#### **GENERAL NOTES:**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND THE DISTRICT OF SOOKE BYLAW 404, SUBDIVISION AND DEVELOPMENT STANDARDS BYLAW, 2020.
- 2. ALL COMMON CIRCUIT WIRING SHALL BE TAGGED AND TY-RAPPED AS DETAILED IN THE MMCD, SECTION 26 56 01, SUBSECTION 3.8.
- HANDHOLES SHALL BE POSITIONED ON THE DOWNSTREAM TRAFFIC SIDE OF POLE OR
- 4. ALL CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOUR CODED, EXCEPT WHERE NOTED.
- 5. ELECTRICAL WORK SHALL CONFORM TO LATEST EDITION OF CANADIAN ELECTRICAL CODE AND BULLETINS PUBLISHED BY THE BC SAFETY AUTHORITY.
- 6. ALL WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
- THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORKS, EXCEPT AS NOTED.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS, AS REQUIRED BY THE BC SAFETY AUTHORITY.
- 9. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 10. CONTRACTOR SHALL REPAIR CURBS AND SIDEWALKS TO MATCH EXISTING CONDITIONS WHERE DAMAGED DUE TO CONSTRUCTION ACTIVITIES.
- 11. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND DATA SHEETS FOR APPROVAL PRIOR TO ORDERING EQUIPMENT.
- 12. CONDUCTORS FROM JUNCTION BOX TO LUMINAIRE POLE SHALL BE: 2 No. 10 AND 1 No. 12 IN 1-50mm RPVC, UNLESS NOTED OTHERWISE

#### CIVIL ELECTRICAL NOTES:

- 1. ALL CONDUITS SHALL BE VERIFIED AND CLEANED USING THE FOLLOWING PROCEDURE:
- TO VERIFY INTEGRITY OF CONDUIT, PULL THROUGH EACH DUCT, A HARD RUBBER MANDREL NOT LESS THAN 300mm LONG AND OF A DIAMETER 6mm LESS THAN INTERNAL DIAMETER OF DUCT, PRECEDED BY A SWAB OF SUITABLE DIAMETER TO REMOVE SAND, EARTH AND OTHER FOREIGN MATTER.
- NOTIFY PROJECT ENGINEER IN THE EVENT OF CONDUIT FAILURE.
- CLEAN DUCTS BEFORE LAYING. CAP ENDS OF DUCTS DURING CONSTRUCTION AND AFTER INSTALLATION TO PREVENT ENTRANCE OF FOREIGN MATERIALS.
- TERMINATE CONDUIT ENDS IN THE JUNCTION BOX AS PER STANDARD DRAWINGS.
- CLEAN AND VACUUM JUNCTION BOXES.
- 2. WHERE MINIMUM CLEARANCES FROM UTILITIES CAN NOT BE MAINTAINED, NOTIFY THE PROJECT ENGINEER.
- 3. ALL CONDUITS FROM JUNCTION BOXES TO BASES ARE TO BE 53mm RPVC, UNLESS NOTED
- 4. ALL CONCRETE BASES AND JUNCTION BOX SYMBOLS, ARE NOT TO SCALE.
- 5. ALL JUNCTION BOXES SHALL HAVE GALVANIZED STEEL LIDS.
- 6. SPARE CONDUITS IN CONCRETE FOOTINGS SHALL HAVE COUPLINGS AND BE CAPPED AT
- 7. INSTALL PULL LINE IN ALL EMPTY CONDUITS, INSTALL COUPLINGS AND THEN CAP.
- 8. THE CONTRACTOR SHALL NOT USE ANY FACTORY BENDS IN CONDUIT RUNS UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER IN THE FIELD. WHERE FACTORY 90 DEGREE BENDS ARE APPROVED, THE RADIUS SHALL BE GREATER THAN 900mm.
- 9. CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT IS INSTALLED WITHIN DISTRICT OF SOOKE RIGHT OF WAY.
- 10. LUMINAIRE POLES SHALL BE INSTALLED DIRECTLY BEHIND SIDEWALK UNLESS NOTED
- 11. UTILITY WARNING TAPE MUST BE PLACED 300mm OVER ALL UNDERGROUND CONDUIT RUNS.

#### **MATERIAL NOTES:**

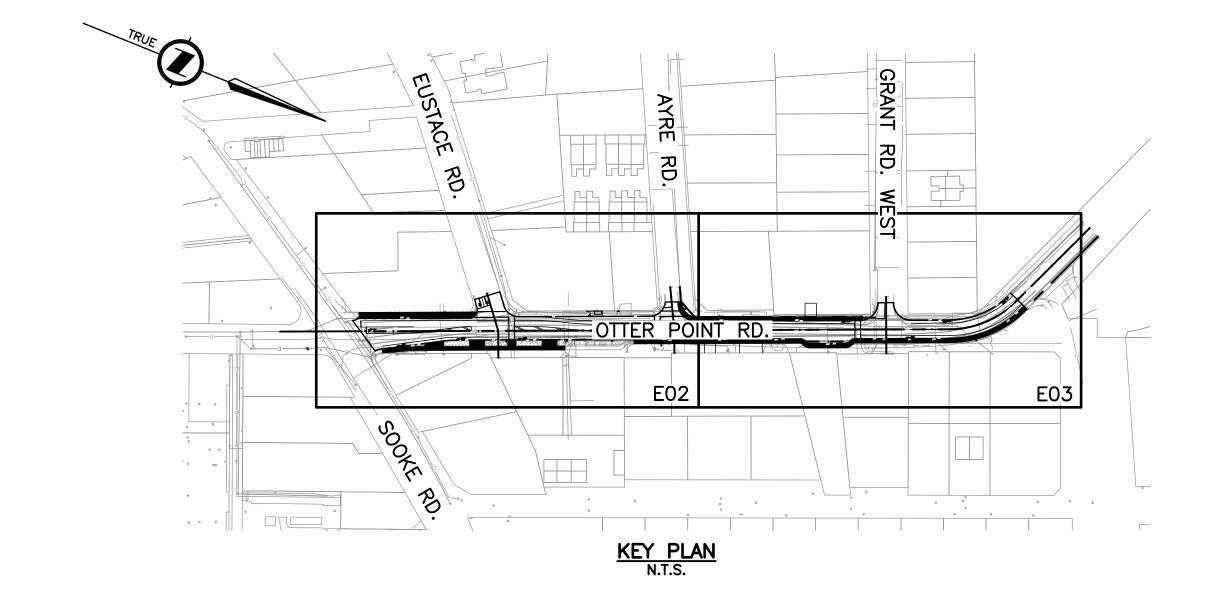
- 1. ALL MATERIALS SHALL BE NEW, IN ACCORDANCE WITH THE DISTRICT OF SOOKE BYLAW 404 EXCEPT WHERE NOTED. ALL LIKE MATERIALS SHALL BE FROM THE SAME
- 2. ELECTRICAL MATERIAL, EQUIPMENT, AND FITTINGS MUST BEAR EVIDENCE OF C.S.A. APPROVAL OR SPECIAL CERTIFICATIONS ACCEPTABLE TO THE CHIEF ELECTRICAL INSPECTOR. UNAPPROVED ITEMS SHALL BE REMOVED AND REPLACED AT THE
- 3. ALL POLE COMPONENTS SHALL BE POLYESTER POWDER COAT COLOUR: JET BACK (RAL
  - POLE: CYCLONE PS40 (POLE WALL THICKNESS SHALL BE SIZED AS REQUIRED TO SUIT THE POLE ACCESSORY LOADS AND THE LOCATION.)
- 4. LED LUMINAIRES SHALL BE:

   80W LED: CYCLONE NEW ERA-NEL30S1-FGC-3-80W-4K-120-PX-BK-TX

   20W LED: CYCLONE NEW ERA-NEL30S1-FGC-2-20W-4K-120-PX-BK-TX - 98W LED: GE EVOLVE ERLH-0-11-C3-40-BLCK-TX
- 5. A TRON HEB AA WEATHERPROOF FUSE HOLDER, C/W A 10A BUSS KTK FUSE AND 2 "L" TYPE INSULATION BOOTS, SHALL BE INSTALLED FOR EACH LUMINAIRE LIVE CONDUCTOR IN THE HANDHOLE IN ACCORDANCE WITH MMCD STANDARD DRAWING E7.11.

# OTTER POINT ROAD ACTIVE TRANSPORTATION PROJECT ISSUED FOR TENDER

DRAWING INDEX				
No.	DESCIPRTION REV			
E01	COVER SHEET - NOTES - KEY PLAN	1		
E02	SITE PLAN	1		
E03	SITE PLAN	1		
E04	ELEVATIONS	1		
E05	SERVICE KIOSK DETAILS	1		

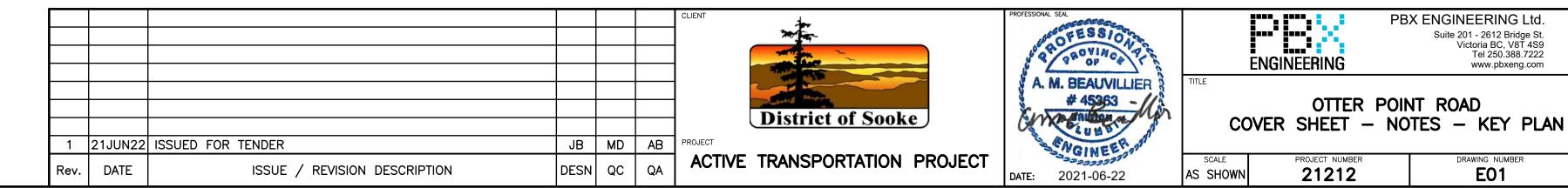


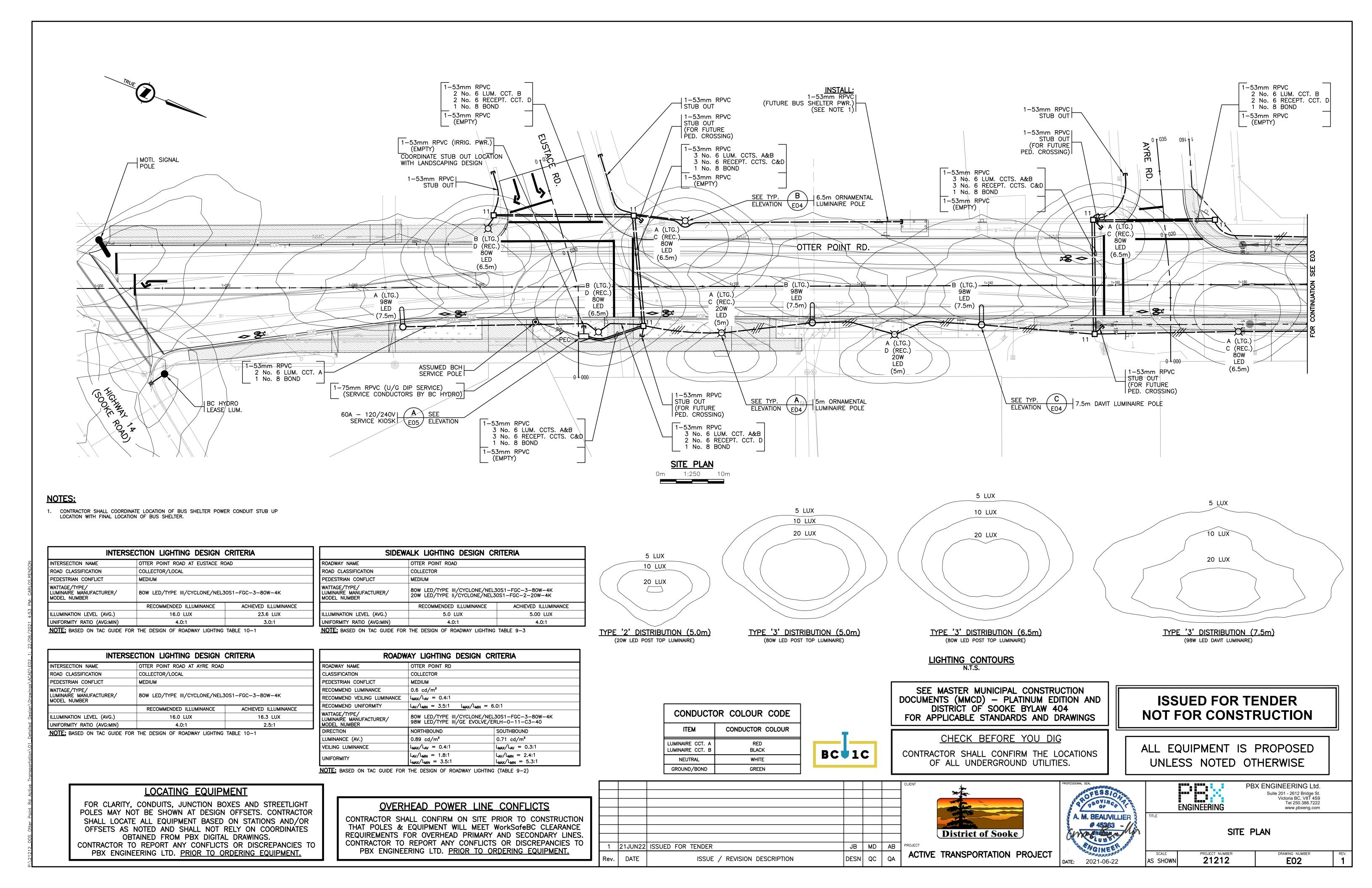
Victoria BC V8T 4S9 Tel 250.388.7222

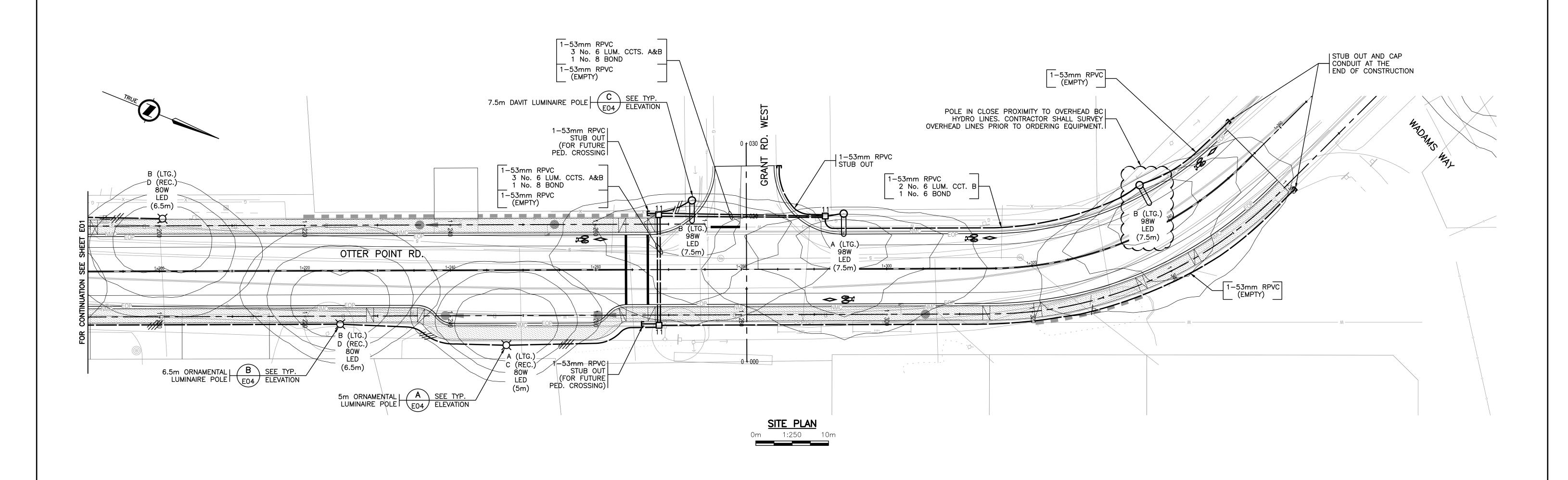
	LEGEND (SOLID	FILL DENOTE	S EXISTING)
ά	ORNAMENTAL LUMINAIRE		RAISED CURB PROPERTY LINE
<b>1</b> 0	MoTI STYLE JUNCTION BOX — No. DENOTES TYPE		EDGE OF PAVEMENT
<i>//</i>	1-53mm RPVC WITH 3 No. 6 LUM. CCTS. A&B, 3 No. 6 RECPT. CCTS. C&D AND No. 8 BOND		PAINT LINE FUTURE ELECTRICAL ELECTRICAL EQUIPMENT TO BE REMOVED
<del>//-</del>	1-53mm RPVC WITH 2 No. 6 LUM. CCT. A OR B, 2 No. 6 RECPT. CCT. C OR D AND No. 8 BOND		PROPOSED UNDERGROUND CONDUIT EXISTING UNDERGROUND CONDUIT
PEC PVC	PHOTO ELECTRIC CELL RIGID P.V.C. CONDUIT		FENCE CORRUGATED METAL PIPE (CULVERT)
		—G—	U/G UTILITY: 'G' DENOTES GAS 'S' DENOTES STORM DRAINS/SEWERS 'W' DENOTES WATER 'UE' DENOTES ELECTRIC

'UT' DENOTES TELEPHONE

'SAN' DENOTES SANITARY SEWER







INTERSECTION LIGHTING DESIGN CRITERIA				
INTERSECTION NAME	OTTER POINT ROAD AT GRANT ROAD WEST			
ROAD CLASSIFICATION	SSIFICATION COLLECTOR/COLLECTOR			
PEDESTRIAN CONFLICT LOW				
WATTAGE/TYPE/ LUMINAIRE MANUFACTURER/ MODEL NUMBER	80W LED/TYPE III/CYCLONE/NEL30S1-FGC-3-80W-4K 89W LED/TYPE III/GE EVOLVE/ERLH-0-11-C3-40			
	RECOMMENDED ILLUMINANCE	ACHIEVED ILLUMINANCE		
ILLUMINATION LEVEL (AVG.)	18.0 LUX	19.8 LUX		
UNIFORMITY RATIO (AVG:MIN)	4.0:1	2.0:1		
NOTE: BASED ON TAC GUIDE FOR THE DESIGN OF ROADWAY LIGHTING TABLE 10-1				

## **LOCATING EQUIPMENT**

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 PBX DIGITAL DRAWINGS.

CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO PBX ENGINEERING LTD. PRIOR TO ORDERING EQUIPMENT.

### 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 PBX ENGINEERING LTD. PRIOR TO ORDERING EQUIPMENT.

CONDUCTOR COLOUR CODE CONDUCTOR COLOUR LUMINAIRE CCT. A RED LUMINAIRE CCT. B BLACK NEUTRAL WHITE GROUND/BOND



SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - PLATINUM EDITION AND DISTRICT OF SOOKE BYLAW 404 FOR APPLICABLE STANDARDS AND DRAWINGS

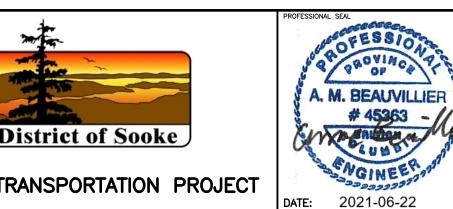
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CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL UNDERGROUND UTILITIES.

## **ISSUED FOR TENDER** NOT FOR CONSTRUCTION

ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

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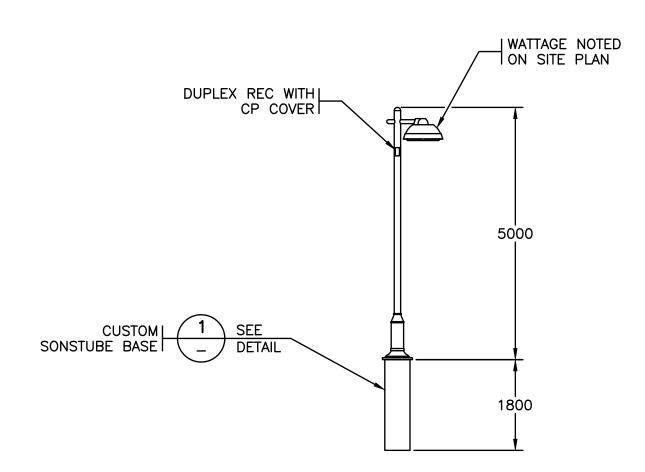


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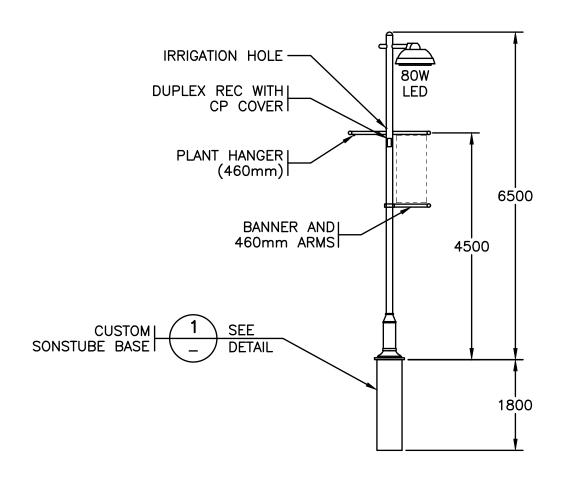
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PBX ENGINEERING Ltd.
Suite 201 - 2612 Bridge St. Victoria BC, V8T 4S9 Tel 250.388.7222 www.pbxeng.com

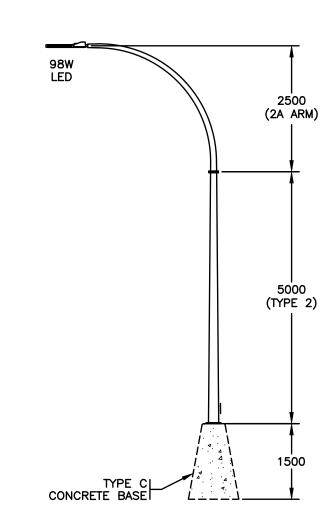
SITE PLAN DRAWING NUMBER EO3 21212



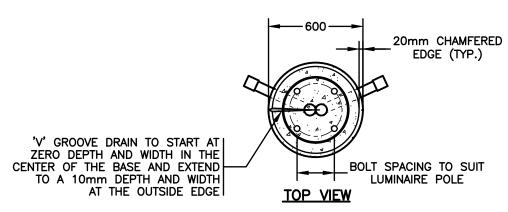


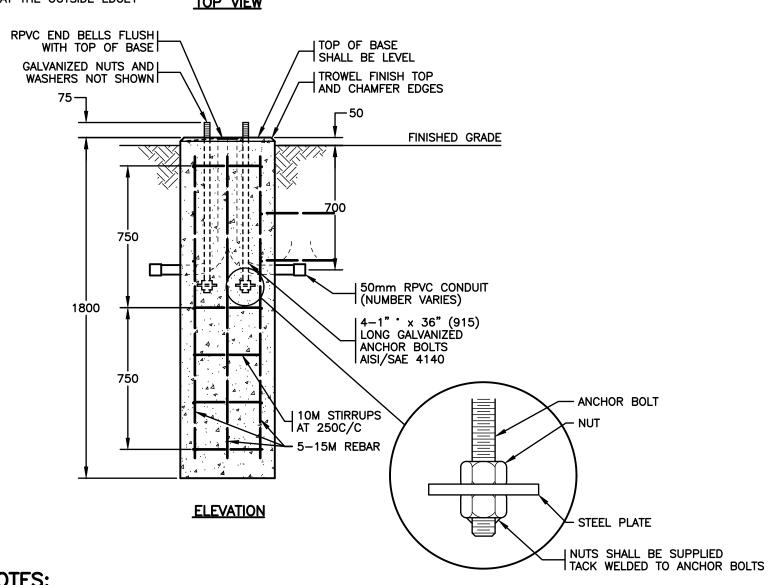






ELEVATION C C 7.5m DAVIT LUMINAIRE POLE





#### **NOTES:**

- 1. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH CAN/CSA G14-M92.
- 2. APPLY LUBRIPLATE OR OTHER SUITABLE GREASE TO EXPOSED PORTION OF ANCHOR BOLTS AND NUTS PRIOR TO POLE INSTALLATION.
- 3. CONCRETE TO HAVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.



# **ISSUED FOR TENDER** NOT FOR CONSTRUCTION

ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

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**ELEVATIONS** 21212 E04

4. FOOTINGS ARE DESIGNED FOR SOILS WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 125kPa. AFTER EXCAVATION DESIGN ENGINEER SHALL CONFIRM SOIL AND EXCAVATION PRIOR TO CONSTRUCTION OF BASE. SEE MASTER MUNICIPAL CONSTRUCTION
DOCUMENTS (MMCD) — PLATINUM EDITION AND
DISTRICT OF SOOKE BYLAW 404 5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. 6. BACKFILL SHALL BE S.G.S.B. IN ACCORDANCE WITH SECTION 202 OF BC MoTI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NO MORE THAN 150mm THICK TO 100% STANDARD PROCTOR FOR APPLICABLE STANDARDS AND DRAWINGS MAXIMUM DENSITY (ASTM D-698). DETAIL 1 CUSTOM SONOTUBE CONCRETE BASE

