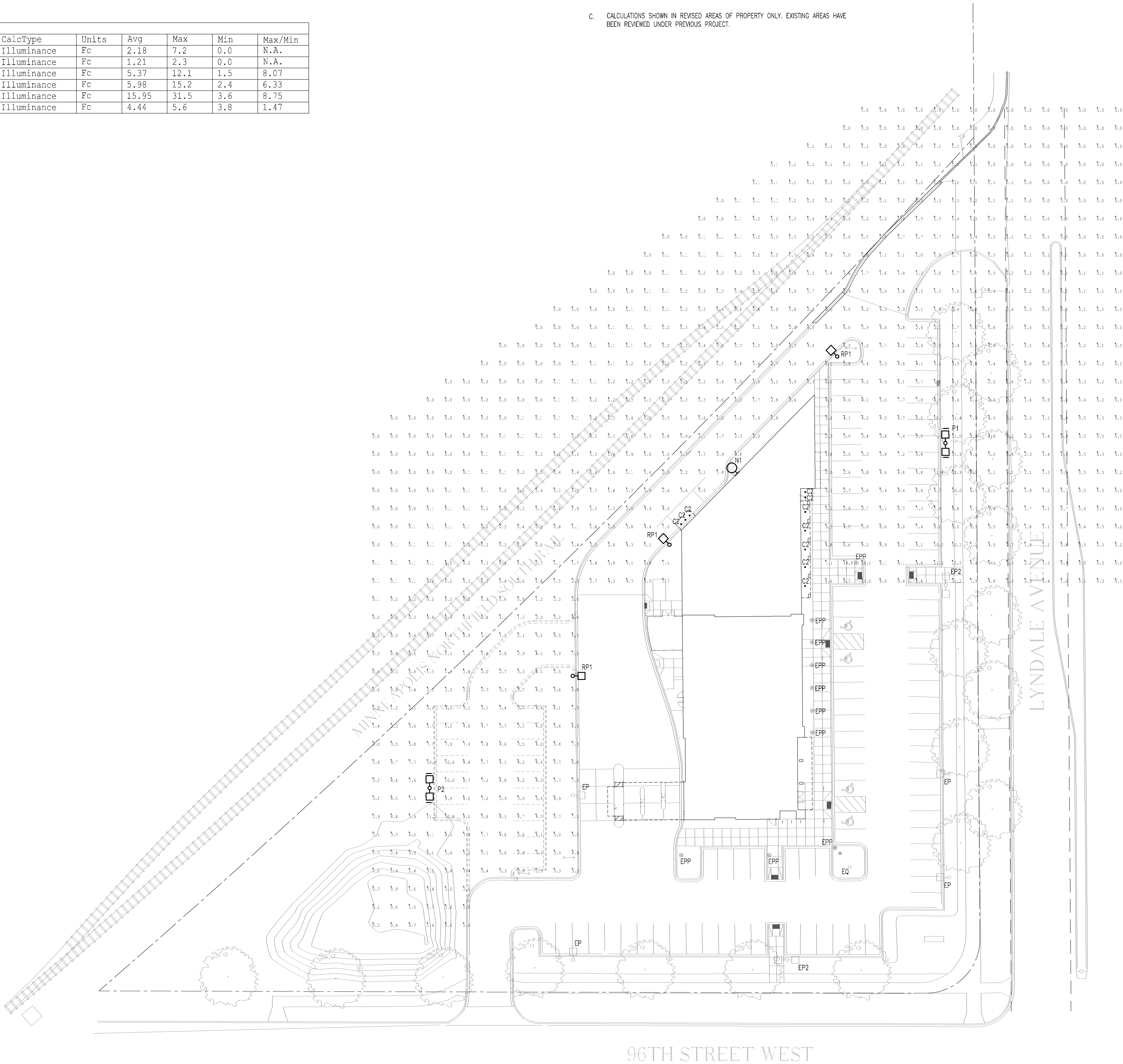


GENERAL NOTES

- A. REFER TO DETAIL 4/EQ.2B FOR LIGHT POLE BASE DETAIL.
- B. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL AND/OR TIMECLOCK CONTROL STRATEGY EMPLOYED SHALL COMPLY WITH MN ENERGY CODE AND CITY OF BLOOMINGTON CITY CODE.
- C. CALCULATIONS SHOWN IN REVISED AREAS OF PROPERTY ONLY. EXISTING AREAS HAVE BEEN REVIEWED UNDER PREVIOUS PROJECT.

INITIAL LLF AT 1.0. SEE LIGHT LEVELS BELOW

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Min
EAST PROPERTY LINE	Illuminance	Fc	2.18	7.2	0.0	N.A.
NORTHWEST PROPERTY LINE	Illuminance	Fc	1.21	2.3	0.0	N.A.
PARKING AREA	Illuminance	Fc	5.37	12.1	1.5	8.07
PEDESTRIAN ACCESS	Illuminance	Fc	5.98	15.2	2.4	6.33
SIDE ENTRY "A"	Illuminance	Fc	15.95	31.5	3.6	8.75
SIDE ENTRY "B"	Illuminance	Fc	4.44	5.6	3.8	1.47



1 SITE PLAN - PHOTOMETRIC - INITIAL

The logo for HTG architects, featuring the letters 'HTG' in a large, bold, sans-serif font, with the word 'architects' in a smaller, lowercase, sans-serif font below it, all enclosed within a thick, black, curved line that sweeps from the bottom left to the bottom right.

www.htg-architects.com
Minneapolis Tampa Bismarck

9300 Hennepin Town Road
Minneapolis, MN 55347
Tel: 952.278.8880
Fax: 952.278.8822

PROJECT

RBCU

BUILDING ADDITION

LYNDALE OFFICE
BLOOMINGTON, MINNESOTA

[illegible]

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA


Matthew W. Fults

40887 January 31, 2019
REG. NO. DATE



emanuelson-podas
consulting engineers

7705 Bush Lake Road
Edina, MN 55439
ph: 952-930-0050
fax: 952-930-0777
www.epinc.com

SITE PLAN -
PHOTOMETRIC - INITIAL

DRAWN BY: MAB CHECKED BY: MWF

E0.2



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Minneapolis Tampa Bismarck

9300 Hennepin Town Road
Minneapolis, MN 55347
Tel: 952.278.8880
Fax: 952.278.8822

PROJECT

RBCU

BUILDING ADDITION

LYNDALE OFFICE
BLOOMINGTON, MINNESOTA

ISSUED SET		January 31, 2019
REVISIONS		

DATE	NO.	CITY COMMENTS
03/19/19		
05/10/19		

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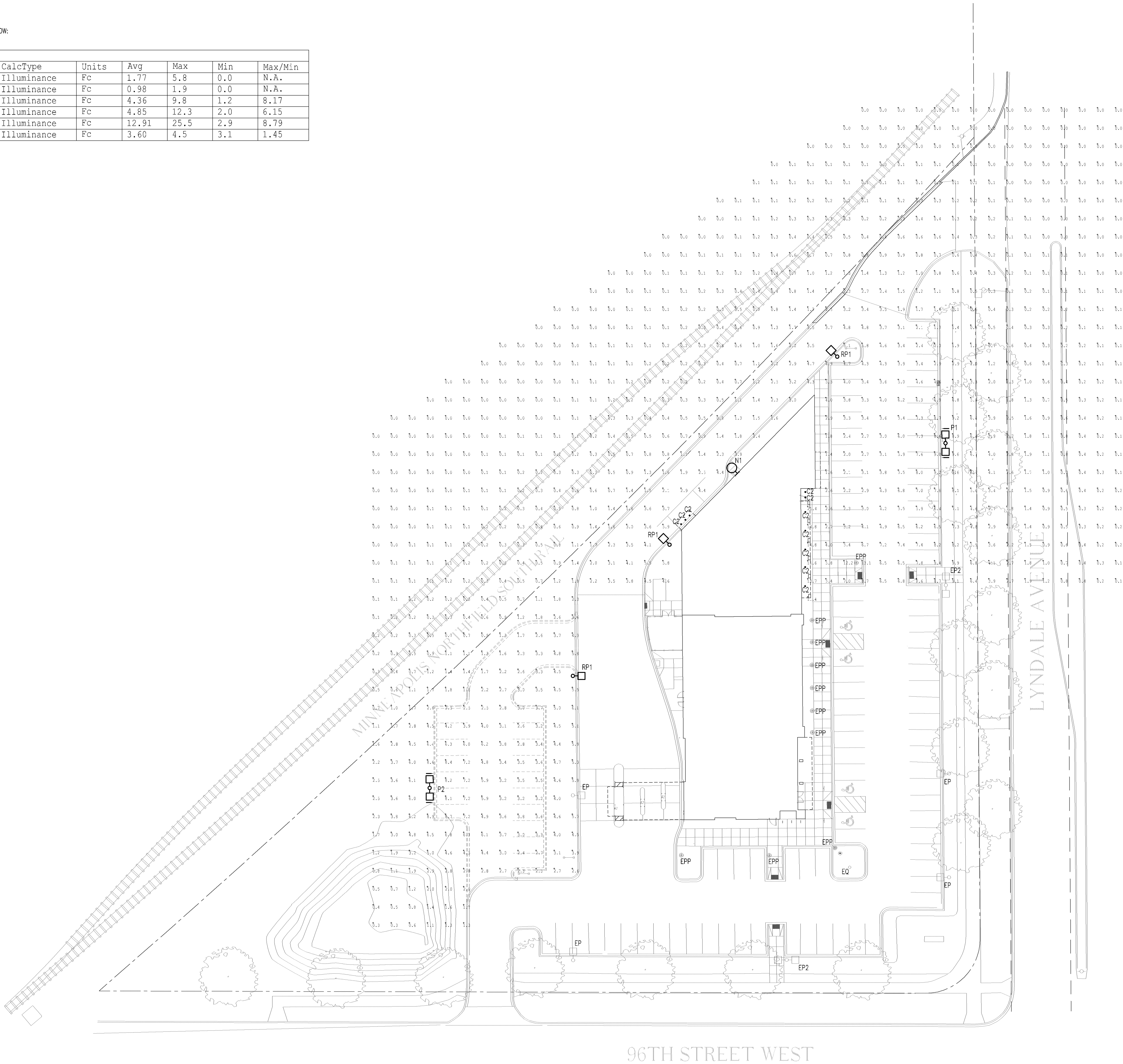
SITE PLAN -
PHOTOMETRIC - MAINTAINED

DRAWN BY: MAB CHECKED BY: MWF

E0.2A

MAINTAINED LFF AT 0.81. SEE LIGHT LEVELS BELOW:

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Min
EAST PROPERTY LINE	Illuminance	Fc	1.77	5.8	0.0	N.A.
NORTHWEST PROPERTY LINE	Illuminance	Fc	0.98	1.9	0.0	N.A.
PARKING AREA	Illuminance	Fc	4.36	9.8	1.2	8.17
PEDESTRIAN ACCESS	Illuminance	Fc	4.85	12.3	2.0	6.15
SIDE ENTRY "A"	Illuminance	Fc	12.91	25.5	2.9	8.79
SIDE ENTRY "B"	Illuminance	Fc	3.60	4.5	3.1	1.45



1 SITE PLAN - PHOTOMETRIC - MAINTAINED
SCALE: 1" = 30'-0"



GENERAL NOTES:
A. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE UNITS MEETING FIXTURE SCHEDULE DESCRIPTION AND SPECIFICATION REQUIREMENTS. THE FIXTURE CATALOG NUMBER MAY NOT BE COMPLETE; USE ONLY AS A GUIDELINE.

Lights circled in red shall remain on for security purposes. All other lights (other than architectural lighting) shall be extinguished 1 hour after close of business and not illuminated prior to 1 hour before the start of business.

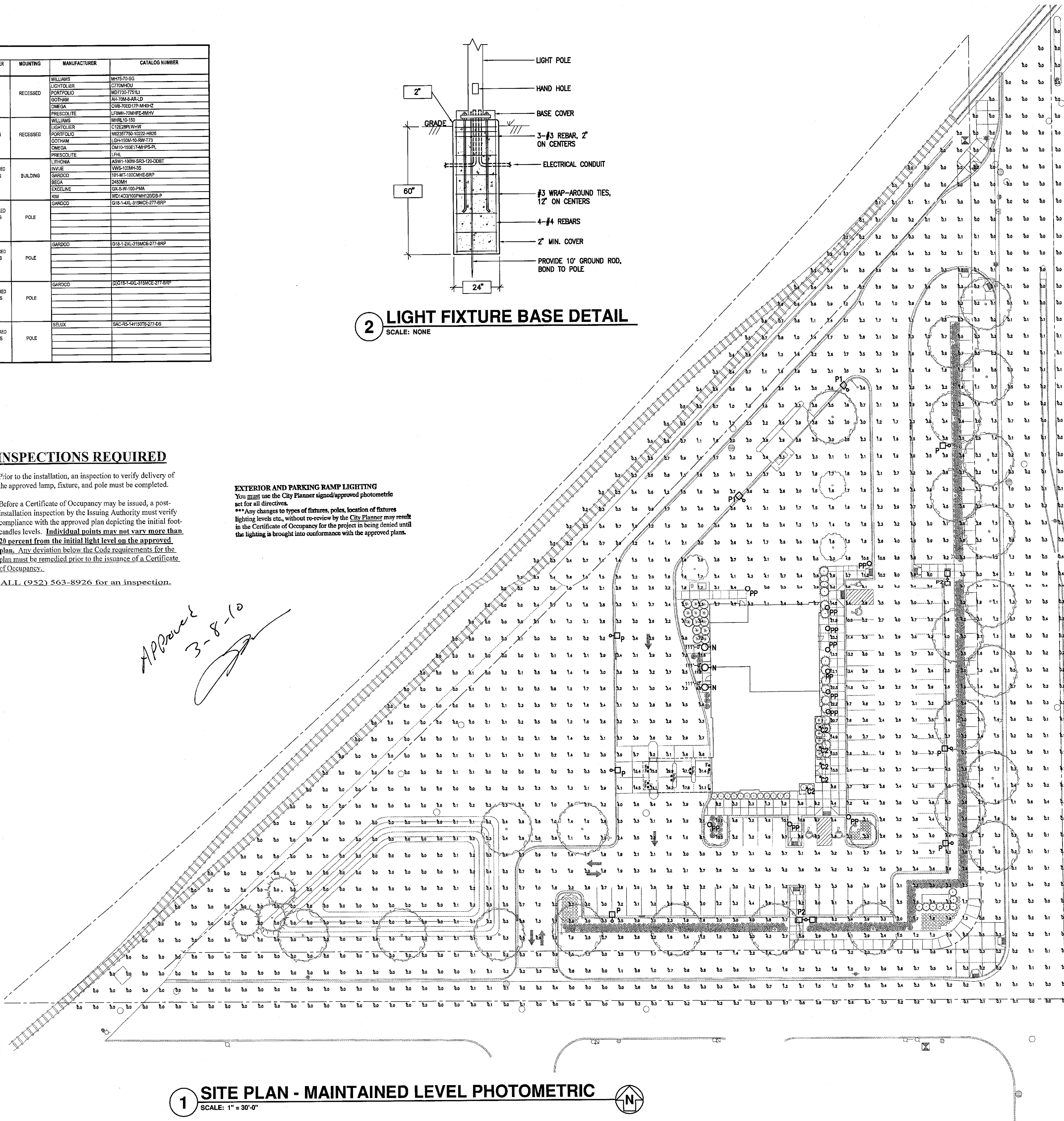
Luminaire Schedule				
Qty	Label	Arrangement	Lumens	LLF
5	G2	SINGLE	5500	0.745
11	F	SINGLE	12900	0.745
3	N	SINGLE	8500	0.745
6	P	SINGLE	36200	0.745
2	P1	SINGLE	36200	0.745
2	P2	TWIN	36200	0.745
11	PP	SINGLE	14000	0.745

1 SITE PLAN - MAINTAINED LEVEL PHOTOMETRIC
SCALE: 1" = 30'-0"



- 1) Prior to the installation, an inspection to verify delivery of the approved lamp, fixture, and pole must be completed.
- 2) Before a Certificate of Occupancy may be issued, a post-installation inspection by the Issuing Authority must verify compliance with the approved plan depicting the initial foot-candle levels. Individual points may not vary more than 20 percent from the initial light level on the approved plan. Any deviation below the Code requirements for the plan must be remedied prior to the issuance of a Certificate of Occupancy.

EXTERIOR AND PARKING RAMP LIGHTING
 You must use the City Planner signed/approved photometric set for all directives.
 ***Any changes to types of fixtures, poles, location of fixtures lighting levels etc., without re-review by the City Planner may result in the Certificate of Occupancy for the project in being denied until the lighting is brought into conformance with the approved plans.



www.htg-architects.com
Minneapolis Phoenix Tampa

9300 Hennepin Town Road
Minneapolis, MN 55347
Tel: 952.278.8880
Fax: 952.278.8822

***RICHFIELD/
BLOOMINGTON
CREDIT UNION***

**BLOOMINGTON OFFICE
BLOOMINGTON, MINNESOTA**

ISSUED SET December 15, 2009

REVISIONS

	DATE	NO.
A	3-1-10	CITY COMMENTS
B		
C		
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V		
W		
X		
Y		
Z		

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Matthew W. Fults
Matthew W. Fults

40887	12/15/0
REG. NO.	DATE



emanuelson-podany
consulting engineers

10401 Bren Road East
Minnetonka, MN 55344
ph: 952-930-0050
fax: 952-930-0777
www.epinc.net

SITE PLAN -
MAINTAINED LEVEL PHOTOMETRIC

DRAWN BY: MAB CHECKED BY: MWF

E0.2

3107.0003
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PROJECT

RBCU

BUILDING ADDITION

LYNDALE OFFICE
BLOOMINGTON, MINNESOTA

ISSUED SET	January 31, 2019
REVISIONS	

DATE	NO.	
03/19/19		CITY COMMENTS
05/10/19		CITY COMMENTS

[illegible]

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Matthew W. Fults

January 31, 2019

REG. NO. _____ DATE _____

emanuelson-podas
consulting engineers

7705 Bush Lake Road
Edina, MN 55439
ph: 952-930-0050
fax: 952-930-0777
www.epinc.com

SITE PLAN - DETAILS

DRAWN BY: MAB

CHECKED BY: MW

E0.2B

3107.003A
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LIGHT FIXTURE SCHEDULE								
FXLT. TYPE	DESCRIPTION	VOLTAGE	LAMPS		VA/ FXLT.	MANUFACTURER	CATALOG NUMBER	NOTES
			TYPE	QTY./ FXLT.				
C2	0" LED DOWNLIGHT, DIFFUSE REFLECTOR. 2000 NOMINAL DELIVERED LUMENS. INDIVIDUAL DIODES SHALL NOT BE VISIBLE. DAMP LOCATION RATED.	277	LED 3500K	1	22	PRECISOLITE GOTHAM ATLANTIC INTENSE	L78SL-RUS-22L-MTC-LPSL6 SW-35-22-640-M2-L3 LED6-3LM20-HZ SS6G4DR-L3-IC630-HZ-SF	
N1	LED WALL PACK, TYPE II DISTRIBUTION, 3000 NOMINAL DELIVERED LUMENS. SILVER IN COLOR.	277	LED 3000K	1	16	INALE NO EQUALS	WVM-E01-LED-SL3-DP BSPVFL24-2000-30LEDMD-HAZ	
P1	EXISTING TO REMAIN LIGHT POLE WITH NEW HEADS. DUAL HEAD, TYPE IV DISTRIBUTION LED POLE MOUNTED FIXTURE, SEGMENTED OPTICS, ROTATE OPTICS AS SHOWN. 30" SQUARE ALUMINUM POLE W/ VIBRATION DAMPERS. SILVER IN COLOR. NEW HEADS AND POLE SHALL HAVE MATCHING FINISH.	277	315W MASTERCOLOR ELITE (MCE) 3K 36200 LUMENS	2	682	GARCO NO EQUALS	(2) G18-1-4XL-315MCE-277-NP	
P2	DUAL HEAD, TYPE IV DISTRIBUTION POLE MOUNTED FIXTURE, SEGMENTED OPTICS, ROTATE OPTICS AS SHOWN. 30" SQUARE ALUMINUM POLE W/ VIBRATION DAMPERS. SILVER IN COLOR. HEAD AND POLE SHALL HAVE MATCHING FINISH. PROVIDE CONCRETE BASE PER DETAIL. PROVIDE BASE COVER.	277	315W MASTERCOLOR ELITE (MCE) 3K 36200 LUMENS	2	682	GARCO NO EQUALS	(2)G18-1-4XL-315MCE-277-NP	
EP	EXISTING TO REMAIN LIGHT POLE. TYPE IV DISTRIBUTION POLE MOUNTED FIXTURE, SEGMENTED OPTICS. 30" SQUARE ALUMINUM POLE. SILVER IN COLOR.	277	315W MASTERCOLOR ELITE (MCE) 3K 36200 LUMENS	1	341	GARCO	G18-1-4XL-315MCE-277-NP W/ HARPO SSSA30FE-4-R-10	
EP1	EXISTING TO REMAIN LIGHT POLE. TYPE II DISTRIBUTION POLE MOUNTED FIXTURE, SEGMENTED OPTICS. 30" SQUARE ALUMINUM POLE. SILVER IN COLOR.	277	315W MASTERCOLOR ELITE (MCE) 3K 36200 LUMENS	1	341	GARCO	G18-1-2XL-315MCE-277-NP W/ HARPO SSSA30FE-4-R-10	
EP2	EXISTING TO REMAIN LIGHT POLE. DUAL HEAD TYPE IV DISTRIBUTION POLE MOUNTED FIXTURE, SEGMENTED OPTICS. 30" SQUARE ALUMINUM POLE. SILVER IN COLOR.	277	315W MASTERCOLOR ELITE (MCE) 3K 36200 LUMENS	2	682	GARCO	(2) G18-1-4XL-315MCE-277-NP W/ HARPO SSSA30FE-4-R-10	
EPP	EXISTING TO REMAIN PEDESTAL SCALE LIGHT POLE. TYPE V DISTRIBUTION POLE MOUNTED FIXTURE, SEGMENTED OPTICS. 12" ROUND ALUMINUM POLE. SILVER IN COLOR.	277	150W T6 G12 CESAHC METAL-HALIDE 3K 14000 LUMENS	1	168	SELUX	SAC-R5-1-H150T6-830-SV-277-DS W/AS5-12-SV-BCL POLE	
RP1	EXISTING TO BE RELOCATED LIGHT POLE. PROVIDE NEW CONCRETE BASE. TYPE II DISTRIBUTION POLE MOUNTED FIXTURE, SEGMENTED OPTICS. 30" SQUARE ALUMINUM POLE. SILVER IN COLOR.	277	315W MASTERCOLOR ELITE (MCE) 3K 36200 LUMENS	1	341	GARCO	G18-1-2XL-315MCE-277-NP W/ HARPO SSSA30FE-4-R-10	
GENERAL NOTES:								
A. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE UNITS MEETING FIXTURE SCHEDULE DESCRIPTION AND SPECIFICATION REQUIREMENTS. THE FIXTURE CATALOG NUMBER MAY NOT BE COMPLETE, USE ONLY AS A GUIDELINE.								
B. ENGINEER RESERVES THE RIGHT TO REQUEST A WORKING SAMPLE OF ANY FIXTURE PRIOR TO SHOP DRAWING RELEASE.								
C. SCHEDULE IS FOR CITY REVIEW ONLY, SUBMIT SHOPS BASED ON FULL LIGHT FIXTURE SCHEDULE.								

4 LIGHT FIXTURE POLE BASE DETAIL

2 **FIXTURE TYPE "C2"**
NO SCALE

3 **FIXTURE TYPE "N1"**
NO SCALE

Job:
Topic: P1
Notes:

Featuring MasterColor Elite Electronic HID Systems

Page 1 of 3

The Philips Gardco Gullwing is an area luminaire defined by its sleek profile and rugged construction. The housing is one-piece, die cast aluminum and mounts directly to a pole or wall without the need of a separate support arm. The multifaceted arc-angle duplicating optical system features IES Types I, II, III, IV and V distributions. The door frame is single-piece die cast aluminum and retains an optically clear tempered flat glass lens. The luminaire is completely sealed and gasketed preventing intrusion from moisture, dust and insects. Gullwing luminaires are finished with a fade and abrasion resistant RGCC powdercoat. Flat glass lenses guarantees provide full cutoff performance. Six Lens luminaires provide cutoff performance.

Enter the arrow code and the appropriate box number. Please Garden! Turnover the right to release a configuration. Note all combinations and configurations are valid. Refer to notes below for exceptions and limitations. For questions or concerns, please consult the factory.

PREFIX

- 1' 18" Gullwing Luminaire

Standard arm, without RPA (Round Pole Adapter), mounts to square poles.

MOUNTING

- 1 Single Pole Mount
- 2 Two Pole Mount at 180°
- 2/390 Two Pole Mount at 90°
- 3 J-wy Pole Mount at 90°
- 3/120° J-wy Pole Mount at 120°
- 4 J-wy Pole Mount
- W Wall Mount, Recessed Box
- WS Wall Mount, Surface Conduit

DISTRIBUTION [See NOTES below]

- 1' Type I, Horizontal Lamp
- 2XL Type II, Horizontal Lamp
- 3XL Type III, Horizontal Lamp
- 4XL Type IV Horizontal Lamp
- BLC Backlight Concentrated Lamp
- AF AF Controlled Optic for Automotive Front Road Applications

WATTAGE

Pulse Start MH Magnetic Ballast	150WPH ○	150P5MH ○	150SP5MH ○	400P5MH ○
MasterColor Elite Electronic System (See Notes # 1)	210PCE-JK ○	115HCE-JK ○	210PCE-4K ○	115HCE-4K ○
Pulse Start MH Electronic Ballast (See Notes # 2)	170PSE ○	175PSE ○	250PSE ○	320PSE ○
High Pressure Sodium Magnetic Ballast	180WPS	150HWPS	400HWPS	180WPS

** 250P50 includes a 90% efficient magnet RPDH ballast, meeting the requirements of California Title 20 effective 11/1/2000. Available in 100, 300, 400, 500, 775 only.

Workspaces marked with Circle "E" meet federal energy efficiency standards applicable to 100 watt through 400 watt pulse start metal halide luminaires only.

VOLTAGE

120	240	347
108	277	480

200-277 CME, HCE and PSE optics only.

NOTES:

- 1 Not available in 48V.
- 2 Available in 210PCE, 115HCE, 250P50, 400P5MH and 400P5WH wattages only.
- 3 Requires EXETER lamp.
- 4 May be used with CME and PCE systems include and require an auxiliary transformer.
- 5 Consulted and MasterColor Elite Systems are installed with lamps.
- 6 See GARDCO Table on page 2.
- 7 "J" suffix specifies a 3000 K lamp and "4K" suffix specifies a 4000 K lamp.
- 8 Not available in 120V.

Gullwing G18 Area Luminaires

Gullwing_Cat_# 010307 Page 1 of 3

PHILIPS
 GARDCO

1 FIXTURE TYPE "P" SERIES

C2

LF6SL

6" Standard Linear Downlight

LED system in 2700K, 3000K, 3500K, 4000K, 5000K

LED

LF6SL

FEATURES

- Light Engine utilizes Philips Lumileds LED module and provides controlled color consistency feature to future
- Glass front optical control
- Shipped with pre-installed Light Commercial bar hangers. (Not with CF option. See below for optional Commercial grade bar hangers)
- Minimums 50,000 hours or 70% Lumen Depreciation over life cycle
- ENEC/IEC529 qualified
- Photometric Input per ENEC EN 124-7000 standards
- 8-in-2 cut. Suitable for wet locations and through wiring (2mm clearance for ENEC)
- Luminaires are certified by a National Recognition Testing Lab (NRTL), either in the U.S. or in Canada
- Optional SpecTruView™ offers three modes of tunable white and integrates seamlessly into a variety of control systems
- MX Distributed Intelligence™ provides options for standalone and networked interconnected systems with wired or wireless connectivity for NB system deployments

ORDERING INFORMATION

EXAMPLE: LF6SL-61-LS120L0K

LF6SL		61-FLPSL		70L	40K	8	LF6SL		
HOUSING		TRIM		OUTPUT		REFLECTOR		TGM	
LF6SL		VOLTAGE		LUMEN		FINISH OPTIONS		COLOR OPTIONS	
Standard Housing		120V/277V		120V/277V		S1 Smooth		CG Standard	
347 347V		347 347V		347 347V		S2 Satin		CG Damaged	
						S3 Specular		CG Darkened	
						S4 Gloss		CG Lightened	
						S5 Kurl Versum		WE White	
						S6 Kurl Versum		WE Lightened	
						S7 Kurl Versum		WE Darkened	
						S8 Kurl Versum		WE Reflect and	
						S9 Kurl Versum		WE Reflect and	
						S10 Kurl Versum		WE Reflect and	
						S11 Kurl Versum		WE Reflect and	
						S12 Kurl Versum		WE Reflect and	
						S13 Kurl Versum		WE Reflect and	
						S14 Kurl Versum		WE Reflect and	
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						S17 Kurl Versum		WE Reflect and	
						S18 Kurl Versum		WE Reflect and	
						S19 Kurl Versum		WE Reflect and	
						S20 Kurl Versum		WE Reflect and	
						S21 Kurl Versum		WE Reflect and	
						S22 Kurl Versum		WE Reflect and	

InVue

DESCRIPTION

The classic lines and sophisticated construction of the Vision Wall luminaire make it an ideal complement to architectural site design. Offering LED technology across the site, flood and wall mounted fixtures the Vision series provides true facility lighting in both physical form and luminaire capability for architectural site lighting applications. Unfused fused for use in wet locations.

SPECIFICATION FEATURES

Construction

HD3000S One piece die-cast aluminum construction for precise tolerance control and repeatability in manufacturing. Integral aluminum heat sink provides superior thermal heat transfer in 40°C ambient environments. **DOOR:** Die cast aluminum door maintains a nominal .125 thickness and features concealed hinge to the housing. Door frame is forged and secured to the housing via four captive stainless steel Allen head fasteners.

Options

Choice of six patented, high efficiency LED optics distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. **ACOD** Optic technology creates consistent distributions with the scalability to meet customized application requirements. **Offroad Standard** in 4000K $\leq$ 2750 CRI CRI minimum 70 CRI Optional 3000K CRI, 70 or 80 CRI.

Electrical

LED offers means to die-cast aluminum back housing for optimal heat sinking, operation efficiency, and prolonged life. Standard fixtures feature electronic universal voltage 120-277V 50-60Hz/10, 3475 60Hz or 480V split operation. **480V** is compatible for use with 480V VSE systems only. Greater than 0.8 power factor, less than 20% harmonic distortion, and is suitable for operation in 40°C to 60°C ambient environments. All fixtures are tested standard with 100%/100A common – and are UL ENEC mode surge protection. **LightBARS** feature an IP68 enclosure rating and maintenance at 60,000 hours per **ESNA** TM-21.

Mounting

Standard zinc plated attachment plate fits 1/2" x 3/8" bolts. Two threaded studs with locking nuts allow for free mounting via keyhole slots on backside of housing. Mounting plate features one-piece EPDM gasket on either side of plate to firmly seal fixture wall surface, preventing any of

Catalog

Project

Comments

Prepared by

Type

N1

Date

moisture and particulates. Optional mounting arrangements include an embedded mount bracket, or cast aluminum surface conduct adaptor, each available as accessories.

Finish

Housing is finished in five-stage super premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. The **LightBAR™** cover plates are standard white and may be specified to match finish of luminaire housing standard colors include black, bronze, gray, white, dark platinum and graphite metallic. **RAL** and custom color matches available. Consult **Outdoor Architectural Colors** brochure for a complete selection.

Warranty

Five-year warranty.

VWM
VISION WALL
MEDIUM LED

1-5 LightBARS

Solid State LED

ARCHITECTURAL WALL LUMINAIRE

DIMENSIONS

CERTIFICATION DATA

UL E-List
UL60510
UL94 V-0
UL975 / UL880 Compliant
ROHS

ENERGY DATA

Efficiency: LED, 100+
-83 Power Factor
-20% Total Harmonic Distortion
100-277V/50 & 60Hz, 3475/60Hz,
480V/60Hz
-40°C Minimum Temperature
-20°C Ambient Temperature Rating

SHIPPING DATA

Approximate Net Weight
45 lbs. (20.45 kg.)

Eaton
Power Quality Solutions

ISO

TDS1408/ET4
2013 02 13 17:14:45

4 LIGHT FIXTURE POLE BASE DETAIL

2 **FIXTURE TYPE "C2"**
NO SCALE

3 **FIXTURE TYPE "N1"**
NO SCALE