

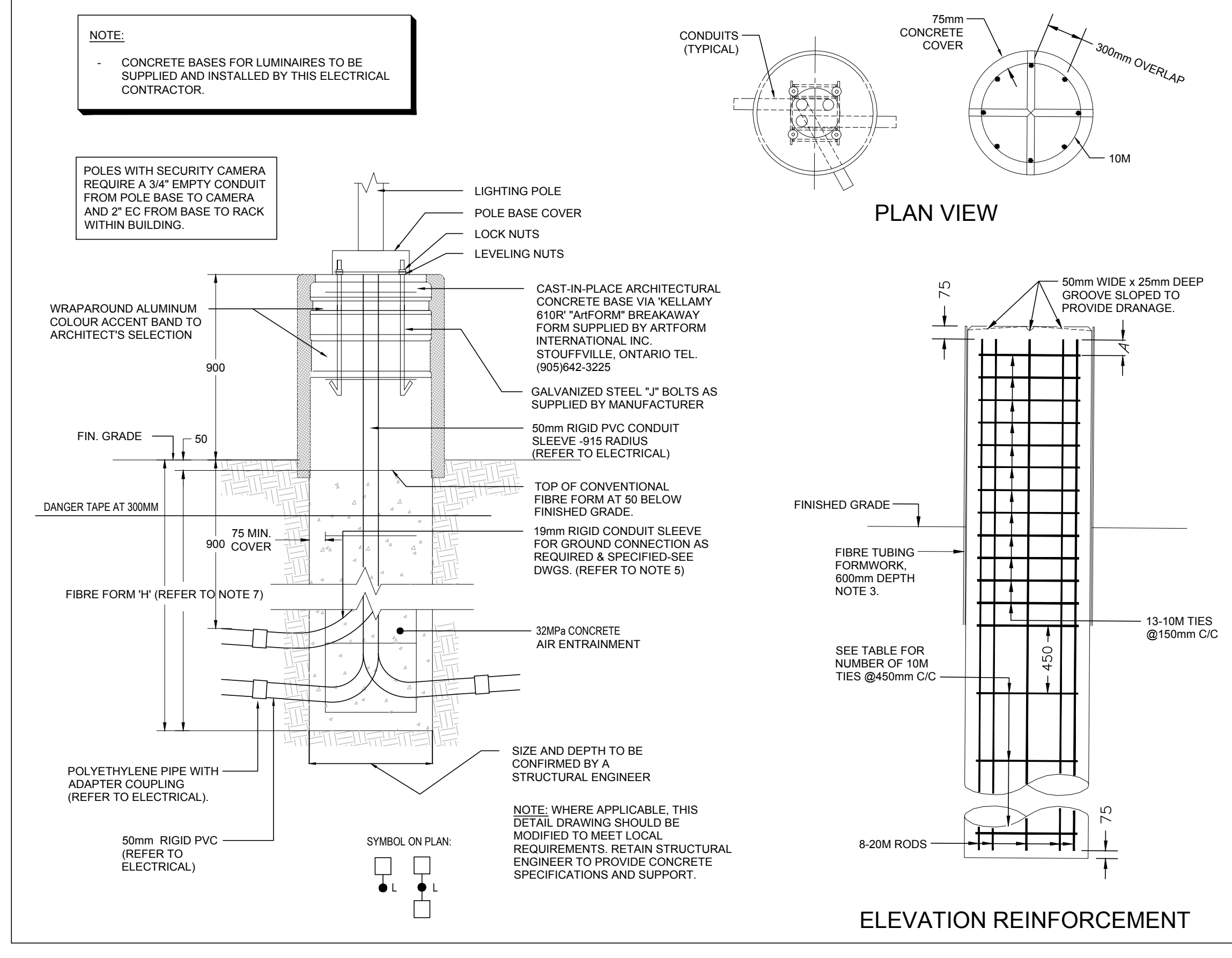
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APPROXIMATE LRT TUNNEL AND SHORING ALLOWANCE LOCATION TAKEN FROM CITY OF OTTAWA DRAWINGS CONGRESSIONAL LINE WEST LRT EXTENSION - TURNER'S PASTURE STATION TO BASELINE STATION. PLAN AND PROFILE 1 - NEW ORCHARD STATION 95+170 - 95+770 SHEET 18, DATED JUNE 2, 2016 & GENERAL ARRANGEMENT - RICHMOND ROAD TUNNEL SHEET 102, DATED FEBRUARY 10, 2016

3	ISSUED FOR SPA	2021/02/12
2	ISSUED FOR COORDINATION	2021/02/03
1	ISSUED FOR COORDINATION	2021/01/11
No.	DESCRIPTION	DATE

SEAL: NORTH ARROW:

ELECTRICAL PHOTOMETRIC SITE PLAN 1
SCALE: 1:250 (ESP)



TYPICAL CONCRETE BASE FOR LUMINAIRE N.T.S.

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES.
2. CLASS OF CONCRETE SHALL BE 32MPa AIR ENTRAINMENT.
3. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONC. FOUNDATION UNLESS OTHERWISE SHOWN.
4. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES. CONTRACTOR TO PROVIDE STRUCTURAL ENGINEER APPROVAL FOR BASE DESIGN.
5. SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT.
6. FORM RELEASE AGENT HAS BEEN FACTORY APPLIED TO INSIDE SURFACE OF "W/FORM".

POLE LENGTH m	BURIAL DEPTH H m	ROD LENGTH m	A mm	NO OF 10M TIES @450mm C/C	BOLT CIRCLE DIA FOR METAL POLES		
					ALUMINUM	STEEL	SECTIONAL STEEL
5.6	2.15	2.00	100	3	N/A	N/A	449
7.0	2.15	2.00	100	3	N/A	N/A	449
7.0	2.15	2.00	100	3	406	406	N/A
8.7	2.45	2.30	250	3	N/A	N/A	449
9.0	2.45	2.30	0	4	406	406	N/A
10.5	2.80	2.45	100	4	406	406	449
12.0	2.75	2.60	150	4	406	406	N/A
13.8	2.90	2.75	0	5	406	406	N/A
15.1	3.05	2.90	100	5	406	406	N/A

NOTE:
1. STUDS SHALL BE FACTORY SET WITH PRE-APPLIED THREAD LOCKING COMPOUND AND SHALL REMAIN IN PLACE DURING FOOTING AND POLE INSTALLATION.
2. ASSEMBLY NUTS SHALL BE SHIPPED HAND TIGHT ONLY.
3. THE WELDS SHALL DEVELOP THE STRENGTH OF THE STRUTS.
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

STUD DIA	STUD LENGTH D	BOLT CIRC. DIA A	STUD DISTANCE E	FERRULE LENGTH E	ANCHORAGE DEPTH C
32mm (1-1/4")	230	406	287	75	250mm FOR STRUCTURES
		449	318		457
19mm (3/4")	180	190	135	38	305

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
"A"	LUMINAIRE ASSEMBLY CONSISTING OF A SINGLE (1) LED LUMINAIRE WITH A TYPE III DISTRIBUTION PATTERN, HOUSE SIDE SHELD, 347V OUTDOOR BALLAST, ON A 19" SQUARE STEEL POLE WITH BASE COVER ON CLASSICA 46R CONCRETE BASE. COLOUR OF FINISH OF POLE AND HEAD TO ARCHITECT/TOWNER SELECTION. NLS LIGHTING CAT # 1-TRC-3-T4-32L-7-30K-HV-SQL-CS-HS-18
"A1"	LUMINAIRE ASSEMBLY CONSISTING OF A DOUBLE (2) LED LUMINAIRE WITH A TYPE IV DISTRIBUTION PATTERN, 347V OUTDOOR BALLAST, ON A 19" SQUARE STEEL POLE WITH BASE COVER ON CLASSICA 46R CONCRETE BASE. COLOUR OF FINISH OF POLE AND HEAD TO ARCHITECT/TOWNER SELECTION. NLS LIGHTING CAT # 2-TRC-3-T4-32L-7-30K-HV-D-180-CS-18
"A2"	LUMINAIRE ASSEMBLY CONSISTING OF A SINGLE (1) LED LUMINAIRE WITH A TYPE IV DISTRIBUTION PATTERN, 347V OUTDOOR BALLAST, ON A 19" SQUARE STEEL POLE WITH BASE COVER ON CLASSICA 46R CONCRETE BASE. COLOUR OF FINISH OF POLE AND HEAD TO ARCHITECT/TOWNER SELECTION. NLS LIGHTING CAT # 1-TRC-3-T4-16L-7-30K-HV-SQL-CS-18
"A3"	LUMINAIRE ASSEMBLY CONSISTING OF A SINGLE (1) LED LUMINAIRE WITH A TYPE IV DISTRIBUTION PATTERN, HOUSE SIDE SHELD, 347V OUTDOOR BALLAST, ON A 19" SQUARE STEEL POLE WITH BASE COVER ON CLASSICA 46R CONCRETE BASE. COLOUR OF FINISH OF POLE AND HEAD TO ARCHITECT/TOWNER SELECTION. NLS LIGHTING CAT # 1-TRC-3-T4-32L-7-30K-HV-SQL-CS-HS-18
"B"	LUMINAIRE BOLLARD ASSEMBLY CONSISTING OF A SINGLE (1) LED LUMINAIRE WITH A TYPE III DISTRIBUTION PATTERN, 120V OUTDOOR BALLAST, ON A 4" SQUARE STEEL POLE WITH BASE COVER ON CLASSICA 26R CONCRETE BASE. COLOUR OF FINISH OF BOLLARD TO ARCHITECT/TOWNER SELECTION. NLS LIGHTING CAT # 1-TBL-42-T3-16L-63-30K-UNV-AB-CS
"S"	4" ROUND SOFFIT LIGHT SUITABLE FOR OUTDOOR USE CW 120V BALLAST AND WET LOCATION TRIM. REFLECTOR FINISH TO ARCHITECTS SELECTION. H.E. WILLIAMS 40R-TL-15B30-DM-120-UV-OF-WH-WET-CC
"W"	WALL MOUNTED 18" HIGH LUMINAIRE CONSISTING OF A SINGLE (1) LED LUMINAIRE WITH A 19W LED LAMP, 120V OUTDOOR USE BALLAST, COLOUR OF FINISH OF FIXTURE TO ARCHITECTS SELECTION. LAMP SHALL BE SUPPLIED WITH THE FIXTURE AND SUITABLE FOR OUTDOOR USE. SOLERA CORP LIGHTING CAT # D9W-70-19W-3K-UNV-WH-DAL-F-WL-CC

CLIENT:

h HAMMERSCHLAG & JOFFE INC.
43 Leslie Road Toronto, Ontario Canada M3B 2T8
T (416) 444-5283
F (416) 444-1483

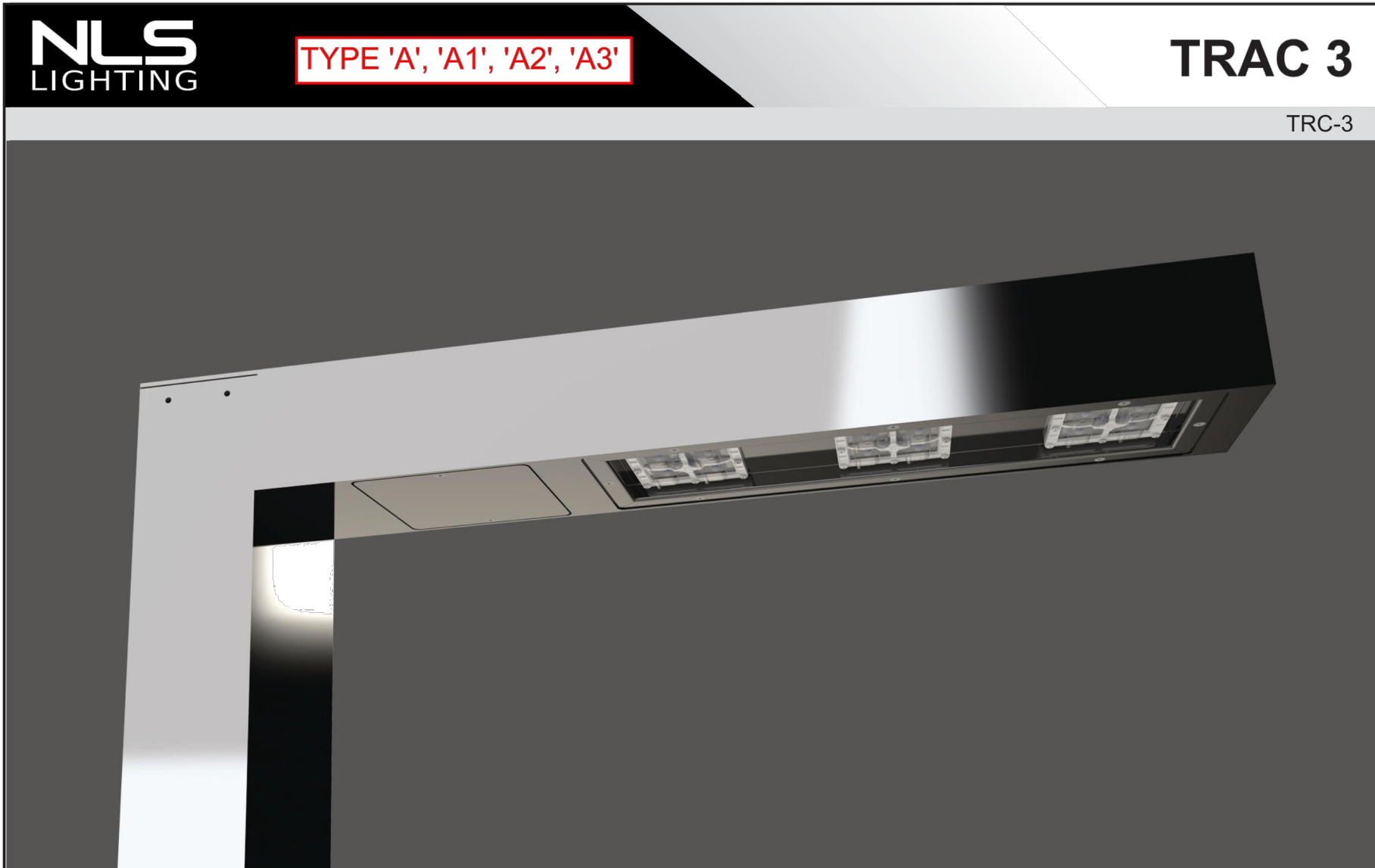
PROJECT TITLE: **21 HUNTMAR DRIVE**

SHEET TITLE: **ELECTRICAL PHOTOMETRIC SITE PLAN**

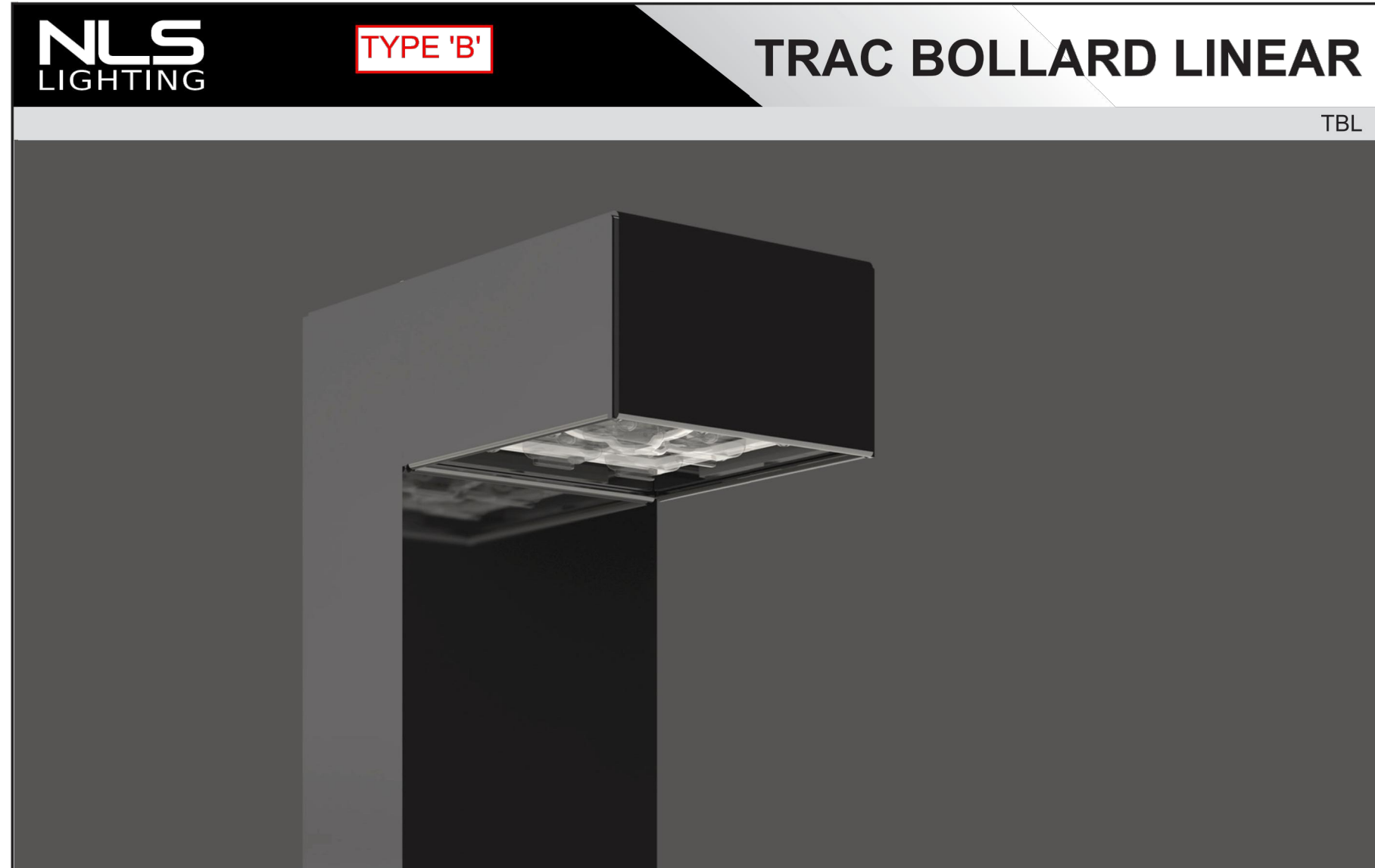
DRAWN: DN
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SCALE: 1:250
SHEET No. **ESP1**

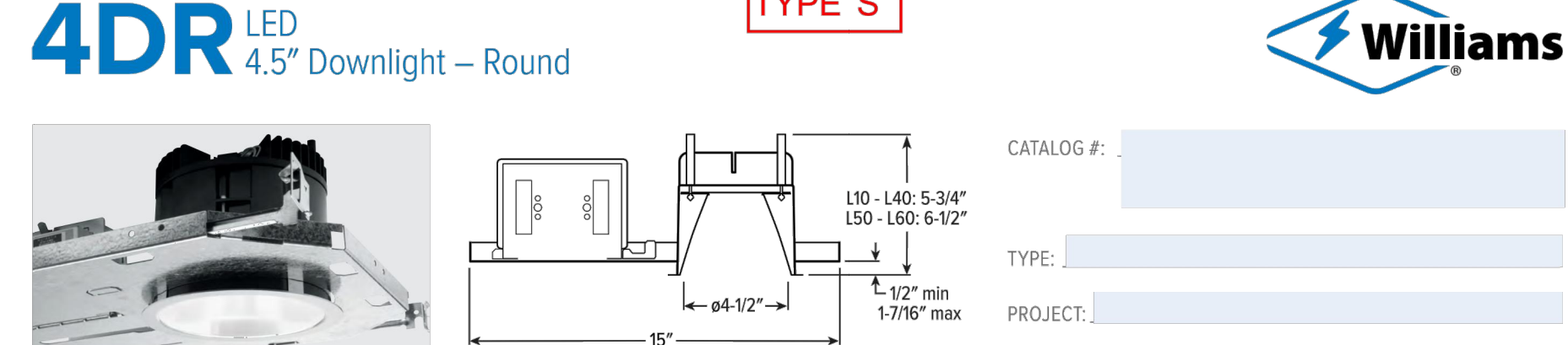
PROJECT No. 20-000-171



- Form**
- 5 Architectural Sizes Available for any Project Scale
 - 2 Architectural Wall Sconces
 - 2 Architectural Bollards
 - 1 Architectural Pendant/Ceiling Mount
 - Elegant Rectilinear Extruded Aluminum Housing
 - Corrosion Resistant Stainless Steel External Hardware
 - Sleek, low profile housing
 - Spec grade performance
 - Engineered for optimum thermal management
 - Anchor Base Plate for easy installation
 - 8 Architectural finishes standard, RAL colors available
- Function**
- Micro Optics IES Distributions T2, T3, T4, T5
 - Lumileds Luxeon MX LEDs
 - Philips Advance 0-10V Dimming Drivers THD @ Max Load < 15% Power factor @ Max Load < 0.95
 - 3000, 4000, or 5000 Kelvin
 - 16L TO 64L LED Configuration
 - 18-205 Watts (Single Head Wattage)
 - <CRI 70
 - Extruded Aluminum Heat Sink
 - Driver Separate from Light Engine for Superior Thermal Management
 - 5 mils Powder Coat
- Reliability**
- 30 Year Lighting Solution
 - L70 483,000 Hours
 - L90 160,000 Hours
 - Silicone Micro Optics
 - 5 Year Standard Warranty
 - IP 65 Rated Fixture
 - IP67 Optics
 - UL Listed
 - Reduces energy consumption and costs up to 65%
- Design Flexibility**
- Mid Pole Fixture



- Form**
- 2 Architectural Bollard Styles T2, T3, T4
 - Elegant Rectilinear Extruded Aluminum Housing
 - Corrosion Resistant Stainless Steel External Hardware
 - Sleek, low profile housing
 - Spec grade performance
 - Engineered for optimum thermal management
 - Anchor Base Plate for easy installation
 - 8 Architectural finishes standard, RAL colors available
- Function**
- Micro Optics IES Distributions T2, T3, T4
 - Philips Advance 0-10V Dimming Drivers THD @ Max Load < 15% Power factor @ Max Load < 0.95
 - 3000, 4000, or 5000 Kelvin
 - 16L TO 64L LED Configuration
 - 18-205 Watts (Single Head Wattage)
 - <CRI 70
 - Extruded Aluminum Heat Sink
 - Driver Separate from Light Engine for Superior Thermal Management
 - 5 mils Powder Coat
 - Available with dimming control motion sensor
- Reliability**
- 30 Year Lighting Solution
 - L70 483,000 Hours
 - L90 160,000 Hours
 - Silicone Micro Optics
 - 5 Year Standard Warranty
 - IP 65 Rated Fixture
 - IP67 Optics
 - UL Listed
 - Reduces energy consumption and costs up to 65%



ORDERING EXAMPLE: 4DR - TL - L20/B35 - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1 MOUNT

HOUSING

SERIES	LUMENS ⁽¹⁾	CRI	CCT	OPTIONS	CONTROL ⁽²⁾	VOLTAGE
4DR - TL	L10 1,000lm	80	27 2700K	SCA...	Dimming driver, 0-10V	UNV 120-277V
TrimLock	L15 1,500lm	90	50 3000K	ATH	% Dimming driver, 0-10V	347 347V ⁽³⁾
	L20 2,000lm		35 3500K	F		
	L30 3,000lm		40 4000K	EM/7W		
	L40 4,000lm		50 5000K	EM/10W		
	L50 5,000lm			EM/10W/TS		
	L60 6,000lm			CP		

TRIM⁽¹⁾⁽²⁾

TRIM TYPE	DISTRIBUTION ⁽¹⁾⁽²⁾	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange (F1)
L Flush lens	M Medium	RF 3/4" recessed flange	CS Clear semi-specular anodize	IP IP65 rated trim (T1)
R Regressed lens	N Narrow		SG Satin-glow anodize	AD AD Diffuse acrylic lens (T2)
A Angled lens (M1)			GD Gold anodize	PD Diffuse IP67 polycarbonate lens (T3)
S Non-conductive flush lens for shower applications ⁽¹⁾			CG Champagne gold anodize	TD Diffuse polycarbonate lens media at top of diffuser (T4)
			PW Powder anodize	WET/CC Wet location, covered ceiling listed (F1)
			SPC Clear specular anodize	AM Anti-microbial (F1)
			RG Rose gold anodize	
			WH White texture powder coat	
			BL Black texture powder coat	
			MB Black texture splay with white flange (T2)	

MOUNTING

MOUNTING TYPE⁽¹⁾⁽²⁾

N Open pan for new construction
 T T-rated enclosure for new construction (M1)
 R Remodel kit (M1)

MOUNTING HARDWARE⁽¹⁾⁽²⁾

F1 Integral 2-position fixed pan bracket, universal bar hanger included (F1)
 BAK Adjustable butterfly pan bracket, bar hanger not included (F1)
 CAI Adjustable caterpillar pan bracket, universal bar hanger included (F1)

NOTES

- Lumen output based on O trim type, W distribution and CS finish, 3500K (B35). Actual lumens may vary +/- 5%, see page 2 for FUTURE PERFORMANCE DATA.
- See page 4 for ADDITIONAL COLOR OPTIONS.
- Available with WW Distribution only.
- W Distribution, OF Flange Type, WH Reflector Finish only. Standard with AD Diffuse acrylic lens. IP and WET/CC options standard.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- O and A Trim Types only.
- N and R Mounting Types only.
- N and R Mounting Types only.
- Not available with WET/CC, ATH or IP options. N and R Mounting Types only. See page 5 for EM/10W/TS DETAILS.
- Mounting Type required.
- May be required for 347V, see product bulletin at www.soleracorp.com.
- Trim stops separately.
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- L50 lumen package max with O Trim Type.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- R Trim Type only. Not available with MWT.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info, see page 5 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 6 for MOUNTING HARDWARE DETAILS.
- L30 lumen package max, L30 available, wide distribution only for listed times.
- Also used in new construction sheetrock ceilings.
- N and I Mounting Types only. I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.

TRC-3 ORDERING GUIDE *Ordering information for Pole & Fixture

Cat#	Light Dist.	No. of LEDs	Milliamps	Kelvin Temp	Volts	Config.	Color	Options
Trac 3 (TRC-3)	Type 2 (T2)	16 (16L)	700 (7)	3000K (30K)	120-277 (UNV)	Single (SGL)	Bronze Textured (BRZ)	Surge Protector (10K)
	Type 3 (T3)	32 (32L)	1050 (1)	4000K (40K)	340-480 (HV)	Double (D-180)	White Textured (WHT)	Nema 7-Pin Receptacle (PEF)
	Type 4 (T4)	48 (48L)		5000K (50K)		MPF Triple (TRU)	Smooth White Gloss (SWT)	Photocell (PC)
	Type 5 (T5)					MPF Quad (QD)	Silver Textured (SVR)	*Universal Voltage 120-277
						MPF Mid Pole Fixture (MPF)	Black Textured (BLK)	Dimming Control with Motion Sensor (UNV Voltage) (DC-20)
							Smooth Black Gloss (SBK)	For 9'-20' (DC-40)
							Graphite Textured (GPH)	For 21'-40'
							Grey (GRV)	Marine Grade Finish (MGF)
							Custom (CS)	House Side Shield (HSS)
								Rotated Optic Left (ROL)
								Rotated Optic Right (ROR)

Pole Height	MPF Fix	MPF LEDs	MPF mA	MPF Height	MPF Orient
16' (16)	Trac 3 (TRC-3)	16 (16L)	350 (35)	12' (12)	Single Right (SGLR)
18' (18)	Trac 2 (TRC-2)	32 (32L)	530 (53)	14' (14)	Single Left (SGLL)
20' (20)	Trac 1 (TRC-1)	48 (48L)	700 (7)	16' (16)	
22' (22)			1050 (1)	MPF Height From Ground	

TBL ORDERING GUIDE

Cat#	Length	Light Dist.	No. of LEDs	Milliamps
Trac Linear Bollard (TBL)	24 in (24)	Type 2 (T2)	16 (16L)	175 (175)
	36 in (36)	Type 3 (T3)		350 (35)
	42 in (42)	Type 4 (T4)		530 (53)

Kelvin	Volts	Mounting	Color	Options
3000K (30K)	120-277 (UNV)	Anchor Base (AB)	Bronze Textured (BRZ)	Surge Protector (10K)
4000K (40K)			White Textured (WHT)	Dimming Control with Motion Sensor (UNV Voltage) (DC-8)
5000K (50K)			Smooth White Gloss (SWT)	For 8' and below
			Silver Textured (SVR)	Marine Grade Finish (MGF)
			Black Textured (BLK)	
			Smooth Black Gloss (SBK)	Dual Head (DH)
			Graphite Textured (GPH)	
			Grey (GRV)	
			Custom (CS)	

Solera 1610 Sismet Road, Mississauga, Ontario L4W 1R4, Canada
 Toll Free: 1.877.765.3722 Fax: 905.457.1115 www.soleracorp.com

DGW - Wall Mount

Description: Fabricated aluminum housing construction with silicone gasket for weather seal. Several aluminum bar designs available. Contact for custom.

Name	Engine	Lumens	CCT	Electrical	Mounting	Lens	Pattern	Options	Finish
DGW-2C	12"x38"	60 LED (Max)	10560 (3G Version)	2700K				UNV 120-277V	
DGW-2UD	2PL32			3000K				HLV 347-480V	
DGW-3G	27BAX			3500K				TT Tri-Tap(HID)	
DGW-7G		15W LED		4000K				MT Multi-Tap(HID)	
DGW-75PL				5000K					
DGW-4G-PERF									
DGW-PERF									

Mounting	Lens	Light Pattern	Options	Finishes
WM Wall mount	OAL Opal acrylic lens (5d)	UDF Up, down & front light (td)	DM 0-10V dimming	Black
	ABL Alabaster lens	F Front light	PC Button photocell	WH White
			WL Wet location	SG Silver Grey
			SF Single fuse	BZ Bronze
			EM Emergency battery	Custom
			RB Remote ballast/driver	CC Custom Color
			TP Tamperproof hardware	See website for custom colors. Contact factory for physical samples.
			TS Tamperproof screws	
			RGW Programmable color changing LEDs	

Drawn: DN Checked: BK
 Scale: NTS Sheet No.:
 Project No.: 20-000-171 **ESP2**

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SEAL: PROFESSIONAL ENGINEER
 H. HAMMERSCHLAG
 2021.02.12
 NORTH ARROW:

PROJECT TITLE:
21 HUNTMAR DRIVE

SHEET TITLE:
ELECTRICAL SITE PLAN DETAILS

DRAWN: DN CHECKED: BK
 SCALE: NTS SHEET NO.:
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