

Winnetka Village Council
STUDY SESSION
Village Hall
510 Green Bay Road
April 9, 2019
7:00 PM

Emails regarding any agenda item are welcomed. Please email contactcouncil@winnetka.org, and your email will be relayed to the Council. Emails for a Tuesday Council meeting must be received by Monday at 4 p.m. Any email may be subject to disclosure under the Freedom of Information Act.

AGENDA

- 1) Call to Order
- 2) Public Comment
- 3) Elm Phase I Streetscape Update2
- 4) Closed Session
- 5) Adjournment

NOTICE

All agenda materials are available at [villageofwinnetka.org](http://www.villageofwinnetka.org) (Government > Council Information > Agenda Packets & Minutes); the Reference Desk at the Winnetka Library; or in the Manager's Office at Village Hall (2nd floor). Webcasts of the meeting may be viewed on the Internet via a link on the Village's web site: <http://www.villageofwinnetka.org/government/village-videos/>.

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 – Megan Pierce, at 510 Green Bay Road, Winnetka, Illinois 60093, 847-716-3543; T.D.D. 847-501-6041.



Agenda Item Executive Summary

Title: Elm Phase I Streetscape Update

Presenter: Steven M. Saunders, Director of Public Works/Village Engineer

Agenda Date: 04/09/19

Consent: ☐ YES ☒ NO

- ☐ Ordinance
- ☐ Resolution
- ☐ Bid Authorization/Award
- ☒ Policy Direction
- ☐ Informational Only

Item History:

5-9-17: Village Council agreed to pursue Teska Associates services to assist Downtown Master Plan (DMP) Task Force with Streetscape Plan.
9-19-17: Village Council approved Resolution No. R-65-2017: Downtown Master Plan Streetscape Consulting Services with Teska Associates.
2-6-18 & 4-3-18: DMP Task Force provided Village Council with updates regarding its work on Elm Street Business District Streetscape.
6-5-1: DMP Task Force presented Draft Downtown Streetscape & Signage Plan to Village Council.
6-19-18: Village Council adopted Downtown Streetscape & Signage Plan.
2-12-19: Village Council reviewed proposed revisions to Downtown Streetscape & Signage Plan and authorized staff to solicit engineering proposals.
2-19-19: Village Council awards contract for design engineering services.

Executive Summary:

Following a nine-month public planning process that included guidance by the Downtown Master Plan (DMP) Task Force and public engagement, the Village Council adopted the Downtown Streetscape and Signage Master Plan on June 19, 2018. During the Council's consideration of the Streetscape Plan, the Council heard comments from downtown businesses owners expressing concerns regarding the loss of both on-street customer parking and sidewalk trees. In response to those concerns the Village Council directed staff to further evaluate the impact of the Streetscape Plan on parking and trees prior to the preparation of construction documents.

Teska Associates and staff, with guidance from President Rintz, began to further review the impact of the Streetscape Plan in regards to on-street parking and street trees. Planned streetscape improvements for Phase I include improvements along Chestnut Street between Spruce and Elm Street, and the Chestnut and Elm intersection. Given these improvements are located in the western portion of the Elm Street Business District, we sought input from these businesses' stakeholders through two meetings - one held on December 6, 2018, and one held on January 9, 2019.

At the February 12, 2019, Study Session, the Village Council discussed and adopted revisions to the streetscape design for the proposed West Elm Business District streetscape improvements, and directed staff to return to the Council with a proposed engineering contract to develop plans, specifications, and bidding documents for the improvements. On February 19, 2019 the Village Council awarded a contract to Ciorba Group and Teska Associates to complete construction plans, specifications, and bidding documents. The design schedule includes two public check-in points with the Village Council. First, on April 9, the Council will review streetscape elements in the 60% design plans. In addition, a final public review will take place at the May 7 Council Meeting on 90% plans and authorization to bid the project. Bidding is anticipated in June, with a construction contract anticipated to be awarded in July, 2019.

Executive Summary (continued):

The project is at approximately 60% design. This means that the base roadway and utility plans are essentially complete, as are the layout of the various streetscape elements such as planting areas, the lighting system, paver areas and gathering spaces, parking layout, and selection and placement of design elements. The design also includes selection of trees and planting materials, as well as landscaping enhancements to the northern portion of the Post Office parking lot, which will become solely a customer parking lot. The documents are in the form of plan sheets, section drawings, and product specification sheets, and are what would typically be presented at the 60% stage. The following information is included:

- Streetscape lighting (e.g. roadway lighting, pedestrian scale lighting, festoon lighting, and holiday lighting);
- Streetscape gathering spaces and furnishings (e.g. chairs and benches, seat walls, bike racks, and flower pots);
- Streetscape landscaping (e.g. trees, shrubs, perennials, and tree grates);
- Streetscape signage (business directory kiosk, parking directional signage, and traffic and parking control signage); and
- Roadway geometric and pavement design and materials.

Village staff and the design team of the Ciorba Group and Teska Associates will review these materials with the Village Council at the April 9 Study Session. Color exhibits of the streetscape materials will be presented at the meeting.

Recommendation:

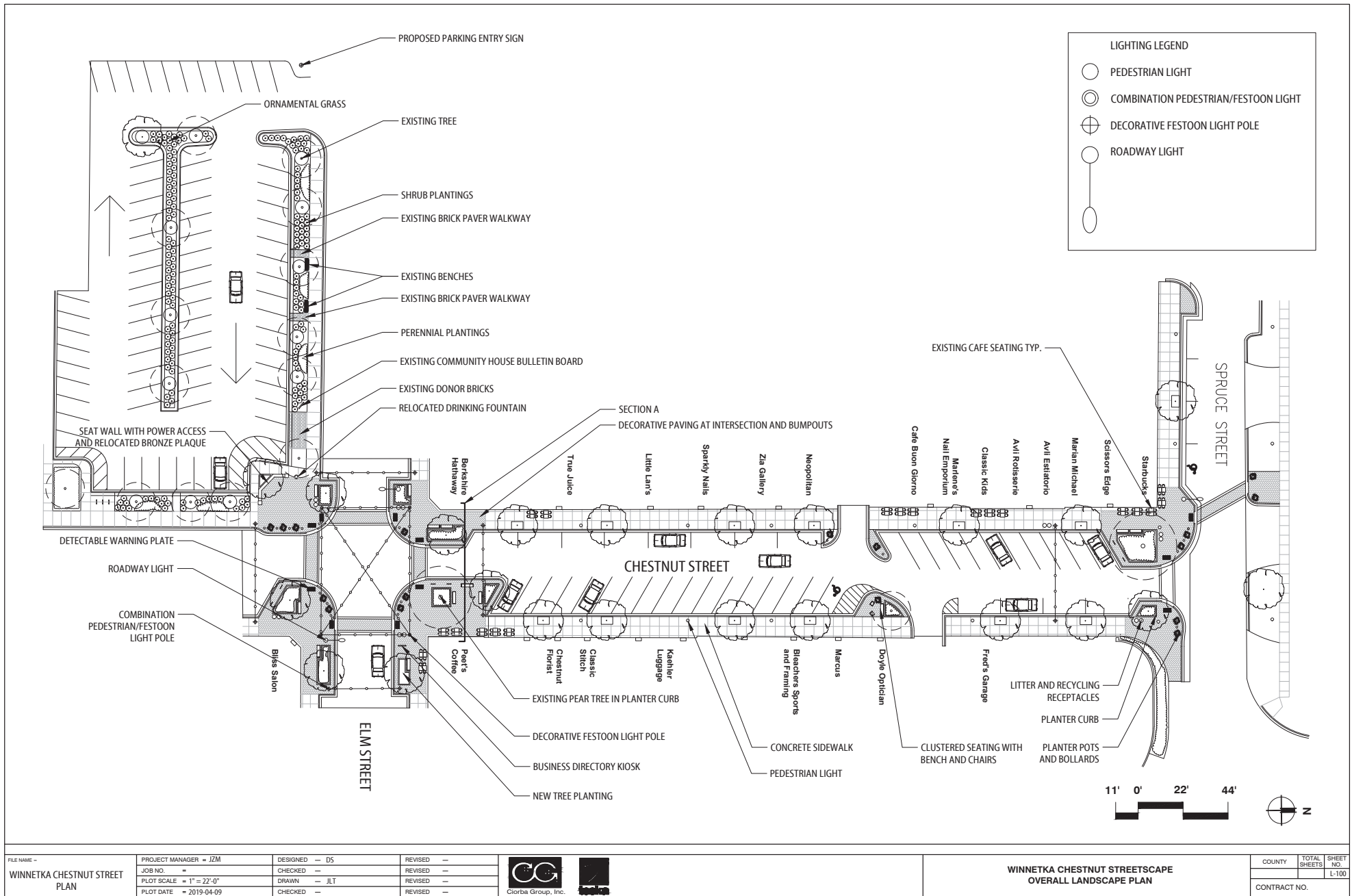
Staff requests comments from the Village Council regarding the application of the Streetscape Plan's design elements (lighting, furnishings, landscaping, and signage) contained in the 60% construction design plans. We also request concurrence from the Council for staff and the consultant team to proceed with finalizing the design work and preparing 90% construction bid documents.

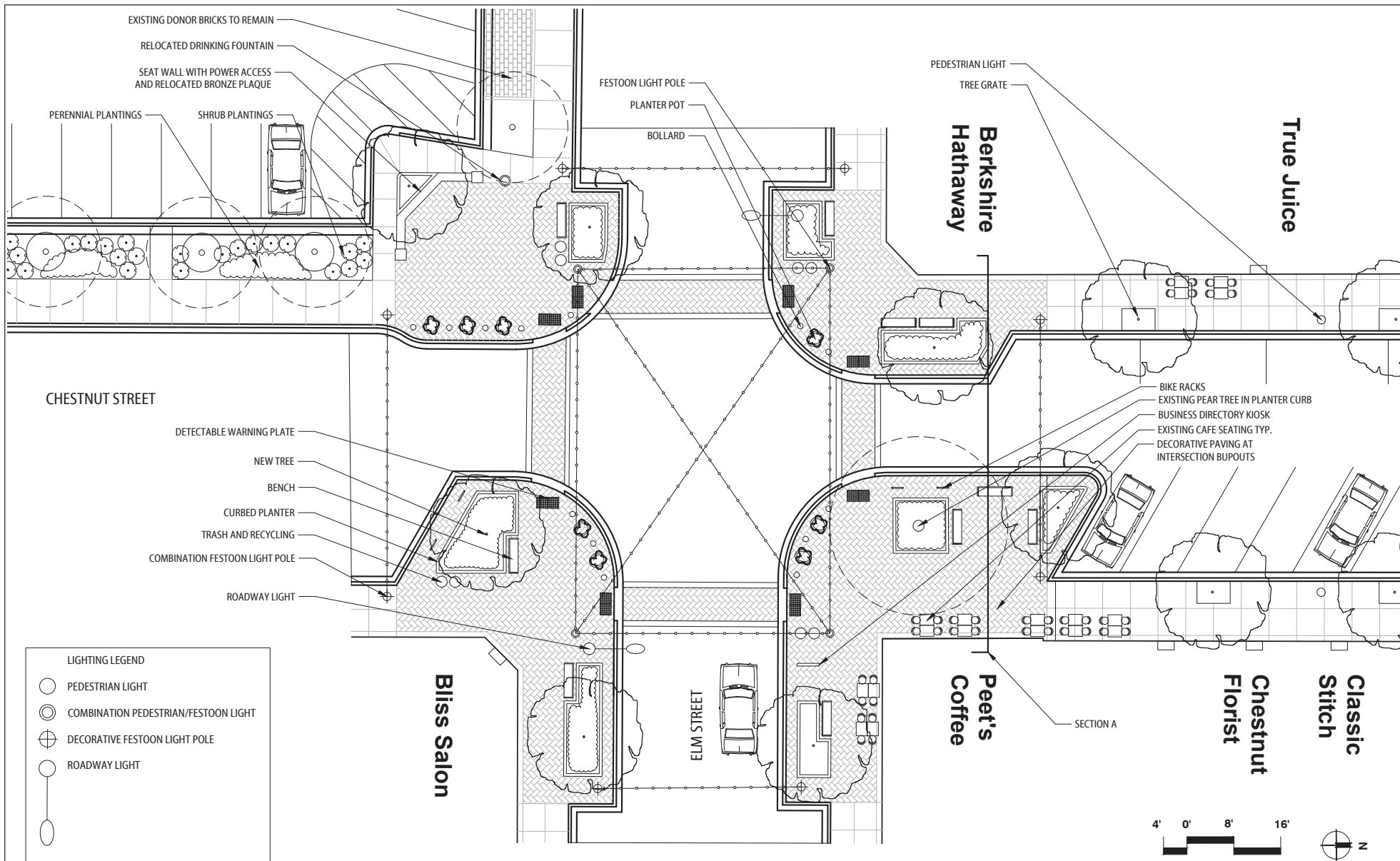
Attachments:

1. Streetscape Element Layout and Details (9 sheets)
2. Design Element Details and Cut Sheets (26 sheets)
3. Streetscape Geometrics and Lighting Plan (5 sheets)

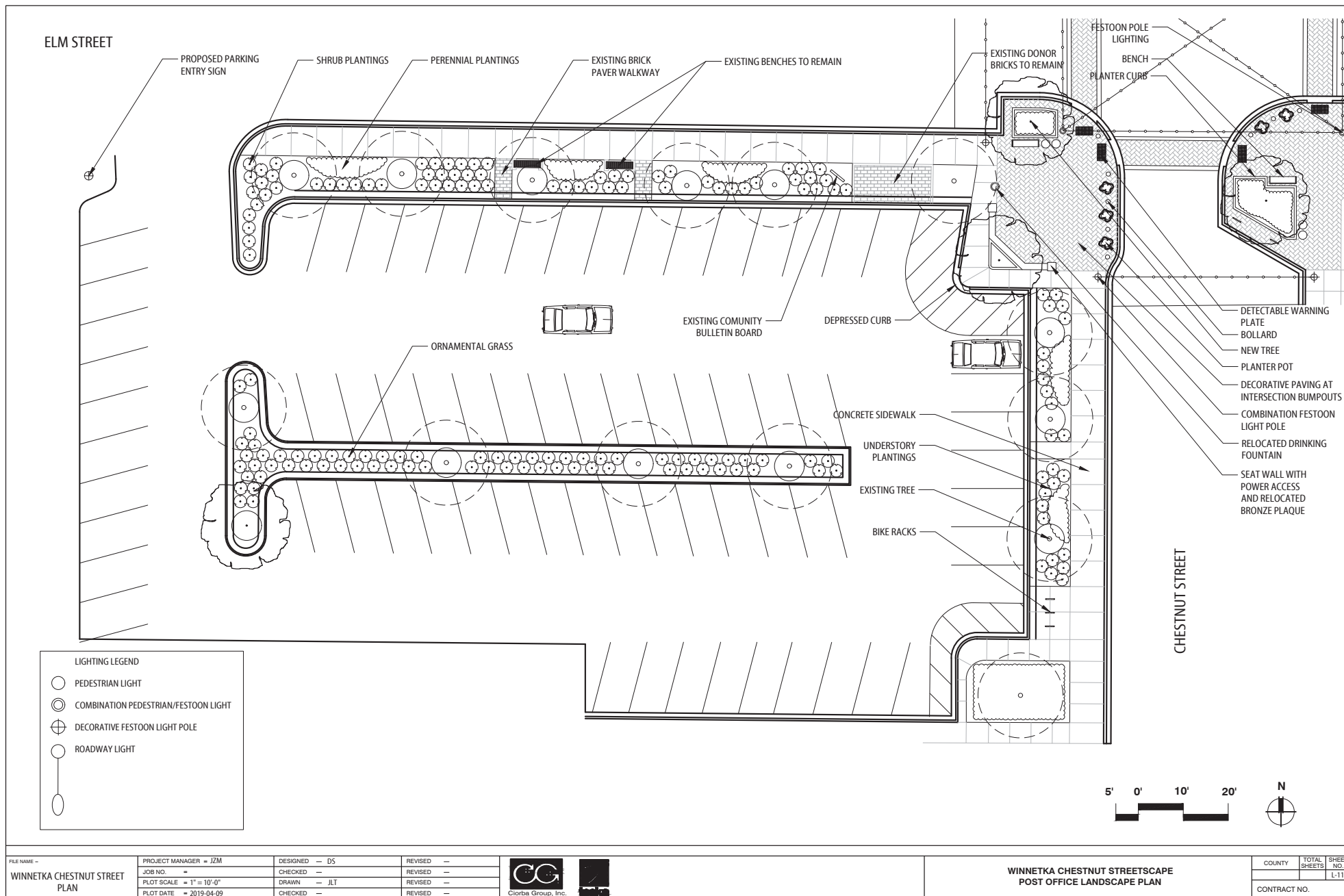
ATTACHMENT #1

STREETSCAPE ELEMENT LAYOUT AND DETAILS (9 SHEETS)





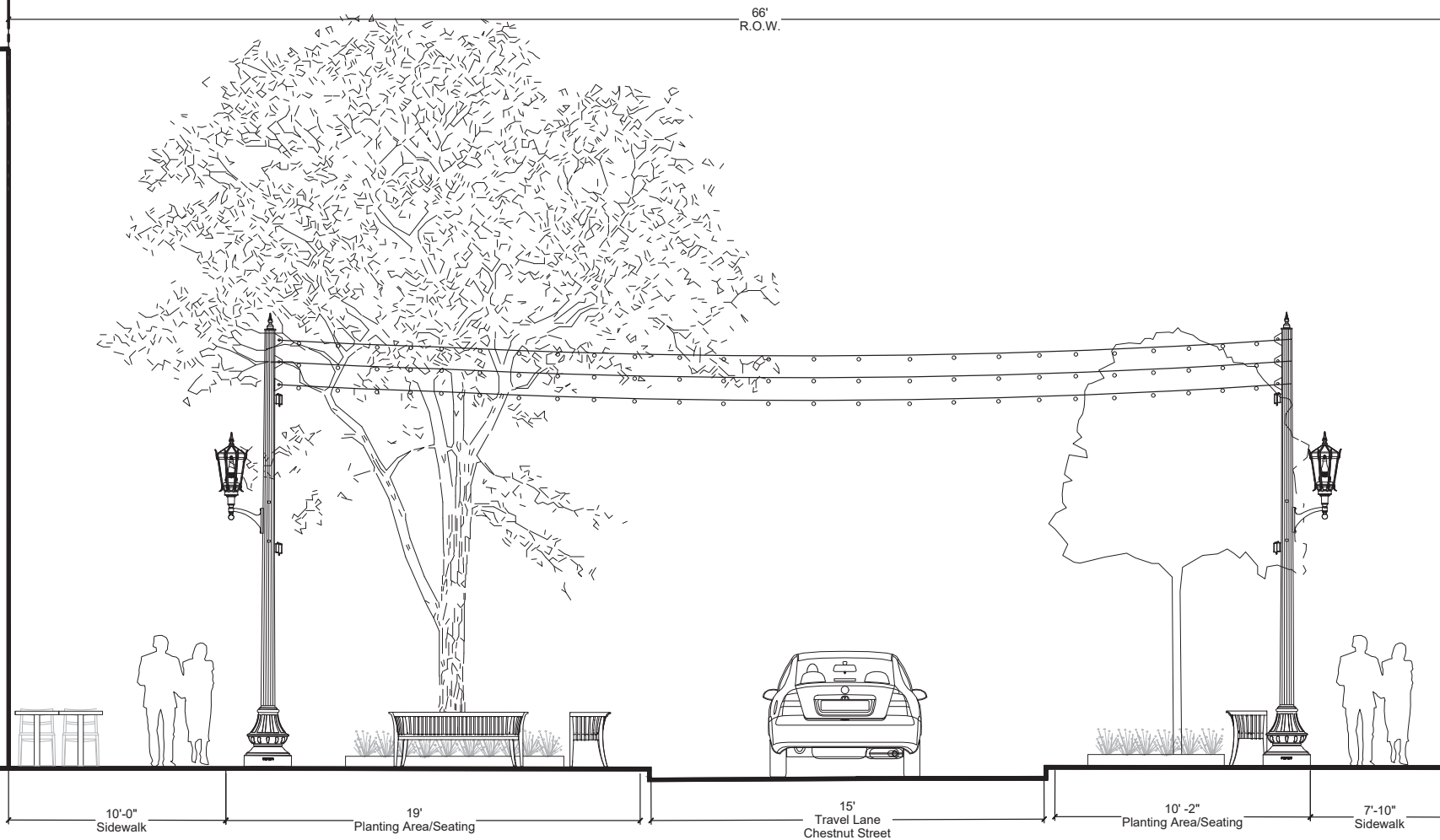
FILE NAME -- WINNETKA CHESTNUT STREET PLAN	PROJECT MANAGER -- JZM	DESIGNED -- DS	REVISED --		WINNETKA CHESTNUT STREETScape CHESTNUT AND ELM INTERSECTION LANDSCAPE PLAN			COUNTY TOTAL SHEETS SHEET NO. L-110 CONTRACT NO.
	JOB NO. --	CHECKED --	REVISED --					
	PLOT SCALE -- 1" = 8'-0"	DRAWN -- JLT	REVISED --					
	PLOT DATE -- 2019-04-09	CHECKED --	REVISED --					



PEET'S
COFFEE

BERKSHIRE
HATHAWAY

66'
R.O.W.



X:\Vintella Downtown Streetscape\2019 Chestnut Street Engineering\CAO\CAO20_20SHEETS\L-50X SIGNAGE.dwg Apr 04, 2019 - 11:08am-HFave



FILE NAME = SIGNAGE	PROJECT MANAGER = JZM	DESIGNED BS	REVISED —	 Clorba Group, Inc.	ELM STREET PUBLIC PARKING LOT WAYFINDING SIGNAGE	COUNTY	TOTAL SHEETS	SHEET NO.
	JOB NO. =	CHECKED —	REVISED —					L-50X
	PLOT SCALE =	DRAWN HF	REVISED —			CONTRACT NO.		
	PLOT DATE = 2019-04-04	CHECKED —	REVISED —					

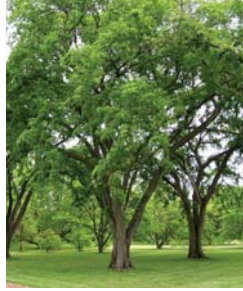
Trees



Hackberry
Celtis occidentalis



Red Oak
Quercus rubra



American Elm
Ulmus americana



Kentucky Coffee Tree
Gymnocladus dioica

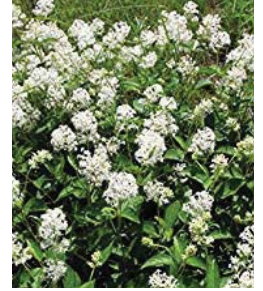
Shrubs



Dwarf Bush
Honeysuckle
Diervilla lonicera



Kalms St. Johns Wort
Hypericum kalmianum



New Jersey Tea
Ceanothus americanus

Perennials



Prairie Dropseed
Sporobolus heterolepis



Prairie Sedge
Carex bicknellii



Geranium
Geranium maculatum



Black Eyed Susan
Rudbeckia hirta



Butterfly Weed
Asclepias tuberosa



Bradbury's Bee Balm
Monarda bradburiana

Winnetka Downtown Streetscape - Native and Salt Tolerant Plant List

Winnetka, Illinois



April 9, 2019



Clustered Bench Seating

Manufacturer: Landscape Forms
Model: Melville bench and chair with backs and arms
Color: Black frame (powdercoat) with wood seat



Litter/Recycling Receptacles

Manufacturer: Landscape Forms
Model: Scarborough
Color: Black powdercoat (paint existing)



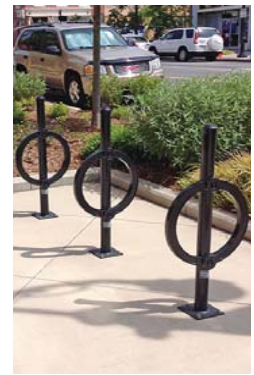
Bollard

Manufacturer: Sternberg
Model: Augusta Unlit
Color: Tavern Market Green



Detectable Warning Plate

Manufacturer: Neenah Foundry
Model: 4984-24Q 24" x 24"
Color: Natural finish cast iron



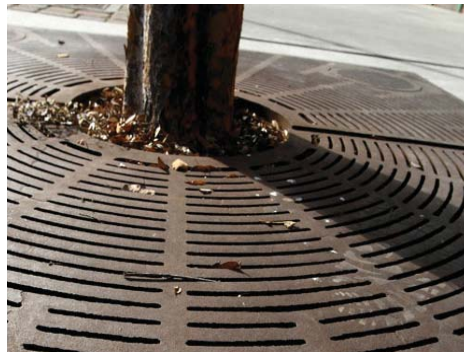
Bike Racks

Manufacturer: Maglin
Model: MBR200
Color: Black powdercoat



Intersection Bumpouts and Crosswalk Paving

Manufacturer: Whitacre-Greer
Model: Clay brick pavers, lightly rumpled
Color: North Shore Blend, herringbone pattern



Tree Grate

Manufacturer: Neenah Foundry
Model: R-8811 Custom
Color: Natural finish cast iron
Size: 4' x 6'



Precast Concrete Planter

Manufacturer: Wausau
Model: TF4341
Color: W20 white, weathered finish
Size: 42" x 36" x 20"



Drinking Fountain

Manufacturer: Murdock
Model: M-C76B
Color: Black finished cast iron pedestal, cast brass bowl
Match existing at Dwyer Park



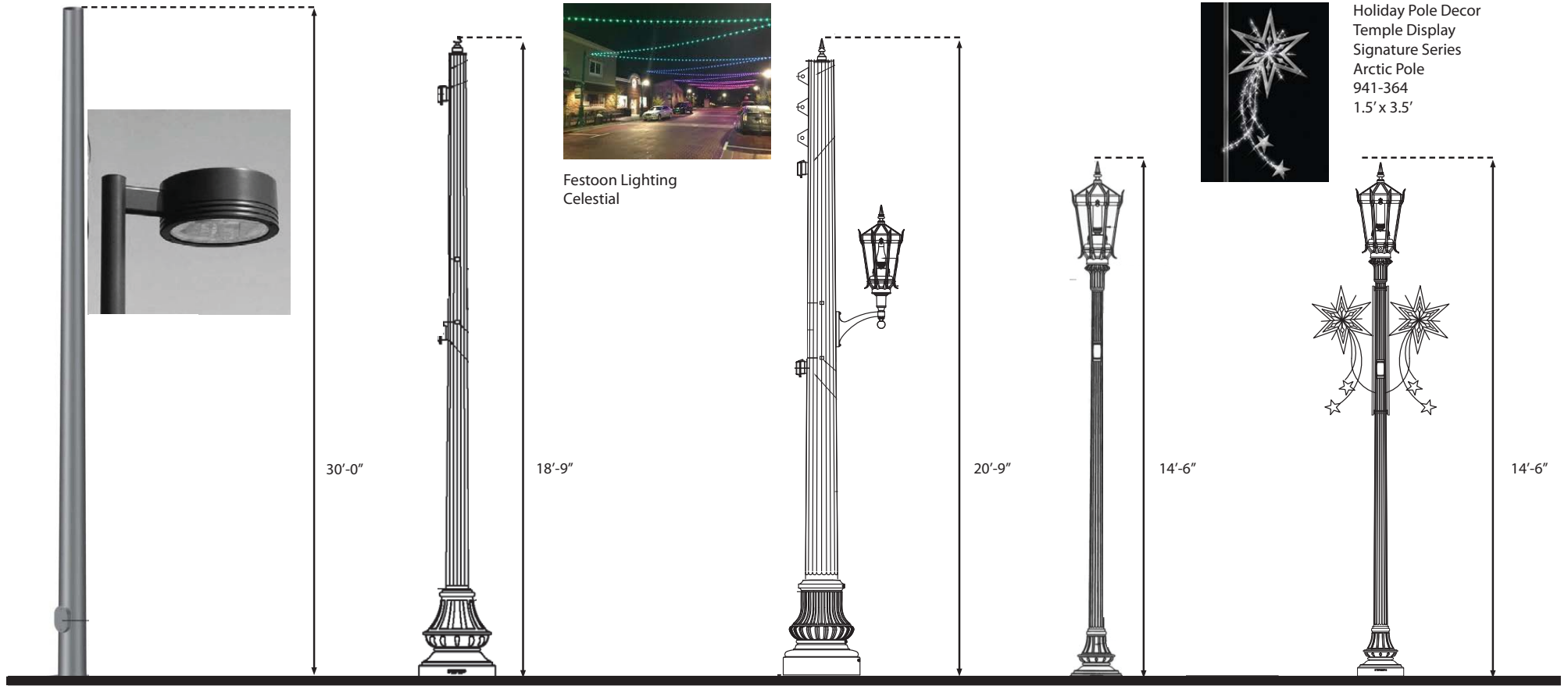
Masonry Wall with Relocated Bronze Plaque

Match existing at Dwyer Park

Winnetka Downtown Streetscape - Products and Materials



April 9, 2019



Vehicular Lighting

Manufacturer: Valmont Pole, Kim Luminaire
Color: Tavern Market Green (match existing)

Decorative Festoon Pole

Manufacturer: Sternberg
Model: Augusta Pole 18' ht.
Color: Tavern Market Green (match existing)

Combination Pedestrian/Festoon Lighting

Manufacturer: Sternberg
Model: Augusta Pole 18' ht.
Color: Tavern Market Green (match existing)

Pedestrian Lighting

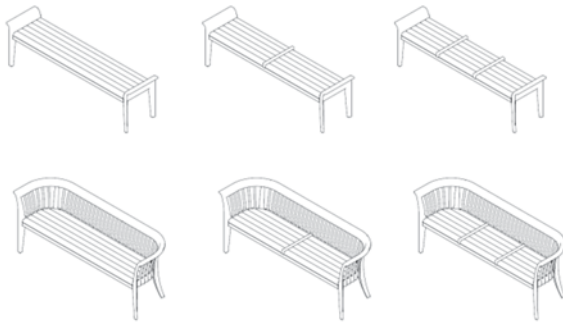
Manufacturer: Sternberg
Model: Augusta Pole 15" ht.
Color: Tavern Market Green (match existing)

Holiday Lighting Attached to Pedestrian Pole

Manufacturer: Temple Display
Model: Signature Series, Arctic Pole, 941-364
Size: 1.5' x 3.5'

ATTACHMENT #2

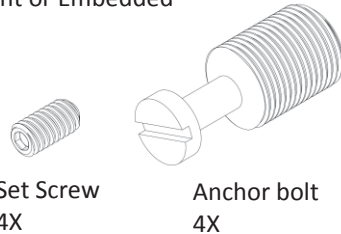
DESIGN ELEMENT DETAILS AND CUT SHEETS (26 SHEETS)



Bench options

Included components:

- Anchoring hardware is included when bench is specified as Surface Mount or Embedded



Tools Required, for Surface Mount or Embedded mounting option

- Safety glasses
- Bench ships fully assembled, optional dividers are factory installed.
- Slotted screwdriver
- Chemical anchoring adhesive (Hilti HIT RE 500 or equivalent)
- Hammer drill with masonry bits
- Blanket or other padded material, for protecting powdercoat finish

For Surface Mount Option:

- 1/8" hex key
- (4) Zinc-plated drop-in screw anchors for 5/8-11 thread, minimum 7/8" thread length, and setting tool, for use with Magni-coated bolts

ASSEMBLE WITH CARE! Pangard II® Polyester Powdercoat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powdercoated parts on packaging foam or other non-marring surface. Do not place or slide powdercoated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

PROCEDURE FOR INSTALLATION:

1. Prepare proper concrete slab as required.
2. Freestanding bench ships with glides installed. Bench can be set in place.

Note: DO NOT DRAG bench across concrete or other rough surfaces. This could damage the powdercoat finish.

For SURFACE MOUNT or EMBEDDED bench:

1. For surface mount or embedded option, tip bench onto protective material and remove glides using a slotted screwdriver.
2. Thread surface mount bolt into casting leg (4) places, as shown in Fig. 1.2.
3. Set bench in place and mark hole locations.
4. Move bench and drill holes according to diameter and depth required by anchoring adhesive manufacturer or drop-in screw anchor manufacturer. Clear holes of debris.

For EMBEDDED bench:

1. Fill holes with chemical anchoring adhesive. Set bench in place.

For SURFACE MOUNT bench:

1. Remove surface mount bolts from castings. If using chemical anchoring adhesive, install in holes as shown in Fig. 1.5. If using drop-in anchors, install according to manufacturer's recommendations and thread in surface mount bolts.
2. After proper curing time, set bench over surface mount bolts and install set screws as shown in Fig. 1.6.

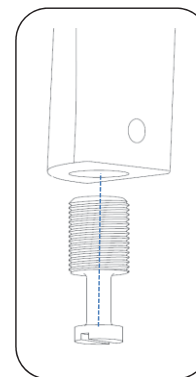


Fig. 1.2

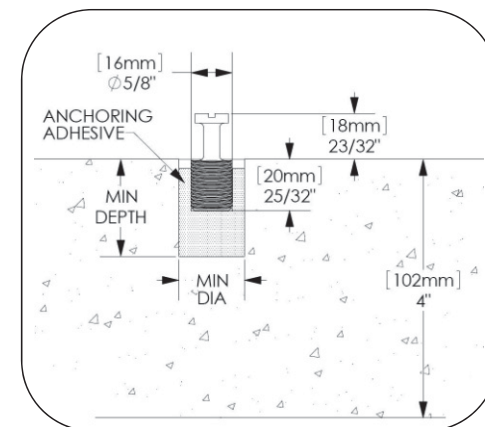


Fig. 1.5

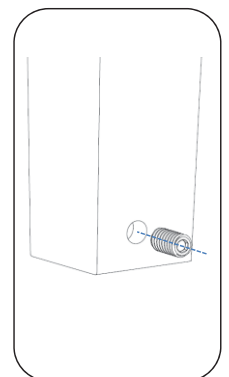
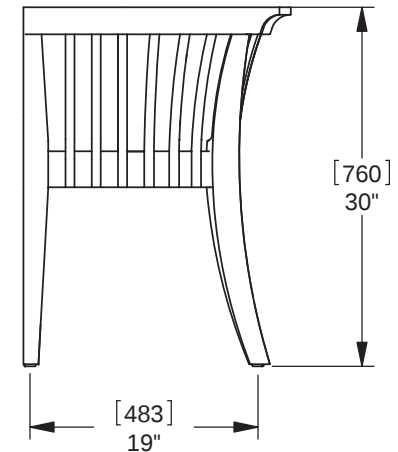
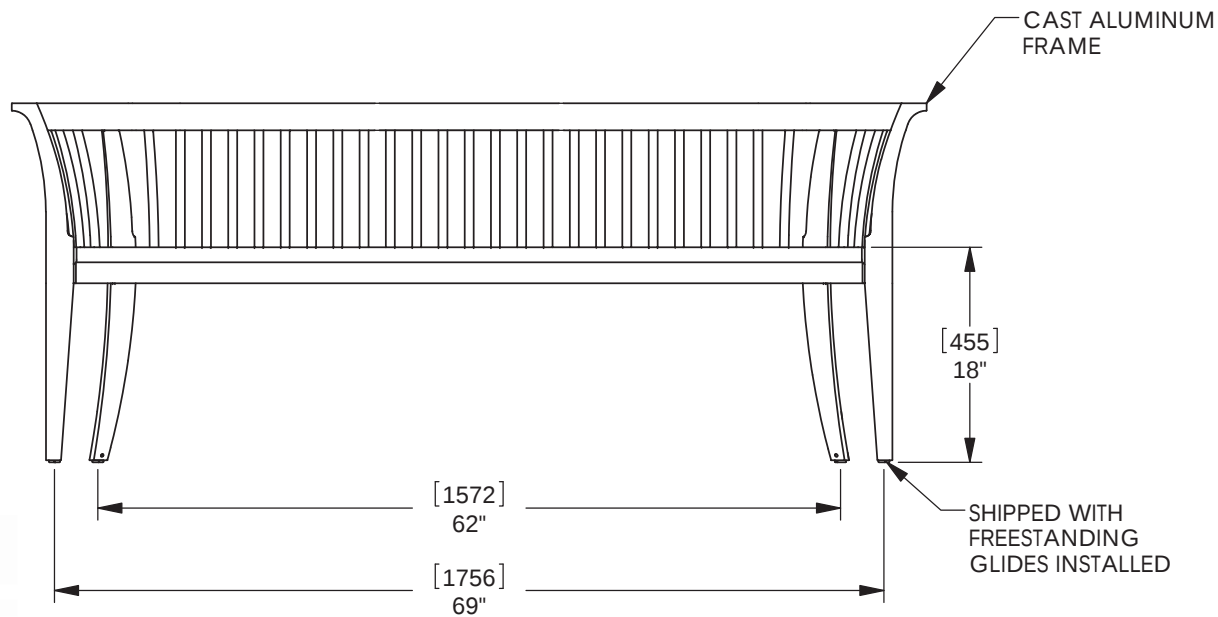
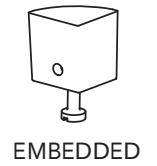
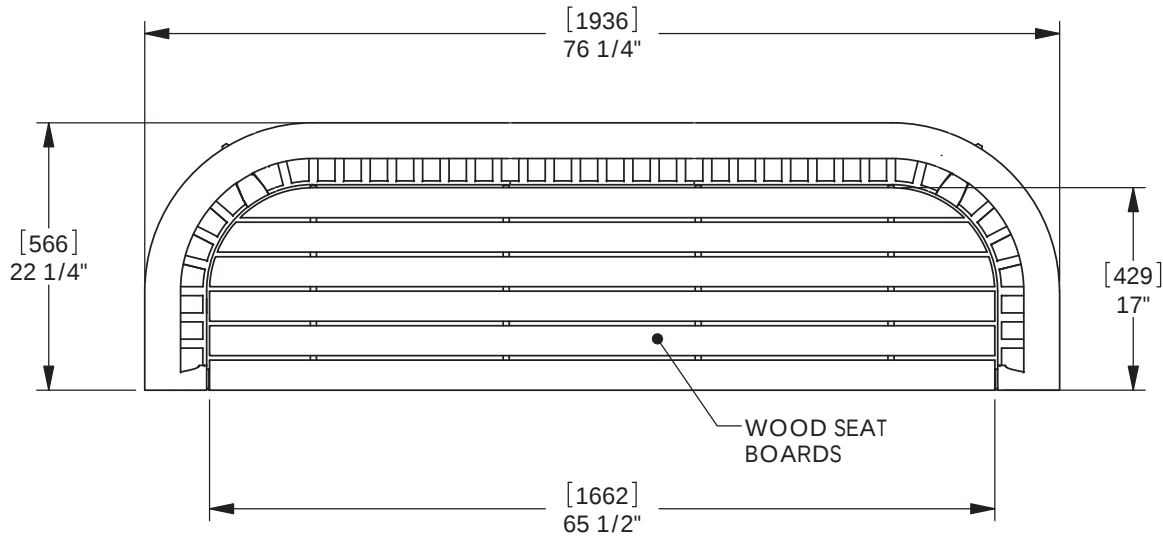
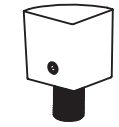
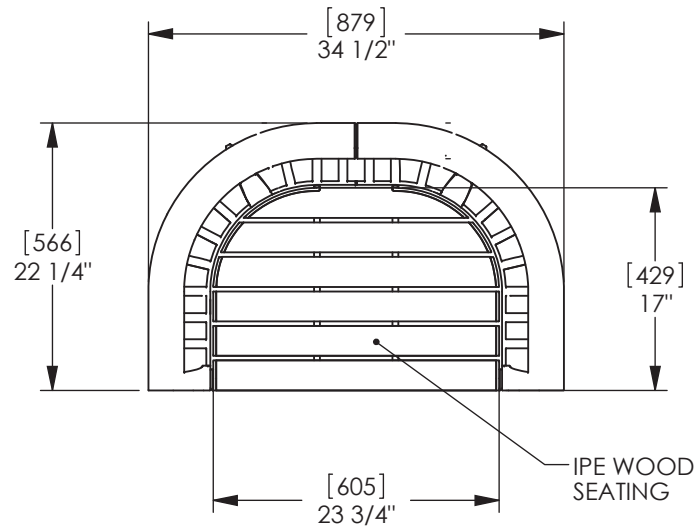


Fig. 1.6

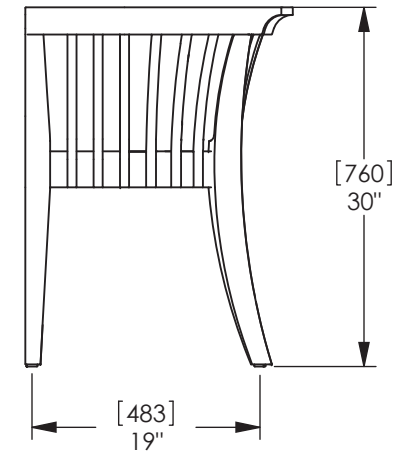
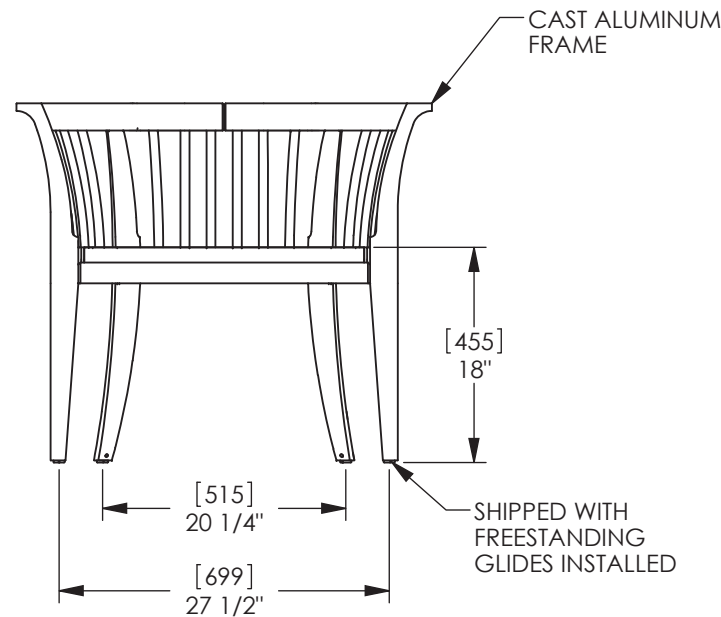


SURFACE
MOUNT

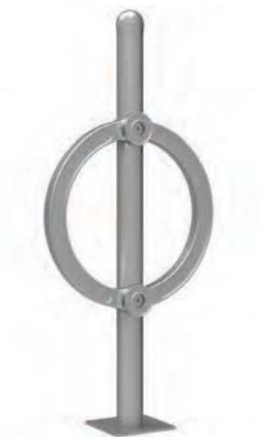
____ APPROVED
 ____ REVISE AND RESUBMIT
 ____ REJECTED

COMMENTS MADE ON THESE SUBMITTALS ARE FOR INFORMATION ONLY. ANY CHANGES REQUIRE RE-SUBMITTAL AND APPROVAL. CUSTOMER IS RESPONSIBLE FOR CONFIRMING ALL QUANTITIES, DIMENSIONS, AND INSTALLATION TECHNIQUES.

BY: ____ DATE: ____



MBR200-S



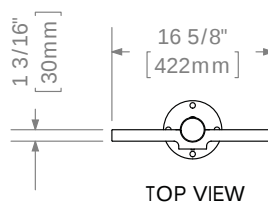
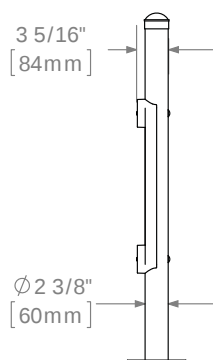
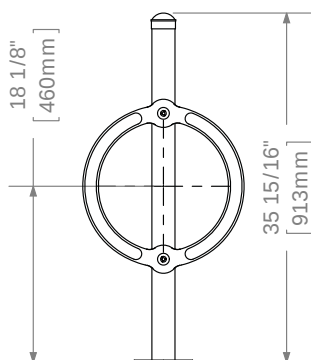
MATERIALS: The bike rack is constructed using galvanized H.S. steel tube and an aluminum casting. Custom raised lettering is available.

FINISH: The bike rack uses a galvanized post with a natural finish on the aluminum ring casting.
The Maglin Powdercoat finish is also available.

INSTALLATION: The bike rack is delivered pre-assembled.

TO SPECIFY: Select MBR200-S
Choose:
- Powdercoat Color
Natural Aluminum/Galvanized Finish
- Surface Mount (MBR200-S-G)

OPTIONS: Personalization



DIMENSIONS:

Height: 35.94" (91.3cm)
Diameter: 16.63" (42.2cm)
Weight: 18.45lbs (8.37kg)



MAGLIN

T 800-716-5506
F 877-260-9393
WWW.MAGLIN.COM
SALES@MAGLIN.COM

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- Details and specifications may vary due to continuing improvements of our products.

4201B AUGUSTA UNLIT BOLLARD

SPECIFICATIONS

Winnetka Streetscape Bollard

GENERAL

The Model 4201B decorative lighted bollard shall be aluminum, one-piece construction. The 17" diameter cast aluminum fluted bases shall be constructed with a 5" diameter straight fluted aluminum shaft. The Model shall be Sternberg Lighting #4201B lighted bollard or #4201B-QR quick release lighted bollard

CONSTRUCTION

The base shall be designed with twelve curved flutes and teardrop decorations and be made of heavy wall, 356 alloy cast aluminum. It shall have a 3/4" thick floor cast as an integral part of the base. The extruded fluted shaft shall have 12 flat flutes, a 3/16" wall thickness and shall be made of ASTM 6061 aluminum and tempered to a T6 condition. The bollard cap will be cast aluminum. The overall height of the bollard shall be 42".

QUICK RELEASE MOUNTING (Optional)

The Model 4201B-QR shall have a quick release option which allows quick removal of the bollard for convenience or emergency access. The burial portion shall be made of ASTM 6061 aluminum extrusion and shall have a keyway and flexible connection system for securing to bollard. The bollard shall have a mated extension and anti-rotation key and padlock slot. The quick release system shall allow for a flush pavement installation after temporary bollard removal.

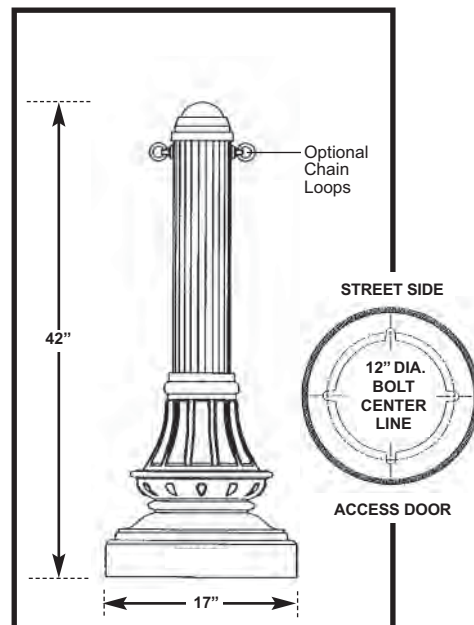
FINISH

Prior to coating, each assembly shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse osmosis water rinsing, and non-chrome sealing to ensure corrosion resistance and excellent adhesion for the finish coating. The finish coating shall be electrostatically applied semi-gloss, super durable polyester powder baked at 400 degrees for a durable and superior, color retentive finish. Our optional antique Verde Green finish and Swedish Iron finish are hand brushed using a 3-step process. The total assembly shall be wrapped in shockproof wrapping or fully enclosed in corrugated cartons.

INSTALLATION

Four, hot dipped galvanized "L" type anchor bolts shall be provided with the post for non-quick release bollard anchorage. Quick release anchorage requires no anchor bolts. A door shall be provided for wiring and anchor bolt access. It shall be secured with tamper-proof, stainless steel hardware. Bollard will be provided with a grounding stud mounted on the base floor opposite the access door.

WARRANTY Five-year limited warranty. See product and finish warranty guide for details.



See installation template for exact door position.

BUILDING A PART NUMBER

PART NUMBER SELECTIONS

BOLLARD MODEL	OPTIONAL CHAIN LOOP	OPTIONS	FINISH
4201B	CL2		VG



MODELS*

- 4201B
- 4201B-QR

OPTIONAL CHAIN LOOP**

- CL1 Chain Loop
- CL2 Chain Loops 180°

* NOTE: For custom heights, designate height after bollard model. Example: 4201B-40"

** TO ORDER CHAIN: Specify total length of chain required for project.

STANDARD FINISHES*

- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

*Smooth Finishes are available upon request

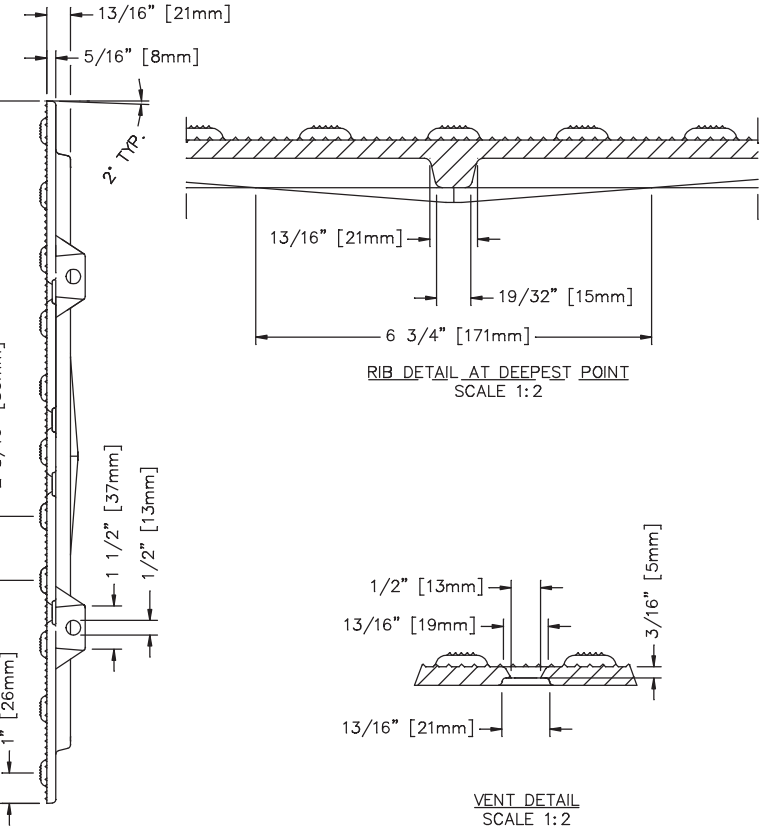
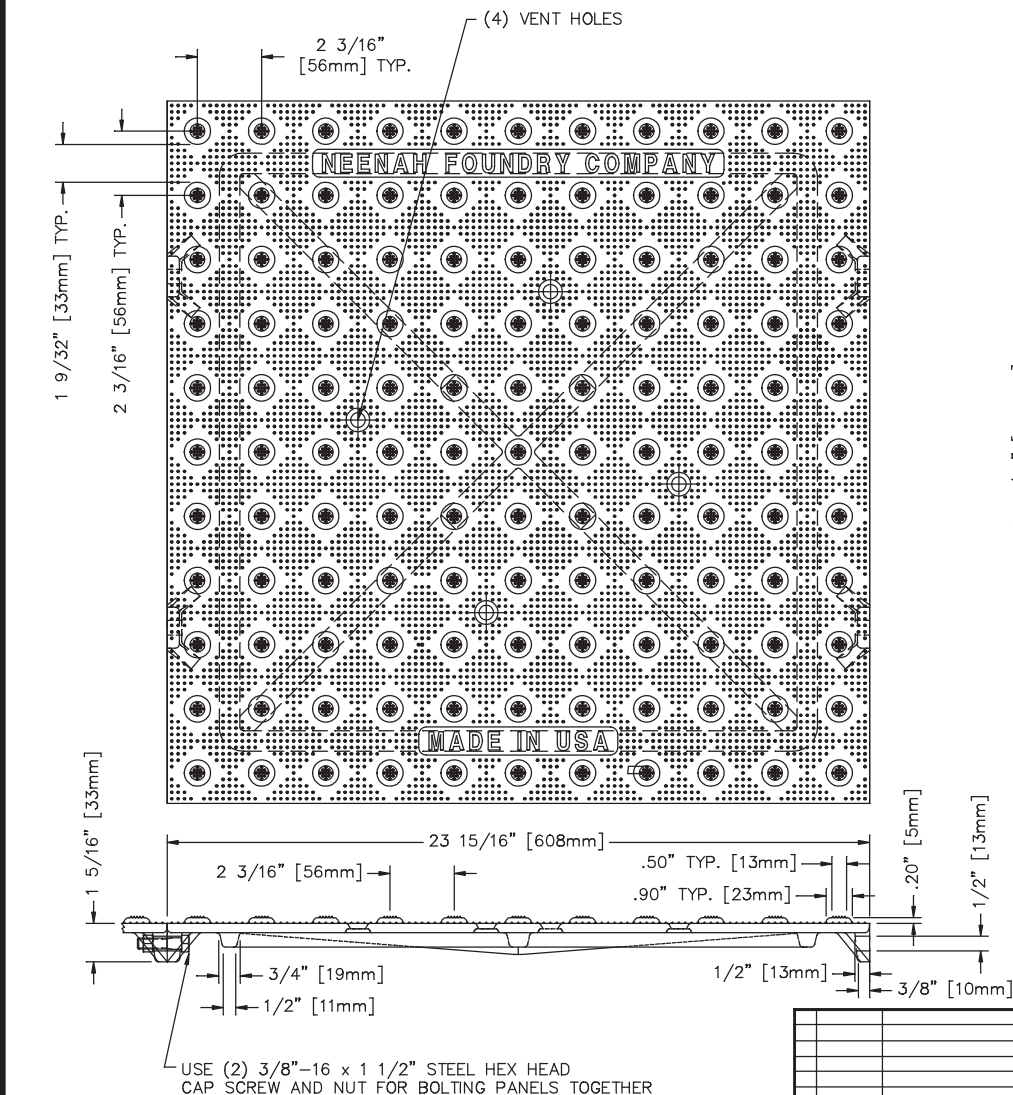
CUSTOM FINISHES

- OI Old Iron
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

STERNBERG SELECT FINISHES

- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

Winnetka Streetscape Detectable Warnings



COMPLIES WITH ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) AND ARCHITECTURAL BARRIER ACT GUIDELINES.

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC].
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 30B
FINISH: NO PAINT
WEIGHT: 62# WAS T1083

CAD DWG. REF: 49840001.DWG-

9

DR.	CSK/MAG	SCALE	1/4"=1"	TITLE:	24" X 24" DETECTABLE WARNING PLATE
CH.		DIM CHK.		NEENAH FOUNDRY COMPANY	
APP.				NEENAH WISCONSIN 54956	
DATE	03-01-2005			NEF	NF- 49840001 B

06-06-2005	CHG. TOP DESIGN FROM PERMAGRIP, CHG. THICKNESS, WAS 3/8"	CSK
05-18-2005	CHG. DRAG TO MATCH 49850002 & 0003, CHG. SWING AT VENTS	CSK
05-10-2005	REVISED BOLT PADS AND RIBS	SMA
04-20-2005	CHG. MATERIAL TO CLASS 30B, WAS 35B	CSK
03-10-2005	CHG. VENT TO 1/2", WAS 7/16", CHG. DOMES, TEXTURE	CSK
03-09-2005	REVISED SPACING BETWEEN DOMES	CSK
03-07-2005	UPDATED COMP. DWG. PER T1083	MAG
DATE	REVISION	INT

Since Neenah Foundry opened in 1872, we've learned a lot about what it takes to create products that stand the test of time.

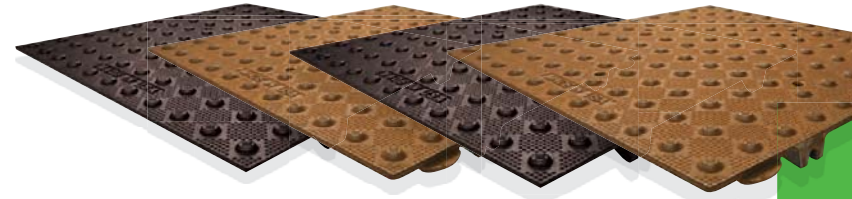
There's a reason you see Neenah products in cities all across the USA—it's because we build them to last. Our Detectable Warning Plates are customizable to your job with trouble-free installation, premium materials, a multitude of options to fit the job and a 5-year warranty.

The only thing more durable than our cast iron is our determination to produce high-quality products worthy of the cities they serve.

Our well-balanced line of Detectable Warning Plates aren't just made in America—they make America. Because America is Built on Neenah.

Withstands the Harshest of Weather Conditions

Our cast iron Detectable Warning Plates are regulatory-compliant while offering appealing aesthetics, exceptional longevity and freedom from maintenance. No matter where they're placed, you can be confident Neenah DWP's will stand strong in any climate.



Neenah's Detectable Warning Plates Offer



Exceptional Durability

- Combine the durability of cast iron with its ability to adhere to concrete
- Eliminate maintenance problems associated with the wearing, peeling, cracking, and delaminating of non-iron materials



Simple Installation

- Installs into prepared concrete in minutes
- Reusable lifting springs simplify the installation process



Aesthetic Appeal

- Recommended to be furnished and installed in their natural unpainted state for best long-term, maintenance-free performance and aesthetic appeal
- Unpainted plates will develop a permanent patina that remains the same throughout their lifetime
- Powder coat paint is available upon request in a variety of colors including federal yellow, black, and brick red



Superior Performance

- The durability of cast iron even withstands snow plow abuse
- They'll look brand new for years to come
- The most durable, long-term product available



Specifications

- Qualified design professionals can use Neenah's Detectable Warning Plates in their plans to meet current ADA and ABA guidelines

The Benefit of Unpainted Plates

Upon exposure to moisture, cast iron plates form a temporary iron oxide scale before darkening to a patina, which is permanent throughout the life of the installation. Look at manhole covers in the street to see how the color matures.

Coefficient of Friction

Excellent non-skid characteristics comply with all ADA and ABA guidelines. The measured coefficient of friction is 0.9.

Winnetka Streetscape Drinking Fountain match existing at Dwyer Park



ADDITIONAL DRINKING FOUNTAINS

Classic Series

MODEL M-C76B OLD STYLE ADA COMPLIANT DRINKING FOUNTAIN WITH BI-LEVEL BOWLS

STANDARD FEATURES

Model M-C76B is a drinking fountain of Victorian-era design. This unit has bi-level bowls to meet ADA requirements. The fountains include polished, cast brass bowls and stainless steel bubblers operated by separate stainless steel pushbutton controls. Standard model is seasonal, not freeze resistant and includes a protective, high gloss, black enamel finish. Heavy-duty cast iron construction with cast brass bowls ensures trouble-free reliability. Field-serviceable components are easily accessible.

SUGGESTED SPECIFICATIONS

Drinking fountain shall be Murdock model M-C76B. Unit shall be furnished with one fountain bowl mounted on the pedestal and one fountain bowl mounted on an arm.

Pedestal and arm shall be heavy duty iron castings and base of pedestal shall have four mounting holes. Pedestal and arm shall be finished with a heavy grade of oil-based black enamel. Access cover shall be secured with vandal resistant stainless steel screws.

Bowls shall be round, solid brass castings. Unit shall be activated by self-closing pushbutton, needing less than 5 pounds of force, which activates an internally mounted valve with adjustable stream regulators controlling the water flow. Bubblers shall be stainless steel and operate on a water pressure range of 30 - 105 psig. All solid brass castings shall conform to ASTM standards B61 and B62. Unit shall conform to ANSI A117.1, 2010 ADA Standards for Accessible Design, ANSI/NSF 61-9, and Public Law 111-380.



☐ Standard Model: M-C76B

OPTIONS

(additional costs may be incurred)

- ☐ - FRU2 Underground freeze-resistant valve for two bowls ¹
- ☐ - FRU3 Underground freeze-resistant valve for three bowls ¹
- ☐ - PF Pet fountain with pushbutton valve ¹
- ☐ Chrome plated cast brass bowls
- ☐ Powder-coated cast brass bowls
- ☐ Polished brass bubblers
- ☐ - Brown Pedestal and arm color brown
- ☐ - Green Pedestal and arm color green

Options Notes:

¹ See separate option sheet.

² This option is not available freeze-resistant.

Custom color finishes available upon request.

Complies
with the
following
standards:



Federal
Public Law
111-380
(No Lead)



Member of
U.S. Green
Building
Council



Recyclable
Product



Water
Conserving
Product

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

MURDOCK MFG. • 15125 Proctor Avenue • City of Industry, CA 91746 USA
Phone 800-453-7465 or 626-333-2543 • Fax 626-855-4860 • www.murdockmfg.com

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INTERNATIONAL

M-C76B

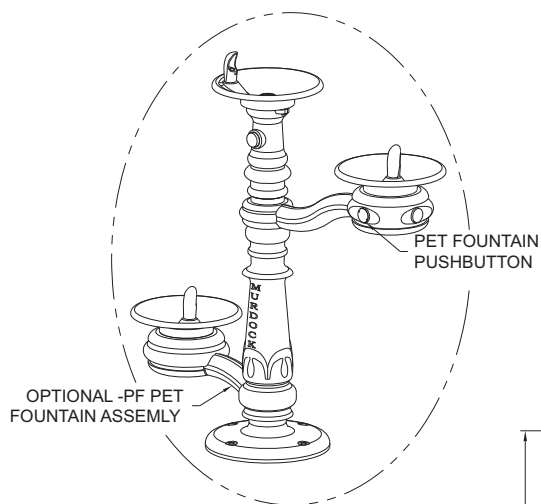
Agenda Packet P. 22 04/23/18



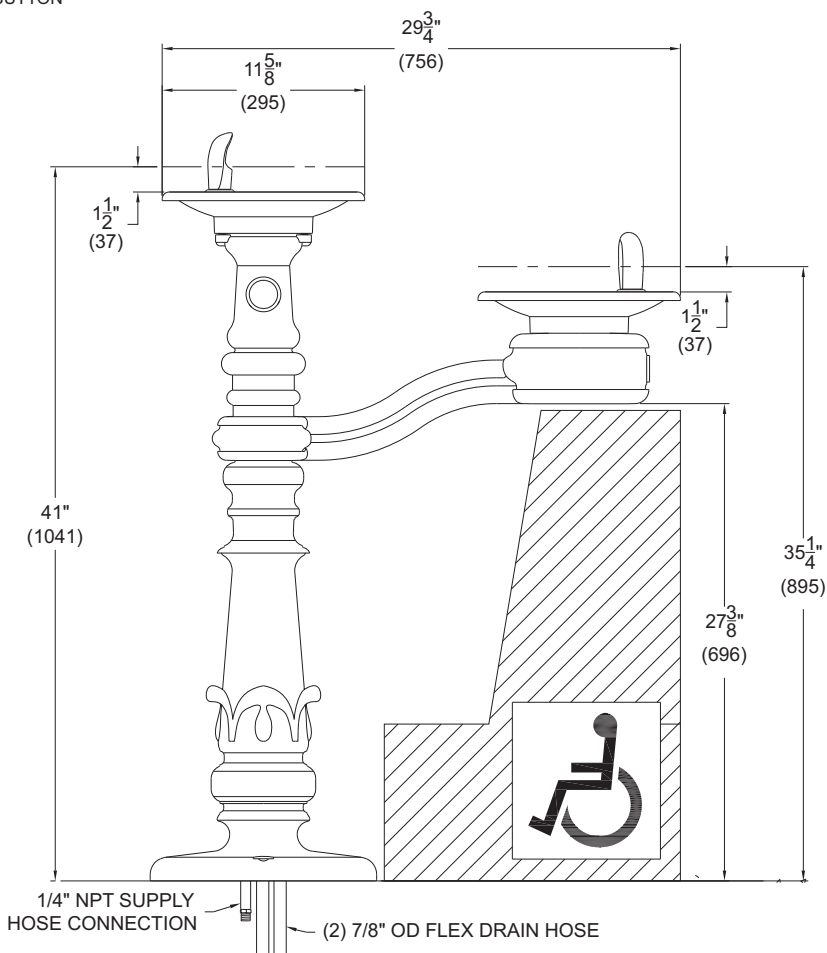
TRADITIONAL DRINKING FOUNTAINS

Classic Series

MODEL M-C76B OLD STYLE ADA COMPLIANT DRINKING FOUNTAIN WITH BI-LEVEL BOWLS



**SHOWN WITH OPTIONAL
-PF FOR REFERENCE**



* Valve specifications:
Minimum/Maximum Pressure
30 to 100 psi.

Murdock Mfg.™ warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Murdock's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Murdock™ is notified in writing within one year from date of shipment, F.O.B. Industry, California.

SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature _____ Date _____
(Approval for Manufacturing)

All dimensions are subject to manufactures tolerance of plus or minus 1/2" nominal and subject to change without notice. Murdock assumes no responsibility for use of void or superseded data. Dimensions may change with the addition of optional accessories. Murdock Mfg.™, Member of Morris Group International™. Please visit www.murdockmfg.com for most current specifications.

MURDOCK MFG. • 15125 Proctor Avenue • City of Industry, CA 91746 USA
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INTERNATIONAL

M-C76B

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**Winnetka Streetscape
Holiday Pole Décor
Mfr: Temple Display
Model: Artic Pole**



HYDRA STL Series 120V Exterior LED Light String

Features

- Ideal for decorative lighting above patios, walkways and plazas
- Includes replaceable 120V medium-base LED lamps
- Available with 1800K clear lamps, 2700K frosted lamps or 2700K milky white lamps
- Consumes only 2W per lamp
- Standard 12", 18" or 24" lamp spacing (Consult factory for custom spacing)
- ETL Listed for wet location
- Maximum 500 feet per circuit based on 12" lamp spacing.
- Intended for lamp-down applications only

WIRE: UL Listed, 12AWG
Stranded Copper,
Black PVC Insulation,
Rated 150V

SOCKET: UL Listed, black phenolic
Medium Base,
Rated 250V 60W

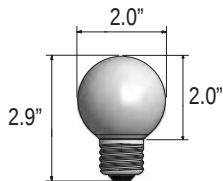
- LED LAMP (Included):
- 120V
 - Medium base (E26)
 - 1800K Clear
 - 2700K Frosted
 - 2700K Milky white
 - 25,000 Hrs averaged rated life
 - 2.0W each
 - Not recommended for dimming

Light String Weight

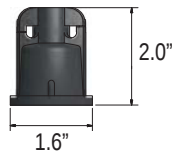
Per ft including lightstrip and LED lamp

12" on center	3.00 oz	per ft
18" on center	2.33 oz	per ft
24" on center	2.00 oz	per ft

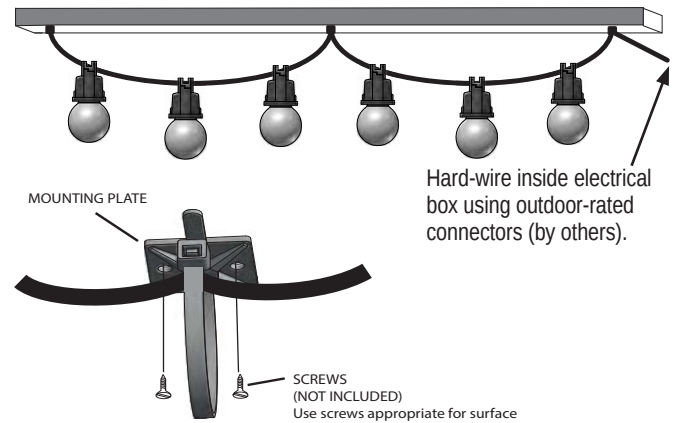
LED Lamp Detail



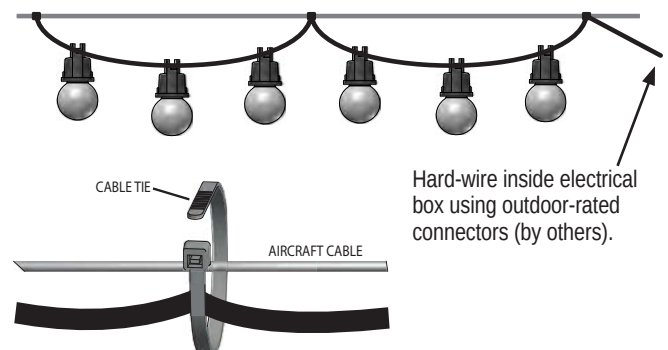
Socket Detail



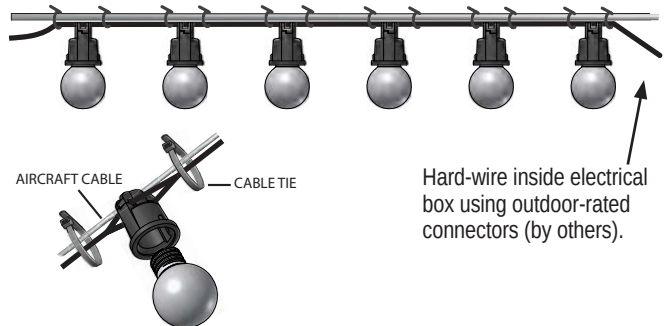
HYDRA STL shown mounted with drop, to flat secure surface such as beam or truss. Specify mounting plates with cable ties. Fasten at least every 6 feet.



HYDRA STL shown mounted with drop, to aircraft cable (by others). Ensure that aircraft cable is taut and secured. Specify cable ties. Use at least one cable tie every 6 feet.



HYDRA STL shown mounted with no drop, to aircraft cable (by others). Ensure that aircraft cable is taut and secured. Specify cables ties. Use two cable ties per socket; one on each side.



Footcandle Summary (Based on one Gamma LED medium base lamp)

Clear Lamp

distance	fc
12"	5.53
24"	2.46
36"	1.43
48"	0.91
60"	0.65
72"	0.49
84"	0.38
96"	0.31

Frosted Lamp

distance	fc
12"	10.40
24"	3.91
36"	2.08
48"	1.28
60"	0.89
72"	0.66
84"	0.50
96"	0.42

Milky White Lamp

distance	fc
12"	16.10
24"	5.55
36"	2.91
48"	1.81
60"	1.25
72"	0.92
84"	0.69
96"	0.58

How to Specify HYDRA STL Series

HYA - STL -		-	
	LED Lamp		Socket Spacing
	GC 1800K LED clear globe		12 12" on center
	GF 2700K LED frosted globe		18 18" on center
	GM 2700K LED milky white globe		24 24" on center
			Consult factory for custom spacing
Example			
HYA - STL -	GC	-	24

Mounting Plate with Cable Tie

(STL-MC)
Order at least one set per 6ft of HYDRA STL when mounting to flat surface.



Cable Ties

(STL-CT)
Order at least one per 6ft of HYDRA STL if mounting with drop to aircraft cable.
Order at least two per socket if mounting with no drop to aircraft cable.



4200 AUGUSTA SERIES

SPECIFICATIONS

Winnetka Streetscape
Light Pole
match existing

The _____ ft tall* decorative post shall be aluminum, one-piece construction. The 17" diameter cast aluminum fluted base shall be constructed with a _____ inch diameter aluminum shaft. The model shall be Sternberg Lighting #4200 or #4200R for candy cane poles. The pole shall be U.L. or E.T.L. listed in U.S. and Canada.

CONSTRUCTION

The base shall be designed with twelve curved flutes and teardrop decorations and be made of heavy wall, 356 alloy cast aluminum. It shall have a 3/4" thick floor cast as an integral part of the base. The shaft shall be double circumferentially welded internally and externally to the base for added strength.

_____ The **smooth tapered shaft** shall be made of ASTM 6063 extruded aluminum and tempered to a T6 condition.

_____ The **smooth straight shaft** shall be made of ASTM 6063 extruded aluminum and tempered to a T6 condition.

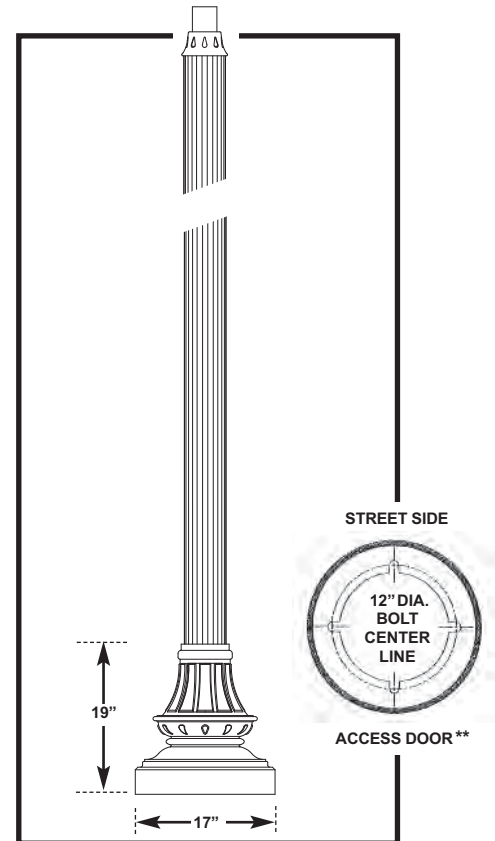
_____ The **straight fluted shaft** shall be made of ASTM 6061 extruded aluminum and tempered to a T6 condition. It shall have a decorative fluted 3" O.D. tenon.

_____ The **tapered fluted shaft** shall be made of heavy wall, 356 alloy cast aluminum.

INSTALLATION

Four 1/2" diameter, hot-dipped galvanized "L" type anchor bolts shall be provided with the post for anchorage. A door shall be provided for wiring and anchor bolt access. It shall be secured with tamper proof, stainless steel hardware. Post will be provided with a grounding stud mounted on the base floor opposite the access door.

Indicate the type of shaft needed (above)



**See installation template for exact door position.
Bolt circle dimensions may change on taller poles.

Cast Aluminum-Extruded Poles

17" Diameter Base x 19" High

4"-3" OD 42 ___' T4 08' 10' 12' 14' SMOOTH TAPERED SHAFT SMOOTH STRAIGHT SHAFT AVAILABLE SPECIFY AS: 4" OD 42 ___' P4	5"-3" OD 42 ___' T5 08' 10' 12' 14' 16' SMOOTH TAPERED SHAFT † SMOOTH STRAIGHT SHAFT AVAILABLE SPECIFY AS: 5" OD 42 ___' P5	4" OD 42 ___' FP4 08' 10' 12' 14" † STRAIGHT FLUTED SHAFT	5" OD 42 ___' FP5 08' 10' 12' 14' 16' † STRAIGHT FLUTED SHAFT	5"-3" OD 42 ___' TFP5 09' 10' 12' 14' TAPERED FLUTED SHAFT
--	--	---	---	--

* For candy cane poles insert _____ AG ft (feet - above grade height). See diagram on reverse side.

† Tenon not supplied if fixture or arm slips shaft O.D.

4200 AUGUSTA SERIES

POSTS / OPTIONS / POST CAPS

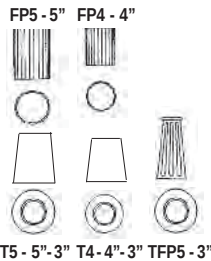
BUILDING A PART NUMBER

Straight Poles

MODEL / HEIGHT / SHAFT	POST CAP CENTER	OPTIONS	FINISH
42 12 FP4	BCC	FH	BK

Part Number Selections

MODEL	HEIGHT	SHAFT
• 42	• 08 • 0 • 10 • 12 • 14 • 16	• T4: 4"-3" Tapered Smooth* • T5: 5"-3" Tapered Smooth • P4: 4" Straight Smooth • P5: 5" Straight Smooth • FP4: 4" Straight Fluted* • FP5: 5" Straight Fluted • TFP5: 5"-3" Tapered Fluted**
* Maximum recommended height 14" ** Available in 9', 10', 12', 14'		
OPTIONS AVAILABLE		
• GFI	• SBAR	• PCD
• GFB	• DSPA	• SH
• FH	• DHPA	• SB
• SBA	• PA478	• H
• DBA		
• DB Direct Burial • HB Helix Burial		



Candy Cane Poles

MODEL / HEIGHT / SHAFT	HEIGHT ABOVE GRADE	OPTIONS	FINISH
42 00 RT4	12 AG		BK

Part Number Selections

MODEL	HEIGHT	SHAFT	ABOVE GRADE
• 42	• 00	• RT4: 4"-3" Tapered Smooth • RT5: 5"-3" Tapered Smooth • RP4: 4" Straight Smooth • RP5: 5" Straight Smooth • RFP4: 4" Straight Fluted • RFP5: 5" Straight Fluted • RTFP5: 5"-3" Tapered Fluted**	• 08 AG • 10 AG • 11 AG • 12 AG • 13 AG • 14 AG • 15 AG • 16 AG
			** Available in 11', 12', 14', 16, AG

POST CENTER CAP
(If Required)

- BCC
- FCC
- SCC
- TFCC
- SSCC

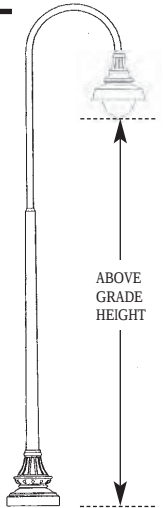
STANDARD FINISHES*

- BKT Black Textured
 - WHT White Textured
 - PGT Park Green Textured
 - ABZT Architectural Medium Bronze Textured
 - DBT Dark Bronze Textured
- *Smooth Finishes are available upon request
- CUSTOM FINISHES**
- OI Old Iron

- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

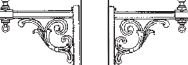
STERNBERG SELECT FINISHES

- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured



OPTIONS AVAILABLE

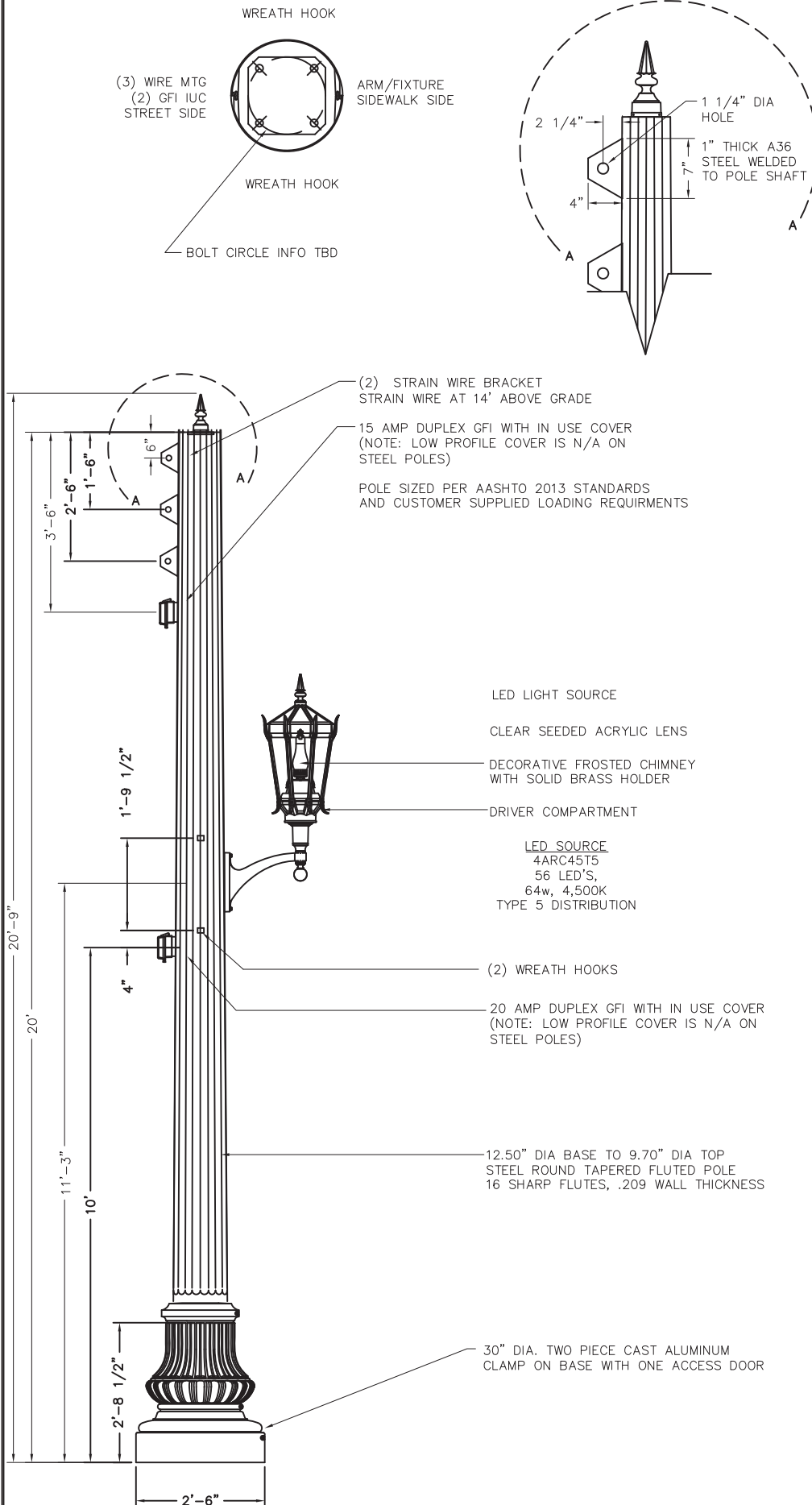
See Accessories Section for more options and information

	GFI - Ground Fault Interrupter mounts in the pole		SBAR -Single Banner Arm and Ring		PCD - Photo Control mounts on door on pole
	GFB - Ground Fault Breaker <i>inside</i> base		DSPA -Double Stepped Planter Arms mount on either side		SH - Speaker Hub for mounting speaker, floodlight or signal
	FH - Flag Pole Holder mounts on the pole		DHPA -Double Hooked Planter Arms mount on either side		SB - Sign Bracket mounts on pole to hold signs
	SBA - Single Banner Arm mounts on the pole		PA478 -Decorative Planter Arms with planter rings		WHK - Wreath Hook mounts on pole to hold decorations
	DBA - Double Banner Arms mount on same side of the pole				

POST CENTER CAPS (If Required)

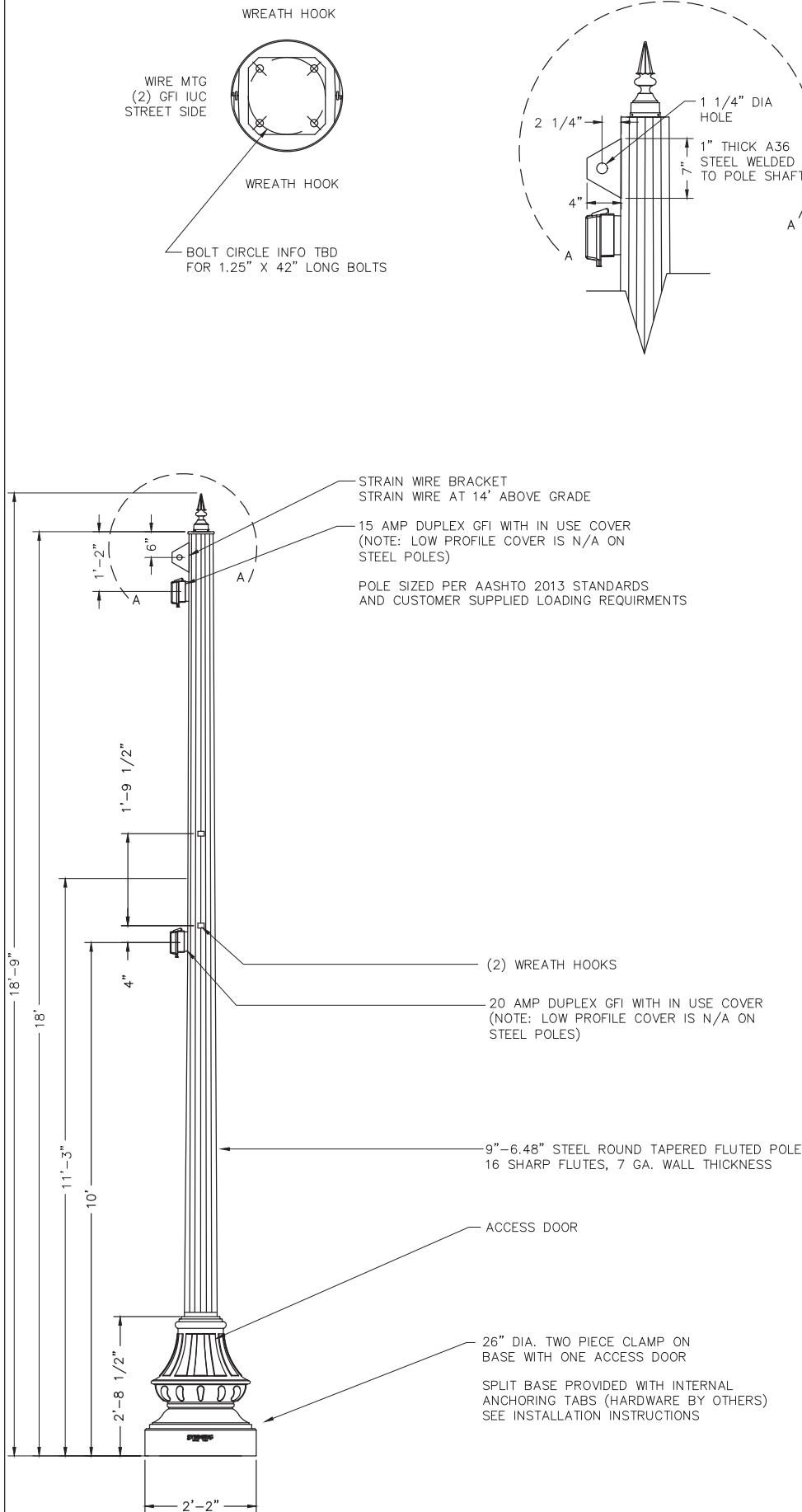
	BCC - Ball Center Cap		FCC - Finial Center Cap		SCC - Spiked Center Cap		TFCC - Tall Finial Center Cap		SSCC - Side Spiked Center Cap
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Winnetka Streetscape Combination Light Pole



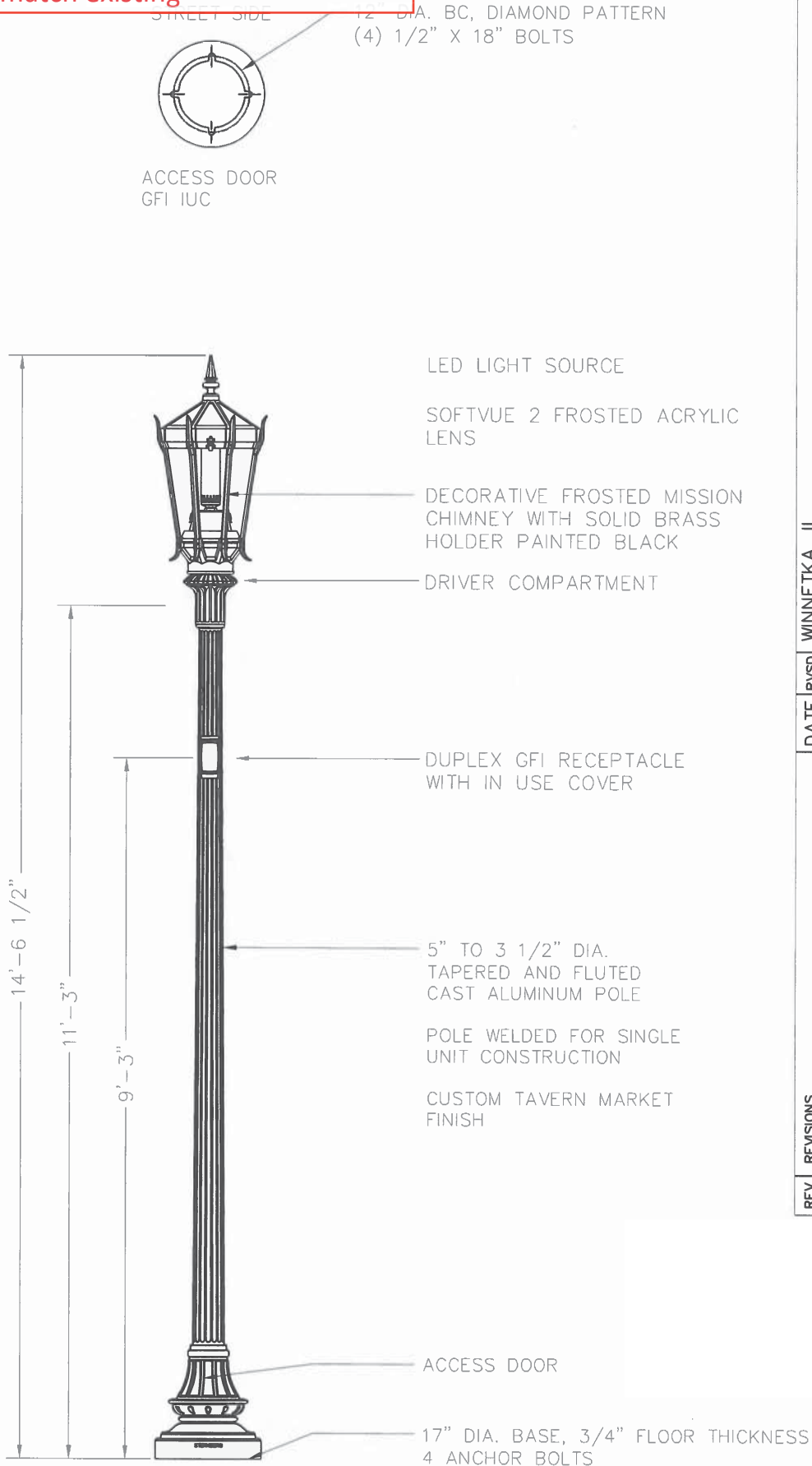
REV	REVISIONS		DATE	RVS'D	WINNETKA, IL WINNETKA, IL	DRAWING NUMBER
A	ORIGINAL		1/30/18			JG
B	LOADING REVISED PER CUSTOMER		3/31/19	SS	1AM-MSB05ALED-3-4ARC45T5-MDL03-CSA-FHC/480PM/WA30-20SR TF -16SF/(3)SWB-(2)GFI-IUC/(2)WHK-SSCC-CM	
					 SternbergLighting ESTABLISHED 1923 / EMPLOYEE OWNED	SC30090B
					POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"	

Winnetka Streetscape
Festoon Pole



DRAWN	JG	SCALE	DRAWING NUMBER
WINNETKA, IL	WINNETKA, IL	8518SR TF-16SF / SWB-(2)GFI-IUC/(2)WHK-SSCC-CM	
POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"			
SternbergLighting ESTABLISHED 1923 EMPLOYEE OWNED			
REV	REVISIONS	DATE	RVSD
A	ORIGINAL	4/26/18	

**Winnetka Streetscape
Pedestrian Light Pole
match existing**



REV	REVISIONS	DATE	RVSD	WINNETKA, IL WINNETKA, IL	JG
A	ORIGINAL	7/13/17		PT-MS805ALED-73-3ARC27T3-MDL03-CSA-FHD-PEC-FMC/4211'3" TFP5/	
B	GENERAL REVISIONS PER REQUEST			1-GFI-LPIUC/CM	
				 ESTABLISHED 1983, EMPLOYEE OWNED	
				POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"	
				DRAWING NUMBER	SC28774

Job Name: _____	Client Name: _____
Job Location - City: _____ State: _____	Created By: _____ Date: _____
Product: DS210R660A300D1FPSC-- Quote: _____	Customer Approval: _____ Date: _____

Winnetka Streetscape
Vehicular Scale Light Pole
match existing

SPECIFICATIONS

Pole - The pole shaft conforms to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.14 in/ft. Pole can be either a one-piece or two-piece field assembled unit.

Pole Top - A pole top plate and tenon are provided for top mount luminaire and/or bracket. A removable pole cap is provided for poles receiving drilling patterns for side-mount luminaire arm assemblies.

Handhole - A covered handhole and grounding provision with hardware is provided.

Full Base Cover - The two-piece standard full base cover is fabricated from ABS plastic. Valmont reserves the right to provide an optional two-piece steel full base cover on some applications depending upon the finish requirement and/or pole base diameter. Optional Dart Square-2T cast and decorative base covers available as special order.

Nut Covers - Optional anchor bolt nut covers are available upon request.

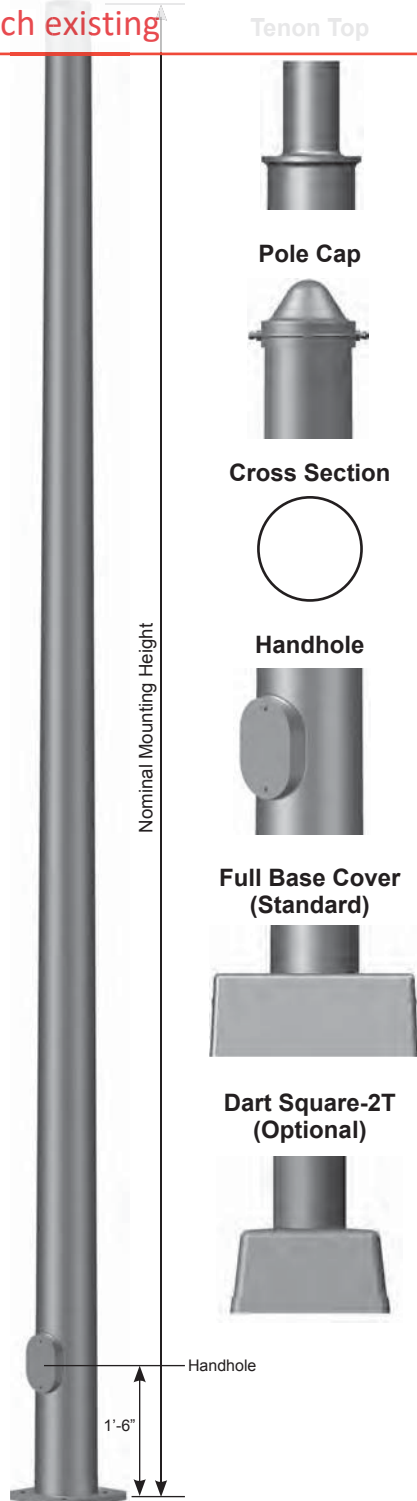
Anchor Base - The anchor base (base plate) conforms to ASTM A36.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

Hardware - All structural fasteners are galvanized high strength carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

Finish - Standard finishes are galvanized, prime painted or any of Valmont's V-PRO™ Protection Systems. Additional finish options available upon request.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.



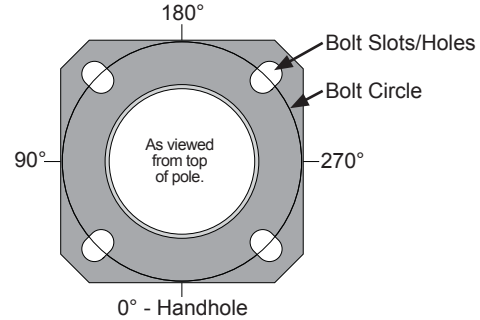
ROUND TAPERED STEEL DS210 Light Duty

Job Name: _____	Client Name: _____
Job Location - City: _____ State: _____	Created By: _____ Date: _____
Product: DS210R660A300D1FPSC-- Quote: _____	Customer Approval: _____ Date: _____

ANCHORAGE DATA

POLE BASE OD (IN)	WALL THK (GA)	BASE PLATE		ANCHOR BOLTS				
		BOLT/CIRCLE DIA (IN)	± (IN)	SQUARE (IN)	THK (IN)	DIA x LENGTH x HOOK (IN)	PROJECTION (IN)	± (IN)
5.90	11	9.00	0.50	10.00	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.50	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.60	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	11	10.00	0.50	10.88	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	7	10.00	0.50	10.88	1.000	1.00 x 36.00 x 4.00	4.25	0.25
7.30	11	10.50	0.50	11.25	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.82	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	7	11.00	0.50	11.50	1.250	1.25 x 42.00 x 6.00	5.00	0.25
8.50	11	11.50	0.50	12.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	11	12.50	0.50	12.38	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	7	12.50	0.50	12.38	1.250	1.25 x 42.00 x 6.00	5.00	0.25
9.50	11	13.00	0.50	13.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	11	13.50	0.50	14.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	7	13.50	0.50	14.00	1.250	1.25 x 42.00 x 6.00	5.00	0.25

Anchor Base Detail



LOAD AND DIMENSIONAL DATA

DESIGN INFORMATION							POLE DIMENSIONS				MODEL NUMBER
NOMINAL MOUNTING HEIGHT	80 MPH w/1.3 GUST		90 MPH w/1.3 GUST		100 MPH w/1.3 GUST		BASE OD (IN)	TOP OD (IN)	WALL THK (GA)	STRUCTURE WEIGHT ² (LBS)	
	MAX EPA ¹ (SQFT)	MAX WEIGHT ¹ (LBS)	MAX EPA ¹ (SQFT)	MAX WEIGHT ¹ (LBS)	MAX EPA ¹ (SQFT)	MAX WEIGHT ¹ (LBS)					
20'-0"	19.3	482	15.1	377	12.2	305	5.90	3.10	11	140	R590A200
	24.2	605	19.3	482	15.6	390	6.50	3.70	11	160	R650A200
25'-0"	12.5	312	9.9	247	8.0	200	5.90	2.40	11	155	R590A250
	20.3	507	16.2	405	13.1	327	7.00	3.50	11	200	R700A250
	30.5	760	24.0	625	19.8	495	7.00	3.50	7	280	R700E250
	11.7	292	9.3	232	7.5	187	6.60	2.40	11	200	R660A300
30'-0"	18.9	473	14.9	373	12.0	300	8.00	3.80	11	265	R800A300
	33.5	838	27.0	675	22.0	550	8.00	3.80	7	380	R800E300
35'-0"	11.2	280	8.9	222	7.1	177	7.30	2.40	11	250	R730A350
	18.9	472	15.1	377	12.2	305	8.50	3.60	11	315	R850A350
	23.2	580	18.2	455	14.5	363	9.50	4.60	11	370	R950A350
39'-0"	10.7	267	8.5	212	6.6	165	7.82	2.40	11	285	R782A389
	17.2	430	13.5	338	10.8	270	9.00	3.58	11	355	R900A389
	28.5	715	23.0	575	19.0	475	9.00	3.58	7	515	R900E389
45'-0"	17.4	435	13.5	338	10.6	265	10.00	3.70	11	450	RT00A450
	28.5	715	23.0	575	19.0	475	10.00	3.70	7	650	RT00E450
50'-0"	13.2	330	10.6	265	8.3	208	10.00	3.00	11	475	RT00A500
	20.5	512	16.5	412	13.6	340	10.00	3.00	7	680	RT00E500

DS210 Heavy Duty
poles available at
valmontstructures.com

existing steel pole to
be replaced with
aluminum pole -
currently under design

1. Maximum EPA (Effective Projected Area) and weight values are based on top mounted luminaires and/or brackets having a centroid 2'-6" above the Nominal Mounting Height. Variations from sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.
2. Structure weight is a nominal value which includes the pole shaft and base plate only.

PRODUCT ORDERING CODES

DESIGN SERIES	MODEL NUMBER	FIXTURE MOUNTING	FINISH	COLOR	V-PRO™ PROTECTION SYSTEM	OPTIONS
DS210	R660A300	D1	FP	SC	--	
	R590A200 R650A200 R590A250 R700A250 R700E250 R660A300 R800A300 R800E300 R730A350 R850A350 R950A350 R782A389 R900A389 R900E389 RT00A450 RT00E450 RT00A500 RT00E500	Drill Mounting D1 = 1 Luminaire D2 = 2 @ 180° D3 = 3 @ 120° D4 = 4 @ 90° D5 = 2 @ 90° D6 = 3 @ 90° Tenon Mounting P2 = 2.38" OD x 4.00" P4 = 4.0" OD x 6.00" PL = 2.40" OD Plain Top	GV = Galvanize PP = Prime Paint FP = Finish Paint GF = Galvanized + Finish Paint	-- = Galvanize -- = Prime Paint WH = White ST = Sandstone BK = Black SM = Silver Metallic SL = Silver LG = Light Gray SG = Slate Gray DT = Dark Tan MB = Medium Bronze CB = Bronze DB = Dark Bronze BN = Brown HG = Hunter Green DG = Dark Green RD = Red SC = Special Color (Contact Factory)	-- = Galvanize -- = Prime Paint V1 = V-PRO 1 Basic 1 Coat Powder. V2 = V-PRO 2 2 Coat Powder or Liquid. Includes epoxy primer & top coat. V3 = V-PRO 3 2 Coat Powder or Liquid. Includes zinc primer & top coat. V4 = V-PRO 4 2 Coat Powder or Liquid. Includes zinc primer & premium top coat.	See Accessories at valmontstructures.com (Please Specify)

Agenda Packet P. 32

Winnetka Streetscape

Litter and Recycling Receptacle

(existing receptacles are green; selected color to be black)

landscapeforms®

SCARBOROUGH

Product Data Sheet



Receptacles

- Scarborough™ receptacles are durably constructed of metal side panels and a spun metal top to meet the demands of active public spaces.
- The 30-gallon polyethylene liner coordinates with specified powdercoat color.
- Receptacles are standard with a freestanding/surface mount option.
- Metal support legs are 1"x 1" square.
- Vertical metal straps 1-1/2" x 3/16".
- Vertical metal bars are 3/8" square.
- Straps and bars are welded to metal bands.
- Tubular steel collar is 1-1/4" dia., 0.120" wall thickness.
- Tops are formed of spun metal.
- Pop-up rod is stainless steel.
- An optional keyed lock may be added for security, and an optional ash pan may be specified for the side-opening receptacle.

Litter Receptacle

- Choose from vertical strap or square bar side panels.
- Top or side-opening receptacles may be specified.
- The receptacle lid lifts up and swings to the side for easy litter removal.
- Ash pan option available for side-open receptacle.

Recycling Receptacle

- Only available with vertical strap panels.
- Choose opening style: 5" diameter, 3" x 11" newspaper slot, or standard side open.
- Select single-use or dual-use
- 5" x 7" signage plates are welded to the straps.
- Single-use has the same sign under both openings.
- Dual –use has two different signs under openings.
- Select signage wording from options available on Scarborough's product page at www.landscapeforms.com
- Custom signage wording available for an upcharge.
- The receptacle lid lifts up and swings to the side for easy litter removal.

LITTER	STYLE	DIAMETER	HEIGHT	PRODUCT WEIGHT
	top-opening	25"	33"	bar: 72 lb strap: 77 lb
	side-opening	25"	41"	bar: 75 lb strap: 81 lb
	strap details	–	–	–
	square bar details	–	–	–
	ash pan	–	–	–
RECYCLING	STYLE	DIAMETER	HEIGHT	PRODUCT WEIGHT
	5" diameter	25"	41"	82 lb.
	3"x11" slot	25"	41"	82 lb.
	standard side-open	25"	41"	82 lb.
	strap details	–	–	–

Our Purpose Is To Enrich Outdoor Spaces

We believe in the power of design and its ability to influence and elevate the quality of public space. High quality products and outstanding customer experience makes us one of the world's premier designers and manufacturers of outdoor commercial furnishings.

Scarborough™ Specifications

Bench

Woven and horizontal strap seat styles may be specified for backed or backless benches. Backed benches are offered in 24", 48", 72", or 96" lengths. Backless benches are offered in 48", 72", or 96" lengths. Center arm may be specified on backed or backless benches in 48", 72", or 96" lengths. Bench in 96" length available with two intermediate arms.



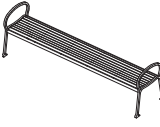
center arm

Support end frames are 1" x 1" solid steel, joined by 1-1/2" dia., .120" wall thickness tubular steel. Seating panels are horizontal steel straps (1-1/2" x 3/16") or woven stainless steel straps (1-1/2" x 1/8"). Scarborough bench comes standard with surface/freestanding mount support.

backed horizontal strap

				
96" with two intermediate arms	72" with center arm	48"	24"	
28" x 34" x 96"	28" x 34" x 72"	28" x 34" x 48"	28" x 34" x 24"	d x h x l

backless horizontal strap

			
96"	72"	48"	
26" x 28" x 96"	26" x 28" x 72"	26" x 28" x 48"	d x h x l

Finishes

Metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading. Call for standard color chart.

To Specify

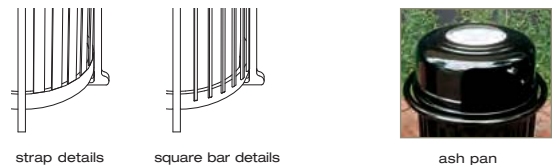
Bench: Specify backed or backless, bench length, horizontal strap or woven seat style, with or without center/intermediate arm, and powdercoat color.

Litter receptacle: Select top- or side-opening, vertical strap or square bar side panel, powdercoat color. If optional powdercoat color is specified, select standard powdercoat color for liner. Options: keyed lock; ash pan on side-opening units.

Litter Receptacles

Metal support legs are 1" x 1" square. Vertical metal straps are 1-1/2" x 3/16". Vertical metal bars are 3/8" x 3/8" square. Straps and bars are welded to metal bands. Tubular steel collar is 1-1/4" dia., .120" wall thickness. Tops are formed of spun metal. Pop-up rod is stainless steel. Receptacles have 30-gallon capacity. Polyethylene liner color coordinates with standard powdercoat offering. Receptacles are standard with freestanding/surface mount support. Ash pan on side-opening units and keyed lock options are available.

		
top-opening	side-opening	
25" x 33"	25" x 40"	dia x h



www.landscapeforms.com

Visit our website for product details, color charts, technical sheets, sales office locations. Download JPG images, brochure PDF, CAD details, CSI specifications.

Scarborough woven seat design is protected by U.S. Patent Nos. D366,773. Scarborough is designed by Arno Yurk, AIA, IDSA. Specifications are subject to change without notice. Scarborough is manufactured in U.S.A. Location photography: Country Club Plaza, Kansas City, MO. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level. © 2005 Landscape Forms, Inc. Printed in U.S.A.



Powdercoat finish on metal parts contains no heavy metals, is HAPS-free and has extremely low VOCs. Bench materials are 100% recyclable. Consult our website for recycled content.

landscapeforms®

800.521.2546 269.381.3455 fax
431 Lawndale Avenue, Kalamazoo, MI 49048
www.landscapeforms.com

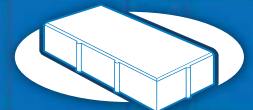
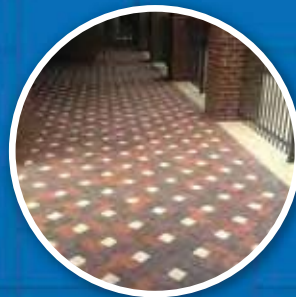
Winnetka Streetscape
Clay Brick Pavers
match existing, North Shore Blend



2 1/4 x 9 x 3 Permeable Boardwalk
33 Dark Antique, 41 Caribbean, 42 Cinnamon & 44 Mahogany

WHITACRE GREER

CLAY PAVERS



WHITACRE GREER
COMPANY

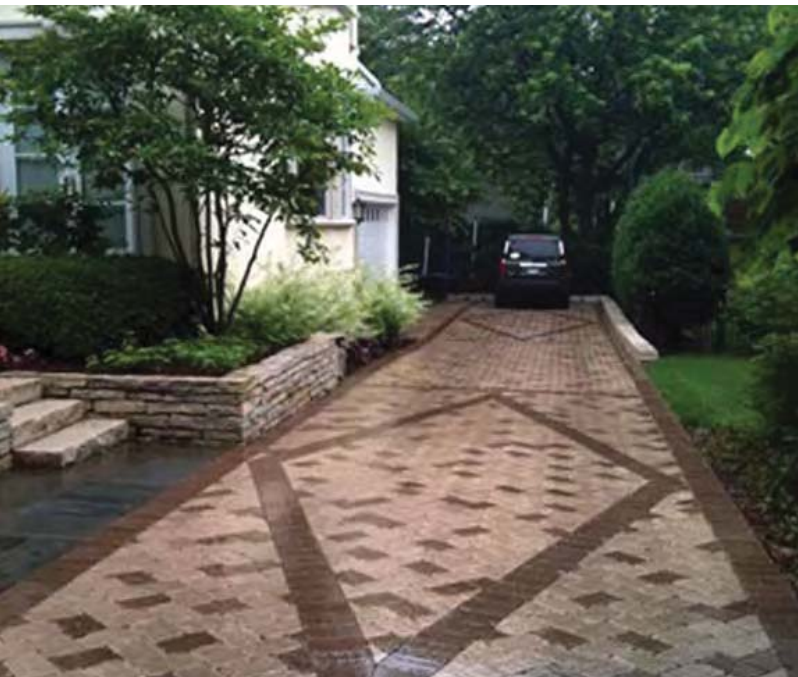


4 x 8 x 2 1/4 Bevel w/ Spacing Lugs
32 Antique, 33 Dark Antique, 34 Mulberry & 36 Red Sunset

PAVERS



4 x 8 x 2 1/4 North Shore Blend Cobble



6 x 9 x 2 1/4 Old World Cobble
52 Majestic & 54 Chocolate



2 1/4 x 9 x 3 Boardwalk w/ Spacing Lugs
32 Antique, 33 Dark Antique, 34 Mulberry & 36 Red Sunset



4 x 8 x 2 1/4 Bevel No Lug
53 Cimmerian & 54 Chocolate

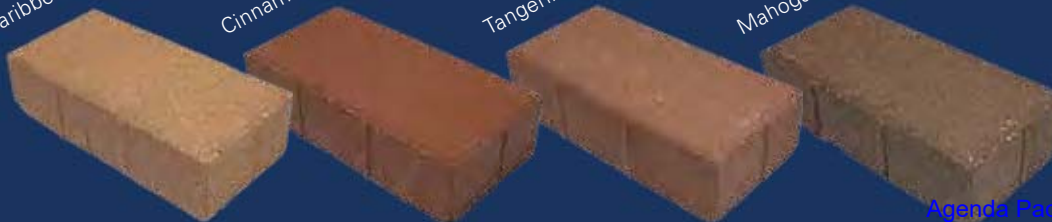
40 Series

Caribbean #41

Cinnamon #42

Tangerine #43

Mahogany #44



Product Information

Planter TF 4341

Winnetka Streetscape
Planter Pot



Size:	42" x 36" x 20"
Weight:	670 Lbs
Material:	Reinforced concrete
Reinforcing:	1/4" Dia. steel rebar
Drain hole:	(1) 2" Dia. drain hole
Hardware:	(3) 5/8" Dia. lifting inserts

Note:

Lifting inserts are to ONLY be used
when planter is EMPTY

Accepts Reservoir System

Finish Options

Standard

- Exposed Aggregate
- Weatherstone



A WAUSAU TILE INC. BRAND

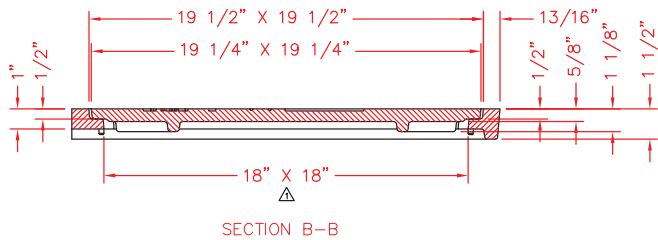
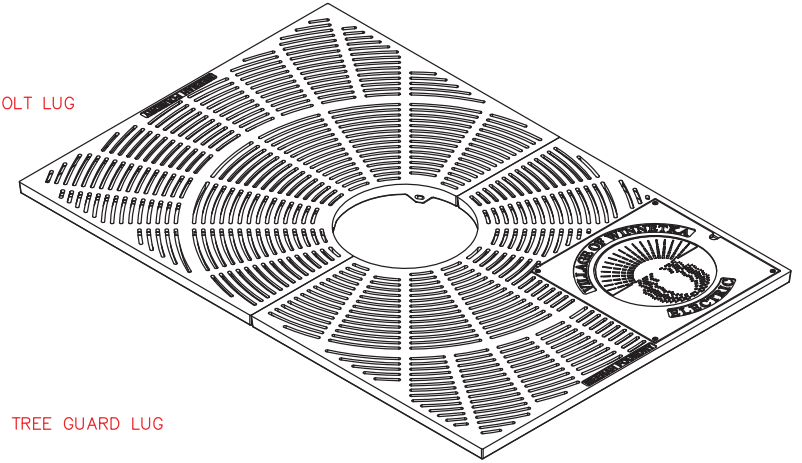
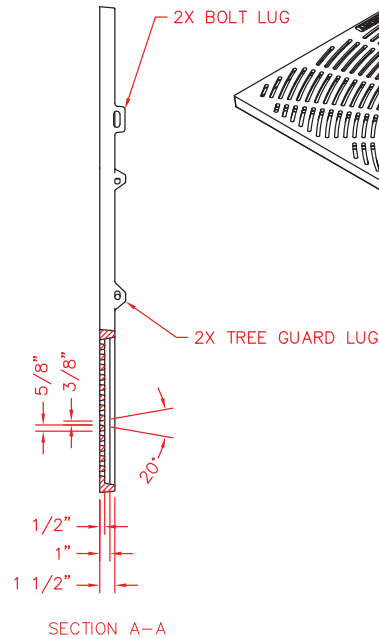
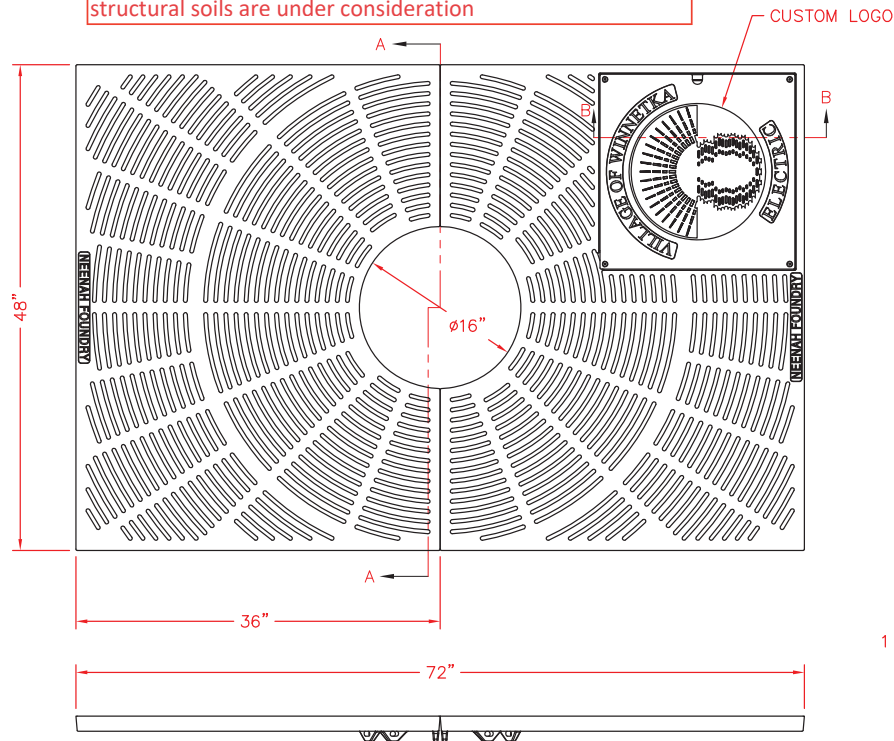
PO Box 1520, Wausau, WI 54402-1520
(800 388-8728)

Email: wtile@wausautile.com
Web: wausaumade.com

Winnetka Streetscape

Tree Grate

all tree pits to have new planting soil mix
structural soils are under consideration



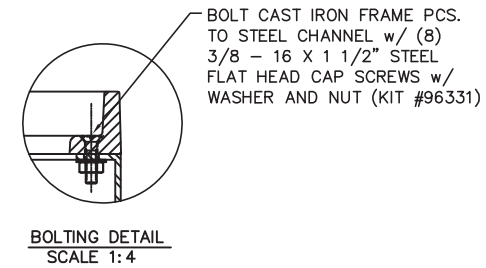
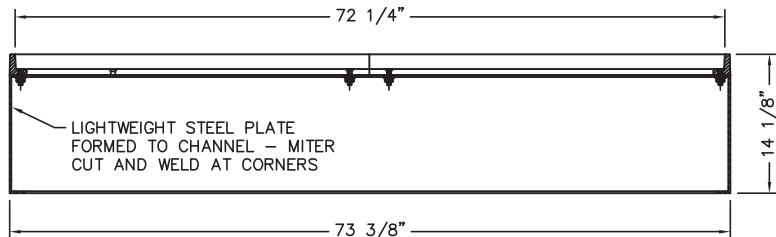
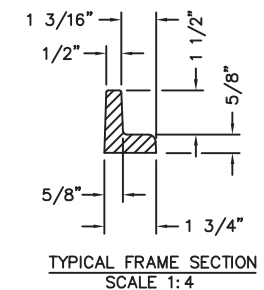
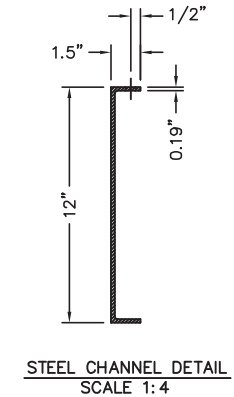
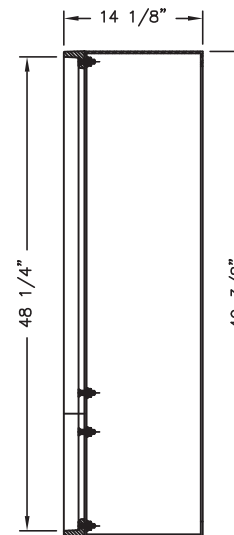
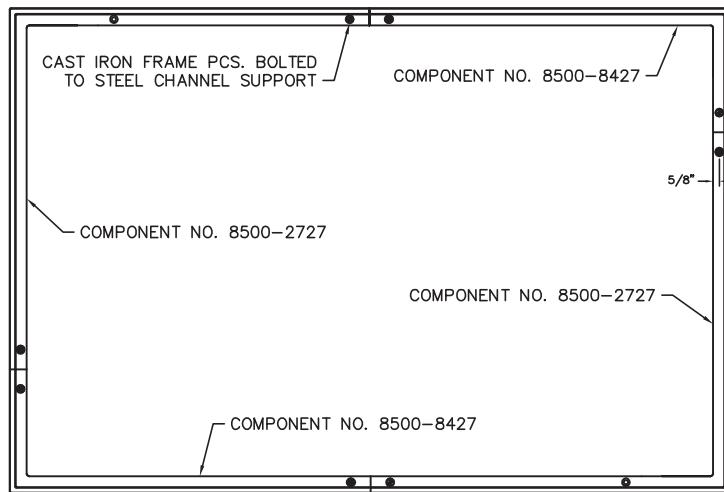
NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH
 COMPONENT NOS.: TREE GRATE 8811-0002, TREE GRATE w/ OPENING 8811-XXXX,
 LID w/ LOGO 8811-XXXX
 EQUIPMENT NOS.: TREE GRATE w/ OPENING - NEW PATTERN
 LID w/ LOGO - NEW PATTERN
 MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
 FINISH: NO PAINT
 WEIGHT: TREE GRATE 197#, TREE GRATE w/ OPENING 175#, LID w/ LOGO 58#

DR.	RKB	SCALE	TITLE:
CH.	JDB	1"=1'-0"	R-8811 TREE GRATE w/ ACCESS LID
APP.	SPT	NEENAH FOUNDRY  NEENAH WISCONSIN 54956 PHONE 800-558-5075 LINCOLN, NEBRASKA 68529 PHONE 800-234-7466	
DATE	06-27-2017		
www.nfco.com		NF-8811T38	B

CAD DWG. REF: 8811T38.DWG-

2

06-29-2017	WAS 16" X 16"	RKB	SPT	SPT
DATE	REVISION	DR	CH	APP



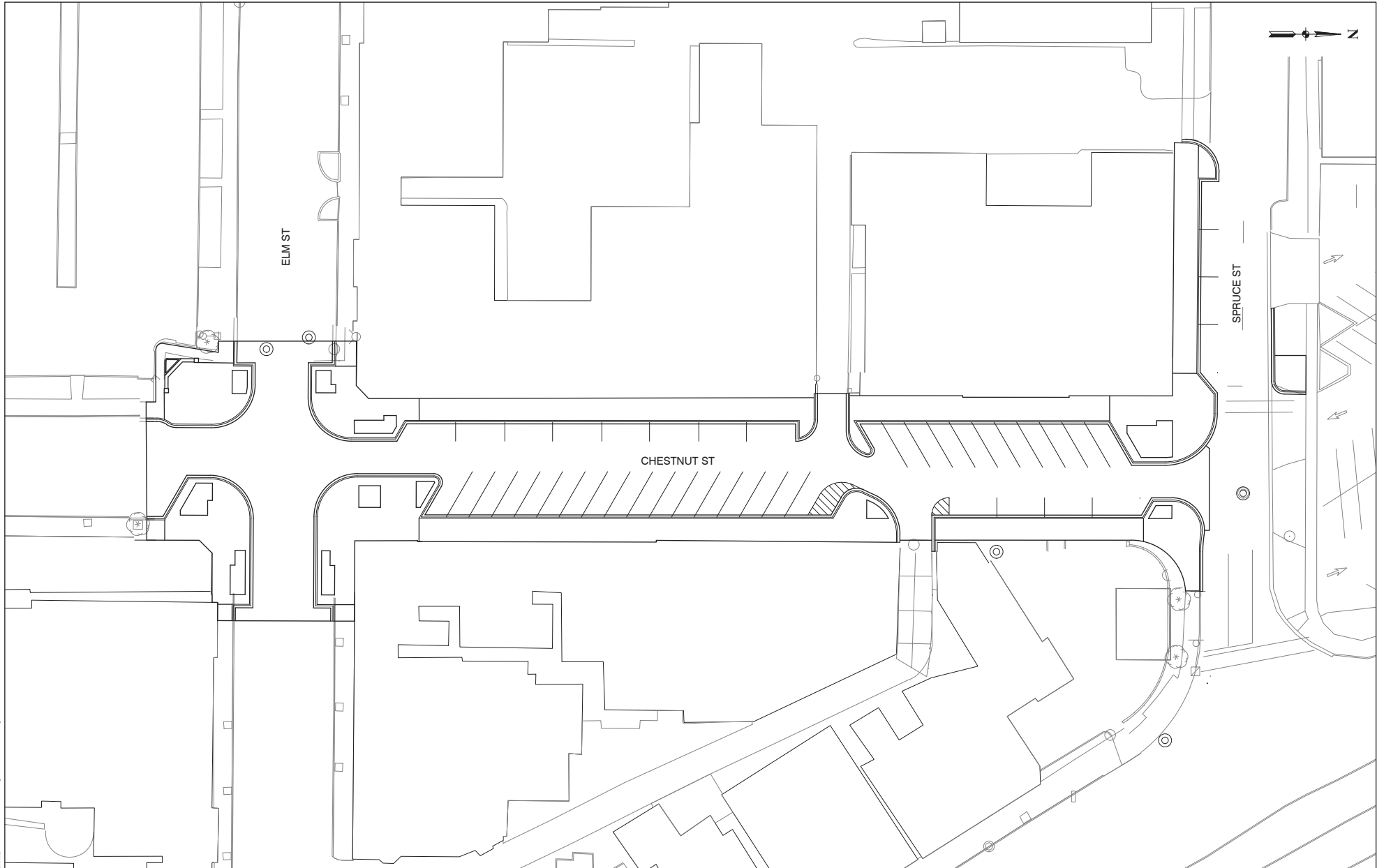
NOTE: NOT FOR USE AROUND EXISTING TREES
 COMPONENT NO'S.: FRAME PCS. - 2 PCS. 8500-2727, 2 PCS. 8500-8427, STEEL CHANNEL - 1 PC. 9992-8427
 MATERIAL: FRAME PCS. - CAST GRAY IRON ASTM A-48 CLASS 35B
 STEEL CHANNEL - MC 12 X 10.6 PER ASTM A-36
 FINISH: NO PAINT UNLESS SPECIFIED ON PURCHASE ORDER, THEN CAST IRON FRAME PCS. WILL BE PAINTED PER CUSTOMER SPECIFICATION

DR. CSM	SCALE 1"=1'-0"	TITLE: R-8500 FRAME FOR 4 FT. X 6 FT. TREE GRATE - FOR USE w/ PAVERS
CH.		
APP.	DIM CHK.	NEENAH FOUNDRY COMPANY NEENAH WISCONSIN 54956
DATE 06-13-2007		NF- 8500P46 B

01-13-2011	CHG'D FROM ROLLED CHANNEL TO FORMED	ELN
03-18-2008	ADDED HARDWARE KIT INFO	ELR
DATE	REVISION	INT

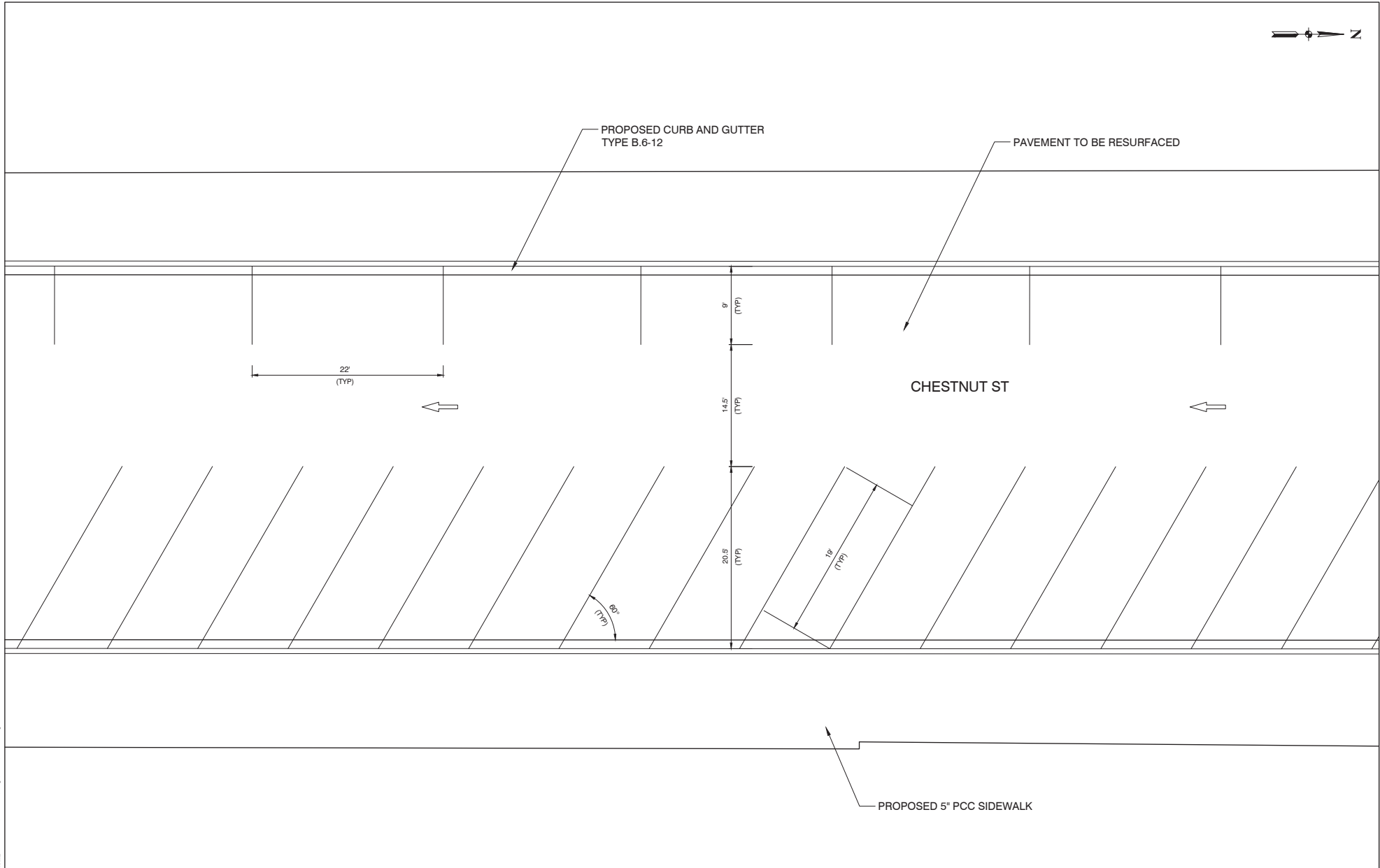
ATTACHMENT #3

STREETSCAPE GEOMETRICS AND LIGHTING PLAN (5 SHEETS)



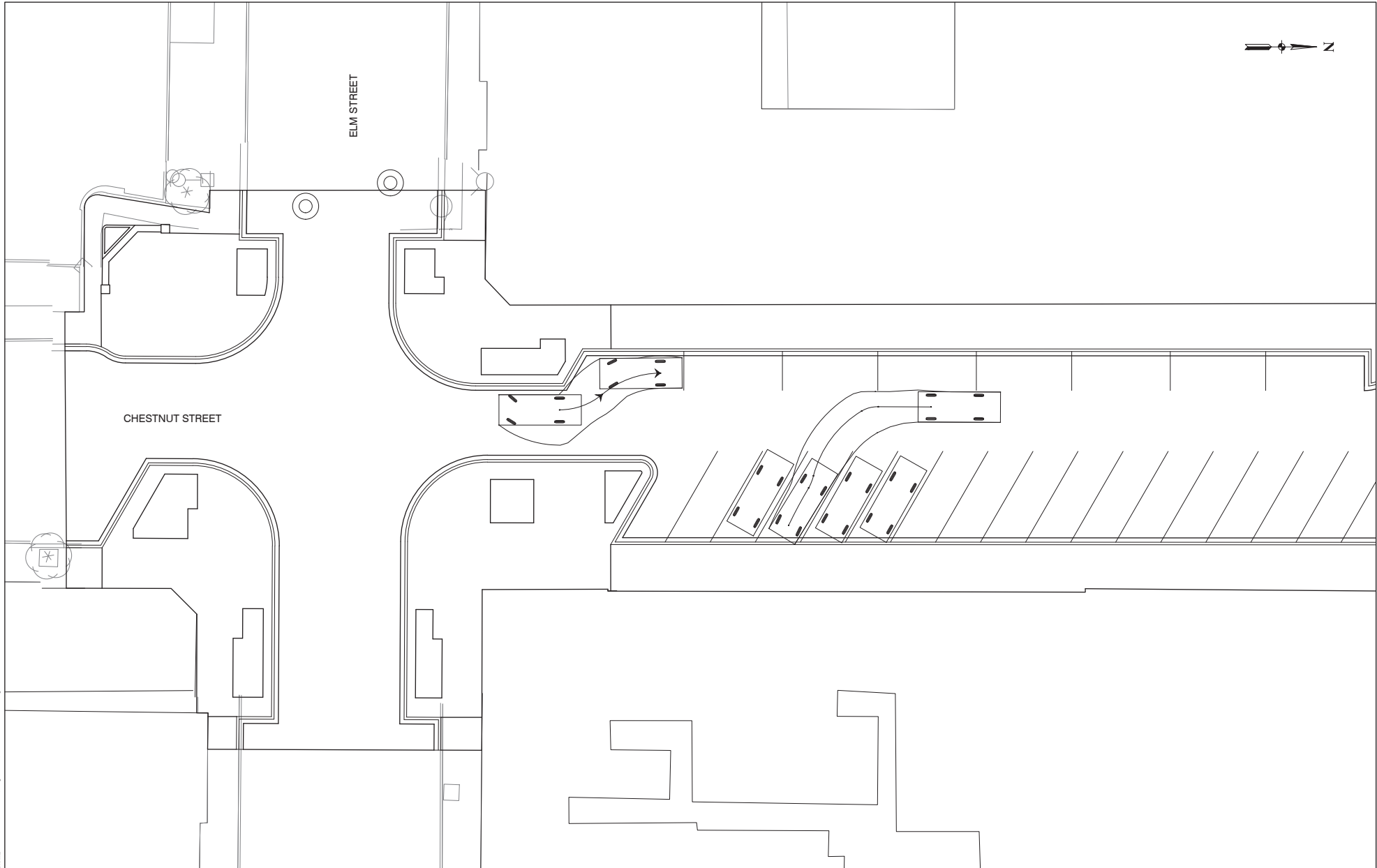
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ENGINEERING CONSULTANT  CIORBA GROUP Consulting Engineers 4121 Madison Road, Suite 200, Chicago, IL 60631 773.575.4000 www.ciorbainc.com				USER NAME = _____	DESIGNED -- MD	REVISED -- _____	VILLAGE OF WINNETKA	CHESTNUT STREET AND SPRUCE STREET STREETScape IMPROVEMENTS OVERALL ROADWAY IMPROVEMENTS	F.A. RTE. _____	SECTION _____	COUNTY _____	TOTAL SHEETS _____	SHEET NO. _____
	CHECKED -- DJO	REVISED -- _____											
PLOT SCALE = _____	DRAWN -- MD	REVISED -- _____											
PLOT DATE = _____	CHECKED -- _____	REVISED -- _____											
SCALE: _____				SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT _____							
CONTRACT NO. _____													



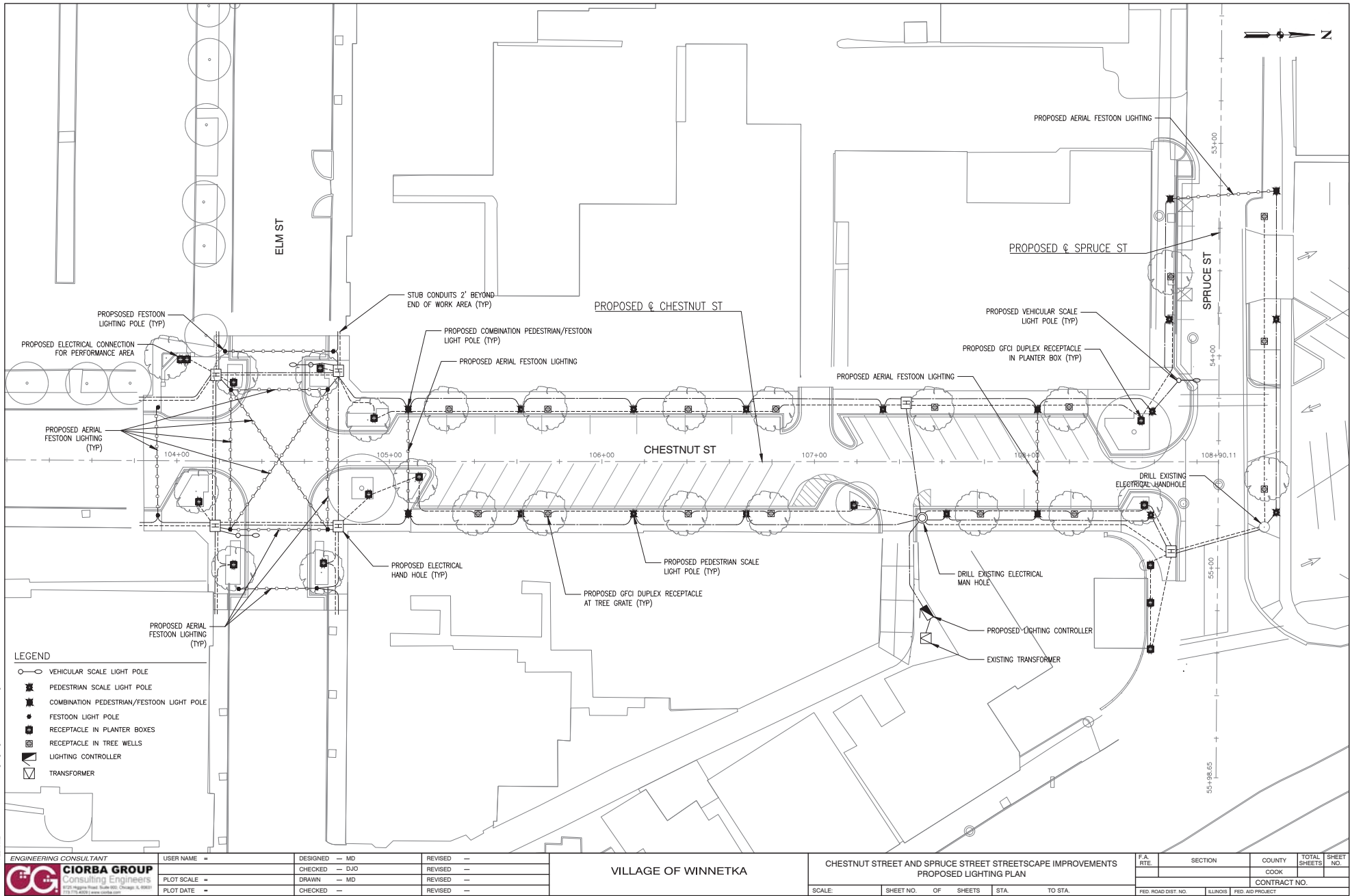
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ENGINEERING CONSULTANT				VILLAGE OF WINNETKA				CHESTNUT STREET AND SPRUCE STREET STREETScape IMPROVEMENTS TYPICAL PARKING DIMENSIONS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Ciorba Group Consulting Engineers 4121 Higgins Road, Suite 200, Chicago, IL 60630 773.775.4000 www.ciorbagr.com												COOK				
												CONTRACT NO.				
												FED. ROAD DIST. NO.				
												ILLINOIS				
												FED. AID PROJECT				



FILE NAME: N:\PROJECTS\2020\2020-03-01\Design\STREETSCAPE PARK MOVEMENTS.dwg

 CIORBA GROUP Consulting Engineers 4121 Madison Road, Suite 100, Chicago, IL 60630 773.575.4000 www.ciorba.com	ENGINEERING CONSULTANT			VILLAGE OF WINNETKA			CHESTNUT STREET AND SPRUCE STREET STREETSCAPE IMPROVEMENTS PARKING MOVEMENTS			F.A.	SECTION	COUNTY	TOTAL	SHEET
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	PLOT SCALE =	CHECKED -- DJO	REVISED --							CONTRACT NO.				
	PLOT DATE =	DRAWN -- MD	REVISED --							FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.								



ENGINEERING CONSULTANT  CIORBA GROUP Consulting Engineers 2121 Rogers Road, Suite 200, Chicago, IL 60626 773.775.4000 www.ciorba.com				USER NAME = _____				DESIGNED -- MD				REVISED -- _____				VILLAGE OF WINNETKA				CHESTNUT STREET AND SPRUCE STREET STREETScape IMPROVEMENTS PROPOSED LIGHTING PLAN												F.A. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
PLOT SCALE = _____				CHECKED -- DJO				REVISED -- _____				COOK		CONTRACT NO.																											
				DRAWN -- MD				REVISED -- _____																																	
				PLOT DATE = _____				CHECKED -- _____				REVISED -- _____																													
SCALE: _____				SHEET NO. _____				OF _____				SHEETS				STA. _____				TO STA. _____								FED. ROAD DIST. NO. _____				ILLINOIS _____		FED. AID PROJECT _____							