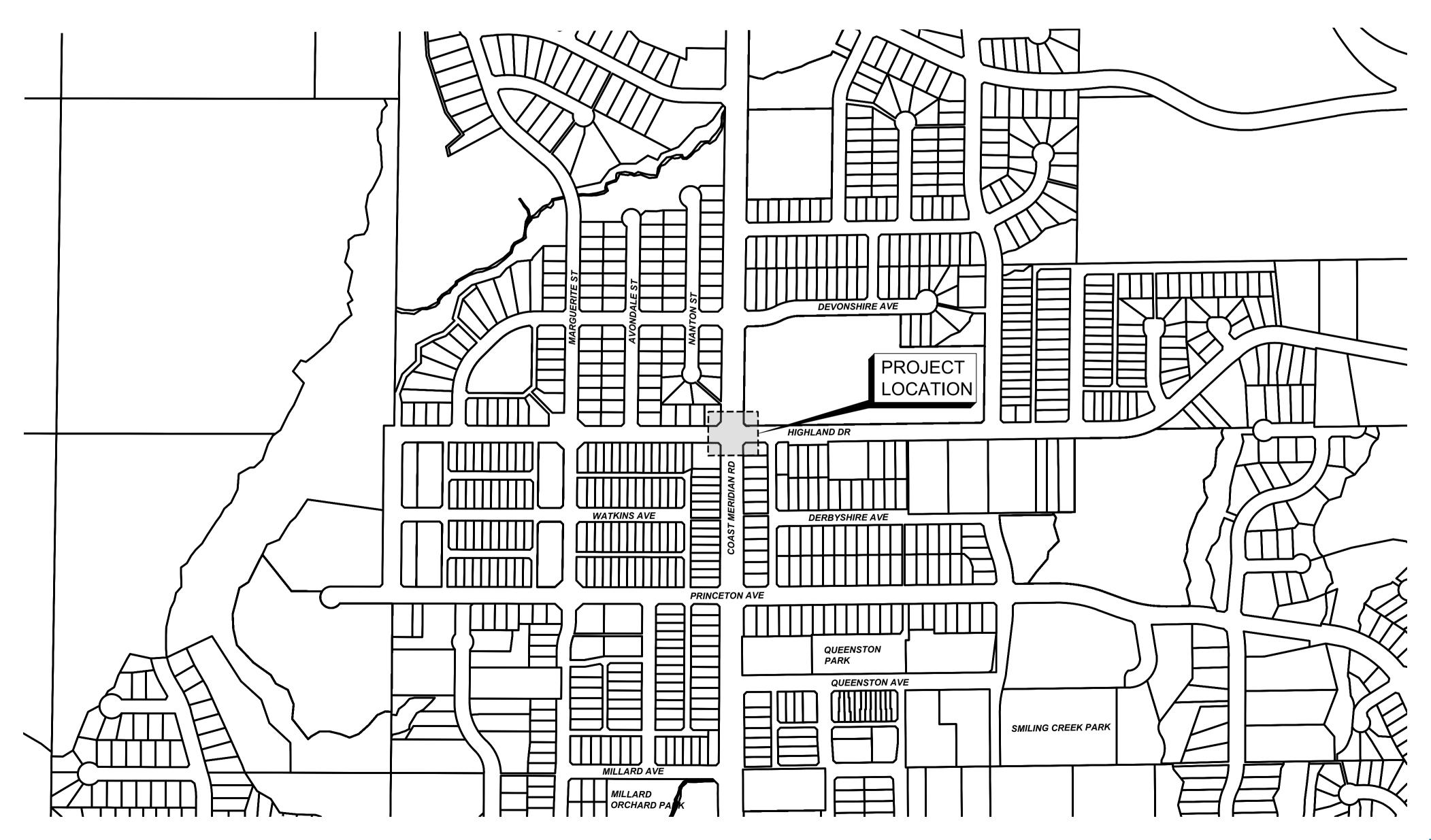


	DRA	AWING SCHEDU	JLE
CATEGORY	DWG. NO.	SHEET TITLE	REV. NO
GENERAL	00	COVER	
GENERAL	01	GENERAL NOTES	Α
PLAN	02	PLAN	В
ELECTRICAL	03	TRAFFIC SIGNAL	1
	04	ELEVATIONS	1

COAST MERIDIAN AND HIGHLAND INTERSECTION SIGNAL DESIGN ISSUED FOR TENDER



GENERAL NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE NOTED.
- 2. THE LOCATION OF EXISTING UTILITIES IS COMPILED FROM OWNER AND UTILITY SUPPLIED RECORD DRAWINGS AND ARE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION AND EXTENT OF UTILITIES SHOULD BE DETERMINED BY CONSULTING THE LOCAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND OR HYDROVAC EXCAVATION BEFORE CONSTRUCTION OF UTILITY CROSSINGS AND SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE TO EXISTING UTILITIES. ANY COSTS ASSOCIATED WITH UTILITY CONFLICTS THAT WERE NOT PRELOCATED WILL BE THE CONTRACTORS RESPONSIBILITY.
- NOTIFY THE CITY OF COQUITLAM 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR UTILITY RELOCATION.
- REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER A MIN 72 HOURS PRIOR TO CONSTRUCTION.

RESTORATION OF EXISTING DRIVEWAYS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS.

- BOULEVARDS ARE TO BE CONSTRUCTED TO THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE SHOWN ON CONTRACT DRAWINGS. BOULEVARDS TO BE SLOPED TO INSPECTION CHAMBERS WHERE APPLICABLE.
- EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.
- ALL SURVEY MONUMENTS WITHIN THE PROJECT BOUNDARIES SHALL BE PROTECTED DURING THE COURSE OF THE WORK. SHOULD ANY SURVEY MONUMENT REQUIRE RAISING OR RELOCATION. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERING AND OPERATIONS DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF SCHEDULING WORK. ALL DISTURBED MONUMENTS WILL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 10. ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS SHALL BE KEPT IN A CLEAN STATE AT ALL TIMES. DUST CONTROL MEASURES SHALL ALSO BE EMPLOYED DURING THE COURSE OF THE WORK.
- 11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES. SEQUENCES AND PROCEDURES, AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THERE IS NO DISRUPTION TO SERVICE, AND IF DISRUPTION IS ANTICIPATED, TO NOTIFY THE DESIGN ENGINEER A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.
- 12. THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY POLE SUPPORTS NECESSARY TO COMPLETE THE WORKS AS AN INCIDENTAL ITEM TO GENERAL CONTRACT REQUIREMENTS WHERE AND AS REQUIRED.
- 13. CONTRACTOR TO MAINTAIN AN UP TO DATE SET OF AS-CONSTRUCTED DRAWINGS AT ALL TIMES. AS-CONSTRUCTED DRAWINGS TO BE DELIVERED TO THE ENGINEER AT SUBSTANTIAL PERFORMANCE FOR PREPARATION OF FINAL RECORD DRAWINGS. THE ENGINEER SHALL BE PROVIDED ACCESS TO REVIEW THE AS-CONSTRUCTED DRAWINGS AT ALL TIMES TO CONFIRM THEY ARE UP TO DATE.
- 14. THE CONTRACTOR SHALL MAINTAIN AND MONITOR THE PROVISIONS FOR EROSION CONTROL AND SEDIMENT AS PER CONTRACT DOCUMENTS.
- 15. THE CONTRACTOR SHALL ADJUST ALL AFFECTED MANHOLE FRAME AND COVERS A MIN. 24 HOURS PRIOR TO FINAL TOP LIFT PAVING. ANY ADJUSTMENTS THAT DO NOT MEET MMCD TOLERANCES SHALL BE IMMEDIATELY RESET AND CORRECTED.
- 16. ALL PAVEMENT MARKINGS PAINT TO BE THERMOPLASTIC.

DATE DRAWN APPR'I

2024/07/11 EH

PLOT DATE: July 11, 2024 REV NO REVISIONS

ISSUED FOR TENDER

- 17. ALL TOP LIFT PAVING JOINTS TO BE LOCATED UNDER THE THERMOPLASTIC CENTERLINE PAVEMENT MARKINGS.
- 18. ALL ASPHALT JOINT MUST BE SMOOTH AND WITHOUT VISIBLE BREAKS IN GRADE.
- 19. SUBMIT DENSITY TESTS TAKEN ON JOINTS. NO INDIVIDUAL TEST LESS THAN 95% DENSITY.
- 20. ALL LANE DIMENSIONS ARE MEASURED TO THE CENTER OF LANE LINES (FOR DOUBLE LINE THE MEASUREMENT IS TO THE MIDDLE POINT BETWEEN THE 2 LINES).

TRAFFIC MANAGEMENT, NOTIFICATION AND APPROVALS NOTES:

- 1. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNAGE, BARRIERS, FLASHING INDICATORS, ETC. AT ALL TIMES TO ENSURE THE SAFETY OF THE PUBLIC. TRAFFIC CONTROL WILL BE REQUIRED FOR ALL CONSTRUCTION WORKS WITHIN THE TRAVELED PORTION OF THE ROAD. NO ROAD SHALL BE CLOSED WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR OF ENGINEERING AND OPERATIONS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED MATERIAL UNSUITABLE FOR REUSE AT A SUITABLE OFF-SITE DISPOSAL AREA, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- 3. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO COMMENCING THE WORK.
- 4. THE CONTRACTOR SHALL ARRANGE FOR, AND COORDINATE THE WORKS DONE BY:
 - CITY OF COQUITLAM; AND
 - FRANCHISE UTILITIES (BC HYDRO, FORTIS GAS, BC TRANSMISSION CORP., SHAW CABLE, TELUS AND METRO VANCOUVER).
- 5. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PERSONNEL AT LEAST 72 HOURS PRIOR TO THE WORK. SCHEDULING AND OTHER CONSTRUCTION CONSTRAINTS IMPOSED BY THESE WORKS SHALL BE TAKEN INTO ACCOUNT.
- RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION OF THESE WORKS AND SERVICES SHALL BE GIVEN 5 DAYS WRITTEN NOTICE OF THE PROPOSED START OF CONSTRUCTION. THE CONTRACTOR IS TO DISTRIBUTE A NOTICE OF CONSTRUCTION LETTER TO ALL AFFECTED RESIDENTS AND BUSINESSES. FOLLOWING CONSTRUCTION ACTIVITY ON ANY PRIVATE PROPERTY, A WRITTEN RELEASE MAY BE REQUIRED FROM THE PROPERTY OWNER AT THE DISCRETION OF THE CITY.
- 7. A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 8. APPROVALS FOR REQUIRED TREE CUTTING OR TRIMMING NOT INDICATED IN CONTRACT DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR FROM THE CITY PRIOR TO WORK BEING PERFORMED.
- 9. CONTRACTOR TO OBTAIN APPROVED LANE CLOSURE REQUEST FORM FOR ALL WORKS. APPROVED REQUESTS ARE CIRCULATED TO ALL EMERGENCY SERVICES.
- 10. CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURE REQUEST FOR ALL MAJOR ROADS AND ANY LOCAL ROADS WHICH REQUIRE ANY DETOURS.
- 11. ALL TRAFFIC CONTROL TO CONFORM TO THE LATEST EDITION OF THE BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
- 12. APPROVAL OF NOISE VARIANCE FOR ALL WORK OUTSIDE OF NORMAL APPROVED WORK HOURS REQUIRED BY THE CITY.
- 13. NOTICE OF CONSTRUCTION SIGNS TO BE INSTALLED AT ALL PROJECT LIMITS AND PREFERRED DETOUR ROUTE. NOTIFY CONTRACT ADMINISTRATOR WITH CONSTRUCTION SCHEDULE AND LOCATIONS. SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR.
- 14. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETION OF ALL TAPED TEMPORARY AND PERMANENT PAINT AND THERMOPLASTIC PAVEMENT MARKINGS IN THE PLACE OF THE WORK. PERMANENT LANE MARKINGS ARE TO BE PLACED WITHIN SEVENTY-TWO (72) HOURS OF FINAL PAVING AND PERMANENT THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACED WITHIN FIVE (5) DAYS OF FINAL PAVING. ALL TEMPORARY MARKINGS TO BE REMOVED IMMEDIATELY FOLLOWING PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 15. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE TRAFFIC MANAGEMENT DETAILED SPECIFICATIONS IN THE CONTRACT DOCUMENTS.
- 16. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY RELOCATION OF BUS STOPS WITH COAST MOUNTAIN BUS COMPANY.
- 17. ALL TRAFFIC LOOPS TO BE REINSTATED.

ISSUED FOR TENDER DESIGN NO.

CJB

JULY - 2024 CJB

SCALE AS SHOWN

#503, 4190 Lougheed Hwy, Burnaby, B.C. V5C 6A8 T: (604)629-2696 F: (604)629-2698

DRAWN BY

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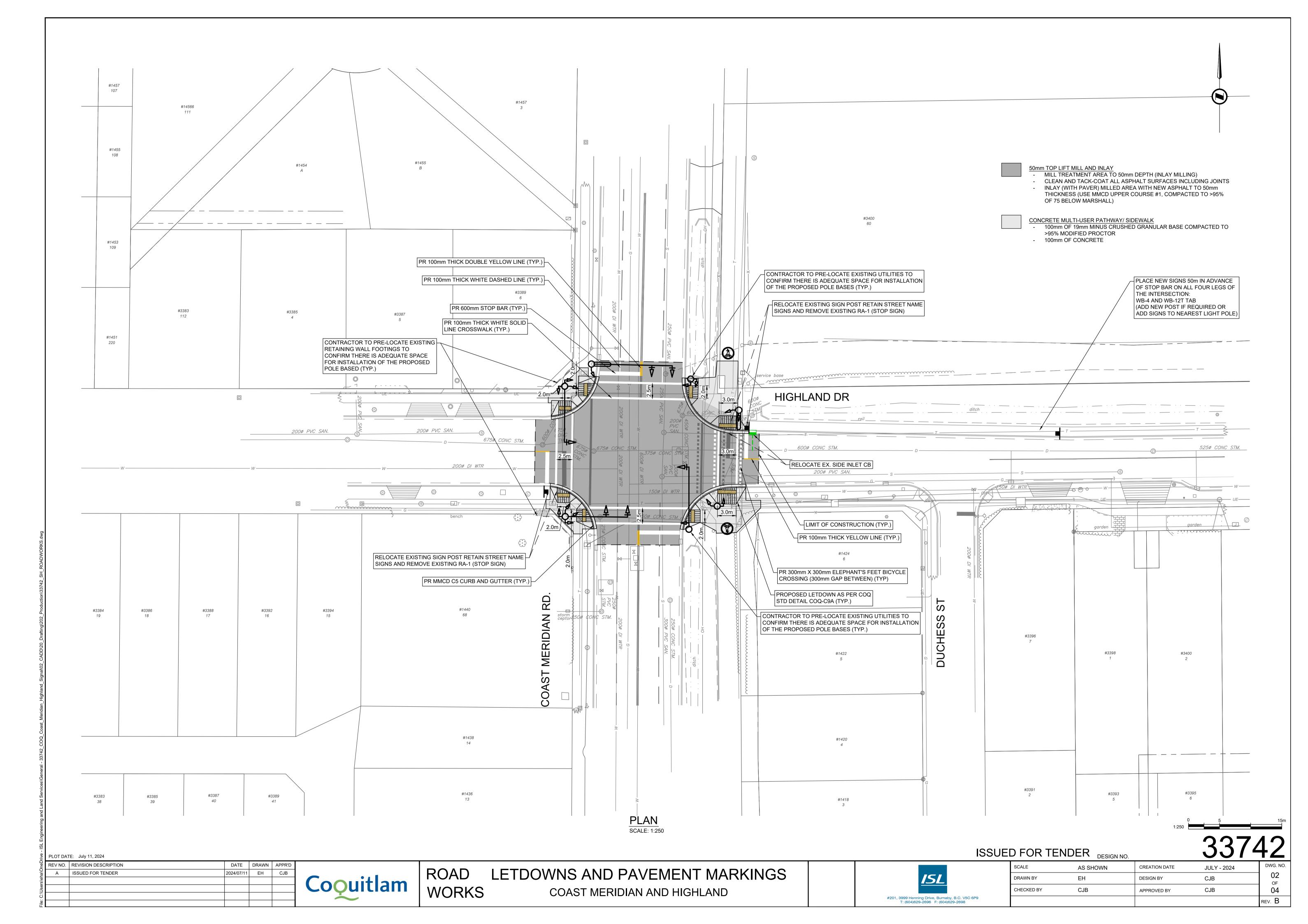
GENERAL NOTES COAST MERIDIAN AND HIGHLAND

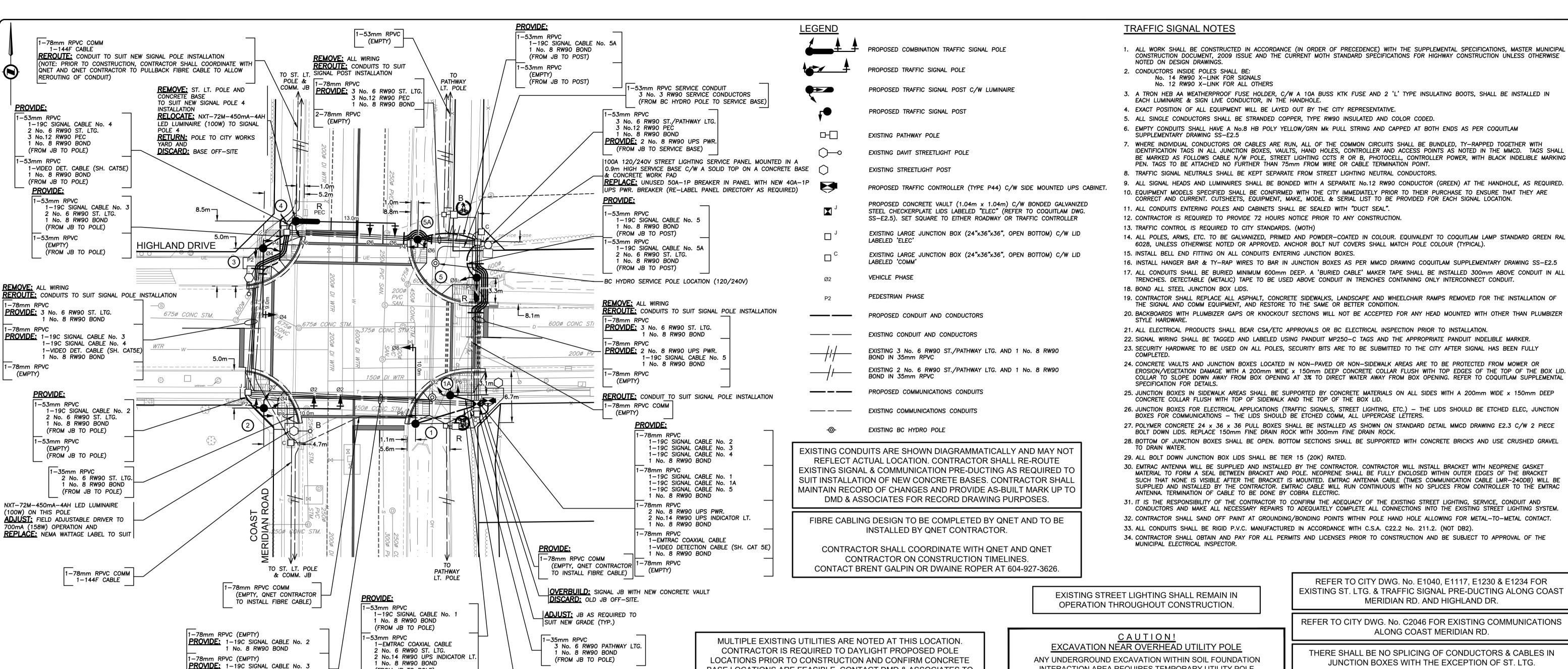
CJB

DATE

DESIGN BY

APPROVED BY





-53mm RPVC

-53mm RPVC

NEW

2

0

0

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0

0

1

1-19C SIGNAL CABLE No. 1A 1 No. 8 RW90 BOND

CURRENT(A)

1.53A

1.53A

0.23A

0.00A

1.50A

1.88A

0.83A

0.83A

0.98A

0.98A

2.25A

1.13A

1.32A

1.32A

HIGHLAND

DRIVE

Development Servicir

(FROM JB TO POLE)

(FROM JB TO POLE)

LIGHTS

2

1

0

5

2

TRAFFIC SIGNAL NOTES

- 1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE (IN ORDER OF PRECEDENCE) WITH THE SUPPLEMENTAL SPECIFICATIONS, MASTER MUNICIPAL CONSTRUCTION DOCUMENT, 2009 ISSUE AND THE CURRENT MOTH STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.
- 2. CONDUCTORS INSIDE POLES SHALL BE: No. 14 RW90 X-LINK FOR SIGNALS No. 12 RW90 X-LINK FOR ALL OTHERS
- 3. A TRON HEB AA WEATHERPROOF FUSE HOLDER, C/W A 10A BUSS KTK FUSE AND 2 'L' TYPE INSULATING BOOTS, SHALL BE INSTALLED IN EACH LUMINAIRE & SIGN LIVE CONDUCTOR, IN THE HANDHOLE.
- 4. EXACT POSITION OF ALL EQUIPMENT WILL BE LAYED OUT BY THE CITY REPRESENTATIVE. ALL SINGLE CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOR CODED.
- 6. EMPTY CONDUITS SHALL HAVE A No.8 HB POLY YELLOW/GRN MK PULL STRING AND CAPPED AT BOTH ENDS AS PER COQUITLAM
- SUPPLEMENTARY DRAWING SS-E2.5 WHERE INDIVIDUAL CONDUCTORS OR CABLES ARE RUN, ALL OF THE COMMON CIRCUITS SHALL BE BUNDLED, TY-RAPPED TOGETHER WITH IDENTIFICATION TAGS IN ALL JUNCTION BOXES, VAULTS, HAND HOLES, CONTROLLER AND ACCESS POINTS AS NOTED IN THE MMCD. TAGS SHALL
- PEN. TAGS TO BE ATTACHED NO FURTHER THAN 75mm FROM WIRE OR CABLE TERMINATION POINT. 8. TRAFFIC SIGNAL NEUTRALS SHALL BE KEPT SEPARATE FROM STREET LIGHTING NEUTRAL CONDUCTORS.
- 9. ALL SIGNAL HEADS AND LUMINAIRES SHALL BE BONDED WITH A SEPARATE No.12 RW90 CONDUCTOR (GREEN) AT THE HANDHOLE, AS REQUIRED. 10. EQUIPMENT MODELS SPECIFIED SHALL BE CONFIRMED WITH THE CITY IMMEDIATELY PRIOR TO THEIR PURCHASE TO ENSURE THAT THEY ARE
- CORRECT AND CURRENT. CUTSHEETS, EQUIPMENT, MAKE, MODEL & SERIAL LIST TO BE PROVIDED FOR EACH SIGNAL LOCATION. 11. ALL CONDUITS ENTERING POLES AND CABINETS SHALL BE SEALED WITH "DUCT SEAL".
- 12. CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION.
- 14. ALL POLES, ARMS, ETC. TO BE GALVANIZED, PRIMED AND POWDER-COATED IN COLOUR. EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN RAL
- 6028, UNLESS OTHERWISE NOTED OR APPROVED. ANCHOR BOLT NUT COVERS SHALL MATCH POLE COLOUR (TYPICAL). 15. INSTALL BELL END FITTING ON ALL CONDUITS ENTERING JUNCTION BOXES.
- 16. INSTALL HANGER BAR & TY-RAP WIRES TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING COQUITLAM SUPPLEMENTARY DRAWING SS-E2.5
- 17. ALL CONDUITS SHALL BE BURIED MINIMUM 600mm DEEP. A 'BURIED CABLE' MAKER TAPE SHALL BE INSTALLED 300mm ABOVE CONDUIT IN ALL TRENCHES. DETECTABLE (METALIC) TAPE TO BE USED ABOVE CONDUIT IN TRENCHES CONTAINING ONLY INTERCONNECT CONDUIT.
- 18. BOND ALL STEEL JUNCTION BOX LIDS. 19. CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS, LANDSCAPE AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF
- THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION. 20. BACKBOARDS WITH PLUMBIZER GAPS OR KNOCKOUT SECTIONS WILL NOT BE ACCEPTED FOR ANY HEAD MOUNTED WITH OTHER THAN PLUMBIZER
- 21. ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
- 22. SIGNAL WIRING SHALL BE TAGGED AND LABELED USING PANDUIT MP250-C TAGS AND THE APPROPRIATE PANDUIT INDELIBLE MARKER.
- 23. SECURITY HARDWARE TO BE USED ON ALL POLES, SECURITY BITS ARE TO BE SUBMITTED TO THE CITY AFTER SIGNAL HAS BEEN FULLY
- 24. CONCRETE VAULTS AND JUNCTION BOXES LOCATED IN NON-PAVED OR NON-SIDEWALK AREAS ARE TO BE PROTECTED FROM MOWER OR EROSION/VEGETATION DAMAGE WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP EDGES OF THE TOP OF THE BOX LID. COLLAR TO SLOPE DOWN AWAY FROM BOX OPENING AT 3% TO DIRECT WATER AWAY FROM BOX OPENING. REFER TO COQUITLAM SUPPLEMENTAL
- 25. JUNCTION BOXES IN SIDEWALK AREAS SHALL BE SUPPORTED BY CONCRETE MATERIALS ON ALL SIDES WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP OF SIDEWALK AND THE TOP OF THE BOX LID.
- 26. JUNCTION BOXES FOR ELECTRICAL APPLICATIONS (TRAFFIC SIGNALS, STREET LIGHTING, ETC.) THE LIDS SHOULD BE ETCHED ELEC, JUNCTION BOXES FOR COMMUNICATIONS — THE LIDS SHOULD BE ETCHED COMM, ALL UPPERCASE LETTERS.
- 27. POLYMER CONCRETE 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W 2 PIECE BOLT DOWN LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
- 28. BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL
- 29. ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.
- 30. EMTRAC ANTENNA WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL BRACKET WITH NEOPRENE GASKET MATERIAL TO FORM A SEAL BETWEEN BRACKET AND POLE. NEOPRENE SHALL BE FULLY ENCLOSED WITHIN OUTER EDGES OF THE BRACKET SUCH THAT NONE IS VISIBLE AFTER THE BRACKET IS MOUNTED. EMTRAC ANTENNA CABLE (TIMES COMMUNICATION CABLE LMR-240DB) WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. EMTRAC CABLE WILL RUN CONTINUOUS WITH NO SPLICES FROM CONTROLLER TO THE EMTRAC ANTENNA. TERMINATION OF CABLE TO BE DONE BY COBRA ELECTRIC.
- 31. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE ADEQUACY OF THE EXISTING STREET LIGHTING, SERVICE, CONDUIT AND CONDUCTORS AND MAKE ALL NECESSARY REPAIRS TO ADEQUATELY COMPLETE ALL CONNECTIONS INTO THE EXISTING STREET LIGHTING SYSTEM.
- 32. CONTRACTOR SHALL SAND OFF PAINT AT GROUNDING/BONDING POINTS WITHIN POLE HAND HOLE ALLOWING FOR METAL—TO—METAL CONTACT. 33. ALL CONDUITS SHALL BE RIGID P.V.C. MANUFACTURED IN ACCORDANCE WITH C.S.A. C22.2 No. 211.2. (NOT DB2).
- 34. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES PRIOR TO CONSTRUCTION AND BE SUBJECT TO APPROVAL OF THE MUNICIPAL ELECTRICAL INSPECTOR.

EXISTING STREET LIGHTING SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION

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

LOCATING EQUIPMENT

CONTACT workmethods@bchydro.com

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.

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

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.

2024-05-10

REFER TO CITY DWG. No. E1040. E1117. E1230 & E1234 FOR EXISTING ST. LTG. & TRAFFIC SIGNAL PRE-DUCTING ALONG COAST MERIDIAN RD. AND HIGHLAND DR.

REFER TO CITY DWG. No. C2046 FOR EXISTING COMMUNICATIONS ALONG COAST MERIDIAN RD.

THERE SHALL BE NO SPLICING OF CONDUCTORS & CABLES IN JUNCTION BOXES WITH THE EXCEPTION OF ST. LTG.

THE CONTRACTOR SHALL COORDINATE ALL TERMINATION IN THE TRAFFIC CONTROLLER WITH THE CITY

REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCTS LIST FOR ALL EQUIPMENT DETAILS

THE CITY OF COQUITLAM SHALL BE RESPONSIBLE FOR PROGRAMMING THE TRAFFIC SIGNAL CONTRACTOR SHALL PROVIDE THE CITY 3 WEEKS NOTICE IN ADVANCE OF WORK BEING REQUIRED.

ALL COST RELATED TO THIS WORK WILL BE BORNE BY THE CITY CONTRACTOR SHALL OBTAIN A COPY OF THE CITY OF COQUITLAM TRAFFIC SIGNAL AND ROADWAY SUPPLEMENTAL SPECIFICATIONS

PRIOR TO CONSTRUCTION

DO NOT USE THIS DRAWING FOR PAVEMENT MARKINGS.

ALL JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE DIAGRAMMATIC AND ARE NOT TO SCALE. CONTRACTOR TO AVOID UNDERGROUND CONFLICTS

AND NOT INSTALL ANYTHING ON PRIVATE PROPERTY



COQ. ASBUILT No. EXXXX

Benchmark: DMD **DMD & Associates Electrical Consultants Ltd.** Contractor to contact Telus, BC Hydro, FortisBC and BC one call #12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3 prior to construction to confirm locations of utilities and

* BASE ON A 20-YEAR FIXTURE LIFE, 10-YEAR CLEANING CYCLE AND LENS OPTIC DEPRECIATION OF 4%

1 | 2024-07-12 | DIS | ISSUED FOR TENDER 2024-05-10 DIS FIRST SUBMISSION Date By Revisions

120V SERVICE LOAD

(EXIST. 100A - 120/240V SERVICE PANEL ON NORTHEAST QUADRANT OF COAST

MEDIAN ROAD AND HIGHLAND DRIVE INTERSECTION CCTS. 2 & 4)

REMOVED

0

0

0

0

0

0

0

0

0

0

0

1.23% VOLTAGE DROP

EXISTING

0

0

0

4

5

2

2

1

2

1

0

(FROM JB TO POLE)

SITE PLAN

WATTAGE (W) CCT.PHASE

В

R

В

R

В

R

В

R

В

R

В

R

В

92W (LED) ST. NAME

SIGN

28W (LED)

45W (LED)

100W (LED

117W (LED)

135W (LED)

158W (LED)

1-19C SIGNAL CABLE No. 4

0.82

MODEL: NXT-24S-350mA-2ES-3000K

MODEL: NXT-24S-350mA-2ES-4000K

MODEL: NXT-72M-450mA-4AH-4000K

MODEL: NXT-72M-700mA-4AH-4000K

office@dmdena.com

1 No. 8 RW90 BOND

1-78mm RPVC (EMPTY)

COAST MERIDIAN ROAD

RESIDENTIAL

ARTERIAL-14.0m

MEDIUM

22.0 LUX

3.0:1

MTG. HEIGHT: 6.0m

MTG. HEIGHT: 6.5m

MTG. HEIGHT: 7.5m

MTG. HEIGHT: 11.0m

INTERSECTION DESIGN CRITERIA

PER: (CITY BYLAW 3558)

INTERSECTION (NAME)

LIGHT LOSS FACTOR

FIXTURE TYPE: LED

FIXTURE TYPE: LED

FIXTURE TYPE: LED

appurtenances requiring adjustment.

Plot Date: July 12, 2024

EQUIPMENT

IES FILE:

IES FILE:

IES FILE:

IES FILE:

LAND USE CLASSIFICATION

PEDESTRIAN ACTIVITY LEVEL

ROADWAY CLASSIFICATION & WIDTH

ILLUMINANCE RECOMMENDED/DELIVERED

UNIFORMITY RECOMMENDED/DELIVERED

FIXTURE TYPE: LED WATTAGE: 28W

NXT-24S-350mA-2ES-3000K.ies

NXT-24S-350mA-2ES-4000K.ies

NXT-72M-450mA-4AH-4000K.ies

NXT-72M-700mA-4AH-4000K.ies

WATTAGE: 28W

WATTAGE: 100W

WATTAGE: 158W

** PATHWAY LIGHT CONTRIBUTION NOT INCLUDED IN CALCULATIONS.

1-VIDEO DET. CABLE (SH. CAT5E)

HIGHLAND DRIVE

RESIDENTIAL

COLLECTOR-11.0m

LOW

22.7 LUX

2.2:1

DIST TYPE: 2ES

DIST TYPE: 2ES

DIST TYPE: 4AH

DIST TYPE: 4AH

DMD PROJECT No. 8094-24-01 of 02

Fax 604/589-9012

ACCEPTED FOR CONSTRUCTION Coouitlam Engineering & Public Works Manager of 3000 Guildford Way, Coquitlam, B.C. V3B 7N2 PERMIT TO PRACTICE 2024-07-12 PERMIT NUMBER: 1000771 The Association of Professional Engineers

and Geoscientists of British Columbia

BASE LOCATIONS ARE FEASIBLE. CONTACT DMD & ASSOCIATES TO

COORDINATE IF LOCATION CHANGES ARE REQUIRED.

ALL EQUIPMENT IS EXISTING

EXCEPT WHERE NOTED

← - - P4 -

✓—Ø4)—

NOT FOR CONSTRUCTION

SIGNAL DISPLAY

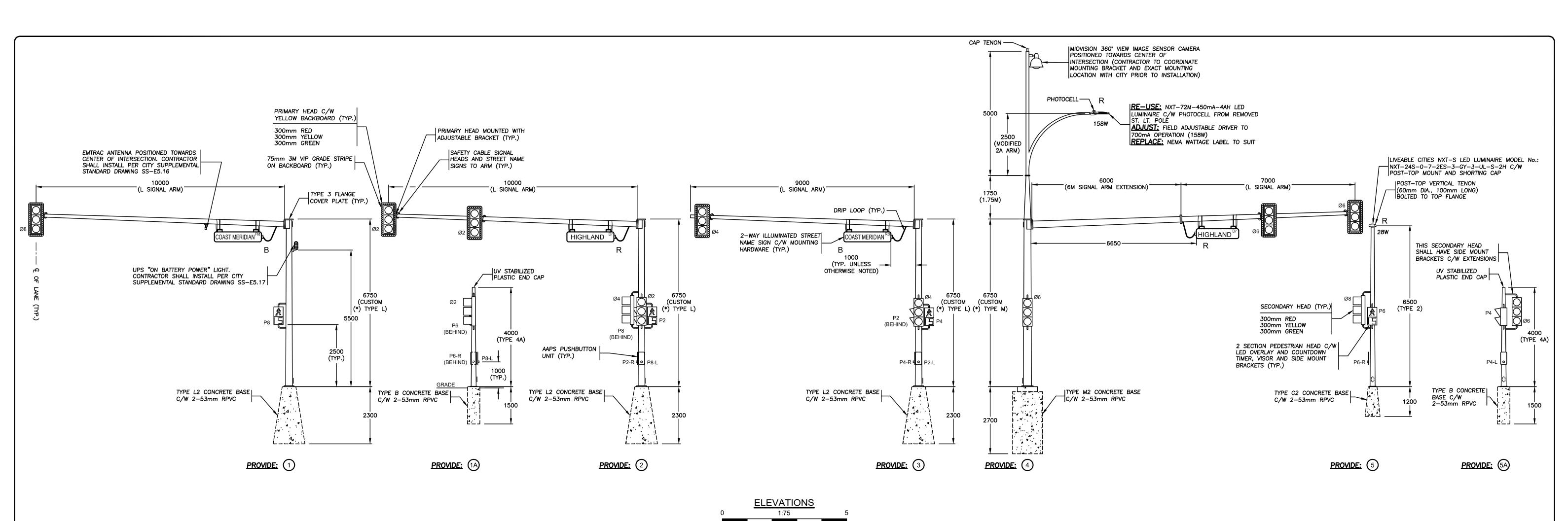
COAST MERIDIA ROAD

2024-05-10 1:250 Sheet of Drawn by Date 2024-05-10 03 OF 04 Eng. Project No. Checked by 2024-05-10 79050 Date Approved by

COAST MERIDIAN ROAD AND HIGHLAND DRIVE

TRAFFIC SIGNAL

File: 8094-24 SITE PLAN, LEGEND AND NOTES



ALL SIGNAL AND PEDESTRIAN

DISPLAYS SHALL BE LED

THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING MATERIALS. REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCT LIST <u>AND</u> CONTACT BERNARD TUNG 604-927-6257 AT THE CITY OF COQUITLAM TRAFFIC DEPARTMENT FOR SPECIFIC MATERIAL DETAILS PRIOR TO ORDERING:

- 1) TRAFFIC CONTROLLER & CABINET C/W 3M GRAPHIC WRAP, COORDINATE DESIGN WITH THE CITY OF COQUITLAM
- 2) BOLT-ON UPS SYSTEM & CABINET C/W 3M GRAPHIC WRAP, COORDINATE DESIGN WITH THE CITY OF COQUITLAM
- 3) FIBRE OPTIC SWITCH, REFER TO CITY OF COQUITLAM APPROVED PRODUCT LIST
- 4) FIBRE OPTIC CABLE, SPLICE CLOSURE, AND TERMINATION FOR CONTROLLER CABINET, SUPPLIED AND INSTALLED BY FIBRE OPTIC CONTRACTOR, COORDINATE WITH QNET RERESENTATIVE
- 5) MIOVISION EQUIPMENT C/W MOUNTING BRACKET AND CABLE
- 6) EMTRAC ANTENNA, MOUNTING BRACKET AND CABLING (TERMINATIONS TO BE COMPLETED BY COBRA ELECTRIC)
- 7) POLARA NAVIGATOR iDS2 SYSTEM
- 8) ILLUMINATED STREET NAME SIGNS C/W MOUNTING HARDWARE

CONTRACTOR SHALL HIRE COBRA ELECTRIC TO COMPLETE THE EMTRAC CABLE TERMINATION. ALL COSTS SHALL BE BORNE BY THE CITY

CONTRACTOR WILL DELIVER CONTROLLER & UPS CABINETS, ALL CONTROLLER EQUIPMENT, EMTRAC PRE-EMPTION SYSTEM, VIDEO DETECTION SYSTEM AND POLARA SYSTEM TO THE CITY OF COQUITLAM FOR TESTING AND PROGRAMMING. UPON COMPLETION THE CONTRACTOR WILL PICK UP AND INSTALL EQUIPMENT AT SITE.

ON SITE CONTROLLER START UP AND COMMISSIONING WILL BE DONE BY THE CITY OF COQUITLAM TRAFFIC OPS STAFF, AND THE CONTRACTOR. (CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, QUALIFIED ELECTRICIAN(S) AND BUCKET TRUCK) ALL COSTS FOR THIS WORK SHALL BE BORNE BY THE CITY

NEW POLES DENOTED WITH (*) ARE TO BE CUSTOM. POLE LOADING ANALYSIS MUST BE COMPLETED BY THE POLE MANUFACTURER TO ENSURE POLE(S) ARE CHECKED FOR FATIGUE AND FATIGUE LOADING IN COMPLIANCE WITH CAN/CSA-S6-19 AND AASHTO 2013 SECTION 11 STANDARDS. CONTRACTOR IS REQUIRED TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ALL NEW POLE(S).

ALL SIGNAL DISPLAY SHALL

HAVE TUNNEL VISORS

ALL CONCRETE BASES SHALL HAVE ANCHOR BOLT PROJECTION CONFIRMED AGAINST CUSTOM SIGNAL POLES TO ENSURE THEY PROTRUDE FAR ENOUGH OUT OF THE CONCRETE BASE.

REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCTS LIST FOR ALL EQUIPMENT DETAILS

THE CITY OF COQUITLAM SHALL BE RESPONSIBLE FOR PROGRAMMING THE TRAFFIC SIGNAL.

CONTRACTOR SHALL PROVIDE THE CITY 3 WEEKS NOTICE IN ADVANCE OF WORK BEING REQUIRED.

ALL COST RELATED TO THIS WORK WILL BE BORNE BY THE CITY.

THE CONTRACTOR SHALL COORDINATE ALL TERMINATIONS IN THE TRAFFIC CONTROLLER WITH THE CITY

CONTRACTOR SHALL OBTAIN A COPY OF THE CITY OF COQUITLAM TRAFFIC SIGNAL AND ROADWAY SUPPLEMENTAL SPECIFICATIONS PRIOR TO CONSTRUCTION.

USE CONDUCTOR #7 FOR SECONDARY PB RETURN. TAPE WHITE IN HANDHOLE AND CONTROLLER CABINET

	CONDUCTOR COL (FROM HANDHOLE	
ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
ø2	RED YELLOW GREEN	RED YELLOW BLUE
ø 4	RED YELLOW GREEN	RED BROWN BLUE
ø6	RED YELLOW GREEN	RED YELLOW (RED T.T.) BLUE
ø8	RED YELLOW GREEN	RED BROWN (ORANGE T.T.) BLUE
P2	DON'T WALK WALK PUSH BUTTON	YELLOW BLUE PURPLE/PURPLE (YELLOW T.T.)
P4	DON'T WALK WALK PUSH BUTTON	BROWN BLUE PURPLE/PURPLE (BTOWN T.T.)
P6	DON'T WALK WALK PUSH BUTTON	YELLOW (RED T.T.) BLUE PURPLE/PURPLE (RED T.T.)
P8	DON'T WALK WALK PUSH BUTTON	BROWN (ORANGE T.T.) BLUE PURPLE/PURPLE (ORANGE T.T.)
ITEM	CIRCUITS	CONDUCTOR COLOUR
SIGNAL NEUTRAL	NEUTRAL	WHITE
CONTROLLER/UPS	POWER	BLACK
STREET LIGHTING	POWER POWER	BLACK RED
PANEL SUPPLY	POWER POWER	BLACK RED
PHOTOCELL	POWER	BLACK
THOTOGELL	SWITCH LEG	RED
NEUTRAL	NEUTRAL	WHITE
GROUND/BOND	GROUND/BOND	GREEN

NOT FOR CONSTRUCTION
2024-07-12

ELLOTRION WI(C) / WIND BOOKET TROOKI, / ALL GOOTOT GIV THIS WORKE		
Benchmark:	DMD & Associates	
Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.	DMD & Associates Electrical Consultants Ltd. #12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3 www.dmdeng.com 604/589-9010 office@dmdeng.com Fax 604/589-9012	

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PERMIT TO PRACTICE			
Signa	ture:		
Date:_	2024-07-12		
	PERMIT NUMBER: 1000771 The Association of Professional Engineers		

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COAST MERIDIAN ROAD
AND HIGHLAND DRIVE

Description TRAFFIC SIGNAL
File: 8094-24 ELEVATIONS

Plot Date: July 12, 2024