



APPROVED - LUMEC METROSCAPE



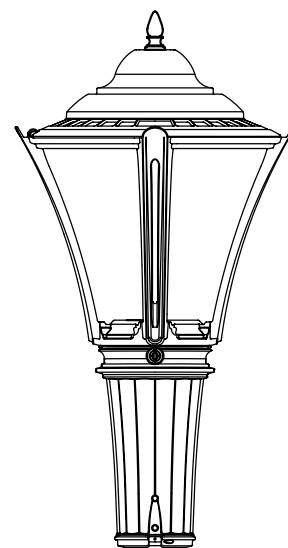
PROPOSED - STERNBERG MAIN STREET



CURRENT VILLANOVA STANDARD

# Classic elegance meets advanced lighting technology

## METROSCAPE LED POST-TOP URBAN LUMINAIRE



### PHILIPS LUMEC METROSCAPE LED POST-TOP URBAN LUMINAIRE

The Philips Lumec MetroScape LED post-top luminaire features flexible, robust energy-saving solutions for heritage-styled urban architectural lighting. Crowned with an ornamental hood, the post-top model comes with a flat lens to highlight the thinness of the LEDs. The luminaire provides attractive lighting at night, adding appeal to the surroundings and promoting safe use of the environment.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Catalog No: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Mfg: \_\_\_\_\_ Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### Ordering guide

example: MPTR-42W32LED4K-T-LE3-120-CDMGM25-PH8-BKTX

Luminaire	LED Module	Optical System	Voltage	Driver Options	Luminaire Options	Mounting	Pole	Accessories	Finish
<b>MPTR</b>									
<b>MPTR</b> <sup>1</sup> : MetroScape Post-Top LED Luminaire		<b>LE2</b> : Type II (ASYM) flat lens <b>LE3</b> : Type III (ASYM) flat lens <b>LE3W</b> <sup>3</sup> : Type III (ASYM) wide flat lens <b>LE4</b> : Type IV (ASYM) flat lens <b>LE5</b> : Type V (SYMM) flat lens	<b>120</b> : 120V <b>208</b> : 208V <b>240</b> : 240V <b>277</b> : 277V <b>347</b> : 347V <sup>4</sup> <b>480</b> : 480V <sup>4</sup>		<b>HS</b> : House Side Shield <b>OVR</b> : Dynadimmer override function <b>PH8</b> : Photoelectric cell <b>PH8XL</b> <sup>2</sup> : Photoelectric cell, extended life <b>PH9</b> : Shorting Cap <b>RCD</b> <sup>5</sup> : 5-Pin receptacle for dimming photoelectric cell <b>TN3</b> <sup>6</sup> : Fitter to fit over a 3" (76 mm) O.D. by 4" (102 mm) long tenon <b>TN3.5</b> <sup>6</sup> : Fitter to fit over a 3 1/2" (89 mm) O.D. by 4" (102 mm) long tenon		Consult the Philips web site for details and the complete line of Poles	<b>SPC</b> <sup>7</sup> : Starsense Photo-cell Control Node On-Off <b>SPCD</b> <sup>7</sup> : Starsense Photo-cell Control Node Dimming	<b>BE2TX</b> <b>BE6TX</b> <b>BE8TX</b> <b>BG2TX</b> <b>BKTX</b> <b>BRTX</b> <b>GN4TX</b> <b>GN6TX</b> <b>GN8TX</b> <b>GNTX</b> <b>GR</b> <b>GY3TX</b> <b>NP</b> <b>RD2TX</b> <b>RD4TX</b> <b>TG</b> <b>TS</b> <b>WHTX</b> (Consult pg 4 for code descriptions)
<b>16W16LED4K-T</b> <sup>2</sup> <b>24W16LED4K-T</b> <sup>2</sup> <b>30W16LED4K-T</b> <sup>2</sup> <b>48W16LED4K-T</b> <sup>2</sup> <b>35W32LED4K-T</b> <sup>2</sup> <b>55W32LED4K-T</b> <sup>2</sup> <b>72W32LED4K-T</b> <b>97W32LED4K-T</b> <sup>2</sup> <b>55W48LED4K-T</b> <b>80W48LED4K-T</b> <b>108W48LED4K-T</b> <b>140W48LED4K-T</b> <sup>2</sup> <b>70W64LED4K-T</b> <b>110W64LED4K-T</b> <b>90W80LED4K-T</b> <b>135W80LED4K-T</b>									
				<b>CDMG</b> : Dynadimmer for standard dimming (Consult pg 3 for complete Dynadimmer scenarios) <b>CLO</b> : Pre-set driver to manage lumen depreciation <b>AST</b> : Pre-set driver for progressive start-up <b>OTL</b> : Pre-set driver to signal end of life of the lamp <b>DALI</b> : Pre-set driver compatible with the DALI control system					

1. Luminaire is always shipped with a dimmable 0-10V driver (except for 35W32LED4K).  
2. 347V and 480V not available.  
3. Not available with HS option.  
4. Not available with driver options.  
5. Use of photoelectric cell or shorting cap is required to ensure proper illumination.

6. Not available with Motion Response.  
7. Luminaire option RCD is required with this accessory.  
8. CDMG, CDMGP and DALI are not available with SPC and SPCD.





#### Ordering Guide (Accessories) - Motion Response\*

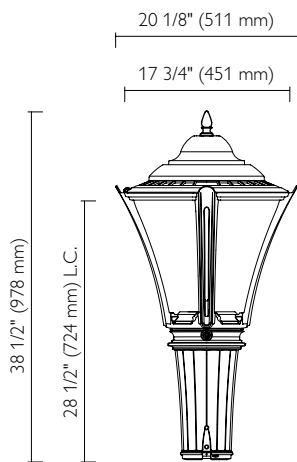
Must be ordered as a separate line item

example: ACC-120-MR4PGI-BKTX

Accessory	Voltage	Motion Response Module*	Finish
ACC			
	120: 120V 277: 277V	MR4PG1: Single Grey MR4PG2: Double Grey MR4PW1: Single White MR4PW2: Double White	(Consult pg 4 for Color codes and descriptions)

\*OVR option is required for Motion Response Accessory

#### Dimensions - MetroScape Post-Top LED (MPTR) Luminaire



**EPA:**  
1.97 sq ft

**Luminaire Weight:**  
31.1 lbs (14.1 kg)

#### Specifications (continued)

##### Finial:

Decorative cast 356 aluminum, mechanically assembled.

##### Hood:

Made of die cast A360.1 Aluminum alloy 0.100 (2.5mm) minimum thickness, mechanically assembled to the cast aluminum heat sink.

##### Access-Mechanism:

A die cast A360.1 Aluminum alloy 0.100 (2.5mm) minimum thickness technical ring with latch and hinge.

##### Light Engine:

LEDgine is composed of 4 main components:  
LED lamp / Optical System / Heat Sink / Driver  
Electrical components are RoHS compliant.

##### LEx Lens

**Flat Lens:** Made of soda lime clear tempered glass, mechanically assembled and sealed onto the ring of the access mechanism.

##### LED Module

LED type Philips Lumileds LUXEON T. Composed of high performance white LEDs. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan 100,000 hours (see chart for specific lifetime based on mA) based on TM 21 extrapolation to get results after which 50% of LEDs still emits over 70% (L70) of its original lumen output. Use of metal core board ensures greater heat transfer and longer lifespan of the light engine.

##### Optical System:

Composed of high performance optical polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM 63, LM 79 and TM 15 (IESNA) certifying its photometric performance. Street side indicated. Dark Sky compliant with 0% uplight and U0 per IESNA TM 15.

##### Heat Sink:

Made of cast aluminum optimizing the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

##### Driver:

High power factor of 95%. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 and 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. Maximum ambient operating temperature from 40F (40C) to 130F (55C) degrees. Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees. Dimmable driver 0-10V.

The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

##### Surge Protector:

Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

#### Specifications

##### Cage:

In a round shape with 4 arms and a built-in mechanical ring, this cage is a one piece die cast A360 Aluminum alloy 0.100 (2.5mm) minimum thickness, mechanically assembled to the fitter.

##### Fitter:

Made of die cast A360.1 Aluminum alloy 0.100 (2.5mm) minimum thickness, the fitter is complete with a watertight access door giving access to the driver rated IP66, and a terminal block that accepts (#2 max.) wires from the primary circuit. Comes with an easy self adjusting system with two (2) set screws 3/8 16 UNC for ease of maintenance and installation. Fits on a 4" (102mm) outside diameter by 4" (102mm) long tenon.

# PHILIPS LUMEC METROSCAPE

## IES ROAD REPORT

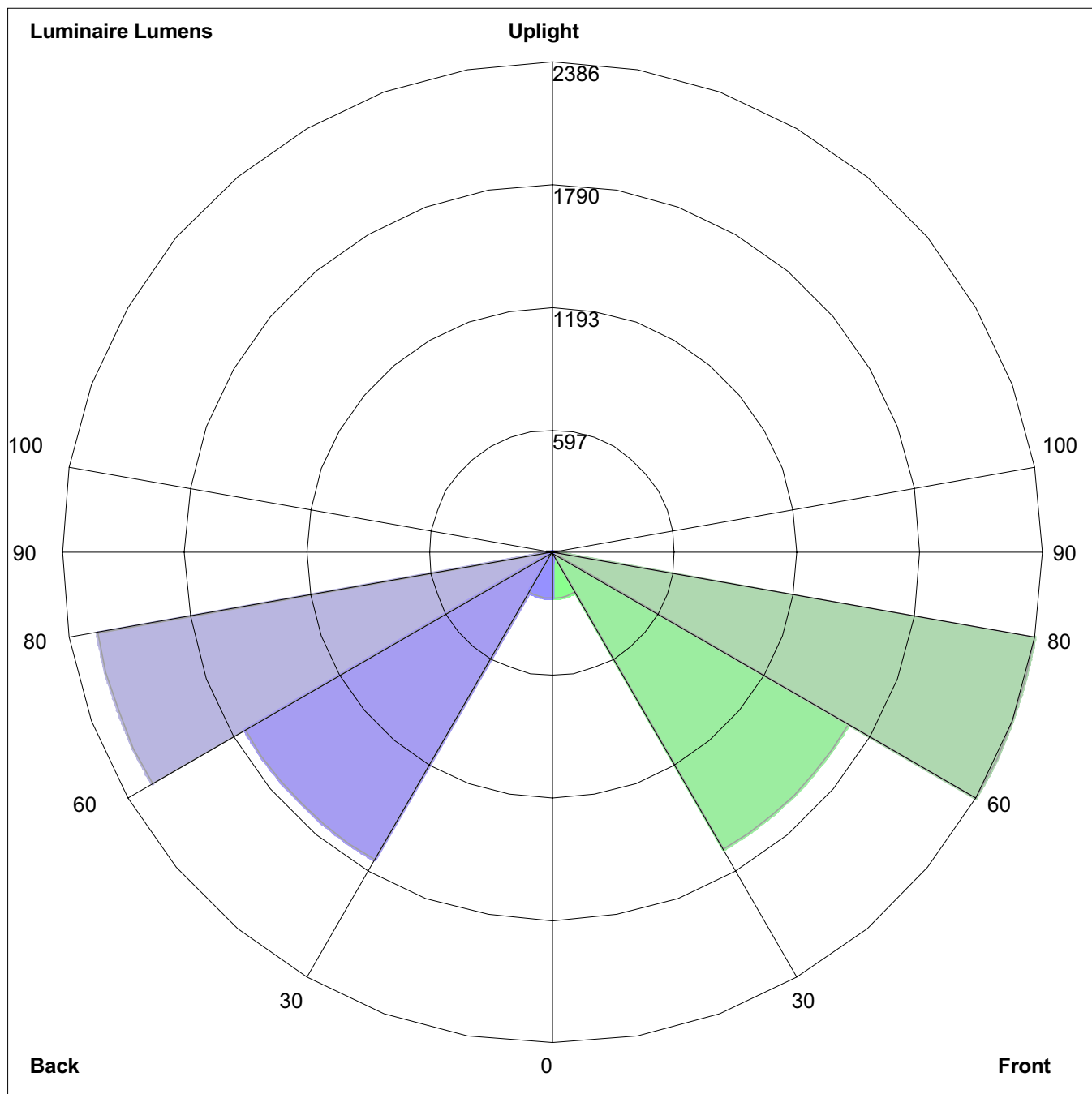
PHOTOMETRIC FILENAME : MPTR-90W80LED4K-T-LE5 (S-AGI32.IES)

### LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	221.6	N.A.	2.6
FM - Front-Medium (30-60)	1667.9	N.A.	19.5
FH - Front-High (60-80)	2386.3	N.A.	28.0
FVH - Front-Very High (80-90)	33.0	N.A.	0.4
BL - Back-Low (0-30)	221.1	N.A.	2.6
BM - Back-Medium (30-60)	1727.6	N.A.	20.2
BH - Back-High (60-80)	2248.9	N.A.	26.4
BVH - Back-Very High (80-90)	25.4	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	8531.8	N.A.	100.0
BUG Rating	B3-U0-G2		



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:

Front: Low=221.6, Medium=1667.9, High=2386.3, Very High=33.0

Back: Low=221.1, Medium=1727.6, High=2248.9, Very High=25.4

Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2

## MS805A / MS805B LED MAIN STREET

## SPECIFICATIONS

### LUMINAIRE DESIGN

- The luminaire shall be a modern replica of a popularly styled octagonal fixture, available with (A) or without (B) decorative spikes.
- The MS805A LED luminaire shall be 17 ½" (19" on the diagonal) and 38" tall (with 3" tenon). The MS805B LED luminaire shall be 16" (17" on the diagonal) and 38" tall (with 3" tenon).
- The luminaire shall be appointed with a cast aluminum 6 ½" decorative spiked finial.
- The luminaire shall have LED light sources with roof mounted, downlighting optics.
- The luminaire shall be supplied with line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines.
- The luminaire shall be U.L. or E.T.L. listed in the U.S. and Canada.

### POST FITTER

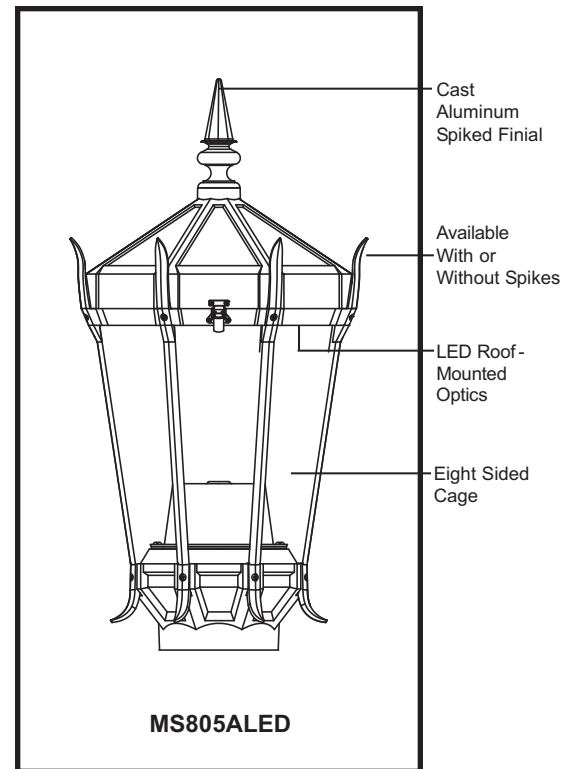
- The fitter shall be heavy wall cast aluminum for high tensile strength.
- The fitter shall have an inside diameter opening to attach to a 3", 4", 5", 6" or 7" pole or tenon.
- When ordered with a Sternberg pole, the fitter shall be attached by set-screw to the pole top or tenon.

### DRIVER

- The LED driver shall be securely mounted inside the fitter, for optimized performance and longevity.
- The LED driver shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and fixture installation.

### LIGHT SOURCES

- The luminaire shall use high output, high brightness LEDs.
- The LEDs shall be mounted in arrays, on printed circuit boards designed to maximize heat transfer to the heat sink surface.
- The LED arrays shall be roof mounted to minimize up-light.
- The LEDs shall be attached to the printed circuit board with not less than 90% pure silver to insure optimal electrical and thermal conductivity.
- The LEDs and printed circuit boards shall be protected from moisture and corrosion by a conformal coating of 1 to 3 mils.
- The LEDs and printed circuit board construction shall be environmentally friendly and 100% recyclable. They shall not contain lead, mercury or any other hazardous substances and shall be RoHS compliant.
- The LED life rating data shall be determined in accordance with IESNA LM-80.



EPA = 2.46 (ft<sup>2</sup>)  
WEIGHT = 55 LBS

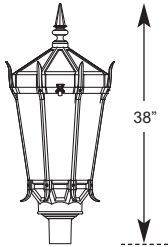


LIST NO.  
MS805A LED/  
MS805B LED  
MAIN STREET  
SERIES

# MS805A / MS805B LED MAIN ST. ACORNS / FITTERS / ARMS PM - WB

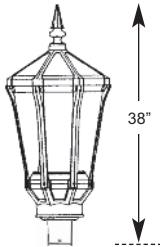
## FIXTURES

17 1/2" W



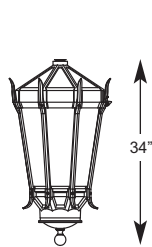
**MS805ALED**  
With Spikes

16" W



**MS805BLED**  
Without Spikes

17 1/2" W



**MS805ALED**  
Hanging Version

### HS Hangstraights

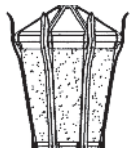


**HS-HB\***  
Horizontal  
8 1/4" W x  
10 5/8" H

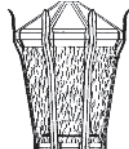


**HS-V\***  
Vertical  
4" W x  
4 7/8" H

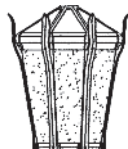
## LENSES



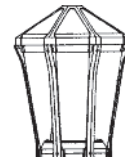
**CSA**  
Clear  
Seeded  
Acrylic  
(Standard)



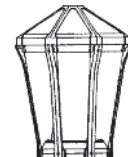
**CTA**  
Clear  
Textured  
Acrylic



**SV1**  
Flat  
Diffused  
Lens



**SV2**  
Flat  
Frosted  
Acrylic

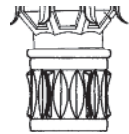


**CA**  
Clear  
Acrylic

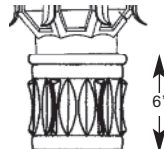
## FITTERS



**/3**  
Fits 3" poles  
or tenons  
and arms below



**BD/4**  
Fits 4" poles  
or tenons



**BD/5**  
Fits 5" poles  
or tenons



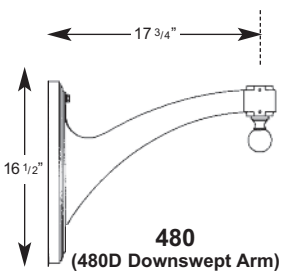
**/6**  
Fits 6" poles  
or tenons



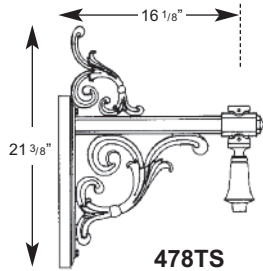
**/7**  
Fits 7" poles  
or tenons

## ARMS - POST MOUNT (PM) or WALL BRACKETS (WB)

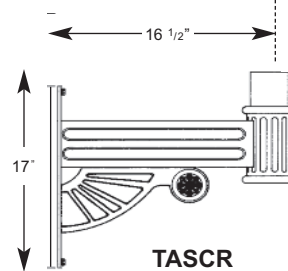
See Arms Section for more information



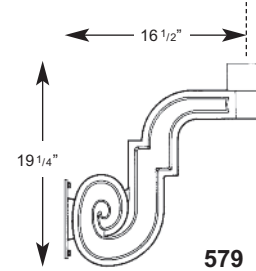
**480**  
(480D Downswept Arm)



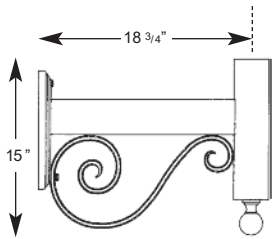
**478TS**



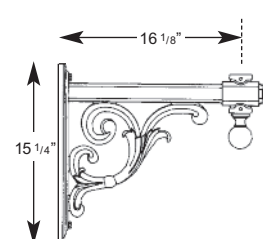
**TASC**



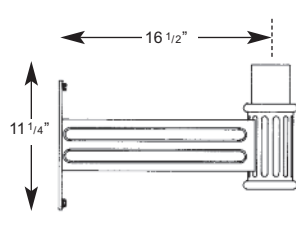
**579**



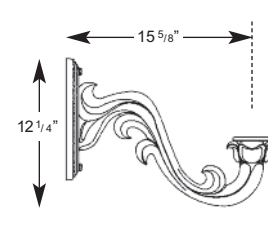
**6236**



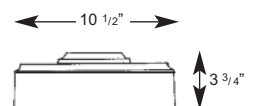
**478**



**TA**



**55L**



**PIER BASE MOUNT**

**450PB**



# STERNBERG MAIN STREET

## IES ROAD REPORT

PHOTOMETRIC FILENAME : EP01-TYPE V-AGI32.IES

### LUMINAIRE CLASSIFICATION SYSTEM (LCS)

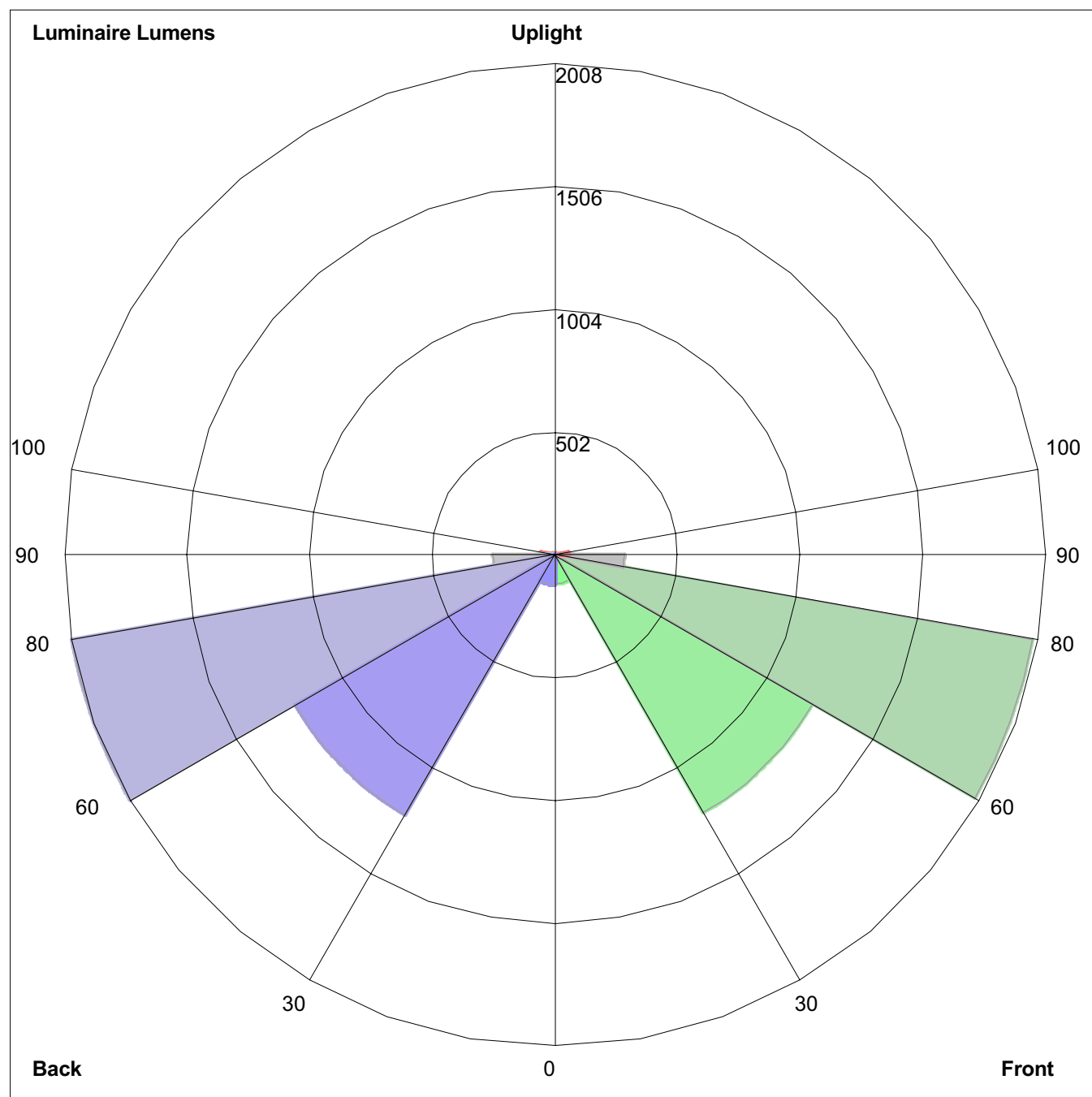
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	118.1	N.A.	1.6
FM - Front-Medium (30-60)	1217.4	N.A.	16.7
FH - Front-High (60-80)	1983.9	N.A.	27.3
FVH - Front-Very High (80-90)	283.2	N.A.	3.9
BL - Back-Low (0-30)	121.5	N.A.	1.7
BM - Back-Medium (30-60)	1226.0	N.A.	16.8
BH - Back-High (60-80)	2007.5	N.A.	27.6
BVH - Back-Very High (80-90)	252.6	N.A.	3.5
UL - Uplight-Low (90-100)	58.0	N.A.	0.8
UH - Uplight-High (100-180)	8.8	N.A.	0.1
Total	7277.0	N.A.	100.0
BUG Rating	B3-U3-G3		

# STERNBERG MAIN STREET

## IES ROAD REPORT

PHOTOMETRIC FILENAME : EP01-TYPE V-AGI32.IES

### LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:

Front: Low=118.1, Medium=1217.4, High=1983.9, Very High=283.2

Back: Low=121.5, Medium= 1226.0, High=2007.5, Very High=252.6

Uplight: Low=58.0, High=8.8

BUG Rating : B3-U3-G3





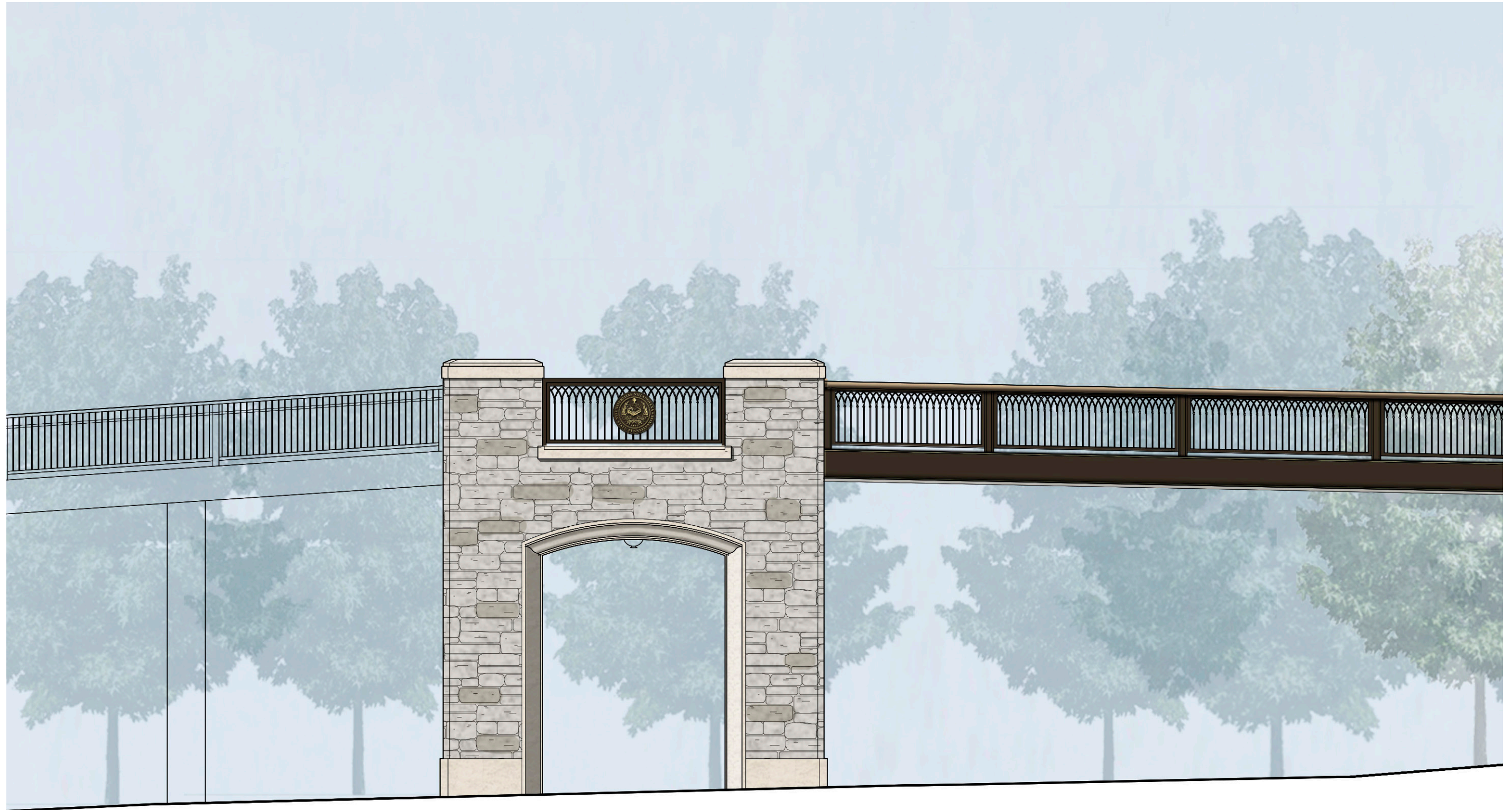
## VILLANOVA UNIVERSITY PEDESTRIAN BRIDGE

ART ITEMS & DETAILS

FEBRUARY 11, 2016

ROBERT A.M. STERN ARCHITECTS  
VOITH & MACTAVISH ARCHITECTS





SCALE: 1/8" = 1'  
0 4' 8' 16'

VILLANOVA UNIVERSITY PEDESTRIAN BRIDGE  
VILLANOVA, PENNSYLVANIA

BRONZE SEAL AT GUARDRAIL  
VILLANOVA STATION PAVILION  
FEBRUARY 11, 2016

VILLANOVA UNIVERSITY  
ROBERT A.M. STERN ARCHITECTS  
VOITH & MACTAVISH ARCHITECTS





SCALE: 1/8" = 1'  
0 4' 8' 16'

VILLANOVA UNIVERSITY PEDESTRIAN BRIDGE  
VILLANOVA, PENNSYLVANIA

CURRENT CD ELEVATION  
TRADITIONAL GLASS ENCLOSURE  
FEBRUARY 11, 2016

VILLANOVA UNIVERSITY  
ROBERT A.M. STERN ARCHITECTS  
VOITH & MACTAVISH ARCHITECTS



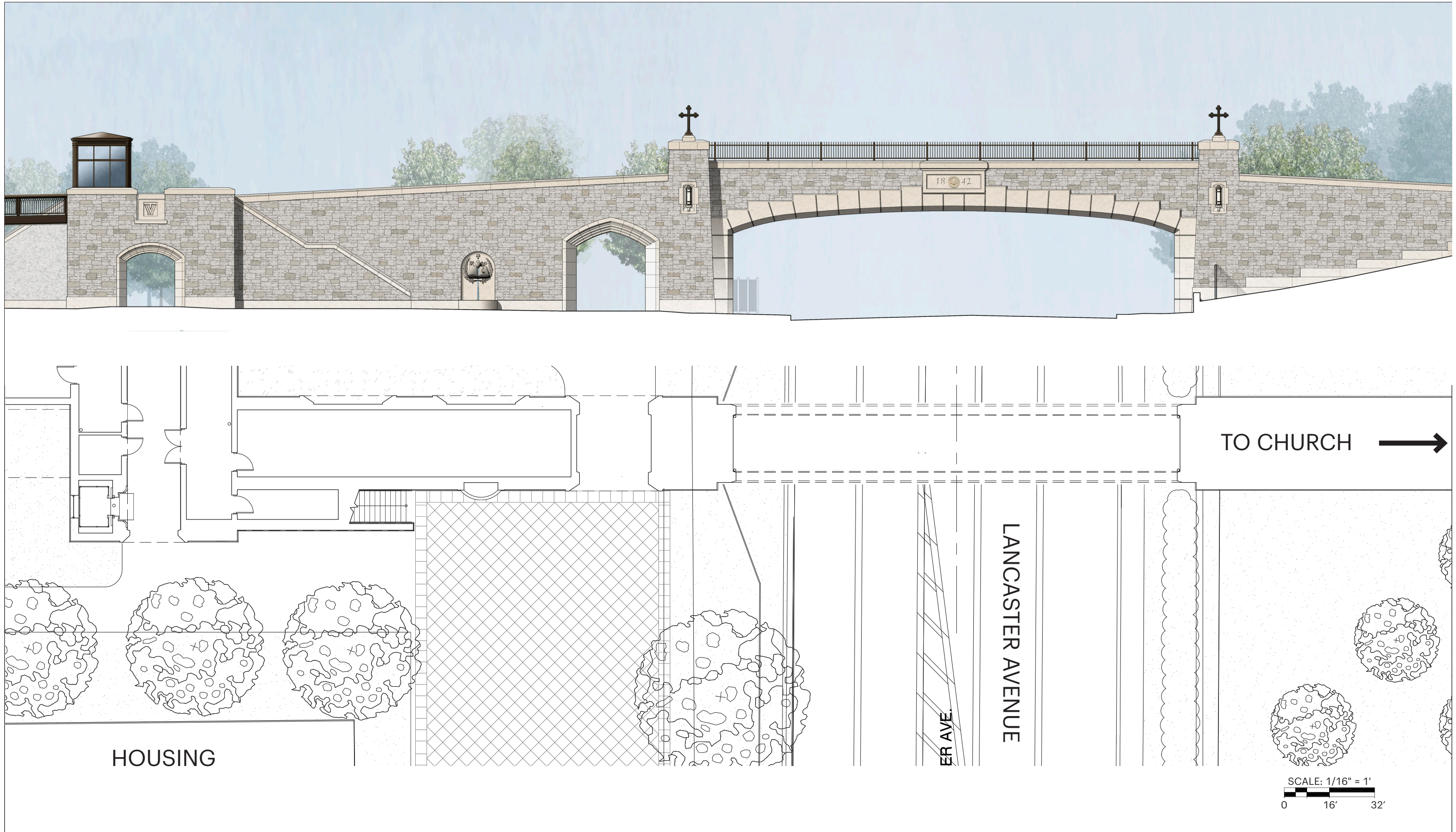


VILLANOVA UNIVERSITY PEDESTRIAN BRIDGE  
VILLANOVA, PENNSYLVANIA

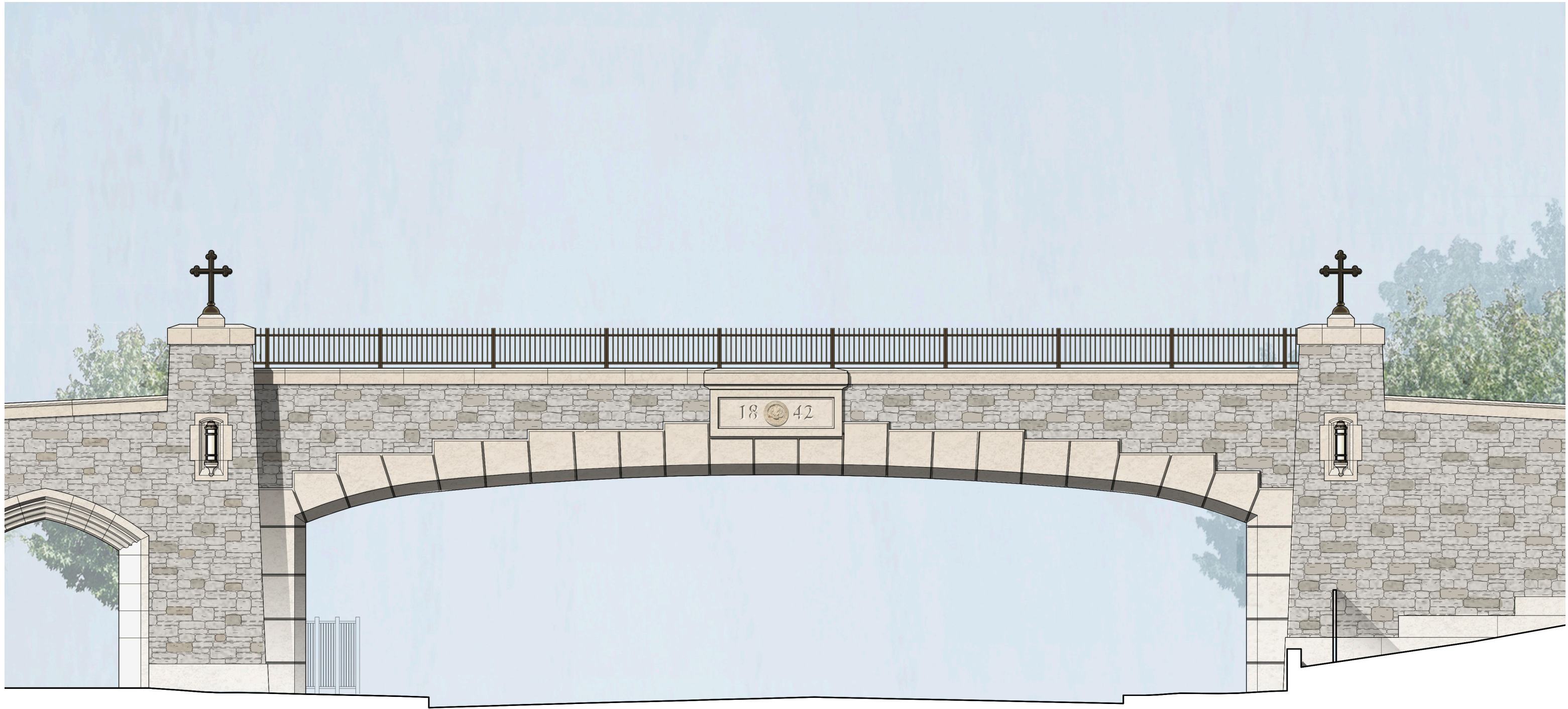
ENLARGED VIEW  
GLASS ELEVATOR ENCLOSURE PRECEDENT  
FEBRUARY 11, 2016

VILLANOVA UNIVERSITY  
ROBERT A.M. STERN ARCHITECTS  
VOITH & MACTAVISH ARCHITECTS









SCALE: 1/8" = 1'  
0 4' 8' 16'

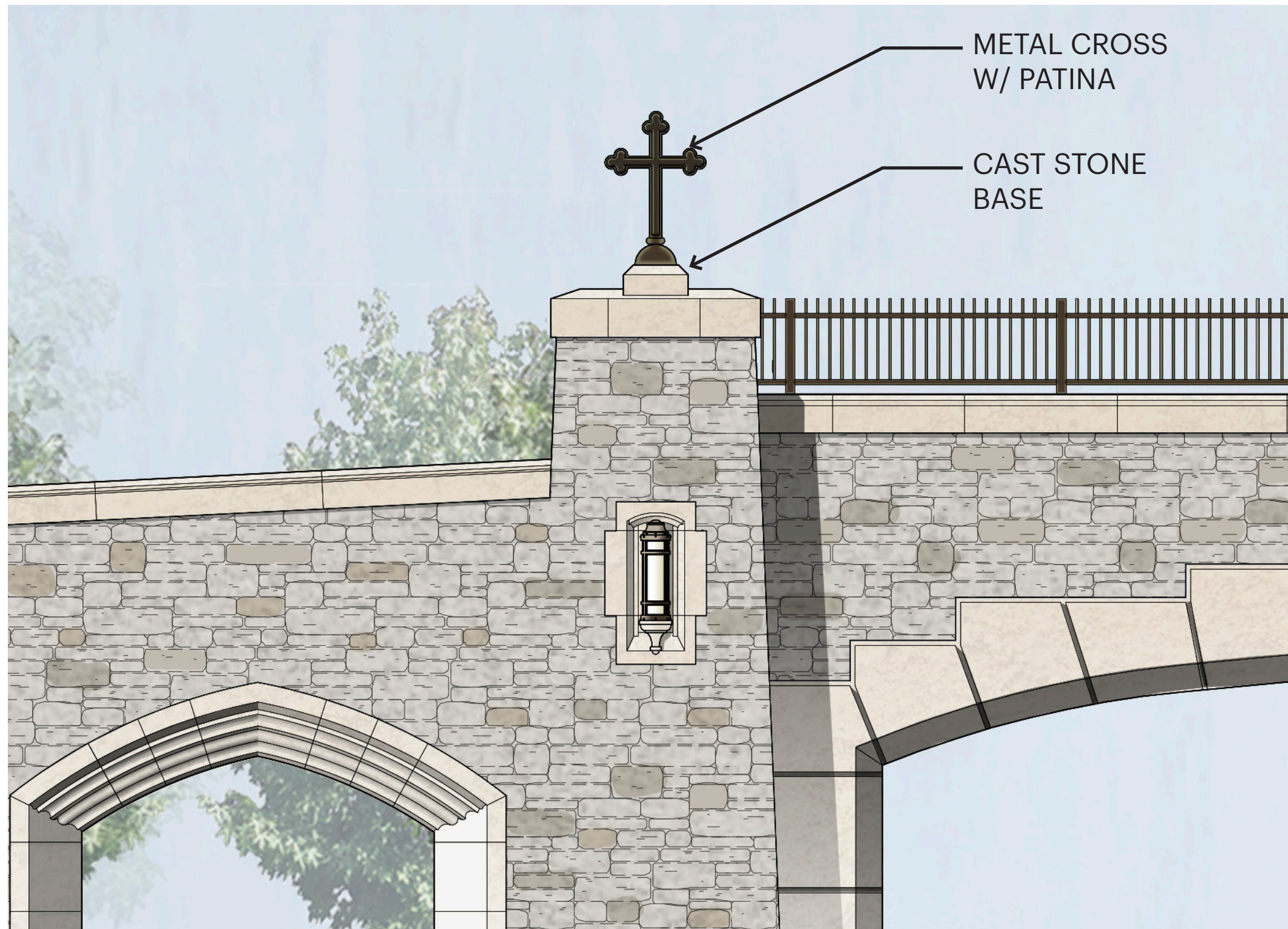
## BRIDGE MAIN SPAN EAST ELEVATION CROSSES

FEBRUARY 11, 2016

VILLANOVA UNIVERSITY PEDESTRIAN BRIDGE  
VILLANOVA, PENNSYLVANIA

VILLANOVA UNIVERSITY  
ROBERT A.M. STERN ARCHITECTS  
VOITH & MACTAVISH ARCHITECTS





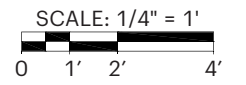
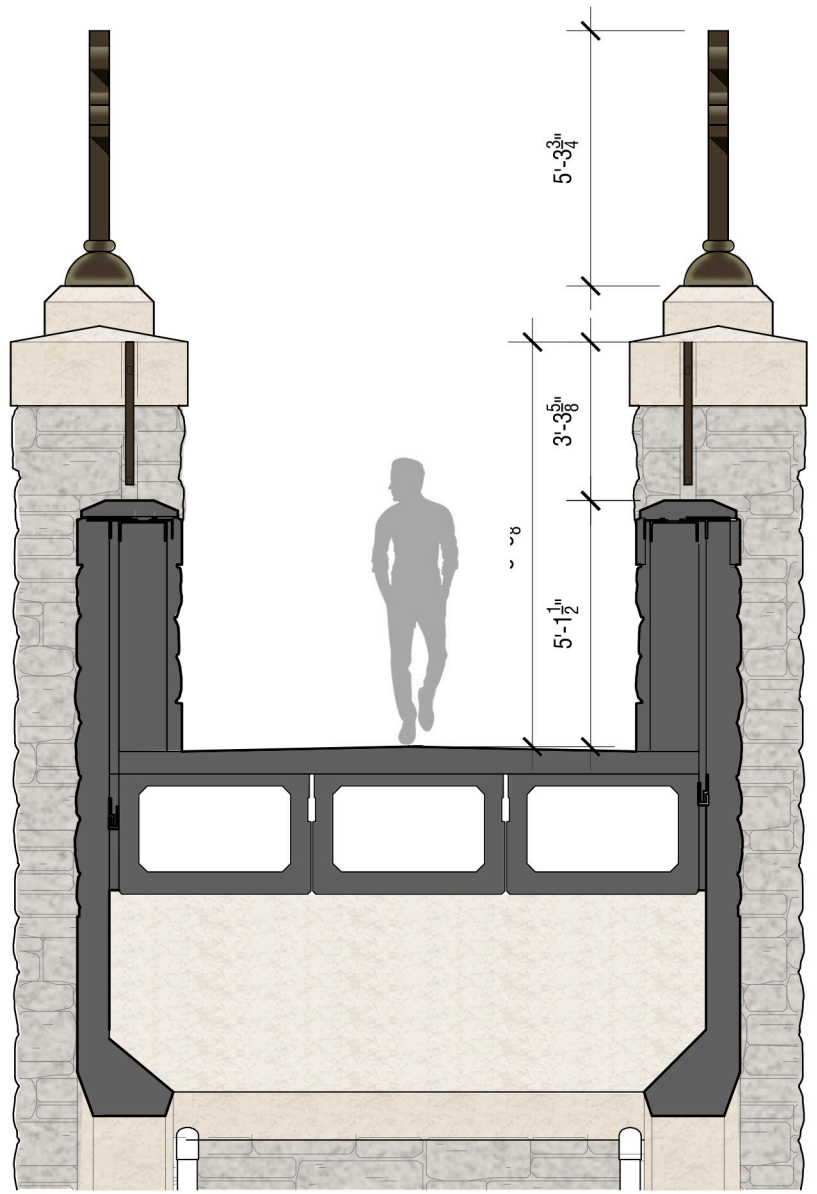
# ENLARGED VIEW CROSSES

FEBRUARY 11, 2016

VILLANOVA UNIVERISTY PEDESTRIAN BRIDGE  
VILLANOVA, PENNSYLVANIA

VILLANOVA UNIVERSITY  
ROBERT A.M. STERN ARCHITECTS  
VOITH & MACTAVISH ARCHITECTS





SECTIONAL VIEW  
CROSSES  
FEBRUARY 11, 2016

VILLANOVA UNIVERISTY PEDESTRIAN BRIDGE  
VILLANOVA, PENNSYLVANIA

VILLANOVA UNIVERSITY  
ROBERT A.M. STERN ARCHITECTS  
VOITH & MACTAVISH ARCHITECTS



Fixture Type EC02

Fixture Type EL04

Fixture Types EP01, EP02, EP04, EP05, EP06, EP17 (NOTE: FOR TYPICAL LIGHTING POLE HEIGHTS, REFER TO POLE HEIGHT DIAGRAM IN LIGHTING DESIGN BOOK.)

LIGHTING POLE HEIGHTS, REFER TO POLE HEIGHT DIAGRAM IN LIGHTING DESIGN BOOK. )

DESIGN BOOK.)

Fixture Type ER1

Fixture Type ES04

Fixture Type ZP1

(\*) OAH = OVERALL HEIGHT

VMA  
RAMSA

DESIGN ARCHITECT  
Robert A.M. Stern Architects LLP  
460 West 34th Street  
New York, New York 10001  
*phone:* 212-967-5100  
*fax:* 212-967-5588  
[www.ramsa.com](http://www.ramsa.com)

**STRUCTURAL ENGINEER - PARKING  
PLANNING AND DESIGN**  
The Harman Group, Inc.  
900 West Valley Forge Road, Suite 200  
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FINAL LAND DEVELOPMENT  
PLANS

Revision	August 10, 2015
Date	March 13, 2015
Title	Site Lighting Design

Scale NIS  
Drawn By JO/JL

C7.3

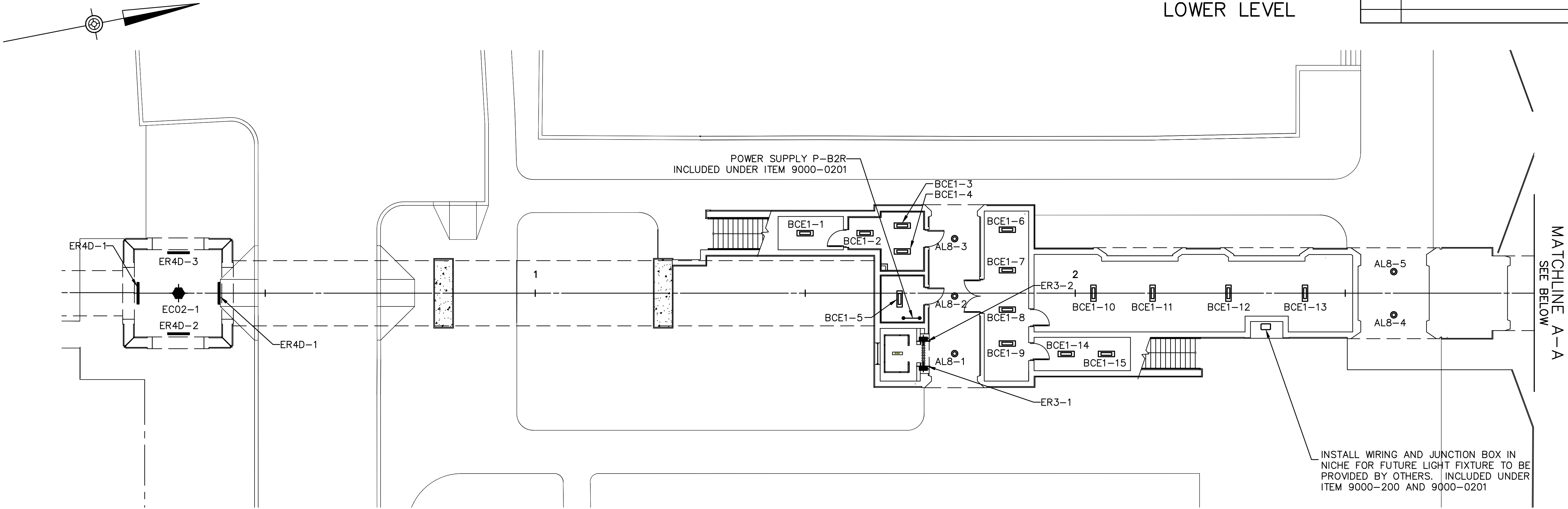
Contractor to verify all dimensions in field.  
Architect of any discrepancies before start.





CONCEPTUAL PEDESTRIAN  
BRIDGE LIGHTING PLAN  
LOWER LEVEL

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
6-0	DELAWARE	0030	—	2 OF 2	
RADNOR TOWNSHIP					
REVISION NUMBER	REVISIONS			DATE	BY



- NOTE:**
- THIS PLAN IS FOR THE CONSTRUCTION OF LIGHTING FIXTURES ONLY. REFER TO DRAWINGS FOR CONSTRUCTION FOR FOR ALL OTHER WORK.
  - DESIGN OF ALL CIRCUITRY FOR PEDESTRIAN BRIDGE LIGHTING TO BE COMPLETED UNDER ITEM 9000-0200: DESIGN OF PEDESTRIAN BRIDGE STRUCTURE LIGHT FIXTURE POWER SUPPLY.
  - CONSTRUCTION OF ALL CIRCUITRY FOR PEDESTRIAN BRIDGE LIGHTING TO BE COMPLETED UNDER ITEM 9000-0201: CONSTRUCTION OF PEDESTRIAN BRIDGE STRUCTURE LIGHT FIXTURE POWER SUPPLY.
  - LIGHTING LOCATIONS SHOWN ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATOR PAVILION ELECTRICAL PLAN FOR INSTALLATION DETAILS AND ADDITIONAL INFORMATION.

**LEGEND**

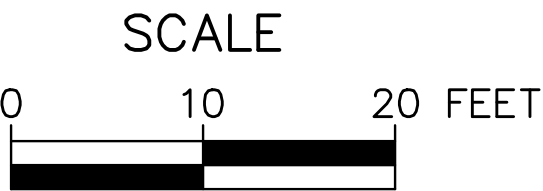
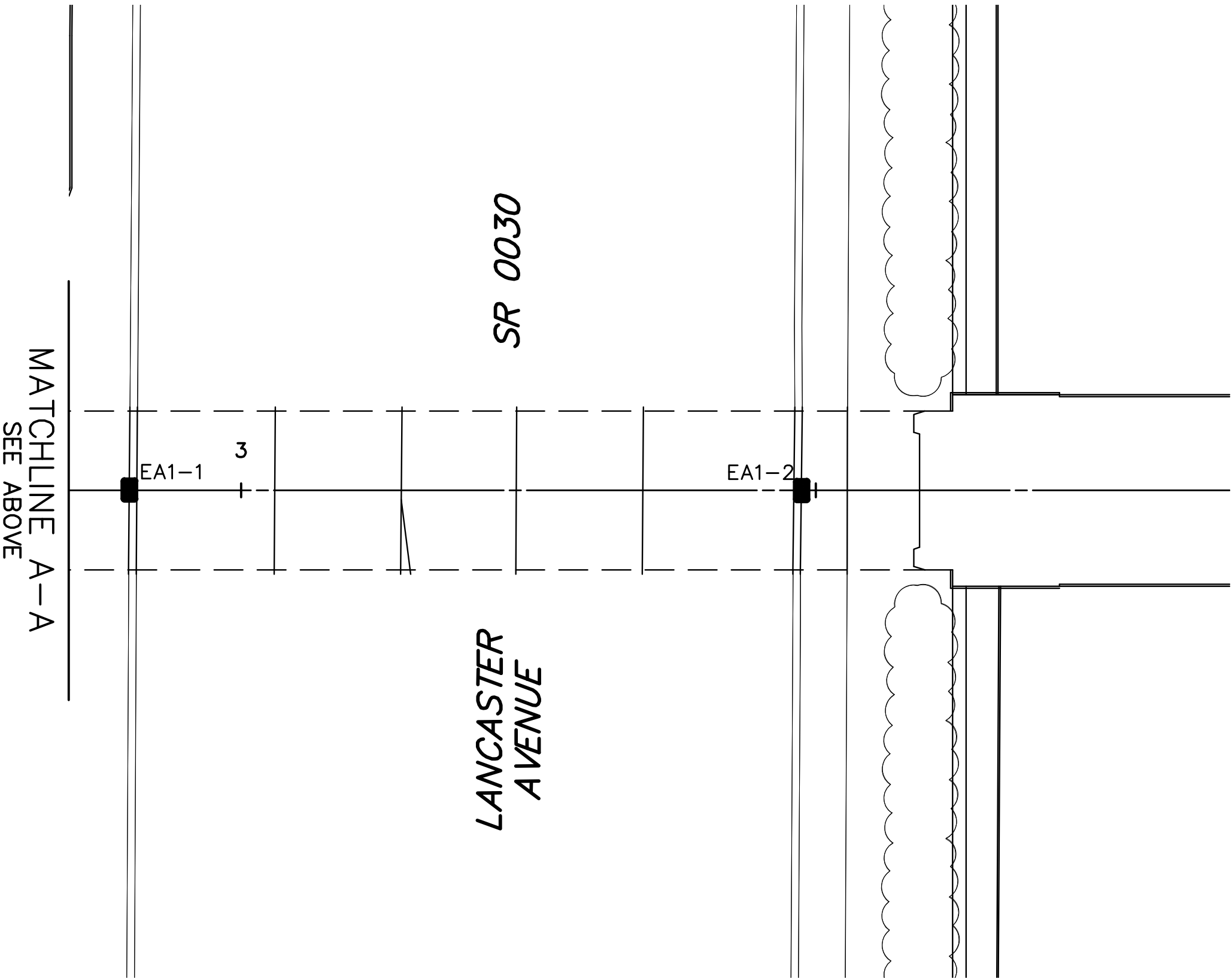
- RECESSED EXTERIOR NEUTRAL LED DOWNLIGHT, AL8, ITEM 9000-0029
- SURFACE MOUNTED EXTERIOR NEUTRAL LED CANOPY FIXTURE, EA1, ITEM 9000-0030
- EXTERIOR PENDANT MOUNTED DECORATIVE LED FIXTURE, EC02, ITEM 9000-0031
- RECESSED COMPACT FLUORESCENT WALL LIGHT, ER1, ITEM 9000-0032
- EXTERIOR RECESSED ROUND NEUTRAL LED STEP LIGHT, ER2, ITEM 9000-0033
- EXTERIOR RECESSED NEUTRAL LED STEP LIGHT, ER3, ITEM 9000-0034
- EXTERIOR RECESSED MEDIUM OUTPUT 4'-0" LED FIXTURE, ER4D, ITEM 9000-0035
- EXTERIOR RECESSED MEDIUM OUTPUT 2'-0" LED FIXTURE, ER2D, ITEM 9000-0049
- 4' LONG 2-LAMP INDUSTRIAL SURFACE/PENDANT TURRET TYPE FLUORESCENT LIGHT FIXTURE, BCE1, ITEM 9000-0048

**LEGEND CONT'D**

- EXTERIOR RECESSED MEDIUM OUTPUT LED FIXTURE, EW06, ITEM 9000-0050
- RELOCATED EXISTING EXTERIOR DECORATIVE POLE MOUNTED FIXTURE, ZP01, ITEM 9000-0036
- EXISTING EXTERIOR METAL HALIDE PIER MOUNTED FIXTURE TO REMAIN, ZP02
- RELOCATED EXISTING EXTERIOR DECORATIVE PIER MOUNTED FIXTURE, ZP03, ITEM 9000-0037
- RELOCATED EXISTING EXTERIOR 3-HEAD POLE MOUNTED FLOOD LIGHT, ZPF3, ITEM 9000-0048

LIGHT	STATION
ER4D-1	0+34 CL
ER4D-2	1+33 RT
ER4D-3	1+63 LT
ER4D-4	1+63 CL
EC02-1	0+34 CL
AL8-1	1+78 RT
AL8-2	1+78 RT
AL8-3	1+78 LT
ER3-1	1+72 RT
ER3-2	1+72 RT
AL8-4	2+59 RT
AL8-5	2+59 LT
EA1-1	2+90 CL
EA1-2	3+49 CL

LIGHT	STATION
BCE1-1	1+50 LT
BCE1-2	1+61 LT
BCE1-3	1+70 LT
BCE1-4	1+67 RT
BCE1-5	1+67 RT
BCE1-6	1+87 LT
BCE1-7	1+87 LT
BCE1-8	1+87 RT
BCE1-9	1+87 RT
BCE1-10	2+03 CL
BCE1-11	2+14 CL
BCE1-12	2+28 CL
BCE1-13	2+43 CL
BCE1-14	1+98 RT
BCE1-15	2+06 RT





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FINAL LAND DEVELOPMENT  
PLANS

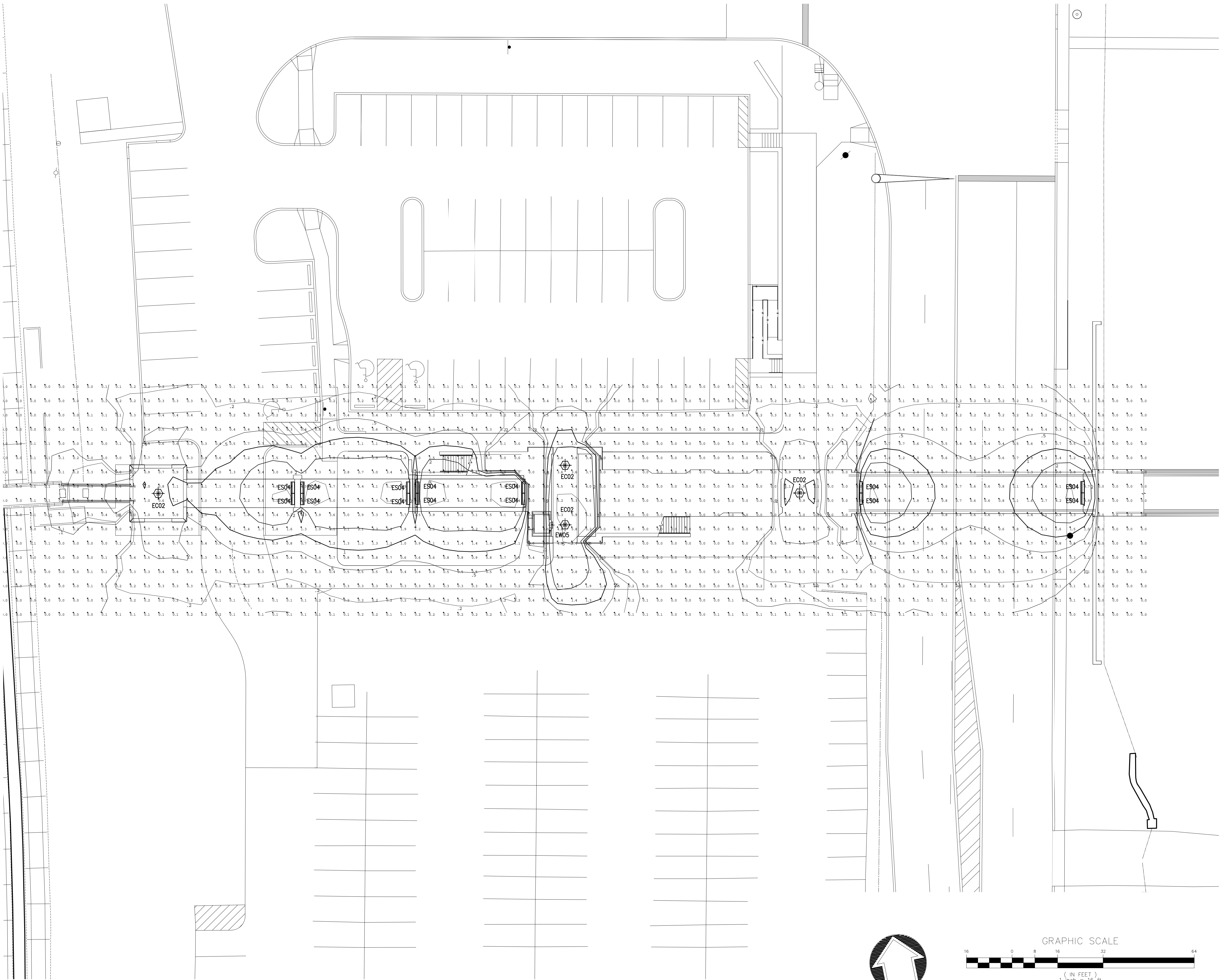
Revision August 10, 2015  
Date March 13, 2015  
Title Site Lighting Plan

Scale 1" = 16'  
Drawn By JO/JL

C7.1

Sheet No. 13 of 20

Contractor to verify all dimensions in field and inform  
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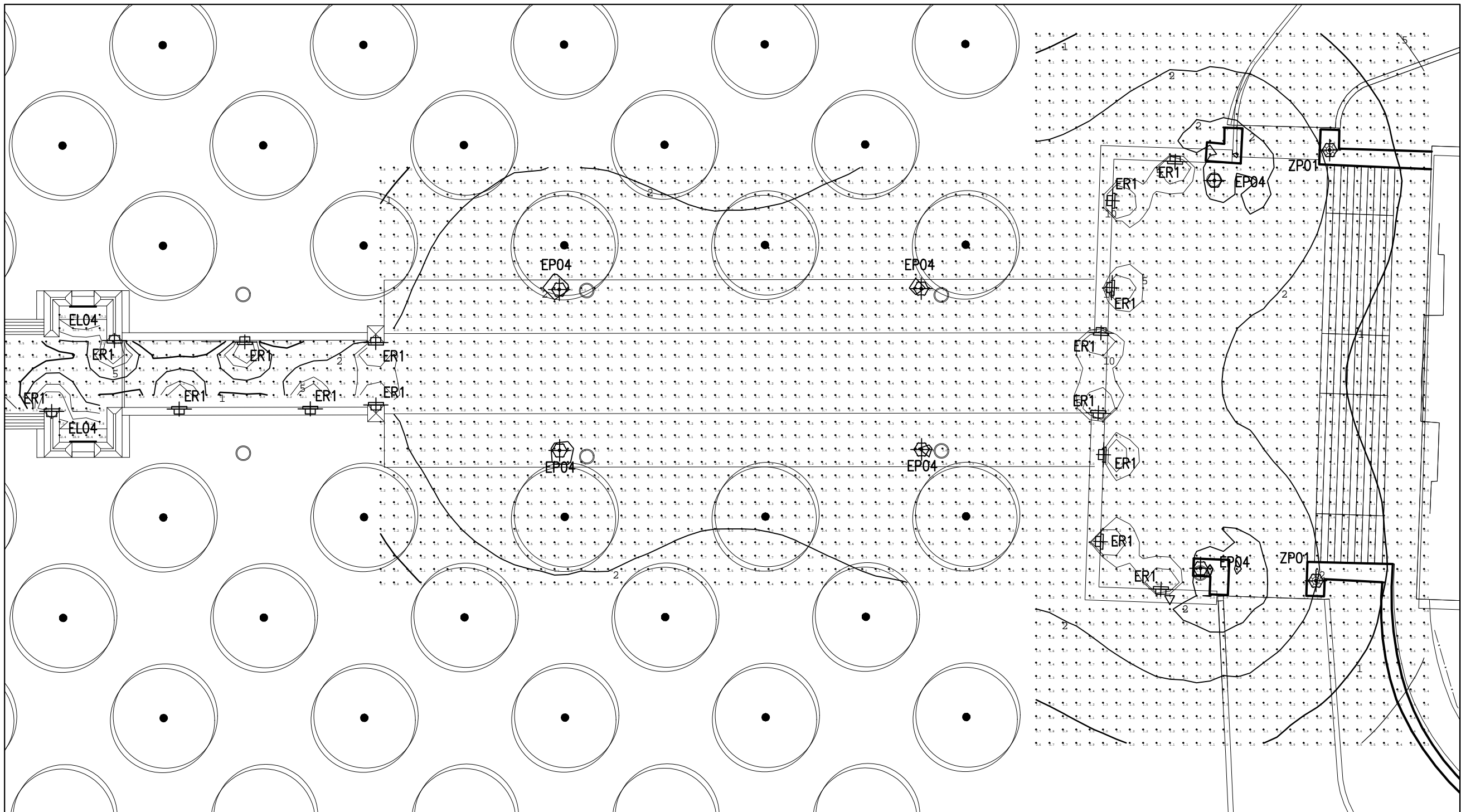
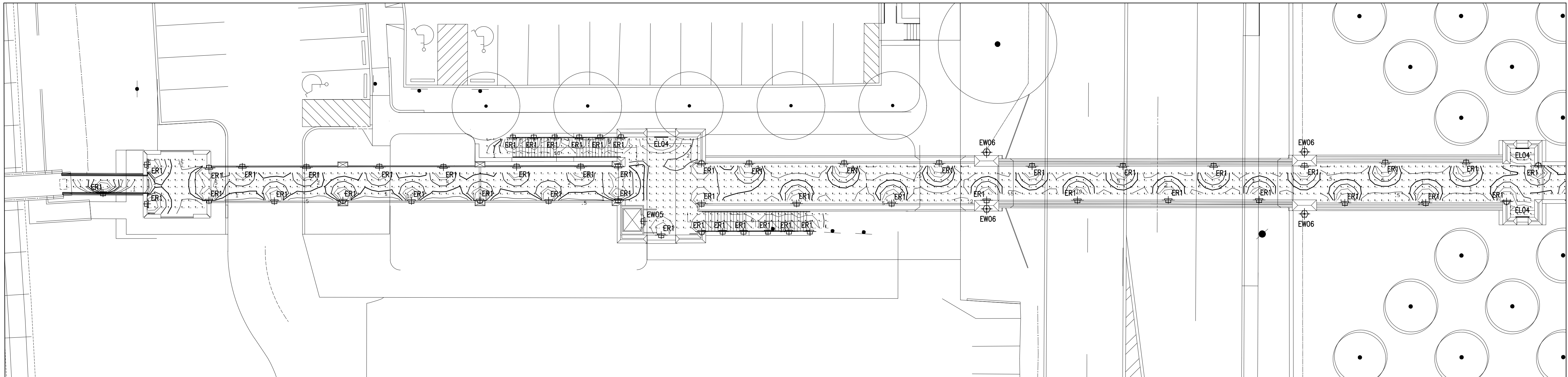
FINAL LAND DEVELOPMENT  
PLANS

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Bridge level  
Scale 1" = 16'  
Drawn By JO/JL

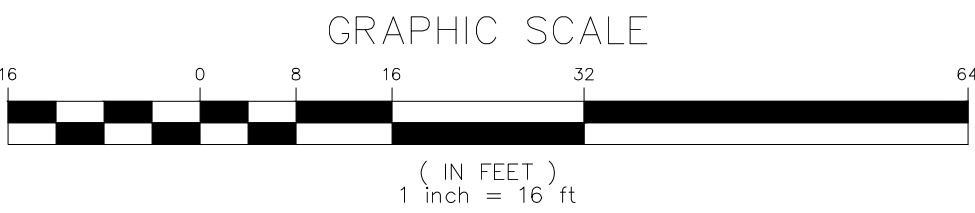
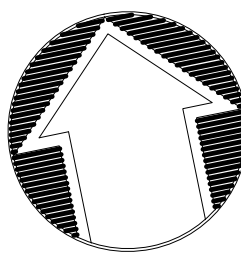
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Sheet No. 14 of 20

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Architect of any discrepancies before starting work.

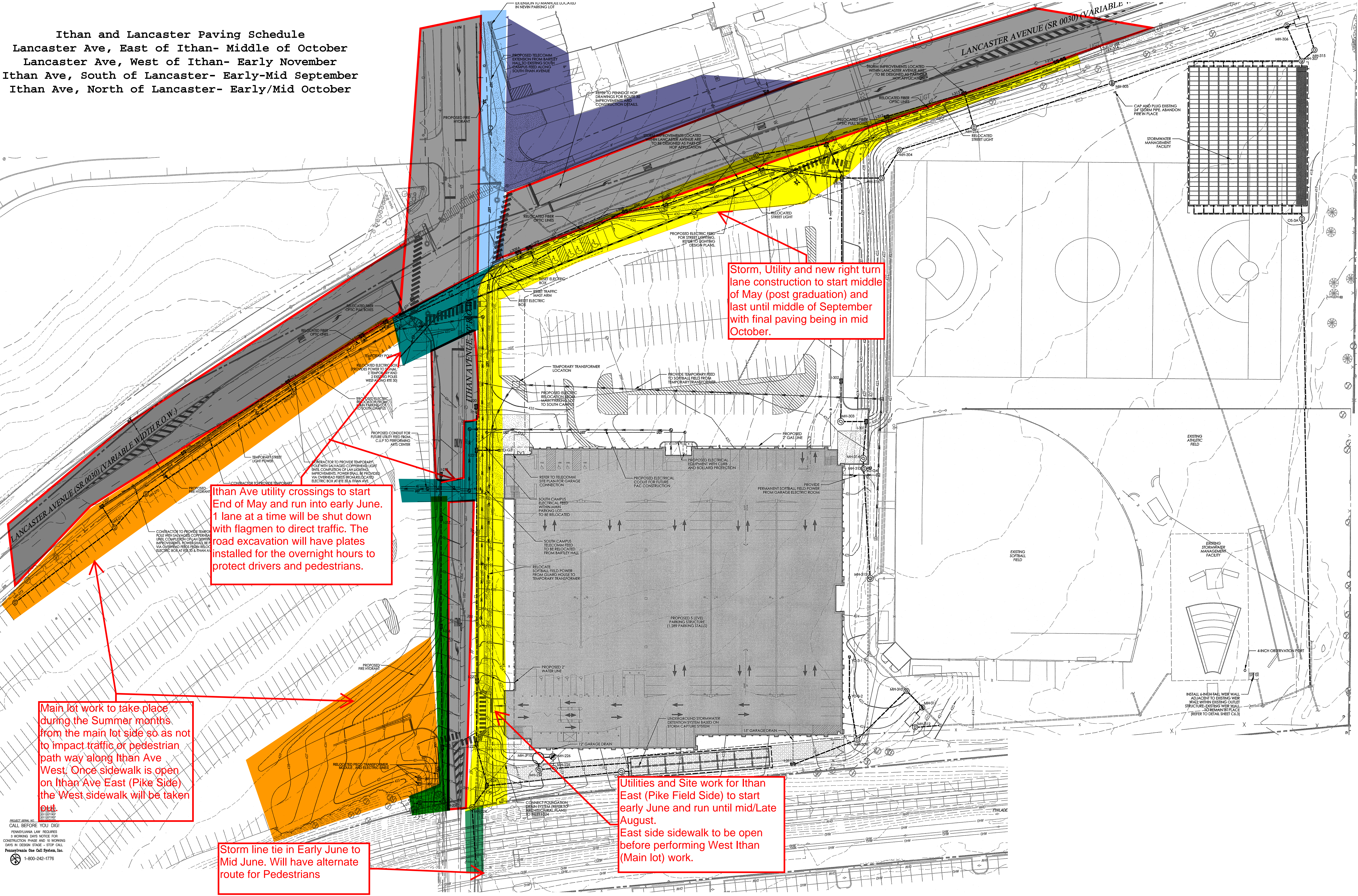


Please note: existing church facade flood lights to be removed during construction and re-installed after construction is completed.





Ithan and Lancaster Paving Schedule  
Lancaster Ave, East of Ithan- Middle of October  
Lancaster Ave, West of Ithan- Early November  
Ithan Ave, South of Lancaster- Early-Mid September  
Ithan Ave, North of Lancaster- Early/Mid October



Storm, Utility and new right turn lane construction to start middle of May (post graduation) and last until middle of September with final paving being in mid October.

Ithan Ave utility crossings to start End of May and run into early June. 1 lane at a time will be shut down with flagmen to direct traffic. The road excavation will have plates installed for the overnight hours to protect drivers and pedestrians.

Main lot work to take place during the Summer months from the main lot side so as not to impact traffic or pedestrian path way along Ithan Ave West. Once sidewalk is open on Ithan Ave East (Pike Side) the West sidewalk will be taken out.

Storm line tie in Early June to Mid June. Will have alternate route for Pedestrians

Utilities and Site work for Ithan East (Pike Field Side) to start early June and run until mid/Late August. East side sidewalk to be open before performing West Ithan (Main lot) work.