that it is sufficiently experienced and competent, and has the necessary capital, facilities, plant, organization, and staff, to provide, perform and complete the Work in full compliance with, and as required by or pursuant to, this Contract.

1.7 Financial Ability to Perform

Contractor represents and warrants that it is financially solvent, and Contractor has the financial resources necessary to provide, perform and complete the Work in full compliance with, and as required by or pursuant to, this Contract.

1.8 Time

Contractor represents and warrants that it is ready, willing, able and prepared to begin the Work on the Commencement Date and that the Contract Time is sufficient time to permit completion of the Work in full compliance with, and as required by or pursuant to, this Contract for the Contract Price, all with due regard to all natural and man-made conditions that may affect the Work or the Work Site and all difficulties, hindrances, and delays that may be incident to the Work.

1.9 Safety at the Work Site

Contractor shall be solely and completely responsible for providing and maintaining safe conditions at the Work Site, including the safety of all persons and property during performance of the Work. This requirement shall apply continuously and shall not be limited to normal working hours. Contractor shall take all safety precautions as shall be necessary to comply with all applicable laws and to prevent injury to persons and damage to property.

Contractor shall conduct all of its operations without interruption or interference with vehicular and pedestrian traffic on public and private rights-of-way, unless it has obtained permits therefor from the proper authorities. If any public or private right-of-way shall be rendered unsafe by Contractor's operations, Contractor shall make such repairs or provide such temporary ways or guards as shall be acceptable to the proper authorities.

1.10 Cleanliness of the Work Site and Environs

Contractor shall keep the Work Site and adjacent areas clean at all times during performance of the Work and shall, upon completion of the Work, leave the Work Site and adjacent areas in a clean and orderly condition.

1.11 Damage to the Work, the Work Site, and Other Property

The Work and everything pertaining thereto shall be provided, performed, completed, and maintained at the sole risk and cost of Contractor from the Commencement Date until Final Payment. Contractor shall be fully responsible for the protection of all public and private property and all persons. Without limiting the foregoing, Contractor shall, at its own cost and expense, provide all permanent and temporary shoring, anchoring and bracing required by the nature of the Work in order to make all parts absolutely stable and rigid, even when such shoring, anchoring and bracing is not explicitly specified, and support and protect all buildings, bridges, roadways, conduits, wires, water pipes, gas pipes, sewers, pavements, curbs, sidewalks, fixtures and landscaping of all kinds and all other public or private property that may be encountered or endangered in providing, performing and completing the Work. Contractor shall have no claim against Owner because of any damage or loss to the Work or to Contractor's equipment, materials, or supplies from any cause whatsoever, including damage or loss due to simultaneous work by others. Contractor shall, promptly and without charge to Owner, repair or replace, to the satisfaction of Owner, any damage done to, and any loss suffered by, the Work and any damage done to, and any loss suffered by, the Work Site or other property as a result of the Work. Notwithstanding any other provision of this Contract, Contractor's obligations under this Section shall exist without regard to, and shall not be construed to be waived by, the availability or unavailability of any insurance, either of Owner or Contractor, to indemnify, hold harmless, or reimburse Contractor for the cost of any repair or replacement work required by this Section.

1.12 Subcontractors and Suppliers

A. Approval and Use of Subcontractors and Suppliers. Contractor shall perform the Work with its own personnel and under the management, supervision, and control of its own organization unless otherwise approved by Owner in writing. All subcontractors, suppliers, and subcontracts used by Contractor shall be acceptable to, and approved in advance by, Owner. Owner's approval of any subcontractor, supplier, and subcontract shall not relieve Contractor of full responsibility and liability for the provision, performance, and completion of the Work in full compliance with, and as required by or pursuant to, this Contract. All Work performed under any subcontract shall be subject to all of the provisions of this Contract in the same manner as if performed by employees of Contractor. Every reference in this Contract to "Contractor" shall be deemed also to refer to all subcontractors and suppliers of Contractor. Every subcontract shall include a provision binding the subcontractor or supplier to all provisions of this Contract.

B. Removal of Subcontractors and Suppliers. If any subcontractor or supplier fails to perform the part of the Work undertaken by it in a manner satisfactory to Owner, Contractor shall immediately upon notice from Owner terminate such subcontractor or supplier. Contractor shall have no claim for damages, for compensation in excess of the Contract Price, or for a delay or extension of the Contract Time as a result of any such termination.

1.13 Simultaneous Work By Others

Owner shall have the right to perform or have performed such other work as Owner may desire in, about, or near the Work Site during the performance of the Work by Contractor. Contractor shall make every reasonable effort to perform the Work in such manner as to enable both the Work and such other work to be completed without hindrance or interference from each other. Contractor shall afford Owner and other contractors reasonable opportunity for the execution of such other work and shall properly coordinate the Work with such other work.

1.14 Occupancy Prior to Final Payment

Owner shall have the right, at its election, to occupy, use, or place in service any part of the Work prior to Final Payment. Such occupancy, use, or placement in service shall be conducted in such manner as not to damage any of the Work or to unreasonably interfere with the progress of the Work. No such occupancy, use, or placement in service shall be construed as an acceptance of any of the Work or a release or satisfaction of Contractor's duty to insure and protect the Work, nor shall it, unless conducted in an unreasonable manner, be considered as an interference with Contractor's provision, performance, or completion of the Work.

1.15 Owner's Right to Terminate or Suspend Work for Convenience

A. Termination or Suspension for Convenience. Owner shall have the right, for its convenience, to terminate or suspend the Work in whole or in part at any time by written notice to Contractor. Every such notice shall state the extent and effective date of such termination or suspension. On such effective date, Contractor shall, as and to the extent directed, stop Work under this Contract, cease all placement of further orders or subcontracts, terminate or suspend Work under existing orders and subcontracts, cancel any outstanding orders or subcontracts that may be cancelled, and take any action necessary to protect any property in its possession in which Owner has or may acquire any interest and to dispose of such property in such manner as may be directed by Owner.

B. Payment for Completed Work. In the event of any termination pursuant to Subsection 1.15A above, Owner shall pay Contractor (1) such direct costs, excluding overhead, as Contractor shall have paid or incurred for all Work done in compliance with, and as required by or pursuant to, this Contract up to the effective date of termination together with ten percent of such costs for overhead and profit; and (2) such other costs pertaining to the Work, exclusive of overhead and profit, as Contractor may have reasonably and necessarily incurred as the result of such termination. Any such payment shall be offset by any prior payment or payments and shall be subject to Owner's rights to withhold and deduct as provided in this Contract.

ARTICLE II
CHANGES AND DELAYS

2.1 Changes

Owner shall have the right, by written order executed by Owner, to make changes in the Contract, the Work, the Work Site, and the Contract Time ("Change Order"). If any Change Order causes an increase or decrease in the amount of the Work, an equitable adjustment in the Contract Price or Contract Time may be made. All claims by Contractor for an equitable adjustment in either the Contract Price or the Contract Time shall be made within two business days following receipt of such Change Order, and shall, if not made prior to such time, be

conclusively deemed to have been waived. No decrease in the amount of the Work caused by any Change Order shall entitle Contractor to make any claim for damages, anticipated profits, or other compensation. Any Change Order that authorizes or necessitates an increase of fifty per cent or more in (a) the original Contract Price or (b) the original prices of any subcontractor under this Contract, shall be subject to bidding in the same manner as the original Contract or subcontract was bid.

2.2 Delays

A. Extensions for Unavoidable Delays. For any delay that may result from causes that could not be avoided or controlled by Contractor, Contractor shall, upon timely written application, be entitled to issuance of a Change Order providing for an extension of the Contract Time for a period of time equal to the delay resulting from such unavoidable cause. No extension of the Contract Time shall be allowed for any other delay in completion of the Work.

B. No Compensation for Delays. No payment, compensation, damages, or adjustment of any kind, other than the extension of the Contract Time provided in Subsection 2.2A above, shall be made to, or claimed by, Contractor because of hindrances or delays from any cause in the commencement, prosecution, or completion of the Work, whether caused by Owner or any other party and whether avoidable or unavoidable.

ARTICLE III
CONTRACTOR'S RESPONSIBILITY FOR DEFECTIVE WORK

3.1 Inspection; Testing; Correction of Defects

A. Inspection. Until Final Payment, all parts of the Work shall be subject to inspection and testing by Owner or its designated representatives. Contractor shall furnish, at its own expense, all reasonable access, assistance, and facilities required by Owner for such inspection and testing.

B. Re-Inspection. Re-inspection and re-testing of any Work may be ordered by Owner at any time, and, if so ordered, any covered or closed Work shall be uncovered or opened by Contractor. If the Work is found to be in full compliance with this Contract, then Owner shall pay the cost of uncovering, opening, re-inspecting, or re-testing, as the case may be. If such Work is not in full compliance with this Contract, then Contractor shall pay such cost.

C. Correction. Until Final Payment, Contractor shall, promptly and without charge, repair, correct, or replace all or any part of the Work that is defective, damaged, flawed, or unsuitable or that in any way fails to conform strictly to the requirements of this Contract.

3.2 Warranty of Work

A. **Scope of Warranty**. Contractor warrants that the Work and all of its components shall be free from defects and flaws in design, workmanship, and materials; shall strictly conform to the requirements of this Contract; and shall be fit, sufficient and suitable for the purposes expressed in, or reasonably inferred from, this Contract. The warranty herein expressed shall be in addition to any other warranties expressed in this Contract, or expressed or implied by law, which are hereby reserved unto Owner.

B. **Length of Warranty; Repairs; Extension of Warranty**. Contractor shall, promptly and without charge, correct any failure to fulfill the above warranty that may be discovered or develop at any time within one year after Final Payment or such longer period as may be prescribed in Attachment B or Attachment D to this Contract or by law. The above warranty shall be extended automatically to cover all repaired and replacement parts and labor provided or performed under such warranty and Contractor's obligation to correct Work shall be extended for a period of one year from the date of such repair or replacement. The time period established in this Subsection 3.2B relates only to the specific obligation of Contractor to correct Work and shall not be construed to establish a period of limitation with respect to other obligations that Contractor has under this Contract.

C. **Subcontractor and Supplier Warranties**. Whenever Attachment B or Attachment D requires a subcontractor or supplier to provide a guaranty or warranty, Contractor shall be solely responsible for obtaining said guaranty or warranty in form satisfactory to Owner and assigning said warranty or guaranty to Owner. Acceptance of any assigned warranties or guaranties by Owner shall be a precondition to Final Payment and shall not relieve Contractor of any of its guaranty or warranty obligations under this Contract.

3.3 Owner's Right to Correct

If, within two business days after Owner gives Contractor notice of any defect, damage, flaw, unsuitability, nonconformity, or failure to meet warranty subject to correction by Contractor pursuant to Section 3.1 or Section 3.2 of this Contract, Contractor neglects to make, or undertake with due diligence to make, the necessary corrections, then Owner shall be entitled to make, either with its own forces or with contract forces, the corrections and to recover from Contractor all resulting costs, expenses, losses, or damages, including attorneys' fees and administrative expenses.

ARTICLE IV
FINANCIAL ASSURANCES

4.1 Bonds

Contemporaneous with Contractor's execution of this Contract, Contractor shall provide a Performance Bond and a Labor and Material Payment Bond, on forms provided by Owner, from a surety company licensed to do business in the State of Illinois with a general rating of A minus and a financial size category of Class VIII or better in Best's Insurance Guide, each in the penal sum of the Contract Price ("Bonds"). Contractor shall, at all times while providing, performing, or completing the Work, including, without limitation, at all times while correcting any failure to meet warranty pursuant to Section 3.2 of this Contract, maintain and keep in force, at Contractor's expense, the Bonds required hereunder.

4.2 Insurance

Contemporaneous with Contractor's execution of this Contract, Contractor shall provide certificates and policies of insurance evidencing the minimum insurance coverages and limits set forth in Attachment A. For good cause shown, Owner may extend the time for submission of the required policies of insurance upon such terms, and with such assurances of complete and prompt performance, as Owner may impose in the exercise of its sole discretion. Such policies shall be in a form, and from companies, acceptable to Owner and from companies with a general rating of A minus, and a financial size category of Class VIII or better, in Best's

Insurance Guide. Such insurance shall provide that no change, modification in, or cancellation of any insurance shall become effective until the expiration of 30 days after written notice thereof shall have been given by the insurance company to Owner. Contractor shall, at all times while providing, performing, or completing the Work, including, without limitation, at all times while correcting any failure to meet warranty pursuant to Section 3.2 of this Contract, maintain and keep in force, at Contractor's expense, the minimum insurance coverages and limits set forth in Attachment A.

4.3 Indemnification

Contractor shall indemnify, save harmless, and defend Owner against any and all lawsuits, claims, demands, damages, liabilities, losses, and expenses, including attorneys' fees and administrative expenses, that may arise, or be alleged to have arisen, out of or in connection with Contractor's performance of, or failure to perform, the Work or any part thereof, whether or not due or claimed to be due in whole or in part to the active, passive, or concurrent negligence or fault of Contractor, except to the extent caused by the sole negligence of Owner. The provision of insurance as provided in this Contract shall not be a limit on the Contractor's obligation under this Section 4.3.

ARTICLE V
PAYMENT

5.1 Contract Price

Owner shall pay to Contractor, in accordance with and subject to the terms and conditions set forth in this Article V and Attachment A, and Contractor shall accept in full satisfaction for providing, performing, and completing the Work, the amount or amounts set forth in Attachment A (the "Contract Price"), subject to any additions, deductions, or withholdings provided for in this Contract.

5.2 Taxes and Benefits

Owner is exempt from and shall not be responsible to pay, or reimburse Contractor for, any state or local sales, use, or excise taxes. The Contract Price includes all other applicable federal, state, and local taxes of every kind and nature applicable to the Work as well as all taxes, contributions, and premiums for unemployment insurance, old age or retirement benefits, pensions, annuities, or other similar benefits. All claim or right to claim additional compensation by reason of the payment of any such tax, contribution, or premium is hereby waived and released by Contractor.

5.3 Progress Payments

A. Payment in Installments. The Contract Price shall be paid in monthly installments in the manner set forth in Attachment A ("Progress Payments").

B. Pay Requests. Contractor shall, as a condition precedent to its right to receive each Progress Payment, submit to Owner a pay request in the form provided by Owner ("Pay Request"). The first Pay Request shall be submitted not sooner than 30 days following commencement of the Work. Owner may, by written notice to Contractor, designate a specific day of each month on or before which Pay Requests must be submitted. Each Pay Request shall include (a) Contractor's certification of the value of, and partial or final waivers of lien covering, all

Work for which payment is then requested and (b) Contractor's certification that all prior Progress Payments have been properly applied to the payment or reimbursement of the costs with respect to which they were paid.

C. Certified Payroll Records. Contractor shall submit to Owner, on a monthly basis, the certified payroll records required by Section 5 of the Prevailing Wage Act, as amended, 820 ILCS 130/5. Such records shall be provided on the current forms for certified payroll records issued by the Illinois Department of Labor or such other form as is acceptable to Owner.

D. Work Entire. This Contract and the Work are entire and the Work as a whole is of the essence of this Contract. Notwithstanding any other provision of this Contract, each and every part of this Contract and of the Work are interdependent and common to one another and to Owner's obligation to pay all or any part of the Contract Price or any other consideration for the Work. Any and all Progress Payments made pursuant to this Article are provided merely for the convenience of Contractor and for no other purpose.

5.4 Final Acceptance and Final Payment

A. Notice of Completion. When the Work has been completed and is ready in all respects for acceptance by Owner, Contractor shall notify Owner and request a final inspection ("Notice of Completion"). Contractor's Notice of Completion shall be given sufficiently in advance of the Completion Date to allow for scheduling of the final inspection and for completion or correction before the Completion Date of any items identified by such inspection as being defective, damaged, flawed, unsuitable, nonconforming, incomplete, or otherwise not in full compliance with, or as required by or pursuant to, this Contract ("Punch List Work").

B. Punch List and Final Acceptance. The Work shall be finally accepted when, and only when, the whole and all parts thereof shall have been completed to the satisfaction of Owner in full compliance with, and as required by or pursuant to, this Contract. Upon receipt of Contractor's Notice of Completion, Owner shall make a review of the Work and notify Contractor in writing of all Punch List Work, if any, to be completed or corrected. Following Contractor's completion or correction of all Punch List Work, Owner shall make another review of the Work and prepare and deliver to Contractor either a written notice of additional Punch List Work to be completed or corrected or a written notice of final acceptance of the Work ("Final Acceptance").

C. Final Payment. As soon as practicable after Final Acceptance, Contractor shall submit to Owner a properly completed final Pay Request in the form provided by Owner ("Final Pay Request"). Owner shall pay to Contractor the balance of the Contract Price, after deducting therefrom all charges against Contractor as provided for in this Contract ("Final Payment"). Final Payment shall be made not later than 60 days after Owner approves the Final Pay Request. The acceptance by Contractor of Final Payment shall operate as a full and complete release of Owner of and from any and all lawsuits, claims, demands, damages, liabilities, losses, and expenses of, by, or to Contractor for anything done, furnished for, arising out of, relating to, or in connection with the Work or for or on account of any act or neglect of Owner arising out of, relating to, or in connection with the Work.

5.5 Liens

A. Title. Nothing in this Contract shall be construed as vesting in Contractor any right of property in any equipment, materials, supplies, and other items provided under this Contract after they have been installed in, incorporated into, attached to, or affixed to, the Work

or the Work Site. All such equipment, materials, supplies, and other items shall, upon being so installed, incorporated, attached or affixed, become the property of Owner, but such title shall not release Contractor from its duty to insure and protect the Work in accordance with the requirements of this Contract.

B. Waivers of Lien. Contractor shall, from time to time at Owner's request and in any event prior to Final Payment, furnish to Owner such receipts, releases, affidavits, certificates, and other evidence as may be necessary to establish, to the reasonable satisfaction of Owner, that no lien against the Work or the public funds held by Owner exists in favor of any person whatsoever for or by reason of any equipment, material, supplies, or other item furnished, labor performed, or other thing done in connection with the Work or this Contract ("Lien") and that no right to file any Lien exists in favor of any person whatsoever.

C. Removal of Liens. If at any time any notice of any Lien is filed, then Contractor shall, promptly and without charge, discharge, remove, or otherwise dispose of such Lien. Until such discharge, removal, or disposition, Owner shall have the right to retain from any money payable hereunder an amount that Owner, in its sole judgment, deems necessary to satisfy such Lien and to pay the costs and expenses, including attorneys' fees and administrative expenses, of any actions brought in connection therewith or by reason thereof.

D. Protection of Owner Only. This Section shall not operate to relieve Contractor's surety or sureties from any of their obligations under the Bonds, nor shall it be deemed to vest any right, interest, or entitlement in any subcontractor or supplier. Owner's retention of funds pursuant to this Section shall be deemed solely for the protection of its own interests pending removal of such Liens by Contractor, and Owner shall have no obligation to apply such funds to such removal but may, nevertheless, do so where Owner's interests would thereby be served.

5.6 Deductions

A. Owner's Right to Withhold. Notwithstanding any other provision of this Contract and without prejudice to any of Owner's other rights or remedies, Owner shall have the right at any time or times, whether before or after approval of any Pay Request, to deduct and withhold from any Progress or Final Payment that may be or become due under this Contract such amount as may reasonably appear necessary to compensate Owner for any actual or prospective loss due to: (1) Work that is defective, damaged, flawed, unsuitable, nonconforming, or incomplete; (2) damage for which Contractor is liable under this Contract; (3) state or local sales, use, or excise taxes from which Owner is exempt; (4) Liens or claims of Lien regardless of merit; (5) claims of subcontractors, suppliers, or other persons regardless of merit; (6) delay in the progress or completion of the Work; (7) inability of Contractor to complete the Work; (8) failure of Contractor to properly complete or document any Pay Request; (9) any other failure of Contractor to perform any of its obligations under this Contract; (10) the cost to Owner, including attorneys' fees and administrative costs, of correcting any of the aforesaid matters or exercising any one or more of Owner's remedies set forth in Section 6.3 of this Contract; or (11) engineering and inspection charges imposed pursuant to this Contract.

B. Use of Withheld Funds. Owner shall be entitled to retain any and all amounts withheld pursuant to Subsection 5.6A above until Contractor shall have either performed the obligations in question or furnished security for such performance satisfactory to Owner. Owner shall be entitled to apply any money withheld or any other money due Contractor under this Contract to reimburse itself for any and all costs, expenses, losses, damages, liabilities, suits,

judgments, awards, attorneys' fees and administrative expenses incurred, suffered, or sustained by Owner and chargeable to Contractor under this Contract.

ARTICLE VI
DISPUTES AND REMEDIES

6.1 Dispute Resolution Procedure

A. Notice of Disputes and Objections. If Contractor disputes or objects to any requirement, direction, instruction, interpretation, determination, or decision of Owner, Contractor may notify Owner in writing of its dispute or objection and of the amount of any equitable adjustment to the Contract Price or Contract Time to which Contractor claims it will be entitled as a result thereof; provided, however, that Contractor shall, nevertheless, proceed without delay to perform the Work as required, directed, instructed, interpreted, determined, or decided by Owner, without regard to such dispute or objection. Unless Contractor so notifies Owner within two business days after receipt of such requirement, direction, instruction, interpretation, determination, or decision, Contractor shall be conclusively deemed to have waived all such disputes or objections and all claims based thereon.

B. Negotiation of Disputes and Objections. To avoid and settle without litigation any such dispute or objection, Owner and Contractor agree to engage in good faith negotiations. Within three business days after Owner's receipt of Contractor's written notice of dispute or objection, a conference between Owner and Contractor shall be held to resolve the dispute. Within three business days after the end of the conference, Owner shall render its final decision, in writing, to Contractor. If Contractor objects to the final decision of Owner, then it shall, within three business days, give Owner notice thereof and, in such notice, shall state its final demand for settlement of the dispute. Unless Contractor so notifies Owner, Contractor shall be conclusively deemed (1) to have agreed to and accepted Owner's final decision and (2) to have waived all claims based on such final decision.

6.2 Contractor's Remedies

If Owner fails or refuses to satisfy a final demand made by Contractor pursuant to Section 6.1 of this Contract, or to otherwise resolve the dispute which is the subject of such demand to the satisfaction of Contractor, within ten days following receipt of such demand, then Contractor shall be entitled to pursue such remedies, not inconsistent with the provisions of this Contract, as it may have in law or equity.

6.3 Owner's Remedies

If it should appear at any time prior to Final Payment that Contractor has failed or refused to prosecute, or has delayed in the prosecution of, the Work with diligence at a rate that assures completion of the Work in full compliance with the requirements of this Contract on or before the Completion Date, or has attempted to assign this Contract or Contractor's rights under this Contract, either in whole or in part, or has falsely made any representation or warranty in this Contract, or has otherwise failed, refused, or delayed to perform or satisfy any other requirement of this Contract or has failed to pay its debts as they come due ("Event of Default"), and has failed to cure any such Event of Default within five business days after Contractor's receipt of written notice of such Event of Default, then Owner shall have the right, at its election and without prejudice to any other remedies provided by law or equity, to pursue any one or more of the following remedies:

1. Owner may require Contractor, within such reasonable time as may be fixed by Owner, to complete or correct all or any part of the Work that is defective, damaged, flawed, unsuitable, nonconforming, or incomplete; to remove from the Work Site any such Work; to accelerate all or any part of the Work; and to take any or all other action necessary to bring Contractor and the Work into strict compliance with this Contract.

2. Owner may perform or have performed all Work necessary for the accomplishment of the results stated in Paragraph 1 above and withhold or recover from Contractor all the cost and expense, including attorneys' fees and administrative costs, incurred by Owner in connection therewith.

3. Owner may accept the defective, damaged, flawed, unsuitable, nonconforming, incomplete, or dilatory Work or part thereof and make an equitable reduction in the Contract Price.

4. Owner may terminate this Contract without liability for further payment of amounts due or to become due under this Contract.

5. Owner may, without terminating this Contract, terminate Contractor's rights under this Contract and, for the purpose of completing or correcting the Work, evict Contractor and take possession of all equipment, materials, supplies, tools, appliances, plans, specifications, schedules, manuals, drawings, and other papers relating to the Work, whether at the Work Site or elsewhere, and either complete or correct the Work with its own forces or contracted forces, all at Contractor's expense.

6. Upon any termination of this Contract or of Contractor's rights under this Contract, and at Owner's option exercised in writing, any or all subcontracts and supplier contracts of Contractor shall be deemed to be assigned to Owner without any further action being required, but Owner shall not thereby assume any obligation for payments due under such subcontracts and supplier contracts for any Work provided or performed prior to such assignment.

7. Owner may withhold from any Progress Payment or Final Payment, whether or not previously approved, or may recover from Contractor, any and all costs, including attorneys' fees and administrative expenses, incurred by Owner as the result of any Event of Default or as a result of actions taken by Owner in response to any Event of Default.

8. Owner may recover any damages suffered by Owner.

6.4 Owner's Special Remedy for Delay

If the Work is not completed by Contractor, in full compliance with, and as required by or pursuant to, this Contract, within the Contract Time as such time may be extended by Change Order, then Owner may invoke its remedies under Section 6.3 of this Contract or may, in the exercise of its sole and absolute discretion, permit Contractor to complete the Work but charge to Contractor, and deduct from any Progress or Final Payments, whether or not previously approved, administrative expenses and costs for each day completion of the Work is delayed

beyond the Completion Date, computed on the basis of the "Per Diem Administrative Charge" set forth in Attachment A, as well as any additional damages caused by such delay.

6.5 Terminations and Suspensions Deemed for Convenience

Any termination or suspension of Contractor's rights under this Contract for an alleged default that is ultimately held unjustified shall automatically be deemed to be a termination or suspension for the convenience of Owner under Section 1.15 of this Contract.

ARTICLE VII
LEGAL RELATIONSHIPS AND REQUIREMENTS

7.1 Binding Effect

This Contract shall be binding upon Owner and Contractor and upon their respective heirs, executors, administrators, personal representatives, and permitted successors and assigns. Every reference in this Contract to a party shall also be deemed to be a reference to the authorized officers, employees, agents, and representatives of such party.

7.2 Relationship of the Parties

Contractor shall act as an independent contractor in providing and performing the Work. Nothing in, nor done pursuant to, this Contract shall be construed (1) to create the relationship of principal and agent, partners, or joint venturers between Owner and Contractor or (2) except as provided in Paragraph 6.3(6) above, to create any relationship between Owner and any subcontractor or supplier of Contractor.

7.3 No Collusion

Contractor hereby represents that the only persons, firms, or corporations interested in this Contract as principals are those disclosed to Owner prior to the execution of this Contract, and that this Contract is made without collusion with any other person, firm, or corporation. If at any time it shall be found that Contractor has, in procuring this Contract, colluded with any other person, firm, or corporation, then Contractor shall be liable to Owner for all loss or damage that Owner may suffer thereby, and this Contract shall, at Owner's option, be null and void.

Contractor hereby represents and warrants that neither Contractor nor any person affiliated with Contractor or that has an economic interest in Contractor or that has or will have an interest in the Work or will participate, in any manner whatsoever, in the Work is acting, directly or indirectly, for or on behalf of any person, group, entity or nation named by the United States Treasury Department as a Specially Designated National and Blocked Person, or for or on behalf of any person, group, entity or nation designated in Presidential Executive Order 13224 as a person who commits, threatens to commit, or supports terrorism, and neither Contractor nor any person affiliated with Contractor or that has an economic interest in Contractor or that has or will have an interest in the Work or will participate, in any manner whatsoever, in the Work is, directly or indirectly, engaged in, or facilitating, the Work on behalf of any such person, group, entity or nation.

7.4 Assignment

Contractor shall not (1) assign this Contract in whole or in part, (2) assign any of Contractor's rights or obligations under this Contract, or (3) assign any payment due or to become due under this Contract without the prior express written approval of Owner, which approval may be withheld in the sole and unfettered discretion of Owner; provided, however, that Owner's prior written approval shall not be required for assignments of accounts, as defined in the Illinois Commercial Code, if to do so would violate Section 9-318 of the Illinois Commercial Code, 810 ILCS 5/9-318. Owner may assign this Contract, in whole or in part, or any or all of its rights or obligations under this Contract, without the consent of Contractor.

7.5 Confidential Information

All information supplied by Owner to Contractor for or in connection with this Contract or the Work shall be held confidential by Contractor and shall not, without the prior express written consent of Owner, be used for any purpose other than performance of the Work.

7.6 No Waiver

No examination, inspection, investigation, test, measurement, review, determination, decision, certificate, or approval by Owner, nor any order by Owner for the payment of money, nor any payment for, or use, occupancy, possession, or acceptance of, the whole or any part of the Work by Owner, nor any extension of time granted by Owner, nor any delay by Owner in exercising any right under this Contract, nor any other act or omission of Owner shall constitute or be deemed to be an acceptance of any defective, damaged, flawed, unsuitable, nonconforming, or incomplete Work, equipment, materials, or supplies, nor operate to waive or otherwise diminish the effect of any warranty or representation made by Contractor; or of any requirement or provision of this Contract; or of any remedy, power, or right of Owner.

7.7 No Third Party Beneficiaries

No claim as a third party beneficiary under this Contract by any person, firm, or corporation other than Contractor shall be made or be valid against Owner.

7.8 Notices

All notices required or permitted to be given under this Contract shall be in writing and shall be deemed received by the addressee thereof when delivered in person on a business day at the address set forth below or on the third business day after being deposited in any main or branch United States post office, for delivery at the address set forth below by properly addressed, postage prepaid, certified or registered mail, return receipt requested.

Notices and communications to Owner shall be addressed to, and delivered at, the following address:

Village of Winnetka
510 Green Bay Road
Winnetka, Illinois 60093
Attention: Tom Powers

with a copy to:

Elrod Friedman LLP
325 N. LaSalle Street, Suite 450
Chicago, Illinois 60654
Attention: Peter M. Friedman

Notices and communications to Contractor shall be addressed to, and delivered at, the following address:

SWALLOW CONSTRUCTION CORPORATION
490 Topsoil Drive, West Chicago, IL 60185

The foregoing shall not be deemed to preclude the use of other non-oral means of notification or to invalidate any notice properly given by any such other non-oral means.

By notice complying with the requirements of this Section, Owner and Contractor each shall have the right to change the address or addressee or both for all future notices to it, but no notice of a change of address shall be effective until actually received.

7.9 Governing Laws

This Contract and the rights of Owner and Contractor under this Contract shall be interpreted according to the internal laws, but not the conflict of laws rules, of the State of Illinois.

7.10 Changes in Laws

Unless otherwise explicitly provided in this Contract, any reference to laws shall include such laws as they may be amended or modified from time to time.

7.11 Compliance with Laws and Grants

Contractor shall give all notices, pay all fees, and take all other action that may be necessary to ensure that the Work is provided, performed, and completed in accordance with all required governmental permits, licenses or other approvals and authorizations that may be required in connection with providing, performing, and completing the Work, and with all applicable statutes, ordinances, rules, and regulations, including without limitation the Prevailing Wage Act, 820 ILCS 130/0.01 *et seq.* (in furtherance of which, a copy of Owner's ordinance ascertaining the prevailing rate of wages in effect as of the date of this Contract has been attached as an Appendix to this Contract; if the Illinois Department of Labor revises the prevailing rate of hourly wages to be paid, the revised rate shall apply to this Contract); any other prevailing wage laws; the Fair Labor Standards Act; any statutes regarding qualification to do business; any statutes requiring preference to laborers of specified classes, including, without limitation, the Employment of Illinois Workers on Public Works Act, 30 ILCS 570/0.01 *et seq.*; the Illinois Steel Products Procurement Act, 30 ILCS 565/1 *et seq.*; any statutes prohibiting discrimination because of, or requiring affirmative action based on, race, creed, color, national origin, age, sex, or other prohibited classification, including, without limitation, the Americans with Disabilities Act of 1990, 42 U.S.C. §§ 12101 *et seq.*, the Illinois Human Rights Act, 775 ILCS 5/1-101 *et seq.*, and the

Discrimination in Public Contracts Act, 775 ILCS 10/1 *et seq.*; and any statutes regarding safety or the performance of the Work, including the Illinois Structural Work Act, the Illinois Underground Utility Facilities Damage Prevention Act, and the Occupational Safety and Health Act. Contractor shall also comply with all conditions of any federal, state, or local grant received by Owner or Contractor with respect to this Contract or the Work.

Contractor shall be solely liable for any fines or civil penalties that are imposed by any governmental or quasi-governmental agency or body that may arise, or be alleged to have arisen, out of or in connection with Contractor's, or its subcontractors' or suppliers', performance of, or failure to perform, the Work or any part thereof.

Every provision of law required by law to be inserted into this Contract shall be deemed to be inserted herein.

7.12 Compliance with Patents

A. Assumption of Costs, Royalties, and Fees. Contractor shall pay or cause to be paid all costs, royalties, and fees arising from the use on, or the incorporation into, the Work, of patented equipment, materials, supplies, tools, appliances, devices, processes, or inventions.

B. Effect of Contractor Being Enjoined. Should Contractor be enjoined from furnishing or using any equipment, materials, supplies, tools, appliances, devices, processes, or inventions supplied or required to be supplied or used under this Contract, Contractor shall promptly offer substitute equipment, materials, supplies, tools, appliances, devices, processes, or inventions in lieu thereof, of equal efficiency, quality, suitability, and market value, for review by Owner. If Owner should disapprove the offered substitutes and should elect, in lieu of a substitution, to have supplied, and to retain and use, any such equipment, materials, supplies, tools, appliances, devices, processes, or inventions as may by this Contract be required to be supplied, Contractor shall pay such royalties and secure such valid licenses as may be requisite and necessary for Owner to use such equipment, materials, supplies, tools, appliances, devices, processes, or inventions without being disturbed or in any way interfered with by any proceeding in law or equity on account thereof. Should Contractor neglect or refuse to make any approved substitution promptly, or to pay such royalties and secure such licenses as may be necessary, then Owner shall have the right to make such substitution, or Owner may pay such royalties and secure such licenses and charge the cost thereof against any money due Contractor from Owner or recover the amount thereof from Contractor and its surety or sureties notwithstanding that Final Payment may have been made.

7.13 Time

The Contract Time is of the essence of this Contract. Except where otherwise stated, references in this Contract to days shall be construed to refer to calendar days.

7.14 Severability

The provisions of this Contract shall be interpreted when possible to sustain their legality and enforceability as a whole. In the event any provision of this Contract shall be held invalid, illegal, or unenforceable by a court of competent jurisdiction, in whole or in part, neither the validity of the remaining part of such provision, nor the validity of any other provisions of this Contract shall be in any way affected thereby.

7.15 Entire Agreement

This Contract sets forth the entire agreement of Owner and Contractor with respect to the accomplishment of the Work and the payment of the Contract Price therefor, and there are no other understandings or agreements, oral or written, between Owner and Contractor with respect to the Work and the compensation therefor.

Nothing in this Contract shall be construed to waive or limit any aspect of Owner's lawful authority to regulate the activities of Contractor, its subcontractors' or any other person or to regulate the Work, the Work Site or any other matter falling within its lawful regulatory jurisdiction and powers. No review, inspection, test, audit, measurement, order, determination, decision, disapproval, approval, payment for or use or acceptance of the Work, or any other act or omission of Owner shall imply, create any interest in, be deemed to be the issuance of or require Owner to issue any license or permit to Contractor or any subcontractor.

7.16 Amendments

No modification, addition, deletion, revision, alteration or other change to this Contract shall be effective unless and until such change is reduced to writing and executed and delivered by Owner and Contractor.

IN WITNESS WHEREOF, Owner and Contractor have caused this Contract to be executed in five original counterparts as of the day and year first written above.

(SEAL)
Attest/Witness:

By: _____

Title: _____

VILLAGE OF WINNETKA

By: _____

Title: Village Manager

Attest/Witness:

By: [redacted]

Title: vice-president

SWALLOW CONSTRUCTION CORPORATION

By: [redacted]
Anthony Rendina

Title: ***President***

STATE OF ILLINOIS)
) SS
COUNTY OF DuPage)

CONTRACTOR'S CERTIFICATION

Anthony Rendina, being first duly sworn on oath, deposes and states that all statements herein made are made on behalf of Contractor, that this deponent is authorized to make them, and that the statements contained herein are true and correct.

Contractor deposes, states, and certifies that Contractor is not barred from contracting with a unit of state or local government as a result of (i) a delinquency in the payment of any tax administered by the Illinois Department of Revenue unless Contractor is contesting, in accordance with the procedures established by the appropriate Revenue Act, its liability for the tax or the amount of tax, as set forth in 65 ILCS 5/11-42.1-1 *et seq.*; or (ii) a violation of either Section 33E-3 or Section 33E-4 of the Criminal Code of 1961, 720 ILCS 5/33E-1 *et seq.*; or (iii) a violation of the USA Patriot Act of 2001, 107 Public Law 56 (October 26, 2001) (the "Patriot Act") or other statutes, orders, rules, and regulations of the United States government and its various executive departments, agencies and offices related to the subject matter of the Patriot Act, including, but not limited to, Executive Order 13224 effective September 24, 2001; or (iv) failure to have in place a written sexual harassment policy in full compliance with Section 2-105(A)(4) of the Illinois Human Rights Act, 775 ILCS 5/2-105(A)(4); or (v) failure to have a program in place that meets or exceeds the program requirements of the Substance Abuse Prevention Program on Public Works Projects Act, 820 ILCS 265, and agrees that it will file with the Owner prior to the Contract Commencement Date either a copy of the program or a notarized statement that there is a collective bargaining unit in place that applies to the employees who will be performing Work pursuant to the Contract.

DATED this ***[ ]*** day of ***February, 2026***

Attest/Witness:

By: [redacted]

Title: Vice-President

SWALLOW CONSTRUCTION CORPORATION

By: [redacted]
Anthony Rendina

Title: ***President***

Subscribed and Sworn to before me this 10th day of February, 2026.

[redacted]
Notary Public

My Commission Expires: 10/04/2028

[SEAL]

OFFICIAL SEAL
SARAH A SCHATZ
Notary Public, State of Illinois
Commission No. 998018
My Commission Expires
October 04, 2028

VILLAGE OF WINNETKA
CONTRACT FOR THE
RAVINES SANITARY PUMPING STATION
AND FORCE MAIN REHABILITATION

ATTACHMENT A

SUPPLEMENTAL SCHEDULE OF CONTRACT TERMS

1. **Project**:

The work consists of installing 1,526 linear feet of replacement 6-inch force main from the existing sanitary pumping station at 1075 Sheridan Road, up the ravine leading to Fisher Lane, and following Fisher Lane to the existing discharge manhole at Old Green Bay Road. The existing force main will be abandoned in place. The sanitary pumping station modifications consist of new floor hatch doors, valves and piping. Operations will require phasing to keep the sanitary pumping station operational during the work.

2. **Work Site**:

1075 Sheridan Road, and Fisher Lane at Old Green Bay Road to 1075 Sheridan Road in Winnetka, Illinois

3. **Engineer**:

Strand Associates, Inc, of Joliet, Illinois, or such additional or different Person as Owner may from time to time designate in writing to perform any and all functions of Engineer under this Contract as well as the duly authorized officers, employees, agents, and representatives of any such Person.

4. **Permits, Licenses, Approvals, and Authorizations**:

The following permits were obtained by OWNER:

a. Illinois Department of Transportation Region One Utility Technical Design Approval.
b. Contractor shall obtain an Illinois Department of Transportation Individual Utility Permit Bond of $100,000. An allowance for this permit bond shall be included in Contractor's Bid.
b. Illinois Environmental Protection Agency Application for Construction.
c. Metropolitan Water Reclamation District of Greater Chicago Watershed Management Permit.

5. **Commencement Date**:

☑ The date of execution of the Contract by Owner.

☐ ____days after execution of the Contract by Owner.

☐ _____, 20____

5. **Completion Date**:

Bidder agrees that the Work will be substantially complete on or before July 31 2026, and will be completed and ready for final payment on or before August 31, 2026.

6. **Insurance Coverage**:

A. Worker's Compensation and Employer's Liability with limits not less than:

(1) Worker's Compensation: Statutory;

(2) Employer's Liability: $1,000,000 injury-per occurrence; $1,000,000 disease-per employee; $1,000,000 disease-policy limit

Such insurance must evidence that coverage applies in the State of Illinois.

B. Comprehensive Motor Vehicle Liability with a combined single limit of liability for bodily injury and property damage of not less than $2,000,000 for vehicles owned, non-owned, or rented.

All employees must be included as insureds.

C. Comprehensive General Liability with coverage written on an "occurrence" basis and with limits no less than:

(1) General Aggregate: $5,000,000. See Subsection F below regarding use of umbrella overage.

(2) Bodily Injury: $2,000,000 per person; $2,000,000 per occurrence

(3) Property Damage: $2,000,000 per occurrence and $5,000,000 aggregate.

Coverage must include:

- Premises / Operations
- Products / Completed Operations (to be maintained for two years after Final Payment)
- Independent Contractors

- Personal Injury (with Employment Exclusion deleted)
- Broad Form Property Damage Endorsement
- Blanket Contractual Liability (must expressly cover the indemnity provisions of the Contract)
- Bodily Injury and Property Damage

"X", "C", and "U" exclusions must be deleted.

Railroad exclusions must be deleted if Work Site is within 50 feet of any railroad track.
All employees must be included as insured.

☐ D. Builders Risk Insurance. This insurance must be written in completed value form, must protect Contractor and Owner against "all risks" of direct physical loss to buildings, structures, equipment, and materials to be used in providing, performing, and completing the Work, including without limitation fire extended coverage, vandalism and malicious mischief, sprinkler leakage, flood, earth movement and collapse, and must be designed for the circumstances that may affect the Work.

This insurance must be written with limits not less than the insurable value of the Work at completion. The insurable value must include the aggregate value of Owner-furnished equipment and materials to be constructed or installed by Contractor.

This insurance must include coverage while equipment or materials are in warehouses, during installation, during testing, and after the Work is completed, but prior to Final Payment. This insurance must include coverage while Owner is occupying all or any part of the Work prior to Final Payment without the need for the insurance company's consent.

E. Owner's and Contractor's Protective Liability Insurance. Contractor, at its sole cost and expense, must purchase this Insurance in the name of Owner with a combined single limit for bodily injury and property damage of not less than $1,000,000.

F. Umbrella Policy. The required coverage may be in the form of an umbrella policy above $2,000,000 primary coverage. All umbrella policies must provide excess coverage over underlying insurance on a following-form basis so that, when any loss covered by the primary policy exceeds the limits under the primary policy, the excess or umbrella policy becomes effective to cover that loss.

☐

G. Deductible. Each policy must have a deductible or self-insured retention of not more than $_____.

H. Owner as Additional Insured. Owner must be named as an Additional Insured on the following policies:

Comprehensive General Liability
Comprehensive Motor Vehicle Liability
Builder's Risk Insurance
Owner's and Contractor's Protective Liability Insurance
Umbrella Policy

The Additional Insured endorsement must identify Owner as follows:

The Village of Winnetka and its boards, commissions, committees, authorities, employees, agencies, officers, voluntary associations, and other units operating under the jurisdiction and within the appointment of its budget.

I. Other Parties as Additional Insureds. In addition to Owner, the following parties must be named as additional insured on the following policies:

Additional Insured	Policy or Policies
Strand Associates, Inc.	Comprehensive General Liability, Comprehensive Motor Vehicle Liability, and Umbrella Policy
Winnetka Park District	Comprehensive General Liability, Comprehensive Motor Vehicle Liability, Owner's and Contractor's Protective Liability Insurance, and Contractor's Builders Risk Insurance

7. **Contract Price:**

SCHEDULE OF PRICES

☑ A. UNIT PRICE CONTRACT

Schedule of Pricing is located in the Bidder's Proposal Section.

B. Any items of Work not specifically listed or referred to in the Schedule of Prices, or not specifically included for payment under any Unit Price Item, shall be deemed incidental to the Contract Price, shall not be measured for payment, and shall not be paid for separately except as incidental to the Contract Price,

including without limitation extraordinary equipment repair, the cost of transportation, packing, cartage, and containers, the cost of preparing schedules and submittals, the cost or rental of small tools or buildings, the cost of utilities and sanitary conveniences, and any portion of the time of Bidder, its superintendents, or its office and engineering staff.

8. Progress Payments:

A. General. Owner must pay to Contractor 90 percent of the Value of Work, determined in the manner set forth below, installed and complete in place up to the day before the Pay Request, less the aggregate of all previous Progress Payments. The total amount of Progress Payments made prior to Final Acceptance by Owner may not exceed 90 percent of the Contract Price.

B. Value of Work. The Value of the Work will be determined as follows:

(1) Lump Sum Items. For all Work to be paid on a lump sum basis, Contractor must, not later than 10 days after execution of the Contract and before submitting its first Pay Request, submit to Owner a schedule showing the value of each component part of such Work in form and with substantiating data acceptable to Owner ("Breakdown Schedule"). The sum of the items listed in the Breakdown Schedule must equal the amount or amounts set forth in the Schedule of Prices for Lump Sum Work. An unbalanced Breakdown Schedule providing for overpayment of Contractor on component parts of the Work to be performed first will not be accepted. The Breakdown Schedule must be revised and resubmitted until acceptable to Owner. No payment may be made for any lump sum item until Contractor has submitted, and Owner has approved, an acceptable Breakdown Schedule.

Owner may require that the approved Breakdown Schedule be revised based on developments occurring during the provision and performance of the Work. If Contractor fails to submit a revised Breakdown Schedule that is acceptable to Owner, Owner will have the right either to suspend Progress and Final Payments for Lump Sum Work or to make such Payments based on Owner's determination of the value of the Work completed.

(2) Unit Price Items. For all Work to be paid on a unit price basis, the value of such Work will be determined by Owner on the basis of the actual number of acceptable units of Unit Price Items installed and complete in place, multiplied by the applicable Unit Price set forth in the Schedule of Prices. The actual number of acceptable units installed and complete in place will be measured on the basis described in Attachment B to the Contract or, in the absence of such description, on the basis determined by Owner. The number of units of Unit Price Items stated in the Schedule of Prices are Owner's estimate only and may not be used in

establishing the Progress or Final Payments due Contractor. The Contract Price will be adjusted to reflect the actual number of acceptable units of Unit Price Items installed and complete in place upon Final Acceptance.

C. Application of Payments. All Progress and Final Payments made by Owner to Contractor will be applied to the payment or reimbursement of the costs with respect to which they were paid and will not be applied to or used for any pre-existing or unrelated debt between Contractor and Owner or between Contractor and any third party.

9. Per Diem Administrative Charge:

☑ $1,000 per calendar day

☐ No Charge

10. Standard Specifications:

The Contract includes the following Illinois Department of Transportation standard specifications, each of which are incorporated into the Contract by reference:

☑ "State of Illinois Standard Specifications for Road and Bridge Construction" (SSRB)

☑ "Standard Specifications for Water and Sewer Main Construction in Illinois" (SSWS)

☑ "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD).

The Contract also includes Owner's Village of Winnetka Code and Building Codes.

References to any of these manuals, codes, and specifications means the latest editions effective on the date of the bid opening.

VILLAGE OF WINNETKA
CONTRACT FOR THE
RAVINES SANITARY PUMPING STATION
AND FORCE MAIN REHABILITATION

ATTACHMENT B

SPECIFICATIONS

TECHNICAL SPECIFICATIONS

VILLAGE OF WINNETKA
WINNETKA, ILLINOIS
RAVINES SANITARY PUMPING STATION
AND FORCE MAIN REHABILITATION
CONTRACT 026-003

[redacted]

12/16/25

Exp 11/30/27

Prepared by:

STRAND ASSOCIATES, INC.®
IDFPR No. 184-001273
1170 Houbolt Road
Joliet, IL 60431
www.strand.com

Issued for Bid
January 5, 2026

STRAND ASSOCIATES®
Excellence in Engineering℠

SECTION 00 01 10

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SUMMARY OF WORK

PART 1–GENERAL

1.01 DIVISION ONE

A. The requirements of Division 01 apply to all sections of the Contract.

1.02 PROJECT SCOPE

A. CONTRACTOR shall provide all items, articles, materials, operations or methods mentioned or scheduled on the Drawings or herein specified: including all labor, supervision, equipment, incidentals, taxes, and permits necessary to complete the Work as described within the Contract Documents. CONTRACTOR shall install all items provided by OWNER as mentioned or scheduled on the Drawings or herein specified.

1.03 CONTRACT DOCUMENTS–INTENT AND USE

A. Intent of Documents:
   1. Singular notations and Specifications shall be considered plural where application is reasonably inferred.
   2. Mention or indication of extent of work under any division or Specification section is done only for convenience of CONTRACTOR and shall not be construed as describing all work required under that division or section.
   3. Some individual sections may contain a list of related sections. The list of related sections in individual sections is provided for the convenience of CONTRACTOR and is not necessarily all-inclusive. CONTRACTOR may not rely upon this listing for determination of scope of work. Other sections of the Specifications not referenced in individual sections shall apply as required for proper performance of the Work.
   4. Command type sentences may be used in the Contract Documents. These sentences refer to and are directed to CONTRACTOR.
   5. Symbols for various elements and systems are shown on the Drawings. Should there be any doubt regarding the meaning or intent of the symbols used, a written interpretation shall be obtained from ENGINEER.

B. Use of Documents:
   1. CONTRACTOR shall examine all Specifications and Drawings for the Work, including those that may pertain to Work CONTRACTOR does not normally perform with its own forces.
   2. CONTRACTOR shall use all of the Project Drawings and Specifications:
      a. For a complete understanding of the Project.
      b. To determine the type of construction and systems required.
      c. For coordination with other contractors.
      d. To determine what other work may be involved in various parts or phases.
      e. To anticipate and notify others when work by others will be required.
      f. And all other relevant matters related to the project.

3. CONTRACTOR is also bound by all requirements of the Contract Documents which are applicable to, pertain to, or affect its Work as may be shown or inferred by the entire set of Project Drawings and Specifications.

1.04 CONTRACT ROLES

A. In addition to Contract roles defined previously in the Contract Documents, the following role is identified throughout the Specifications: Geotechnical Engineer–The individual or entity that prepared the geotechnical report that is referenced in this Section and that provides geotechnical engineering services, if any, during construction of the Project.

1.05 CONSTRUCTION REQUIREMENTS

A. In general, the following Contract Substantial and Final Completion Milestones shall be followed. See Agreement for specific date. For Substantial Completion, CONTRACTOR shall by that date, have the new force main and pumping station improvements operational. For Final Completion, all disturbed areas shall be restored , and CONTRACTOR shall have removed all equipment and materials, and cleaned the entire site substantially completed.

B. General Information and Requirements:
   1. Operation of any temporary stormwater and sanitary pumping equipment shall be the responsibility of CONTRACTOR. CONTRACTOR shall provide all temporary piping, bypass piping, grading, erosion and sediment control, and any other temporary measures required to maintain the operation and complete the Work.
   2. It shall be the responsibility of CONTRACTOR to not in any way impair the normal operation of existing facilities and utilities, regardless of the work underway. In general, this requires that new facilities and utilities be complete and ready for service or that temporary facilities and utilities be provided prior to removing existing units from service for modification or repair. CONTRACTOR shall provide all temporary piping, bypass pumping, and temporary construction required to complete the Work.
   3. Except as specified, OWNER will drain existing tanks to the level of the lowest existing drain line or will remove tank contents using existing piping and pumping equipment. Subsequent cleaning or further draining and/or pumping shall be provided by CONTRACTOR. If there exists sludge, grit, or other residue that cannot be drained or pumped in its present state, it shall be the responsibility of CONTRACTOR to remove and dispose of this material.
   4. Access: CONTRACTOR shall maintain roadways open at all times to meet OWNER's requirements. CONTRACTOR shall be responsible for maintaining roadways in drivable condition, including placement of temporary stone and gravel and providing drainage as necessary. Roadways shall be cleaned of construction site materials, soil, and debris as necessary.

C. Construction Sequence:
   1. The following construction sequence is provided as a general guideline for the information and benefit of CONTRACTOR. This construction sequence is not intended to dictate means, method of construction, or direct construction acclivities. This construction sequence is a conceptual general construction sequence with minimum recommended outage, shutdowns, and operating units to be maintained in service. The general construction sequence is projected to allow the Work to be completed. It is not intended to be all inclusive and does not list all work elements or details that are required to complete the Work. CONTRACTOR shall be responsible for implementing any

additional details required, including temporary piping, bypass pumping, or temporary construction at no additional cost to OWNER.

2. CONTRACTOR may, at its own expense, coordinate with OWNER to provide temporary sanitary pumping or dewatering efforts.
3. Installation of the new force main from the new bypass manhole at Ravines Sanitary Pumping Station to connection at the discharge manhole at Green Bay Road and Fisher Lane, including passing a pressure test, shall be completed before valve and piping replacements are started at the Ravines Sanitary Pumping Station valve vault. Contractor may use the new force main to maintain pumping operation at the Ravines Sanitary Pumping Station.

1.06 CONTRACTOR USE OF SITE

A. General:
   1. The “area of the site” referred to in these Specifications shall be as shown on the Drawings. If the “area of the site” is not shown, OWNER's property lines, the Project right-of-way and/or any easements obtained for the Project shall be considered the “area of the site.”
   2. Construction activities shall be confined within the “area of the site” limits.
   3. From the start of work to completion CONTRACTOR is responsible for the care of the site and the premises which are affected by operations of Work of this Contract.
   4. Except for permanent site improvements provided under the Contract, CONTRACTOR shall restore property disturbed during the Work, to the conditions which previously existed.
   5. Work in occupied spaces shall be restricted to specified Work and essential activities, such as making necessary connections and extending services or constructing temporary access ways. Such work shall be scheduled in advance with OWNER.

B. Parking and Deliveries:
   1. CONTRACTOR is responsible for control of traffic by vehicles and persons within the limits of its operations.
   2. Parking for employees, subcontractors, and agents of CONTRACTOR shall be in areas subject to approval of OWNER.
   3. Access to the site for delivery of construction material or equipment shall be subject to approval of OWNER.

1.07 EXISTING SERVICES, OVERHEAD UTILITIES, AND UNDERGROUND FACILITIES INCLUDING STRUCTURES

A. Interruption of existing services and systems including heating, ventilating, air conditioning, water, sanitary, lighting and power, signal and security will not be permitted unless specifically indicated otherwise. Provide temporary facilities to maintain services.

B. If deemed necessary by OWNER, such work shall be accomplished after OWNER’s normal office hours.

C. Work shall not commence until all labor, materials, and equipment are available so Work can continue without interruption or delay.

D. Should uncharted or incorrectly charted services or Underground Facilities be encountered during installation, notify OWNER and consult with utility owner immediately.

E. Cooperate with OWNER and utility companies in keeping respective services and Underground Facilities in operation and repair any damage.

F. CONTRACTOR shall not interrupt existing services and Underground Facilities occupied and used by OWNER or others, except when permitted in writing by OWNER.

G. Any accidental interruption of services and Underground Facilities shall be repaired immediately, including provision of temporary facilities until permanent repairs can be made.

H. Prior to any excavation, demolition, or drilling on site, CONTRACTOR shall contact owners of the Underground Facilities in and near the construction area of the intent to excavate, demolish, or drill. As part of this notification requirement, CONTRACTOR shall contact "JULIE" (811 or 1-800-892-0123). CONTRACTOR shall be aware that not all owners participate in "JULIE." A call to this agency shall not absolve CONTRACTOR of the requirements for contacting owners of all Underground Facilities in and near the construction area. CONTRACTOR shall give reasonable advance notice to "JULIE" and other owners for the notification which shall not be less than the minimum advance notification required.

I. Locations and elevations of services and Underground Facilities as shown on the Drawings are approximate. It shall be CONTRACTOR's responsibility to determine their exact location when in their vicinity. To this end, CONTRACTOR shall proceed with caution in the excavation and preparation of the Site so the exact location of services and Underground Facilities can be determined. CONTRACTOR shall include in the Contract Price any costs for temporary or permanent relocations of such services and Underground Facilities required to complete the Work unless specifically indicated otherwise in the Specifications.

J. Where potential grade conflicts might occur with existing services and Underground Facilities, CONTRACTOR shall uncover such services and Underground Facilities sufficiently in advance of construction so that elevations may be determined to allow any necessary adjustments to be made.

K. CONTRACTOR shall coordinate with overhead utility companies prior to the Work. CONTRACTOR shall provide all necessary temporary and permanent support relocation or temporary and permanent restraint to maintain overhead utilities in service.

L. CONTRACTOR shall keep an accurate and complete record of all such services and Underground Facilities encountered and shall provide OWNER a copy of this record. The record shall include a description of the item encountered, opinion as to conditions, and adequate measurements and depths so that the item can be located in the future.

M. CONTRACTOR shall inspect all services and Underground Facilities for condition and soundness. Unsound conditions shall be reported to OWNER immediately after exposing. CONTRACTOR shall not proceed with the Work until the service or facility owner has been notified. Service or facility owner shall then be given time to inspect and correct, if required, the service or Underground Facility. CONTRACTOR may make claim under the provisions of Article II of the Contract should CONTRACTOR feel a price or time adjustment is justified.

N. Any additional costs incurred because of failure of CONTRACTOR to report the condition of any and all existing services and Underground Facility encountered shall be paid for by CONTRACTOR.

O. Whenever ENGINEER feels it is necessary to explore and excavate to determine the location of existing services and Underground Facilities, CONTRACTOR shall make explorations and excavations for such purposes. If CONTRACTOR is required to perform additional Work in making the explorations and excavations, extra compensation will be allowed as provided for in the Contract.

1.08 PROTECTION OF WORK AND IMPROVEMENTS

A. CONTRACTOR shall protect the property of OWNER, existing improvements, and the Work installed by CONTRACTOR and others from abuse, damage, dust, debris, and other objectionable materials resulting from construction activities.

B. CONTRACTOR shall provide suitable covers, partitions, or other dust and fume containment devices to suit construction operations.

C. CONTRACTOR shall keep property, existing improvements, and the Work including structures, mains, fittings, and accessories free from dirt and foreign matter at all times.

D. CONTRACTOR shall provide temporary plugging of openings, holes, and pipe ends that are existing or that CONTRACTOR has installed.

E. Property, improvements, and Work damaged by CONTRACTOR shall be repaired or replaced by CONTRACTOR to the satisfaction of OWNER.

F. CONTRACTOR is cautioned that existing public and private streets, alleyways, and roads may not hold up to typical construction traffic or activities. CONTRACTOR shall repair or replace streets, alleyways, roads, and shoulders damaged by its construction activities to their original condition at CONTRACTOR's expense.

1.09 AVAILABILITY OF LANDS

A. Easements were not obtained for this Project. CONTRACTOR shall confine its operations, equipment and storage areas to the lands and rights-of-way in which the Project is to be located. CONTRACTOR may enter into written agreements with property owners for use of other lands during construction. Copies of such agreements shall be provided to OWNER.

1.10 SUBSURFACE CONDITIONS

A. Underground Facilities: Underground facilities are shown or indicated on the Drawings. Information and data regarding the presence or location of underground facilities are not intended to be categorized, identified, or defined as Technical Data, which is identified as such below with respect to existing subsurface conditions at or adjacent to the site.

B. Reliance by CONTRACTOR on Technical Data: CONTRACTOR may rely upon the accuracy of the Technical Data expressly identified below with respect to such reports and drawings, but such reports and drawings are not Contract Documents.

C. Limitations of Other Data and Documents: CONTRACTOR may not rely upon or make any claim against OWNER or ENGINEER, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:

1. The completeness of such reports and drawings for CONTRACTOR's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, and safety precautions and programs incident thereto;
2. Other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings;
3. The contents of other Site-related documents made available to CONTRACTOR such as record drawings from other projects at or adjacent to the Site, or OWNER's archival documents concerning the Site; or
4. Any CONTRACTOR interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions, or information.

D. The following table lists the reports of explorations and tests of subsurface conditions at or adjacent to the Site that contain Technical Data, and specifically identifies the Technical Data in the report upon which CONTRACTOR may rely:

Report Title	Date of Report	Technical Data
Geotechnical Engineering Services Report Ravines Force Main Rehabilitation and Replacement Fisher Lane & Sheridan Road, prepared by Rubino Engineering, Inc.	June 27, 2025	Boring methods, level of subsurface water, boring logs, laboratory test methods and results, and boring locations

ENGINEER accepts no responsibility for accuracy of the soil data or water level information. Soil information, included with these Contract Documents, was not obtained for the purposes of designing excavations and trenches. Soil information was used by ENGINEER for design purpose only. CONTRACTOR shall assure itself by personal examination as to subsurface conditions and shall provide its own investigations and make its own assumptions to comply with OSHA and any other applicable laws and regulations regarding excavation and trenching requirements.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

SECTION 01 29 00

CONTRACT CONSIDERATIONS

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Cash Allowances.
   2. Measurement and Payment–Unit Prices.

1.02 CASH ALLOWANCES

A. It is understood that CONTRACTOR has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such person or entities as may be acceptable to OWNER and ENGINEER.

B. Cash Allowances: CONTRACTOR agrees that:
   1. The cash allowances include the cost to CONTRACTOR (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
   2. CONTRACTOR's costs for unloading and handling on the Site, labor, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment for any of the foregoing will be valid.

C. Prior to final payment, an appropriate Change Order will be issued as recommended by ENGINEER to reflect actual amounts due CONTRACTOR for Work covered by allowances, and the Contract Price will be correspondingly adjusted.

D. Refer to sections of the specifications identified in the Bid Form for specific information on use of cash allowances.

E. The Bid shall include the amount equal to the specified quantity times the unit price.

1.03 MEASUREMENT AND PAYMENT–UNIT PRICES

A. Measurement methods are delineated in the individual Specification sections.

B. CONTRACTOR shall take measurements and compute quantities. ENGINEER will check measurements and quantities.

C. Incidental Items of Work: Any items of Work shown on the Drawings or called for in the Specifications, but not included in the Bid Form, shall be considered incidental items of Work. The cost of incidental items of Work shall be included in the prices bid for adjacent Work.

D. Cash Allowance for IDOT Individual Utility Permit Bond will be measured and paid for at the Contract Lump Sum bid. The Cash Allowance for obtaining the permit bond is $10,000.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

SECTION 01 31 00

COORDINATION, FIELD ENGINEERING, AND MEETINGS

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Coordination.
   2. Field Engineering.
   3. Progress Meetings.
   4. Preinstallation Meeting.
   5. Preconstruction Video.

1.02 COORDINATION

A. CONTRACTOR shall coordinate scheduling, submittals, and work of the various sections of the work to provide an efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later. See Section 01 11 00–Summary of Work for specific construction sequence.

B. CONTRACTOR shall verify utility requirements and characteristics of operating equipment are compatible with building utilities and coordinate Work of various sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.

C. CONTRACTOR shall coordinate space requirements and installation of mechanical and electrical work which are indicated diagrammatically on the Drawings and shall follow routing shown for pipes, ducts, and conduit as closely as practicable; place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

D. In finished areas, except as otherwise indicated, CONTRACTOR shall conceal pipes, ducts, and wiring within the construction and coordinate locations of fixtures and outlets with finish elements.

E. CONTRACTOR shall coordinate completion and cleanup of Work of separate sections in preparation for substantial completion and for portions of Work designated for OWNER's occupancy.

F. After OWNER occupancy of premises, CONTRACTOR shall coordinate access to Site for correction of defective Work and Work not in accordance with Contract Documents to minimize disruption of OWNER's activities.

1.03 FIELD ENGINEERING

A. CONTRACTOR shall locate and protect property stakes, legal survey monuments, benchmarks, and survey control and reference points. CONTRACTOR shall pay for replacement of disturbed property stakes and legal survey monuments by a Registered Land

Surveyor acceptable to OWNER and for replacement of benchmarks and survey control and reference points provided by ENGINEER.

B. CONTRACTOR shall provide field engineering services as required to establish elevations, lines, and levels utilizing recognized engineering survey practices.

C. CONTRACTOR shall furnish all required plummets and graduated poles to check all Work.

D. If stakes and boards have to be reset because of negligence of CONTRACTOR, CONTRACTOR shall bear the cost of such work.

E. If laser beam is used, CONTRACTOR shall check its Work against intermediate grade stakes provided between manholes. Prior to initial use of the laser, CONTRACTOR shall set up laser on ground surface and check line and gradient controls. Lasers not functioning properly shall be immediately removed.

F. CONTRACTOR shall be responsible for all lines, elevations, and measurements of buildings, structures, piping, utilities, and other work executed by CONTRACTOR under the Contract. CONTRACTOR must exercise proper precaution to verify figures before laying out the Work and will be held responsible for any error resulting from its failure to exercise such precaution.

1.04 PROGRESS MEETINGS

A. Progress meetings will be held throughout progress of the Work at intervals agreed to by OWNER, ENGINEER, and CONTRACTOR. Interval will generally be monthly.

B. CONTRACTOR's project manager, job superintendent, major subcontractors, and suppliers shall attend as appropriate to address agenda topics for each meeting. CONTRACTOR's representatives shall have authority to bind CONTRACTOR to decisions at the meetings.

C. The project schedule shall be updated monthly and shall be reviewed at each progress meeting.

D. CONTRACTOR shall also provide the following information in written form at each meeting.
   1. Construction progress, including:
      a. Activities completed this reporting period.
      b. Activities in progress this reporting period.
      c. Activities scheduled to commence this reporting period.
   2. Description of problem areas.
   3. Current and anticipated delays.
      a. Cause of the delay.
      b. Corrective action and schedule adjustments to correct the delay.
      c. Impact of the delay on other activities, on milestones, and on completion dates.
   4. Changes in construction sequence.

E. ENGINEER will prepare and distribute minutes to all attending parties.

1.05 PREINSTALLATION MEETING

A. A preinstallation meeting is required before CONTRACTOR begins the pumping station improvements. The meeting shall be coordinated with OWNER and ENGINEER.

B. When required in individual specification sections, CONTRACTOR shall convene a preinstallation meeting at Work Site prior to commencing Work of the section.

C. CONTRACTOR shall require attendance of parties directly affecting or affected by work of the specific section.

D. CONTRACTOR shall notify ENGINEER seven days in advance of meeting date.

E. CONTRACTOR shall prepare agenda and preside at meeting:
   1. Review conditions of installation, preparation, and installation procedures.
   2. Review coordination with related work.

F. CONTRACTOR shall record minutes and distribute copies to participants and those affected by decisions made within one week after meeting.

1.06 PRECONSTRUCTION VIDEO

A. Prior to mobilization at the site, CONTRACTOR shall furnish to ENGINEER a high-resolution color audio-video recording of all planned construction areas, including but not limited to streets, driveways, sidewalks, curbs, fencing, visible utilities, retaining structures, and adjacent building structures. The purpose of the video is to document existing conditions and to provide a fair measure of required restoration. Care should be taken to record all existing conditions that exhibit deterioration, imperfections, structural failures, or situations that would be considered substandard.

B. The video recording shall be performed by a professional firm specializing in audio-video work. The videos shall be high quality, color, and high-resolution. The video shall be provided in a digitized format that is supported by Window Media Player. The videos shall be provided via USB drive, or other media requested by OWNER. Temporary lighting shall be provided as necessary to properly video areas where natural lighting is insufficient (indoors, shadows, etc.). The videos shall include an audio soundtrack, to provide the following information.
   1. Detailed description of location being viewed referenced to Contract Drawings (i.e., station number, building designation, pipeline route, etc.).
   2. Direction (N, S, E, W, looking up, looking down, etc.) of camera view.
   3. Date, time, temperature, and environmental conditions at time of video.

C. Video recording shall not be performed during inclement weather or when the ground is covered partially of totally with snow, ice, leaves, etc.

D. As many videos as are necessary to satisfy the requirements of this section shall be prepared. The original videos shall be submitted to ENGINEER accompanied by a detailed log of the contents of each video. The log should include location descriptions to facilitate the quick location of information contained in the videos. The videos will be maintained by ENGINEER during construction and may be viewed at any time by CONTRACTOR upon request. Upon final acceptance, the videos will become permanent property of OWNER.

E. All costs associated with this shall be included in the Lump Sum Bid for this Work.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

SECTION 01 33 00

SUBMITTALS

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Whenever possible throughout the Contract Documents, the minimum acceptable quality of workmanship and materials has been defined either by manufacturer's name and catalog number or by reference to recognized industry standards.
   2. To facilitate CONTRACTOR's understanding of the design intent, procedures have been established for advance submittal of design data and for its review or rejection by ENGINEER.
   3. The type of submittal requirements specified in this section include construction progress schedule, submittal schedule, shop drawings, product data, samples, maintenance manuals, and other miscellaneous work-related submittals.

B. Related work described elsewhere: More detailed requirements for submittals are described in other sections of these Specifications for some materials and equipment. They are to be considered additional requirements to supplement the requirements specified in this section. Submittals shall conform to Article I of the Contract.

C. Definitions: "Electronic Submittal" is defined as any submittal transmitted electronically to ENGINEER for review.

1.02 IDENTIFICATION OF SUBMITTALS

A. CONTRACTOR shall completely identify each submittal and resubmittal by showing at least the following information:
   1. Name and address of submitter, plus name and telephone number of the individual who may be contacted for further information.
   2. Name and location of project and identification number.
   3. Drawing number and Specifications section number to which the submittal applies.
   4. Include the date of each submittal or resubmittal.

1.03 GROUPING OF SUBMITTALS

A. Unless otherwise specifically permitted by ENGINEER, CONTRACTOR shall make all submittals in groups containing all associated items so that information is available for checking each item when it is received.

B. Partial submittals may be rejected as not complying with the provisions of the Contract Documents.

1.04 TIMING OF SUBMITTALS

A. CONTRACTOR shall make all submittals far enough in advance of scheduled dates of installation to provide required time for reviews, for securing necessary approval, for possible revision and resubmittal, and for placing orders and securing delivery.

B. The review period for submittals that are received after 3 P.M. shall commence on the following business day.

1.05 CONSTRUCTION PROGRESS AND SUBMITTAL SCHEDULES

A. Submit preliminary schedules within 10 days of the Effective Date of the Contract.

B. Revise schedules incorporating any comments provided at the schedule review conference and resubmit.

C. As a minimum, the construction progress schedule shall consist of a horizontal bar chart with a separate line for each major portion of Work or operation, identifying first workday of each week.

D. Show complete sequence of construction by activity, identifying Work of separate stages and other logically grouped activities. Indicate the early and late start, early and late finish, float dates, and duration for each activity. Identify activities that are on the critical path.

E. Include line items for milestones (if any), Substantial, and Final Completion.

F. Submit updated schedules with each Application for Payment, identifying changes since previous version.

G. Indicate estimated percentage of completion for each item of Work at each submission.

H. Indicate submittal dates required for shop drawings, product data, samples, and product delivery dates.

1.06 SHOP DRAWINGS

A. Shop drawings shall include specially prepared technical data for this project including drawings, diagrams, performance curves, data sheets, schedules, templates, patterns, reports, calculations, instructions, measurements, and similar information not in standard printed form for general application to a range of similar projects. Shop drawings shall be submitted for all manufactured or fabricated items. See individual technical sections for special requirements.

B. CONTRACTOR shall make all shop drawings accurately to scale and sufficiently large to show all pertinent aspects of the item and its method of connection to the work.

C. Shop drawings shall be checked, approved, and stamped by CONTRACTOR in accordance with the Contract before transmittal to ENGINEER for review and approval.

D. Complete shop drawings and descriptive data shall be submitted on all manufactured or fabricated items prior to 50% completion of the Work. Applications for payment beyond 50% of the Contract amount will not be recommended for payment until all shop drawings are submitted, including color hard copies if requested by OWNER, or a revised schedule for any remaining submittals is agreed to by OWNER and ENGINEER.

E. CONTRACTOR shall submit shop drawings following the electronic submittal procedure described below.

F. Shop drawings submitted to ENGINEER will be reviewed and stamped “Approved,” “Approved as Noted,” “Approved as Noted-Resubmit,” or “Not Approved.” CONTRACTOR shall resubmit shop drawings stamped “Approved as Noted-Resubmit” and “Not Approved,” and will continue this process until shop drawings are stamped “Approved” or “Approved as Noted.” If Drawings are stamped “Approved as Noted-Resubmit,” fabrication may proceed in accordance with the marked-up shop drawings. Installation shall not proceed until shop drawings have been resubmitted and stamped “Approved” or “Approved as Noted.”

G. If shop drawings are stamped “Approved as Noted” or “Approved as Noted-Resubmit” and CONTRACTOR does not agree with revisions or cannot conform with revisions, fabrication shall not proceed and shop drawings shall be resubmitted with explanation of CONTRACTOR’s position.

H. All shop drawings used for construction site activities shall bear the “Approved” or “Approved as Noted” stamp of ENGINEER.

I. PDF Submittal Procedures:
   1. Summary:
      a. Shop drawing and product data submittals shall be transmitted to ENGINEER in electronic (PDF) format.
      b. The intent of PDF submittals is to expedite the construction process by reducing paperwork, improving information flow, and decreasing turnaround time.
      c. The PDF submittal process is not intended for color samples, color charts, or physical material samples.
   2. Procedures:
      a. CONTRACTOR shall review and apply a stamp certifying that the submittal complies with the requirements of the Contract Documents including verification of manufacturer/product, dimensions and coordination of information with other parts of the work.
      b. CONTRACTOR shall transmit each cover letter and submittal to ENGINEER as an e-mail attachment.
      c. ENGINEER will return the reviewed shop drawing via e-mail with a transmittal letter, after review, indicating the status of the shop drawing review.
      d. Distribution of reviewed submittals to subcontractors and suppliers is the responsibility of CONTRACTOR.
      e. Electronically submitted shop drawings shall follow the following format:
         (1) Filenames for the shop drawing submittals shall follow a XX XX XX.YYY-Z. Description convention where XX XX XX is the Specification section number, YYY is the submittal number, .Z is the resubmittal number, and description is a short description of what the submittal includes. Submittals shall be consecutively numbered in direct sequence of submittal. Resubmittals shall be consecutively numbered with the first submittal numbered with a -0 and the first resubmittal numbered with a -1. Example file name: 03 20 00.016-1. Structure 10 Concrete Reinforcement. This would be the first revision of the sixteenth submittal and contain information on concrete reinforcement.
         (2) All files shall be delivered in PDF format with a minimum resolution of 300 dpi unless otherwise requested by ENGINEER. Scanned in material shall be scanned in color and any markings by CONTRACTOR shall be made in red. Pages shall be rotated to the appropriate position for easy reading on a computer monitor such that the majority of text is vertical.

(3) Files shall be delivered without security features activated.
(4) Shop Drawings shall be uploaded as individual files. All pages of one submittal should be contained in one file.
(5) The file shall open to a cover page containing, at a minimum, the following information:
(a) CONTRACTOR's stamp.
(b) Name, e-mail, and telephone number of the individual who may be contacted for further information.
(c) Project number.
(d) Submittal number.
(e) Submission date, if resubmittal, all previous submission dates.
(f) Index detailing contents and the total number of pages in the submittal.

f. Once a shop drawing has been "Approved" or "Approved as Noted," CONTRACTOR shall provide three hard color copies of the "Approved" or "Approved as Noted" shop drawings to ENGINEER. CONTRACTOR is responsible for the hard copy color replication of ENGINEER's "Approved" or "Approved as Noted" shop drawings for use by CONTRACTOR. Hard copy shop drawings shall be submitted in 3-ring binders or 3-tab report covers.

J. Shop drawings shall include verification that the item meets applicable codes and standards.

1.07 COLORS AND PATTERNS

A. Unless the precise color and pattern is specifically described in the Contract Documents, whenever a choice of color or pattern is available in a specified product, CONTRACTOR shall submit accurate color charts and pattern charts to ENGINEER for OWNER's review and selection.

B. Unless all available colors and patterns have identical wearing capabilities and are identically suited for the installation, CONTRACTOR shall completely describe the relative capabilities of each.

1.08 PRODUCT DATA

A. CONTRACTOR shall provide product data as required to supplement shop drawings.

B. Product data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by CONTRACTOR to illustrate a material, product, or system for some portion of the work.

C. CONTRACTOR shall collect required product data into one submittal for each unit of work or system.

D. CONTRACTOR shall include manufacturer's standard printed recommendations for application and use, compliance with standards, performance characteristics, wiring and piping diagrams and controls, component parts, finishes, dimensions, required clearances, and other special coordination requirements.

E. CONTRACTOR shall mark each copy of standard printed data to identify pertinent products, models, options, and other data.

F. CONTRACTOR shall supplement manufacturer's standard data to provide information unique to the work.

1.09 RESUBMISSION REQUIREMENTS

A. Make any corrections or changes in the submittals required by ENGINEER.

B. Shop Drawings and Product Data:
   1. Revise initial drawings or data and resubmit as specified for initial submittal.
   2. Itemize in a cover letter any changes which have been made other than those requested by ENGINEER.

1.10 MANUFACTURER'S DIRECTIONS

A. Manufactured articles, materials, and equipment shall be stored, commissioned, operated, applied, installed, connected, erected, used, cleaned, and conditioned as directed by the manufacturer, unless specified to the contrary.

B. Wherever Specifications call for work to be performed or materials to be installed in accordance with the manufacturer's printed instructions or directions, CONTRACTOR shall furnish copies as required for shop drawings of those instructions or directions to ENGINEER before installing the material or performing the work.

1.11 MAINTENANCE MANUAL

A. Prior to 75% completion of the Contract or at a minimum of 45 days prior to the scheduled start-up date of any individual item of equipment, whichever is earlier, CONTRACTOR shall furnish to ENGINEER two complete color hard copies of a maintenance manual for all equipment furnished. Applications for payment beyond 75% of the contract amount will not be recommended for payment until all maintenance manuals are submitted or a revised schedule for remaining maintenance manuals is agreed to by OWNER and ENGINEER.

B. The manuals shall include manufacturer's instructions for maintenance and operation for each item of mechanical and electrical equipment. Manuals shall be specific for the equipment as installed; provide project specific inserts as required. Manuals shall contain: operation instructions, lubrication schedules, types and quantities, preventative maintenance program, spare parts list, parts lists, I.D. No. and exploded views, assembly instructions, parts supplier location, trouble shooting and startup procedures and, where applicable, test data and curves.

C. All sheets shall have reduced dimensions as described for shop drawings, and shall be furnished in 3-ring binders or 3-tab report covers.

D. CONTRACTOR is responsible for producing an electronic version of the Equipment Operations and Maintenance (O&M) Manuals Manual. The Electronic Equipment O&M Manual shall be delivered in Portable Document Format (PDF). The entire manual may be converted to PDF via scanning or other method of conversion. Drawings or other graphics must be converted to PDF format and made part of the PDF document. CONTRACTOR shall provide all Equipment O&M Manuals in the electronic format as defined below.

E. The filename for the Equipment O&M Manual submittal will be provided with the request for final Equipment O&M Manuals. Filenames use the "eight dot three" convention

(XX XX XX_YY.PDF) where XX XX XX is the specification section number and YY is an ID number. No one file shall be larger than 10 MB. If technical problems require that the submittal be divided into more than one file, a letter extension shall be added to the end of each filename.

F. The number of files shall be kept to a minimum. Equipment O&M Manuals that span more than one file shall have the final Bookmark “Return to Table of Contents” which shall take the User to the first file on the Equipment O&M Manual.

G. All text (word processed), spreadsheets, and electronic graphics shall be delivered in portable document format (*.PDF). The resolution of all scanned images shall be a minimum of 300 dpi unless otherwise requested by ENGINEER. Scanned images shall be processed with the “original image with hidden text” option (Adobe Acrobat 6 or higher). This results in a clear image and provides for optical character recognition (OCR) and word search functionality. Graphical files shall be fully searchable. All submittals must be indexed with the Adobe Catalog feature. Placement and structure of index files shall be in accordance with Adobe's recommendations to minimize problems when transferring files. Successful searches for words or strings in the PDF document shall demonstrate proof of OCR.

H. Rotate pages viewed in landscape to the appropriate position for easy reading on a computer monitor.

I. Bookmarks shall be created in the navigation frame for each entry in the Table of Contents. Three levels deep is usually enough (i.e., “Chapter,” “Section,” “Subsection”); however, complex submittals like instrumentation and electrical may be required at the discretion of ENGINEER. When setting bookmarks for Chapter level heading, the page shall be displayed at Full Page. Section and Subsection level heading pages shall be displayed as a magnified view. Bookmarks shall be displayed as subordinate to other bookmarks in their hierarchy set so that only the Chapter level headings are displayed.

J. Thumbnails shall be generated and embedded in each PDF file.

K. Files shall be delivered without Security features activated. Password protected files will be unacceptable.

L. The opening view for PDF files shall be set as follows:
   1. Initial View: Bookmarks and Page
   2. Magnification: Fit In Window
   3. Page Layout: Single Page

M. The file shall open to the cover page of the Equipment O&M Manual with bookmarks to the left. The first bookmark shall be the name of Equipment O&M Manual.

N. O&M Manual PDFs shall be delivered electronically.

O. CONTRACTOR shall reprocess any portion of the document that does not view or print to OWNER's satisfaction.

P. CONTRACTOR is fully responsible for obtaining any and all copyright permissions associated with conversion of this information to electronic format.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

SECTION 01 41 00

REGULATORY REQUIREMENTS

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
1. OSHA Requirements.
2. 35 III. Adm. Code 652.
3. 35 Ill. Adm. Code 1100.
4. Roadway Limits.
5. Permits.
6. Wage Rates.

1.02 OSHA REQUIREMENTS

A. All work including site safety, equipment, materials, and fabricated items provided under the Contract shall comply with the provisions of the “Occupational Safety and Health Act.”

1.03 35 ILL. ADM. CODE 652

A. CONTRACTOR shall comply with 35 Ill. Adm. Code 652 during the project and shall use protective coatings personnel to carry out corrosion prevention and mitigation methods and use inspectors so that best practices and standards are adhered to.

1.04 35 ILL. ADM. CODE 1100

A. CONTRACTOR shall comply with 35 Ill. Adm. Code 1100 when disposing of clean construction or demolition debris (CCDD) or uncontaminated soil at a CCDD or uncontaminated soil fill operation.

1.05 ROADWAY LIMITS

A. CONTRACTOR shall comply with roadway weight restrictions including seasonal weight restrictions.

1.06 PERMITS

A. The following permits were obtained by OWNER:
1. Illinois Environmental Protection Agency Application for Construction.
2. Metropolitan Water Reclamation District of Greater Chicago Watershed Management Permit.

B. An Illinois Department of Transportation Individual Utility Permit Bond of $100,000 is required. The cost of this permit bond shall be included in CONTRACTOR's Bid. See Section 01 29 00–Contract Considerations for Cash Allowances.

C. These permits will be provided to the awarded CONTRACTOR. CONTRACTOR shall comply with all provisions of these permits and shall be responsible for notifications as required by these permits. CONTRACTOR shall obtain all other permits required for the Work. Where the requirements of any permit is more restrictive than the Drawings or the Specifications, the permit requirements shall govern.

D. Any permits required for dewatering operations shall be obtained and paid for by CONTRACTOR.

1.07 WAGE RATES

A. CONTRACTOR and any subcontractor shall pay all laborers, workers, and mechanics performing work under the Contract not less than the prevailing wage rates adopted by OWNER or determined by the court on review and filed with the Secretary of State in Springfield. A copy of the Schedule of Prevailing Wage Rates is attached hereto.

B. CONTRACTOR shall keep or cause to be kept a record of employees and wages paid as required by the Prevailing Wage Act (820 ILCS 130/1-12). CONTRACTOR shall also require each subcontractor employed on the project to keep these same records. In accordance with Illinois Public Act 94-0515, CONTRACTOR shall submit certified payroll records on a monthly basis to OWNER, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that CONTRACTOR is aware that filing records he or she knows to be false is a Class B misdemeanor.

C. The certified payroll records shall include for every worker employed on the project the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, number of hours worked each day, and starting and ending time of work each day.

D. If at the time this Contract is executed, or if during the term of this Contract, there is excessive unemployment in Illinois as defined in the Employment of Illinois Workers on Public Works Act, 30 ILCS 570, as two consecutive months of unemployment exceeding 5%, CONTRACTOR agrees to employ a work force that is comprised of at least 90% Illinois laborers. An “Illinois laborer” is defined as any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident.

E. See Wage Rate Forms bound at the end of Division 01.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

SECTION 01 42 00

REFERENCE STANDARDS AND DEFINITIONS

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Reference Standards:
      a. Throughout the Contract Documents, reference is made to codes and standards which establish qualities and types of workmanship and materials, and which establish methods for workmanship and materials, and which establish methods for testing and reporting on the pertinent characteristics.
      b. Where materials or workmanship are required by these Contract Documents to meet or exceed the specifically named code or standard, it is CONTRACTOR's responsibility to provide materials and workmanship which meet or exceed that specifically named code or standard.
      c. It is also CONTRACTOR's responsibility, when so required by the Contract Documents, to deliver to ENGINEER all required proof that the material or workmanship, or both, meet or exceed the requirements of the specifically named code or standard.
   2. Definitions:
      a. A substantial amount of specification language constitutes definitions for terms found in other Contract Documents, including the Drawings which must be recognized as diagrammatic in nature and not completely descriptive of requirements indicated thereon.
      b. Certain terms used in the Contract Documents are defined generally in this section to supplement definitions of the Agreement, Contract, Supplementary Schedule of Contract Terms, and other general contract documents.
      c. Definitions and explanations of this section are not necessarily either complete or exclusive, but are general for the Work.

B. Related Work Described Elsewhere: The specific naming of codes or standards occurs on the Drawings and in other sections of these Specifications.

1.02 QUALITY ASSURANCE

A. Familiarity with Pertinent Codes and Standards:
   1. It is CONTRACTOR's responsibility to verify the requirements of the specifically named codes and standards and to verify that the items procured for use in this Work meet or exceed the specified requirements.
   2. When required by individual sections of these Specifications, CONTRACTOR shall obtain a copy of each pertinent code or standard and maintain the copies at the job site during submittals, planning, and progress of the Work until Substantial Completion of the Work is attained.

B. Overlapping or Conflicting Requirements:
   1. Where compliance with two or more industry standards or sets of requirements are specified, and the overlapping of those standards or requirements establishes different

or conflicting minimums or levels of quality, the most stringent requirement (which is generally recognized to be also most costly) is intended and will be enforced, unless more detailed language written directly into Contract Documents clearly indicates that a less stringent requirement is acceptable.

2. Refer all uncertainties to ENGINEER for decision before proceeding.

1.03 REFERENCE STANDARDS

A. Applicable standards of the construction industry are made a part of the Contract Documents by reference as if copied directly into the Contract Documents, or as if published copies were bound herewith. See the Contract for additional provisions regarding references.

B. Standards referenced directly in the Contract Documents or by governing regulation, have precedence over nonreferenced standards which are recognized in industry for applicability to the Work.

C. Nonreference standards are hereby defined to have no particular applicability to the Work except as a general measurement of whether the Work complies with standards recognized in the construction industry.

D. Reference standards and codes listed in these Specifications may include, but are not necessarily limited to, standards or codes published by the following agencies and organizations:

1. AA — Aluminum Association
   1525 Wilson Boulevard, Arlington, VA 22209

2. AAMA — American Architectural Manufacturer's Association
   1827 Walden Office Square Suite 550, Schaumberg, IL 60173-4268

3. AASHTO — American Association of State Highway & Transportation Officials
   444 North Capitol Street NW Suite 249, Washington, DC 20001

4. ACI — American Concrete Institute
   38800 Country Club Drive, Farmington Hills, MI 48331-3439

5. AI — Asphalt Institute
   2696 Research Park Drive, Lexington, KY 40511-8480

6. AISC — American Institute of Steel Construction
   One East Wacker Drive Suite 700, Chicago, IL 60601-1802

7. AISI — American Iron and Steel Institute
   25 Massachusetts Avenue NW Suite 800, Washington, DC 20001

8. ANSI — American National Standards Institute
   25 West 43rd Street, New York, NY 10036

9. APA	American Plywood Association 7011 South 19th, Tacoma, WA 98466-5333
10. API	American Petroleum Institute 1220 L Street NW, Washington, DC 20005-4070
11. ARI	Air-Conditioning & Refrigeration Institute 4100 North Fairfax Drive Suite 200, Arlington, VA 22203
12. ASHRAE	American Society of Heating, Refrigerating, and Air Conditioning Engineers 1791 Tullie Circle NE, Atlanta, GA 30329
13. ASME	American Society of Mechanical Engineers Two Park Avenue, New York, NY 10016-5990
14. ASSE	American Society of Sanitary Engineering 901 Canterbury Suite A, Westlake, OH 44145
15. ASTM	ASTM International 100 Barr Harbor Drive, West Conshohoken, PA 19428-2959
16. AWI	Architectural Woodwork Institute 46179 Westlake Drive Suite 120, Potomac Falls, VA 20165-5874
17. AWPA	American Wood Protection Association P.O. Box 361784, Birmingham, AL 35236-1784
18. AWS	American Welding Society 8669 Doral Boulevard Suite 130, Doral, FL 33166
19. AWWA	American Water Works Association 6666 West Quincy Avenue, Denver, CO 80235
20. BHMA	Builder's Hardware Manufacturers Association 355 Lexington Avenue 15th floor, New York, NY 10017
21. BIA	Brick Industry Association 1850 Centennial Park Drive Suite 301, Reston, VA 20191
22. CRSI	Concrete Reinforcing Steel Institute 9333 North Plum Grove Road, Schaumburg, IL 60173
23. DOT	U.S. Department of Transportation 1200 New Jersey Avenue, SE, Washington, DC 20590
24. EJMA	Expansion Joint Manufacturers Association 25 North Broadway, Tarrytown, NY 10591

25. FM	FM Global FM Global Corporate Offices, 270 Central Avenue, Johnston, RI 02919
26. FTI	Facing Tile Institute Box 8880, Canton, OH 44711
27. GA	Gypsum Association 6525 Belcrest Road Suite 480, Hyattsville, MD 20782
28. GANA	Glass Association of North America 800 SW Jackson Street Suite 1500, Topeka, KS 66612-1200
29. ICC	International Code Council 500 New Jersey Avenue NW 6th Floor, Washington, DC 20001
30. IES	Illuminating Engineering Society 120 Wall Street, Floor 17, New York, NY 10005-4001
31. MIL	Military Specifications Naval Publications and Forms Center 5801 Tabor Avenue, Philadelphia, PA 19120
32. NAAMM	National Association of Architectural Metal Manufacturers 800 Roosevelt Road Building C Suite 312, Glen Ellyn, IL 60137
33. NCMA	National Concrete Masonry Association 13750 Sunrise Valley Drive, Herndon, VA 20171-4662
34. NECA	NECA National Electrical Contractors Association 3 Bethesda Metro Center Suite 1100, Bethesda, MD 20814
35. NEMA	National Electrical Manufacturers Association 1300 North 17th Street Suite 1752, Rosslyn, VA 22209
36. NFPA	National Fire Protection Association 1 Batterymarch Park, Quincy, MA 02169-7471
37. NIST	National Institute of Standards and Technology (U.S. Department of Commerce), 100 Bureau Drive, Stop 1070 Gaithersburg, MD 20899-1070
38. NRCA	National Roofing Contractors Association 10255 West Higgins Road Suite 600, Rosemont, IL 60018-5607
39. NSF	National Sanitation Foundation International P.O. Box 130140, 789 North Dixboro Road, Ann Arbor, MI 48113-0140

40. OSHA — Occupational Safety & Health Administration
200 Constitution Avenue NW, Washington, DC 20210

41. PCA — Portland Cement Association
5420 Old Orchard Road, Skokie, IL 60077

42. PCI — Prestressed Concrete Institute
200 West Adams Street Suite 2100, Chicago, IL 60606

43. SAE — Society of Automotive Engineers
SAE World Headquarters
400 Commonwealth Drive, Warrendale, PA 15096-0001

44. SDI — Steel Deck Institute
P.O. Box 25, Fox River Grove, IL 60021

45. SDI — Steel Door Institute
30200 Detroit Road, Westlake, OH 44145-1987

46. SIGMA — Sealed Insulating Glass Manufacturers Assoc.
401 North Michigan Avenue Suite 2400, Chicago, IL 60611

47. SJI — Steel Joist Institute
234 Cheves Street, Florence, SC 29501

48. SMACNA — Sheet Metal and Air Conditioning
Contractor's National Association
4201 Lafayette Center Drive, Chantilly, VA 20151-1219

49. SSPC — Society for Protective Coatings
40 24th Street 6th Floor, Pittsburgh, PA 15222-4656

50. TCA — Tile Council of America
100 Clemson Research Boulevard, Anderson, SC 29625

51. UL — Underwriters Laboratories
333 Pfingston Road; Northbrook, IL 60062

1.04 SUBMITTALS

A. For OWNER's records, CONTRACTOR shall submit copies of permits, licenses, certifications, inspection reports, and similar documents, correspondence and records established in conjunction with compliance with standards and regulations bearing upon performance of the Work.

1.05 DEFINITIONS

A. Indicated:
   1. The term “indicated” is a cross-reference to details, notes, or schedules on the Drawings, to other paragraphs or schedules in the Specifications and to similar means of recording requirements in the Contract Documents.
   2. Where terms such as “shown,” “noted,” “scheduled,” and “specified” are used in lieu of “indicated,” it is for the purpose of helping the reader locate cross-reference, and no limitation is intended except as specifically noted.

B. Approve (or Words of Similar Nature):
   1. Where used in conjunction with ENGINEER's response to submittals, requests, applications, inquiries, reports, and claims by CONTRACTOR, the meaning of the term “approve” will be held to the limitation of ENGINEER's responsibilities and duties as specified in the Supplemental Schedule of Contract Terms.
   2. In no case will “approval” by ENGINEER be interpreted as a release of CONTRACTOR from responsibility to fulfill requirements of the Contract Documents.

C. Minimum Requirements:
   1. Indicated requirements are for a specific minimum acceptable level of quality or quantity, as recognized in the industry.
   2. Actual work must comply with (or within specified tolerances) or exceed minimums.
   3. CONTRACTOR shall refer uncertainties to ENGINEER before proceeding.

D. Abbreviations: Abbreviations, where not defined in the Contract Documents, will be interpreted to mean the normal construction industry terminology.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

SECTION 01 45 00

QUALITY CONTROL

PART 1–GENERAL

1.01 SUMMARY

A. Work Includes:
   1. Quality Assurance–Control of Installation.
   2. Tolerances.
   3. Manufacturers' Field Services and Reports.

1.02 QUALITY ASSURANCE–CONTROL OF INSTALLATION

A. CONTRACTOR shall monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship to produce Work of specified quality.

B. CONTRACTOR shall comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, CONTRACTOR shall request clarification from ENGINEER before proceeding.

D. CONTRACTOR shall comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Work shall be performed by persons qualified to produce workmanship of specified quality.

F. CONTRACTOR shall secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

1.03 TOLERANCES

A. CONTRACTOR shall monitor tolerance control of installed products to produce acceptable work and shall not permit tolerances to accumulate.

B. CONTRACTOR shall comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, CONTRACTOR shall request clarification from ENGINEER before proceeding.

C. CONTRACTOR shall adjust products to appropriate dimensions; position before securing products in place.

1.04 MANUFACTURERS' FIELD SERVICES AND REPORTS

A. When specified in individual specification sections or when requested by ENGINEER, CONTRACTOR shall require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, and quality of workmanship.

B. CONTRACTOR shall submit qualifications of observer to ENGINEER 30 days in advance of required observations.

C. CONTRACTOR shall report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

D. CONTRACTOR shall submit report in duplicate within 30 days of observation to ENGINEER for information.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

SECTION 01 50 00

TEMPORARY FACILITIES

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Temporary Utilities.
   2. Removal of Temporary Facilities.
   3. Temporary Stockpiling of Excavated Fill Material Storage Area.

B. CONTRACTOR shall arrange for and provide temporary facilities as required for proper and expeditious prosecution of the Work.

C. CONTRACTOR shall pay all costs, except as otherwise specified, until final acceptance of the Work unless OWNER makes arrangements for use of completed portions of the Work after substantial completion in accordance with the provisions of the Contract.

D. CONTRACTOR shall make all temporary connections to utilities and services in locations acceptable to OWNER and local authorities having appropriate jurisdiction.
   1. Furnish all necessary labor and materials.
   2. Make all installations in a manner subject to the acceptance of such authorities and OWNER.
   3. Maintain such connections.
   4. Remove temporary installation and connection when no longer required.
   5. Restore services and sources of supply to proper operating conditions.

1.02 TEMPORARY UTILITIES

A. Temporary Toilets: CONTRACTOR shall provide and maintain sanitary temporary chemical toilets located where approved by OWNER and in sufficient number required for the work force employed by CONTRACTOR.

B. Weather Protection and Temporary Heat: CONTRACTOR shall provide weather protection to protect the Work from damage because of freezing, rain, snow, and other inclement weather.

C. Temporary Water: CONTRACTOR shall supply its own water during construction. CONTRACTOR shall also provide its own piping, valves, and appurtenances for its requirements.

D. Temporary Fire Protection: CONTRACTOR and Subcontractor(s) who maintain or provide an enclosed shed or trailer shall provide and maintain in operating order in each shed or trailer a minimum of one fire extinguisher. More extinguishers shall be provided as necessary. Fire extinguishers shall be minimum dry chemical, nonfreezing-type, UL rating 2A-30BC, with 10-pound capacity for Class A, B, and C fires.

E. CONTRACTOR's and Subcontractor(s)' personnel shall refrain from smoking during excavation, laying pipe, backfilling, and other work at the Site which may involve potential contact with explosive vapors or gasoline products.

1.03 REMOVAL OF TEMPORARY FACILITIES

A. Remove temporary materials, equipment, services, and construction as soon as practicable but no later than just prior to final completion inspection.

B. Clean and repair damage caused by installation or use of temporary facilities and restore existing facilities used during construction to specified, or to original, condition.

1.04 TEMPORARY STOCKPILING OF EXCAVATED FILL MATERIAL STORAGE AREA

A. If excavated fill materials are identified as requiring testing, CONTRACTOR shall furnish and maintain a storage area for the temporary stockpiling of excavated fill materials which are potentially hazardous and are undergoing testing per Section 31 23 00–Excavation, Fill, Backfill, and Grading. The storage area shall be located on Site where acceptable to OWNER. The area shall be lined with 20 mil thick (minimum) plastic sheeting to prevent migration of materials or leachate from the area. Surface runoff shall be directed around the area. Plastic sheeting (10 mil minimum thickness) shall be used as a cover to prevent precipitation from entering area. Seams for the plastic cover and liner shall be installed to provide a watertight system. CONTRACTOR shall provide sandbags or other ballast as required to secure the plastic sheeting. Stockpiled materials shall be stored such that solids or leachate from different areas of the Site do not mix. Costs to provide and install the temporary storage area and dismantling at the end of construction shall be included in the Removal and Disposal of Non-CCDD Material (Section 31 23 00–Excavation, Fill, Backfill, and Grading).

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

3.01 MAINTENANCE OF TRAFFIC SIGNS

A. Maintenance of traffic signs shall be maintained and kept in place in accordance with IDOT Standard Details.

END OF SECTION

SECTION 01 57 00

TEMPORARY CONTROLS

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Dust Control.
   2. Water, Erosion, and Sediment Control.
   3. Noise Control.
   4. Traffic Control.
   5. Site Security.
   6. Daily Cleanup.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

3.01 DUST CONTROL

A. CONTRACTOR shall execute the Work by methods to minimize raising dust from construction operations.

B. CONTRACTOR shall provide positive means to prevent airborne dust from dispersing into atmosphere.

C. CONTRACTOR shall provide partitions, enclosures, etc., within buildings as necessary to confine dust and protect adjacent areas.

3.02 WATER, EROSION, AND SEDIMENT CONTROL

A. CONTRACTOR shall grade site to drain and shall maintain excavations free of water. Provide, operate, and maintain pumping equipment.

B. CONTRACTOR shall protect Site from puddling or running water.

C. CONTRACTOR shall provide erosion control measures as necessary to control discharge of sediment laden water to surface waters and wetlands.

D. Except as provided for in the document, overland discharge of water from dewatering operations shall not be allowed. Depending on water quality, such water shall either be piped directly to the surface water or shall be directed to sedimentation basins or other such structures or features prior to discharge to surface waters so as not to cause damage to existing ground and improvements, erosion, or deposition in the discharge area.

E. CONTRACTOR shall use jute or synthetic netting, silt fences, straw bales, dikes, channels, and other applicable measures to prevent erosion of soils disturbed by its construction operation.

F. Restoration of the Site shall proceed concurrently with the construction operation. See Drawings and Specifications for erosion control measures in addition to that which may be required above.

G. Erosion control measures shall comply with the current edition of the Illinois Urban Manual.

3.03 NOISE CONTROL

A. Provide methods, means, and facilities to minimize noise produced by construction operations.

3.04 TRAFFIC CONTROL

A. CONTRACTOR shall be responsible for providing all signs, barricades, flagmen, and other traffic control devices in the construction zone.

B. Conduct operations with minimum interference to roadways.

C. Maintain two-way traffic on streets at all times.

D. All traffic control measures shall meet the requirements of Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, Latest Edition, and the Standard Specifications for Traffic control Items, Latest Edition.

E. Do not close or obstruct roadways without approval of OWNER.

3.05 SITE SECURITY

A. CONTRACTOR shall have the sole responsibility of safeguarding the Site perimeter to prevent unauthorized entry to the Site throughout the duration of the Project. CONTRACTOR shall at all times provide such permanent and temporary fencing or barricades or other measures as may be necessary to restrict unauthorized entry to its construction area including construction in public rights-of-way or easements. Site security measures shall include safeguards against attractive nuisance hazards as a result of construction activity.

B. CONTRACTOR shall at all times be responsible for the security of the Work including materials and equipment. OWNER will not take any responsibility for missing or damaged equipment, tools, or personal belongings. CONTRACTOR shall have the sole responsibility of safeguarding the Work and the Site throughout the duration of the Project.

3.06 DAILY CLEANUP

A. CONTRACTOR shall clean up the Site and remove all rubbish on a daily basis.

B. CONTRACTOR shall clean up public streets and highways and remove any dirt, mud, or other materials due to project traffic on daily basis and shall comply with all local and state ordinances and permit requirements.

END OF SECTION

SECTION 01 60 00

MATERIALS AND EQUIPMENT

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: CONTRACTOR shall be responsible for the delivery, handling, storage and protection of all material and equipment required to complete the Work as specified herein.

B. Related Sections and Divisions: Specific requirements for the handling and storage of material and equipment are described in other sections of these Specifications.

1.02 PRODUCTS

A. Components required to be supplied in quantity within a Specification section shall be the same, and shall be interchangeable.

B. CONTRACTOR shall not use materials and equipment removed from existing construction, except as specifically required, or allowed, by the Contract Documents.

C. When any construction deviations from the Drawings and/or Specifications necessary to accommodate equipment supplied by CONTRACTOR, result in additional costs to CONTRACTOR or other contractors, such additional costs shall be borne by CONTRACTOR. CONTRACTOR shall also pay any additional costs necessary for revisions of Drawings and/or Specifications by ENGINEER.

D. Each major component of equipment shall bear a nameplate giving the name and address of the manufacturer and the catalogue number or designation.

1.03 TRANSPORTATION AND HANDLING

A. Materials, products and equipment shall be properly containerized, packaged, boxed, and protected to prevent damage during transportation and handling.

B. CONTRACTOR shall not overload any portion of the structure in the transporting or storage of materials.

C. CONTRACTOR shall not damage other construction by careless transportation, handling, spillage, staining or impact of materials.

D. CONTRACTOR shall provide equipment and personnel to handle products, including those provided by OWNER, by methods to prevent soiling and damage.

E. CONTRACTOR shall provide additional protection during handling to prevent marring and otherwise damaging products, packaging, and surrounding surfaces.

F. CONTRACTOR shall handle product by methods to avoid bending or overstressing. Lift large and heavy components only at designated lift points.

1.04 DELIVERY AND RECEIVING

A. CONTRACTOR shall arrange deliveries of products in accordance with the Progress Schedule, allowing time for observation prior to installation.

B. CONTRACTOR shall coordinate deliveries to avoid conflict with the Work and conditions at the Site; work activities of other contractors or OWNER; limitations on storage space; availability of personnel and handling equipment and OWNER's use of premises.

C. CONTRACTOR shall deliver products in undamaged, dry condition, in original unopened containers or packaging with identifying labels intact and legible.

D. CONTRACTOR shall clearly mark partial deliveries of component parts of equipment to identify equipment and contents to permit easy accumulation of parts and to facilitate assembly.

E. Immediately on delivery, CONTRACTOR shall inspect shipment to review that:
   1. Product complies with requirements of Contract Documents and reviewed submittals.
   2. Quantities are correct.
   3. Accessories and installation hardware are correct.
   4. Containers and packages are intact and labels legible.
   5. Products are protected and undamaged.

1.05 STORAGE AND PROTECTION

A. General:
   1. CONTRACTOR shall store products, immediately on delivery, in accordance with manufacturer's instructions, with all seals and labels intact and legible.
   2. Any additional off-site space required shall be arranged by CONTRACTOR.
   3. CONTRACTOR shall allocate the available storage areas and coordinate their use by the trades on the job.
   4. CONTRACTOR shall arrange storage in a manner to provide access for maintenance of stored items and for observation.

B. In enclosed storage, CONTRACTOR shall:
   1. Provide suitable temporary weather tight storage facilities as may be required for materials that will be damaged by storage in the open.
   2. Maintain temperature and humidity within ranges stated in manufacturer's instructions.
   3. Provide ventilation for sensitive products as required by manufacturer's instructions.
   4. Store unpacked and loose products on shelves, in bins, or in neat groups of like items.
   5. Store solid materials such as insulation, tile, mechanical and electrical equipment, fittings, and fixtures under shelter, in original packages, away from dampness and other hazards.
   6. Store liquid materials away from fire or intense heat and protect from freezing.

C. At exterior storage, CONTRACTOR shall:
   1. Store unit materials such as concrete block, brick, steel, pipe, conduit, door frames, and lumber off ground, out of reach of dirt, water, mud and splashing.
   2. Store tools or equipment that carry dirt outside.
   3. Store large equipment so as not to damage the Work or present a fire hazard.
   4. Cover products subject to discoloration or deterioration from exposure to the elements, with impervious sheet material and provide ventilation to avoid condensation.

5. Completely cover and protect any equipment or material which is prime coated or finish painted with secured plastic or cloth tarps. Store out of reach of dirt, water, mud and splashing.
6. Store loose granular materials on clean, solid surfaces such as pavement, or on rigid sheet materials, to prevent mixing with foreign matter.
7. Provide surface drainage to prevent erosion and ponding of water.
8. Prevent mixing of refuse or chemically injurious materials or liquids.
9. Cover aggregates such as sand and gravel in cold wet weather.
10. Remove all traces of piled bulk materials at completion of work and return site to original or indicated condition.

1.06 MAINTENANCE OF STORAGE

A. CONTRACTOR shall periodically inspect stored products on a scheduled basis.

B. CONTRACTOR shall verify that storage facilities comply with manufacturer's product storage requirements, and verify that manufacturer required environmental conditions are maintained continually.

C. CONTRACTOR shall verify that surfaces of products exposed to the elements are not adversely affected and that any weathering of finishes is acceptable under requirements of Contract Documents.

D. CONTRACTOR shall perform scheduled maintenance of equipment in storage as recommended by the manufacturer. A record of the maintenance shall be kept and turned over to ENGINEER when the equipment is installed.

1.07 INSTALLATION REQUIREMENTS

A. Manufactured articles, materials, and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned as directed by the respective manufacturers, unless otherwise specified.

B. After installation, CONTRACTOR shall protect all materials and equipment against weather, dust, moisture, and mechanical damage.

C. CONTRACTOR shall be responsible for all damages that occur in connection with the care and protection of all materials and equipment until completion and final acceptance of the Work by OWNER. Damaged material and equipment shall be immediately removed from the Site.

1.08 EQUIPMENT WARRANTIES

A. Warranties shall be nonprorated, include all parts and labor, and be in written form. Warranties shall specifically exclude buyer's indemnification language. Warranty language shall not eliminate manufacturer’s responsibility for sizing of the equipment. During warranty period, manufacturer shall be responsible for any travel expenses, outside contractor fees, and rental equipment fees associated with providing warranty service. Manufacturer shall pay expenses incurred for repairs and parts replacement not made by manufacturer if manufacturer’s response is not within 72 hours of notification by OWNER. Warranty language shall be provided with the shop drawings.

1.09 CONCRETE EQUIPMENT BASE

A. Cast-in-place concrete equipment bases shall be provided for all new and relocated equipment including electrical control panels, motor control centers, switchgear, etc. Concrete equipment bases shall be provided by CONTRACTOR except where specifically noted to be provided by others. Bases shall be 3 1/2-inch minimum height and shall be a minimum of 3 inches larger than equipment being supported. Grouting of equipment bases shall be as recommended by equipment manufacturer.

B. Concrete and grout shall meet applicable sections of the Specifications.

C. Provide all anchor bolts, metal shapes and templates to be cast in concrete or used to form concrete for support of equipment.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

SECTION 01 73 29

CUTTING, PATCHING, AND ALTERATIONS

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: CONTRACTOR shall be responsible for all cutting, fitting, patching, and other alterations required to complete the Work as specified herein or to:
   1. Make its several parts fit together properly.
   2. Uncover portions of the Work to install improperly sequenced Work.
   3. Remove and replace defective Work.
   4. Remove and replace Work not conforming to requirements of the Contract Documents.
   5. Remove samples of installed Work as specified for testing.
   6. Provide penetrations of surfaces for installation of piping and electrical conduit.

1.02 REFERENCES

A. ANSI A10 Safety Requirements for Construction and Demolition.

1.03 QUALITY ASSURANCE

A. CONTRACTOR shall perform all cutting, patching, and alterations in strict accordance with pertinent requirements of these Specifications.

B. Except as modified by governing codes, CONTRACTOR shall comply with the applicable provision and recommendations of ANSI A10.

1.04 SUBMITTALS

A. CONTRACTOR shall submit a written request to OWNER well in advance of executing any cutting or alteration which affects the following:
   1. Work of OWNER or any separate contractor.
   2. Structural value or integrity of any element of the Project.
   3. Integrity or effectiveness of weather-exposed or moisture-resistant elements or systems.
   4. Efficiency, operational life, maintenance, or safety of operational elements.
   5. Visual qualities of sight-exposed elements.

B. The request shall include:
   1. Description of affected work.
   2. The necessity for cutting, patching, or alteration.
   3. Effect on work of OWNER, any separate contractor, or on the structural or weather-proof integrity of the Project.
   4. Description of proposed work to include:
      a. Scope of cutting, patching, or alteration.
      b. Trades who will execute the Work.
      c. Products proposed to be used.
      d. Extent of refinishing to be done.

5. Alternatives to cutting and patching.
6. Written permission of any separate contractor whose work will be affected.

C. Submit written notice to OWNER designating the date and the time the Work will be uncovered or executed.

1.05 SCHEDULING AND COORDINATION

A. All work under this section shall be coordinated with OWNER's work forces and those of other contractors and shall be accomplished at times acceptable to OWNER.

B. Before starting any work relating to existing utilities (electrical, sewer, water, heat, gas, fire lines, etc.) that will temporarily discontinue or disrupt service, notify ENGINEER and OWNER 72 hours in advance and obtain OWNER's approval before proceeding with this phase of the Work. Temporary facilities, if required, shall be in place prior to disruption of service.

PART 2–PRODUCTS

2.01 NEW MATERIALS

A. For replacement of work removed, CONTRACTOR shall use materials which comply with the pertinent sections of these Specifications.

B. All new materials for patching and extending work shall match existing products and work.

C. CONTRACTOR shall determine type and quality of existing products by inspection and any necessary testing and workmanship by use of existing as the standard.

2.02 SALVAGEABLE MATERIAL

A. Materials or items designated to be reinstalled or to become the property of OWNER shall be as specified or as shown on the Drawings.

B. CONTRACTOR shall remove such items with care under the supervision of the trade responsible for reinstallation.

C. CONTRACTOR shall store these materials (off-site if necessary) and protect from damage until they are incorporated into the new work.

D. Items which are not to be reinstalled but are to become the property of OWNER shall be removed by CONTRACTOR with care, cleaned, and stored in a location at the Site to be approved by OWNER.

E. Materials or items damaged in its removal shall be replaced by CONTRACTOR with similar new material at no additional cost to OWNER.

2.03 UNSALVAGEABLE MATERIALS

A. Materials or items demolished and not designated to become the property of OWNER or not designated to be reinstalled shall become the property of CONTRACTOR and shall be removed from the site and legally and properly disposed of by CONTRACTOR.

B. Materials shall be removed by CONTRACTOR in a manner that will avoid damage to materials or equipment to remain.

PART 3–EXECUTION

3.01 INSPECTION

A. CONTRACTOR shall inspect existing conditions including elements subject to movement or damage during cutting, patching, and other alterations.

B. After uncovering the Work, CONTRACTOR shall inspect conditions affecting installation of new products or performance of new work.

C. CONTRACTOR shall report unsatisfactory or questionable conditions to ENGINEER in writing.

D. CONTRACTOR shall not proceed with work until unsatisfactory or questionable conditions are resolved.

E. Beginning of cutting, patching, and alterations work means acceptance of existing conditions by CONTRACTOR.

3.02 PREPARATION AND PROTECTION

A. CONTRACTOR shall provide temporary bracing, shoring, needling, and support of the structure during alterations work as necessary to prevent collapse, settling, or deflection and to protect persons and property from injury or damage.

B. Temporary supports must adequately carry all existing and imposed load.

C. CONTRACTOR shall provide and maintain temporary protection of surface finishes, equipment, and adjacent work designated to remain where demolition, removal, and new work is being done, connections are being made, materials are being handled, or equipment is being removed.

D. CONTRACTOR shall provide temporary partitions or barriers to contain all dust, dirt, and debris from entering into finished areas.

E. CONTRACTOR shall provide adequate fire protection in accordance with local Fire Department requirements.

F. CONTRACTOR shall provide waterproofing, weather protection, heat, and other facilities for that portion of the Work which may be exposed by cutting and patching, demolition, or other alterations.

G. CONTRACTOR shall cut, move, or remove items as necessary for access to alterations and renovations work and replace and restore at completion of the Work.

H. CONTRACTOR shall prepare surfaces and remove surface finishes to provide for proper installation of new work and new finishes.

I. CONTRACTOR shall be responsible for any damage to the existing structure or its contents directly or indirectly by its crews or those of its subcontractors.

3.03 PERFORMANCE

A. CONTRACTOR shall accomplish all work of cutting, removal, demolition, patching, or other alterations using only persons skilled in the appropriate trade.

B. CONTRACTOR shall execute the Work in a careful and orderly manner.

C. CONTRACTOR shall execute cutting and demolition by methods which will prevent damage to other work and will provide proper surfaces to receive installation of repairs.

D. CONTRACTOR shall execute fitting and adjustment of products to provide a finished installation to comply with specified products, functions, tolerances, and finishes.

E. CONTRACTOR shall fit work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

F. CONTRACTOR shall thoroughly clean and prepare all surfaces to receive new finish or covering to completely remove all dirt, dust, grease, oil, paint, loose materials, and soil.

G. CONTRACTOR shall refinish entire surface as necessary to provide an even finish to match adjacent finishes:
   1. For continuous surfaces, refinish to nearest intersection.
   2. For an assembly, refinish entire unit.

3.04 DEMOLITION, CUTTING, AND REMOVAL

A. Cutting and removal of construction shall be performed by CONTRACTOR so as not to cut or remove more than is necessary and so as not to damage adjacent work.

B. CONTRACTOR shall cut out embedded anchorages and attachment items as required to properly provide for patching and repair of the respective finishes.

C. CONTRACTOR shall not cut structural work in a manner resulting in a reduction of load-carrying capacity or load/deflection ratio.

D. CONTRACTOR shall not cut operational elements and safety components in a manner resulting in decreased performance, shortened useful life, or increased maintenance.

E. CONTRACTOR shall not cut work exposed to view (exterior or interior) in a manner resulting in noticeable reduction of visual qualities as determined by OWNER.

F. Construction that is to remain which is loosened, cracked, or otherwise damaged or defaced as a result of careless cutting or demolition and is unsuitable for use intended shall be removed and replaced at no additional cost to OWNER.

G. CONTRACTOR shall clean demolished areas and remove debris, waste, and rubbish from the building at the conclusion of each day's work.

H. CONTRACTOR shall not let piled waste material endanger the structure.

3.05 PATCHING, EXTENDING, AND MATCHING

A. Patching work shall conform to the standards of the Specifications where applicable, and where not specified, work shall conform to the highest standards of the applicable trade.

B. CONTRACTOR shall patch construction to match adjacent work unless noted otherwise.

C. Patching or restoration shall be carried to natural breaks (e.g., corners) wherever possible.

D. CONTRACTOR shall provide adequate support to substrate for patching finishes.

E. Transitions:
   1. Where new work abuts or finishes flush with existing work, CONTRACTOR shall make the transition as smooth as possible.
   2. CONTRACTOR shall restore existing work that is damaged during patching operations to a condition equal to its construction at the time of the start of the Work.

3.06 UNANTICIPATED MECHANICAL AND ELECTRICAL WORK EXPOSED

A. Where unanticipated mechanical piping or electrical conduit is exposed during removal of partitions or walls, removal or rerouting shall be accomplished by CONTRACTOR as applicable.
   1. Rerouted piping shall be located and shall be connected to maintain all functions in proper operations.
   2. Abandoned piping may be left in place where it is buried in floors or walls, providing that it is completely disconnected from its source.
   3. There shall be no "dead end" gas, water, sewer, or vent piping existing in the completed work.
   4. Unless otherwise shown, abandoned piping, ductwork, conduit, or other mechanical or electrical items in chases, vertical enclosures, or concealed above ceilings shall be completely removed.

B. Removals, capping, or otherwise terminating services which are abandoned shall be accomplished without additional cost to OWNER.

C. Relocation of services resulting from unanticipated conflicts of new and existing work in concealed spaces shall be paid for in accordance with the Contract.

END OF SECTION

SECTION 01 77 00

CONTRACT CLOSEOUT

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Closeout Procedures.
   2. Final Cleaning.
   3. Adjusting.
   4. Project Record Documents.
   5. Warranties.
   6. Warranty Bond.

1.02 CLOSEOUT PROCEDURES

A. CONTRACTOR shall provide submittals to ENGINEER that are required by governing or other authorities.

B. CONTRACTOR shall comply with the Contract and complete the following before requesting ENGINEER's observation of the Work or designated portion thereof for substantial completion.
   1. Submit executed warranties, workmanship bonds, maintenance agreements, inspection certificates, and similar required documentation for specific units of Work, enabling OWNER's unrestricted occupancy and use.
   2. Submit record documentation, maintenance manuals, tools, spare parts, keys, and similar operational items.
   3. Submit consent of surety (if surety required in Contract).
   4. Complete final cleaning, touch-up work of marred surfaces, and remove temporary facilities and tools.

1.03 FINAL CLEANING

A. It is CONTRACTOR's responsibility to completely clean up the construction site at the completion of the Work.

B. CONTRACTOR shall clean areas of the building in which painting and finishing work is to be performed just prior to the start of this work and maintain these areas in satisfactory condition for painting and finishing. This cleaning includes:
   1. Removal of trash and rubbish from these areas.
   2. Broom cleaning of floors.
   3. Removal of any plaster, mortar, dust, and other extraneous materials from finish surfaces, including but not limited to exposed structural steel, miscellaneous metal, masonry, concrete, mechanical equipment, piping, and electrical equipment.

C. In addition to the cleaning specified above and the more specific cleaning that may be required in various technical sections of the Specifications, CONTRACTOR shall prepare the Project for occupancy by a thorough cleaning throughout, which shall include the following:

1. Clean interior and exterior glass surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
2. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
3. Replace filters of operating equipment.
4. Clean debris from roofs, gutters, downspouts, and drainage systems.
5. Clean site; sweep paved areas, rake clean landscaped surfaces.
6. Remove waste and surplus materials, rubbish, and construction facilities from the Site.

1.04 ADJUSTING

A. CONTRACTOR shall adjust operating products and equipment to provide smooth and unhindered operation.

1.05 PROJECT RECORD DOCUMENTS

A. CONTRACTOR shall maintain on Site one set of the following record documents to record actual revisions to the Work:
   1. Drawings.
   2. Specifications.
   3. Addenda.
   4. Change orders and other modifications to the Contract.
   5. Reviewed shop drawings, product data, and samples.
   6. Manufacturer's instruction for assembly, installation, and adjusting.

B. CONTRACTOR shall make entries that are complete and accurate, enabling future reference by OWNER.

C. CONTRACTOR shall store record documents separate from documents used for construction.

D. CONTRACTOR shall record information concurrent with construction progress.

E. Specifications: CONTRACTOR shall legibly mark and record at each Product section description of actual products installed, including the following:
   1. Manufacturer's name and product model and number.
   2. Product substitutions or alternates utilized.
   3. Changes made by addenda and modifications.

F. Record Drawings: CONTRACTOR shall create record drawings and legibly mark each item to record actual construction including:
   1. Measured depths of foundations in relation to finish floor datum.
   2. Manually measure or use global positioning system to horizontal and vertical locations of underground utilities and appurtenances.
   3. Measured locations of internal utilities and appurtenances concealed in construction referenced to visible and accessible features of the Work.
   4. Field changes of dimension and detail.
   5. Details not on original Contract Drawings.

1.06 WARRANTIES

A. CONTRACTOR shall provide warranties beyond project one-year warranty as required by technical sections.

B. Submit warranty information as follows:
   1. Provide original copies bearing authorized signatures.
   2. Execute and assemble transferable warranty documents from Subcontractors, suppliers, and manufacturers, and provide Table of Contents and assemble in three-ring binder with durable cover.
   3. Submit with request for certificate of Substantial Completion.
   4. For items of work delayed beyond date of Substantial Completion, provide updated submittal within 10 days after acceptance listing date of acceptance as start of warranty period.

1.07 WARRANTY BOND

A. CONTRACTOR shall provide warranty bond prior to or with the final Application for Payment.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

NOT APPLICABLE

END OF SECTION

PERMITS

Illinois Department of Transportation

Ref. #: 016-131191

Individual Utility Permit Bond

Bond No. _____

We Village of Winnetka , 1390 Willow Road Winnetka, IL 60093
(Mailing Address)

as Permittee, and _____ , as Surety, do hereby guarantee performance

of the work described in the Illinois Department of Transportation Utility Permit number _____ which grants permission and authority to perform that work upon or adjacent to Ravine Rd (north of) to 1075 Sheridan Rd, in Cook County in accordance with the terms and description in the permit and sketch and with Part 530 of Title 92 of the Illinois Administrative Code, Accommodation of Utilities on Right-of-Way of the Illinois State Highway System.

If the Permittee performs the work in accordance with the terms and conditions of and description in the permit and sketch and with Part 530 of Title 92 of the Illinois Administrative Code, Accommodation of Utilities on Right-of-Way of the Illinois State Highway System, no claim or demand will be made against this bond's monetary obligation. Otherwise, the Surety is liable to the Department for all expenses incurred in any action in which it prevails against the Permittee or Surety.

Surety's monetary responsibility under this bond is limited to $100,000.00 and shall also be the responsibility of its successors and assigns for five years.

Surety shall provide written notice to the Illinois Secretary of Transportation at least 30 days prior to the inability (due to dissolution or otherwise) of Surety to fulfill its commitments under this bond. Permittee and Surety have a joint and severable responsibility to replace Surety within the 30-day period with another Surety acceptable to the department.

By our signatures below, we commit ourselves to the terms and the conditions of this bond:

Signature of Agent for Surety	Signature of Agent for Permittee
Name of Surety (Print or Type)	Name of Permittee (Print or Type)
Mailing Address	Mailing Address
City State Zip	City State Zip
( ) Telephone Number	Date
	() Telephone Number
	Date

Illinois Department of Transportation
Office of Highways Project Implementation / Region 1 / District 1
201 West Center Court / Schaumburg, Illinois 60196-1096

September 25, 2025

Mr. Thomas Powers, P.E.
Public Works Director
Village of Winnetka
1390 Willow Road
Winnetka, IL 60093

Re: Ravines Force Main Improvements – Request for Variance
IDOT Reference No. 016-131191

Dear Mr. Powers:

The Illinois Department of Transportation (Department) has reviewed the Village of Winnetka's request for a variance to install the Ravines Force Main across Sheridan Road by horizontal directional drilling (HDD) without a casing pipe.

After review, the Department acknowledges the following:

- Bore and jack installation with casing is not feasible at this location due to steep terrain, limited right-of-way, property restrictions, and conflicts with existing utilities.
- Illinois Administrative Code §530.440 permits casing to be omitted where Department-approved jointed or continuous pipe is used.
- The proposed restrained-joint pipe is rated significantly above the operating pressure of the system.
- Past Department approvals of similar installations have performed successfully under comparable conditions.

Based on these findings, the Department will grant approval for uncased HDD installation of the proposed jointed pressure pipe across Sheridan Road, subject to the following conditions:

1. Pipe Material: Installation shall be limited to Department-approved restrained joint PVC pressure pipe conforming to AWWA C900 or C909 standards. Alternative materials, including ductile iron pipe conforming to AWWA C151 and high-density polyethylene (HDPE) pipe conforming to AWWA C906, may be used. All joints shall be adequately restrained through approved joint systems, locking gaskets, or mechanical restraint devices, and installation shall conform to the manufacturer's specifications to prevent separation under test pressure and anticipated service conditions.
2. Depth and Clearances: Minimum depth of cover and horizontal/vertical utility separation requirements must be maintained.

3. Test Holes: Test holes shall be completed prior to installation to confirm separation from existing utilities.
4. As-Built Documentation: Certified as-built drawings, prepared in compliance with ASCE 75-22 standards, shall be submitted to the Department within sixty (60) days of project completion.
5. Emergency Repairs: The Village shall coordinate with the Department on an emergency response protocol. Any future repair under pavement shall be performed by trenchless means.

The Department's approval is based on compliance with Illinois Administrative Code §530.440 and §530.30, sound engineering judgment, and the demonstrated infeasibility of alternative construction methods at this location.

Please contact the Department's District One water/sewer engineer, Mr. Azzam Hamdan at 847-705-4245, or at Azzam.Hamdan@illinois.gov with any questions regarding permit requirements or construction conditions.

Sincerely,

Jose Rios, P.E.
Region One Engineer

By:
Jose A. Dominguez, P.E.
Project Support Engineer

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 2025-72772 **PERMIT NO.:** 2025-IB-72772

BUREAU ID: W03113330012

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS

DATE ISSUED: AUG 12 2025

PREPARED BY: Strand Associates, Inc.

SUBJECT:WINNETKA - Ravines Force Main Replacement
(MWRDGC James C. Kirie Water Reclamation Plant) - Sanitary Sewer Permit

PERMITTEE TO CONSTRUCT, OWN, AND OPERATE

Village of Winnetka
1390 Willow Road
Winnetka, Illinois 60093

Permit is hereby granted to the above designated permittee(s) to construct and/or operate water pollution control facilities described as follows (quantities are approximate):

1,526 feet of 6 inch force main to serve as replacement for existing loads (0 P.E., 0 GPD, DAF) located on 1075 Sheridan Road with discharge to the above indicated sewage treatment plant.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: If this project is located within a wetlands, the U.S. Army Corps of Engineers may require a permit for construction pursuant to Section 404 of the Clean Water Act.

SPECIAL CONDITION 2: The Permittee to Construct shall be responsible for obtaining an NPDES Storm Water Permit prior to initiating construction if the construction activities associated with this project will result in the disturbance of one (1) or more acres total land area. Additional information is provided on the following webpage: *https://epa.illinois.gov/topics/forms/water-permits/storm-water/construction.html.*

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

BDF:KKD:n:\bow\permits\wpdocs\docs\permits\stateco n\desai\2025-72772.docx

DIVISION OF WATER POLLUTION CONTROL

[redacted]

Brant D. Fleming, P.E.
Manager, Municipal Unit, Permit Section

cc: EPA-Des Plaines FOS
Strand Associates
MWRDGC 2025-0149
Records - Municipal

READ ALL CONDITIONS CAREFULLY:
STANDARD CONDITIONS

The Illinois Environmental Protection Act (Illinois Revised statutes Chapter 111-12. Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

1. Unless the construction for which this permit is issued has been completed, this permit will expire (1) two years after the date of issuance for permits to construct sewers or wastewater sources or (2) three years after the date of issuance for permits to construct treatment works or pretreatment works.

2. The construction or development of facilities covered by this permit shall be done in compliance with applicable provisions of Federal laws and regulations, the Illinois Environmental Protection Act, and Rules and Regulations adopted by the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification of the project, along with plans and specifications to the Agency and a supplemental written permit issued.

4. The permittee shall allow any agent duly authorized by the Agency upon the presentations of credentials.

   a. To enter at reasonable times, the permittee's premises where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit;

   b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit;

   c. To inspect at reasonable times, including during any hours of operation of equipment constructed or operated under this permit, such equipment or monitoring methodology or equipment required to be kept, used, operated, calibrated, and maintained under this permit;

   d. To obtain and remove at reasonable times samples of any discharge or emission of pollutants;

   e. To enter at reasonable times and utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit;

5. The issuance of this permit:

   a. Shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located;

   b. Does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities;

   c. Does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances, and regulations;

   d. Does not take into consideration or attest to the structural stability of any units or parts of the project;

   e. In no manner implies or suggests that the Agency (or its offices, agents, or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility;

6. Unless a joint construction/operation permit has been issued, a permit for operating shall be obtained from the Agency before the facility or equipment covered by this permit is placed into operation.

7. These standard conditions shall prevail unless modified by special conditions.

8. The Agency may file a complaint with the Board for suspension or revocation of a permit;

   a. Upon discovery that the permit application contained misrepresentations, misinformation, or false statement or that all relevant facts were not disclosed; or

   b. Upon finding that any standard or special conditions have been violated; or

   c. Upon any violation of the Environmental Protection Act or any Rules or Regulation effective thereunder as a result of the construction or development authorized by this permit.

WMO Permit Number: 2025-0149

WATERSHED MANAGEMENT PERMIT

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

LOCAL SEWER SYSTEMS SECTION
111 EAST ERIE STREET, CHICAGO, IL 60611
www.mwrd.org/wmo

INSTRUCTIONS FOR COMPLETING PERMIT FORM

Submit a signed copy of the Watershed Management Permit application electronically through the Watershed Management Ordinance Permit Application Submittal System (WPASS) at www.mwrd.org/wpass. Include any other applicable permit schedules with the application and check the appropriate boxes. Submit a signed and sealed copy of the plan set. If applicable, submit the Fee Payment Voucher and Payment Receipt. Payments can be mailed to the address at the top of this form or submitted electronically at https://mwrd.org/form/lsss-payment. For any questions or assistance with submitting the permit application please email us at wpass@mwrd.org or call (312) 751-3255.

NAME AND LOCATION OF PROJECT

Name of Project (as shown on the plan set): Ravines Force Main Improvements

Location of Project (address or with respect to two major streets): 1075 Sheridan Road and Fisher Lane

Municipality (Township, if unincorporated): Village of Winnetka

PIN (include all impacted, use additional sheet if necessary): 05 - 17 - 200 - 08 - 0000 , 05 - 17 - 200 - 009 - 0000
05 - 17 - 200 - 044 - 0000 , 05 - 17 - 200 - 047 - 0000
05-17-200-050-0000, 05-17-200-087-0000

SEWER AREA OF PROJECT

☐ Combined Sewer Area ■ Separate Sewer Area

APPLICABLE PERMIT SCHEDULES

■ Project Information (Required for all projects)	WMO Schedule A	(Page 5 of 9)
■ Sewer Summary (Required for all projects)	WMO Schedule B	(Page 6 of 9)
■ Sewer Connections (Required for all projects)	WMO Schedule C	(Page 7 of 9)
☐ Detention & Stormwater Management Facilities (WMO)	WMO Schedule D	(2 Pages)
☐ Detention & Stormwater Management Facilities (Legacy)	WMO Schedule D-Legacy	(4 Pages)
☐ Public Lift Station and/or Force Main	WMO Schedule E	(2 Pages)
☐ Characteristics of Waste Discharge	WMO Schedule F	(2 Pages)
☐ Treatment or Pretreatment Facilities	WMO Schedule G	(2 Pages)
☐ Hazard Areas (Floodplain / Floodway /Riparian Areas)	WMO Schedule H	(2 Pages)
☐ Affidavit Relative to Compliance with Article 7	WMO Schedule J	(1 Page)
☐ Affidavit of Disclosure of Property Interest	WMO Schedule K	(2 Pages)
☐ Notice of Requirements for Storm Water Detention	WMO Schedule L	(2 Pages)
☐ Outfall, Direct Connection, District Owned or Leased Property	WMO Schedule O	(1 Page)
☐ Soil Erosion and Sediment Control	WMO Schedule P	(1 Page)
☐ Recording and Maintenance	WMO Schedule R	(2 Pages)
☐ Wetlands and Wetland Buffer Areas	WMO Schedule W	(2 Pages)
☐ Current Survey of Property Interests (Required for most projects)	Exhibit A	

DISTRICT or AUTHORIZED MUNICIPALITY USE ONLY

Application Received: 5/22/2025 Permit Issued: 6/27/2025

PERMIT ISSUED BY: ■ DISTRICT ☐ Authorized Municipality

WMO PERMIT
GENERAL CONDITIONS

WMO Permit Number: 2025-0149

1. **Definitions.** The definitions of Appendix A of the Watershed Management Ordinance are incorporated into this Watershed Management Permit by reference. Additionally, the following words and phrases shall be defined as follows:
    a) **Building and Occupancy Permit.** Building and Occupancy Permit issued by the Municipality.
    b) **Design Engineer.** A Professional Engineer who prepares plans and specifications for the project, and signs the Watershed Management Permit Application.
    c) **Inspection Engineer.** A Professional Engineer who inspects the development to ensure compliance with the design plans, specifications, a Watershed Management Permit, and the Watershed Management Ordinance.
    d) **Permit.** Watershed Management Permit.
    e) **General Conditions.** General Conditions contained in a Watershed Management Permit.
    f) **Special Conditions.** Special Conditions of this Watershed Management Permit.

2. **Adequacy of Design.** The schedules, plans, specifications and all other data and documents submitted for this Permit are made a part hereof. The Permit shall not relieve the Design Engineer of the sole responsibility for the adequacy of the design. The issuance of this Permit shall not be construed as approval of the concept or construction details of the proposed facilities and shall not absolve the Permittee, Co-Permittee or Design Engineer of their respective responsibilities.

3. **Joint Construction and Operation Permits.** Unless otherwise stated by the Special Conditions, the issuance of this Permit shall be a joint construction and operation permit, provided that the Permittee or Co-Permittee has complied with all General and Special Conditions.

4. **Allowable Discharges.** Discharges into the Sanitary Sewer system constructed under this Permit shall consist of sanitary Sewage only. Unless otherwise stated by the Special Conditions, there shall be no discharge of industrial wastes under this Permit. Stormwater shall not be permitted to enter the Sanitary Sewer system. Without limiting the general prohibition of the previous sentence, roof and footing drains shall not be connected to the Sanitary Sewer system.

5. **Construction Inspection.** All erosion and sediment control facilities, Stormwater Facilities, Detention Facilities, and Qualified Sewer Construction shall be inspected and approved by an Inspection Engineer acting on behalf of the Permittee or the Owner of the project, or by a duly authorized and competent representative of the Inspection Engineer. No sewer trenches shall be backfilled except as authorized by the Inspection Engineer after having inspected and approved the sewer installation.

6. **Maintenance.** Stormwater Facilities, Detention Facilities, Qualified Sewer Construction, Sanitary Sewer lines, Combined Sewer lines, systems or facilities constructed hereunder or serving the facilities constructed hereunder shall be properly maintained and operated at all times in accordance with all applicable requirements. It is understood that the responsibility for maintenance shall run as a joint and several obligation against the Permittee, the Co-Permittee, the property served, the Owner and the operator of the facilities, and said responsibility shall not be discharged nor in any way affected by change of ownership of said property, unless the District has authorized assignment of the permit.

7. **Indemnification.** The Permittee shall be solely responsible for and shall defend, indemnify and hold harmless the Metropolitan Water Reclamation District of Greater Chicago ("District", "MWRD", or "MWRDGC") and its Commissioners, officers, employees, servants, and agents from liabilities of every kind, including losses, damages and reasonable costs, payments and expenses (such as, but not limited to, court costs and reasonable attorneys' fees and disbursements), claims, demands, actions, suits, proceedings, judgments or settlements, any or all of which are asserted by any individual, private entity, or public entity against the District and its Commissioners, officers, employees, servants, or agents and arise out of or are in any way related to the issuance of this Permit. Without limiting the generality of the preceding sentence, the provisions of this paragraph shall extend to indemnify and hold harmless the District and its Commissioners, officers, employees, servants, and agents from any claims or damages arising out of or in connection with the termination or revocation of this Permit.

   The Permittee shall be solely responsible for and shall defend, indemnify and hold harmless an Authorized Municipality and its elected officials, officers, employees, servants, and agents from liabilities of every kind, including losses, damages and reasonable costs, payments and expenses (such as, but not limited to, court costs and reasonable attorneys' fees and disbursements), claims, demands, actions, suits, proceedings, judgments or settlements, any or all of which are asserted by any individual, private entity, or public entity against the Authorized Municipality and its elected officials, officers, employees, servants, or agents and arise out of or are in any way related to the issuance of this Permit. Without limiting the generality

of the preceding sentence, the provisions of this paragraph shall extend to indemnify and hold harmless the Authorized Municipality and its elected officials, officers, employees, servants, and agents from any claims or damages arising out of or in connection with the termination or revocation of this Permit.

8. **Sewer Construction by District.** Permittee understands and acknowledges that the District has the right and power to construct and extend sewer service facilities and render such services within the area to be served by the project for which this Permit is issued, and that by the District constructing and extending such sewer service facilities and rendering such services, the facilities constructed by the Permittee under this Permit may decrease in value, become useless or of no value whatsoever, the Permittee may also sustain a loss of business, income and profits.

   Therefore, by accepting this Permit and acting thereon, the Permittee, for itself, its successors and assigns, does remise, release and forever discharge the District and its Commissioners, officers, employees, servants, and agents of any and all claims whatsoever which Permittee may now have or hereafter acquire and which Permittee's successors and assigns hereafter can, shall, or may have against the District and its Commissioners, officers, employees, servants, and agents for all losses and damages, either direct or indirect, claimed to have been incurred by reason of the construction or extension at any time hereafter by the District of sewer service facilities in the service area contemplated by this Permit, the rendering of such services, which District facilities and services decrease the value of the facilities constructed by the Permittee under this Permit, make same useless or of no value whatsoever, including but not limited to, any and all damages arising under 70 ILCS 2605/19; the taking of private property for public use without due compensation; the interference with the contracts of Permittee; the interference with Permittee's use and enjoyment of its land; and the decrease in value of Permittee's land.

9. **Third Parties.** Regarding Qualified Sewer Construction, this Permit does not grant the right or authority to the Permittee: (a) to construct or encroach upon any lands of the District or of any other parties, (b) to construct outside of the territorial boundaries of the District except as allowed under an extraterritorial service agreement, (c) to construct or encroach upon the territorial boundaries of any units of local government within the District, (d) to connect to or discharge into or be served by (directly or indirectly) any sewer or sewer system owned or operated by third parties.

10. **Costs.** It is expressly stipulated and clearly understood that the Stormwater Facilities, Detention Facilities, Qualified Sewer Construction, or facilities for which the Permit is issued shall be constructed, operated and maintained at no cost to the District.

11. **Other Sewer Construction.** The District reserves the right, privilege and authority to permit others to reconstruct, change, alter and replace all sewers and appurtenances thereto at the point of connection of any sewerage system to a District interceptor and/or in public right-of-ways of District easements, and to introduce additional Sewage flow through this connection into the intercepting sewer of said District.

12. **Change of Use.** This Permit shall be incorporated in the Building and Occupancy Permit for the Building or Buildings served under this Permit. The Owner or occupant of any Building served under this Permit shall not cause, or permit, a change of use of the Building to a use other than that indicated in this Permit without first having obtained a written permission from the Executive Director of the District.

13. **Interceptors Overloading.** The District hereby serves notice that its interceptors may flow full and may surcharge, and flooding of the proposed system may occur. The Permittee agrees that the proposed systems shall be constructed, operated and maintained at the sole risk of the Permittee.

14. **Transferability.** This Permit may not be assigned or transferred without the written consent of the Executive Director of the District or Enforcement Officer of an Authorized Municipality. However, a Sole Permittee may be required to assign or transfer the Permit when divesting itself of ownership to a third-party and should notify the District prior to such divestment so that the District may determine whether assignment to the new owner is necessary.

15. **Termination.** The District has the right to enforce or revoke a Permit issued by either the District or an Authorized Municipality as outlined in Article 12 of the Watershed Management Ordinance.

    It is understood and agreed that in the event the Permittee shall default on or fail to perform and carryout any of the covenants, conditions or provisions of this Permit and such default or violation shall continue for sixty (60) days after receipt of notice thereof in writing given by the Executive Director of the District, then it shall be lawful for the District at or after the expiration of said sixty (60) days to declare said Permit terminated. The Permittee agrees that immediately upon receipt of written notice of such termination it will stop all operations, discontinue any discharges and disconnect the sewerage system or facilities constructed under this Permit. If the

Permittee fails to do so, the District shall have the right to disconnect said system. The Permittee hereby agrees to pay for any costs incurred by the District for said disconnection.

16. **Rights and Remedies.** The various rights and remedies of the District contained in this Permit shall be construed as cumulative, and no one of them shall be construed as exclusive of any one or more of the others or exclusive of any other rights or remedies allowed by applicable rules, regulations, ordinances and laws. An election by the District to enforce any one or more of its rights or remedies shall not be construed as a waiver of the rights of the District to pursue any other rights or remedies provided under the terms and provisions of this Permit or under any applicable rules, regulations, ordinances or laws.

17. **Expiration.** This Permit shall expire if construction has not started within one (1) year from the date of issue. Construction under an expired Permit is deemed construction without a Permit. All construction under this Permit shall be completed within three (3) years after the date of permit issuance. If conditions so warrant, an extension may be granted. For publicly financed projects (e.g. special assessments) the one (1) year period indicated will be considered from the date of final court action.

18. **Revocation.** In issuing this Permit, the District or Authorized Municipality has relied upon the statements and representations made by the Permittee or his agent. Any incorrect statements or representations shall be cause for revocation of this Permit, and all the rights of the Permittee hereunder shall immediately become null and void.

19. **Advance Notice.** The Permittee shall give the District or Authorized Municipality advance notice of at least two working days prior to the following: mobilization and installation of Erosion and Sediment Control Practices; commencement of construction; excavation for Qualified Sewer Construction; Major Stormwater Systems and Detention Facilities under this Permit; and completion of construction. When advance notice is given, the Permittee shall provide the Permit number, municipality and location.

20. **Compliance with Plans and Specifications.** All construction shall be in accordance with the plans and specifications submitted for this Permit and made a part hereof. No changes in, or deviation from the plans and specifications which affect capacity, maintenance, design requirements, service area or Permit requirements shall be permitted unless revised plans have been submitted to, and approved by the District or Authorized Municipality. The Permit together with a set of the plans and specifications (revised plans and specifications, if any) shall be kept on the jobsite at all times during construction and until final inspection and approval by the District or Authorized Municipality.

21. **Testing and Approval.** All construction under this Permit shall be subject to inspection, testing and approval by the District. All testing shall be made, or caused to be made, by the Permittee at no cost to the District and in the presence of the District representative. Upon satisfactory completion of construction, the Permittee and the owner shall submit, or cause to be submitted, a completion certificate and request for approval on the form prescribed by the District. No sewer or other facilities shall be put in service until all the conditions of the Permit have been satisfactorily met.

22. **Record Drawings.** Before final inspection and approval by the District or an Authorized Municipality, the Permittee shall furnish, or cause to be furnished to the District or an Authorized Municipality, a set of Record drawings and Schedule R for the site stormwater plan, Detention Facilities, Stormwater Facilities, and Qualified Sewer Construction.

23. **Compliance with Rules and Regulations.** The Permittee hereby expressly assumes all responsibilities for meeting the requirements of all applicable rules, regulations, ordinances and laws of Local, State and Federal authorities. Issuance of this Permit shall not constitute a waiver of any applicable requirements.

24. **Severability.** The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit, is held invalid, the remaining provisions of this Permit shall continue in full force and effect.

25. **Property Rights.** This Permit does not convey any property rights of any sort, or any exclusive privilege.

26. **Conflict with Other Conditions.** In the case of conflict between these General Conditions and any other condition(s) in this permit, the other condition(s) shall govern.

WMO SCHEDULE A
PROJECT INFORMATION

Watershed Management Permit No. 2025-0149

1. **NAME OF PROJECT** Ravines Force Main Improvements
(as shown on the plans)

2. **APPURTENANCES** (check all applicable items)

☐ Siphon ☐ Drop Manholes ☐ Public Lift Station (Submit Sch. E) ☐ Outfalls (Submit Sch. O)

☐ Stream Crossing ☐ Direct Connections to District → Describe _____

3. **RECEIVING SANITARY/COMBINED SEWER SYSTEM**

A. System that project will connect to is:
■ Existing ☐ Proposed /Under Construction → District Permit # _____

List owners of all sewers from project to District interceptor Village of Winnetka

4. **RECEIVING STORM SEWER SYSTEM TRIBUTARY TO WATERWAY**

A. System that project will connect to is:
☐ Existing ☐ Proposed /Under Construction → District Permit # _____

List owners of all sewers from project to waterway Does not apply

5. **EXISTING LIFT STATION**

☐ No ■ Yes → Receiving system includes existing lift station

If yes, indicate location 1075 Sheridan Road (see project narrative for explanation)

6. **FLOOD PROTECTION AREAS**
Does any part of the project area involve the following? (check all applicable items)

☐ Floodplain/Floodway/Riparian (Schedule H) ☐ Wetlands/Buffers/Riparian (Schedule W)

7. **SIZE OF PROJECT** Force main replacement project, no development

		Impervious area within project	
A. Total contiguous ownership interest	_____ acres	C. Before development	_____ acres
B. Development Area	_____ acres	D. After development	_____ acres

8. **STORMWATER MANAGEMENT** Force main replacement project, no development requiring stormwater management

A. Is project in the service area of a District permitted detention facility?
☐ No ☐ Yes → District Permit No. _____

B. Is stormwater management provided under this permit?
■ No ☐ Yes → Required by: ☐ District (Submit Sch. D) ☐ Other

C. Type of stormwater management

☐ Runoff Control ☐ Volume Control ☐ Detention Storage

WMO SCHEDULE B
SEWER SUMMARY

Watershed Management Permit No. 2025-0149

PROJECT NAME: Ravines Force Main Improvements
(as shown on the plans)

1. **SEWER SUMMARY:** Include all qualified sewer construction sewers (Sanitary sewers in combined and separate sewer areas and Storm sewers in combined sewer area) and their tributary type:
Sanitary (San), Combined (C), Storm to Combined (SC), Storm to Waterway (SW), or Storm part of Volume Control (SVC)

Tributary Type	Choose an San	Choose an Choose one	Choose an Choose one	Choose an Choose one	Choose Choose one	Choose an Choose one	Choose Choose one
Pipe Size (in.)	6						
Total Length (ft.)	1,526						
Min. slope used (%)	0.5						
Pipe Material *	PVC C900						
Total Manholes	1						
Total Cleanouts	0						
Catch Basin/Inlets	0						

* Pipe material and joint specifications must be shown on plans. See Technical Guidance Manual for acceptable specifications.

Sewer construction in floodplain: ☒ No ☐ Yes → FPE _____ ft.

Sanitary Manholes in floodplain None

Note: All structures shall have lids located above the FPE or be constructed with watertight, bolt down covers/lids.

2. **NATURE OF PROJECT** (Check all that apply)

Brief description New force main to replace old force main.

- ☒ Publicly financed
- ☒ Sewer system serving a subdivision
- ☐ Off-site trunk sewer to serve subdivision
- ☐ Other _____
- ☐ Sewer extension to serve future development
- ☐ Storm sewers in combined sewer area
- ☐ Service connections to serve buildings (Sch. C)

3. **SEWER EXTENSIONS**

Identify proposed project designed to service future connections (not included in Schedule C). Check the appropriate box and submit service area map and estimate of population equivalent (PE) to be served.

☒ NO ☐ YES → ☐ Service area map

☐ P.E. estimate submitted

WMO SCHEDULE C SEWER CONNECTIONS

Watershed Management Permit No. 2025-0149

(FILL OUT ALL SECTIONS THAT APPLY)

Force Main Replacement project - No new sewer connections

1. BUILDING CONNECTION DATA

A. RESIDENTIAL BUILDINGS

☐ Single Family Total dwelling units * _____

Number of sewer connections * _____ PE** _____

☐ Multi Family Total dwelling units * _____

Number of sewer connections * _____ PE** _____

B. COMMERCIAL& RECREATIONAL BUILDINGS

☐ Number of sewer connections _____ PE** _____

C. INDUSTRIAL BUILDINGS

☐ Number of sewer connections _____ PE** _____

* Each sanitary line exiting a building is a connection

** Population Equivalent (Submit calculations for each connection and total from all connections)

2. BUILDING USE - (Check all that apply)

A. COMMERCIAL & RECREATIONAL

Describe use of buildings, including principal product(s) or activities _____

_____

☐ Food preparation or processing (install grease separator)

☐ Swimming pool (provide pool plans)

☐ Manufacturing (describe) _____

☐ Laundromat (install lint basin)

☐ Auto service (install triple basin)

☐ Auto wash (install mud basin)

☐ Other _____

B. INDUSTRIAL BUILDINGS

Describe use of buildings, including principal product(s) or activities _____

_____

☐ Sewer connections will receive domestic sewage only

☐ Industrial waste is produced

NOTE: If industrial waste is produced, submit WMO Schedule F & WMO Schedule G and plumbing plans along with flow diagram for pretreatment system.

SPECIAL CONDITIONS FOR MWRD PERMIT NO. 2025-0149

1. Construction must conform to the soil erosion and sediment control requirements of this permit and any other local, state, and/or federal agencies.
2. This permit is issued for qualified sewer construction only.
3. All abandoned sewers/forcemains shall be plugged at both ends with at least 2 feet long non-shrink concrete or mortar plugs.
4. The issuance of this permit does not grant authority to the Permittee/Co-Permittee to work within the Illinois Department of Transportation (IDOT) right-of-way. The issuance of this permit does not relieve the Permittee/Co-Permittee from making proper notices to or obtaining proper authorization from IDOT, as may be necessary.

ENGINEERING CERTIFICATIONS

Watershed Management Permit No. 2025-0149

CERTIFICATE BY DESIGN ENGINEER: I hereby certify that the project described herein has been designed in accordance with the requirements set forth in this application and all applicable ordinances, rules, regulations, local, state and federal laws, and design criteria of the issuing authority; that the storm drainage and sanitary sewer system designed for this project are proper and adequate; that where the design involves one or more connections to an existing local sewer system, the capacity of said system has been examined and the system is found to be adequate to transport the stormwater and/or wastewater that will be added through the proposed sewer without violating any provisions of the Illinois Environmental Protection Act or the rules and regulations thereunder.

Comments, if any: _____

Engineering Firm: Strand Associates, Inc. **Telephone:** (815) 744 - 4200

Address: 4170 South Houbolt Road **City:** Joliet **Zip:** 60431

MICHAEL A. WALDRON 062-050441 P.E. SEAL LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

Signature: [redacted] **Date:** 5/21/25

(Name and Title)

Email Address: mike.waldron@strand.com

CERTIFICATE BY MUNICIPAL OR SYSTEM ENGINEER: The application and the drawings, together with other data being submitted with this application, have been examined by me and are found to be in compliance with all applicable requirements. The manner of drainage is satisfactory and proper in accordance with local requirements. The existing local sewer system to which the project discharges has been examined and the system is found to be adequate to transport the stormwater and/or wastewater that will be added through the proposed sewer without violating any provisions of the Illinois Environmental Protection Act or the rules and regulations thereunder.

I hereby certify that the project area is within the municipal corporate limits. ☒ YES ☐ NO

Owner of Local Sewer System: Village of Winnetka

Municipal Engineer: Tom Powers **Telephone:** (847) 501-6000

Address: 1390 Willow Road **City:** Winnetka **Zip** 60093

P.E. SEAL

Signature: [redacted] PW DIRECTOR **Date:** 5/22/25

(Name and Title)

Email Address: tpowers@winnetka.org

CERTIFICATE BY INSPECTION ENGINEER: I hereby certify that construction of the project will be in substantial compliance with the data and the plans submitted with this application; that approval will be obtained from the issuing authority prior to making any changes that would affect capacity, maintenance, design requirements, service area or the Permit requirements; that a set of RECORD drawings, signed and sealed by the undersigned Engineer will be furnished to the District or an Authorized Municipality before testing and approval by the District or Authorized Municipality of the completed work.

Engineering Firm: Village of Winnetka Public Works Department **Telephone:** (847) 501-6000

Address: 1390 Willow Road **City:** Winnetka **Zip** 60093

P.E. SEAL

Signature: [redacted] PW DIRECTOR **Date:** 5/22/25

(Name and Title)

Email Address: tpowers@winnetka.org

SPECIAL CONDITIONS

Watershed Management Permit No. 2025-0149

This Permit is issued subject to the General Conditions and the attached Special Conditions.

If Permit is granted:

☐ **Please return two (2) copies of the Permit to the Permittee; or**
☐ **Please mail one (1) copy to Permittee and one (1) copy to the person designated below:**

Name: _____

Address : _____
Email : _____

CERTIFICATE BY APPLICANTS: We have read and thoroughly understand the conditions and requirements of this Permit application, and agree to conform to the Permit conditions and other applicable requirements of the District. It is understood that construction hereunder, after the Permit is granted, shall constitute acceptance by the applicants of any Special Conditions that may be placed hereon by the District or an Authorized Municipality. It is further understood that this application shall not constitute a Permit until it is approved, signed and returned by the Director of Engineering of the District or Enforcement Officer of an Authorized Municipality.

PERMITTEE	**CO-PERMITTEE**
The project area is within municipal corporate limits. ☒ Yes ☐ No ☐ Not Applicable	**(Co-Permittee is Property Owner)** Title to property is held in a land trust: ☐ Yes ☐ No If yes, Co-Permittee shall be beneficiary with Power of Direction
Municipality Village of Winnetka	Owner
Address 1390 Willow Road	Address
City Winnetka Zip 60093	City Zip
Signature [redacted]	Signature
Name Tom Powers (Print)	Name (Print)
Title Director of Public Works	Title
Date 5/22/25 Phone (847) 501-6000	Date Phone
Email tpowers@winnetka.org	Email

REVIEW AND APPROVAL BY THE DISTRICT OR AUTHORIZED MUNICIPALITY

Reviewed by: Peter Mucha **Date** 6/24/2025
(Local Sewer Systems) or (Professional Engineer)

Approved for Issue

Approved by: [redacted] **Date** 6/27/2025
(For the Director of Engineering) or (Enforcement Officer)

WAGE RATES

Cook County Prevailing Wage Rates posted on 11/4/2025

						Overtime										
Trade Title	Rg	Type	C	Base	Foreman	M-F	Sa	Su	Hol	H/W	Pension	Vac	Trng	Other Ins	Add OT 1.5x owed	Add OT 2.0x owed
ASBESTOS ABT-GEN	All	ALL		51.40	52.40	1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
ASBESTOS ABT-MEC	All	BLD		42.02	45.38	1.5	1.5	2.0	2.0	16.44	16.64	0.00	0.92		3.37	6.73
BOILERMAKER	All	BLD		58.91	64.21	2.0	2.0	2.0	2.0	7.07	27.02	0.00	3.69	2.31	0.00	39.30
BRICK MASON	All	BLD		53.06	58.37	1.5	1.5	2.0	2.0	12.95	26.26	0.00	1.57	0.00	4.23	8.45
CARPENTER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
CEMENT MASON	All	ALL		53.10	55.10	2.0	1.5	2.0	2.0	18.43	24.00	0.00	1.25		2.50	5.00
CERAMIC TILE FINISHER	All	BLD		49.09	49.09	1.5	1.5	2.0	2.0	13.25	17.61	0.00	1.37	0.00	5.57	11.14
CERAMIC TILE LAYER	All	BLD		57.04	62.04	1.5	1.5	2.0	2.0	13.25	21.60	0.00	1.50	0.00	7.63	15.26
COMMUNICATION ELECTRICIAN	All	BLD		51.14	56.25	1.5	1.5	2.0	2.0	16.70	14.48	1.40	1.27	0.10	0.00	0.00
CONCRETE SPECIALIST	All	BLD		51.81	58.21	1.5	1.5	2.0	2.0	12.95	27.56	0.00	1.57	0.00	4.88	9.75
CONCRETE SPECIALIST WELDER	All	BLD		54.40	58.21	1.5	1.5	2.0	2.0	12.95	27.56	0.00	1.57	0.00	4.88	9.75
ELECTRIC PWR EQMT OP	All	ALL		64.58	70.87	1.5	1.5	2.0	2.0	12.99	22.45	0.00	3.66	0.00	0.00	0.00
ELECTRIC PWR GRNDMAN	All	ALL		50.37	70.87	1.5	1.5	2.0	2.0	10.13	17.51	0.00	2.85	0.00	0.00	0.00
ELECTRIC PWR LINEMAN	All	ALL		64.58	70.87	1.5	1.5	2.0	2.0	12.99	22.45	0.00	3.66	0.00	0.00	0.00
ELECTRICIAN	All	ALL		57.75	63.53	1.5	1.5	2.0	2.0	19.34	21.13	1.60	1.87	0.30	0.00	0.00
ELEVATOR CONSTRUCTOR	All	BLD		70.68	79.52	2.0	2.0	2.0	2.0	16.28	21.36	5.65	0.80		0.00	0.00
FENCE ERECTOR	All	ALL		52.25	54.75	1.5	1.5	2.0	2.0	14.29	19.02	0.00	1.00	0.00	0.00	0.00
GLAZIER	All	BLD		53.55	55.05	1.5	2.0	2.0	2.0	16.04	26.64	0.00	2.30	0.00	0.00	0.00
HEAT/FROST INSULATOR	All	BLD		56.02	59.38	1.5	1.5	2.0	2.0	16.44	19.88	0.00	0.92		4.99	9.97
IRON WORKER	All	ALL		62.46	65.96	2.0	2.0	2.0	2.0	19.05	27.04	0.00	0.49	0.00	0.00	0.00
LABORER	All	ALL		51.40	52.15	1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
LATHER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
MACHINIST	All	BLD		60.39	64.39	1.5	1.5	2.0	2.0	11.43	9.95	1.85	1.47	0.00	0.00	0.00
MARBLE FINISHER	All	ALL		40.21	54.60	1.5	1.5	2.0	2.0	12.95	23.81	0.00	0.98	0.00	3.00	6.00
MARBLE SETTER	All	BLD		52.00	57.20	1.5	1.5	2.0	2.0	12.95	25.57	0.00	1.25	0.00	3.88	7.76
MATERIAL TESTER I	All	ALL		41.40		1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00

Cook County Prevailing Wage Rates posted on 11/4/2025

MATERIALS TESTER II	All	ALL		46.40		1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
MILLWRIGHT	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
OPERATING ENGINEER	All	BLD	1	64.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	2	63.50	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	3	60.95	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	4	59.20	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	5	68.55	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	6	65.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	7	67.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	1	73.95	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	2	72.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	3	67.95	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	4	63.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	5	75.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	6	63.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	1	63.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	2	62.45	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	3	60.40	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	4	59.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	5	57.80	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	6	66.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	7	64.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
ORNAMENTAL IRON WORKER	All	ALL		59.26	62.76	2.0	2.0	2.0	2.0	14.86	27.70	0.00	2.25	0.00	0.00	0.00
PAINTER	All	ALL		54.30	61.09	1.5	1.5	1.5	2.0	16.26	17.59	0.00	1.86	0.00	0.00	0.00
PAINTER - SIGNS	All	BLD		46.76	52.53	1.5	1.5	2.0	2.0	8.20	16.81	0.00	0.00	0.00	0.00	0.00
PILEDRIVER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
PIPEFITTER	All	BLD		58.50	61.50	1.5	1.5	2.0	2.0	15.15	22.85	0.00	3.12	0.00	0.00	0.00
PLASTERER	All	BLD		51.10	54.17	1.5	1.5	2.0	2.0	18.43	22.10	0.00	1.25	0.00	0.00	0.00
PLUMBER	All	BLD		60.50	64.15	1.5	1.5	2.0	2.0	19.10	17.94	0.00	1.98		0.00	0.00

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ROOFER	All	BLD		52.00	57.00	1.5	1.5	2.0	2.0	12.20	17.59	0.00	1.14	0.00	0.00	0.00
SHEETMETAL WORKER	All	BLD		54.58	58.95	1.5	1.5	2.0	2.0	15.88	28.92	0.00	1.20	0.00	0.00	0.00
SIGN HANGER	All	BLD		37.62	40.63	1.5	1.5	2.0	2.0	7.85	4.90	0.00	0.00	0.00	0.00	0.00
SPRINKLER FITTER	All	BLD		63.25	66.00	1.5	1.5	2.0	2.0	15.45	19.90	0.00	1.15	0.00	0.00	0.00
STEEL ERECTOR	All	ALL		62.46	65.96	2.0	2.0	2.0	2.0	19.05	27.04	0.00	0.49	0.00	0.00	0.00
STONE MASON	All	BLD		53.06	58.37	1.5	1.5	2.0	2.0	12.95	26.26	0.00	1.57	0.00	4.23	8.45
SURVEY WORKER	All	BLD		58.45	59.45	1.5	1.5	2.0	2.0	19.10	14.40	0.00	1.59		0.00	0.00
SURVEY WORKER	All	HWY		58.45	59.45	1.5	1.5	2.0	2.0	19.10	14.40	0.00	1.59		0.00	0.00
TERRAZZO FINISHER	All	BLD		51.44	51.44	1.5	1.5	2.0	2.0	13.25	18.87	0.00	1.41	0.00	4.45	8.89
TERRAZZO MECHANIC	All	BLD		55.35	58.85	1.5	1.5	2.0	2.0	13.25	20.26	0.00	1.46	0.00	4.70	9.39
TRAFFIC SAFETY WORKER I	All	HWY		43.40	45.40	1.5	1.5	2.0	2.0	10.08	10.08	0.00	1.05	0.00	0.00	0.00
TRAFFIC SAFETY WORKER II	ALL	HWY		44.40	46.40	1.5	1.5	2.0	2.0	10.08	10.08	0.00	1.05	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	1	45.55	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	2	45.80	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	3	46.00	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	4	46.20	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	1	44.83	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	2	44.98	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	3	45.18	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	4	45.38	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TUCKPOINTER	All	BLD		52.53	53.53	1.5	1.5	2.0	2.0	11.05	23.16	0.00	1.46	0.00	0.00	0.00

Legend

Rg Region

Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers

C Class

Base Base Wage Rate

OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

OT Sa Overtime pay required for every hour worked on Saturdays

OT Su Overtime pay required for every hour worked on Sundays

OT Hol Overtime pay required for every hour worked on Holidays

H/W Health/Welfare benefit
Vac Vacation
Trng Training
Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations COOK COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

TRUCK DRIVERS (WEST) - That part of the county West of Barrington Road.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date. ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS ELECTRICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial, education, entertainment, and residential purposes, including but not limited to, communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit, such that the employees covered hereby can complete any job in full.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under: Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-

Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing

Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Class 1. Craft Foreman; Master Mechanic; Diver/Wet Tender; Engineer; Engineer (Hydraulic Dredge).

Class 2. Crane/Backhoe Operator; Boat Operator with towing endorsement; Mechanic/Welder; Assistant Engineer (Hydraulic Dredge); Leverman (Hydraulic Dredge); Diver Tender.

Class 3. Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more); Tug/Launch Operator; Loader/Dozer and like equipment on Barge, Breakwater Wall, Slip/Dock, or Scow, Deck Machinery, etc.

Class 4. Deck Equipment Operator, Machineryman/Fireman (4 Equipment Units or More); Off Road Trucks; Deck Hand, Tug Engineer, Crane Maintenance (50 Ton Capacity and Under) or Backhoe Weighing (115,000 pounds or less); Assistant Tug Operator.

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

SURVEY WORKER

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking.

SURVEY FOREMAN

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking; oversees survey crew operations; and/or coordinates work of survey crews.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

TRAFFIC SAFETY Worker I

Traffic Safety Worker I - work associated with the delivery, installation, pick-up and servicing of safety devices during periods of roadway construction, including such work as set-up and maintenance of barricades, barrier wall reflectors, drums, cones, delineators, signs, crash attenuators, glare screen and other such items, and the layout and application or removal of conflicting and/or temporary roadway markings utilized to control traffic in construction zones, as well as flagging for these operations.

TRAFFIC SAFETY WORKER II

Work associated with the installation and removal of permanent pavement markings and/or pavement markers including both installations performed by hand and installations performed by truck.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION - EAST & WEST

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives

and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

Cook County Prevailing Wage Rates posted on 11/4/2025

SECTION 02 41 00

DEMOLITION

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: All demolition, removal, and salvage work as shown on the Drawings or specified herein.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 REFERENCES

A. Standard Specifications: Unless otherwise specified, Standard Specifications shall refer to the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications.

1.03 SUBMITTALS

A. CONTRACTOR shall submit permits and notices, if required, authorizing building demolition.

1.04 QUALITY ASSURANCE

A. CONTRACTOR shall perform demolition, removal, and salvage in conformity with applicable federal, state, and local safety practices and code requirements.

B. CONTRACTOR shall contact all public utilities and shall shut off, cut and cap all utility services in accordance with utility requirements, codes, rules, and regulations.

C. Obtain and pay for all necessary permits, licenses, and certificates required.

1.05 SEQUENCE

A. No demolition, removal, or salvage work shall commence until approval to proceed has been granted by OWNER. Such work shall be completed in accordance with the construction sequence included in Division 01 of these Specifications and in accordance with the construction phases of this project and work to be done by other contractors.

B. CONTRACTOR shall not begin any demolition work for the Ravines Pumping Station without prior approval from OWNER. Such work is anticipated to start once the force main and quick connect have been installed.

1.06 MEASUREMENT AND PAYMENT

A. Pavement Removal shall be measured and paid at the Contract Price Bid per square yard at the locations and dimensions shown in the Drawings, in accordance with Section 440 of the Standard Specifications.

B. Combination Concrete Curb and Gutter Removal and Replacement: See Section 32 16 13–Concrete Curb and Gutter, Sidewalks, and Driveway Aprons for the Combination Concrete Curb and Gutter Removal and Replacement pay item.

C. Force Main to be Removed, as described herein, shall not be measured and paid for separately, but shall be considered incidental to the work. The work shall include all equipment, materials, and labor to remove the force main, and dispose of off-site.

D. Force Main to be Abandoned, as described herein, shall be considered incidental to the Work and shall not be measured or paid for separately. The mechanical cap required to seal the abandoned main shall be measured and paid for separately.

E. Pumping Station Demolition–Complete shall include all equipment, materials, labor, piping, fittings, and appurtenances to be removed, structure walls to be cored, concrete patching, top slab removal, and the disposal of materials off-site, as shown on the Drawings. This work shall not be measured separately, but shall be paid when complete at the Contract lump sum bid.

F. Sidewalk Removal shall be measured and paid for at the Contract Price Bid per square foot at the locations and dimension shown in the Drawings, in accordance with Section 440 of the Standard Specifications.

PART 2–PRODUCTS

2.01 GENERAL

A. Compacted fill shall meet the requirements of Section 31 23 00–Excavation, Fill, Backfill, and Grading.

B. Pipe fittings and materials shall meet the requirements of Section 33 00 10–Buried Piping and Appurtenances and Section 40 05 00–Piping and Appurtenances.

PART 3–EXECUTION

3.01 BREAKING DOWN AND REMOVING STRUCTURES

A. General:
   1. All existing structures, with all attached parts and connections, shown on the Drawings or specified to be removed or that interfere with the new construction, shall be entirely removed within the limits shown or specified, unless otherwise provided.
   2. When a portion of any existing structure is to be retained, CONTRACTOR shall take care during construction operations so as not to impair the value of the retained portion.
      a. Complete all operations necessary for the removal of any existing structure which might endanger the new construction prior to the construction of the new work.
      b. Do not use any equipment or devices which might damage structures, facilities, or property which are to be preserved and retained.
   3. When existing reinforcing is exposed at the surface of removal areas, CONTRACTOR shall burn back the reinforcing bars 2 inches and patch with nonshrink grout, unless noted otherwise.

B. Pavement, Curb, Gutter, Sidewalk, Driveways, Crosswalk, and Similar Structures:
   1. Where portions of the existing structure are to be left in the surface of the finished work, CONTRACTOR shall remove the structure to an existing joint, or saw and chip the structure to a true line.
   2. Sufficient removal shall be made to provide for proper grades and connections in the new work.

C. Walls, Piers, Surface Drains, Foundations, and Similar Masonry Structures:
   1. Remove entirely or break down to an elevation at least 2 feet below the earth subgrade within the areas of a road bed and elsewhere to 2 feet below the finished slopes or natural ground, as the case may be.
   2. Remove existing construction as required to clear new construction.

3.02 ABANDONING STRUCTURES

A. Manholes, Catch Basins, and Inlets:
   1. CONTRACTOR shall thoroughly clean structures to be abandoned.
   2. CONTRACTOR shall plug existing pipe connections with brick or concrete block masonry or with any grade of concrete having a 28-day compressive strength in excess of 2,000 psi.
   3. CONTRACTOR shall remove the walls of the structures to an elevation at least 3 feet below the finished grade line, or to such elevation that may be designated on the Drawings or as necessary to clear new construction.
   4. Remaining structure shall be filled with CA-7 aggregate and capped with 12 inches of compacted CA-6 aggregate. Any gap between CA-6 cap and underside of the proposed surface restoration shall be filled with the same material as the lowest layer of the proposed surface restoration.

3.03 ABANDONING AND REMOVING UTILITIES AND UNDERGROUND PROCESS PIPING

A. CONTRACTOR shall be responsible for the turning off or unhooking of all utilities and process piping before starting the demolition work. Remove all utility lines, including electrical services and process piping that are shown or specified to be removed. Remove utility lines that are to be abandoned as needed to clear new construction.

B. The ends of utility lines and process piping shown or specified to be abandoned that are exposed by excavation shall be mechanically capped to prevent soil infiltration into the pipes.

3.04 EQUIPMENT

A. CONTRACTOR shall remove all equipment specified herein or indicated.

B. CONTRACTOR shall remove associated exposed conduit, power wiring, controls, switches, instrumentation, control wiring, control boxes, appurtenances, and their supports serving equipment to be removed. Electrical items shall be removed to their junction with motor control center, control panel, or their junction with conduit serving other equipment that is to remain.

C. CONTRACTOR shall remove all piping and appurtenances and their supports serving equipment indicated to be removed. Piping shall be removed to its junction with the main service header serving other equipment that is to remain or new equipment as indicated.

Remaining piping and tubing shall be fitted with an appropriate blind flange or plug and insulated as required.

D. CONTRACTOR shall remove equipment bases, anchor bolts, and other supports serving equipment to be removed. Concrete bases shall be removed to 1 inch below floor elevation and repaired with nonshrink grout plus surfacing to match existing.

E. CONTRACTOR shall patch floors, walls, and ceilings as required to match existing or as indicated where equipment, piping, electrical, bases, or supports are removed.

3.05 INTERIOR PIPING, DUCTWORK, AND APPURTENANCES

A. CONTRACTOR shall remove all piping, ductwork, and appurtenances as indicated. The location and elevations of existing piping are approximate.

B. CONTRACTOR shall remove all supports for piping, ductwork, and appurtenances indicated to be removed. Repiping and connections to new piping shall be as specified for new piping. Remaining piping and tubing, not reconnected for new piping, shall be fitted with an appropriate blind flange or plugged and insulated as required.

C. CONTRACTOR shall patch all holes resulting from removal of piping, ductwork, appurtenances, and their supports. Patching of concrete shall be in accordance with Section 03 01 30–Concrete Surface Repair. Patch other material as indicated.

3.06 SALVAGE

A. OWNER has first right of refusal to all material, piping, and equipment removed.

B. All equipment, material, and piping, except as specified hereinafter, within the buildings and structures to be demolished and additional items as noted shall be removed by CONTRACTOR. CONTRACTOR shall inspect each structure and determine the type and amount of equipment, materials, and piping to be removed.

C. All equipment, material, and piping, except as specified hereinafter, within the limits of the demolition and additional items noted to be removed, will become the property of CONTRACTOR if OWNER does not claim under first right of refusal and shall be removed from the project site. Comply with State and local ordinances and regulations for disposing of materials.

D. If CONTRACTOR chooses to dispose of materials in a Clean Construction or Demolition Debris (CCDD) fill operation, CONTRACTOR shall provide all required testing, certifications and fees associated with using the CCDD fill operation.

3.07 BACKFILL

A. CONTRACTOR shall fill all abandoned structures and excavations resulting from removal of structures and utilities with compacted fill. See Section 31 23 00–Excavation, Fill, Backfill, and Grading for required degree of compaction.

B. Prior to filling, CONTRACTOR shall break one opening in the floor or wall near the base of each compartment to allow groundwater to freely migrate through the structure.

3.08 REMOVAL OF EXISTING PAVEMENT

A. Pavement removal, sidewalk removal, driveway pavement removal, and combination concrete curb and gutter shall be performed in accordance with Section 440 of the Standard Specifications.

B. Removals shall be performed at the locations and with the dimensions shown on the Drawings. Removals greater than the work shown on the Drawings will not be measured for payment, unless otherwise approved by OWNER and acceptable to ENGINEER. OWNER shall be notified of any changes.

END OF SECTION

SECTION 03 01 30

CONCRETE SURFACE REPAIR

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: Miscellaneous concrete surface repairs.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

C. Repair Locations: Ravines Pumping Station.

1.02 MEASUREMENT AND PAYMENT

A. Concrete surface repairs will not be measured for payment. Repairs shall be included in the cost for Pumping Station Improvements–Complete.

1.03 SUBMITTALS

A. Comply with Section 01 33 00–Submittals.

B. Product Data: Submit manufacturer's technical data sheets for each product.

C. Submit a list of project references as documented in this section under Paragraph 1.03 Quality Assurance. Include the name and phone number of the contact charged with oversight of each project.

1.04 QUALITY ASSURANCE

A. Qualifications:
   1. Manufacturer Qualifications: Company with minimum 15 years of experience in manufacturing of specified products and systems.
   2. Applicator Qualifications:
      a. Company with a minimum of 5 years of experience in the application of the specified products and systems on projects of similar size and scope, and is acceptable to product manufacturer.
      b. Successful completion of a minimum of five projects of similar size and complexity to specified Work.

1.05 PROJECT CONDITIONS

A. Environmental Requirements:
   1. Application range of repair mortar is from 20°F (min 7°C) to 85°F (29°C). Follow ACI-recommended concreting practices for hot or cold weather.
   2. Frost or frozen surfaces shall be thawed and dry.

3. Do not apply material if snow, rain, fog, or mist is anticipated within 12 hours after application. Allow surfaces to attain temperature and conditions specified before proceeding with application.

PART 2–PRODUCTS

2.01 MANUFACTURER

A. Repair materials shall be by Master Builders Solutions, or equal.

2.02 MATERIALS

A. Top Slab Surface Repairs: Repair mortar shall be one component, early strength gaining, cementitious patching material, MasterEmaco® T415 by Master Builders Solutions, or equal.

B. Reinforcing Primer: Primer for reinforcing shall be a 2-component, polymer-modified, cementitious bonding agent, and anticorrosion coating, MasterEmaco® P 124 by Master Builders Solutions, or equal.

PART 3–EXECUTION

3.01 SURFACE PREPARATION

A. Protect adjacent Work areas and finish surfaces from damage during repair work.

B. Concrete:
1. Remove concrete where shown on the Drawings.
2. After removal of concrete, but before placement, mechanically abrade concrete surface to remove bond-inhibiting materials and to provide additional mechanical bond. Do not use method of surface preparation that will fracture concrete. Verify absence of microcracking or bruising according to ICRI Guideline No. 310.2.
3. Sawcut straight edges along repair area perimeters minimum of 1 inch (25 mm) deep to eliminate feather edges. Do not cut reinforcement.
4. Report cracks that appear in interface area of patch or overlay to ENGINEER, and repair.
5. Continue expansion and control joints through repair or as required; review with ENGINEER.
6. Dampen base concrete interface to be repaired to saturated surface dry (SSD) conditions by wetting, fogging, or ponding with clean water for 24 hours.

C. Reinforcing Steel:
1. Remove oxidation and scale from exposed reinforcing steel according to ICRI Technical Guideline No. 310.1R *Guide to Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion*.
2. To prevent future steel corrosion, coat prepared reinforcing steel with reinforcing primer as specified.
3. Any existing reinforcement displaced by prior demolition operations shall be bent back into place.

3.02 INSTALLATION

A. Substrate shall be SSD with no standing water during application.

B. Mix components and apply concrete according to manufacturer’s instructions.

C. Repair areas shall be water-cured for 7 days or use an approved curing compound compatible with coatings if area is to be overcoated.

END OF SECTION

SECTION 03 30 00

CAST-IN-PLACE CONCRETE

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. All cast-in-place concrete as shown except as noted otherwise.
   2. Expansion joint fillers, bonding agents, patching mortars, curing compounds, nonshrink grout, and other related items and accessories.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 REFERENCES

A. ACI 211.1–Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete.

B. ACI 301–Specifications for Structural Concrete.

C. ACI 304R–Guide for Measuring, Mixing, Transporting, and Placing Concrete.

D. ACI 305R–Guide to Hot Weather Concreting.

E. ACI 306R–Guide to Cold Weather Concreting.

F. ACI 308–Specification for Curing Concrete.

G. ACI 309–Guide for Consolidation of Concrete.

H. ACI 318–Building Code Requirements for Structural Concrete and Commentary.

I. ASTM C31–Standard Practice for Making and Curing Concrete Test Specimens in the Field.

J. ASTM C33–Standard Specification for Concrete Aggregates.

K. ASTM C39–Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.

L. ASTM C40–Standard Test Method for Organic Impurities in Fine Aggregates for Concrete.

M. ASTM C88-Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate.

N. ASTM C94–Standard Specification for Ready-Mixed Concrete.

O. ASTM C143–Standard Test Method for Slump of Hydraulic-Cement Concrete.

P. ASTM C150–Standard Specification for Portland Cement.

Q. ASTM C156–Standard Test Method for Water Loss (from a Mortar Specimen) Through Liquid Membrane-Forming Curing Compounds for Concrete.

R. ASTM C172–Standard Practice for Sampling Freshly Mixed Concrete.

S. ASTM C231–Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method.

T. ASTM C260–Standard Specification for Air-Entraining Admixtures for Concrete.

U. ASTM C309–Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.

V. ASTM C494–Standard Specification for Chemical Admixtures for Concrete.

W. ASTM C595–Standard Specification for Blended Hydraulic Cements.

X. ASTM C618–Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete.

Y. ASTM C652–Standard Specification for Hollow Brick (Hollow Masonry Units Made From Clay or Shale).

Z. ASTM D994–Standard Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type).

AA. ASTM D1752–Standard Specification for Preformed Sponge Rubber Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction.

1.03 SUBMITTALS

A. Submit shop drawings in accordance with Section 01 33 00–Submittals.

B. Submit the following information:
   1. Gradation of fine and coarse aggregate–ASTM C33.
   2. Specific gravity and dry rodded density of each aggregate.
   3. Test of deleterious substances in fine and coarse aggregate–ASTM C33.
   4. Design mix of each individual concrete mix to be used.
   5. Previous test results or trial batch results with 7- and 28-day compressive strengths for each concrete mix proposed.
   6. Certified mill test results for cement identifying brand, type, and chemistry of cement to be used.
   7. Brand, type, principal ingredient, and amount of each admixture to be used.

C. It is important that the above data be submitted to ENGINEER well in advance of anticipated concreting operations to avoid any delay in construction.

PART 2–PRODUCTS

2.01 CEMENT

A. Cement shall be Portland cement Type I/II conforming to ASTM C150 or Portland limestone cement Type IL conforming to ASTM C595. All cement shall be the product of one reputable manufacturer and mill.

B. Cement shall be stored in a dry, weathertight, properly ventilated structure with the floor raised not less than 1 foot above the ground.

2.02 FLY ASH

A. All fly ash used as an admixture in Portland cement or Portland limestone cement concrete shall be Class C or F conforming to the requirements of ASTM C618.

2.03 AGGREGATE

A. All aggregates shall be washed and shall consist of natural sand, gravel, or crushed rock and shall have clean, hard, durable, uncoated grains of strong minerals. The amounts of deleterious substances present in the fine and coarse aggregate expressed in percentages by weight shall not exceed the following:

	Aggregate	
Deleterious Substance	Fine	Coarse
Clay Lumps and Friable Particles	3.0	3.0
Coal and Lignite	0.5	0.5
Mineral finer than No. 200 sieve	3.0	
Soft Fragments	3.0	3.0
Chert*	---	5.0
Sum of Chert and Clay Lumps		5.0

* Material classified as chert and having a bulk specific gravity of less than 2.45. The percentage of chert shall be determined on the basis of the weight of chert in the sample retained on a 3/8-inch sieve divided by the weight of the total sample.

B. The combined amount of all deleterious substances in an aggregate shall not exceed 5% of the weight of the aggregate.

C. If requested by ENGINEER, sodium sulfate soundness tests (ASTM C88) shall be performed on the aggregate. When the aggregate is subjected to 5 cycles, the weight loss shall not exceed 12%. Samples of proposed aggregates shall be submitted to an independent laboratory for testing in advance of concrete work. All testing shall be performed in accordance with ASTM C33. Certified test results shall be submitted to ENGINEER confirming that aggregate complies with all stated specifications. Report shall identify source of aggregate and absorbed water.

D. Fine aggregate shall be well-graded from coarse to fine and shall conform to the following requirements:

Percentage by Weight	
Passing 3/8-inch sieve	100
Passing No. 4 sieve	95-100
Passing No. 8 sieve	80-100
Passing No. 16 sieve	50-85
Passing No. 30 sieve	25-60
Passing No. 50 sieve	5-30
Passing No. 100 sieve	0-10

E. Gradation of fine aggregate shall be reasonably uniform and not subject to the extreme percentages of gradation specified above. The fineness modulus shall be not less than 2.3 or more than 3.1, nor shall the fineness modulus of any sample vary by more than +0.20 from the fineness modulus of the representative sample used in proportioning the concrete.

F. If requested by ENGINEER, fine aggregate shall be subjected to the color-metric test for organic impurities (ASTM C40) and shall not produce a color darker than Figure 1, unless they pass the mortar strength test. Aggregate producing color darker than Figure 2 shall not be used in any event.

G. Coarse aggregate shall be well-graded from coarse to fine, and when tested by laboratory sieves having square openings, shall conform to the following requirements:

	Percentage by Weight Aggregate	
	3/4-Inch Stone	1 1/2-Inch Stone
Passing 2-inch sieve	---	100
Passing 1 1/2-inch sieve	---	90-100
Passing 1-inch sieve	100	20-55
Passing 3/4-inch sieve	90-100	0-15
Passing 3/8-inch sieve	20-55	0-5
Passing No. 4 sieve	0-10	---
Passing No. 8 sieve	0-5	---

H. The 3/4-inch aggregate shall be used in concrete members no thinner than 4 inches and less than 10 inches thick. A blend of 3/4-inch and 1 1/2-inch aggregate shall be used in members 10 inches thick and thicker with the 3/4-inch aggregate comprising between 35% and 65% of the total course aggregate. When members thinner than 10 inches are placed monolithically with members thicker than 10 inches, the aggregate requirements for the thinner member shall apply.

I. Aggregates must be allowed to drain for at least 12 hours before being used. The ground upon which aggregates are stored must be hard, firm, well-drained, and free from all vegetable matter. Various sizes of aggregates must be stored separately, and if they have become contaminated or merged with each other, they shall not be used.

2.04 WATER

A. Water used in mixing concrete shall be clean and free from injurious amounts of oil, alkali, organic matter, or other deleterious substances.

2.05 ADMIXTURES

A. Water Reducing Admixture shall be Master Pozzolith® 200 by Master Builders Solutions, Daracem 19 by Grace, or equal. Water reducing admixture shall conform to ASTM C494, Type A and Type F. Water reducing admixture shall not reduce durability, shall increase strength 10%, and shall not affect bleeding characteristics over reference mix.

B. Air-Entraining Admixture shall be equal to MasterAir® AE 90 by Master Builders Solutions, Darex by Grace Construction Products, or equal. Air-entraining admixture shall conform to ASTM C260.

C. No other admixture will be allowed without written approval of ENGINEER. All admixture shall be compatible with cement, aggregate, and water used.

2.06 PROPORTIONING

A. The proportions of aggregate to cement shall be such as to produce a workable mixture that can be thoroughly compacted and that will work readily in the forms and around reinforcement without permitting materials to segregate or excess water to collect on the surfaces. The combined aggregates shall be such that when separated on the No. 4 sieve, the weight passing the sieve shall not be less than 30% nor greater than 50%.

B. Concrete of various classes shall have the following maximum water/cement or water/(cement + fly ash) ratio minimum compressive strengths at 28 days and minimum cement and fly ash contents:

Class	Maximum Water/ Cement or Water/ (Cement+Fly Ash)	Minimum 28 Day Strength-Pounds per Square Inch	Cement Content-Pounds per Cubic Yard	Fly Ash-Pounds per Cubic Yard	
				Type C	Type F
A	0.45	4,000	564	---	---
A-FA	0.45	4,000	480	110	125

C. Unless noted otherwise on the Drawings or in the Specifications, all other concrete shall be Class A or Class A-FA concrete.

D. Concrete topping for clarifier bottoms shall contain pea gravel, crushed stone, or other suitable coarse aggregate graded from 1/8 inch to 3/8 inch in addition to well-graded sand. Use six bags of Portland cement and 100 pounds of Class C fly ash per cubic yard. Not more than 35 gallons of mixing water per cubic yard, including free water in aggregate, shall be used. Minimum 28-day design strength shall be 4,000 psi. Provide similar mix with fibrous reinforcing added for concrete topping over precast plank.

E. All concrete mixes shall be designed for a strength of 15% above that specified to allow for job variations. All mixes shall be designed in accordance with ACI 211.1 by a qualified concrete engineer or qualified laboratory technician. Required materials test data shall be

submitted with design mixes for review and approval by ENGINEER. Mix computations shall be submitted if requested by ENGINEER.

F. The slump for all concrete shall be 3 inches and concrete with a slump within the range of 2 to 3 1/2 inches will be acceptable, unless otherwise stated.

G. A water-reducing admixture shall be used in all concrete. A qualified representative of the manufacturer shall be available to assist in proportioning the concrete, advise on the proper addition of the admixture to the concrete, and advise on adjustments of concrete proportions to suit job conditions.

H. An air-entraining admixture shall be used in all concrete except as noted. Air content shall be tested by the pressure method as outlined in ASTM C231 and shall be between 4% to 7% by volume. An air-entraining admixture is not required for concrete patching and for concrete floors, equipment pads, and supports in interior heated buildings where the concrete will be protected from freezing during and after construction.

I. CONTRACTOR shall submit to ENGINEER concrete cylinder compressive strength results from previous projects for the same concrete mixes proposed on the current project. If this information is not available, one cubic yard trial batches of each individual mix proposed for use shall be made prior to use in the work. Four test cylinders shall be made for each trial batch, two to be tested at 7 days and two at 28 days. The trial batches shall be made preceding actual placement operations so that the results of the 7-day tests can be obtained. All costs for material, equipment, and labor incurred during design of concrete mixes shall be borne by CONTRACTOR.

J. All aggregates shall be measured by weight. The concrete mixer is to be equipped with an automatic water-measuring device that can be adjusted to deliver the desired amount of water.

2.07 JOINT FILLER

A. Expansion joints shall have standard 1/2-inch-thick cork expansion joint filler, W. R. Meadows, or equal, meeting ASTM D1752–Type II. Exceptions to this are expansion joints in exterior concrete walks and between concrete walks and other structures which shall be asphalt expansion joint filler, 1/2-inch-thick, Grace, W.R. Meadows, or equal, meeting ASTM D994.

2.08 BONDING AGENT

A. Bonding agent for bonding new concrete to existing concrete at construction joints and for bonding concrete overlays to existing concrete shall be a liquid latex product meeting ASTM C1059, Type II. Acceptable products include Eucoweld 2.0 by Euclid Chemical, Acrylic Bonding Agent J40 by Dayton Superior, or equal.

2.09 PATCHING ADDITIVE

A. Acceptable manufacturers include MasterEmaco® A 660 by Master Builders Solutions, Sonocrete by Sonneborn Contech Co., or equal.

2.10 NONSHRINK GROUT

A. Acceptable manufacturers include Dayton Superior, Master Builders Solutions, or equal. Grout shall be nonshrink, nonmetallic and shall achieve a strength of 7,500 psi in 28 days.

PART 3–EXECUTION

3.01 MIXING

A. Ready-mixed concrete shall be batched, mixed, and delivered in accordance with ASTM C94 and ACI 304R. In general, concrete shall be mixed 50 revolutions at plant, 20 upon arrival at site, and 20 each time water is added; maximum of 110 revolutions at mixing speed. Concrete shall be delivered and discharged within 1 1/2 hours or before the drum has revolved 300 times after introduction of water to the cement and aggregates or the cement to the aggregates. Truck mixers shall be equipped with drum revolution counters. In no event shall concrete which has taken its initial set be allowed to be used. Retempering of concrete is not permitted.

B. A representative of ENGINEER may be at the batching plant periodically to observe the batching and mixing.

C. No water shall be added on the job unless required by CONTRACTOR and with the knowledge of ENGINEER; the amount of water, if added, shall be recorded on all copies of the delivery tickets. If water is added, CONTRACTOR shall verify that the required water-cement ratio is not exceeded.

D. Concrete shall have a temperature not less than 60°F nor more than 80°F as delivered to the jobsite.

E. With each load of concrete, CONTRACTOR shall obtain delivery tickets and shall make these tickets available for review by ENGINEER. Delivery tickets shall provide the following information:
   1. Date.
   2. Name of ready-mix concrete plant, job location, and CONTRACTOR.
   3. Type of cement and admixtures, if any.
   4. Specified cement content in sacks per cubic yard of concrete and approved concrete mix number or designation.
   5. Amount of concrete in load, in cubic yards.
   6. Water-cement ratio.
   7. Water added at job, if any.
   8. Truck number and time dispatched.
   9. Number of mixing drum revolutions.

F. For job-mixed concrete, all concrete materials shall be mixed in a machine batch mixer for at least 1 1/2 minutes after all ingredients are in the mixer and shall continue until there is a uniform distribution of the materials and the mass is uniform in color and homogeneous. The mixer shall not be loaded beyond the capacity given by the manufacturer and shall be rotated at the speed recommended by the manufacturer. The mixer is to be provided with positive timing device that will positively prevent discharging the mixture until the specified mixing time has elapsed.

3.02 JOINTS

A. CONTRACTOR shall place all joints as shown on the Drawings or specified herein. If acceptable to ENGINEER, CONTRACTOR may, at its own expense, place construction joints in addition to and at places other than those shown on the Drawings. Unless otherwise shown, all joints shall be straight, truly vertical or horizontal, and proper methods shall be employed to obtain this result.

B. Where construction joints are not shown on the Drawings or specified elsewhere, CONTRACTOR shall provide construction joints in walls as follows:
   1. Vertical construction joints at 60 feet on center maximum but not more than 15 feet from corners or intersections.
   2. Horizontal construction joints at 18 feet on center maximum for walls 12 inches or more in thickness.
   3. Horizontal construction joints of 8 feet on center maximum for walls 10 inches or less in thickness.

C. Immediately after completion of the first pour at a joint, the concrete surface, reinforcement, and waterstop projecting beyond the joint shall be thoroughly cleaned and laitance removed. The waterstops shall not be disturbed after the concrete in the first pour at a joint has set. Concrete around waterstops shall be thoroughly compacted by hand spading and vibrating. Immediately before the second pour, all extraneous matter shall be removed from the joint, the waterstop and steel cleaned, and the surface thoroughly wetted.

D. Concrete at all joints shall have been in place at least 48 hours before abutting concrete is placed. At least two hours must elapse after depositing concrete in columns or walls before depositing in beams, girders, or slab supported thereon. Beams, girders, brackets, column capital, and haunches shall be considered as part of the floor system and shall be placed integrally therewith.

3.03 BONDING TO EXISTING CONCRETE

A. When placing new concrete adjacent to existing concrete, the existing concrete shall be thoroughly roughened, cleaned, and saturated with water 24 hours before pouring new concrete. Existing concrete is defined as concrete more than six months old. At time of new pour, remove any standing water and apply bonding agent. Bonding agent shall be applied in accordance with manufacturer’s recommendations.

3.04 PATCHING EXISTING CONCRETE

A. When patching existing concrete, remove poor concrete until firm hard concrete is exposed; roughen and clean surface of the existing concrete, clean any exposed reinforcing bars, and pour new concrete. Concrete finish shall match existing concrete. New concrete shall be 4,000 psi 28-day strength mixed with patching additive, mixed according to manufacturer’s instructions. Concrete shall not be air-entrained.

3.05 EMBEDDED ITEMS IN CONCRETE

A. All sleeves, inserts, anchors, and embedded items required for adjoining work or for its support shall be placed prior to concreting.

B. All contractors whose work is related to the concrete or must be supported by it shall be given ample notice and opportunity to introduce and/or furnish embedded items before the concrete is placed.

C. Embedded items shall be positioned accurately and supported against displacement. Reinforcing bars shall clear embedded items a minimum of 2 inches.

3.06 PLACING CONCRETE

A. Before placing concrete, all equipment, forms, ground, reinforcements, and other surfaces with which the concrete will come in contact are to be thoroughly cleaned of all debris, ice, and water. Ground shall be wetted prior to placement of concrete on it.

B. After reinforcement is placed and before concrete is placed over it, ENGINEER shall be allowed sufficient time to observe the reinforcing.

C. Unless otherwise authorized by ENGINEER, all concrete shall be placed in the presence of ENGINEER.

D. Concrete shall be conveyed from the mixer to the place of final deposit as rapidly as practicable by methods that will prevent the segregation or loss of materials. Chuting for conveying purposes must be accomplished in such a manner as to prevent segregation or loss of materials. Receiving hoppers shall be installed at the chute discharge and at no point in its travel from the mixer to place of final deposit shall the concrete pass through a free vertical drop of more than 3 feet. Elephant trunks or tremies shall be used in all wall pours to prevent coating of forms and reinforcing bars.

E. Care shall be taken to avoid an excess of water on the concrete surface. Excess water shall be drained or otherwise removed from the surface. Dry cement or a mixture of cement and sand shall not be sprinkled directly on the surface to absorb water.

F. Concrete in wall and beam pours shall be deposited in approximately horizontal layers not to exceed 18 inches in thickness. Each layer shall be well worked into the preceding layer while both layers are still soft.

G. Concrete shall be deposited as nearly as practicable in its final position to avoid segregation from rehandling or flowing. The maximum allowable lateral movement of the concrete after being deposited is 3 feet. Once concreting is started, it shall be carried on as a continuous operation until the placing of the section or panel is completed.

H. All concrete shall be placed with the aid of mechanical vibrating equipment in accordance with ACI 309. In congested areas, vibration shall be supplemented by hand spading adjacent to the forms. Vibration should secure the desired results within 5 to 15 seconds at intervals of 18 inches apart maximum. The vibrator shall penetrate the preceding layer of concrete. Vibrators shall have a frequency of not less than 10,000 impulses per minute when in operation submerged in concrete.

I. A sufficient number of spare vibrators shall be kept in ready reserve to provide adequate vibration in case of breakdown of those in use.

J. In placing concrete in beams where it is intended to be continuous and monolithic with the slab above, a delay to provide for settlement of the deep concrete shall be scheduled before placing the upper concrete in the slab. The length of delay shall be as long as possible and still permit the revibration of the deep concrete.

K. Concrete is not to be placed under water. A suitable means shall be provided for lowering the water level below surfaces upon which concrete is to be placed. This may require

excavating approximately 12 inches below the bottom of the concrete surface and refilling with gravel and compacting. The groundwater shall not be allowed to rise to the bottom of the concrete until 24 hours after the concrete pour has been completed. Water shall not be allowed to fall upon or run across the concrete during this period.

L. No extra payment will be allowed for dewatering, undercutting, and gravel fill.

3.07 MOIST CURING

A. All concrete shall be maintained in a moist condition for at least 7 days after being deposited except that for high-early strength concrete, a 3-day period will be sufficient. Moist curing shall be accomplished by one of the following methods:
   1. Wood forms left in place and kept wet at all times. If wood forms are not going to be kept wet or if metal forms are used, they shall be removed as soon as practicable and other methods of moist curing shall be started without delay.
   2. Use of a curing compound conforming to ASTM C309, Type I as approved by ENGINEER. Curing compound shall be applied at a uniform rate as indicated by the manufacturer sufficient to comply with the requirements of the test water retention of ASTM C156. Curing compound applied to vertical concrete surfaces after forms are removed shall be specially adapted to provide required coverage on the vertical surface. On nonformed surfaces, the curing compound shall be applied immediately after the disappearance of the water sheen after finishing of the concrete. Curing compound shall not be used on concrete surfaces that are to be painted, receive ceramic tile or resilient flooring, or be waterproofed. The curing compound for potable water structures shall be certified per NSF/ANSI-61. Care shall be taken not to get curing compound on construction joints, reinforcing steel, and other surfaces against which new concrete will be poured.
   3. Use of plastic film. Plastic film shall have a minimum thickness of 4 mils. It shall be placed over the wet surface of the fresh concrete as soon as possible without marring the surface and shall be weighted so that it remains in contact with all exposed surfaces of the concrete. All joints and edges shall be lapped and weighted. Any tears in the film shall be immediately repaired.
   4. Application of wet coverings weighing 9 ounces per square yard such as burlap, cotton mats, or other moisture-retaining fabrics. The covering system shall include two layers and shall be kept continuously moist so that a film of water remains on the concrete surface throughout the curing period.
   5. Use of an approved waterproof curing paper. Edges of adjacent sheets shall be overlapped several inches and tightly sealed.
   6. Ponding of water or continuous sprinkling of water is permitted. Sprinkling at intervals will not be permitted.
   7. Construction joints shall be moist cured by one of the methods listed above except by Method “2.”

B. The use of moist earth, sand, hay, or another method that may discolor hardened concrete will not be permitted.

3.08 HOT WEATHER CONCRETING

A. When the atmospheric temperature exceeds 80°F during concrete placement, this section and ACI 305 shall apply in addition to all other sections of the specifications.

B. The temperature of the delivered concrete shall not exceed 85°F.

C. Care shall be exercised to keep mixing time and elapsed time between mixing and placement at a minimum. Ready-mix trucks shall be dispatched so as to avoid delay in concrete placement, and the work shall be organized to use the concrete promptly after arrival at the jobsite.

D. The subgrade, forms, and reinforcing shall be sprinkled with cool water just prior to placement of concrete. Prior to placing concrete, there shall be no standing water or puddles on the subgrade.

E. If approved by ENGINEER, an admixture for retarding the setting of the concrete may be used.

F. Exposed concrete surfaces shall be carefully protected from drying. Continuous water curing is preferred. Curing compounds shall be white pigmented.

3.09 COLD WEATHER CONCRETING

A. Conditions of this section shall apply, in addition to all other sections of the specifications, when placing concrete in cold weather. Cold weather is defined as a period when, for more than three successive days, the average daily temperature drops below 40°F. When temperatures above 50°F occur during more than half of any 24-hour period, the period will no longer be regarded as cold weather. The average daily temperature is the average of the highest and lowest temperature during the period from midnight to midnight. Cold weather concreting shall conform to all requirements of ACI 306.1, except as modified by the requirements of these specifications.

B. Detailed procedures for the production, placement, protection, curing, and temperature monitoring of concrete during cold weather shall be submitted to ENGINEER. Cold weather concreting shall not begin until these procedures have been reviewed for conformance with ACI 306.1.

C. All concrete materials, forms, ground, mixing equipment, and other surfaces with which the concrete is to come in contact shall be free from frost, and the temperature of contact surfaces shall be 35°F or above. Ground upon which concrete is to be placed shall not be frozen at any depth.

D. The mixing water and aggregates shall be heated and when entering the mixer shall have temperatures not exceeding 175°F and 80°F, respectively. Concrete temperature as mixed shall not exceed 80°F and shall typically be between 55°F and 70°F. Concrete, when placed in the forms, shall have a temperature of not less than 50°F.

E. Freshly placed concrete shall be protected by adequate covering, insulating, or housing and heating. If heating is used, ambient temperature inside the housing shall be maintained at a minimum of 70°F for 3 days or 50°F for 5 days. The maximum ambient temperature during curing shall not exceed 80°F. If insulating methods are used, recommendations contained in ACI 306R shall be followed. Surface temperature shall be maintained at 50°F for 7 days. After the curing period, the temperature of the concrete shall be reduced uniformly at a rate not to exceed 40°F per 24 hours until outside air temperature is reached. Heating of enclosure shall continue if it is anticipated that the outside air temperature will drop more than 20°F in the next 24 hours. The concrete temperature shall be obtained by attaching a thermometer provided by CONTRACTOR to the concrete surface. Concrete shall be kept moist.

F. If heating is used, the housing shall be constructed weathertight and shall be constructed in a manner that will provide uniform air circulation and air temperatures over the complete concrete area that is being cured. Special attention shall be given to the edges and ends of a concrete pour with the housing extending at least 5 feet beyond any concrete surface being protected. The housing shall be in place and heat applied within 2 hours after concrete placement.

G. Heating may be by steam or hot air. Heaters shall be vented to outside of the housing. Open burning salamanders will not be permitted. Heating devices shall not be placed so close to the concrete as to cause rapid drying or discoloration from smoke.

H. If heating is used, CONTRACTOR shall provide sufficient 24-hour inspection of the heaters to provide compliance with the above-specified temperature requirements during the curing period. CONTRACTOR shall provide maximum-minimum thermometers for ENGINEER's use.

I. The use of calcium chloride, salts, or other chemical admixtures for the prevention of freezing is prohibited.

J. Salts or other deleterious materials shall not be used on temporary or permanent structures above concrete surfaces that are being placed, finished, or cured.

3.10 FINISHING

A. Flat Work:
   1. Floated Finish: Place, consolidate, strike off, and level concrete eliminating high spots and low spots. Do not work concrete further until it is ready for floating. Begin floating with a hand float, a bladed power float equipped with float shoes, or a powered disk float when the bleed water sheen has disappeared and the surface has stiffened sufficiently to permit the operation. Immediately refloat the slab to a uniform texture.
   2. Light Troweled Finish: Float concrete surface, then power trowel the surface. Hand trowel the surface smooth and free of trowel marks.
   3. Hard Troweled Finish: Float concrete surface, then power trowel the surface. Hand trowel the surface smooth and free of trowel marks. Continue hand troweling until a ringing sound is produced as the floor is troweled.
   4. Tolerance for concrete floors shall be 1/4 inch within 10 feet in any direction. Straight edge shall be furnished by CONTRACTOR.
   5. Broom or Belt Finish: Immediately after concrete has received a floated finish, give the concrete surface a coarse transverse scored texture by drawing a broom or burlap belt across the surface.
   6. The above finishes shall be used in the following locations:
      a. Float Finish: Surface to receive roofing, waterproofing, or sand bed terrazzo.
      b. Light Troweled Finish: Submerged tank slabs.
      c. Hard Troweled Finish: Building floors.
      d. Broom or Belt Finish: Exterior slabs, sidewalks, tops of walls, and tank slabs to receive grout topping.

B. Formed Surfaces:
   1. Within 2 days after removing forms and prior to application of a curing compound, all concrete surfaces shall be observed and any poor joints, voids, stone pockets, or other defective areas shall be patched at once before the concrete is thoroughly dry. Defective areas shall be chipped away to remove all loose and partially bonded aggregate. The area shall be thoroughly wetted and filled with as dry as practical mortar mix placed to slightly overfill the recess. Mortar shall include a bonding agent. After partial set has

taken place, the excess mortar shall be removed flush with the surface on the concrete using a wood float. All patching shall be cured, protected, and covered as specified for concrete. All cracks, leaks, or moist spots that appear shall be repaired. No extra compensation will be allowed CONTRACTOR for such work.

2. The exterior or removal portion of nonremovable ties shall be removed with the use of a special tool designed for this purpose. Cutting or chipping of concrete to permit removal of exterior portion will not be permitted.
3. For nonremovable ties, tie rod holes left by the removal of the exterior portion of the tie and cone shall be thoroughly wetted and filled by ramming with as dry as practical mortar mix in such a manner such that it completely fills the hole. Mortar shall include a bonding agent. All patching shall be cured, protected, and covered as specified for concrete. The holes are to be filled immediately after removal of the exterior portion of the tie.
4. Holes left by removable ties shall be filled by installing a neoprene plug near the center of the wall. The balance of the hole shall be filled with mortar as specified above to within 1 inch of the face of the wall. The remainder of the hole shall be filled with a waterproofing compound.
5. All finished or formed surfaces shall conform accurately to the shape, alignment, grades, and sections as shown or prescribed by ENGINEER. All surfaces shall be free from fins, bulges, ridges, offsets, honeycombing, or roughness. All sharp angles, where required, shall be rounded or beveled. Any formed surface to be painted shall be free of any material that will be detrimental to the paint. The surface of the concrete shall be given one of the following finishes immediately after form stripping:
    a. Finish A shall be referred to as a sack finish. Surfaces shall be free of contaminants prior to sacking. After wetting the surface, a grout shall be rubbed in using a rubber float or burlap. After the grout hardens sufficiently, it shall be scraped from the surface with the edge of a steel trowel without disturbing the grout in the air holes. After further drying, the surface shall be rubbed with burlap to remove all surface grout. The entire surface shall be finished to secure a continuous, hard, dust-free uniform texture surface free from pinholes and other minor imperfections. Finish A will be required for all unpainted surfaces, interior surfaces of equipment rooms, operation areas, and permanently exposed vertical surfaces. Where steel-faced forms are used to form walls, the portion of wall to receive the sack finish shall first be roughened by brush blasting or other acceptable method to achieve a texture similar to 40 to 60 grit sandpaper.
    b. Finish B shall be the same as Finish A, except that the final burlap rubbing may be omitted, providing the steel trowel scraping removes the loose buildup from the surface. Finish B shall be provided for waterproof- and moistureproof-coated surfaces.
    c. Finish C shall be referred to as a finish that has surface imperfections less than 3/8 inch in any dimension. Surface imperfections greater than 3/8 inch shall be repaired or removed and the affected areas neatly patched. Finish C or smoother shall be provided for interior surfaces of wet wells, tanks, and channels from 1 foot below minimum water surfaces and down and otherwise unfinished interior surfaces.
    d. Finish D shall be the finish for surfaces that may be left as they come from the forms, except that tie holes shall be plugged and defects greater than 1/2 inch in any dimension shall be repaired. Finish D shall be provided for surfaces to be buried or covered by other construction such as masonry veneer.

C. All precautions shall be taken to protect the concrete from stains or abrasions, and any such damage shall be removed or repaired under this Contract.

3.11 LOADING OF CONCRETE STRUCTURES

A. No concrete structure or portion thereof shall be loaded with its design load until the concrete has obtained its specified 28-day compressive strength. This shall include but not be limited to vertical live load, equipment loading, water loading, groundwater loading, and backfill load. Concrete strength at time of loading shall be determined by testing field-cured concrete cylinders.

B. Extreme care shall be taken so that construction loads do not exceed design loading of the structure.

3.12 NONSHRINK GROUT

A. Nonshrink, nonmetallic grout shall be used for filling recesses and pockets left for equipment installation and for setting of base plates. The material used shall be approved by ENGINEER. Store, mix, and place the nonshrinking compound as recommended by the manufacturer. The minimum compressive strength shall be 5,000 psi at age 7 days and 7,500 psi at age 28 days.

3.13 TESTING AND SAMPLING

A. The following tests of fresh concrete shall be performed by CONTRACTOR. CONTRACTOR shall prepare, protect, transport, and have tested all cylinders at its expense.
   1. Sampling of concrete for slump tests, air tests, temperature tests, and for making concrete test cylinders shall be performed in accordance with ASTM C172.
   2. Cylinders:
      a. Three test cylinders shall be made for each pour less than 25 cubic yards, four test cylinders shall be made for each pour between 25 and 100 cubic yards, and eight test cylinders shall be made for each pour in excess of 100 cubic yards. Each concrete mix shall be represented by at least four cylinders for the entire job. Concrete for cylinders shall be collected near the middle of the load and/or as requested by ENGINEER.
      b. Cylinders shall be made and tested in accordance with ASTM C31 and ASTM C39, respectively. The cylinders must be kept moist and at temperatures between 60°F and 80°F and shall remain undisturbed and stored in a location free from vibration. In hot weather, the cylinders shall be covered with wet burlap and stored in a shaded area. It is CONTRACTOR's responsibility to provide a suitable protected location for storing cylinders on the jobsite.
      c. After 24 hours, the cylinders shall be transferred to an independent testing laboratory acceptable to OWNER. The cylinders shall be packed in sawdust or other cushioning material for transit to avoid any bumping or jarring of the cylinders.
      d. Cylinders shall be broken at 7 and 28 days or as requested by ENGINEER. Test results shall be transmitted immediately and directly to ENGINEER and OWNER. Test data shall include date and location of pour and concrete mix used.
   3. Slump Test: CONTRACTOR shall make one slump test near the beginning of all pours with two tests being made for all pours in excess of 25 yards or as requested by ENGINEER. Slump tests shall conform to ASTM C143.
   4. Air Test:
      a. When air-entrained concrete is used, the air content shall be checked by CONTRACTOR near the beginning of all pours with at least two checks being made for all pours in excess of 25 cubic yards, or as requested by ENGINEER.
      b. The air contents shall be checked using the pressure method in accordance with ASTM C231. The pocket-sized alcohol air indicator shall not be used unless it is first used in conjunction with the pressure method test.

B. All costs of additional testing and sampling of fresh or hardened concrete needed because of suspected or actual violation of the specifications shall be borne by CONTRACTOR.

3.14 RECORDS

A. A record is to be kept of all concrete work. The record shall include the date, location of pour, concrete mix, slump, air content, test cylinder identification, concrete temperature, and ambient air temperature. In addition, for cold weather concreting the record shall include the daily maximum-minimum thermometer readings of all thermometers during the entire curing period for all concrete pours. The Resident Project Representative will keep this record, and CONTRACTOR shall assist in obtaining needed information.

3.15 CONCRETE REMOVAL AND PATCHING

A. All areas disturbed as a result of concrete removal or repair shall be patched as specified in Bonding to Existing Concrete.

END OF SECTION

SECTION 05 56 00

ANCHOR BOLTS AND POST-INSTALLED ANCHORS

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: Anchor bolts, expansion bolts, adhesive anchors, and screw anchors.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 REFERENCES

A. ASTM A36/A36M–Standard Specification for Carbon Structural Steel.

B. ASTM F1554–Anchor Bolts, Steel, 36, 55, and 105-ksi yield strength.

C. ICC-ES International Code Council–Evaluation Service.

D. AC 193–Acceptance Criteria for Mechanical Anchors in Concrete Elements.

E. AC 308–Acceptance Criteria for Post-Installed Adhesive Anchors in Concrete.

F. ACI 355.2–Qualification of Post-Installed Mechanical Anchors in Concrete and Commentary.

G. ACI 355.4–Qualification of Post-Installed Adhesive Anchors in Concrete and Commentary.

PART 2–PRODUCTS

2.01 GENERAL

A. Unless indicated otherwise on the Drawings or specified, use the following bolt material for the various installation situations:
   1. Stainless Steel: For all submerged locations, below final grade, and in contact with aluminum appurtenances and other items not to be painted. Also for anchoring equipment, unless otherwise specified.
   2. Steel: In other locations in contact with items to be painted or encased in concrete.

2.02 ANCHOR BOLTS

A. Anchor bolts complete with washers and nuts shall be fabricated as shown or as specified by the equipment manufacturer and unless otherwise indicated shall be hot-dip galvanized carbon steel or 316 stainless steel. Anchor bolts shall, as a minimum, conform to the requirements of ASTM F1554-Grade 36.

B. Stainless steel anchor bolts shall be used in all submerged locations, below final grade, and in contact with aluminum and other items not to be painted. Galvanized anchor bolts shall be used elsewhere.

2.03 EXPANSION BOLTS

A. Expansion bolts shall be KWIK Bolt TZ by Hilti, Inc., Power-Stud+ SD2, SD4, or SD6 by DeWalt, Strong-Bolt or Strong-Bolt 2 by Simpson Strong-Tie Anchor Systems, or approved equal.

B. All expansion bolts shall comply with the 2015 International Building Code, AC 193, and ACI 355.2. They shall be ICC-ES approved for use in cracked and uncracked concrete.

C. Expansion bolts will not be permitted as substitutes for embedded anchor bolts except with the prior written acceptance of ENGINEER or where otherwise specifically called for.

2.04 ADHESIVE ANCHORS

A. Adhesive anchors shall be HIT HY 200 by Hilti, Inc., Red Head C6+ or Red Head A7+ by ITW, Pure 110+ or AC200+ by DeWalt, Set-XP by Simpson Strong-Tie Anchor Systems, or approved equal.

B. All adhesive anchors shall comply with the 2015 International Building Code, AC 308, and ACI 355.4. They shall be ICC-ES approved for use in cracked and uncracked concrete.

PART 3–EXECUTION

3.01 ANCHOR BOLTS

A. Anchor bolts for structural members shall be located as shown and specified.

B. Anchor bolts for mechanical equipment shall have embedment length, edge distances, and spacing as required by the equipment manufacturer.

C. All dirt or foreign materials shall be removed prior to embedding into concrete. After anchor bolts have been embedded, their threads shall be protected by grease and by installing the nuts or by other means until the time of installation of the equipment or metal work.

3.02 EXPANSION BOLTS

A. Unless otherwise noted on the Drawings, expansion bolt edge distance and spacing shall be in accordance with manufacturer’s printed installation instructions.

B. Bolt embedment shall at least equal 6-bolt diameters.

C. Installation procedures shall be in accordance with the manufacturer’s printed installation instructions.

D. Where location of bolts is adjustable, reinforcing steel shall be located prior to drilling holes and bolts shall be located to clear reinforcing steel.

3.03 ADHESIVE ANCHORS

A. At locations shown on the Drawings, reinforcing bars or threaded rod shall be provided in existing concrete by drilling holes, injecting epoxy adhesive, and inserting the reinforcing bar.

B. All existing surfaces to receive adhesive anchors, including the entire area in contact with the new concrete, shall be cleaned and roughened to amplitude of 1/4 inch.

C. Installation procedures shall be in accordance with the manufacturer's printed installation instructions.

D. Where location of anchors is adjustable, reinforcing steel shall be located prior to drilling holes and anchors shall be located to clear reinforcing steel.

E. CONTRACTOR shall arrange an anchor manufacturer's representative to provide on-site installation training for installation of their adhesive anchor system products. Submit documentation that all CONTRACTOR's personnel or subcontractors who install adhesive anchors have been trained prior to the announcement of anchor installation.

END OF SECTION

SECTION 08 31 13

ACCESS DOORS AND FRAMES

PART 1–GENERAL

1.01 SUMMARY

A. Work included: Aluminum and steel access doors and frame units.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 MEASUREMENT AND PAYMENT

A. Type K door, of size specified, shall be included in the cost for Pumping Station Improvements–Complete.

PART 2–PRODUCTS

2.01 ALUMINUM FLOOR DOORS AND FRAMES

A. Acceptable products include the following, or equal: The Bilco Company, Types K or J as scheduled.

B. Type K doors shall be designed for minimum live load of 150 psf with a maximum deflection of 1/150 of span.

C. Doors shall be constructed of stiffened 1/4-inch aluminum diamond-pattern plate.

D. A continuous EPDM gasket shall be mechanically attached to the frame around the entire perimeter.

E. Hinges shall be through bolted to the door and frame with tamper-proof Type 316 stainless steel lock bolts.

F. Type K doors shall have cast steel cam-action hinges that pivot on torsion bars. Doors shall have smooth controlled operation and not be affected by temperature.

G. Provide hold-open arm that automatically locks in open position. Provide snap lock with fixed handle mounted to underside of cover. Provide removable exterior turn/lift handle with spring-loaded ball detent to open cover. All hardware shall be Type 316 stainless steel for corrosive environment.

2.02 FINISH

A. Aluminum floor doors and frames shall have mill finish. Apply bituminous coating to portions of frames in contact with concrete.

B. Steel access doors shall have shop-applied prime coat compatible with field paint system specified.

2.03 ACCESSORIES

A. Provide Bilco Ladder-Up, or equal, at all floor doors that have a ladder access. Materials and finishes shall be aluminum, mill finish.

B. All aluminum floor/door openings shall be fitted with a permanently installed, fall-through prevention rail and net system that is easily retractable for access to the opening below. This system shall be Hatch Net 121 as manufactured by Safe Approach, Inc., Poland, Maine, or approved equal.

C. The fall-through prevention system shall consist of the following components:
1. A polyester safety net manufactured to ANSI A10.11 specification for personnel nets.
2. Extruded aluminum side rails: Aluminum Alloy 6061-T-6 with an ultimate tensile strength of 18 KSI, a yield strength of 8 KSI, and a shear strength of 12 KSI.
3. 316 stainless steel corner hooks.

D. Each net assembly will come with a permanently attached label with the following information: Name of manufacturer, identification of net material, date of manufacture, date of prototype test, name of testing agency, and serial number.

E. All stainless steel hardware and instructions necessary for proper installation of the net system shall be provided by the net system manufacturer. Installation shall be in accordance with the manufacturer's instructions.

F. The complete assembly, including the net, shall be warranted against defects in material and workmanship for manufacturer's standard time period.

PART 3–EXECUTION

3.01 INSTALLATION

A. Installation shall be in accordance with manufacturer's instructions and approved submittals. Locate units level, plumb, and in proper alignment with adjacent work.

B. Provide piping from channel frames for Type J floor doors from outlet to base of wall nearest floor drain or through wall to ground for tank structures. Terminate pipe in minimum 1 cubic foot of clear stone if termination is below ground.

3.02 ADJUSTING AND CLEANING

A. Clean exposed surfaces using methods acceptable to the manufacturer that will not damage finish.

B. Test units for proper function and adjust until proper operation is achieved.

C. Repair finishes damaged during installation.

D. Restore finishes so no evidence remains of corrective work.

END OF SECTION

SECTION 10 00 20

MISCELLANEOUS SPECIALTIES

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: Removable Steel Bollard.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 MEASUREMENT AND PAYMENT

A. Removable Steel Bollard shall be measured and paid for at the Contract Price Bid per each. This Work shall include all the labor, materials, equipment, to complete the Work.

PART 2–PRODUCTS

2.01 REMOVABLE STEEL BOLLARD

A. Provide removable steel bollards where shown on the Drawings. Bollards shall have an impact capacity of 10,000 lbs at 5 mph. Bollards shall have a high-visibility yellow painted finish. Bollards shall be Global Industrial Model 670518, or equal. CONTRACTOR shall provide a padlock and with 2 keys for OWNER.

PART 3–EXECUTION

3.01 INSTALLATION

A. Install accessories in accordance with manufacturer’s instructions.

END OF SECTION

SECTION 22 05 29

HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: Hangers and supports for Plumbing Piping and Equipment.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 REFERENCES

A. The latest published edition of a reference shall be applicable to this Project unless identified by a specific edition date.

B. All materials, installation and workmanship shall comply with the applicable requirements and standards addressed within this specification.

1.03 QUALITY ASSURANCE

A. Quality assurance shall be in accordance with Section 01 45 00–Quality Control.

1.04 SUBMITTALS

A. Submit shop drawings and product data in accordance with provisions of Section 01 33 00–Submittals.

1.05 OPERATION AND MAINTENANCE DATA

A. All operations and maintenance data shall comply with the submission and content requirements specified under Section 01 33 00–Submittals.

PART 2–PRODUCTS

2.01 MANUFACTURERS

A. Anvil, B-Line, Pate, G-Strut, Piping Technology, Roof Products & Systems or approved equal.

2.02 STRUCTURAL SUPPORTS

A. Provide all supporting steel required for the installation of mechanical equipment and materials, including angles, channels, beams, etc. to suspended or floor supported tanks and equipment. All of this steel may not be specifically indicated on the Drawings.

2.03 PIPE HANGERS AND SUPPORTS

A. Floor Support: Carbon steel pipe saddle, stand and bolted floor flange. B-Line B3088T/B3093.

PART 3–EXECUTION

3.01 INSTALLATION

A. Size, apply and install supports and anchors in compliance with manufacturers recommendations.

B. Install supports to allow free expansion of the piping system. Support all piping from the structure using concrete inserts, beam clamps, ceiling plates, wall brackets, or floor stands. Fasten ceiling plates and wall brackets securely to the structure and test to demonstrate the adequacy of the fastening.

C. Coordinate hanger and support installation to properly group piping of all trades.

D. Where piping can be conveniently grouped to allow the use of trapeze type supports, use standard structural shapes or continuous insert channels for the supporting steel. Where continuous insert channels are used, pipe supporting devices made specifically for use with the channels may be substituted for the specified supporting devices provided that similar types are used and all data is submitted for prior approval.

E. Size and install hangers and supports, except for riser clamps, for installation on the exterior of piping insulation. Where a vapor barrier is not required, hangers may be installed either on the exterior of pipe insulation or directly on piping.

F. Perform welding in accordance with standards of the American Welding Society.

3.02 HANGER AND SUPPORT SPACING

A. Install hangers to provide minimum 1/2-inch space between finished covering and adjacent work.

B. Place a hanger within 12 inches of each horizontal elbow, valve, strainer, or similar piping specialty item.

C. Use hangers with 1 1/2-inch minimum vertical adjustment.

D. Where several pipes can be installed in parallel and at the same elevation, provide multiple or trapeze hangers.

E. Support riser piping independently of connected horizontal piping.

F. Adjust hangers to obtain the slope specified in the piping section of these specifications.

G. Space hangers for pipe as follows:

Pipe Material	Pipe Size	Maximum Horizontal Spacing	Maximum Vertical Spacing
Cast Iron[1]	2" and larger	5'-0"	15'-0"
Copper	1/2" through 3/4"	5'-0"	10'-0"
Copper	1" through 1 1/4"	6'-0"	10'-0"
Copper	1 1/2" through 2 1/2"	8'-0"	10'-0"
Copper	3"	10'-0"	10'-0"
Copper	4" and larger	10'-0"	10'-0"
Ductile Iron[1]	All	5'-0"	15'-0"
Steel	1/2" through 1 1/4"	7'-0"	15'-0"
Steel	1 1/2" through 6"	10'-0"	15'-0"
Steel	8" through 12"	12'-0"	15'-0"
Steel	14" and over	12'-0"	15'-0"
PVC	All	4'-0"	10'-0"
CPVC	All	4'-0"	10'-0"

[1] The maximum horizontal spacing for supports may be increased to 10 feet when 10-foot lengths of pipe are employed.

H. Any piping materials not explicitly listed above shall have pipe support provided at maximum spacing intervals as noted in the applicable code or manufacturer recommendations, whichever is more restrictive.

3.03 ANCHORS

A. Install where indicated on the Drawings and details. Where not specifically indicated, install anchors at ends of principal pipe runs and at intermediate points in pipe runs between expansion loops. Make provisions for preset of anchors as required to accommodate both expansion and contraction of piping.

END OF SECTION

SECTION 31 10 00

CLEARING AND GRUBBING

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Cutting and disposing of trees, brush, windfalls, logs, and other vegetation.
   2. Removing and disposing of roots, stumps, stubs, logs, and other timber.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 REFERENCES

A. Standard Specifications: Unless otherwise specified, Standard Specifications shall refer to the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications.

1.03 MEASUREMENT AND PAYMENT

A. Clearing and Grubbing as described herein, shall be considered incidental to the Work.

B. Tree trunk protection shall be measured and paid for at the Contract Price Bid per each in accordance with Section 201 of the Standard Specifications.

C. Tree Root Pruning shall be measured and paid for at the Contract Price Bid per each in accordance with Section 201 of the Standard Specifications.

D. Tree Removal (6 to 15 Units Diameter) shall be measured and paid for at the Contract unit price Bid per unit diameter designated on ENGINEER's drawings and in accordance with Section 201 of the Standard Specifications.

E. Tree Removal (Over 15 Units Diameter) shall be measured and paid for at the Contract unit price bid per unit diameter designated on ENGINEER's drawings and in accordance with Section 201 of the Standard Specifications.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

3.01 PREPARATION

A. CONTRACTOR shall identify existing plant life to remain and shall tag accordingly.

3.02 PROTECTION

A. CONTRACTOR shall protect from damage utilities and structures that are to remain.

B. CONTRACTOR shall protect trees, plant growth, and features designated to remain as final landscaping.

C. See Division 01 for protection of survey monumentation.

D. Repair or replacement of existing plant material damaged by CONTRACTOR shall meet the requirements of Article 201.07 of the Standard Specifications and shall be at the CONTRACTOR's expense.

E. CONTRACTOR shall perform root and tree pruning in accordance with Article 201.06 of the Standard Specifications.

3.03 CLEARING AND GRUBBING

A. Clearing and grubbing shall consist of cutting and disposing of trees, brush, windfalls, logs, and other vegetation, and the removing and disposing of roots, stumps, stubs, grubs, logs, and other timber from within the clearing limits as defined on the Drawings, designated to be removed on the Drawings or in the Specifications, or fall within the excavation, embankment, or improved areas of the site.

B. All roots and stumps shall be removed to a depth of not less than 12 inches below the original ground surface in embankment areas. In cut areas, such material shall be removed to a depth of not less than 12 inches below the subgrade.

C. Disposal by burning or burying clearing and grubbing items within the project limits is not allowed.

3.04 TREE PROTECTION

A. Trees shall be protected when construction activities affect the root zones and limbs.

B. Minimize storage and use of heavy equipment and materials within Critical Root Zone (CRZ), which is considered 1 to 1.5 times the diameter (in) at breast height of tree. For example, a 10-inch-diameter tree would require a 10- to 15-foot diameter of protection.

C. Any exposed fine roots shall be kept damp. Any damaged roots above 1-inch diameter shall be cut clean.

D. Tree branches damaged as a result of construction activity shall be cut clean. CONTRACTOR shall make a good faith effort to follow and implement the tree protection plan.

3.05 TREE REMOVAL

A. Tree removal shall consist of cutting, grubbing, removal, and disposal of trees and stumps of a diameter equal to or greater than 6 inches (150 mm) as defined in Section 201 of the Standard Specifications.

B. Trees marked for removal within street and road rights-of-way and in easements shall be removed by CONTRACTOR and properly disposed.

C. It is intended that as many trees as possible be saved during construction. No trees, except those so designated, shall be removed without prior approval of OWNER. CONTRACTOR shall conduct the Work to protect all trees designated to remain. CONTRACTOR shall provide suitable fencing installed at the tree drip line for all trees within the construction area to protect trees from damage and soil compaction by equipment.

D. When removing trees, special care shall be taken to not damage surrounding private property. Costs for tree removal or replacement and construction around trees shall be included in the price bid for the work.

END OF SECTION

SECTION 31 23 00

EXCAVATION, FILL, BACKFILL, AND GRADING

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: Excavating, filling, backfilling, and grading for this work includes, but is not necessarily limited to:
   1. Excavating for roads, utilities, sidewalks, driveways, restoration, and miscellaneous areas.
   2. Furnishing and placing all fill and backfill.
   3. Provide compaction of all fill and backfill.
   4. Furnishing and placing of crushed stone mat below manhole/vault slabs, basement floors, or other structures where required.
   5. Rough and finish grading prior to paving, seeding, etc.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

C. Measurement and Payment:
   1. Common Excavation shall include all excavation specified as herein described, and will be considered incidental to the Work.
   2. All trench excavation, except rock excavation and unsuitable foundation materials as herein described, shall be considered incidental to the cost of the pipe or associated structure being installed and will not be measured for payment.
   3. Removal and Disposal of Unsuitable Material, as herein described, shall be paid for at the unit price per cubic yard. The unsuitable material shall be measured in its original position using the average end area method.
   4. Removal and Disposal of Non-CCDD Material shall be paid for at the unit price per ton. CONTRACTOR shall provide certified landfill receipt to document quantity of Non-CCDD material.
   5. Trench bedding and cover material as herein described shall be considered incidental to the cost of the pipe or associated structure being installed and will not be measured for payment.
   6. Special bedding as herein described shall be measured and paid for per cubic yard at the unit price Bid for Foundation Material. The foundation material shall be measured in place after compaction.
   7. All backfill for manholes, valve vaults, valve boxes, catch basins, and inlets as herein described shall be considered incidental to the cost of the structure being installed and will not be measured for payment.
   8. Trench backfill as herein described underneath or within 5 feet of paved surfaces shall be measured and paid for at the unit price bid per cubic yard.
   9. Exploratory Excavation shall be measured and paid for per each. The Work shall include all labor, materials, and equipment for hydro-excavation and other methods of exploratory excavation.

1.02 REFERENCED STANDARDS

A. Standard Specifications: Unless otherwise indicated, Standard Specifications within this section shall refer to the State of Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications.

B. ASTM C33–Standard Specification for Concrete Aggregates.

C. ASTM D698–Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3 (600 kN-m/m^3)).

D. ASTM D1557–Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft^3 (2,700 kN-m/m^3)).

1.03 SUBMITTALS

A. Submit sources and gradations for materials proposed for use as compacted fill, utility trench backfill, trench bedding and cover material, crushed stone mat, and granular cushion.

B. Submit samples of materials proposed for use in Paragraph 1.03.A to a soils testing laboratory for analysis of its suitability and for recommendations on moisture content during compaction, compaction methods, or other appropriate information.

C. Submit sufficient samples of each different type or classification of soil to obtain representative values.

1.04 JOB CONDITIONS

A. The elevations shown for existing work and ground are reasonably correct, but are not guaranteed to be absolutely accurate. No extras will be allowed because of variations between drawings and actual grades.

B. Soil borings were made and the soils information is included in an appendix to these Specifications. The information contained is not guaranteed to be indicative of conditions to be encountered during construction. It is CONTRACTOR's responsibility to make its own investigations to determine physical conditions at the site, which may affect the work.

PART 2–PRODUCTS

2.01 COMPACTED FILL

A. All fill and backfill material designated to be compacted fill shall be granular with no stones larger than 4 inches and shall be reasonably well-graded throughout the particle size range. A minimum 65% of the material shall pass the 3/4-inch sieve, and the material shall be capable of being compaction tested in accordance with ASTM D1557. Of that portion of the material passing the No. 4 sieve, not more than 25% shall pass the No. 200 sieve, and material shall have less than 5% clay content. When placing fill during wet weather or in wet areas, this requirement shall be modified to not more than 5% passing the No. 200 sieve. Adequately dewatered areas are not defined as wet areas.

B. Native material may be used as compacted fill if it meets the above specification. CONTRACTOR shall determine whether native material meets the above specification. CONTRACTOR shall provide all needed fill material whether from on-site or off-site at no additional cost to OWNER.

2.02 CRUSHED STONE MAT

A. Crushed stone mat below manholes, vault slabs and basement floors shall be 3/4-inch virgin crushed limestone and shall meet all requirements of Section 351 of the Standard Specifications.

2.03 GRANULAR CUSHION

A. Granular cushion beneath floor slabs-on-grade shall meet requirements of Illinois DOT Article 351, gradation CA6.

2.04 EMBANKMENT FILL

A. Embankment fill shall contain no stumps, brush, rubbish, or other perishable material. The top 12 inches of the earth embankment shall be earthy material free from large stones.

2.05 CLAY FILL

A. Clay fill shall contain at least 25% clay minerals (material finer than 0.002 mm).

2.06 FLOWABLE FILL

A. Flowable fill shall be a self-compacting, self-leveling, material consisting of a mixture of fine aggregate and filler (as needed), water, and cementitious materials (Portland cement, fly ash, granulated blast furnace slag) that is in a flowable state at the time of placement meeting the requirements of the National Ready Mixed Concrete Association Guide Specification for Controlled Low Strength Materials (CLSM). The flowable fill shall be proportioned by the ready mixed concrete supplier on the basis of field experience and/or laboratory trial mixtures to produce a cohesive and nonsegregating mixture which meets the minimum requirements of the Standard Specifications.

B. CONTRACTOR shall submit the following information well in advance of fill placement to avoid any delay in construction:
   1. Gradation of fine aggregate.
   2. Design mix.
   3. Previous test results with 7- and 28-day compressive strengths.
   4. Certified mill test results for cement identifying brand, type, and chemistry of cement to be used.
   5. Brand, type, principle ingredient, and amount of each admixture if used.

2.07 TRENCH BEDDING MATERIAL

A. Bedding material shall be hard and durable and shall be made by crushing sound virgin limestone. Bedding material shall conform to the requirements of ASTM C33 and shall

conform to gradations shown in the Standard Specifications. No native soil shall be used for bedding material.

B. Concrete and other rigid pipe shall be bedded with CA-7 (virgin crushed limestone only) in accordance with the Village of Winnetka Standard Details.

C. Ductile and cast iron pipe shall be bedded with CA-6 in accordance Village of Winnetka Standard Details.

D. PVC pipe and related appurtenances shall be bedded with CA-7 in accordance with Village of Winnetka details.

E. Bedding material for copper water services shall conform to FA-1, FA-2, or FA-3 meeting the requirements of the Standard Specifications**.**

2.08 TRENCH COVER MATERIAL

A. Material which is to be placed from the bedding material to 1 foot above the top of the pipe shall be termed cover material. All trenches shall be backfilled by hand to 1 foot above the top of the pipe with cover material. Cover material shall be deposited in the trench for its full width on each side of the pipe, fittings and appurtenances simultaneously in 6-inch layers and shall be compacted using hand tamping bars and/or mechanical tampers. Use special care in placing cover material to avoid injury to or movement of the pipe. Cover material shall be gradation CA-7 (virgin crushed limestone only) meeting the requirements of the Standard Specifications. Cover material for water services shall be gradation FA-1, FA-2, or FA-3 meeting the requirements of the Standard Specifications.

B. Native trench materials may be used for cover material if they substantially conform to the above gradation specifications and a suitable credit is extended to OWNER.

C. All bedding materials may be substituted for cover material when requested by CONTRACTOR except where polyethylene encasement is used. In such case, only those bedding materials specifically noted for polyethylene encasement may be used.

2.09 TRENCH BACKFILL MATERIAL

A. Backfill shall be that material placed between the top of cover material up to subgrade for placement of restoration materials. Backfill for storm inlets shall be bedding material.

B. When the type of backfill material is not otherwise specified or shown on the Drawings, CONTRACTOR may backfill with the excavated material, provided that such material consists of loam clay, sand, or gravel.

C. All backfill material shall exceed a temperature of 35°F and be free from frost, cinders, ashes, refuse, vegetable or organic matter, boulders, rocks, stone, or frozen lumps. From 1 foot above the top of the pipe to the trench subgrade, well-graded material containing stones up to 8 inches in their greatest dimension may be used, unless otherwise specified. Care should be taken in backfilling so as not to damage the installed pipe.

D. In refilling the trench, if there is not sufficient material excavated therefrom suitable for refilling, CONTRACTOR shall, without extra compensation, furnish the deficiency. Where indicated on the Drawings, fill shall be provided over projecting conduits. Such fill shall be

free of large boulders, and the top 6 inches shall be of suitable material to fit the adjoining ground.

E. When under or within 5 feet of paved surfaces, backfill material shall be virgin crushed limestone. Sufficient fine material shall be present to fill all the voids in the coarse material. No stones over 3 inches or clay lumps shall be present. Unless otherwise allowed by ENGINEER, granular backfill shall be CA-7 meeting the requirements of the Standard Specifications.

PART 3–EXECUTION

3.01 GENERAL

A. Prior to all excavating, CONTRACTOR shall become thoroughly familiar with the site and site conditions.

3.02 PROTECTION

A. CONTRACTOR shall provide all necessary sheeting, shoring, or other soil retention systems including all labor, material, equipment, and tools required, or as necessary to maintain the excavation in a condition to provide safe working conditions, to permit the safe and efficient installation of all items of Contract work, and to protect adjacent property. CONTRACTOR shall be held liable for any damage which may result to property from excavation or construction operations. Sheeting, shoring, and other soil retainage systems shall be withdrawn or removed in a manner so as to prevent subsequent settlement of structures, utilities, and other improvements.

B. Design of sheet piling and other soil retaining systems shall be the sole responsibility of CONTRACTOR. Where such systems are shown on the Drawings, no parameters such as embedment depth, section profile, presence or lack of whalers, etc., nor system type or suitability shall be inferred. CONTRACTOR is responsible for designing and providing a fully functional system compatible with construction and site requirements.

C. Nothing in this specification shall be deemed to allow the use of protective systems less effective than those required by the Occupational Safety and Health Administration (OSHA) and other applicable code requirements.

3.03 FINISH ELEVATIONS AND LINES

A. CONTRACTOR is responsible for establishing finish elevations and lines.

B. If existing property stakes, not within the limits of the trench or street slope limits, are removed or damaged by CONTRACTOR, CONTRACTOR shall bear the cost of replacement. Replacement shall be made by a legal survey performed by a licensed Land Surveyor hired by OWNER. Cost for survey shall be deducted from the Contract Price.

3.04 COMMON EXCAVATION

A. After the site has been cleared and stripped, the site shall be cut and filled to the indicated subgrade as shown or specified.

B. All excavated material that does not meet the specification for compacted fill or embankment fill or meets the specification but is not required for backfill or fill shall be classified as excess material and shall be removed from the site and disposed of at CONTRACTOR's expense.

C. CONTRACTOR shall place the excess material on the site in locations as designated by OWNER. The hauling cost shall be at CONTRACTOR's expense unless otherwise specified.

D. All material other than suitable bearing soil or bedrock shall be removed from under concrete to be poured on ground.

E. Excavation for all footings, foundation walls, pits, etc., shall be large enough to provide adequate clearance for the proper execution for the work within them.

F. Excavations scheduled to extend below groundwater shall not be started until the area has been dewatered. See Section 31 23 19–Dewatering.

G. No footings or slabs shall bear on the top 2 feet of existing soil. Where planned subgrade is within 2 feet of existing grade, remove soils to 2 feet below existing grade and backfill with compacted fill up to subgrade elevation.

H. CONTRACTOR shall backfill and compact all overexcavated areas.

I. All street excavation shall be performed as called for in Section 202 of the Standard Specifications and as herein modified.

J. The following items of Work shall be included in common excavation:
   1. The excavation to subgrade elevations as detailed in the Drawings including road bed areas, terraces, sidewalks, bike paths, driveways, and other miscellaneous surface improvements.
   2. Removal (and stockpiling, if the use of salvaged topsoil is required) of topsoil from all cut areas and fill areas within a 1:1 slope of finished street, sidewalks, bike paths, driveways, and other miscellaneous surface improvements.
   3. The preparation, grading, compaction, and proof-rolling of subgrade areas for roadbed, sidewalks, bike paths, driveways, and other miscellaneous surface improvements to the elevations detailed on the Drawings.
   4. Excavation and grading required to realign and/or create ditch lines and drainage ways to route drainage to or from storm facilities as shown on the Drawings, or as necessary to maintain positive drainage.
   5. Removal of temporary backfill placed in new utility trenches above the subgrade.
   6. The removal and disposal of all undesirable and surplus materials.

K. Common excavation may be completed as part of utility construction prior to initiating general street excavation activities.

L. All subgrade areas in streets and parking lots, including utility trench restoration areas, shall be proof-rolled with a heavily loaded triaxle dump truck or other similar equipment requested by ENGINEER prior to the placement of any fill materials or base course. ENGINEER must be present during proof-rolling to review the Work necessary for the stabilization of any unstable areas identified.

M. Saw cuts shall be made in existing pavement, driveways, curb and gutter, and sidewalks to allow restoration to neat straight lines. Saw cuts damaged during construction shall be recut prior to beginning restoration.

N. CONTRACTOR shall salvage suitable materials from utility and street construction activities to provide fill for street construction. Where sufficient quantities of materials suitable for street construction are not available from areas of the site, CONTRACTOR shall perform borrow excavation to make up the deficit in accordance with Section 204 of the Standard Specifications.

3.05 UTILITY TRENCH EXCAVATIONS

A. Caution In Excavation; CONTRACTOR shall proceed with caution in the excavation and preparation of the trench so that the exact location of underground structures may be determined and shall be held responsible for the repair of such structures when broken or otherwise damaged because of carelessness on its part.

B. Subsurface Exploration: When determined that it is necessary to explore and excavate to determine the location of existing underground facilities, CONTRACTOR shall make explorations and excavations for such purposes. If CONTRACTOR is asked to perform additional Work in making the explorations and excavations, extra compensation will be allowed as specified In the Contract.

C. The trench shall be dug so that the utilities can be laid to the alignment and depth specified. Unless otherwise allowed by ENGINEER, trenches shall not be excavated more than 100 feet in advance of pipe laying. Common excavation shall include all excavation except rock. Included in common excavation shall be removal of street paving of all types, existing structures, existing improvements and trees smaller than 5 inches in diameter measured 4 feet above the ground, all as necessary to complete the pipe installation.

D. The trench shall be finished to the depth necessary to provide a uniform and continuous bearing and support for the pipe on the bedding material provided at every point between bell holes. Any part of the bottom of trench excavated below the specified grade shall be corrected with bedding material, thoroughly compacted in place. The bedding shall be shaped and finished with hand tools to fit the bottom quadrant to the pipe.

E. If unstable soil conditions are encountered at subgrade, CONTRACTOR shall replace the unstable soil with special bedding. CONTRACTOR shall be allowed extra compensation for the special bedding, unless the unstable soil conditions are caused by CONTRACTOR's failure to adequately dewater the trench, in which case CONTRACTOR shall bear the entire cost.

F. All excavated material shall be piled in a manner that will not endanger the Work. Stockpiles not for immediate backfilling shall have silt fences placed around their perimeter for erosion control. The Work shall be conducted in such a manner that pedestrian and motor traffic is not unnecessarily disrupted. Fire hydrants, valve boxes and manholes shall be left unobstructed. Gutters shall be kept clear or other satisfactory provisions made for street drainage, and natural water courses shall not be obstructed.

G. Excavated material designated by ENGINEER as being undesirable for backfilling and all surplus excavated material shall be immediately removed as excavation progresses. All such material shall be disposed of in an environmentally safe manner in accordance with

local, state, and federal regulations. No such materials shall be disposed of in wetlands, floodplains, or other environmentally sensitive areas. Disposal sites are also subject to approval of OWNER. All undesirable and surplus material disposed of must be leveled off and graded to rough elevations as determined by OWNER. Appropriate erosion control measures shall be provided and maintained at disposal sites until disposal is complete and the disposal site is permanently stabilized.

H. CONTRACTOR shall remove bituminous pavement and road surface as a part of the trench excavation. The width of pavement removed shall be the minimum possible, and acceptable, for convenient and safe installation of utilities and appurtenances.

I. All bituminous pavement shall be cut on neat, straight lines and shall not be damaged beyond the limits of the trench.

J. Where it is necessary to trench through concrete pavement, a strip shall be sawed and removed in such a manner as not to disturb the remainder of the pavement. Paving and undermining of existing concrete pavement shall be prevented by CONTRACTOR. If CONTRACTOR unnecessarily removes or damages pavement or surfaces beyond limits acceptable to ENGINEER, such pavement and surfaces shall be replaced or repaired at the expense of CONTRACTOR.

K. All trees, shrubs, and improved areas outside the excavation shall be protected from damage.

L. Pipe shall be placed only on dry foundations.

M. Excavation shall include all necessary incidental work such as tunneling, sheet piling, shoring, underpinning, pumping, bailing, transportation, and all fill and backfilling.

N. CONTRACTOR shall excavate whatever materials, are encountered as required to place at the elevations shown, all pipe, manholes, and other work as required to complete the project.

O. The excavation at the crossing of all underground utility services in place shall be as narrow as practicable. All underground services shall be protected from damage and maintained in service at their original location and grade during the process of the work. Any damage to underground services shall be replaced or repaired at no cost to OWNER or to the owner of the service. The present underground services are located in accordance with available data. Encountering these services at a different location or encountering services not shown shall not release CONTRACTOR from the above-stated conditions.

P. Any water, drainage, gas, sewer, or electric lines encountered in the excavation that are not to be disturbed shall be properly underpinned and supported. Any service connections encountered that are to be removed shall be cut off at limits of the excavation and capped in accordance within the requirements of or permits governing such removals. Any permits required for this work will be obtained by OWNER upon request of CONTRACTOR.

Q. CONTRACTOR shall be responsible for determining and providing the minimum width necessary to provide a safe trench in accordance with current OSHA standards and all other applicable standards. The top width of trench excavation shall be kept as narrow as is reasonably possible and acceptable to minimize pavement damage. Pay items related to maximum trench widths shall not limit CONTRACTOR’s responsibility to provide safe trench conditions.

R. Width of Trench–Rigid Pipe: The width of trench below the outside top of the pipe shall be as shown in the following table for the sizes listed. A minimum clearance of 8 inches between the outside of the pipe barrel and the trench wall at the pipe spring line shall be maintained to allow for bedding and haunching. If sheeting is used and is going to remain in place, the trench width shall be measured as the clear distance between inside faces of the sheeting. Otherwise, the trench width shall be based on the width between stable trench walls after sheeting is removed.

MAXIMUM WIDTH OF TRENCH BELOW TOP OF PIPE

Nominal Pipe Diameter (Inches)	Trench Width (Inches)
4	30
6	30
8	36
10	36
12	36
15	36
18 and larger	Pipe O.D. Plus 18 Inches on Each Side

S. Where the width of trench below the outside top of the pipe barrel cannot be otherwise maintained within the limits shown above, CONTRACTOR, at its own expense, shall furnish an adequate pipe installation for the actual trench width which will meet design conditions. This may be accomplished by furnishing higher class bedding, a stronger pipe, concrete cradle, cap or envelope or by driving sheeting prior to excavation to subgrade. Removal of sheeting below the top of the pipe, if allowed by ENGINEER, shall be gradual during backfilling.

T. If the maximum trench width is exceeded for any reason other than by request of ENGINEER, the concrete cradle, cap, sheeting, bedding or the stronger pipe shall be placed by CONTRACTOR at its own expense. Where the maximum trench width is exceeded at the written request of ENGINEER, the concrete cradle, cap, sheeting, bedding or stronger pipe will be paid for on the basis of the price bid.

U. Width of Trench–HDPE, PVC, and Ductile Iron Pipe: The trench width for flexible pipe shall be minimum three times the pipe outside diameter or the maximum trench width specified for rigid pipe, whichever is greater. A minimum clearance of 8 inches between the outside of the pipe barrel and the trench wall at the pipe spring line shall be maintained to allow for bedding and haunching.

V. Special bedding shall consist of stone material and filter fabric as described herein. Where the bottom of the trench at subgrade is found to be unstable or of unsuitable material, which should be removed, CONTRACTOR shall excavate and remove such unstable or unsuitable material to the trench width and to a depth of 2 feet. The excavated area shall be lined with filter fabric, Mirafi 140 N, US Fabrics US 120NW, Propex Geotex 401, or equal, and backfilled with bedding material in maximum 12-inch layers. At subgrade the filter fabric shall be wrapped over the special bedding with an 18-inch overlap. Bedding material shall then be

placed over the special bedding to support the piping. See Dewatering and Excavation to Subgrade sections for additional conditions.

W. Open-cut trenches shall be sheeted and braced as required by any governing federal regulations including OSHA, state laws, and municipal ordinances; and as may be necessary to protect life, property, improvements or the Work. Underground or aboveground improvements to be left in place shall be protected and, if damaged, shall be repaired or replaced at the expense of CONTRACTOR.

X. Sheeting and bracing which is to be left in place must be removed for a distance of 4 feet below the present or proposed final grade of the street, road, or land, whichever is lower. Trench bracing, except that which shall be left in place, may be removed after backfilling has been completed or has been brought up to such an elevation as to permit its safe removal.

Y. Portable Trench Box: Whenever a portable trench box or shield is used, special precautions shall be taken so as not to pull already jointed pipe apart or leave voids around the pipe wall. Whenever possible, the bottom edge of the box shall be kept at a level approximately even with the top of pipe. Cover material shall be placed to at least the top of pipe before moving the box ahead.

Z. All trenches shall be backfilled using specified material so that excessive lengths of trench are not left open. In general, the backfilling operation shall proceed so that no more than 100 feet of trench is open behind the pipe laying operation.

AA. Backfill shall be left below the original surface to allow for placement of restoration materials including pavement, base course, concrete, topsoil, sod, plus any pavement replacement specified in accordance with the Asphaltic Paving section herein. When settlement occurs, CONTRACTOR shall restore the surface improvements at its expense to maintain the finished surface.

3.06 PREPARATION OF SUBGRADE

A. After the site has been cleared, stripped, and excavated to subgrade, thoroughly compact subgrade to the requirements specified for compacted fill below. Scarify and moisture condition the subgrade as recommended by the Geotechnical Engineer.

B. Remove all ruts, hummocks, and other uneven surfaces by surface grading prior to placement of fill.

C. ENGINEER may request the excavation of unsuitable materials in areas of unstable subgrade. The excavation of such materials, except in areas where CONTRACTOR has completed utility construction or placed street fill, shall be measured by ENGINEER for payment.

D. The excavation and replacement of unstable utility trench backfill and/or street fill placed by CONTRACTOR shall be at CONTRACTOR’s expense.

E. Base course placed on unstable foundation shall be removed and replaced at CONTRACTOR’s cost following excavation of the affected area.

3.07 COMPACTED FILL AND BACKFILL

A. All fill and backfill, except as otherwise specified, shall be compacted fill placed to within 4 inches of the bottom of the topsoil or to the bottom of the structure or other improvement.

B. Unless otherwise noted, structures with a top slab shall not be backfilled until the slab is in place and has reached its specified 28-day strength.

C. In fill areas above existing grade around structures, compacted fill shall be placed within a minimum of 10 feet from the structure.

D. No fill shall be placed under water or over unsuitable subgrade conditions.

E. All fill and backfill, except embankment fill and clay fill, shall be compacted as follows:
   1. Class 1 Compaction: This class of compaction shall apply to all fill areas under buildings, structures, piping, bituminous roadway and parking areas, curb and gutter, and backfill within 10 feet of structure walls. All compacted material shall be placed in uniform layers not exceeding 8 inches in loose thickness prior to compaction. Each layer shall be uniformly compacted to a dry density at least 95% of the maximum dry density as determined by a laboratory compaction test at the optimum moisture content (ASTM Test Designation D1557). Compaction shall be obtained by compaction equipment appropriate for the conditions.
   2. Class 2 Compaction: This class of compaction shall be used in excavated areas beyond 10 feet of structures without any piping or adjacent foundations. Material for backfill shall be granular material as specified above. The material shall be deposited, spread, and leveled in layers generally not exceeding 12 inches in thickness before compaction. Each layer of the fill shall be compacted to at least 90% of the maximum dry density (testing same as Class 1). Compaction shall be obtained by compaction equipment appropriate for the conditions.

F. No frozen material shall be placed nor shall any material be placed on frozen ground.

G. Four inches of clay fill shall be placed and compacted to at least a firm consistency in areas to be seeded or sodded prior to placement of topsoil.

3.08 EMBANKMENT FILL

A. Embankment fill may be placed in fill areas to be seeded or sodded if no piping exists in the fill and the areas are at least 10 feet from any structure.

B. Embankment fill shall be deposited, spread, and leveled in layers generally not exceeding 12 inches in thickness before compaction. Each layer shall be compacted to the degree that no further appreciable consolidation is evidenced under the action of the compaction equipment. The required compaction shall be obtained for each layer before any material for a succeeding layer is placed thereon. Compaction shall be obtained using the hauling and leveling equipment, and in addition, tamping rollers, pneumatic-tired rollers, vibratory rollers, or other types of equipment required to produce the desired results.

3.09 CONCRETE FILL

A. In areas where there is inadequate room for compaction equipment and in other areas as shown or specified, flowable fill shall be used as fill material.

B. Where concrete fill (flowable fill) is used as backfill, the initial lift used to cover the subgrade shall not exceed 2 feet in total height and be cured for 4 days prior to subsequent lifts. Remaining lifts shall be placed in maximum heights of 2 feet and cured for 24 hours prior to placement of the next lift.

3.10 PLACING CRUSHED STONE AND GEOTEXTILE FABRIC

A. The same day that the subgrade is exposed, place geotextile fabric on subgrade, and place 4 inches of crushed stone mat below manholes and vault slabs. Compact in place.

B. Geotechnical fabric shall extend up the side edge of the stone mat and extend across the top of the stone to a minimum of 12 inches past the edge of base slab.

3.11 PIPE BEDDING AND COVER

A. Immediately prior to placing the pipe, the trench bottom shall be shaped by hand to fit the entire bottom quadrant of the pipe. If pipe is of the bell and spigot type; bell holes shall be provided to prevent the bell from supporting the backfill load. Bell holes shall be large enough to permit proper making of the joint, but not larger than necessary to make the joint. All adjustments to line and grade must be done by scraping away or filling in bedding material under the body of the pipe. Any fill used must be bedding material. If necessary to obtain uniform contact of the pipe with the subgrade, a template shall be used to shape the bedding material. All pipe shall be placed on bedding material at least 4 inches thick. Bedding material shall then be placed and tamped into place up alongside the pipe in maximum 6-inch layers shovel slicing the bedding material under the haunches to provide firm contact with the pipe. CONTRACTOR shall perform all necessary excavation and shall furnish all necessary material to provide this bedding.

B. Trenches shall be kept water-free and dry during bedding, laying, and jointing. CONTRACTOR shall provide, operate, and maintain all pumps or other equipment necessary to drain and keep all excavation pits and trenches and the entire subgrade area free from water under any and all circumstances that may arise.

3.12 TRENCH BACKFILL CONSOLIDATION

A. All trenches shall be consolidated as specified in this section for the entire depth and width of the trench.

B. Consolidation shall be achieved by use of smooth surface vibratory compactors or backhoe operated hydraulic compactors for granular materials and rotating sheepsfoot type mechanisms for loam/clay soils. The lift height shall not exceed 8 inches for walk behind, hand operated, vibratory compactors and sheepsfoot. Lift height shall not exceed 24 inches for self-propelled vibratory drum or backhoe operated hydraulic compactors. Smaller lift heights shall be provided as necessary to achieve the degree of compaction specified.

C. Unless specified otherwise, backfill material beneath paved areas or future paved areas and within 5 feet of paved areas or future paved areas shall be consolidated as follows: Within 3 feet of the surface 95% of maximum dry density, below 3 feet from the surface to 1 foot above the pipe 90% of maximum dry density, as determined by the modified Proctor Test (ASTM D1557).

D. Unless otherwise specified, backfill material placed in all other areas shall be compacted to the point where no additional consolidation can be observed from the compaction and backfill equipment being used.

E. Backfill material not meeting the compaction specification shall be recompacted by CONTRACTOR at no cost to OWNER. Cost for additional testing on recompacted material shall be at CONTRACTOR's expense.

3.13 GRADING

A. CONTRACTOR shall perform all rough and finish grading required to attain the elevations shown on the Drawings.

B. Grading Tolerances:
   1. Rough Grade: Buildings, parking areas, and sidewalks–±0.1 feet.
   2. Finish Grade: Granular cushion or crushed stone mat under concrete slabs–±0.03 feet.
   3. Lawn areas away from buildings, parking areas, and sidewalks–±0.25 feet.

3.14 MAINTENANCE OF SURFACE

A. CONTRACTOR shall maintain all backfilling, resurfacing, repaving, and other surface improvements constructed under this Contract. CONTRACTOR shall, upon proper notice from OWNER, make all repairs in surfaces of trenches and excavations. All expenses incurred by OWNER and/or CONTRACTOR in making repairs and all expenses in maintaining trench and excavation surfaces shall be at the expense of CONTRACTOR regardless of the material used in backfilling trench excavations. OWNER reserves the right to make all emergency repairs necessary to make safe all streets and walks at the expense of CONTRACTOR regardless of the material used in backfilling trench excavations. A maintenance guarantee fund, if specified, will be withheld from the final amount due CONTRACTOR for a period of 6 months, after acceptance of the Work, to provide such maintenance.

B. CONTRACTOR shall be responsible for controlling dust dispersion during utility and street construction. Remedial actions required as a result of inadequate dust control shall be CONTRACTOR's responsibility. To control dust, CONTRACTOR shall apply calcium chloride or ammonium lignin sulfonate in 12 to 14% solution or other dust control palliative acceptable to OWNER. Prior to application of dust palliative, the street shall be graded smooth.

3.15 COMPACTION TESTING

A. Compaction tests shall be done by CONTRACTOR. Location and frequency of the tests shall be as recommended by OWNER or ENGINEER and paid for by CONTRACTOR.

3.16 NON-SPECIAL WASTE DISPOSAL

A. If any solid waste fill materials are encountered, they shall be excavated and removed to a licensed sanitary landfill. Solid waste fill material is defined as any construction or demolition debris, household refuse, glass, metal, plastic, or similar material not native to the site, but having been placed on-site during past filling operations and mixed with soil. Allowance as specified shall apply.

3.17 POTENTIALLY HAZARDOUS WASTE

A. If CONTRACTOR encounters during excavation or trenching activities any potentially hazardous waste as defined in this section, and the materials are within the limits of the site excavation or trenching work, the materials shall be handled as specified in this section. Potentially hazardous waste is defined as any drums, containerized waste, or organic liquid waste or surrounding impacted material. Such materials have not been found during investigations performed to date but could potentially be encountered.

B. Should potentially hazardous waste be encountered, excavation activities in that portion of the site shall be placed on standby pending removal of the material, receipt of test results, and determination by the IEPA and OWNER on whether work may proceed. It is anticipated that this standby time will be approximately 48 hours per occurrence, exclusive of weekends and holidays.

C. Potentially hazardous waste defined above shall be carefully excavated, stockpiled, and tested to determine if they exhibit the characteristics of a hazardous waste as defined by the Title 35 Illinois Administrative Code, Parts 700 - 739.. Such materials shall be handled according to applicable IEPA, USEPA, and OSHA regulations and shall be stockpiled in a “Temporary Excavated Material Storage Area” as specified in Division 01. Stockpiling shall meet the requirements of NR 700.

3.18 CLEAN CONSTRUCTION OR DEMOLITION DEBRIS

A. CONTRACTOR shall comply with 35 III. Adm. Code 1100 when disposing of clean construction or demolition debris (CCDD) or uncontaminated soil at a CCDD or uncontaminated soil fill operation.

B. None of the Drawings, Specifications, or geotechnical reports shall be considered a guarantee that excavated material shall meet the requirements of 35 III. Adm. Code 1100, and CONTRACTOR shall be responsible for satisfactory removal and disposal of all material as specified herein. No additional environmental testing of the existing on-site material may be performed without the written permission of OWNER, CONTRACTOR shall be required to properly and legally dispose of all material from the project site, regardless of its suitability for disposal in a CCDD facility, at CONTRACTOR’S expense, without any additional payment for testing, hauling, and disposal as specified below.

C. CONTRACTOR shall consult at least three CCDD facilities for confirmation of acceptance of material from this project prior to submitting a bid for this project. CONTRACTOR shall base its bid on hauling all CCDD generated by this project and shall provide the name, location, and contact information of intended facilities to OWNER upon award of Contract to CONTRACTOR. No additional compensation will be allowed for hauling to any other facilities, for any reason, unless none of the indicated facilities will accept the material. In the case where none of CONTRACTOR's indicated facilities will accept the material, CONTRACTOR shall attempt to locate an alternate facility, unless the material is classified as unsuitable for disposal in a CCDD facility, in which case it shall be hauled to a landfill and paid for as specified below. Any costs associated with additional sampling, analysis, and/or reporting to meet the acceptance requirements of an intended facility shall be borne by the bidding CONTRACTOR and included within CONTRACTOR's bid. By submitting a bid, CONTRACTOR agrees that the intended facilities will accept the material and shall be used for disposal of all CCDD from this project, unless otherwise determined to be non-hazardous

special waste as specified below. In the event that CONTRACTOR needs to alter the CCDD facility used for placement of excavated material, CONTRACTOR shall notify OWNER no less than three days in advance of the planned alteration. In no event shall material be hauled to an alternate facility without the written permission of OWNER.

D. Construction Requirements:
   1. CONTRACTOR shall be responsible for satisfactory removal and disposal of all waste material, asphalt, concrete, stone, dirt, and debris generated or discovered in the course of the work. Removal and disposal of excavation items being disposed of at a CCDD facility shall meet the requirement of 35 III. Adm. Code 1100. This work shall be incidental and shall not be paid for separately, with the exception of the NON-CCDD MATERIAL DISPOSAL as specified below.
   2. If material is rejected at the CCDD facility, it shall be returned to the project site and quarantined for further evaluation. No additional compensation shall be allowed for returning a reject load back to the project site or for any other additional hauling, loading, unloading, etc. as may be required. Should it be determined that the material is not suitable for disposal in a CCDD facility, CONTRACTOR shall be responsible for properly disposing of the material at an acceptable landfill and providing OWNER with all the proper paperwork to document the material disposal with the IEPA. This work shall be paid for as specified below.
   3. All work to satisfy these requirements shall be the responsibility of CONTRACTOR. All costs associated with meeting these requirements shall be included in CONTRACTOR's bid for installation of the associated pipe or structure, These costs shall include, but are not limited to, all required testing, lab analysis, and certification by a licensed professional engineer (PE) or licensed professional geologist (PG), if required, in addition to the cost of additional hauling, dump fees, etc.
   4. CONTRACTOR shall INCLUDE in its Bid the cost of removing, hauling, and disposing of in a licensed landfill 20 tons of excavated solid waste fill material not suitable for disposal in a CCDD facility. The cost shall include excavation, any testing required by the landfill, transportation, additional safety considerations, and disposal fees. Payment for non-CCDD material excavation and disposal will be adjusted, add or deduct, based upon the actual amount of fill material excavation and disposal (more or less than 20 tons) at the unit price for REMOVAL AND DISPOSAL OF NON-CCDD MATERIAL.
   5. Landfill tonnage shall be based on weight tickets. Copies of all weight tickets for landfilled material shall be provided to OWNER for documentation purposed to calculate actual quantities. Weight tickets shall be duly and accurately completed. Weight tickets with incomplete or illegible information shall not be acceptable.

END OF SECTION

SECTION 31 23 16.26

ROCK REMOVAL

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Removal of rock during excavation for structures and roads.
   2. Removal of rock during excavation for utility trenches.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

C. Payment: Rock Excavation shall be paid for at the Contract Unit Price Bid per cubic yard, in accordance with Section 202 of the Standard Specifications.

D. Measurement:
   1. In calculating the volume of rock excavation for dimensioned structures and roads the amount paid for rock excavation will be limited to an area extending 1 foot beyond the perimeter of the bottom slab on all sides and a height equal to the average depth from the surface of the rock to 6 inches below the bottom of the floor slab or as shown on the Drawings. For circular structures, the amount paid for rock excavation will not exceed the volume of a cylinder of diameter equal to the external diameter of the structure plus 4 feet and height equal to the average depth from the surface of the rock to 6 inches below the bottom of the base slab.
   2. In calculating the volume of excavation in rock for utility trenches the amount allowed will not exceed the volume in a width equal to the specified trench width for the pipe and height equal to the average depth from the surface of the rock to a point 6 inches below the outside bottom of the pipe.
   3. In calculating the length of utility trenches when the length method of measurement is specified, the measured length of trench will be the lengths of pipe installed, minus the width of overlapping trenches.
   4. The volume of rock removal shall be measured using average end area method.
   5. When rock is encountered, it shall be stripped of earth and ENGINEER notified and given proper time to measure the same before removal. Rock Removal must be measured in its original position. Any rock which has been removed prior to measurement by ENGINEER will not be classified as rock excavation.
   6. The above paragraphs list the methodology for determining the payable quantity of rock removed. It is CONTRACTOR's responsibility to remove the quantity of rock needed to result in a trench that meets OSHA's requirements.

1.02 DEFINITIONS

A. Rock excavation for structures, roads, and utility trenches shall include all hard, solid rock ledges, bedded deposits and unstratified masses, and all conglomerate deposits or any other material so firmly cemented that it is not practical to excavate and remove same with a 270-net flywheel horsepower tractor (Caterpillar D-8 with power shift, or equal) equipped with dozer blade and hydraulic-mounted parallelogram ripper; 225-net flywheel horsepower

hydraulic backhoe, or equal, except after continuous drilling and blasting. No soft or disintegrated rock which can be removed with a pick; no loose, shaken, or previously broken rock; and no rock which may fall into the excavation from outside the limits of excavation will be classified as rock excavation. Rock excavation shall also include all rock boulders necessary to be removed having a volume of one cubic yard or more.

1.03 QUALITY ASSURANCE

A. OWNER has determined that explosives may not be employed in rock removal.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

3.01 ROCK REMOVAL

A. When rock is encountered, it shall be stripped of earth and ENGINEER or OWNER's representative notified and given proper time to evaluate same before removal. Any rock removed which has not been measured by ENGINEER or OWNER's representative will not be classified as rock excavation.

B. Disintegrate rock and remove from excavation.

C. Remove rock at excavation bottom to form level bearing surface.

D. The depth of trench in rock shall be 6 inches below the lowest outside bottom of the pipe.

E. Rock excavation for streets shall include removal of rock to subgrade elevations.

F. Rock shall be removed 2 feet below finish grade in areas to receive seed, sod, or trees.

G. Remove shaled layers to provide a sound and unshattered base for foundations.

H. Unauthorized rock removal shall be corrected in accordance with backfilling and compacting requirements of Section 31 23 00–Excavation, Fill, Backfill, and Grading or with concrete fill.

I. All excavated rock shall be classified as undesirable backfill material and shall be disposed of as specified in Section 31 23 00–Excavation, Fill, Backfill, and Grading, unless it is crushed and screened to meet backfill requirements for use on-site.

J. All excavations and trenches in rock shall be backfilled with approved backfill materials furnished by CONTRACTOR. Costs for such materials shall be included in the price bid for rock excavation.

END OF SECTION

SECTION 31 23 19

DEWATERING

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Removal of groundwater to allow belowgrade construction.
   2. Site grading to prevent surface water from entering the excavation.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

C. Payment:
   1. The expense for making all extra excavations necessary to prevent water from interfering with the proper construction of the work and for forming all dams or diversions, digging of sumps or pump wells, bailing, and installation and pumping of wells shall be borne by CONTRACTOR.
   2. The cost for removal of groundwater and surface water shall be included in the prices bid for the work. No separate payment will be made for dewatering whether accomplished by use of sumps and pumps, well point systems, deep wells, or any other method.
   3. Any permits necessary for the dewatering operations shall be obtained and paid for by CONTRACTOR.

1.02 REFERENCES

A. Illinois Urban Manual.

B. See Division 01, Section 01 41 00–Regulatory Requirements for permit requirements and water, erosion, and sediment control.

1.03 SYSTEM REQUIREMENTS

A. CONTRACTOR shall, at its own expense, keep the excavation clear of water while structures, mains, and appurtenances are being built, utilities are being installed, and fill and backfill are being compacted. Under no conditions shall the work be laid in or under water. No water shall flow over the work until the joints are complete or the concrete has set.

B. Wherever necessary, CONTRACTOR shall excavate in advance of the completed work, lead the water into sumps or pump wells, and provide erosion control measures to prevent water or sediment damage.

C. CONTRACTOR's dewatering system shall perform so that the soils within the trench will not be destabilized by hydrostatic uplift pressures from adjacent groundwater. If conditions warrant, CONTRACTOR shall furnish and install well point systems or deep wells.

D. Dewatering shall be sufficient to lower the piezometric level to at least 2 feet below the bottom of the excavation. Additional lowering shall be provided as necessary to create a stable subgrade.

E. In areas where rock is encountered, the water level shall be kept at or below top of rock, but at least 6 inches below bottom of concrete. Additional rock shall be removed as needed to provide clearances.

F. The control of groundwater shall be such that softening or heaving of the bottom of excavations or formation of “quick” conditions or “boils” shall be prevented.

G. Dewatering systems shall be designed and operated so as to prevent the migration or removal of soils.

1.04 QUALITY ASSURANCE

A. All dewatering shall be done in accordance with Illinois Urban Manual Code 813 and with all other applicable federal, state, and local code requirements.

B. In particular, groundwater observation wells shall be provided and subsequently abandoned in accordance with the Illinois Urban Manual Code 996. CONTRACTOR shall complete all observation well construction and abandonment forms as required and shall submit the forms to OWNER within 15 days of construction or abandonment activities.

PART 2–PRODUCTS

NOT APPLICABLE

PART 3–EXECUTION

3.01 DEWATERING

A. Dewatering shall be started, and the water level shall be lowered as specified herein prior to beginning excavation and shall be continued until structure, main, or appurtenance has been completed and fill has been placed and compacted to final grade.

B. CONTRACTOR shall provide all necessary materials and equipment to keep the excavation free from water during construction. CONTRACTOR shall at all times have on hand sufficient pumping equipment and machinery in good working condition for all ordinary emergencies, including power outages, and shall have available at all times competent workers for the operation of the pumping equipment. The dewatering systems shall not be shut down between shifts, on holidays or weekends, or during the work stoppages.

C. CONTRACTOR shall meet all requirements of applicable IEPA permits for construction pit or trench dewatering.

D. The release of groundwater to its static level shall be performed in such a manner as to maintain the undisturbed state of the natural foundation soils, prevent disturbance of compacted fill or backfill, and prevent floatation or movement of all structures and pipelines.

3.02 PROTECTION

A. CONTRACTOR shall take all necessary precautions during the dewatering operation to protect adjacent structures against subsidence, flooding, or other damage. The dewatering system shall be installed and operated so that the groundwater level outside the excavation is not reduced to the extent that would damage or endanger adjacent structures or property. Any such facilities and structures damaged shall be repaired or replaced to the satisfaction of their owner.

B. In areas where continuous operation of dewatering pumps is required, CONTRACTOR shall avoid noise disturbance to nearby residences to the greatest extent possible by using electric-driven pumps, or intake and exhaust silencers or housing to minimize noise from engine-driven generators or engine-driven pumps.

END OF SECTION

SECTION 31 25 00

SLOPE PROTECTION AND EROSION CONTROL

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: Erosion control devices.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 MEASUREMENT AND PAYMENT

A. Inlet Filter shall be measured and paid for at the Contract Unit Price Bid each, in accordance with Section 280 of the Standard Specifications.

B. Perimeter Erosion Barrier shall be measured and paid for at the Contract Unit Price Bid each, in accordance with Section 280 of the Standard Specifications.

C. Erosion Control Blanket shall be included in the cost for seed restoration.

D. Silt Sock shall be measured and paid for at the Contract Unit Price Bid per foot.

1.03 REFERENCES

A. Illinois Urban Manual published by the Natural Resources Conservation Service (NRCS) in Illinois (http://www.nrcs.usda.gov).

B. Standard Specifications: Unless otherwise specified, Standard Specifications shall refer to the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications.

1.04 REGULATORY REQUIREMENTS

A. Land disturbance less than 1 acre. Where land disturbance activities do not exceed 1 acre, CONTRACTOR shall maintain site conditions where erosion and pollution are controlled.

1.05 QUALITY CONTROL

A. Construct and maintain erosion sediment control measures in accordance with the Illinois Urban Manual.

B. Check facilities weekly and after any rainfall event, and make needed repairs within 24 hours.

PART 2–PRODUCTS

2.01 EROSION CONTROL BLANKET

A. Erosion control blankets, stakes, and staples shall be made of biodegradable materials meeting the requirements of Illinois Urban Manual Practice Standard No. 830, Erosion Control Blanket. Erosion control blankets shall not contain plastic netting or anchors.

2.02 EROSION CONTROL BARRIER

A. Use geotextile fabric consisting of either woven or nonwoven polyester, polypropylene, stabilized nylon, polyethylene, or polyvinylidene chloride in accordance with the requirements of the Illinois Urban Manual. Fabric shall have the minimum strength values in the weakest principal direction. Nonwoven fabric may be needle punched, heat bonded, resin bonded, or combination thereof.

B. Furnish geotextile fabric in a wrapping which will protect the fabric from ultraviolet radiation and from abrasion because of shipping and handling. Keep geotextile dry until installed.

2.03 INLET FILTERS

A. Inlet filters shall meet the requirements of Article 1081.15 of the Standard Specifications. Inlets shall be Flexstorm, or approved equal.

2.04 SILT SOCK

A. Silt sock shall be straw wattles or rolled excelsior meeting the requirements of the Illinois Urban Manual.

PART 3–EXECUTION

3.01 GENERAL

A. Install devices before construction activities begin.

B. Proceed carefully with construction adjacent to stream channels to avoid washing, sloughing, or deposition of materials into the stream. If possible, the work area should be diked off and the volume and velocity of water that crosses disturbed areas be reduced by means of planned engineering works (diversion, detention basins, berms).

C. Unless noted on Drawings, do not remove trees and surface vegetation.

D. Expose the smallest practical area of soil at any given time through construction scheduling. Make the duration of such exposure before application of temporary erosion control measures or final revegetation as short as practicable.

3.02 EROSION CONTROL BLANKET INSTALLATION

A. Place erosion mat immediately after seeding or sodding operations have been completed. Before mat placement, remove all material or clods over 1 1/2 inches in diameter and all

organic material or other foreign material which interfere with the mat bearing completely on the soil or sod.

B. Any small stones or clods which prevent contact of the mats with the soil shall be pressed in the soil with a small lawn-type roller or by other effective means. The mat shall have its lateral edge so impressed in the soil as to permit runoff water to flow over it.

C. The matting strips shall be rolled on or laid in direction of flow. Spread mat evenly, smoothly, in a natural position without stretching and with all parts bearing on soil, and place blanket with netting on top. Overlap adjacent strips at least 4 inches. Overlap strip ends at least 10 inches. Make overlaps with the upgrade section on top.

D. Bury upgrade end of each strip of fabric or blanket at least 6 inches in a vertical slot cut in the soil and press soil firmly against the embedded fabric or blanket.

E. Anchor mats in place with vertically driven staples, driven until their tops are flush with the soil. Space staples at 3-foot centers along mat edges and stagger space at 3-foot centers through the center. Place staples at 10-inch centers at end or junction slots.

F. Reseed areas damaged or destroyed during erosion mat placing operations as specified for original seeding.

G. Dispose of surplus excavated materials and all stones, clods, or other foreign material removed in the preparation of the seeded soil or sodded surface before placing mat.

H. Following mat placement, uniformly apply water to the area to moisten seedbed to 2-inch depth and in a manner to avoid erosion.

I. Maintain erosion mat and make satisfactory repairs of damage from erosion, traffic, fires or other causes until work acceptance.

3.03 GEOTEXTILE FABRIC

A. Before placing fabric, grade area smooth and remove stones, organic matter, or other foreign material which would interfere with fabric being completely in contact with soil.

B. Place fabric loosely and lay parallel to direction of water movement. Pinning or stapling is acceptable to hold geotextile in place. Overlap or sew together separate pieces of fabric. Overlap joints a minimum 24 inches in the flow direction. After placement, do not expose fabric more than 48 hours before covering.

C. Cover damaged areas with a patch of fabric using a 3-foot overlap in all directions.

3.04 PERIMETER EROSION BARRIER

A. Erect perimeter erosion barrier before starting construction operations which might cause sedimentation or siltation at site of proposed perimeter erosion barrier.

B. Construct silt fence in an arc or horseshoe shape with ends pointing up slope. Construct perimeter erosion barrier to the dimensions and details shown on Drawings. Remove

perimeter erosion barrier after slopes and ditches have been stabilized and turf developed to the extent that future erosion is unlikely. Dispose of materials remaining after removal.

C. Inspect all perimeter erosion barrier immediately after each rainfall and at least daily. Correct deficiencies immediately. Where construction activity changes the earth contour and drainage runoff, make a daily review so that perimeter erosion barrier is properly located for effectiveness. Where deficiencies exist, install additional perimeter erosion barrier.

D. Remove and dispose of sediment deposits. Sediment deposits remaining in place after the perimeter erosion barrier is no longer required shall be dressed to conform with the existing grade and the area topsoiled, fertilized, and seeded as required.

3.05 SILT SOCK

A. Silt sock shall be installed in accordance with the requirements of the Illinois Urban Manual.

END OF SECTION

SECTION 32 11 23

AGGREGATE BASE COURSE

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Aggregate Base Course for Roads and Parking Areas.
   2. Gravel Roads.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

C. CONTRACTOR is cautioned that existing private and public roads and shoulders may not hold up to typical construction traffic or activities. CONTRACTOR shall repair all roads, shoulders, and gravel areas damaged in accordance with this section. All paved areas shall also be repaired in accordance with Section 32 11 26–Hot Mix Asphalt Paving.

1.02 MEASUREMENT AND PAYMENT

A. Aggregate base course will not be measured for payment and shall be considered incidental to the Work. This includes but not limited to sidewalks, driveways, concrete, curb and gutter, structures, pavement patches, and permanent-type pavement.

1.03 REFERENCES

A. Standard Specifications: Unless otherwise indicated, Standard Specifications shall refer to the State of Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications.

1.04 DEFINITIONS

A. Street or road shall include streets, roads, driveways, and parking lots.

1.05 SUBMITTALS

A. Submit sieve analysis for proposed materials in accordance with Section 01 33 00–Submittals.

1.06 DRAINAGE DURING CONSTRUCTION

A. CONTRACTOR shall comply with the provisions of Article 280 of the Standard Specifications.

PART 2–PRODUCTS

2.01 AGGREGATES

A. Aggregate for base course shall consist of crushed stone and shall meet the requirements of Article 351 of the Standard Specifications. The material furnished shall be uniformly graded and shall conform to ASTM C33.

B. Base course shall be uniformly graded and shall be gradation CA6 meeting the requirements of the Standard Specifications.

C. Material for top layer of shoulders shall be gradation CA4 meeting the requirements of the Standard Specifications.

PART 3–EXECUTION

3.01 PREPARATION

A. The subgrade shall be graded and rolled to provide uniform density and shall comply with the profile and cross sections contained in the Drawings. All street subgrade in cut areas and all areas to receive fill shall be proof-rolled in the presence of OWNER or ENGINEER with a heavily loaded triaxle dump truck or similar equipment prior to the placement of any fill materials or base course. The subgrade shall be prepared in accordance with Article 301 of the Standard Specifications.

3.02 CONSTRUCTION

A. Base course grade shall be set to allow placement of thickness of asphaltic pavement shown or specified.

B. Depth of base course shall be provided according to the standard cross sections or details provided on the Drawings.

C. Depth of base course shall be the existing depth or 9 inches, whichever is greater.

D. Base course shall be placed directly on subgrade areas or on top of salvaged asphalt millings unless otherwise indicated on the Drawings.

E. Each layer of base course shall be wetted and rolled to provide maximum compaction in accordance with Article 351.05 of the Standard Specifications.

F. The finished base course shall be fine graded in preparation for paving.

G. After final grading, CONTRACTOR shall maintain the base course until asphaltic paving work has been completed.

H. All gravel surfaces damaged during construction shall be replaced. The depth of aggregate shall match existing or 9 inches, whichever is greater.

END OF SECTION

SECTION 32 11 26

HOT MIX ASPHALT PAVING

PART 1–GENERAL

1.01 SUMMARY

A. Work includes Hot Mix Asphalt (HMA) paving, prime coat, and casting adjustments.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

C. CONTRACTOR is cautioned that existing private and public roads and shoulders may not hold up to typical construction traffic or activities. CONTRACTOR shall replace all roads, shoulders, and paved areas damaged during the project in accordance with this section. Gravel shoulders, gravel roads, and parking areas shall be repaired in accordance with Section 32 11 23–Aggregate Base Course.

1.02 MEASUREMENT AND PAYMENT

A. Class D Patch, of thickness specified, shall be measured and paid for at the Contract Unit Price Bid per square yard, in accordance with Section 442 of the Standard specifications.

B. Hot-Mix Asphalt Path, of thickness specified shall be measured and paid for at the Contract Unit Price Bid per square yard. The work shall include the aggregate base course, compaction, hot-mix asphalt, materials, equipment, and labor required to complete the work.

C. Hot-Mix Asphalt Driveway Pavement, of thickness specified shall be measured and paid for at the Contract Unit Price Bid per square yard.

1.03 REFERENCES

A. Standard Specifications: Unless otherwise indicated, Standard Specifications shall refer to the State of Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications.

1.04 DEFINITIONS

A. Street or road shall include streets, roads, driveways, and parking lots.

1.05 SUBMITTALS

A. Prior to the commencement of paving, mix designs and aggregate sieve analysis shall be submitted to ENGINEER for approval in accordance with Section 01 33 00–Submittals.

PART 2–PRODUCTS

2.01 HMA PAVEMENT

A. HMA surface course shall be Mix “D,” N50, with a mix type of IL 9.5 mm and percent air voids of 4% at 50 gyrations. HMA binder course shall be IL 19.0 mm, N50, with percent air voids of 4% at 50 gyrations. HMA binder shall have a PG binder grade of PG 64-28. HMA surface course shall have a PG binder grade of SBS-PG-76-28.

B. Aggregate shall conform to the requirements of Article 406.02 of the Standard Specifications.

C. Where existing pavement is replaced, minimum pavement thickness shall be 4 inches or existing thickness, whichever is greater. Lower layer shall be 2 1/4 inches minimum. Upper layer shall be 1 3/4 inches minimum.

D. Materials for prime coat shall conform to the requirements of Article 406.02.

E. Class D patches shall conform to the requirements of Section 442 of the Standard Specifications.

PART 3–EXECUTION

3.01 ALLOWABLE REMOVAL OF PAVEMENT

A. CONTRACTOR shall remove asphalt pavement and road surface as a part of the general excavation. The width of pavement removed shall be the minimum possible and acceptable for convenient and safe installation of structures, utilities, and appurtenances.

B. All asphalt pavement shall be cut on neat, straight lines and shall not be damaged beyond the limits of the excavation. Should the cut edge be damaged, a new cut shall be made in neat, straight lines parallel to the original cut encompassing all damaged areas. Pavement removal shall be extended to a seam or joint if seam or joint is within 3 feet of damaged pavement.

3.02 CASTING ADJUSTMENTS

A. All new and existing manhole castings and valve boxes within the paving limits of the street, which require adjustment, shall be adjusted to match the finished asphaltic surface. Adjustments shall not be made greater than 48 hours prior to the anticipated time of paving. Adjustments shall be performed as called for in Section 33 00 10–Buried Piping and Appurtenances. CONTRACTOR shall furnish Class 1 barricades with flashers on all adjusted castings until paving has been completed. Tops of castings and valve boxes shall be oiled or protected by other methods to prevent sealing of lids and filling of lift holes during paving. Upon completion of paving operations, CONTRACTOR shall check all castings and valve boxes to see that the lids are clean and operational. Manhole casting adjustment shall be included in the cost of other items of work, and no further compensation will be made. Valve box adjustment shall be considered an incidental item of work.

3.03 BITUMINOUS MATERIALS (TACK COAT AND PRIME COAT)

A. All work shall be in accordance with the Standard Specifications, Article 406.05.

B. If hot mix asphalt surface course is applied to an existing street or is not applied the same day as binder course, the existing street or binder surface shall be tack coated prior to surface paving. Prior to placement of tack coat, the streets shall be thoroughly cleaned and broomed according to Section 358 of the Standard Specifications. Tack coat shall be applied at a rate of 0.05 pounds per square foot.

C. In situations where traffic must be maintained, tack coat shall not be placed on the traveled half of the street until traffic can be switched to the new pavement.

D. Aggregate bases shall have a layer of prime coat applied prior to paving the binder course. The prime coat shall be applied at the rate of 0.25 pounds per square foot.

3.04 JOINTS

A. Joints between old and new pavements or between successive day's work shall be constructed and treated to provide a thorough and continuous bond between the old and new mixtures. Transverse construction joints shall be constructed by cutting the material back for its full depth to expose the full depth of the course. Where a header is used, the cutting may be omitted provided the joint conforms to the specified thickness. These joints shall be treated with prime coat material applied with a hose and spray nozzle attachment to fully coat the joint surface.

B. The longitudinal joint shall be made by overlapping the screed on the previously laid material for a width of not more than 2 inches and depositing a sufficient amount of asphaltic mixture so that the finished joint will be smooth and tight. Longitudinal joints in the surface course shall at no time be placed immediately over similar joints in the binder course beneath. A minimum distance of 12 inches shall be permitted between the location of the joints in the binder course and the location of similar joints in the surface course above.

C. All costs for furnishing and applying prime coat to butt joints as specified above shall be considered incidental.

3.05 FINISHING ROADWAY

A. The finished base course shall be fine-graded in preparation for HMA paving. Base course ramps at all existing pavement shall be removed to provide a full depth butt joint. Base course around manhole castings and valve boxes shall be hand-trimmed and compacted with a vibratory plate compactor.

B. This item shall include all of the following preparatory and finishing items and any other incidental items of work required for construction. Asphaltic ramps around manholes on existing binder course to receive surface course shall be removed. Asphaltic ramps shall be installed on all manholes and at all butt joints in areas to receive binder course only.

C. Finishing roadway shall be considered incidental to HMA paving.

D. Paint all markings as shown on Drawings with lines not less than 4 inches wide.

3.06 TESTING HOT MIX ASPHALT

A. ENGINEER may require samples of HMA pavement for testing. CONTRACTOR shall cut samples from the finished pavement where marked by ENGINEER and patch the sample area. Samples for sieve analysis and asphalt content will be taken by ENGINEER prior to placement.

3.07 HOT MIX ASPHALT PAVING

A. HMA paving work shall include the construction of plant-mixed hot mix asphalt pavement in the areas shown on the Drawings. All work shall be performed in accordance with Section 406 of the Standard Specifications.

B. Prior to commencement of paving operations, CONTRACTOR shall examine the finished road bed. CONTRACTOR shall notify ENGINEER of any areas of suspected instability.

C. The pavement structure for streets, roadway, and parking lot construction shall be determined from the standard cross sections provided on the Drawings.

3.08 PAVEMENT PATCHING

A. Pavement patching shall be in accordance with Section 442 of the Standard Specifications.

END OF SECTION

SECTION 32 16 13

CONCRETE CURB AND GUTTER, SIDEWALKS, AND DRIVEWAY APRONS

PART 1–GENERAL

1.01 SUMMARY

A. Work includes concrete curb and gutter, sidewalks, and base course foundation for sidewalks, driveways, and driveway aprons as shown on the drawings.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 MEASUREMENT AND PAYMENT

A. Combination Concrete Curb and Gutter Removal and Replacement shall be measured and paid for at the Contract Unit Price Bid per foot in accordance with Section 606 of the Standard Specifications.

B. Portland Cement Concrete Sidewalk, of thickness specified, shall be measured and paid for at the Contract Unit Price Bid per square foot in accordance with Section 424 of the Standard Specifications.

C. Aggregate Base Course will not be measured and paid for separately, but shall be considered incidental to the placement of any curb and gutter, sidewalk, multi-use path, or driveway.

1.03 REFERENCES

A. Standard Specifications: Unless otherwise indicated, Standard Specifications shall refer to the State of Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications.

B. AASHTO M148 Standard Specifications for Liquid Membrane–Forming Compounds for Curing Concrete.

1.04 QUALITY ASSURANCE

A. Unless otherwise specified, all curb and gutter, sidewalks, and driveway apron construction shall meet the requirements of the Standard Specifications.

PART 2–PRODUCTS

2.01 CONCRETE

A. All concrete shall conform to Section 1020 of the Standard Specifications, Class SI air entrained.

B. Concrete for combination curb and gutter shall be High Early mix and shall conform to Section 1020 of the Standard Specifications.

2.02 CURING COMPOUND

A. Liquid curing compounds shall conform to the requirements of the Standard Specifications for Liquid Membrane-Forming Compounds for Curing Concrete, AASHTO Designation M148, Type 2, White Pigmented.

PART 3–EXECUTION

3.01 BASE PREPARATION–CURB AND GUTTER

A. The base course beneath the curb and gutter shall be trimmed or filled as necessary to provide a full depth of curb and gutter at a compacted depth of 4 inches. Prior to placement of concrete, the base shall be thoroughly compacted and moistened.

3.02 BASE PREPARATION–SIDEWALKS AND DRIVEWAYS

A. The subgrade shall be thoroughly compacted and finished to a trim, firm surface. All soft or unsuitable material shall be removed and replaced with suitable material.

B. A minimum 4-inch-thick layer of aggregate base course, Type B, shall be placed under all sidewalks. This material shall be thoroughly moistened and compacted before the concrete is placed.

C. A minimum 4-inch-thick layer of aggregate base course, Type B, shall be placed under all PCC Driveway Pavement, 6”. A minimum 5-inch-thick layer of aggregate base course, Type B, shall be placed under all other PCC pavement. This material shall be thoroughly moistened and compacted before the concrete is placed.

D. A minimum 6-inch-thick layer of aggregate base course, Type B, shall be placed under all HMA driveway pavement. This material shall be thoroughly moistened and compacted before concrete is placed.

E. A minimum 6-inch-thick layer of aggregate base course, Type B, shall be placed under brick paver driveways. This material shall be thoroughly moistened and compacted before brick is placed.

3.03 FORMS

A. Forms shall be of metal and of sufficient strength to resist distortion or displacement. Metal or wood forms shall be used to construct a curb and gutter cross section as shown on Village of Winnetka Standard Details. Forms shall be full depth of the required work. Facing boards, if used, shall be built so as to obtain the cross section called for on the Drawings. Forms shall be securely staked and held firmly to line and grade. Forms shall be cleaned thoroughly and oiled before reuse.

B. All curved curb and gutter shall form smooth curves and shall not be a series of chords. Radius forms shall be used for all curved curb and gutter where the radius of curvature is 100 linear feet or less.

3.04 PLACING AND FINISHING CONCRETE

A. Unless otherwise specified, concrete shall be placed in accordance with the Standard Specifications.

B. Concrete shall be thoroughly tamped to remove all voids. The exposed surfaces of the curb and gutter shall be thoroughly troweled and finished with a brush at right angles to the line of the curb and gutter. The back edge of the curb, the edge of the gutter adjacent to the pavements, and edges adjacent to expansion joints shall be rounded with a 1/4-inch-radius edger. Honeycombed areas along the back of the curb shall be pointed with mortar.

C. Before final finishing of curb and gutter, a 10-foot straight edge shall be used to check the surface. Any areas showing a variation of more than 1/4 inch from the straight edge shall be corrected. Final finishing shall be delayed a sufficient time so that excess water and grout will not be brought to the surface.

D. Concrete for sidewalk shall be placed to a minimum thickness of 5 inches, except at driveways and alleys, which shall have a minimum thickness equal to that of the driveway. Driveways shall have a minimum thickness of 8 inches. The concrete shall be thoroughly spaded and tamped to remove all voids. The surface of the driveway or sidewalk shall be thoroughly troweled and finished with a brush at right angles to the driveways or sidewalk line.

3.05 MACHINE FORMED CURB AND GUTTER

A. CONTRACTOR may elect to use a machine for placing, forming, and consolidating concrete curb and gutter. If a machine is used, the resulting curb and gutter shall be of such a quality as to equal or exceed that produced by the method described above.

3.06 DRIVEWAY OPENINGS

A. Driveway openings will be staked by CONTRACTOR in the field. Details for curb and gutter through a driveway are shown in the Village of Winnetka Standard Details.

3.07 JOINTING–CURB AND GUTTER

A. Joints shall be in accordance with the Village of Winnetka Standard Details.

B. A 3/4-inch expansion joint filler shall be placed through the curb and gutter at the radius points of all intersection curbs. This expansion joint filler shall extend through the entire thickness of concrete and shall be perpendicular to the surface and at right angles to the line of the curb and gutter.

C. If machine-formed curb and gutter is provided by CONTRACTOR, CONTRACTOR shall create a plane of weakness at all joints that is sufficient to cause contraction cracking at the joints.

D. CONTRACTOR may saw contraction joints. The depth of cut shall be a minimum of one-fifth of the total concrete thickness. Sawing shall be done as soon as practicable after the concrete has set sufficiently to preclude raveling during the sawing and before any shrinkage cracking takes place in the concrete. If this method results in random cracking, CONTRACTOR will be required to tool the contraction joints as specified above.

E. The use of steel separator plates will not be allowed.

F. Jointing shall be included in the price bid for curb and gutter.

3.08 JOINTING–SIDEWALKS AND DRIVEWAYS

A. Joints shall be in accordance with the Village of Winnetka Standard Details.

B. Concrete sidewalk shall be cut into rectangular blocks approximately 5 feet long. The cut must extend at least one-fifth of the total thickness of concrete. The edges of the sidewalk along forms and joints shall be rounded with an edging tool of 1/4-inch radius. All joints shall be at right angles to the centerline of the sidewalk.

C. Concrete driveways shall be jointed in approximately square sections. The depth of the joint and the finishing of the edges shall be the same as for concrete sidewalk.

3.09 EXPANSION JOINTS

A. Expansion joints shall be in accordance with the Village of Winnetka Standard Details.

B. A 1-inch-thick expansion joint filler shall be placed between curb ramps and back of curb.

C. A 3/4-inch-thick expansion joint shall be placed at all sidewalk corners, between sidewalks and buildings, and between back of curb and sidewalk.

3.10 SLOPE

A. Sidewalk cross slope shall be 1/4 inch per foot unless otherwise noted in the Drawings or requested by ENGINEER.

3.11 CURB RAMP

A. Curb ramps shall be constructed in accordance with the Standard Specifications.

3.12 INLET CASTING ADJUSTMENT

A. Inlet casting shall be adjusted to grade as required for the installation of the new curb and gutter.

3.13 UTILITY MARKINGS

A. The ends of utility service lines (sewer, water, and electrical conduits) shall be marked during installation. The curb top shall be marked immediately adjacent to these utility markers. Curb markers shall be 2 inches in height and shall consist of a “W” for water, “S” for sewer, and

“E” for electric and blank conduits. Markings shall be embossed a minimum of 1/4 inch deep and be 3/8 inch thick. Utility markings shall be considered incidental work to curb and gutter.

3.14 CURING

A. As soon after finishing operations as the free water has disappeared, the concrete surface shall be sealed by spraying on it a uniform coating of curing material in such a manner as to provide a continuous water impermeable film on the entire concrete surface.

B. The material shall be applied to form a uniform coverage at the rate of not less than one-half gallon per 100 square feet of surface area.

C. Within 30 minutes after the forms have been removed, the edges of the concrete shall be coated with the curing compound applied at the same rate as on the finished surface.

3.15 PROTECTION OF CONCRETE

A. CONTRACTOR shall erect and maintain suitable barricades to protect the new concrete. Where it is necessary to provide for pedestrian traffic, CONTRACTOR shall, at their own cost, construct adequate crossings. Crossing construction shall be such that no load is transmitted to the new concrete.

B. Any part of the work damaged or vandalized prior to final acceptance shall be repaired or replaced at the expense of CONTRACTOR in a manner satisfactory to ENGINEER.

C. Pedestrian traffic shall not be permitted over new concrete prior to 72 hours after application of curing material. Vehicular traffic shall not be permitted over newly placed concrete within 7 days after completion when temperatures are 70°F or higher, 10 days when temperatures are not lower than 60°F and up to a maximum of 21 days when the temperatures are generally lower than 60°F.

3.16 CONCRETE TESTING

A. Concrete testing shall be in accordance with the Standard Specifications.

END OF SECTION

SECTION 32 17 23.13

PAVEMENT MARKINGS

PART 1–GENERAL

1.01 SUMMARY

A. This section describes furnishing and installing pavement markings conforming to the State of Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Section 780 and as shown on the Drawings.

1.02 MEASUREMENT AND PAYMENT

A. Thermoplastic Pavement Markings: Line, of thickness, shall be measured and paid for at the Contract Unit Price Bid per foot, in accordance with Section 780 of the Standard Specifications.

1.03 REFERENCES

A. State of Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Section 780.

1.04 SUBMITTALS

A. Submittals shall be in accordance with provisions of Section 01 33 00–Submittals.

PART 2–PRODUCTS

2.01 PAVEMENT MARKINGS

A. Provide thermoplastic pavement markings in accordance with Standard Specifications.

PART 3–EXECUTION

3.01 PAVEMENT MARKINGS

A. Place markings in accordance with Section 780 of the Standard Specifications.

B. Centerline marking shall be double 4-inch solid yellow line placed at the marked centerline.

C. Traffic lane marking shall be single 4-inch broken white line placed 12 feet from median curb flange or as shown, or requested by ENGINEER. Turning-lane markings and crosswalk markings shall be 8 inches and 6 inches solid white, respectively. Stop bars shall be 24 inches solid white.

D. Markings shall be placed at locations noted within 1-inch tolerance.

3.02 RAISED REFLECTIVE PAVEMENT MARKERS

A. Raised Reflective Pavement Markers shall be installed in accordance with Section 781 of the Standard Specifications.

END OF SECTION

SECTION 32 92 19

SEEDING AND SODDING

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. Preparation of Subsoil.
   2. Placing Topsoil.
   3. Seeding, Sodding, Mulching and Fertilizing.
   4. Maintenance.

B. Except for paved, riprapped, or built-up areas, all areas of the site which are disturbed and areas noted on the Drawings shall be seeded or sodded. Surfaces on 3-to-1 slope or less may either be seeded or sodded, but surfaces on greater than 3-to-1 slope shall be sodded.

C. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 REFERENCES

A. FS O-F-241–Fertilizers, Mixed, Commercial.

B. Standard Specifications: Unless otherwise indicated, Standard Specifications shall refer to the State of Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications.

1.03 QUALITY ASSURANCE

A. Provide seed mixture in containers showing percentage of seed mix, year of production, net weight, date of packaging, and location of packaging.

B. Sod: Minimum age of 18 months, with root development that will support its own weight without tearing when suspended vertically by holding the upper two corners. Submit sod certification for grass species and location of sod source.

1.04 DELIVERY, STORAGE, AND PROTECTION

A. Deliver grass seed mixture in sealed containers. Seed in damaged packaging is not acceptable.

B. Deliver sod on pallets or in rolls. Protect exposed roots from dehydration. Do not deliver more sod than can be laid within 24 hours.

C. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

1.05 MEASUREMENT AND PAYMENT

A. Restoration, Seed Class 1 shall be measured and paid for at the Contract Lump Sum Bid. The Work shall include all material, equipment, labor, preparation of subsoil, furnishing and placing 6 inches of topsoil, fertilizer, seed, erosion control blanket, weeding, watering, and any other items required to complete the Work. ENGINEER's estimated of Restoration-Seed is 200 square yards.

B. Restoration, Sod shall be measured and paid for at the Contract Lump Sum Bid. The Work shall include all material, equipment, labor, preparation of subsoil, furnishing and placing 6 inches of topsoil, fertilizer, sod, watering, and any other items required to complete the Work. ENGINEER's estimated of Restoration-Sod is 100 square yards.

C. Hardwood Mulch, of thickness specified, shall be measured and paid for at the Contract Unit Price Bid per square yard.

PART 2–PRODUCTS

2.01 SEED MIXTURE

A. Seed Mix Class 1–Lawn Mixture per Standard Specifications. Use blue tag certified seed. Do NOT use bent or Poa Annua. Each seed lot will be subject to sampling and testing by the State seed laboratory.

B. Weed content shall not exceed 0.5% in mixture.

2.02 SOD

A. Follow Section 252 of the Standard Specifications.

B. Erosion control blanket or turf reinforcement shall be in accordance with Section 251.05 of the Standard Specifications.

C. Anchorage staples shall be in accordance with Section 252.07 of the Standard Specifications.

2.03 SOIL MATERIALS

A. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay, or impurities, plants, weeds, roots and rocks; pH value of minimum 5.4 and maximum 7.0.

B. Topsoil from the site may be used if it meets the above requirements. Additional topsoil shall be provided as required by Drawings and Specifications.

2.04 ACCESSORIES

A. Mulching material shall be oat or wheat straw, free from weeds, foreign matter detrimental to plant life, and dry. Hay or chopped cornstalks are not acceptable.

B. Fertilizer shall be FS O-F-241, Type I, Grade A; recommended for grass, with 50% of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil to the following proportions: Nitrogen 10%, phosphoric acid 10%, soluble potash 10%. Submit composition deviations to suit site conditions for ENGINEER's review.

C. Water shall be clean, fresh, and free of substances or matter which could inhibit vigorous growth of grass.

D. Erosion control blanket shall be in accordance with Section 251 of the Standard Specifications and as specified in Section 31 25 00–Slope Protection and Erosion Control.

2.05 MULCH MATERIALS

A. Hardwood Mulch: Organic hardwood mulch, free from deleterious materials, weeds, stones, and sticks, and growth or germination-inhibiting ingredients.

PART 3–EXECUTION

3.01 EXAMINATION

A. Verify that prepared soil base is ready to receive the work of this section.

3.02 PREPARATION OF SUBSOIL

A. Prepare subsoil to eliminate uneven areas and low spots. Maintain lines, levels, profiles, and contours. Make changes in grade gradual. Blend slopes into level areas.

B. Remove foreign materials, weeds, and undesirable plants and their roots. Remove contaminated subsoil in accordance with local, state, and federal regulations.

C. Scarify subsoil to a depth of 3 inches where topsoil is to be placed. Repeat deep (> 12 inches) subsoiling or cultivation in areas where equipment used for hauling and spreading topsoil has compacted subsoil.

3.03 PLACING TOPSOIL

A. Spread topsoil to a minimum depth of 6 inches over area to be seeded. Rake until smooth.

B. Place topsoil during dry weather and on dry unfrozen subgrade.

C. Remove vegetable matter and foreign nonorganic material from topsoil while spreading.

D. Grade topsoil to eliminate rough, low or soft areas, and to provide positive drainage.

E. Manually spread topsoil around trees, plants, and buildings to prevent damage.

F. Leave stockpile area and site clean and raked, ready to receive landscaping.

3.04 FERTILIZING

A. Apply fertilizer at a rate of 17 pounds per 1,000 square feet.

B. Apply after smooth raking of topsoil and prior to installation of seed or sod, no more than 18 hours before seeding or 48 hours before sodding.

C. Do not apply fertilizer at same time or with same machine as will be used to apply seed.

D. Mix thoroughly into upper 2 inches of topsoil.

E. Lightly water to aid the dissipation of fertilizer.

3.05 SEEDING

A. Apply seed at a total rate of 3 1/2 pounds per 1,000 square feet. Apply evenly in two intersecting directions. Rake in lightly or roll the seeded area after seeding.

B. Do not seed areas in excess of that which can be mulched on same day.

C. Planting season shall be between April 15 and June 15, or between August 15 and October 15.

D. Do not sow immediately following rain, when ground is too dry or during windy periods.

E. Immediately following seeding, apply mulch:
   1. Minimum Spread Rate: 1 1/2 tons per acre.
   2. Maximum Depth: 1 1/2 inches to 2 inches.

F. Apply water with a fine spray immediately after each area has been mulched and on a daily basis to keep straw in place.

G. Seeding shall be maintained by CONTRACTOR until grass is well established. Grass is well established when it covers the entire seeded areas to a height of 2 inches.

H. Place erosion control mats per Section 31 25 00–Slope Protection and Erosion Control.

3.06 LAYING SOD

A. Moisten prepared surface immediately prior to laying sod.

B. Lay sod immediately after delivery to site to prevent deterioration.

C. Lay sod tight with no open joints visible and no overlapping; stagger end joints 12 inches minimum. Do not stretch or overlap sod pieces.

D. Lay smooth. Align with adjoining grass areas.

E. Place bottom elevation of sod 1 inch below top of adjoining edging, paving, or curbs.

F. On slopes 4-to-1 and steeper, sod will be secured with wooden pegs at a maximum of 24 inches on center.

G. On slopes 2-to-1 and steeper, lay sod perpendicular to slope and secure every row with wooden pegs at maximum 2 feet on center. Drive pegs flush with soil portion of sod.

H. All sod placed in ditches, flumes, or other appurtenances where a concentrated flow of water may be expected shall be staked regardless of the slope.

I. Water sodded areas immediately after installation. Saturate sod to 4-inch depth of soil.

3.07 MAINTENANCE

A. Mow grass at regular intervals to maintain at a maximum height of 2 1/2 inches. Do not cut more than one-third of grass blade at any one mowing.

B. Immediately remove clippings after mowing.

C. Water to prevent grass and soil from drying out.

D. Roll surface to remove minor depressions or irregularities.

E. Control growth of weeds. Apply herbicides in accordance with manufacturer’s instructions. Remedy damage resulting from improper use of herbicides.

F. Immediately reseed areas which fail to show adequate catch. Bare spots shall not exceed 5 square feet in area and not exceed 3% of the total seeded areas. Immediately replace sod in areas which show bare spots or deterioration.

G. Protect seeded areas with warning signs during maintenance period.

H. Immediately reseed areas which do not show a satisfactory stand of established grass, and resod areas that do not show satisfactory establishment.

I. Correct damage resulting from erosion, gullies, rills, or other causes by filling with topsoil, tamping, refertilizing, and reseeding if damage occurs prior to acceptance of work.

J. Maintain seeded lawns for not less than 60 days after substantial completion.

K. If seeded in fall and not given full 60 days of maintenance, or if not considered acceptable at that time, continue maintenance the following spring until acceptable lawn is established.

L. Maintain sodded lawns for not less than 30 days after substantial completion.

M. Maintain lawns by watering, fertilizing, weeding, mowing, trimming, and other operations such as rolling, regrading, and replanting as required to establish a smooth acceptable lawn free of eroded or bare areas.

END OF SECTION

SECTION 33 00 10

BURIED PIPING AND APPURTENANCES

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. All underground piping, valves, and appurtenances of every description.
   2. Excavation, dewatering, and backfilling for all work under this section unless otherwise noted.
   3. Concrete foundations and anchor bolts for all equipment furnished under this section.
   4. Underground piping connections to all equipment, whether furnished under this section or not.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

C. Measurement and Payment: Payment for all work, including materials, equipment, and miscellaneous items necessary to complete the installation, will be made at the Unit Price Bid for buried piping and appurtenances.

1.02 REFERENCED SPECIFICATIONS

A. Standard Specifications for Water and Sewer Construction in Illinois, current edition, referred to herein as SSWSC.

B. Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction, current edition, including all issued supplemental specifications, referred to herein as SSRBC.

C. Village of Winnetka Public Works and Engineering Design Guidelines, current edition, and Standard Construction Details.

1.03 MEASUREMENT AND PAYMENT

A. Force Main, of size, and material specified, shall be paid for at the Contract Unit Price Bid per linear foot, without deducting for length of fittings and valves. Fittings, thrust blocks, and polyethylene encasement shall not be measured and paid for separately, but shall be considered incidental to the pipe. The unit price includes furnishing labor, material (except when provided by OWNER), and equipment to install the force main. Force main in casing pipe shall be paid for separately. See Section 40 05 00-Piping and Appurtenances for force main to be installed within pumping stations.

B. Sanitary Manhole, Type A, Type 1 Frame, Closed Lid, of diameter specified, shall be paid for at the Contract Unit Price Bid per each. The price Bid shall include the cost of all labor, materials, excavation, bedding, and trench backfill necessary to complete the Work. A maximum of 6 inches outside the manhole will be paid for as Trench Backfill. See Section 31 23 00–Excavation, Fill, Backfill, and Grading.

C. Connections to Existing Sanitary Manhole shall be paid for at the Contract Unit Price Bid per each. The price Bid shall include the cost of all labor, materials, excavation, pipe and pipe fittings, bedding, and trench backfill necessary to complete the work.

D. Cut and Mechanically Cap Force Main shall be paid for at the Contract Unit Price Bid per each. The Contract unit price of all labor, materials, and equipment necessary to install the mechanical cap shall be included in the unit price.

1.04 SUBMITTALS

A. Submit shop drawings in accordance with Section 01 33 00–Submittals for all products and materials herein described.

PART 2–PRODUCTS

2.01 MATERIALS OF CONSTRUCTION

A. All materials used in the manufacture, assembly, and painting of piping and valves in contact with water shall be compatible with potable water supplies and in contact with chemical feed systems shall be compatible with the chemicals being used. All glues, solvents, solders, etc., shall likewise be compatible. For instance, no lead-base solders shall be used. All materials in contact with water to be used for potable water supplies shall be National Sanitation Foundation (NSF)-approved.

B. Size and Type:
   1. All materials shall conform to the size and type shown on the Drawings or called for in the specifications.
   2. In joining two dissimilar types of pipe, standard fittings shall be used when available. In the event standard fittings are not available, the method of joining shall be standard selected by CONTRACTOR and submitted for review by ENGINEER.

C. Materials provided shall be suitable for the conditions in which they are being installed and used. CONTRACTOR shall review installation requirements of the Contract with material suppliers and incorporate any additional installation requirements necessary to meet the required use within the price bid for the Work.

D. All pipe and materials used in performance of the Work shall be clearly marked as to strength, class, or grade. Pipe and materials not so marked shall be subject to rejection.

E. When requested by ENGINEER, material suppliers shall furnish certificates of compliance indicating that all tests required by various Standards have been conducted and that the test results comply with the Standards.

F. Piping appurtenances shall be made of the materials specified. All appurtenances not designated as to type shall be selected by CONTRACTOR and submitted for review by ENGINEER.

2.02 MANHOLES AND UNDERGROUND UTILITY STRUCTURES

A. Unless otherwise specified for special manholes, all manholes shall be reinforced concrete precast manholes. Reinforced concrete manhole base sections, riser sections, cones, and flat slabs shall conform to the requirements of ASTM C478. Solid precast manhole bottoms shall be provided. Manholes shall be provided with minimum diameters as shown on the Village of Winnetka Standard Details.

B. Manhole top sections shall be precast reinforced eccentric cones unless precast reinforced flat slabs are specifically required or shown on the Drawings or are necessary because of shallow depth. Flat slabs shall have opening offset unless otherwise required or shown. Flat slabs shall be designed for HS20 loadings.

C. Unless otherwise specified or shown on the Drawings, all underground utility structures shall be precast, reinforced concrete. Reinforced concrete base sections, riser sections, and flat slabs shall conform to the requirements of ASTM C858. Flat slabs shall be designed for HS20 loadings. Solid precast bottoms shall be provided unless otherwise shown on the Drawings.

D. Manhole Chimney Adjusting Rings:
   1. Provide concrete manhole adjusting rings.
   2. Precast concrete adjusting rings for standard manholes shall have an inside diameter of 26 inches, be not less than 2 inches nor more than 6 inches high, and shall have a wall thickness of 6 inches unless otherwise specified. The rings shall contain a minimum of one No. 2 reinforcing rod centered within the ring. The joints between rings and between rings and castings shall be sealed with preformed flexible joint sealant as specified herein.
   3. CONTRACTOR shall supply ring materials, adhesive, labor, and equipment to permanently install the rings in strict accordance to manufacturer's recommendations.
   4. A maximum of two precast concrete adjusting rings, totaling a maximum of 8 inches, will be allowed.

E. Frames and Covers: Provide frames and covers as specified in Section 08 31 13–Access Doors and Frames.

F. Manhole Chimney Seals:
   1. CONTRACTOR shall provide internal manhole frame chimney seal. Chimney seal shall be Cretex, or equal. The seal shall be made of a rubber type product, with a minimum thickness of 1/8 inch, a minimum unstretched width of 8 inches and be extruded or molded from a high-grade rubber compound conforming to the applicable requirements of ASTM C923, with a minimum 1,500 psi tensile strength, a maximum 18 percent compression set, and a hardness (durometer) of 48±5. The bands used for compressing the sleeve against the manhole shall be fabricated from stainless steel conforming to ASTM A240, Type 304, for sheet and ASTM A479, Type 304, for rods. Any screws, bolts, or nuts used on these bands shall be stainless steel conforming to ASTM F593 and F594, Type 304. The internal seal or its appurtenances shall not extend far enough into the manhole opening to restrict entry into or exit from the manhole.
   2. Manhole frame-chimney seals shall be designed to prevent the leakage of water into the manhole at the area of the joint between the manhole frame and chimney continuously throughout a 20-year design life. The seal shall remain flexible, allowing repeated vertical movements of the frame because of frost lift, ground movement, or

other causes of up to 2 inches and/or repeated horizontal movements of the frame because of thermal movement of the pavement or other causes of up to 1/2 inch, both rates of movement occurring at rates not less than 0.10 inch per minute. If the seal is an internal seal, it and its appurtenances shall not extend far enough into the manhole opening to restrict entry or exit from the manhole.

3. The seal shall be made of only materials that have been successfully used in sanitary sewer construction for at least 10 years and have proven to be resistant to sanitary sewage; corrosion or rotting under wet or dry conditions; the gaseous environment in sanitary sewers and at road surfaces including common levels of ozone, carbon monoxide and other trace gases at the sites of installations; the biological environment in soils and sanitary sewers; chemical attacks by road salts, road oil and common street spillages or solvents used in street construction or maintenance; the temperature ranges, variations and gradients in and between manhole frames and chimneys in the climate of the location of construction; variations in moisture conditions and humidity; fatigue failure caused by a minimum of 30 freeze thaw cycles per year; or vibrations because of traffic loadings; fatigue failure because of repeated variations of tensile, compressive and shear stresses and repeated elongation and compression; and any combination of the foregoing. The materials used shall be compatible with each other and the manhole materials.

G. Floor boxes shall conform to Section 40 05 00–Piping and Appurtenances.

H. Precast Reinforced Concrete Manholes:

1. Lengths of manhole riser (barrel) shall be furnished in such combinations as to conveniently make up the depth of the manhole. A maximum of two handling holes per length of riser will be permitted.
2. Drop entrances to sanitary sewer manholes shall be installed where indicated on the Drawings. Drop entrances shall be of the same diameter as the sewer main from sizes 8 inches through 18 inches. For larger diameters, the drop shall be 18 inches unless otherwise shown on the Drawings. Drop entrances for storm sewer manholes are not required.
3. The interior bottom of sanitary sewer and storm sewer manholes shall be constructed of concrete benches which shall be precast or poured in place in the field. Benches shall extend to the top of each pipe to a maximum height of 42 inches. Flow lines shall be made smooth with uniform curves to promote flow through the manhole.
4. All joints between manhole pipe sections and top shall be tongue and groove conforming to ASTM C443. Manhole joints shall be sealed with circular O ring or preformed flexible joint sealant that shall be Ram-nek, Kent-Seal, Mas-stik, or equal.
5. Manhole connections for sanitary sewer mains shall be made using flexible, watertight connections, PSX Press Seal, Kor N Seal, or equal, for sewers up through 18-inch diameter. All other sanitary sewer manhole connections shall be made with A Lok, PSX Press Seal, Kor N Seal, or equal. The joint shall provide a flexible, watertight connection between pipe and manhole. Manhole connections for storm sewer mains and leads may be made with cast-in-place concrete during completion of manhole interior in lieu of above.
6. Manhole bottoms for sanitary sewer shall be monolithically precast with the bottom section for manholes up through 6-foot diameter. Bottoms for larger diameter manholes shall be precast but need not be monolithically cast with the bottom section. All other manhole bottoms shall be either poured in place or precast concrete.

7. Manhole bottoms for air release manholes, force main cleanout manholes and water system valve manholes shall have an 18-inch diameter sump hole. Sump hole shall have a solid concrete bottom where groundwater is above the bottom of the manhole.
8. Manholes shall be furnished of minimum diameters. Manholes shall be furnished large enough to provide a minimum distance, between adjacent pipe, measured tangentially along the inside face of the manhole, equal to one half the outside diameter of the intersecting sewer pipe. In any event, manholes shall be furnished in the diameter necessary to accommodate intersecting sewer pipe and the pipe to manhole connection as proposed for use.
9. Steps shall be installed in all manholes by the manufacturer and shall be cast iron conforming to ASTM A48 or steel reinforced plastic conforming to ASTM A615, Grade 60 and ASTM D4101 with molded copolymer polypropylene covering conforming to ASTM D4101, Type PP200B33450Z02, or equal. Manhole steps shall be spaced 16 inches on center with an allowable tolerance of (plus or minus) 1 inch. Steps shall be inserted in manhole riser, cone, and flat slab sections prior to the initial set of the concrete in accordance with ASTM C478 and shall have maximum embedment and pullout resistance in accordance with ASTM C497. The top step shall be located 10 inches or less from the top of the manhole cone section or uppermost structure section. Manhole steps shall be Neenah Type R-1981-N, M.A Industries, Inc. PS1-PF, or equal.
10. Precast reinforced concrete manhole risers and tops shall be tested in accordance with ASTM C497. Precast reinforced concrete manhole risers and tops meeting the strength requirements will be considered acceptable and shall be stamped with an appropriate monogram. When requested, copies of test reports shall be submitted to ENGINEER before the manhole sections are installed in the Project. Final acceptance will be made after field inspection upon delivery to the jobsite.
11. Precast reinforced concrete manhole sections shall be subject to rejection for failure to conform to any of the requirements of the Standard Specifications. In addition, individual sections of manhole risers and tops may be rejected because of any of the following reasons:
    a. Fracture or cracks passing through the wall, except for a single end crack that does not exceed the depth of the joint.
    b. Defects that indicate imperfect proportioning, mixing, and molding.
    c. Surface defects indicating honey combed or open texture.
    d. Damaged ends, where such damage would prevent making a satisfactory joint.
    e. Manhole steps out of line, or not properly spaced.
    f. Noticeable infiltration into manhole.
    g. Variation in diameter of the manhole section of more than 1% from the nominal diameter.
    h. Any continuous crack having a surface width of 0.01 inch or more and extending for a length of 12 inches or more regardless of position in the section wall.

I. Each precast reinforced concrete manhole riser and top section shall be clearly marked with the name or trademark of the manufacturer and the date of manufacture. This marking shall be indented into the manhole section or shall be painted thereon with waterproof paint.

J. Storm Sewer Inlets: All inlets shall meet the requirements of ASTM C913.

K. Manhole and Inlet Castings:
1. All manhole and inlet castings shall be gray iron and meet the requirements of Section 602 of the Standard Specifications and ASTM A48. Unless otherwise shown on

the Drawings, standard manhole castings shall be Neenah R1713 with machined frame, Type B solid lid, concealed pick holes and self-sealing gaskets. Floodproof castings shall be Neenah R1916 C with machined frame, type B solid lid, concealed pick holes and self-sealing gaskets.

2. Inlet castings for locations with curb and gutter shall be Neenah R3281-AL on slopes, and Neenah R-3281-A at low points.
3. Frames for valve manholes shall be Neenah R-1713 with Type B lid, with two concealed pickholes equipped with self-sealing gaskets.
4. Catch basin grates shall be Neenah R-1713 with machined frame and Type D open grate. Type 8 (i.e., beehive) grates shall be Neenah R-4340-B with machined frame.
5. All solid lids shall have “Village of Winnetka” embossed on them with the specific utility identified “Water,” “Storm,” or “Sanitary.”

L. Mortar: Mortar shall meet the requirements of ASTM C270. Mortar shall be one part Portland cement and 2 1/4 parts washed mortar sand.

M. Preformed Flexible Joint Sealant: Preformed flexible joint sealant shall be EZ Stik, Kent Seal, Ram Nek, or equal, meeting the requirements of ASTM C990.

N. O-Rings: O-rings shall meet the requirements of ASTM C443.

2.03 BURIED PIPING

A. Ductile Iron Piping and Fittings:

1. Unless otherwise shown or specified, all underground piping 3 inches in diameter or larger shall be ductile iron conforming to AWWA C151/A21.51 with mechanical joints or push-on joints. Pipe wall thickness shall be furnished as required by AWWA C150 for buried piping with the depth of cover as shown on the Drawings for laying condition 4, minimum Special Thickness Class or Pressure Class as listed below, unless otherwise shown or specified.

Pipe Size (Inches)	Special Thickness (Class)
3	55
4	55
6	55
8	55
10	55
12	55
14	55
16	55
18	55
20	---

2. Each pipe and fitting shall have the class or nominal thickness, country where cast, casting period, manufacturer’s mark, the year in which the pipe was produced, and the letters DI or DUCTILE cast or stamped thereon. Improper or incomplete marking will be cause for rejection of the pipe or fitting.
3. CONTRACTOR shall furnish certification data representing each class of pipe or fitting furnished. The certification report shall clearly state that all pipe and fittings furnished meet the appropriate AWWA specification. Ductile iron pipe shall consist of pipe

centrifugally cast in metal or sand-lined molds. Pipe wall shall be homogeneous from inside to outside and shall be completely free of laminations, blisters, or other imperfections. Defects may be removed at the factory only.

4. Except as otherwise specified, underground pipe shall have mechanical joints or push-on joints conforming to AWWA C110 and C111, as well as AWWA C153 (compact), with vulcanized styrene butadiene rubber gaskets conforming to AWWA C111. Gaskets that include metal locking segments vulcanized into the gasket to grip the pipe and provide joint restraint are not acceptable. Bolts on mechanical joints shall be ASTM A240 stainless steel, conforming to AWWA C111 and ANSI A21.11. Certificate to that effect shall be provided.
5. For ductile iron pipe systems requiring pressure testing, restrained joints shall be provided in accordance with Part 3–Execution. Mechanical joints shall be restrained with MEGALUG® Series 1100 or 1100 SD, by EBAA Iron Sales, Inc., UNIFLANGE Series 1400 by Ford Meter Box Co., Inc., or equal, restraint. Push-on joints for ductile iron piping shall be restrained with MEGALUG® Series 1700 or 1100 HD, by EBAA Iron Sales, Inc., UNIFLANGE Series 1450 by Ford Meter Box Co., Inc., Flex-Ring or Lok-Ring by American Cast Iron Pipe Company, TR Flex by U.S. Pipe Company, or equal.
    a. Pipe restraint fittings shall be provided as follows:
        (1) For ductile iron pipe with ductile iron mechanical joints MEGALUG® Series 1100 or 1100SD by EBAA Iron Sales, Inc.; or equal.
        (2) For ductile iron pipe with ductile iron push on joints MEGALUG® Series 1100HD or 1700 by EBAA Iron Sales, Inc; Series; Flex Ring or Lok Ring by American Cast Iron Pipe Company; TR Flex by U.S. Pipe Company; or equal.
        (3) For PVC pipe with ductile iron mechanical joint fittings–MEGALUG® Series 2000 PV, 1100SV, or 2000SV by EBAA Iron Sales, Inc.; or equal.
        (4) For PVC pipe with PVC push on joints (not solvent welded)–MEGALUG® Series 1100HV, 1900, or 2800 by EBAA Iron Sales, Inc.; or equal.
    b. Gland body, wedges, and wedge actuating components shall be ductile iron conforming to ASTM A536 Grade 65 45 12. Bolts and tie rods shall be ASTM A240 stainless steel conforming to AWWA C111.
    c. Gaskets that include metal locking segments vulcanized into the gasket to grip the pipe to provide joint restraint are not acceptable.
6. Joint restraint is not required for gravity sewers, drains, and those pipes designated in Paragraph 3.02.G.1. Infiltration/Exfiltration Tests.
7. Underground pipe shall have mechanical joint or push-on joint ductile iron fittings conforming to AWWA C110 and C111 or AWWA C153 compact fittings with a minimum rated working pressure of 150 psi. Gaskets for fittings shall be as specified for underground piping.
8. All ductile iron fittings shall be American Cast Iron Pipe, Tyler Union, U.S. Pipe, or equal.
9. Ductile iron wall pipes shall be provided as shown on the Drawings. For piping over 24 inches that does not require restraints, wall pipes shall be provided with push-on joint connection at exterior end of wall pipe. For piping over 24 inches that requires restraint, wall pipes shall be provided with Flex Ring or Lok Ring by American Ductile Iron Pipe Company, TR Flex by U.S. Pipe Company, or equal, connection. For piping over 24 inches, wall pipes may also be provided with mechanical joint connection at exterior end of wall pipe. For piping that requires restraint, mechanical joint connections at exterior end of wall pipe shall be restrained as specified for mechanical joints.
10. Unless otherwise specified, all exterior ductile iron piping and fittings shall be cement-mortar lined and asphaltic-coated inside. Cement-mortar lining shall be in

accordance with AWWA C104. Unless otherwise specified, underground piping and fittings shall be shop primed or asphaltic-coated outside. Asphaltic coating shall conform to applicable standards herein for the pipe and fittings.

11. For potable water systems, the outside pipe coating shall comply with AWWA C151. Lining and coatings shall be suitable with potable water systems. The asphaltic coating shall be applied over the cement lining on the inside of the pipe and directly on the outside of the pipe. The coatings shall be smooth and impervious to water without any tendency to scale off.
12. Piping and fittings for installation in manholes, wet wells or other such structures, and elsewhere exterior as shown on the Drawings or specified shall be flanged and provided as specified in Section 40 05 00–Piping and Appurtenances.
13. All buried ductile iron piping and appurtenances shall be polyethylene encased in accordance with AWWA C105. Polyethylene encasement shall be Class C (carbon black) and shall be minimum 8 mil thickness. Tape for securing the film shall be a thermoplastic material with a pressure sensitive adhesive face capable of bonding to metal, asphaltic coating, and polyethylene. Tape shall have a minimum thickness of 8 mils and a minimum width of 1 inch. The polyethylene film envelope shall be as free as is commercially possible of gels, streaks, pinholes, particles of foreign matter, and undispersed raw materials. There shall be no other visible defect, such as holes, tears, blisters, or thinning out at folds. For buried pipe polyethylene encasement shall be V-BIO polyethylene encasement and shall meet ANSI/AWWA C105-A21.5 Polyethylene Encasement for Ductile Iron Pipe. V-BIO to include an anti-microbial Biocide as well as a corrosion inhibitor. Specifications to include 8 mil thickness, tensile strength of 3,600 psi per ASTM D882, elongation of 800% min per ASTM D882, and dielectric strength of 800 V/mil thickness per ASTM D149. Installation of V-BIO polyethylene encasement shall be per ANSI/AWWA C105-A21.5 Polyethylene Encasement for Ductile Iron Pipe.
14. Cutting in and Repair Tees and Sleeves and Tapping Tees: Cutting-in and repair tees and sleeves and tapping tees shall be of ductile or cast iron with the same rated working pressure of the pipe in which they are installed but no less than 150 psi.
15. Exterior Joints, Fittings, and Gaskets: Joints, fittings, and gaskets shall have the same rated working pressure of the pipe in which they are installed but no less than a minimum rated working pressure of 150 psi.

B. Reinforced Concrete Pipe:

1. Reinforced concrete pipe for storm sewer shall meet the requirements of ASTM C76 for circular pipe, ASTM C507 for elliptical pipe, ASTM C655 for D-load pipe, or ASTM C1433 for box culvert pipe. All pipes shall have a smooth interior wall. Strength and class of the pipe shall conform to the Drawings and as specified herein. All reinforced concrete pipe used in the work shall be of adequate strength to support the trench loads applied. Unless otherwise shown or specified, all reinforced concrete pipe shall be Class IV minimum and shall have a minimum “B” wall construction. All reinforcing cages shall be circular for circular pipe. All reinforcing cages shall be elliptical for elliptical pipe. Reinforcing cage shall extend to the full width into the bell end of the pipe and to within 1 inch of the spigot end of the pipe.
2. Standard and special fittings shall be of approved manufacturer and shall conform to requirements of the trade and these specifications. All fittings shall be of a strength at least equal to that of the sewer main and shall be jointed with the same type of joint as used in the sewer main.
3. Not more than one lift hole per length of pipe shall be used in storm sewer.
4. Reinforced concrete pipe and fittings shall be provided with joints and gaskets that meet ASTM C1628 for sanitary sewer pipe and ASTM C443 or ASTM C361 for storm sewer

pipe. Joints for sanitary sewer shall be sealed with rubber gaskets of either continuous O-ring. Joints for circular and elliptical storm sewer shall be sealed with rubber gaskets having a continuous O-ring cross section, Tylox Superseal, or equal. All pipe shall be specifically built to fit the gasket used. Provide precast concrete endwalls on all storm sewers.

5. Nonstandard pipe lengths may be used at manholes and structures as necessary to allow them to be located at the locations identified on the Drawings. Reinforced concrete bends, tees, and reducers shall be manufactured to provide for the required transitions as shown on the Drawings. Sufficient additional reinforcement shall be added at the spring lines and top and bottom of the pipe to prevent shearing after installation. Repairs to complete fabricated pipe fittings shall be such that the completed unit shall have the same strength as that of the remainder of the pipe barrel and the concrete used to complete the section shall not spall or separate.
6. Acceptance of reinforced concrete pipe shall be on the basis of plant load-bearing tests, material tests, and inspection of manufactured pipe for visual defects and imperfections.
7. Cement used in the manufacture of reinforced concrete pipe shall meet the requirements of ASTM C150, Standard Specification for Portland Cement for Type II cement.
8. A three-edge bearing test shall be conducted by the manufacturer according to ASTM C497 as proof of design by determining the ultimate load capacity of the pipe. One segment of pipe from each pipe class must pass the three-edge bearing test such that the load required to produce the ultimate load exceeds the load rating of the pipe. The test results shall be maintained in a log and provided to OWNER. Manufacturer shall also maintain concrete cylinder testing data and quality control records to verify that pipe meets the required ASTM standards.
9. An alkalinity test shall be conducted on the concrete mixture used for each type and class of reinforced concrete pipe used in the Project. The alkalinity test shall be conducted according to ASTM C497 and the alkalinity of all concrete mixtures shall be equal to or greater than 0.2 grams of $CaCO_3$ equivalent reactivity per gram of concrete. The manufacturer shall complete the alkalinity tests.
10. The costs of the tests shall be incidental to the pipe cost. CONTRACTOR shall include all such costs in the price bid for the Work. CONTRACTOR shall submit a signed, dated, and certified copy of the test data to OWNER (in a format acceptable to OWNER) for review prior to delivering any pipe to the Project site. No additional compensation will be made to CONTRACTOR for the required testing.
11. The pipe leakage shall not exceed 150 gallons/day/inch inside diameter/mile of pipe. The manufacturer shall provide a written and signed statement indicating the pipe meets this criterion.
12. CONTRACTOR shall provide written certification that pipe meets the standards herein.

C. Solid Wall PVC:

1. Polyvinyl chloride (PVC) pipe shall meet the requirements of ASTM D3034 for pipe sizes 4 inches through 15 inches and ASTM F679 for pipe sizes 18 inches through 60 inches.
2. PVC material for ASTM D3034 pipe shall have cell classification 12454 or 12364 as defined in ASTM D1784 with minimum modulus of elasticity of 400,000 psi. Pipe stiffness shall be minimum 46 psi when tested in accordance with ASTM D2412. Pipe shall have a maximum standard dimension ratio (SDR) of 35.
3. PVC material for ASTM F679 pipe shall have cell classification 12454 or 12364 as defined in ASTM D1784 with a minimum modulus of elasticity of 500,000 psi. Pipe stiffness shall be a minimum 115 psi when tested in accordance with ASTM D2412.

4. Pipe and fittings shall be the product of one manufacturer, and the manufacturer shall have experience records substantiating acceptable performance of the pipe and fittings to be furnished. The minimum wall thickness of fittings shall be the same as the pipe to which it connects.
5. Acceptance of piping and fittings shall be subject to tests conducted in accordance with ASTM D3034 and/or ASTM F679.
6. Fittings such as saddles, elbows, tees, wyes, and others shall be of material and construction corresponding to and have a joint design compatible with the adjacent pipe. Approved adapters shall be provided for transitions to other types of pipe.
7. Joints shall be of the elastomeric type for pipes 4 inches or larger and elastomeric or solvent cement for pipes less than 4 inches.
8. Elastomeric joints shall be a bell and spigot joint conforming to ASTM D3212 sealed by a rubber gasket conforming to ASTM F477 so that the assembly will remain watertight under all conditions of service, including the movements resulting from the expansion, contraction, settlement, and deformation of the pipe. Bells shall be formed integrally with the pipe and shall contain a factory-installed positively restrained gasket.
9. Solvent cement joints shall be assembled using solvent cement obtained from the pipe manufacturer, which conforms to the requirements of ASTM D2564.
10. The assembled joint shall pass the performance tests as required in ASTM D3212.

D. Gravity Sanitary Sewer Service Branches and Laterals:
1. Branches (tees and wyes) shall be of the same material as the main except for reinforced concrete pipe used for sanitary sewer. For reinforced concrete pipe, special branches shall be furnished and installed to accept the lateral. Such special branches are subject to review by ENGINEER.
2. If a different thermoplastic material is specified for laterals than for the main line, appropriate solvent welds, fittings, transition couplings, and other appurtenances shall be provided to effect a water tight seal.
3. Fittings for laterals shall be of the same material as the lateral pipe unless special fittings are needed for transition between material types or sizes or standard fittings are not manufactured.
4. Where the wye or tee branches and laterals are of dissimilar materials, CONTRACTOR shall provide a transition coupling for the connection.
5. All fittings used, including type of jointing, are subject to review by ENGINEER.

E. Force Main:
1. Force main pipe shall be PVC piping, Pressure Class 235 psi, DR 18, meeting the requirements of AWWA C900 or AWWA C905.
2. Markings on the pipe shall include the following: Nominal pipe size, type of plastic pipe material, DR number, AWWA designation with which the pipe complies, and manufacturer’s name.

F. PVC Pipe (AWWA) and PVC Pressure Pipe Fittings (4 Inches and Larger):
1. PVC water main shall be AWWA PVC pressure-rated pipe and shall conform to the requirements of AWWA C900 for pipe from 4 inches to 60 inches. Pipe shall be furnished with integral elastomeric bell and spigot joints.
2. PVC pipe diameter shall conform to ductile iron pipe sizes (DIPS). The type of PVC material, nominal pipe size, standard dimension ratio, and pressure class shall be not less than pressure class 235 and not greater than pipe dimension ratio 18.
3. Markings on pipe shall include the following: Nominal pipe size, type of plastic pipe material, DR number, AWWA Designation with which the pipe complies, manufacturer’s

name, and the seal or mark of the laboratory making the evaluation of the suitability of the pipe for transport of potable water.

4. All fittings for PVC pressure pipe shall be iron pipe fittings as specified herein.
5. Provide tracer wire for underground PVC piping as specified herein, unless otherwise noted.

G. Transition Couplings for Gravity Sewer Service: Transition couplings shall be provided to join dissimilar pipe materials or to connect pipe where a standard pipe joint cannot be provided. Couplings shall be designed to join the pipe materials matching flow line elevations. Transition couplings for gravity sewer service shall be Fernco 5000 RC Strongback, Mission Flex Seal ARC Shielded, or equal. Shear rings shall be provided to minimize differential settlement. All bands, clamps, shear rings and other metal components shall be stainless steel. Bushings or transitions shall be provided to accommodate pipe size differences. Costs shall be included with the sewer being installed.

H. Miscellaneous Pipe:

1. Piping needed for repair or reconstruction of existing utilities and appurtenances shall be of the same type and strength as the existing. The type of jointing used in repair and reconstruction shall be reviewed by ENGINEER. Special fittings shall be furnished and installed as necessary for repair, reconstruction, or connection of existing facilities.
2. All special fittings on or for connection to utilities shall be specifically built for the type of gasket used. Special fittings shall have joints of the same type as the utility to which the connection is being made.
3. When sanitary sewer construction is within 50 feet of a potable well, 200 feet of a municipal well, or as requested by ENGINEER, a water main equivalent pipe shall be used. To transition from water main equivalent pipe to pipe normally supplied, a transition pipe with suitable joints to mate the two different pipes shall be supplied. No field constructed transitions will be allowed unless reviewed by ENGINEER and approved by OWNER. Construction shall not proceed until proper transition pipe is supplied.

I. Clay Pipe: Vitrified clay pipe and fittings shall conform to ASTM C700. Pipe and fittings shall be extra strength. Joints shall be compression type joints conforming to ASTM C425.

2.04 VALVES (VALVES FOR UNDERGROUND SERVICE ARE SPECIFIED IN DIVISION 40)

A. Valves shall conform to Section 40 05 00–Piping and Appurtenances.

2.05 CONCRETE

A. All concrete poured under this Contract, unless shown or specified otherwise, shall conform to the requirements of the Standard Specifications.

PART 3–EXECUTION

3.01 INSTALLATION

A. Underground Piping:

1. Utility lines shall be laid and installed to the lines and grades specified with valves, fittings, manholes, and other appurtenances at the specified locations; spigots centered in bells; and all manholes and riser pipes plumb. Water main and force main shall be

installed at the depth indicated. Gravity sewer mains and laterals shall be at the elevations shown on the Drawings. Water main, force main, and other pressure mains shall be installed to within (plus or minus) 0.1 feet of designed grades. Sanitary and storm sewer and laterals shall be installed to within (plus or minus) 0.03 feet of designed grades. Service lines shown on the Drawings are approximate. CONTRACTOR shall perform staking and layout required for all construction operations.

2. Deviations Occasioned by Underground Facilities: Wherever significant obstructions not shown on the Drawings are encountered during the progress of the Work, CONTRACTOR shall proceed in accordance with the Contract to notify owners and protect the facilities. Existing items unnecessarily damaged during the performance of the Work shall be repaired and replaced at the expense of CONTRACTOR.
3. Prior to commencing pipe laying, CONTRACTOR shall notify ENGINEER of the intended date for starting Work. ENGINEER may request at CONTRACTOR's expense the removal and relaying of pipe which was installed prior to notification of ENGINEER.
   a. Proper implements, tools, and facilities shall be provided and used by CONTRACTOR for the safe and convenient prosecution of the Work. All pipe, fittings, and appurtenances shall be carefully lowered into the trench piece by piece with a crane, rope, or other suitable tools or equipment, in such manner as to prevent damage to materials. Under no circumstance shall pipe be dropped or rolled into the trench.
   b. Materials shall be as shown on the Drawings or as specified herein.
4. Material Inspection: CONTRACTOR shall inspect the pipe, fittings, and appurtenances for defects when delivered to the jobsite and prior to lowering into the trench. Defective material shall be removed from the jobsite. All material shall be clean and free of deleterious substances prior to use in the Work.
5. Except where noted or specified, all ductile iron and PVC underground piping shall be laid in accordance with AWWA C600 or AWWA C605 with the conditions that (a) blocking shall not be used to support pipe and (b) all bends and fittings shall be restrained as specified below, and pipe joints shall be restrained in all directions from all bends and fittings to the length as specified below.
6. Pipe Length:
   a. All existing joints exposed during construction that are to remain in place shall be restrained.
   b. The minimum length of pipe to be restrained shall be as shown in the following table, regardless of bury depth.
   c. This table assumes fitting orientation as noted, 200 psi test pressure, a 1.5 factor of safety, Type CL native soil backfill, standard bedding, compaction of backfill at 80% standard proctor, AASHTO T-99 (Type 4 trench condition), and a 5-foot bury. Lengths shall be adjusted for other conditions and fittings. For other fittings and for more specific requirements, see the Drawings:

Required Joint Restraint Distance from Fittings (ft)

Ductile Iron Pipe						
Bends, Valves, Dead Ends, and Hydrant Leads	4-IN	6-IN	8-IN	10-IN	12-IN	16-IN
Horizontal 90-Degree Bend (restrain both sides)	11	15	20	23	28	36
Horizontal 45-Degree Bend (restrain both sides)	10	10	10	10	12	15
Horizontal 22 1/2-Degree Bend (restrain both sides)	10	10	10	10	10	10

Ductile Iron Pipe						
Horizontal 11 1/4-Degree Bend (restrain both sides)	5	5	5	5	5	5
*Vertical 45-Degree Bend (upper and lower bend distance)	10	14	19	23	27	35
*Vertical 22 1/2-Degree Bend (upper and lower bend distance)	5	7	9	11	13	17
*Vertical 11 1/4-Degree Bend (upper and lower bend distance)	5	5	5	6	7	9
Valve or Dead End	18	25	33	40	48	62
Fire Hydrant Leads	Restrain All Joints					

	Tee Run Dimension		OR	Larger End of Reducer Dimension		
Tees and Reducers	4-IN	6-IN	8-IN	10-IN	12-IN	16-IN
**Tee 6-Inch Branch (branch restrain length)		5	5	5	5	5
**Tee 8-Inch Branch (branch restrain length)			10	5	5	5
**Tee 10-Inch Branch (branch restrain length)				17	12	5
**Tee 12-Inch Branch (branch restrain length)					24	16
**Tee 16-Inch Branch (branch restrain length)						45
Reduce to 4 Inches (larger side restrain length)		13	24	33		
Reduce to 6 Inches (larger side restrain length)			14	25	35	
Reduce to 8 Inches (larger side restrain length)				14	26	46
Reduce to 10 Inches (larger side restrain length)					14	37
Reduce to 12 Inches (larger side restrain length)						27

*Restrain all fittings between the start and end of the offset and on the mainline as shown in the table.
**Minimum 8-foot restrain run on each side of the tee.

Required Joint Restraint Distance from Fittings (ft)

Ductile Iron Pipe with Polyethylene Wrap						
Bends, Valves, Dead Ends, and Hydrant Leads	4-IN	6-IN	8-IN	10-IN	12-IN	16-IN
Horizontal 90-Degree Bend (restrain both sides)	14	19	25	30	36	46
Horizontal 45-Degree Bend (restrain both sides)	6	8	11	13	15	19
Horizontal 22 1/2-Degree Bend (restrain both sides)	5	5	5	6	8	10
Horizontal 11 1/4-Degree Bend (restrain both sides)	5	5	5	5	5	5
*Vertical 45-Degree Bend (upper and lower bend distance)	22	31	41	49	58	75
*Vertical 22 1/2-Degree Bend (upper and lower bend distance)	11	15	20	24	28	36

Ductile Iron Pipe with Polyethylene Wrap						
*Vertical 11 1/4-Degree Bend (upper and lower bend distance)	6	8	10	12	14	18
Valve or Dead End	53	74	97	117	139	179
Fire Hydrant Leads	Restrain All Joints					
	Tee Run Dimension		OR	Larger End of Reducer Dimension		
Tees and Reducers	4-IN	6-IN	8-IN	10-IN	12-IN	16-IN
**Tee 6-Inch Branch (branch restrain length)		5	5	5	5	5
**Tee 8-Inch Branch (branch restrain length)			28	10	5	5
**Tee 10-Inch Branch (branch restrain length)				47	34	5
**Tee 12-Inch Branch (branch restrain length)					69	45
**Tee 16-Inch Branch (branch restrain length)						109
Reduce to 4 Inches (larger side restrain length)		38	70	120		
Reduce to 6 Inches (larger side restrain length)			41	72	101	
Reduce to 8 Inches (larger side restrain length)				40	74	131
Reduce to 10 Inches (larger side restrain length)					41	106
Reduce to 12 Inches (larger side restrain length)						76
*Restrain all fittings between the start and end of the offset and on the mainline as shown in the table. **Minimum 8-foot restrain run on each side of the tee.						

Required Joint Restraint Distance from Fittings (ft)

PVC C-900 Pipe						
Bends, Valves, Dead Ends, and Hydrant Leads	4-IN	6-IN	8-IN	10-IN	12-IN	16-IN
Horizontal 90-Degree Bend (restrain both sides)	14	19	25	30	36	46
Horizontal 45-Degree Bend (restrain both sides)	6	8	11	13	15	19
Horizontal 22 1/2-Degree Bend (restrain both sides)	5	5	5	6	8	10
Horizontal 11 1/4-Degree Bend (restrain both sides)	5	5	5	5	5	5
*Vertical 45-Degree Bend (upper and lower bend distance)	22	31	41	49	58	75
*Vertical 22 1/2-Degree Bend (upper and lower bend distance)	11	15	20	24	28	36
*Vertical 11 1/4-Degree Bend (upper and lower bend distance)	6	10	10	12	14	18
Valve or Dead End	53	74	97	117	139	179
Fire Hydrant Leads	Restrain All Joints					
	Tee Run Dimension		OR	Larger End of Reducer Dimension		
Tees and Reducers	4-IN	6-IN	8-IN	10-IN	12-IN	16-IN

PVC C-900 Pipe						
**Tee 6-Inch Branch (branch restrain length)		5	5	5	5	5
**Tee 8-Inch Branch (branch restrain length)			28	10	5	5
**Tee 10-Inch Branch (branch restrain length)				47	34	5
**Tee 12-Inch Branch (branch restrain length)					69	45
**Tee 16-Inch Branch (branch restrain length)						109
Reduce to 4 Inches (larger side restrain length)		38	70	95		
Reduce to 6 Inches (larger side restrain length)			41	72	101	
Reduce to 8 Inches (larger side restrain length)				40	74	131
Reduce to 10 Inches (larger side restrain length)					41	106
Reduce to 12 Inches (larger side restrain length)						76
*Restrain all fittings between the start and end of the offset and on the mainline as shown in the table. **Minimum 8-foot restrain run on each side of the tee.						

7. Force main and water main shall be installed in accordance with AWWA C600 for iron pipe, AWWA C605 for PVC pipe, and AWWA M55 for HDPE pipe. All plugs, caps, tees, hydrants, bends, and other fittings for water mains and force mains shall be provided with restrained joints.
8. PVC sewer and plant drain piping shall be installed in accordance with ASTM D2321. Except where noted or specified, PVC or other thermoplastic pressure piping shall be installed in accordance with ASTM D2774.
9. Except where noted or specified, reinforced concrete pipe shall be installed in accordance with Section 550 of the Standard Specifications.
10. Plumbing system shall be installed and tested in accordance with local and state plumbing code requirements. Where requirements conflict, the stricter standard shall apply.
11. CONTRACTOR shall lay all gravity pipe to the line and grade shown on the Drawings with bell ends uphill wherever possible. If not possible, CONTRACTOR shall lay pipe to the line and grade shown on the Drawings with bell ends in the direction of laying. Force main piping shall have a minimum of 3.5 feet of cover. Unless shown otherwise, drainage piping shall clear floor slabs or footings by a minimum of 6 inches.
12. Any pipe or fittings cracked in cutting or handling or otherwise not free from defects shall not be used. Pipe must be kept clean of mortar, cement, clay, sand, or other material. When PVC piping is installed during hot weather, it shall be laid in the trench with slack or permitted to cool to ground temperature before it is cut to length for making final connections. PVC expansion joints shall be provided where needed.
13. At times when pipe laying is not in progress, the open ends of pipe shall be closed with plugs to prevent the entry of foreign material. Acceptable plugs include Foreman Nite Caps by APS, mechanical joint cap or plug, bladder plug, or test plug. All foreign material shall be removed from the pipe prior to acceptance.
14. The locations and elevations of existing piping and manholes are approximate. Where necessary, existing piping shall be exposed by CONTRACTOR to confirm location and

elevation before installing new piping. Any changes in pipe location or elevation shall be approved by OWNER.

15. General Excavation:
    a. Pipe Laying:
        (1) All pipe shall be laid accurately to the line and grade as designated. Preparatory to making pipe joints, all surfaces of the portions of the pipe to be joined or of the factory made jointing material shall be clean and dry. Lubricants, primers, adhesives, and other joint material shall be used and installed as recommended by the pipe or joint manufacturer's specifications. The jointing materials or factory fabricated joints shall then be placed, fitted, joined, and adjusted in such a workmanlike manner as to obtain the degree of watertightness specified. Pertinent specifications from the joint and pipe manufacturer which outline procedures to be followed in making the joint shall be furnished to ENGINEER.
        (2) Wyes, tees, and special fittings shall be installed as called for on the Drawings, or as requested by ENGINEER. Wyes, tees, and special fittings, shall, in general, be jointed with the same type of joint as used in the pipe.
        (3) In joining two dissimilar types of pipe, manufactured adapters and fittings shall be used. Adapters and fittings shall be configured to maintain invert elevations at same level.
        (4) Joint deflections shall not exceed the limits established by the pipe manufacturer for the pipe and joint being used.
        (5) Joints that are damaged because of carelessness, improper handling, or failure to prevent imperfections in manufacture shall be subject to rejection and gaskets shall be subject to rejection whenever they show surface cracking, tears, or splice separation.
        (6) At times when pipe laying is not in progress, the open ends of pipe shall be closed with plugs to prevent the entry of foreign material. All foreign material shall be removed from the pipe prior to acceptance.
        (7) After placing a length of pipe in the trench, the spigot end shall be centered in the bell and the pipe forced home and brought to correct line and grade. The pipe shall be secured in place with specified backfill material tamped around it except at the bells.
        (8) Pipe shall be brought home by using a cross member and levers or jacks. It will not be permissible to push pipe home with motor powered excavation equipment.
        (9) Force main and water main shall be installed in accordance with AWWA C600 for iron pipe, AWWA C605 for PVC pipe, and AWWA M55 for HDPE pipe. All plugs, caps, tees, hydrants, bends, and other fittings for water mains and force mains shall be provided with restrained joints.
    b. Manholes:
        (1) Manholes shall be installed in accordance with Village of Winnetka Standard Details and Section 602 of the Standard Specifications. Manholes shall be plumb with any steps aligned and openings located over steps. For sanitary sewers, openings shall be located over the bench and not the sewer flow line itself.
        (2) All manholes shall be made watertight and shall show no visible signs of leakage at the time of final review and within the correction period. Any leakage shall be sealed from the exterior of the manhole.
    c. Abandoning Utilities: Utilities to be abandoned shall, unless otherwise noted on the Drawings**,** be abandoned in place. All removal of existing manholes, catch basins,

and inlets shall conform to Section 605 of the Standard Specifications. Open ends of pipes shall be plugged with 12 inches of concrete. Manhole barrels, valve boxes and other such structures shall be removed to a point 3 feet below existing or final ground surface, whichever is lower, and shall then be filled with backfill material compacted to that of the trench backfill. An approximate 9-inch-diameter opening shall be made in the bottom of the structure to allow for groundwater movement.

d. Connections to and Modifications of Structures and Mains:
   (1) Unless otherwise noted on the Drawings, openings in existing structures to allow for connection of mains shall be core drilled, and the mains themselves shall be connected by use of watertight connections as specified in the Standard Specifications. Flow channels in the bottoms of existing structures shall be modified as necessary to provide smooth transition for incoming flow and/or orientation of mains. These modifications may include breaking out and reforming flow channels.
   (2) Where mains, new and existing, are to intersect, dog house manholes shall be provided to facilitate connection and to gain access to the intersecting mains. Manholes shall be provided at the manufacturing plant with arched openings in lower barrel section to span each of the intersecting mains. Reinforcing shall be cut and bent back. In the field, manhole shall be set on concrete blocks, with reinforcing provided according to Village of Winnetka Standard Details for the bottom slab. Concrete shall be poured under and around the manhole to seal all openings, cover and adhere to the slab and bent reinforcement, and provide for benches or fillets in the manhole. Sanitary and storm sewer mains shall be kept intact until the bench or fillet is poured. Then the top of pipe to springline shall be removed to provide access.

3.02 FIELD QUALITY CONTROL

A. CONTRACTOR shall include the cost of all televising, testing, cleaning, and disinfection in the price bid.

B. Work shall be tested as specified in this section. Unless indicated in writing before testing begins, tests shall be witnessed by ENGINEER and others as necessary. Test results shall be recorded, and reports or appropriate certificates shall be submitted to ENGINEER in triplicate.

C. New piping shall be tested. Prior to conducting the pressure and leakage test, CONTRACTOR shall backfill the trench for its full depth. All bends and special connections to the main shall be adequately blocked and tied prior to the test. Any damage caused to the main or its appurtenances during performance of these tests shall be corrected by CONTRACTOR at its expense. Should underground piping fail test, CONTRACTOR shall be responsible for removal and replacement of backfill, and relay new pipe if necessary, to repair the defective pipe. Under no circumstances shall defects be sealed from the interior of the pipe, and only where specifically allowed by ENGINEER, shall defects be sealed from the exterior of the pipe. Piping, interior or exposed, shall be subject to test before being covered with insulation or paint. Piping and appurtenances shall be watertight or airtight and free from visible leaks. Manholes and precast reinforced concrete wet wells and appurtenances shall be free of any visible leaks. Any leakage shall be sealed by methods acceptable to OWNER, from the exterior of the manhole or structure. Precast reinforced concrete manhole risers and tops shall be tested in accordance with ASTM C497.

D. Piping shall be flushed or blown out after installation prior to testing. CONTRACTOR shall provide all necessary piping connections, water, air, test pumping equipment, water meter, bulkheads, valves, pressure gauge and other equipment, materials, and facilities necessary to complete the specified tests. CONTRACTOR shall provide all temporary sectionalizing devices and vents for testing.

E. All testing shall be performed before curb and gutter or other permanent-type surface improvement work begins.

F. OWNER and ENGINEER shall be notified at least 24 hours prior to any tests.

G. Pressure Tests:
   1. Pressure tests shall be performed as required by AWWA C600 and AWWA C605, unless otherwise noted herein.
   2. When test medium for piping is water, all air shall be removed from piping by flushing, opening vents, loosening flanges, utilizing equipment vents and/or installation of corporations at high points in system. Test pumping equipment used shall be centrifugal pumps or other pumping equipment that will not place shock pressures on the main. Power plunger pumps will not be permitted for use on closed pipe systems. Pumps shall be disconnected during test periods. Presence or absence of air will be determined during pressurization of the piping system.
   3. The test pressure in all lines shall be held for two hours, during which time the leakage allowance shall not exceed that specified. In case repairs are required, the pressure test shall be repeated until the pipeline installation conforms to the specified requirements. Pumps, air compressors, instrumentation, and similar equipment shall not be subjected to the pressure tests.
   4. During performance of the hydrostatic pressure test, water main shall be subjected to a minimum pressure of 125 psi. Force main shall be tested to 200% of normal operating pressure in the main, but to no more than the pressure rating of the pipe.
   5. CONTRACTOR shall keep a record of all tests performed. These records shall show the individual lengths of main tested and test results.
   6. Where connections are made to existing mains, it shall be the responsibility of CONTRACTOR to provide the necessary hydrostatic tests on all new mains installed. This may necessitate, but is not limited to, the installation of temporary valves and restraint to isolate the new system from the existing system. All materials, Work, and equipment necessary for this Work shall be furnished by CONTRACTOR at its expense.
   7. All testing of pipelines shall proceed concurrently with installation. CONTRACTOR is encouraged to conduct daily preliminary testing of its Work.
   8. Water from disinfection testing shall not be discharged to a stream, creek, river, storm sewer tributary thereto, or to a navigable water without first neutralizing the chlorine residual in the water and complying with local, state, and federal laws thereto.
   9. Gauges used for testing shall have increments as follows:
      a. Tests requiring a pressure of 10 psi or less shall use a testing gauge having increments of 0.10 psi or less.
      b. Tests requiring a pressure of greater than 10 psi shall use a testing gauge having increments of 1 psi or less.

H. Prior to making final connection between new and existing piping, new piping shall be tested as specified above.

I. Infiltration/Exfiltration Tests:
   1. Leakage Testing:
      a. All sanitary sewer gravity mains and drains shall be tested for leakage after installation of laterals and placement of backfill. Leakage testing of thermoplastic and iron sanitary sewer gravity mains shall be conducted in accordance with ASTM F1417. Testing of clay sanitary sewer mains shall be in accordance with ASTM C828. Testing for concrete sanitary sewer mains shall be in accordance with ASTM C1214. CONTRACTOR shall keep a record of all tests performed. These records shall show the individual lengths of main tested and test results.
      b. Sewers 18 inches and larger may be tested for leakage by infiltration or exfiltration in lieu of vacuum testing. Concrete pipe shall be tested per ASTM C969 except as modified herein. If groundwater is 2 feet or more above the sewer, measurements will be taken to determine the rate of infiltration into the sewer. If groundwater is below 2 feet above the sewer, the stretch of sewer shall be plugged at its downstream end and water shall be placed inside the sewer to provide a minimum of 4 feet of head above the upstream end.
      c. Measurements will then be taken to determine the rate of leakage out of the sewer. CONTRACTOR shall furnish all labor and materials necessary for making the tests. The allowable leakage shall be as indicated below for final acceptance.
      d. At the conclusion of construction and before final acceptance of the Work, the downstream end of all sanitary sewer will be measured for infiltration. Allowable infiltration shall not exceed 100 gallons/inch of pipe diameter/mile/day for that portion of the Work under groundwater. If infiltration is exceeded, the leak or leaks shall be located and repaired.
      e. CONTRACTOR shall prepare all pipeline for testing and shall furnish all equipment, materials, tools, and labor necessary for performance of the tests. Equipment for the low pressure air test of gravity mains shall be equal in all operational aspects to that as furnished by Cherne Industries, Inc., United Survey, or equal.
      f. Test apparatus and gauges shall be located such that ENGINEER or OWNER do not have to enter a confined space to verify readings.
      g. Air and leakage testing of storm sewers will not be required.
   2. Deflection Testing:
      a. All PVC pipe used for gravity sanitary sewer shall be tested for vertical deflection. Maximum deflection after completion of backfilling shall be 5% of the inside pipe diameter. Testing shall not be started until trench backfill has been in place for 30 days. CONTRACTOR shall keep a record of all tests performed. These records shall show the individual lengths of main tested and test results. Deflection shall be measured by pulling a mandrel with a vertical diameter equal to 95% of the pipe inside diameter through the line, after thoroughly flushing the lines to be tested. The testing device shall be controlled using cables at both the upstream and downstream manholes. The testing device must pass freely through the sewer without the use of unreasonable force on the control cables. Any line that will not pass the test cylinder will not be accepted until the faulty sections have been removed and replaced and the line retested.
      b. Deflection testing of thermoplastic storm sewer shall be provided in accordance with the above requirements.

J. Manhole Testing:
   1. If required on the Drawings, sanitary sewer and process piping manholes shall be vacuum tested in accordance with ASTM C1244. Pipes entering the manhole shall be plugged and the seal inflated in accordance with manufacturer’s recommendations.

CONTRACTOR shall provide all required test apparatus, including vacuum pump and gauges.

2. Vacuum testing of storm sewer and other manholes will not be required.

K. Continuity Testing: CONTRACTOR shall provide all equipment, labor, and materials necessary to perform continuity testing of all ductile iron water mains installed. Tests shall be performed using an ohmmeter to demonstrate that electrical continuity exists across all joints. CONTRACTOR shall make all necessary repairs to establish continuity across joints.

3.03 CLEANING

A. All equipment and materials shall be clean before installation.

B. Upon completion of the work, all improvements disturbed by CONTRACTOR's operations shall be repaired or replaced. Broken concrete, rubble fill, and other excess material shall be removed from the site and wasted.

C. All waste disposal areas and all areas used for the storage of materials or the temporary deposit of excavated earth shall be leveled off, cleaned up, and returned to condition that existed prior to construction. All surplus material, tools, and equipment shall be removed, and the premises shall be left free of everything of the kind.

D. All pipes and manholes shall be flushed until clean, and all debris and mud shall be removed.

3.04 DEMOLITION

A. All exterior piping removals, including manholes and appurtenances and abandonment, shall be by CONTRACTOR. The locations and elevations of existing piping are approximate. Where necessary, existing piping shall be exposed before installing new piping. Any changes in pipe location or elevation shall be reviewed by ENGINEER.

B. CONTRACTOR shall remove or abandon all existing piping and appurtenances as noted. Unless otherwise shown or specified, piping and appurtenances to be removed shall become the property of CONTRACTOR and shall be removed from the site for salvage or disposal. Unless otherwise shown or specified, piping shown or specified to be abandoned shall have each end plugged with concrete or nonshrink grout. Nonshrink grout shall be as specified in Division 03. Wherever excavations cross piping to be abandoned, piping shall be removed to the limits of the excavation and the ends shall be filled as specified above.

C. Valve boxes and exposed valves and operators on piping to be abandoned shall be removed. All concrete surfaces to remain shall be patched as required to provide a smooth surface. Re-piping and connections to new piping shall be as specified for new piping.

END OF SECTION

SECTION 33 05 07

TRENCHLESS CONSTRUCTION

PART 1–GENERAL

1.01 SUMMARY

A. Work Included: Provide all utilities required through the use of trenchless construction techniques as shown on the drawings or as specified.

B. Unit Prices: The unit price for horizontal directional drilling, tunneling, boring, and jacking shall include all labor, materials, and equipment to complete the Work.

B. Measurement and Payment:
   1. Payment for horizontal directional drilling, tunneling, boring, and jacking shall be for work successfully performed.
   2. Measurement for horizontal directional drilling, tunneling, boring, and jacking will be based on the linear footage of pipe installed.

PART 2–PRODUCTS

2.01 PIPE AND APPURTENANCES

A. Polyvinyl Chloride (PVC):
   1. See Section 33 00 10–Buried Piping and Appurtenances, Paragraph 2.03.E for PVC pipe specifications.
   2. All PVC pipe shall be restrained at each joint within steel casing pipe.

PART 3–EXECUTION

3.01 HORIZONTAL DIRECTIONAL DRILLING

A. Where shown on the Drawings, horizontal directional drilling shall be provided using HDPE pipe.

B. A certificate of “Compliance with Specification” shall be furnished for all materials to be supplied.

C. CONTRACTOR may use a drilling fluid which is completely biodegradable. Clay based drilling fluids will also be allowed. Drilling fluid shall be subject to the review of OWNER. CONTRACTOR shall provide their own clean water for drilling fluid. At no time shall the drilling fluid be discharged to a surface water. This includes drilling fluid that may surface along the directionally drilled pipe route. CONTRACTOR shall provide other drilling fluids or procedures as needed to prevent a discharge of drilling fluids to surface waters at no additional cost to OWNER.

D. The boring unit shall have a tracking device that is capable of providing depth and location at all points of the boring path. Record Drawings showing horizontal and vertical locations of the conduit shall be created by CONTRACTOR based on the tracker information and submitted to OWNER.

1. Finished Pipe:
   a. CONTRACTOR shall submit detailed information to OWNER of the procedure and the steps to be followed for the installation of the directional drilling method selected, even if the process is named in the Standard Specifications. All such instructions and procedures submitted shall be carefully followed during installation. Any proposed changes in installation procedures shall require submittal of revised procedures.
   b. The installed pipe shall be continuous over the entire directionally drilled length and shall be free from visual defects, such as foreign inclusions, concentrated ridges, discoloration, pitting, varying wall thickness, and other deformities. Pipe with gashes, nicks, abrasions, or any such physical damage that may have occurred during storage and/or handling, which are deeper than 10% of the wall thickness, shall not be used and shall be removed from the construction site.
   c. Provide depth of cover at water resource crossings as shown in the Drawings or as specified, with minimum depth of covers as indicated in the table below. Cover is measured from the top of the finished product to the bed or bank of a navigable water or the soil surface of wetlands and other waters of the state.

Minimum Depth of Cover Under Water Resource	
Product Diameter (IN)	Depth of Cover (FT)*
≤6	4
≤15	6
≤24	10
>24	15

*Minimum cover is to reduce risk of inadvertent return (IR). More cover may be needed to prevent future pipe exposure due to erosion or scour in floodways or dredging in navigation channels.

2. Pipe Jointing:
   a. Ductile iron pipe joints shall be restrained joint pipe such as TR-Flex or equal. Restrained joints shall meet the applicable requirements of ANSI A21.11 (AWWA C111).
   b. PVC pipe joints shall be restrained joint pipe such as Certa-Lok meeting the requirements of ASTM D3139.
3. Insertion or Access Pits:
   a. The location and number of insertion or access pits shall be planned by CONTRACTOR and submitted in writing prior to excavation. The pits shall be located such that their total number shall be minimized and the length of replacement pipe installed in a single pull shall be maximized. The maximum length of continuous liner shall not exceed the pipe bursting system manufacturer's recommendations.
   b. Upon completion of the directional drilling operation by CONTRACTOR, CONTRACTOR shall backfill the excavation, perform clean up and all site restoration, as indicated on the Drawings. All surfaces shall be restored in kind with thicknesses matching those removed.

4. Process Limitations:
    a. Though the installation process may be licensed or proprietary in nature, CONTRACTOR shall not change any material, thickness, design values, or procedures stated or approved in the submittals. CONTRACTOR shall submit, in writing, full details about component materials, their properties and installation procedures, and abide by them fully during the entire course of the Project.
    b. All allowable directional drilling methods are considered to be structurally equal processes as far as end product required. The minimum required performance criteria, and/or standards, physical/structural properties, chemical resistance tests, and the replacement pipe thicknesses as given in this Standard Specification shall be strictly complied with.

E. It is CONTRACTOR's responsibility to examine the proposed line segment and notify if conditions exist that could cause problems with the directional drilling method. Such conditions could include nearby services that could be damaged by the operations, existing slabs that could be damaged, or less than acceptable depth of cover.

3.02 TUNNELING, BORING, JACKING, OR BORING AND JACKING

A. Where shown on the Drawings or specified, the sewer, water main, or force main (carrier pipe) shall be placed inside a casing pipe that is installed by tunneling, jacking, boring, or jacking and boring or other acceptable methods not using open cut construction techniques. Installation shall be accomplished in accordance with Federal and State Laws and municipal ordinances. Installation shall also conform to any permit requirements obtained by OWNER or CONTRACTOR from railroads; local, county, state or federal agencies; or any other such entity requiring a permit to allow the Work to proceed. Should there be a conflict between permit requirements and those herein, the stricter requirement shall control.

B. CONTRACTOR's means and methods of construction shall be capable of controlling water and soil infiltration at the excavated face, along the alignment and at shaft excavations to properly conduct the Work, to maintain a stable excavation, and to prevent collapse of the ground. CONTRACTOR shall obtain any dewatering permits required. If CONTRACTOR's means and methods are not effective in controlling such infiltration, CONTRACTOR shall select other means and methods and demonstrate to OWNER that water and soil infiltration can be excluded, all at no additional cost to OWNER. Shafts and open cut excavations shall be excavated by methods determined by CONTRACTOR to be capable of and suitable for coping with the surface and subsurface conditions. CONTRACTOR shall have a representative on site at all times who is experienced in the tunneling technique being used.

C. Installation of casing and carrier pipe shall proceed in such a manner as to minimize disruption of traffic and to avoid damage to adjacent roadways, railroad tracks, and other structures. No equipment shall operate off the pavement or tracks or the shoulder of the roadway or tracks being crossed during the course of construction. Signs, barricades, flag men, and lighting shall be provided or may be modified by any permit requirements and as needed to complete the Work–the more stringent requirement controlling.

D. CONTRACTOR shall submit manufacturer's data for the casing pipe, spacers, and carrier pipe. Information shall include the name of the pipe manufacturer, the dimensions of the pipe, and details on the material and method of pipe manufacturer or fabrication.

E. CONTRACTOR shall submit a jacking plan for each installation. The plan shall identify the method and equipment to be used, the location and size of the jacking pits, and the limits of the proposed jacking.

F. The carrier pipe shall be the same material as specified for open cut installation in the adjacent pipe.

G. All casing pipe shall be on-site before any jacking is to start. Once jacking operation is started, it shall be continued without interruption until completion. The position for spacers shall adequately support the carrier pipe throughout the casing. A casing spacer shall be installed within 1 foot of each end of the casing, on each side of each pipe joint, and at a maximum spacing of 10 feet for ductile iron carrier pipe. The carrier pipe shall be adjusted so that the end extends past the end of the casing 18 inches. After the carrier pipe is installed, the casing end seals shall be neoprene with stainless steel bands. The casing end seals shall be Cascade, or equal.

3.03 FINISHED PIPE

A. The installed pipe shall be continuous over the entire length and shall be free from visual defects, such as foreign inclusions, concentrated ridges, discoloration, pitting, varying wall thickness, and other deformities. Pipe with gashes, nicks, abrasions, or any such physical damage which may have occurred during storage and/or handling, which are deeper than 10% of the wall thickness shall not be used and shall be removed from the construction site.

3.04 TESTING

A. Testing of pipes installed with trenchless techniques shall be in accordance with Section 33 00 10–Buried Piping and Appurtenances.

B. CONTRACTOR shall perform a continuity test on all tracer wire in the presence of ENGINEER or OWNER. Continuity testing shall be performed prior to asphalt or concrete pavement placement. If the tracer wire is found to be not continuous after testing, CONTRACTOR shall repair or replace the failed segment of wire at CONTRACTOR's expense. All repairs or replacement shall be completed prior to asphalt or concrete placement.

END OF SECTION

SECTION 33 11 13.19

CONDUCTIVE TRACE WIRE FOR NONMETALLIC PIPE INSTALLATION

PART 1–GENERAL

1.01 SUMMARY

A. This section covers the requirements for installation of a conductive trace wire with non-metallic pipe underground.

1.02 MEASUREMENT AND PAYMENT

A. Work performed under this section shall be included in the unit price for pipe installation, as applicable, unless otherwise indicated in the Bid Form.

B. Tracer Wire Test Station shall be measured and paid for at the Contract Unit Price Bid per each.

C. Tracer wire shall be considered incidental to the pipe installation.

1.03 SYSTEM DESCRIPTION

A. Install electrically continuous trace wire with access points as described herein to be used for locating nonmetallic pipe with an electronic pipe locator after installation.

1.04 SUBMITTALS

A. Submit copies of shop drawings showing materials being offered and catalog data verifying the products meet the requirements of this section. CONTRACTOR shall submit four copies of each submittal, which will be retained by ENGINEER, plus the number of copies that are to be returned to CONTRACTOR by ENGINEER after review is completed.

PART 2–PRODUCTS

2.01 PRODUCTS

A. Tracer wire to be 12 AWG Copper Wire with 30 mm polyethylene jacket. Approved products include Copperhead high-strength tracer wire, or approved equal.

B. Tracer wire installed by trenchless methods shall be 1/4-inch-diameter vinyl-coated galvanized aircraft cable.

C. Wire connectors to be 3M DBR, or approved equal and shall be watertight and provide electrical continuity.

D. Tracer Wire Test Stations: The box shall be tamper-proof, with cast or ductile iron green lid, with a brass wire harness and external brass connection screw, manufactured by Copperhead Industries. Use LD14-ADJ-B or LDXL36-B models when installed in unpaved

areas, CD-14-B model when installed in concrete pavement, and RB14-B model when installed in roadways.

PART 3–EXECUTION

3.01 ERECTION/INSTALLATION/APPLICATION AND/OR CONSTRUCTION

A. Trace wire shall be installed in the same trench and inside bored holes and casing with nonmetallic pipe during pipe installation. It shall be secured to the pipe as required to so that the wire remains adjacent to the pipe. The trace wire shall be securely bonded together at all wire joints with an approved watertight connector to provide electrical continuity, and it shall be accessible at all new water valve boxes, water meter boxes, fire hydrants, sewer manholes, sewer cleanouts, gas valves and gas meter risers, as applicable to the utility line being installed.

B. At manholes, the wire shall be installed from the exterior of the manhole to the interior by installing a 24-inch loop in the wire underneath the manhole frame. The tracer wire shall be brought up to within 6 inches of surface level within manholes. A single branch wire shall be terminated at each access location (new water valve boxes, water meter boxes, etc. as previously listed), and the wires shall be spliced underground using the specified connector.

C. For lines with more than 5 feet of cover, the wire shall be installed directly over the pipe at a depth of 5 feet.

D. If the spacing of valves and meters is greater than one mile, install an intermediate trace wire access assembly as detailed on the Drawings.

E. For termination of trace wire at locations other than a manhole, a valve box, or a water meter, provide a standard plastic water meter box and terminate the wire inside the meter box.

3.02 TRACER WIRE TEST STATIONS

A. A magnetized tracer box shall be installed at surface grade for all boring pits. Locate the box behind the edge of pavement

B. Additional tracer boxes may be required at locations to be determined by OWNER.

3.03 TESTING

A. CONTRACTOR shall provide line location (tracing) equipment (sending unit and receiver) and shall demonstrate in the presence of ENGINEER that the trace wire functions properly throughout all of the work.

3.04 REPAIR/RESTORATION

A. CONTRACTOR shall replace all trace wire that does not function properly or shall make repairs to make the trace wire function properly.

END OF SECTION

SECTION 40 05 00

PIPING AND APPURTENANCES

PART 1–GENERAL

1.01 SUMMARY

A. Work Included:
   1. All piping, valves, and appurtenances of every description except for pipe as specified in Division 33.
   2. Concrete foundations and anchor bolts for all equipment furnished under this section.
   3. Piping connections to all equipment, whether furnished under this section or not.

B. Related Sections and Divisions: Applicable provisions of Division 01 shall govern work in this section.

1.02 SUBMITTALS

A. Applicable provisions of Section 01 33 00–Submittals cover requirements for shop drawings and Operation and Maintenance Manuals.

B. General arrangement drawings, including support system of 3 inches or larger interior and 3 inches or larger exterior (aboveground) ductile iron piping shall be submitted to ENGINEER for approval. Shop drawings for all interior and aboveground exterior piping shall be two-line drawings drawn to scale. Drawings shall include proposed materials, length, location, and elevation of pipe, fittings, supports, and valves and appurtenances. Plug valve orientation, including operator and plug orientation, shall be shown on Drawings.

1.03 MEASUREMENT AND PAYMENT

A. Pumping Station Improvements–Complete shall be paid for at the Contract Lump Sum Bid. The work should include all materials, labor, equipment, check valves, plug valves, concrete surface repair, concrete work, Type K door, and any other related work required to complete the work.

B. Quick Connect, of size specified specified shall be paid for at the Contract Unit Price Bid per each. The price of all materials, labor, and equipment necessary to install the quick connect shall be included in the unit price.

C. Force main, and fittings installed within the pumping station shall be included in the costs for Pumping Station Improvements–Complete.

D. See Section 02 41 00–Demolition for the measurement and payment for the Pumping Station Demolition–Complete.

PART 2–PRODUCTS

2.01 MATERIALS OF CONSTRUCTION

A. Materials of Construction: All materials used in the manufacture, assembly, and painting of piping and valves in contact with water shall be compatible with potable water supplies and in contact with chemical feed systems shall be compatible with the chemicals being used. All glues, solvents, solders, etc., shall likewise be compatible. For instance, no lead-base solders shall be used. Products used in potable water systems shall be UL classified in accordance with ANSI/NSF-61 for potable water service and shall meet the low-lead requirements of NSF-372.

B. Size and Type:
   1. All materials shall conform to the size and type shown on the Drawings or called for in the specifications.
   2. In joining two dissimilar types of pipe, standard fittings shall be used when available. In the event standard fittings are not available, the method of joining shall be selected by CONTRACTOR and submitted for review by ENGINEER.

C. Piping appurtenances shall be made of the materials specified. All appurtenances not designated as to type shall be subject to approval of ENGINEER. All grooved joint couplings and fittings shall be of the same manufacturer.

2.02 PIPE AND PIPE FITTINGS

A. Ductile Iron Piping and Fittings:
   1. Unless otherwise shown or specified, all interior piping 4 inches in diameter or larger shall be ductile iron conforming to AWWA C151.
   2. Interior piping shall be minimum Special Class 53 with a minimum rated working pressure of 250 psi.
   3. Except where shown, interior pipe joints shall be flanged. Flanged joints shall conform to applicable flanged joint sections of AWWA C110, C111, and C115 and shall be compatible with ANSI B16.1 Class 125. Flanges shall be ductile iron. Manufacturers of flanged pipe and fittings shall be certified to NSF 61 by an ANSI-accredited third-party certification organization.
   4. Gaps between flanges and all locations where a gap exists at flange hub/pipe intersection shall be caulked prior to finish painting with Masterseal NP-1 by Master Builders Solutions, Sika FLEX 1-A by Sika Corporation, or equal. CONTRACTOR shall verify compatibility of caulk with finish painting system.
   5. Flanged gaskets shall be minimum 1/8-inch-thick, styrene butadiene rubber (SBR), full-face, Toruseal, Flange-Tyte, Maloney, or equal, gaskets. Thicker gaskets shall be provided as recommended by the manufacturer to meet joint tolerance.
   6. Flange bolts, nuts, and fastening hardware installed in wet wells, valve manholes and other submerged locations shall be 316 stainless steel.
   7. Flanged fittings shall be of ductile iron with ductile iron flanges. Flanged fittings shall conform to AWWA C110 and ANSI B16.1, as applicable, with a minimum rated working pressure of 150 psi.
   8. All ductile iron fittings shall be American Ductile Iron Pipe, Tyler Union, U.S. Pipe, or equal.
   9. All flanged sections of pipe shall be made up in accordance with AWWA C115 specifications. No field makeup flanges will be allowed unless they are approved in

advance by ENGINEER and strictly conforming to AWWA C115, with facing done after turning pipe through flange.

10. Unless otherwise specified, all ductile iron piping and fittings shall be cement mortar lined and asphaltic-coated inside. Cement mortar lining shall be in accordance with AWWA C104. Asphaltic coating shall conform to applicable standards herein for the pipe and fittings. Exterior exposed, submerged, and interior piping shall be furnished with outside surfaces prepared by abrasive blasting in accordance with NAPF 500C-03. Cleaned surfaces shall then be shop-primed. Factory shop prime with one coat of Tnemec N69 or N140 or Sherwin Williams Duraplate 235 or Macropoxy 646PW, or equal, applied at a minimum 5.0 mils dry film thickness. Primer color shall be beige. Primer used shall be compatible with proposed finish coats; CONTRACTOR shall verify. It is the intent of this specification that all piping, supports, and appurtenances shall be furnished shop-primed, clean, and ready to accept finish painting by CONTRACTOR with a minimal amount of surface preparation. Preparation and painting shall conform to all requirements and provisions specified herein.
11. Unless otherwise specified, piping and fittings in manholes and wet wells shall be as furnished above for exterior exposed and interior piping.

2.03 VALVES

A. Plug Valves:

1. Shutoff valves in ductile iron lines containing wastewater and all sludge lines, scum lines, grit lines, drainage lines, and digester lines shall be DeZURIK Series PEF 100% port Eccentric, or equal.
2. Eccentric-type valves shall be nonlubricated rectangular-ported with resilient faced plugs and end connections. The plug profile shall be of a cylindrical eccentric shape so that the vertical face of the plug is straight and the horizontal face is eccentrically curved in relation to the plug shafts. Segmented ball valves with spherical plugs shall not be acceptable. Port areas shall be at least 100% (PEF) of full pipe area. Valve bodies shall be of ASTM A126, Class B cast iron. Valve bonnets shall be of the same material as the body. Resilient plug facings shall be chloroprene or Buna-N, suitable for use with wastewater.
3. Valves shall be furnished with corrosion-resistant seats, replaceable oil-impregnated permanently lubricated 316 stainless steel sleeve-type bearings and grit shaft seals on both upper and lower bearing journals that comply with the latest edition of AWWA C517. All valves except for valves in buried service shall include grease fittings on upper and lower journals. Bodies of 3-inch and larger valves shall be furnished with a minimum 1/8-inch-thick machined smooth-welded overlay seat of not less than 90% nickel. Seat area shall be raised surface completely covered with weld so that the plug face contacts only nickel. Sprayed or screwed-in seats are not acceptable. Valve shaft seals for valves 4 inches and larger shall be of the type using a stuffing box and pull-down packing gland. Shaft seals shall be designed for replacement with the line pressurized at design pressure with the plug in both the open and closed position. For submerged service, or in valve manholes, valve vaults, or underground utility structures, valves shall have stainless steel bolts.
4. The design of the valve and stuffing box assembly shall be such that the packing can be adjusted or completely replaced without disturbing any part of the valve or operator assembly except the packing gland follower. Stuffing boxes shall have a depth sufficient to accept at least four rings of Buna-N vee-type packing. Valve seating adjustment shall be accomplished without removing the valve from the pipe line and with pressure in the line. For lever-operated valves, the plug position retention friction device shall consist

of an adjustable phenolic cone that clamps on the plug shaft or a moly sheath. Metal-to-metal friction devices shall not be acceptable.

5. Valve working pressure ratings shall be 175 psi for valves through 12 inches and 150 psi for valves 14 inches through 24 inches. Valves shall provide drip-tight shutoff up to the full pressure rating.
6. All plug valves for buried service, all plug valves 8 inches in diameter or larger, all plug valves with direct pressure greater than 75 psi or reverse differential pressure greater than 25 psi, and all plug valves for any gas or digester gas service 4 inches in diameter or larger shall have worm gear actuators. All gearing shall be enclosed in a semi steel housing and be suitable for running in a lubricant with seals provided on all shafts to prevent entry of dirt and water into the actuator. The actuator shaft and the quadrant shall be supported on permanently lubricated bronze bearings. Actuators shall indicate valve position. Buried or submerged valves and valves in manholes shall be supplied with actuators suitable for direct burial or submergence, shall be mounted on a gasketed and totally enclosed actuator mounting bracket, and shall have a totally enclosed and gasketed cover. All other valves shall be furnished with lever actuators. Supply one lever for every four valves of like size furnished. All valves 3 inches and smaller shall have individual levers. Valves not in reach of the floor (7 feet to centerline or greater) shall have chain wheel worm gear actuators. Right angle actuators shall be furnished, if required, because of valve position. Supply sufficient galvanized or electroplated chain with chain wheel so loop through chain wheel is within 3 feet of floor. Buried or submerged service valves shall be supplied with 316 stainless steel bolts and hardware for both valve and actuator.
7. Extension stems and other accessories shall be provided as shown on the Drawings and as required to allow easy access for operation of valves within reach from walkways or other access points. Extend operators to at least 24 inches above walkways. Extension stems for quarter-turn plug valves shall be fabricated from 2-inch pipe, and extensions stems for gear-operated valves shall be fabricated from steel or stainless steel rod. Extension stems, stem guides, and related hardware and accessories for submerged valves shall be stainless steel. Stems shall be provided with 2-inch operating nut or other mechanism as shown on the Drawings. Stem guides shall be provided as recommended by the manufacturer. Maximum unsupported length of stem shall be limited to an l/r ratio of 200.
8. Asphaltic varnish and coal tar coating are not allowed on interior valves. Exterior buried valves shall be fusion-bonded epoxy-coated or epoxy-coated. Interior and exterior exposed valves shall be furnished with all surfaces (except galvanized or stainless steel) prepared in accordance with near white grade SSPC Specification No. 10 removing all dirt, rust scale, and foreign materials. Surface preparation shall be done at such time during the assembly process as to preclude damage to the valves once assembled. Cleaned surfaces shall then be shop-primed. Factory shop prime with one coat of Tnemec N69 or N140 or Sherwin Williams Duraplate 235 or Macropoxy 646PW, or equal, applied at a minimum 5.0 mils dry film thickness. Primer color shall be beige. Primer used shall be compatible with proposed finish coats; CONTRACTOR shall verify. A fusion-bonded epoxy system is an acceptable alternative to the specified primer. It is the intent of this specification that all valves, supports, and appurtenances shall be furnished shop-primed, clean, and ready to accept finish painting by CONTRACTOR with a minimal amount of surface preparation. Except as noted below, valve interior shall be shop-primed and finish painted with epoxy painting system or fusion-bonded epoxy system as specified above.

B. Check Valves:
   1. Except where noted, check valves in ductile iron lines carrying liquid shall be GA Industries Figure 230-DS, Apco Model 250 LS by DeZURIK, (outside lever and spring), GA Industries Figure 220-DS, Apco Model 250 LW 6000 LW by DeZURIK, (lever and weight), or equal, 150 psi, ductile iron or iron body, bronze or stainless trimmed, swing check. Two additional weights shall be used if necessary to stop slamming.
   2. Asphaltic varnish and coal tar coating are not allowed on check valves. Exterior of cast iron or steel valve body shall be furnished with all surfaces (except galvanized or stainless steel) prepared in accordance with near white grade SSPC Specification No. 10 removing all dirt, rust scale, and foreign materials. Surface preparation shall be done at such time during the assembly process as to preclude damage to the valve once assembled. Cleaned surfaces shall then be shop-primed. Factory shop prime with one coat of Tnemec N69 or N140 or Sherwin Williams Duraplate 235 or Macropoxy 646PW, or equal, applied at a minimum 5.0 mils dry film thickness. Primer color shall be beige. Primer used shall be compatible with proposed finish coats; CONTRACTOR shall verify. A fusion-bonded epoxy system is an acceptable alternative to the specified primer. It is the intent of this specification that all valves, supports, and appurtenances shall be furnished shop-primed, clean, and ready to accept finish painting by CONTRACTOR with a minimal amount of surface preparation.

C. Miscellaneous Valves, Strainers, Hose Bibs, and Valve Boxes:
   1. Shutoff valves in non-potable water lines smaller than 2 1/2 inches shall be Nibco T-585 (threaded), Nibco S-585 (solder joint), or equal, full port ball valves. Provide extended stems for valve operators installed with insulated pipe.
   2. Shutoff valves in PVC piping shall be hand-operated 150 psi union-type PVC ball valves, Chemtrol TU Series Tru-bloc, Walworth Series 8927, or equal. Valves and all components including O-rings shall be compatible with chemicals in piping. PVC valves and union shall not be painted.
   3. Wastewater Air Release Valves:
      a. Combination air valves shall be APCO model ASU manufactured by DeZurik, Model D-020 SS manufactured by A.R.I., or equal. Combination air valves in sizes 1-inch to 8-inch shall be single body design and shall provide both air release and air/vacuum valve functions.
      b. Air release shall be designed to automatically provide varied and predictable air flow over a wide range of conditions. The air release orifice must be capable of releasing the maximum anticipated air volume.
      c. Valves shall close tightly at any pressure between 2 and 300 psi without leaking or spilling. The air/vacuum inlet and outlet areas shall meet the flow area requirements set forth in AWWA M51 and be manufactured as set forth in AWWA C512.
      d. Valve shall have an upper body compression chamber to limit fluid level and solids interference. It shall also have a funnel shaped lower body to reduce solids buildup and allow for self-cleaning and maximum outflow.
      e. A hydraulics-based float design shall be used to reduce the ballistic effect and instability of high speed fluid flow. The guided float shaft shall provide smooth automatic air release and air/vacuum operation that will not foul and reduce performance on dirty service applications. To avoid loss of performance, the Air Release and Air/Vacuum seating action shall be direct driven by the shaft-mounted float. No linkages shall be used. Flow deflector/splash reduction ring shall be used to restrict solids entry and minimize flow effect and splash that can cause float instability.

f. A 90-degree threaded side outlet shall be included with the valve with an extension pipe. Valves shall be capable of converting to optional vertical threaded outlet or mushroom cap without removing the valve from service and valve disassembly.
g. Materials of construction:
(1) Body, float shaft, and hardware shall be 316 stainless steel.
(2) Float shall be 316 stainless steel or polypropylene.
(3) Elastomer seals shall be Acrylonitrile-butadiene (NBR) or EPDM.
h. End connections shall be NPT or ANSI 125/150 flanged. Valves 4 inches and larger shall have two lifting lugs for ease of valve installation.
i. Two-year warranty shall be provided for all valves.

4. Water Air Release Valve:
a. The air release valve shall be 1-inch APCO Model No. 50, Val-Matic No. 15A, or equal.
b. The valve assembly shall be installed as shown on Drawings.
c. CONTRACTOR shall run 1/2-inch pipe from the top of the valve as shown. Screen end of pipe.

2.04 PIPING APPURTENANCES AND MISCELLANEOUS MATERIALS

A. General: Piping appurtenances shall be made of the materials specified. All appurtenances not designated as to type shall be subject to approval of ENGINEER.

B. Non-Potable Water Caution Signs: Place non-potable water signs permanently mounted at every hose bib, hydrant, or faucet on the non-potable water system. Sign shall include as a minimum the wording “CAUTION, NON-POTABLE WATER, DO NOT DRINK” or similar standard language. Signs shall be Brady Safety sign, or equal, minimum size 7 inches by 10 inches, constructed of fiberglass. Mount signs on building wall or structures with stainless steel screws or fasteners. At yard hydrant, provide post-mounted signs on steel U-channel posts.

C. Rubber Expansion Joints: Rubber expansion joints shall be furnished and installed where shown on the Drawings and where required to eliminate vibration from equipment to piping. Expansion joints shall be the single filled-arch type as manufactured by the Mercer Rubber Company, Series Style 450 or 500; General Rubber Corporation, 1100 Series; or equal. Unless otherwise specified, expansion joints shall be provided complete with stainless steel control rods, rubber washers, stainless steel nuts, and jamb nuts, as required. Control rods shall be provided to prevent over-stress on coupling at a minimum of twice the system test pressure. The number and size of the control rods shall be sufficient for twice the test pressure, two rods minimum. Expansion joints shall have integral duck and rubber flange with split backup rings and have a minimum rated working pressure of 150 psi and 20 inches Hg vacuum. Joints shall be provided with higher rated working pressures, if required to meet specified test pressures. Joints shall have a nominal laying length of 6 inches for joints sized up to 8 inches in diameter, 8 inches for joints sized up to 20 inches in diameter, and 10 inches for joints sized up to 36 inches in diameter. Tube and cover shall be of butyl rubber.

D. Restrained Flanged Coupling Adapters: Restrained flanged coupling adapters shall be furnished and installed. Restrained flanged coupling adapters shall be of ductile iron construction, complete with EPDM sealing gasket, and gripping wedges and torque limiting actuating screws. Restrained flanged coupling adapters shall be Series 2100 MEGAFLANGE by EBAA Iron, or equal.

E. Quick Hose Disconnect: Provide Dixon Valve EZ Boss-Lock Coupler with 150-pound flange, Model RDL400EZ for 6-inch connections and Model RDL-600EZ for 6-inch connections. Coupler shall be 316 stainless steel with Nitrile gasket. Provide each coupler with a 316 stainless steel dust plug. CONTRACTOR to provide minimum 2-foot loop of 316 stainless steel cable to connect coupler to dust cap.

F. Pipe Coupling: Pipe couplings identified on the Drawings shall be Dresser Type 38, Smith Blair 411, or equal, steel coupling. CONTRACTOR shall provide tie ears and tension ties where necessary to restrain pipe.

G. Tension Ties: All tension ties and rod ties shall be provided to resist a minimum 150 psi pressure in the pipe line. CONTRACTOR shall provide tie ears to secure tension rods to flanges where necessary. Rods shall be provided with nuts and washers on both sides of tie ears. All nuts, washers, and rods shall be Type 304 stainless steel. Rods shall be Type 304 stainless steel at a minimum. Tie rods shall be equally spaced around pipe. The following table lists the minimum number and diameter in inches for the tie rods for various sizes of pipe.

H. Mechanical Seals: Mechanical seals shall be 316 stainless steel Link Seal, Innerlynx by APS, or equal. Link seals shall be provided with 316 stainless steel bolts, nuts, and fasteners. Sleeve diameter shall be provided and mechanical seals installed as recommended by the manufacturer.

I. Pressure Gauges: Provide a pressure gauge on each new pump discharge piping (total of two) in the valve pit. Pressure gauges shall be Ashcroft, or equal, and shall have scale in psi with a maximum range equal to twice the normal operating pressure. Provide compound gauges at pumping station. Gauges shall have 4-inch minimum diameter stainless steel case, shall be connected to a mineral-oil filled diaphragm housing to separate the gauge from liquid in discharge line, and shall have accuracy of ±1%. Provide isolation valve and union at connection to pipe to allow the gauges to be removed while the line is under pressure. Gauges shall be mounted to permit pressure readings from above without entering the valve pit.

J. Service Saddle: Service saddles shall have a ductile iron body per ASTM A536 and have two carbon steel bales. Bales, washers and nuts shall be electro-galvanized with dichromate seal. Gasket shall be of Nitrile rubber and NSF61 listed. Saddle shall be Smith-Blair, Style 313, or equal.

K. Tapping Sleeve: Tapping sleeve body and neck shall be made of heavy 18-8 Type 304 stainless steel. Flange, studs, nuts and washers shall be Type 304 stainless steel. Gasket shall be 1/4-inch thick, gridded and have a molded outlet ring to provide effective sealing. It shall be SSF 61-G Nitrile. All welded stainless steel surfaces shall be fully passivated. Sleeve shall be Smith-Blair Style 663, or equal.

PART 3–EXECUTION

3.01 GENERAL

A. Refer to requirements specified in Division 01 for equipment installation, quality control, testing, supervision, start-up, and operator training.

3.02 INSTALLATION

A. Interior or Exposed Piping:

1. Provide pipe supports for all piping. Pipe support spacing and type shall, at a minimum, conform to manufacturer's recommendations unless more restrictive requirements are specified or shown on the Drawings. All interior or exposed pipelines shall be securely supported by adjustable saddles, brackets, or adjustable hangers supported directly by concrete, masonry work, or tile. Strap hangers, tin clips, or U-hooks will not be acceptable. Piping shall be supported, even though not shown on the Drawings, using base fittings and concrete pads to 6 inches above the floor, Anvil 264, B-line, or equal, adjustable pipe saddle stand with floor flange to 6 feet above the floor, and supporting clamps or inserts more than 6 feet above the floor. In general, the maximum spacing of supports shall not exceed 10 feet on center. Except as specified for plumbing system, all PVC piping shall be supported using galvanized supports for flexible piping except as indicated. Type 316 stainless steel supports and fasteners shall be used in submerged locations, wet wells, or as indicated. Insulation saddles shall be used at supports of insulated piping. CONTRACTOR shall furnish and place hangers, supports, wall pipes, and sleeves in the forms before concrete is poured where needed or shown on the Drawings.
2. All supports and parts shall conform to the latest requirements of ASME B31 and shall have a structural safety factor of 5. Accurate weight balance calculation shall be made by CONTRACTOR to determine the required supporting force at each hanger location and the pipe weight load at each equipment connection. CONTRACTOR shall be responsible for the installation of the supports. Pipe hangers shall be capable of supporting the pipe weight load in all conditions of operation. The hangers shall allow free expansion and contraction of the piping to prevent excessive stress in the piping. Where vertical movement up to 1/8 inch is anticipated, a precompressed variable spring support shall be used. Rigid hangers shall be provided with a means of vertical adjustment after erection. Where horizontal piping movements are greater than 1/2 inch, or where the hanger rod angularity from vertical is greater than 4 degrees from hot to cold position of the pipe, the hanger pipe and structural attachments shall be offset in a manner that the rod is vertical in the hot position. Hangers and supports shall be spaced in accordance with ASME B31 and as indicated in this specification. Pipe supports shall be placed before and after a valve, expansion joint, or equipment so stress will not be transferred to them.
3. CONTRACTOR shall provide calculations of pipe supports if requested by ENGINEER.
4. All carbon steel parts shall be furnished with all surfaces (except galvanized or stainless steel) prepared in accordance with near white grade SSPC Specification No. 10 removing all dirt, rust scale, and foreign materials. Surface preparation of all carbon steel parts shall be performed at such time during the assembly process as to preclude damage to the equipment once installed and assembled. Cleaned surfaces shall then be shop-primed. Factory shop prime with one coat of Tnemec N69 or N140 or Sherwin Williams Duraplate 235 or Macropoxy 646PW, or equal, applied at a minimum 5.0 mils dry film thickness. Primer color shall be beige. Primer used shall be compatible with proposed finish coats; CONTRACTOR shall verify. It is the intent of this specification that all equipment, supports, and appurtenances shall be furnished shop primed, clean, and ready to accept finish painting by CONTRACTOR with a minimal amount of surface preparation.

5. The following maximum spacings shall be provided for supports:

MAXIMUM HORIZONTAL PIPE HANGER AND SUPPORT SPACING

Nominal Pipe or Tube Size	Copper Tubing		Ductile Iron (See Note 1) ft	PVC/CPVC Pipe (See Note 2) ft
	Water Service ft	Vapor or Air Service ft		
1/4	5	5		
3/8	5	6		Continuous
1/2	5	6		Continuous
3/4	5	7		Continuous
1	6	8		4
1 1/4	7	9		4
1 1/2	8	10		4
2	8	10		4
2 1/2	9	10		4
3	10	10		4
4	10	10	10	4
5	10	10	10	4
6	10	10	10	9
8	10	10	10	9
10	10	10	10	10
12	10	10	10	10
14			10	10
16			10	10
18			10	10
20			10	
24			10	
30			10	
36			10	
42			10	

Note 1: Provide at least one hanger per pipe length located as close to the flange or joint on barrel as possible.

Note 2: Spacing is based on Schedule 80 at 100°F. For Schedule 40 or higher temperatures, provide shorter span. Consult local plumbing code and manufacturer's recommendations as required. Minimum spacing requirements shall govern.

6. The length of hanger span and support spacing in the above table refers to straight lengths of pipe. When there are changes of direction in pipe, two supports shall be placed less than three-fourths the full span in the table. When practical, a hanger shall be located immediately adjacent to a change in direction of piping. Where there are concentrated loads between supports such as valves, spacing shall be based on load calculations rather than this table.
7. Provide saddles or shields under or around piping between hanger and supports for all insulated piping to prevent crushing of insulation. Provide stainless steel pipe shields under aeration stainless steel piping to prevent indentation of piping from the support or clamp.

8. Anchored supports shall include a stainless steel U-bolt and nuts bolted to the wall bracket.
9. Exposed piping shall run straight, in neat parallel lines, and shall be located far enough from walls, ceilings, and floors to permit access for covering of pipe and painting work. Care shall be taken in laying out piping so that there is no interference with the proper location of piping for other purposes or other equipment and shall be run with regard to the requirements of each service.
10. Except for flanged piping, an ample number of standard weight ground joint unions and a shutoff valve shall be provided in all pipelines and at all equipment. CONTRACTOR shall provide 3/8-inch tapped and plugged connections in suction and discharge of all pumps for testing.
11. Valves shall be located on all branches of water supply lines where shown on the Drawings. Position valves to facilitate access and operation.
12. The appropriate number, size, and lengths of spool pieces and flange fillers needed for plumbing and leveling any existing piping shall be included in the price bid.
13. The locations and elevations of existing piping are approximate. Any changes in the pipe location or elevation shall be reviewed by ENGINEER.
14. CONTRACTOR shall submit shop drawings showing new pipe routing and existing pipe removal. CONTRACTOR shall be responsible for final pipe routing and shall route new piping as required to minimize conflicts. Piping shown on the Drawings is approximate only. Not all existing piping, conduit, equipment, etc., are shown on the Drawings. CONTRACTOR shall field-verify locations. CONTRACTOR shall reroute existing piping, conduit, etc., as indicated or as required to install new piping or equipment. CONTRACTOR shall remove and relocate existing pipe supports as required to install new piping. CONTRACTOR shall provide all piping, fittings, flange fillers, and other appurtenances as required to provide functional system at no additional cost to OWNER.

B. Wall and Other Pipe Penetrations:
1. CONTRACTOR shall furnish and place hangers, supports, wall pipes, sleeves, and floor boxes in the forms before concrete is poured wherever needed or shown on the Drawings.
2. Where pipes pass through concrete members without wall fittings shown, CONTRACTOR shall provide sleeves in the forms for the piping, unless otherwise shown on the Drawings. The sleeve diameter shall not exceed the pipe o.d. plus 2 inches (or the pipe flange o.d. plus 1 inch, as applicable), unless otherwise shown on Drawings. If the concrete members are to be watertight, the annular space around the pipe shall be sealed with a mechanical seal. Sleeves shall be steel unless noted otherwise and shall include minimum 1-inch waterstop. Steel sleeves shall be prepared, primed, and painted prior to placement in between concrete forms. Steel sleeves shall receive touch-up paint prior to placing forms.
3. Where plain end wall pipes are shown or indicated on the Drawings, CONTRACTOR may substitute a flanged end wall pipe, if desired, for the purposes of pressure testing specified herein.
4. Where pipe passes through nonwatertight walls, the annular space shall be grouted full. Where pipes pass through nonwatertight floors, the sleeve shall extend 1 inch above the finished floor elevation. The annular space shall remain open, except the annular space between a rated space (example–Class I, Division 1, Group D hazardous location) and a nonrated space shall be sealed with a mechanical seal.
5. Where new pipes go through existing watertight concrete members, CONTRACTOR shall core a hole through the member, unless otherwise shown on the Drawings. The

annular space between the concrete and pipe shall be sealed with a mechanical seal. Where new pipes go through existing nonwatertight concrete or masonry members, holes shall be cored and annular space between the concrete and the pipe shall be grouted full (walls or floors at rated spaces) or remain open (floors at nonrated spaces). Prior to any coring, CONTRACTOR shall locate reinforcing steel in the member and shall consult with ENGINEER to determine optimal location for the core. Plug abandoned pipes and wall pipes, after pipe and fittings removal flush to the concrete surface, with nonshrink grout, to achieve a watertight seal.

6. No chases or recesses shall be made in poured concrete for pipe installation, and no pipe shall run in poured concrete unless called for in the Drawings or specifications or permitted by ENGINEER. The cutting or core drilling of concrete for pipe shall be avoided wherever possible, and in no case where such cutting or core drilling is necessary shall reinforcing rods be cut or disturbed without notifying ENGINEER. All openings for pipe work shall be neatly patched in a workmanlike manner.
7. Rough openings in wet well walls shall be provided to install force main discharge piping. Opening shall be minimum necessary to provide for nominal adjustments of pipe installation to eliminate the need for special flanges or sleeves in the wet well to allow for laying length adjustments. After piping is installed and properly supported, opening shall be filled with nonshrink grout formed to the wall surfaces.

C. Cleaning and Disinfection: All equipment and materials shall be clean before installation. CONTRACTOR shall disinfect and flush the potable water system before it is put online. Water main shall be disinfected according to AWWA C651.

3.03 FIELD QUALITY CONTROL

A. CONTRACTOR shall include the cost of all testing, cleaning, and disinfection in the price Bid.

B. Work shall be tested as specified in this section. Unless indicated by ENGINEER in writing before testing begins, tests shall be witnessed by ENGINEER and others as necessary. Test results shall be recorded, and reports or appropriate certificates shall be submitted to ENGINEER in triplicate.

C. New piping shall be tested. Piping, interior or exposed, shall be subject to test before being covered with insulation or paint or before caulking of any gaps at flanges of ductile iron piping. Piping and appurtenances shall be watertight or airtight and free from visible leaks.

D. Piping shall be flushed or blown out after installation and prior to testing. CONTRACTOR shall provide all necessary piping connections, water, air, test pumping equipment, water meter, bulkheads, valves, pressure gauge and other equipment, materials, and facilities necessary to complete the specified tests. CONTRACTOR shall provide all temporary sectionalizing devices and vents for testing.

E. Gauges used for testing shall have increments as follows:
1. Tests requiring a pressure of 10 psi or less shall use a testing gauge having increments of 0.10 psi or less.
2. Tests requiring a pressure of greater than 10 psi shall use a testing gauge having increments of 1 psi or less.

F. Pressure Tests: The test pressure in all lines shall be held for one hour during which time the leakage allowance shall not exceed that specified. In case repairs are required, the pressure test shall be repeated until the pipeline installation conforms to the specified requirements. Pumps, air compressors, instrumentation, and similar equipment shall not be subjected to the pressure tests. All piping conveying a combination of fluids shall be tested at the higher test pressure.

Fluid Abbreviation or Name	Minimum Test Pressure in psi	Test Medium	Leakage Allowance Designation
Force Main, Sanitary	100	Water	"A"(1)

(1) Leakage allowance Designation "A" shall mean zero leakage.

G. Polyethylene encasement of cast iron drainage piping and appurtenances shall be in accordance with AWWA C105. Use Method A for pipe and Method C for valves. Repair any rips or punctures prior to backfilling pipe.

3.04 DEMOLITION

A. All interior piping removals, including appurtenances and abandonment, shall be by CONTRACTOR. The locations and elevations of existing piping are approximate. Any change in pipe location or elevation shall be reviewed by ENGINEER.

B. CONTRACTOR shall remove or abandon all existing piping and appurtenances as noted. Unless otherwise shown or specified, piping and appurtenances to be removed shall become the property of CONTRACTOR and shall be removed from the site for salvage or disposal.

C. Valve boxes and exposed valves and operators on piping to be abandoned shall be removed. All concrete surfaces to remain shall be patched as required to provide a smooth surface. Repiping and connections to new piping shall be as specified for new piping.

D. It is the responsibility of CONTRACTOR to remove the piping, fittings, and appurtenances within the Ravines Pumping Station, as specified and patch all holes resulting therefrom unless specified or shown otherwise. The intent of these specifications is to require that the removal of materials, patching of all existing holes, and repiping be done in a workmanlike manner. All costs shall be included in the Lump Sum Bid.

3.05 CLEANING

A. All equipment and materials shall be clean before installation.

B. Broken concrete, rubble fill, and other excess material shall be removed from the site and wasted.

C. All surplus material, tools, and equipment shall be removed, and the premises shall be left free of everything of the kind.

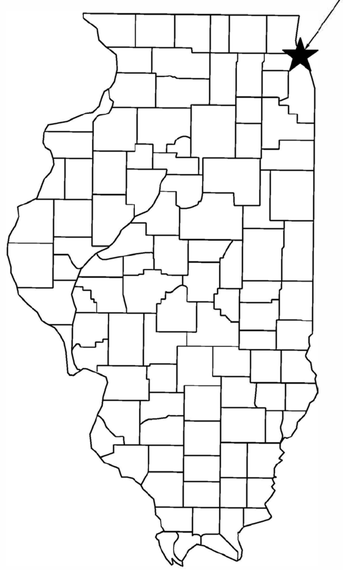
END OF SECTION

VILLAGE OF WINNETKA
CONTRACT FOR THE
RAVINES SANITARY PUMPING STATION
AND FORCE MAIN REHABILITATION

ATTACHMENT C

DRAWINGS

PROJECT LOCATION



AREA MAP
N.T.S.

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

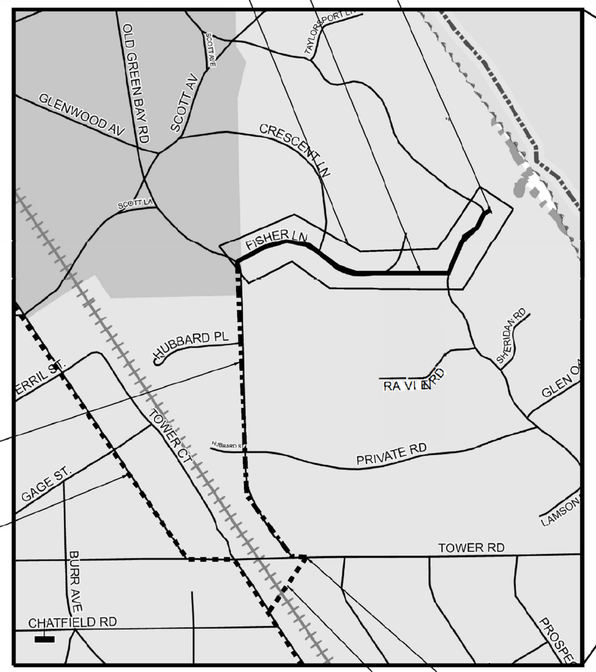
FOR

WINNETKA, ILLINOIS

JANUARY 2026

RAVINES PUMPING STATION
1075 SHERIDAN ROAD,
WINNETKA, IL 60093

WINNETKA'S FORCE MAIN, 6"
PROJECT SITE



WINNETKA'S SANITARY SEWER, 12"

MWRD INTERCEPTOR SEWER

LEGAL DESCRIPTION
S17 T42N R13E

PROJECT LOCATION MAP
N.T.S.

GENERAL LOCATION MAP
N.T.S.

LOCATION OF SITE
COOK COUNTY, ILLINOIS

WINNETKA'S SANITARY SEWER CONNECTION TO THE MWRD INTERCEPTOR SEWER AT TOWER ROAD

MWRD INTERCEPTOR SEWER, 15"

LIST OF DRAWINGS

SHEET NUMBER	DRAWING TITLE
1	TITLE SHEET, PROJECT LOCATION, AND LIST OF DRAWINGS
2	MWRD - GENERAL NOTES
3	GENERAL NOTES
4	LEGEND
5	ALIGNMENT, TIES, BENCHMARKS, AND CONTROL POINTS
6 - 7	EXISTING CONDITIONS - FISHER LANE
8	EXISTING CONDITIONS - SHERIDAN ROAD
9	EXISTING CONDITIONS - RAVINES PUMPING STATION - STRUCTUAL AND MECANICAL DETAILS
10	EXISITING CONDITIONS - RAVINES PUMPING STATION - ELECTRICAL DETAILS
11 - 12	REMOVALS AND EROSION CONTROL PLAN - FISHER LANE
13	REMOVALS AND EROSION CONTROL PLAN - SHERIDAN ROAD
14	DEMOLOLITION PLAN - RAVINES PUMPING STATION
15	PUMPING STATION IMPROVMENTS PLAN - RAVINES PUMPING STATION
16 - 18	PLAN AND PROFILE - FISHER LANE
19	PLAN AND PROFILE - SHERIDAN ROAD
20 - 21	RESTORATION PLAN - FISHER LANE
22	RESTORATION PLAN - SHERIDAN ROAD
23 - 24	VILLAGE OF WINNETKA - STANDARD CONSTRUCTION DETAILS
25	GENERAL CONSTRUCTION - DETAILS - 1
26	EROSION CONTROL - DETAILS - 1
27	ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) - DISTRICT ONE DETAILS
28 - 31	ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) - DETAILS
32	RAVINES PUMPING STATION SERVICE AREA

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.

P (708) 588-4055
E WMOJobStart@mwrd.org

1170 SOUTH HOUBOLT ROAD
JOLIET, IL 60431
815 744-4200

IDFPR NO. 184-001273
www.strand.com

CONTRACT NO. 026-001

MEMBER ONE CALL SYSTEMS INTERNATIONAL

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN ILLINOIS

CALL J.U.L.I.E.
1-800-892-0123
TOLL FREE

REQUIRES MIN. OF 48 HOURS NOTICE BEFORE YOU EXCAVATE. (EXCLUDING SAT., SUN., & HOL.)

MICHAEL R. WALDRON
062-050441
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

12/16/25

EXP 11/30/27

ISSUED FOR BID
JANUARY 5, 2026

STRAND ASSOCIATES®

SHEET 1
JOB NO. 1619.070

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A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * VILLAGE OF WINNETKA MUNICIPAL CODE;
   * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
   * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).

2. THE VILLAGE OF WINNETKA ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.

3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 3.048 FT.

2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.

3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.

4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.

5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.

6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.

8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.

9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.

10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.

2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.

3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.

4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).

5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.

9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.

10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.

11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
    a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
    b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
    c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.

13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.

16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.

17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.

3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
   a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
   b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.

9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.

10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.

11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.

12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).

13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.

15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.

16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.

18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.

19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.

21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.

22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.

23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

MWRD
GENERAL NOTES

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 2

SPECIFICATION, STANDARDS, AND SPECIAL PROVISIONS

1. THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" AS PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (SSWSC) SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT.

2. THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL ALSO GOVERN THE PROJECT. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND AS DESIGNATED BY THE ENGINEER.

PROJECT EXECUTION

3. THE VILLAGE OF WINNETKA SHALL BE NOTIFIED A MINIMUM OF 72 HOURS PRIOR TO START OF CONSTRUCTION.

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

5. CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT ALL EXCAVATION AND/OR TRENCHING OPERATIONS SO THAT SPRINKLER SYSTEMS, CURBS, LOCAL SERVICES, CURB BOXES, VALVES, MANHOLES, INLETS, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ANY DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.

6. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. IF THE OWNER SO DIRECTS THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN-UP AND RESTORATION. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATED MATERIAL AND DEBRIS OFF THE SITE AS WORK PROGRESSES.

7. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

8. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKER MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DISRUPTED BY THEIR OPERATIONS.

9. STATION AND OFFSET LOCATIONS ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH VILLAGE OF WINNETKA WATER AND ELECTRIC DEPARTMENT TO SUPPORT AND PROTECT EXISTING LIGHT POLES AND PROVIDE TEMPORARY LIGHTING AS NEEDED, INCIDENTAL TO THE WORK BEING PERFORMED.

11. CONTRACTOR SHALL PROVIDE WEEKLY UPDATES TO OWNER DETAILING UPCOMING ROADWAY RESTRICTIONS, CLOSURES, AND EMERGENCY VEHICLE ACCESS ROUTES.

12. CONTRACTOR SHALL PROVIDE MINIMUM 48-HOUR NOTICE TO RESIDENTS PRIOR TO RESTRICTING ACCESS TO ANY RESIDENTIAL DRIVEWAY OR RESTRICTING ACCESS TO ANY ROADWAY THAT WILL RESTRICT ACCESS TO ANY RESIDENTIAL DRIVEWAY.

13. RESIDENT NOTIFICATIONS SHALL INCLUDE DIRECTION ON WHERE VEHICLES CAN BE PARKED AND AN ESTIMATED DATE WHEN ACCESS IS ANTICIPATED TO BE RESTORED. CONTRACTOR SHALL MAKE ALL EFFORTS POSSIBLE TO MINIMIZE EXTENDED IMPACTS TO RESIDENTS.

14. CONTRACTOR SHALL NOT CLOSE OR RESTRICT MORE THAN 200 FEET OF ROADWAY OVERNIGHT.

15. CONTRACTOR SHALL PROVIDE STEEL PLATING OVER OPEN EXCAVATIONS AT THE END OF EVERY WORKDAY.

16. CONTRACTOR SHALL COLLECT RESIDENTIAL GARBAGE CANS ON GARBAGE DAYS IN WORK AREAS THAT ARE INACCESSIBLE TO GARBAGE COLLECTION VEHICLES AND MOVE THEM TO A LOCATION THAT GARBAGE COLLECTION VEHICLES CAN ACCESS. CONTRACTOR SHALL RETURN RESIDENTIAL GARBAGE CANS AT THE END OF THE DAY.

17. CONTRACTOR MUST MAINTAIN POSTAL SERVICES AND RESIDENTIAL ACCESS TO MAILBOXES.

18. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REPLACE ALL SIGN PANEL ASSEMBLIES IMPACTED BY WORK AND PROVIDE TEMPORARY SIGNAGE AS NECESSARY, INCIDENTAL TO THE WORK BEING PERFORMED.

19. ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE OWNER. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED.

20. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED.

21. FINISHED SURFACES SHALL BE SMOOTH AND EVEN WITH NO ABRUPT OR AWKWARD CHANGES IN GRADE. PAVING AND SEED AREAS ARE TO MEET FLUSH AND SMOOTH.

22. CONTRACTOR SHALL RESTORE (WITH TOPSOIL AND SEEDING OR SODDING) ALL AREAS DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITY. TOPSOIL AND SEEDING OR SODDING RESTORATION OUTSIDE OF DESIGNATED CONSTRUCTION LIMITS WILL BE AT CONTRACTOR'S EXPENSE. SEEDING OR SODDING SHALL BE DETERMINED BY ADJACENT RESTORATION.

EXISTING UTILITIES

23. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AND ALL OTHER PUBLIC AND PRIVATE UTILITIES SO THAT ARRANGEMENTS CAN BE MADE TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AS WELL AS TO PROVIDE ADEQUATE PROTECTION AND INSPECTION THERETO. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

24. SEE MWRD GENERAL NOTES FOR FURTHER NOTIFICATION REQUIREMENTS.

25. THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM AND IS RESPONSIBLE FOR ANY DAMAGE CAUSED.

26. NOT ALL SANITARY AND WATER SERVICES ARE SHOWN ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR LOCATING SERVICES BEFORE EXCAVATING. ANY DAMAGE TO SERVICES SHALL BE REPAIRED BY THE CONTRACTOR INCIDENTAL TO THE CONTRACT.

27. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT CALL FOR REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.

DRAINAGE AND ROADWAY

28. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING AND AFTER THE CONSTRUCTION.

29. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, OR CATCH BASINS. CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORMWATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THEM. CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLAN, IF NECESSARY, AND A TEMPORARY OUTLET SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT DRAINAGE SYSTEM IS BUILT AND IN SERVICE.

30. FOLLOWING EXECUTION OF AN AGREEMENT WITH THE VILLAGE OF WINNETKA, CONTRACTOR IS RESPONSIBLE FOR ALL EROSION CONTROL MEASURES..

31. UNLESS OTHERWISE NOTED, LOCATIONS AND ELEVATIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT FOR GRATES IN THE CURB AND GUTTER AND TO THE CENTER OF THE GRATE/LID FOR ALL OTHER STRUCTURES. LOCATIONS AND ELEVATIONS SHOWN FOR FLARED END SECTIONS ARE AT THE CENTER OPENING OF THE END SECTION. FLAT TOPS AND CONES ARE TO BE TURNED SO THAT THE FRAME IS CLOSEST TO THE CENTER LINE OF THE ROAD OR CENTER OF THE DRIVING LANE, UNLESS OTHERWISE NOTED ON THE STRUCTURE IN THE PLANS. ALL FLAT TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC.

32. DRAINAGE STRUCTURE GRADES SHALL BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS. DRAINAGE STRUCTURES MAY REQUIRE REVISIONS TO MEET EXISTING FIELD CONDITIONS. ANY ADJUSTMENT SHALL BE AS DIRECTED BY THE ENGINEER. PROPOSED RIM ELEVATIONS SHOWN FOR DRAINAGE STRUCTURES IN THE GUTTER REFERENCE THE PROPOSED EDGE OF PAVEMENT ELEVATION.

33. THE PROPOSED DRAINAGE STRUCTURES AND PIPES SHALL BE PROTECTED IMMEDIATELY AFTER THEY ARE CONSTRUCTED UNTIL THE SURFACES THAT DRAIN TO THEM ARE FULLY PAVED OR VEGETATED.

34. STORM SEWER SHALL BE RCCP OF THE TYPE AND DIAMETER NOTED IN THE DRAWINGS IN ACCORDANCE WITH ASTM C-76. JOINTS SHALL CONFORM TO ASTM C-443 FOR FLEXIBLE GASKETS.

35. PROPOSED GRAVITY STORM SEWER PIPE LENGTHS IN THE PIPE SCHEDULES ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR FROM CENTER OF STRUCTURE TO OPENING OF FLARED END SECTION.

MWRD FACILITIES

36. CONTRACTOR SHALL SUPPORT/PROTECT MWRD SEWERS/STRUCTURES/FACILITIES DURING EXCAVATIONS AND AT CROSSINGS. THIS INCLUDES KEEPING VIBRATIONS TO A MINIMUM.

37. QUESTIONS REGARDING ACCESS TO MWRD FACILITIES, FIELD LOCATIONS, MANHOLE ADJUSTMENT TO GRADE, BURIED MANHOLES, OR PRE- AND POST-CONSTRUCTION TELEVISING REQUIREMENTS SHALL BE POSED TO MR. PAUL SOBANSKI OF THE MAINTENANCE AND OPERATIONS DEPARTMENT AT 708-588-4080.

38. WHEN WORKING ADJACENT TO THE ROAD AND UTILIZING DAILY LANE CLOSURES, DROP-OFFS ADJACENT TO THE TRAVEL LANES SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFF SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. DROP-OFFS GREATER THAN THE SPECIFIED MAXIMUM DROP-OFF DEPTH SHOWN IN TABLE 2, CONDITION II OF THE SAFETY 4-21 POLICY WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE NEAREST OPEN TRAFFIC LANE. THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE EXCAVATION REQUIRED FOR THE CONSTRUCTION DURING THE TIME THAT THE ADJACENT LANE IS CLOSED. AS NOTED ABOVE, PRIOR TO REOPENING THE LANE TO TRAFFIC, THE CONTRACTOR SHALL PLACE SUFFICIENT MATERIAL TO REDUCE THE DROP-OFF TO LESS THAN THE SPECIFIED MAXIMUM DROP-OFF DEPTH SHOWN IN TABLE 2, CONDITION II OF THE SAFETY 4-21 POLICY AND ENSURE THAT THE DROP-OFF AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES/DRUMS AT THE END OF EACH WORKDAY. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE AMOUNT OF WORK THAT CAN BE COMPLETED WITHIN THE TIME OF THE DAILY LANE CLOSURE. IF THE ABOVE REQUIREMENTS CAN'T BE MET, AND IT IS DETERMINED THAT OVERNIGHT LANE CLOSURES AND/OR TEMPORARY CONCRETE BARRIER WALL INSTALLATION WILL BE NECESSARY, THEN IDOT WRITTEN APPROVAL WILL BE REQUIRED PRIOR TO THE INSTALLATION OF THESE ITEMS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT. WHERE POSITIVE PROTECTION (TEMPORARY CONCRETE BARRIER PER STD. 704001) IS PROVIDED, THIS REQUIREMENT IS NULLIFIED.

Table 2, Condition II

Drop-off Near the Edge of Traveled Way

Existing Road Type	Normal Posted Speed Limit, NPSL (mph)	Drop-off Depth, D (in.)	TCB is Warranted(2)	Use of TCB may be warranted, based on traffic exposure (2)	Maximum Allowable Total Traffic (Both Directions)Without TCB (3)
2L2W	Up to 35	12 ≤ D ≤ 18		Yes(1)	3.02
2L2W	Up to 35	18 < D ≤ 24		Yes(1)	2.39
2L2W	Up to 35	24 < D ≤ 36		Yes(1)	2.08
2L2W	Up to 35	D > 36	Yes(1)		
2L2W	35<NPSL≤45	12 ≤ D ≤ 18		Yes(1)	1.42
2L2W	35<NPSL≤40	18 < D ≤ 24		Yes(1)	1.12
2L2W	> 45	D > 12	Yes(1)		
4L2W	Up to 35	12 ≤ D ≤ 18		Yes(1)	9.31
4L2W	Up to 35	18 < D ≤ 24		Yes(1)	7.30
4L2W	Up to 35	24 < D ≤ 36		Yes(1)	6.25
4L2W	Up to 35	> 36	Yes(1)		
4L2W	35<NPSL≤45	12 ≤ D ≤ 18		Yes(1)	3.43
4L2W	35<NPSL≤40	18 < D ≤ 24		Yes(1)	2.94
4L2W	> 45	D ≥ 12	Yes(1)		
All	>45	D < 12	No (2)		
All	>45	D ≥ 12	Yes		

FORCE MAIN

39. ALL DUCTILE IRON FORCE MAIN SHALL BE DUCTILE IRON CLASS 55, DESIGNED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51. EXTERIOR OF PIPE SHALL HAVE A BITUMINOUS COATING, AS SPECIFIED IN AWWA C151. INNER SURFACES OF ALL DUCTILE IRON FORCE MAIN SHALL HAVE A CEMENT MORTAR LINING IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C104.

40. FORCE MAIN PIPE SHALL BE PVC PIPING, PRESSURE CLASS 235 PSI, SDR 18, MEETING THE REQUIREMENTS OF AWWA C900. JOINTS SHALL BE PUSH ON JOINTS IN ACCORDANCE WITH AWWA C900 OR CERTA-LOK RESTRAINED JOINT.

41. ALL FITTINGS ON FORCE MAIN SHALL BE DUCTILE IRON MECHANICAL JOINTS IN ACCORDANCE WITH ANSI/AWWA C111/A21.11. JOINTS SHALL BE APPLICABLE FOR USE ONBOTH DUCTILE IRON PIPE AND PVC PIPE. BOLTS ON MECHANICAL JOINTS SHALL BE ASTM A240 STAINLESS STEEL, CONFORMING TO AWWA C111 AND ANSI A21.11. CERTIFICATE TO THAT EFFECT SHALL BE PROVIDED.

42. ALL FORCE MAIN FITTINGS SHALL HAVE A CEMENT MORTAR LINING IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/AWWA C104/A21.4.

43. "MEGA-LUG" RETAINERS SHALL BE USED AT ALL CONNECTIONS OF FORCE MAINS TO BENDS, TEES, CROSSES, REDUCERS, AND OTHER FITTINGS. ALL MECHANICAL JOINTS SHALL HAVE A MINIMUM OF SIX (6) TWIST-OFF NUTS. PUSH ON JOINTS WITHIN THE DEVELOPMENT LENGTH OF ALL FITTINGS SHALL BE RESTRAINED WITH MEGALUG JOINT RESTRAINT. SEE SPECIFICATIONS FOR REQUIRED DEVELOPMENT LENGTHS. THE NUMBER OF PIPES FOR RESTRAINT SHALL BE IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, OR MANUFACTURER RECOMMENDATIONS, WHICHEVER IS GREATER.

44. A 48-HOUR NOTICE IS REQUIRED PRIOR TO ANY FORCE MAIN OR PUMPING STATION SHUT OFF TO NOTIFY AFFECTED AREAS. CONTRACTOR TO NOTIFY THE VILLAGE OF WINNETKA 48 HOURS IN ADVANCE OF ANY REQUIRED OPERATIONS.

45. CONTRACTOR SHALL PROTECT EXISTING FORCE MAIN AT ALL TIMES DURING CONSTRUCTION.

VILLAGE OF WINNETKA, ILL. MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

GENERAL NOTES

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

PROJECT MGR.
MRW

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LEGEND

EXISTING

- EXISTING ROW LINE
- PROPERTY LINE
- EXISTING PERMANENT EASEMENT
- EXISTING FENCE
- LIGHT POLE
- POWER POLE
- GUY WIRE
- SIGN
- DECIDUOUS TREE
- EVERGREEN TREE
- VEGETATION LINE
- DITCH LINE
- EXISTING WETLAND BOUNDARY
- EXISTING CURB & GUTTER
- EXISTING EDGE OF PAVEMENT
- EXISTING UNDERGROUND TELEPHONE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND FIBER
- EXISTING STORM SEWER
- EXISTING PIPE UNDERDRAIN
- EXISTING WATER PIPE
- ABANDONED WATER MAIN
- EXISTING SANITARY SEWER
- EXISTING FORCE MAIN
- EXISTING AERIAL LINE
- EXISTING GAS LINE
- EXISTING FIRE HYDRANT
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING INLET
- EXISTING FLARED END SECTION
- EXISTING HANDHOLE
- EXISTING GAS VENT PIPE

PROPOSED

- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION
- RIPRAP
- EXISTING STRUCTURE REMOVAL
- EXISTING STRUCTURE TO BE ABANDONED
- LINEAR ITEM TO BE ABANDONED
- LINEAR ITEM TO BE REMOVED
- TEMPORARY CONSTRUCTION FENCE
- TEMPORARY CHAIN LINK FENCE WITH OPAQUE SCREENING, 8'
- PERIMETER EROSION BARRIER
- FLOATING SILT CURTAIN
- SEDIMENT SOCK
- PROPOSED CURB & GUTTER
- PROPOSED EDGE OF PAVEMENT
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED FORCE MAIN
- PROPOSED STORM SEWER
- PROPOSED PIPE UNDERDRAIN
- PROPOSED WATER MAIN
- PROPOSED SANITARY SEWER
- PROPOSED FORCE MAIN
- PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED INLET
- PROPOSED FLARED END SECTION
- PROPOSED HANDHOLE
- PROPOSED DRAIN CLEANOUT

SEE INDIVIDUAL SHEETS FOR ADDITIONAL LEGENDS

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/15/26

LEGEND

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

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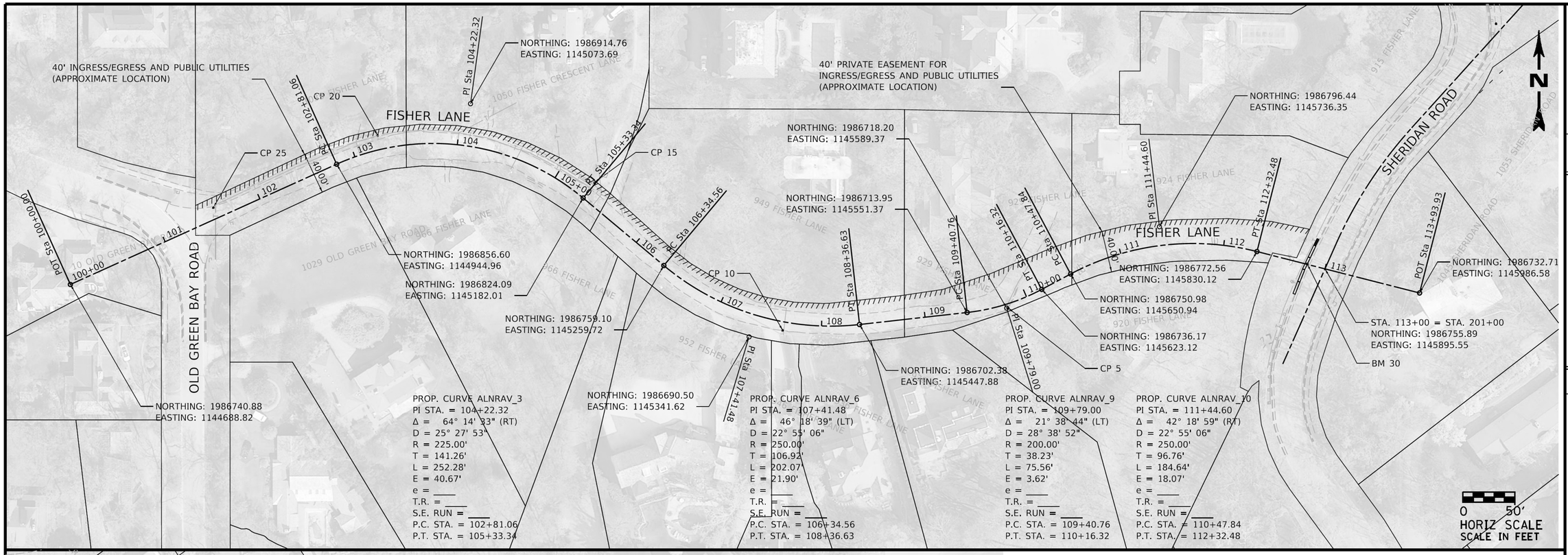
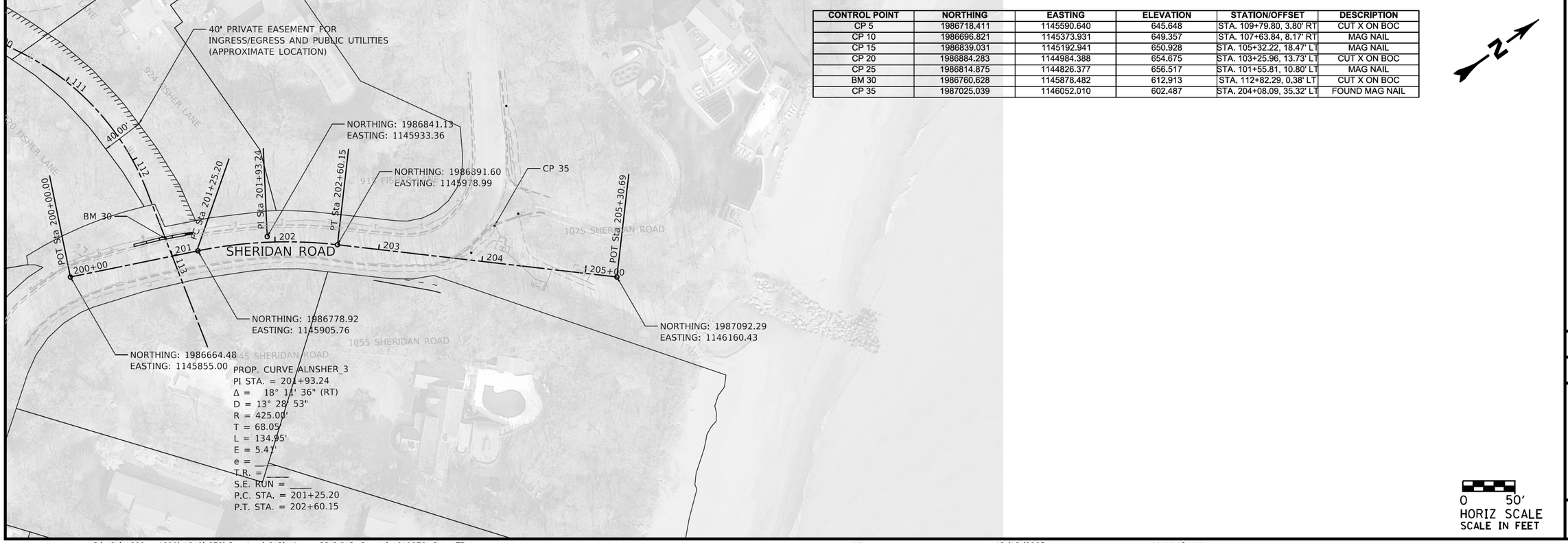
4





CONTROL POINT	NORTHING	EASTING	ELEVATION	STATION/OFFSET	DESCRIPTION
CP 5	1986718.411	1145590.640	645.648	STA. 109+79.80, 3.80' RT	CUT X ON BOC
CP 10	1986696.821	1145373.931	649.357	STA. 107+63.84, 8.17' RT	MAG NAIL
CP 15	1986839.031	1145192.941	650.928	STA. 105+32.22, 18.47' LT	MAG NAIL
CP 20	1986884.283	1144984.388	654.675	STA. 103+25.96, 13.73' LT	CUT X ON BOC
CP 25	1986814.875	1144826.377	656.517	STA. 101+55.81, 10.80' LT	MAG NAIL
BM 30	1986760.628	1145878.482	612.913	STA. 112+82.29, 0.38' LT	CUT X ON BOC
CP 35	1987025.039	1146052.010	602.487	STA. 204+08.09, 35.32' LT	FOUND MAG NAIL

VILLAGE OF WINNETKA, ILL.
MARCH 10, 1869

NO.	REVISIONS	DATE:
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ALIGNMENTS, TIES, BENCHAMRKS, AND CONTROL POINTS

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

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SHEET
5

SAN MH 1004
RIM: 656.47
INV: 648.67 6-8" CLAY NW
INV: 646.24 4-6" CLAY E
INV: 646.04 10-12" CLAY W
TN 647.75 GV ON CLAY?

MH 1003
RIM: 656.47
INV: 653.12 4-6" PVC N
INV: 653.17 4-6" CLAY S

1039 FISHER LANE

WATER VV 1341
RIM: 656.18
TN: 652.73
TOP: 651.58
SD: 650.98

STORM MH 1628
RIM: 654.13
SD: 650.88 TO DEBRIS

SAN MH 1536
RIM: 654.93
INV: 646.53 8-10" BRICK N
INV: 646.73 6" CLAY NE
INV: 646.48 8-10" BRICK W
INV: 646.83 6" CLAY NW

OLD GREEN BAY ROAD

FISHER LANE

1050 FISHER CRESCENT LANE

10 OLD GREEN BAY ROAD

100+00

SAN MH 1002
RIM: 656.57
INV: 645.62 10-12" BRICK E
INV: 645.57 10-12" BRICK S

WATER VV 1000
RIM: 656.27
TN: 652.77
TOP: 651.27
SD: 649.77

1029 OLD GREEN BAY ROAD

SAN FM MH 1001
RIM: 656.26
INV: 651.12 6" CAST N
INV: 650.59 12" RCP S

966 FISHER LANE

MATCHLINE STA 105+00

0 20'
SCALE IN FEET

STORM MH 2011
RIM: 650.58
INV: 647.50 6" PVC N
INV: 647.50 6" PVC N
INV: 647.48 10" PVC S
SD: 646.53

STORM MH 1805
RIM: 650.68
INV: 647.28 10" PVC N
INV: 647.23 10" PVC SE
SD: 646.33

SAN MH 2258
RIM: 647.65
INV: 634.20 8" CLAY E
INV: 634.45 4" ?? SW
INV: 634.50 6" PVC W
INV: 643.45 6" PVC W I/DROP
INV: 634.20 4" ?? NW

949 FISHER LANE

929 FISHER LANE

FISHER CRESCENT LANE

MATCHLINE STA 105+00

105+00

FISHER LANE

MATCHLINE STA 109+50

930 FISHER LANE

966 FISHER LANE

WATER VV 1900
RIM: 650.86
TN: 646.86
TOP: 645.46
SD: 644.36

WATER VV 1913
RIM: 650.77
TN: 646.67
TOP: 645.22
SD: 644.42

952 FISHER LANE

STORM MH 2113
RIM: 648.22
SD: 646.12 TO DEBRIS

STORM MH 1963
RIM: 649.00
SD: FULL OF DEBRIS

936 FISHER LANE

0 20'
SCALE IN FEET

VILLAGE OF WINNETKA, ILL.
MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

EXISTING CONDITIONS
FISHER LANE - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

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MRW

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S:\JOL\1600--1699\1619\070\Drawings\CAD\Micros-SS4\CAD_Sheets\1619070-Sht-ExistingConditions-FisherLane-1.dgn mattl 12/18/2025 11:44:33 AM

929 FISHER LANE

STORM MH 2898
RIM: 638.48
INV: 628.33 12" PVC E
INV: 635.88 4" PVC S
INV: 633.28 12" PVC W
SD: 626.48

SAN MH 2852
RIM: 631.75
INV: 625.30 6" CLAY N
INV: 624.80 8" CAST E
INV: 625.25 4" CAST S
INV: 625.10 8-10" CLAY W

924 FISHER LANE

STORM MH 3504
RIM: 621.70
INV: 611.55 12" PVC E
INV: 616.50 12" PVC W
SD: 610.20

STORM MH 3463
RIM: 611.95
INV: 604.75 20" PVC N
INV: 604.80 20" PVC S
INV: 607.38 12" PVC SW
SD: 603.60

WATER VV 3275
RIM: 611.93
TOP: 603.62 W
TOP: 603.62 N/S

STORM INLET 3056
RIM: 602.89
INV: XXX 12" RCP N

STORM MH 3059
RIM: 603.08
INV: 591.58 48" RCP N
INV: 591.58 48" DI S

1055 SHERIDAN ROAD

FISHER LANE

SHERIDAN ROAD

MATCHLINE STA 109+50

1+10+00

STORM MH 2454
RIM: 645.67
INV: 637.97 12" PVC E
INV: 640.67 12" PVC W
INV: 640.62 12" PVC SW
SD: 636.77

920 FISHER LANE

STORM MH 2851
RIM: 630.86
INV: 621.11 12" PVC E
INV: 624.76 12" PVC W
INV: 626.46 6" PVC W
SD: 617.56

WATER VV 2699
RIM: 644.95
TN: 639.55
TOP: 638.05
SD: 636.45

STORM MH 3464
RIM: 612.68
INV: 607.98 12" PVC E
INV: 608.40 12" PVC W
SD: 606.48

STORM MH 2435
RIM: 645.35
INV: 640.80 12" PVC E
INV: 642.25 12" PVC W
SD: 639.15

STORM MH 3449
RIM: 613.90
INV: 605.30 20" PVC N
INV: 605.50 20" PVC S
INV: 610.20 8-10" PVC W
SD: 603.90

STORM MH 2255
RIM: 645.35
INV: 640.75 12" PVC E
SD: 640.65

STORM MH 3118
RIM: 604.99
INV: 591.89 48" DI N
INV: 599.79 12" DI E
INV: 592.79 48" RCP S
INV: 596.57 20" DI W

STORM MH 3174
RIM: 606.74
INV: 593.48 48" RCP N
INV: 597.85 48" RCP S

SAN MH 3227
RIM: 612.475
INV: 607.06 8" VCP N/S
INV: 607.06 6" RCP W

STORM MH 3171
RIM: 615.33
INV: 598.42 48" RCP N
INV: 602.87 48" RCP SW

1045 SHERIDAN ROAD

WATER VV 3275
RIM: 617.419
TOP:X N/S

2+00+00

N

0 20'
SCALE IN FEET

VILLAGE OF WINNETKA, ILL.
MARCH 10, 1869

NO.	REVISIONS	DATE:
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EXISTING CONDITIONS
FISHER LANE - 2
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

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MRW

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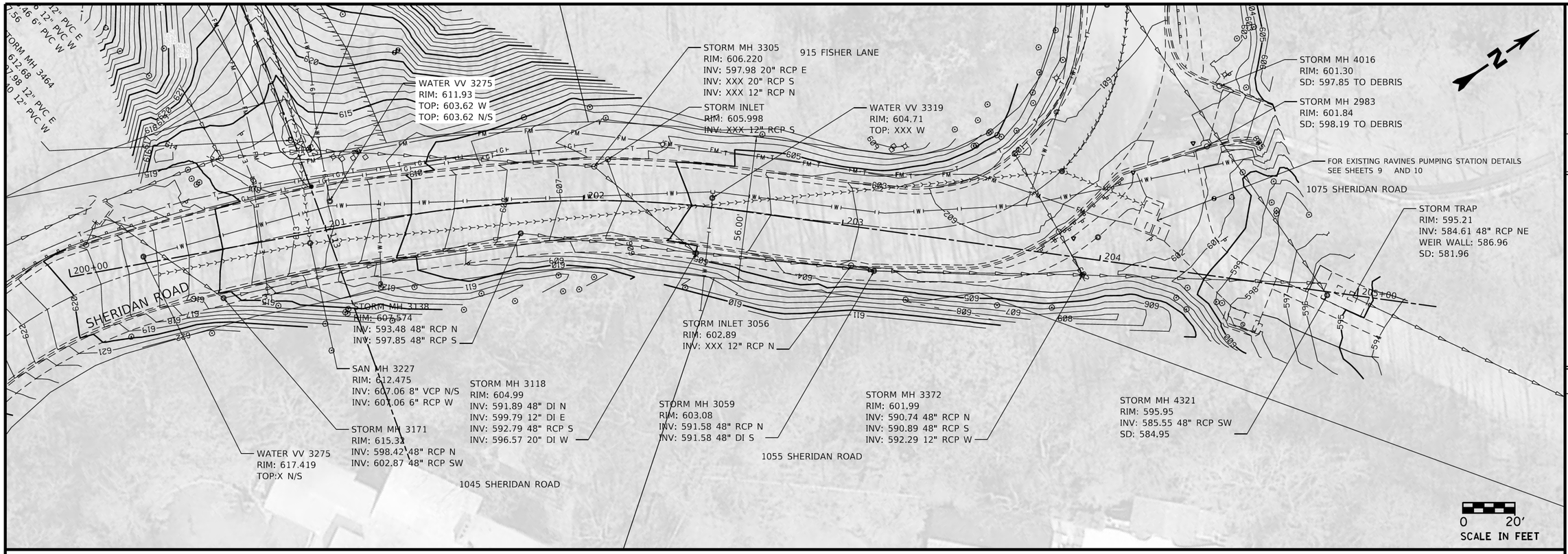
SHEET
7



VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

EXISTING CONDITIONS
SHERIDAN ROAD - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

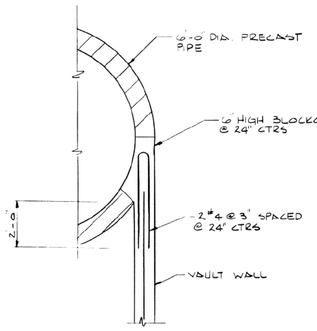
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

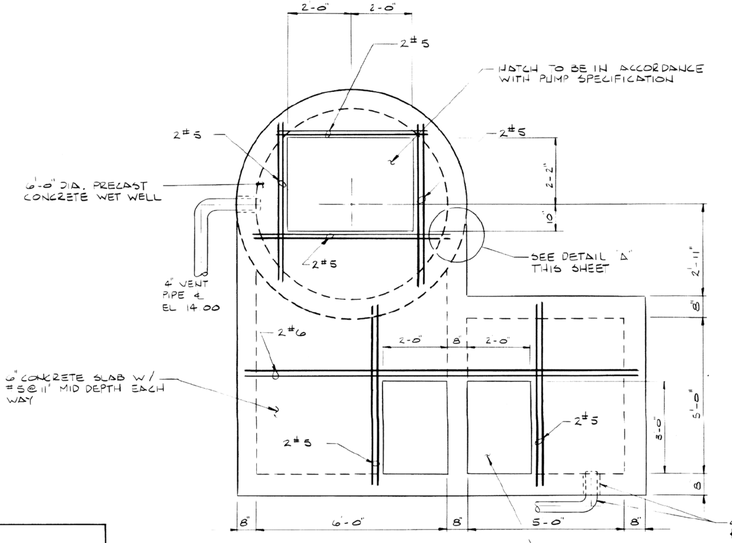
PROJECT MGR.
MRW

STRAND ASSOCIATES®

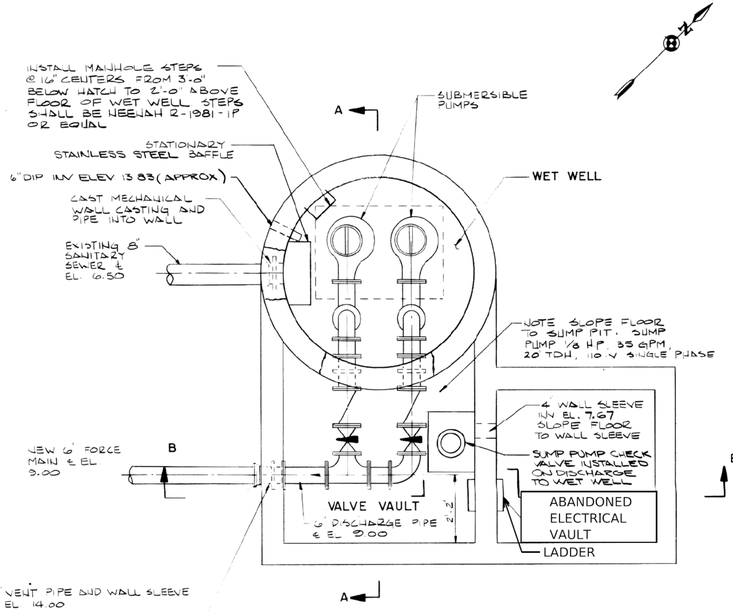
SHEET
8



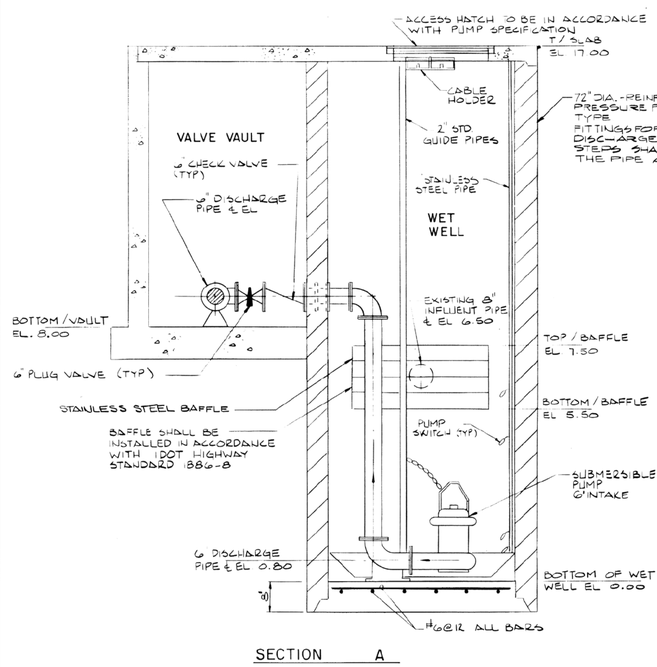
DETAIL "A"



TOP PLAN

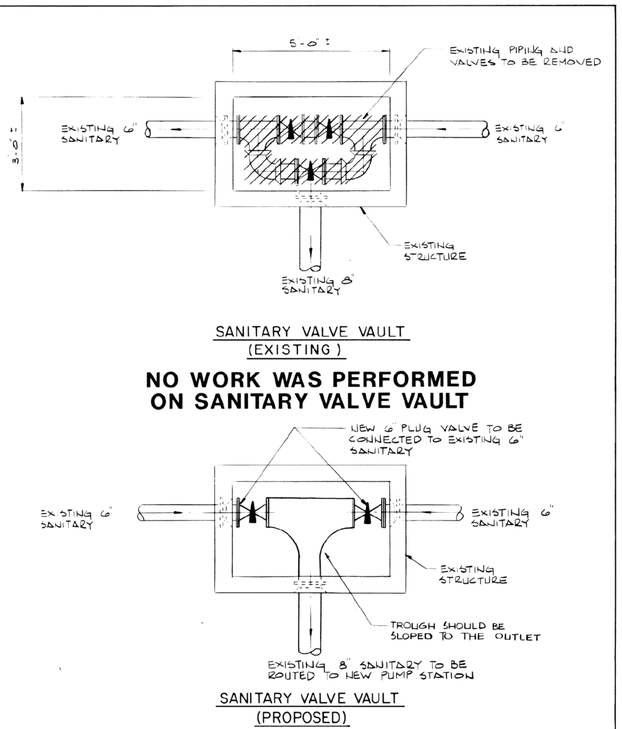


LOWER PLAN



SECTION A

SECTION B



SANITARY VALVE VAULT
(EXISTING)

NO WORK WAS PERFORMED ON SANITARY VALVE VAULT

SANITARY VALVE VAULT
(PROPOSED)

OVERLAYS SHEET NO | RECEIVED

No.	DATE	BY	REVISION
1	1/5/26		ISSUED FOR BID

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869

EXISTING CONDITIONS - RAVINES PUMPING STATION STRUCTURL AND MECHANICAL DETAILS

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

No.	DATE	BY	REVISION	No.	DATE	BY	REVISION

SCALE 1/2" = 1'-0"
DRAWN BY FJS DATE 8/31/83
CHECKED BY DATE
APPROVED BY DATE

RJN ENVIRONMENTAL ASSOCIATES, INC.
CONSULTING ENGINEERS

PROJECT
VILLAGE OF WINNETKA, ILLINOIS
REHABILITATION OF THE SANITARY SEWER SYSTEM

TITLE
RAVINE PUMP STATION
STRUCTURAL AND MECHANICAL DETAILS

DATE 6-24-83
PROJECT No. 244
SHEET 60 OF 68

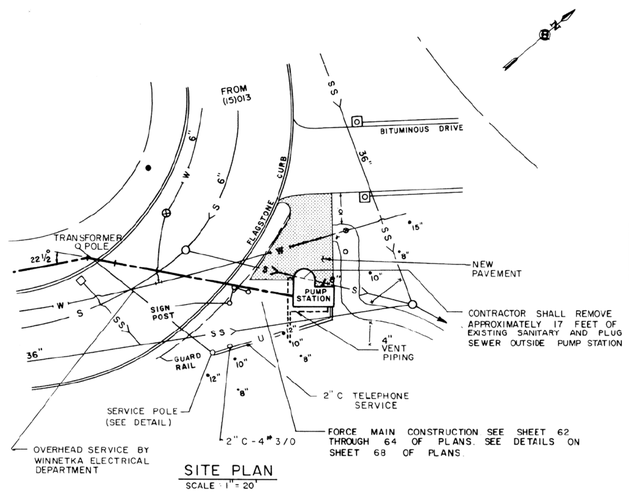
JOB NO. 1619.070
PROJECT MGR. MRW

STRAND ASSOCIATES®

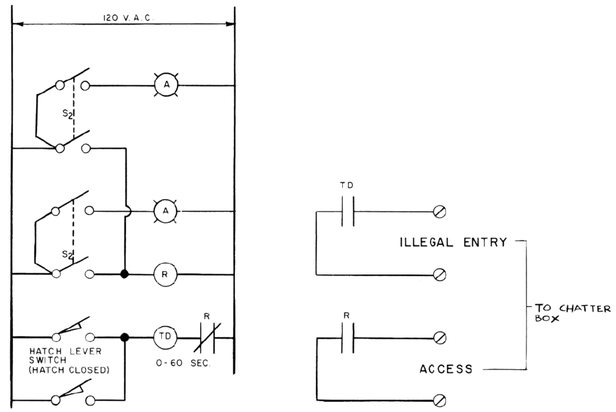
SHEET 9

THESE DRAWINGS HAVE BEEN PREPARED IN PART WITH INFORMATION FURNISHED BY OTHERS. R J N ENVIRONMENTAL ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

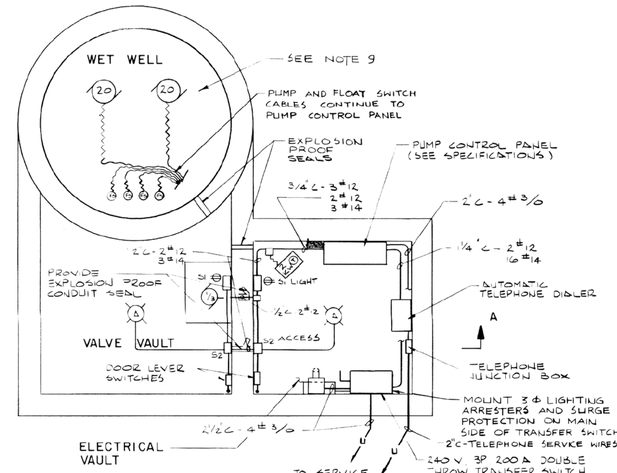
RECORD DRAWINGS



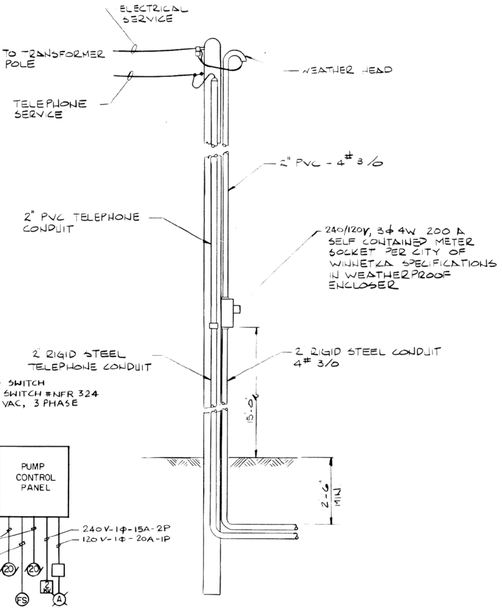
SITE PLAN
SCALE 1" = 20'

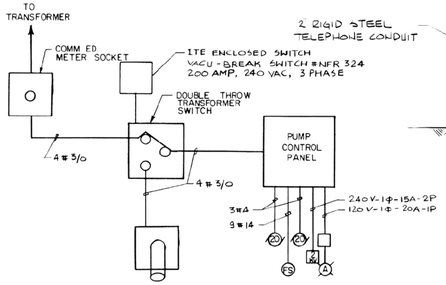


ACCESS & ENTRY INPUT SIGNAL SCHEMATIC
(CONTRACTOR TO MOUNT RELAYS IN PUMP CONTROL PANEL)



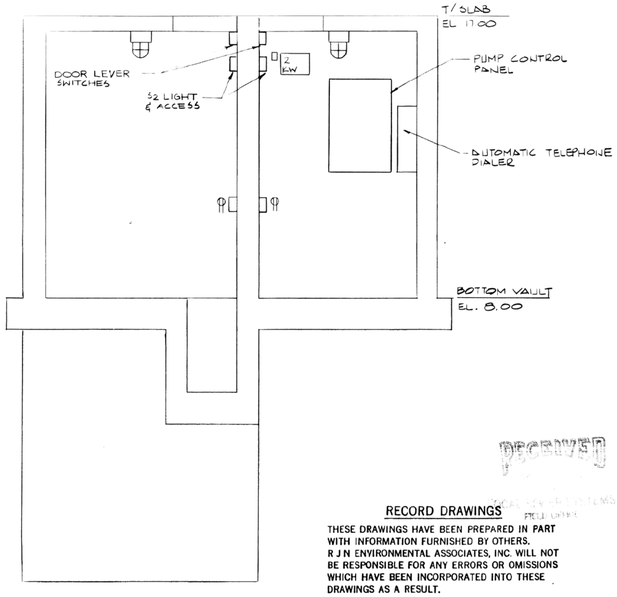
LOWER PLAN





SINGLE LINE DIAGRAM

PUMP STATION SERVICE POLE
SERVICE VOLTAGE 240/120V, 3 Φ, 4 WIRE 200 A



SECTION A

RECORD DRAWINGS

THESE DRAWINGS HAVE BEEN PREPARED IN PART WITH INFORMATION FURNISHED BY OTHERS. R J N ENVIRONMENTAL ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

NOTES

1. ALL CONDUITS SHALL BE RIGID STEEL AND MAY BE INSTALLED EXPOSED.
2. ALL UNDESIGNATED CONDUITS TO BE 1/2" C - 2 #12
3. MOUNT SWITCHES 6" BELOW CEILING MOUNT RECEPTACLES 48" OFF FLOOR, ALL TO BE WEATHERPROOF
4. (S) APPLETON VSI STYLMASTER CAT. # VPX1050G WITH 100 WATT INCANDESENT LAMP OR EQUAL.
5. WINNETKA ELECTRICAL DEPARTMENT WILL PROVIDE TRANSFORMER INSTALLATION AND OVERHEAD SERVICE TO NEW SERVICE POLE THE ELECTRICAL DEPARTMENT WILL ALSO PROVIDE AND INSTALL THE 35' NEW SERVICE POLE. THE CONTRACTOR SHALL CONTACT THE ELECTRICAL DEPARTMENT FOR A COST OF THIS INSTALLATION AND INCLUDE SAME IN BID PRICE
6. CONTRACTOR SHALL SUPPLY ALL CONDUIT AND WIRE TO TOP OF SERVICE POLE FOR CONNECTION BY WINNETKA ELECTRICAL DEPARTMENT.
7. ENGINE GENERATOR MANUFACTURER TO SUPPLY CROUSE HINDS 4W 4P RECEPTACLE STYLE 1, 600V ARE A20417-200 AND CROUSE HINDS 4W 4P PLUG STYLE 1, 600V AP2045B-522. REFER TO SPECIFICATIONS OR EQUAL
8. WORK ITEM 11, FORCE MAIN CONSTRUCTION GOVERNS THE WORK BEYOND THE 11 1/4° SBT BEND AT THE DISCHARGE END OF THE PUMP STATION VALVE VAULT.
9. WET WELL CLASSIFIED CLASS I, DIVISION 1, GROUP D HAZARDOUS LOCATION. ELECTRICAL EQUIPMENT AND INSTALLATION METHODS SHALL CONFORM TO THE REQUIREMENTS OF NEC, ARTICLE 500 FOR THE LISTED CLASSIFICATION
10. VALVE VAULT CLASSIFIED CLASS I, DIVISION 2, GROUP D HAZARDOUS LOCATION. ELECTRICAL EQUIPMENT AND INSTALLATION METHODS SHALL CONFORM TO THE REQUIREMENTS OF NEC, ARTICLE 500 FOR THE LISTED CLASSIFICATION.

OVERLAYS SHEET NO	RECEIVED
5A	●
5E	●
TBJ	●

No.	DATE	BY	REVISION	No.	DATE	BY	REVISION

SCALE NONE
DRAWN BY FJS DATE 4/1/83
CHECKED BY DATE
APPROVED BY DATE

R J N ENVIRONMENTAL ASSOCIATES, INC.
CONSULTING ENGINEERS

PROJECT
VILLAGE OF WINNETKA, ILLINOIS
REHABILITATION OF THE SANITARY SEWER SYSTEM

TITLE
RAVINE PUMP STATION
ELECTRICAL DETAILS

DATE 6-24-83
PROJECT No. 244
SHEET 61 OF 68

VILLAGE OF WINNETKA, ILL. MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

EXISTING CONDITIONS - RAVINES PUMPING STATION
ELECTRICAL DETAILS
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070
PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 10

STOP SIGN TO BE TEMPORARILY RELOCATED

34 SY OF PAVEMENT REMOVAL

DECORATIVE BRICK MONUMENT TO BE PROTECTED

100 SF OF SIDEWALK REMOVAL

FORCE MAIN TO BE ABANDONED STA. 101+41, 12' RT TO STA. 105+00, 2' LT

OLD GREEN BAY ROAD

FISHER LANE

MATCHLINE STA 504+00

MATCHLINE STA 105+00

100+00

101

102

103

104

GRIPPER PLUG WITHIN EXISTING FORCE MAIN. SEE SHEET 25 FOR GRIPPER PLUG DETAIL. (PAID FOR AS MECHANICAL CAP)

EXISTING 6" FORCE MAIN

EXISTING 12" SANITARY SEWER

1039 FISHER LANE

1050 FISHER CRESCENT LANE

10 OLD GREEN BAY ROAD

1029 OLD GREEN BAY ROAD

966 FISHER LANE

GENERAL NOTES

1. SEE SHEET 26 FOR EROSION CONTROL DETAILS.

FISHER CRESCENT LANE

MATCHLINE STA 105+00

MATCHLINE STA 109+50

105+00

106

107

108

109

TREE TRUNK PROTECTIONS (TYP.)

FORCE MAIN TO BE ABANDONED STA. 105+00, 2' RT TO STA. 109+50, 9' LT

32 SY OF PAVEMENT REMOVAL

EXISTING 6" FORCE MAIN

FISHER LANE

949 FISHER LANE

929 FISHER LANE

930 FISHER LANE

966 FISHER LANE

952 FISHER LANE

936 FISHER LANE

LEGEND

- REMOVAL ITEM
- LINEAR REMOVAL ITEM
- LINEAR ABANDONMENT ITEM
- R — STRUCTURE TO BE REMOVED
- AB — STRUCTURE TO BE ABANDONED
- PERIMETER EROSION BARRIER
- INLET FILTER
- TREE TRUNK PROTECTION

N

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

REMOVALS AND EROSION CONTROL PLAN
FISHER LANE - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

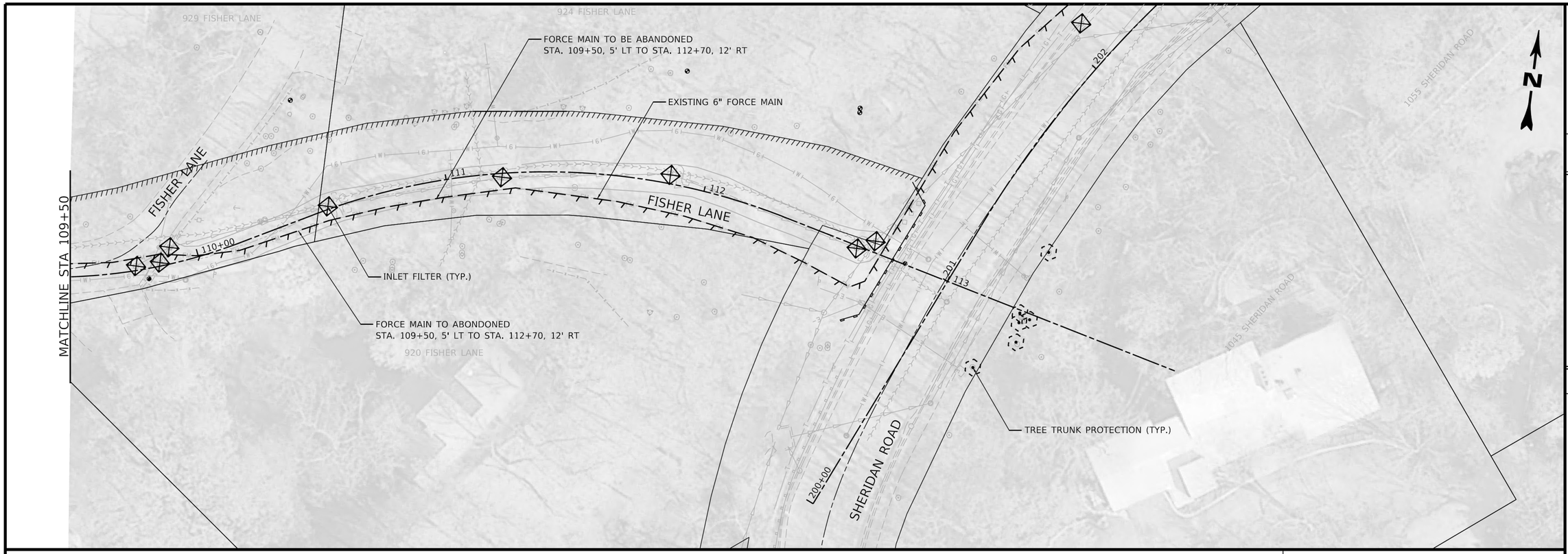
JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 11

S:\JOL\1600--1699\1619\070\Drawings\CAD\Micros-SS4\CAD_Sheets\1619070-Sht-RemovalsandErosionControl-FisherLane-1.dgn mattli 12/18/2025 11:45:40 AM



GENERAL NOTES

1. SEE SHEET 26 FOR EROSION CONTROL DETAILS.

LEGEND

- REMOVAL ITEM
- LINEAR REMOVAL ITEM
- LINEAR ABANDONMENT ITEM
- STRUCTURE TO BE REMOVED
- STRUCTURE TO BE ABANDONED
- PERIMETER EROSION BARRIER
- INLET FILTER
- TREE TRUNK PROTECTION

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

REMOVALS AND EROSION CONTROL PLAN
FISHER LANE - 2
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

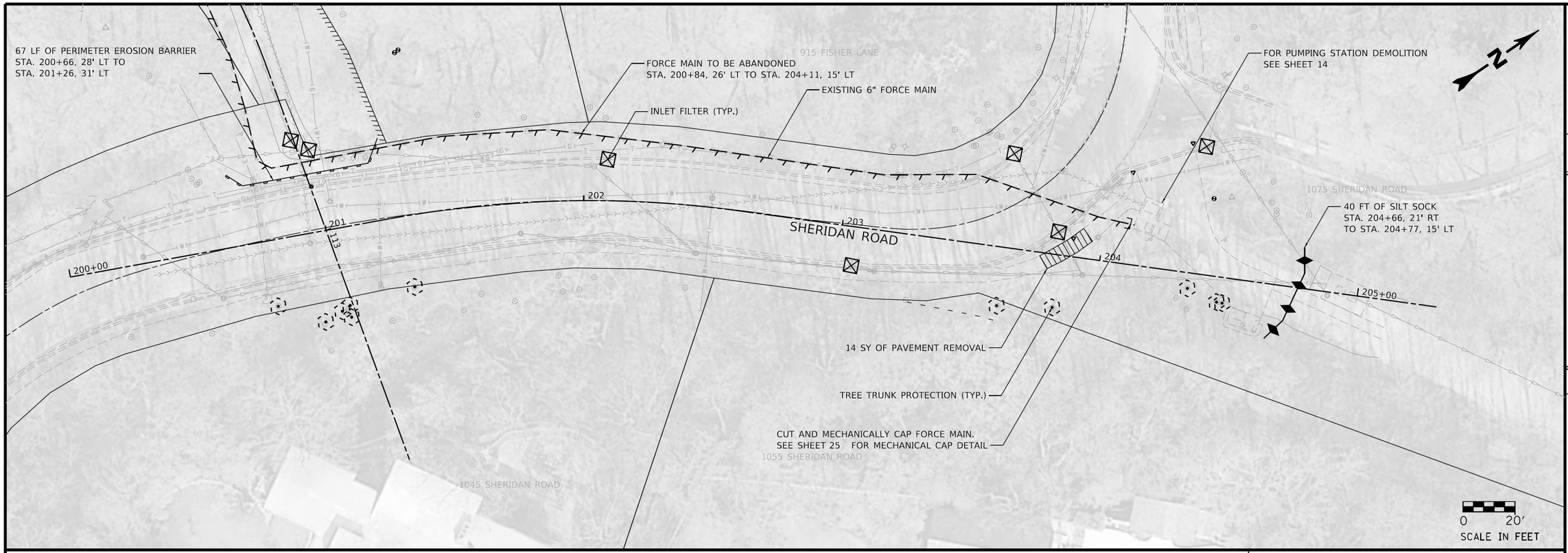
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 12



GENERAL NOTES

1. SEE SHEET 26 FOR EROSION CONTROL DETAILS.

LEGEND

- REMOVAL ITEM
- LINEAR REMOVAL ITEM
- LINEAR ABANDONMENT ITEM
- STRUCTURE TO BE REMOVED
- STRUCTURE TO BE ABANDONED
- PERIMETER EROSION BARRIER
- INLET FILTER
- TREE TRUNK PROTECTION

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

REMOVALS AND EROSION CONTROL PLAN
SHERIDAN ROAD - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 13

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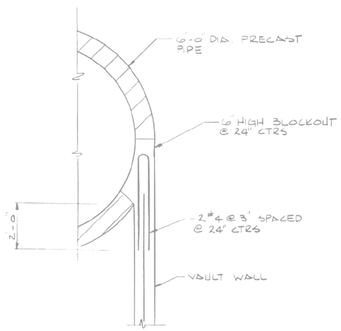
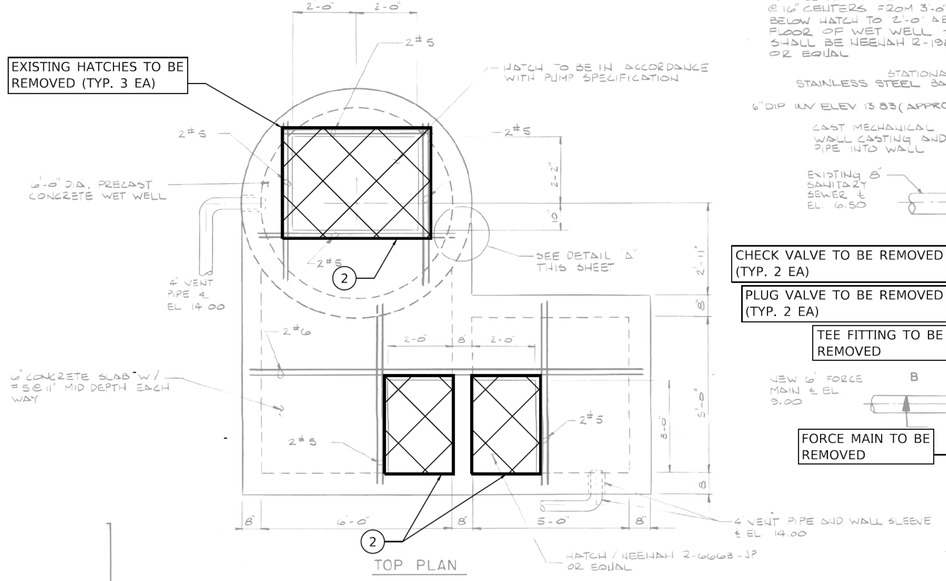
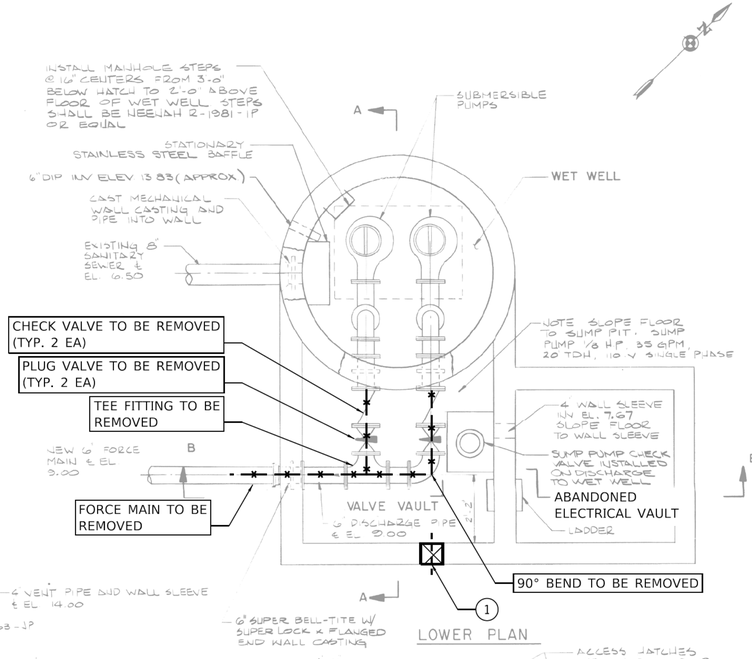


DETAIL "A"



TOP PLAN



LOWER PLAN

NOTES:

1. CONTRACTOR TO COMPLETE THE INSTALLATION AND TESTING OF THE FORCE MAIN BEFORE THE RAVINES PUMPING STATION DEMOLITION AND IMPROVEMENTS BEGIN.

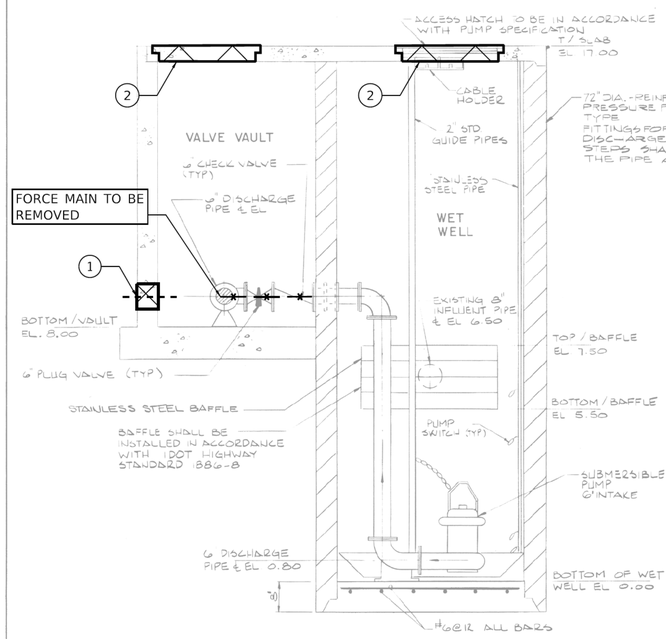
2. CONTRACTOR SHALL PHASE WORK TO ALLOW FOR CONTINUAL OPERATION OF THE RAVINES PUMPING STATION DURING CONSTRUCTION. THIS MAY REQUIRE TEMPORARY BLIND FLANGES ON ACTIVE PIPING.

3. IF RAVINES PUMPING STATION IS TO BE TURNED OFF, CONTRACTOR SHALL NOTIFY OWNER TWO DAYS IN ADVANCE. ENGINEER ESTIMATES APPROXIMATELY 45 MINUTES UNTIL THE WET WELL REACHES CAPACITY. CONTRACTOR CAN PROVIDE ON SITE PUMPING THROUGH THE FORCE MAIN QUICK CONNECT TO KEEP THE STATION OPERATIONAL FOR THE DURATION OF THE WORK.

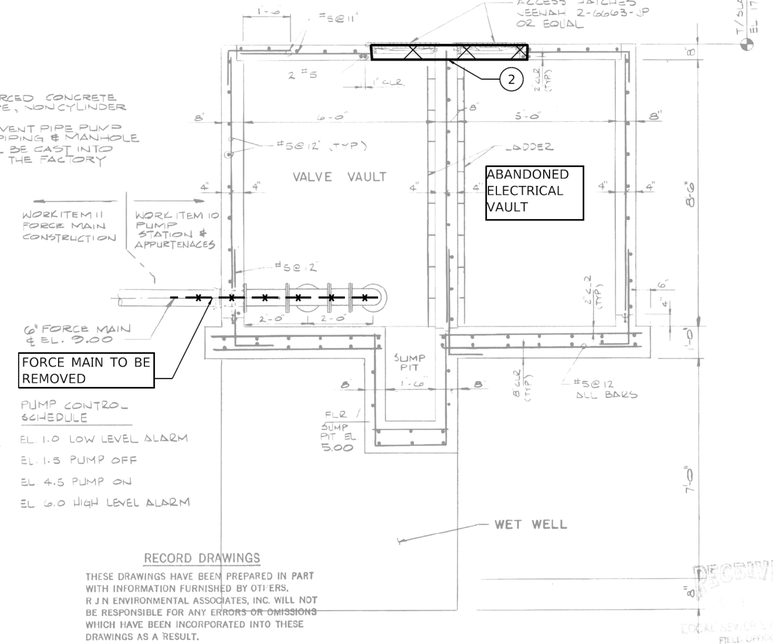
KEY NOTES:

(1) CORE OPENING FOR NEW 6" DIAMETER FORCE MAIN.

(2) SAW CUT PERIMETER OF EXISTING DOOR FRAME AND REMOVE. CONTRACTOR TO COORDINATE SAW CUT WITH NEW DOOR INSTALLATION ON SHEET 15.



SECTION A



SECTION B

RECORD DRAWINGS

THESE DRAWINGS HAVE BEEN PREPARED IN PART WITH INFORMATION FURNISHED BY OTHERS. R J N ENVIRONMENTAL ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

DEMOLITION PLAN
RAVINES PUMPING STATION
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

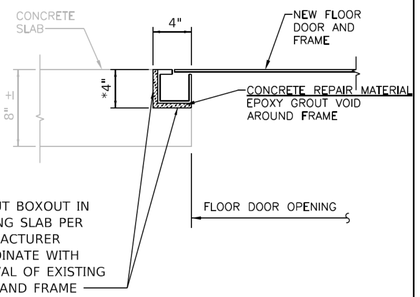
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

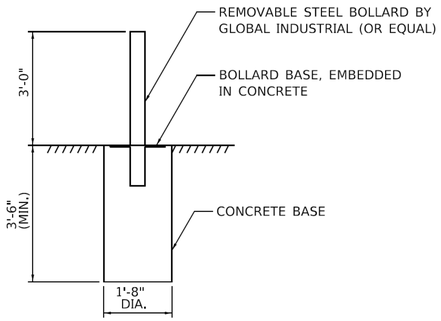
SHEET 14



* VERIFY DIMENSION W/ DOOR MANUFACTURER

NEW FLOOR DOOR IN EXISTING SLAB DETAIL

NOT TO SCALE



CONCRETE SHALL HAVE A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI, MINIMUM CEMENT CONTENT OF 6 BAGS PER CUBIC YARD, AND MAXIMUM OF 5.5 GALLONS OF WATER PER SACK. THE SLUMP OF CONCRETE SHALL BE 2 TO 3.5 INCHES. AN AIR-ENTRAINING ADMIXTURE CONFORMING TO ASTM C260, EQUAL TO "DAREX" SHALL BE USED IN CONCRETE TO OBTAIN 4% TO 7% AIR CONTENT. A WATER REDUCER MEETING ASTM C494 TYPE A REQUIREMENTS SHALL BE INCLUDED IN THE MIX. MIXES SHALL BE DESIGNED IN ACCORDANCE WITH ACI 211.1

GUARD POST DETAIL

NOT TO SCALE

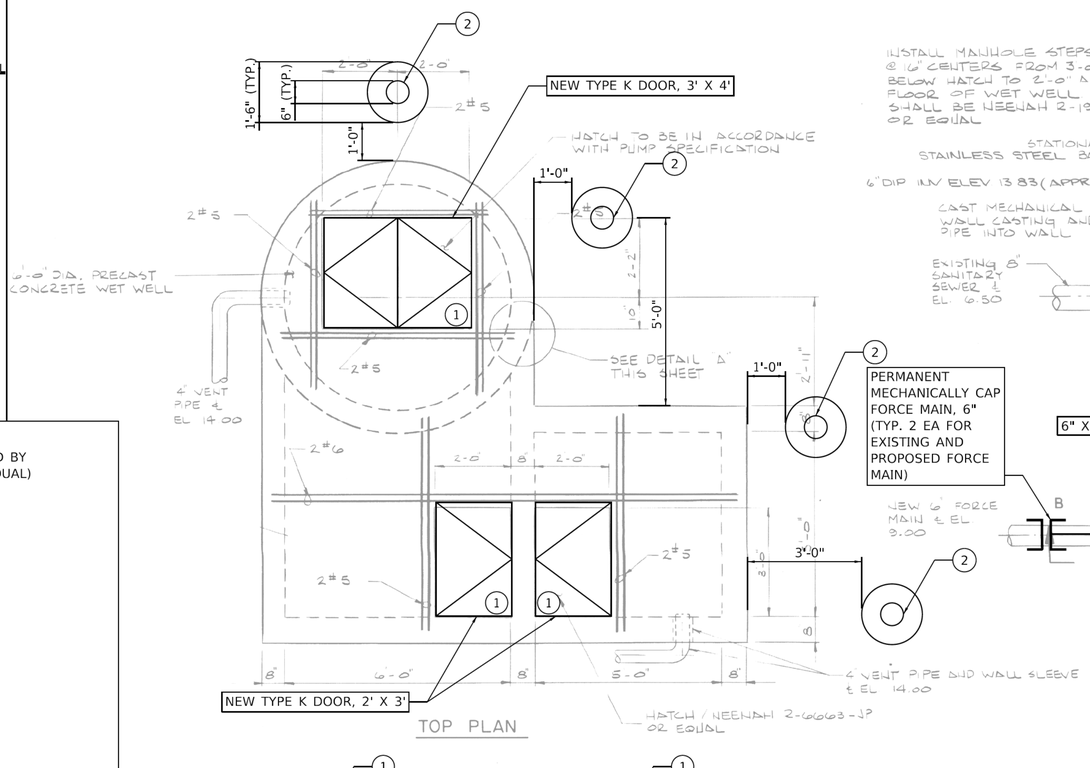
NOTES:

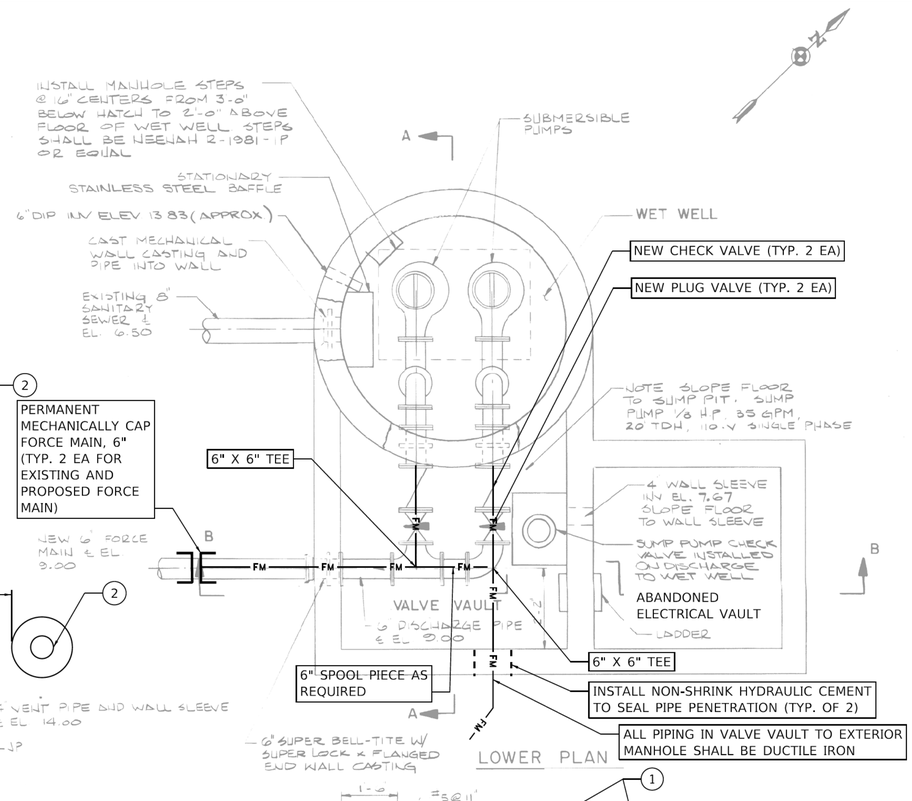
1. CONTRACTOR TO COMPLETE THE INSTALLATION OF THE FORCE MAIN BEFORE THE RAVINE PUMPING STATION DEMOLITION AND IMPROVEMENTS BEGIN.
2. CONTRACTOR SHALL NOTIFY OWNER TWO DAYS IN ADVANCE WHEN THE RAVINES PUMPING STATION IS TO BE TURNED OFF. ENGINEER ESTIMATES APPROXIMATELY 45 MINUTES UNTIL THE WET WELL REACHES CAPACITY.
3. CONTRACTOR SHALL PROVIDE ON SITE PUMPING THROUGH THE NEW QUICK CONNECT IF NECESSARY TO KEEP THE STATION OPERATIONAL FOR THE DURATION OF THE WORK.
4. CONTRACTOR SHALL REPAIR ANY DAMAGED CONCRETE IN ACCORDANCE WITH SECTION 03 01 30 - CONCRETE SURFACE REPAIR OF THE TECHNICAL SPECIFICATIONS.

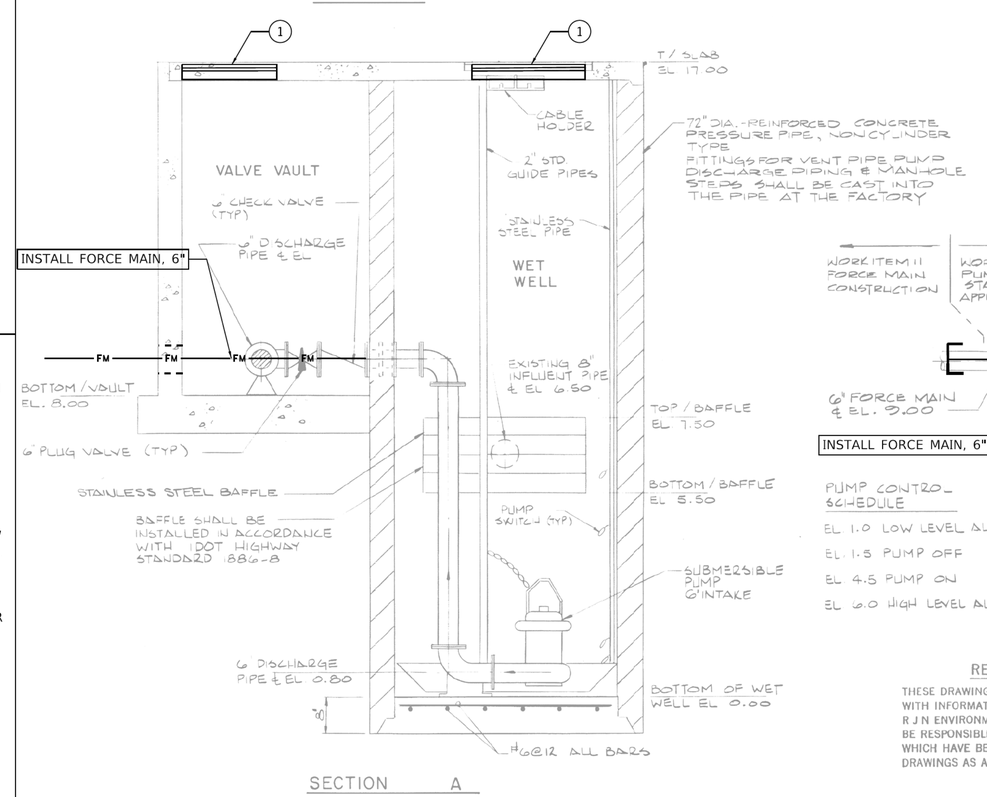
KEY NOTES:

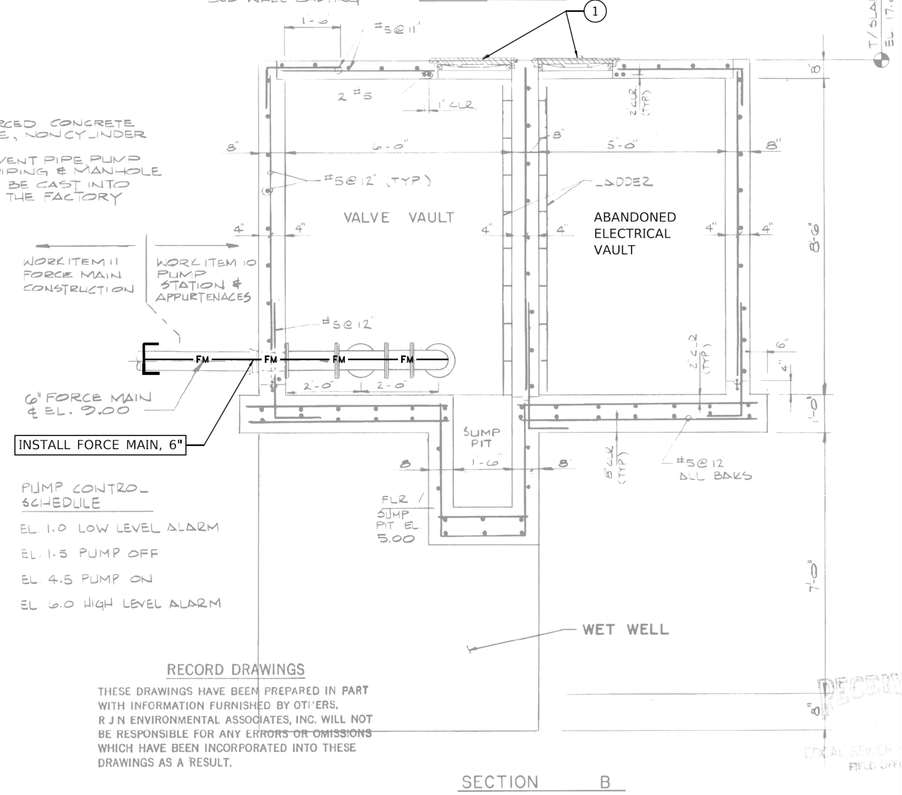
(1) PROVIDE TYPE K DOOR IN OPENING. SEE DETAIL THIS SHEET. CONTRACTOR SHALL FIELD VERIFY OPENING DIMENSIONS AFTER REMOVING EXISTING FRAME.

(2) PROVIDE REMOVABLE GUARD POST. SEE DETAIL THIS SHEET. COORDINATE FINAL LOCATION WTIH OWNER.









RECORD DRAWINGS

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SECTION B

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

PUMPING STATION IMPROVEMENTS PLAN
RAVINES PUMPING STATION

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

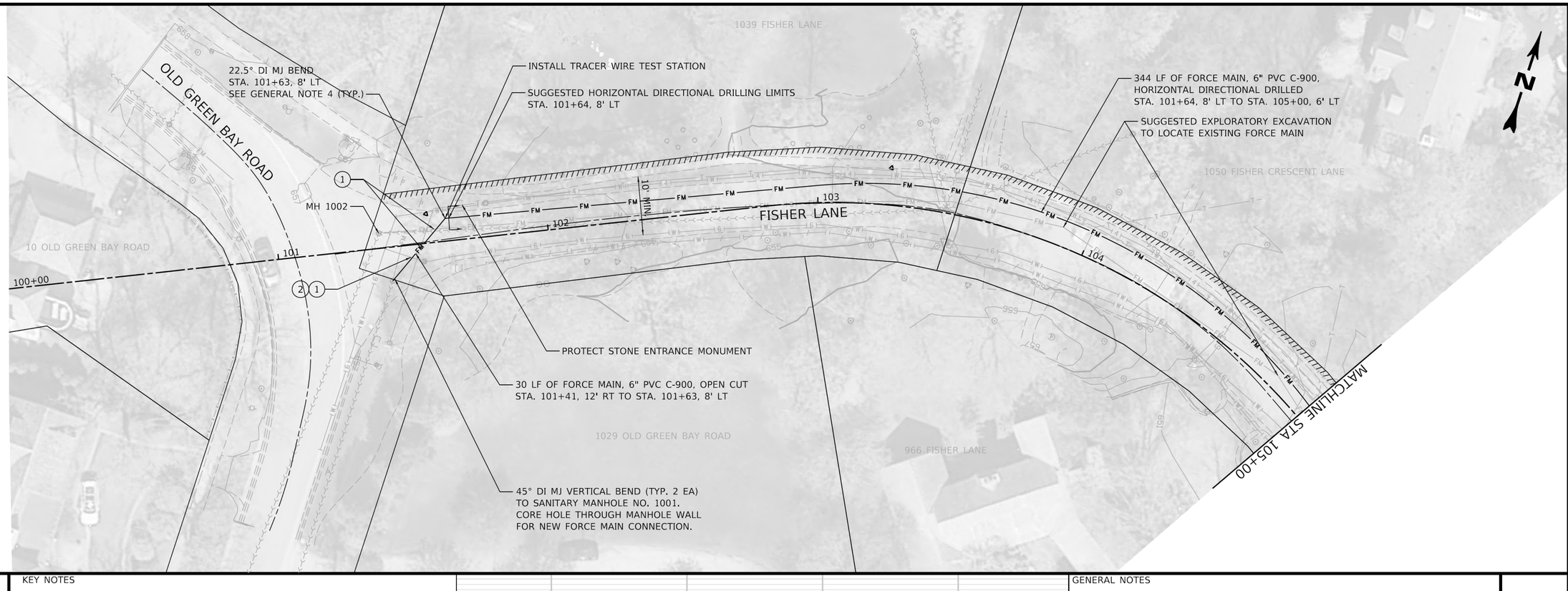
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 15

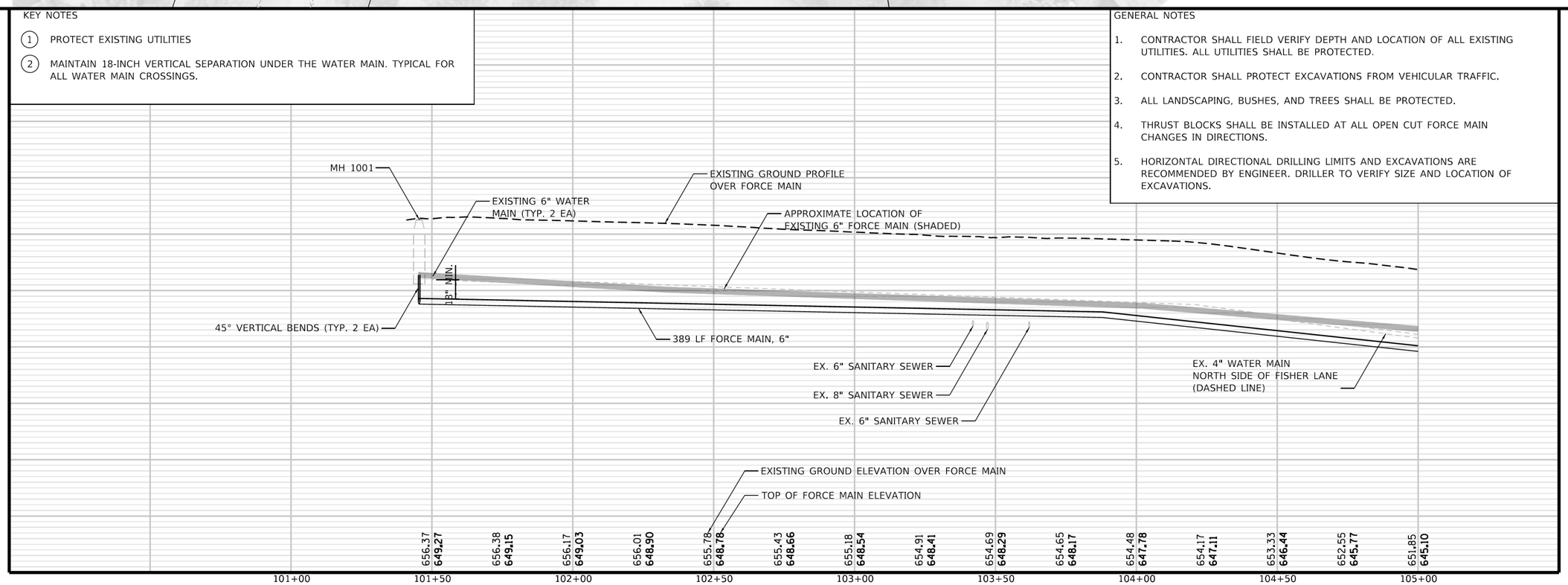


KEY NOTES

1. PROTECT EXISTING UTILITIES
2. MAINTAIN 18-INCH VERTICAL SEPARATION UNDER THE WATER MAIN. TYPICAL FOR ALL WATER MAIN CROSSINGS.

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES. ALL UTILITIES SHALL BE PROTECTED.
2. CONTRACTOR SHALL PROTECT EXCAVATIONS FROM VEHICULAR TRAFFIC.
3. ALL LANDSCAPING, BUSHES, AND TREES SHALL BE PROTECTED.
4. THRUST BLOCKS SHALL BE INSTALLED AT ALL OPEN CUT FORCE MAIN CHANGES IN DIRECTIONS.
5. HORIZONTAL DIRECTIONAL DRILLING LIMITS AND EXCAVATIONS ARE RECOMMENDED BY ENGINEER. DRILLER TO VERIFY SIZE AND LOCATION OF EXCAVATIONS.



VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

PLAN AND PROFILE
FISHER LANE - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070
PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 16

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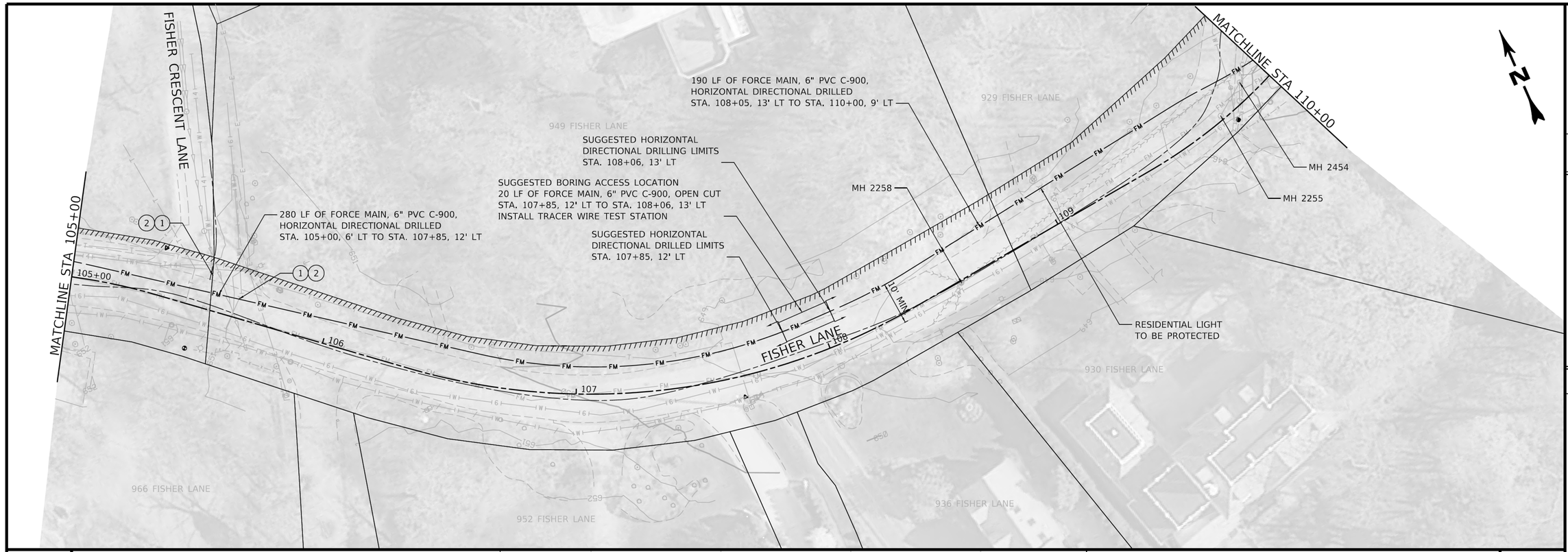

KEY NOTES

1. PROTECT EXISTING UTILITIES
2. MAINTAIN 18-INCH VERTICAL SEPARATION UNDER THE WATER MAIN. TYPICAL FOR ALL WATER MAIN CROSSINGS.

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES. ALL UTILITIES SHALL BE PROTECTED.
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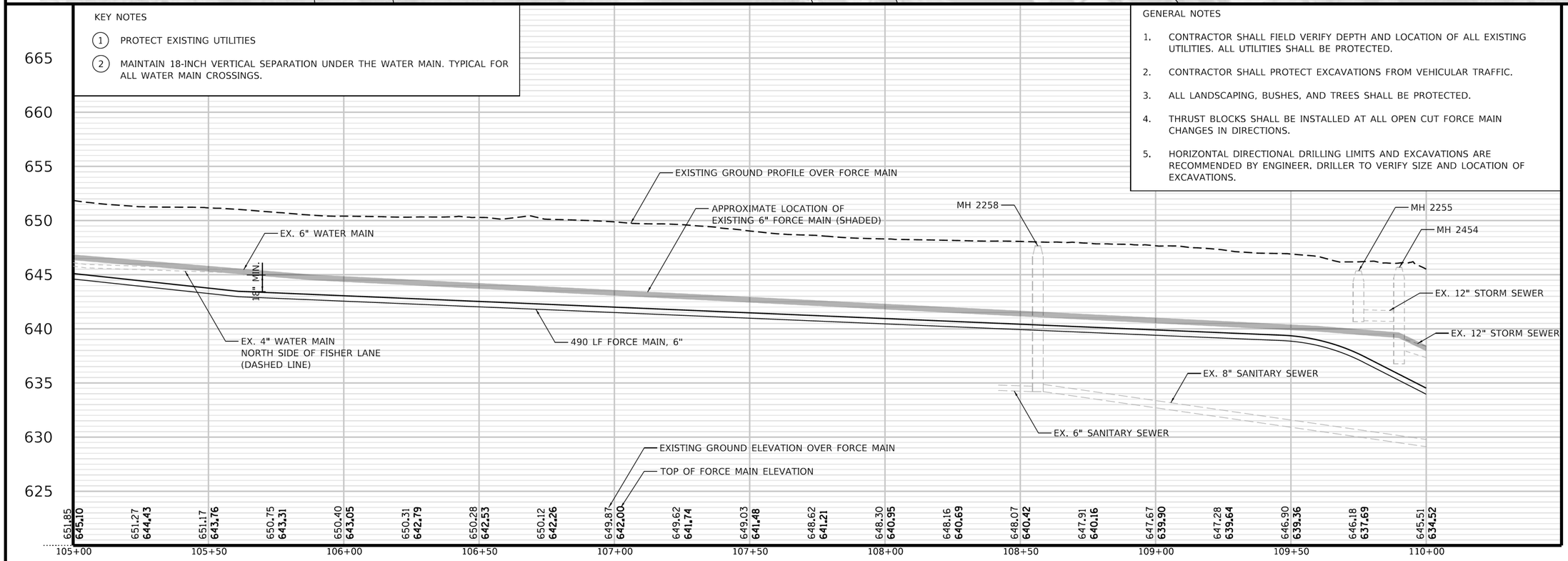

REVISIONS

NO.		DATE:
1	ISSUED FOR BID	1/5/26

PLAN AND PROFILE
FISHER LANE - 2
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070
PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 17

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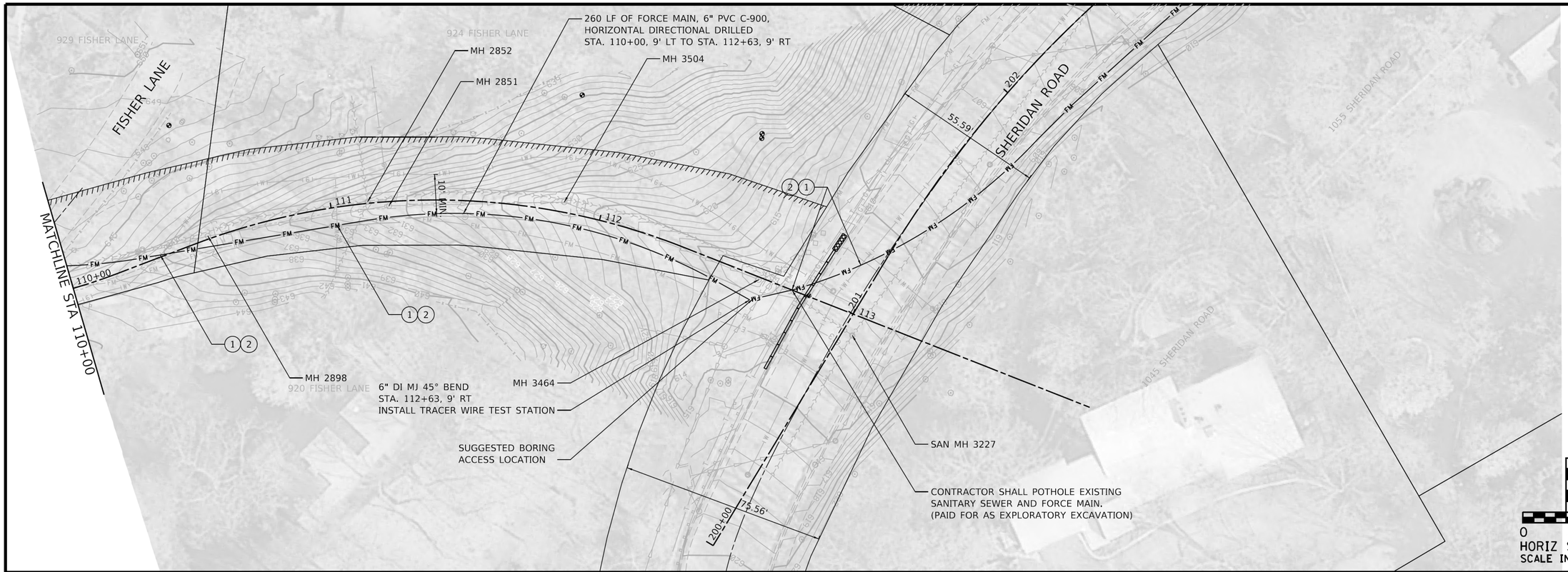

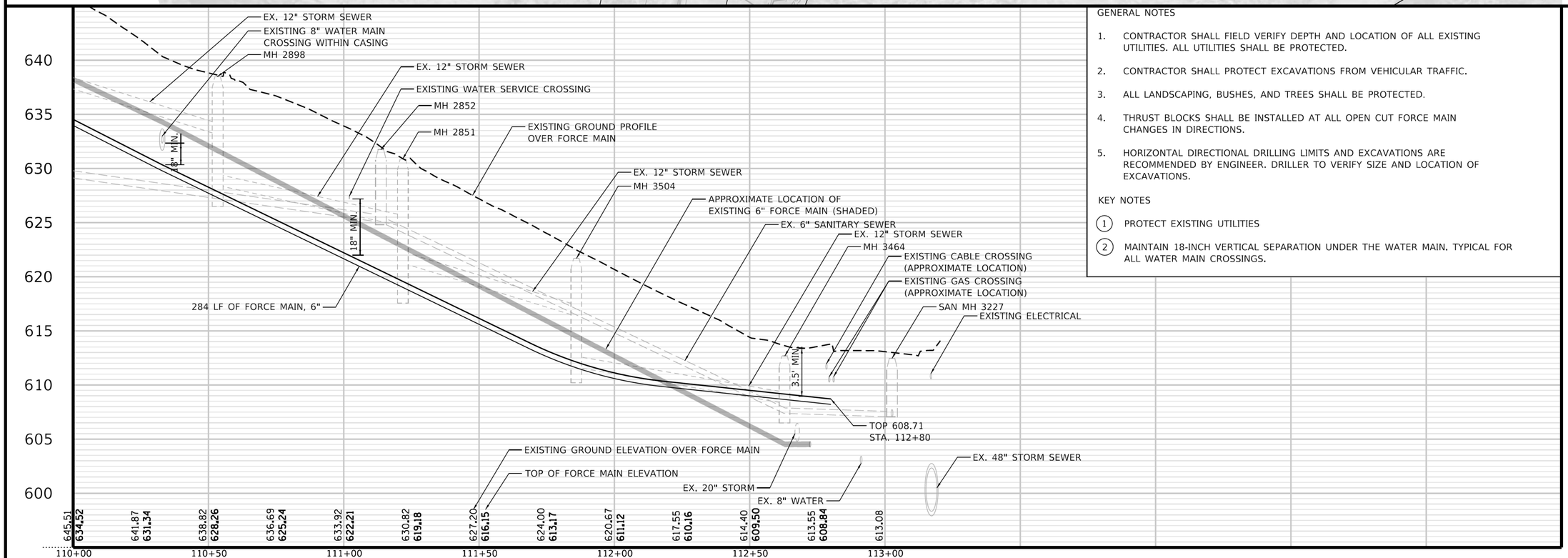

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES. ALL UTILITIES SHALL BE PROTECTED.
2. CONTRACTOR SHALL PROTECT EXCAVATIONS FROM VEHICULAR TRAFFIC.
3. ALL LANDSCAPING, BUSHES, AND TREES SHALL BE PROTECTED.
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5. HORIZONTAL DIRECTIONAL DRILLING LIMITS AND EXCAVATIONS ARE RECOMMENDED BY ENGINEER. DRILLER TO VERIFY SIZE AND LOCATION OF EXCAVATIONS.

KEY NOTES

(1) PROTECT EXISTING UTILITIES

(2) MAINTAIN 18-INCH VERTICAL SEPARATION UNDER THE WATER MAIN. TYPICAL FOR ALL WATER MAIN CROSSINGS.

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

PLAN AND PROFILE FISHER LANE - 3

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 18

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SUGGESTED BORING ACCESS LOCATION

2 EA OF SANITARY MANHOLE, TYPE A, TYPE 1 FRAME, CLOSED LID, 4'-DIA INSTALLED ON SHERIDAN ROAD NORTH OF THE PUMPING STATION. LOCATIONS TO BE DETERMINED BY VILLAGE OF WINNETKA. TRAFFIC CONTROL - ROAD CLOSURE FOR SANITARY MANHOLE

915 FISHER LANE

SHERIDAN ROAD

1075 SHERIDAN ROAD

1055 SHERIDAN ROAD

1045 SHERIDAN ROAD

REMOVABLE STEEL BOLLARD (TYP.)

FOR RAVINES PUMPING STATION IMPROVEMENTS - COMPLETE SEE SHEET 15

6" DI MJ 45° BEND STA. 204+15, 10' LT

MH 4321

MH 3059

MH 3138

MH 3118

MH 3372

MH 3171

76.37'

113

200+00

201

202

203

204

205+00

10' MIN.

55.99'

4.85'

5.99'

320 LF OF FORCE MAIN, 6" PVC C-900, HORIZONTAL DIRECTIONAL DRILLING STA. 200+84, 35' LT TO STA. 203+91, 0' LT

TEMPORARY CONCRETE BARRIER WITH IMPACT ATTENUATORS, TEMPORARY (FULL REDIRECTIVE, NARROW) TEST LEVEL 2 STA. 200+66, 17' LT TO STA. 201+24, 17' LT TCB SHALL BE 2-FT AWAY FROM ANY DROP OFF SEE GENERAL NOTE 39 LOCATED ON SHEET 3

CONTRACTOR SHALL POTHOLE EXISTING SANITARY SEWER. (PAID FOR AS EXPLORATORY EXCAVATION)

BYPASS MANHOLE, TYPE 1 FRAME, CLOSED LID WITH FORCE MAIN QUICK CONNECT TRANSITION FROM DUCTILE IRON TO PVC IN MANHOLE STA. 204+05, 9' LT

SUGGESTED BORING ACCESS LOCATION 30 LF OF FORCE MAIN, 6" PVC C-900, OPEN CUT STA. 203+91, 0' LT TO STA. 204+16, 13' LT INSTALL TRACE WIRE TEST STATION

SUGGESTED HORIZONTAL DIRECTIONAL DRILLED LIMITS STA. 203+91, 0' LT

KEY NOTES

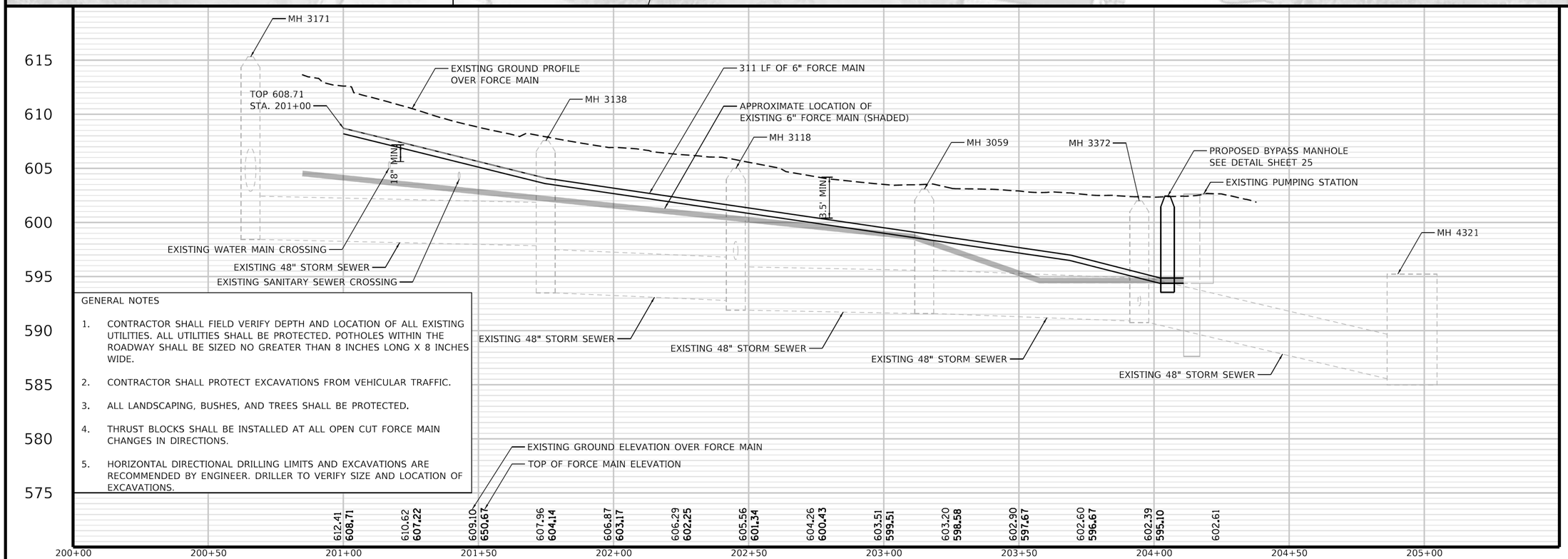
(1) PROTECT EXISTING UTILITIES

(2) MAINTAIN 18-INCH VERTICAL SEPARATION UNDER THE WATER MAIN. TYPICAL FOR ALL WATER MAIN CROSSINGS.

5' VERT SCALE

0 20' HORIZ SCALE

SCALE IN FEET



GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES. ALL UTILITIES SHALL BE PROTECTED. POTHOLES WITHIN THE ROADWAY SHALL BE SIZED NO GREATER THAN 8 INCHES LONG X 8 INCHES WIDE.
2. CONTRACTOR SHALL PROTECT EXCAVATIONS FROM VEHICULAR TRAFFIC.
3. ALL LANDSCAPING, BUSHES, AND TREES SHALL BE PROTECTED.
4. THRUST BLOCKS SHALL BE INSTALLED AT ALL OPEN CUT FORCE MAIN CHANGES IN DIRECTIONS.
5. HORIZONTAL DIRECTIONAL DRILLING LIMITS AND EXCAVATIONS ARE RECOMMENDED BY ENGINEER. DRILLER TO VERIFY SIZE AND LOCATION OF EXCAVATIONS.

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
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PLAN AND PROFILE
SHERIDAN ROAD - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

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SHEET 19

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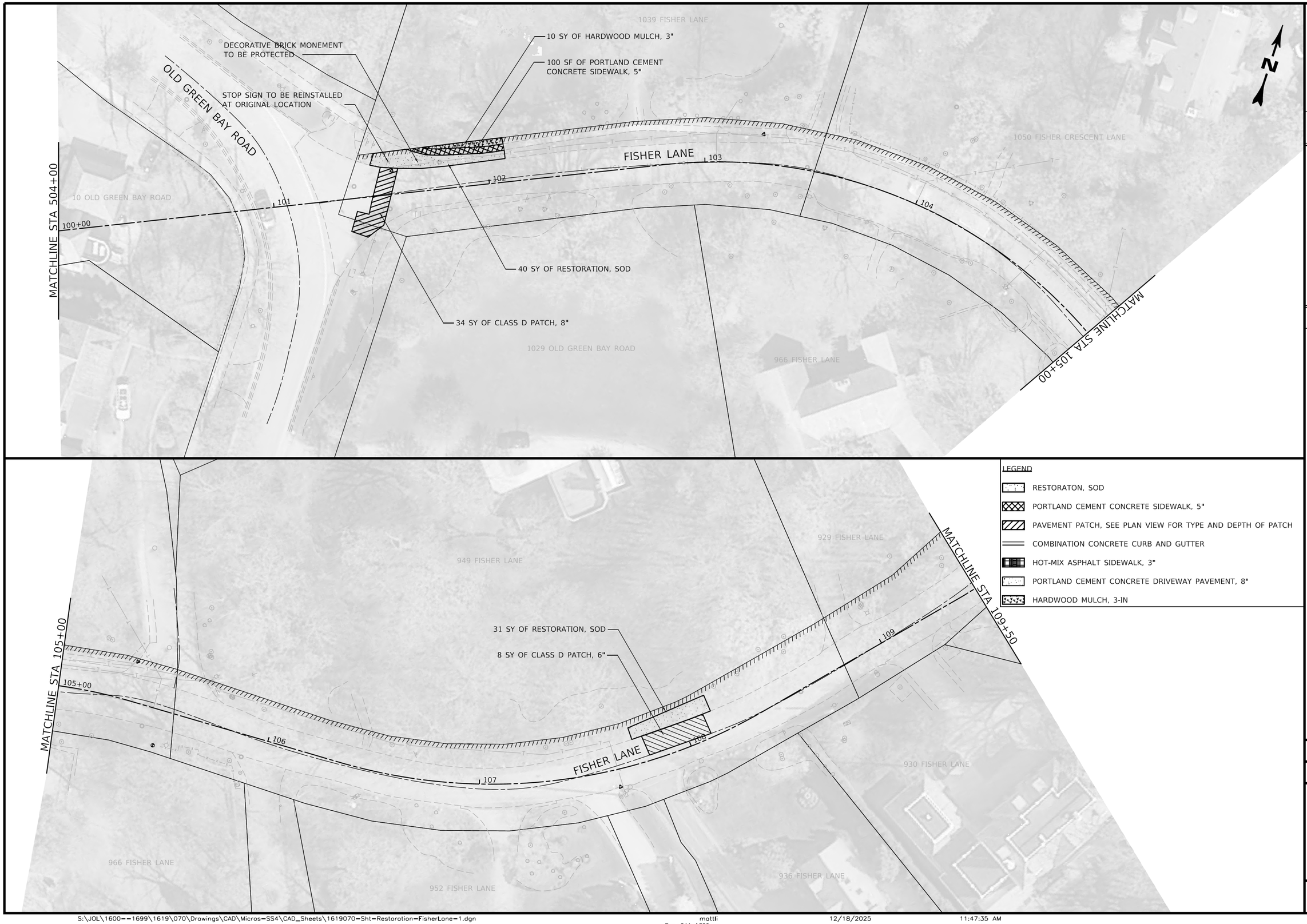

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

RESTORATION PLAN
FISHER LANE - 1

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 20

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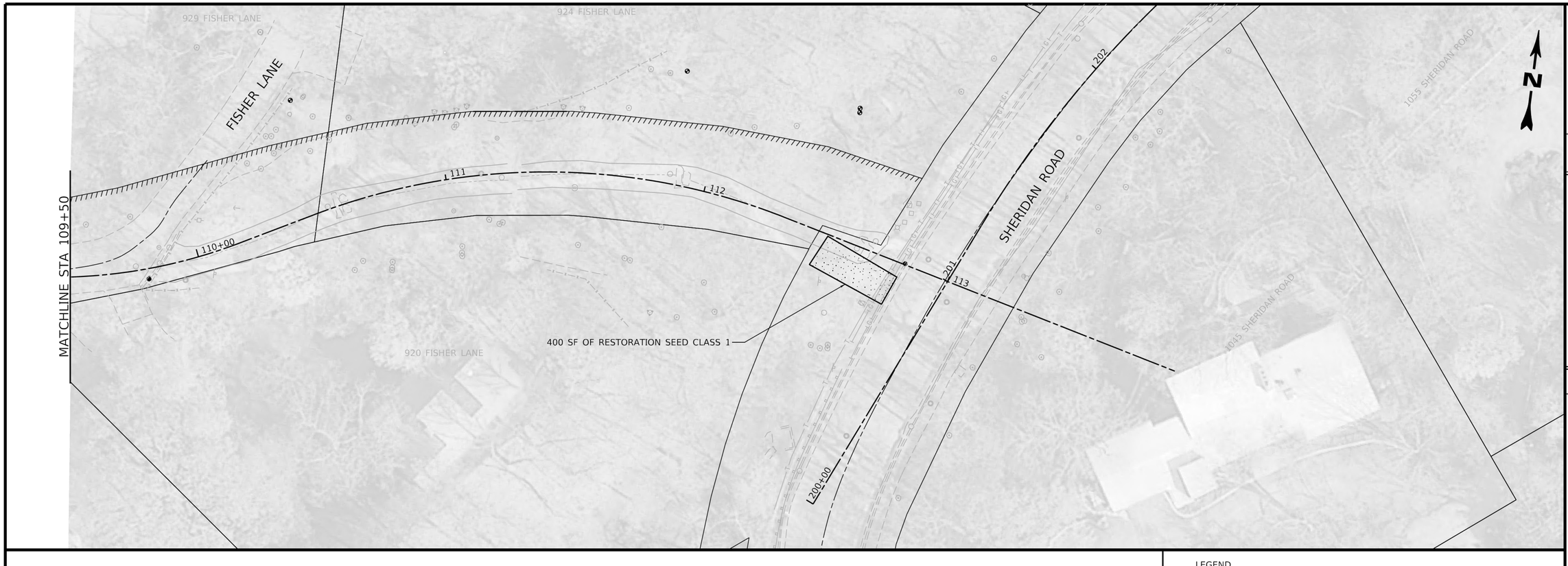


LEGEND

- RESTORATON, SEED CLASS 1
- PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- PAVEMENT PATCH, SEE PLAN VIEW FOR TYPE AND DEPTH OF PATCH
- COMBINATION CONCRETE CURB AND GUTTER
- HOT-MIX ASPHALT SIDEWALK, 3"
- PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"
- HARDWOOD MULCH, 3-IN

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

RESTORATION PLAN
FISHER LANE - 2

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

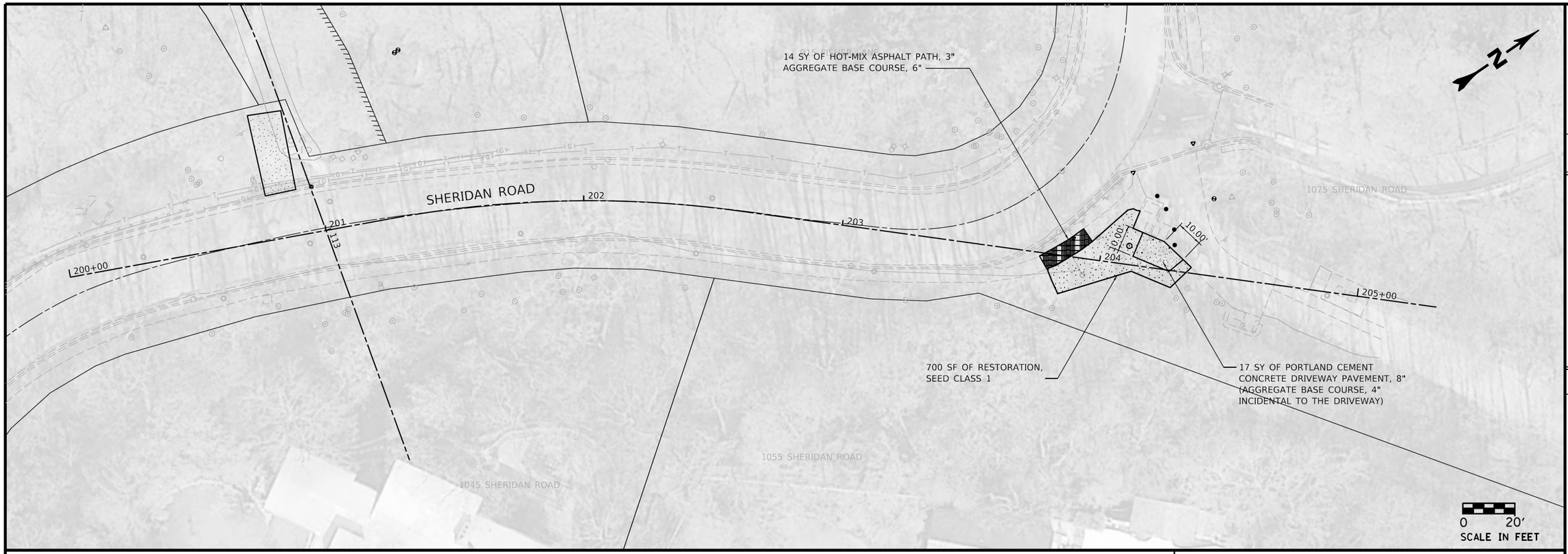
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

PROJECT MGR.
MRW

STRAND ASSOCIATES®

SHEET
21



LEGEND

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- PAVEMENT PATCH, SEE PLAN VIEW FOR TYPE AND DEPTH OF PATCH
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VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
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RESTORATION PLAN
SHERIDAN ROAD - 1

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

PROJECT MGR.
MRW

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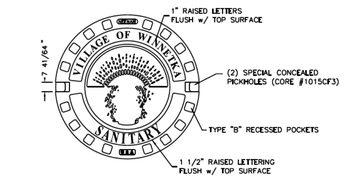
SPECIAL LETTERED R-1713 HDSI WATER VAULT, SANITARY AND STORM SEWER MANHOLE COVER



HEAVY DUTY
MATERIAL ASTM A48 CL 35
MACHINED BEARING SURFACE
COVER WT: 125 LBS (56.7 kg)

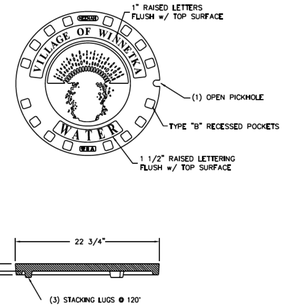
NOT TO SCALE

STANDARD COVER DETAIL

DATE: 2-1-2022

D-7

SPECIAL LETTERED R-1713 HDSI WATER VAULT, SANITARY AND STORM SEWER MANHOLE COVER



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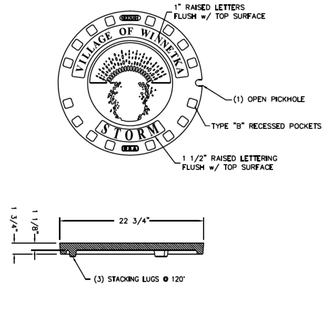
STANDARD COVER DETAIL

DATE: 2-1-2022

D-7

SPECIAL LETTERED R-1713 HDSI WATER VAULT, SANITARY AND STORM SEWER MANHOLE COVER



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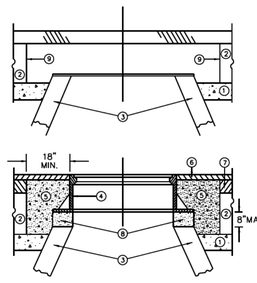
D-7



LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. EXISTING STRUCTURE
4. FRAME AND LID (SEE NOTES)
5. CLASS SI CONCRETE
6. PROPOSED HMA SURFACE COURSE
7. PROPOSED HMA BINDER COURSE
8. PROPOSED MORTAR, STEEL SHIMS & ADJUSTING RINGS 8" MAXIMUM
9. FULL DEPTH SAW CUT

NOTES:

EXISTING FRAMES AND LIDS SHALL BE REMOVED AND RETURNED TO THE VILLAGE OF WINNETKA BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.

VILLAGE OF WINNETKA CASTINGS ARE THE PROPERTY OF THE VILLAGE AND THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF REMOVAL AND DISPOSITION OF THE CASTINGS.

INSTALLATION OF NEW OR ADJUSTMENTS TO EXISTING FRAMES & LIDS WILL NOT BE PAID FOR SEPARATELY BUT ARE INCLUDED AS PART OF THE COST PER EACH ARE INCLUDED AS PART OF THE COST PER EACH ADJUSTED, SPECIAL".

CONSTRUCTION PROCEDURES

STAGE 1 (AFTER PAVEMENT MILLING AND PLACEMENT OF HMA BINDER)

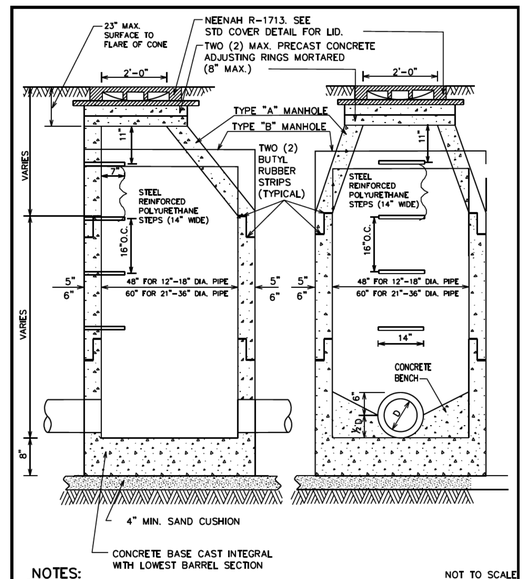
A) FULL DEPTH SAW CUT 5' X 5' SQUARE OR DIAMOND AROUND CENTER OF FRAME TO BE ADJUSTED
B) REMOVE FRAME, EXISTING PAVEMENT AND AGGREGATE MATERIAL TO A DEPTH OF 2" BELOW TOP OF MANHOLE STRUCTURE OR 2" BELOW BOTTOM OF LOWEST ADJUSTMENT RING.
C) ADJUST NEW FRAME TO MATCH PROPOSED HMA PAVEMENT SURFACE GRADE USING MORTAR, STEEL SHIMS EMBEDDED IN MORTAR, AND PRECAST CONCRETE ADJUSTING RINGS.
D) COMPACT EXISTING AGGREGATE STONE BASE.
E) FILL 5'X5' SURROUNDING SPACE WITH IDOT APPROVED CLASS SI CONCRETE TO THE SAME ELEVATION OF THE TOP OF THE BINDER COURSE.
F) PAVE SURFACE COURSE OVER 5'X 5' CONCRETE COLLAR.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS

DATE: 2-1-2022

NOT TO SCALE

FRAME AND LID ADJUSTMENT WITH CONCRETE COLLAR



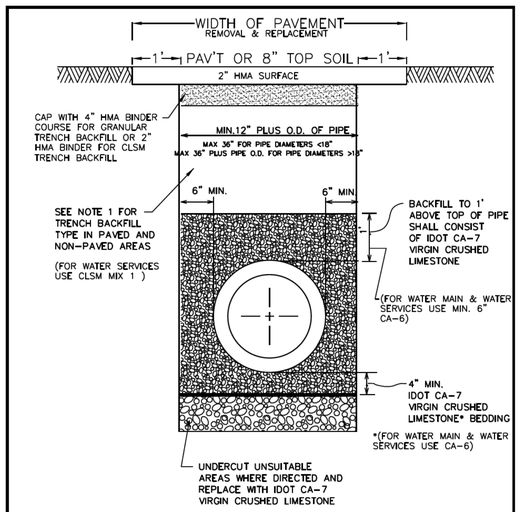
NOTES:

1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. BENCHES MUST BE PROVIDED IN ALL STORM SEWER MANHOLES.
4. NON-PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.
5. MORTAR ALL PIPE PENETRATIONS INSIDE AND OUTSIDE OF STRUCTURE.
6. IN "SUBMERGED" CONDITIONS, ALL PIPE PENETRATIONS TO BE CORED, RUBBER BOOTED AND INTERIOR MORTARED.
7. PRIOR TO THE PLACEMENT OF FINAL LAYER OF ROADWAY, FRAMES AND ADJUSTING RINGS LOCATED WITHIN PAVED AREAS SHALL BE SET IN AN IDOT APPROVED CONCRETE "SI" MIXTURE.

DATE: 2-1-2022

NOT TO SCALE

TYPE A & B STORM MANHOLE DETAIL



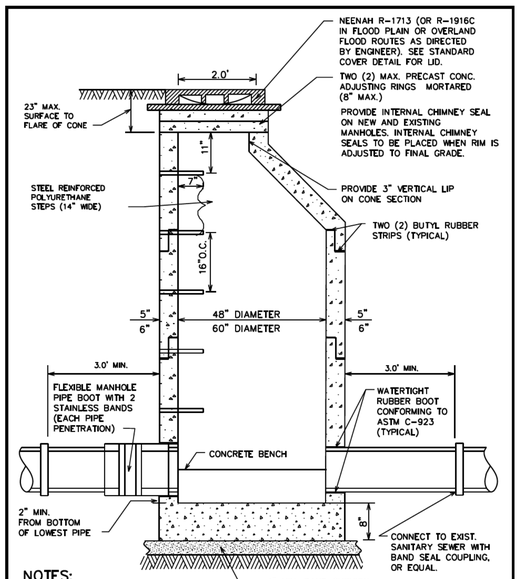
NOTES:

1. TRENCH BACKFILL MATERIAL SHALL CONSIST OF CA-7 (VIRGIN CRUSHED LIMESTONE) UNDER PAVED AREAS OR WITHIN ZONE OF INFLUENCE, OR FA-1, FA-2 OR FA-3, IN NON-PAVED AREAS.
2. ALL MATERIALS SHALL BE PROPERLY COMPACTED PER SPECIFICATIONS (INUNDATION OR WATER JETTING NOT ALLOWED)
3. ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS
4. ALL WATER MAINS & WATER SERVICES SHALL HAVE MIN. 5.5 FEET DEPTH OF COVER.

DATE: 1-18-22

NOT TO SCALE

TYPICAL PIPE TRENCH DETAIL



NOTES:

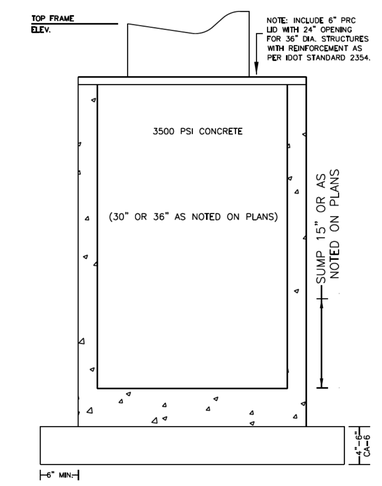
1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. BENCHES MUST BE PROVIDED IN ALL SANITARY SEWER MANHOLES
4. USE EXTERNAL LIFTING "HOLES" ONLY, BUT NOT FULL PENETRATION.
5. NON-PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.
6. PIPE PENETRATIONS TO BE RUBBER BOOTED AND INTERIOR MORTARED.
7. USE ECCENTRIC CONE ONLY.
8. PRIOR TO THE PLACEMENT OF FINAL LAYER OF ROADWAY, FRAMES AND ADJUSTING RINGS LOCATED WITHIN PAVED AREAS SHALL BE SET IN AN IDOT APPROVED CONCRETE "SI" MIXTURE.

DATE: 2-1-2022

NOT TO SCALE

SANITARY MANHOLE DETAIL

UNLESS OTHERWISE SPECIFIED ON PLANS:
FOR 3" OR 4" M. TYPE CURB & GUTTER USE NEENAH R-3501-P OR EQUAL. NEENAH R-3513 OR R-2504 FOR DEPRESSED CURB, DRIVEWAY ENTRANCE. NEENAH R-3170 WITH B.6-12 CURB & GUTTER



DATE: 2-1-2022

NOT TO SCALE

PRECAST CATCH BASIN DETAIL

VILLAGE OF WINNETKA, ILL. MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

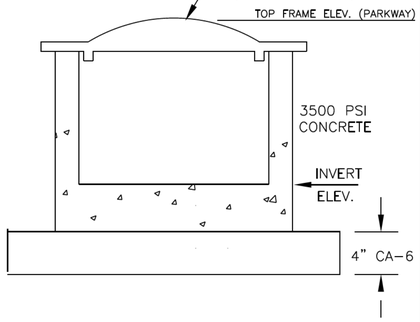
VILLAGE OF WINNETKA
STANDARD CONSTRUCTION DETAILS - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 23



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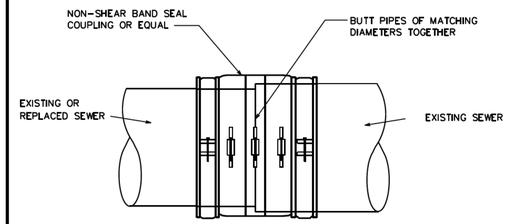
PRECAST INLET DETAIL

DATE: 2-20-2015

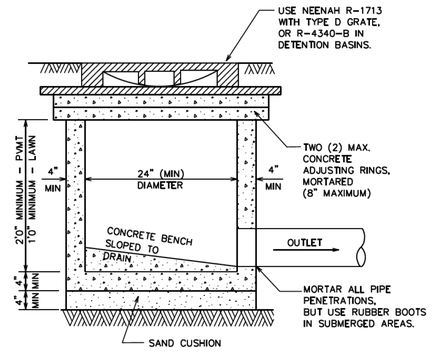


NOT TO SCALE

PIPE COUPLING DETAIL

DATE: 2-1-2022

G-3



NOTE:

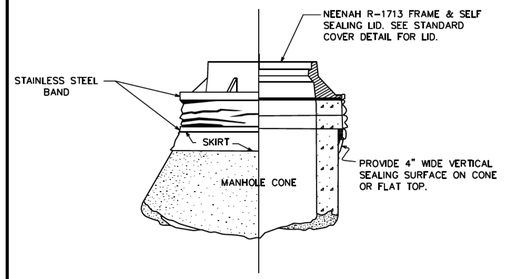
1. INLET TO BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
2. INLET MUST CONFORM TO ASTM C-478.
3. NON-PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.
4. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF FRAME SHALL NOT EXCEED 42 INCHES. IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42 INCHES, STRUCTURE SHALL BE REVISED TO A 48 INCH DIAMETER TY A MANHOLE.

NOT TO SCALE

TYPE A INLET DETAIL

DATE: 2-1-2022

E-1



INTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:	
0 – 4⅛"	CHIMNEY SEAL ONLY
4⅛" TO 9"	SEAL + 7" EXTENSION
9" TO 12"	SEAL + 10" EXTENSION
OVER 12"	SEAL + MULTI. EXTENSIONS

EXTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:	
0 – 3"	NARROW (6") SEAL ONLY
3 TO 6⅛"	STANDARD (9") SEAL ONLY
6⅛" TO 12"	STD. SEAL + EXTENSION
OVER 12"	SEAL + MULTI. EXTENSIONS

NOTE:

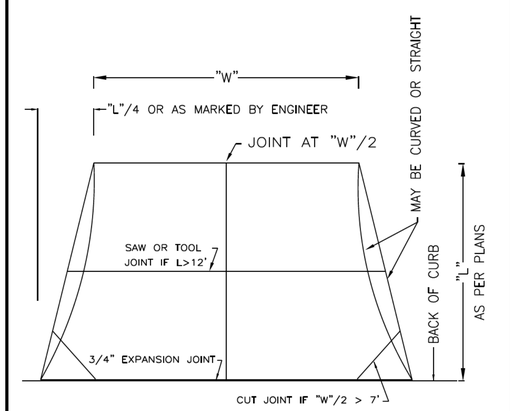
1. CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY SEWER SYSTEM MANHOLES.
2. "CRETEX" OR APPORVED EQUAL EXTERNAL/INTERNAL SEALS ARE REQUIRED. OTHER PRODUCTS OR OTHER DESIGN SOLUTIONS SHALL REQUIRE THE APPROVAL OF THE CITY ENGINEERING DEPARTMENT.
3. IF INTERNAL SEALS ARE USED, THE STRUCTURE, INCLUDING ADJUSTMENT RINGS, MUST BE INSPECTED BY CITY PERSONNEL BEFORE INSTALLATION.
4. CHIMNEY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

NOT TO SCALE

CHIMNEY SEAL DETAIL

DATE: 2-1-2022

A-1



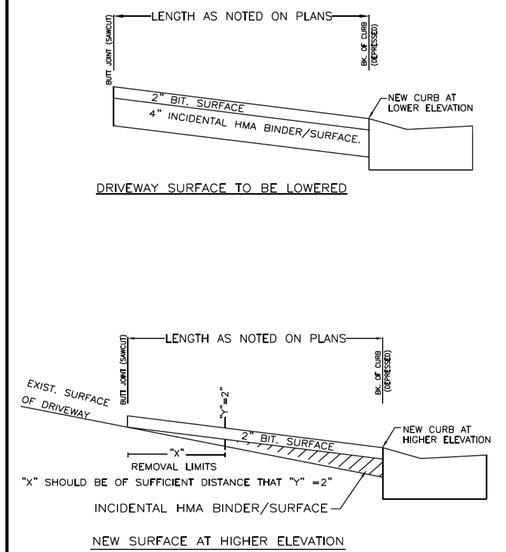
NOTES:

1.) USE 6" THICK, IDOT CLASS PV OR SI CONCRETE.
2.) USE 4" MIN. IDOT CA-6 CRUSHED STONE BASE

NOT TO SCALE

TYPICAL PCC DRIVEWAY

DATE: 2-1-2022



DRIVEWAY SURFACE TO BE LOWERED

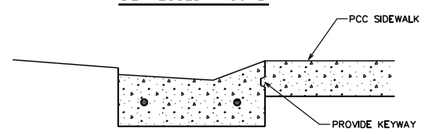
NEW SURFACE AT HIGHER ELEVATION

NOT TO SCALE

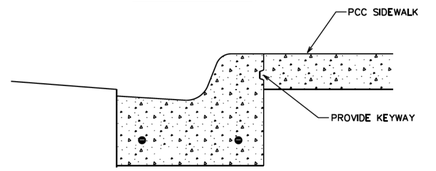
TYPICAL HMA DRIVEWAY

DATE: 2-1-2022

DEPRESSED CURB



CURB & GUTTER



NOTES:

1. SEE TYPICAL DETAIL FOR CURB AND GUTTER FOR CURB DIMENSIONS AND SPECIFICATIONS.

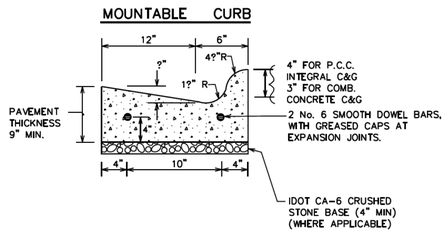
NOT TO SCALE

SIDEWALK AT CURB AND GUTTER

DATE: 2-1-2022

MOUNTABLE
CONCRETE CURB & GUTTER

MOUNTABLE CURB



NOTES:

1.) ½" THICK PREFORMED EXPANSION JOINTS SHALL BE INSTALLED AT 50 FOOT INTERVALS. PROVIDE 2-3/4" STEEL DOWEL BARS AT EXPANSION JOINTS.

2.) EXPANSION JOINTS SHALL BE INSTALLED ON EACH SIDE, A DISTANCE OF 2 FEET FROM A STRUCTURE THAT FALLS WITHIN THE CURB AND GUTTER.

3.) CONSTRUCTION JOINTS SHALL BE SAWED TO A MINIMUM DEPTH OF 2 INCHES AND PLACED AT 10 FOOT INTERVALS. SAW CUTS SHALL BE SAWED NO SOONER THAN 6 HOURS AND NO LATER THAN 24 HOURS AFTER PLACEMENT OF CONCRETE.

4.) CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (IDOT). MOST RECENT EDITION UNLESS NOTED OR DEPICTED HEREIN.

5.) A PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

NOT TO SCALE

MOUNTABLE CURB & GUTTER

DATE: 2-1-2022

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

VILLAGE OF WINNETKA
STANDARD CONSTRUCTION DETAILS - 2
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

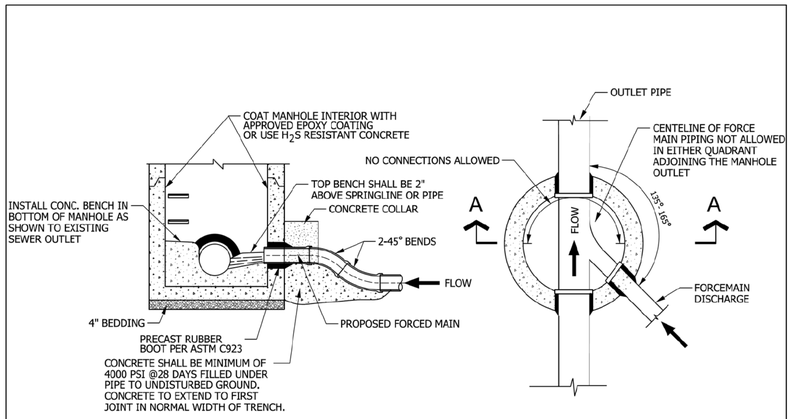
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 24



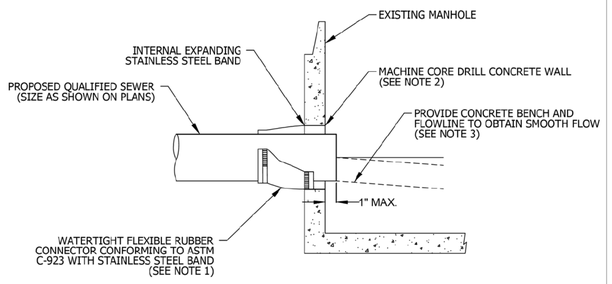
SECTION A - A

PLAN VIEW

NOTES:
1. DROP CONNECTIONS ARE NOT ALLOWED.
2. MAXIMUM OF ONE FORCEMAIN CONNECTION PER MANHOLE; MULTIPLE CONNECTIONS NOT ALLOWED.

NOT TO SCALE

TECHNICAL GUIDANCE MANUAL	7/1/12
TYPICAL FORCEMAIN DISCHARGE TO GRAVITY MANHOLE	STD. DWG. NO. 35
	PAGE NO. 36

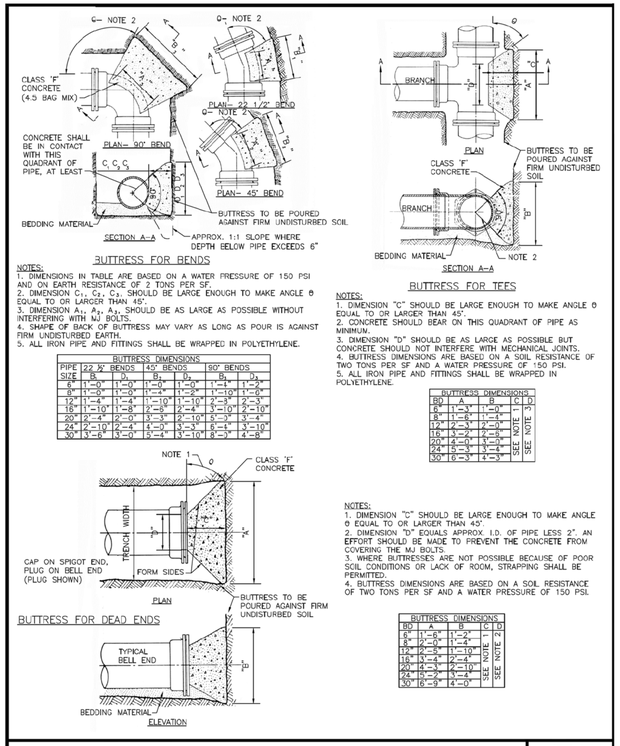


SECTION

NOTES:
1. RESILIENT CONNECTOR COMPLYING WITH ASTM STANDARD C-923 (MOST RECENT EDITION) SHALL BE USED.
2. MACHINE CORE/DRILL CIRCULAR OPENING IN STRUCTURE WALL. OPENING DIAMETER TO FIT THE REQUIRED RESILIENT CONNECTOR PER MANUFACTURER'S RECOMMENDATION.
3. CUT, SHAPE, AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW.
4. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT, CONCRETE, OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
5. ANY DAMAGE TO THE EXISTING MANHOLE SHALL BE REPAIRED BY THE CONTRACTOR.
6. REINFORCED CONCRETE COLLAR MAY BE SUBSTITUTED FOR PIPE DIAMETERS LARGER THAN 36-INCHES.

NOT TO SCALE

TECHNICAL GUIDANCE MANUAL	10/02/18
PIPE TO EXISTING MANHOLE CONNECTION DETAIL	STD. DWG. NO. 42
	PAGE NO. 43



BUTTRESS FOR BENDS

NOTES:
1. DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI AND ON EARTH RESISTANCE OF 2 TONS PER SF.
2. DIMENSION C_1, C_2, C_3, SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
3. DIMENSION A_1, A_2, A_3, SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MJ BOLTS.
4. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM UNDISTURBED EARTH.
5. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

BUTTRESS DIMENSIONS						
PIPE SIZE	22 ½° BENDS		45° BENDS		90° BENDS	
	B	D	B_2	D_2	B_3	D_3
6"	1'-0"	1'-0"	1'-0"	1'-1"	1'-1"	1'-2"
8"	1'-0"	1'-0"	1'-1"	1'-2"	1'-10"	1'-6"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-3"	2'-3"
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-0"	2'-10"
20"	2'-4"	2'-0"	3'-3"	2'-10"	5'-3"	3'-4"
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"
30"	3'-6"	3'-0"	5'-4"	3'-10"	8'-3"	4'-8"

BUTTRESS FOR TEES

NOTES:
1. DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
2. CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AS MINIMUM.
3. DIMENSION "D" SHOULD BE AS LARGE AS POSSIBLE BUT CONCRETE SHOULD NOT INTERFERE WITH MECHANICAL JOINTS.
4. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SF AND A WATER PRESSURE OF 150 PSI.
5. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

BUTTRESS DIMENSIONS				
BD	A	B	C	D
6"	1'-3"	1'-0"	SEE NOTE 1	SEE NOTE 3
8"	1'-6"	1'-1"		
12"	2'-3"	2'-0"		
16"	3'-0"	2'-6"		
20"	4'-0"	3'-0"		
24"	5'-3"	3'-6"		
30"	6'-3"	4'-6"		

BUTTRESS FOR DEAD ENDS

NOTES:
1. DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°.
2. DIMENSION "D" EQUALS APPROX. I.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT THE CONCRETE FROM COVERING THE MJ BOLTS.
3. WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED.
4. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SF AND A WATER PRESSURE OF 150 PSI.

BUTTRESS DIMENSIONS			
BD	A	B	C
6"	1'-6"	1'-2"	SEE NOTE 2
8"	2'-0"	1'-4"	
12"	2'-9"	1'-10"	
16"	3'-6"	2'-4"	
20"	4'-3"	2'-10"	
24"	5'-2"	3'-4"	
30"	6'-9"	4'-0"	

THRUST BLOCKING DETAILS

STANDARD DETAIL

STRAND ASSOCIATES®
01-975-92A
JUNE 2013

NOTE:
1. EQUIPMENT SHALL BE PORTACON PC100 FLOODPROOF, EMERGENCY BYPASS COUPLING, OR APPROVED EQUIVALENT.

QUICK CONNECT DETAIL

MECHANICAL CAP DETAIL

GRIPPER PLUG DETAIL

BYPASS MANHOLE DETAIL

FLOOR MOUNTED PIPE SUPPORT

VILLAGE OF WINNETKA, ILL. MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

GENERAL CONSTRUCTION DETAILS - 1

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

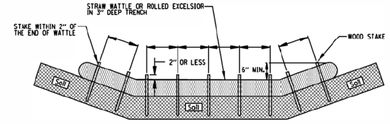
JOB NO. 1619.070

PROJECT MGR. MRW

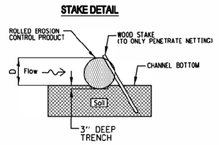
STRAND ASSOCIATES®

SHEET 25

ROLLED EROSION CONTROL PRODUCTS



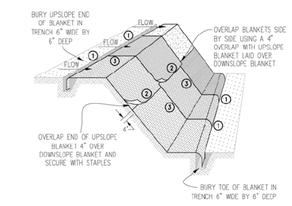
NOTES:
1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
2. 4' SPACING FOR WATTLES.
3. 2' SPACING FOR ROLLED EXCELSIOR.
4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

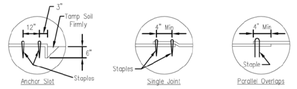


NOTES:
1. DRAWINGS ARE NOT TO SCALE.
2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.

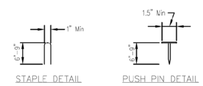
REFERENCE		STANDARD DWG. NO.
Project		IUM-514
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 08-2-2019
Approved ____ Date ____		

AUTOCAD2006





DETAIL 1 DETAIL 2 DETAIL 3



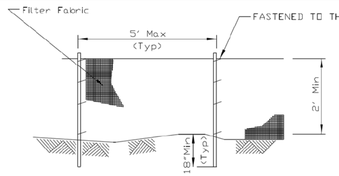
NOTES:
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

0	8-2-19	ADDED NOTE 4	MRW

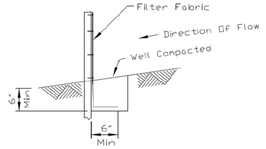
EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed ____ Date ____
Drawn By: JOHNSON ____ SCALE ____
Checked ____
Approved ____

SILT FENCE PLAN



ELEVATION

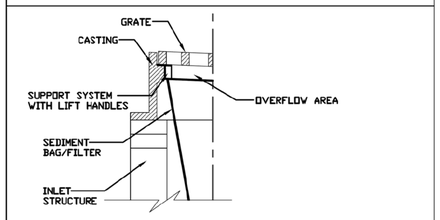


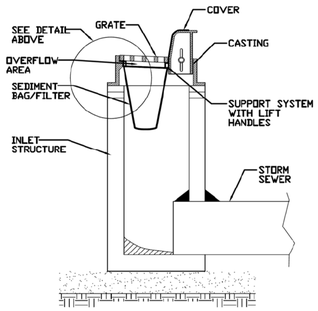
FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

REFERENCE		STANDARD DWG. NO.
Project		IUM-620A
Designed ____ Date ____		SHEET 1 OF 2
Checked ____ Date ____		DATE 04-15-2021
Approved ____ Date ____		

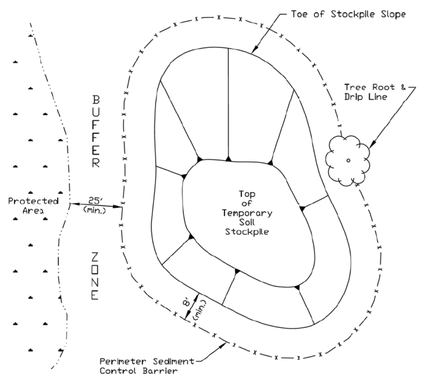
INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION





REFERENCE		STANDARD DWG. NO.
Project		IUM-561D
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 01-11-11
Approved ____ Date ____		

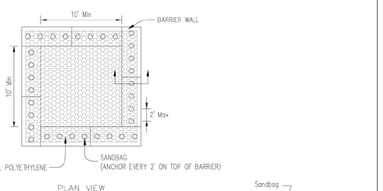
TEMPORARY SOIL STOCKPILE DETAIL



NOTES:
1. Stockpile slopes should be based on angle of repose of the soil material to avoid potential sloughing of the slope.
2. Soil stockpile to be stabilized in accordance with practical standards.
3. Do not locate stockpile within overland drainage flow path, designated floodways, drip line or over the root crown of adjacent trees.
4. Provisions for sediment control practices may be required along haul roads and entrance/exit locations for access the soil stockpile that can create flow path for stormwater runoff.
5. Installation of benches, terraces, or slope interrupters should be considered.
6. Avoid building soil stockpiles on impervious surfaces.
7. Linear sediment trap surrounding the stockpile base may be used to control sediment.

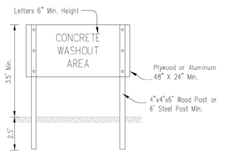
REFERENCE		STANDARD DWG. NO.
Project		IUM-627
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE JANUARY 2017
Approved ____ Date ____		

AUTOCAD2006



PLAN VIEW

BARRIER WALL ANCHOR SECTION



SIGN DETAIL

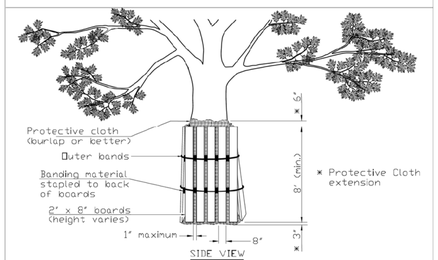
NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

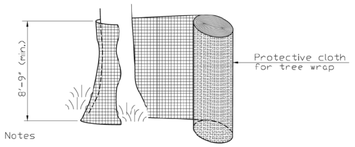
0	8-2-19	ADDED NOTE 4	MRW

TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

Designed ____ Date ____
Drawn By: JOHNSON ____ SCALE ____
Checked ____
Approved ____

TREE TRUNK PROTECTION





Notes

1. The contractor shall provide 2" x 8" boards banded continuously around each trunk with a protective cloth (such as burlap or better) placed between the boards and the tree to prevent scarring of the tree being protected. The height of the boards is variable due to height of tree being protected. Trees to be protected shall be shown in the plans or designated by the Professional Forester or Certified Arborist.
2. The protective cloth shall extend past both the top and bottom of the boards as shown in the detail. Width of wrap material varies. For fabric that does not meet the required height, fabric shall overlap a minimum of 6" and shall be spliced to avoid slippage.

REFERENCE		STANDARD DWG. NO.
Project		IUM-690-C
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 09-14-2017
Approved ____ Date ____		

VILLAGE OF WINNETKA, ILL. MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

EROSION CONTROL DETAILS - 1

RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

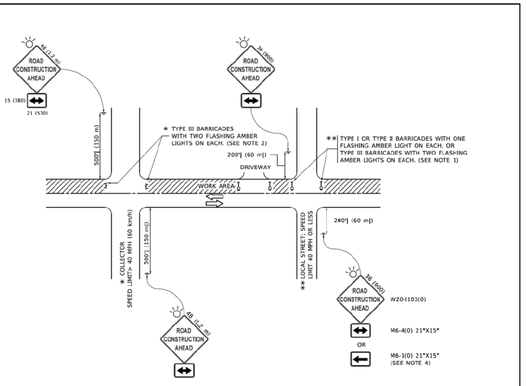
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 26



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
   WHEN THE SIDE ROAD IS BETWEEN THE BEGINNING OF THE MAINLINE
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHWIRWSE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

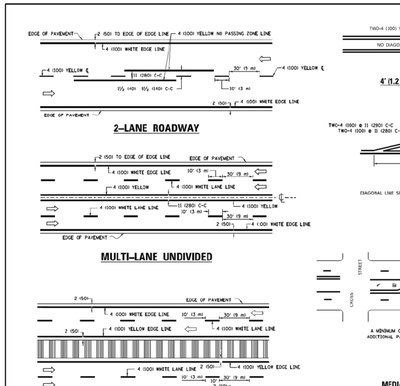
USER NAME = hutsmi	DESIGNED - L.M.A.	REVISED - A. KOUSEN 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

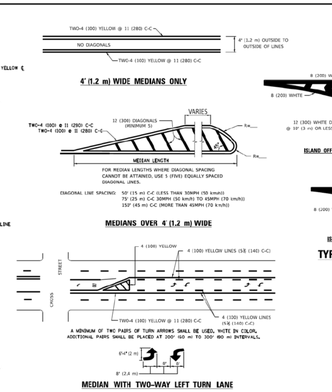
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

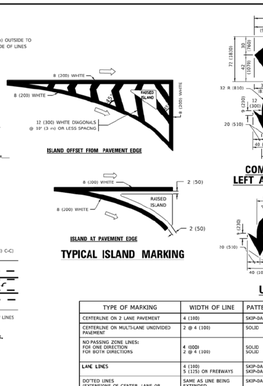
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-16		CONTRACT NO.	
	ILLINOIS FED. AID PROJECT			







TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: 2 @ 4 (100) WITH 2 @ 4 (100) FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5ℓ (130) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	3' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FILL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5ℓ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) & DIAGONALS, BIKE & EQUESTRIAN) & LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 3' (600) APART 3' (900) FOR CROSSWALK DRAINING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	NOT LESS THAN 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK IF PRESENT. SEE STOP LINE MARKING DETAILS FOR FORM PARALLEL TO APPROACH CENTERLINE WHERE REQUIRED
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS NO DIAGONALS (SEE FOR 8' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 11 (280) C-C (LESS THAN 30MPH (50 km/hr)) 15' (4 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES) *MAY BE 6 (1.8 m) WIDE ON LOW VOLUME LINE FOR *6	SOLID	WHITE	SEE STATE STANDARD 780001 AREA BETWEEN: 2'*6=12 SQ. FT. (0.33 m ²) EACH 1'*6=6.0 SQ. FT. (1.6 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/hr)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
1' TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2' ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

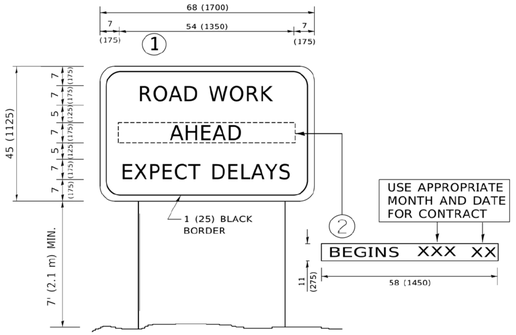
USER NAME = hutsmi	DESIGNED - IVERS	REVISED - C. JUCIUS 09-09-19
	DRAWN -	REVISED - C. JUCIUS 01-01-13
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE - 33-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13		CONTRACT NO.	
	ILLINOIS FED. AID PROJECT			



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

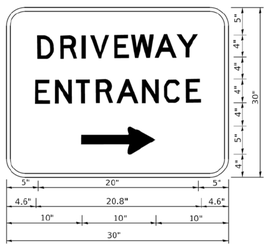
USER NAME = hutsmi	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 03-12-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-22		CONTRACT NO.	
	ILLINOIS FED. AID PROJECT			



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN: REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

USER NAME = lbryce	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-26		CONTRACT NO.	
	ILLINOIS FED. AID PROJECT			

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869 ·

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

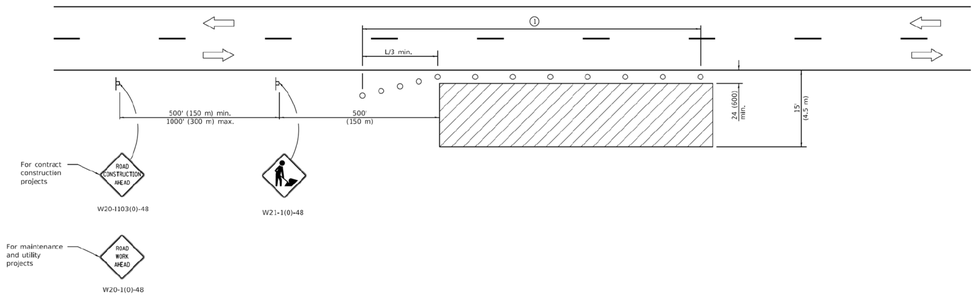
ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
DISTRICT ONE DETAILS - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

PROJECT MGR.
MRW

STRAND ASSOCIATES®

SHEET
27



TYPICAL APPLICATIONS

Utility operations
Culvert extensions
Side slope changes
Guardrail installation and maintenance
Delineator installation
Landscaping operations
Shoulder repair
Sign installation and maintenance

SYMBOLS

Work area

Sign

Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance and at 50' (15 m) centers through the remainder of the work area.

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

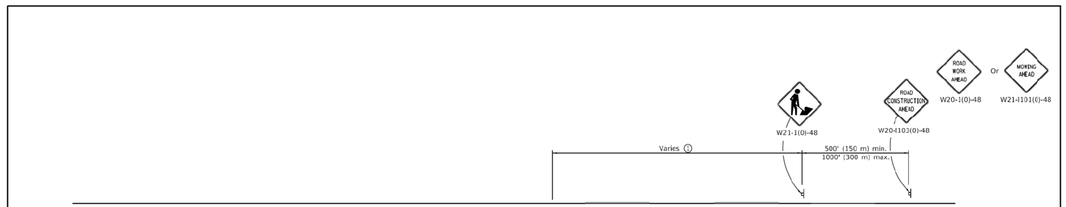
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2014 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 801 (1-14)

DATE	REVISIONS
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.
1-1-13	Omitted text 'WORKERS'
	sign.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05



TYPICAL APPLICATIONS

Shoulder work
Utility operations

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed ½ the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

SYMBOLS

Work area

Sign

Flagger with traffic control sign when required

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the shoulder, where the average speed is 1 mph (2 km/h) or less.

When the work operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

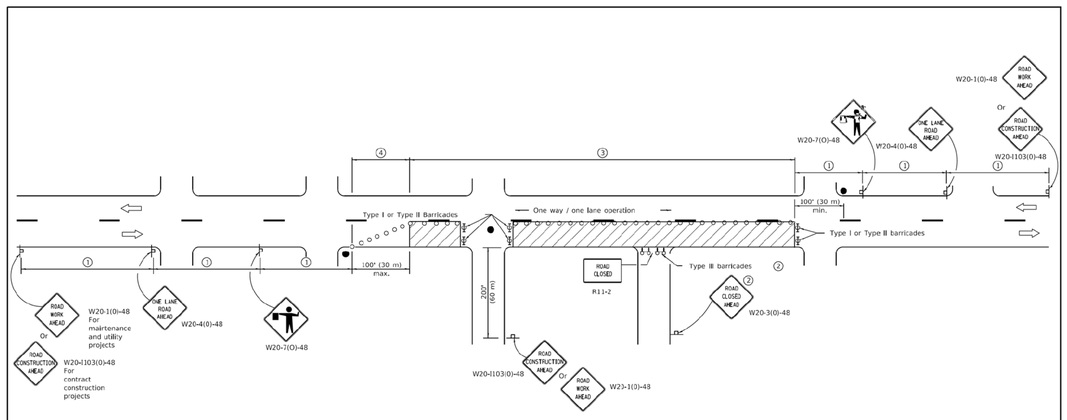
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2014 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 801 (1-14)

DATE	REVISIONS
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.
1-1-13	Omitted text 'WORKERS'
	sign.

OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY

STANDARD 701011-04



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

Work area

Cone, drum or barricade (not required for moving operations)

Sign on portable or permanent support

Flagger with traffic control sign

Barricade or drum with flashing light

Type III barricade with flashing lights

① Refer to SIGN SPACING TABLE for distances.

② For approved sideroad closures.

③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.

④ Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

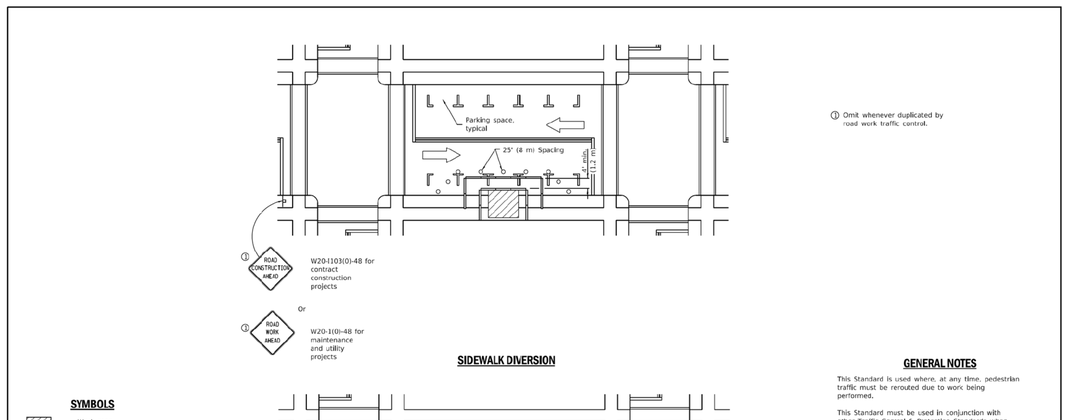
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2011 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 801 (1-09)

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

STANDARD 701501-06



SYMBOLS

Work area

Sign on portable or permanent support

Barricade or drum

Cone, drum or barricade

Type III barricade

Detectable pedestrian channelizing barricade

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED April 1, 2016 — ENGINEER OF SAFETY ENGINEERING
APPROVED April 1, 2016 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 801 (1-16)

DATE	REVISIONS
4-1-16	Omitted orange safety fence
	from standard as this is
	covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of
	plan views. Renamed Std.

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06

VILLAGE OF WINNETKA, ILL. • MARCH 10, 1869 •

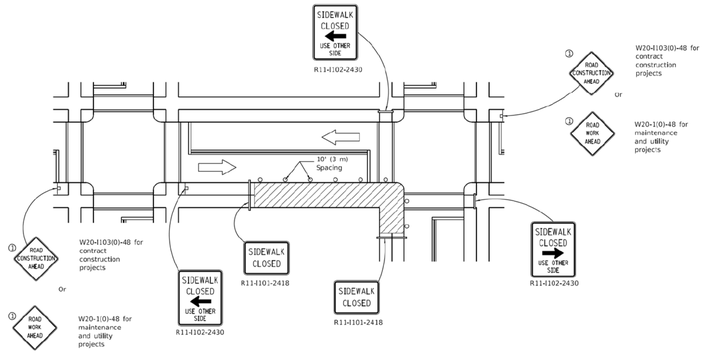
NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
DETAILS - 1
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

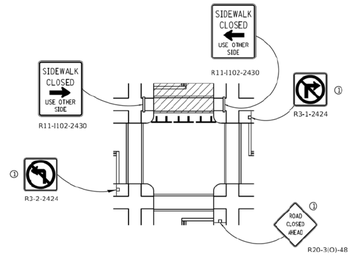
JOB NO. 1619.070
PROJECT MGR. MRW

STRAND ASSOCIATES®

SHEET 28



CORNER CLOSURE



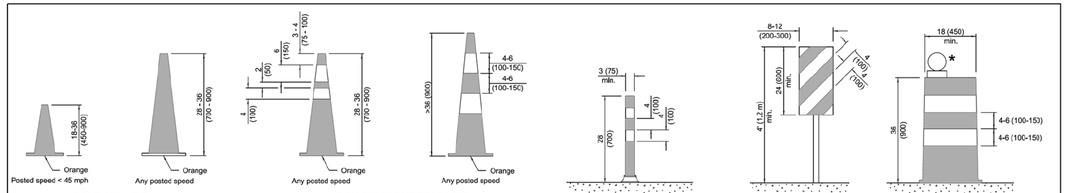
CROSSWALK CLOSURE

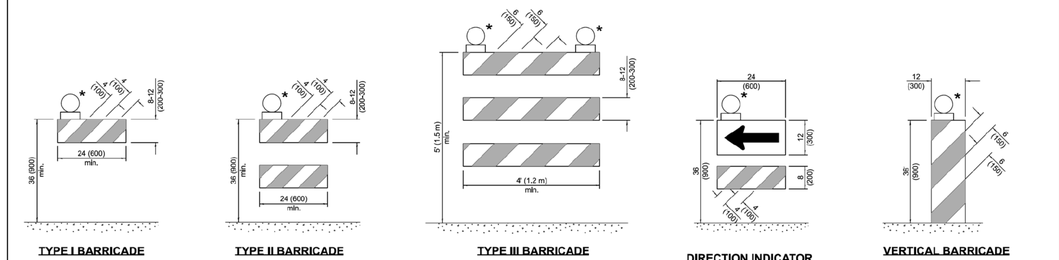
Illinois Department of Transportation
PASSED January 1, 2024 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2024 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/IDOT 1-1-24

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

STANDARD 701801-06





GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

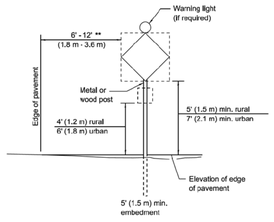
DATE	REVISIONS
1-1-24	Revised Type III Barricade notes (sht. 3) & moved warning light on post mounted signs to top center.
1-1-19	Revised cones usage and added cones > 36" (900mm) height

Illinois Department of Transportation
PASSED January 1, 2024 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2024 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/IDOT 1-1-24

TRAFFIC CONTROL DEVICES

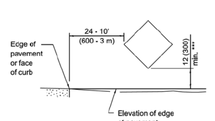
(Sheet 1 of 3)

STANDARD 701901-09



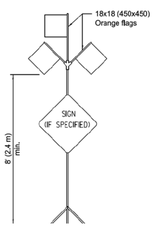
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



HIGH LEVEL WARNING DEVICE

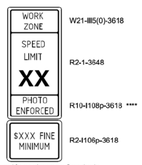
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500 (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

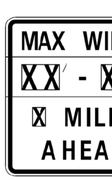


Sign assembly as shown on Standards or as allowed by District Operations.

This sign shall be used when the above sign assembly is used.

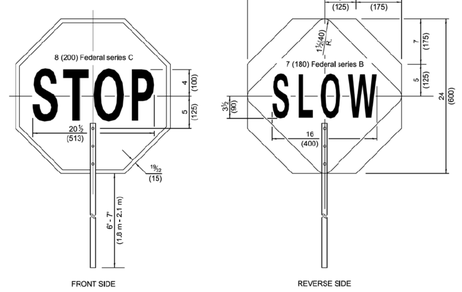
HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the jurisdiction of the State.



WIDTH RESTRICTION SIGN

XX'-XX' width and X miles are variable.



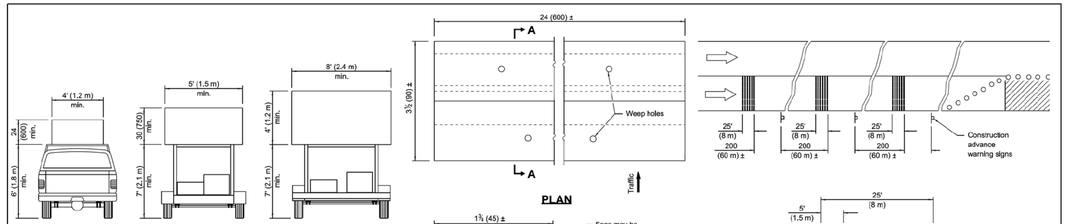
FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation
PASSED January 1, 2024 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2024 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/IDOT 1-1-24

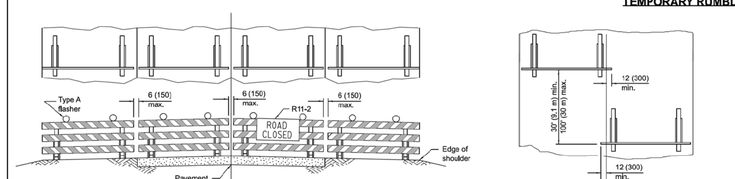
TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-09

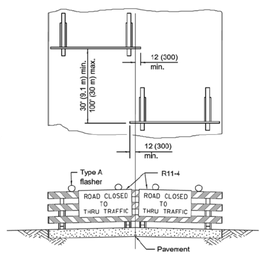


TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades.



ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades.

Illinois Department of Transportation
PASSED January 1, 2024 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2024 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/IDOT 1-1-24

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.

TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-09

VILLAGE OF WINNETKA, ILL. · MARCH 10, 1869

NO.	REVISIONS	DATE
1	ISSUED FOR BID	1/5/26

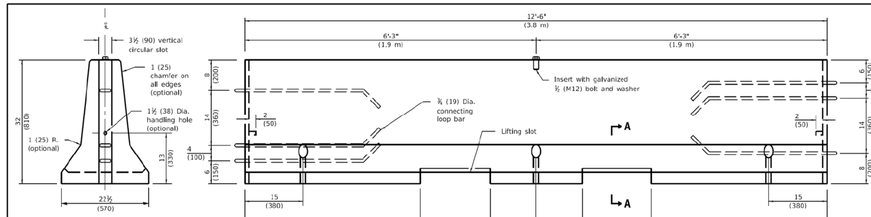
ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
DETAILS - 2
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO. 1619.070

PROJECT MGR. MRW

STRAND ASSOCIATES®

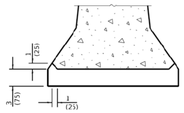
SHEET 29



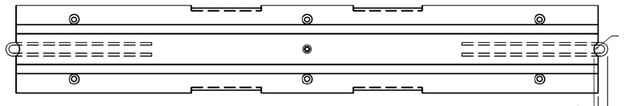
END VIEW
(Showing lifting slot)

ELEVATION
(Showing connecting loop bars and vertical panel bolt/insert)

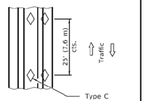
END VIEW



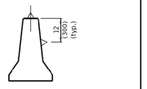
SECTION A-A
LIFTING SLOT



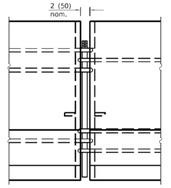
PLAN



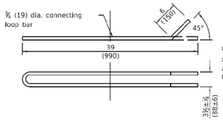
TOP VIEW



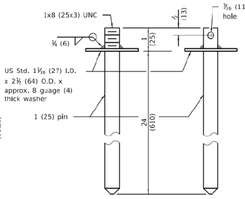
BARRIER WALL REFLECTORS



CONNECTING DETAIL



CONNECTING LOOP BAR



CONNECTING AND ANCHOR PINS
(End may be beveled ¼ (6) max.)

2½ (63) measured from face of barrier to end of loop bar

GENERAL NOTES

Each F shape barrier shall be clearly marked with "ILLINOIS F SHAPE", the Producer's mark and the date of manufacture. The markings shall be indented on the barrier or painted thereon with waterproof paintlink.

The insert for the ½ (M12) bolt shall be capable of 3,000 lb (13 kN) pull-out strength.

When barrier separates opposing flows of traffic markers shall be on both sides of barrier.

See Standard 782006 for dimensions of Type C reflector.

All dimensions are in inches (millimeters) unless otherwise shown.

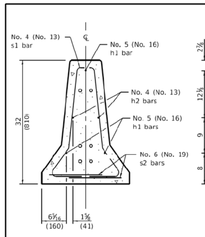
Illinois Department of Transportation
PASSED January 1, 2020 — ENGINEER OF OPERATIONS
APPROVED January 1, 2020 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 782006-01

DATE	REVISIONS
4-1-16	Rev. opt. chamfer on all
	edges to 1 (25). Reference
	to Std. 635011 now 782006.
1-1-12	Omitted "ALTERNATE" from
	connecting and anchoring
	pins detail.

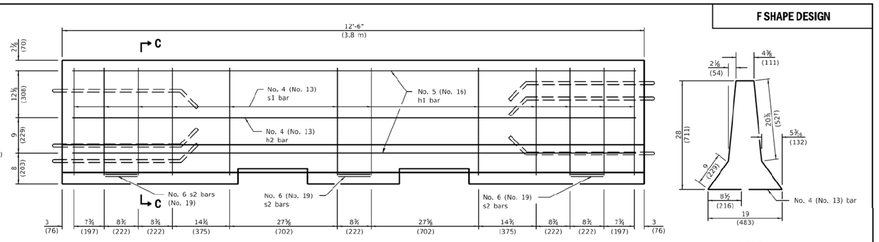
TEMPORARY CONCRETE BARRIER
(Sheet 1 of 2)

STANDARD 704001-08

F SHAPE DESIGN

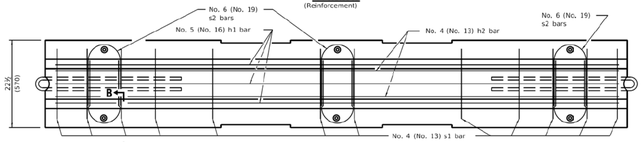


SECTION C-C

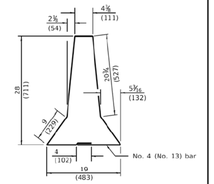


ELEVATION
(Reinforcement)

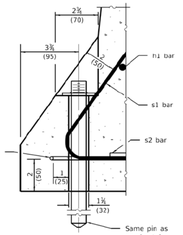
s1 BAR



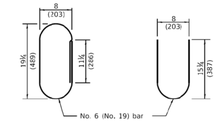
PLAN



ALTERNATE s1 BAR



SECTION B-B
ANCHORING DETAIL

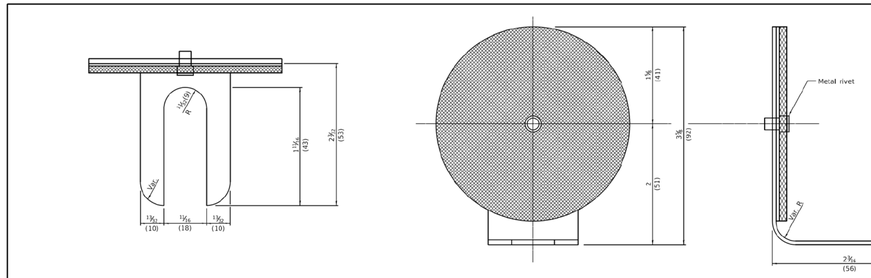


ALTERNATE s2 BARS

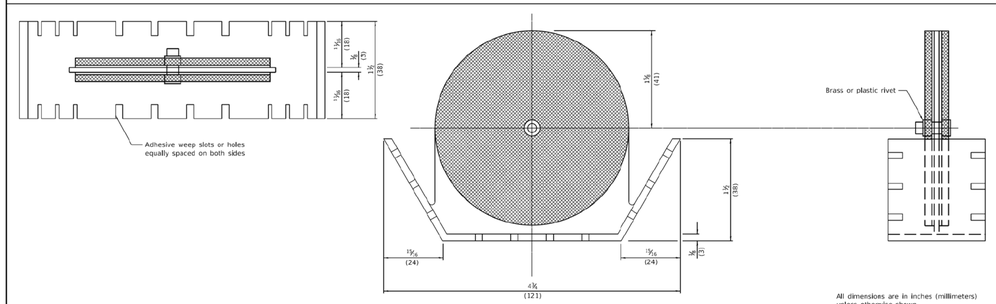
Illinois Department of Transportation
PASSED January 1, 2016 — ENGINEER OF POLICY AND PROCEDURES
APPROVED April 1, 2016 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 782006-01

TEMPORARY CONCRETE BARRIER
(Sheet 2 of 2)

STANDARD 704001-08



REFLECTOR TYPE A
(monodirectional shown)



REFLECTOR TYPE B
(bidirectional shown)

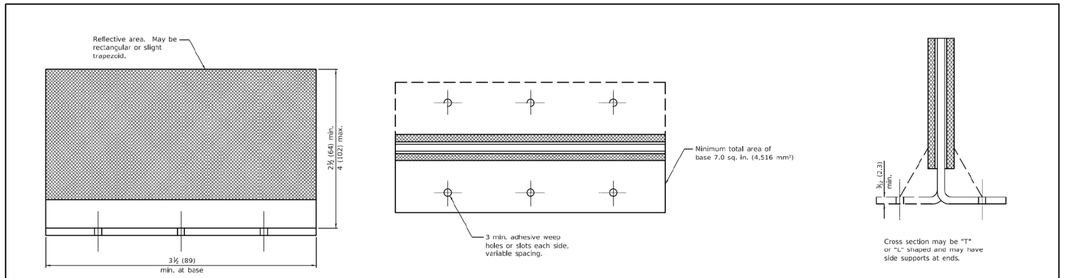
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2020 — ENGINEER OF OPERATIONS
APPROVED January 1, 2020 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 1-1-20

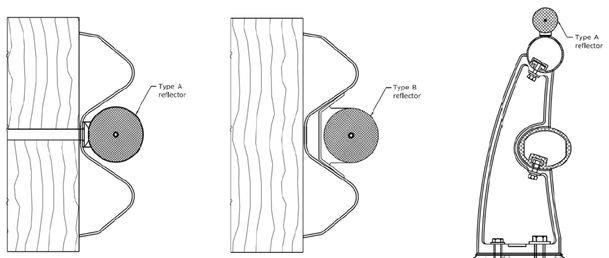
DATE	REVISIONS
1-1-20	Revised from F-shape to constant
	slope parapet, revised note 3 on
	sht. 3, and fixed typo.
4-1-16	Added reflector spacing
	detail. Moved TERMINAL
	MARKER to std. 725001.

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
(Sheet 1 of 3)

STANDARD 782006-01



REFLECTOR TYPE C



TYPICAL MOUNTING DETAIL FOR GUARDRAIL REFLECTOR

TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR

TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

Illinois Department of Transportation
PASSED January 1, 2020 — ENGINEER OF OPERATIONS
APPROVED January 1, 2020 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 1-1-20

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
(Sheet 2 of 3)

STANDARD 782006-01

VILLAGE OF WINNETKA, ILL. MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

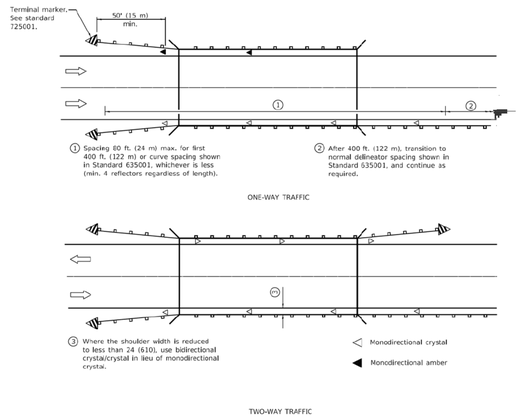
ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
DETAILS - 3
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

PROJECT MGR.
MRW

STRAND ASSOCIATES®

SHEET
30



GUARDRAIL / BARRIER WALL REFLECTOR PLACEMENT DETAIL

Illinois Department of Transportation

PASSED January 1, 2020
ENGINEER OF OPERATIONS

APPROVED January 1, 2020
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-2020

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

(Sheet 3 of 3)

STANDARD 782006-01

VILLAGE OF WINNETKA, ILL. MARCH 10, 1869

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	1/5/26

ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
DETAILS - 4
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION

VILLAGE OF WINNETKA
COOK COUNTY, ILLINOIS

JOB NO.
1619.070

PROJECT MGR.
MRW

STRAND ASSOCIATES®

SHEET
31

Path: S:\JOL\1600-1699\1619070\Drawings\GIS\Winnetka Ravines Service Area_PT 11x17_Sheet 32.mxd

User: mattli

Date: 12/18/2025

Time: 11:56:19 AM

0 125 250 500 750 1,000 Feet

N

Legend

- Service Area
- Sanitary Force Main
- Storm Force Main
- Manhole
- Sanitary Sewer
- Combined Sewer

2 EA Sanitary Manholes (Approximate Locations)

Road Closure

RAVINES PUMPING STATION

SHERIDAN ROAD

OLD GREEN BAY ROAD SEWER

FISHER LANE

Road Closure

ABANDONED FORCE MAIN FROM GIS SHAPEFILE

OLD GREEN BAY ROAD

TOWER ROAD

POTENTIAL SEWER REDIRECTION

Text

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

SHEET 32
1619.070

STRAND ASSOCIATES®

RAVINES PUMPING STATION SERVICE AREA

RAVINES FORCE MAIN REHABILITATION PROJECT
VILLAGE OF WINNETKA
COOK COUNTY, IL

GEOTECHNICAL ENGINEERING
SERVICES REPORT

rubino ENGINEERING INC.

REPORT TRANSMITTAL

June 27, 2025

To: Matt Lichtenwalter
Strand Associates, Inc.
1170 South Houbolt Road
Joliet, IL 60431
P: 815.744.4200

Re: **Geotechnical Engineering Services Report**
Ravines Force Main Rehabilitation and Replacement
Fisher Lane & Sheridan Road
Winnetka, Illinois

Rubino Report No. G25.042

Via email: Matt.Lichtenwalter@strand.com

Dear Mr. Lichtenwalter,

Rubino Engineering, Inc. is pleased to submit our Geotechnical Engineering Services Report for the proposed Ravines Force Main Rehabilitation Project in Winnetka, Illinois.

Report Description

Enclosed is the Geotechnical Engineering Services Report including results of field and laboratory testing, as well as recommendations for utility installation and general site development.

Authorization and Correspondence History

- Rubino Proposal No. Q25.112g dated February 18, 2025; Signed and authorized via Professional Services Agreement by Joseph M. Bunker on April 15, 2025.

Closing

Rubino appreciates the opportunity to provide geotechnical services for this project and we look forward to continued participation during the design and in future construction phases of this project.

If you have questions pertaining to this report, or if Rubino may be of further service, please contact our office at (847) 931-1555.

Respectfully submitted,
RUBINO ENGINEERING, INC.

Michelle A. Lipinski, PE
President

michelle.lipinski@rubinoeng.com

MAL/file/ Enclosures

Geotechnical Engineering Services Report

RAVINES FORCE MAIN REHABILITATION AND REPLACEMENT

FISHER LANE & SHERIDAN ROAD

WINNETKA, ILLINOIS

RUBINO PROJECT NO. G25.042

Drilling
Laboratory Testing
Geotechnical Analysis

PREPARED BY:
HOLLY GREGORICH

REVIEWED BY:
AIMEE RITCHIE, PE

rubino ENGINEERING INC.

Michelle A. Lipinski, PE
President
IL No. 062-061241, Exp. 11/30/2025

PREPARED FOR:

STRAND ASSOCIATES, INC.

1170 SOUTH HOUBOLT ROAD

JOLIET, ILLINOIS

JUNE 27, 2025

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Appendix C – Soil Classification General Notes
Appendix D – Soil Classification Chart
Appendix E – Site Vicinity Map & Boring Location Plan
Appendix F – Pavement Core Summary Table
Appendix G – Boring Logs
Appendix H – Laboratory Results

PROJECT INFORMATION

Rubino Engineering, Inc. (Rubino) understands that the Village of Winnetka is planning to install a new sanitary force main along Sheridan Road from the existing Ravines Pumping Station on to Fisher Lane toward Old Green Bay Road. The work includes the installation of approximately 1,600 feet of new sanitary force main and pumping station improvements. The new force main will be installed via horizontal directional drilling methods with excavation pits in the parkway and roadway. Cross sections included in the RFP document show that the new sanitary force main will bear at depths ranging from approximately 8 to 15 feet below existing grade.

Documents received:

- "25-2-9. Winnetka_Soils_Request for Proposal" – prepared by Strand Associates, Inc., received with RFP email on February 18, 2025

Project Correspondence:

- RFP Email from Matt Lichtenwalter of Strand Associates, Inc. on February 18, 2025
- Authorization to proceed from Matt Lichtenwalter of Strand Associates, Inc. on May 13, 2025
- Email from Matt Lichtenwalter of Strand Associates, Inc. on May 20th, 2025 removing B-04 from the scope due to steepness of slope and rig access and extending B-03 to 20 feet below existing grade

The geotechnical recommendations presented in this report are based on the available project information and the subsurface materials described in this report. If any of the information on which this report is based is incorrect, please inform Rubino in writing so that we may amend the recommendations presented in this report (if appropriate, and if desired by the client). Rubino will not be responsible for the implementation of our recommendations if we are not notified of changes in the project.

Purpose / Scope of Services

The purpose of this study was to explore the subsurface conditions at the site in order to prepare geotechnical recommendations for utility installation and general site development for the proposed construction. Rubino's scope of services included the following drilling program:

Table 1: Drilling Scope

NUMBER OF BORINGS	NUMBER OF CORES	DEPTH (FEET BEG*)	LOCATION
2	1	10	Fisher Lane
1	1	20	Fisher Lane
2	--	10 – 20	Sheridan Road

*BEG = below existing grade

Representative soil samples obtained during the field exploration program were transported to the laboratory for additional classification and laboratory testing.

This report briefly outlines the following:

- *Summary of client-provided project information and report basis*
- *Overview of encountered subsurface conditions*
- *Overview of field and laboratory tests performed including results*
  - *Seasonal High Groundwater Reading based on 24-hour groundwater testing and color change from brown to gray*
  - *Summary table of encountered pavement and subbase stone thickness with photo documentation*
- *Geotechnical recommendations pertaining to:*
  - *Subgrade preparation and stability recommendations*
  - *Utility Installation and backfill recommendations*
  - *Horizontal Directional Drilling (HDD) feasibility*
  - *Trench box lateral earth pressures*
  - *Dewatering*
- *Construction considerations, including temporary excavation and construction control of water*

DRILLING, FIELD, AND LABORATORY TEST PROCEDURES

Strand Associates, Inc. selected the number of borings and the boring depths. Rubino located the borings in the field by measuring distances from known fixed site features. The borings were advanced utilizing 2 ¼ inch inside-diameter, hollow stem auger drilling methods and soil samples were routinely obtained during the drilling process. The pavement cores were performed with a Milwaukee Drill and Diamond-bit core barrel.

Selected soil samples were tested in the laboratory to determine material properties for this report. Drilling, sampling, and laboratory tests were accomplished in general accordance with ASTM procedures. The following items are further described in the Appendix of this report.

- *Field Penetration Tests and Split-Barrel Sampling of Soils (ASTM D1586)*
- *Laboratory Determination of Water (Moisture) Content of Soil by Mass (ASTM D2216)*
- *Laboratory Determination of Atterberg Limits (ASTM D4318)*
- *Laboratory Organic Content by Loss on Ignition (ASTM D2974)*

The laboratory testing program was conducted in general accordance with applicable ASTM specifications. The results of these tests are to be found on the accompanying boring logs located in the Appendix.

SITE AND SUBSURFACE CONDITIONS

Site Location and Description

The project site is located east of Lake Michigan along Fisher Lane and Sheridan Road in Winnetka, Illinois. Fisher Lane and Sheridan Road are connected by a ravine that has a steep slope. Soil boring B-04 was removed from the scope due to slope of ravine.

The midpoint of the project site has an approximate latitude and longitude of 42.119508 and -87.739059, respectively.

Surface Conditions

Cores were taken within the existing pavement of Fisher Lane, adjacent to the soil borings. The surface conditions are as follows.

Table 2: Existing Pavement Section Summary

Core Number (Location)	Total Observed Pavement Thickness	Total Observed Base Stone Thickness
C-01 (Fisher Lane)	3 inches of Asphalt 15 inches of Concrete	Subbase Stone Not Observed
C-03 (Fisher Lane)	4 ½ inches of Asphalt	10 ½ inches of Subbase Stone

Please note that the above referenced thicknesses are considered approximate and based on visual observations and hand measurements. Pavement and sub-base type and thickness may vary between core/boring locations.

Subsurface Conditions

Beneath the existing topsoil encountered in the borings, subsurface conditions generally consisted of undocumented fill and possible fill soils underlain by brown and/or gray silty clay, brown and gray silty sand, and gray gravelly sand.

- The **topsoil** thickness ranged between approximately 4 and 14 inches
- The **undocumented fill** soils were generally cohesive in nature, with granular undocumented fill soils observed in one of the borings
- The native **silty clay** soils were generally medium stiff to very stiff in consistency
  - Possible cobbles/boulders encountered within one boring
- The **granular** soils were generally loose to medium dense in apparent density

Table 3: Subsurface Conditions Summary

Approximate Depth Range (feet BEG*)	Soil Description	SPT N-values (blows per foot)	Moisture Content (%)	Field Measured Q_P / Estimated Friction Angle
Fisher Lane (B-01, B-02, B-03)				
1 – 8 ½	FILL: dark brown, black, and/or dark gray silty clay, trace sand and gravel	3 – 16	21 – 40	$Q_p \cong$ 1.0 – 2.5 tsf
1 – 3 ½	Medium stiff, black silty CLAY *Possible Fill / Buried Topsoil (B-03)*	6	47	$Q_p \cong$ 1.0 tsf
3 ½ – 6	Stiff, brown and dark brown silty CLAY *Possible Fill (B-03)*	12	25	$Q_p \cong$ 1.25 tsf
6 – 9 ½	Loose to medium dense, brown and gray or	8	23	$\phi \cong 28°$

Approximate Depth Range (feet BEG*)	Soil Description	SPT N-values (blows per foot)	Moisture Content (%)	Field Measured Q_P / Estimated Friction Angle
	gray silty SAND to gravelly SAND *(B-02)*			
6 – 20	Stiff to hard, brown and/or gray silty CLAY	11 – 37	16 – 26	$Q_p \cong$ 2.25 – 4.5 tsf
Sheridan Road (B-05 & B-06)				
1 – 6	FILL: brown, black, and gray silty clay, with sand and gravel *(B-05)*	5 – 10	19 – 21	$Q_p \cong$ 4.0 tsf
1 – 6	FILL: gray gravelly sand *(B-06)*	18 – 42	11 – 15	---
6 – 16	Soft to medium stiff, brown or gray silty CLAY	3 – 6	16 – 28	$Q_p \cong$ 0.75 – 2.5 tsf
6 – 20	Stiff to very stiff, brown and/or gray silty CLAY *Possible cobbles and/or boulders in B-06*	10 – 26	18 – 24	$Q_p \cong$ 2.25 – 3.0 tsf

*BEG = Below existing grade

The native soils were visually classified as silty clay (CL), well-graded sand (SW) and sand-silt mixtures (SM) according to the Unified Soil Classification System (USCS). The above table is a general summary of subsurface conditions. Please refer to the boring logs for more detailed information.

Groundwater Conditions

Groundwater was encountered in some of the borings during drilling operations. The groundwater encountered in boring B-02 may be perched groundwater. The following table summarizes groundwater observations from the field:

Table 4: Groundwater Observation Summary

Boring Number	Approximate Groundwater Level During Drilling (feet BEG*)	Approximate Groundwater Level Upon Auger Removal (feet BEG*)	Approximate Groundwater Level after 24-hr Delay (feet BEG*)
B-01	N/A	N/A	N/A
B-02	6	5	2
B-03	N/A	N/A	N/A
B-05	N/A	N/A	15
B-06	N/A	N/A	N/A

*BEG = below existing grade

It should be noted that fluctuations in the groundwater level should be anticipated throughout the year depending on variations in climatological conditions and other factors not apparent at the time the borings were performed. Groundwater may not have been observed in some areas due to the

low permeability of soils. Additionally, discontinuous zones of perched water may exist within the soils. The possibility of groundwater level fluctuation should be considered when developing the design and construction plans for the project.

When bidding this project, the contractor should anticipate that groundwater and/or possibly perched water will be present during excavation.

Seasonal High Water Table Level Discussion

A seasonal high water table level is defined as a zone of water-saturated soil at the highest average depth during the wettest season. The seasonal high water table level persists in the soil for more than a few weeks. some of the more important factors that can influence the seasonal high water table elevation are the drainage characteristics of the soils; the land surface elevation; relief points such as adjacent ponds, swales, channels, culverts, etc.; and distance to relief points. Soil color change from brown to gray is a potential indicator of a seasonal high-water table.

Seasonal High Ground Water is estimated to be approximately 9 to 11 feet below the existing grade based on the color change from brown to gray in borings B-02, B-03, and B-05. Shallower groundwater was encountered in boring B-02 which may represent a perched condition.

Undocumented Fill Discussion

Undocumented fill and possible undocumented fill soils were observed in the borings to depths ranging from about 6 to 8 ½ feet below existing grade.

Undocumented fill is defined as fill that has been placed without being documented as to its placed density and moisture content.

Deleterious materials could include, but are not limited to, bricks, asphalt, concrete, metal, wood, or other building debris.

Deleterious materials were not observed within the undocumented fill materials during the drilling operations. Deleterious materials could impede horizontal drilling equipment or excavation if encountered. Although deleterious materials were not encountered in the undocumented fill materials, this does not eliminate the possibility that deleterious materials could be present within the undocumented fill materials at other locations along the project.

Topsoil Discussion

Topsoil materials as described in this report have not been analyzed for quality according to any minimum specifications. If topsoil is to be imported to or exported from this site, Rubino recommends that it meet the minimum specifications defined in **Section 1081.05** of the *IDOT Standard Specifications for Road and Bridge Construction*, adopted by the Illinois Department of Transportation, January 1st, 2022.

Rubino has reported topsoil thicknesses at each boring based on visual observation of surficial soils. Surficial topsoil thickness was visually observed to be between approximately 4 and 14 inches.

SUMMARY OF GEOTECHNICAL CONSIDERATIONS

The main geotechnical design and construction considerations at this site are:

- In general, the **asphalt thicknesses** observed at core locations ranged between approximately 3 and 4 ½ inches. Concrete, with an approximate thickness of 15 inches, was observed beneath the asphalt at core C-01. See the *Surface Conditions* section for more information.

- The **subbase stone thickness observed at B-03 was** approximately 10 ½ inches. See the *Surface Conditions* section for more detailed information.

- **Subgrade soils** generally consisted of undocumented fill and possible fill underlain by brown and/or gray silty clay, brown and gray silty sand, and gray gravelly sand soils. See the *Subsurface Conditions* and *Undocumented Fill Discussion* sections for more detailed information.

    - **Possible cobbles/boulders were encountered** within boring B-06 during drilling.

- **Free, possibly perched, groundwater was observed** within some of the borings during drilling operations and 24-hour delayed water level readings. See the *Groundwater Conditions* and *Dewatering* sections for more information.

- **Internally braced trench boxes** will be needed to support the open cut construction in areas where soils with low blow counts and/or high moisture contents or loose saturated granular materials were encountered within the borings. See the *Trench Box Excavation Recommendations* and *Lateral Earth Pressures* sections for more information.

- **Horizontal Directional Drilling (HDD)** may not be a possible option at this site. See the *Utility Installation Considerations* and *Trenchless Construction Alternatives - HDD* sections for more information

The geotechnical-related recommendations in this report are presented based on the subsurface conditions encountered and Rubino's understanding of the project. Should changes in the project criteria occur, a review must be made by Rubino to determine if modifications to our recommendations will be necessary.

EVALUATION AND RECOMMENDATIONS

The geotechnical-related recommendations in this report are presented based on the subsurface conditions encountered and Rubino's understanding of the project. Should changes in the project criteria occur, a review must be made by Rubino to determine if modifications to our recommendations will be necessary.

Utility Installation Considerations

Cross sections included in the RFP document show that the new sanitary force main will bear at depths ranging from approximately 8 to 15 feet below existing grade. The silty clay and sand soils were soft/loose and saturated in some of the borings at that depth range and may need additional bedding stone for support.

Rubino recommends that the force main be supported by a granular bedding material similar to the gradation of an IDOT CA-07 stone. The thickness of the bedding material should be at least 6 inches and additional bedding stone should be added as needed to bridge over softer/looser soils.

The following geotechnical considerations should be taken into account when considering either trenching or trenchless techniques performed as part of this project:

Table 5: Geotechnical Considerations for Utility Installation

BORING NUMBER (LOCATION)	APPROXIMATE DEPTH RANGE (FEET BEG*)	SOIL CONSIDERATIONS
B-01 & B-02 (Fisher Ln)	1 – 8 ½	Undocumented fill with elevated moisture contents that may not be self-supporting
	2 – 6	Shallow, possibly perched, groundwater encountered at depths ranging from approximately 2 to 6 feet below existing grade *(B-06)*
	6 – 9 ½	Loose, saturated granular soils that are likely not self-supporting and may require additional bedding stone to support the proposed force main
B-03 (Fisher Ln)	1 – 6	Possible undocumented fill or buried topsoil with elevated moisture contents that may not be self-supporting
B-05	1 – 6	Undocumented fill that may not be self-supporting

Boring Number (Location)	Approximate Depth Range (feet BEG*)	Soil Considerations
(Sheridan)	6 – 11	Low strength, silty clay soils with elevated moisture contents that may not be self-supporting and may require additional bedding stone to support the proposed force main
B-06 (Sheridan)	1 – 6	Granular undocumented fill that is likely not self-supporting
	6 – 8 ½	Possible cobbles / boulders encountered that could make HDD or excavation difficult

*BEG = below existing grade

Please note, problematic soils may be encountered at other locations or depths for this project and therefore, trench boxes should be anticipated for the entire project. Lateral earth pressures should be considered when using trench boxes or other shoring methods for the excavations.

Trenchless Construction Alternatives - HDD

Horizontal Directional Drilling (HDD) is typically used when trenching or open excavation is not practical, such as water crossings, road/railway crossings, or in other sensitive crossings.

HDD is compatible with a wide range of soil conditions. However, very loose, soft, squeezing, collapsible, or flowing soils that are not self-supporting, and highly permeable, large-grained cohesionless soils and fractured rock are problematic for HDD. These problematic soils could present some difficulties related to bore stability, settlement, and inadvertent drilling fluid returns, depending on the type of soil.

Some of the problematic soils listed above were observed within the borings taken on the project site and therefore HDD may not be a possibility. Please consult a qualified contractor to discuss means and methods.

Utility Installation and Backfill Recommendations

If granular material is used for the backfill of the utility trench, the **granular material should have a gradation that will filter protect the backfill material from the adjacent fine-grained soils as applicable**. If this gradation is not available, a geosynthetic non-woven filter fabric should be used to reduce the potential for the migration of fines into the backfill material. Granular backfill material shall be compacted to meet the following compaction criteria.

Structural fill placed in utility trenches shall be evaluated in accordance with the following table:

Material Tested	Proctor Type*-1	Min % Dry Density	Placement Moisture Content Range	Frequency of Testing*-2	Maximum Loose Lift Height

Utility Trench Backfill	Standard	95%	-2 to +2 %	1 per 200 LF of fill placed	4 – 6 inches

*-1 The test frequency for the laboratory reference shall be one laboratory Proctor test for each material used on the site. If the borrow or source of fill material changes, a new reference moisture/density test should be performed.

*-2A minimum of one test per lift is recommended unless otherwise specified.

In general, utility trench backfill materials should:

- Have a Standard Proctor maximum dry density greater than 100 pcf
- Be free of organic or other deleterious materials
- Have a maximum particle size no greater than 3 inches
- Each lift of compacted, engineered fill should be tested and documented by a representative of the geotechnical engineer prior to placement of subsequent lifts
- Soils classified as GP, GW, SP, and SW will generally be suitable for use as utility trench backfill.
- Soils classified as CL, ML, SC, SM, OL, OH, MH, CH, and PT should be considered unsuitable.
- If water must be added, it should be uniformly applied and thoroughly mixed into the soil

Tested fill materials that do not achieve either the required dry density or moisture content range shall be recorded, the location noted, and reported to the Contractor and Owner. A re-test of that area should be performed after the Contractor performs remedial measures. The above test frequencies should be discussed with the contractor prior to starting the work.

The geotechnical engineer of record can only certify work that was performed under their direct observation, or under the observation of a competent person under their specific direction.

Trench Box Excavation Recommendations

Excavation for trenches shall be performed in accordance with OSHA regulations as stated in 29 CFR Part 1926. Within those regulations, OSHA created a classification of soils in decreasing order of stability. According to the OSHA classification method of soils, Rubino expects that the soils acting on the trench boxes would classify as Type A, Type B, and Type C soils.

If open cut excavations are planned for this project, trench boxes should be budgeted and utilized throughout the construction as necessary and as required by OSHA. Lateral earth pressures should be considered when using trench boxes or other shoring methods for excavations. Please see the *Lateral Earth Pressures* section for additional information.

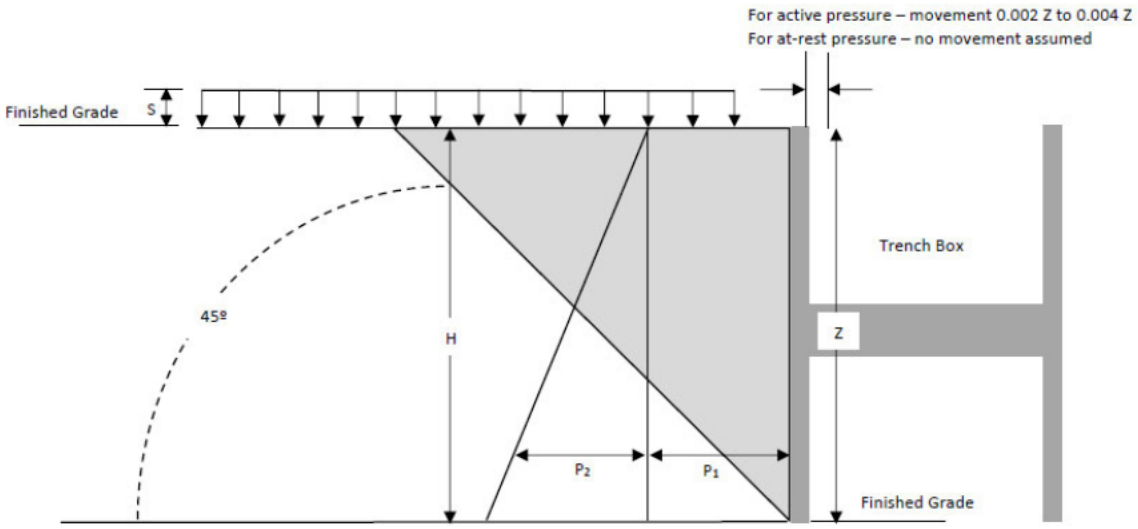
Lateral Earth Pressures

Lateral earth pressures will be influenced by the conditions of wall or support restraint, methods of construction and/or compaction and the strength of the materials being restrained.

Lateral earth pressure is developed from the soils present within a wedge formed by the vertical below-grade trench box wall and an imaginary line extending up and away from the bottom of the wall at an approximate 45° angle.

The lateral earth pressures are determined by multiplying the vertical applied pressure by the appropriate lateral earth pressure coefficient K. Rubino recommends designing the bracing for the temporary excavation for the force main for the "at-rest" lateral earth pressure condition using K_o.

Earth Pressure Coefficients



The following table provides the recommended "at-rest" lateral earth pressure coefficients for the soils encountered. Also included are the "active" lateral earth pressure coefficients if needed.

Table 6: "K-Factor" Lateral Earth Pressures

Approximate Depth Range (feet BEG*)	Soil Type	Estimated Total Unit Weight (lb/ft^3)	Estimated Friction Angle	K_o	K_A
1 – 8 ½	FILL / Possible Fill	115 – 125	26°	0.56	0.39
6 – 16	Soft to medium stiff silty CLAY				
6 – 9 ½	Loose to medium dense Silty SAND or SAND	120 – 130	28°	0.53	0.36
3 ½ – 20	Stiff to hard silty CLAY	120 – 130			

*BEG = below existing grade
**For soils below the groundwater table, subtract 62.4 pcf from the total unit weight

The following equations were used to calculate the earth pressure coefficients "k".

At-Rest:	$k_o = 1 - \sin\phi$	If the walls are rigidly attached to the structure and not free to rotate or deflect at the top such as shallow tunnels
Active:	$k_a = \tan^2(45 - \frac{\phi}{2})$	Walls that are permitted to rotate and deflect at the top

Conditions applicable to the above conditions include:

- For active earth pressure, wall must rotate about base, with top lateral movements 0.002Z to 0.004Z, where Z is the wall height
- Uniform surcharge, where S is surcharge pressure
- Hydrostatic Pressure designed to elevations as recommended herein
- No safety factor included

Dewatering Recommendations

Dewatering may be necessary during excavation of soils due to possible perched water, free groundwater, precipitation, surficial runoff, and the presence of sand seams or other conditions not apparent at the time of drilling. Shoring or trench boxes may be required where the soils are granular, saturated, or have low shear strengths. Please reference the anticipated groundwater levels on the attached boring logs and in the *Groundwater Conditions* section of this report.

Recommendations for Additional Testing

If the scope or location of the planned improvements change, please notify Rubino so that we can review our recommendations for the direct use and development of the site.

During construction, Rubino recommends that one of our representatives be onsite for typical **observations and documentation** of exposed subgrade for trench excavation, including penetrometer testing and trench backfill compaction testing, as necessary.

CLOSING

The recommendations submitted are based on the available subsurface information obtained by Rubino Engineering, Inc. and design details furnished by Strand Associates, Inc. for the proposed project. If there are any revisions to the plans for this project or if deviations from the subsurface conditions noted in this report are encountered during construction, Rubino should be notified immediately to determine if changes in the recommendations are required. If Rubino is not retained to perform these functions, we will not be responsible for the impact of those conditions on the project.

The scope of services did not include an environmental assessment to determine the presence or absence of wetlands, or hazardous or toxic materials in the soil, bedrock, surface water, groundwater or air on, below, or around this site. Any statements in this report and/or on the

boring logs regarding odors, colors, and/or unusual or suspicious items or conditions are strictly for informational purposes.

After the plans and specifications are more complete, the geotechnical engineer should be retained and provided the opportunity to review the final design plans and specifications to check that our engineering recommendations have been properly incorporated into the design documents. At this time, it may be necessary to submit supplementary recommendations. This report has been prepared for the exclusive use of Strand Associates, Inc. and their consultants for the specific application to the proposed Ravines Force Main Rehabilitation and Replacement in Winnetka, Illinois.

ASTM D1586 Penetration Tests and Split-Barrel Sampling of Soils

During the sampling procedure, Standard Penetration Tests (SPT's) were performed at regular intervals to obtain the standard penetration (N-value) of the soil. The results of the standard penetration test are used to estimate the relative strength and compressibility of the soil profile components through empirical correlations to the soils' relative density and consistency. The split-barrel sampler obtains a soil sample for classification purposes and laboratory testing, as appropriate for the type of soil obtained.

Water Level Measurements

Water level observations were attempted during and upon completion of the drilling operation using a 100-foot tape measure. The depths of observed water levels in the boreholes are noted on the boring logs presented in the appendix of this report. In the borings where water is unable to be observed during the field activities, in relatively impervious soils, the accurate determination of the groundwater elevation may not be possible even after several days of observation. Seasonal variations, temperature and recent rainfall conditions may influence the levels of the groundwater table and volumes of water will depend on the permeability of the soils.

ASTM D2216 Water (Moisture) Content of Soil by Mass (Laboratory)

The water content is an important index property used in expressing the phase relationship of solids, water, and air in a given volume of material and can be used to correlate soil behavior with its index properties. In fine grained cohesive soils, the behavior of a given soil type often depends on its natural water content. The water content of a cohesive soil along with its liquid and plastic limits as determined by Atterberg Limit testing are used to express the soil's relative consistency or liquidity index.

ASTM D2974 Standard Test Method for Organic Soils using Loss on Ignition (Laboratory)

These test methods cover the measurement of moisture content, ash content, and organic matter in peats and other organic soils, such as organic clays, silts, and mucks. Ash content of a peat or organic soil sample is determined by igniting the oven-dried sample from the moisture content determination in a muffle furnace at 440°C (Method C) or 750°C (Method D). The substance remaining after ignition is the ash. The ash content is expressed as a percentage of the mass of the oven-dried sample. 2.4 Organic matter is determined by subtracting percent ash content from 100.

ASTM D4318 Atterberg Limits (Laboratory)

Atterberg limit testing defines the liquid limit (LL) and plastic limit (PL) states of a given soil. These limits are used to determine the moisture content limits where the soil characteristics change from behaving more like a fluid on the liquid limit end to where the soil behaves more like individual soil particles on the plastic limit end. The liquid limit is often used to determine if a soil is a low or high plasticity soil. The plasticity index (PI) is the difference between the liquid limit and the plastic limit. The plasticity index is used in conjunction with the liquid limit to determine if the material will behave like a silt or clay.

Appendix B – Report Limitations

Subsurface Conditions:

The subsurface description is of a generalized nature to highlight the major subsurface stratification features and material characteristics. The boring logs included in the appendix should be reviewed for specific information at individual boring locations. These records include soil descriptions, stratifications, penetration resistances, locations of the samples and laboratory test data as well as water level information. The stratifications shown on the boring logs represent the conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials and the actual transition between layers may be gradual. The samples, which were not altered by laboratory testing, will be retained for up to 60 days from the date of this report and then will be discarded.

Geotechnical Risk:

The concept of risk is an important aspect of the geotechnical evaluation. The primary reason for this is that the analytical methods used to develop geotechnical recommendations do not comprise an exact science. The analytical tools that geotechnical engineers use are generally empirical and must be used in conjunction with engineering judgment and experience. Therefore, the solutions and recommendations presented in the geotechnical evaluation should not be considered risk-free, and more importantly, are not a guarantee that the interaction between the soils and the proposed structure will perform as planned. The engineering recommendations, presented in the preceding section, constitute Rubino's professional estimate of the necessary measures for the proposed structure to perform according to the proposed design based on the information generated and reference during this evaluation, and Rubino's experience in working with these conditions.

Warranty:

The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

Federal Excavation Regulations:

In Federal Register, Volume 54, No. 209 (October 1989), the United States Department of Labor, Occupational Safety and Health Administration (OSHA) amended its "Construction Standards for Excavations, 29 CFR, part 1926, Subpart P". This document was issued to better ensure the safety of workmen entering trenches or excavations. This federal regulation mandates that all excavations, whether they be utility trenches, basement excavation or footing excavations, be constructed in accordance with the new OSHA guidelines. It is our understanding that these regulations are being strictly enforced and if they are not closely followed, the owner and the contractor could be liable for substantial penalties.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractor's "responsible person," as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations. Rubino is providing this information solely as a service to our client. Rubino is not assuming responsibility for construction site safety or the contractor's activities; such responsibility is not being implied and should not be inferred.

Appendix C – Soil Classification General Notes

DRILLING & SAMPLING SYMBOLS:

SS:	Split Spoon - 1 3/8" I.D., 2" O.D., unless otherwise noted	PS:	Piston Sample
ST:	Thin-Walled Tube - 3" O.D., Unless otherwise noted	WS:	Wash Sample
PM:	Pressuremeter	HA:	Hand Auger
RB:	Rock Bit	HS:	Hollow Stem Auger
DB:	Diamond Bit - 4", N, B	BS:	Bulk Sample

Standard "N" Penetration: Blows per foot of a 140-pound hammer falling 30 inches on a 2-inch O.D. split spoon sampler (SS), except where noted.

WATER LEVEL MEASUREMENT SYMBOLS:
Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of ground water levels is not possible with only short-term observations.

DESCRIPTIVE SOIL CLASSIFICATION:
Soil Classification is based on the Unified Soil Classification System as defined in ASTM D-2487 and D-2488. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; they are described as: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are described as: clays, if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse grained soils are defined on the basis of their relative in-place density and fine-grained soils on the basis of their consistency. Example: Lean clay with sand, trace gravel, stiff (CL); silty sand, trace gravel, medium dense (SM).

CONSISTENCY OF FINE-GRAINED SOILS:

Unconfined Compressive Strength, Qu (tsf)			N-Blows/ft.			Consistency
	<	0.25	< 2			Very Soft
0.25	-	0.5	2	-	4	Soft
0.5	-	1	4	-	8	Medium Stiff
1	-	2	8	-	15	Stiff
2	-	4	15	-	30	Very Stiff
4	-	8	30	-	50	Hard
>	-	8	> 50			Very Hard

RELATIVE DENSITY OF COARSE-GRAINED SOILS

N-Blows/ft.			Relative Density
0	-	3	Very Loose
4	-	9	Loose
10	-	29	Medium Dense
30	-	49	Dense
50	-	80	Very Dense
		80+	Extremely Dense

RELATIVE PROPORTIONS OF SAND & GRAVEL

Descriptive Term	% of Dry Weight		
Trace		<	15
With	15	-	29
Modifier		>	30

RELATIVE PROPORTIONS OF FINES

Descriptive Term	% of Dry Weight		
Trace		<	5
With	5	-	12
Modifier		>	12

*Descriptive Terms apply to components also present in sample

GRAIN SIZE TERMINOLOGY

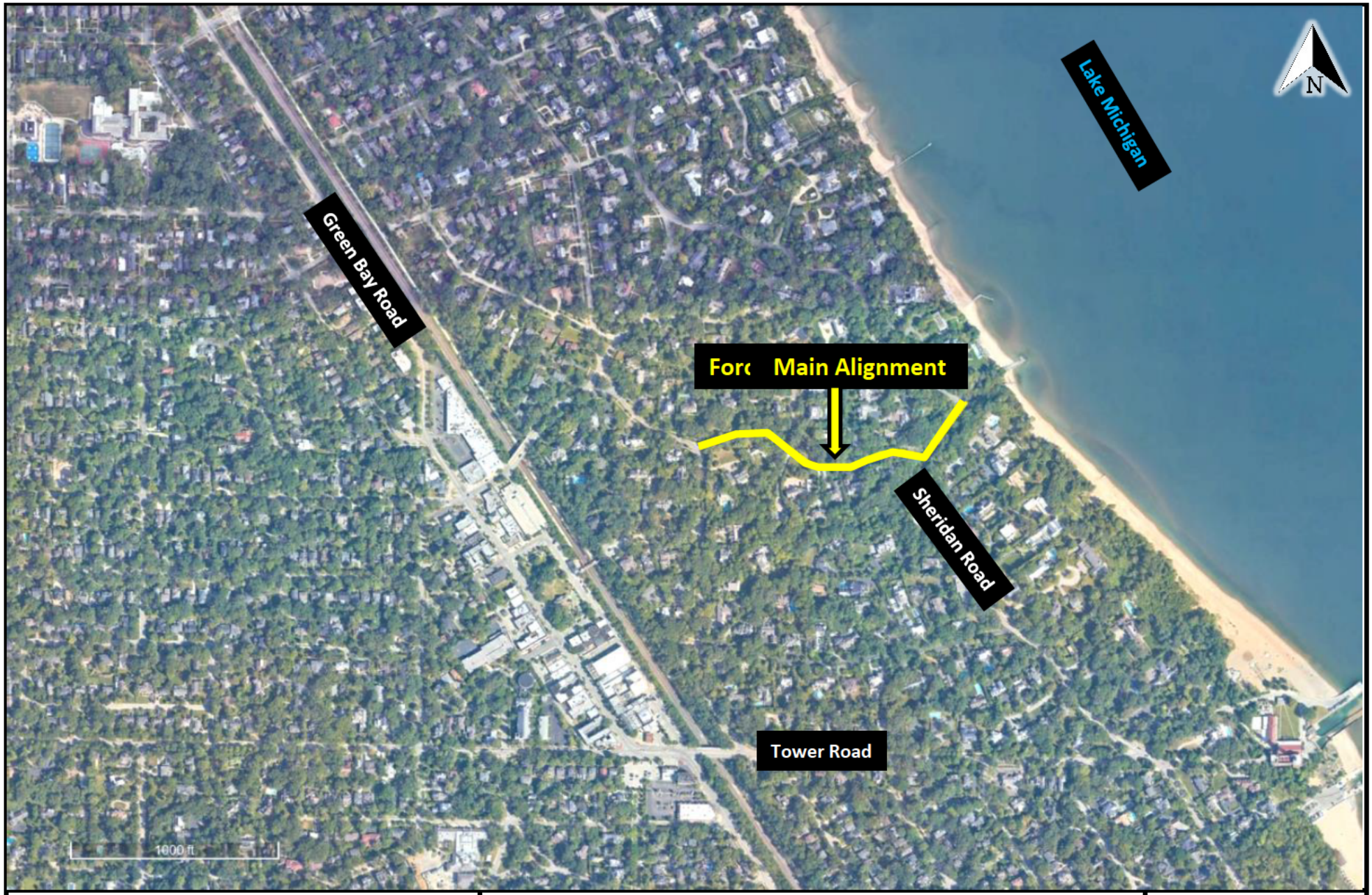
Major Component	Size Range
Boulders	Over 12 in. (300mm)
Cobbles	12 in. To 3 in. (300mm to 75mm)
Gravel	3 in. To #4 sieve (75mm to 4.75mm)
Sand	#4 to #200 sieve (4.75mm to 0.75mm)

SOIL CLASSIFICATION CHART

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

MAJOR DIVISIONS			SYMBOLS: GRAPH	SYMBOLS: LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS — MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS — MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS — MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS — MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

Appendix E – Site Vicinity Map & Boring Location Plan



rubino ENGINEERING INC.	
425 Shepard Drive **Elgin, Illinois 60123**	
Project Name:	**Ravinces Force Main Rehabilitation & Replacement**
Project Location:	Fisher Lane and Sheridan Road Winnetka, Illinois
Client:	**Strand Associates, Inc.**
Rubino Project # :	G25.042
Site Vicinity Map	

rubino ENGINEERING INC.

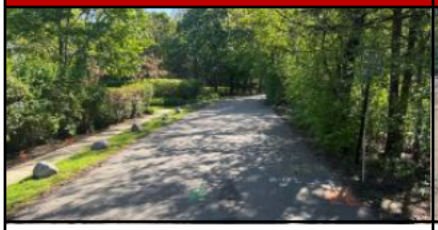
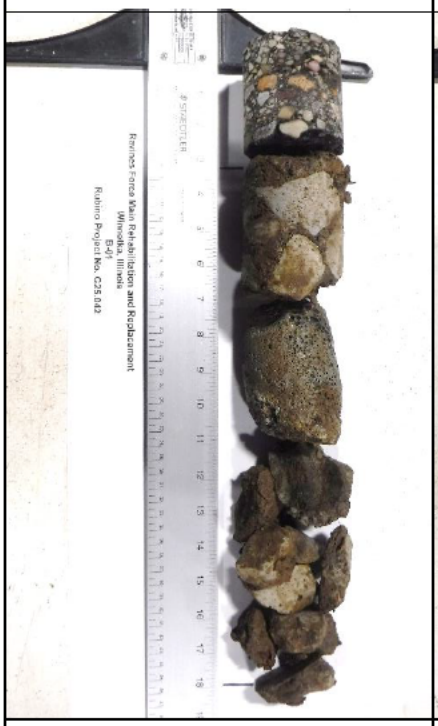
425 Shepard Drive
Elgin, Illinois 60123

Project Name:	**Ravinces Force Main Rehabilitation & Replacement**
Project Location:	Fisher Lane and Sheridan Road Winnetka, Illinois
Client:	**Strand Associates, Inc.**
Rubino Project # :	G25.042

Boring Location Plan

Appendix F – Pavement Core Summary Table

Cores were taken in the pavement of Fisher Lane in Winnetka, Illinois. The table below summarizes the thicknesses observed in the field and laboratory.

C-01 (Fisher Lane)	C-03 (Fisher Lane)
	
Picture Taken Facing East	Picture Taken Facing East
	
Total Thickness = 18 inches **HMA Surface$_1$ = 1 ¼ in.** **HMA Binder$_1$ = 1 ¾ in.** **Weathered Concrete = 15 in.** **Cracked, Weathered & Deteriorated** **Subbase Stone Not Observed**	**Total Thickness = 4 ½ inches** **HMA Surface$_1$ = 1 ½ in.** **HMA Binder$_1$ = 3 in.** **Subbase Stone = 10 ½ inches**

The referenced thicknesses are considered approximate. Commentary provided by Rubino is based on our observation in the laboratory; **Crack** = vertical through cross section; **Weathering** = rounded edges & degradation of asphalt and **Deterioration** = horizontal crack. Pavement and subbase type and thickness may vary between core locations. Any comments on the condition of the material are considered our opinion and should be verified by the design engineer.

Appendix G – Boring Logs

Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-01

Rubino Job No.:	G25.042
Project:	Ravines Force Main Rehabilitation
Location:	Fisher Lane and Sheridan Road
City, State:	Winnetka, Illinois
Client:	Strand Associates, Inc.
Drilling Method:	2 ¼ Hollow Stem Auger
Sampling Method:	Split Spoon
Hammer Type:	Automatic
Boring Location:	Fisher Lane

WATER LEVELS***

While Drilling	N/A
Upon Completion	N/A
24-hr Delay	N/A

Station: N/A
Offset: N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	Classification	SPT Blows per 6-inch	Moisture, %	Additional Remarks
	0					Approximately 10 inches of TOPSOIL: dark brown and black silty clay, with roots and organic matter				
				1	14	FILL: dark brown and black silty clay, trace sand and gravel		4-2-5 N=7	26	Qp=2.50 tsf PID=8.9 ppm 5% Organic content
				2	8	*Large tree root observed in spoon at approximately 3½ feet BEG* *Sample partially ribboned*		3-4-6 N=10	34	Qp=1.50 tsf 3% Organic content
	5			3	10	FILL: brown, black, and gray silty clay, trace sand and gravel		3-8-8 N=16	21	Qp=2.50 tsf PID=7.4 ppm
				4	18	Very stiff, brown silty CLAY, trace sand and gravel	CL	9-10-17 N=27	23	Qp=4.50 tsf
	10					End of boring at approximately 10 feet below existing grade.				

STANDARD PENETRATION TEST DATA
Moisture | PL | LL
0 25 50
STRENGTH, tsf
Qu (Rimac) | Qp/Qr
0 2.0 4.0

Completion Depth:	10.0 ft
Date Boring Started:	5/23/25
Date Boring Completed:	5/23/25
Logged By:	J.K.
Drilling Contractor:	Rubino Engineering, Inc.

Sample Types:
Auger Cutting
Split-Spoon
Rock Core
Direct Push
Shelby Tube
Grab Sample
No Recovery

Latitude: 42.1198630
Longitude: -87.7412746
Drill Rig: Geoprobe 7822DT
Remarks:
Log Entry: J. Ignarski
Checked By: J. Ignarski

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations and elevation definitions.

Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-02

Rubino Job No.:	G25.042
Project:	Ravines Force Main Rehabilitation
Location:	Fisher Lane and Sheridan Road
City, State:	Winnetka, Illinois
Client:	Strand Associates, Inc.
Drilling Method:	2 ¼ Hollow Stem Auger
Sampling Method:	Split Spoon
Hammer Type:	Automatic
Boring Location:	Fisher Lane

WATER LEVELS***

While Drilling	6 ft
Upon Completion	5 ft
24-hr Delay	2 ft

Station: N/A
Offset: N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	Classification	SPT Blows per 6-inch	Moisture, %	Additional Remarks
	0					Approximately 8 inches of TOPSOIL: dark brown and black silty clay, with roots and organic matter				
				1	14	FILL: dark brown and black silty clay, trace sand and gravel		1-1-2 N=3	25	Qp=1.00 tsf PID=30.1 ppm 4% Organic content
				2	16	FILL: black and dark gray silty clay, trace sand and gravel		2-2-3 N=5	40	Qp=1.25 tsf 2% Organic content
	5			3	18	Loose, brown and gray silty SAND, trace gravel	SM	3-3-5 N=8	23	PID=34.8 ppm
				4	18	Medium dense, gray gravelly SAND	SW	4-9-5 N=14		
						Stiff, gray silty CLAY, trace sand and gravel	CL		17	Qp=2.25 tsf
	10					End of boring at approximately 10 feet below existing grade.				

STANDARD PENETRATION TEST DATA
Moisture, PL, LL (0, 25, 50)
STRENGTH, tsf: Qu (Rimac), Qp/Qr (0, 2.0, 4.0)

Completion Depth:	10.0 ft
Date Boring Started:	5/23/25
Date Boring Completed:	5/23/25
Logged By:	J.K.
Drilling Contractor:	Rubino Engineering, Inc.

Sample Types:
Auger Cutting
Split-Spoon
Rock Core
Direct Push
Shelby Tube
Grab Sample
No Recovery

Latitude: 42.1198076
Longitude: -87.7399895
Drill Rig: Geoprobe 7822DT
Remarks: Offset ~15 ft S due to utilities
Log Entry: J. Ignarski
Checked By: J. Ignarski

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations and elevation definitions.

rubino ENGINEERING INC.
Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-03

Rubino Job No.:	G25.042
Project:	Ravines Force Main Rehabilitation
Location:	Fisher Lane and Sheridan Road
City, State:	Winnetka, Illinois
Client:	Strand Associates, Inc.
Drilling Method:	2 ¼ Hollow Stem Auger
Sampling Method:	Split Spoon
Hammer Type:	Automatic
Boring Location:	Fisher Lane

WATER LEVELS***

While Drilling	N/A
Upon Completion	N/A
24-hr Delay	N/A

Station: N/A
Offset: N/A

Elevation (feet)	Depth, (feet)	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	Classification	SPT Blows per 6-inch	Moisture, %	Additional Remarks
	0			Approximately 14 inches of TOPSOIL: dark brown and black silty clay, with roots and organic matter				
		1	18	Medium stiff, black silty CLAY, trace sand and gravel *Possible Fill / Buried Topsoil*	CL	2-2-4 N=6	47	Qp=1.00 tsf PID=1.5 ppm 2% Organic content
		2	12	Stiff, brown and dark brown silty CLAY, trace sand and gravel *Possible Fill*	CL	6-6-6 N=12	25	Qp=1.25 tsf 2% Organic content
	5	3	10	Very stiff to hard, brown silty CLAY, trace sand and gravel		5-9-14 N=23	26	Qp=4.50 tsf PID=1.4 ppm 3% Organic content
		4	6		CL	14-16-21 N=37	17	Qp=4.50 tsf
	10	5	18	*Color transitions from brown to gray at approximately 11 feet BEG* *Sample ribboned*		10-10-14 N=24	16	PID=1.4 ppm
		6	18	Stiff, gray silty CLAY, trace sand and gravel		4-6-8 N=14	17	Qp=4.25 tsf
	15	7	18		CL	3-4-7 N=11	17	Qp=3.00 tsf PID=1.3 ppm
		8	18			4-6-7 N=13	18	Qp=2.75 tsf
	20			End of boring at approximately 20 feet below existing grade.				

STANDARD PENETRATION TEST DATA
Moisture, PL, LL (0, 25, 50)
STRENGTH, tsf: Qu (Rimac), Qp/Qr (0, 2.0, 4.0)

Completion Depth:	20.0 ft
Date Boring Started:	5/23/25
Date Boring Completed:	5/23/25
Logged By:	J.K.
Drilling Contractor:	Rubino Engineering, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Direct Push, Shelby Tube, Grab Sample, No Recovery

Latitude: 42.1194888
Longitude: -87.7391094
Drill Rig: Geoprobe 7822DT
Remarks:
Log Entry: J. Ignarski
Checked By: J. Ignarski

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations and elevation definitions.

Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-05

Rubino Job No.:	G25.042
Project:	Ravines Force Main Rehabilitation
Location:	Fisher Lane and Sheridan Road
City, State:	Winnetka, Illinois
Client:	Strand Associates, Inc.
Drilling Method:	2 ¼ Hollow Stem Auger
Sampling Method:	Split Spoon
Hammer Type:	Automatic
Boring Location:	Sheridan Road

WATER LEVELS***

While Drilling	N/A
Upon Completion	N/A
24-hr Delay	15 ft

Station: N/A
Offset: N/A

Elevation (feet)	Depth, (feet)	Sample No.	Sample Type	Recovery (inches)	MATERIAL DESCRIPTION	Classification	SPT Blows per 6-inch	Moisture, %	Additional Remarks
	0				Approximately 10 inches of TOPSOIL: dark brown and black silty clay, with roots and organic matter				
		1		18	FILL: brown, black, and gray silty clay, with sand and gravel		6-5-5 N=10	19	Qp=4.00 tsf PID=2.8 ppm
		2		0	*No recovery. Soils classified from auger cuttings.*		2-2-3 N=5	21	
	5	3		18	Soft, gray silty CLAY, trace gravel *Possible Fill*		1-1-2 N=3	17	Qp=0.75 tsf PID=1.9 ppm
		4		12		CL	3-1-2 N=3	27	LL = 47 PL = 18 8% Organic content Qp=0.75 tsf
	10	5		18	Medium stiff, gray silty CLAY, trace sand and gravel *Roots Observed*		0-2-2 N=4	28	Qp=1.50 tsf PID=2.1 ppm 1% Organic content
		6		16		CL	0-3-3 N=6	25	Qp=2.50 tsf 3% Organic content
	15	7		18	Stiff, gray silty CLAY, trace sand and gravel		3-4-6 N=10	18	Qp=2.75 tsf PID=1.6 ppm
		8		18		CL	3-6-7 N=13	19	Qp=3.00 tsf
	20				End of boring at approximately 20 feet below existing grade.				

STANDARD PENETRATION TEST DATA
Moisture, PL, LL (0 – 25 – 50)
STRENGTH, tsf: Qu (Rimac), Qp/Qr (0 – 2.0 – 4.0)

Completion Depth:	20.0 ft
Date Boring Started:	5/23/25
Date Boring Completed:	5/23/25
Logged By:	J.K.
Drilling Contractor:	Rubino Engineering, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Direct Push, Shelby Tube, Grab Sample, No Recovery

Latitude: 42.1196633
Longitude: -87.7376787
Drill Rig: Geoprobe 7822DT
Remarks: Offset ~10 ft NW due to utilities
Log Entry: J. Ignarski
Checked By: J. Ignarski

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations and elevation definitions.

rubino ENGINEERING INC.
Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING B-06

Rubino Job No.:	G25.042
Project:	Ravines Force Main Rehabilitation
Location:	Fisher Lane and Sheridan Road
City, State:	Winnetka, Illinois
Client:	Strand Associates, Inc.
Drilling Method:	2 ¼ Hollow Stem Auger
Sampling Method:	Split Spoon
Hammer Type:	Automatic
Boring Location:	Sheridan Road

WATER LEVELS***

While Drilling	N/A
Upon Completion	N/A
24-hr Delay	N/A

Station: N/A
Offset: N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	Classification	SPT Blows per 6-inch	Moisture, %	Additional Remarks
	0					Approximately 4 inches of TOPSOIL: dark brown and black silty clay, with roots and organic matter				
				1	18	FILL: gray gravelly sand		18-23-19 N=42	11	PID=40.2 ppm
				2	12			8-10-8 N=18	15	
	5			3	18	Very stiff, brown silty CLAY, trace sand and gravel *Possible cobbles/boulders encountered. N-values may be elevated.*	CL	9-16-10 N=26	24	Qp=2.25 tsf PID=5.8 ppm
				4	16	Medium stiff, brown silty CLAY, trace sand and gravel	CL	2-3-3 N=6	16	Qp=1.75 tsf
	10					End of boring at approximately 10 feet below existing grade.				

STANDARD PENETRATION TEST DATA
Moisture, PL, LL (0, 25, 50)
STRENGTH, tsf
Qu (Rimac), Qp/Qr (0, 2.0, 4.0)

Completion Depth:	10.0 ft
Date Boring Started:	5/23/25
Date Boring Completed:	5/23/25
Logged By:	J.K.
Drilling Contractor:	Rubino Engineering, Inc.

Sample Types:
Auger Cutting
Split-Spoon
Rock Core
Direct Push
Shelby Tube
Grab Sample
No Recovery

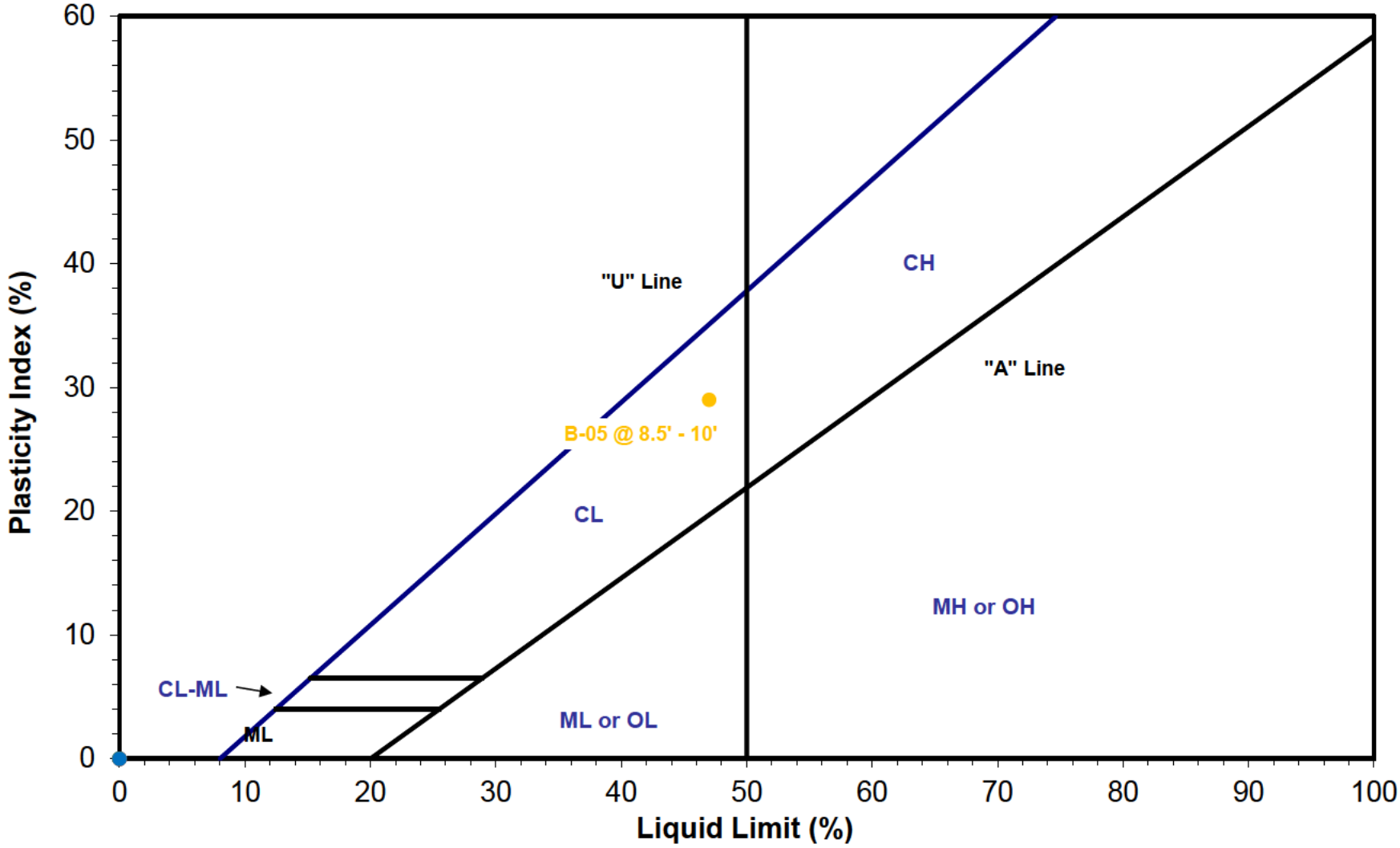
Latitude: 42.1202657
Longitude: -87.7369344
Drill Rig: Geoprobe 7822DT
Remarks: Offset ~6 ft S due to utilities
Log Entry: J. Ignarski
Checked By: J. Ignarski

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations and elevation definitions.

Appendix H – Laboratory Results

rubino ENGINEERING INC.

Report of Atterberg Limits Test (ASTM D4318 / AASHTO T89 / AASHTO T90)



Boring #	B-05 @ 8.5' - 10'					
LL	47					
PL	18					
PI	29					

Project: Ravines Force Main Rehabilitation and Replacement
Location: Winnetka, Illinois
Client: Strand Associates, Inc.
Project #: G25.042

Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Source Site Certification by Owner or Operator for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-662

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by source site owners and operators to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(A), that soil (i) was removed from a site that is not potentially impacted property and is presumed to be uncontaminated soil and (ii) is within a pH range of 6.25 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: Ravines Force Main Rehabilitation and Replacement Office Phone Number, if available: _____

Physical Site Location (Street, Road): Fisher Lane. See attached summary report for exclusion zones.

City: Winnetka State: IL Zip Code: 60093 County: Lake

Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.11959 (Decimal Degrees) Longitude: - 87.73877 (-Decimal Degrees)

Identify how the lat/long data were determined:

○ GPS ⊘ Map Interpolation ○ Photo Interpolation ○ Survey ○ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Village of Winnetka	Name:	
Street Address:	510 Green Bay Road	Street Address:	
PO Box:		PO Box:	
City:	Winnetka State: IL	City:	State:
Zip Code:	60093 Phone: 847-501-6000	Zip Code:	Phone:
Contact:		Contact:	
Email, if available:		Email, if available:	

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: Ravines Force Main Rehabilitation and Replacement Latitude: 42.11959 Longitude: -87.73877

Source Site Certification

III. Descriptions of Current and Past Uses of Source Site

Describe the current and past uses of the site and nearby properties.* Attach additional information as needed. The description must take into account, at a minimum, the following for the source site and for nearby property: (1) use of the properties for commercial or industrial purposes; (2) the use, storage or disposal of chemical or petroleum products in individual containers greater than 5 gallons or collectively more than 50 gallons; (3) the current or past presence of any storage tanks (above ground or underground); (4) any waste storage, treatment or disposal at the properties; (5) any reported releases or any environmental cleanup or removal of contaminants; (6) any environmental liens or governmental notification of environmental violations; (7) any contamination in a well that exceeds the Board's groundwater quality standards; (8) the use, storage, or disposal of transformers or capacitors manufactured before 1979; and (9) any fill dirt brought to the properties from an unknown source or site.

Number of pages attached: 62

Prior to a site investigation, an Environmental Database Review (EDR) was conducted for the project area. Based on the EDR five (5) soil samples were collected through out the project area and were tested for pH. Refer to attached Summary Letter.

*The description must be sufficient to demonstrate that the source site is not potentially impacted property, thereby allowing the source site owner or operator to provide this certification.

IV. Soil pH Testing Results

Describe the results of soil pH testing showing that the soil pH is within the range of 6.25 to 9.0 and attach any supporting documentation.

Number of pages attached: 1

Five [5] samples were collected and tested for pH. Results were within the range of 6.25 to 9.0 . Please refer to pH Results in Appendix A.2.
Elevated PID readings (≥5 ppm) were recorded for samples B-01, B-02, and B-06, ranging from 8.9 to 40.2 ppm.

V. Source Site Owner, Operator or Authorized Representative's Certification Statement and Signature

In accordance with the Illinois Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I Anthony Tomaras, P.G. Rubino Engineering, Inc. (owner, operator or authorized representataive of source site) certify that this site is not a potentially impacted property and the soil is presumed to be uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. I further certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. Additionally, I certify that I am either the site owner or operator or a duly authorized representative of the site owner or site operator and am authorized to sign this form. Furthermore, I certify that all information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

○ Owner ☑ Owner's Duly Authorized Representative ○

Anthony Tomaras, P.G. Rubino Engineering, Inc. 6-27-25

Printed Name Date

[redacted]

Signature

rubino ENGINEERING INC.

ENVIRONMENTAL SUMMARY REPORT

June 27, 2025

To: Matt Lichtenwalter
Strand Associates, Inc.
1170 South Houbolt Road
Joliet, IL 60431
P: 815.744.4200

Re: **CCDD Testing Summary Report**
Ravines Force Main Rehabilitation and Replacement
Fisher Lane and Sheridan Road
Winnetka, Illinois

Rubino Report No. G25.042

Via email: Matt.Lichtenwalter@strand.com

Dear Mr. Lichtenwalter,

Rubino Engineering, Inc. (Rubino) is pleased to submit the following report to provide a summary of the CCDD testing for the above referenced project.

This report contains the following:

- *Summary of Environmental Database Review*
- *Summary of field and laboratory tests performed*
- *Summary of laboratory test results*
- *Illinois Environmental Protection Agencies LPC 662 Certificate*

ENVIROMENTAL DATABASE REVIEW

The project site is located along Fisher Lane and Sheridan Road in Winnetka, Illinois. A map of the project location can be found in **Appendix A.1**. Prior to a site investigation, an Environmental Database Review (EDR) was conducted and the report is included as **Appendix A.3**. After reviewing the EDR report, Rubino. did not find any records of potentially impacted properties in close proximity to the project site that posed an environmental risk.

Based on the fact there were no records of potentially impacted properties in close proximity to the project site that posed an environmental risk, it was determined the project site is not a "potentially impacted property" and therefore only pH sampling of the project site was necessary.

Certification Limits

The LPC 662 Certification Limits include the following locations in Winnetka, Illinois.

- **Fisher Lane** from approximately 275 feet east of Fisher Crescent Lane to Sheridan Road

The following locations are excluded from the LPC 662 Certification:

- ***Fisher Lane from Old Green Bay Rod to approximately 275 feet east of Fisher Crescent Lane***
- ***Sheridan Road from approximately 450 feet north to 850 feet north of Ravine Road***

SOIL SAMPLING

On May 23, 2025, Rubino mobilized to the project site to collect soil samples. The sampling locations can be found in **Appendix A.1**. Five (5) soil samples were collected to approximate depths ranging from approximately 10 to 20 feet below existing grade. The samples were screened for fuels and volatiles with a Photoionization Detector (PID). **Elevated PID readings (≥5 ppm) were recorded for samples B-01, B-02, and B-06, ranging from 8.9 to 40.2 ppm.** The five (5) samples were submitted for pH testing at Rubino.

RESULTS

Lab analysis found that the soil samples were within the allowable pH range of 6.25 to 9.0.

The pH lab analysis results and complete reports can be found in **Appendix A.2**.

Based on the results of the PID readings and laboratory testing performed, an **IEPA LPC #662 (CCDD) Certificate was issued for a portion of the site only.** The soils excavated from the exclusion zones during construction activity can be managed in the following ways:

- Re-use material on the same project site
- Perform proper testing and obtain completed Waste Characterization form for disposal of at a "Subtitle D" Municipal Solid Waste Landfill
- Delineation tests can be performed to reduce the exclusion zones

CLOSING

Rubino appreciates the opportunity to provide Clean Construction Demolition Debris (CCDD) services for this project and we look forward to continued participation during the design and in future construction phases of this project.

If you have questions pertaining to this summary report, or if Rubino may be of further service, please contact our office at (847) 931-1555.

Respectfully submitted,

RUBINO ENGINEERING, INC.

[redacted]

Michelle A. Lipinski, PE
President
michelle.lipinski@rubinoeng.com
MAL/file/ Enclosures

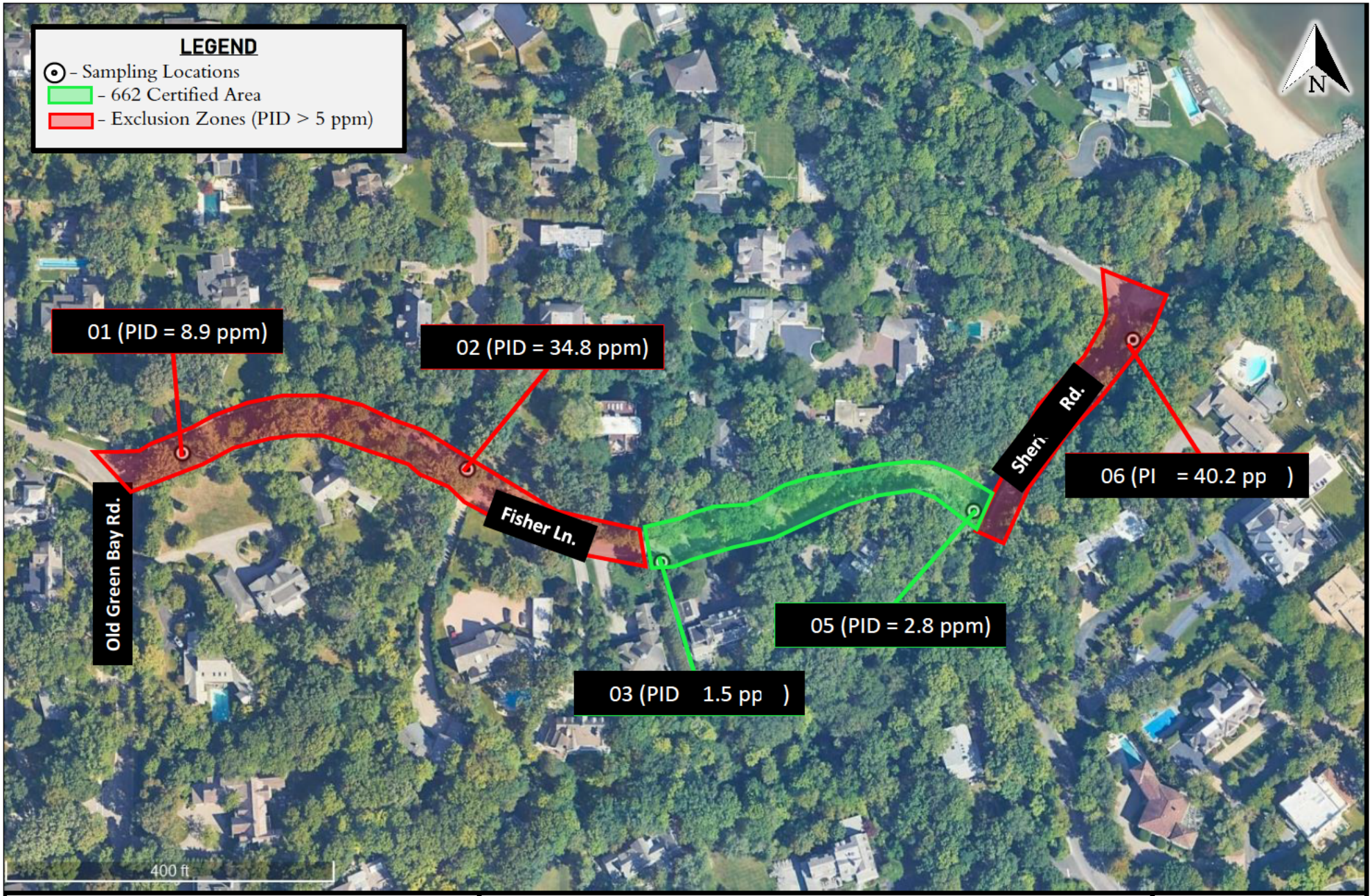
Appendix Contents

APPENDIX A.1 – SITE MAPS
APPENDIX A.2 – pH RESULTS
APPENDIX A.3 – ERIS DATABASE REPORT

Prepared by: Parth Patel

Reviewed by: Jonathan Ignarski

APPENDIX A.1 – SITE MAPS



rubino ENGINEERING INC.

425 Shepard Drive
Elgin, Illinois 60123

Project Name:	**Ravines Force Main Rehabilitation & Replacement**
Project Location:	Fisher Lane and Sheridan Road Winnetka, Illinois
Client:	**Strand Associates, Inc.**
Rubino Project # :	G25.042

CCDD Testing Plan

APPENDIX A.2 – pH RESULTS

ASTM D4972-01
Standard Test Method for pH of Soils

rubino ENGINEERING INC.

		Date:	29-May-25
Project Number:	G25.042	**Performed by:**	Parth Patel
Project Name:	Ravines Force Main Rehabilitation and Replacement	**Title:**	Soil Scientist
		Signature:	Parth Patel
City, State:	Winnetka, Illinois	**Client:**	Strand Associates, Inc.
Method Used:	ASTM D4972-01 Method A Calcium Chloride Solution (0.01M)	**Client Address:**	1170 South Houbolt Road Joliet, Illinois, 60431
pH Meter Mfgr:	Ohaus Corporation	**Prior Calibration:**	4/7/2025 @ 8:00am
Model #	ST Series PH Analysis Pen	**Calibration:**	5/8/2025 @ 9:00am

Location	Depth (ft)	Sample Type	Mass of Soil (g)	pH in Calcium Chloride Solution	pH in Distilled Water
B-01	5	Grab	10	7.54	7.98
B-02	5	Grab	10	7.34	7.77
B-03	10	Grab	10	7.92	8.52
B-05	10	Grab	10	7.54	8.01
B-06	7½	Grab	10	7.33	7.68

APPENDIX A.3– ERIS DATABASE REPORT

DATABASE REPORT

Project Property:	*42.12027739249111, -87.74083196621892 W* *42.12027739249111, -87.74083196621892* *Winnetka IL 60093*
Project No:	
Report Type:	*Screen Report Plus*
Order No:	*25060400285*
Requested by:	*Bluff City Materials, Inc*
Date Completed:	*June 4, 2025*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

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Executive Summary

Property Information:

Project Property: *42.12027739249111, -87.74083196621892W*
42.12027739249111, -87.74083196621892 Winnetka IL 60093

Project No:

Coordinates:

Latitude:	*42.1202774*
Longitude:	*-87.740832*
UTM Northing:	*4,663,396.16*
UTM Easting:	*438,761.56*
UTM Zone:	*16T*

Elevation: *655 FT*

Order Information:

Order No:	*25060400285*
Date Requested:	*June 4, 2025*
Requested by:	*Bluff City Materials, Inc*
Report Type:	*Screen Report Plus*

Historicals/Products:

ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*

Executive Summary: Report Summary

Database	Searched	Project Property	Within 0.250mi	Total
Standard Environmental Records				
Federal				
NPL	Y	0	0	0
PROPOSED NPL	Y	0	0	0
DELETED NPL	Y	0	0	0
SEMS	Y	0	0	0
ODI	Y	0	0	0
SEMS ARCHIVE	Y	0	0	0
CERCLIS	Y	0	0	0
IODI	Y	0	0	0
CERCLIS NFRAP	Y	0	0	0
CERCLIS LIENS	Y	0	0	0
RCRA CORRACTS	Y	0	0	0
RCRA TSD	Y	0	0	0
RCRA LQG	Y	0	0	0
RCRA SQG	Y	0	0	0
RCRA VSQG	Y	0	0	0
RCRA NON GEN	Y	0	***1***	***1***
RCRA CONTROLS	Y	0	0	0
FED ENG	Y	0	0	0
FED INST	Y	0	0	0
LUCIS	Y	0	0	0
NPL IC	Y	0	0	0
ERNS 1982 TO 1986	Y	0	0	0
ERNS 1987 TO 1989	Y	0	0	0
ERNS	Y	0	0	0
FED BROWNFIELDS	Y	0	0	0
FEMA UST	Y	0	0	0

Database	Searched	Project Property	Within 0.250mi	Total
FRP	Y	0	0	0
DELISTED FRP	Y	0	0	0
HIST GAS STATIONS	Y	0	0	0
REFN	Y	0	0	0
BULK TERMINAL	Y	0	0	0
SEMS LIEN	Y	0	0	0
SUPERFUND ROD	Y	0	0	0
State				
SSU	Y	0	0	0
DELISTED SSU	Y	0	0	0
SWF/LF	Y	0	0	0
SWF/LF SPECIAL	Y	0	0	0
NIPC	Y	0	0	0
CCDD	Y	0	0	0
LUST	Y	0	**1**	**1**
LUST DOCUMENT	Y	0	**1**	**1**
DELISTED LUST	Y	0	0	0
LUST TRUST	Y	0	0	0
UST	Y	0	**1**	**1**
AST	Y	0	0	0
DELISTED TANK	Y	0	0	0
ENG	Y	0	0	0
INST	Y	0	0	0
AUL	Y	0	0	0
SRP	Y	0	**1**	**1**
REM ASSESS	Y	0	**1**	**1**
BROWNFIELDS	Y	0	0	0
BROWN MBRGP	Y	0	0	0
Tribal				
INDIAN LUST	Y	0	0	0
INDIAN UST	Y	0	0	0
DELISTED INDIAN LST	Y	0	0	0
DELISTED INDIAN UST	Y	0	0	0
County				
TANKS CHICAGO	Y	0	0	0

Additional Environmental Records

Database	Searched	Project Property	Within 0.250mi	Total
Federal				
PFAS GHG	Y	0	0	0
OSC RESPONSE	Y	0	0	0
FINDS/FRS	Y	0	**7**	**7**
TRIS	Y	0	0	0
HMIRS	Y	0	0	0
NCDL	Y	0	0	0
TSCA	Y	0	0	0
HIST TSCA	Y	0	0	0
FTTS ADMIN	Y	0	0	0
FTTS INSP	Y	0	0	0
PRP	Y	0	0	0
SCRD DRYCLEANER	Y	0	0	0
ICIS	Y	0	0	0
FED DRYCLEANERS	Y	0	0	0
DELISTED FED DRY	Y	0	0	0
FUDS	Y	0	0	0
FUDS MRS	Y	0	0	0
FORMER NIKE	Y	0	0	0
PIPELINE INCIDENT	Y	0	0	0
MLTS	Y	0	0	0
HIST MLTS	Y	0	0	0
MINES	Y	0	0	0
SMCRA	Y	0	0	0
MRDS	Y	0	0	0
LM SITES	Y	0	0	0
ALT FUELS	Y	0	0	0
CONSENT DECREES	Y	0	0	0
AFS	Y	0	0	0
SSTS	Y	0	0	0
PCBT	Y	0	0	0
PCB	Y	0	0	0
POWER PLANTS	Y	0	0	0
HIST RISK	Y	0	0	0
State				
SPILLS	Y	0	**1**	**1**
SPILL OER	Y	0	0	0
DRYCLEANERS	Y	0	0	0
DELISTED DRYCLEANERS	Y	0	0	0
IEPA DOCS	Y	0	**2**	**2**

Database	Searched	Project Property	Within 0.250mi	Total
CDL	Y	0	0	0
TIER 2	Y	0	0	0
AIR PERMITS	Y	0	0	0
UIC	Y	0	0	0
MEDICAL WASTE	Y	0	0	0
COMPOST	Y	0	0	0

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Total:	*0*	***16***	***16***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	SRP	Chandler Residence	1095 Fisher Lane Winnetka IL 60093	NNE	0.09 / 480.95	-1	17
1	FINDS/FRS	CHANDLER, FRED (RESIDENCE)	1095 FISHER LN WINNETKA IL 60093 ***Registry ID:*** 110018329913	NNE	0.09 / 480.95	-1	17
1	REM ASSESS	Chandler, Fred (residence) - 170000483395	1095 Fisher Ln Winnetka IL 60093	NNE	0.09 / 480.95	-1	18
2	FINDS/FRS	RAU, JOHN-LAKE MICHIGAN	1135 SHERIDAN RD WINNETKA IL 60093 ***Registry ID:*** 110055409008	NNE	0.16 / 855.68	-27	19
3	FINDS/FRS	CHASE, ROBERT-LAKE MICHIGAN	1111 SHERIDAN RD WINNETKA IL 60093 ***Registry ID:*** 110055408875	ENE	0.19 / 1,027.75	-5	20
4	FINDS/FRS	HOVEY, DAVID-LAKE MICHIGAN	1085 SHERIDAN RD WINNETKA IL 60093 ***Registry ID:*** 110055408893	ENE	0.20 / 1,035.63	-13	21
5	FINDS/FRS	BENDY, JOSEPH C-LAKE MICHIGAN	1077 SHERIDAN RD WINNETKA IL 60093 ***Registry ID:*** 110055408848	E	0.20 / 1,060.53	-25	21
5	FINDS/FRS	HULSIZER MATT - LAKE MICHIGAN	1077 SHERIDAN RD WINNETKA IL 60093 ***Registry ID:*** 110064441992	E	0.20 / 1,060.53	-25	22
6	UST	Hubbard Woods Motors	985 Green Bay Rd Winnetka IL ***Facility No | Facility Status:*** 2022233 | Closed ***Tank No | Status | Removed Date:*** 4 | Removed | 9/17/1988, 5 | Removed | 9/17/1988, 7 | Removed | 12/10/2015, 3 | Removed | 9/17/1988, 1 | Removed | 9/17/1988, 6 | Abandoned in place | , 2 | Removed | 9/17/1988	WSW	0.23 / 1,230.12	6	23
6	FINDS/FRS	HUBBARD WOODS MOTORS INC	985 GREEN BAY RD WINNETKA IL 60093 ***Registry ID:*** 110005840849	WSW	0.23 / 1,230.12	6	26
6	SPILLS	Robert Berger	985 Greenbay Rd Winnetka IL ***Incident No:*** H-2015-1274	WSW	0.23 / 1,230.12	6	27
6	LUST	Berger, Robert	985 Greenbay Road Winnetka IL 60093 ***Incident No | Incidents ID | NFR Date:*** 20151274 | 27764 | 01/21/2016	WSW	0.23 / 1,230.12	6	28

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
6	LUST DOCUMENT	Hubbard Woods Motors Inc - 170000232139	985 Green Bay Rd Winnetka IL 60093	WSW	0.23 / 1,230.12	6	29
6	IEPA DOCS	Hubbard Woods Motors Inc	985 Green Bay Rd Winnetka IL 60093	WSW	0.23 / 1,230.12	6	29
6	RCRA NON GEN	HUBBARD WOODS MOTORS INC	985 GREEN BAY RD WINNETKA IL 60093	WSW	0.23 / 1,230.12	6	30
			***Handler ID	Recycler Activity?:*** ILD082554858 | NO			
7	IEPA DOCS	Glencoe, Village of	45 Green Bay Rd Glencoe IL 60022	W	0.25 / 1,310.26	9	34

Executive Summary: Summary by Data Source

Standard

Federal

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Jan 6, 2025 has found that there are 1 RCRA NON GEN site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
HUBBARD WOODS MOTORS INC	985 GREEN BAY RD WINNETKA IL 60093	WSW	0.23 / 1,230.12	6
	***Handler ID | Recycler Activity?**: ILD082554858 | NO*			

State

LUST - Leaking Underground Storage Tanks (LUST)

A search of the LUST database, dated Mar 20, 2025 has found that there are 1 LUST site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Berger, Robert	985 Greenbay Road Winnetka IL 60093	WSW	0.23 / 1,230.12	6
	***Incident No | Incidents ID | NFR Date**: 20151274 | 27764 | 01/21/2016*			

LUST DOCUMENT - Leaking UST Document

A search of the LUST DOCUMENT database, dated Mar 17, 2025 has found that there are 1 LUST DOCUMENT site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Hubbard Woods Motors Inc - 170000232139	985 Green Bay Rd Winnetka IL 60093	WSW	0.23 / 1,230.12	6

UST - Underground Storage Tank Database (UST)

A search of the UST database, dated Feb 25, 2025 has found that there are 1 UST site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Hubbard Woods Motors	985 Green Bay Rd Winnetka IL	WSW	0.23 / 1,230.12	6
	***Facility No | Facility Status**: 2022233 | Closed* ***Tank No | Status | Removed Date**: 4 | Removed | 9/17/1988, 5 | Removed | 9/17/1988, 7 | Removed | 12/10/2015, 3 | Removed | 9/17/1988, 1 | Removed | 9/17/1988, 6 | Abandoned in place | , 2 | Removed |*			

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	9/17/1988			

SRP - Illinois Site Remediation Program Database

A search of the SRP database, dated Apr 17, 2025 has found that there are 1 SRP site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Chandler Residence	1095 Fisher Lane Winnetka IL 60093	NNE	0.09 / 480.95	1

REM ASSESS - Document Explorer Remediation and Assessment Sites

A search of the REM ASSESS database, dated Mar 17, 2025 has found that there are 1 REM ASSESS site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Chandler, Fred (residence) - 170000483395	1095 Fisher Ln Winnetka IL 60093	NNE	0.09 / 480.95	1

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Apr 23, 2025 has found that there are 7 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
HUBBARD WOODS MOTORS INC	985 GREEN BAY RD WINNETKA IL 60093 ***Registry ID**: 110005840849*	WSW	0.23 / 1,230.12	6

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CHANDLER, FRED (RESIDENCE)	1095 FISHER LN WINNETKA IL 60093 ***Registry ID**: 110018329913*	NNE	0.09 / 480.95	1
RAU, JOHN-LAKE MICHIGAN	1135 SHERIDAN RD WINNETKA IL 60093 ***Registry ID**: 110055409008*	NNE	0.16 / 855.68	2
CHASE, ROBERT-LAKE MICHIGAN	1111 SHERIDAN RD WINNETKA IL 60093	ENE	0.19 / 1,027.75	3

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
	***Registry ID**: 110055408875*			
HOVEY, DAVID-LAKE MICHIGAN	1085 SHERIDAN RD WINNETKA IL 60093	ENE	0.20 / 1,035.63	4
	***Registry ID**: 110055408893*			
HULSIZER MATT - LAKE MICHIGAN	1077 SHERIDAN RD WINNETKA IL 60093	E	0.20 / 1,060.53	5
	***Registry ID**: 110064441992*			
BENDY, JOSEPH C-LAKE MICHIGAN	1077 SHERIDAN RD WINNETKA IL 60093	E	0.20 / 1,060.53	5
	***Registry ID**: 110055408848*			

State

SPILLS - Spills and Incidents

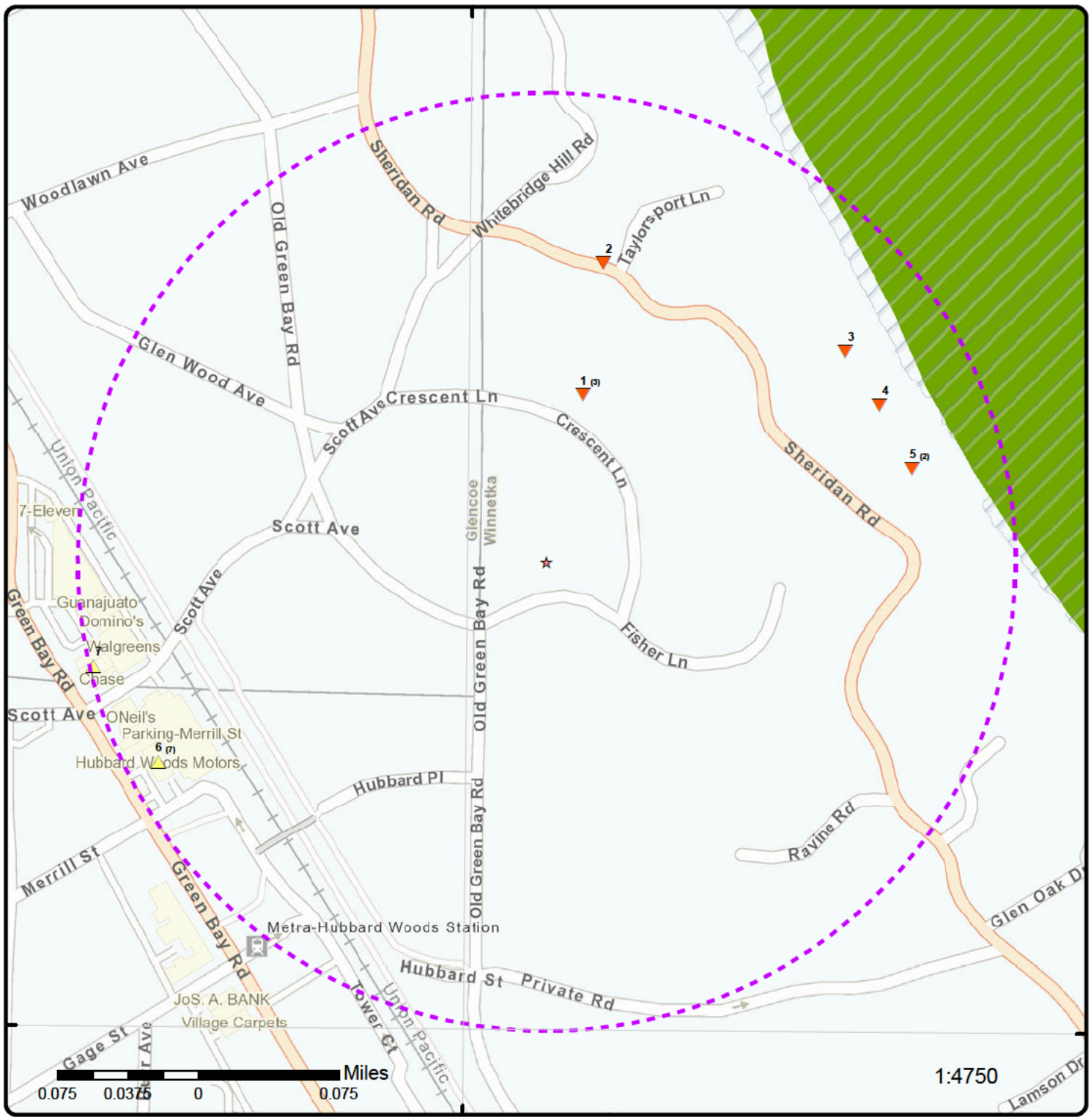
A search of the SPILLS database, dated Dec 10, 2024 has found that there are 1 SPILLS site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Robert Berger	985 Greenbay Rd Winnetka IL	WSW	0.23 / 1,230.12	6
	***Incident No**: H-2015-1274*			

IEPA DOCS - IEPA Document Explorer

A search of the IEPA DOCS database, dated Mar 17, 2025 has found that there are 2 IEPA DOCS site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Hubbard Woods Motors Inc	985 Green Bay Rd Winnetka IL 60093	WSW	0.23 / 1,230.12	6
Glencoe, Village of	45 Green Bay Rd Glencoe IL 60022	W	0.25 / 1,310.26	7

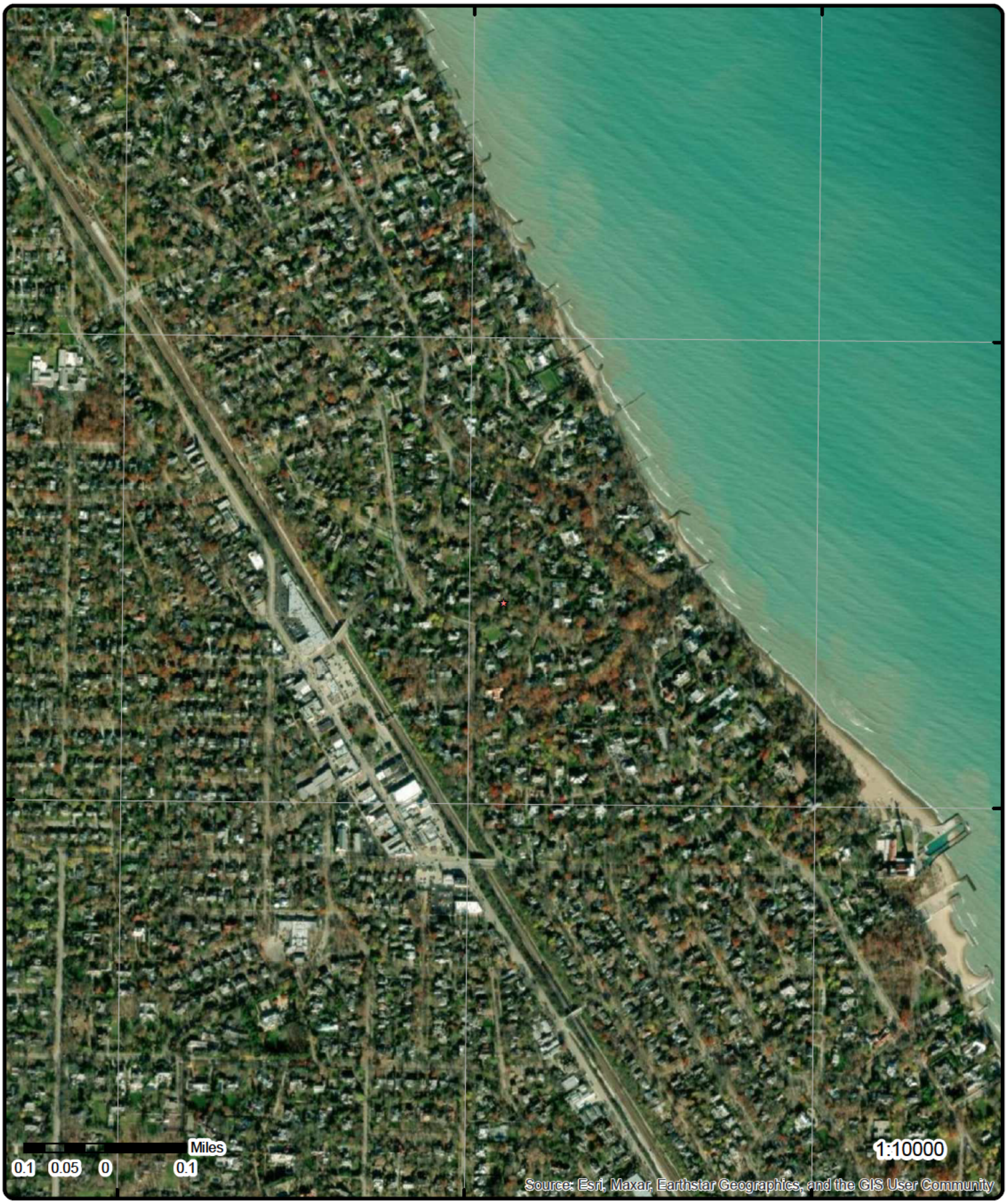


Map: 0.25 Mile Radius

Order Number: 25060400285

Address: 42.12027739249111, -87.74083196621892, Winnetka, IL

- ☆ Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)



Aerial Year: 2021

Order Number: 25060400285

Address: 42.12027739249111, -87.74083196621892, Winnetka, IL

Source: ESRI World Imagery

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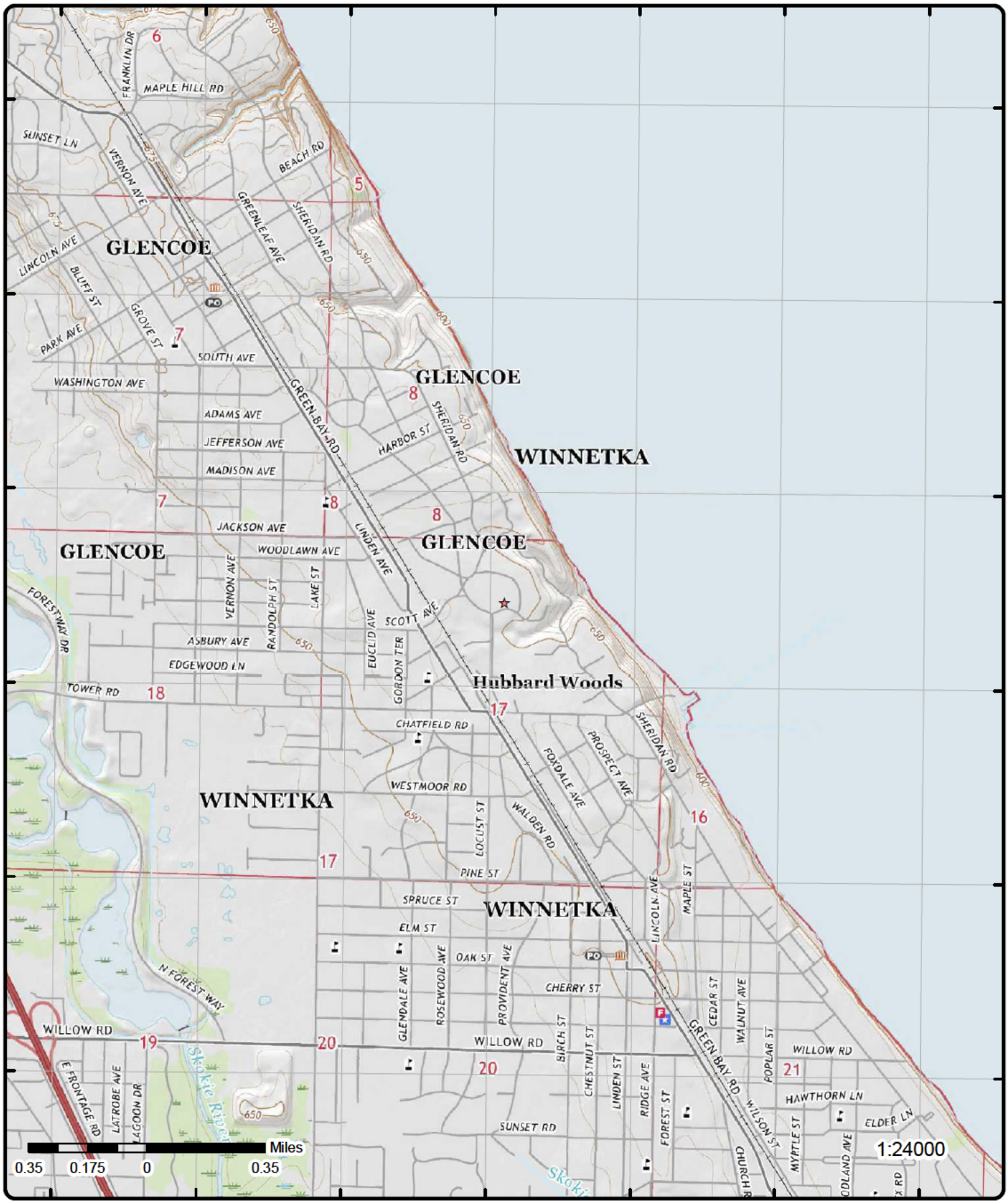

Topographic Map

Year: 2021

Order Number: 25060400285

Address: 42.12027739249111, -87.74083196621892, IL

Quadrangle(s): Highland Park OE E IL, Evanston IL, Park Ridge IL

© ERIS Information Inc.

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 3	NNE	0.09 / 480.95	653.96 / -1	Chandler Residence 1095 Fisher Lane Winnetka IL 60093	SRP

IEPA ID: 0313335036
US EPA ID:
County: Cook
Source: Site Remediation Program Database Search (Site List) (as of 17 Apr 2025)
Longitude: -87.740051
Latitude: 42.119915

Site Applicant / Consultant Information

RA Title: President
RA First Name: Stanley
RA Last Name: Benecki
RA Address1: 716 Oak Street
RA Address2:
RA City: Winnetka, IL
RA Zip: 60093
Consultant Contact: Harry A. Chappel, P.E.
RA Company: Benecki Builders, Inc.
Consultant Company: CSD Environmental Services, Inc.
Received SA Date: 9/3/1997
PM ID: Not assigned
Foury Letter Date:
Active Site: No
Consultant Address1: 2220 Yale Boulevard
Consultant Address2:
Consultant City: Springfield, IL
Consultant Zip: 62703

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	2 of 3	NNE	0.09 / 480.95	653.96 / -1	CHANDLER, FRED (RESIDENCE) 1095 FISHER LN WINNETKA IL 60093	FINDS/FRS

Registry ID: 110018329913
FIPS Code: 17031
HUC Code: 04040002
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 19-OCT-04
Update Date: 17-AUG-07
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 10

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Census Block Code:	170318004001007
EPA Region Code:	05
County Name:	COOK
US/Mexico Border Ind:	
Latitude:	42.120009
Longitude:	-87.740745
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value:	50
Datum:	NAD83
Source:	
Facility Detail Rprt URL:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110018329913
Program Acronyms:	

ACES:170000483395

1	3 of 3	NNE	0.09 / 480.95	653.96 / -1	**Chandler, Fred (residence) - 170000483395** **1095 Fisher Ln** **Winnetka IL 60093**	REM ASSESS

Note:	Documents related to facilities in Illinois can be searched on the Illinois Environmental Protection Agency (IEPA) Document Explorer: https://external.epa.illinois.gov/DocumentExplorer
Data Source:	IEPA Source Water Assessment Program (SWAP) & Mapping Tool (Map); IEPA Document Explorer - Facility/Site Search (Web) (as of 17 Mar 2025)

IEPA Document Explorer

Name:	Chandler, Fred (residence) - 170000483395
Address:	1095 Fisher Ln
City:	Winnetka
State:	IL
Zip Code:	60093

Details

Program ID:	0313335036	**Total Pages:**	1
Document Count:	1		
Category:	Site Remediation - Technical		
Originating Bureau:	Bureau of Land		
Category URL:	https://docuware67.illinois.gov/DocuWare/PlatformRO/WebClient/3/Integration?lc=VXNlcj1kd3B1YmxpY1xuUHdkPU4xbWRhJHRyYXRvclBANTU1&p=RLV&rl=ce728c9a-11c1-4ddf-9003-314169ab1943&tw=Results&q=W0lFUEFJRF09IjE3MDAwMDQ4MzM5NSIgQU5EIFtDQVRFR09SWV09IjMxQSI1	

IEPA Source Water Assessment Program (SWAP) & Mapping Tool

Name:	Chandler, Fred (residence)
Location Addr 3:	1095 Fisher Ln
City Name:	Winnetka
State Code:	IL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Postal Code: 60093

Details

Indicator:	Yes	**Interest Type:**	VSRU
Site ID:	170000483395	**Latitude Measure:**	42.11991
System ID:	0313335036	**Longitude Measure:**	-87.74005
RID:	1207156	**Point X:**	-87.74004999999994
Media Code:	LAND	**Point Y:**	42.11991000000006
Revision Dt Time:	06/30/2003		
Collection Dt:	09/03/1997		

Details

Indicator:	Yes	**Interest Type:**	BOL
Site ID:	170000483395	**Latitude Measure:**	42.119915
System ID:	0313335036	**Longitude Measure:**	-87.740051
RID:	726370	**Point X:**	-87.74005099999994
Media Code:	LAND	**Point Y:**	42.11991500000005
Revision Dt Time:	06/30/2003		
Collection Dt:	01/31/2012		

2	1 of 1	NNE	0.16 / 855.68	628.35 / -27	RAU, JOHN-LAKE MICHIGAN 1135 SHERIDAN RD WINNETKA IL 60093	FINDS/FRS

Registry ID: 110055409008
FIPS Code: 17031
HUC Code: 04040002
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 29-JUL-13
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 10
Census Block Code: 170318004001002
EPA Region Code: 05
County Name: COOK
US/Mexico Border Ind:
Latitude: 42.122555

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Longitude: -87.74019
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055409008
Program Acronyms:

ACES:170001979296

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
3	1 of 1	ENE	0.19 / 1,027.75	650.32 / -5	CHASE, ROBERT-LAKE MICHIGAN 1111 SHERIDAN RD WINNETKA IL 60093	FINDS/FRS

Registry ID: 110055408875
FIPS Code: 17031
HUC Code: 04040002
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 29-JUL-13
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 10
Census Block Code: 170318004001006
EPA Region Code: 05
County Name: COOK
US/Mexico Border Ind:
Latitude: 42.1217
Longitude: -87.73866
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055408875
Program Acronyms:

ACES:170001979143

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
4	1 of 1	ENE	0.20 / 1,035.63	642.55 / -13	HOVEY, DAVID-LAKE MICHIGAN 1085 SHERIDAN RD WINNETKA IL 60093	FINDS/FRS

Registry ID: 110055408893
FIPS Code: 17031
HUC Code: 04040002
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 29-JUL-13
Update Date: 29-JUL-13
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 10
Census Block Code: 170318004001006
EPA Region Code: 05
County Name: COOK
US/Mexico Border Ind:
Latitude: 42.12097
Longitude: -87.73801
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055408893
Program Acronyms:

ACES:170001979161, ACES:170001979303

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	1 of 2	E	0.20 / 1,060.53	630.54 / -25	BENDY, JOSEPH C-LAKE MICHIGAN 1077 SHERIDAN RD WINNETKA IL 60093	FINDS/FRS

Registry ID: 110055408848
FIPS Code: 17031
HUC Code: 04040002
Site Type Name: STATIONARY
Location Description:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Supplemental Location:
Create Date: 29-JUL-13
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 10
Census Block Code: 170318004001008
EPA Region Code: 05
County Name: COOK
US/Mexico Border Ind:
Latitude: 42.12061
Longitude: -87.73735
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055408848
Program Acronyms:

ACES:170001979116

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	2 of 2	E	0.20 / 1,060.53	630.54 / -25	HULSIZER MATT - LAKE MICHIGAN 1077 SHERIDAN RD WINNETKA IL 60093	FINDS/FRS

Registry ID: 110064441992
FIPS Code: 17031
HUC Code: 04040002
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 18-JUN-15
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 10
Census Block Code: 170318004001008
EPA Region Code: 05
County Name: COOK
US/Mexico Border Ind:
Latitude: 42.12061
Longitude: -87.73735
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110064441992
Program Acronyms:

ACES:170002102891

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6 | **1 of 7** | **WSW** | **0.23 / 1,230.12** | **661.21 / 6** | **Hubbard Woods Motors**
985 Green Bay Rd
Winnetka IL | **UST**

Facility No: 2022233
Facility Status: Closed
Fac Details Status: Closed
Fac Type Fac Details: None
Facility Type: None
Owner Type: Private
Owner Status: Current Owner
County: Cook
Owner Name: Hubbard Woods Motors
Facility URL: http://webapps.sfm.illinois.gov/ustsearch/Facility.aspx?ID=2022233
Permit History Link: https://webapps.sfm.illinois.gov/USTPortal/Permit/FacilityPermitList/2022233

Tank Information

Tank No: 4
Ul No:
Status: Removed
Removed Date: 9/17/1988
Install Date:
Abandoned Date:
Last Used Date:
Red Tag Issue Date:
CAS Code:
OSFM First Noti Dt: 6/7/1986
Capacity: 3000
Petroleum Use:
Product: Gasoline
CERCLA Substance:
Current Age: 24
Abandoned Material:
Product Date:
Fee Due: $0.00
Regulated Status: Federal

Tank Information

Tank No: 5
Ul No:
Status: Removed
Capacity: 10000
Petroleum Use:
Product: Gasoline

Removed Date:	9/17/1988	***CERCLA Substance:***	
Install Date:		***Current Age:***	22
Abandoned Date:		***Abandoned Material:***	
Last Used Date:		***Product Date:***	
Red Tag Issue Date:		***Fee Due:***	$0.00
CAS Code:		***Regulated Status:***	Federal
OSFM First Noti Dt:	6/7/1986		

Tank Information

Tank No:	7	***Capacity:***	1000
Ul No:		***Petroleum Use:***	Consumptive Use on Premises for Heating
Status:	Removed	***Product:***	Heating Oil
Removed Date:	12/10/2015	***CERCLA Substance:***	
Install Date:	9/1/1966	***Current Age:***	49
Abandoned Date:		***Abandoned Material:***	
Last Used Date:	6/1/1981	***Product Date:***	9/1/1966
Red Tag Issue Date:		***Fee Due:***	$0.00
CAS Code:		***Regulated Status:***	State
OSFM First Noti Dt:	10/8/2015		

Tank Information

Tank No:	3	***Capacity:***	2000
Ul No:		***Petroleum Use:***	
Status:	Removed	***Product:***	Gasoline
Removed Date:	9/17/1988	***CERCLA Substance:***	
Install Date:		***Current Age:***	24
Abandoned Date:		***Abandoned Material:***	
Last Used Date:		***Product Date:***	
Red Tag Issue Date:		***Fee Due:***	$0.00
CAS Code:		***Regulated Status:***	Federal
OSFM First Noti Dt:	6/7/1986		

Tank Information

Tank No:	1	***Capacity:***	3000
Ul No:		***Petroleum Use:***	
Status:	Removed	***Product:***	Gasoline
Removed Date:	9/17/1988	***CERCLA Substance:***	
Install Date:		***Current Age:***	24
Abandoned Date:		***Abandoned Material:***	
Last Used Date:		***Product Date:***	
Red Tag Issue Date:		***Fee Due:***	$0.00
CAS Code:		***Regulated Status:***	Federal
OSFM First Noti Dt:	6/7/1986		

Tank Information

Tank No:	6	**Capacity:**	500
UI No:		**Petroleum Use:**	
Status:	Abandoned in place	**Product:**	Used Oil
Removed Date:		**CERCLA Substance:**	
Install Date:		**Current Age:**	14
Abandoned Date:	9/20/2001	**Abandoned Material:**	Inert material mixed with portland cement
Last Used Date:		**Product Date:**	
Red Tag Issue Date:		**Fee Due:**	$0.00
CAS Code:		**Regulated Status:**	Federal
OSFM First Noti Dt:	10/22/1990		

Tank Information

Tank No:	2	**Capacity:**	2000
UI No:		**Petroleum Use:**	
Status:	Removed	**Product:**	Gasoline
Removed Date:	9/17/1988	**CERCLA Substance:**	
Install Date:		**Current Age:**	24
Abandoned Date:		**Abandoned Material:**	
Last Used Date:		**Product Date:**	
Red Tag Issue Date:		**Fee Due:**	$0.00
CAS Code:		**Regulated Status:**	Federal
OSFM First Noti Dt:	6/7/1986		

Owner Summary

Owner No:	U0007083	**Owner Status:**	Current Owner
Owner Name:	Hubbard Woods Motors	**Purchase Date:**	
Ownership History:	https://webapps.sfm.illinois.gov/ustsearch/Ownership.aspx?ID=2022233		

Owner Details

Owner Name:	Hubbard Woods Motors	**Type Financial Resp:**	
Owner Status:	Current Owner	**Fin Resp Rpt Due:**	
Purchase Date:			
Owner Address:	985 Green Bay Rd Winnetka, IL 60093		

IEMA No

Permit No:	01317-2015REM	**Inspection Date:**	12/10/2015
IEMA No:	15-1274	**Inspection Type:**	Removal Log
IEMA Link:	https://public.iema.state.il.us/FOIAHazmatSearch/HazmatDetails.aspx		

Facility Details

MFD Forms Status:		**Green Tag Decal:**	
MFD Permit Issue Dt:		**Green Tag Issue Date:**	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

MFD Permit Exp Dt: **Green Tag Exp Date:**
Property Parcel: **Motor Fuel Type:**
Pending Nov: No
Status: Closed
Permit History Link: https://webapps.sfm.illinois.gov/USTPortal/Permit/FacilityPermitList/2022233

Motorfuel Dispensing Permit

Status: No Forms Found
Letter:
MFD Received Date:
MFD Name:
MFD City:

6	2 of 7	WSW	0.23 / 1,230.12	661.21 / 6	HUBBARD WOODS MOTORS INC 985 GREEN BAY RD WINNETKA IL 60093	FINDS/FRS

Registry ID: 110005840849
FIPS Code: 17031
HUC Code: 07120003
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-00
Update Date: 26-JAN-12
Interest Types: STATE MASTER, UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 10
Census Block Code: 170318003001002
EPA Region Code: 05
County Name: COOK
US/Mexico Border Ind:
Latitude: 42.11849
Longitude: -87.74512
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110005840849
Program Acronyms:

ACES:170000232139, RCRAINFO:ILD082554858

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	3 of 7	WSW	0.23 / 1,230.12	661.21 / 6	Robert Berger 985 Greenbay Rd Winnetka IL	SPILLS

Incident No: H-2015-1274
Date/Time Occurred: 12/10/2015 9:46:07 AM
Media Release: Ground
Facility Manager: Robert Berger
Fac Manager Phone: 847/345-1891
Responsible Party Street: 985 Greenbay Rd
Area Involved: Fixed Facility
Milepost: N/A
Section: N/A
Township: N/A
Range: N/A
County: Cook
Latitude: 42.118512
Longutude: -87.745145

Hazardous Materials Incident Report

Incident Report Dt: 12/10/2015 9:46:07 AM
Data Input Status: Closed
LUST?: Yes
Hazmat Incident Type: Leak or spill
Caller: Robert Berger
Caller Represents: ---Calling on his own behalf---
Street Address: 985 Greenbay Rd
City: Winnetka
URL: https://public.iema.state.il.us/FOIAHazmatSearch/HazmatDetails.aspx?RptNum=H-2015-1274
Narrative:
County: Cook
Entered by: Kattner, Paul (IEMA)
Date Entered:

Follow Up Information:

Weather Information

Temp: 50 Degrees
Wind: SSW 15 MPH

Materials Involved

Name: Heating oil & water
Type: Liquid
CHRIS CODE: Unknown
CAS No: Unknown
UN/NA No: Unknown
Container Type: Under ground storage tank
Container Size: 1000 gallons
Amount Released: Unknown

Rate of Release Min:	Unknown
Duration of Release:	Unknown
Cause of Release:	Tank failure due to corrosion
Est Spill Extent:	Unknown
Spill Extent Units:	
Date/Time Inc Occur:	
Unknown Occurr:	Yes
Date/Time Discov:	2015-12-10 09:30
Unknown Discovered:	
Where Taken:	N/A
On Scene Contact:	Robert Berger
No of People Evacuat:	0
A 302(a) Extremely Haz Sub?:	Unknown
A RCRA Hazardous Waste?:	Unknown
A RCRA Regulated Facility?:	Unknown
Proper Safety Precautions:	None
State Agency Assistance:	None
Containment/Cleanup Plans:	Chicago Tank Removal will be removing the tank and remediating the soil.

Emergency Units Contacted

Contacted ESDA?:	
ESDA on Scene?:	
Spec ESDA Agency:	None
Contacted Fire Dep?:	
Fire Dep on Scene?:	
Name of Fire Dep:	None
Police Dep Contact?:	
Police Dep on Scene:	
Name of Police Dep:	None
Sheriff Police Dep?:	
Sheriff Dep on Scene:	
Name of Sheriff Dep:	None
Other Agency?:	
Agency on Scene?:	
Name of Agency:	None

Agency or Persons Notified

Agency:	IEPA, OSFM, NRTP, & IEMA Region #4
Date/Time:	2015-12-10 09:50
Name of Person:	E-mailed
Notification Action:	Report Sent

6	***4 of 7***	***WSW***	***0.23 / 1,230.12***	***661.21 / 6***	***Berger, Robert 985 Greenbay Road Winnetka IL 60093***	***LUST***

Incident No:	20151274	***LPC No:***	0313335006
Incidents ID:	27764	***IEMA Date:***	12/10/2015

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

NFR Date:	01/21/2016	**Regulation:**	734
Gasoline:	False	**C 20 Day Report Date:**	12/24/2015
Unleaded:	False	**C 45 Day Report Date:**	12/24/2015
Diesel:	False	**NFR Recorded Date:**	01/28/2016
Fuel Oil:	False	**Pre 74 Date:**	
Jet Fuel:	False	**Proj Manager Phone:**	
Used Oil:	False	**Proj Mngr First Nm:**	Matt
Non Petroleum Prod:	False	**Proj Mngr Last Nm:**	Urish
Other Petroleum:	True	**Proj Manager Email:**	
Non LUST Date:		**Site County:**	Cook
Non LUST Letter Dt:			
Heating Oil Letter Date:			
Free Product Discovery Date:			

Primary Resp Party Name:	Berger, Robert (dba Hubbard Woods Motors, Inc.)
Primary Resp Party Address:	985 Greenbay Road
Primary Resp Party City:	Winnetka
Primary Resp Party State:	IL
Primary Resp Party ZIP:	60093
Primary Resp Party Phone:	8474460711
Primary Resp Party Contact:	Robert Berger

6	***5 of 7***	***WSW***	***0.23 / 1,230.12***	***661.21 / 6***	***Hubbard Woods Motors Inc - 170000232139 985 Green Bay Rd Winnetka IL 60093***	***LUST DOCUMENT***

Site ID (Map):		**Orig Bureau (Web):**	Bureau of Land
System ID (Map):		**City (Web):**	Winnetka
Program ID (Web):	0313335006	**State (Web):**	IL
Interest Type (Map):		**Zip (Web):**	60093
Media Code (Map):		**City (Map):**	
Category (Web):	Leaking UST Technical	**State (Map):**	
Doc Indicator (Map):		**Zip (Map):**	
Doc Count (Web):	8	**Latitude (Map):**	
Total Pages (Web):	101	**Longitude (Map):**	
Rev Dt Time (Map):		**X (Map):**	
Collection Date (Map):		**Y (Map):**	

Name (Web):	Hubbard Woods Motors Inc - 170000232139
Address (Web):	985 Green Bay Rd
Name (Map):	
Address (Map):	
Category URL (Web):	https://docuware67.illinois.gov/DocuWare/PlatformRO/WebClient/3/Integration?lc=VXNlcj1kd3B1YmxpY1xuUHdkPU4xbWRhJHRyYXRvclBANTU1&p=RLV&rl=ce728c9a-11c1-4ddf-9003-314169ab1943&tw=Results&q=W0lFUEFJRF09IjE3MDAwMDIzMjEzOSIgQU5EIFtDQVRFR09SWV09IjIxQSI1
Data Source:	IEPA Document Explorer - Facility/Site Search (Web) (as of 17 Mar 2025)
Note:	Documents related to facilities in Illinois can be searched on the Illinois Environmental Protection Agency (IEPA) Document Explorer: https://external.epa.illinois.gov/DocumentExplorer

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6	***6 of 7***	***WSW***	***0.23 / 1,230.12***	***661.21 / 6***	***Hubbard Woods Motors Inc 985 Green Bay Rd Winnetka IL 60093***	***IEPA DOCS***

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Note: Documents related to facilities in Illinois can be searched on the Illinois Environmental Protection Agency (IEPA) Document Explorer: https://external.epa.illinois.gov/DocumentExplorer

IEPA Source Water Assessment Program (SWAP) & Mapping Tool

Name: Hubbard Woods Motors Inc
Location Addr 3: 985 Green Bay Rd
City Name: Winnetka
State Code: IL
Postal Code: 60093

Details

Indicator: Yes
Site ID: 170000232139
System ID: 0313335006
Collection Dt: 12/31/2015
Revision Dt Time: 06/30/2003
Interest Type: BOL
Media Code: LAND
Latitude Measure: 42.118527
Longitude Measure: -87.744772
Point X: -87.74477199999995
Point Y: 42.11852700000003

6	7 of 7	WSW	0.23 / 1,230.12	661.21 / 6	HUBBARD WOODS MOTORS INC 985 GREEN BAY RD WINNETKA IL 60093	RCRA NON GEN

Handler ID: ILD082554858
Generator Status: N
Recycler Activity?: NO
Recycler Activity Note: This facility has not been identified as a Recycler Facility from both the RCRA Handler and Biennial Report Modules.

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated Jan, 2025.

Evaluation Details

Eval Start Date: 20060110
Eval Type Desc: FOCUSED COMPLIANCE INSPECTION
Viol Short Desc:
Actual Rtc Date:
Eval Agency: State

Handler Summary

Importer: No
Mixed Waste Gen: No
Transporter: No
Used Oil Transpor: No
Used Oil Trans Fac: No
Used Oil Processor: No

Transfer Facility:	No	**Used Oil Refiner:**	No
Recycler:	No	**Used Oil Burner:**	No
Onsite Burner Exem:	No	**Commercial TSD:**	No
Furnace Exemption:	No	**Recycl Nonstorage:**	No
Underground Injec:	No		
Used Oil Market Burner:	No		
Used Oil Spec Marketer:	No		

Additional Handler Summary Details

Source Type:	I	**NAIC 1:**	
Seq No:	1	**NAIC 2:**	
Non Notifier:		**NAIC 3:**	
Receive Date:	20191213	**NAIC 4:**	
Active Site:	-----	**State:**	IL
Land Type:		**Location Latitude:**	
In Handler Univ:	N	**Location Longitude:**	
In A Universe:	N	**Loc GIS Primary:**	N
Gen Status:	N	**Loc GIS Origin:**	
Report Cycle:		**State District Owner:**	
Accessibility:		**State District:**	DESPLAINES
Region:	05		

Fed Waste Gen Owner:	HQ
State Waste Generator Owner:	IL
State Waste Generator:	N
Short Term Generator:	N
Uni Waste:	N
Universal Waste Dest Facility:	N
Federal Universal Waste:	N
As Federally Regulated Tsdf:	------
As Converter Tsdf:	------
As State Regulated Tsdf:	------
As State Regulated Handler:	---
Federal Indicator:	---
Hsm:	N
Subpart K:	----
GPRA Permit:	N
GPRA Renewal:	N
Permit Renewal Wrkld:	------
Permwrk ID:	------
Perm Prog:	------
Pcwrkld:	------
Closwrkld:	------
GPRA Ca:	N
Cawrkld:	N
Subjca Tsd Discretion:	N
NCAPS:	N
EC Indicator:	N
Ca725 Indicator:	N
Ca750 Indicator:	N

Operating Tsdf:	------
Full Enforcement:	------
Snc:	N
Unaddressed Snc:	N
Addressed Snc:	N
Snc With Comp Sched:	N
Fa Required:	-----
Hhandler Last Change:	20191213
Recognized Trader Importer:	N
Recognized Trader Exporter:	N
Slab Importer:	N
Slab Exporter:	N
Manifest Broker:	N
Subpart P:	N
Contact Language:	
Handler Name:	HUBBARD WOODS MOTORS INC
Location Street No:	
Location Street1:	985 GREEN BAY RD
Location Street2:	
Location City:	WINNETKA
Location State:	IL
Location Zip:	60093
Location County Code:	IL031
Location County Name:	COOK
Location Country:	US
Contact Name:	
Contact Street No:	
Contact Street1:	
Contact Street2:	
Contact City:	
Contact State:	
Contact Zip:	
Contact Country:	
Contact Phone And Ext:	
Contact Fax:	
Contact Email Address:	
Contact Title:	
Owner Name:	
Owner Type:	
Owner Seq:	
Operator Name:	
Operator Type:	
Operator Seq:	
Public Notes:	

Hazardous Waste Handler Details

Seq No:	1
Receive Date:	19881230
Handler Name:	HUBBARD WOODS MOTORS INC

Fed Waste Generator: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Waste Code: D001
Waste Code Desc: IGNITABLE WASTE

Waste Code: F003
Waste Code Desc: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Code Desc: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Handler Details

Seq No: 1
Receive Date: 20191213
Handler Name: HUBBARD WOODS MOTORS INC
Fed Waste Generator: N
Generator Code Description: Not a Generator, Verified
Source Type: Implementer

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Private
Name: HUBBARD WOODS MOTORS
Dt Became Current:
Dt Ended Current:
Phone: 312-555-1212
Source Type: Notification
Street No:
Street1: ADDRESS NOT REPORTED
Street2:
City: CITY NOT REPORTED
State: AK
Country:
Zip: 99998

Owner/Operator Ind: Current Operator
Type: Private
Name: NAME NOT REPORTED
Dt Became Current:
Dt Ended Current:
Phone: 312-555-1212
Street No:
Street1: ADDRESS NOT REPORTED
Street2:
City: CITY NOT REPORTED
State: AK
Country:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Source Type: Notification **Zip:** 99998

Historical Handler Details

Receive Dt: 19881230
Generator Code Description: Small Quantity Generator
Handler Name: HUBBARD WOODS MOTORS INC

7	1 of 1	W	0.25 / 1,310.26	664.69 / 9	Glencoe, Village of 45 Green Bay Rd Glencoe IL 60022	IEPA DOCS

Note: Documents related to facilities in Illinois can be searched on the Illinois Environmental Protection Agency (IEPA) Document Explorer: https://external.epa.illinois.gov/DocumentExplorer

IEPA Source Water Assessment Program (SWAP) & Mapping Tool

Name: Glencoe, Village of
Location Addr 3: 45 Green Bay Rd
City Name: Glencoe
State Code: IL
Postal Code: 60022

Details

Indicator: No
Site ID: 170000454933
System ID: 0310995031
Collection Dt: 12/30/2003
Revision Dt Time: 05/26/2011
Interest Type: BOL
Media Code: LAND
Latitude Measure: 42.12031
Longitude Measure: -87.74602
Point X: -87.74601999999999
Point Y: 42.120310000000075

Unplottable Summary

Total: 7 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
ERNS		TOWER ROAD BEACH	WINNETKA IL		806764651
FINDS/FRS	EDWARDSON, JOHN & BIROV, LEO-LAKE MICHIGAN	301 & 319 SHERIDAN RD	WINNETKA IL	60093	825816154
FINDS/FRS	WINNETKA PARK DIST-LLOYD PARK DREDGING	799 SHERIDAN RD-LLOYD PARK	WINNETKA IL	60093	817581433
LUST	Winnetka, Village of	Tower & Sheridan Roads Intersection	Winnetka IL	60093	918327516
SPILL OER	COMMONWEALTH EDISON	SHERIDAN ROAD N OF BEACH AVE	GLENCOE IL		825137483
SPILL OER	UNKNOWN	SCOTT AVE., EAST OF GREENBAY RD.	GLENCOE IL		822439312
SPILLS	UNKNOWN	TOWER COURT	WINNETKA IL		822044899

Unplottable Report

Site:

TOWER ROAD BEACH WINNETKA IL

ERNS

NRC Report No:	183370	***Latitude Degrees:***	
Type of Incident:	UNKNOWN SHEEN	***Latitude Minutes:***	
Incident Cause:	UNKNOWN	***Latitude Seconds:***	
Incident Date:	29-Jun-1993 08:30:00	***Longitude Degrees:***	
Incident Location:		***Longitude Minutes:***	
Incident Dtg:	DISCOVERED	***Longitude Seconds:***	
Distance from City:		***Lat Quad:***	
Distance Units:		***Long Quad:***	
Direction from City:		***Location Section:***	
Location County:	COOK	***Location Township:***	
Potential Flag:		***Location Range:***	
Year:	Year 1993 Reports		

Description of Incident: UNKNOWN / UNKNOWN /WHITE HOCKEY PUCK SIZE TABLETS WASHED UP ON BEACHSUSEPECTED TO BE CHLORINE

Material Spill Information

Chris Code:	UNK	***Unit of Measure:***	UNKNOWN AMOUNT
CAS No:		***If Reached Water:***	YES
UN No:		***Amount in Water:***	0
Name of Material:	UNKNOWN MATERIAL/SUSPECTED CHLORINE TAB	***Unit Reach Water:***	UNKNOWN AMOUNT
Amount of Material:	0		

Calls Information

Date Time Received:	29-Jun-1993 10:17:27	***Responsible City:***	
Date Time Complete:	29-Jun-1993 10:27:03	***Responsible State:***	XX
Call Type:	INC	***Responsible Zip:***	
Resp Company:		***Source:***	UNAVAILABLE
Resp Org Type:	UNKNOWN		

Incident Information

Tank ID:		***Building ID:***	
Tank Regulated:	U	***Location Area ID:***	
Tank Regulated By:		***Location Block ID:***	
Capacity of Tank:		***OCSG No:***	
Capacity Tank Units:		***OCSP No:***	
Description of Tank:		***State Lease No:***	
Actual Amount:		***Pier Dock No:***	
Actual Amount Units:		***Berth Slip No:***	
Tank Above Ground:	ABOVE	***Brake Failure:***	N
NPDES:		***Airbag Deployed:***	
NPDES Compliance:	U	***Transport Contain:***	U
Init Contin Rel No:		***Location Subdiv:***	
Contin Rel Permit:		***Platform Rig Name:***	
Contin Release Type:		***Platform Letter:***	
Aircraft ID:		***Allision:***	N
Aircraft Runway No:		***Type of Structure:***	
Aircraft Spot No:		***Structure Name:***	
Aircraft Type:	UNKNOWN	***Structure Oper:***	Y
Aircraft Model:		***Transit Bus Flag:***	
Aircraft Fuel Cap:		***Date Time Norm Serv:***	
Aircraft Fuel Cap U:		***Serv Disrupt Time:***	

Aircraft Fuel on Brd:		***Serv Disrupt Units:***	
Aircraft Fuel OB U:		***CR Begin Date:***	
Aircraft Hanger:		***CR End Date:***	
Road Mile Marker:		***CR Change Date:***	
Power Gen Facility:	U	***FBI Contact:***	
Generating Capacity:		***FBI Contact Dt Tm:***	
Type of Fixed Obj:	UNKNOWN	***Passenger Handling:***	
Type of Fuel:		***Passenger Route:***	XXX
DOT Crossing No:		***Passenger Delay:***	XXX
DOT Regulated:	U	***Sub Part C Test Req:***	XXX
Pipeline Type:	UNKNOWN	***No of Conductor Tested:***	
Pipeline Abv Ground:	ABOVE	***No of Engineer Tested:***	
Pipeline Covered:	U	***No of Trainman Tested:***	
Exposed Underwater:	U	***No of Yard Foreman Tested:***	
Railroad Hotline:	No	***No of RCL Operator Tested:***	
Railroad Milepost:	UNKNOWN	***No of Brakeman Tested:***	
Grade Crossing:	N	***No of Train Dispat Tested:***	
Crossing Device Ty:		***No of Signalman Tested:***	
Ty Vehicle Involved:	UNKNOWN	***No of Other Emp Tested:***	
Device Operational:	Y	***No of Unknown Emp Tested:***	

Incident Details Information

Release Secured:	U	***State Agen Report No:***	
Release Rate:		***State Agen on Scene:***	
Release Rate Unit:		***State Agen Notified:***	
Release Rate Rate:		***Fed Agency Notified:***	
Est Duration of Rel:		***Oth Agency Notified:***	
Desc Remedial Act:	15 TABLETS RECOVERED BY STA WILMETTE / CALLER STATES THAT TABLETS SMELLSTRONGLY OF CHLORINE	***Body of Water:***	
Fire Involved:	N	***Tributary of:***	
Fire Extinguished:	U	***Near River Mile Make:***	
Any Evacuations:	N	***Near River Mile Mark:***	
No Evacuated:		***Offshore:***	Y
Who Evacuated:		***Weather Conditions:***	
Radius of Evac:		***Air Temperature:***	
Any Injuries:	U	***Wind Direction:***	
No. Injured:		***Wind Speed:***	
No. Hospitalized:		***Wind Speed Unit:***	
No. Fatalities:		***Water Supp Contam:***	U
Any Fatalities:	U	***Water Temperature:***	
Any Damages:	N	***Wave Condition:***	
Damage Amount:		***Current Speed:***	
Air Corridor Closed:	N	***Current Direction:***	
Air Corridor Desc:		***Current Speed Unit:***	
Air Closure Time:		***EMPL Fatality:***	
Waterway Closed:	N	***Pass Fatality:***	
Waterway Desc:		***Community Impact:***	N
Waterway Close Time:		***Passengers Transfer:***	UNK
Road Closed:	N	***Passenger Injuries:***	
Road Desc:		***Employee Injuries:***	
Road Closure Time:		***Occupant Fatality:***	
Road Closure Units:		***Sheen Size:***	
Closure Direction:		***Sheen Size Units:***	
Major Artery:	No	***Sheen Size Length:***	
Track Closed:	N	***Sheen Size Length U:***	
Track Desc:		***Sheen Size Width:***	
Track Closure Time:		***Sheen Size Width U:***	

Track Closure Units:
Track Close Dir:
Media Interest:
Medium Desc: WATER
Addl Medium Info: LAKE MICHIGAN

Sheen Color:
Dir of Sheen Travel:
Sheen Odor Desc:
Duration Unit:
Additional Info: CALLER STATES THAT THEY HAVE RECOVERED APPROX 15 HOCKEY PUCK SIZED TABWITH AT LEAST 15 MORE REMAINING UNDER WATER/TABLETS DO NOT FLOAT

Site: ***EDWARDSON, JOHN & BIROV, LEO-LAKE MICHIGAN***
301 & 319 SHERIDAN RD WINNETKA IL 60093

FINDS/FRS

Registry ID: 110063898652
FIPS Code: 17031
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 14-APR-15
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 05
County Name: COOK
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110063898652
Program Acronyms:

ACES:170001979287

Site: ***WINNETKA PARK DIST-LLOYD PARK DREDGING***
799 SHERIDAN RD-LLOYD PARK WINNETKA IL 60093

FINDS/FRS

Registry ID: 110055408919
FIPS Code: 17031
HUC Code: 04040002
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 29-JUL-13
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:

Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 10
Census Block Code: 170318004001001
EPA Region Code: 05
County Name: COOK
US/Mexico Border Ind:
Latitude: 42.11365
Longitude: -87.73198
Reference Point: ENTRANCE POINT OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 50
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110055408919
Program Acronyms:

ACES:170001979189

Site: ***Winnetka, Village of***
Tower & Sheridan Roads Intersection Winnetka IL 60093 LUST

Incident No:	20100958	***LPC No:***	0313335069
Incidents ID:	26148	***IEMA Date:***	08/30/2010
NFR Date:		***Regulation:***	734
Gasoline:	False	***C 20 Day Report Date:***	
Unleaded:	False	***C 45 Day Report Date:***	
Diesel:	True	***NFR Recorded Date:***	
Fuel Oil:	False	***Pre 74 Date:***	
Jet Fuel:	False	***Proj Manager Phone:***	
Used Oil:	False	***Proj Mngr First Nm:***	
Non Petroleum Prod:	False	***Proj Mngr Last Nm:***	
Other Petroleum:	False	***Proj Manager Email:***	
Non LUST Date:		***Site County:***	Cook
Non LUST Letter Dt:			
Heating Oil Letter Date:			
Free Product Discovery Date:			

Primary Resp Party Name: Village of Winnetka
Primary Resp Party Address: 1390 Willow Road
Primary Resp Party City: Winnetka
Primary Resp Party State: IL
Primary Resp Party ZIP: 60098
Primary Resp Party Phone: 8472163556
Primary Resp Party Contact: Brian Keys

Site: ***COMMONWEALTH EDISON***
SHERIDAN ROAD N OF BEACH AVE GLENCOE IL SPILL OER

Incident ID: NL830950

Spill Detail(s)

Incident LUST:		***Received Date:***	11/15/1983
Occured Date:			
PRP Name:	COMMONWEALTH EDISON		
Incident Street:	SHERIDAN ROAD N OF BEACH AVE		
Incident City:	GLENCOE		
Incident County:	COOK		
Action:			
Description of Action:			

Site: ***UNKNOWN***
SCOTT AVE., EAST OF GREENBAY RD. GLENCOE IL SPILL OER

Incident ID: NL860734

Spill Detail(s)

Incident LUST: ***Received Date:*** 6/26/1986
Occured Date:
PRP Name: UNKNOWN
Incident Street: SCOTT AVE., EAST OF GREENBAY RD.
Incident City: GLENCOE
Incident County: COOK
Action:
Description of Action:

Site: ***UNKNOWN***
TOWER COURT WINNETKA IL

SPILLS

Incident No: H 2005 1211 ***County:*** COOK
Date/Time Occurred: 8/25/2005 12:00:00 AM ***Latitude:***
Media Release: ***Longutude:***
Facility Manager:
Fac Manager Phone:
Responsible Party Street: 1390 WILLOW ROAD WINNETKA, IL. 60093
Area Involved: OTHER: PUBLIC THROUGHFARE
Milepost:
Section:
Township:
Range:

Hazardous Materials Incident Report

Incident Report Dt: 8/25/2005 12:00:00 AM ***County:*** COOK
Data Input Status: CLOSED ***Entered by:***
LUST?: ***Date Entered:***
Hazmat Incident Type: LEAK OR SPILL
Caller:
Caller Represents:
Street Address: TOWER COURT
City: WINNETKA
URL: https://public.iema.state.il.us/FOIAHazmatSearch/HazmatDetails.aspx?RptNum=H 2005 1211
Narrative:

FAXED AT 09:40 TO IEPA/OSFM/NRTP/REGION 4 **Note: Many records provided by the department have a truncated [Narrative] field.

Follow Up Information:

Weather Information

Temp:
Wind: UNK UNK

Materials Involved

Name: OTHER CONTAMINATED SOIL WITH UNKNOWN PETROLEUM PRODUCT
Type: SOLID
CHRIS CODE:
CAS No: UNK
UN/NA No: UNK
Container Type: N/A
Container Size: N/A
Amount Released: UNKNOWN
Rate of Release Min:
Duration of Release:
Cause of Release: 1390 WILLOW ROAD WINNETKA, IL. 60093
Est Spill Extent: 2 CUBIC YARDS
Spill Extent Units:

Date/Time Inc Occur:	
Unknown Occurr:	
Date/Time Discov:	08/25/2005 @ 10:00
Unknown Discovered:	
Where Taken:	
On Scene Contact:	N/A
No of People Evacuat:	NONE
A 302(a) Extremely Haz Sub?:	UNKNOWN
A RCRA Hazardous Waste?:	
A RCRA Regulated Facility?:	NO
Proper Safety Precautions:	NONE
State Agency Assistance:	NONE
Containment/Cleanup Plans:	UNKNOWN AT THIS TIME

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List: NPL

The U.S. Environmental Protection Agency (EPA)'s National Priorities List (NPL) includes the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program, based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. This data includes NPL sites represented as polygons, where available, that can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. As site investigation and remediation progress, OUs may be added, modified or refined. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Mar 8, 2025

National Priority List - Proposed: PROPOSED NPL

Sites proposed by the U.S. Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites represented as polygons, where available, can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Mar 8, 2025

Deleted NPL: DELETED NPL

Sites deleted from the U.S. Environmental Protection Agency (EPA)'s National Priorities List (NPL). The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites represented as polygons, where available, can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Mar 8, 2025

SEMS List 8R Active Site Inventory: SEMS

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the EPA's Facility Registry Service map tool.

Government Publication Date: Feb 26, 2025

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites: SEMS ARCHIVE

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Feb 26, 2025

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jan 6, 2025

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites that have indicated engagement in the treatment, storage, or disposal of hazardous waste which requires a RCRA hazardous waste permit.

Government Publication Date: Jan 6, 2025

RCRA Generator List: RCRA LQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Jan 6, 2025

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Jan 6, 2025

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jan 6, 2025

RCRA Non-Generators: RCRA NON GEN

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jan 6, 2025

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Jan 6, 2025

Federal Engineering Controls-ECs: FED ENG

List of Engineering controls (ECs) made availabe by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Mar 27, 2025

Federal Institutional Controls- ICs: FED INST

List of Institutional controls (ICs) made available by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Mar 27, 2025

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites: NPL IC

These boundaries of Institutional Control areas at sites on the U.S. Environmental Protection Agency's (EPA) National Priorities List (NPL), or as Proposed or Deleted, are sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). The EPA's NPL includes the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes.

Government Publication Date: Mar 8, 2025

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Apr 6, 2025

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Feb 19, 2025

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: Jan 9, 2024

Delisted Facility Response Plans: DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Jan 9, 2024

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

This list of petroleum refineries is sourced from the U.S. Energy Information Administration (EIA), Refinery Capacity Report. The listing includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year. The geographic area the report covers is the 50 States, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, Guam, and other U.S. possessions. Per the EIA, the facility location data represents the approximate location based on research of publicly available information from sources such as Federal agencies, company websites, and satellite images on public websites.

Government Publication Date: Oct 31, 2024

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

A list of petroleum product and crude oil rail terminals from the U.S. Energy Information Administration (EIA), as well as petroleum terminals sourced from Oak Ridge National Laboratory hosted by the Homeland Infrastructure Foundation-Level Database. Data includes operable bulk petroleum product terminals with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil with activity between 2017 and 2018. EIA petroleum product terminal data comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings.

Government Publication Date: Oct 31, 2024

LIEN on Property: SEMS LIEN

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Jan 29, 2025

Superfund Decision Documents: SUPERFUND ROD

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: Feb 26, 2025

State

State Response Action Program Database: SSU

The State Response Action Program database identifies the status of all sites under the responsibility of the Illinois EPA's State Sites Unit. The State Response Action Program database made available by Illinois Environmental Protection Agency. This database serves a purpose similar to that of the federal Superfund Enterprise Management System (SEMS), functioning as a state-level counterpart for tracking potential hazardous substance release sites.

Government Publication Date: Jan 16, 2025

Delisted State Response Action Program: DELISTED SSU

List of sites removed from the State Response Action Program database identifies the status of all sites under the responsibility of the Illinois EPA's State Sites Unit.

Government Publication Date: Jan 16, 2025

Solid Waste Landfills Subject to State Surcharge Database: SWF/LF

The Bureau of Land maintains a list of solid waste facilities and landfills throughout the state. This list made available by Illinois Environmental Protection Agency's Bureau of land.

Government Publication Date: Jun 24, 2024

Special Waste Site List: SWF/LF SPECIAL

The following landfills are those that as of January 1, 1990, accept non-hazardous special waste pursuant to the Illinois Environmental Protection Agency Non-Hazardous Special Waste Definition. List A includes landfills that may receive any non-hazardous waste. Non-Regional Pollutant Control Facilities are so noted. List B includes landfills designed to receive specific non-hazardous wastes. List B landfills are designated as a Regional Pollutant Control Facility by RPCF, or Non-regional Pollutant Control Facility by Non-RPCF.

Government Publication Date: Jan 1, 1990

Northeastern Illinois Planning Commission Historical Inventory of Solid Waste Disposal Sites in Northeastern Illinois: NIPC

Historical inventory of solid waste disposal sites in northeastern Illinois prepared by the Northeastern Illinois Planning Commission (NIPC).

Government Publication Date: Dec 1987

Clean Construction or Demolition Debris: CCDD

This is a list of CCDD Fill Operations with Approved Permits. Beginning July 1, 2008, no person can use CCDD as fill material in a current or former quarry, mine, or other excavation unless they have obtained a permit from the Illinois EPA.

Government Publication Date: Feb 27, 2025

Leaking Underground Storage Tanks (LUST): LUST

Leaking underground storage tanks (LUSTs) are a significant source of environmental contamination and may pose threats to human health and safety. The Illinois Office of the State Fire Marshal (OSFM) regulates the daily operation and maintenance of UST systems. When a release occurs, a tank owner, operator, or their designated representative, must notify the Illinois Emergency Management Agency (IEMA), which then notifies the Illinois Environmental Protection Agency (Illinois EPA). The Illinois EPA's LUST Section begins oversight of remedial activities only after the UST release has been reported to the IEMA.

Government Publication Date: Mar 20, 2025

Leaking UST Document: LUST DOCUMENT

A list of sites from the Illinois Environmental Protection Agency (IEPA) Document Explorer at which one or more of the documents is in the Leaking Underground Storage Tank (LUST) category. The IEPA Document Explorer provides online access to numerous Illinois EPA public records which are maintained in a digital format.

Government Publication Date: Mar 17, 2025

Delisted Leaking Underground Storage Tank Sites: DELISTED LUST

List of sites removed from the Leaking Underground Storage Tank Incident Tracking (LIT) database made available by the Illinois Environmental Protection Agency.

Government Publication Date: Mar 17, 2025

Underground Storage Tank Fund Payment Priority List: LUST TRUST

In case sufficient funds are not available in the Underground Storage Tank Fund, requests for payment are entered on the Payment Priority List by "queue date" order. As required by the Environmental Protection Act, the queue date is the date that a complete request for partial or final payment was received by the Agency. The queue date is "officially" confirmed at the end of the payment review process when a Final Decision Letter is sent to the site owner. The Underground Storage Tank Fund Priority list made available by Illinois Environmental Protection Agency.

Government Publication Date: Nov 01, 2016

Underground Storage Tank Database (UST): UST

This Underground Storage Tank (UST) database is maintained by the Division of Petroleum & Chemical Safety of the Office of the Illinois State Fire Marshal (OSFM). Agency Disclaimer: The data contains information derived from tank registration information supplied to the OSFM from outside sources. This information may not contain complete or current information on a specific tank.

Government Publication Date: Feb 25, 2025

Aboveground Storage Tanks (AST): AST

A list of aboveground storage tanks inspected by the Office of State Fire Marshal (OSFM).

Government Publication Date: Nov 1, 2024

Delisted Storage Tanks: DELISTED TANK

This database contains a list of closed storage tank sites that were removed from the illinois Department of Enivornmental Quality.

Government Publication Date: Feb 25, 2025

Sites with Engineering Controls: ENG

Sites in the Illinois Environmental Protection Agency (IEPA)'s Site Remedition Program (SRP) database with engineering controls in place.

Government Publication Date: Apr 17, 2025

Institutional Controls: INST

Sites in the Illinois Environmental Protection Agency (IEPA)'s Site Remedition Program (SRP) database with institutional controls in place.

Government Publication Date: Apr 17, 2025

Environmental Covenants Registry: AUL

According to the Illinois Environmental Protection Agency (Illinois EPA), the Illinois Uniform Environmental Covenants Act (UECA) (765 Illinois Compiled Statues (ILCS) 122 et seq.) creates an environmental covenant that is a specific recordable interest in real estate. It arises from an environmental response project that imposes activity and use limitations on a property. No environmental covenant is effective without the approval of the Illinois EPA, through the Director's signature. The UECA instrument recites the property use controls and remediation requirements imposed upon the property. Section 12(a) of the Illinois UECA requires the Illinois EPA to establish and maintain a registry that contains all environmental covenants and any amendment or termination of those covenants.

Government Publication Date: Apr 3, 2025

Illinois Site Remediation Program Database: SRP

The Site Remediation Program (SRP) database identifies the status of all voluntary remediation projects administered through the Pre-Notice Site Cleanup Program (1989 to 1995) and the Site Remediation Program (1996 to the present). The SRP database is made available by the Illinois Environmental Protection Agency (IEPA).

Government Publication Date: Apr 17, 2025

Document Explorer Remediation and Assessment Sites: REM ASSESS

A list of sites from the Illinois Environmental Protection Agency (IEPA) Document Explorer at which one or more documents available are associated with the Federal Facilities Unit, National Priorities List Unit, Site Assessment Unit, or Voluntary Site Remediation Unit. The IEPA Document Explorer provides online access to numerous Illinois EPA public records which are maintained in a digital format.

Government Publication Date: Mar 17, 2025

Brownfields Redevelopment Assessment Database: BROWNFIELDS

This listing of Brownfields Redevelopment Assessment sites is provided by the Illinois Environmental Protection Agency's (IL EPA) Bureau of Land. Brownfields are abandoned or under-utilized industrial and commercial properties with actual or perceived contamination and an active potential for redevelopment. The IL EPA Remedial Project Management Section (RPMS) manages the Brownfields loan programs and offers technical support to communities through the services of its Brownfields Representatives.

Government Publication Date: Jun 4, 2024

Municipal Brownfields Redevelopment Grant Program (MBRGP) project sites administered through OBA: BROWN MBRGP

The Office of Brownfields Assistance (OBA) database identifies the status of all Municipal Brownfields Redevelopment Grant Program (MBRGP) project sites administered through OBA. Office of Brownfields Assistance Database search made available by Illinois Environmental Protection Agency's Bureau of Land Data-Center.

Government Publication Date: Mar 31, 2013

Tribal

Leaking Underground Storage Tanks on Indian Lands: INDIAN LUST

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 5, which includes Illinois, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 16, 2017

Underground Storage Tanks (USTs) on Indian Lands: INDIAN UST

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 5, which includes Illinois, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Oct 16, 2017

Delisted Tribal Leaking Storage Tanks: DELISTED INDIAN LST

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Nov 18, 2024

Delisted Tribal Underground Storage Tanks: DELISTED INDIAN UST

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Nov 18, 2024

County

Chicago Storage Tanks: TANKS CHICAGO

This dataset contains Aboveground Storage Tank (AST) and Underground Storage Tank (UST) information from the City of Chicago Department of Public Health's (CDPH) Tank Asset Database. The Tank Asset Database contains tank information from CDPH AST and UST permit applications as well as UST records imported from the historic City of Chicago Department of Environment (DOE) database. This dataset also includes AST records from the historic DOE and pre-1992 UST records from the Building Department.

Government Publication Date: Aug 21, 2024

Additional Environmental Record Sources

Federal

PFAS Greenhouse Gas Emissions Data: PFAS GHG

The U.S. Environmental Protection Agency's Greenhouse Gas Reporting Program (GHGRP) collects Greenhouse Gas (GHG) data from large emitting facilities (25,000 metric tons of carbon dioxide equivalent (CO2e) per year), and suppliers of fossil fuels and industrial gases that results in GHG emissions when used. Includes GHG emissions data for facilities that emit or have emitted since 2010 chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. PFAS emissions data has been identified for facilities engaged in the following industrial processes: Aluminum Production (GHGRP Subpart F), HCFC-22 Production and HFC-23 Destruction (Subpart O), Electronics Manufacturing (Subpart I), Fluorinated Gas Production (Subpart L), Magnesium Production (Subpart T), Electrical Transmission and Distribution Equipment Use (Subpart DD), and Manufacture of Electric Transmission and Distribution Equipment (Subpart SS). Over time, other industrial processes with required GHGRP reporting may include PFAS emissions data and the list of reportable gases may change over time. Note that some regulatory programs have specified chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard.

Government Publication Date: May 9, 2025

On-Scene Coordinator Response Sites: OSC RESPONSE

This list of On-Scene Coordinator (OSC) Response Sites is provided by the U.S. Environmental Protection Agency (EPA). OSCs are the federal officials responsible for monitoring or directing responses to all oil spills and hazardous substance releases reported to the federal government. OSCs coordinate all federal efforts with, and provide support and information to local, state, and regional response communities. An OSC is an agent of either EPA or the U.S. Coast Guard (USCG), depending on where the incident occurs. EPA's OSCs have primary responsibility for spills and releases to inland areas and waters. USCG OSCs have responsibility for coastal waters and the Great Lakes. In general, an OSC has the following key responsibilities during and after a response: Assessment, Monitoring, Response Assistance, and Evaluation.

Government Publication Date: Apr 4, 2024

Facility Registry Service/Facility Index: FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Apr 23, 2025

Toxics Release Inventory (TRI) Program: TRIS

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment. This database includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.

Government Publication Date: Sep 20, 2023

Hazardous Materials Information Reporting System: HMIRS

The Hazardous Materials Incident Reporting System (HMIRS) database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

Government Publication Date: May 29, 2024

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Nov 30, 2023

Toxic Substances Control Act: TSCA

The U.S. Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule. The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI). EPA CDR collections occur approximately every four years and reporting requirements change per collection.

Government Publication Date: May 12, 2022

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Nov 20, 2024

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: Apr 13, 2024

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. This EPA source file tracks facilities that possess NAICS and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Jan 6, 2025

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Jan 6, 2025

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset which applies to the Fiscal Year 2021 FUDS Inventory.

Government Publication Date: May 15, 2023

FUDS Munitions Response Sites: FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: May 15, 2023

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

This list of flagged pipeline incidents is made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types. Accidents reported on hazardous liquid gravity lines (§195.13) and reporting-regulated-only hazardous liquid gathering lines (§195.15) and incidents reported on Type R gas gathering (§192.8(c)) are not included in the flagged incident file data.

Government Publication Date: May 6, 2024

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Feb 5, 2024

Surface Mining Control and Reclamation Act Sites: SMCRA

This inventory of land and water impacted by past mining (primarily legacy coal mining operations) is maintained by the U.S. Department of the Interior's Office of Surface Mining Reclamation and Enforcement (OSMRE), as it provides information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) Problems, as well as information on the cost associated with the reclamation of those problems. The data is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed. Disclaimer: Per the OSMRE, States and tribes who enter their data into e-AMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: May 20, 2024

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

DOE Legacy Management Sites: LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Tile II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Dec 12, 2023

Alternative Fueling Stations: ALT FUELS

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: May 12, 2025

Superfunds Consent Decrees: CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Cases filed since 2010 limited to the following: Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS); and applicable ENRD's Environmental Defense Section (EDS) CERCLA Cases with "Consent" in History Note. CMS may not reflect the latest developments in a case, nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Jun 26, 2024

Air Facility System: AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments: SSTS

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Feb 29, 2024

Polychlorinated Biphenyl (PCB) Transformers: PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: May 23, 2024

Power Plants: POWER PLANTS

This list of power plants is provided by the U.S. Energy Information Administration (EIA). The listing includes operable electric generating plants in the United States by energy source, originating from the EIA-860, Annual Electric Generator Report; EIA-860M, Monthly Update to the Annual Electric Generator Report; and EIA-923, Power Plant Operations Report. It includes all operable plants by energy source with a combined nameplate capacity of 1 megawatt or more that are operating, are on standby, or out of service for short- or long-term.

Government Publication Date: Apr 15, 2024

Historical Business Activity Risk: HIST RISK

Proprietary list of sites identified as potentially having engaged in business activity that poses a higher-than-normal risk of contamination. Records originate from historical city directories, and are included in this list based on broad business categories Potentially Hazardous Chemical Users and Fuel and Automotive, including but not limited to Dry Cleaners and Fuel Stations, Garages, etc. Inclusion in this listing does not indicate that there is or ever has been contamination; rather, sites are included in this list due to their potential for having engaged in a business activity presenting an elevated risk of contamination. The list was compiled from various city directories including Polks, Millers, Mullin Kille, Interstate Directory, and State Directory Co; spanning roughly 1920s through 1960 depending on information available by city.

Government Publication Date: Jan 1, 1960

State

Spills and Incidents: SPILLS

This listing of hazardous materials spill/incident reports is sourced from the Illinois Emergency Management Agency (IEMA)

Government Publication Date: Dec 10, 2024

Emergency Response Releases & Spills Database: SPILL OER

The Illinois Environmental Protection Agency's (IEPA) Office of Emergency Response (OER) maintains this Emergency Response Releases & Spills Database. The Emergency Operations Unit (EOU), within OER, coordinates IEPA's response to environmental emergencies involving oil or hazardous materials and ensures that any environmental contamination is cleaned up. EOU works with other response agencies including the Illinois Emergency Management Agency (IEMA), which is the initial contact for responses to an emergency or disaster in Illinois.

Government Publication Date: Jan 2, 2025

Dry Cleaning Facilities: DRYCLEANERS

This list of licensed drycleaner facilities is provided by the Drycleaner Environmental Response Trust Fund of Illinois; and since July 1, 2020, is administrated by Illinois Environmental Protection Agency (IEPA).

Government Publication Date: Feb 6, 2025

Delisted Drycleaners: DELISTED DRYCLEANERS

List of sites removed from the drycleaners database made available by the Drycleaner Environmental Response Trust Fund of Illinois.

Government Publication Date: Feb 6, 2025

IEPA Document Explorer: IEPA DOCS

A list of permits and documents found in the Illinois Environmental Protection Agency (IEPA) Document Explorer. The IEPA Document Explorer provides online access to numerous Illinois EPA public records which are available in a digital format. This list includes records not otherwise categorized as LUST, Remediation, Air Permits, NPDES, or Compliance Commitment Agreements.

Government Publication Date: Mar 17, 2025

Clandestine Drug Labs: CDL

List of clandestine drug lab locations made available by the Illinois Department of Public Health. The Department maintains a list of properties from reports it receives from the Illinois State Police through the Illinois Emergency Management Agency.

Government Publication Date: Jan 4, 2023

Tier 2 Report: TIER 2

List of facilities who submit Tier II forms to the Illinois Emergency Management Agency (IEMA).

Government Publication Date: May 10, 2023

Air Permits: AIR PERMITS

A list of sites from the Illinois Environmental Protection Agency (IEPA) Document Explorer at which one or more of the documents is in the Air Permits (construction and operating) category. The IEPA Document Explorer provides online access to numerous Illinois EPA public records which are maintained in a digital format.

Government Publication Date: Mar 17, 2025

Underground Injection Control Wells: UIC

The Underground Injection Control (UIC) Program is a federal program established under the provision of the Safe Drinking Water Act of 1974. Since groundwater is a major source of drinking water in the United States, the UIC Program requirements were designed to prevent contamination of groundwater resulting from the operation of injection wells. The Underground Injection Well Inventory is provided by the Illinois Environmental Protection Agency. This inventory includes Class V Injections Wells which are utilized to inject non-hazardous waste into or above the Underground Source of Drinking Water.

Government Publication Date: Aug 1, 2019

Potentially Infectious Medical Waste Facilities: MEDICAL WASTE

Title 35 of the Illinois Administrative Code defines Potentially Infectious Medical Waste (PIMW) as waste generated in connection with the diagnosis, treatment (i.e., provision of medical services), or immunization of human beings or animals; research pertaining to the provision of medical services; or the provision or testing of biologicals. The Illinois Environmental Protection Agency's Bureau of Land is responsible for administering the PIMW program. The facilities included on this listing treat, store, transfer or dispose of PIMW.

Government Publication Date: Jun 6, 2023

Compost Facilities: COMPOST

The Illinois Environmental Protection Agency's Bureau of Land, Materials Management Unit maintains this list of composting facilities. Composting facilities provide an alternative option to managing and disposing of non-hazardous solid waste and/or landscape waste instead of the waste being landfilled. It is a natural form of recycling that turns some common kinds of household waste, like food and lawn wastes, into a dark organic material that can be used in a variety of beneficial ways.

Government Publication Date: Dec 1, 2023

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

ATTACHMENT 2

VILLAGE OF WINNETKA

PUBLIC BID OPENING

1/27/2026

Village of Winnetka Request for Bids #026-003

Ravines Sanitary Pumping Station and Force Main Rehabilitation

BIDDER	BASE BID	BID BOND	CHECK
Dimeo Bro's Inc.	$1,089,709.30	x	
Swallow Construction Corporation	$746,955.50	x	

VILLAGE OF WINNETKA
CONTRACT FOR THE
RAVINES SANITARY PUMPING STATION
AND FORCE MAIN REHABILITATION

BID PACKAGE

BIDDER'S PROPOSAL

Full Name of Bidder Swallow Construction Corporation ("Bidder")

Principal Office Address 490 Topsoil Drive, West Chicago, IL 60185

Local Office Address 490 Topsoil Drive, West Chicago, IL 60185

Contact Person Anthony Rendina Telephone (630) 512-9900

TO: Village of Winnetka ("Owner")
510 Green Bay Road
Winnetka, IL 60093
Attention: Village Clerk

Bidder warrants and represents that Bidder has carefully examined the Work Site described below and its environs and has reviewed and understood all documents included, referred to, or mentioned in this bound set of documents, including Addenda Nos. /, which are securely stapled to the end of this Bidder's Proposal [if none, write "NONE"] ("Bid Package").

Bidder acknowledges and agrees that all terms capitalized in this Bidder's Proposal shall have the meaning given to them in the documents included in the Bid Package.

1. Work Proposal

A. Contract and Work. If this Bidder's Proposal is accepted, Bidder proposes, and agrees, that Bidder will contract with Owner, in the form of the Contract included in the Bid Package: (1) to provide, perform and complete at the site or sites described in the Bid Package ("Work Site") and in the manner described and specified in the Bid Package all necessary work, labor, services, transportation, equipment, materials, apparatus, machinery, tools, fuels, gas, electric, water, waste disposal, information, data and other means and items necessary for the pavement milling and resurfacing, local base repair, with pavement excavation and reconstruction on noted streets, alleys, curb & gutter removal and replacement, sidewalk removal and replacement, driveway removal and replacement, removal and replacement of drainage structures, adjusting/replacing frames and grates/lids, rehabilitation and replacement of sanitary manholes, construction of new water main and replacement of water services (on noted street),

and related collateral work. Also included under this contract are various other public improvements, including, but not limited to: HMA and PCC Pavement Patching; and Pavement Marking, all at various locations within the Village. (2) to procure and furnish all permits, licenses and other governmental approvals and authorizations necessary in connection therewith except as otherwise expressly provided in Attachment A to the Contract included in the Bid Package; (3) to procure and furnish all Bonds and all certificates and policies of insurance specified in the Bid Package; (4) to pay all applicable federal, state and local taxes; (5) to do all other things required of Contractor by the Contract; and (6) to provide, perform and complete all of the foregoing in a proper and workmanlike manner and in full compliance with, and as required by or pursuant to, the Contract; all of which is herein referred to as the "Work."

B. Manner and Time of Performance. If this Bidder's Proposal is accepted, Bidder proposes, and agrees, that Bidder will perform the Work in the manner and time prescribed in the Bid Package and according to the requirements of Owner pursuant thereto.

C. General. If this Bidder's Proposal is accepted, Bidder proposes, and agrees, that Bidder will do all other things required of Bidder or Contractor, as the case may be, by the Bid Package.

2. Contract Price Proposal

Contract award will be made based on the Computed Total Base Bid plus any Alternatives selected. The price for all Base Bid items shall be included in the Computed Total Base Bid. Alternate Bids will be added to or deducted from the Computed Total Base Bid, if they are accepted, prior to Notice of Award being made.

Owner reserves the right to accept or reject any Alternatives to the Computed Total Base Bid. Should Owner wish to consider Alternatives listed, Bidder may be required to provide additional information.

The following prices per item shall be for furnishing and installing the various items of material and work as specified and shown on the drawings. Bidder agrees to perform the Work as shown on the Drawings and described in the Specifications for the following listed prices.

If a Bid Alternative is selected by Owner, the awarded Contract price will include the selected Alternative(s).

If this Bidder's Proposal is accepted, Bidder will, except as otherwise provided in Section 2.1 of the Contract, take in full payment for all Work and other matters set forth under Section 1 above, including overhead and profit; taxes, contributions, and premiums; and compensation to all subcontractors and suppliers, the compensation set forth on the following "Schedule of Prices" ("Price Proposal"), which Schedule of Prices Bidder understands and agrees will be made a part of the Contract:

SCHEDULE OF PRICES

☒ B. UNIT PRICE BASE BID

For providing, performing, and completing all Work, the sum of the products resulting from multiplying the number of acceptable units of Unit Price Items listed below incorporated in the Work by the Unit Price set forth below for such Unit Price Item:

	Unit Price Item	Unit	Approximate Number of Units	Price Per Unit	Extension
1	Rock Excavation	CY	10	$ 50.00	$ 500.00
2	Removal and Disposal of Unsuitable Material	CY	10	$ 44.00	$ 440.00
3	Removal and Disposal of Non-CCDD Material	TON	10	$ 115.00	$ 1,150.00
4	Foundation Material	CY	10	$ 75.25	$ 752.50
5	Trench Backfill	CY	171	$ 67.00	$ 11,457.00
6	Pavement Removal	SY	96	$ 10.00	$ 960.00
7	Combination Concrete Curb and Gutter	FT	24	$ 92.00	$ 2,208.00
8	Portland Cement Concrete Driveway	SY	20	$ 265.00	$ 5,300.00
9	Sidewalk Removal	SF	245	$ 1.00	$ 245.00
10	Portland Cement Concrete Sidewalk, 5-IN	SF	245	$ 22.00	$ 5,390.00
11	Hot-Mix Asphalt Path, 3-IN	SY	30	$ 123.00	$ 3,690.00
12	Class D Patches, 6-IN	SY	66	$ 203.00	$ 13,398.00
13	Class D Patches, 10-IN	SY	32	$ 220.00	$ 7,040.00
14	Restoration–Seeding Class 1	LS	1	$ 7,000.00	$ 7,000.00
15	Restoration–Sod	LS	1	$ 15,000.00	$ 15,000.00
16	Hardwood Mulch, 3-IN	SY	10	$ 35.00	$ 350.00
17	Silt Sock	FT	40	$ 22.50	$ 900.00
18	Perimeter Erosion Barrier	FT	67	$ 15.00	$ 1,005.00
19	Inlet Filters	EA	13	$ 225.00	$ 2,925.00
20	Tree Root Pruning	EA	12	$ 355.00	$ 4,260.00
21	Tree Trunk Protection	EA	12	$ 325.00	$ 3,900.00
22	Thermoplastic Pavement Marking–Line–4-IN	LF	80	$ 52.00	$ 4,160.00
23	Exploratory Excavation	EA	4	$ 1,000.00	$ 4,000.00
24	Force Main, 6-IN, Open Cut	LF	150	$ 180.00	$ 27,000.00
25	Force Main, 6-IN, Horizontal Directional Drilling	LF	1,395	$ 225.00	$ 313,875.00
26	Sanitary Manhole, Type A, Type 1 Frame, 4-FT-DIA	EA	2	$ 13,750.00	$ 27,500.00
27	Sanitary Manhole, Type A, Type 1 Frame, 5-FT-DIA	EA	1	$ 17,050.00	$ 17,050.00
28	Cut and Mechanically Cap Force Main	EA	2	$ 12,500.00	$ 25,000.00
29	Connections to Existing Sanitary Manhole	EA	1	$ 15,000.00	$ 15,000.00
30	Quick Connect, 60-IN	EA	1	$ 15,000.00	$ 15,000.00
31	Pumping Station Demolition–Complete	LS	1	$ 7,500.00	$ 7,500.00
32	Pumping Station Improvements–Complete	LS	1	$ 70,000.00	$ 70,000.00
33	Removable Steel Bollard	EA	4	$ 2,000.00	$ 8,000.00

	Unit Price Item	Unit	Approximate Number of Units	Price Per Unit	Extension
34	Tracer Wire Test Station	EA	5	$ 750.00	$ 3,750.00
35	Preconstruction Videotaping	LS	1	$ 5,750.00	$ 5,750.00
36	Cash Allowance for IDOT Individual Utility Permit Bond (Section 01 41 00–Regulatory Requirements)	LS	1	$ 10,000.00	$ 10,000.00
37	Record Drawings	LS	1	$ 2,500.00	$ 2,500.00
38	Construction Layout and Staking	LS	1	$ 9,500.00	$ 9,500.00
39	Traffic Control	LS	1	$ 83,500.00	$ 83,500.00
40	Traffic Control–Road Closure for Sanitary Manhole	EA	2	$ 5,000.00	$ 10,000.00

TOTAL BASE CONTRACT PRICE (*write in numbers only*):

$ 746,955.50

D. BASIS FOR DETERMINING PRICES

It is expressly understood and agreed that:

1. The approximate quantities set forth in this Schedule of Prices for each Unit Price Item are Owner's estimate only, that Owner reserves the right to increase or decrease such quantities, and that payment for each Unit Price Item shall be made only on the actual number of acceptable units of such Unit Price Item installed complete in place, measured on the basis defined in the Contract;
2. Owner is not subject to state or local sales, use and excise taxes and no such taxes are included in this Schedule of Prices;
3. All other applicable federal, state, and local taxes of every kind and nature applicable to the Work as well as all taxes, contributions, and premiums for unemployment insurance, old age or retirement benefits, pensions, annuities, or other similar benefits are included in this Schedule of Prices; and
4. All costs, royalties, and fees arising from the use on, or the incorporation into, the Work of patented equipment, materials, supplies, tools, appliances, devices, processes, or inventions are included in this Schedule of Prices.

All claim or right to dispute or complain of any such estimated quantity, or to assert that there was any misunderstanding in regard to the nature or amount of any Unit Price Item to be provided or performed, or to claim any additional compensation by reason of the payment of any such tax, contribution, or premium or any such cost, royalty or fee is hereby waived and released.

3. Contract Time Proposal

If this Bidder's Proposal is accepted, Bidder will commence the Work not later than the "Commencement Date" set forth in Attachment A to the Contract and will perform the Work diligently and continuously and will complete the Work not later than the "Completion Date" set forth in Attachment A to the Contract.

4. Firm Proposal

All prices and other terms stated in this Bidder's Proposal are firm and shall not be subject to withdrawal, escalation, or change for a period of 90 days after the date on which any Bidder's Proposal is opened or such extended acceptance date for Bidder's Proposals as may be established pursuant to Sections 10 and 13 of the General Instructions to Bidders.

5. Bidder Representations

A. No Collusion. Bidder warrants and represents that the only persons, firms, or corporations interested in this Bidder's Proposal as principals are those named in Bidder's Sworn Acknowledgment attached hereto and that this Bidder's Proposal is made without collusion with any other person, firm or corporation.

B. Not Barred. Bidder warrants, represents and certifies that it is not barred by law from contracting with Owner or with any unit of state or local government.

C. Qualified. Bidder warrants and represents that it has met and will meet all required standards set forth in Owner's Responsible Bidder Ordinance M-66-11 and that Bidder has the requisite experience, ability, capital, facilities, plant, organization and staff to enable Bidder to perform the Work successfully and promptly and to commence and complete the Work within the Contract Price and Contract Time Proposals set forth above. In support thereof, Bidder submits the attached Sworn Work History Statement. In the event Bidder is preliminarily deemed to be one of the most favorable to the interests of Owner, Bidder hereby agrees to furnish on request, within two business days or such longer period as may be set forth in the request, such additional information as may be necessary to satisfy Owner that Bidder is adequately prepared to fulfill the Contract.

D. Owner's Reliance. Bidder acknowledges that Owner is relying on all warranties, representations and statements made by Bidder in this Bidder's Proposal.

6. Surety and Insurance

Bidder herewith tenders surety and insurance commitment letters as specified in Section 6 of the Invitation for Bidder's Proposals.

7. Bid Security

Bidder herewith tenders a Cashier's Check, Certified Check, or Bid Bond as specified in Section 6 of the Invitation for Bidder's Proposals for 10 percent of Bidder's Price Proposal ("*Bid Security*").

8. Owner's Remedies

Bidder acknowledges and agrees that should Bidder fail to timely submit all additional information that is requested of it; or should Bidder, if Owner awards Bidder the Contract, fail to timely submit all the Bonds and all the certificates and policies of insurance required of it; or should Bidder, if Owner awards Bidder the Contract, fail to timely execute the Contract, Contractor's Certification and all other required documentation related to the Contract, it will be difficult and impracticable to ascertain and determine the amount of damage that Owner will sustain by reason of any such failure and, for such reason, Owner shall have the right, at its option in the event of any such default by Bidder, to retain or recover as reasonably estimated liquidated damages, and not as a penalty, the entire amount of the Bid Security or five percent of Bidder's Price Proposal, whichever is greater, or to exercise any and all equitable remedies it may have against Bidder.

9. Owner's Rights

Bidder acknowledges and agrees that Owner reserves the right to reject any and all Bidder's Proposals, reserves the right to accept or reject any item of any Bidder's Proposal and reserves such other rights as are set forth in Section 13 of the General Instructions to Bidders.

10. Bidder's Obligations

In submitting this Bidder's Proposal, Bidder understands and agrees that it shall be bound by each and every term, condition or provision contained in the Bid Package, which are by this reference incorporated herein and made a part hereof.

DATED: January 27, 2026.

Bidder [redacted]

By: _____

Title: President

Attest [redacted]

By: _____

Title: Vice-President

SEE GENERAL INSTRUCTIONS TO BIDDERS, SECTION 7, FOR SIGNATURE REQUIREMENTS

VILLAGE OF WINNETKA
CONTRACT FOR THE
RAVINES SANITARY PUMPING STATION
AND FORCE MAIN REHABILITATION

BID PACKAGE

BIDDER'S SWORN ACKNOWLEDGEMENT

Anthony Rendina ("*Deponent*"), being first duly sworn on oath, deposes and states that the undersigned Bidder is organized as indicated below and that all statements herein made are made on behalf of such Bidder in support of its Bidder's Proposal for the above Contract and that Deponent is authorized to make them.

Deponent also deposes and states that Bidder has carefully prepared, reviewed and checked its Bidder's Proposal and that the statements contained in its Bidder's Proposal and in this Acknowledgement are true and correct.

COMPLETE APPLICABLE SECTION ONLY

1. Corporation

Bidder is a corporation that is organized and existing under the laws of the State of Illinois, that is qualified to do business in the State of Illinois, and that is operating under the legal name of Swallow Construction Corporation.

The officers of the corporation are as follows:

TITLE	NAME	ADDRESS
President	Anthony Rendina	25 Royal Vale Dr., Oak Brook, IL 60523
Vice President	Robert Gatto	7N015 Homeward Glen Dr., St. Charles, IL
Secretary	Anthony Rendina	25 Royal Vale Dr., Oak Brook, IL 60523
Treasurer	Anthony Rendina	25 Royal Vale Dr., Oak Brook, IL 60523

2. Partnership

Bidder is a partnership that is organized, existing and registered under the laws of the State of _____ pursuant to that certain Partnership Agreement dated as of _____, that is qualified to do business in the State of Illinois, and that is operating under the legal name of _____.

ACKNOWLEDGEMENT

The general partners of the partnership are as follows:

NAME	ADDRESS
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

3. Individual

Bidder is an individual as follows:

Full name: _____

Residence address: _____

Business address: _____

If operating under a trade or assumed name that name is: _____

4. Joint Venture

Bidder is a joint venture that is organized and existing under the laws of the State of _____ pursuant to that certain Joint Venture Agreement dated as of _____, that is qualified to do business in the State of Illinois, and that is operating under the legal name of _____.

The signatories to the aforesaid Joint Venture Agreement are as follows:

NAME (and ENTITY TYPE)	ADDRESS
_____(___)	_____
_____(___)	_____
_____(___)	_____

ACKNOWLEDGEMENT

[For each signatory, indicate type of entity (Corporation = "C"; Partnership = "P"; and Individual = "I") and provide, on separate sheets, the information required in Paragraph 1, 2, or 3 above, as applicable]

DATED: January 27, 2026.

Bidder [redacted] Attest [redacted]

By: [redacted] By: [redacted]

Title: President Title: Vice-President

Subscribed and Sworn to before me on January 27, 2026.

[redacted]

Notary Public

My commission expires: October 4, 2028

SEE GENERAL INSTRUCTIONS TO BIDDERS, SECTION 7, FOR SIGNATURE REQUIREMENTS

VILLAGE OF WINNETKA
CONTRACT FOR THE
RAVINES SANITARY PUMPING STATION
AND FORCE MAIN REHABILITATION

BID PACKAGE

BIDDER'S SWORN WORK HISTORY STATEMENT

Anthony Rendina ("Deponent"), being first duly sworn on oath, deposes and states that all statements made in this Sworn Work History Statement are made on behalf of the undersigned Bidder in support of its Bidder's Proposal for the above Contract and that Deponent is authorized to make them.

Deponent also deposes and states that Bidder has carefully prepared, reviewed and checked this Sworn Work History Statement and that the statements contained in this Sworn Work History Statement are true and correct.

IF NECESSARY FOR FULL DISCLOSURE, ADD SEPARATE SHEETS

JOINT VENTURES MUST SUBMIT SEPARATE SWORN WORK HISTORY STATEMENTS FOR THE JOINT VENTURE AND FOR EACH SIGNATORY TO THE JOINT VENTURE AGREEMENT

1. **Nature of Business**

State the nature of Bidder's business: Underground sewer and water construction

2. **Composition of Work**

During the past three years, Bidder's work has consisted of:

0 % Federal	100 % As Contractor	60 % Bidder's Forces
98 % Other Public	0 % As Subcontractor	20 % Subcontractors
2 % Private		20 % Materials

3. Years in Business

State the number of years that Bidder, under its current name and organization, has been continuously engaged in the aforesaid business: 46 years

4. Predecessor Organizations

If Bidder has been in business under its current name and organization for less than five years, list any predecessor organizations:

NAME	ADDRESS	YEARS

5. Business Licenses

List all business licenses currently held by Bidder:

ISSUING AGENCY	TYPE	NUMBER	EXPIRATION
State of Illinois	Business License		

6. Related Experience

List three projects most comparable to the Work completed by Bidder, or its predecessors, in the past five years:

	PROJECT ONE	PROJECT TWO	PROJECT THREE
Owner Name	City of Elmhurst	Arlington Heights	City of Batavia
Owner Address	209 N. York St.	33 S. Arlington Heights Rd.	100 N. Island Ave.
	Elmhurst, IL 60126	Arlington Heights, IL 60005	Batavia, IL 60510-1930
Reference	Reggie Jansen	Reggie Jansen	Andrea Podrasza
Telephone Number	(630) 400-6008		(630) 454-2757
Type of Work	Sanitary Sewer Improvements	Water Main Replacement	
	Force Main Replacements	Lead Service Replacement	Storm sewer, force main and lift station installation

WORK HISTORY STATEMENT

	PROJECT ONE	PROJECT TWO	PROJECT THREE
Contractor (If Bidder was) (Subcontractor)	See	Attached	
Amount of Contract			
Date Completed			

DATED: January 27, 2026.

Bidder [redacted]

By: [redacted]

Title: President

Attest [redacted]

By: [redacted]

Title: Vice-President

Subscribed and Sworn to before me on January 27, 2026.

[redacted]

Notary Public

My commission expires: October 4, 2028

OFFICIAL SEAL
SARAH A SCHATZ
Notary Public, State of Illinois
Commission No. 998018
My Commission Expires
October 04, 2028

SEE GENERAL INSTRUCTIONS TO BIDDERS, SECTION 7, FOR SIGNATURE REQUIREMENTS

Document A310™ – 2010

Conforms with The American Institute of Architects AIA Document 310

Bid Bond

CONTRACTOR:
(Name, legal status and address)

Swallow Construction Corporation
490 Topsoil Drive
West Chicago, IL 60185

SURETY:
(Name, legal status and principal place of business)

Atlantic Specialty Insurance Company
605 Highway 169 North, Suite 800
Plymouth, MN 55441
Mailing Address for Notices
1411 Opus Place, Suite 450
Downers Grove, IL 60515

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:
(Name, legal status and address)

Village of Winnetka
510 Green Bay Road
Winnetka, IL 60093

BOND AMOUNT: $ 10% Ten Percent of Amount Bid

PROJECT:
(Name, location or address, and Project number, if any)

Ravines Sanitary Pumping Station and Force Main Rehabilitation - RFB #026-003

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 27th day of January, 2026

[redacted]
(Witness)

[redacted]
(Witness) Alexa Costello

Swallow Construction Corporation
(Principal) *(Seal)*

By: [redacted]
(Title) Anthony Rendina President

Atlantic Specialty Insurance Company
(Surety) *(Seal)*

By: [redacted]
(Title) James Moore Attorney-in-Fact

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

S-0054/AS 8/10

State of Illinois

County of DuPage

SURETY ACKNOWLEDGEMENT (ATTORNEY-IN-FACT)

I, Sherry L Bacskai Notary Public of DuPage County, in the State of Illinois, do hereby certify that James Moore Attorney-in-Fact, of the Atlantic Specialty Insurance Company who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that he signed, sealed and delivered said instrument, for and on behalf of the Atlantic Specialty Insurance Company for the uses and purposes therein set forth.

Given under my hand and notarial seal at my office in the City of Downers Grove in said County, this 27th day of January, 2026.

OFFICIAL SEAL
SHERRY L BACSKAI
NOTARY PUBLIC, STATE OF ILLINOIS
Commission No. 977639
My Commission Expires September 08, 2027

[redacted]

Notary Public Sherry L Bacskai

My Commission expires: September 8, 2027

intact INSURANCE

Power of Attorney

Swallow Construction Corporation
Village of Winnetka

Surety Bond No: Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: James Moore, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By [redacted]
Sarah A. Kolar, Vice President and General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, Vice President and General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON D. NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2030

[redacted]
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 27th day of January, 2026.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

[redacted]
Kara L.B. Barrow, Secretary

This Power of Attorney expires
January 31, 2030

Please direct bond verifications to surety@intactinsurance.com

SWALLOW CONSTRUCTION CORP.
SEWER & WATER CONTRACTORS
Since 1978

REFERENCE LIST FOR PUBLIC PROJECTS

Village of Arlington Heights-Euclid Ave Water Main Replacement

- Contract Amount- $8,721,315.00
- Consultant-Baxter & Woodman-Reginald Jansen- rjansen@baxterwoodman.com Office: 630-400-6008

Village of Arlington Heights- Race/Chicago Stormwater Improvements

- Contract Amount- $1,803,597.50
- Consultant-Ciorba Group- Michael Kowalski, PE - mkowalski@ciorba.com Office: 773-775-4009

City of Batavia-Carriage Crest Drainage Improvements

- Contract Amount-$2,622,285.63
- City Engineer-Andrea Podrasza- apodraza@bataviail.gov Office: 630-454-2757
- Consultant-V3 Consulting- Mike Wallin- mwallin@v3co.com Office: 630-649-1866
- V3- Jim Bessler: jbessler@v3co.com Office: 630-740-4033

City of Elmhurst-2024 Sanitary Sewer Improvement and Force Main Replacements

- Contract Amount-$9,034,899.92
- City Manager(Assistant)- Kent Johnson PE- Kent.Johnson@elmhurst.org Office: 630-530-3024
- Consultant-Baxter and Woodman-Reginald Jansen- rjansen@baxterwoodman.com Office: 630-400-6008

490 Topsoil Dr
West Chicago, IL 60185
630.512.9900
630.512.9902

Village of Downers Grove- Project 1- 2024 Storm Dewer Replacement and Maintenance

- Contract Amount-$751,896.00

Village of Downers Grove- Project 2-2024 Washington Street Drainage Improvements

- Contract Amount-$803,244.75
- Village Engineer-Phil Hyma PE- phyma@downers.us Office: 630-434-5488

Village of Lisle-Main Street Sanitary Sewer Rehabilitation

- Contract Amount-$882,084.50
- Assistant Public Works Director-Adam Hall PE- ahall@villageoflisle.org Office: 630-271-4172
- Consultant- Baxter and Woodman- Reginald Jansen PE- rjansen@baxterwoodman.com Office: 630-400-6008

City of Rolling Meadows-Park Street Storm Sewer Improvements

- Contract Amount- $807,663.80
- City Project Coordinator- Joel Benton- bentonj@cityrm.org
- Consultant- WBK Engineering- Matt Colbert mcolbert@bodwegroup.com Office: 269-762-0955

City of Dekalb-Water Main Replacement

- Contract Amount- $175,000.00 (Original bid was $691,00.00 but it was over budget)
- City Engineer-Zachary Gill PE- Zachary.gill@cityofdekalb.com Office: 815-748-2331
- Utility Superintendent- Justin Netzer- justin.netzer@cityofdekalb.com Office: 815-748-8122

490 Topsoil Dr
West Chicago, IL 60185
630.512.9900
630.512.9902

SWALLOW CONSTRUCTION CORP.
SEWER & WATER CONTRACTORS
Since 1978

Downers Grove Sanitary District-Venard Road Force Main Replacements

- Contract Amount- $669,021.00
- Keith Shaffner, Sewer Construction Supervisor- kshaffner@dgsds.org office:630-353-3610

Village of Elk Grove-Lunt Avenue Water Main Replacement

- Contract Amount- $2,950,223.00
- Senior Village Engineer-Eric Schmidt PE- eschmidt@elkgrove.org Office: 847-734-8079
- Consultant- V3 Consulting- Sean Ludwig- sludwig@v3co.com Office: 630-768-2151

490 Topsoil Dr
West Chicago, IL 60185
630.512.9900
630.512.9902

ADDENDUM NO. 1

PROJECT MANUAL

VILLAGE OF WINNETKA
WINNETKA, ILLINOIS
RAVINES SANITARY PUMPING STATION AND FORCE MAIN REHABILITATION
RFB# 026-003

Bids will be received until January 27, 2026, at 10:00 am, local time.

This Addendum to the Project Manual is issued to modify, explain, or correct the original Project Manual and is hereby made part of the Contract Documents. Bidder shall securely staple into its Bidder's Proposal a copy of each Addendum issued.

A. DIVISION 00–BIDDING AND CONTRACTING REQUIREMENTS

1. SECTION BID PACKAGE, INVITATION FOR BIDDER'S PROPOSALS

a. Page 2, **Pre-Bid Meeting**

ADD the attached Pre-bid Meeting Agenda and Pre-bid Meeting Sign-In Sheet at the end of this section.

B. DRAWINGS

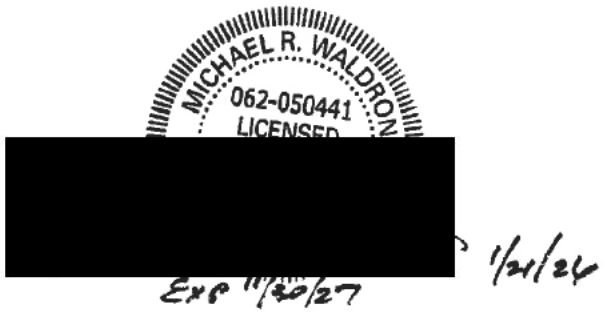
1. SHEET NO. 32–RAVINES PUMPING STATION SERVICE AREA

REPLACE Sheet No. 32 with the attached revised Sheet No. 32.

****

Dated at Joliet,
Illinois January 22,
2026

STRAND ASSOCIATES, INC.®
IDFPR No. 184-001273
1170 South Houbolt Road
Joliet, IL 60431



Village of
WINNETKA, IL

Agenda Item Executive Summary

TITLE: Resolution No. R-18-2026: Approving the Purchase of One Police Vehicle From Currie Motors Commercial Center (Adoption)

PRESENTER: Jeff Tyson

AGENDA DATE: February 17, 2026

CONSENT: Yes

ITEM TYPE: Consent Agenda

ITEM HISTORY:
The Police Department is equipped with a fleet of vehicles manufactured by General Motors and Ford Motor Companies. The vehicles purchased for patrol use are typically designed with special police package options to increase their suitability and reliability. The typical lifespan of these vehicles is 85,000 police duty miles.

EXECUTIVE SUMMARY:
The Police Department currently maintains a mixed fleet of patrol vehicles rather than just one type of vehicle. A mixed fleet enables more flexibility and safeguards against manufacturing disruptions and recalls. Over the last two years, the department has experienced challenges ordering and receiving vehicles from suppliers as part of our normal vehicle replacement process. Motor vehicle companies have expressed that they continue their own challenges with vehicle supply chains and procuring vehicles to fill orders they have already received.

The Police Department typically purchases police vehicles through the Suburban Purchasing Cooperative (SPC). Over the last few years, Currie Motors has been awarded the contract by the SPC Governing Board. Police staff have had ongoing conversations with Currie Motors regarding the 2026 production and purchasing options. Currie Motors advised they anticipated only a short production window for police rated Chevy Tahoes during the spring of 2026, and the Winnetka Police Department could reserve one vehicle within this production window.

Due to the limited window for reserving vehicles, the department is requesting approval to waive bidding requirements and authorize the purchase of this police vehicle for 2026. For this replacement, the department is seeking to purchase one 2026 4-wheel Drive Police Equipped Chevy Tahoe. 4-wheel drive ensures the vehicle is well suited for inclement weather. This vehicle will be replacing the current patrol supervisor vehicle, a 2022 Ford Expedition, with a little over 65,000 miles. The larger storage capacity of the Tahoe will be ideal for the large amount of auxiliary emergency equipment maintained in the supervisor vehicle.

After the Village receives this new vehicle, it will be outfitted with appropriate police equipment and communications systems, making it ready for patrol service. The build cost estimate ranges between $15,000 - $20,000 each and falls within the purchasing authority of the Village Manager. The current supervisor vehicle will remain in the department fleet and be outfitted with equipment to support the department's new updated drone, allowing for sustained deployment in support of the Fire Department during emergency rescue operations.

The written estimate provided by Currie Motors for the 2026 Chevrolet Tahoe is $59,264.42. The FY26 Capital Budget includes $70,000.00 for this planned purchase.

RECOMMENDATION:

Consider adopting Resolution No. R-18-2026: Approving the Purchase of One Police Vehicle from Currie Motors Commercial Center.

ATTACHMENTS:

1. Attachment 1: Resolution No. R-18-2026: Approving the Purchase of One Police Vehicle from Currie Motors Commercial Center
2. Attachment 2: Currie Motors 2026 Tahoe Quote

ATTACHMENT 1

RESOLUTIO NO. R-18-2026

A RESOLUTION APPROVING THE PURCHASE OF ONE POLICE VEHICLE FROM CURRIE MOTORS COMMERCIAL CENTER

WHEREAS, Article VII, Section 10 of the Constitution of the State of Illinois, and the Intergovernmental Cooperation Act, 5 ILCS 220/1 *et seq*., authorize and encourage intergovernmental cooperation; and

WHEREAS, the Village of Winnetka (***"Village"***) is a member of the Northwest Municipal Conference (***"NWMC"***), a corporate organization representing municipalities and townships located within the State of Illinois and Counties of Cook, DuPage, Kane, Lake, and McHenry; and

WHEREAS, the Village participates in the NWMC Suburban Purchasing Cooperative (***"SPC"***), which permits local governments to purchase commodities and services according to contracts negotiated by the NWMC, resulting in significant savings for the Village; and

WHEREAS, the Village Police Department has identified the need purchase one 2026 Chevrolet Tahoe (***"Vehicle"***); and

WHEREAS, the SPC sought bids for the award of a contract for the purchase of the Vehicle (***"Purchase Contract"***); and

WHEREAS, the SPC identified Currie Motors Commercial Center (***"Vendor"***), as the low responsible bidder for the Purchase Contract with a purchase price of $59,264.42; and

WHEREAS, the Village President and Board of Trustees have determined that it will serve and be in the best interest of the Village to purchase the Vehicle from Vendor, in the amount of $59,264.42, in accordance with the SPC and the Purchase Contract;

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Village of Winnetka, Cook County, Illinois, as follows:

SECTION 1. RECITALS. The Village Council adopts the foregoing recitals as its findings, as if fully set forth herein.

SECTION 2. APPROVAL OF PURCHASE. The Village Council hereby approves the purchase by the Village of the Vehicle from Vendor, in the total amount of $59,264.42, in accordance with the SPC and the Purchase Contract.

SECTION 3. EXECUTION OF REQUIRED DOCUMENTATION. The Village Council authorizes and directs the Village President, the Village Manager, and the Village Clerk to execute and attest, respectively, on behalf of the Village, all documents approved by the Village Manager and necessary to purchase the Vehicle from Vendor in accordance with Section 2 of this Resolution.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

ADOPTED this 17th day of February, 2026, pursuant to the following roll call vote:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

Signed

_____

Village President

Countersigned:

_____

Village Clerk

Currie Motors Commercial Center
815-464-9200

Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial

Note:Photo may not represent exact vehicle or selected equipment.

Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial

$57,206

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.
Data Version: 26150. Data Updated: Aug 5, 2025 6:51:00 PM PDT.

Currie Motors Commercial Center

Prepared By:

Currie Motors Commercial Center
815-464-9200

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Data Version: 26150. Data Updated: Aug 5, 2025 6:51:00 PM PDT.

Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial 58,206 ✔

Optional Equipment

NOTE	
CODE	**DESCRIPTION**
**	** FEATURE AVAILABILITY WILL CHANGE THROUGHOUT THE MODEL YEAR. SEE THE WINDOW LABEL OF A SPECIFIC VEHICLE TO DETERMINE ITS CONTENT **
**	** ORDERING INFORMATION IS 2026, OPTION & BASE PRICES TO FOLLOW **

SUSPENSION PKG	
CODE	**DESCRIPTION**
Z56	Suspension Package, heavy-duty, police-rated. Full independent suspension with monotube dampers, linear coil springs, 35mm solid front stabilizer bar and 32mm hollow rear stabilizer bar (Included and only available with (9C1) Police Vehicle.)
ZW7	Suspension, Premium Smooth Ride

EMISSIONS	
CODE	**DESCRIPTION**
FE9	Emissions, Federal requirements
NB8	Emissions override, California (allows a dealer in states that require California emissions - California, Colorado, Maryland, Massachusetts, New Jersey, New York, Oregon, Rhode Island, Vermont or Washington - to order Federal emissions for a vehicle that will be registered in a state that has Federal emission requirements). Do not use for vehicles that will be registered in California, Colorado, Maryland, Massachusetts, New Jersey, New York, Oregon, Rhode Island, Vermont or Washington (Requires (FE9) Federal emissions requirements. Not available in Maine or Vermont.)
NB9	Emissions override, state-specific (for dealers ordering vehicles in (YF5) or (NE1) emission states - California, Colorado, Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, Nevada, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington) (Allows a California dealer (YF5 emissions) to order (NE1) emissions with (NB9) emissions override code for registration in (NE1) states; or, a Colorado, Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, Nevada, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington dealer (NE1 emissions) to order (YF5) emissions with (NB9) emissions override code for registration in California.)
NC7	Emissions override, Federal (for vehicles ordered by dealers in Federal emission states with (YF5) or (NE1) emissions - Not required for vehicles being shipped to California, Colorado, Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, Nevada, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont or Washington) (Requires (YF5) California state emissions requirements or (NE1) Colorado, Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, Nevada, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont, or Washington state emissions requirements.)
NE1	Emissions, Colorado, Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, Nevada, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington state requirements
YF5	Emissions, California state requirements

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Data Version: 26150. Data Updated: Aug 5, 2025 6:51:00 PM PDT.

Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

ENGINE

CODE	DESCRIPTION
L84	Engine, 5.3L EcoTec3 V8 with Dynamic Fuel Management, Direct Injection and Variable Valve Timing, includes aluminum block construction (355 hp [265 kW] @ 5600 rpm, 383 lb-ft of torque [518 Nm] @ 4100 rpm) (STD)

TRANSMISSION

CODE	DESCRIPTION
MHS	Transmission, 10-speed automatic electronically controlled with overdrive, includes Traction Select System including tow/haul (STD)
MHU	Transmission, 10-speed automatic electronically controlled with overdrive, includes Traction Select System including tow/haul (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)

GVWR

CODE	DESCRIPTION
C6G	GVWR, 7600 lbs. (3447 kg) (4WD models only.) (STD)

AXLE

CODE	DESCRIPTION
GU5	Rear axle, 3.23 ratio

PREFERRED EQUIPMENT GROUP

CODE	DESCRIPTION
1FL	Commercial Preferred Equipment Group includes standard equipment

WHEEL TYPE

CODE	DESCRIPTION		
NZV	Wheels, 20" x 9" (50.8 cm x 22.9 cm) machined aluminum wit Charcoal pockets (Includes (XCI) 275/60R20SL all-season, blackwall tires unless (QAE) 275/60R20SL all-terrain, blackwall tires are ordered.)	1,001	☐
PXT	Wheels, 20" x 9" (50.8 cm x 22.9 cm) steel (Included and only available with (9C1) Police Vehicle.)		
RBR	Wheels, 22" x 9", Steel, Interim (Included and only available with any 22" LPO wheels.)		
RCV	Wheels, 18" x 8.5" (45.7 cm x 21.6 cm) Bright Silver painted aluminum (STD)		

TIRES

CODE	DESCRIPTION
QAE	Tires, 275/60R20SL all-terrain, blackwall (Available on 4WD only. Requires and only available with (NZV) 20" (50.8 cm) steel wheel without center cap.)

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Data Version: 26150. Data Updated: Aug 5, 2025 6:51:00 PM PDT.

Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

TIRES

CODE	DESCRIPTION		
QDF	Tires, 265/65R18SL all-season, blackwall (Standard with (RCV) 18" Bright Silver painted aluminum wheels only.) (STD)		
XCG	Tires, 275/50R22SL all-season, blackwall (Not available with (9C1) Police Vehicle or (5W4) Special Service Vehicle. Included and only available with any 22" RPO or LPO wheels.)		
XCI	Tires, 275/60R20SL all-season, blackwall (Included and only available with (NZV) 20" machined aluminum wheels with Charcoal pockets.)		☐
XCS	Tires, 275/55R20SL all-season, blackwall, Firestone Firehawk Pursuit (Included and only available with (9C1) Police Vehicle.)		

PAINT

CODE	DESCRIPTION		
G6M	Dark Ash Metallic		☐
GAZ	Summit White (Not available on Premier and High Country.)		☐
GBA	Black		✔
GNT	Radiant Red Tintcoat (Additional charge	450.45	☐
GXD	Sterling Gray Metallic		☐
GXP	Lakeshore Blue Metallic (Not available on RST or Z71 models.)		☐

SEAT TYPE

CODE	DESCRIPTION		
A50	Seats, front bucket (4WD only. Requires (9C1) Police Vehicle, (PQA) 1FL Safety Package and (UDA) OnStar deactivated. Includes (D07) floor console. Not available with SEO (5Y1) front center seat delete or SEO (5T5) front cloth and second row vinyl seats.)	318.50	☐
AZ3	Seats, front 40/20/40 split-bench (STD)		✔

SEAT TRIM

CODE	DESCRIPTION	
H0U	Jet Black, Premium cloth seat trim	☐
H1T	Jet Black, Cloth seat trim (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	✔

RADIO

CODE	DESCRIPTION
URW	Audio system, 17.7" diagonal advanced color LCD display with Google built-in compatibility (select service plan required, terms and limitations apply), including navigation capability, connected apps, personalized profiles for each driver's settings, Natural Voice Recognition and Phone Integration (STD)

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Data Version: 26150. Data Updated: Aug 5, 2025 6:51:00 PM PDT.

Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

ADDITIONAL EQUIPMENT - PACKAGE

CODE	DESCRIPTION		
5W4	Identifier for Special Service vehicle includes (K47) heavy-duty air filter, (KX4) 250 amp high output alternator, (K6K) 760 cold-cranking amps auxiliary battery, electrical power and vehicle signals for customer connection located at the center front floor, auxiliary battery circuit for customer connection located in the rear cargo area, (RC1) front skid plate, SEO (5J3) Surveillance Mode interior lighting calibration, SEO (UT7) blunt cut cargo area and blunt cut console area ground wires, (V53) delete luggage rack side rails, (ATD) third row seat delete and (NP0) active single-speed transfer case *Upon selection of this option the base price will change*		☐
9C1	Identifier for Police Package Vehicle includes, (K47) heavy-duty air filter, (KX4) 250 amp high output alternator, (K6K) 760 cold-cranking amps auxiliary battery, electrical power & vehicle signals for customer connection located at the center front floor. Auxiliary battery circuit for customer connection located in the rear cargo area, (Z56) heavy-duty, police-rated suspension, (XCS) 275/55R20SL all-season tires, (RAV) 275/55R20 all-season spare tire, Police brakes, (RC1) front skid plate, (PXT) 20" steel wheels, Certified speedometer, SEO (5J3) Surveillance Mode interior lighting calibration, SEO (UT7) blunt cut cargo area and blunt cut console area ground wires, (V53) delete luggage rack side rails and (ATD) third row seat delete) (Also includes (NP0) active single-speed transfer case.) *Upon selection of this option the base price will change*		☑
AMF	Remote Keyless Entry Package includes 4 additional transmitters, NOTE: programming of remotes is at customer's expense. Programming remotes is not a warranty expense (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
PQA	1FL Safety Package includes (UEU) Forward Collision Alert, (UKM) Enhanced Lane Keep Assist with Lane Departure Warning, (UKI) Blind Zone Steering Assist, (UHY) Automatic Emergency Braking, (UFB) Rear Cross Traffic Braking, (UKT) Front Pedestrian and Bicyclist Braking, (CTB) Intersection Automatic Emergency Braking, (UOW) Side Bicyclist Alert, (DRZ) Rear Camera Mirror and (TQ5) IntelliBeam headlamps (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	750.75	☑

ADDITIONAL EQUIPMENT - MECHANICAL

CODE	DESCRIPTION		
5J9	Calibration, taillamp flasher, Red/White (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
5LO	Calibration, taillamp flasher, Red/Red (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
6J3	Wiring, grille lamps and siren speakers (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	83.72	☑
6J4	Wiring, horn and siren circuit (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	68.25	☑
6J7	Flasher system, headlamp and taillamp, DRL compatible with control wire (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
___	Capless Fuel Fill (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		

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Data Version: 26150. Data Updated: Aug 5, 2025 6:51:00 PM PDT.

Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

ADDITIONAL EQUIPMENT - MECHANICAL

CODE	DESCRIPTION		
K05	Engine block heater (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	91.00	☑
K3W	Battery, 850 cold-cranking amps with 95 amp hour rating (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
K6K	Battery, auxiliary, 760 cold-cranking amps with 70 amp hour rating (packaged behind left rear cargo area panel) (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
KX4	Alternator, 250 amps (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
RC1	Skid plate, front (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
T66	Wiring provision, for outside mirrors and cargo side mirrors (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	INC	☑
UT7	Ground wires, blunt cut cargo area and blunt cut console area (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
V76	Recovery hooks, 2 front, frame-mounted, Black (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Required on all models going to Alaska, Guam, Hawaii, Puerto Rico and Virgin Islands. All Tahoe (9C1) and (5W4) vehicles include front fascia with recovery hook openings.)		
WX7	Wiring, auxiliary speaker. For upfitter connection to front door and windshield pillar speakers. (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	91.00	☑

ADDITIONAL EQUIPMENT - EXTERIOR

CODE	DESCRIPTION		
01U	Special Paint		
5T4	Special paint, Victory Red WA 9260 Victory Red painted parts will be front fascia, rear fascia, tailgate applique, liftgate handle and door handles. Black parts will be D-pillar applique, rear spoiler, mirrors, ultrasonic park assist sensors and OnStar antenna. (Requires SEO (TGK) special paint solid. Required with Victory Red special paint WA-9260.)	227.50	☐
6C7	Lighting, red and white front auxiliary dome Red and white LED auxiliary dome lamp is located on headliner between front row seats. The auxiliary lamp is wired independently from standard dome lamp (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	154.70	☑
6J8	White Left/White Right Whelen LED Lamp Package four ION light heads mounted in front grille and integrated Outer Edge Rear Pillar with six ION light heads. Original exterior D-pillar trim shipped loose for vehicle decommissioning. (Not available with SEO (6J9) Red Left/Red Right Whelen LED Lamp Package, SEO (6JE) Blue Left/Blue Right Whelen LED Lamp Package or SEO (6JG) Red Left/Blue Right Whelen LED Lamp Package. Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	1,774.50	☐

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Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

ADDITIONAL EQUIPMENT - EXTERIOR

CODE	DESCRIPTION		
6J9	Red Left/Red Right Whelen LED Lamp Package four ION light heads mounted in front grille and integrated Outer Edge Rear Pillar with six ION light heads. Original exterior D-pillar trim shipped loose for vehicle decommissioning. (Not available with SEO (6J8) White Left/White Right Whelen LED Lamp Package, SEO (6JE) Blue Left/Blue Right Whelen LED Lamp Package or SEO (6JG) Red Left/Blue Right Whelen LED Lamp Package. Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	1,774.50	☐
6JE	Blue Left/Blue Right Whelen LED Lamp Package four ION light heads mounted in front grille and integrated Outer Edge Rear Pillar with six ION light heads. Original exterior D-pillar trim shipped loose for vehicle decommissioning. (Not available with SEO (6J8) White Left/White Right Whelen LED Lamp Package, SEO (6J9) Red Left/Red Right Whelen LED Lamp Package or SEO (6JG) Red Left/Blue Right Whelen LED Lamp Package. Requires (9C1) Police Vehicle.)	1,774.50	☐
6JG	Red Left/Blue Right Whelen LED Lamp Package four ION light heads mounted in front grille and integrated Outer Edge Rear Pillar with six ION light heads. Original exterior D-pillar trim shipped loose for vehicle decommissioning (Not available with SEO (6J8) White Left/White Right Whelen LED Lamp Package, SEO (6J9) Red Left/Red Right Whelen LED Lamp Package or SEO (6JE) Blue Left/Blue Right Whelen LED Lamp Package. Requires (9C1) Police Vehicle.)	1,774.50	☐
7X2	Spotlamps, left- and right-hand (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Not available with SEO (7X3) left-hand spotlamp.)	1,219.40	☐
7X3	Spotlamp, left-hand (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Not available with SEO (7X2) left and right-hand spotlamps.)	728.00	✔
9V2	Special paint, MSP Blue WA 5665 MSP Blue painted parts will be high approach front fascia, rear fascia and tailgate applique. Black parts will be liftgate handle, door handles, D-pillar applique, rear spoiler, mirrors, ultrasonic park assist sensors and OnStar antenna. (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Also requires SEO (TGK) special paint solid. Required with MSP Blue special paint WA-5665.)	250.25	☐
9V5	Special paint, Woodland Green WA 9015. Black parts will be front fascia, rear fascia, tailgate applique, liftgate handle, door handles, D-pillar applique, rear spoiler mirrors, ultrasonic park assist sensors and OnStar antenna. (Requires SEO (TGK) special paint solid. Required with Woodland Green special paint WA-9015.)	409.50	☐
9V7	Special paint, Dark Blue Metallic WA 722J Dark Blue Metallic painted parts will be high approach front fascia, rear fascia and tailgate applique. Black parts will be liftgate handle, door handles, D-pillar applique, rear spoiler, mirrors, ultrasonic park assist sensors and OnStar antenna. (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Also requires SEO (TGK) special paint solid. Required with MSP Blue special paint WA-5665.)	227.50	☐
9W3	Special paint, Wheatland Yellow WA 253A. Black parts will be front fascia, rear fascia, tailgate applique, liftgate handle, door handles, D-pillar applique, rear spoiler mirrors, ultrasonic park assist sensors and OnStar antenna. (Requires (TGK) special paint solid. Required with Wheatland Yellow special paint WA-253A.)	409.50	☐

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Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

ADDITIONAL EQUIPMENT - EXTERIOR

CODE	DESCRIPTION		
9W5	Special paint, Silver Ice Metallic WA 636R Silver Ice Metallic painted parts will be high approach front fascia, rear fascia and tailgate applique. Black parts will be liftgate handle, door handles, D-pillar applique, rear spoiler, mirrors, ultrasonic park assist sensors and OnStar antenna (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Also requires SEO (TGK) special paint solid. Required with Silver Ice Metallic special paint WA-636R.)	227.50	☐
___	Exterior ornamentation delete (front & rear Chevrolet bowties will remain) (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
AKP	Glass, solar absorbing (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		☐
RAV	Tire, spare 275/55R20 all-season, blackwall, Firestone Firehawk Pursuit (Included and only available with (9C1) Police Vehicle.)		
RNQ	Wheel, full-size spare, matching 20" (50.8 cm) steel wheel without center cap (Included and only available with (9C1) Police Vehicle.)		
T53	Lamps, alternate flashing Red & Blue rear compartment lid warning (visible when liftgate is open) and controlled by momentary liftgate mounted switch or ground wire (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	514.15	☐
TGK	Special Paint, one color Required with any special paint selection. Refer to individual special paint SEO codes for details on body colored non-sheet metal parts. (Required with any SEO paint selection. May require extended lead time.)	409.50	☐
TQ5	IntelliBeam, automatic high beam on/off (When ordered with (9C1) Police Vehicle or (5W4) Special Service Vehicle, included and only available with (PQA) 1FL Safety Package.)		
V53	Luggage rack side rails, delete (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Package.)		
V54	Luggage rack side rails, roof-mounted, Black (Standard on Commercial models, except when (5W4) Special Service Vehicle is ordered where it then becomes available free flow. Not available with (9C1) Police Vehicle.)		
VK3	License plate front mounting package (Included on orders with ship-to states that require a front license plate.)		☑
WUA	Fascia, front high-approach angle (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		

ADDITIONAL EQUIPMENT - ENTERTAINMENT

CODE	DESCRIPTION	
UDA	OnStar deactivated (does not delete Bluetooth) (4WD only. Requires (PQA) 1FL Safety Package, (A50) front bucket seats, and (9C1) Police Vehicle.	☐

ADDITIONAL EQUIPMENT - INTERIOR

CODE	DESCRIPTION	
5J1	Calibration, keyless remote panic button and exterior lights/horn disable (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	☑

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Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

ADDITIONAL EQUIPMENT - INTERIOR

CODE	DESCRIPTION		
5J3	Calibration, Surveillance Mode interior lighting (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
5T5	Seats, front cloth and second row vinyl (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. On 4WD model, not available with (A50) front bucket seats.)		☑
5Y1	Front center seat (20% seat) delete power driver and passenger bucket seats in base cloth trim. Derived from RPO (AZ3) 40/20/40 split-bench seat with the 20% section removed, which also removes the auxiliary power outlet, USB port and input jack for audio system. Does not include a floor console. All exposed floor area will remain untrimmed. (On 4WD model, requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Not available with (A50) front bucket seats or (B30) color-keyed carpeting floor covering. (UBD) 2 type-A and C, charge and data USB ports and (KI4) 2, 120-volt power outlets are bundled and shipped loose when ordered for upfitter installation.)		☐
6E2	Fleet Calibration provides a single key with a specific code that is common to the door locks of all the vehicles in the vehicle fleet. Key code is an alternate to SEO (6E8) complete vehicle fleet common key. NOTE: NOT COMPATIBLE with previous model years (Requires (AMF) Remote Keyless Entry Package. Includes (AU7) fleet common key with (9C1) Police Vehicle or (5W4) Special Service Vehicle. Not available with SEO (6E8) Fleet Calibration.)	22.75	☐
6E8	Fleet Calibration provides a single key with a specific code that is common to the door locks of all the vehicles in the vehicle fleet. Key code is an alternate to SEO (6E2) complete vehicle fleet common key. NOTE: NOT COMPATIBLE with previous model years (Requires (AMF) Remote Keyless Entry Package. Includes (AU7) fleet common key with (9C1) Police Vehicle or (5W4) Special Service Vehicle. Not available with SEO (6E2) Fleet Calibration.)	22.75	☐
6N5	Switches, rear window inoperative (rear windows can only operate from driver's position.) (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	68.25	☐
6N6	Door locks and handles, inside rear doors inoperative (door can only be opened from outside) (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	56.42	☐
___	Instrumentation, analog with certified 140 mph speedometer, odometer with trip odometer, engine hour meter, fuel level, voltmeter, engine temperature, oil pressure and tachometer (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
___	Power supply, 100-amp, auxiliary battery, passenger compartment wiring harness (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
___	Power supply, 120-amp, (4) 30-amp circuit, Primary battery, relay controlled, passenger compartment harness wiring (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
___	Power supply, 50-amp, power supply, auxiliary battery, passenger compartment wiring harness (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
___	Theft-deterrent system, vehicle, PASS-Key III (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
ATD	Seat delete, third row passenger (Included and only available with (9C1) Police Package or (5W4) Special Service Package.)		

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Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

ADDITIONAL EQUIPMENT - INTERIOR

CODE	DESCRIPTION		
AU7	Key common, fleet (Included and only available with SEO (6E2) Fleet Calibration or SEO (6E8) Fleet Calibration and requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	45.50	☑
AX2	Key, unique Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		☑
B30	Floor covering, color-keyed carpeting in occupant area. Horizontal surface of cargo area covered in black vinyl.	177.45	☐
B58	Floor mats, color-keyed carpeted first and second row, removable (Requires and only available with (B30) color-keyed carpeting floor covering. Not available with any LPO floor mats or LPO floor liners.)	150.00	☐
BCN	Retail Locking Calibration allows functionality of lock/unlock of front passenger side door and liftgate (disabled in standard PPV/SSV). Also allows the second row interior power lock/unlock door switches to function normally. (4WD model requires (WX7) auxiliary speaker wiring and is not available with (A50) front bucket seats. Also requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		☐
BCV	Lock control, driver side auto door lock disable (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
BTV	Remote start (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
D07	Console, floor with storage area and removable storage tray (Requires (9C1) Police Vehicle and is included and only available with (A50) front bucket seats.)		
DRZ	Rear Camera Mirror, inside rearview auto-dimming with full camera display (Included with (PQA) 1FL Safety Package when ordered with (9C1) Police Package. When (PQA) 1FL Safety Package is not ordered, requires (UE1) OnStar and (AZ3) 40/20/40 split-bench seat.)		
K34	Cruise control, electronic with set and resume speed (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		
UBC	USB ports, 2 type-A and C, charge and data located inside center console (Requires (9C1) Police Vehicle. Included and only available with (A50) front bucket seats.)		
UN9	Radio Suppression Package, with ground straps (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	86.45	☐
UTQ	Theft-deterrent system content, disable, the alarm and horn become non-functional in an attempt of theft to the vehicle (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	45.50	☑
VZ2	Speedometer calibration (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)		

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Vehicle: [Fleet] 2026 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✔ Complete)

ADDITIONAL EQUIPMENT - SAFETY-MECHANICAL

CODE	DESCRIPTION
CTB	Intersection Automatic Emergency Braking intersection alert, braking (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Included and only available with (PQA) 1FL Safety Package.)
UHY	Automatic Emergency Braking (When ordered with (9C1) Police Vehicle or (5W4) Special Service Vehicle, included and only available with (PQA) 1FL Safety Package.)
UKT	Front Pedestrian and Bicyclist Braking (Included and only available with (PQA) 1FL Safety Package when ordered with (9C1) Police Vehicle.)

ADDITIONAL EQUIPMENT - SAFETY-INTERIOR

CODE	DESCRIPTION	
___	Active Hill Hold Assist (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	
___	Seat belts, 3-point, all seating positions (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	
R9L	Deleted OnStar Basics (OnStar Fleet Basics for Fleet) (Requires (UE1) OnStar. Included and only available on vehicles being shipped to Puerto Rico, the Virgin Islands, or Guam.	
R9V	Mobile Service Plus. MobileService+ is a suite of service conveniences for 3 years - Mobile Service, Pick-up & Delivery, and Loaner with Drop off. MobileService+ van will come to your home to perform select services or pick up your vehicle and return it once the service is completed at the dealership. Cost of part and labor are not included (Required and only available for dealers who have a BFU of 284, except for orders with (R9W) Deleted Mobile Service Plus. Requires TRE, SRE or Fleet order types. Not available with (R9Y) Mobile Service Plus for 1 year.)	545.09 ☐
R9Y	Mobile Service Plus. MobileService+ is a suite of service conveniences for 1 year - Mobile Service, Pick-up & Delivery, and Loaner with Drop off. MobileService+ van will come to your home to perform select services or pick up your vehicle and return it once the service is completed at the dealership. Cost of part and labor are not included. (Required and only available for dealers who have a BFU of 284, except for orders with (R9W) Deleted Mobile Service Plus. Requires TRE, SRE, FBC, FNR or Fleet order types. Not available with (R9V) Mobile Service Plus for 3 years.)	181.09 ☐
UD7	Rear Parking Assist (Included and only available with (9C1) Police Vehicle and (5W4) Special Service Vehicle.)	
UEU	Forward Collision Alert (When ordered with (9C1) Police Vehicle or (5W4) Special Service Vehicle, included and only available with (PQA) 1FL Safety Package.)	
UFB	Rear Cross Traffic Braking (Included and only available with (PQA) 1FL Safety Package when ordered with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	
UKI	Blind Zone Steering Assist (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Included and only available with (PQA) 1FL Safety Package.)	
UKM	Lane Keep Assist with Lane Departure Warning, enhanced (Included and only available with (PQA) 1FL Safety Package when ordered with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	

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Currie Motors
Nice People To Do Business With
CHEVROLET

Title Name: Winnetka Police Department

Title Address: 410 Green Bay Road

Title City: Winnetka

Title Zip Code: 60093

License Plate Desired: _____

Contact Name: _____

Phone Number: _____

PO Number: _____

FIN Code: _____

Tax Exempt Number: _____

Total Dollar Amount: $ 59,264.42

Delivery Address: _____

Additional Information / Notes:

Authorized Signature: _____

Date: _____

IMPORTANT ORDERING INFORMATION

Orders require a signed original Purchase Order and Tax-Exempt Letter.

Submit documents to:

Currie Motors Chevrolet

8401 Roosevelt Road

Forest Park, IL 60130

Main Phone: (815)464-9200

Contacts:

Tom Sullivan

Email: tsullivan@curriemotors.com

Phone: (815) 464-9200

Nic Cortellini

Email: ncortellini@curriemotors.com

Phone: (815) 464-9200

Note: Production is Allocation Based and is subject to cancellation.

Payment is due at the time of delivery.

Village of WINNETKA, IL

Agenda Item Executive Summary

TITLE: Resolution No. R-19-2026: Approving a Contract with House of Doors Inc. for Overhead Door Replacement Services Phase II (Adoption)

PRESENTER: Tom Powers

AGENDA DATE: February 17, 2026

CONSENT: Yes

ITEM TYPE: Consent Agenda

ITEM HISTORY:
As part of the Fiscal Year 2026 budget, $70,000 was budgeted for the second phase of the Yards Overhead Door Replacement project.

EXECUTIVE SUMMARY:
As part of its ongoing responsibilities, the Public Works Department maintains over 40 overhead doors at the Yards facility. These doors facilitate the storage of vehicles and materials in the various onsite garages. Most of these doors were installed in 2003 as part of the most recent renovation, but some also predate that project.

In 2025, the Department launched a project to complete the systematic replacement of the various doors due to their age and conditions. Staff prioritized the doors based on their repair history and overall condition and replaced four in that first year.

In December, staff prepared specifications for the next phase, which included a base bid for the replacement of four doors (two each in Buildings A and B) and optional bid for a smaller fifth door in Building A. On Monday, December 29th, a bid notice (RFB #026-001) was advertised in the Winnetka Talk and DemandStar. A non-mandatory walkthrough was held on Tuesday, January 20th with three attendees and one addendum was issued.

On Thursday, January 29th, the Village received three bids. A summary of bids can be found below:

Company	Base Scope	Optional Scope	Total Bid
House of Doors	$44,813.00	$7,250.00	$52,063.00
United Door & Dock	$72,820.00	$10,998.00	$83,818.00
Taza Construction	$99,750.00	$15,660.00	$115,410.00

House of Doors, LLC of Brookfield, Illinois ("House of Doors") submitted the lowest, most responsive proposal for each scope. House of Doors previously completed the first phase of the project and staff

found their work to be satisfactory.

Staff recommends award of the optional scope of work based on the proposals received. This will include replacement of a smaller door in Building A that predates the 2003 renovation.

The Fiscal Year 2026 Budget contains $70,000 in Facilities Fund Account No. 410.15.01-615 (Buildings and Structures) for this project. With the award of the optional scope, this project will be $17,937 under budget.

RECOMMENDATION:
Staff recommends awarding an agreement for the Yards Overhead Door Modernization Project Phase Two to House of Doors of Brookfield, Illinois.

ATTACHMENTS:
1. Resolution No. R-19-2026: Approving a Contract with House of Doors Inc. for Overhead Door Replacement Services Phase II

RESOLUTION NO. R-19-2026

A RESOLUTION APPROVING A CONTRACT WITH HOUSE OF DOORS INC. FOR OVERHEAD DOOR REPLACEMENT SERVICES PHASE II

WHEREAS, Article VII, Section 10 of the 1970 Illinois Constitution authorizes the Village of Winnetka (***"Village"***) to contract with individuals, associations, and corporations in any manner not prohibited by law or ordinance; and

WHEREAS, on December 29, 2025, the Village issued Bid #026-001 (***"Request for Bids"***) for Phase II of the overhead door replacement services needed at the Village Public Works facility located at 1390 Willow Road (***"Services"***), which Services include the replacement of four existing overhead doors, and any other associated services; and

WHEREAS, the Village received three bids (***"Bids")*** to provide the Services and opened the Bids on January 29, 2026; and

WHEREAS, pursuant to Chapter 4.12 of the Village Code and the Village's purchasing manual, the Village Council has determined that House of Doors Inc. (***"Contractor"***), is the lowest responsible bidder to provide the Services; and

WHEREAS, the Village Council desires to enter into a contract with Contractor for the procurement of the Services from Contractor in an amount not to exceed $52,063.00 (***"Contract"***); and

WHEREAS, the Village Council has determined that it is in the best interests of the Village and its residents to enter into the Contract with Contractor;

NOW, THEREFORE, BE IT RESOLVED, by the Council of the Village of Winnetka, Cook County, Illinois, as follows:

SECTION 1: RECITALS. The Village Council hereby adopts the foregoing recitals as its findings, as if fully set forth herein.

SECTION 2: APPROVAL OF CONTRACT. The Village Council hereby approves the Contract in substantially the form attached to this Resolution as **Exhibit A** and in a final form approved by the Village Attorney.

SECTION 3: AUTHORIZATION TO EXECUTE CONTRACT. The Village Council hereby authorizes and directs the Village President and the Village Clerk to execute and attest, respectively, on behalf of the Village, the final Contract after receipt by the Village Manager of two executed copies of the final Contract from Contractor; provided, however, that if the Village Manager does not receive two executed copies of the final Contract from Contractor within 60 days after the date of adoption of this Resolution, then this authority to execute and seal the final Contract will, at the option of the Village Council, be null and void.

SECTION 4: EFFECTIVE DATE. This Resolution shall be in full force and effect from and after its passage and approval according to law.

ADOPTED this 17th day of February, 2026, pursuant to the following roll call vote:

AYES: _____

NAYS: _____

ABSENT: _____

ABSTAIN: _____

Signed

_____

Village President

Countersigned:

_____

Village Clerk

EXHIBIT A

CONTRACT

Village of Winnetka, Illinois

510 Green Bay Road
Winnetka, IL 60093

Phone: (847) 501-6000 Fax: (847) 446-1139
General Email: dduckworth@winnetka.org

REQUEST FOR BIDS:	#026-001	**BID ISSUE DATE:** 12/29/2025
BID DESCRIPTION:	**OVERHEAD DOOR MODERNIZATION PHASE 2**	
BID OPENING DATE:	01/29/2026	**BID OPENING TIME:** 11:30 AM
SUBMIT 1 ORIGINAL BID PACKAGE PLUS 2 COPIES		

BID RESPONSES MUST BE RECEIVED AND TIME STAMPED NO LATER THAN THE PUBLIC BID OPENING DATE AND TIME (LOCAL TIME) SPECIFIED ABOVE. BIDS WILL BE OPENED AND READ ALOUD AT THAT TIME AT THE LOCATION INDICATED IN THE BID DOCUMENT. LATE BIDS WILL NOT BE CONSIDERED.

TO ALL PROSPECTIVE BIDDERS:

You are hereby requested to submit your bid for the item(s) or service(s) to be furnished and delivered, shipped F.O.B. delivered, to the address specified herein.

The original bid package and the required number of copies must be received in a sealed envelope that has your name and address in the upper left corner and the bid number and bid name on the lower left corner.

All bids are subject to staff analysis. The Village of Winnetka reserves the right to accept or reject any and all bids received and waive any and all technicalities.

Bids may be submitted electronically via email to bids@winnetka.org or delivered to the physical address. Bids must be delivered and time stamped prior to the public bid opening date and time to:	**VILLAGE OF WINNETKA** **Attn: FINANCE DEPARTMENT** **510 GREEN BAY ROAD** **WINNETKA, ILLINOIS 60093**

Any communication regarding this request between the date of issue and date of award is required to go through the Bid Coordinator or the Buyer listed below (or, in the Buyers absence, the Assistant Finance Director).

Unauthorized contact with other Village of Winnetka staff or officers is strictly forbidden.

BUYER:	Dell Duckworth	PHONE:	(847) 716-3560
EMAIL:	dduckworth@winnetka.org		

FULL NAME OF BIDDER	House of Doors Inc.
BID CONTACT PERSON	Robert Rucisnki
TELEPHONE NUMBER	708-485-5000 robr@houseofdoorsinc.co

INSTRUCTIONS TO BIDDERS

1. Preparation of Bids. All bids for the Products must be made only on the blank Contract/Bid form attached to this Request for Bids and must be complete with a price for each and every item named in the Schedule of Prices section of the Contract/Bid form. All bids must be signed by an authorized official. Bids that contain omissions, erasures, alterations or additions not called for, conditional or alternate bids (unless called for), or irregularities of any kind may be rejected.

2. Clarifications. Owner reserves the right to make clarifications, corrections, or changes in this Request for Bids at any time prior to the time bids are opened. All bidders or prospective bidders will be informed of said clarifications, corrections, or changes.

3. Delivery of Bids. One original and two copies of each bid must be submitted in a sealed envelope plainly marked with the Invitation Number and Bidder's full legal name and address. The envelope must be addressed and delivered to Owner's Finance Director, at the Bid Opening Location set forth above, on or before the Bid Opening Time on the Bid Opening Date set forth above. Bids may be delivered by mail or in person. Bids received after the Bid Opening Time will be returned unopened.

Bids may also be sent electronically to bids@winnetka.org as long as they are received before the Bid Opening Time. Any files sent electronically must be below the file size limit of 29MB. If multiple emails need to be sent to ensure file sizes remain below the size limit, the emails should be numbered. The bid number and bid name should be included in the subject line of your email.

4. Opening of Bids. Bids will be publicly opened and read at the time and place specified above. Bidders, their authorized agents and interested parties are invited to be present.

5. Withdrawal of Bids. No bid may be withdrawn for a period of 30 days after the opening of any bid.

6. Rejection of Bids. Bids that are not submitted on the Contract/Bid form or that are not prepared in accordance with these Instructions to Bidders may be rejected. If not rejected, Owner may demand correction of any deficiency and accept the deficiently prepared bid upon compliance with these Instructions to Bidders.

7. Acceptance of Bids. Bids submitted are offers only, and the decision to accept or reject is a function of quality, reliability, capability, reputation, and expertise of the bidders. Owner reserves the right to accept the bid that is, in its judgment, the best and most favorable to the interests of Owner and to the public; to reject the low price bid; to accept any item of any bid; to reject any and all bids; and to waive irregularities and informalities in any bid submitted or in the request for bid process, provided, however, the waiver of any prior defect or informality will not be considered a waiver of any future or similar defect or informality. Bidders should not rely upon or anticipate such waivers in submitting their bid. Upon acceptance of the successful bidder's bid by Owner, the successful bidder's bid, the Bid/Contract form, and Owner's notification of acceptance in the form attached to this Request for Bids will become the Contract for the Products.

DATED this 29th day of December, 2025

VILLAGE OF WINNETKA

By: **Dell Duckworth**
Deputy Chief Financial Officer

VILLAGE OF WINNETKA

CONTRACT/BID
FOR OVERHEAD DOOR MODERNZATION PHASE 2

Full Name of Bidder:

House of Doors Inc.
("*Bidder*")

Principal Office Address:
9038 W. Ogden Avenue
Brookfield IL 60513
708-485-5000

Local Office Address:
9038 W. Ogden Avenue
Brookfield IL 60513
708-485-5000

Contact Name: Robert Rucisnki Telephone: 708-485-5000

TO: Village of Winnetka
510 Green Bay Road
Winnetka, IL 60093
Attention: ***Deputy Chief Financial Officer***

Bidder warrants and represents that Bidder has reviewed and understood all documents included, referred to, or mentioned in this bound set of documents, including Addenda Nos. #1 *(if none, write "NONE") that are securely stapled to the end of this Contract/Bid.*

1. Proposal to Deliver Products.

A. Contract and Products. If this Contract/Bid is accepted, then Bidder proposes and agrees that Bidder will deliver to Owner, at the Delivery Address, the products, items, materials, merchandise, supplies, or other items identified in the Request for Bids attached hereto (the "*Products*") in new, undamaged, and first-quality condition. Bidder further proposes to:

(1) Labor, Equipment, Materials and Supplies Provide, perform, and complete in the manner specified and described in the Contract/Bid, all necessary work, labor, services, transportation, equipment, materials, supplies, information, data, and other means and items necessary to deliver the Products to Owner in a proper and workmanlike manner.

(2) Permits Procure and furnish all permits, licenses, and other governmental approvals and authorizations necessary for the Products.

(3) Bonds and Insurance Procure and furnish all bonds, insurance certificates, and polices of insurance, if any, specified in the Contract/Bid.

(4) Miscellaneous Perform all other things required of Bidder by this Contract/Bid.

B. Performance Standards. If this Contract/Bid is accepted, Bidder proposes and agrees that the Products will comply strictly with the ***Specifications attached hereto as Attachment A and by this reference made a part of this Contract/Bid***. If this Contract/Bid specifies a Product by brand name or model, that specification is intended to reflect the required performance standards and standard of excellence that Owner requires for the Product. However, Bidder may propose to deliver a Product that is a different brand or model, if Bidder provides with its bid written documentation establishing that the brand or model it proposes to deliver possesses equal quality, durability, functionality, capability, and features as the Product specified.

C. Responsibility for Damage or Loss. If this Contract/Bid is accepted, Bidder proposes and agrees that Bidder will be responsible and liable for, and will promptly and without charge to Owner, repair or replace damage done to and any loss or injury suffered by Owner as a result of Bidder's failure to perform hereunder.

D. Inspection/Testing/Rejection. Owner will have the right to inspect all or any part of the Products. If, in Owner's judgment, all or any part of the Products is defective or damaged or fails to conform strictly to the requirements of this Contract/Bid, then Owner, without limiting its other rights or remedies, may (i) reject such Products, (ii) require Bidder to correct or replace such Products at Bidder's cost, (iii) obtain new Products to replace the Products that are defective, damaged, or nonconforming and charge Bidder with any excess cost incurred thereby, and (iv) cancel all or any part of any order or this Contract/Bid. Products so rejected may be returned or held at Bidder's expense and risk.

2. Contract Price Proposal.

A. Price. If this Contract/Bid is accepted, Bidder proposes and agrees that Bidder will deliver the Products to Owner in accordance with the following Schedule of Prices:

Product Item No.	Description of Product to be delivered to Owner	Quantity of Products to be delivered to Owner	Unit Price of Product	Extension
		See pricing form in Attachment A.		

If Owner has specified the Quantity of Products to be delivered to Owner in the Request for Bids, then Bidder will take, in full payment for all Products and other matters set forth under Section 1 of this Contact/Bid, including overhead and profit, taxes, royalties, license fees, delivery, contributions and premiums, and compensation to all subcontractors and suppliers, the total Contract Price of:

See pricing form in Attachment A.

If Owner has not specified the Quantity of Products to be delivered to Owner in the Request for Bids, then Bidder will take, in full payment for all Products and other matters set forth under Section 1 of this Contact/Bid, including overhead and profit, taxes, royalties, license fees, delivery, contributions and premiums, and compensation to all subcontractors and suppliers, a total Contract Price that will be equal to the sum of the Unit Prices (as determined by the above Schedule of Prices) applicable to all Products accepted by Owner.

B. Basis for Determining Prices. It is expressly understood and agreed that:

(1) All prices stated in the Schedule of Prices are firm and will not be subject to escalation or change; Metals' escalation or de-escalation will **not** be utilized. All manufacturing costs shall be fixed at the bid price.

(2) Owner is not subject to State or local sales, use, and excise taxes, and no such taxes are included in the Schedule of Prices, and all claims or rights to claim any additional compensation by reason of the payment of any such tax are hereby waived and released;

(3) All other applicable federal, State, and local taxes of every kind and nature applicable to the Products are included in the Schedule of Prices; and

(4) If a Quantity of Products to be delivered to Owner is specified in the Request for Bids, such amount is an estimate only. Owner reserves the right to increase or decrease such quantity, and the total Contract Price to be paid will be based on the final quantity determined by Owner for each Product and the actual number of Products that comply with this Contract/Bid that are accepted by Owner. Bidder hereby waives and releases all claims or rights to dispute or complain of any such estimated quantity or to assert that there was any misunderstanding in regard to the number of Products to be delivered.

C. Time of Payment. It is expressly understood and agreed that all payments will be made in accordance with the following schedule:

Upon delivery and acceptance of item by the Owner.

All payments may be subject to deduction or setoff by reason of any failure of Bidder to perform under this Contract/Bid.

3. Contract Time Proposal.

If this Contract/Bid is accepted, Bidder proposes and agrees that Bidder will deliver the Products to Owner not later than March 31, 20 26.

4. Financial Assurance.

A. Indemnification. If this Contract/Bid is accepted, Bidder shall and hereby agrees to indemnify, defend and save harmless the Owner, its affiliates, its officers, directors, employees and agents from and against any and all claims, suits, actions, liabilities, damages, losses, costs and expenses by reason of injury or death to person(s) or damage to property to the extent caused by the negligent acts or omissions, violation of law or regulation, or willful misconduct of Bidder, its officers, agents and employees, in the performance of this order.

5. Firm Proposal.

All prices and other terms stated in this Contract/Bid are firm and will not be subject to withdrawal, escalation, or change so long as Owner accepts this Contract/Bid within 24 days after the date this sealed Contract/Bid is opened. **No** metals' escalation or de-escalation will be utilized. All manufacturing costs shall be fixed at the bid price.

6. Bidder's Representations and Warranties.

To induce Owner to accept this Contract/Bid, Bidder hereby represents and warrants as follows:

A. The Products. Bidder warrants to the Owner that the Goods will conform to the specifications, drawings and other descriptions supplied or adopted by the Owner. All warranties available from the manufacturer of the goods sold to Owner shall be passed through to Owner from Bidder. Bidder agrees to work diligently on behalf of Owner to ensure manufacturer of goods promptly fulfills their warranty obligation.

The manufacturer shall warrant that the Product will be of merchantable quality and, for a period of not less than one year after delivery (i) will be free from any latent or patent defects and flaws in workmanship, materials, and design, (ii) will strictly conform to the requirements of this Contract/Bid, and (iii) will be fit, sufficient, and suitable for the purposes expressed in or reasonably inferred from this Contract/Bid.

B. Compliance with Laws. All Products and all of their components will comply with, and Bidder agrees to be bound by, all applicable federal, state, and local laws, orders, rules, and regulations as they may be modified or amended from time to time. Every provision required by law to be inserted into this Contract/Bid will be deemed to be inserted herein.

C. Not Barred. Bidder is not barred by law from contracting with Owner or with any other unit of state or local government as a result of (i) a delinquency in the payment of any tax administered by the Illinois Department of Revenue unless Bidder is contesting, in accordance with the procedures established by the appropriate revenue act, its liability for the tax or the amount of the tax as set forth in 65 ILCS 5/11-42.1-1, (ii) a violation of either Section 33E-3 or Section 33E-4 of Article 33 of the Criminal Code of 1961, 720 ILCS 5/33E-1 *et seq.*, or (iii) for any other reason.

D. Qualified. Bidder has the requisite experience, ability, inventory, capital, facilities, equipment, plant, organization, and staff to enable Bidder to deliver the Products at the Contract Price and within the Contract Time Proposal set forth above.

7. Acknowledgments.

In submitting this Contract/Bid, Bidder acknowledges and agrees that:

A. Reliance. Owner is relying on all warranties, representations, and statements made by Bidder in this Contract/Bid.

B. Reservation of Rights. Owner reserves the right to reject any and all bids, reserves the right to reject the low price bid, and reserves such other rights as are set forth in the Instructions to Bidders.

C. Acceptance. If this Contract/Bid is accepted, then Bidder will be bound by each and every term, condition, or provision contained in this Contract/Bid and in Owner's written notification of acceptance in the form included in this bound set of documents.

D. Remedies. Each of the rights and remedies reserved to Owner in this Contract/Bid are cumulative and additional to any other or further remedies provided in law or equity or in this Contract/Bid.

E. Time; Days. Time is of the essence for this Contract/Bid. Except where specifically stated otherwise, references in this Contract/Bid to days will be construed to refer to calendar days.

F. No Waiver. No examination, inspection, investigation, test, measurement, review, determination, decision, certificate or approval by Owner, whether before or after Owner's acceptance of this Contract/Bid; nor any information or data supplied by Owner, whether before or after Owner's acceptance of this Contract/Bid; nor any order by Owner for the payment of money; nor any payment for or use, possession, or acceptance of the whole or any part of any Product; nor any extension of time granted by Owner; nor any delay by Owner in exercising any right under this Contract/Bid; nor any other act or omission of Owner will constitute or be deemed to be an acceptance of any defective, damaged, or nonconforming Product; nor operate to waive or otherwise diminish the effect of any representation or warranty made by Bidder or of any requirement or provision of this Contract/Bid or of any remedy, power, or right of Owner.

G. Assignment. Neither this Contract/Bid, nor any interest herein, may be assigned or subcontracted in whole or in part by Bidder except with the prior written consent of Owner.

H. Governing Law. This Contract/Bid and all rights of the parties under this Contract/Bid will interpreted according to the laws of, but not the conflict of law rules of, the State of Illinois.

DATED this 29 date of January 20 26

Bidder's Status: (X) IL (State) Corporation ( ) (State) Partnership ( ) Individual Proprietor

Bidder's Name: House of Doors Inc.

Doing Business As (if different): _____

Signature of Bidder or Authorized Agent: X [redacted]

(CORPORATE SEAL, IF APPLICABLE)

Printed Name: Phil Salb

Title/Position: President

Bidder's Business Address: 9038 W Ogden Avenue

Brookfield IL 60513

Bidder's Business Telephone: (708) 485-5000 Facsimile: (708) 485-5011

If a Corporation or Partnership, list all Officers or Partners:

Phil Salb	President	708-485-500

ATTACHMENT A: SPECIFICATIONS

1. Introduction:

The Village of Winnetka is accepting sealed bids from properly qualified firms to replace multiple overhead doors at the Public Works facility located at 1390 Willow Road. The current units have been in place since roughly 2003. These are all operational but require frequent repairs. The Village's goal is to systematically replace these units over a set period of years with the scope of this contract focusing on Phase I replacements only. Phase I, consisting of four doors, was completed in 2025.

This Specifications section includes provisions for a base scope of work as well as an optional scope of work to be awarded at the Village's sole discretion. All bidders shall at least bid on the base scope of work.

The Village reserves the right to reject any and all bids for any reason and reduce the work scope due to budgetary constraints at any time at its sole discretion. The Village also reserves the right to award individual sections of the bid to the lowest bidder at its sole discretion.

2. Base Scope of Work:

The Base Scope of Services shall contain the following items:

A. Replacement of the following existing overhead doors (including door, tracks, operator, drums, springs, optical sensors, etc.):
   i. Door #33 (22'6" x 14' galvanized steel door with Center Mount Operator, 110 volts)
   ii. Door #32 (22'6" x 14' galvanized steel door with Trolley Operator, 110 volts)
   iii. Door #8 (21'4" X 14' galvanized steel door with Center Mount Operator, 110 volts assumed)
   iv. Door #9 (22' x 14' galvanized steel door with Center Mount Operator, 110 volts assumed)
B. Field verify size and necessary items for replacement.
C. Remove and properly dispose of existing doors and components.
D. Furnish and install new door and components (25,000 cycle lifespan springs to be used)
E. Furnish and install transitional electrical material to connect to the existing electrical wiring.
F. Furnish and install insulation as required by manufacturer.
G. Start-up the new unit and check for proper operation including optical sensors and other safety features.
H. Secure any and all permits required per Local or State law, regulation or ordinance.

The ultimate goal for this project is to have turnkey replacement of the existing doors itemized in this Scope of Services. This Scope of Services explicitly includes any and all materials, labor and other such items which can be reasonably assumed to be required to achieve this scope, whether specifically named or not within this Scope of Services. The Village's preference would be to match as closely as possible the aesthetic of the 450U Doors by Amarr installed in 2025 if the Contractor does not propose to use the same model.

3. **Optional Scope of Work:**

The Optional Scope of Work shall contain the following items:

A. Replacement of the following existing overhead doors (including door, tracks, operator, drums, springs, optical sensors, etc.):
B. Field verify size and necessary items for replacement.
    i. Door #15 (12'2" x 14" galvanized steel door with hoist operator, 110 volts assumed)
C. Remove and properly dispose of existing door and components.
D. Furnish and install new door and components (25,000 cycle lifespan springs to be used)
E. Furnish and install transitional electrical material to connect to the existing electrical wiring.
F. Furnish and install insulation as required by manufacturer.
G. Start-up the new unit and check for proper operation including optical sensors and other safety features.
H. Secure any and all permits required per Local or State law, regulation or ordinance.

The ultimate goal for this project is to have turnkey replacement of the existing units itemized in this Scope of Services. This Scope of Services explicitly includes any and all materials, labor and other such items which can be reasonably assumed to be required to achieve this scope, whether specifically named or not within this Scope of Services. The Village's preference would be to match as closely as possible the aesthetic of the 450U Doors by Amarr installed in 2025 if the Contractor does not propose to use the same model.

4. **Locations:**

The work to be completed under the Scope of Service shall be conducted at 1390 Willow Road, Winnetka, IL (the "Work Site").

5. **Term and Completion Date:**

The proposed contract is for a period of no more than 120 days from the date of execution of this Agreement by the Contractor and the Village (with the date of execution defined as the date of the Village's acceptance and signature as signified by the Acceptance Sheet) unless modified by a change order as outlined under Section 11(A) of these specifications but, in no case, later than August 31, 2026. The Completion Date for this Agreement shall be the same as the termination date of this Agreement.

6. **Contractor Qualifications**:

Qualified vendors must have at least five years of experience with the installation and maintenance of overhead door systems.

7. **Contractor Responsibilities:**

A. Personnel Requirements:

All employees assigned by the Contractor shall be fully capable, experienced, and trained in the work they are employed to perform. All employees assigned by the Contractor shall comply fully with all State and Federal laws. They shall be physically able to do their work and be free from any communicable diseases. The Contractor is responsible and liable for any wrongful actions of his employees.

B. Work Crew Supervision:

The Contractor shall provide a qualified foreman to supervise each crew engaged in working under this agreement. The foreman must be able to converse in the English language and shall be authorized by the Contractor to accept and act on directives from an authorized representative of the Village. Failure to do so shall be sufficient cause for the Village to give notice that the Contractor is in default of the agreement unless such directives would create potential personal injury or safety hazards, or such directives are contrary to the intent of these specifications. In the event only one person is assigned under this agreement, such person shall be considered the foreman and must meet the previously stated requirements.

C. Protection of Public and Private Property:

i. The Contractor shall exercise all necessary caution to protect pedestrian traffic in the building and to protect all public and private property from injury or damage caused by the Contractor's operations.

ii. Any practice obviously hazardous in the opinion of an authorized Village representative shall be immediately discontinued by the Contractor upon receipt of either written or oral notice to discontinue such practice.

iii. The Contractor shall comply with all OSHA and other Federal and State safety standards. All employees engaged in the Work under this Agreement shall have be sufficiently trained in any and all applicable safety standards related to the Work. Upon request, the Contractor shall furnish training records or any such other evidence requested by the Village for the purposes of establishing compliance with this section.

iv. To the extent that the Contractor and/or any subcontractors have access to any sensitive information technology systems or components during the completion of the Work, the Contractor shall take all necessary steps to safeguard and protect those systems from unauthorized access, breach, impairment or disclosure. Negligence or failure of the Contractor to take such steps shall constitute a violation of this Agreement and may result in its immediate termination at the Village's sole discretion. The Contractor shall further be liable for any damages which may result from failure to protect or otherwise safeguard such information.

D. Contractor to Furnish

The Contractor shall provide at its sole expense all personnel, materials, equipment, supplies and other costs needed to complete the work, including not but limited to transportation, fuel and permitting costs.

8. Subcontractors:

A. Approval and Use of Subcontractors

Contractor shall perform the Work with its own personnel and under the management and supervision and control of its own organization unless otherwise approved by the Village in writing. All subcontractors used by Contractor shall be acceptable to, and approved in advance by, the Village. The Village's approval of any subcontractor shall not relieve Contractor of full responsibility and liability for the performance of this Agreement, and every reference in this Agreement to "Contractor" shall be deemed also to refer to all subcontractors of Contractor.

B. Removal of Subcontractors

If any subcontractor fails to perform the part of the Work undertaken by it in a manner satisfactory to

the Village, then Contractor shall immediately upon notice from the Village terminate such subcontract. Contractor shall have no claim for damages, or for compensation in excess of the Agreement Price, as a result of any such termination.

9. Working Hours:

Unless otherwise authorized by the Village's representative, the Work shall be completed Monday through Friday between the hours of 7:00 a.m. and 3:30 p.m., exclusive of Village holidays.

10. Reporting:

Upon completion of the project, the Contractor shall furnish the following documents and/or reports to the Village for its records:

1. As-Built Drawings and/or Schematics As Applicable for the Work Site
2. Warranty Documentation for any and all mechanical components, software or other items installed as part of the project
3. Certified Payroll Utilizing Illinois Department of Labor Required Database

Final payment will not be issued until after receipt of each item listed above unless otherwise approved by the Village's representative.

11. Additional Information:

A. Change Orders: In the event a change order is required as outlined under 720 ILCS 5/33E-9, such change order shall be prepared on forms supplied by the Village. Each request for a Change Order shall be considered and approved or denied at the Village's sole discretion. Nothing in this Agreement shall compel the Village to approve any Change Order requests. Change Orders shall become effective only following execution of such Change Orders by both the Village and Contractor.

B. Optional Walkthrough: An optional walkthrough will be held for bidders on Tuesday, January 20, 2026 at 10 a.m. at Public Works facility, 1390 Willow Rd. No further opportunities will be given to tour the Work Sites after this meeting, and no bid shall be accepted from any bidder who was did not attend this walkthrough.

C. Prevailing Wage: This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the current "prevailing rate of wages" (hourly cash wages plus amount for fringe benefits) in the county where the work is performed. The Department publishes the prevailing wage rates on its website at http://labor.illinois.gov/. The Department revises the prevailing wage rates and the contractor and any and all of its subcontractors have an obligation to check the Department's web site for revisions to prevailing wage rates. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage requirements and notice and record keeping duties.

12. Schedule of Prices:

Overhead Door Replacements, Phase II	
Item	**Cost**
Base Scope of Work	**$** 44,813.00
Optional Scope of Work	**$** 7,250.00
Combined Scope of Work (Base + Optional)	**$** 52,063.00

ACCEPTANCE

The Contract attached hereto and by this reference incorporated herein and made a part hereof is hereby accepted by the order of the Village of Winnetka ("Owner") as of _____, 20___.

This Acceptance, together with the Contract attached hereto, constitutes the entire and only agreement between the parties relating to the accomplishment of the Work and the compensation therefor and supersedes and merges any other prior or contemporaneous discussions, agreements, or understandings, whether written or oral, and shall prevail over any contradictory or inconsistent terms or conditions contained in any purchase order, acceptance, acknowledgement, invoice, or other standard form used by the parties in the performance of the Contract. Any such contradictory or inconsistent terms or conditions shall be deemed objected to by Owner without further notice of objection and shall be of no effect nor in any circumstances binding upon Owner unless accepted by Owner in a written document plainly labeled "Amendment to Contract." Acceptance or rejection by Owner of any such contradictory or inconsistent terms or conditions shall not constitute acceptance of any other contradictory or inconsistent terms or conditions.

VILLAGE OF WINNETKA

Signature: _____

Printed name: _____

Title: _____

COMMERCIAL POLYURETHANE PRODUCTS

Industry-Leading Energy Efficiency and Engineering

HÖRMANN

Product Details

Steel Commercial Polyurethane Insulated Doors

WARRANTY INFORMATION

Door: 10 yr | Hardware: 1 yr | Springs: 1 yr

THERMAL RATING

U	0.21 (440U) 0.15 (450U)	R	15.7 (440U) 18.4 (450U)	Note: A lower U-Factor number indicates a higher efficiency

- Steel Front and Back
- 1-1/2" (440U) or 2" (450U) Sections
- 5 Colors + Custom Color
- 3 Window Designs

Thermal Rating

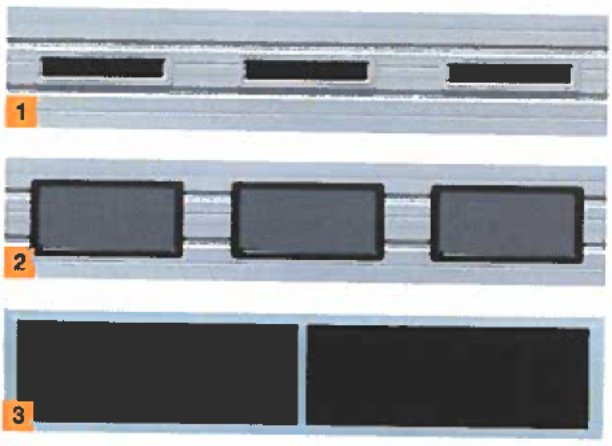
Durability

Low Maintenance

440U and 450U panels are produced in microgroove design with stucco embossment.

440U and 450U panels are also produced in flush design with woodgrain embossment.

Window Design Options



1. 24" X 6"
2. 24" X 12"
3. Clear anodized full-view aluminum section

For the 440U and 450U, window frames (options 1 and 2) are available standard in black and optional in white, brown, sandstone, grey (to pair with silver metallic), and in custom color (Galaxy Paint Sytstem).

Full-view sections (option 3) may also be painted to match the door.

Galaxy Painted Microgroove with 2 Full View Aluminum Sections

Metallic Silver Micgrogroove with Full View Aluminum Section

Galaxy Painted Microgroove Without Windows

Galaxy Painted Microgroove with Full View Aluminum Section

Product Options

Commercial Polyurethane Insulated Doors - Unmatched Efficiency and Durability

● = Standard
○ = Optional
— = Unavailable

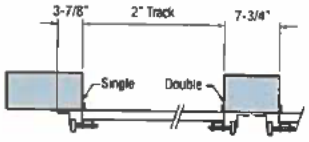
Model	440U 1-1/2" Sections	450U 2" Sections
Maximum Size Range	20'-2" w x 20' h	26'-2" w x 20' h
R-Value	15.7	18.4
Design Options	Microgroove Flush	Microgroove Flush
Texture	Stucco: Microgroove Wood Grain: Flush	Stucco: Microgroove Wood Grain: Flush
Color Options		
White	●	●
Black	●	●
Mocha Brown	●	●
Sandstone	●	●
Metallic Silver	●	●
Galaxy Paint	●	●
Glass Options (in)		
24 x 6 or 24 x 12 Black Frames	●	●
24 x 6 or 24 x 12 White, Mocha Brown, Sandstone, Grey (to pair with Metallic Silver), or Custom Color (Galaxy Paint System) Frames	○	○
Clear Anodized or Color-Matched Full-View Aluminum Sections	○	○
Rope	●	●
Locks		
Slide Lock	●	●
T-Handle	○	○
Cylinder	○	○
Mini-Warehouse	○	○
Track Configuration		
Bracket Mount	●	●
Continuous or Reverse Angle (per weight and width rules)	○	○
Tapered Angle (2")	○	○
3" Track	○	○
Floor Seal		
Grey 3" Vinyl Floor Seal	●	●
Black 4" Vinyl Floor Seal (shipped separately)	○	○
Hardware		
14 ga. Hardware	●	●
11 ga. Hardware (end and center hinges) - Consult Factory	○	○

ADDITIONAL OPTIONS

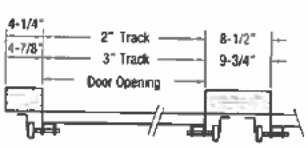
- Epoxy painted track and hardware
- 13 ball bearing sealed rollers 2" & 3"
- Higher Cycle Spring options: (25K, 50K & 100k)
- Optional Weather Seals: Vinyl Door Stop, Reverse angle jamb seal, header seal and bottom astragal standard & oversized

Commercial Track Mounting Options

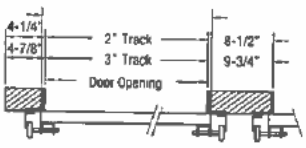
Bracket Mounted Track



Continuous Angle Track



Reverse Angle Track



Typical Construction for Reverse Angle
Door Width = Door Opening Width + 2
(i.e. 8'2", 10'2", 16'2", 20'2" etc.)

Sparta, TN - North American Headquarters / Sectional Doors

SIX PRODUCTION PLANTS, ONE FAMILY

As one of the world's leading manufacturers of door and dock systems, we're committed to providing the best quality, value, and selection. Whether residential, commercial or industrial, we have the solutions you're looking for. Each Hörmann product gives you the perfect array of benefits and options to satisfy your customers.

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Oro-Medonte, ON Canada

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Imperial, PA

USA
Toll Free: 800.365.3667
Email: info@hormann.us
Website: hormann.us

Canada
Toll Free: 866.792.9968
Email: info@hormann.ca
Website: hormann.ca

Mexico
Toll Free: 52 (81) 8308 7481
Email: info@hormann.com.mx
Website: hormann.mx

DASMA · IDA International Door Association · IARW · A Core Partner of GLOBAL COLD CHAIN ALLIANCE · IPM International Parking & Mobility Institute · FPSA Food Processing Suppliers Association · PDA Professional Door Association of NEW ENGLAND · NBWA · BOMA International · USGBC MEMBER · AIA Continuing Education Provider

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PM 27801837

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Village of WINNETKA, IL

Agenda Item Executive Summary

TITLE: Hubbard Woods Parking Structure - Signage Aesthetics Plan Preliminary Review

PRESENTER: Tom Powers

AGENDA DATE: February 17, 2026

CONSENT: No

ITEM TYPE: Presentation

ITEM HISTORY:
January 6, 2026 Council reviewed the the planned repairs to the Hubbard Woods Parking Deck and requested that staff follow up with the Council with further details about the aesthetic enhancements for the project, including the entry signage.

EXECUTIVE SUMMARY:
Staff worked with Parvis-Clauss who furnished and installed all the signage for the street scape project to develop a concept for the improved entry signage to the garage. A shop drawing was prepared and is presented for council review. The current basic concept is a sign 16 ft x 2 ft with four goose-neck lights to illuminate the sign.

Following receiving policy direction from the Council, it is expected the sign concept will go to the Design Review board for further review.

The sign is being advanced now for coordination with the electrical scope included with the garage project currently out for bid. Once the sign design is finalized, the sign will be purchased directly from Parvis-Clauss separate from the bid process. The landscape aesthetic improvements will be presented at a later date.

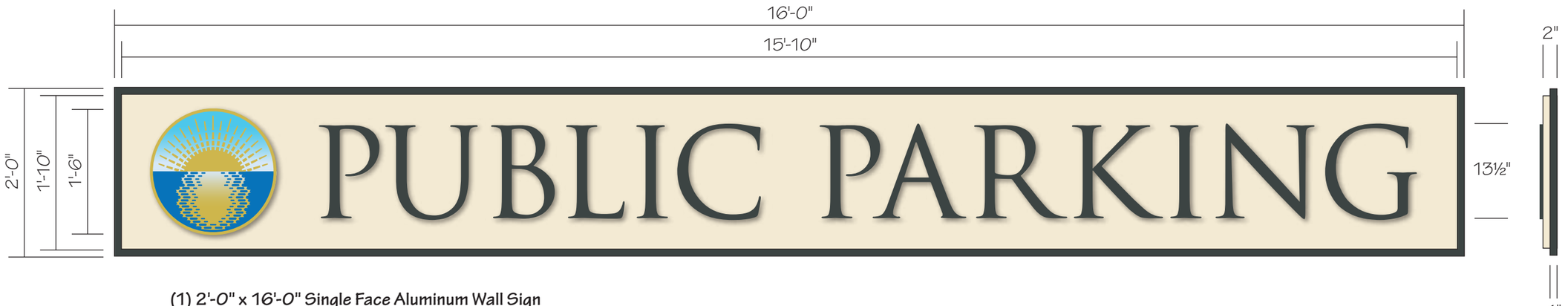
RECOMMENDATION:
Council is asked to provide policy direction regarding the Hubbard Woods Parking Deck entry signage as follows:

1. Proceed with the sign as presented utilizing the street scape aesthetic and goose-neck lighting
2. Modify the design per council direction provided during the Council meeting after reviewing the visualization

ATTACHMENTS:

1. Attachment 1: Hubbard Woods Parking Garage Proposed Signage - Parvin-Clauss Sign Company
2. Attachment 2: Proposed Signage
3. Attachment 3: Hubbard Woods Garage Entry Sign

ATTACHMENT 1



(1) 2'-0" x 16'-0" Single Face Aluminum Wall Sign

Sign panel: 2" deep fabricated aluminum painted MP 25833 Bone White, satin finish
Frame: 1x1 aluminum tube construction painted to match Williamsburg CW401 Market Square Tavern Dark Green, satin finish
City Logo: 1/2" thick FCO acrylic painted Williamsburg CW401 Market Square Tavern Dark Green, satin finish, full-color digital print on H.P. White vinyl applied, flush stud-mount
Letters: 1/2" thick FCO acrylic painted Williamsburg CW401 Market Square Tavern Dark Green, satin finish, flush stud-mount
Mounting: on exterior wall w/ angle clips, masonry anchors and hardware appropriate for conditions

Site survey required prior to production

Gooseneck lights by others - TBD

Existing

Proposed

Parvin-Clauss
SIGN COMPANY
Design ▪ Fabrication ▪ Installation ▪ Maintenance
165TubewayDrive▪CarolStream▪Illinois60188
Tel/630-510-2020 ▪ Fax/630-510-2074
e-mail/signs@parvinclauss.com
www.parvinclauss.com

PROJECT:

Hubbard Woods Parking Garage
Tower Ct.
Winnetka, IL 60093

CUSTOMER APPROVAL:

DATE

AUTHORIZED SIGNATURE

REPRESENTATIVE
House / KZ

DRAWN BY
Bill Goodwyn

DATE
2.3.26

SCALE
3/4" = 1'

SHEET NO.
1 of 1

ESTIMATE / JOB NUMBER
17807

FILE NAME
WINN17807

REVISIONS:
1 2.10.26
2
3
4
5
6
7
8
9
10

This sign is built to UL Standards for operation in North America.

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PUBLIC PARKING
6' -8" CLEARANCE 6' -8"

ATTACHMENT 3

THE VILLAGE OF
Winnetka

HUBBARD WOODS GARAGE ENTRY SIGN

02/17/26

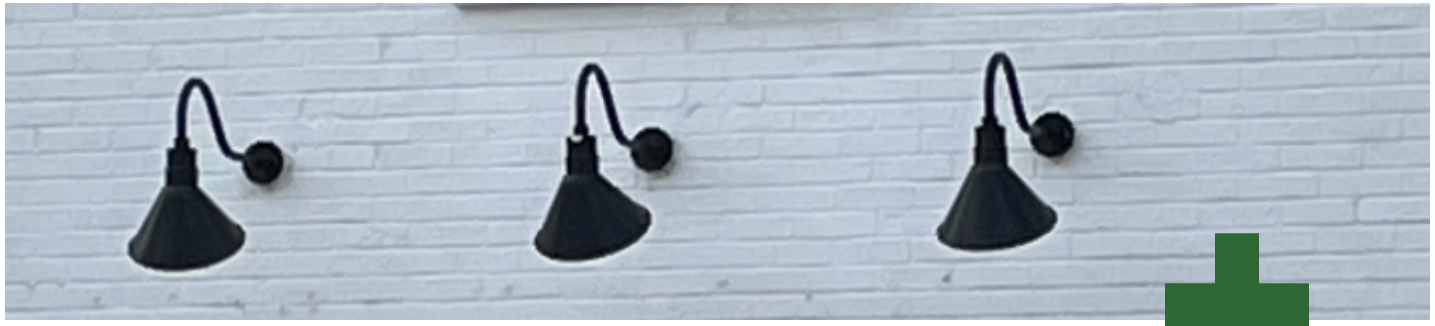
OUTLINE

1. Existing condition
2. Sign concept
3. Shop drawing
4. Photo-sim
5. Next Steps
6. Discussion and Policy Direction

EXISTING CONDITIONS

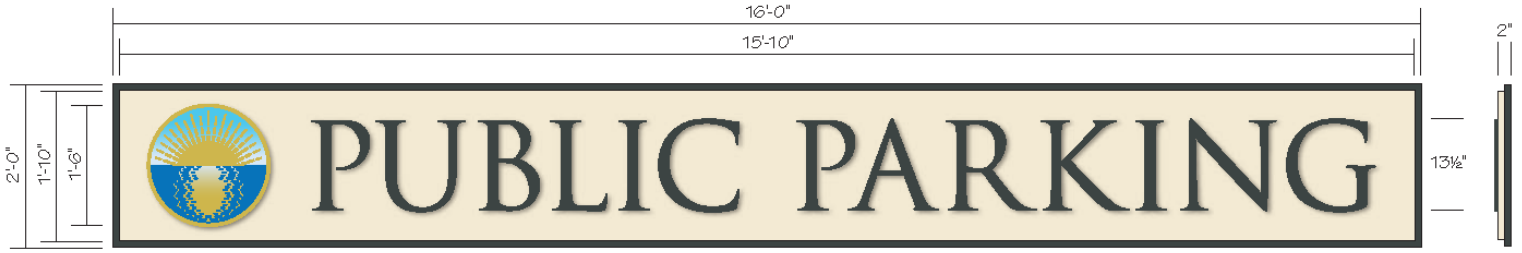
EXISTING CONDITION

AESTHETIC OPTIONS – ENTRY SIGNAGE AND LIGHTING



PUBLIC PARKING
6' -8" CLEARANCE 6' -8"

SHOP DRAWING



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Letters: 1/2" thick FCO acrylic painted Williamsburg CW401 Market Square Tavern Dark Green, satin finish, flush stud-mount
Mounting: on exterior wall w/ angle clips, masonry anchors and hardware appropriate for conditions

Site survey required prior to production

Gooseneck lights by others - TBD

Existing

Proposed

This sign is built to UL Standards for operation in North America.

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Parvin-Clauss
SIGN COMPANY
Design • Fabrication • Installation • Maintenance
165 Tubeway Drive • Carol Stream • Illinois 60188
Tel/630-510-2020 • Fax/630-510-2074
e-mail/signs@parvinclauss.com
www.parvinclauss.com

PROJECT:

Hubbard Woods Parking Garage
Tower Ct.
Winnetka, IL 60093

CUSTOMER APPROVAL:

DATE

AUTHORIZED SIGNATURE

REPRESENTATIVE
House / KZ

DRAWN BY
Bill Goodwyn

DATE
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SCALE
3/4" = 1'

SHEET NO.
1 of 1

ESTIMATE / JOB NUMBER
17807

FILE NAME
WINN17807

REVISIONS:
1 2.10.26
2
3
4
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9
10

SIGN

1. Obtain Council Feedback
2. Submit to DRB
3. Parvis–Clauss to Furnish and Install

EXTERIOR LANDSCAPE AESTHETIC

1. Complete Garage Repair Bid Process and Award
2. Determine Remaining Budget for Landscape Aesthetics
3. Teska Return to Council to Present Concepts
4. Contract Independently with Landscape Company for Improvements

Discussion and Policy Direction

PUBLIC
PARKING
6' -8" CLEARANCE 6' -8"
This option does not have room for gooseneck lights.

PUBLIC PARKING
6'-8" CLEARANCE 6'-8"

Village of WINNETKA, IL

Agenda Item Executive Summary

TITLE: 736 Elm Street – Solidcore – Special Use Permit – Policy Direction

PRESENTER: Scott Mangum

AGENDA DATE: February 17, 2026

CONSENT: No

ITEM TYPE: New Business

ITEM HISTORY:
None.

EXECUTIVE SUMMARY:
On February 17, 2026, the Village Council is scheduled to consider the Plan Commission ("PC") recommendation regarding an application submitted by Solidcore (the "Applicant"), as the prospective lessee of the property located at 736 Elm Street (the "Subject Property"), seeking approval of a special use permit to operate a personal fitness studio in the Commercial Overlay District on the Subject Property. If approved, the Applicant would open a Winnetka location in the One Winnetka building for a nationally based fitness studio chain. The decision of whether or not to grant a special use permit lies with the Village Council after receiving a recommendation from the PC.

ADVISORY BOARD/PLAN COMMISSION REVIEW
The Plan Commission ("PC") considered the request at its January 28, 2026, meeting. After hearing from the Applicant and receiving no verbal or written comments from the public, the PC discussed the request. The PC commented favorably on the business itself, however, some members expressed concern that the business in the proposed location does not meet the standards for granting a special use. Commission members asked about other tenants in the One Winnetka development and wanted to understand how many other special uses have been approved or are expected to be proposed for the building. Some members expressed concern about the proposed fitness studio clashing with neighboring tenants, with issues such as parking and noise trespass from fitness studio activities. Additionally, some members indicated a preference of seeing a representative from the building ownership present at the meeting for this type of request. Members also discussed whether the proposed fitness studio would contribute to the retail environment of the district; some members commented that the business would bring a large number of people to the business district, for which other businesses could benefit from. The PC also discussed the extent to which the retail environment has changed since the inception of the Overlay District. PC members did acknowledge that the fitness classes offered by the proposed studio would be appealing to a segment of Village residents.

Initially, the members were split 4-4. However, after further discussion, by a vote of 5-3, the PC

recommended denial of the request based on the Commission's findings of fact below that the proposed personal fitness studio in the Commercial Overlay District at 736 Elm Street is NOT CONSISTENT with the following standards for granting of Special Use Permits in the commercial Overlay District:

2. The Special Use will not be substantially injurious to the use and enjoyment of other property in the immediate vicinity which are permitted by right in the district or districts of concern, nor substantially diminish or impair property values in the immediate vicinity;
5. Adequate parking, utilities, access roads, drainage, and other facilities necessary to the operation of the Special Use exists or are to be provided;
7. The proposed special use at the proposed location will encourage, facilitate and enhance the continuity, concentration, and pedestrian nature of the area in a manner similar to that of retail uses;
9. The proposed special use at the proposed location will provide for display windows, provided that the street facing windows remain open and transparent as viewed from the sidewalk into the tenant space. The proposed special use at the proposed location will provide for facades, signage and lighting similar in nature and compatible with that provided by retail uses;
12. The proposed location and operation of the proposed special use shall not significantly diminish the availability of parking for district clientele wishing to patronize existing retail businesses.

It should be noted, the standards listed above are by the number from the "Standards for Review/Findings" section of the staff report for the January 28 PC meeting. Details of the request can be found in the attached staff report to the PC. For additional details please reference this report as well as the draft minutes of the January 28 PC meeting, which are included as **Attachment 1**.

Since the PC meeting, the Applicant has submitted an amended floor plan, which is included as **Attachment 2**. The amended floor plan represents a reconfiguration of the front of the commercial space, which results in one less studio machine therby reducing class sizes from 16 to 15 clients.

Given the PC recommended of denial of the request, this item is before the Village Council for policy direction.

RECOMMENDATION:
Village staff requests policy direction from the Village Council regarding the requested special use permit. If the Council is ready to make a decision, does the Council find it appropriate to approve a special use permit to allow a personal fitness studio in the Commercial Overlay District at 736 Elm Street? The Council will need to direct staff to prepare the necessary documents for either approval or denial of the requested special use permit.

ATTACHMENTS:
1. January 28, 2026, PC Meeting Staff Report and Meeting Minutes Excerpt
2. February 6, 2025, Amended Floor Plan Submitted by Applicant

MEMORANDUM
VILLAGE OF WINNETKA
COMMUNITY DEVELOPMENT DEPARTMENT

TO: PLAN COMMISSION

FROM: CHRISTOPHER MARX, AICP, ASSOCIATE PLANNER

DATE: JANUARY 22, 2026

SUBJECT: 736 ELM STREET – SOLIDCORE
SPECIAL USE PERMIT (CASE NO. 26-02-SU)

INTRODUCTION

On January 28, 2026, the Plan Commission is scheduled to hold a public hearing to consider an application submitted by Solidcore (the "Applicant"), as the prospective lessee of the property located at 736 Elm Street (the "Subject Property"), **to allow a personal fitness studio to occupy the Subject Property**. The property is currently owned by MDG Winnetka One, LP.

The Applicant has filed an application seeking approval of a Special Use Permit in accordance with Chapter 17.56 [Special Uses] of the Winnetka Zoning Ordinance to permit a personal fitness studio in the C-2 General Retail Commercial Overlay District at the Subject Property. The Applicant would be opening a Winnetka location of a nationally based fitness studio chain.

A sign has been posted on the Subject Property and a website notice has been posted on the Village website indicating the time and date of the Plan Commission public hearing. A mailed notice has been sent to property owners within 500 feet of the Subject Property. As of the date of this memo, staff has not received any written comments from the public regarding this application.

PROPERTY DESCRIPTION

The Subject Property is one of the commercial spaces located in the four-story mixed-use building that is currently under construction at 720-736 Elm Street and 515-525 Lincoln Avenue (newly assigned addresses), often referred to as *One Winnetka*, located on the southeast corner of the intersection of Elm Street and Lincoln Avenue. The approximately 2,363 square foot space at 736 Elm Street is a portion of the 20,955 square feet of commercial space in the One Winnetka building and is on the western portion of the building's north facing commercial space. To date, the other tenants within the development that have received approvals are the Winnetka Aesthetic Studio medical office and a Charles Schwab financial services office, although a restaurant is expected to occupy the northwestern space on the first floor near the street intersection. There will be 59 residential units on the second, third, and fourth floors.

The Subject Property is located within the Village's **Commercial Overlay District,** which allows non-retail uses, such as fitness studios; however, the Zoning Ordinance requires that they be evaluated by the Plan Commission and Village Council as a special use. Figures 1 through 4 on the following pages identify the One Winnetka site and the proposed location of the fitness studio.

Figure 1 – One Winnetka Site – GIS Map

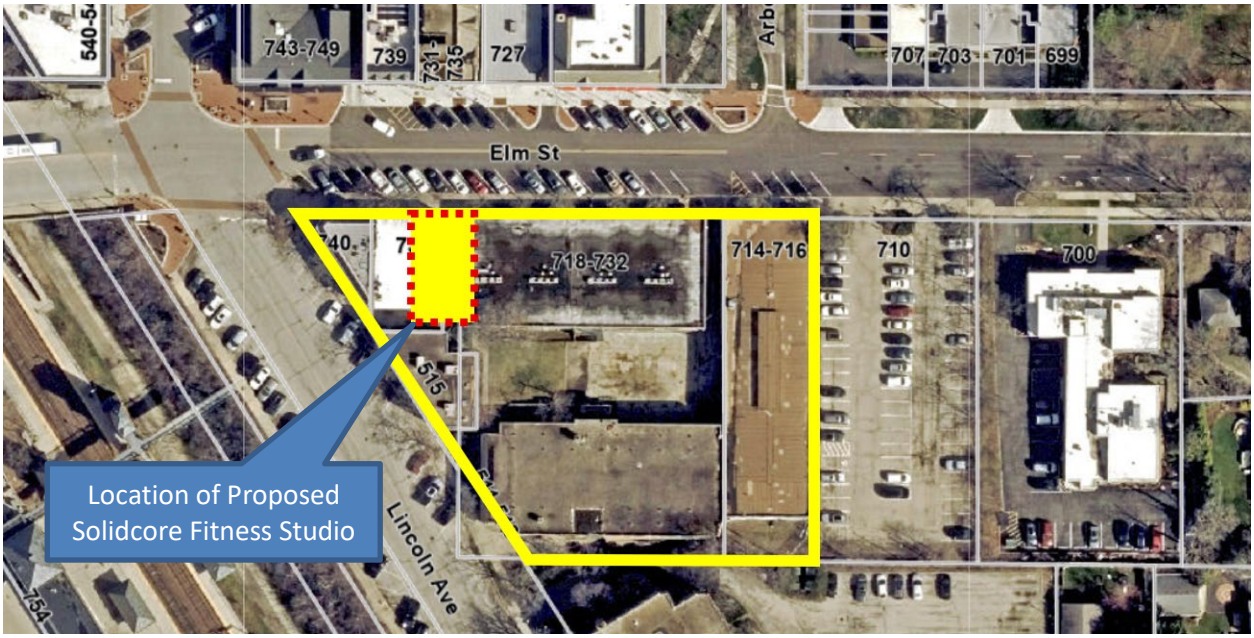


Figure 2 – Aerial Location Map

Figure 3 – One Winnetka – North Facing Elm Street Façade

Figure 4 – One Winnetka – Rendering of Proposed Fitness Studio Along Elm Street Façade

COMMERCIAL OVERLAY DISTRICT BACKGROUND

The Overlay District was established in 1987 out of concern about the viability of the business districts as a whole if non-retail occupancies were allowed to proliferate and occupy significant areas within retail shopping districts. At the time of adoption there was a concern about the possible proliferation of real estate offices and financial institutions.

The Village Zoning Ordinance describes the purpose of the Overlay District and its restrictions on non-retail uses as being:

> *"to encourage retailing of comparison shopping goods and personal services compatible with such retailing on ground floor in order to encourage a clustering of such uses, to provide for a wide variety of retail shops and expose such shops to maximum foot traffic, while keeping such traffic in concentrated (yet well distinguished) channels throughout the district."*

Since its adoption in 1987, the Overlay District has been revised on more than one occasion to alter district boundaries, or to modify the types of uses which are permitted within each district. The most recent amendment occurred on April 4, 2019, when the Village Council adopted MC-01-2019, amending the Zoning Ordinance regarding uses and regulations in the three commercial districts, including amendments to the Overlay District and the standards used to evaluate a special use.

ELM STREET BUSINESS DISTRICTS OVERLAY BOUNDARIES

A map depicting the zoning classifications of the Elm Street Business Districts is included on the following page as Figure 5. The One Winnetka site is highlighted yellow.

Gray areas indicate the underlying C-2 General Retail Commercial zoning, which permits by right a relatively broad array of uses, including various retail uses, along with a number of non-retail uses such as professional offices, financial service firms, medical offices and the like.

Red crosshatch areas represent those areas subject to the restrictions of the Commercial Overlay District. The boundaries of the Overlay District are established along certain public streets and extend for a depth of 50 feet from the front property line.

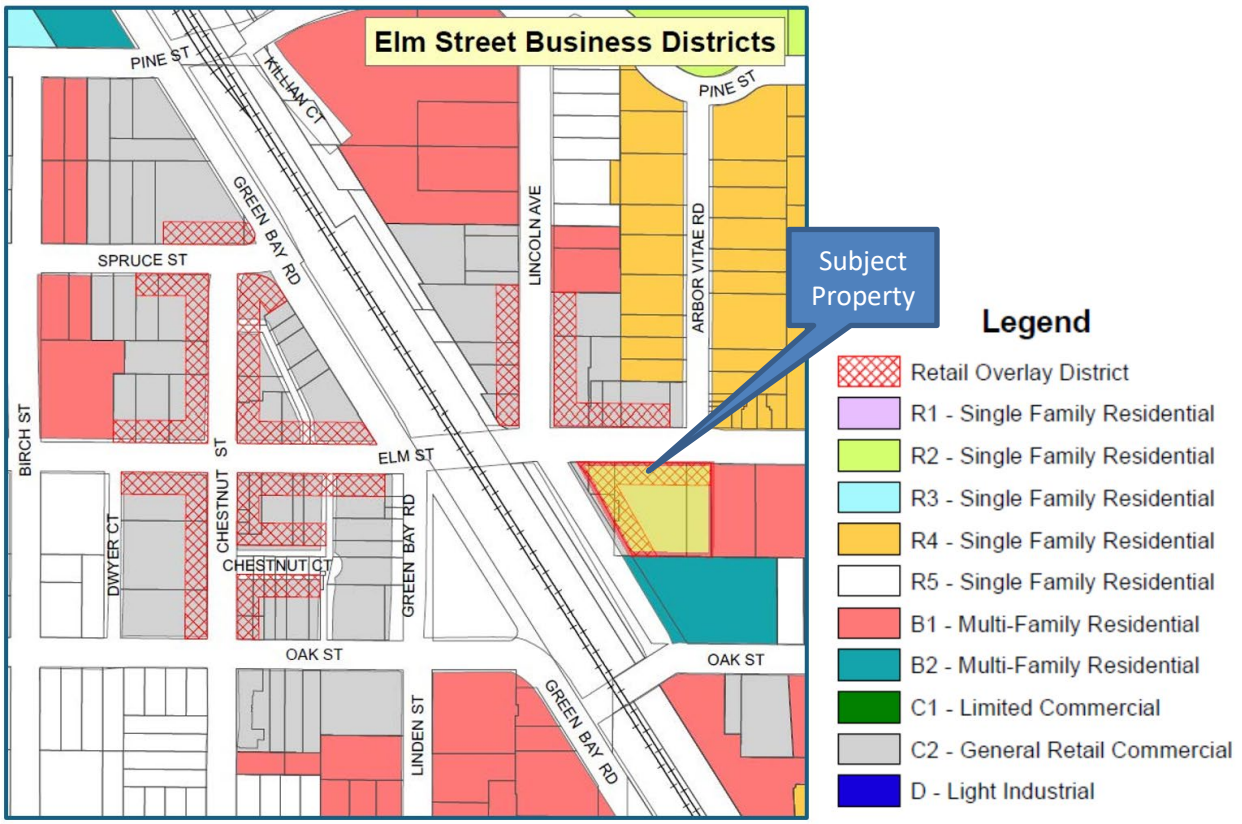


Figure 5 – Elm Street Business Districts

PREVIOUS APPROVALS

On January 21, 2025, the Village Council adopted Ordinance M-01-2025, an Ordinance Granting Final Approval of a Planned Development, Zoning Exceptions, a Special Use for Ground Floor Parking, and Special Use Findings for Medical and Financial Services Uses at 511-515 Lincoln Avenue and 714-740 Elm Street - One Winnetka (previous addresses). The ordinance granted partial approval of certain special use findings for medical and financial services.

On September 16, 2025, the Village Council adopted Ordinance M-12-2025, an Ordinance Granting a Special Use Permit for the Operation of a Financial Counseling Office Within the C-2 Commercial Overlay District, which approved the special use permit of the Charles Schwab financial services office for 720 Elm Street in the same building. Then on December 2, 2025, the Village Council adopted Ordinance M-18-2025, an Ordinance Granting a Special Use Permit for the Operation of a Medical Office Within the C-2 Commercial Overlay District, which approved the special use permit of Winnetka Aesthetic Studio for 730 Elm Street, Suite 130, also located in the same building.

Cultural, recreational, and entertainment uses, which includes personal fitness facilities, did not receive any partial approval in Ordinance M-01-2025 approving the One Winnetka Planned Development. Therefore, all 12 special use standards set forth in Sections 17.56.120(A) and 17.44.020(B)(2)(b) of the Zoning Ordinance apply to the current application being considered by the Commission.

DESCRIPTION OF CURRENT REQUEST

The Applicant is proposing to open a Winnetka location of a nationally based franchise of fitness studios called Solidcore, which offers appointment-based group exercise classes featuring specialized workout options with methods and equipment that are distinctive to the company. The proposed fitness studio would occupy approximately 2,363 square feet of commercial space with the main entrance located along Elm Street. The space would consist of a reception area that leads to a locker area and the main exercise room. The bathrooms would be located next to the front reception area while a utility and storage room would be located towards the rear of the space. The Applicant states that retail offerings would be limited to water and energy drinks for sale at the front desk for class attendees. The Applicant's written description of the proposed use is included in the application materials which are provided as **Attachment A**.

The anticipated hours of operation are 5:00 am to 11:00 pm on Monday through Friday and 7:00 am to 6:00 pm on Saturday and Sunday. Classes would be by appointment-only, with no walk-ins. The daily schedule would contain varying class time lengths with ten-minute gaps between classes to minimize overlaps. On a typical day, the Applicant expects there would be 2 or 3 employees in the fitness studio with 16 clients, for a maximum of 19 people on the premises at any given time.

For parking, the Applicant is proposing that its approximately 14 employees (two full-time and 12 part-time) secure the necessary parking permit and park in public parking lots in the district, including the Village-owned parking lot adjacent to One Winnetka, which does contain "A" permit parking spaces for employees. The Applicant indicates that clients will utilize on-street parking or the parking in the ground level of the commercial parking within the One Winnetka building. The off-street parking provided on the One Winnetka site for commercial uses consists of 39 spaces in the ground level of the building, which is the same number of parking spaces required by the Zoning Ordinance. For reference, the Zoning Ordinance requirement for commercial uses is two spaces for every 1,000 square feet of tenant space. Ten of the ground level spaces are reserved for the Charles Schwab financial services office that was approved in a previous special use permit case.

Figure 6 on the following page highlights the commercial space the Applicant is proposing to occupy in the north section of the One Winnetka building. **Figure 7** shows the proposed floor plan and layout for the fitness studio.

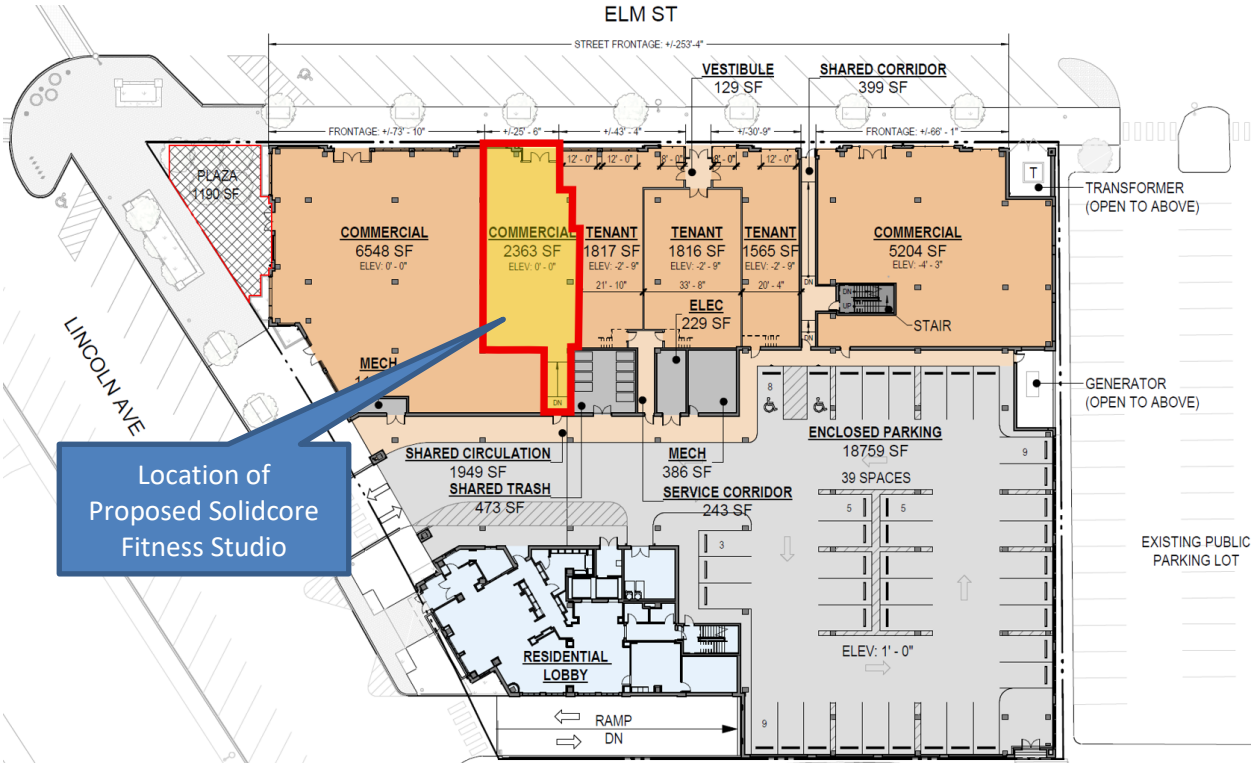


Figure 6 – One Winnetka Ground Level Plan

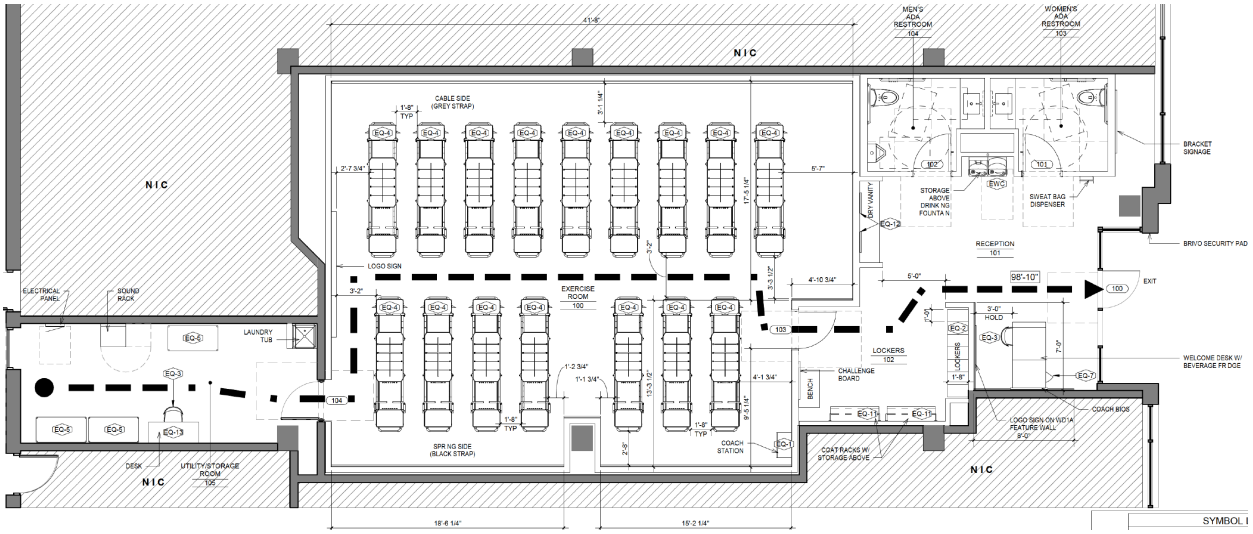


Figure 7 – Excerpt of Proposed Floor Plan

DESIGN REVIEW BOARD REVIEW

The Applicant has indicated that it has no plans to alter the exterior of the building that is currently under construction, except for potential commercial signs or exterior lighting that will be applied for at a later date. Any proposed signage or exterior alterations, including lighting, will require submission of a Sign Permit application or Certificate of Appropriateness application that must be reviewed and approved by the Village's Design Review Board.

STANDARDS FOR REVIEW / FINDINGS

The "Purpose" section of Chapter 17.56 Special Uses, states the following regarding special uses:

> *It is recognized that there are special types of uses which because of their specific characteristics in relationship to uses permitted by right in a particular district, or the services which they provide, cannot be properly permitted by right in a particular district without consideration, in each case, of the impact of such uses upon neighboring land, or of the public need for such uses at a particular location.*

A land use classified as a special use is an allowed land use as long as the Applicant can demonstrate that the proposed use in its proposed specific location meets the applicable standards for granting special use approval.

Section 17.44 of the Zoning Ordinance provides a series of twelve (12) standards for the evaluation of Special Use applications within the Commercial Overlay District, which provides a framework for evaluation by the Plan Commission. The Applicant has supplied as part of their application materials a narrative addressing how this proposal complies with the twelve (12) standards. **(See Attachment A)**

Following conclusion of public comment and Commission discussion, a Commission member may choose to make the following motion:

I make a motion that:

> The Plan Commission recommends **approval [denial]** of the requested special use to allow the Applicant, Solidcore, to operate a personal fitness studio at 736 Elm Street within the C-2 Commercial Overlay District, based on the following findings of fact:
>
> "The personal fitness studio (the "Special Use") **is [is not]** consistent with the Standards for granting of Special Use Permits in the Commercial Overlay District, which are as follows:

1. The establishment, maintenance, and operation of the Special Use will not be detrimental to or endanger the public health, safety, comfort, morals, or general welfare;
2. The Special Use will not be substantially injurious to the use and enjoyment of other property in the immediate vicinity which are permitted by right in the district or districts of concern, nor substantially diminish or impair property values in the immediate vicinity;
3. The establishment of Special Use will not impede the normal and orderly development or improvement of other property in the immediate vicinity for uses permitted by right in the district or districts of concern;
4. Adequate measures have been or will be taken to provide ingress and egress in a manner which minimize pedestrian and vehicular traffic congestion in the public ways;
5. Adequate parking, utilities, access roads, drainage, and other facilities necessary to the operation of the Special Use exists or are to be provided;
6. The Special Use in all other respects conforms to the applicable regulations of this and other village ordinances and codes;
7. The proposed special use at the proposed location will encourage, facilitate and enhance the continuity, concentration, and pedestrian nature of the area in a manner similar to that of retail uses;

8. The location of the proposed special use along a block frontage shall provide for a minimum interruption in the existing and potential continuity and concentration of the retail uses along the block's frontage;
9. The proposed special use at the proposed location will provide for display windows, provided that the street facing windows remain open and transparent as viewed from the sidewalk into the tenant space. The proposed special use at the proposed location will provide for facades, signage and lighting similar in nature and compatible with that provided by retail uses;
10. If the proposed special use provides multi-use areas, such as retail merchandise areas, restaurant dining areas, general office space, private offices, reception areas, or employee work areas, any proposed retail merchandise area or restaurant dining area shall be concentrated and located immediately adjacent to the sidewalk and clearly visible from the street in such a fashion as to invite customers to browse or dine;
11. If a proposed new building contemplates a mix of retail, office and service type uses, the minimum frontage for each retail use adjacent to the sidewalk shall be 20 feet with a minimum gross floor area of 400 square feet. In addition, such retail space shall be devoted to active retail merchandising which maintain typical and customary hours of operation; and
12. The proposed location and operation of the proposed special use shall not significantly diminish the availability of parking for district clientele wishing to patronize existing retail businesses."

The Commission's recommendation is subject to **no conditions [the following conditions]**:

1. [Insert conditions…]

As noted above, the Commission may also wish to consider if there are any additional conditions it may want to place on the facility's operation.

This request is subject to final approval by the Village Council.

ATTACHMENTS

Attachment A: Application Materials

VILLAGE OF WINNETKA, ILLINOIS
DEPARTMENT OF COMMUNITY DEVELOPMENT

SPECIAL USE PERMIT APPLICATION
C-2 COMMERCIAL OVERLAY

Case No. _____

Property Information

Site Address: 736 Elm Street, Winnetka, IL 60093

Proposed type of occupancy: B - Business

Applicant Information

Name: Solidcore

Address: Solidcore, 1735 N Lynn St, Suite 650

City, State, ZIP: _____

Applicant Signature [redacted]

Primary Contact: Landon Vowels

Phone No. 312-585-7531

Email: landon@withpulley.com

Date: 01/12/2026

Attorney Information

Name: N/A

Primary Contact: _____

Address: _____

City, State, ZIP: _____

Phone No. _____

Email: _____

Architect Information

Name: DxU Architects

Primary Contact: Emily Lindsey

Address: 412 S. Wells St.

City, State, Zip: Chicago, IL 60607

Phone No. 312.955.0334

Email: elindsey@dxuarch.com

Property Owner Acknowledgment

I hereby certify that I am the owner of the property located at 736 Elm Street, Winnetka, IL (*address*), and have provided the attached proof of ownership.

I consent to the filing of an [redacted] it by Landon Vowels, on behalf of Solidcore (*Applicant name*).

Property Owner Signature: [redacted]

Date: 12/04/2025

Printed Name: _____

MDG Winnetka One, LP
227 W. Monroe Street, Suite 5200
Chicago, IL 60606

Re: Special Use Permit Narrative
Property Address: 736 Elm Street, Winnetka, Illinois
Proposed Use: [solidcore] Fitness Studio

To whom it may concern:

Please see a summary of the proposed project below, and please refer to the following, additional pages and attachments for a complete description on how it will address each of the twelve Special Use Permit Standards.

The applicant proposes to operate a [solidcore] boutique fitness studio at 736 Elm Street. The use consists of small-group, instructor-led fitness classes conducted entirely indoors and by reservation only.

The proposed use is consistent with the purpose and intent of the Village's commercial zoning district, as it provides a neighborhood-serving personal service use that supports the vitality of the Elm Street corridor. The operation is compatible with surrounding commercial uses and will not create excessive noise, traffic, or activity outside normal business hours.

The facility will comply with all applicable Building and Fire Codes and will operate in a manner that protects public health, safety, and welfare. No site modification is proposed. Existing utilities, access, and parking infrastructure are sufficient to support the use.

The use will not negatively impact adjacent properties or property values and is expected to enhance the area by introducing an amenity that serves local residents. The applicant is willing to comply with any reasonable conditions imposed by the Village related to hours of operation, occupancy, parking, or signage.

For these reasons, we believe that the proposed use satisfies the Village's standards for granting a Special Use Permit.

[solidcore]

January 12, 2026

Solidcore Chicago, LLC
Keira Fitzgerald
1735 N Lynn St
#650
Arlington, VA 22209

To whom it may concern:

This letter addresses in detail how the proposed tenant fit out of a new **Solidcore** location at **736 Elm Street, Winnetka, IL 60093** is in compliance with the following Special Use Permit Standards as laid out by the Village of Winnetka, Department of Community Development -- Section 17.46.010 [Table of Uses] to be located on the ground floor in the C-2 Commercial Overlay District.

1. That the establishment, maintenance, and operation of the Special Use will not be detrimental to or endanger the public health, safety, comfort, morals, or general welfare;

- *The establishment, maintenance, and operation of Solidcore will not be detrimental to or endanger the public health, safety, comfort, morals, or general welfare, or have a negative environmental impact on the neighborhood or Village. The project will not create conditions materially detrimental to the public health, safety and general welfare or injurious to or compatible with other properties in the vicinity as this project is designed to promote health/awareness to community within a safe and professional business establishment. This project is an interior build out and is to comply with the latest applicable codes. The fitness studio classes are to be conducted entirely indoors in properly ventilated, sanitary, ADA compliant, noise-controlled environment that will not be detrimental to the public health.*

2. That the special use will not be substantially injurious to the use and enjoyment of other property in the immediate vicinity which are permitted by right in the district or districts of concern, nor substantially diminish or impair property values in the immediate vicinity;

- *Solidcore will not unreasonably impede the use and enjoyment of other property in the immediate vicinity which are permitted by right in the district, nor unreasonably diminish or impair property values in the immediate vicinity. Solidcore will add to the overall use and enjoyment of the vibrant community planned by the One Winnetka Development. There is no indication that property values within the vicinity would be diminished nor impaired.*

3. That the establishment of the special use will not impede the normal and orderly development or improvement of other property in the immediate vicinity for uses permitted by right in the district or districts of concern;

- *The establishment of the special use of the Solidcore space will not unreasonably impede the normal and orderly development of improvement of other property in the immediate vicinity for uses permitted by right in the district or districts of concern. The proposed use is to operate within the bounds of the LOD that is dedicated to this space of this site and will not encroach or infringe on the publics ROW nor any of the adjacencies.*

4. That adequate measures have been or will be taken to provide ingress and egress in a manner which minimize pedestrian and vehicular traffic congestion in the public ways;

- *Adequate measures to the site have been taken to provide ingress and egress in a manner which will minimize pedestrian and vehicular traffic congestion in the public ways. The vehicle entrance is located on Lincoln Avenue and the existing properties Architect (OKW Architects, LLC) and Development Group (Murphy Development Group) have previously provided on 7/12/23 and thorough breakdown and traffic analysis that eliminates any concerns of congestion. The Solidcore space has a maximum quantity of 16 client vehicles on site per hour with 2-3 full-time employee vehicles on site per day (a quantity is roughly 50% less than the parking the property provides within the site boundaries) and the existing property has 39 spaces of parking dedicated to the commercial uses on the ground level.*

5. That adequate parking, utilities, access roads, drainage, and other facilities necessary to the operation of the special use exists or are to be provided;

- *This location will employ 2 full-time employees & 12 part-time employees. A maximum of (2) employees will staff the location at any given time: (1) instructor and (1) front desk attendant. Class size is limited by the number of reformers in a given studio. Up to 16 attendees sign-up for a spot using the Solidcore mobile app ahead of the class time. No walk-in services are provided. There is only one instructor present for each class. Solidcore anticipates having 2-3 full time employee vehicles on-site per day at any given time and a maximum of 16 client vehicles on-site per hour. All drainage and other facilities to be utilized within the space have been designed in accordance with the landlord provided utility supplies and have been approved by the property/landlord.*

6. That the special use in all other respects conforms to the applicable regulations of this and other village ordinances and codes;

- *The planned development will either conform to all other respects of the applicable regulations of the village ordinances and codes, or if relief is needed for any other aspect of the project, it will be pursued pursuant to the procedures set forth in those ordinances and codes.*

7. The proposed special use at the proposed location will encourage, facilitate and enhance the continuity, concentration, and pedestrian nature of the area in a manner similar to that of retail uses;

- *The Soldicore space will have storefront windows along Elm Street with visible signage and branding to promote the pedestrian-friendly character of the district and provide opportunities for window displays and visual interest in a manner that reflects the community. Photos included for reference on **page 19 -20** of our supporting materials document.*

8. The location of the proposed special use along a block frontage shall provide for a minimum interruption in the existing and potential continuity and concentration of the retail uses along the block's frontage;

- *The location of the proposed Solidcore will provide minimal to no interruption in any existing or potential continuity of the surrounding retail uses along the blocks frontage. Solidcore plans to have an active storefront and visible storefront signage, as outlined in the interior and exterior signage packages on **pages 1 - 18** of our supporting materials document.*

9. The proposed special use at the proposed location will provide for active display windows, facades, signage and lighting similar in nature and compatible with that provided by retail uses;

- *Solidcore plans to install signage in the display windows – our standard 'bracket' signage that the brand is well known for. This signage will ensure our window displays will contribute to the vibrant atmosphere in the community. Additional details for the bracket signage to be installed on the interior wall facing the right side storefront window can be found on page 7 of the interior signage package document provided.*

- *The full exterior and interior signage packages have been included for review on **pages 1 - 18** of our supporting materials document.*

10. If the proposed special use provides multi-use areas, such as retail merchandise areas, restaurant dining areas, general office space, private offices, reception areas, or employee work areas, any proposed retail merchandise area or restaurant dining area shall be concentrated and located immediately adjacent to the sidewalk and clearly visible from the street in such a fashion as to invite customers to browse or dine;

- *Our design intent is to focus our reception desk and lobby area in the front portion of the space. This ensure that our space will feel welcoming and aesthetically pleasing to customers and passersby. The workout space and employee work/storage space is*

proposed in the rear of our floorplan to ensure these areas are not visible from the street. A few facade examples have been included on ***pages 19 - 21*** *of our supporting materials document.*

11. If a proposed new building contemplates a mix of retail, office and service type uses, the minimum frontage for each retail use adjacent to the sidewalk shall be 20 feet with a minimum gross floor area of 400 square feet. In addition, such retail space shall be devoted to active retail merchandising which maintains typical and customary hours of operation; and

- *Solidcore does not sell clothing items in studios. The only retail sales are for water and/or Celsius energy drinks, which are sold from a small fridge stored in the front desk millwork. Photo included for reference on* ***page 22*** *of our supporting materials document.*

12. The proposed location and operation of the proposed special use shall not significantly diminish the availability of parking for district clientele wishing to patronize existing retail businesses.

- *Solidcore anticipates having 2 full time employee vehicles on-site per day at any given time (one instructor and one front desk attendant) and a maximum of 16 client vehicles on-site per hour. Based on the parking study completed by the Landlord and submitted to the city, this volume of parking usage does not significantly diminish the available parking for the larger retail area.*

Best,

Keira Fitzgerald
Development Manager
keira.fitzgerald@solidcore.co

January 12, 2026

RE: [solidcore] - Winnetka, IL
736 Elm Street, Winnetka, IL

To whom it may concern,

Please accept this Comment Response Letter for the above referenced project. This submittal is in response to the comments provided by the City of Winnetka on December 12, 2025. The original comments have been included below for reference.

Susan Thomas, AICP, Esq. Economic Development Manager Village of Winnetka sthomas@winnetka.org 847-716-3528

1: 1. Standards | Staff strongly recommend addressing the special use standards individually. This will aid the commissioners and staff in their review of your materials and determination of whether the standards are satisfied.

Response: Document attached to address each of the 12 Special Use Standards individually, along with supporting materials document.

2: 2. Restrooms | The location of the restrooms in the front the space greatly diminishes the appearance of an active storefront. The Village strongly encourages a vibrant storefront and is concerned about the appearance of a wall at the front windows. Provide details of your plans to have active displays in the windows.

Response: The design intent for this wall is to install Solidcore bracket signage to ensure the storefront is attractive from the street. An elevation from an example storefront showing the wall with bracket signage installed has been added to pdf page 19.

3: 3. Sweat Bag Dispenser | Please provide more details regarding the sweat bag dispenser. As the proposed location of the dispenser would be visible from the street, an image and additional details are needed.

Response: The sweat bag dispenser is a clear acrylic, wall mounted fixture measuring 14” L x 6.5” W x 7” H. It holds a roll of Solidcore branded bags used by clients after class. Photos attached for reference.

4: 4. Signage | Please provide greater detail regarding the proposed signage. Internally illuminated signs are not permitted within the Village of Winnetka.

Response: The attached interior and exterior signage plans provide greater

detail regarding the proposed signage. The plans confirm that no internally illuminated signs are proposed, in compliance with Village of Winnetka regulations.

5: 5. Window Signage | Any signage located within five (5) feet of a window is considered a window sign. Proposed signage on the wall requires additional detail.

Response: Additional details for the bracket signage to be installed on the interior wall facing the right side storefront window have been provided on interior page 7.

6: 6. Signage Review | All proposed signage requires submission of a sign permit for review and approval by the Development Review Board (DRB).

Response: The attached interior and exterior signage plans provide greater detail regarding the proposed signage. A separate sign permit application will be submitted to the Development Review Board (DRB) for review and approval.

7: 7. Retail | Will there be a retail component? If so, how much of your space will be dedicated to retail needs? What items would be offered for sale?

Response: Solidcore does not sell clothing items in studios. The only retail sales are for water and/or Celsius energy drinks, which are sold from a small fridge stored in the front desk millwork. Photo included for reference.

8: 8. Parking | Provide the estimated size of your largest class and the number of instructors present.

Response: Class size is limited by the number of reformers in a given studio. Up to 16 attendees sign-up for a spot using the Solidcore mobile app ahead of the class time. No walk-in services are provided. There is only one instructor present for each class.

9: 9. Parking | Will there be any overlap of classes? Do you have a proposed class schedule to share? Will there be a gap between classes for clients to leave and free up parking spaces for incoming students? Identify the number of classes per day.

Response: Classes will run continuously during business hours with 10-minute breaks in between. A sample class schedule has been provided, which indicates no overlap of classes and a 10-minute gap between classes for clients to leave and free up parking spaces. The schedule identifies the number of classes per day.

10: 10. Parking | What is the total number of employees you plan to have at this location?

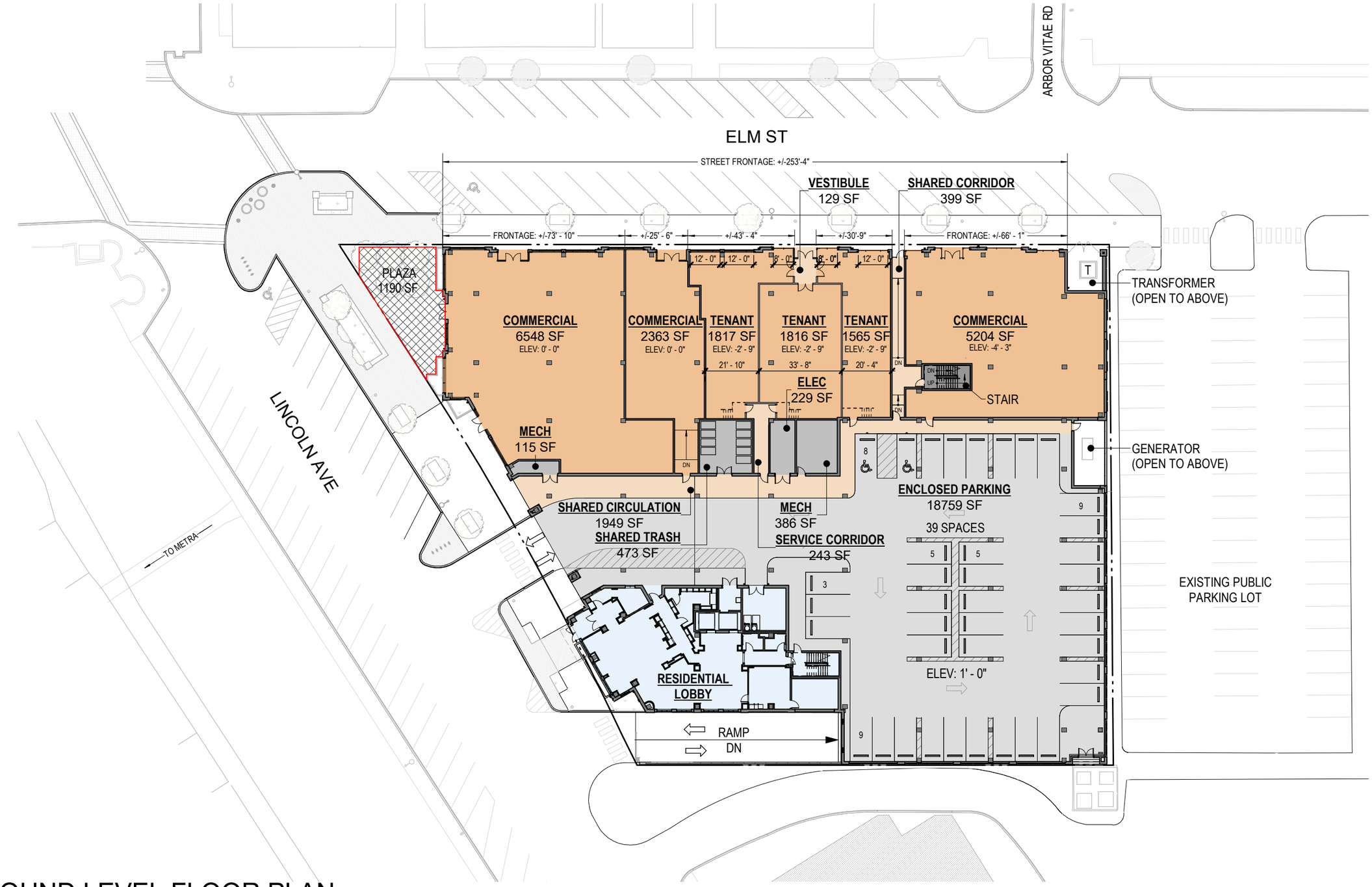
Response: This location will employ 2 full-time employees & 12 part-time employees. A maximum of (2) employees will staff the location at any given time: (1) instructor and (1) front desk attendant.

11: 11. Parking | Application materials must show compliance with all twelve (12) standards to demonstrate adequate parking needs are met while not significantly diminishing the availability of parking for district clientele.

Response: Solidcore anticipates having 2-3 full time employee vehicles on-site per day at any given time and a maximum of 16 client vehicles on-site per hour.

12: 12. Hours of Operation | Please identify the proposed hours of operation.

Response: Anticipated hours for this location will be Monday-Friday 5am-11pm and Saturday-Sunday 7am-6pm.



1 GROUND LEVEL FLOOR PLAN

SCALE: 1" = 40'-0"

OKW Architects

OKW ARCHITECTS
600 W. Jackson, Suite 250
Chicago, IL 60661

N

SCALE: 1" = 40'

0 10' 20' 40'

PROJECT

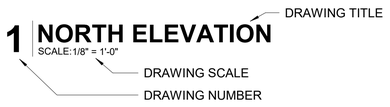
THIS EXHIBIT IS DIAGRAMMATIC ONLY AND IS INTENDED ONLY TO SHOW THE GENERAL LOCATION OF THE PREMISES AND AN APPROXIMATE DEPICTION OF THE RETAIL/OFFICE BUILDING AND THE PROJECT AS THEY ARE CURRENTLY EXPECTED TO EXIST AS OF THE DATE THE PREMISES ARE DELIVERED TO TENANT. THIS EXHIBIT DOES NOT CONTAIN THE EXACT LEASING LINES OF THE PREMISES NOR DOES IT DEPICT THE EXACT LOCATION OF ANY OTHER TENANTS OR OCCUPANTS OF THE RETAIL/OFFICE BUILDING OR THE PROJECT. FURTHER, REFERENCES TO STORE NAMES ON THIS EXHIBIT SHALL IN NO MANNER CONSTITUTE ANY KIND OF REPRESENTATION AS TO PRESENT OR FUTURE OCCUPANCY OF SPACES AT THE RETAIL/OFFICE BUILDING BY SUCH STORES. THIS EXHIBIT IS NOT A REPRESENTATION OR WARRANTY THAT THE RETAIL/OFFICE BUILDING OR THE PROJECT WILL REMAIN AS DEPICTED, NOR AS TO ANY FUTURE OCCUPANCY OF SPACES AT THE RETAIL/OFFICE BUILDING OR THE PROJECT.

MDG

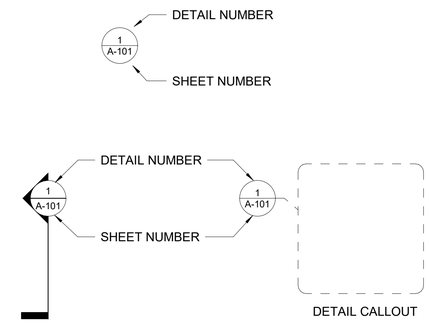
ONE WINNETKA MIXED-USE DEVELOPMENT
515 LINCOLN AVENUE, WINNETKA, IL 60093
June 30, 2025 Project #: 21077

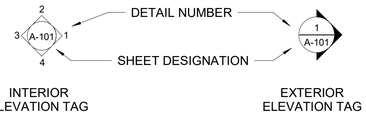
LOD_1

DRAWING TITLE TAG

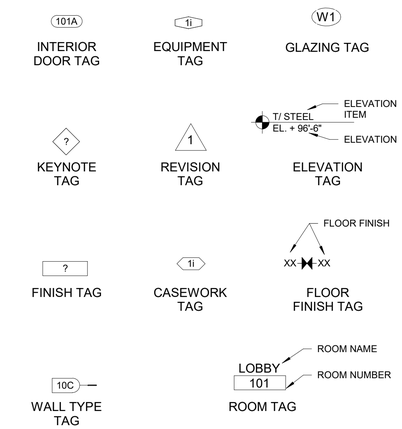


DETAIL TAGS





TAG SYMBOLS



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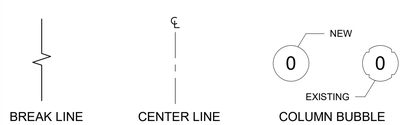

ABBREVIATIONS

AB	anchor bolt
ABV	above
AD	area drain
AFF	above finish floor
ALUM	aluminum
ANN	annunciator
APROX	approximate
ARCH	architectural
AUTO	automatic
AVE	avenue
AWG	American wire gauge
B/	bottom of
BIT	bituminous
BLDG	building
CL	center line
CLG	ceiling
CM	centimeter
CMU	concrete masonry unit
CO	cleanout
COL	column
CONC	concrete
CONSTR	construction
CONT	continuous
COORD	coordinate
CNTR	center
CU	cubic
CW	cold water
DBL	double
DEG	degree
DEMO	demolish
DEPT	department
DET	detail
DIA	diameter
DIAG	diagonal
DN	down
DS	downspout
DWG	drawing
E	East
ELEC	electrical
EM	emergency
EXIST	exis ing
EXT	exterior
F/	face of
FA	fire alarm
FCO	floor clean out
FD	floor drain
FNDN	foundation
FF	finish floor
FLR	floor
FT	foot (feet)
FTG	footing
FURR	furring
GA	gauge
GALV	galvanized
GND	ground
GWB	gypsum wall board
GYP	gypsum
HB	hose bib
HDWH	hardwood
HDWR	hardware
HR	hour
HT	height
HW	hot water
ID	inside diameter
IN	inches
INCL	include(d)(ing)
INSUL	insulation
INT	interior
ISO	isolation
KO	knockout
KIT	kitchen
LAM	laminate(s)
LAV	lavatory
LB(S)	pound(s)
LL	landlord
LT	light
M	meter
MAINT	maintenance
MAS	masonry
MAX	maximum
MECH	mechanical
MTL	metal
MEZZ	mezzanine
MFR	manufacturer
MIN	minimum
MISC	miscellaneous
MM	millimeter
MO	masonry opening
MULL	mullion
N	North
N.I.C.	not in contract
NO.	number
NOM	nominal
NTS	not to scale
OA	overall
OC	on center
OD	outside diameter
OH	overhead
OPNG	opening
PL	plate
P-LAM	plastic laminate
PLBG	plumbing
PLUMB	plumbing
PNL	panel
PNT	paint
PT	pressure treated
QT	quarry tile
R	riser
RD	roof drain
REF	refrigerator
REINF	reinforced
REQ'D	required
REV	revision
RFG	roofing
RM	room
RMV	remove
RO	rough opening
S	South
SAFB	sound attenuation fire
batt	insulation
SAN	sanitary
SECT	section
SF	square foot (feet)
SIM	similar
SQ	square
SS	stainless steel
STC	sound transmission class
STD	standard
STL	steel
STRUCT	structural
T	tread
T/	top of
T&B	top and bottom
T&G	tongue and groove
TEL	telephone
TEMP	tempered
TOPO	topography(ic)
TYP	typical
UNO	unless noted otherwise
UTIL	utility
VAC	vacuum
VTR	vent through roof
VIF	verify in field
W	West
W/	with
W/O	without
WC	water closet
WH	water heater
WIN	window
WWF	welded wire fabric
YD	yard

[solidcore]

736 ELM STREET, WINNETKA, IL 60093

TENANT AREA (AREA OF WORK) : **2,271 SF**

CONTACTS

ARCHITECT:

DxU, ARCHITECTS
412 S.WELLS ST.
SECOND FLOOR
CHICAGO, IL 60607
(P) 312.955 0334

EM LY L NDSEY
ASSOCIATE PR NC PAL
ELINDSEY@DXUARCH.COM

CLIENT:

SOLIDCORE
1735 N LYNN ST
SUITE 650
ARL NGTON, VA 22209
(P) 202.915 5740

LOU BENEDETTO
D RECTOR OF DESIGN
LOU@SOLIDCORE.CO

KEIRA FITZGERALD
MANAGER, CONSTRUCTION AND DEVELOPMENT
KEIRA.FITZGERALD@SOLIDCORE.CO

MEP ENGINEER:

CASE ENG NEERING, INC.
796 MERUS CT.
ST. LOUIS, MO 63026
(P) 636.349.1600

LUKE WILD
MANAGER OF MECH.
ENGINEERING
(P) 314.570.7920
LWILD@CASEENGINEERING.COM

LANDLORD:

MURPHY DEVELOPMENT GROUP
CHRIS HORNEY
CHORNEY@MURPHYRES.COM
248.721.7927

DRAWING INDEX

NO	SHEET NAME	2025/12/02 - ISSUED FOR SPECIAL USE PERMIT
01 - TITLE		
T1-01	TITLE SHEET	•
T1-02	EXISTING SITE AND PARKING PLAN (FOR REFERENCE ONLY)	•
04 - ARCHITECTURAL		
A1-10	GROUND FLOOR EXISTING PLAN	•
A1-21	GROUND FLOOR PLAN	•
A4-10	EXTERIOR ELEVATIONS	•

SCOPE OF WORK

FITNESS STUDIO INTERIOR BU LD OUT N A DEMISED RETAIL SPACE. WORK TO NCLUDE DEMOLITION, THE NSTALLATION OF CE LINGS, PARTITIONS, DOORS, INTERIOR F NISHES MECHANICAL WORK, ELECTRICAL WORK AND PLUMB NG WORK FOR A NEW HEALTH & FITNESS ESTABLISHMENT.

BUILDING CODES

*	BUILDING	2021 INTERNATIONAL BUILDING CODE WITH WINNETKA AMENDMENTS
*	EXISTING	2021 INTERNATIONAL EXISTING BUILDING CODE WITH WINNETKA AMENDMENTS
*	MECHANICAL	2021 INTERNATIONAL MECHANICAL CODE WITH WINNETKA AMENDMENTS
*	ELECTRICAL	2020 NATIONAL ELECTRICAL CODE WITH WINNETKA AMENDMENTS
*	PLUMBING	2014 ILLINOIS PLUMBING CODE WITH WINNETKA AMENDMENTS
*	FIRE PREVENTION	2021 INTERNATIONAL FIRE CODE WITH WINNETKA AMENDMENTS
*	ENERGY	2021 ILLINOIS ENERGY CONSERVATION CODE
*	GAS	2021 INTERNATIONAL FUEL GAS CODE WITH WINNETKA AMENDMENTS
*	LIFE SAFETY	2024 LIFE SAFETY CODE (NFPA 101) WITH WINNETKA AMENDMENTS
*	ACCESSIBILITY	2018 ILLINOIS ACCESSIBILITY CODE
*	AS AMENDED WITH ALL STATE AMENDMENTS & CODES	

CODE MATRIX

ZONING CLASSIFICATION:	C2, GENERAL RETAIL COMMERCIAL DISTRICT
OCCUPANCY CLASSIFICATION:	B, BUSINESS
BUILDING HEIGHT:	EXISTING TO REMAIN, (1 STORY)
BUILDING AREA:	EXISTING TO REMAIN
TENANT AREA OF WORK:	2,271 SF
SEPARATED USES:	EAST ADJACENT: BUSINESS USE, NO SEPARATION REQUIRED (EXISTING TO REMAIN) WEST ADJACENT: BUSINESS USE, NO SEPARATION REQUIRED (EXISTING TO REMAIN)
CONSTRUCTION TYPE:	-A, FULLY SPRINKLERED

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
WINNETKA

736 ELM STREET,
WINNETKA, IL 60093

NO.	DATE	ISSUE
	2025-12-02	ISSUED FOR SPECIAL USE PERMIT

PROJECT NUMBER: 25-312

DRAWN BY: SM APPROVED BY: EL

SEAL

LICENSED ARCHITECT
ERIC STYER
001-020268
STATE OF ILLINOIS

SIGNATURE 12-02-2025

ISSUED FOR SPECIAL USE PERMIT

SHEET TITLE & NUMBER

TITLE SHEET

T1-01

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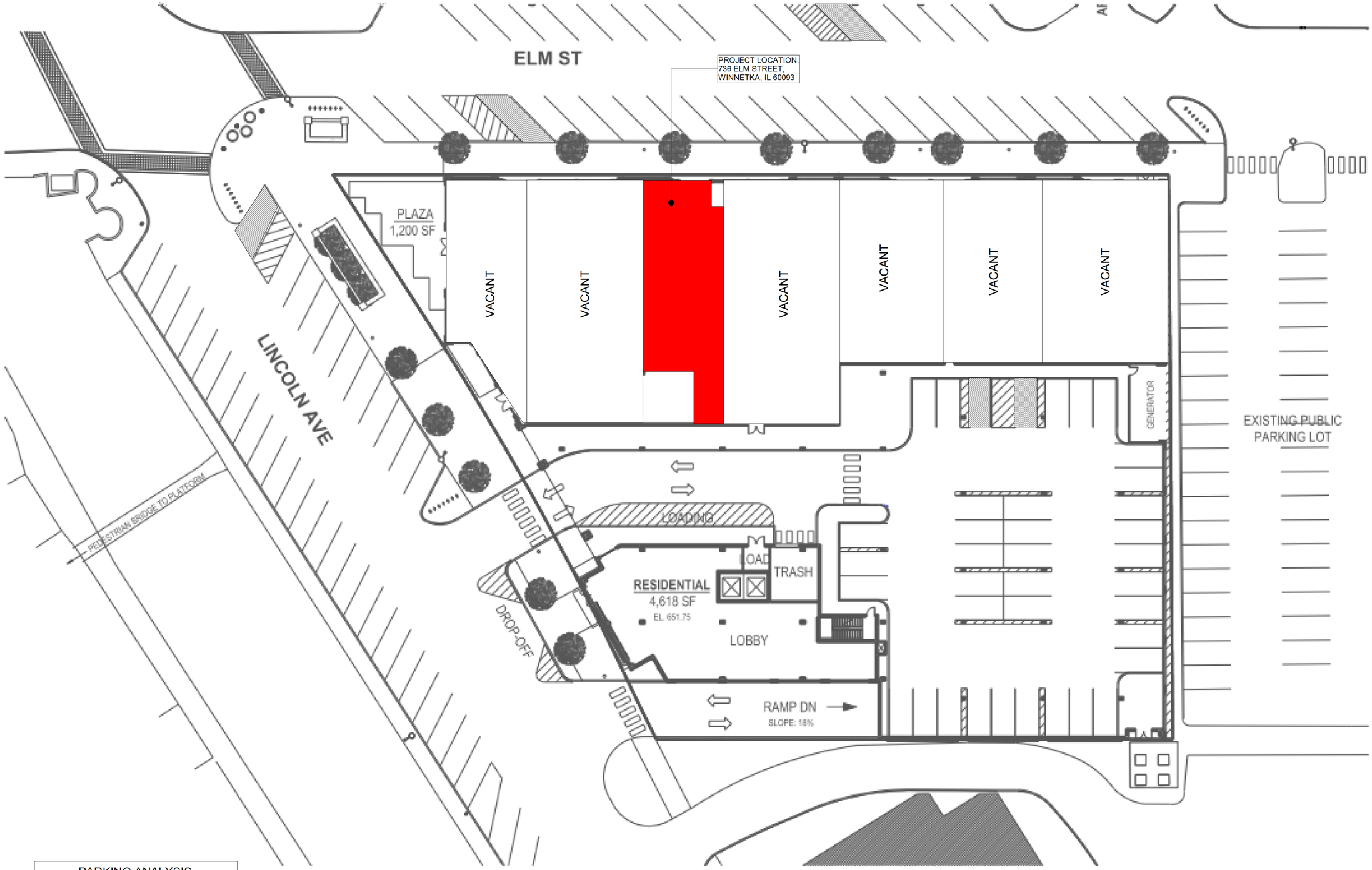

PARKING ANALYSIS		
	ACCESSIBLE SPACES	= 5

* ANALYSIS CONFINED TO SPACES WITHIN THE BLOCK ON WHICH THE SITE IS LOCATED.

N
1 EXISTING SITE AND PARKING PLAN (FOR REFERENCE ONLY)
NTS

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CL ENT

[solidcore]

PROJECT

[solidcore]
WINNETKA

736 ELM STREET,
WINNETKA, IL 60093

NO.	DATE	ISSUE
	2025-12-02	ISSUED FOR SPECIAL USE PERMIT

PROJECT NUMBER: 25-312

DRAWN BY: SM APPROVED BY: EL

SEAL

LICENSED ARCHITECT
ERIC STYER
001-020288
STATE OF ILLINOIS

SIGNATURE 12-02-2025

ISSUED FOR SPECIAL USE PERMIT

SHEET TITLE & NUMBER

EXISTING SITE AND PARKING PLAN (FOR REFERENCE ONLY)

T1-02

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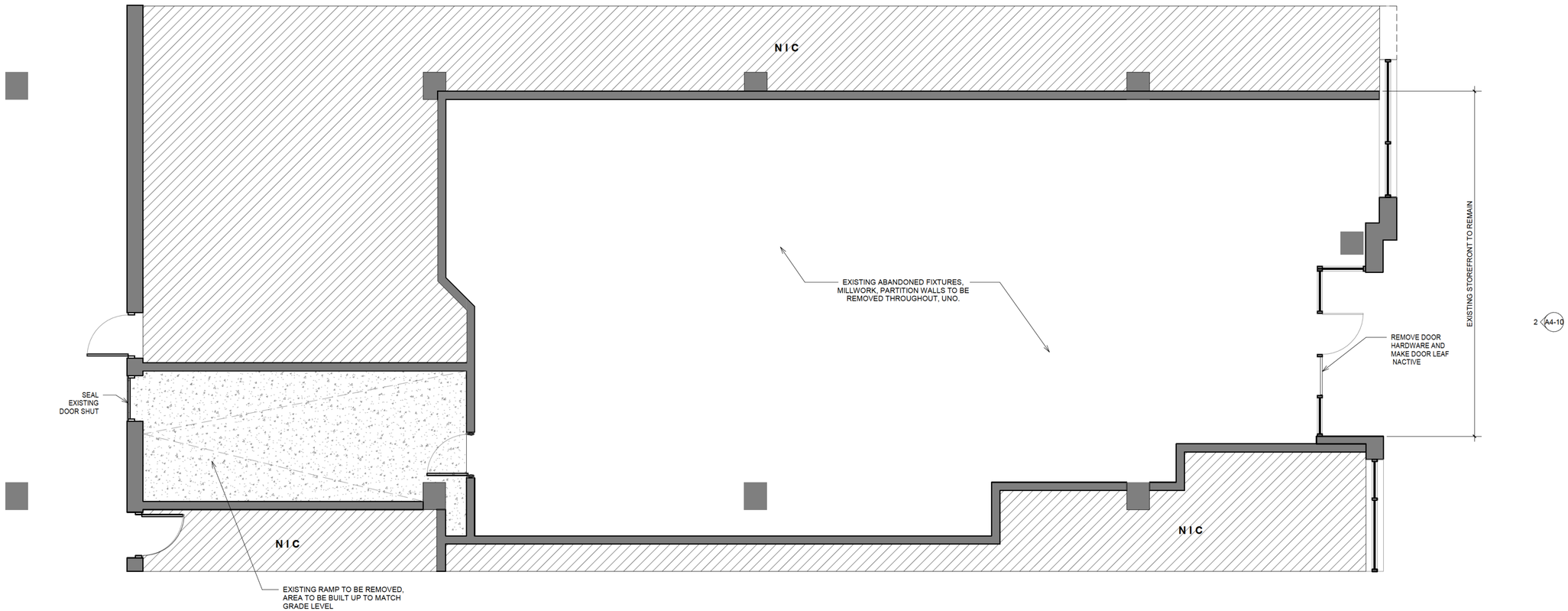
LEGEND

- EXISTING PARTITIONS & EXTERIOR WALLS TO REMAIN
- NON-BEARING PARTITIONS, FIXTURES, SOFFITS, EQUIPMENT, DOORS, ETC. TO BE REMOVED
- EXISTING PARTIAL HEIGHT PARTITION WALLS TO REMAIN
- N.I.C.

NOTE: GC TO PROTECT LANDLORD FINISHES DURING DEMOLITION AND CONSTRUCTION.



1 GROUND FLOOR EXISTING PLAN
SCALE: 1/4" = 1'-0"

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
WINNETKA

736 ELM STREET,
WINNETKA, IL 60093

NO.	DATE	ISSUE
	2025-12-02	ISSUED FOR SPECIAL USE PERMIT

PROJECT NUMBER: 25-312

DRAWN BY: SM APPROVED BY: EL

SEAL

LICENSED ARCHITECT
ERIC STYER
001-020288
STATE OF ILLINOIS

SIGNATURE 12-02-2025

ISSUED FOR SPECIAL USE PERMIT

SHEET TITLE & NUMBER

GROUND FLOOR EXISTING PLAN

A1-10

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EGRESS

AUTOMATIC FIRE PROTECTION SYSTEM: YES

EGRESS REQUIREMENTS	MAX. ALLOWED	PROVIDED
EXIT TRAVEL DISTANCE:	100'-0"	98'-10"
EGRESS DOOR WIDTH:	32" MIN.	36"
EGRESS CORRIDOR WIDTH:	36" MIN.	36"
MIN MUM NUMBER OF EXITS:	1	1

OCCUPANT LOAD

STORAGE / OCC TYPE 1
227 SF / 300 SF = 1 OCCUPANTS

BUSINESS / OCC TYPE 2
364 SF / 150 SF = 3 OCCUPANTS

EXERCISE R. / OCC TYPE 3
1206 SF / 50 SF = 25 OCCUPANTS

NOT INCLUDED IN OCCUPANT LOAD

RESTROOMS
124 SF

TOTAL: = 29 OCCUPANTS

SQUARE FOOTAGE

STORAGE = 227 SF
BUSINESS = 364 SF
EXERCISE ROOM = 1206 SF
RESTROOMS = MEN'S (62 SF) + WOMEN'S (62 SF) = 124 SF

TOTAL: 1921 SF

SCHEDULES

DOOR, FRAME AND HARDWARE SCHEDULE

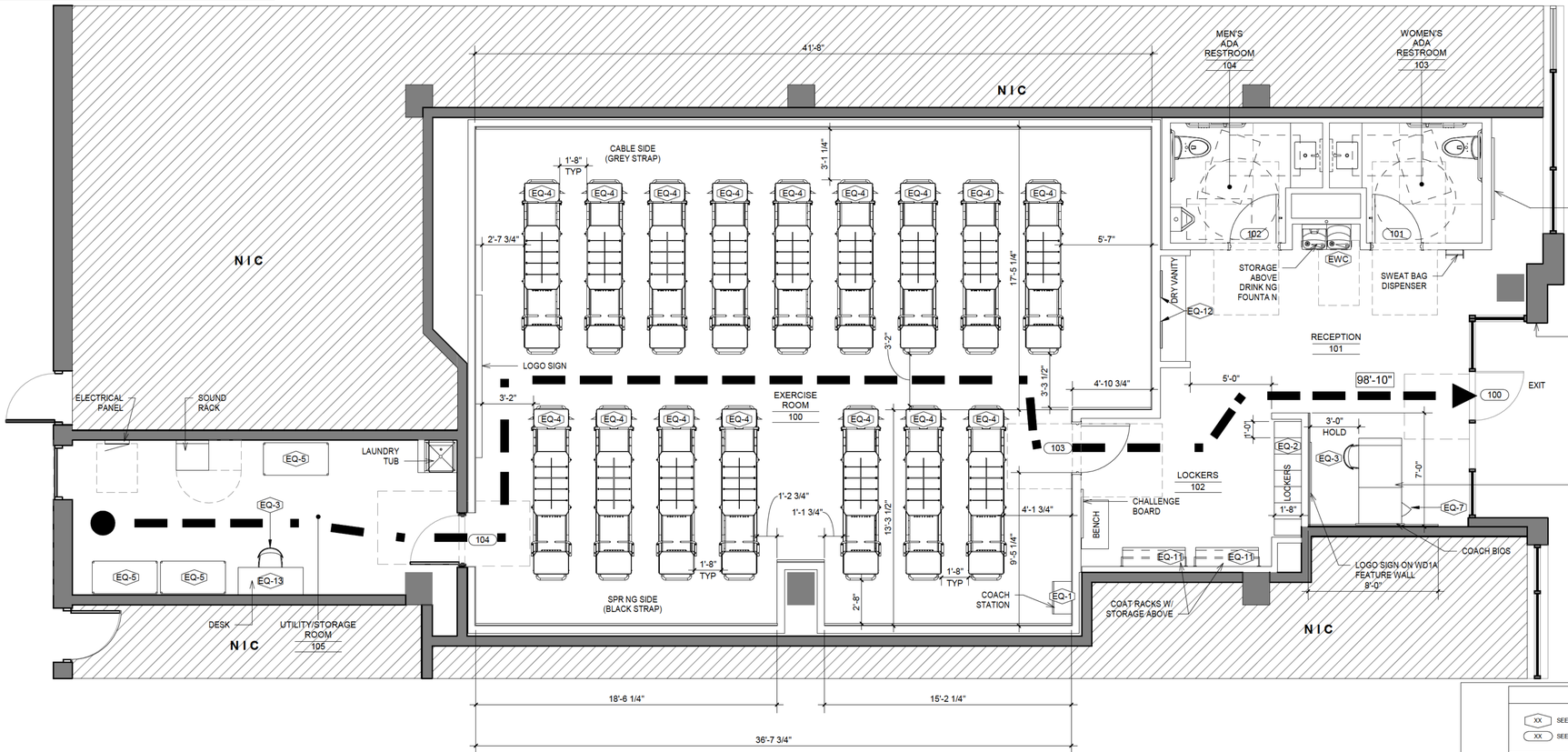
NUMBER	LOCATION	NOMINAL SIZE			MATERIALS	FIN.	FRA.	FRA. TYPE	DOOR			HARDWARE			REMARKS
		W	H	TH					TYPE	PRVD	INST	TYPE	PRVD	INST	
100	ENTRY(EXISTING)	3' - 0"	7' - 8"	0' - 1 3/4"	EX	EX	EX	EX	EX	EX	EX	3	EX	EX	
101	WOMEN S ADA RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3	P3	1	A	GC	GC	1	GC	GC	
102	MEN S ADA RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3	P3	1	A	GC	GC	1	GC	GC	
103	EXERCISE AREA	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3 / P4	P3 / P4	1	A	GC	GC	2	GC	GC	
104	STORAGE/UTILITY	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3 / P4	P3 / P4	1	A	GC	GC	4	GC	GC	

DOOR TYPES

DOOR FRAME TYPES

EQUIPMENT SCHEDULE

TAG	QTY	LOCATION	DESCRIPTION	MANUFACTURER	STYLE / MODEL	SIZE	PRVD BY	INST BY	NOTE
EQ-1	1	EXERCISE AREA	WALL MOUNTED iPAD HOLDER	TFY	B07RGDK9CZ	2.7 IN (MIN.) - 7.48 IN (MAX.)	GC	GC	SEE DETAIL 1/A7-10 FOR MOUNTING DETAILS
EQ-2	1	LOCKERS	4 - TIER LOCKERS + TRIM	D&A STUDIOS	BLACK	EACH TIER: 12" W X 20" D X 72" H	OWNER	GC	SEE VENDOR CONTACT ON SHEET T1-02; EACH LOCKER INCLUDES SQUARESILVER NUMBER DISC WITH BLACK FONT & OJMAR OMBI PRO SILVER LOCK TYPE. KEYS TO BE STORED IN LOCKER # 1.
EQ-3	2	RECEPTION/UTILITY	RECEPTION CHAIR	-	-	-	OWNER	OWNER	GC TO ASSEMBLE / INSTALL
EQ-4	16	EXERCISE AREA	FITNESS MACHINES	-	SWEATLANA	-	OWNER	OWNER	OWNER TO ASSEMBLE / INSTALL. CONFIRM QUANTITY WITH OWNER
EQ-5	3	STORAGE/UTILITY	WIRE SHELVING	ULINE	H-1749-72	48" W X 18" D X 72" H	GC	GC	GC TO ASSEMBLE / INSTALL
EQ-7	1	RECEPTION	BEVERAGE COOLER	EDGESTAR	CBR9025G	15" W X 32" H	GC	GC	SEE DETAIL 4 & 5/A7-20
EQ-8	1	STORAGE/UTILITY	MOP BROOM HOLDER	BRADLEY CORP.	9953	-	GC	GC	INSTALL AT 5'-0" AFF; PROVIDE 2X FRT WOOD BLOCKING AS REQUIRED
EQ-9	1	GENERAL	13" ACRYLIC SWEAT BAG DISPENSER	SPORTS SOLUTIONS	30039-DSP	13"	OWNER	OWNER	SEE SHEET A3-11 & INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
EQ-11	2	RECEPTION	COAT RACK	D&A STUDIOS	BLACK	48"W X 80"H X 14"D	OWNER	GC	PROVIDE BLOCKING AS REQUIRED
EQ-12	2	LOCKERS	DRY BAR MIRROR	KOHLER	K-26051-BLL	20-1/16"W X 40-1/16" H X 1-3/8" D	GC	GC	PROVIDE BLOCKING AS REQUIRED- SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
EQ-13	1	STORAGE / UTILITY	DESK	COLESHOME	BLACK	48" D X 20" W X 29" H	OWNER	GC	GC TO ASSEMBLE / INSTALL



1 A4-10

SYMBOL LEGEND

XX SEE EQUIPMENT SCHEDULE
XX SEE DOOR SCHEDULE

LEGEND

- EXISTING PARTITIONS & EXTERIOR WALLS
- EXISTING WALL WITH NEW FURRING
- NEW PARTITIONS
- N.I.C.

≈ 1 GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
WINNETKA

736 ELM STREET,
WINNETKA, IL 60093

NO.	DATE	ISSUE
	2025-12-02	ISSUED FOR SPECIAL USE PERMIT

PROJECT NUMBER: 25-312
DRAWN BY: SM APPROVED BY: EL

SEAL

LICENSED ARCHITECT
ERIC STYER
001-020288
STATE OF ILLINOIS

SIGNATURE 12-02-2025

ISSUED FOR SPECIAL USE PERMIT

SHEET TITLE & NUMBER

GROUND FLOOR PLAN

A1-21

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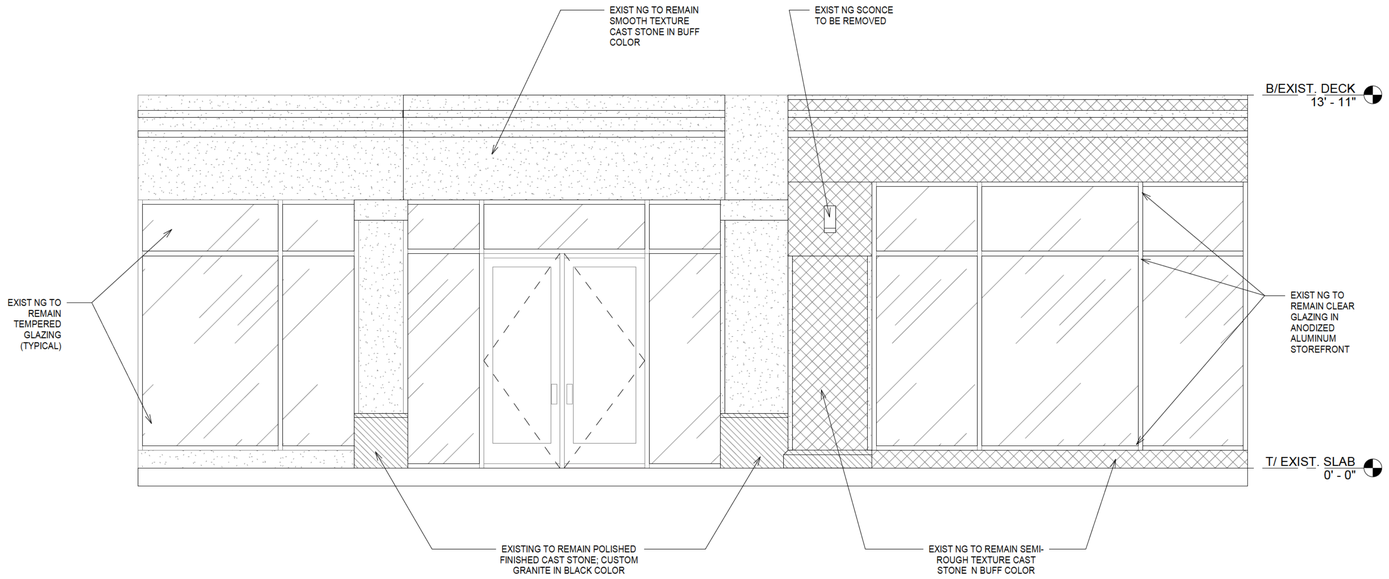
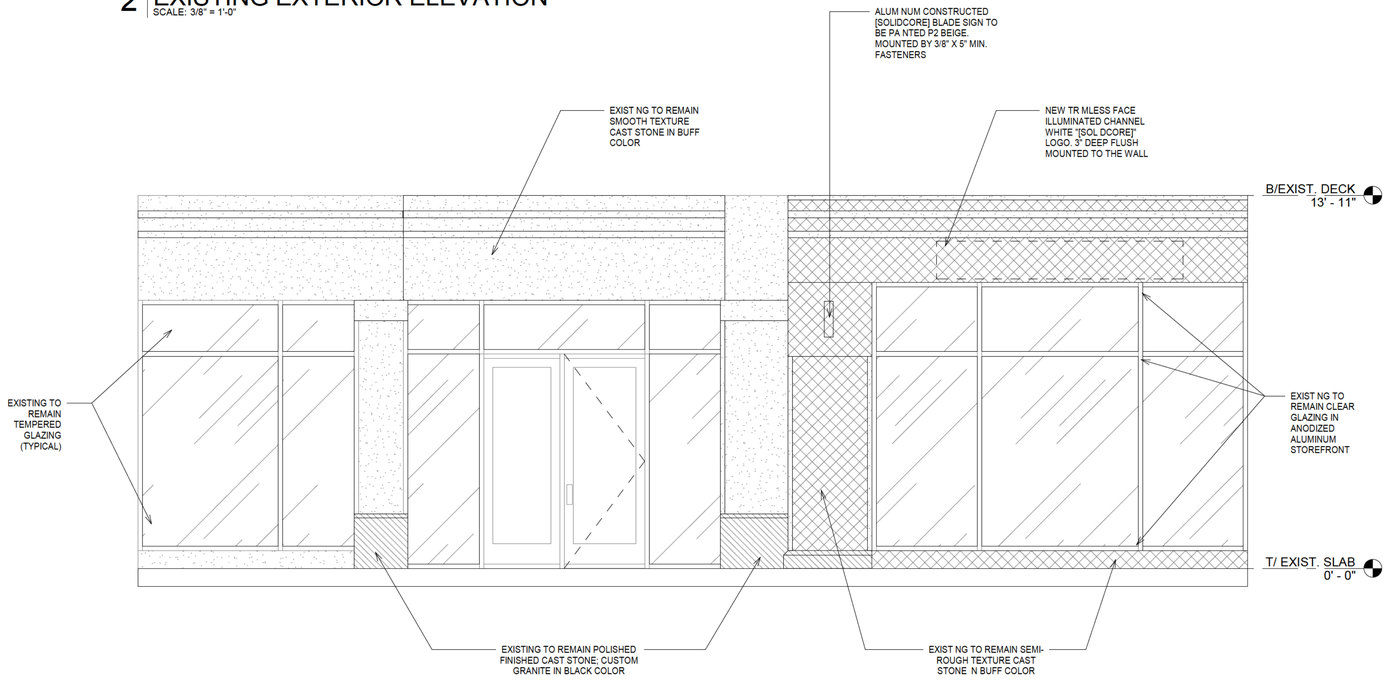
LEGEND

- EXISTING TO REMAIN SMOOTH TEXTURE CAST STONE IN BUFF COLOR
- EXISTING TO REMAIN SEMI-ROUGH TEXTURE CAST TONE IN BUFF COLOR
- EXISTING TO REMAIN POLISHED FINISHED CAST TONE; CUSTOME GRANITE IN BLACK COLOR
- EXISTING TO REMAIN CLEAR GLAZING IN ANODIZED ALUMINUM STOREFRONT
- EXISTING TO REMAIN TEMPERED GLAZING



2 EXISTING EXTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



1 PROPOSED EXTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

NOTE: SCOPE OF WORK IS LIMITED TO PROPOSED SIGNAGE THAT IS UNDER A SEPARATE PERMIT.

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
WINNETKA

736 ELM STREET,
WINNETKA, IL 60093

NO.	DATE	ISSUE
	2025-12-02	ISSUED FOR SPECIAL USE PERMIT

PROJECT NUMBER: 25-312

DRAWN BY: SM APPROVED BY: EL

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LICENSED ARCHITECT
ERIC STYER
001-020288
STATE OF ILLINOIS

SIGNATURE 12-02-2025

ISSUED FOR SPECIAL USE PERMIT

SHEET TITLE & NUMBER

EXTERIOR ELEVATIONS

A4-10

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[solidcore]
Winnetka

Exterior

Elm Street & Lincoln Avenue
Winnetka, IL. 60093

Created 04.05.25

SOUTHEAST SIGN CO.
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a partner in your brand's success

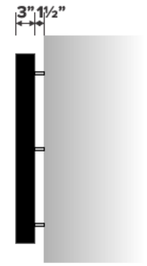
Manufacture & install (1) set of halo illuminated channel letters on wall.
- **Letter Faces** to be 1/8" thick aluminum, painted P1.
- **Returns** to be 3" deep, painted P1.
- **Letter Backs** to be 3/16" thick clear acrylic.
- **Illumination** to be 5000K white LEDs. Power supplies housed remotely.
- **Mounting** to be on 1 1/2" stand-offs.

Note: Client to provide dedicated 120v 20A circuit to within 5ft of sign location.
Note: Front of letters to be opaque.

Finishes & Vinyl

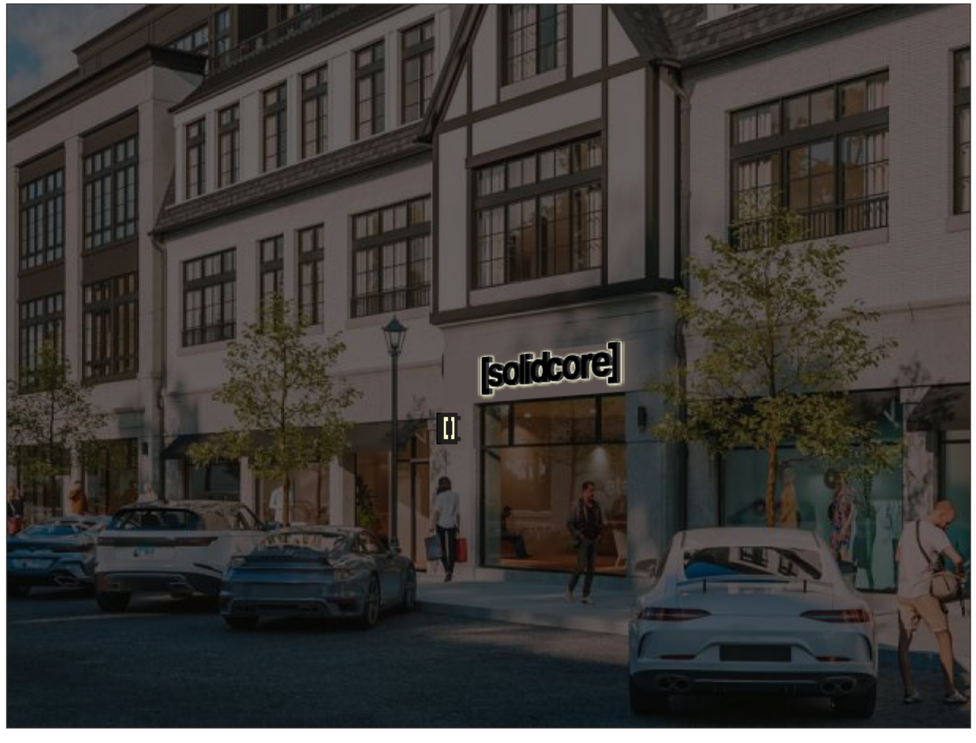
P1 — **Satin Black Paint**

1 **Halo Illuminated Channel Letters on Wall** — **Sq. Ft.:** 28.92
Scale: 1/2" = 1'-0"



S **Side View**
1/2" = 1'-0"

DV **Day View - Proposed**
Scale: N.T.S.



NV **Night View - Proposed**
Scale: N.T.S.

SOUTHEAST SIGN CO.
ELECTRICAL SIGN AND LIGHTING SPECIALISTS
5375 Hiatus Rd. • Sunrise, FL 33351
754-332-2263

[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL. 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
☐ Approved as Noted
☐ Rejected

Client Signature

Date

Notes

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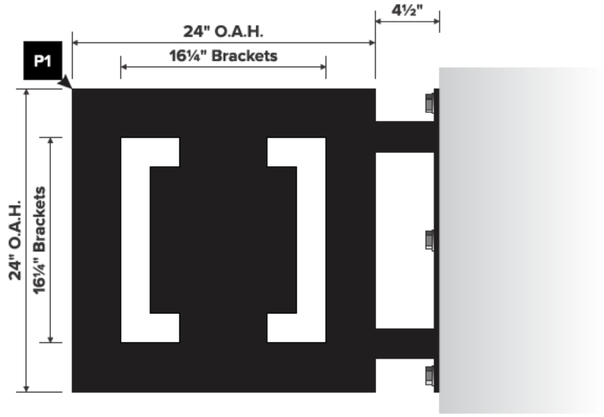
Complies with UL 48

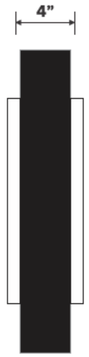
Artwork History

Date	Revision	Revision Detail	Designer
04.05.25	00	Original	JDE

Artwork Location
[solidcore]_Elm Street & Lincoln Avenue. Winnetka, IL. 60093_Exterior_250409_R00
O:\Client Files\Solidcore\Winnetka, IL\3-Design

Page 2





Manufacture & install (1) internally illuminated blade sign on wall.
- **Cabinet** to be all aluminum construction, 4" deep, painted P1.
- **Faces** to be 1/8" thick routed aluminum, painted P2 w/ 1" thick white push-thru acrylic (¾" to extend past face). Acrylic to have opaque white overlay to achieve opaque face & side illumination (see night view).
- **Illumination** to be 5000K white LEDs. Power supplies housed in cabinet.
- **Mounting** to be w/ mounting bracket & 3/8" x 5" min. fasteners.

Note: Client to provide dedicated 120v 20A circuit to within 5ft of sign location.

Note: No access into column - need to use electrical from existing light.

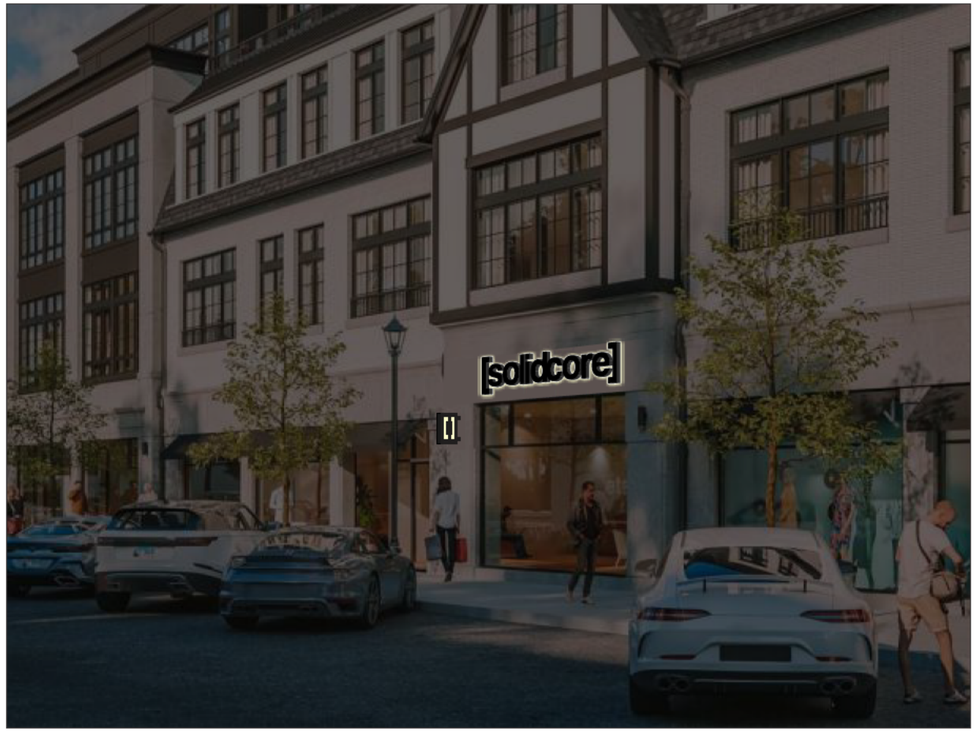
2 Illuminated Blade Sign — QTY (1)
1" = 1'-0" — **SQ. FT.:** 4

Finishes & Vinyl

P1 — **Satin Black Paint**

S Side View
1" = 1'-0"

DV **Day View - Proposed**
Scale: N.T.S.



NV **Night View - Proposed**
Scale: N.T.S.

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5375 Hiatus Rd. • Sunrise, FL 33351
754-332-2263

[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL. 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
☐ Approved as Noted
☐ Rejected

Client Signature

Date

Notes

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Complies with UL 48

Artwork History

Date	Revision	Revision Detail	Designer
04.05.25	00	Original	JDE

Artwork Location
[solidcore]_Elm Street & Lincoln Avenue. Winnetka, IL. 60093_Exterior_250409_R00
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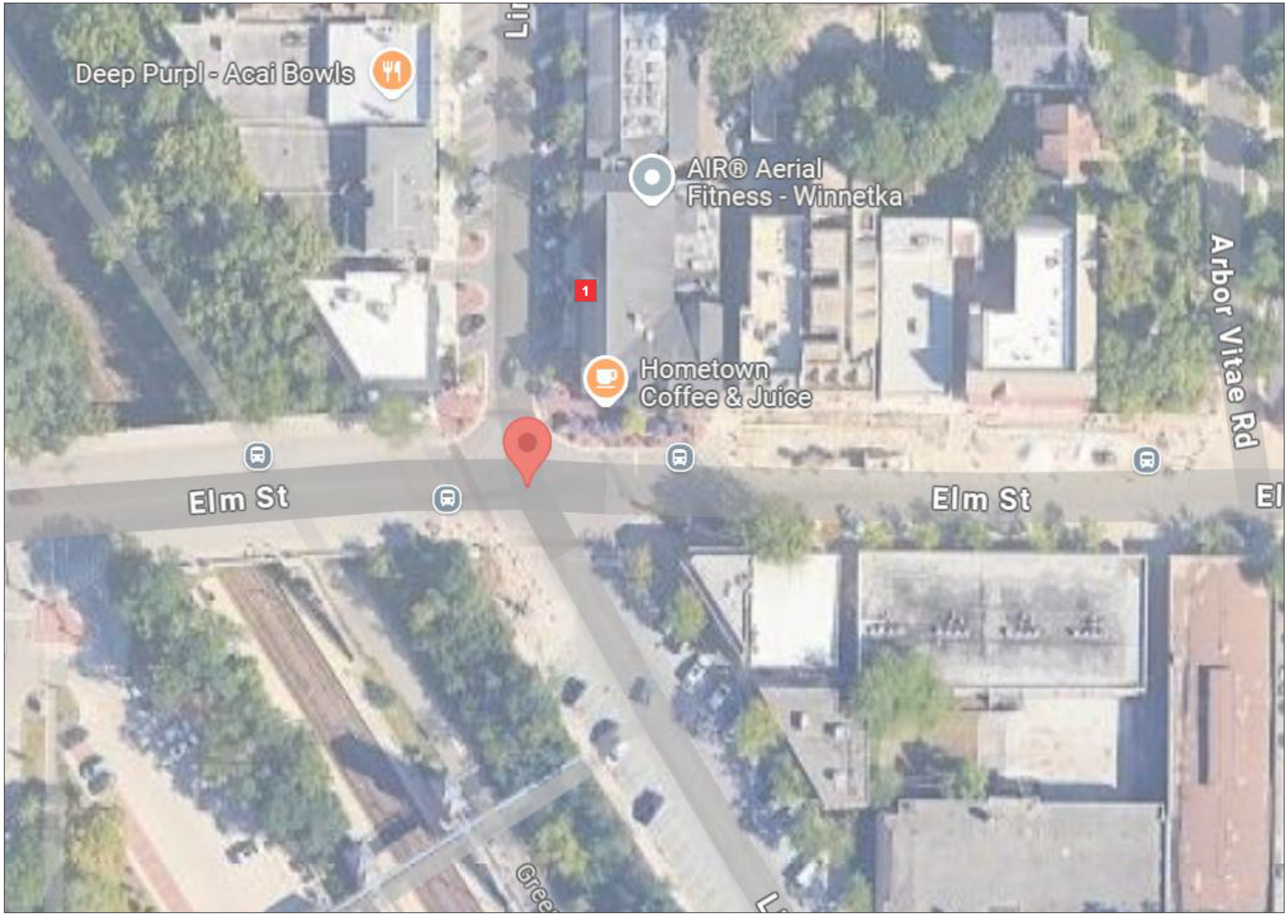
Page 3



Site Overview
N.T.S.

SOUTHEAST SIGN CO.
ELECTRICAL SIGN AND LIGHTING SPECIALISTS
5375 Hiatus Rd. • Sunrise, FL 33351
754-332-2263

[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL. 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

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Artwork History

Date	Revision	Revision Detail	Designer
04.05.25	00	Original	JDE

Artwork Location
[solidcore]_Elm Street & Lincoln Avenue. Winnetka, IL. 60093_Exterior_250409_R00
O:\Client Files\Solidcore\Winnetka, IL\3-Design

Page 4

[solidcore]

Winnetka

Interior

Elm Street & Lincoln Avenue
Winnetka, IL. 60093

Revision 12.22.25

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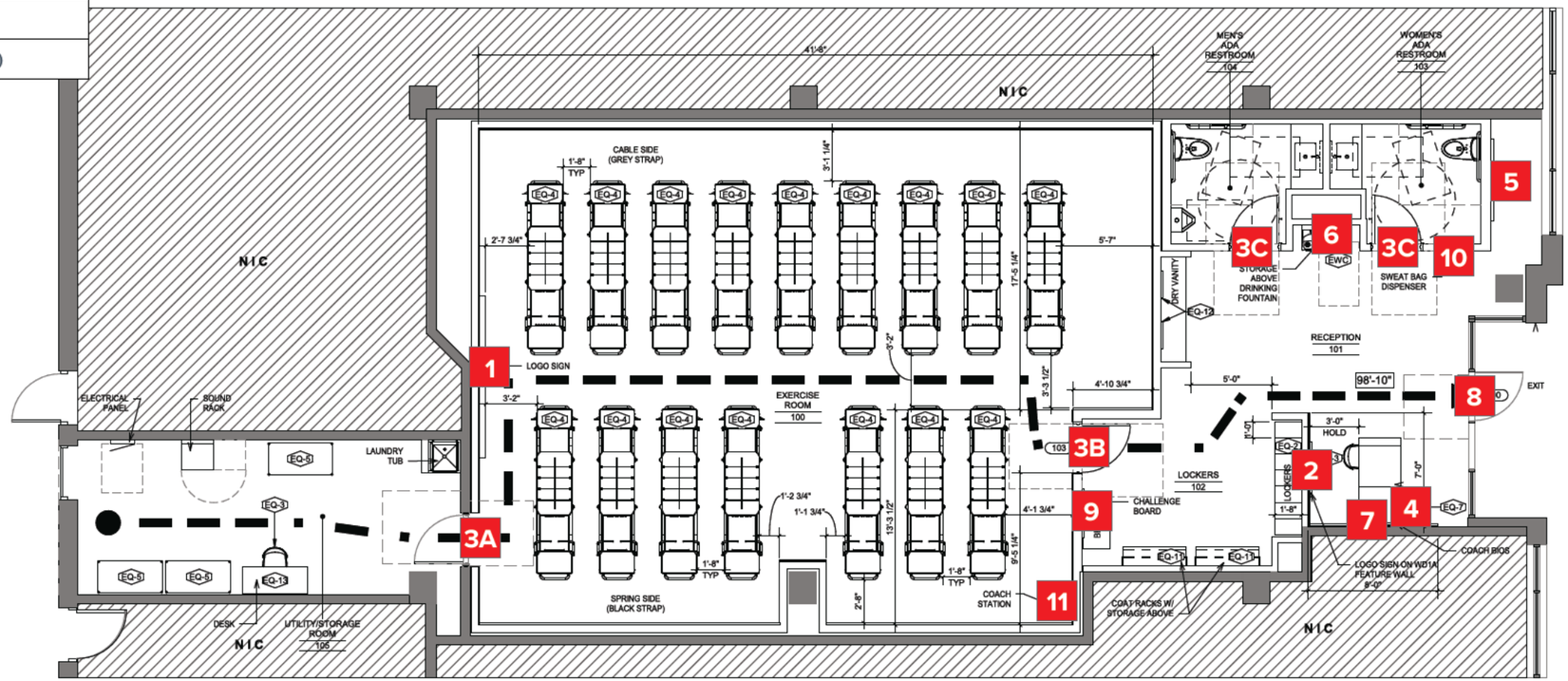
1	Studio Sign - Back Wall
2	Reception Area Sign
3	Door Vinyl Graphics
4	Refrigerator Vinyl Graphics
5	Brackets
6	11” X 17” Snap Frames
7	8 1/2” X 11” Snap Frames
8	Front Door Vinyl Graphics
9	Challenge Board
10	Sweat Bag Dispenser
11	AED Sign Panel
12	Floor Vinyl (Not Shown)



Site Overview
N.T.S.

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ELECTRICAL SIGN AND LIGHTING SPECIALISTS
5375 Hiatus Rd. • Sunrise, FL 33351
754-332-2263

[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

- ☐ Approved
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- ☐ Rejected

Client Signature

Date

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LISTED MET c US Complies with UL 48

Artwork History

Date	Revision	Revision Detail	Designer
12/19/25	00	Original	JDE
12.22.25	R1	Brackets location revised.	LN

Artwork Location
Solidcore_Winnetka, IL._251477_Interior_R1
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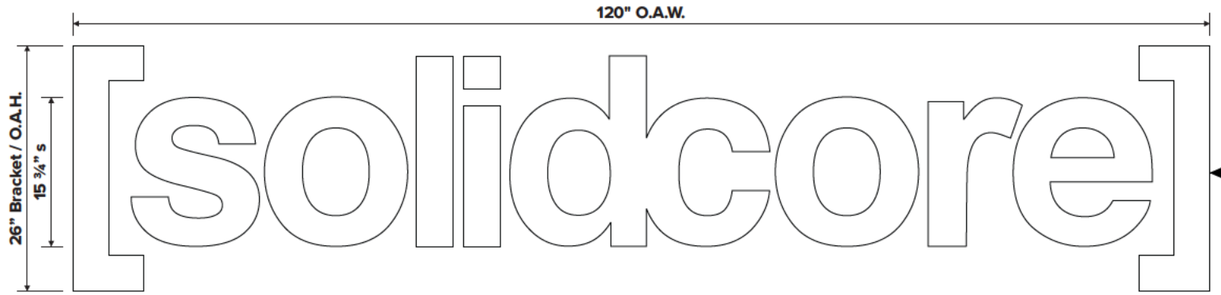
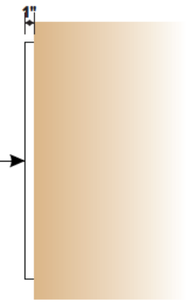
Page 2

Sign Type S1-ST-10-NI

10ft Wide Non-Illuminated Studio Sign





Manufacture & install (1) non-illuminated FCO acrylic lettersets. Letters to be 1" thick acrylic, painted P1. Letters mounted flush to wall w/ pins & silicone.

Finishes

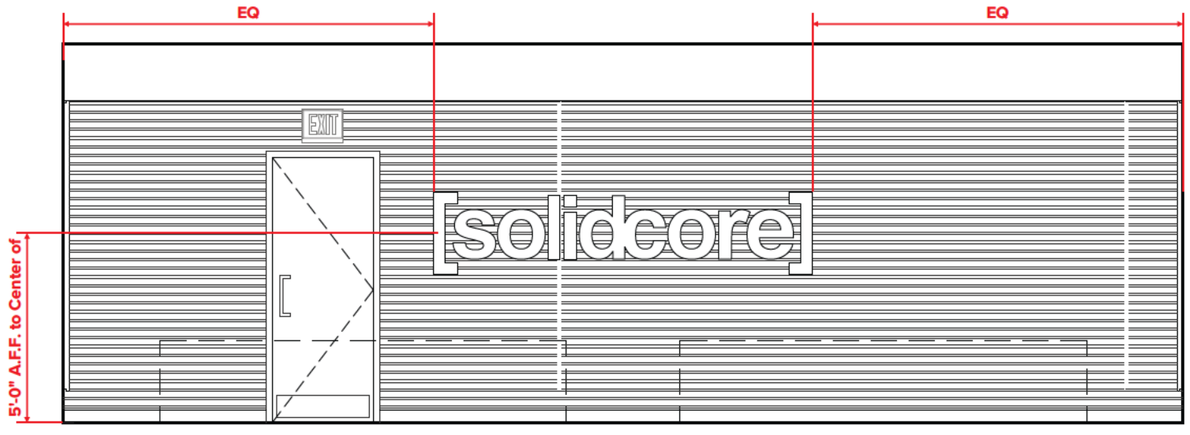
P1 — Satin White Paint

1 **S1-ST-10-NI -** Non-Illuminated FCO Acrylic Studio Sign — **Sq. Ft.:** 21.6

Scale: 3/4" = 1'-0"

S **Side View**

3/4" = 1'-0"



P **Proposed Installation With Door**

Scale: 3/8" = 1'-0"

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ELECTRICAL SIGN AND LIGHTING SPECIALISTS
5375 Hiatus Rd. • Sunrise, FL 33351
754-332-2263

[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
☐ Approved as Noted
☐ Rejected

Client Signature

Date

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Complies with UL 48

Artwork History

Date	Revision	Revision Detail	Designer
12/19/25	00	Original	JDE
12.22.25	R1	Brackets location revised.	LN

Artwork Location

Solidcore_Winnetka, IL._251477_Interior_R1
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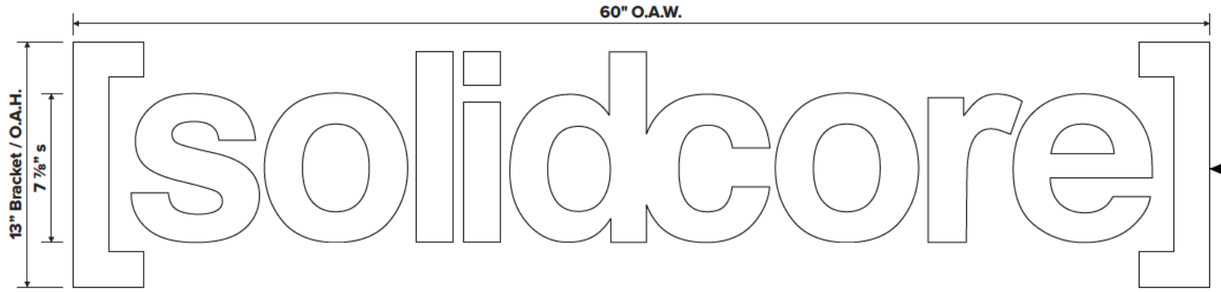
Page 3

Sign Type S2-RE-5-NI

5ft Wide Non-Illuminated Reception Sign



Manufacture & install (1) non-illuminated FCO acrylic lettersets. Letters to be 1" thick acrylic, painted P1. Letters mounted flush to wall w/ pins & silicone.

Finishes

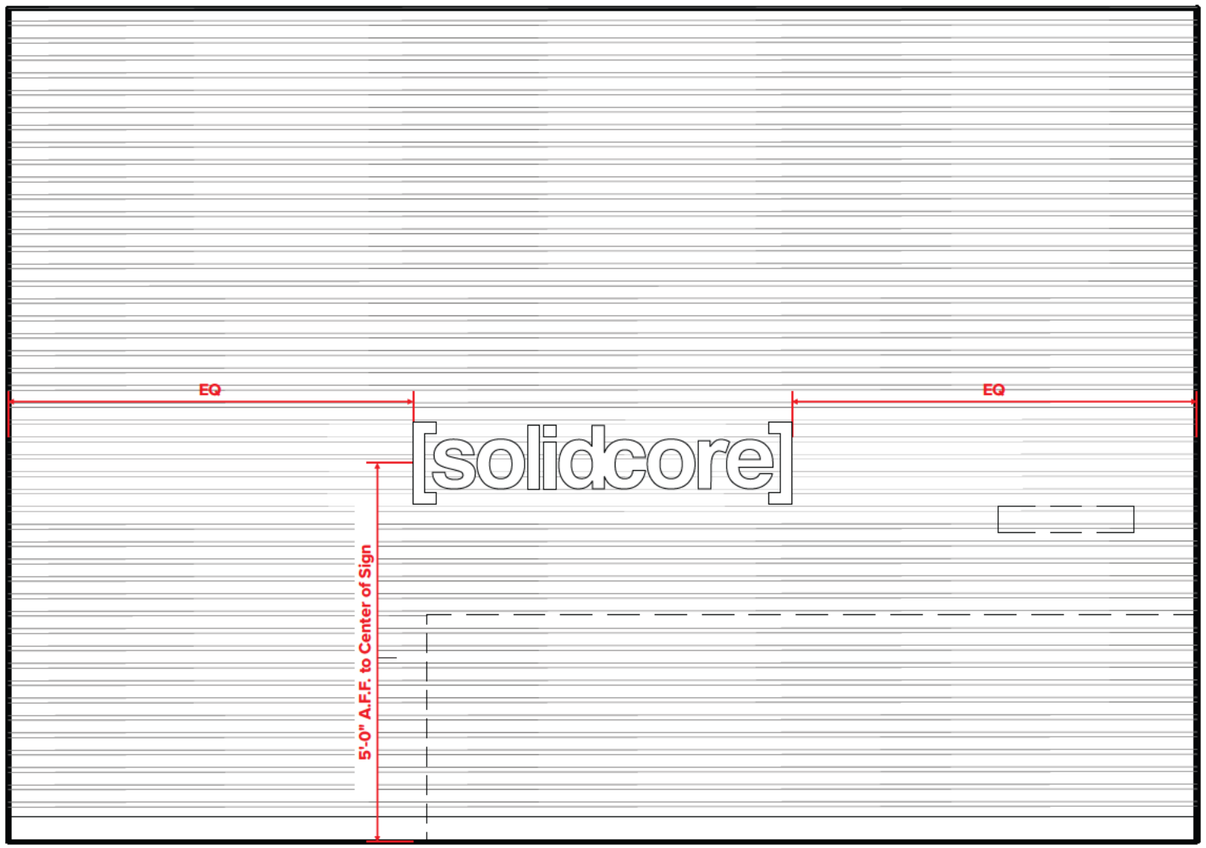
P1 — Satin White Paint

2 **S2-RE-5-NI -** Non-Illuminated FCO Acrylic Reception Area Sign — **Sq. Ft.:** 5.2

Scale: 1½" = 1'-0"

S **Side View**

1½" = 1'-0"



P **Proposed Installation**

Scale: 1/2" = 1'-0"

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5375 Hiatus Rd. • Sunrise, FL 33351
754-332-2263

[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

- ☐ Approved
- ☐ Approved as Noted
- ☐ Rejected

Client Signature

Date

Notes

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Artwork History

Date	Revision	Revision Detail	Designer
12/19/25	00	Original	JDE
12.22.25	R1	Brackets location revised.	LN

Artwork Location

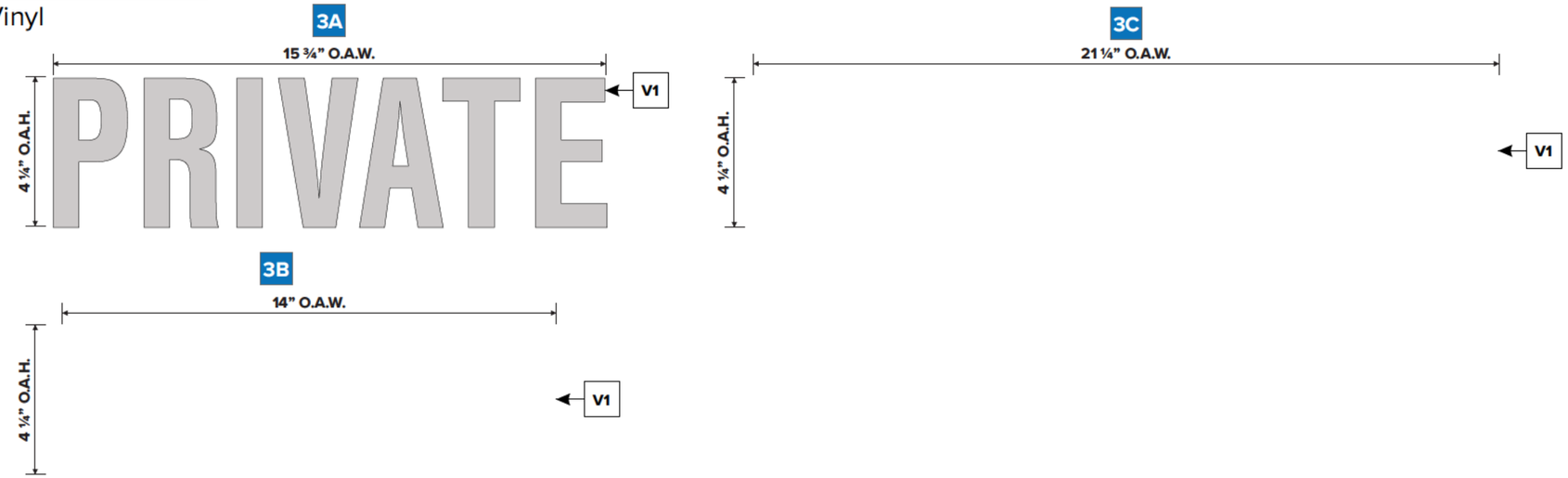
Solidcore_Winnetka, IL._251477_Interior_R1
O:\Client Files\Solidcore\Winnetka, IL\3-Design\Interior\Art

Page 4

Sign Type S3-DR-VN-W

White Door Vinyl

Font: Nimbus Sans Condensed Bold



Manufacture & install white door vinyl as shown.

Finishes

V1 — 3M 7125-10 White Opaque Vinyl

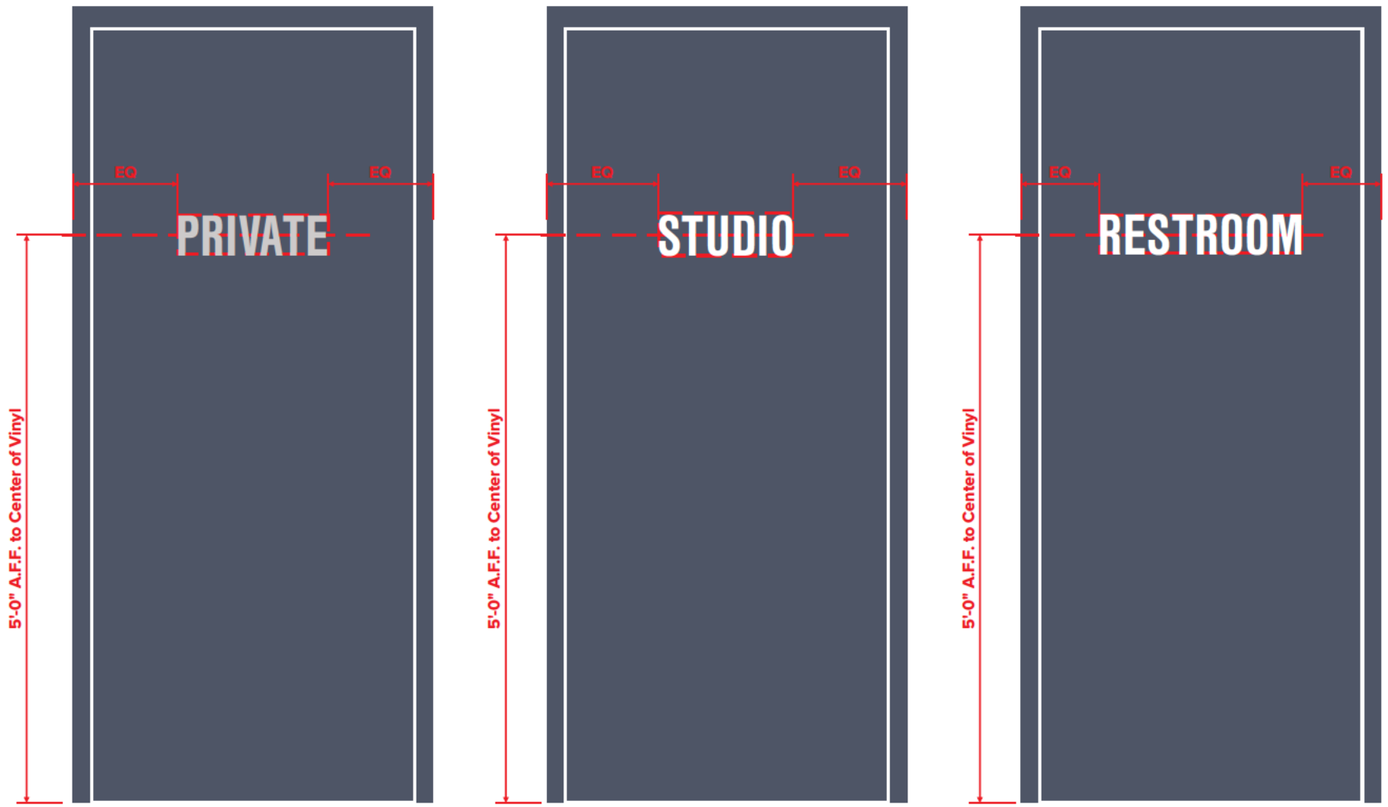
Finishes

V1 — Oracal 651-071 Grey Opaque Vinyl

3 **S3-DR-VN-W** - White Vinyl Graphics on Door
Scale: 3" = 1'-0"

3A QTY (1), **3B QTY** (1), **3C QTY** (2)

VERIFY DOOR COLOR PRIOR TO SELECTING VINYL COLOR



P **Proposed Installation**
3/4" = 1'-0"

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Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

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Client Signature

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Artwork Location
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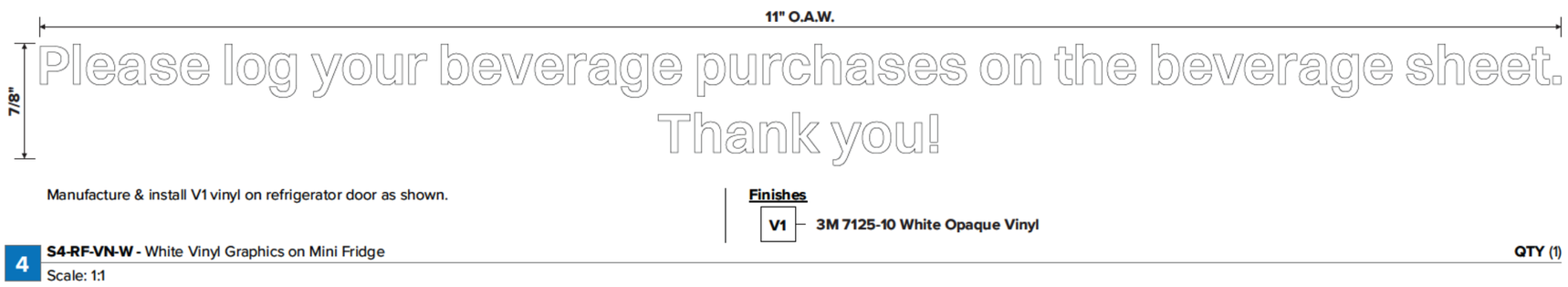
Sign Type S4-RF-VN-W

White Refrigerator Door Vinyl

Font: Switzer SemiBold



Manufacture & install V1 vinyl on refrigerator door as shown.

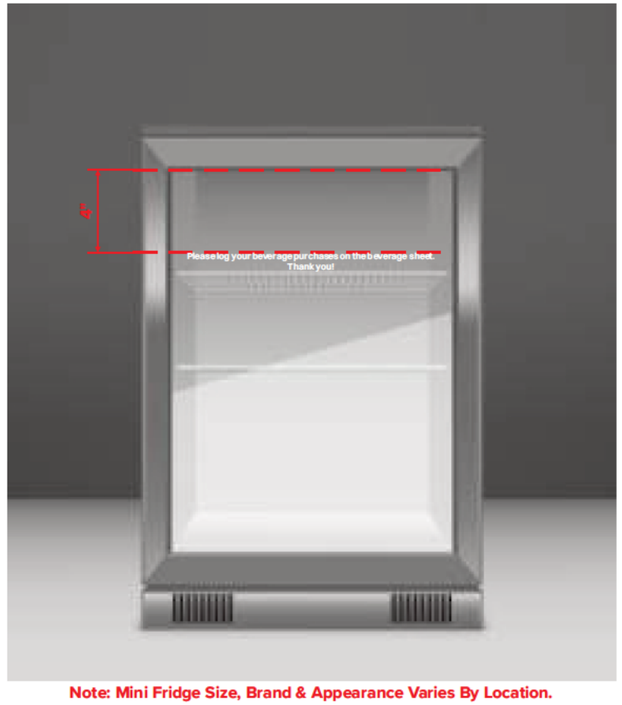
Finishes

V1 — 3M 7125-10 White Opaque Vinyl

4 **S4-RF-VN-W** - White Vinyl Graphics on Mini Fridge — QTY (1)

Scale: 1:1

Note: Vinyl Placement to be 4" Down from Top of Glass.



Note: Mini Fridge Size, Brand & Appearance Varies By Location.

P **Proposed Installation**

N.T.S.

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Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

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Artwork Location
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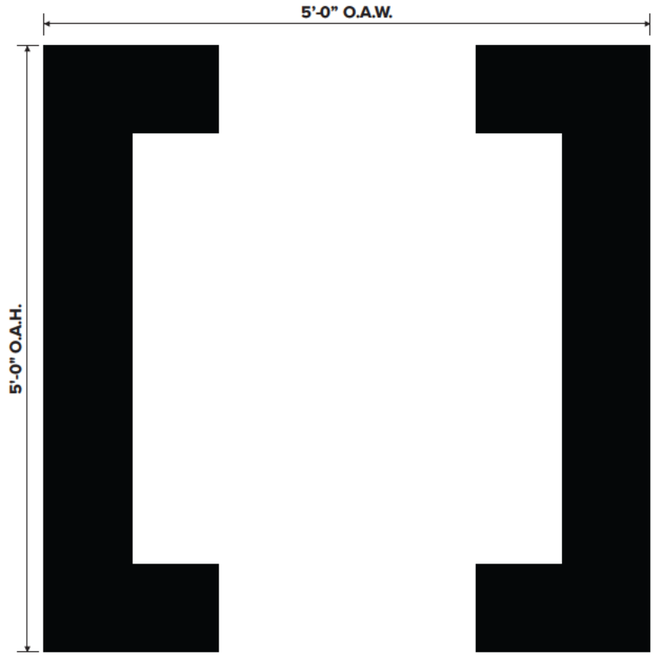
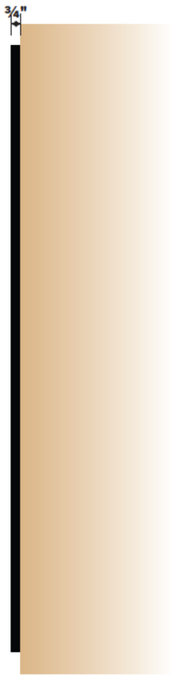
Page 6

Sign Type S5-BR-5-NI-B

5ft Non-Illuminated Black Brackets

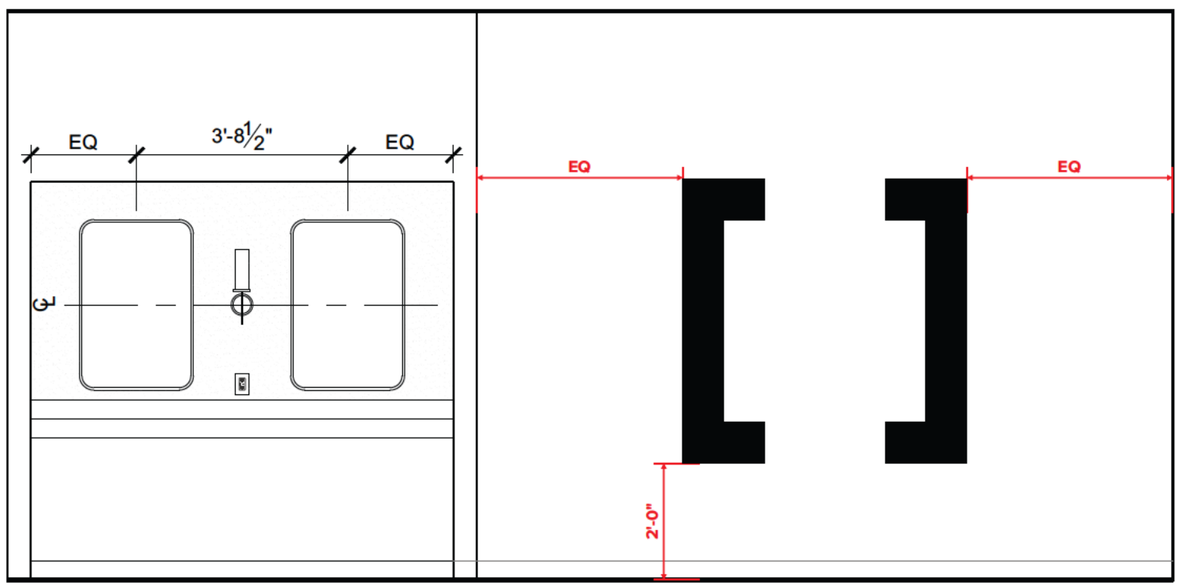




Manufacture & install (1) non-illuminated FCO acrylic brackets. Brackets to be 3/4" thick black acrylic. Brackets mounted flush to wall w/ pins & silicone.

5 **S5-BR-5-N-B** - Non-Illuminated FCO Acrylic Brackets **Sq. Ft.:** 25
Scale: ¾" = 1'-0"

S **Side View**
¾" = 1'-0"



P **Proposed Installation**
⅜" = 1'-0"

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[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
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☐ Rejected

Client Signature

Date

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12.22.25	R1	Brackets location revised.	LN

Artwork Location
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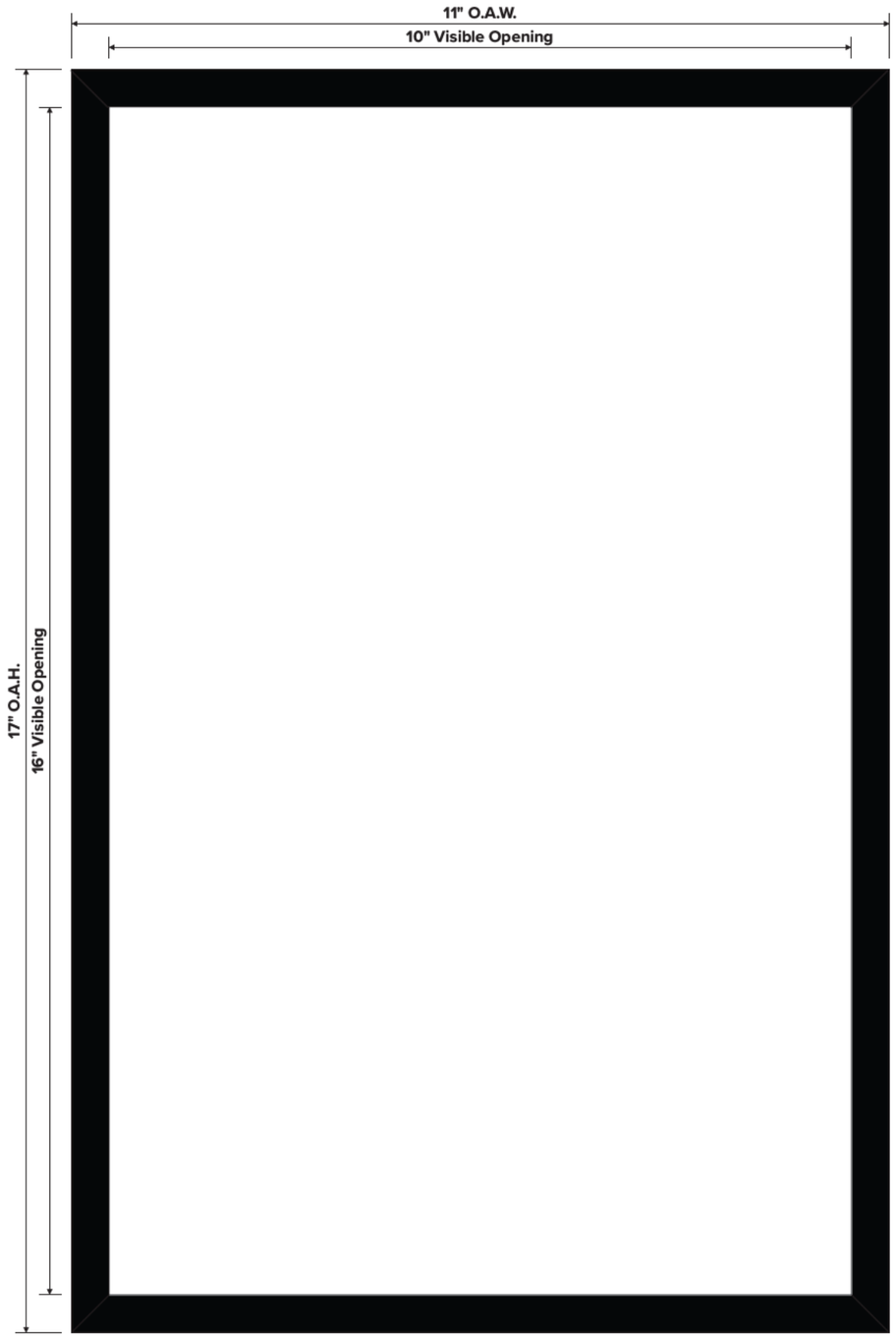
Page 7

Sign Type S6-FR1-B

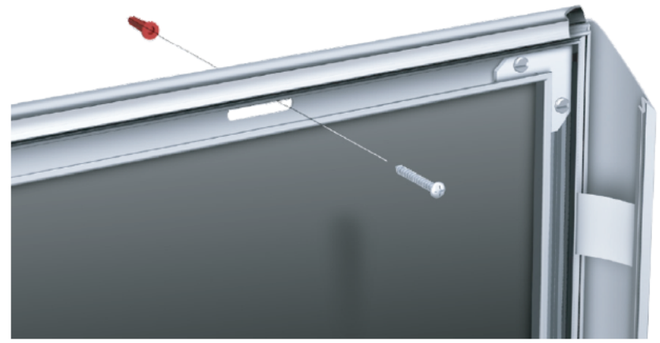
Single Black Snap Frame Above Fountain



Pre-fabricated Black 11" x 17" snap frame, installed 10" above fountain w/ drywall anchors & screws.

6 **S6-FR1-B -** Single Black Snap Frames, 11" x 17" **Sq. Ft.:** 1.3

Scale: 1" = 1'-0"



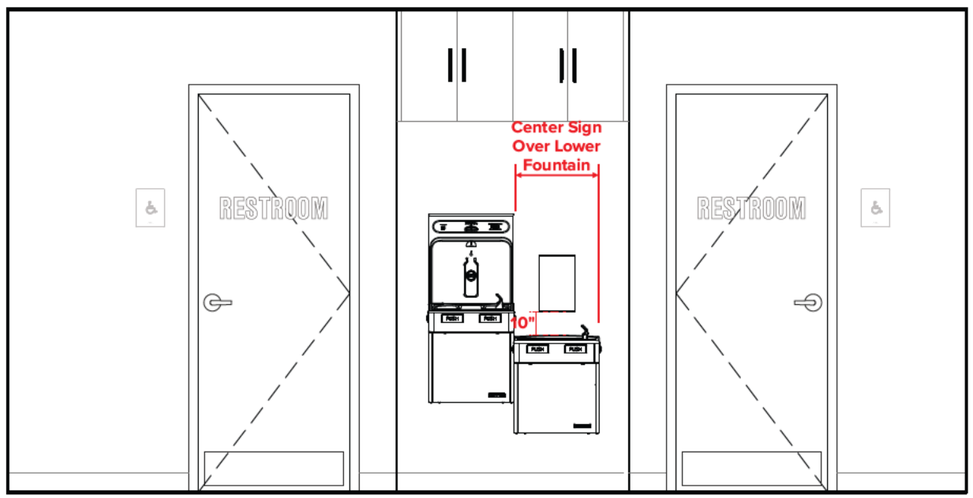
MV **Mounting View**

Scale: N.T.S.

SV **Section View - Frame**

Scale: N.T.S.

Note: Frame Placement to be 10" Above Fountain



TI **Typical Installation**

Scale: N.T.S.

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[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
☐ Approved as Noted
☐ Rejected

Client Signature

Date

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Artwork History

Date	Revision	Revision Detail	Designer
12/19/25	00	Original	JDE
12.22.25	R1	Brackets location revised.	LN

Artwork Location
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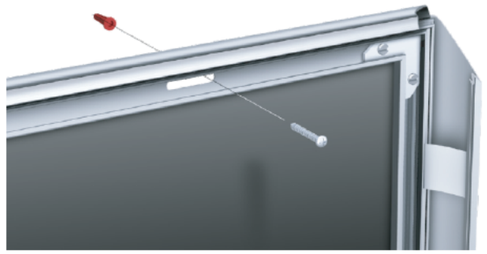
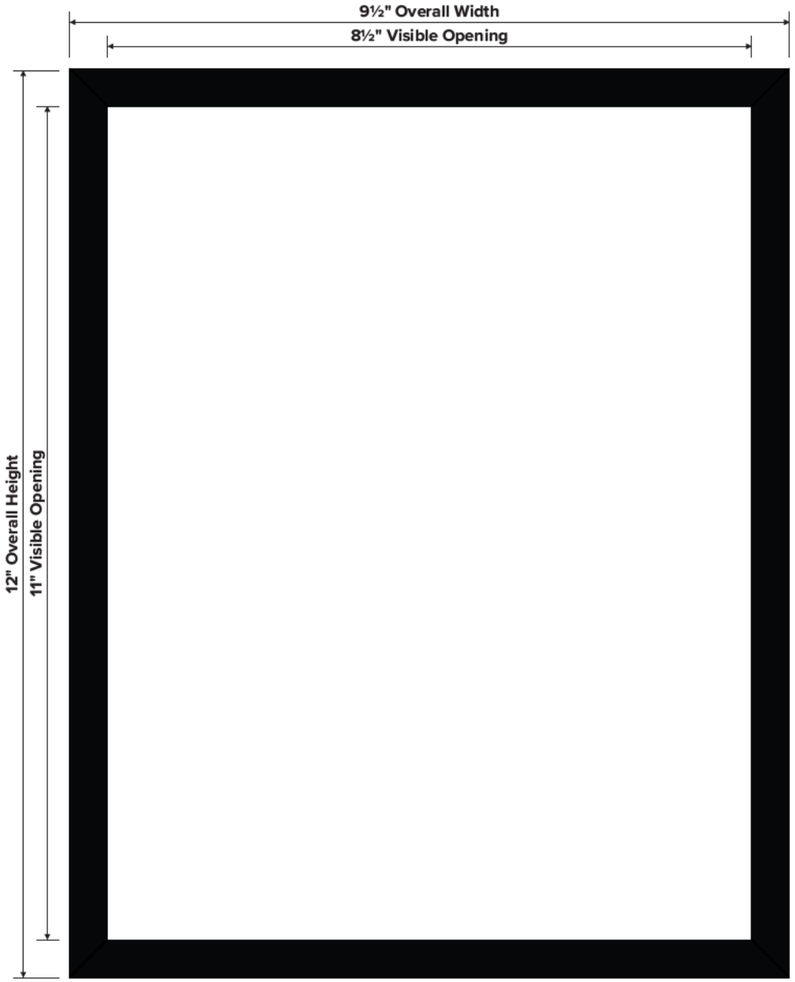
Page 8

Sign Type S7-FRS-B
Set of Black Snap Frames



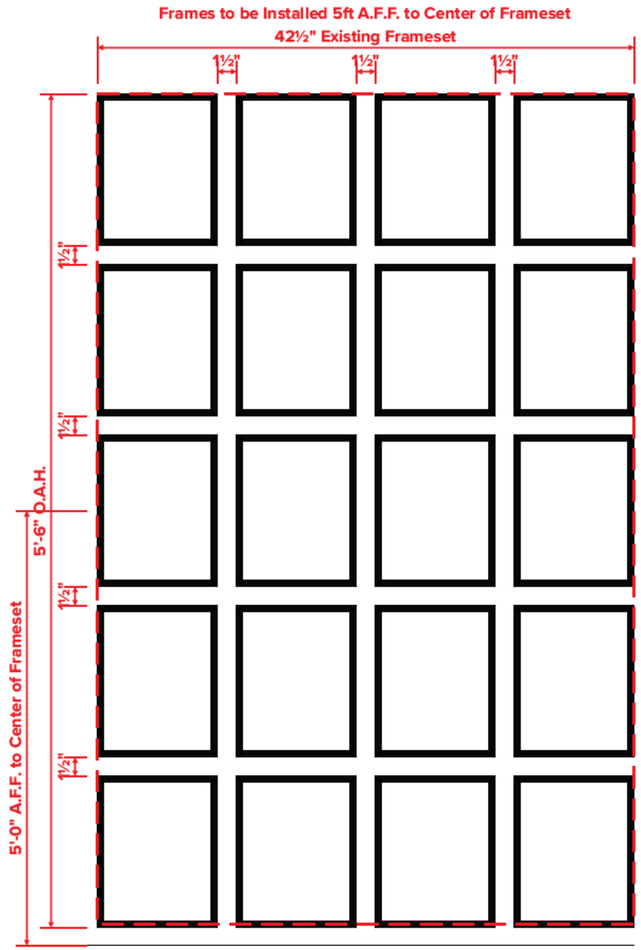
MV Mounting View
N.T.S.

SV Frame Section View
N.T.S.



(20) Pre-Fabricated Black Frames, installed 5ft A.F.F. to Center of Frames

7 **S7-FRS-B** - Black Snap Frames — QTY (20)
1:2 — **SQ. FT.:** .08 Ea.



TI **Typical Installation - (20) Frame Installation**
1" = 1'-0"

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[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
☐ Approved as Noted
☐ Rejected

Client Signature

Date

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Date	Revision	Revision Detail	Designer
12/19/25	00	Original	JDE
12.22.25	R1	Brackets location revised.	LN

Artwork Location
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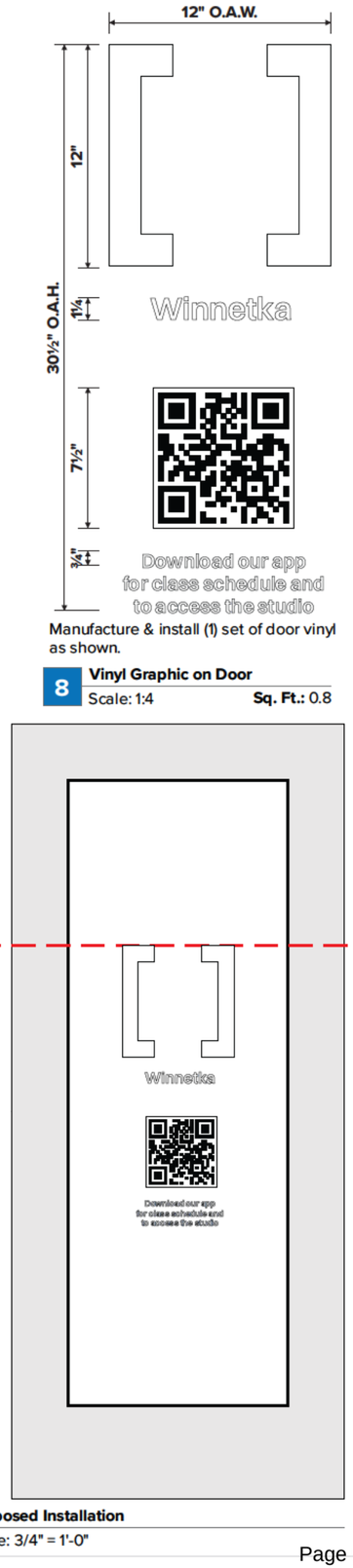
O:\Client Files\Solidcore\Winnetka, IL\3-Design\Interior\Art

Page 9

Sign Type S8-FDR-VN-W

White Front Door Vinyl



Manufacture & install (1) set of door vinyl as shown.

8 **Vinyl Graphic on Door**
Scale: 1:4 **Sq. Ft.:** 0.8

P **Proposed Installation**
Scale: 3/4" = 1'-0"

Font: Switzer SemiBold

V1 – **3M 7125-10 White Opaque Vinyl**

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Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

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☐ Rejected

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Date

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Date	Revision	Revision Detail	Designer
12/19/25	00	Original	JDE
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Artwork Location
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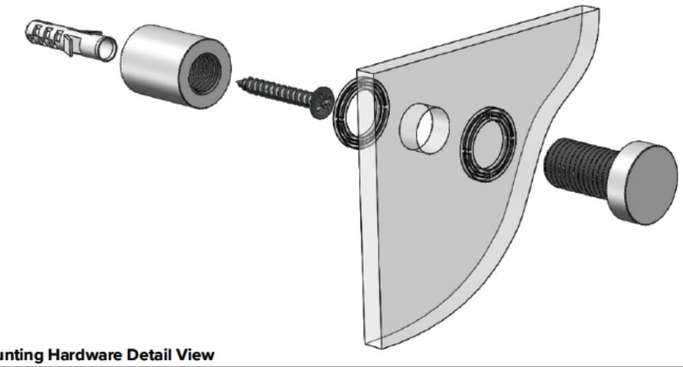
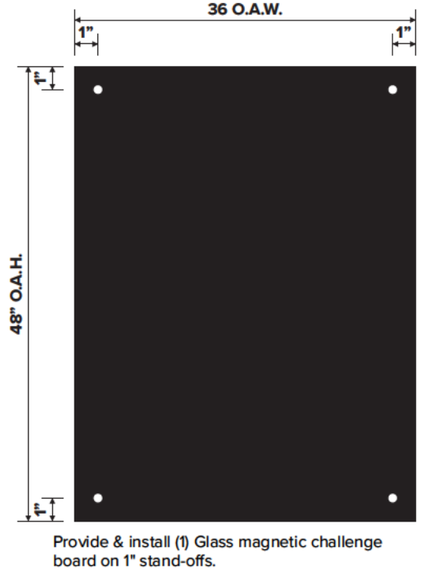
Page 10

Sign Type S9-CB-GL-B
Black Glass Challenge Board

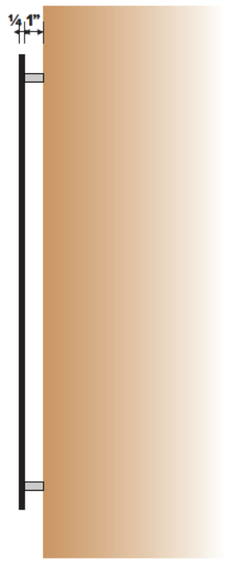


MV **Mounting Hardware Detail View**
Scale: N.T.S.

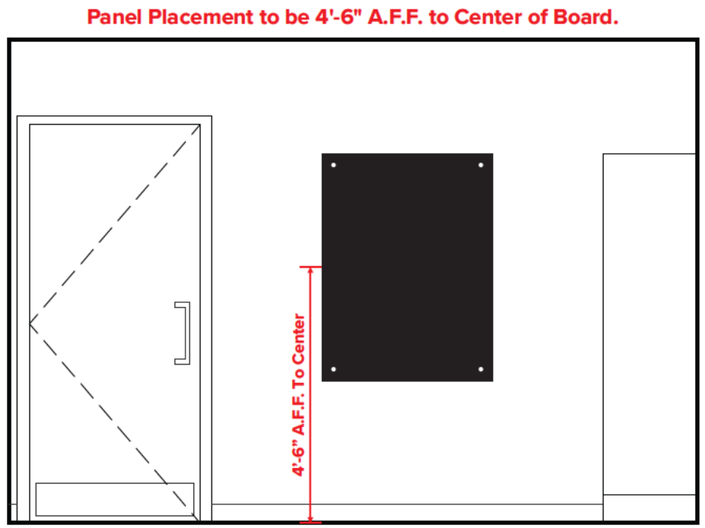


Provide & install (1) Glass magnetic challenge board on 1" stand-offs.

9 **S9-CB-GL-B** - Glass Magnetic Board **Sq. Ft.:** .08
Scale: 3/4" = 1'-0"



S **Side View**
Scale: 3/4" = 1'-0"



TI **Typical Installation**
Scale: N.T.S.

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[solidcore]
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Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
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☐ Rejected

Client Signature

Date

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Artwork Location
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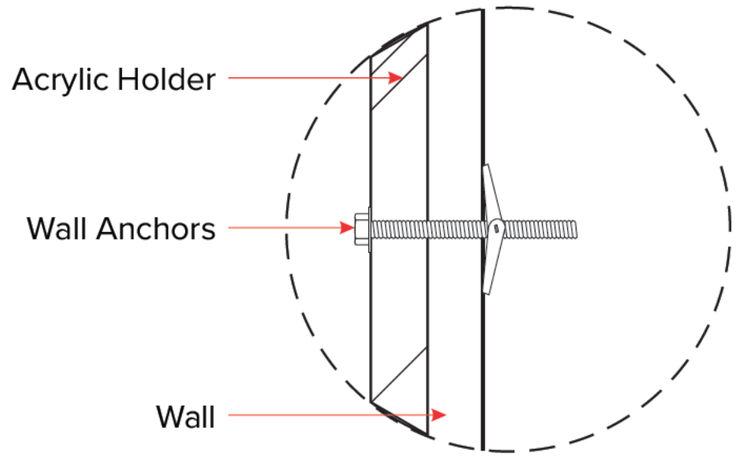
Page 11

Sign Type S11-SBD-CL

Clear Acrylic Sweat Bag Dispenser

Provide & install (1) sweat bag dispenser on wall.

10 **S11-SBD-CL -** Clear Acrylic Sweat Bag Dispenser **Sq. Ft.:** .08
Scale: 1" = 1'-0"



ID **Installation Detail**
Scale: N.T.S.

Note: Dispenser to be install 5'-0" above finished floor.

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Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
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☐ Rejected

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Artwork Location
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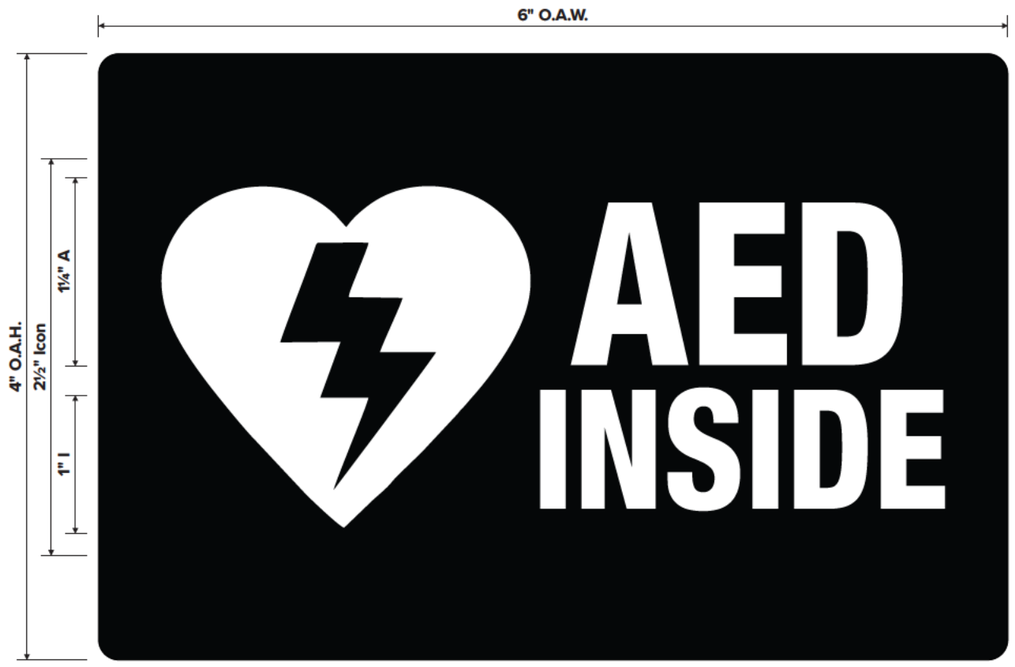
Sign Type S12-AED-PNL

Black Aluminum Panel w/ Vinyl Graphics



Manufacture & provide .040" thick black aluminum panels w/ V1 vinyl applied first surface.

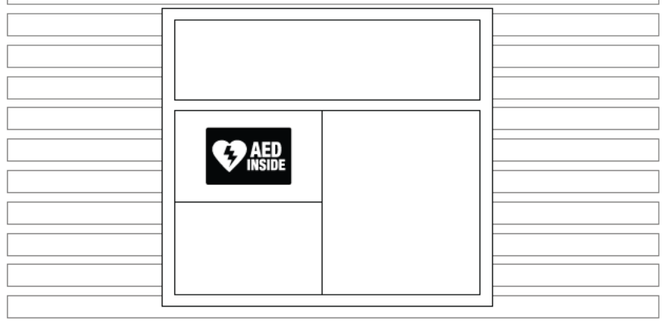
Finishes

V1 — 3M 7125-10 White Opaque Vinyl

11 **S12-AED-PNL** - AED Panel — **Sq. Ft.:** .17

Scale: 1:1

Note: Install on upper left hand drawer of coaches stand.



TYPICAL INSTALL LOCATION @ COACHES STAND

SOUTHEAST SIGN CO.
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5375 Hiatus Rd. • Sunrise, FL 33351
754-332-2263

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

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- ☐ Rejected

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Artwork Location

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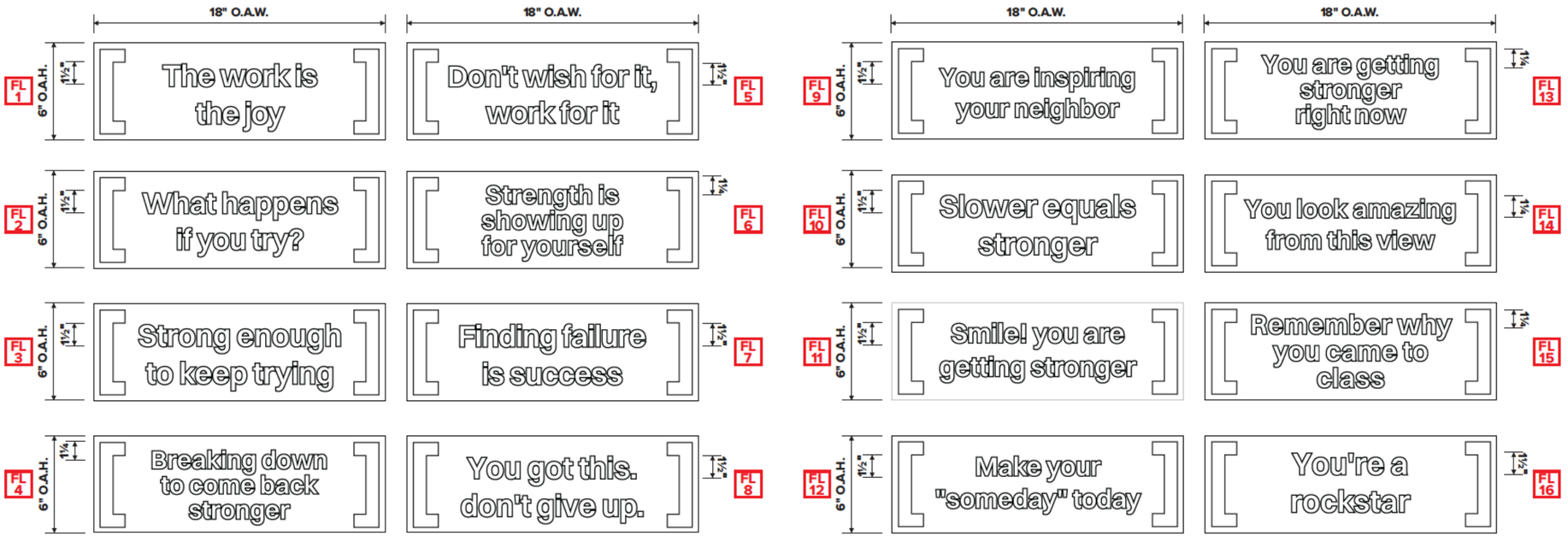
Sign Type S14-FLR-VNL

Clear Vinyl w/ White Printed Graphics

Font: Switzer SemiBold



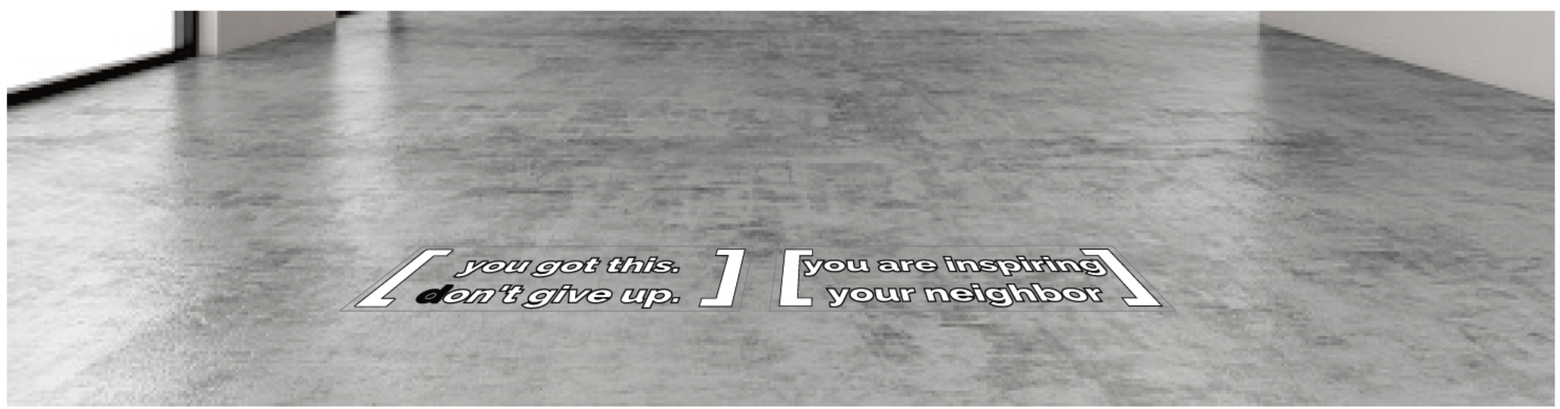
Provide clear vinyl w/ white digital print floor graphics. Client to select messaging for each location.

V1 — **Clear Vinyl w/ White Digital Print**

12 **Clear Vinyl w/ White Digital Print Floor Vinyl Graphics - Switzer Semibold Font**
1 1/2" = 1'-0"

QTY (1) Ea.
SQ. FT.: 0.75 Ea.

Note: THIS SIGN TYPE IS TO BE PROVIDED TO SITE FOR INSTALLATION BY SOLIDCORE OPS TEAM.



P **Photo Example - Showing Clear Vinyl w/ White Digital Print**
Scale: N.T.S.

SOUTHEAST SIGN CO.
ELECTRICAL SIGN AND LIGHTING SPECIALISTS
5375 Hiatus Rd. • Sunrise, FL 33351
754-332-2263

[solidcore]
Winnetka
Elm Street & Lincoln Avenue
Winnetka, IL 60093

Sales Associate: Nick Santoriello
Project Manager: Matt Boone
Designer: J.D. Easton

Permitting Info & Calculations

	Allowed Sq. Ft.
	Proposed Sq. Ft.

Client Approval

☐ Approved
☐ Approved as Noted
☐ Rejected

Client Signature

Date

Notes

This artwork is the sole property of Southeast Sign Company and may not be duplicated or utilized in any fashion without written consent from Southeast Sign Company management. This design is for illustration & concept purposes only. Not for production unless otherwise specified.

Complies with UL 48

Artwork History

Date	Revision	Revision Detail	Designer
12/19/25	00	Original	JDE
12.22.25	R1	Brackets location revised.	LN

Artwork Location
Solidcore_Winnetka, IL._251477_Interior_R1
O:\Client Files\Solidcore\Winnetka, IL\3-Design\Interior\Art

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Example photos of storefront and lobby visibility

Example photos of storefront and lobby visibility

Example photos of storefront and lobby visibility

Retail Fridge

Proposed sweatbag holder

Solidcore installed example

Manufacturer Example

Sign Type S11-SBD-CL

Clear Acrylic Sweat Bag Dispenser

Provide & install (1) sweat bag dispenser on wall.

10 **S11-SBD-CL** - Clear Acrylic Sweat Bag Dispenser **Sq. Ft.:** .08
Scale: 1" = 1'-0"

Example Class Schedule

Mon November 24, 2025 Signed in 240 (81.63%)		Classes (Click for details)	Teacher (Check box to edit)	Assistant	Location
5:30 - 6:20 am	Sign In (19/21)(1)	Signature50: Full Body	[redacted]		IL, Lincoln Park
6:00 - 9:00 am	Sign In (0/0)	Internal Core Crew Shift			IL, Lincoln Park
6:30 - 7:20 am	Sign In (19/21)	Signature50: Full Body			IL, Lincoln Park
7:30 - 8:20 am	Sign In (19/21)(8) *	Signature50: Full Body			IL, Lincoln Park
8:30 - 9:20 am	Sign In (12/21)	Signature50: Full Body			IL, Lincoln Park
9:30 - 10:20 am	Sign In (13/21)	Signature50: Full Body			IL, Lincoln Park
10:30 - 11:20 am	Sign In (17/21)	Signature50: Full Body			IL, Lincoln Park
11:30 - 12:20 pm	Sign In (20/21)(1)	Signature50: Full Body			IL, Lincoln Park
12:30 - 1:20 pm	Sign In (15/21)	Signature50: Full Body			IL, Lincoln Park
3:30 - 4:20 pm	Sign In (20/21)	Signature50: Full Body			IL, Lincoln Park
4:00 - 8:45 pm	Sign In (0/0)	Internal Core Crew Shift			IL, Lincoln Park
4:30 - 5:20 pm	Sign In (21/21)(1) *	Signature50: Full Body			IL, Lincoln Park
5:30 - 6:20 pm	Sign In (21/21)(4)	Signature50: Full Body			IL, Lincoln Park
6:30 - 7:20 pm	Sign In (21/21)(3)	Signature50: Full Body			IL, Lincoln Park
7:30 - 8:20 pm	Sign In (19/21)(3)	Signature50: Full Body			IL, Lincoln Park
8:30 - 9:20 pm	Sign In (4/21)	Starter50: Intro to [solidcore]			IL, Lincoln Park

WINNETKA PLAN COMMISSION MEETING MINUTES EXCERPT
JANUARY 28, 2026

Members Present:	Layla Danley, Chairperson Jonathan Alt Christopher Blum Matthew Bradley Mamie Case Chris Enck King Poor Kate Van Vlack
Members Absent:	Cyrus Subawalla
Non-Voting Members Present:	Bridget Orsic
Village Staff:	Scott Mangum, Community Development Director Ann Klaassen, Assistant Director of Community Development Christopher Marx, Associate Planner
Village Attorney:	Peter Friedman Courtney Trefil

***

a. **Case No. 26-02-SU: 736 Elm Street - Solidcore: An application seeking approval of a Special Use Permit submitted by Solidcore, as the prospective lessee of the commercial space located at 736 Elm Street to allow a personal fitness facility in the C-2 General Retail Commercial Overlay District. The property is currently owned by MDG Winnetka One, LP. The Village Council has final jurisdiction on this request.**

Mr. Marx summarized the special use permit requested and identified the property's location in the One Winnetka development and zoning classification with the proposed space to be occupied in the Commercial Overlay District. He then identified the Overlay District boundaries as well as the proposed use in an illustration for the Commission. Mr. Marx summarized the business operations, number of employees and hours of operation which would be appointment-only classes. He also summarized the proposed parking plan and use occupancy in detail. Mr. Marx summarized the One Winnetka final planned development approval, the partial approval of special use findings for medical and financial service uses and noted cultural recreational and entertainment uses, which includes personal fitness facilities, did not receive partial approval in the One Winnetka planned development with all 12 special use standard being applicable that are provided on pages 101 and 102 of the agenda packet.

Mr. Marx stated following the applicant's presentation, public comment and Commission discussion, the Commission may decide to either continue the application to a date certain to allow time to address any questions or comments or consider a motion recommending approval or denial of the special use permit with draft language included on pages 101-102. He then asked if there were any questions.

Chairperson Danley referred to the Commission's prior discussion regarding the allowance for special use

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permits and asked what information is there available on other building tenants other than the Ballyhoo restaurant. Mr. Mangum referred to the Charles Schwab and the Winnetka Aesthetic Studio approved special uses as well as the Arkadia restaurant which would be a permitted use in the development. He noted there is one additional special use application which was submitted for a medical-related use as well as another restaurant concept which would be a permitted use. Chairperson Danley asked if there were any questions.

Ms. Van Vlack asked if any of the remaining space available would be a restaurant or special use. Mr. Mangum confirmed all of the spaces have been leased. He stated they do not have all of the information available yet for the upcoming special use request. Ms. Klaassen confirmed there are limits for medical and financial special uses. Ms. Van Vlack asked how many potential retail spaces remain on Elm Street. Mr. Mangum stated there are no retail spaces remaining. No additional questions were raised at this time.

Chairperson Danley asked for the applicant's presentation. She swore in those speaking to this matter. Melanie Nifong, Solidcore Senior Director of Operations and Sean Jackson of DxU Architects introduced themselves to the Commission. Chairperson Danley referred to the proposed hours of operation and the applicant's other locations around the country. She asked if there has been discussion whether the proposed schedule would generate the same amount of people as in their other locations. Ms. Nifong stated other suburban locations have a fully robust schedule which she described for the Commission. She noted their closest location to the Village is in Buffalo Grove which has over 600 members. Ms. Nifong also described the demographic. Mr. Bradley stated he is concerned with regard to the evening hours and whether the space would compete with other uses such as a restaurant. Mr. Jackson identified the existing parking on Lincoln and Elm as well as the dedicated spaces in the One Winnetka development. He noted their patrons would not all drive to the location which include those using the train. Mr. Jackson also stated a parking analysis was previously done for the entire One Winnetka development. Mr. Bradley also questioned the noise component. Mr. Jackson responded it would be in the 40-50 decibel range, and they have a consultant which provided recommendations for their locations which include the fact that residents are located above the location. Ms. Nifong estimated 50% of their locations are in mixed use buildings.

Chairperson Danley asked the applicant if they considered any other properties. Mr. Jackson responded the applicant's real estate team reviewed other properties in the area. Ms. Nifong stated they had to close their Vernon Hills location during Covid. Chairperson Danley asked if there were any questions.

Ms. Van Vlack questioned the in-person staff makeup which Ms. Nifong described for the Commission. Mr. Jackson confirmed there would be times no music is being played during in the 10 minute gap between classes and stated they were advised by an acoustical engineer in terms of sound. Ms. Nifong described the coaching staff and noted the door would be locked. Mr. Blum stated he is concerned with regard to double counting parking spaces in terms of overlap. Ms. Nifong added no shower amenities would be provided.

Mr. Poor stated while he appreciated the acoustical mitigation efforts, he referred to the residential units above and asked if they would be able to hear music. Mr. Jackson explained the way in which the space would be defined. He informed the Commission the acoustical report can be provided to the Commission. Ms. Nifong noted sound testing is done prior to opening their locations. Ms. Van Vlack asked what would be done to keep with the building's aesthetic in terms of signage. Mr. Marx explained that the applicant was asked to provide a general context for the proposed signage for consideration by the DRB and referred to the elevation renderings. He also noted backlit lighting was originally proposed for the sign but it was

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changed to external illumination. No additional questions were raised at this time.

Chairperson Danley stated there is no one in the audience to comment and called the matter in for discussion.

Ms. Case stated this is not the right venue for this use and referred to the amount of issues relating to parking. She stated the Commission was under the impression that the developer would seek retail or restaurant uses as opposed to another special use. Ms. Case identified several special use businesses in the area and stated given the parking use by the applicant, parking would be full constantly. She concluded this space would not be a good fit for this use. Mr. Blum agreed with Ms. Case's comments and stated if the Overlay District is worth having, the requirements should be enforced. He stated there should be some semblance of retail in the front and he would not be in favor of the request.

Mr. Poor stated he appreciated the applicant's presentation and agreed with the comments made. He stated he would not be in favor of the request. Trustee Orsic stated while there is a demographic which would like the use, she suggested the applicant look for another location. She questioned why the developer did not come to the meeting to further explain the request. Mr. Alt stated while they want the business in the community and there is a demand for it, he referred to the One Winnetka project being an idea for a decade and there has not been a demand for a retailer in this space. He questioned whether this business would be a more modern use for the space and stated this type of business would be attractive to the area and would draw a diverse demographic. The Commission Members discussed similar cases which were denied and the Commission Members summarized their positions.

Mr. Enck stated his initial concern related to parking and referred to other special uses which generate foot traffic for other businesses. He commented it would be nice if the use was in an area which supported other businesses. Mr. Bradley stated his initial thought was to recommend approval and agreed with Mr. Alt's comments relating to hanging on to retail uses at the cost of denying other businesses. He questioned why they would deny a use that would be preferred by the younger generation and good for the Village. Mr. Bradley also stated he is concerned with the door being locked and commented the number of people in and out of the use would be beneficial. He agreed parking is an issue and commented they should not recommend denial of a cool and upcoming use.

Chairperson Danley commented while the proposed use may be a great idea and a good business draw for the Village, she would feel better if it was in a different location. She also stated she is concerned with regard to standard nos. 5 and 7 and referred to the post office site development and the draw on parking. Chairperson Danley stated there would not be a pedestrian draw with only special uses in the area and described the process as unfair to the applicant. She stated if they were to accept the premise that this would only be a special use building, they would kill any type of pedestrian nature for the area. Chairperson Danley concluded it came down to the space they are evaluating and whether the use met the standards and in this instance, it did not and she would not be in favor of the request. The Commission Members discussed whether the application would have been approved at a different point in time.

Chairperson Danley took a straw poll of the Commission Members and asked for a motion. A motion was made by Mr. Poor to recommend denial of the special use request. The motion was seconded by Mr. Blum. A vote was taken and the motion passed, 5 to 3:

AYES: Blum, Bradley, Case, Danley, Poor
NAYS: Alt. Enck, Van Vlack
NON-VOTING: Orsic

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Respectfully submitted,

Antionette Johnson
Recording Secretary

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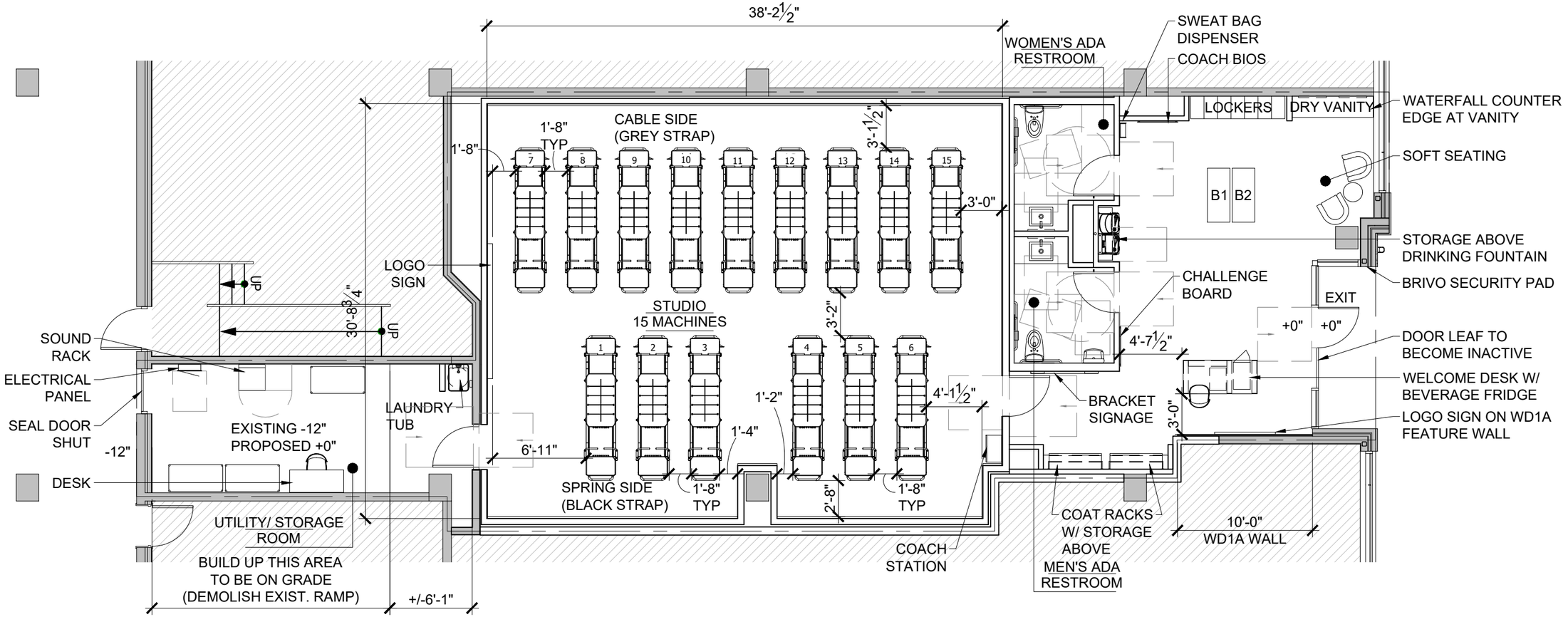
Attachment 2

LEGEND
EXISTING PARTITION
NEW PARTITION
NOT IN CONTRACT (NIC)
SQ. FOOTAGE CALCULATIONS
+/-2,271 RSF



01 FLOOR PLAN

1/8" = 1'-0"

PLOT DATE: 2/6/2026 5:55 PM PLOTTED BY: SEAN JACKSON

CLIENT

[solidcore]

[solidcore] ONE WINNETKA - WINNETKA, IL

FLOOR PLAN (ALTERNATIVE OPTION)

DxU ARCHITECTS
412 S. Wells Street ▪ 2nd Floor ▪ Chicago ▪ IL ▪ 60607
P: 312 955 0334 ▪ dxuarch.com

DATE 02-06-2025

SHEET NO. TF2

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