

ADDENDUM NO. 1

DATE: PROJECT No. PROJECT NAME: July 18, 2017 ITT No. 2017-02

Metchosin Road Improvement

Page 1

Civil Addendum

1. This Addendum shall be read in conjunction with and considered as an integral part of the Contract Documents; revisions supercede the information contained in the original drawings, specifications or previously issued Addendum.

- 2. Tender Price submitted shall include all items of this Addendum.
- 3. No consideration will be allowed for any extras due to any bidder not being familiar with the contents of this Addendum.

1.0 Document Revisions:

1.1 Refer to Section IT – Part 1, "Instructions to Tenderers Part 1", item 3.1.

Replace "Tender Closing Date: July 20, 2017" with,

"Tender Closing Date: July 27, 2017"

Please note the Tender Closing time of **2:00 PM local time**, shall remain the same.

1.2 Reference Section IT – Part 1, Instructions to Tenderers Part 1:

Reference Item 3.3 FACSIMILE

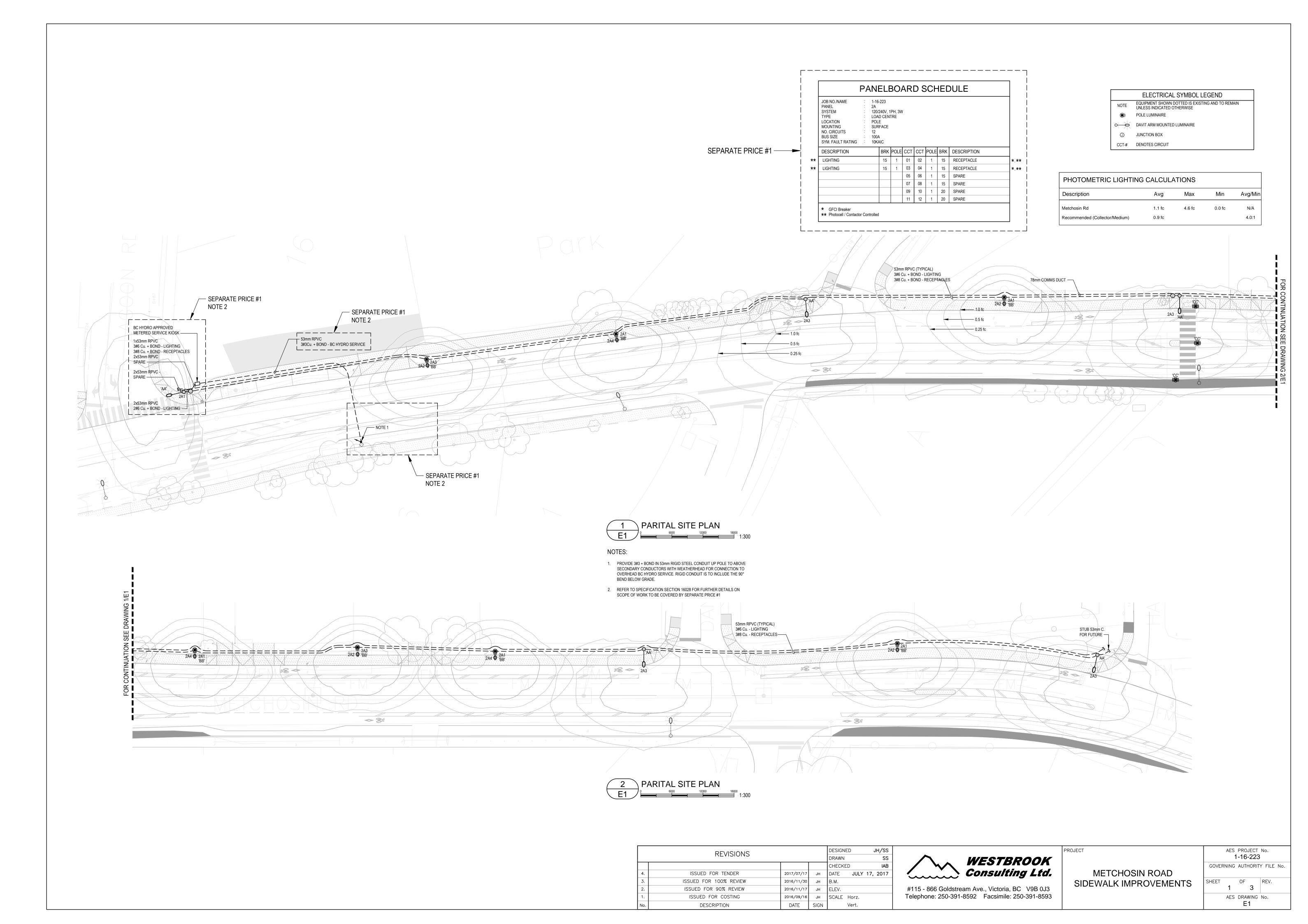
Replace "(250) 478-7516" with (250) 391-8593"

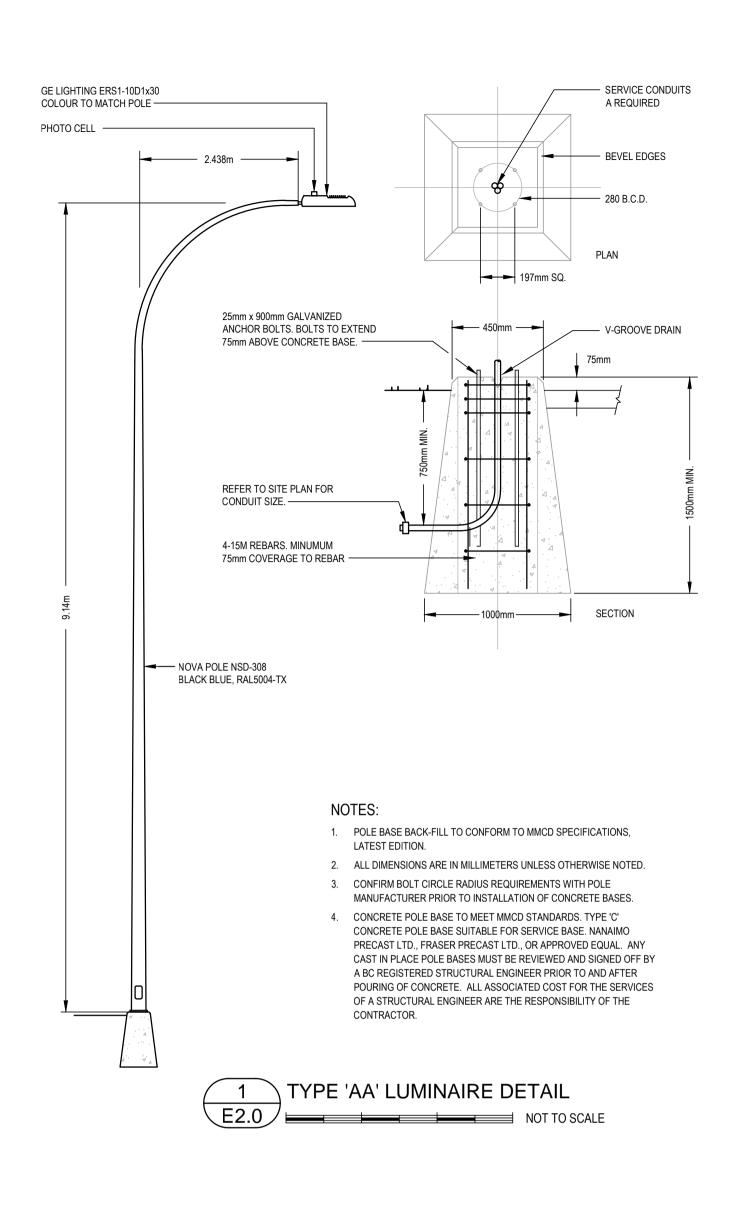
1.3 Reference Section Supplementary Conditions

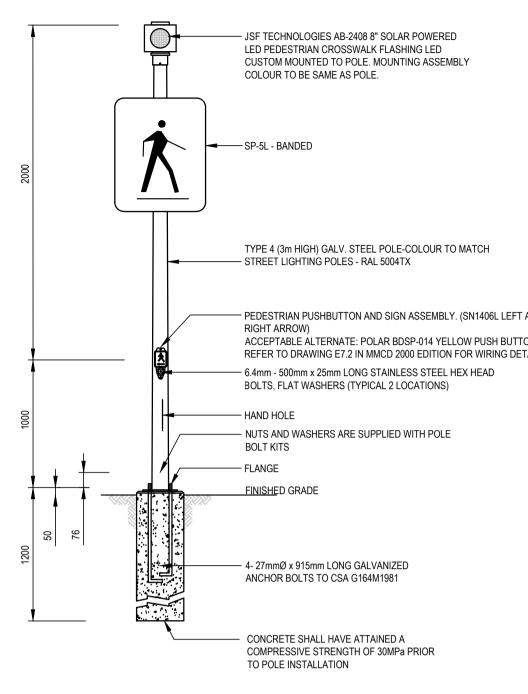
Delete Section 26 56 01 Roadway Lighting, Item 1.9

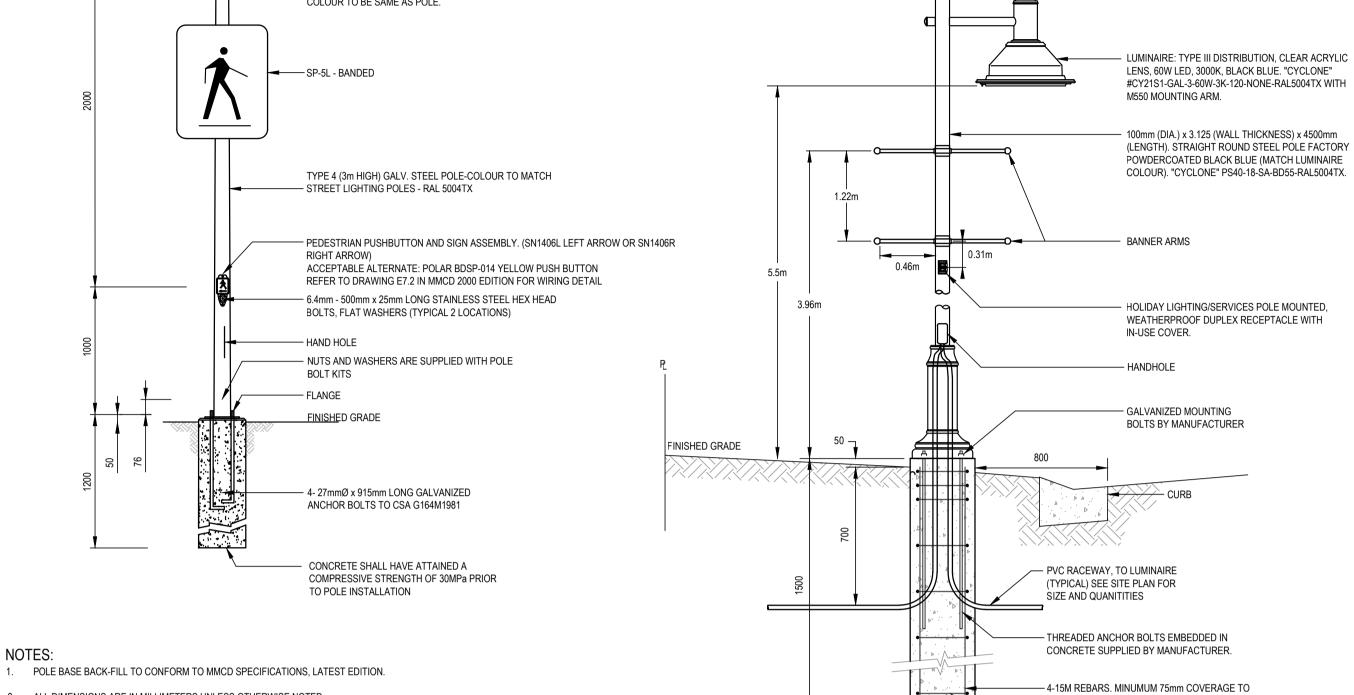
2.0 Drawings:

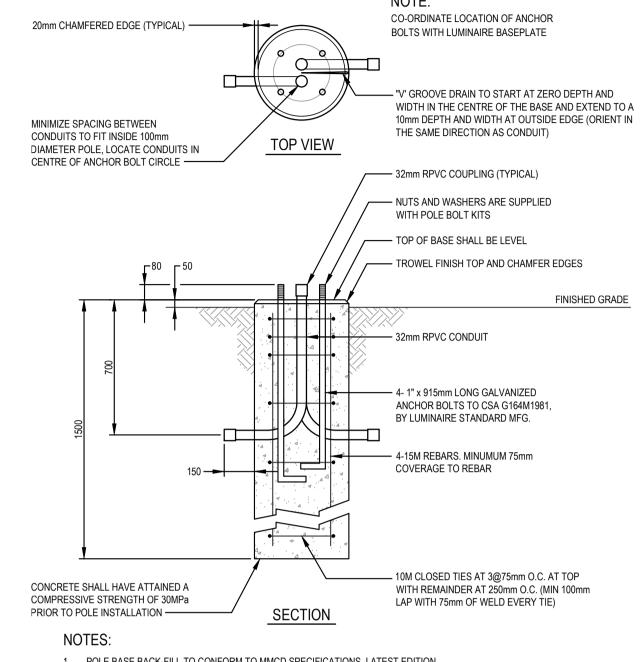
Reference AES drawings, E1, Rev 3, E2.0 Rev 4 and E 2.1 Rev 3 attached. These drawings shall replace the drawings AES drawings, E1, Rev 2, E2.0 Rev 2 and E 2.1 Rev 2 as issued with the tender documents.











- 1. POLE BASE BACK-FILL TO CONFORM TO MMCD SPECIFICATIONS, LATEST EDITION.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- 3. PROVIDE GROUND ROD ADJACENT TO POLE BASE. GROUND ROD TO EXTENT 0.8m PAST BOTTOM OF CONCRETE.
- 4. CONFIRM BOLT CIRCLE RADIUS REQUIREMENTS WITH POLE MANUFACTURER PRIOR TO INSTALLATION OF CONCRETE BASES. 5. CONCRETE POLE BASE TO MEET MMCD STANDARDS. TYPE 'B' CONCRETE POLE BASE. NANAIMO PRECAST LTD., FRASER PRECAST LTD., OR APPROVED EQUAL. ANY CAST IN PLACE POLE BASES MUST BE REVIEWED AND SIGNED OFF BY A BC

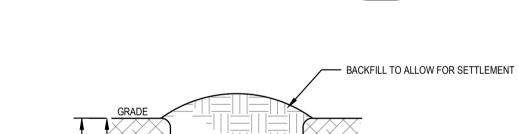
REGISTERED STRUCTURAL ENGINEER PRIOR TO AND AFTER POURING OF CONCRETE. ALL ASSOCIATED COST FOR THE SERVICES OF A STRUCTURAL ENGINEER ARE THE RESPONSIBILITY OF THE CONTRACTOR.

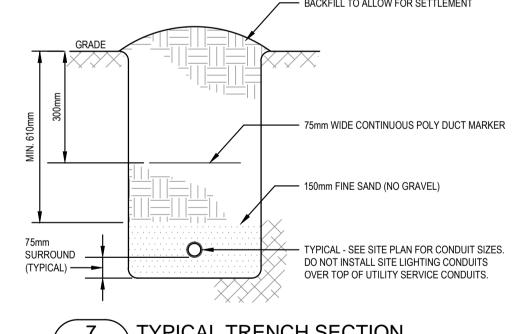
E2.0 NOT TO SCALE



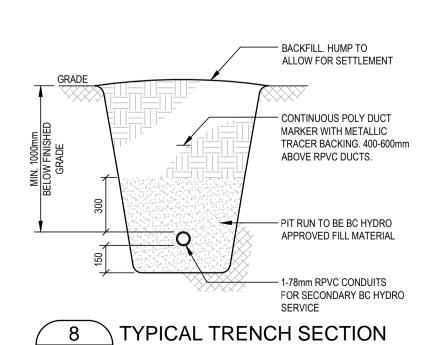
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

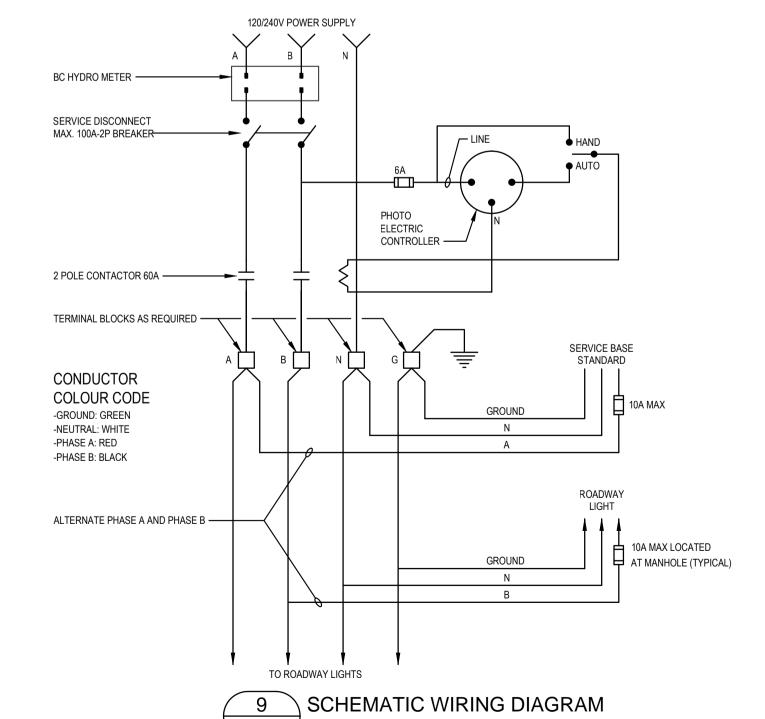
3. CONFIRM BOLT CIRCLE RADIUS PRIOR TO INSTALLATION OF CONCRETE BASES.

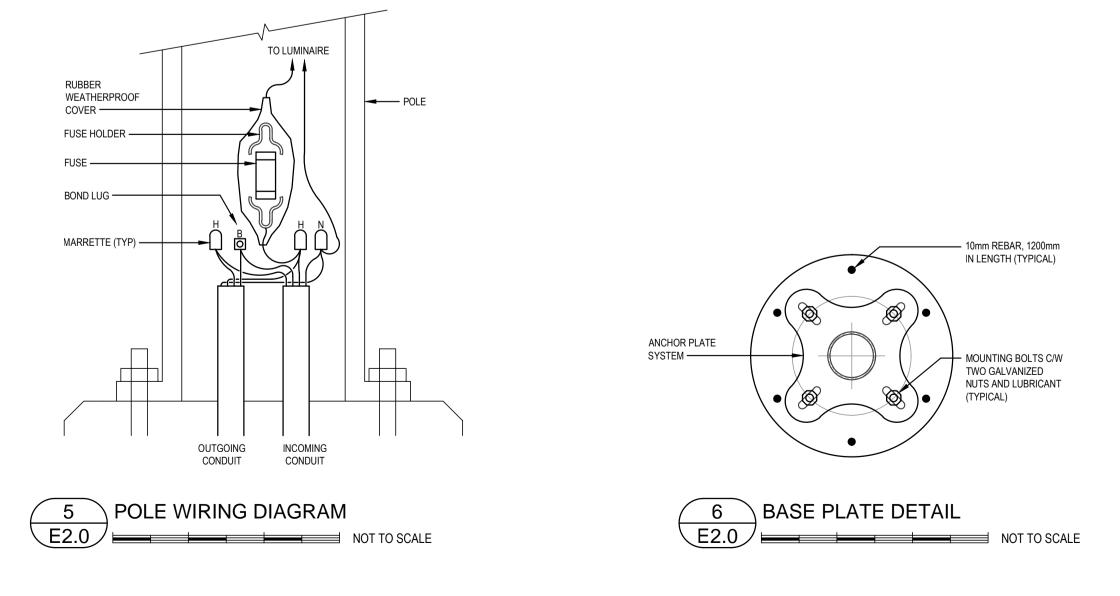












REVISIONS				DESIGNED DRAWN		JH/SS
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				CHECKE	D	IAB
4.	ISSUED FOR TENDER	2017/07/17	JH	DATE	JULY	17, 2017
3.	ISSUED FOR 100% REVIEW	2016/11/30	JH	B.M.		
2.	ISSUED FOR 90% REVIEW	2016/11/17	JH	ELEV.		
1.	ISSUED FOR COSTING	2016/09/16	JH	SCALE	Horz.	
No.	DESCRIPTION	DATE	SIGN		Vert.	

NOT TO SCALE



#115 - 866 Goldstream Ave., Victoria, BC V9B 0J3 Telephone: 250-391-8592 Facsimile: 250-391-8593

LUMINAIRE: TYPE III DISTRIBUTION, CLEAR ACRYLIC

#CY21S1-GAL-3-60W-3K-120-NONE-RAL5004TX WITH

100mm (DIA.) x 3.125 (WALL THICKNESS) x 4500mm

COLOUR). "CYCLONE" PS40-18-SA-BD55-RAL5004TX.

M550 MOUNTING ARM.

IN-USE COVER.

GALVANIZED MOUNTING

HANDHOLE

- 10M CLOSED TIES AT 3@75mm O.C. AT TOP WITH

75mm OF WELD EVERY TIE)

TYPE 'BB' LUMINAIRE DETAIL

REMAINDER AT 250mm O.C. (MIN 100mm LAP WITH

METCHOS SIDEWALK IMI

NOT TO SCALE

	AES PROJECT No. 1-16-223					
SIN ROAD	GOVERNING AUTHORITY FILE No.					
IPROVEMENTS	SHEET OF REV.					
	AES DRAWING No. E2.0					

ELECTRICAL SPECIFICATIONS
16010 - SCOPE
Provide all items, material, equipment and labour required to complete the work or operations mentioned herein or indicated on the drawings.
Pay for all associated fees such as electrical permits, and inspection services by the Provincial Inspection Branch
16011 - DISCREPANCY
Carefully examine all plans and specifications pertaining to this contract and visit site to determine all factors affecting costs and include in contract sum. Notify engineer of discrepancies or conflicting information before submitting price. Failing such notification, this contractor shall meet all such requirements without extra cost to the owner.
16012 - COORDINATION
Consult with all other trades to confirm locations of equipment, underground utilities and BC Hydro pad mount transformers. and cooperate with all trades to ensure progress of installation without conflict. In case of difference of opinion, refer the matter to the Engineer for final decision.
16013 - CODES AND PERMITS
All work shall be in accordance with the current edition of the Canadian Electrical Code as amended and adapted by the Province of British Columbia. Obtain all necessary permits and licenses and pay all fees in connection with the work.
16014 - WORKMANSHIP

Carry out all work in a neat and workmanlike manner to the engineer's satisfaction.

16016 - EQUIPMENT/DEVICES

16015 - C.S.A.
All 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 immediately returned to the supplier in exchange for approved items.

All equipment shall be installed as shown on plans and details.
 Street lighting system shall consist of a complete operating system, including but not necessarily limited to; luminaires, lamps, poles, concrete bases, anchor bolts, conduit, wire, in-line fuses, and all other equipment shown on plans.

Ensure that existing services of any kind are not unduly disturbed and/or interrupted by this installation. Coordinate service interruptions with the Engineer.
 16018 - EXTRAS

No extra will be allowed on this contract due to lack of proper survey of existing conditions by this contractor.
 16019 - AS-BUILT DRAWINGS
 Keep a set of white prints and make all changes in red. Make this set of prints available to the engineer at any time. Submit the set of as-built drawings to the electrical engineer at the time of the final inspection.

the electrical engineer at the time of the final inspection.

16020 - TESTING

1. Carry out tests of installation as it progresses. Repair any faulty installation at own expense.

1. Obtain an official written work order before the start of extra work. No claim shall be raised without such written work order.

CONDUIT AND BOXES
 All conduit to be RPVC as indicated. All connectors and coupling shall be installed as per manufactures instructions.
 Wherever possible, street lighting duct shall be in common trench with B.C Hydro and Telus. Other wise ducts shall be routed parallel or perpendicular to the roadway and run directly between adjacent poles. Junctions shall be made at a pole base or in a junction box located adjacent to a pole base. Use of junction boxes must be approved by the Engineer. All bends to be large radius type. Minimum depth of bury below finished grade shall be:

 0.6m - areas not subject to vehicular traffic
 0.9m - subject to vehicular traffic

 Exposed conduit shall be hot-dip galvanized rigid steel. Conduit clamps and fittings shall be hot dip galvanized malleable iron. Buried conduit shall be

Exposed conduit shall be hot-dip galvanized rigid steel. Conduit clamps and fittings shall be hot dip galvanized malleable iron. Buried conduit shall be rigid PVC. Couplings shall be threadless type, approved for cement welding. Minimum size shall be 32mmØ.
 BC Hydro service entrance conduit shall be 75mm. Conduit stub beyond project boundaries shall be 50mm

16022 - GROUNDING
 The combined ground resistance shall not exceed 10 ohms, by connection to artificial grounding electrodes. Grounding connections, if exposed, shall be located in the service base. Grounding shall be achieved by the use of a single 19mm x 3000mm ground rod, plate electrode, or other method approved by the municipal engineer to achieve the required resistance.
 16023 - CONDUCTORS

Shall be sized to not exceed a voltage drop of 5% over the length of the run.
 Shall be standard copper, with RW-90 (x-link) insulation. Minimum sizes to be as follows:
 #6 AWG - for feeder runs
 #12 AWG - on pole
 #14 AWG - for control
 #10 AWG - Irrigation and tree receptacles
 Conductors shall be sized in accordance with ballast start and running loads, voltage drop of line, and anticipated future extension of circuit loads.

16024 - FUSES
Each luminaire shall be protected by a 10 amp HRC fuse with HEB waterproof fuse holders located inside the hand hold of each pole. Conductors shall

allow for the fuse holder to be removed from the pole base for maintenance.
16025 - JUNCTION BOXES
Underground junction boxes shall only be used with special approval of the Municipal Engineer and where authorized by the Provincial Electrical Inspector. If approved, junction boxes shall be plastic or precast concrete with a bolt locking devise and marked "ELECTRICAL" with permanent lettering.
16026 - PHOTO-ELECTRIC CONTROLLER
Photo-electric controllers shall be cadmium sulphide type (120V) with twist lock base. Operation shall be delayed action with externally adjustable

Service PANEL
 Shall be in a CEMA 3 enclosure The service panel shall contain a service breaker, lighting contactor, selector switch (HOA). The service enclosure shall have only those openings necessary to accommodate conduits at the time of installation. Service conduits shall enter or leave enclosure though threaded hubs.

1.4. Clarify base price is to include conduit from junction box and conductors from kiosk for all remaining luminaires and receptacles.

16028 - SEPARATE PRICES
1. Separate Price #1:
1.1. Provide BC Hydro dip service and new electrical kiosk as detailed on the drawings.
1.2. Provide and connect type 'AA' luminaire pole and base at intersection as shown.
1.3. Provide and install new in ground junction box and connect conduit and conductors to kiosk and type 'AA' luminaire (item 1.2 above) as shown.

)→ BC HYDRO METER NOTES: 1. VALID MANUFACTURING #KSDA48-24-16 LOCKABLE KIOSK WITH 100A, 120/240V, 1PH, 3W 12 CIRCUIT PANELBOARD, 4 POLE CONTACTOR, TIMECLOCK (PARAGON EC71ST) AND PHOTOCELL. PANELBOARD C/W 100A-2P MAIN BREAKER AND 6-15A-1P GFI SUB FEED BREAKERS AND 30A-2P BREAKER FOR SIGNAL CONTROLLER. 2. PROVIDE KIOSK INTERIOR MOUNTED DUPLEX RECEPTACLE, 100W CERAMIC HEATER WITH THERMOSTAT, LUMINAIRE AND SWITCH. LUMINAIRE TO BE LITHONIA RAZ 241N 35K 3. POWDER COAT BLACK BLUE RAL9004-TX TO MATCH LUMINAIRE POLES. NOT TO SCALE SEPARATE PRICE #1 — STEEL LID — TOP OF JUNCTION BOX TY-RAP CONDUCTORS FLUSH TO GROUND TO STEEL PIPE — DRILL HOLES IN SIDES OF JUNCTION BOX TO INSTALL 12mm DIA. PVC PIPE. WHERE HANGING EYELETS ARE AVAILABLE, THE PVC PIPE MAY BE HUNG USING GALVANIZED STEEL WIRE — TWO JUNCTION BOXES STACKED AS SHOWN WITH LOCKING PINS IN PLACE AND LID ON TOP ONLY — RPVC CONDUIT AS REQUIRED ----PERFORATED DRAIN PLATE — 2 JUNCTION BOX DETAIL
E2.1 NOT TO SCALE L_______

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JH/SS DESIGNED REVISIONS DRAWN SS CHECKED ISSUED FOR TENDER DATE **JULY 17, 2017** 2017/07/17 ISSUED FOR 100% REVIEW 2016/11/30 ISSUED FOR 90% REVIEW 2016/11/1 JH ELEV. ISSUED FOR COSTING 2016/09/16 JH SCALE Horz. DATE Vert. DESCRIPTION



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METCHOSIN ROAD
SIDEWALK IMPROVEMENTS

AES PROJECT No.
1-16-223

GOVERNING AUTHORITY FILE No.

SHEET OF REV.
3 3

AES DRAWING No.
E2.1