



LIGHTING ORDINANCE COMPLIANCE CHART (WEST WINDSOR, NJ)			
ORDINANCE SECTION	ORDINANCE REQUIREMENT	REQUIRED/PROPOSED	COMPLIANCE
200-31 LIGHTING	B. The maximum height of freestanding lights shall be the same as the principal building, but not exceeding 25 feet.	Proposed: Light fixtures mounted at 25 ft. max. height	COMPLIES
	K. The following intensity in footcandles shall be provided: (1) Parking lots: minimum not to exceed 0.5 fc (per 01/27/22 correspondence with West Windsor Township) (2) Intersections: 3.0 footcandles. (3) Maximum at property lines: 1.0 footcandles.	Proposed: 0.5 footcandle average throughout site, 3.0 footcandle minimum at intersections, and 1.0 footcandle maximum at property lines.	COMPLIES

SITE LIGHTING STATISTICS					
DESCRIPTION	AVG. (FC)	MAX. (FC)	MIN. (FC)	AVG./MIN.	MAX./MIN.
Property Line	0.0 fc	0.5 fc	0.0 fc	N.A.	N.A.
Intersections	3.0 fc	8.6 fc	0.6 fc	5.0:1	14.3:1
Overall Driveway	2.5 fc	7.9 fc	0.5 fc	5.0:1	15.8:1
Overall Sidewalk	2.2 fc	8.8 fc	0.5 fc	4.4:1	17.6:1
Building A1					
Driveway	2.6 fc	8.8 fc	0.5	5.2:1	17.6:1
Passenger Parking	1.5 fc	3.5 fc	0.5 fc	2.6:1	7.0:1
Sidewalk	2.2 fc	4.1 fc	0.6 fc	3.7:1	6.8:1
Truck Court	2.2 fc	10.0 fc	0.5 fc	4.4:1	20.0:1
Building B1					
Driveway	2.5 fc	8.6 fc	0.5 fc	5.0:1	17.2:1
Passenger Parking	1.2 fc	3.5 fc	0.5 fc	2.4:1	7.0:1
Sidewalk	1.6 fc	3.6 fc	0.7 fc	2.3:1	5.1:1
Truck Court	2.2 fc	9.3 fc	0.5 fc	4.4:1	18.6:1
Building B2-1					
Passenger Parking	1.3 fc	6.5 fc	0.5 fc	2.6:1	13.0:1
Sidewalk	1.8 fc	5.1 fc	0.7 fc	2.6:1	7.3:1
Truck Court	2.3 fc	9.5 fc	0.5 fc	4.6:1	19.0:1
Building B2-2					
Passenger Parking	1.2 fc	3.5 fc	0.5 fc	2.4:1	7.0:1
Sidewalk	1.7 fc	3.9 fc	0.6 fc	2.9:1	6.5:1
Truck Court	2.4 fc	9.1 fc	0.5 fc	4.7:1	18.2:1
Building C1					
Passenger Parking	1.3 fc	3.1 fc	0.5 fc	2.6:1	6.1:1
Sidewalk	1.7 fc	3.7 fc	0.9 fc	1.8:1	4.1:1
Truck Court	2.3 fc	9.6 fc	0.5 fc	4.6:1	19.2:1
Building D1					
Driveway	2.8 fc	8.5 fc	0.5 fc	5.6:1	17.0:1
Passenger Parking	1.4 fc	4.6 fc	0.5 fc	2.8:1	9.2:1
Sidewalk	1.2 fc	2.5 fc	0.5 fc	2.4:1	5.0:1
Truck Court	2.2 fc	9.5 fc	0.5 fc	4.4:1	19.0:1
Building E1					
Driveway	2.4 fc	7.4 fc	0.5 fc	4.8:1	14.8:1
Passenger Parking	1.6 fc	8.0 fc	0.5 fc	3.2:1	16.0:1
Sidewalk	0.9 fc	1.1 fc	0.6 fc	1.4:1	1.8:1
Truck Court	2.3 fc	9.5 fc	0.5 fc	4.7:1	19.0:1

AMTRACK - UNIRR & CO.  
DESIGNED BY: AMTRACK UNIRR & CO. 1000 W. MAIN ST. SUITE 200  
ROSELAND, NJ 07068

SITE LIGHTING SCHEDULE																
SYMBOL	KEY	QTY.	FIXTURE MFR.	FIXTURE MODEL	FIXTURE DESCRIPTION	FIXTURE MOUNTING HEIGHT	LAMP	OPTICS	LUMENS	LLF	COLOR TEMP.	FIXTURE CATALOGUE NO.	POLE MFR.	POLE DESCRIPTION	POLE LENGTH	POLE CATALOGUE NO.
⊗	A	27	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	BACKLIGHT CONTROL	15,537	0.9	4000K	DSX2-LED-P1-40K-BLC-MVOLT	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	B	69	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE 1 SHORT	16,326	0.9	4000K	DSX2-LED-P1-40K-T1S-MVOLT-HS	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	C	8	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	FORWARD THROW MEDIUM	14,797	0.9	4000K	DSX2-LED-P1-40K-TFTM-MVOLT-HS	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	D	4	LITHONIA	DSX2	WALL MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE IV MEDIUM	27,656	0.9	4000K	DSX2-LED-P3-40K-T4M-MVOLT	LITHONIA	N.A.	-	-
⊗	E	8	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE V SHORT	29,409	0.9	4000K	DSX2-LED-P3-40K-T5S-MVOLT	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	F	45	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE II MEDIUM	37,868	0.9	4000K	DSX2-LED-P5-40K-T2M-MVOLT	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	G	6	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE V WIDE	50,723	0.9	4000K	DSX2-LED-P8-40K-T5W-MVOLT	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	22'	RSS-22-4B-DM19-DBLXD
⊗	H	69	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	FORWARD THROW MEDIUM	49,181	0.9	4000K	DSX2-LED-P8-40K-TFTM-MVOLT	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	H1	86	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	FORWARD THROW MEDIUM	49,181	0.9	4000K	DSX2-LED-P8-40K-TFTM-MVOLT	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	22'	RSS-22-4B-DM19-DBLXD
⊗	I	103	LITHONIA	DSX2	WALL MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	FORWARD THROW MEDIUM	49,181	0.9	4000K	DSX2-LED-P8-40K-TFTM-MVOLT	LITHONIA	N.A.	-	-
⊗	J	5	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE IV MEDIUM	37,364	0.9	4000K	DSX2-LED-PE-40K-T4M-MVOLT-HS	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	K	13	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE II MEDIUM	23,103	0.9	4000K	DSX2-LED-P3-40K-T2M-MVOLT-HS	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	L	13	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE IV MEDIUM	14,397	0.9	4000K	DSX2-LED-P1-40K-T4M-MVOLT-HS	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	25'	RSS-25-4B-DM19-DBLXD
⊗	L1	35	LITHONIA	DSX2	WALL MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE IV MEDIUM	18,551	0.9	4000K	DSX2-LED-P1-40K-T4M-MVOLT	LITHONIA	N.A.	-	-
⊗	M	26	LITHONIA	DSX2	POLE MOUNTED SINGLE AREA LIGHT FIXTURE; COLOR - BLACK	25'	LED	TYPE V WIDE	29,139	0.9	4000K	DSX2-LED-P3-40K-T5W-MVOLT	LITHONIA	ROUND STRAIGHT STEEL; COLOR - BLACK	22'	RSS-22-4B-DM19-DBLXD

NOTES:  
1. ELECTRICAL ENGINEER TO PROVIDE SPECIFICATIONS FOR AUTOMATIC LIGHTING CONTROLS, TIME CLOCK, MOTION SENSORS AND POWER REDUCING CONTROLS THAT CAN BE SET TO MEET CLIENT AND JURISDICTIONAL REQUIREMENTS  
2. NOTE THAT IN SOME CASES, FIXTURES WITH TWO DIFFERENT OPTICS ARE PLACED ON ONE POLE. POLE COUNT SHOULD BE DERIVED FROM PLANS, NOT FIXTURE COUNT

2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

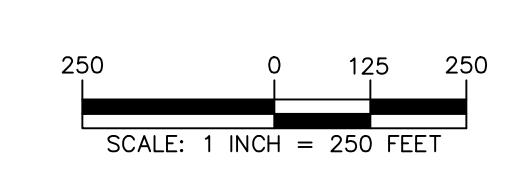
REVISIONS

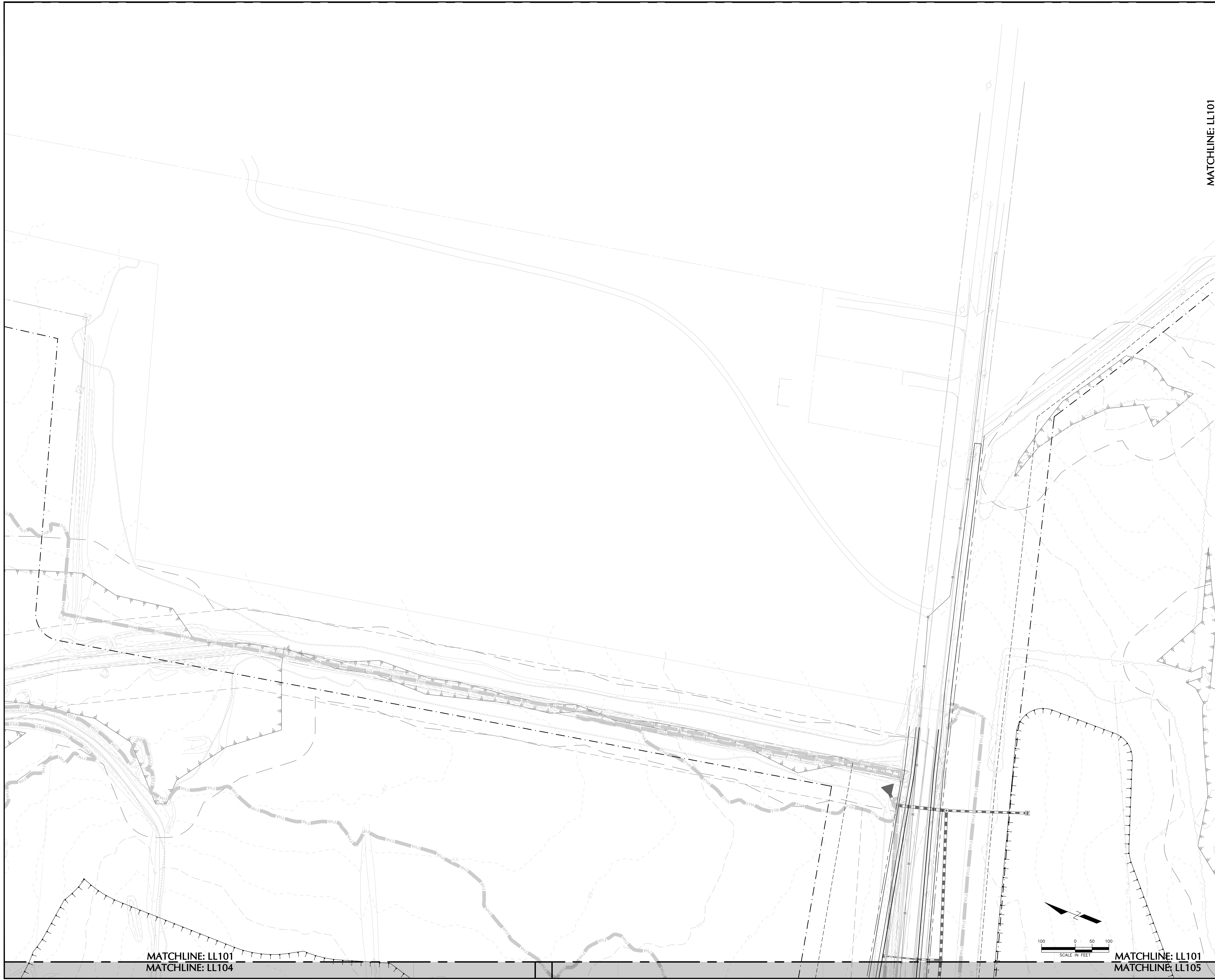
  
 SIGNATURE: JAYNE O. SPECTOR DATE SIGNED: \_\_\_\_\_  
 LANDSCAPE ARCHITECT NJ Lic. No. 21AS00045700

**LANGAN**  
 Langan Engineering and Environmental Services, Inc.  
 988 Lenox Drive, Suite 124  
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 T: 609.282.8000 F: 609.282.8001 www.langan.com  
 NJ CERTIFICATE OF AUTHORIZATION No. 24629796409

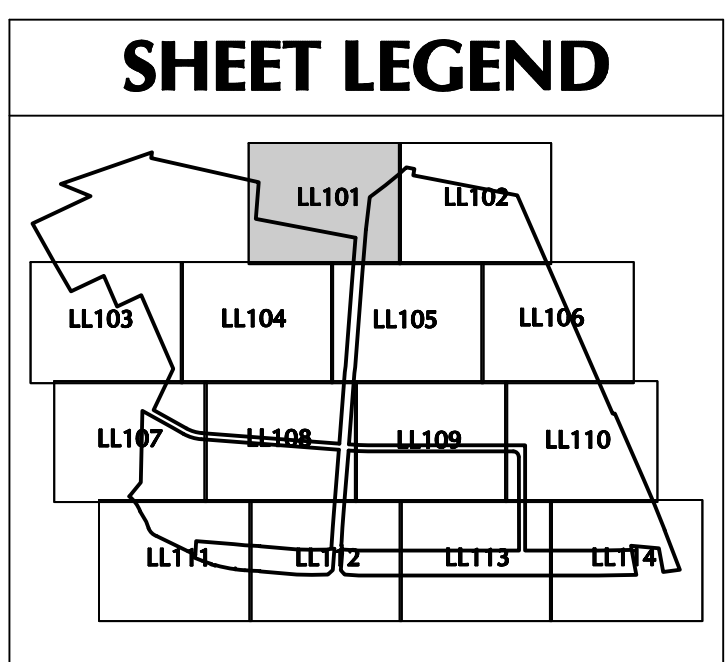
Project: **BRIDGE POINT 8 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY  
 Drawing Title: **OVERALL LIGHTING PLAN**

Project No. **130172801** Drawing No. **LL100**  
 Date: **12/03/2021**  
 Drawn By: **JC**  
 Checked By: **AP/JS**





MATCHLINE: LL101  
MATCHLINE: LL102



2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

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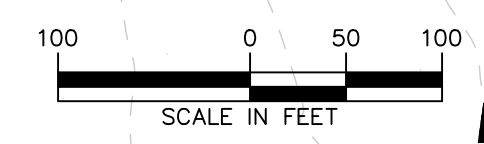
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NJ CERTIFICATE OF AUTHORIZATION No. 246A2798499

Project  
**BRIDGE POINT 8 INDUSTRIAL PARK**  
WEST WINDSOR TOWNSHIP  
MERCER COUNTY NEW JERSEY

Drawing Title  
**SITE LIGHTING PLAN I**

Project No. 130172801	Drawing No. LL101
Date 12/03/2021	Drawn By JC
Checked By AP/JS	XX XX

MATCHLINE: LL101  
MATCHLINE: LL104

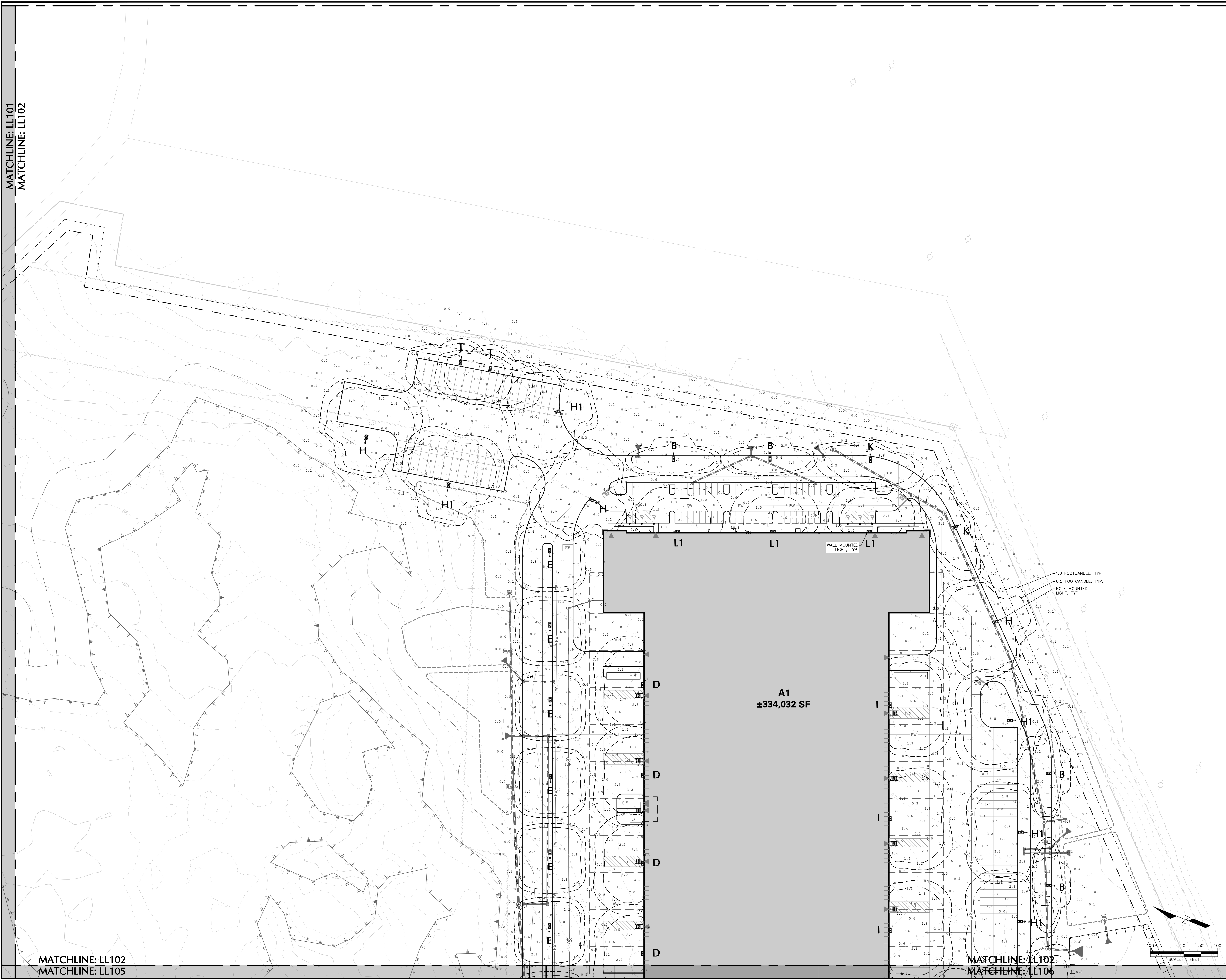
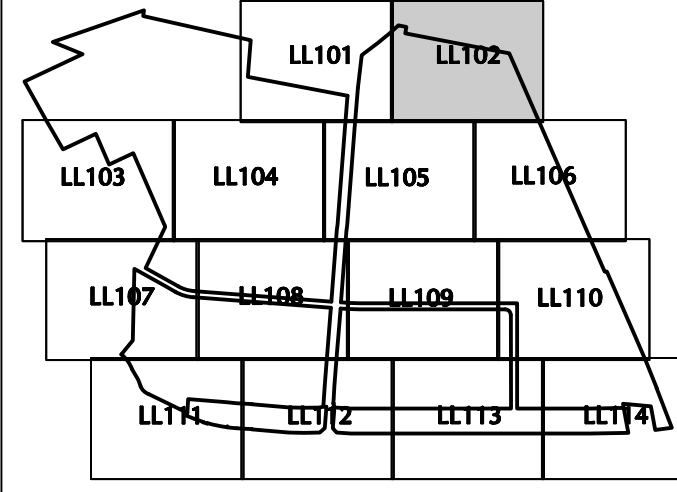


MATCHLINE: LL101  
MATCHLINE: LL105

MATCHLINE: LL101  
MATCHLINE: LL102

LANGAN  
PROJECT NO. 130172801

**SHEET LEGEND**



1.0 FOOTCANDLE, TYP.  
0.5 FOOTCANDLE, TYP.  
POLE MOUNTED LIGHT, TYP.

MATCHLINE: LL102  
MATCHLINE: LL105

MATCHLINE: LL102  
MATCHLINE: LL106

2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

REVISIONS

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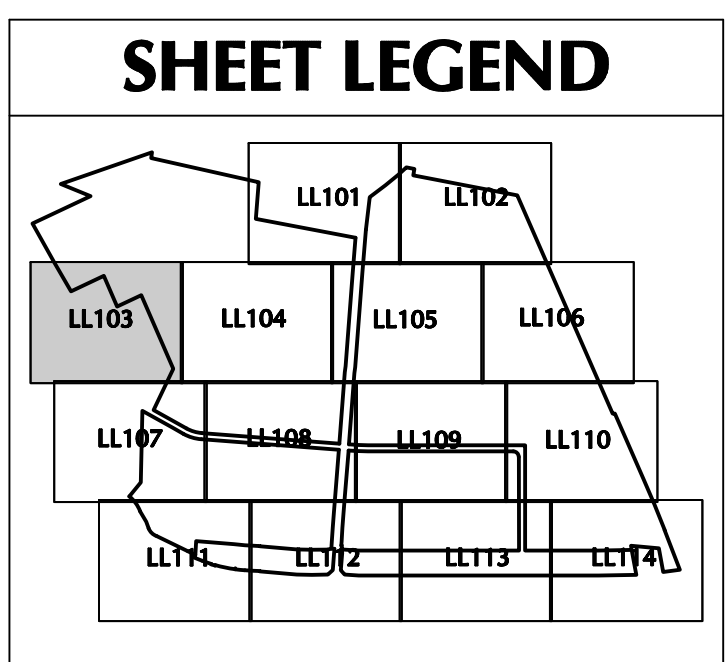
Project  
**BRIDGE POINT 8 INDUSTRIAL PARK**  
WEST WINDSOR TOWNSHIP  
MERCER COUNTY NEW JERSEY

Drawing Title  
**SITE LIGHTING PLAN III**

Project No.	Drawing No.
130172801	LL102
Date	Drawn By
12/03/2021	JC
Drawn By	Checked By
JC	AP/JS
Checked By	XX XX



MATCHLINE: LL103  
MATCHLINE: LL104



Date	Description	No.
2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1

REVISIONS

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SIGNATURE: JAYNE O. SPECTOR DATE SIGNED: 12/3/2021  
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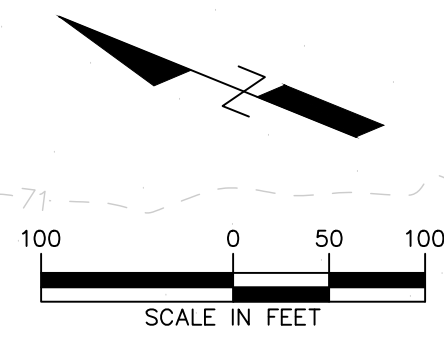
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 Lawrenceville, NJ 08648

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 NJ CERTIFICATE OF AUTHORIZATION No. 246A2798469

Project: **BRIDGE POINT 8 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY

**SITE LIGHTING PLAN III**

Project No.	Drawing No.
130172801	LL103
Date	Drawn By
12/03/2021	JC
Checked By	AP/JS
	XX XX

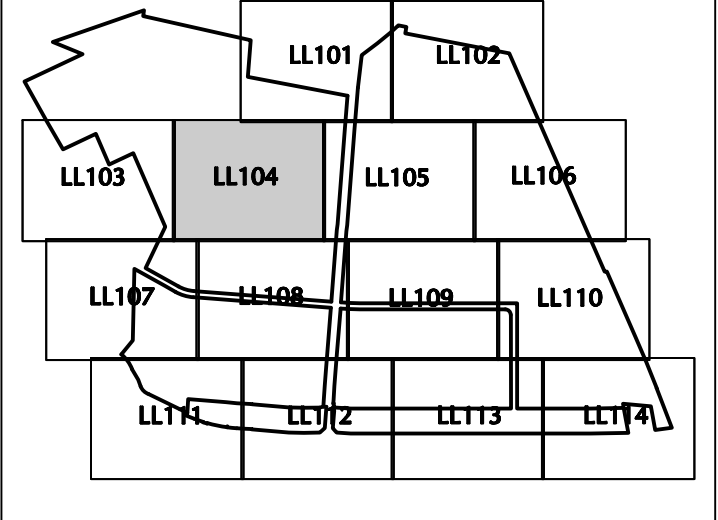


MATCHLINE: LL103  
MATCHLINE: LL107

MATCHLINE: LL104

MATCHLINE: LL104

**SHEET LEGEND**



Date	Description	No.
2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1

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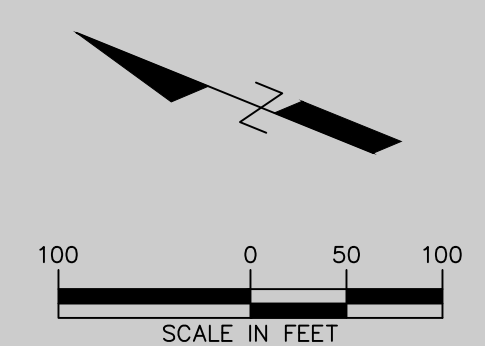
Project: **BRIDGE POINT 8 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY

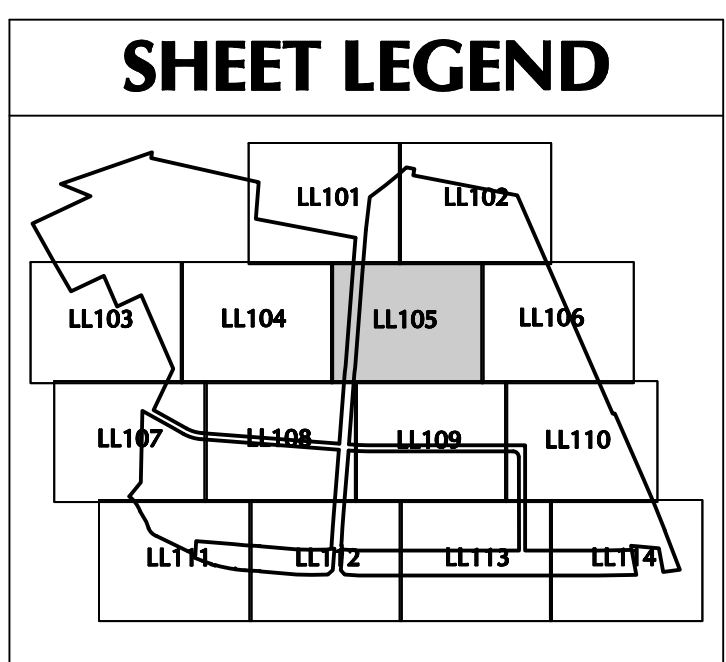
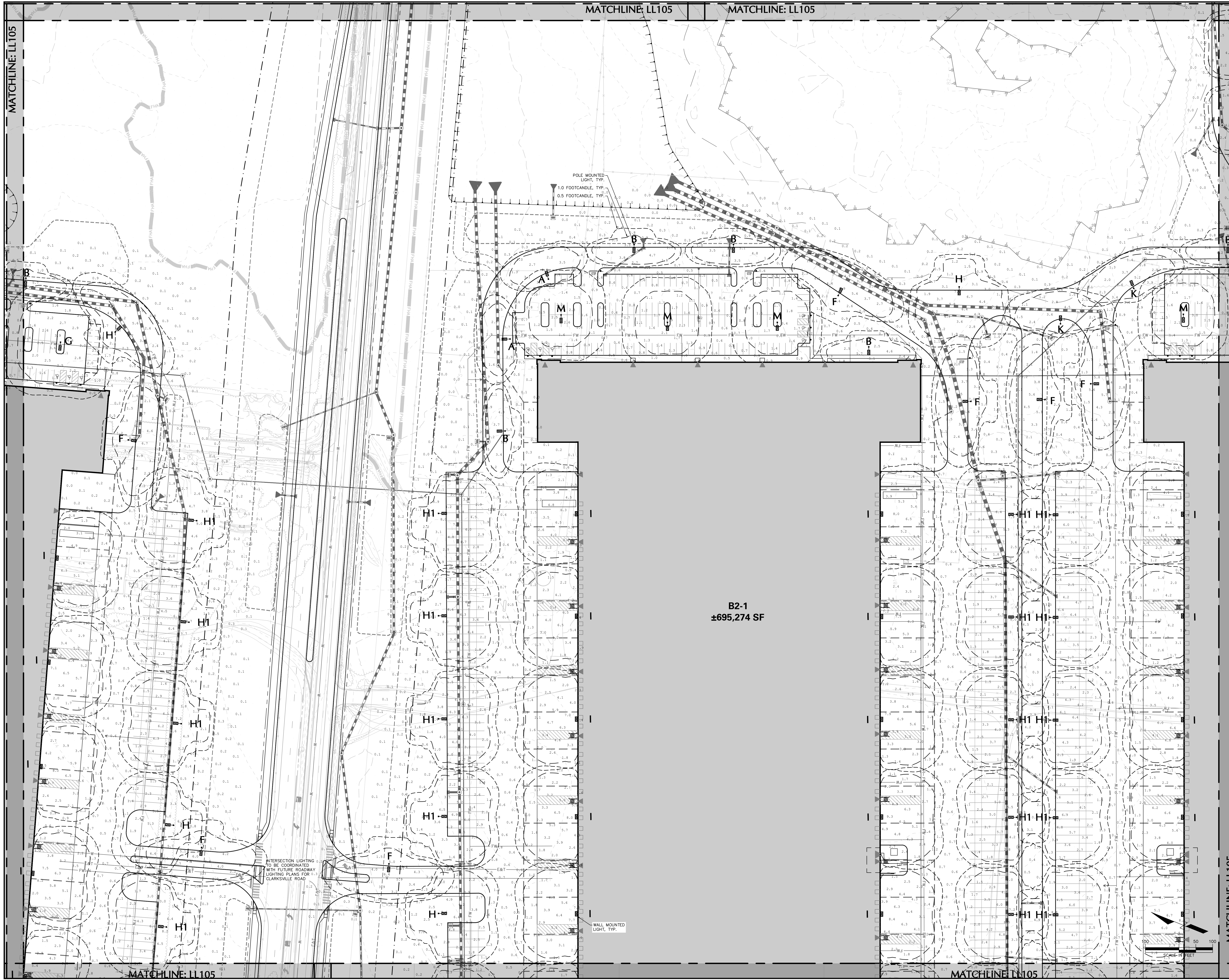
Drawing Title: **SITE LIGHTING PLAN IV**

Project No.	Drawing No.
130172801	LL104
Date	Drawn By
12/03/2021	JC
Checked By	AP/JS
	XX XX

MATCHLINE: LL104

MATCHLINE: LL104





2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

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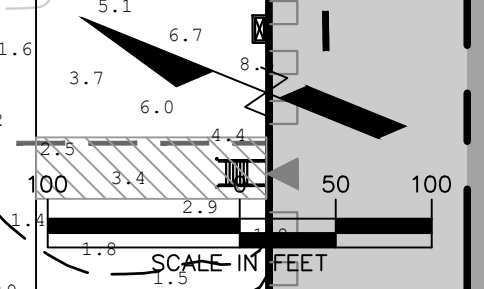
*JOS*  
 SIGNATURE: JAYNE O. SPECTOR DATE SIGNED: 12/3/2021  
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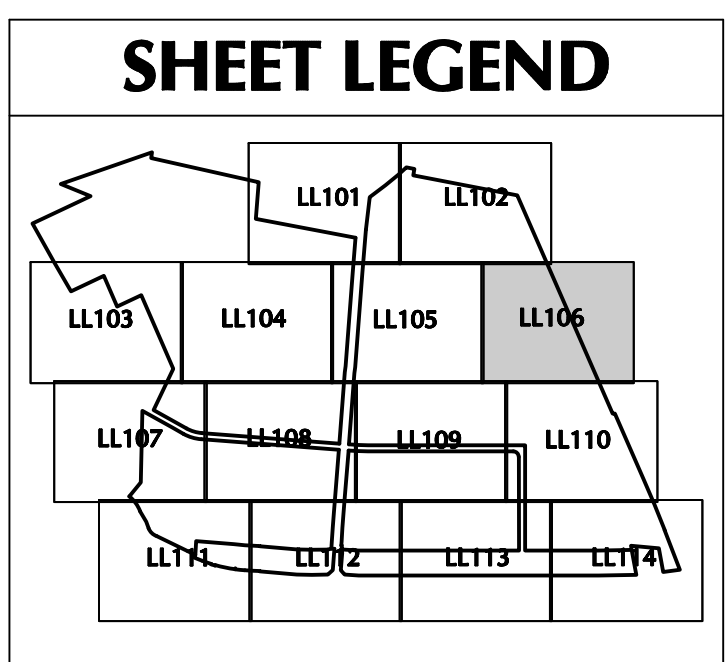
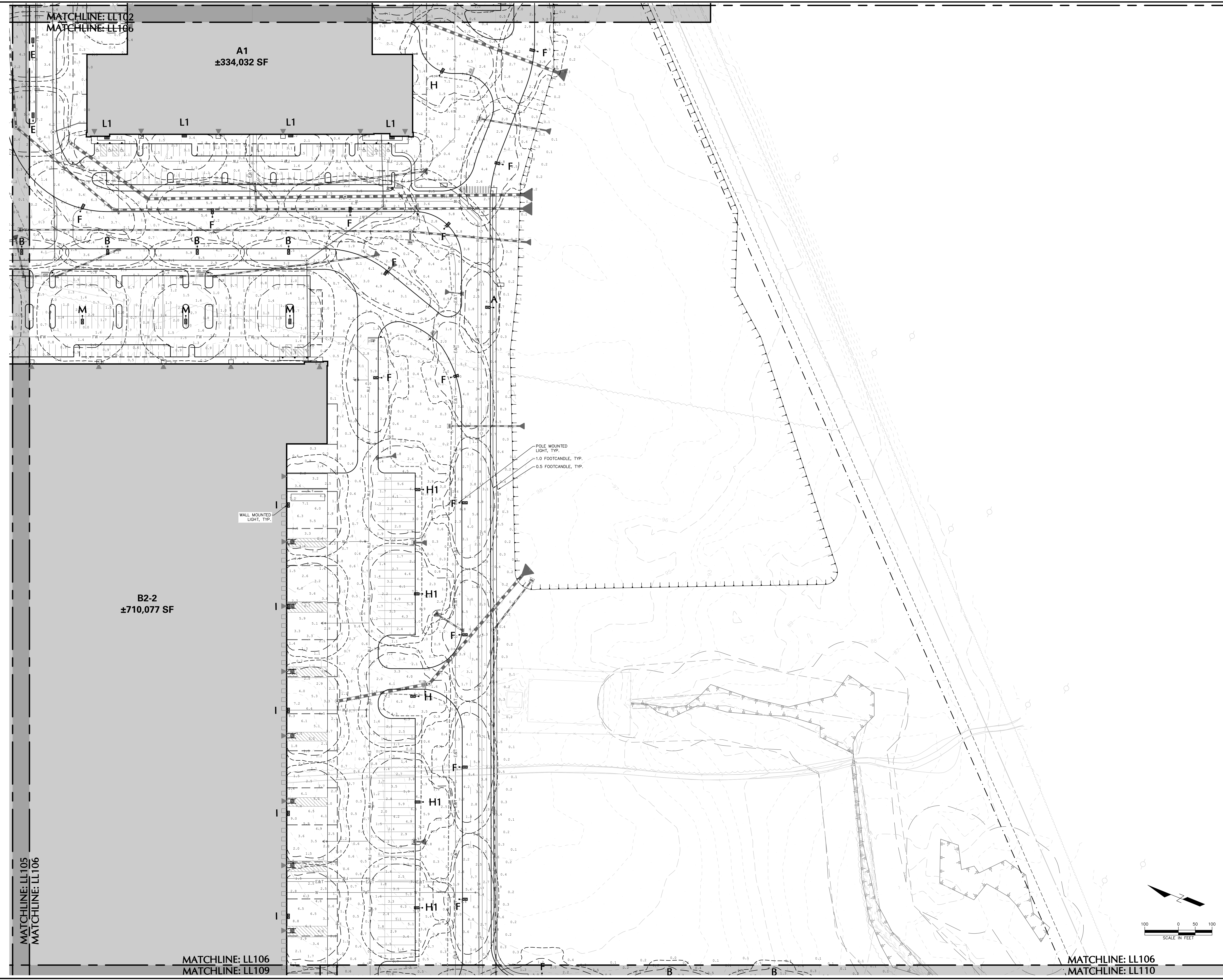
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Project: **BRIDGE POINT 8 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY  
 Drawing Title

**SITE LIGHTING PLAN V**

Project No.	Drawing No.
130172801	LL105
Date	Drawn By
12/03/2021	JC
Checked By	AP/JS





Date	Description	No.
2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1

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*JOS*

SIGNATURE: **JAYNE O. SPECTOR** DATE SIGNED: \_\_\_\_\_  
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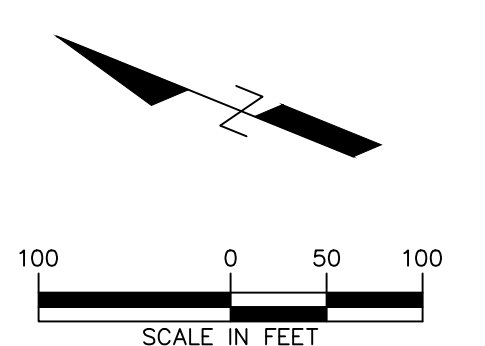
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Project  
**BRIDGE POINT 8 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY

Drawing Title  
**SITE LIGHTING PLAN VI**

Project No. 130172801	Drawing No. LL106
Date 12/03/2021	Drawn By JC
Checked By AP/JS	XX XX



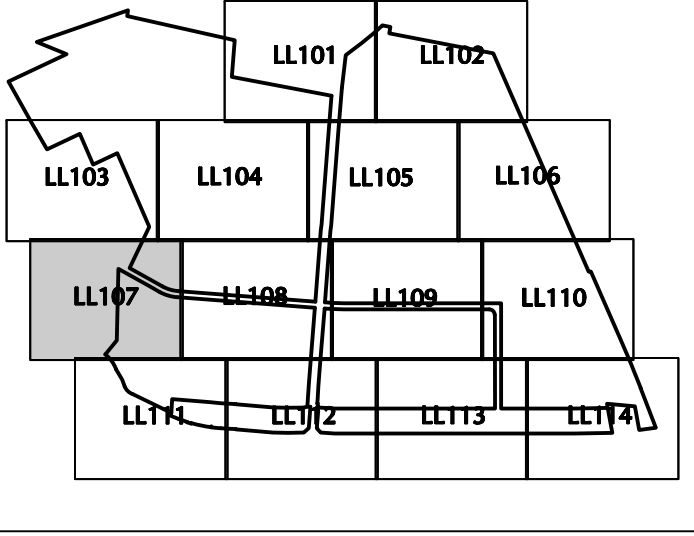
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MATCHLINE: LL106  
 MATCHLINE: LL109

MATCHLINE: LL106  
 MATCHLINE: LL110



**SHEET LEGEND**



2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

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Project: **BRIDGE POINT 8 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY

**SITE LIGHTING PLAN VII**

Project No.	Drawing No.
130172801	LL107
Date	Drawn By
12/03/2021	JC
Checked By	AP/S
	XX XX

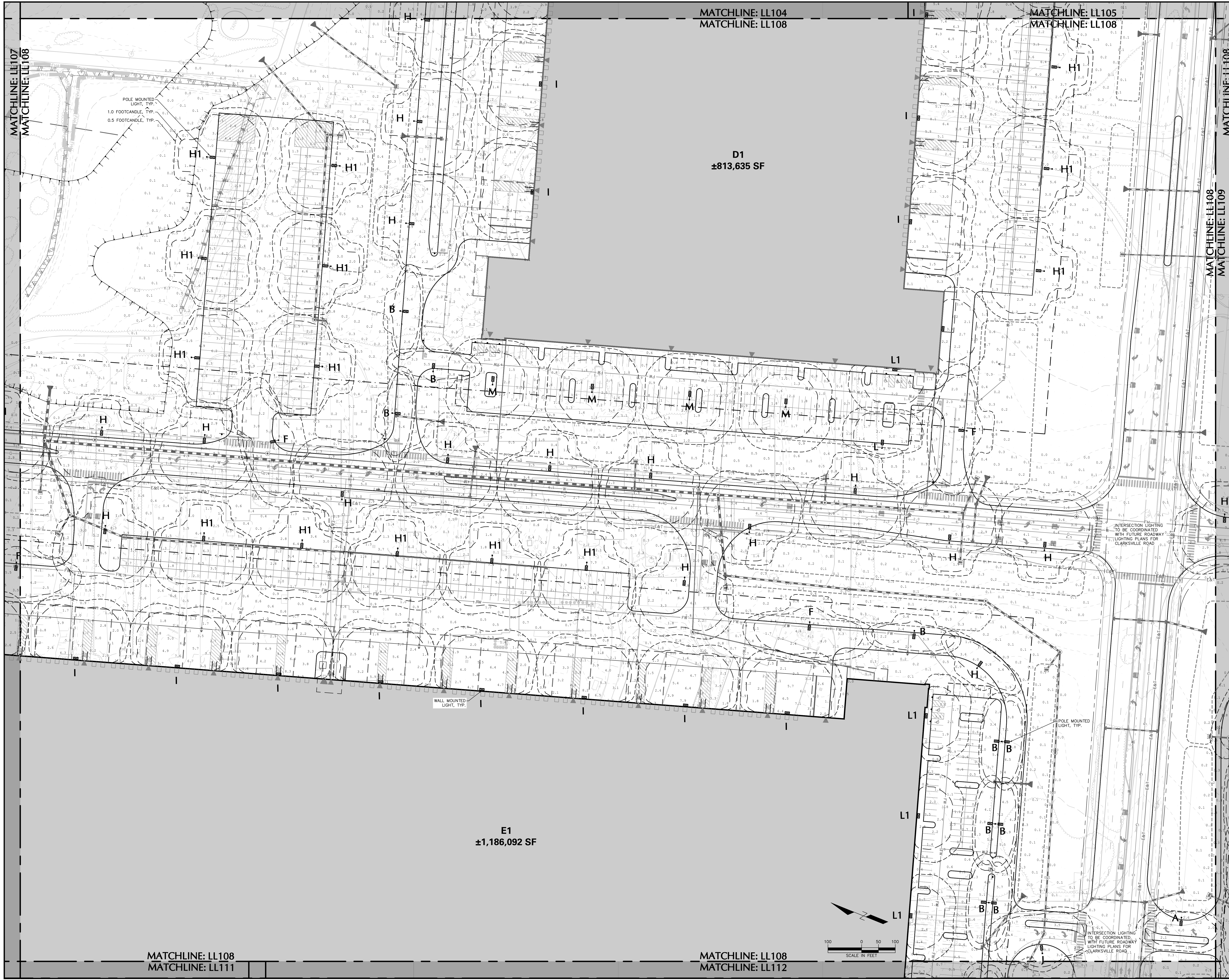
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MATCHLINE: LL108

MATCHLINE: LL107  
MATCHLINE: LL111



LANGAN PROJECT NO. 130172801





MATCHLINE: LL104  
MATCHLINE: LL108

MATCHLINE: LL105  
MATCHLINE: LL108

MATCHLINE: LL107  
MATCHLINE: LL108

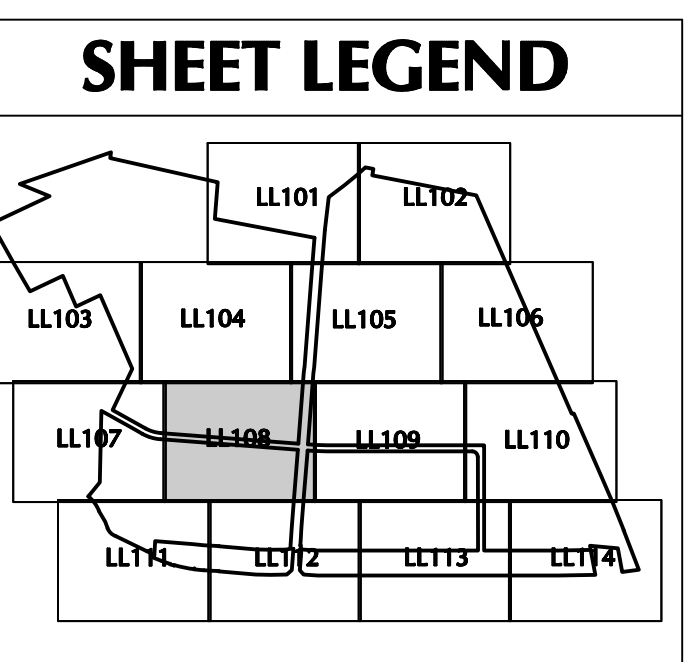
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MATCHLINE: LL109

D1  
±813,635 SF

E1  
±1,186,092 SF

MATCHLINE: LL108  
MATCHLINE: LL111

MATCHLINE: LL108  
MATCHLINE: LL112



Date	Description	No.
12/3/2021	Revised per Township Comments	2
	Completeness Revisions 1	1

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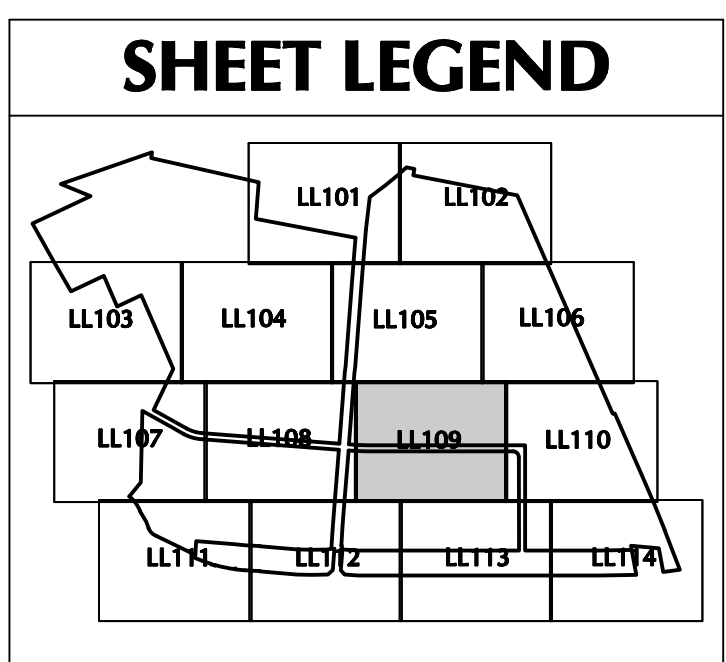
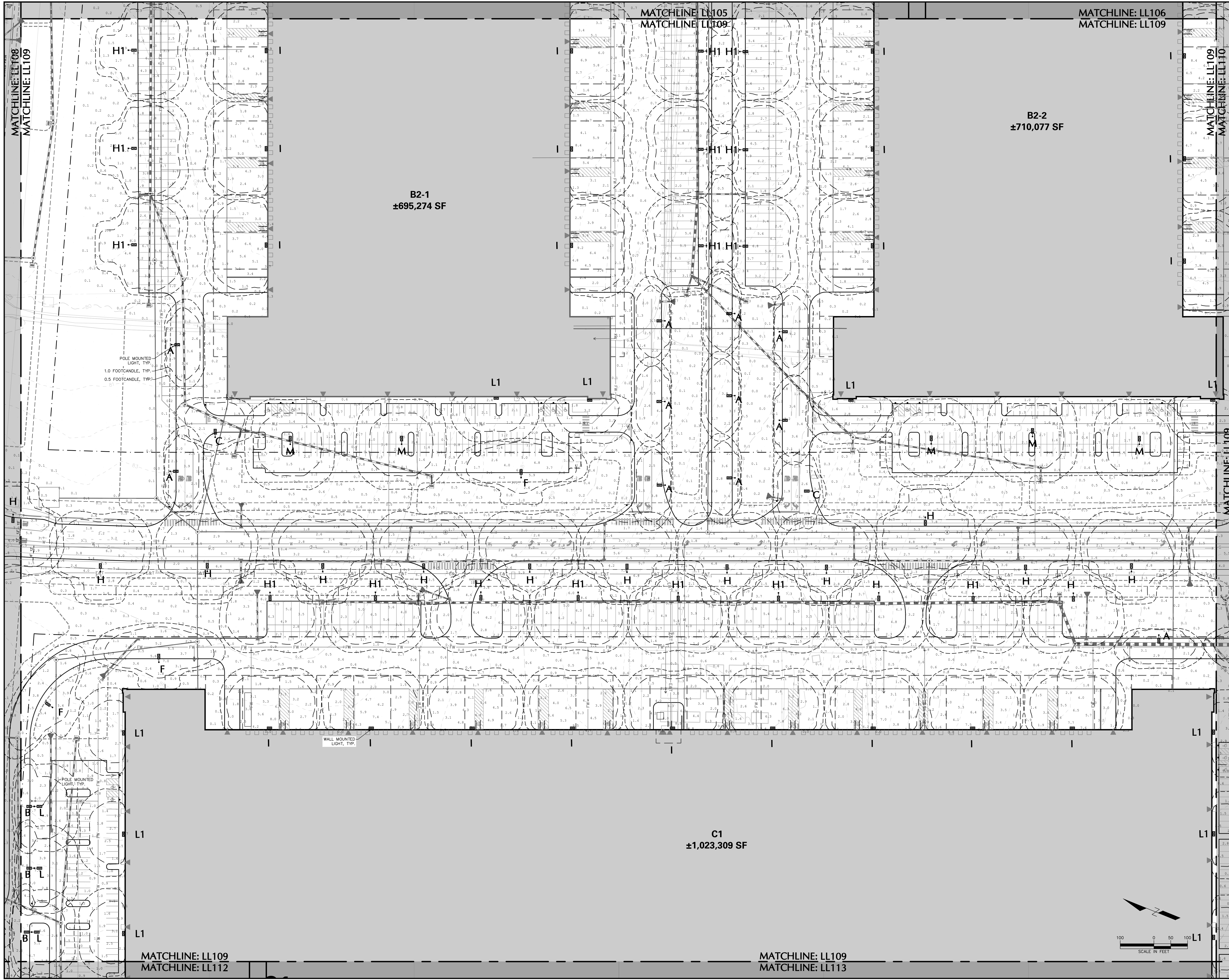
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Project No. 130172801  
**BRIDGE POINT 8 INDUSTRIAL PARK**  
WEST WINDSOR TOWNSHIP  
MERCER COUNTY NEW JERSEY

Drawing Title  
**SITE LIGHTING PLAN VIII**

Project No.	130172801	Drawing No.	LL108
Date	12/03/2021	Checked By	
Drawn By	JC	Checked By	AP/JS



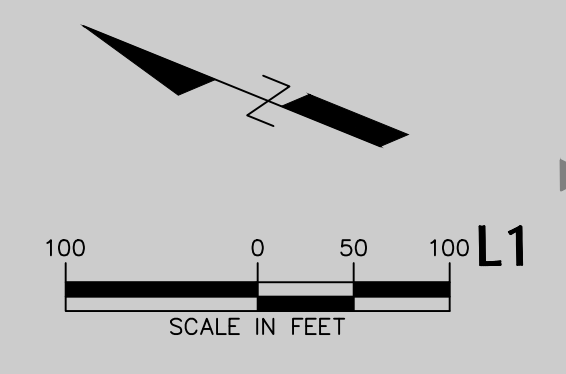
Date	Description	No.
2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1

REVISIONS

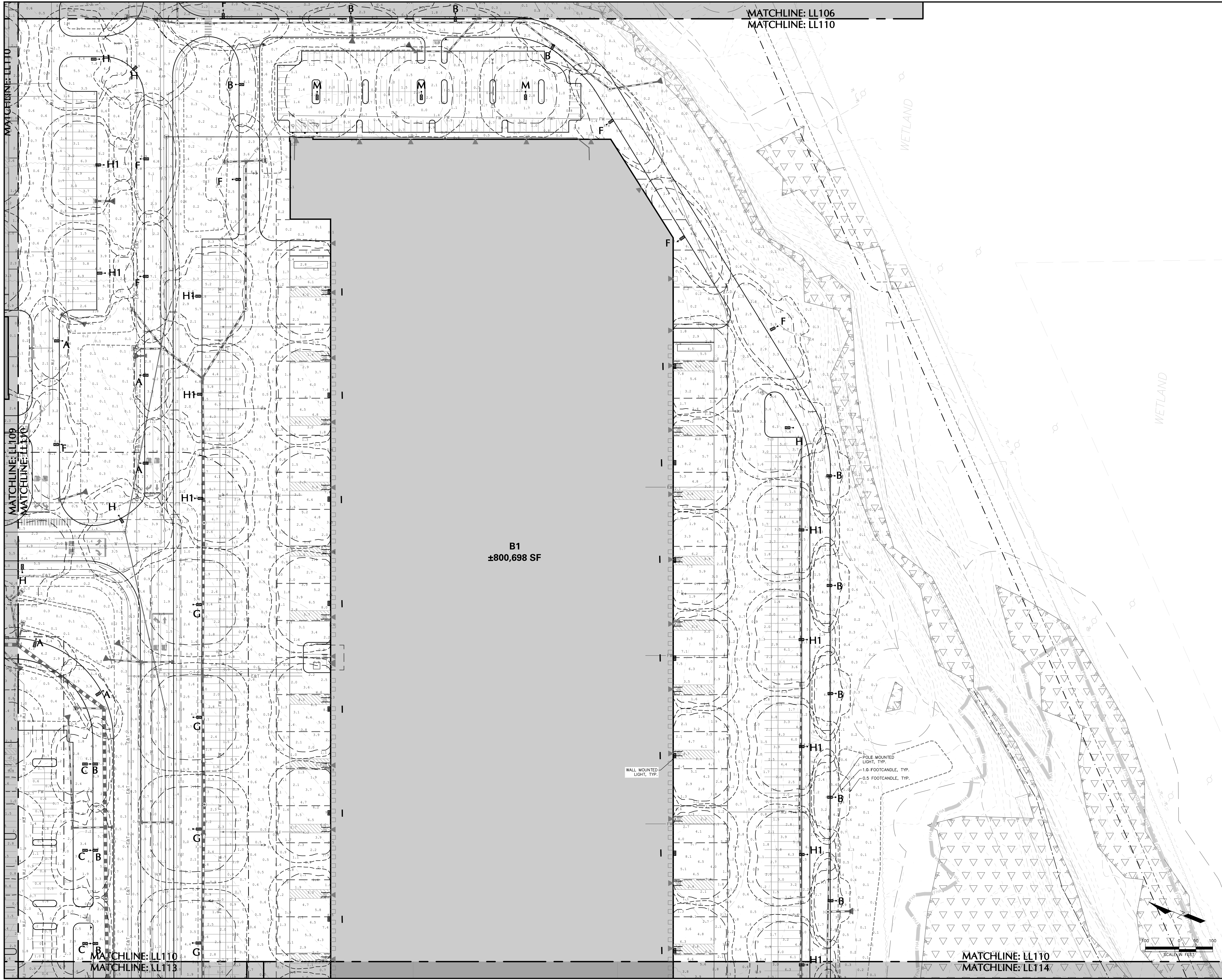
  
 SIGNATURE: JAYNE O. SPECTOR DATE SIGNED: 2/15/2022  
 LANDSCAPE ARCHITECT NJ Lic. No. 21AS00045700  
**LANGAN**  
 Langan Engineering and Environmental Services, Inc.  
 989 Lenox Drive, Suite 124  
 Lawrenceville, NJ 08648  
 T: 609.282.8000 F: 609.282.8001 www.langan.com  
 NJ CERTIFICATE OF AUTHORIZATION No. 246A2798469

Project: **BRIDGE POINT 8 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY  
 Drawing Title:

**SITE LIGHTING PLAN IX**  
 Project No. 130172801 Drawing No. LL109  
 Date 12/03/2021  
 Drawn By JC  
 Checked By AP/JS



LANGAN PROJECT NO. 130172801



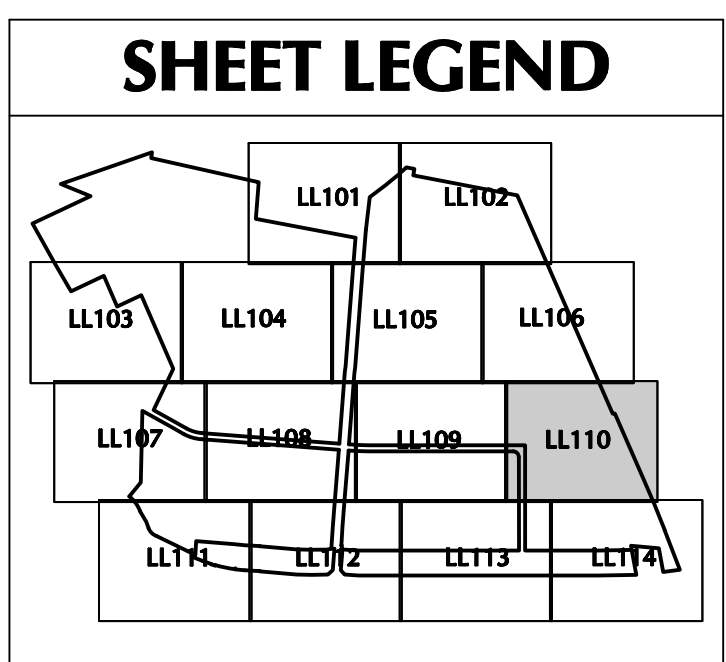
MATCHLINE: LL106  
MATCHLINE: LL110

MATCHLINE: LL109  
MATCHLINE: LL110

B1  
±800,698 SF

MATCHLINE: LL110  
MATCHLINE: LL113

MATCHLINE: LL110  
MATCHLINE: LL114



2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

*JOS*

SIGNATURE: JAYNE O. SPECTOR DATE SIGNED: 12/3/2021  
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NJ CERTIFICATE OF AUTHORIZATION No. 24624798469

Project: **BRIDGE POINT 8 INDUSTRIAL PARK**  
WEST WINDSOR TOWNSHIP  
MERCER COUNTY NEW JERSEY

**SITE LIGHTING PLAN X**

Project No.	Drawing No.
130172801	LL110
Date	12/03/2021
Drawn By	JC
Checked By	AP/JS
	XX XX

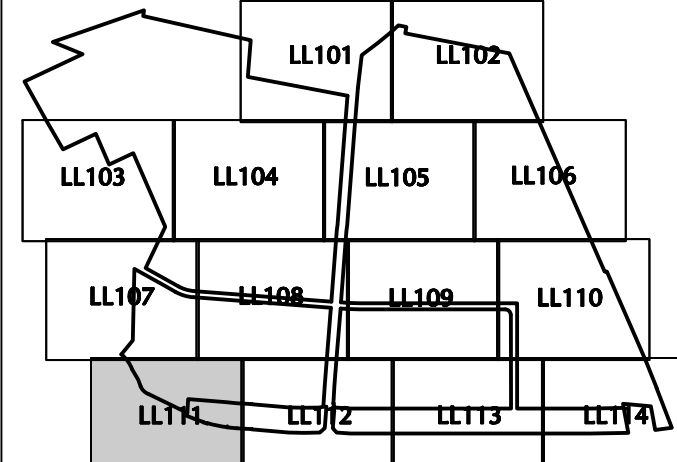


MATCHLINE: LL111

E1  
±1,186,092 SF

MATCHLINE: LL111

**SHEET LEGEND**



BLK 8  
LOT 11

WALL MOUNTED  
LIGHT, TYP.

POLE MOUNTED  
LIGHT, TYP.  
1.0 FOOTCANDLE, TYP.  
0.5 FOOTCANDLE, TYP.

APPROXIMATE MUNICIPAL  
BOUNDARY LINE

2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

REVISIONS

SIGNATURE JAYNE O. SPECTOR DATE SIGNED  
LANDSCAPE ARCHITECT NJ Lic. No.  
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Project

**BRIDGE POINT 8  
INDUSTRIAL PARK**

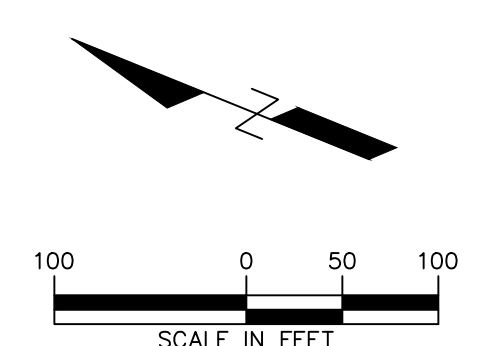
WEST WINDSOR TOWNSHIP

MERCER COUNTY NEW JERSEY

Drawing Title

**SITE LIGHTING  
PLAN XI**

Project No.	Drawing No.
130172801	LL111
Date	12/03/2021
Drawn By	JC
Checked By	AP/JS
	XX XX



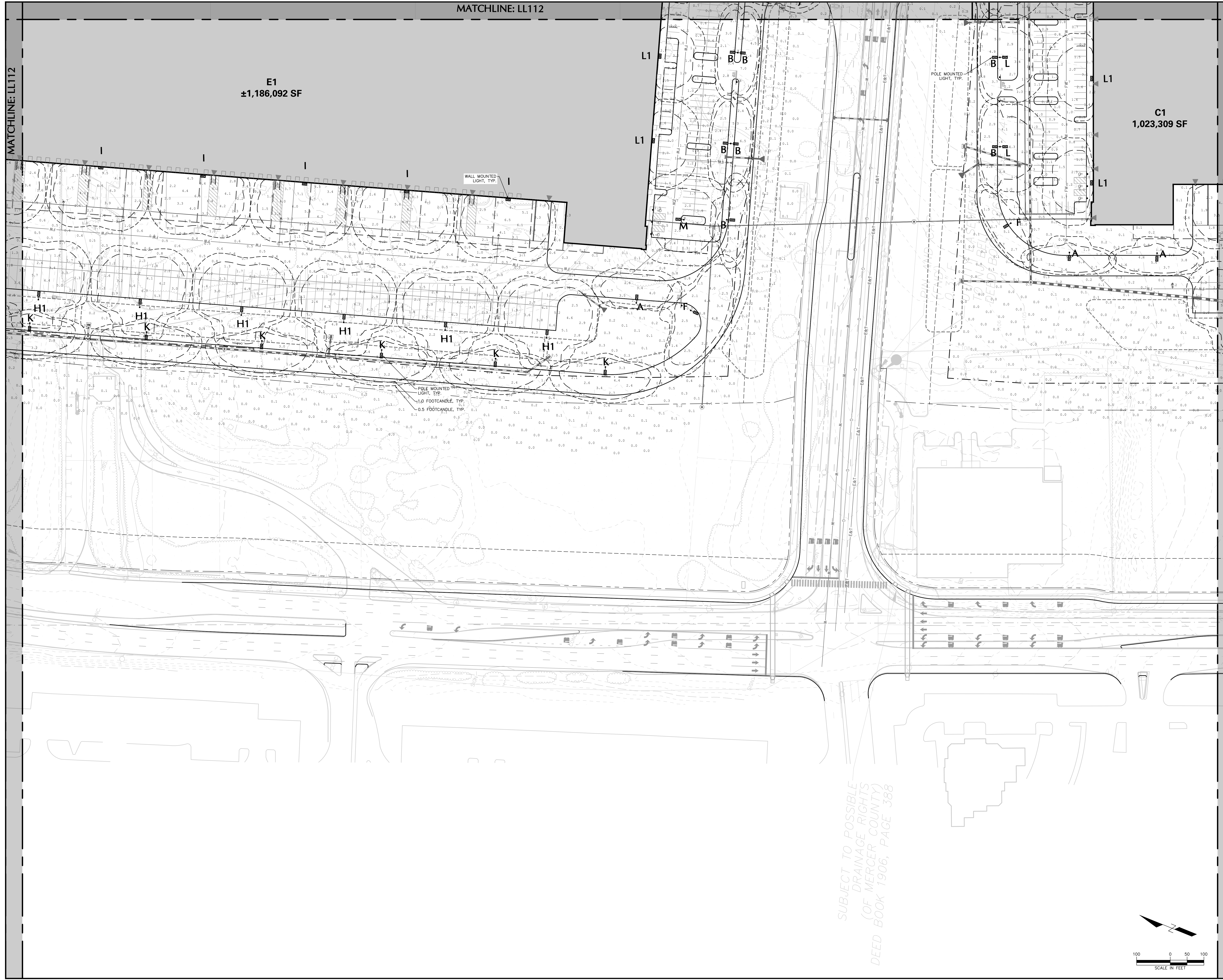
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MATCHLINE: LL112

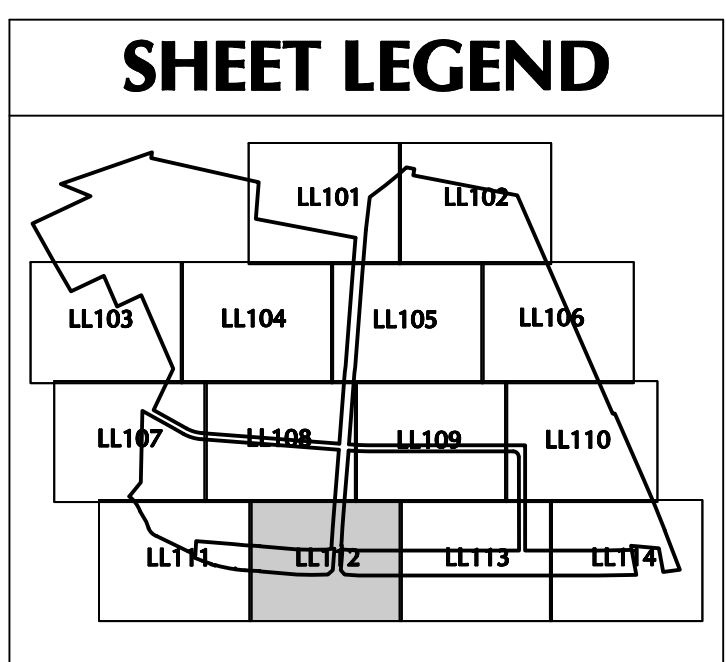
MATCHLINE: LL112

E1  
±1,186,092 SF

C1  
1,023,309 SF



SUBJECT TO POSSIBLE  
DRAINAGE RIGHTS  
(OF MERCER COUNTY)  
DEED BOOK 1906, PAGE 388



Date	Description	No.
2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1

REVISIONS

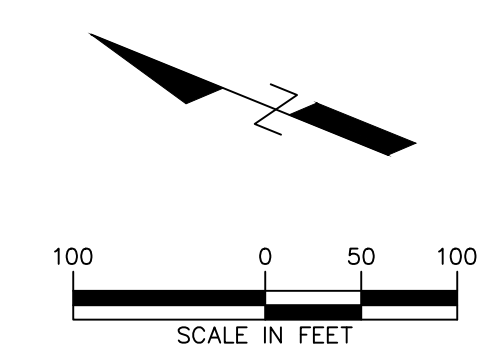
*JOS*  
 SIGNATURE JAYNE O. SPECTOR DATE SIGNED  
 LANDSCAPE ARCHITECT NJ Lic. No. 21AS00045700

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 989 Lenox Drive, Suite 124  
 Lawrenceville, NJ 08648  
 T: 609.282.8000 F: 609.282.8001 www.langan.com  
 NJ CERTIFICATE OF AUTHORIZATION No. 24632798469

Project  
**BRIDGE POINT 8  
 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY

Drawing Title  
**SITE LIGHTING  
PLAN XII**

Project No. 130172801	Drawing No. LL112
Date 12/03/2021	
Drawn By JC	
Checked By AP/JS	XX XX



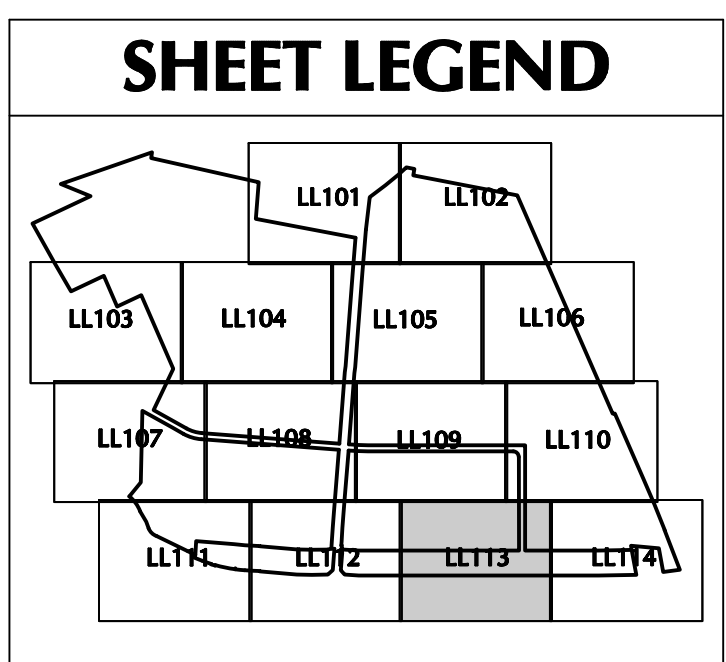
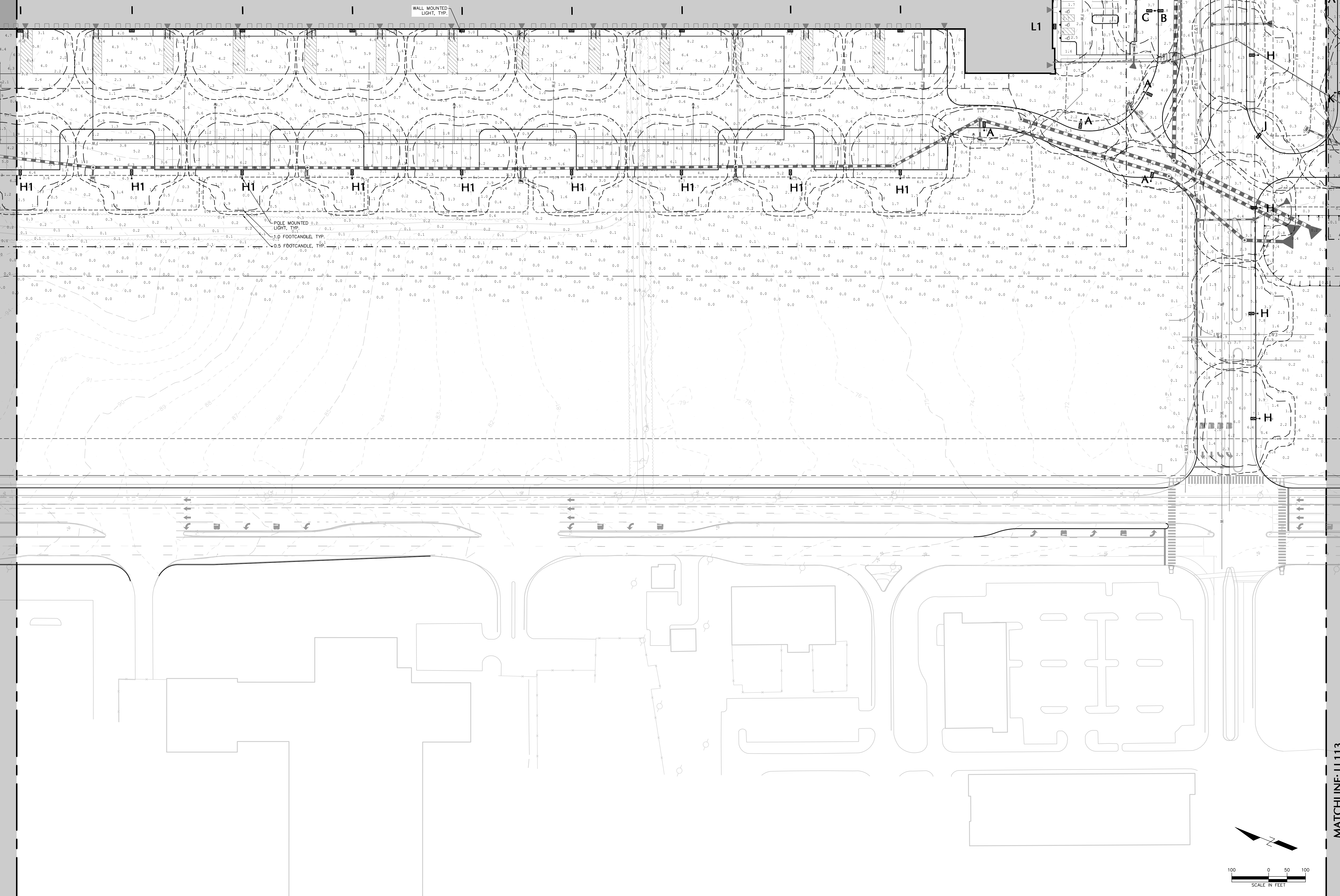
MATCHLINE: LL109  
MATCHLINE: LL113

C1  
±1,023,309 SF

MATCHLINE: LL110  
MATCHLINE: LL113

MATCHLINE: LL112  
MATCHLINE: LL113

MATCHLINE: LL113  
MATCHLINE: LL114



2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

REVISIONS

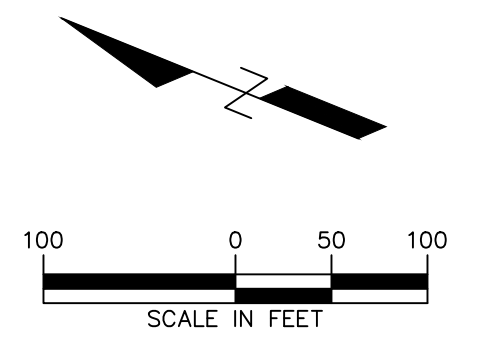
*JOS*  
SIGNATURE  
LANDSCAPE ARCHITECT NJ Lic. No. 21AS00045700

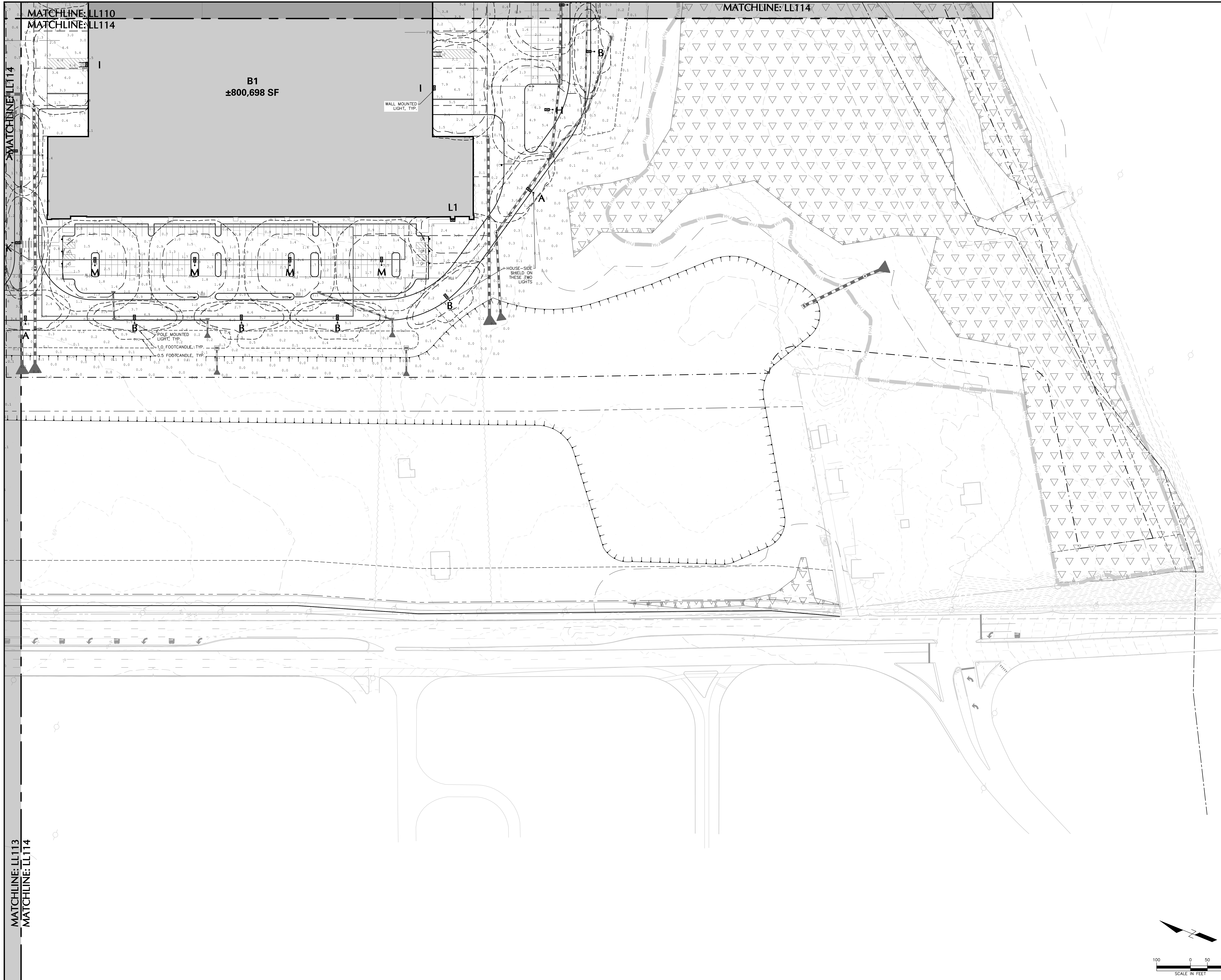
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NJ CERTIFICATE OF AUTHORIZATION No. 246A2798469

Project  
**BRIDGE POINT 8 INDUSTRIAL PARK**  
WEST WINDSOR TOWNSHIP  
MERCER COUNTY NEW JERSEY  
Drawing Title

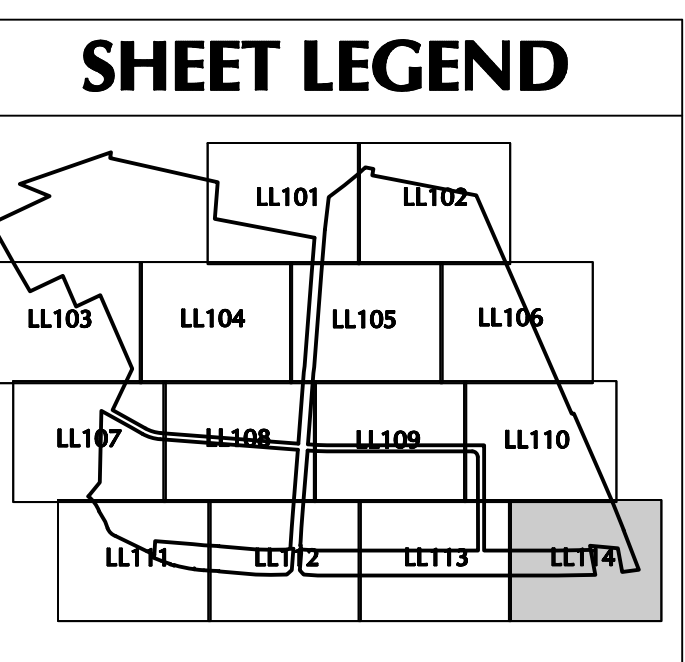
**SITE LIGHTING PLAN XIII**

Project No.	Drawing No.
130172801	LL113
Date	12/03/2021
Drawn By	JC
Checked By	AP/JS





MATCHLINE: LL110  
MATCHLINE: LL114  
MATCHLINE: LL113  
MATCHLINE: LL114



2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

REVISIONS

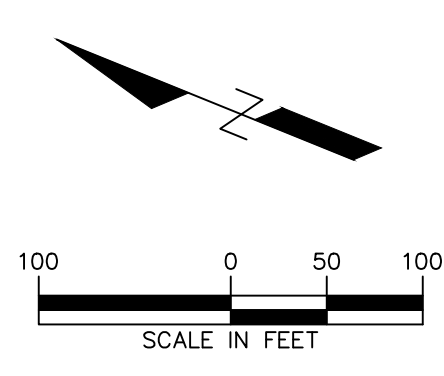
*JOS*  
SIGNATURE: JAYNE O. SPECTOR DATE SIGNED: 12/3/2021  
LANDSCAPE ARCHITECT NJ Lic. No. 21AS00045700

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NJ CERTIFICATE OF AUTHORIZATION No. 246A2798490

Project  
**BRIDGE POINT 8 INDUSTRIAL PARK**  
WEST WINDSOR TOWNSHIP  
MERCER COUNTY NEW JERSEY

Drawing Title  
**SITE LIGHTING PLAN XIV**

Project No. 130172801	Drawing No. LL114
Date 12/03/2021	Checked By JC
Drawn By JC	XX
Checked By AP/JS	XX



**LIGHTING NOTES:**

**GENERAL**

- POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS. NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE PLANS.
- LIGHT LEVEL POINT SPACING IS 20 FT. LEFT TO RIGHT AND 20 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE.

**COMPLIANCE**

- ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
- LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.

**COORDINATION**

- CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
- REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK, TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

**POLES AND FOOTINGS**

- PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.
- CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.

**WALL MOUNTED FIXTURES**

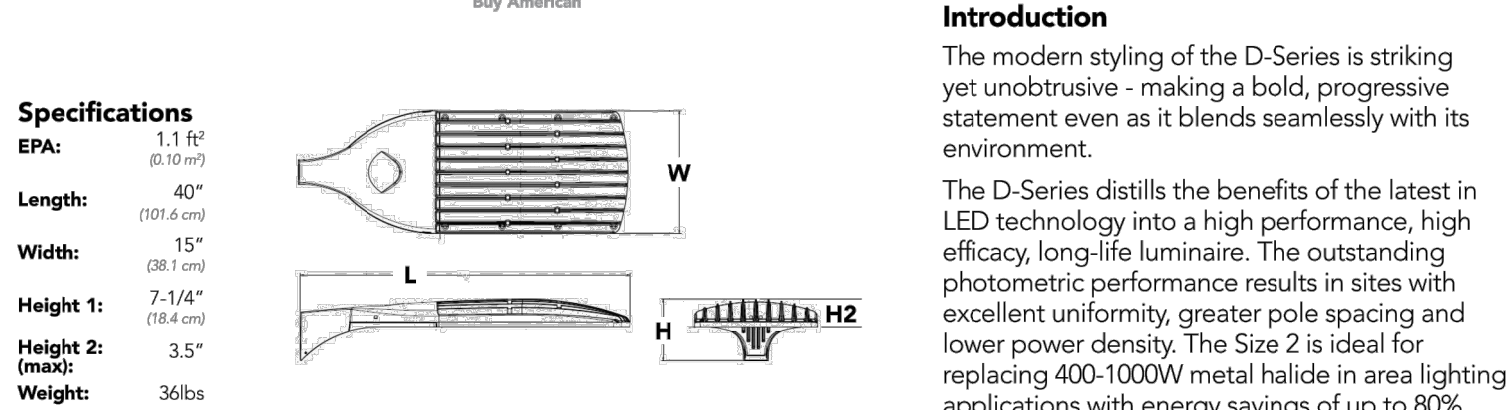
- CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.
- INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

**ADJUSTMENT AND INSPECTION**

- CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

**REQUIREMENTS FOR ALTERNATES**

- ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:
  - ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR.
  - COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOPHOTOCANDLE, THE SYSTEM'S PERFORMANCE.
  - A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS, IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.
  - POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
  - THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.
  - A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.



Ordering Information		EXAMPLE: DSX2 LED P7 40K T3M MVOLT SPA NPLAIR2 PIRHN DDXB	
Series	LEDs	Color temperature	Distribution
DSX2 LED			
Forward optics	30K 3000 K	T15 Type I Short	T595 Type V Very Short 1
P1	951	40K 4000 K	(Midwidth) T55 Type V Short 1
P2	96	50K 5000 K	T35 Type I Short
P3	P7		T3M Type II Medium
P4	P8		T3S Type II Short
Retained optics			BLC Backlight control 1
P3P	P3P 1		UCD Ultra corner cast 1
P3P	P3P 1		T4M Type II Medium
P3P	P3P 1		T3TM Forward Throw Medium
			480*

Foot of options	Other options	Finish options
<b>Shipped installed</b> M2M2 High-impact polycarbonate 2 available 11 PIRHN Network, 8x lead metal corner bracket 11 PER NEMA rated lock receptacle only (see catalog) 11 PER Low-voltage receptacle only (see catalog) 11 PER Splice wire receptacle only (see catalog) 11 DMG 0-10V dimming control out back of housing for optional control (see catalog) 11 DS Dual switching 11	P7H 0-10V dimming control sensor 11-30' mounting height, ambient sensor enable at 16' PIRH7C High-flow, motor-actuated sensor 11-30' mounting height, ambient sensor enable at 16' FAO Field Adjustable Output 11	<b>Shipped installed</b> 85 Round (see table) 11 SF Single Size (120, 202, 3470) 11 DF Double Size (208, 240, 480) 11 180 Left mount option 11 800 Right mount option 11 9A 30°C ambient operation 11 9BA Top mounted for Compliance <b>Shipped separately</b> 85 Bolt spacers 11 85 Round glass shield 11

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**FEATURES & SPECIFICATIONS**

**INTENDED USE** — These specifications are for USA standards only. Round Straight Steel is a general purpose high pole light pole for most mounting heights. This pole provides outdoor use with effective protection for mounting area lights and footlights.

**CONSTRUCTION** — Pole Shaft: The pole shaft is 1.315" outer wall thickness and is made of welded-grade hot-rolled commercial quality metal alloy with a minimum yield of 42,000psi. Shaft size goes with a full length longitudinal high-frequency electric resistance weld. Uniformly spaced cross-section over length of shaft with no gaps. Standard shaft diameters are 1", 1.5", 4", 6", 8", 10", 12", 14", 16", 18", 20", 22", 24", 26", 28", 30", 32", 34", 36", 38", 40", 42", 44", 46", 48", 50", 52", 54", 56", 58", 60", 62", 64", 66", 68", 70", 72", 74", 76", 78", 80", 82", 84", 86", 88", 90", 92", 94", 96", 98", 100". Shaft wall thickness of .180" and .250" are available with certain tube diameters.

**Pole Top Options** include: tension top, drilled for side mount fixture, tension with drilling (includes extra hardware) and open top. Side drilled and open top poles include a removable zero-fl, back, low density polycarbonate top cap.

**Hardware** — A standard hardware kit providing protection is provided at 17' from the base end of the pole assembly on side A. Every hardware includes a cover and cover attachment hardware. 2.5" x 5" rectangular hardware is provided on pole.

**Base Cover** — A non-press 480 round plastic full base cover is provided with each pole assembly. Additional base cover options are available upon factory request. Options include fabricated two-piece stainless steel or heavy duty non-press cast aluminum full base covers. All base covers are finished to match pole.

**Anchor Base Bolts** — Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A16. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an 11.5" thread on one end. All anchor bolts are hot-dipped galvanized to minimum of 17' minimum on the threaded end. Anchor bolts are made of steel not having a minimum yield strength of 55,000 psi and a joint strength of 25,000 psi to 35,000 psi.

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

**Finish** — Four standard standard powder-coat finishes include: Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Custom finishes include Sandstone, Charcoal Grey, Teal Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to the dipped Galvalume, Fluoropolymer, Fluoropolymer, IRI, Color, Custom Colors and finished Mercury Finishes. Factory applied primer paint finish is available for customer field paint applications.

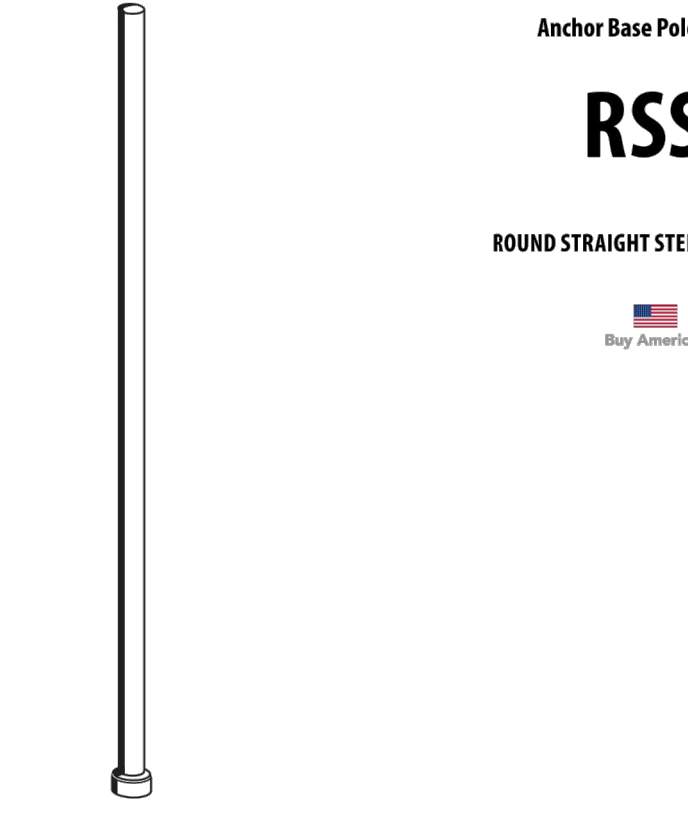
**BY AMERICAN** — Product with the flag option assembled in the USA and meets the Buy American's government procurement requirements under FAR, DFARS and DOT.

Please refer to www.lithonia.com for additional information.

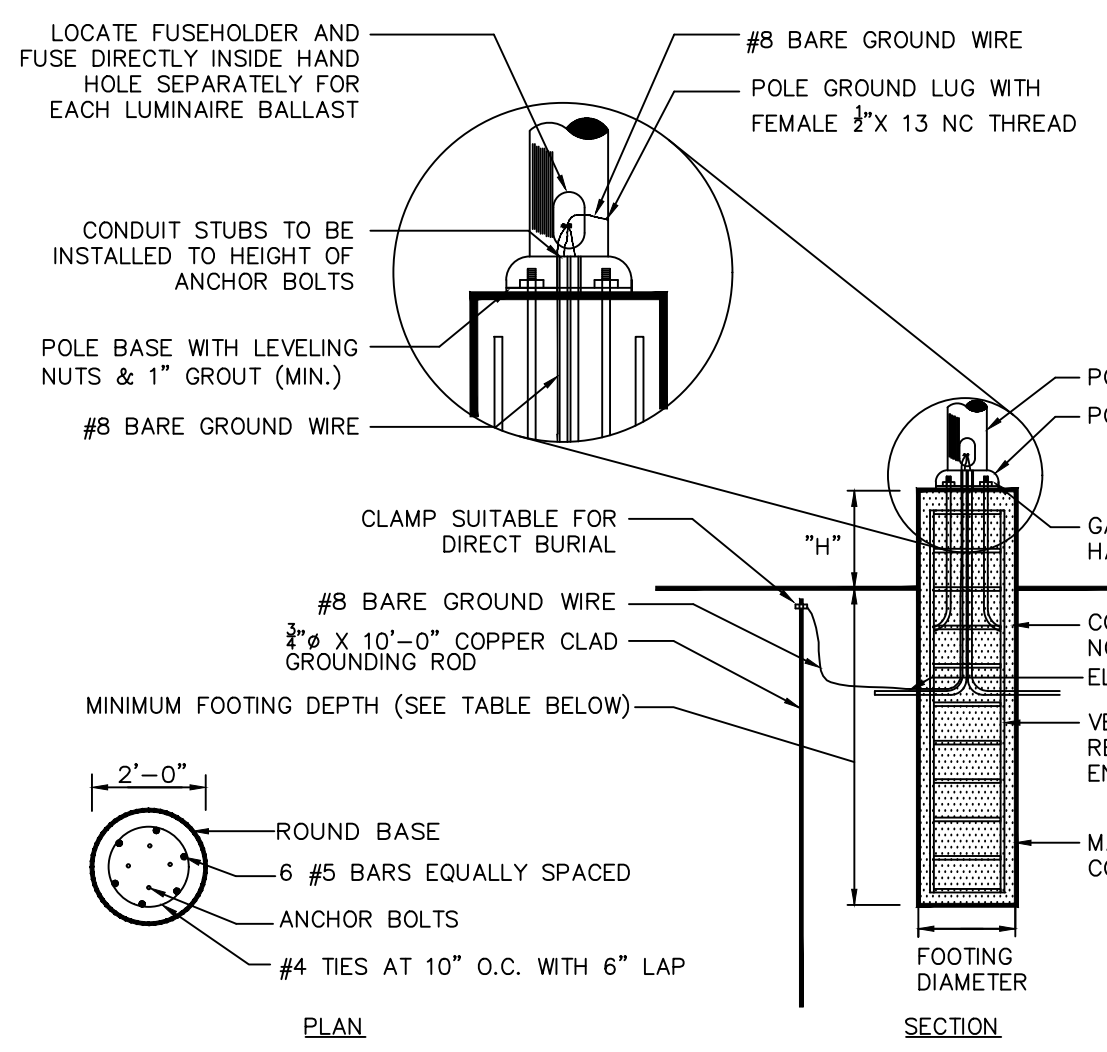
**WARRANTY** — 1 year limited warranty. Complete warranty terms located at: www.lithonia.com/support/warranty/terms-and-conditions

**NOTE:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Code Number	
Name	
Type	



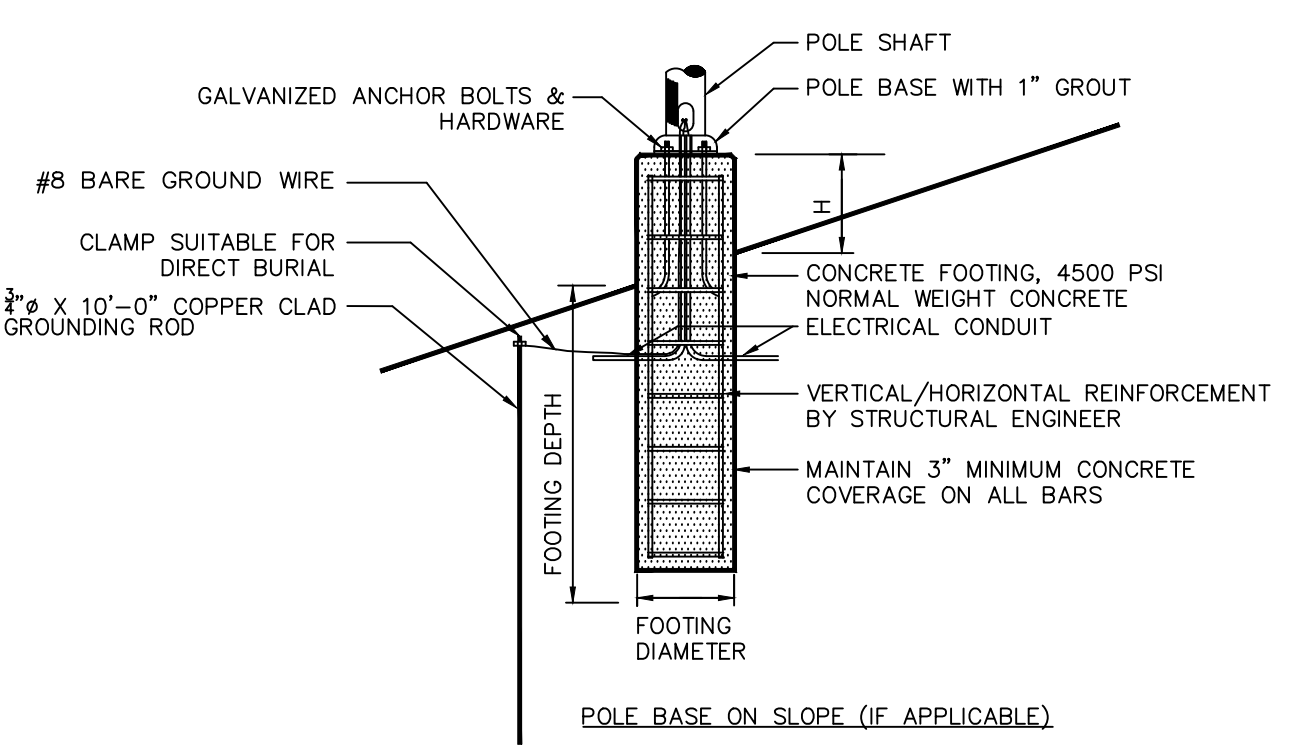
**1 LIGHT FIXTURE NTS**



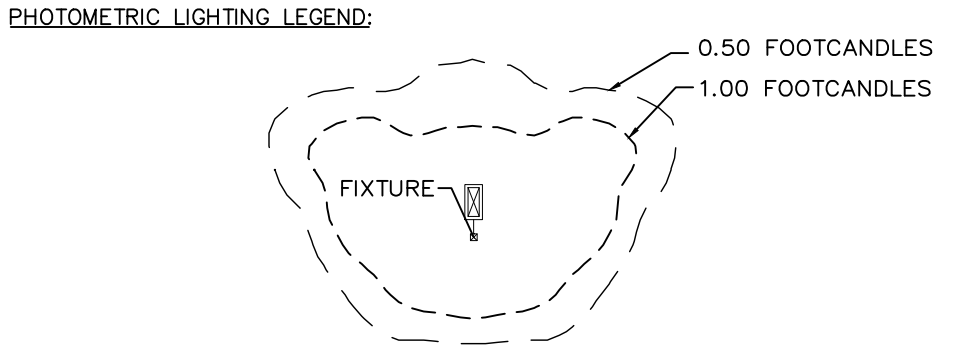
MOUNTING HEIGHT	POLE LENGTH	FOOTING DEPTH	FOOTING DIAMETER	EXPOSED HEIGHT "H"
25'	22'-0"	4'-6"	2'-0"	3'-0" EXPOSED CONCRETE BASE
25'	25'-0"	4'-6"	2'-0"	4" EXPOSED CONCRETE BASE

**3 LIGHT POLE BASE NTS**

**2 LIGHT POLE NTS**



- NOTES:**
- THE INFORMATION ILLUSTRATED IN THE LIGHT POLE FOUNDATION DETAIL HAS BEEN PROVIDED FOR GENERAL REFERENCE AND PRELIMINARY COST ESTIMATE PURPOSES. LIGHT POLE FOUNDATIONS SHOULD BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER BASED ON EXISTING SOIL CONDITIONS, LOCAL DESIGN STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
  - SHAFT CAP, ARMS, BASE FLANGE, ANCHOR BOLTS, LEVELING NUTS, CONNECTION HARDWARE, BOLT COVERS, HANDHOLE COVER, AND BOLT CIRCLE TEMPLATE SHALL BE FURNISHED BY POLE MANUFACTURER.
  - EACH STANDARD TO BE PROTECTED AGAINST LIGHTNING WITH AN INTERCONNECTED GROUND ROD. THIS ROD SHALL BE BONDED PER SECTION NUMBER 250-86, N.E.C.
  - GROUNDING DETAILS SHOWN HEREIN ARE PROVIDED BY MANUFACTURER; MEP ENGINEER TO CONFIRM ALL GROUNDING AND ELECTRICAL DESIGN.
  - CONCRETE FOR FOOTING SHALL BE 4500 PSI.
  - CONTRACTOR TO ENSURE CONCRETE POLE BASES ARE POURED / PLACED ABSOLUTELY VERTICAL & LEVEL.
  - IF POLE BASE IS CAST-IN-PLACE, POLE BASE SHALL BE ONE CONTINUOUS POUR. EXPOSED PORTION OF BASE SHALL BE HAND-RUBBED SMOOTH.
  - CONTRACTOR TO COMPACT SUBGRADE AROUND POLE BASE PER EARTHWORK SPECIFICATIONS / GEOTECH REPORT.



NOTE: THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE AND DOES NOT REPRESENT LIGHT COMING FROM OTHER SOURCES.

2/15/2022	Revised per Township Comments	2
12/3/2021	Completeness Revisions 1	1
Date	Description	No.

**REVISIONS**

SIGNATURE: [Signature] DATE SIGNED: [Date]  
 LANDSCAPE ARCHITECT NJ Lic. No. 21AS0045700

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 NJ CERTIFICATE OF AUTHORIZATION No. 2462A7986409

Project  
**BRIDGE POINT 8 INDUSTRIAL PARK**  
 WEST WINDSOR TOWNSHIP  
 MERCER COUNTY NEW JERSEY

**LIGHTING NOTES AND DETAILS**

Project No.	Drawing No.
130172801	LL501
Date	
12/03/2021	
Drawn By	
Checked By	
KK	
AP/IOS	