

LIGHTI	NG DESIGN TABLE A			
ITEM	DESCRIP	DESCRIPTION		
LIGHTING PROGRAM	AGI	32		
STREET NAME(S)	PORTSID	E ROAD		
LAND USE	INDUST	RIAL		
ROADWAY CLASSIFICATION	COLLEC	TOR		
PEDESTRIAN CONFLICT AREA	MEDI	JM		
LAMP WATTAGE & LIGHT SOURCE	113W LED (4000K) - LRL NX	T-60M-600mA-3LB-4000k		
LIGHT LOSS FACTOR	0.8			
LUMINAIRE DISTRIBUTION TYPE	ТҮРЕ	3		
LUMINAIRE BUG RATING	B3-U0	-G3		
POLE SPACING (MAX)	45m (ONE	SIDED)		
ILLUMINANCE D	ESIGN CRITERIA - ROA	DWAY		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES		
ILLUMINATION LEVEL (Eavg) IN LUX	9.0	13.4		
UNIFORMITY RATIO (Eavg:Emin)	4.0:1	2.6:1		
LUMINANCE DE	ESIGN CRITERIA - ROAI	OWAY		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES		
LUMINANCE LEVEL (Lavg) IN cd/m <sup>2</sup>	0.6	0.6		
UNIFORMITY RATIO (Lavg/Lmin)	3.5:1	1.8:1		
UNIFORMITY RATIO (L <sub>max</sub> /L <sub>min</sub> )	6.0:1	2.8:1		
VEILING LUMINANCE RATIO (LV <sub>mav</sub> /L <sub>avg</sub> )	0.4:1	0.2:1		
ILLUMINANC	E DESIGN CRITERIA - M	1UP		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES		
ILLUMINATION LEVEL (Eavg) IN LUX	5.0	6.2		
	5.0:1	1.3:1		

ISOLINE ILLUMINATION LEVELS			
ISOLINE	LUMINAIRE TYPE		
COLOUR	113W LED		
	30 LUX		
	25 LUX		
	20 LUX		
	15 LUX		
	10 LUX		
	5 LUX		

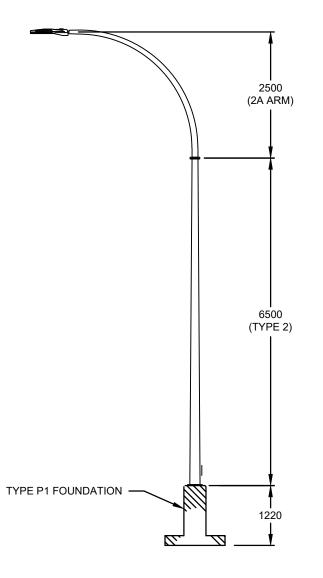
### OVERHEAD POWER LINE CONFLICTS

CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING POLES AND INSTALLING CONCRETE BASES.

### CHECK BEFORE YOU DIG

CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING BASES.

FOR CLARITY CONDUITS, JUNCTION BOXES AND STREETLIGHT POLES MAY NOT BE SHOWN AT DESIGN OFFSETS. CONTRACTOR SHALL LOCATE ALL EQUIPMENT BASED ON STATIONS AND/OR OFFSETS AS NOTED AND SHALL NOT RELY ON COORDINATES OBTAINED FROM DMD DIGITAL DRAWINGS. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING EQUIPMENT.



TYPICAL ROADWAY LUMINAIRE POLE



## C/W WORKING PAD (1000mm (L) X 100mm (D) X 600mm (W)). ( ) INDICATES TYPE E1 SPREAD FOOTING BASE AS PER MINISTRY STANDARD SPEC SP63J-1.1.4 PROPOSED DAVIT STREETLIGHT POLE (9.0m - LED LUMINAIRE, WATTAGE AS PER LIGHTING TABLE) ON A CITY OF RICHMOND TYPE P1 CONCRETE BASE. EXISTING DAVIT STREETLIGHT POLE (9.0m C/W LED LUMINAIRE). REMOVE EXISTING $\bigcirc$ LUMINAIRE AND INSTALL NEW AS PER LIGHTING TABLE. PROPOSED PLASTIC JUNCTION BOX (NOVA POLE P28-JB-B00-0I BOX SECTION WITH P28-CO-ST-B00-01 GALV. STEEL LID) $\boxtimes$ EXISTING ELECTRICAL KIOSK 🗌 JB EXISTING JUNCTION BOX PROPOSED 2 No. 6 RW90 LTG. AND 1 No. 8 BOND IN 1-35mm RPVC PROPOSED 3 No. 6 RW90 LTG. AND 1 No. 8 BOND IN 1-35mm RPVC PROPOSED 53mm RPVC STUB OUT (CAP AND MARK LOCATION) \_\_\_ EXISTING CONDUIT AND CONDUCTORS

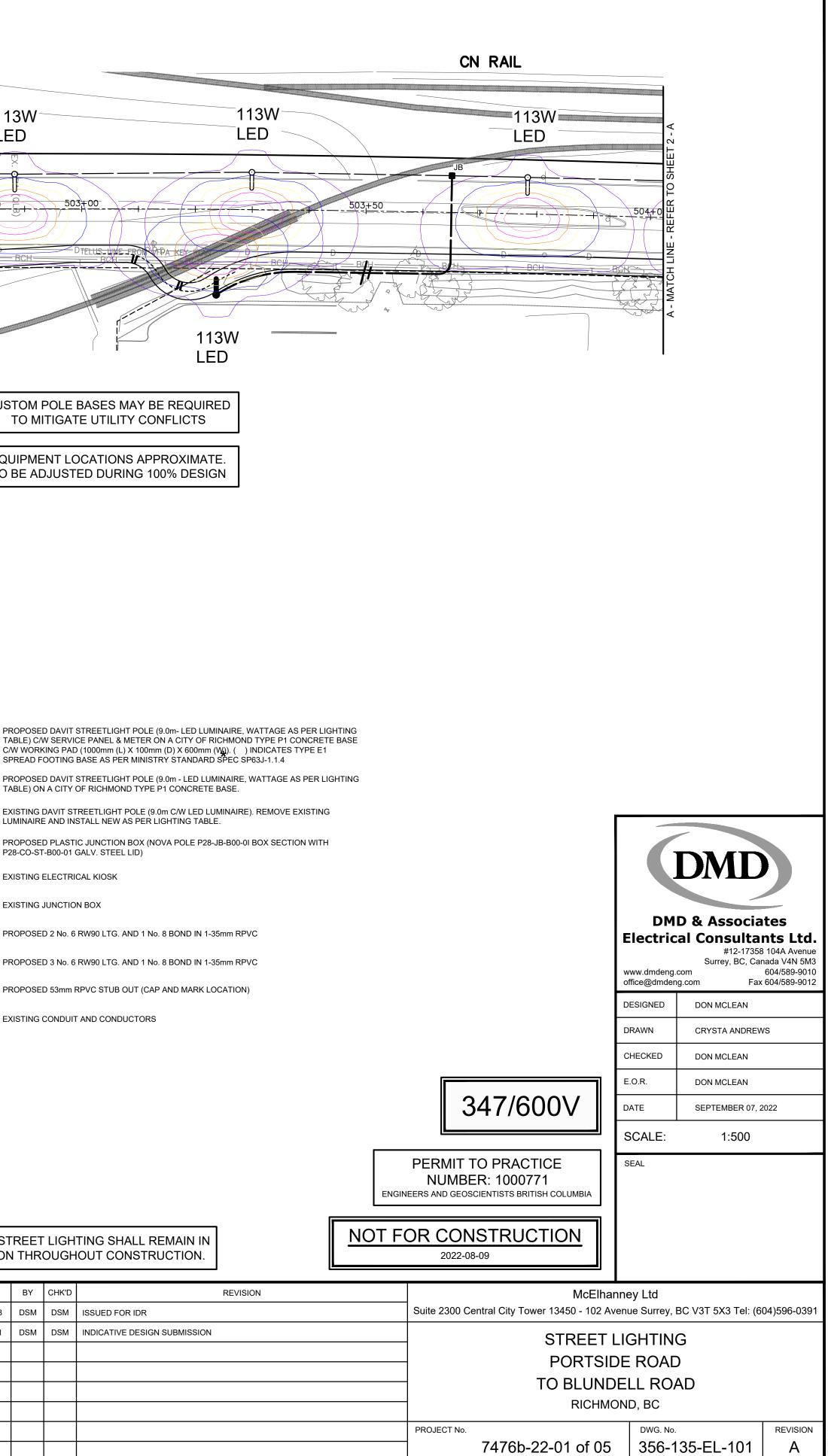
## LOCATING EQUIPMENT

# CAUTION! EXCAVATION NEAR OVERHEAD UTILITY POLE

ANY UNDERGROUND EXCAVATION WITHIN SOIL FOUNDATION INTERACTION AREA REQUIRES TEMPORARY UTILITY POLE SUPPORT. REFER TO ES55 E3-04 GUIDE FOR CIVIL EXCAVATION NEAR DISTRIBUTION POLES FOR DETAILS. REFER TO BC HYDRO WORK ON WOOD POLES MANUAL (ON SAFEHUB) AND BC HYDRO 2017-1-F POLE HOLDING REQUIREMENTS FOR APPROVED TEMPORARY POLE SUPPORT METHODS. FOR MORE INFORMATION CONTACT workmethods@bchydro.com

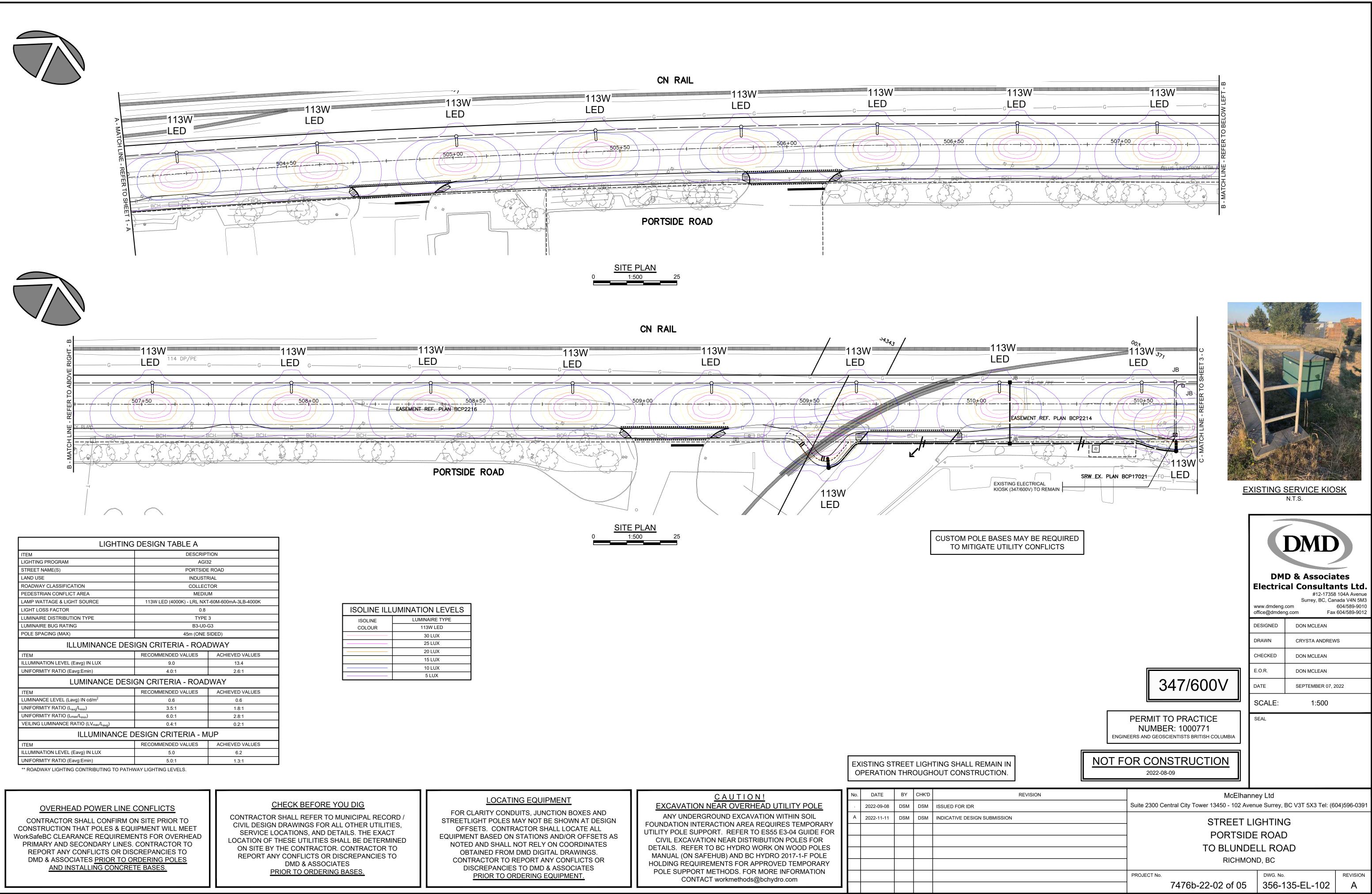
## EXISTING STREET LIGHTING SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION.

No.	DATE	BY	CHK'D	
	2022-09-08	DSM	DSM	ISSUED FOR IDR
А	2022-11-11	DSM	DSM	INDICATIVE DESIGN SUBMISSION



CANCEL PRINTS BEARING PREVIOUS LETTER

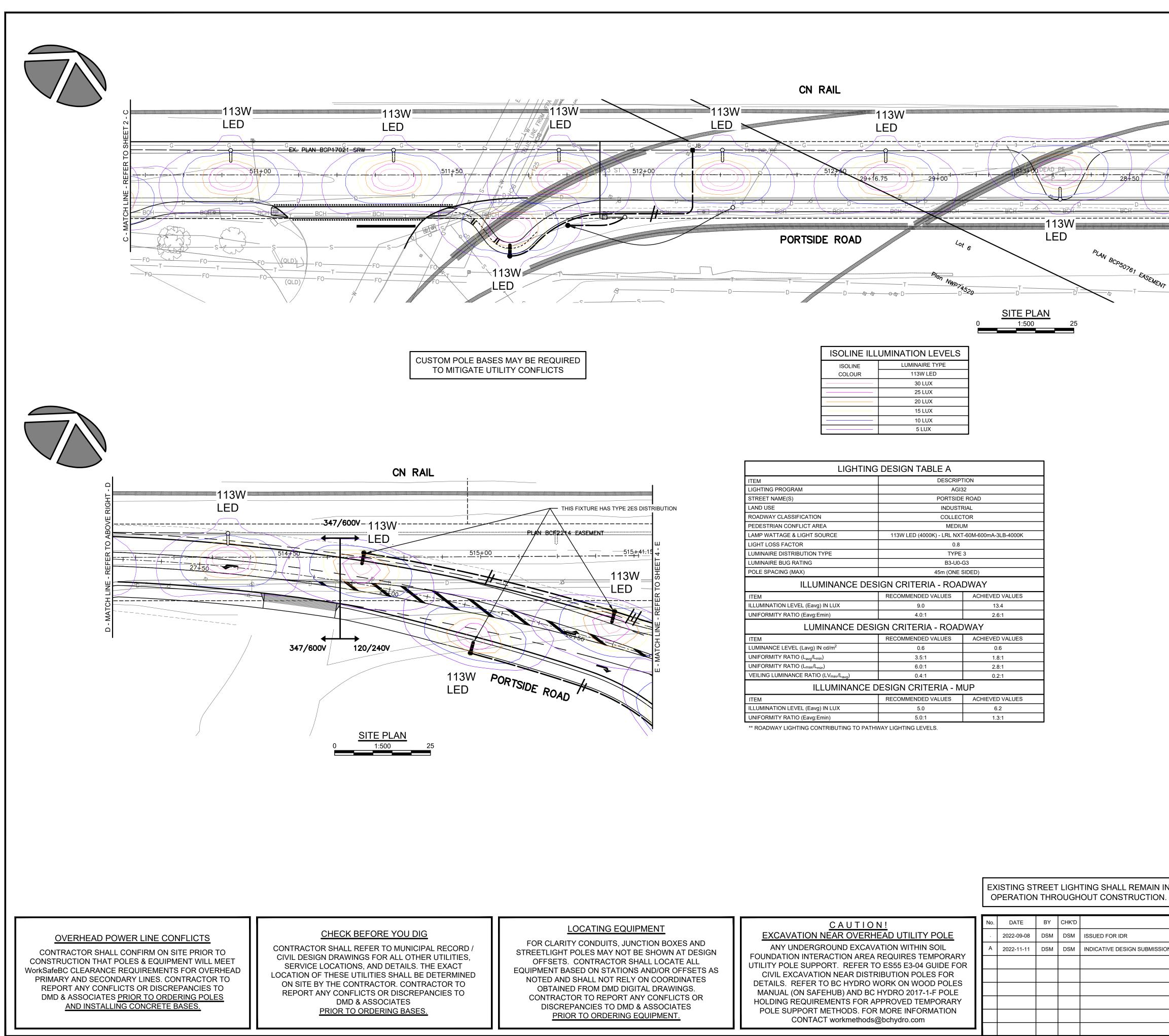
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EXISTING STREET LIGHTING SHALL REMAIN IN
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No.	DATE	BY	CHK'D	
•	2022-09-08	DSM	DSM	ISSUED FOR IDR
А	2022-11-11	DSM	DSM	INDICATIVE DESIGN SUBMISSION

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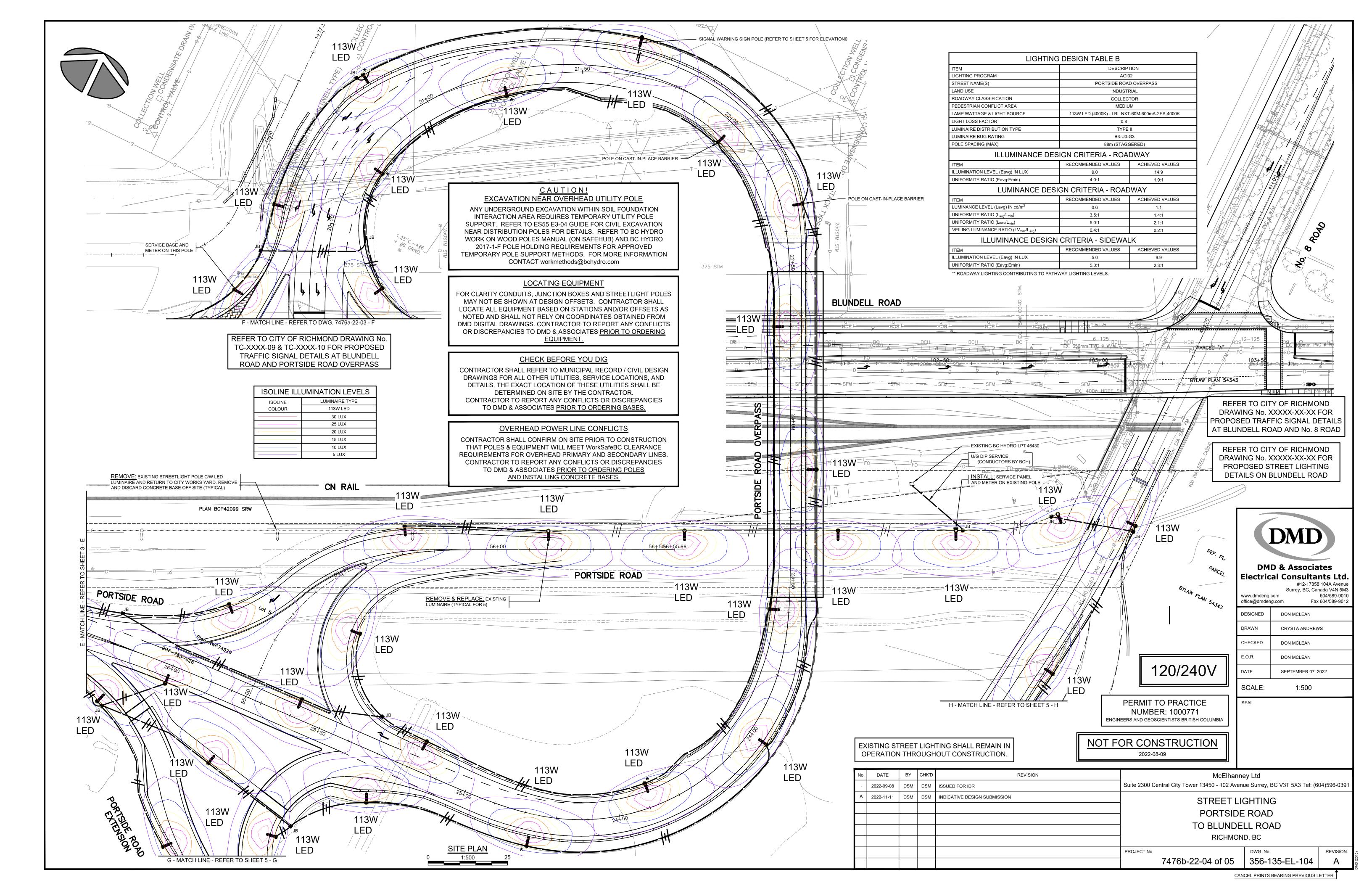


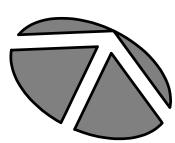
ISOLINE ILLUMINATION LEVELS				
ISOLINE	LUMINAIRE TYPE			
COLOUR	113W LED			
	30 LUX			
	25 LUX			
	20 LUX			
	15 LUX			
	10 LUX			
	5 LUX			

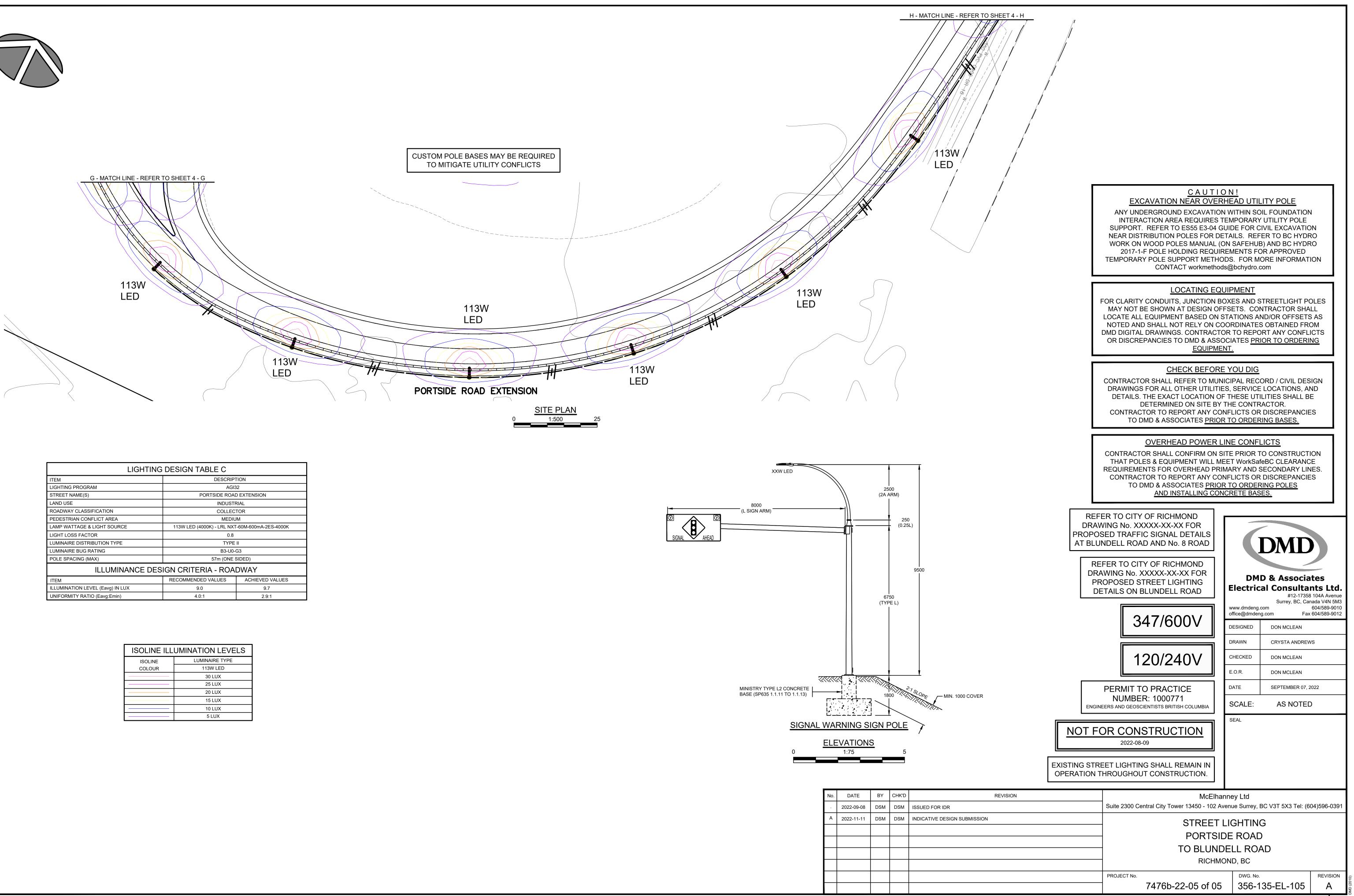
LIGHTING DESIGN TABLE A					
ITEM	DESCRIPTION				
LIGHTING PROGRAM	AGI3	32			
STREET NAME(S)	PORTSIDE	ROAD			
LAND USE	INDUST	RIAL			
ROADWAY CLASSIFICATION	COLLEC	TOR			
PEDESTRIAN CONFLICT AREA	MEDIU	М			
LAMP WATTAGE & LIGHT SOURCE	113W LED (4000K) - LRL NXT	-60M-600mA-3LB-4000K			
LIGHT LOSS FACTOR	0.8				
LUMINAIRE DISTRIBUTION TYPE	TYPE	3			
LUMINAIRE BUG RATING	B3-U0-0	G3			
POLE SPACING (MAX)	45m (ONE \$	SIDED)			
ILLUMINANCE DESIGN CRITERIA - ROADWAY					
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES			
ILLUMINATION LEVEL (Eavg) IN LUX	9.0	13.4			
UNIFORMITY RATIO (Eavg:Emin)	4.0:1	2.6:1			
LUMINANCE DESIGN CRITERIA - ROADWAY					
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES			
LUMINANCE LEVEL (Lavg) IN cd/m <sup>2</sup>	0.6	0.6			
UNIFORMITY RATIO (Lavg/Lmin)	3.5:1	1.8:1			
UNIFORMITY RATIO (Lmax/Lmin)	6.0:1	2.8:1			
VEILING LUMINANCE RATIO (LV <sub>mav</sub> /L <sub>avg</sub> )	0.4:1	0.2:1			
ILLUMINANCE D	ESIGN CRITERIA - M	UP			
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES			
ILLUMINATION LEVEL (Eavg) IN LUX	5.0	6.2			
UNIFORMITY RATIO (Eavg:Emin)	5.0:1	1.3:1			

					113W LED			113W LED			
	3 G 151.5+0 D BCH	DEAD		C C C C C C C C C C C C C C C C C C C							
			3W D	PLAW BCP50761 EASEMENT				D-MATCH			
/ IEVEI 13 2.6	1:500 1:500 34 3.4 3.4 3.4 3.4 3.4 3.4 3.4		25		<image/> <image/>		B POI	E AND SERVICE	G BCH TRANSFOR	MER	
	3:1 2:1 D VALUES 2									Surrey, BC, Car .com	nts Ltd. 104A Avenue hada V4N 5M3 604/589-9010 604/589-9012 /S
					_			PERMIT TO PRACTICE NUMBER: 1000771 EERS AND GEOSCIENTISTS BRITISH COLUMBIA	SEAL		
				TING SHALL REMAIN IN OUT CONSTRUCTION.		<u>NO</u>	T FC	DR CONSTRUCTION 2022-08-09			
No. A	DATE 2022-09-08 2022-11-11	BY DSM DSM	CHK'D DSM DSM	ISSUED FOR IDR INDICATIVE DESIGN SUBMISSION	REVISION			Suite 2300 Central City Tower 13450 - 102 STREET PORTS TO BLUN	Avenue Surrey, T LIGHTIN IDE ROAI IDELL RO MOND, BC	G D	04)596-0391
								ркојест №. 7476b-22-03 of 0	DWG. No 5 356-1	135-EL-103	

CANCEL PRINTS BEARING PREVIOUS LETTER







LIGHTING DESIGN TABLE C					
ITEM DESCRIPTION					
LIGHTING PROGRAM	AGI	32			
STREET NAME(S)	PORTSIDE ROA	D EXTENSION			
LAND USE	INDUST	RIAL			
ROADWAY CLASSIFICATION COLLECTOR					
PEDESTRIAN CONFLICT AREA	MEDIL	JM			
LAMP WATTAGE & LIGHT SOURCE	113W LED (4000K) - LRL NXT-60M-600mA-2ES-4000K				
LIGHT LOSS FACTOR	0.8	0.8			
LUMINAIRE DISTRIBUTION TYPE	TYPE	II			
LUMINAIRE BUG RATING	B3-U0-	B3-U0-G3			
POLE SPACING (MAX)	57m (ONE SIDED)				
ILLUMINANCE DESIGN CRITERIA - ROADWAY					
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES			
ILLUMINATION LEVEL (Eavg) IN LUX	9.0	9.7			
UNIFORMITY RATIO (Eavg:Emin)	4.0:1	2.9:1			

ISOLINE ILLUMINATION LEVELS				
ISOLINE	LUMINAIRE TYPE			
COLOUR	113W LED			
	30 LUX			
	25 LUX			
	20 LUX			
	15 LUX			
	10 LUX			
	5 LUX			

CANCEL PRINTS BEARING PREVIOUS LETTER