

CITY OF COQUITLAM

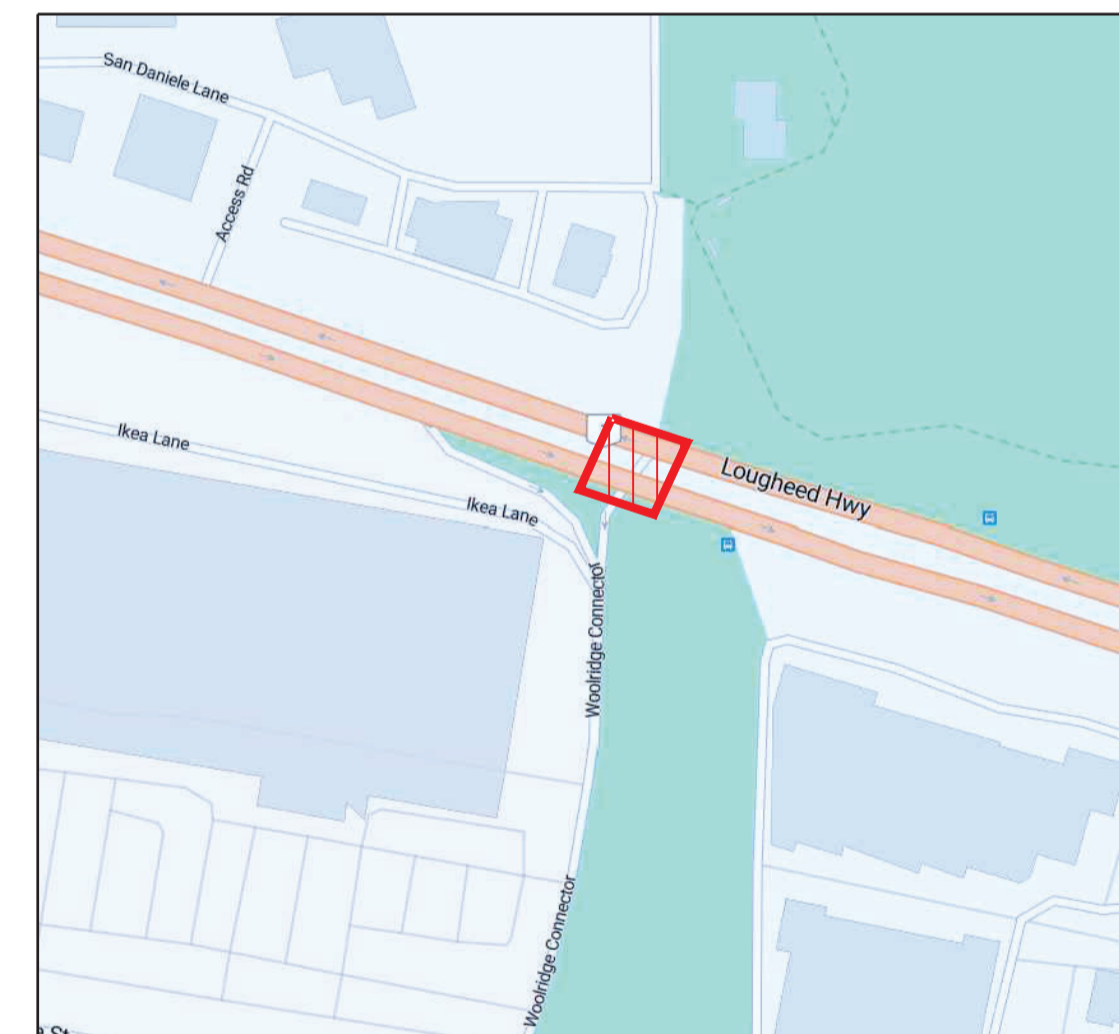
3000 GUILDFORD WAY, COQUITLAM, BC V3B 7N2

CLARKE-GLENAYRE AND LOUGHEED-WOOLRIDGE CONNECTOR

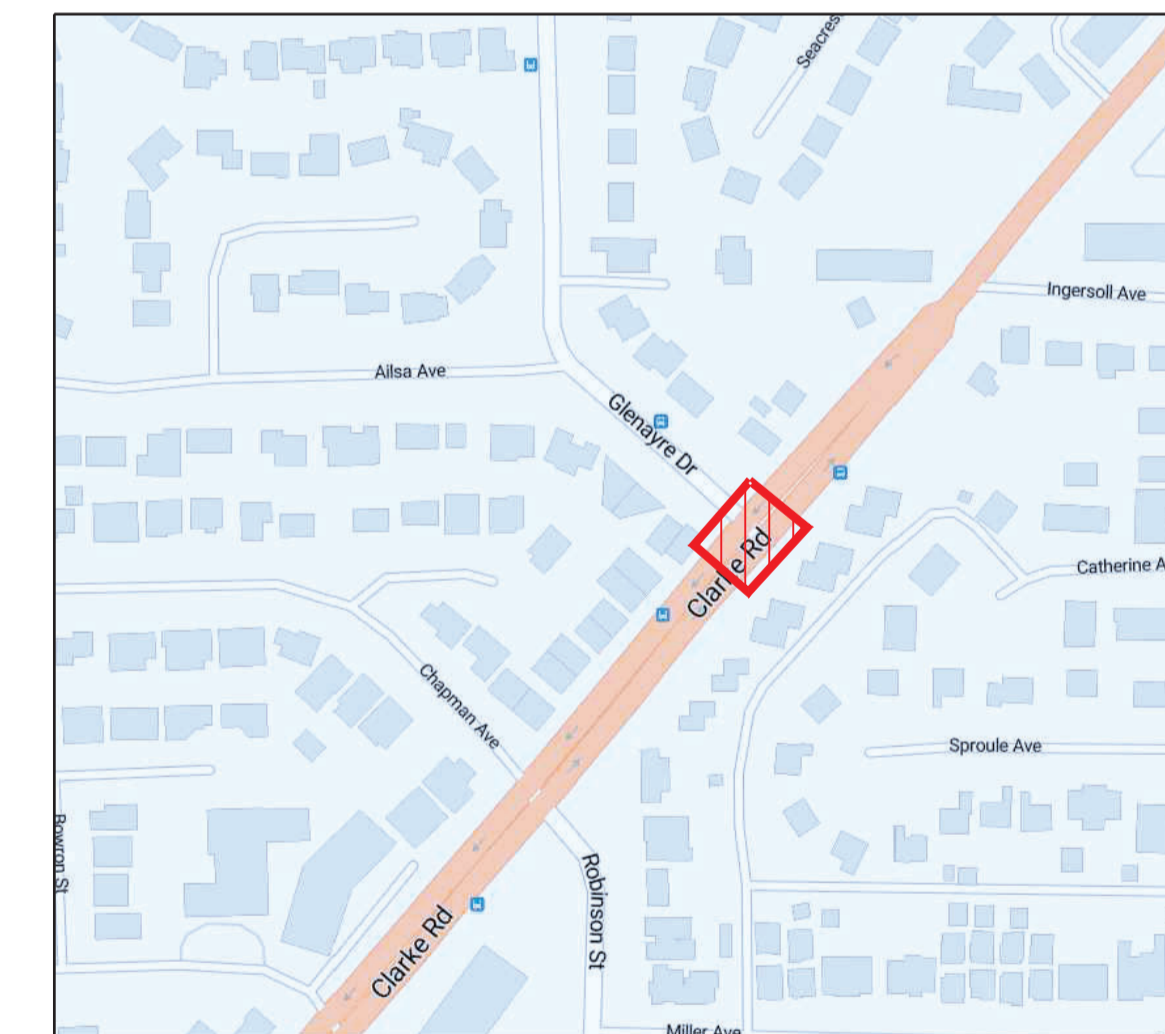
TRAFFIC SIGNAL IMPROVEMENTS

ISSUED FOR TENDER

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN			BUILDING
		EDGE OF PAVEMENT			CURB AND GUTTER
		SANITARY FORCE MAIN			COMBINED SEWER
		SANITARY SEWER			SANITARY CONNECTION AND INSPECTION CHAMBER
		STORM SEWER			STORM CONNECTION AND INSPECTION CHAMBER
		CATCH BASIN / LAWN BASIN LEAD			FRENCH DRAIN
		STORM SEWER AND CLEANOUT			CATCH BASIN - TOP INLET AND SIDE INLET
		LAWN DRAIN			CATCH BASIN MANHOLE
		SWALE			DITCH
		SIDEWALK (ASPHALT)			SIDEWALK (CONCRETE)
		RETAINING WALL			TOP OF SLOPE
		BOTTOM OF SLOPE			GROUND ELEVATION
		WATERMAIN			WATER SERVICE CONNECTION
		WATERMAIN GATE VALVE			WATERMAIN AIR VALVE
		HYDRANT AND VALVE ASSEMBLY			WATERMAIN CAPPED END
		WATER METER			WATERMAIN BLOW-OFF
		CATHODIC PROTECTION ANODE			IRRIGATION SPRINKLER HEAD
		IRRIGATION JUNCTION BOX			TELECOM, UNDERGROUND DUCTS AND MANHOLE
		STREET LIGHT UNDERGROUND DUCTS AND MANHOLE			GASMAIN AND GAS VALVE
		TRAFFIC SIGNAL UNDERGROUND DUCTS			HYDRO UNDERGROUND DUCTS AND MANHOLE
		CABLE TV UNDERGROUND DUCTS			ORNAMENTAL STREET LIGHT - DAVIT
		ORNAMENTAL STREET LIGHT - POST TOP			UTILITY POLE WITH ANCHOR
		UTILITY POLE WITH LIGHT			JUNCTION BOX
		TRAFFIC SIGNAL			ROAD/TRAFFIC SIGN



SITE MAP
Scale: N.T.S.



SITE MAP
Scale: N.T.S.

DRAWING INDEX		
SHEET #	DRAWING NUMBER	DRAWING DESCRIPTION
01	25-0958-N1	GENERAL NOTES
02	25-0958-KP1	KEY PLAN LOUGHEED-WOOLRIDGE
03	25-0958-KP2	KEY PLAN CLARKE-GLENAYRE
04	25-0958-PM1	PAVEMENT MARKING AND SIGNAGE
05	25-0958-DET1	DETAILS

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CGVD28
STN. 1
3.879M

GENERAL CONSTRUCTION NOTES

- ALL MATERIALS SUPPLIED AND CONSTRUCTION PERFORMED SHALL BE IN ACCORDANCE WITH THE CITY OF COQUITLAM DESIGN CRITERIA, THE LATEST EDITION OF WORKSAFE BC, THE MASTER MUNICIPAL CONTRACT DOCUMENTS (MMCD) - 2009 EDITION (PLATINUM BOOK), AND ANY OTHER APPLICABLE DESIGN CRITERIA, SPECIFICATIONS, STANDARD DRAWINGS, AND CONSTRUCTION SPECIFICATIONS.
- ALL MATERIAL TESTING MUST BE DONE IN ACCORDANCE WITH THE MMCD. TESTING TO BE CARRIED OUT BY QUALIFIED MATERIAL TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR IS TO PROVIDE COPIES OF ALL TEST RESULTS TO THE CONTRACT ADMINISTRATOR (CA). THE CONTRACTOR IS TO NOTIFY THE CA 48 HOURS PRIOR TO CONSTRUCTION AND VERIFY THEY HAVE THE LATEST DRAWINGS ISSUED FOR CONSTRUCTION. COPIES OF THE MMCD CAN BE OBTAINED AT MASTER MUNICIPAL CONSTRUCTION DOCUMENTS ASSOCIATION (MMCDA), 102-211 COLUMBIA STREET, VANCOUVER, BC V6B 2R5.
- THE CONTRACTOR IS TO NOTIFY THE CA AT THE FOLLOWING STAGES OF THE CONSTRUCTION SCHEDULE:
 - DELIVERY OF STORM SEWER MATERIAL TO SITE.
 - DELIVERY OF SANITARY SEWER MATERIALS TO SITE.
 - DELIVERY OF WATER WORKS MATERIALS TO SITE.
 - INITIAL INSTALLATION OF STORM SEWER, SANITARY SEWER, AND WATER WORKS CONSTRUCTION PRIOR TO BACKFILLING.
 - GRADING OF ROAD SURFACES PRIOR TO PAVING.
- THE CONTRACTOR IS TO NOTIFY THE CITY OF COQUITLAM ENGINEERING DEPARTMENT 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN THE ROAD ALLOWANCES AND RIGHTS-OF-WAYS.
- ALL WORK SHALL PASS THE INSPECTION OF THE ENGINEERING DEPARTMENT OF THE CITY OF COQUITLAM.
- THE CONTRACTOR SHALL HAVE COMPLETE CONTROL OF THE WORK AND SHALL EFFECTIVELY DIRECT AND SUPERVISE THE WORK SO AS TO ENSURE CONFORMANCE WITH THE CONTRACT DOCUMENTS, SUBJECT TO THE OWNER'S RIGHTS AS SPECIFICALLY SET OUT IN THE CONTRACT DOCUMENTS TO GIVE DIRECTIONS REGARDING WORK, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN THE WORK IN A TIDY CONDITION AND FREE FROM THE ACCUMULATION OF WASTE, DEBRIS, AND WASTE PRODUCTS, OTHER THAN THAT CAUSED BY THE OWNER OR ITS EMPLOYEES.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY AT THE PLACE OF WORK AS AND TO THE EXTENT REQUIRED BY APPLICABLE CONSTRUCTION SAFETY LEGISLATION, REGULATIONS AND CODES, INCLUDING THE WORKERS COMPENSATION ACT AND APPLICABLE REGULATIONS, AND BY GOOD CONSTRUCTION PRACTICE.
- THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- WORKSAFE B.C. IS TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DESIGN DRAWINGS, ARE APPROXIMATE ONLY AND THIS INFORMATION MAY NOT BE FULLY ACCURATE OR COMPLETE. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING UTILITIES AT ALL TIE-IN POINTS, AT ALL POINTS WHERE A CONFLICT MAY ARISE DURING THE CONSTRUCTION OF THE PROPOSED WORKS, AND TO CONFIRM DESIGN ELEVATIONS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE CA FOR DIRECTIONS. THE CONTRACTOR SHALL ASSUME ALL COSTS AND EXPENSES THAT MAY OCCUR FOR DAMAGES, SUPPORT OF AND REPAIR TO SUCH PLANT BY REASON OF THE NEGLIGENCE OF HIS OPERATIONS. (EXISTING UTILITIES SHOWN ARE DERIVED FROM AS-BUILT INFORMATION AND ALL UTILITIES MAY NOT BE NECESSARILY SHOWN).
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE. THIS MAY INCLUDE DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED BY CONSTRUCTION ACTIVITIES.
- ALL CONSTRUCTION IN AND ABOUT A WATERCOURSE MUST RECEIVE PRIOR APPROVAL FROM THE PROVINCIAL MINISTRY OF ENVIRONMENT AND/OR THE FEDERAL DEPARTMENT OF FISHERIES AND OCEANS WHERE APPLICABLE.
- ALL ASPHALT CUTS SHALL BE STRAIGHT WITH VERTICAL CLEAN EDGES SO THAT THE ASPHALT SURFACE MAY BREAK EVENLY AND CLEANLY. THE EDGE OF PAVEMENT SHALL BE SAWCUT AND KEYED TO FORM A MINIMUM 200mm WIDE LAP JOINT WITH THE PROPOSED PAVEMENT UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE CA.
- EXISTING UNDERGROUND UTILITY TRENCHES ADJACENT TO THE PROPOSED UNDERGROUND UTILITY INSTALLATION SHALL BE ADEQUATELY PROTECTED FROM SLOUGHING IN ORDER TO PREVENT OVER-WIDTH EXCAVATION.
- THE CONTRACTOR SHALL RESTORE THE EXISTING PAVEMENT ACROSS ALL TRENCH EXCAVATIONS TO ORIGINAL CONDITION OR BETTER AND THE FINISHED PAVEMENT SHALL BLEND IN SMOOTHLY WITH THE EXISTING PAVEMENT. THE EDGE OF PAVEMENT SHALL BE SAWCUT AND KEYED TO FORM A MINIMUM 200mm WIDE X 35mm DEEP LAP JOINT WITH THE PROPOSED PAVEMENT UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE CA.
- THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR EXISTING SERVICES AND ANY SERVICES DISTURBED ARE TO BE REPLACED TO THE SATISFACTION OF THE CITY OF COQUITLAM OR OTHER APPROVING AGENCIES.
- ANY MATERIAL SUBSTITUTION AND/OR CHANGE IN DESIGN MUST OBTAIN WRITTEN APPROVAL FROM THE CA PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CITY SHALL BE NOTIFIED OF ANY SUBSTITUTION AND/OR CHANGE IN DESIGN. ANY CHANGE IN DESIGN WILL REQUIRE A DRAWING REVISION.
- ALL SURVEY MONUMENTS, BENCHMARKS, AND LEGAL PINS MUST BE PROTECTED AND ANY DAMAGE CAUSED BY THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING IMPROVEMENTS INCLUDING EXISTING LANDSCAPING, FENCES, SIDEWALKS, RETAINING WALLS, ETC. SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OF COQUITLAM. THE CITY OF COQUITLAM MAY REQUIRE WRITTEN ACCEPTANCE BY THE AFFECTED PROPERTY OWNERS FOR RESTORATION WORKS PERFORMED BY THE CONTRACTOR.
- FOR LANDSCAPING DETAILS AND DIMENSIONS, REFER TO THE LANDSCAPE DESIGN DRAWINGS PREPARED BY THE LANDSCAPING CONSULTANT.
- JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES & COVERS WITHIN THE PAVED ROADWAY TO BE LEFT LOW AT BASE LEVEL AT THE TIME OF BASE LIFT ASPHALT AND RAISED JUST PRIOR TO THE FINAL LIFT OF PAVING.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNERS FOR A TEMPORARY ENCROACHMENT ON PRIVATE PROPERTY.
- ALL PAVEMENT MARKINGS, LINE PAINTING, DIRECTIONAL LINES/ARROWS/SIGNAGE ETC. SHALL BE PLACED IN ACCORDANCE WITH THE DESIGN DRAWINGS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING THE NECESSARY FIELD SURVEYS TO PERMIT THE LAYOUT, CONSTRUCTION AND MEASUREMENT OF QUANTITIES OF THE WORK FOR PAYMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS FIELD SURVEY, WHICH IS DEEMED TO BE INCLUDED IN THE UNIT PRICES TENDERED FOR THE ITEMS IN THE SCHEDULE OF QUANTITIES AND PRICES. THE CA WILL PROVIDE THE CONTRACTOR WITH CAD FILE WHICH CONTAINS HORIZONTAL AND VERTICAL SURVEY CONTROLS.
- THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING TRAFFIC CONTROL, SIGNAGE, DELINEATORS, BARRICADES, AND OTHER MISCELLANEOUS WARNING DEVICES AS REQUIRED TO MAINTAIN VEHICLE AND PEDESTRIAN FLOW AND FOR EMERGENCY VEHICLE ACCESS.
- CONTACT COQUITLAM ENGINEERING DEPT. MIN. 48HRS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR WORKS INSPECTOR.
- ALL EXCAVATION WITHIN EXISTING TREE DRIP LINES TO BE BY HAND OR HYDRO-VAC.

- THE CONTRACTOR SHALL KEEP PROPER AS BUILT INFORMATION DURING CONSTRUCTION AND SUBMIT THE INFORMATION TO THE CONTRACT ADMINISTRATOR PRIOR TO THE REQUEST OF SUBSTANTIAL COMPLETION CERTIFICATE. THE CONTRACTOR SHALL PROVIDE TO THE CA ONE (1) SET OF AS-CONSTRUCTED SITE GRADING, SITE SERVICING, AND SITE ELECTRICAL DRAWINGS SHOWING THE LOCATION AND ELEVATION OF ALL NEW AND EXISTING WORKS ENCOUNTERED ON THE PROJECT.
- THE CONTRACTOR SHOULD KEEP RECORDS AND/OR PHOTOS OF EXISTING ROCK WALLS, TREES, DRIVEWAYS AND WALKWAYS WHERE REQUIRED FOR GENERAL CONSTRUCTION NOTES #20 AND #32.
- THE CONTRACTOR IS ADVISED TO REVIEW THE ELECTRICAL DESIGN DRAWINGS FOR COORDINATION AND INSTALLATION OF ELECTRICAL DUCT WORK AND FACILITIES.
- ALL TREES DESIGNATED TO BE SAVED ARE TO BE PROTECTED BY SNOW FENCING.

ROADWORKS NOTES

- SUBGRADE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO AT LEAST 95% OF THEIR MODIFIED PROCTOR DRY DENSITY UNLESS NOTED OTHERWISE.
- ALL LOOSE AND ORGANIC MATERIAL SHALL BE EXCAVATED AND REMOVED FROM THE ROADWAY.
- THE ROAD BASE SHALL EXTEND A MINIMUM OF 300mm BEYOND THE SIDEWALK AND/OR CURB AND GUTTER, WHICHEVER IS GREATER AND FILLED TO THE LEVEL OF THE SIDEWALK OR CURB FOR SUPPORT.
- THE CRUSHED GRANULAR BASE COURSE SHALL BE PROOF-ROLLED OR TESTED IN ANOTHER APPROVED MANNER PRIOR TO THE PLACEMENT OF THE PROPOSED CONCRETE CURB AND GUTTER AND ROAD PAVEMENT.
- THE PROPOSED PAVEMENT STRUCTURE SHALL BE AS DESIGNATED BY THE ROADWORKS DESIGN DRAWINGS.
- ALL VALVE BOXES, MANHOLES, JUNCTION BOXES, ETC. WITHIN THE ROAD RIGHT OF WAY SHALL BE ADJUSTED TO FINISHED GRADE UNLESS NOTED OTHERWISE.
- THE ADJUSTMENT OF MANHOLES, VALVE COVERS, AND ALL OTHER APPURTENANCES TO SUIT NEW ASPHALT GRADES IS INCIDENTAL TO ASPHALT PAVING UNLESS OTHERWISE SPECIFIED IN SCHEDULE OF QUANTITIES AND PRICES (TYP.).
- CONTRACTOR TO REPLACE ALL MANHOLE FRAMES AND LIDS, WATER VALVE BOXES AND COVERS, AND GAS VALVE BOXES AND COVERS WITHIN THE ROADWAY AS DIRECTED BY CA.
- LOCATIONS OF DRIVEWAYS, WHEELCHAIR RAMPS, ETC. SHALL BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION OF THE PROPOSED CONCRETE CURB AND GUTTER.
- DRIVEWAY CROSSINGS SHALL BE INSTALLED PER THE DETAILS ON THE ROADWORKS DESIGN DRAWINGS, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
- CHANGES IN GRADE SHALL BE FORMED WITH SMOOTH CURVES.
- THE CONTRACTOR SHALL SAWCUT THE EXISTING PAVEMENT WHERE INDICATED ON THE DRAWING OR AS DIRECTED BY THE CA.
- CATCH BASIN RIM ELEVATIONS SHALL BE SET 30mm BELOW THE FINISHED GUTTER LINE GRADES. THE GUTTER AND ROAD SURFACE AREA TO BE SHAPED TO FORM A DISH AROUND THE INLET.
- TIE-IN TO EXISTING PAVEMENT SHALL BE MADE BY CUTTING BACK THE EXISTING PAVEMENT TO SOUND MATERIAL AS NECESSARY TO PRODUCE A NEAT VERTICAL FACE WITH STRAIGHT EDGE PRIOR TO PLACING HOT MIX ASPHALTIC CONCRETE. EXPOSED PAVEMENT SURFACES SHALL BE CLEANED, PAINTED WITH TACK COAT, AND HEATED TO 65 DEGREES CELSIUS. THE FINISHED PAVEMENT SURFACE SHALL BLEND IN SMOOTHLY WITH EXISTING PAVEMENT. THE EDGE OF PAVEMENT SHALL BE SAWCUT AND KEYED TO FORM A MINIMUM 200mm WIDE X 35mm DEEP LAP JOINT WITH PROPOSED PAVEMENT UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT MARKINGS AND SIGNAGE TO BE REINSTATED IN THE PLACE OF WORK UNLESS OTHERWISE NOTED. CONTRACTOR RESPONSIBLE TO PERFORM PRE AND POST CONSTRUCTION SURVEY WORK ESSENTIAL FOR THE REINSTATEMENT OF PAVEMENT MARKINGS AND SIGNAGE.
- OVER-EXCAVATE (OPTIONAL): WHERE DIRECTED BY THE CONTRACT ADMINISTRATOR, EXCAVATE UNSUITABLE MATERIAL AND REPLACE WITH IMPORTED BASE GRAVEL OR CRUSHED GRANULAR SUB-BASE COMPACTED IN PLACE TO 95% MODIFIED PROCTOR DENSITY.
- CONTRACTOR TO IDENTIFY ANY SURVEY MONUMENTS AND LEAD PLUGS THAT MAY BE DISTURBED DURING CONSTRUCTION AND ARRANGE WITH THE OWNER'S SURVEY DEPARTMENT 5 DAYS PRIOR TO CONSTRUCTION TO REFERENCE LOCATIONS BEFORE WORK COMMENCES.
- PROOF ROLL BASE, ADD GRAVELS AS REQ'D, RECOMPACT, AND RESHAPE AS REQ'D PRIOR TO PAVING.
- CLEAN AND TACK-COAT ALL ASPHALT SURFACES INCLUDING JOINTS PRIOR TO PAVING.
- CONTRACTOR MUST SET THE SURVEY LAYOUT OF THE PROPOSED CURB AND GUTTER AND SIDEWALK. A WALKTHROUGH WITH THE CONTRACT ADMINISTRATOR IS REQUIRED AFTER THE LAYOUT IS DONE. ADJUSTMENTS OF BOULEVARD, SIDEWALK ELEVATIONS AND LAYOUT MUST BE DONE AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR. THESE ADJUSTMENTS ARE INCIDENTAL TO THE CONTRACT.
- ALL CHANGES ARE INCIDENTAL TO CONTRACT.
- NEW LINE PAINTING AND SIGNAGE AS PER M.U.T.C.D STANDARDS.

STORM SEWER NOTES:

- STORM SERVICE RENEWAL/REPLACEMENT CRITERIA:
 - WHERE EXISTING LOTS HAVE MORE THAN ONE EXISTING STORM CONNECTION, THE CONTRACTOR SHALL INVESTIGATE AND VERIFY WHICH CONNECTIONS ARE ACTIVE.
 - ONE 150mm DIAMETER STORM SERVICE IS REQUIRED PER LOT. IF MORE THAN ONE ACTIVE CONNECTION IS PRESENT ON THE LOT, THE DOWNSTREAM SERVICE SHALL BE UPGRADED TO 150mm AND REMAINING SERVICES SHALL BE CAPPED BY THE FUTURE DEVELOPER.
 - INSPECTION CHAMBERS SHALL BE INSTALLED ON ALL ACTIVE STORM SERVICE CONNECTIONS.
 - INACTIVE CONNECTIONS SHALL BE CAPPED AT THE MAIN.
 - CONFIRM RENEWAL/REPLACEMENT STRATEGY WITH CONTRACT ADMINISTRATOR FOLLOWING INVESTIGATION OF EXISTING SERVICES.
- STORM SERVICE CONNECTIONS SHALL BE 150mm DR 28 PVC AS NOTED AND INSTALLED AS PER COQUITLAM STANDARD DRAWING S8A.
- STORM SERVICE CONNECTIONS SHALL BE INSTALLED FROM THE MAIN TO THE PROPERTY LINE AT 2% GRADE UNLESS NOTED OTHERWISE. ALL SERVICES SHALL ENTER THE MAIN AT A POINT JUST ABOVE THE SPRINGLINE. CONNECTIONS TO MAINS SHALL BE MADE USING WYE FITTINGS.
- STORM SERVICE INSPECTION CHAMBERS FOR 150mm STORM SERVICE SHALL BE INSTALLED AS PER THE MMCD STANDARD DRAWING NO. S9. STORM INSPECTION CHAMBER LIDS TO BE GREEN IN COLOUR.
- ALL WYES SHALL BE MANUFACTURED.

- STORM SERVICE CONNECTIONS SHALL BE INSTALLED BY THE CONTRACTOR FROM THE MAIN TO THE PROPERTY LINE INCLUDING THE INSPECTION CHAMBER 0.3m FROM THE PROPERTY LINE UNLESS NOTED OTHERWISE.
- EXISTING INVERTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT THE CITY OF COQUITLAM PRIOR TO THE COMMENCEMENT OF TIE-IN AND CONNECTION PROCEDURES. TIE-INS AND CONNECTIONS SHALL BE COORDINATED WITH THE CITY OF COQUITLAM.
- TYPICAL TRENCH SECTION SHALL BE INSTALLED AS PER STD. DWG. COQ-G4.
- STORM SEWER SHALL BE POLYVINYLCHLORIDE (PVC) PIPES WITH A MINIMUM SDR 35 SPECIFICATION UNLESS NOTED OTHERWISE.
- STORM SEWER MANHOLES SHALL BE 1050mm DIAMETER UNLESS OTHERWISE NOTED.
- SIDE INLET TYPE CATCH BASINS SHALL BE INSTALLED AS PER THE CITY OF COQUITLAM STANDARD DRAWING NO. COQ-S11A UNLESS NOTED OTHERWISE. CATCH BASIN LEADS SHALL BE 150mm DIAMETER PVC PIPE WITH A MINIMUM SDR 28 SPECIFICATION UNLESS NOTED OTHERWISE. DOUBLE CATCH BASIN LEADS SHALL BE 200mm DIAMETER PVC PIPE WITH A MINIMUM SDR 35 SPECIFICATION UNLESS NOTED OTHERWISE.
- FOR CATCH BASINS LOCATED ADJACENT TO A CURB, THE CATCH BASIN RIM ELEVATIONS SHALL BE SET 30mm BELOW THE FINISHED GUTTER LINE GRADE. FOR CATCH BASINS SURROUNDED BY PAVEMENT, THE CATCH BASIN RIM ELEVATIONS SHALL BE SET FLUSHED WITH THE FINISHED PAVEMENT. THE GUTTER AND ROAD SURFACE ARE TO BE SHAPED TO FORM A DISH AROUND THE INLET.
- REFER TO ROAD DESIGN DRAWINGS FOR CATCH BASIN LOCATIONS AND ELEVATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE IN ENSURING THAT THE FINISHED RIM ELEVATION OF THE STORM SEWER MANHOLES MATCHES THE FINISHED ROAD GRADES AND ELEVATIONS.
- LAWN BASINS SHALL BE INSTALLED AS PER THE COQUITLAM STANDARD DRAWING S12A TYPE 1. LAWN BASIN LEADS SHALL BE 150mm DIAMETER PVC PIPE WITH A MINIMUM SDR 28 SPECIFICATION UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL STORM SEWERS UNDER 900mm DIAMETER, INCLUDING INSPECTION HARD COPIES AND DIGITAL FORMAT IN A FORMAT SATISFACTORY TO THE CA. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTIONS.
- INSPECTION CHAMBER LID TO BE 50mm BELOW THE SOD FINAL GRADE.

NOT TO SCALE

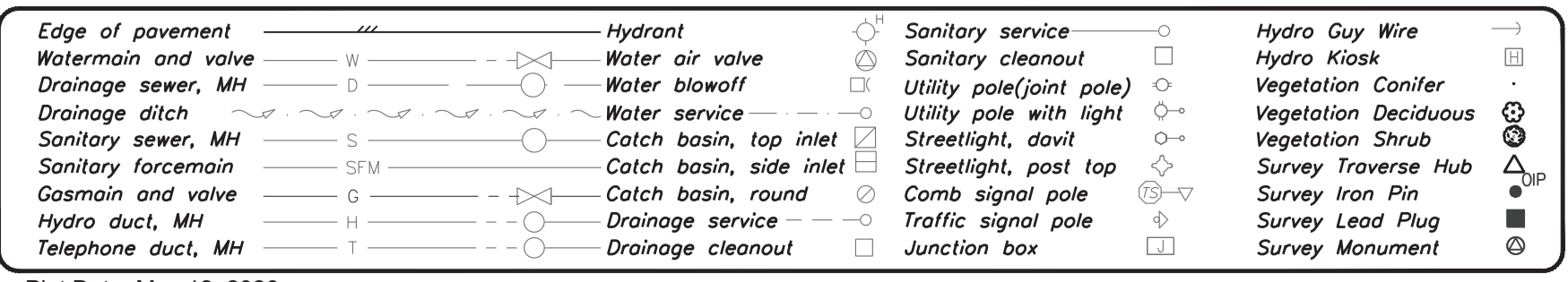
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No.	Date	By	Revisions
3	2026-05-13	AC	ISSUED FOR TENDER
2	2026-04-17	AC	100% DESIGN SUBMISSION
1	2026-04-02	AC	DRAFT 100% DESIGN SUBMISSION

Design by	Date
AC	
Drawn by	Date
MK	
Checked by	Date
PD	
Approved by	Date
SR	

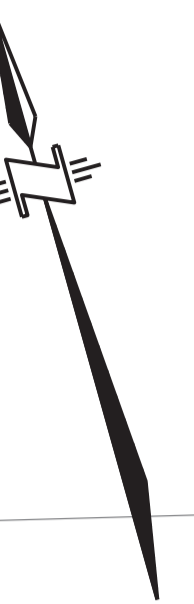


Scale	N.T.S.	Scale	N.T.S.
horiz.		vert.	
Sheet	01	of	05
Eng. Project No.	25-0958		

Project	LOUGHEED HIGHWAY LOUGHEED HWY AT WOOLRIDGE CONNECTOR
Description	GENERAL NOTES
File:	25-0958-N1
REV.	3

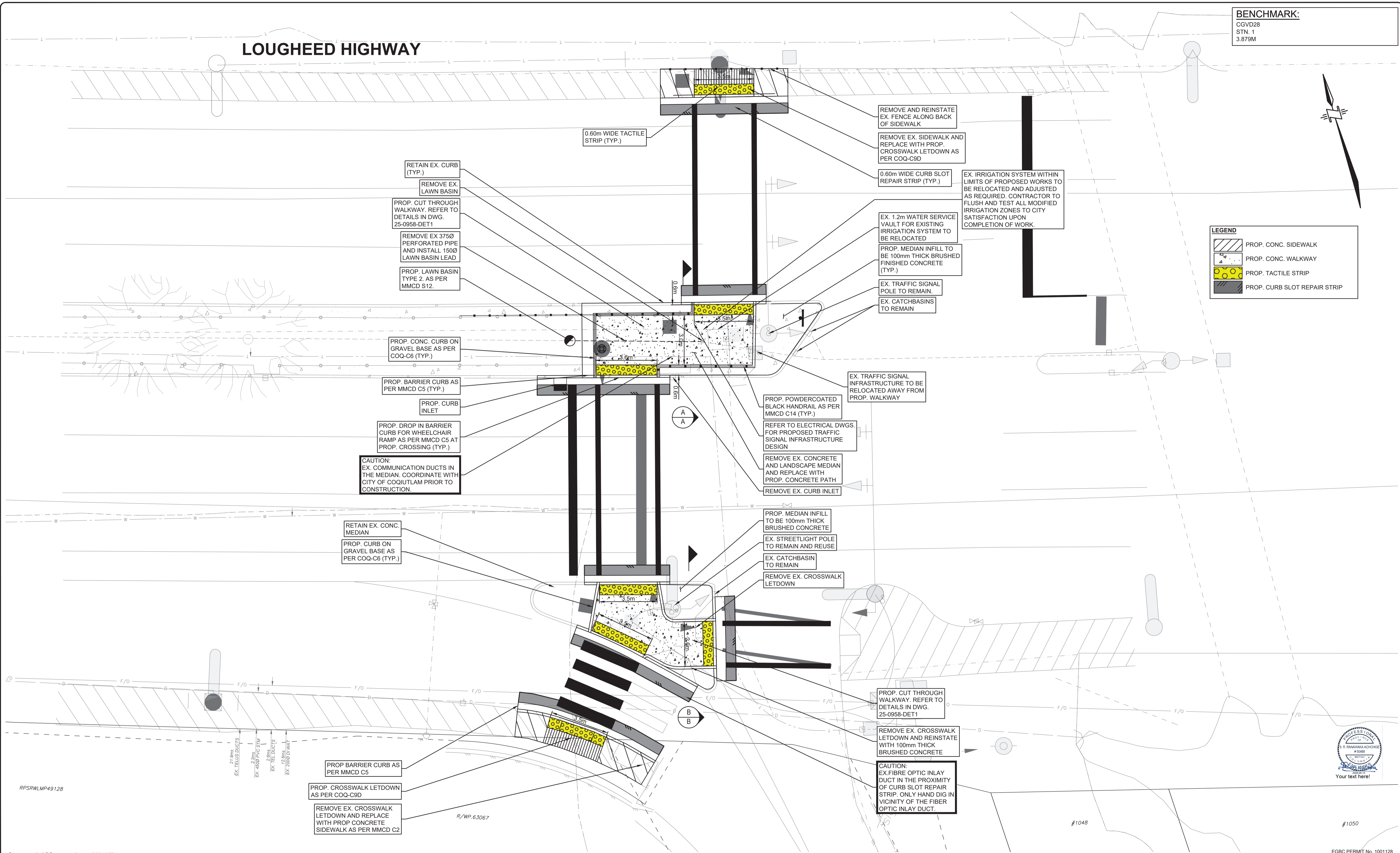
LOUGHEED HIGHWAY

BENCHMARK:
CGVD28
STN. 1
3,879M



LEGEND

- PROP. CONC. SIDEWALK
- PROP. CONC. WALKWAY
- PROP. TACTILE STRIP
- PROP. CURB SLOT REPAIR STRIP



0 1:100 4m
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Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
4	2026-05-13	AC	ISSUED FOR TENDER
3	2026-04-17	AC	100% DESIGN SUBMISSION
2	2026-04-02	AC	DRAFT 100% DESIGN SUBMISSION
1	2026-02-27	AC	PRELIMINARY SUBMISSION

Design by	Date
AC	
Drawn by	Date
MK	
Checked by	Date
PD	
Approved by	Date
SR	

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Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale horiz. 1:100 Scale vert. 1:100
 Sheet 02 of 05
 Eng. Project No. 25-0958

Project **LOUGHEED HIGHWAY**
LOUGHEED HWY AT WOOLRIDGE CONNECTOR
 Description **KEY PLAN**
 File: **25-0958-KP1**
 REV. 4



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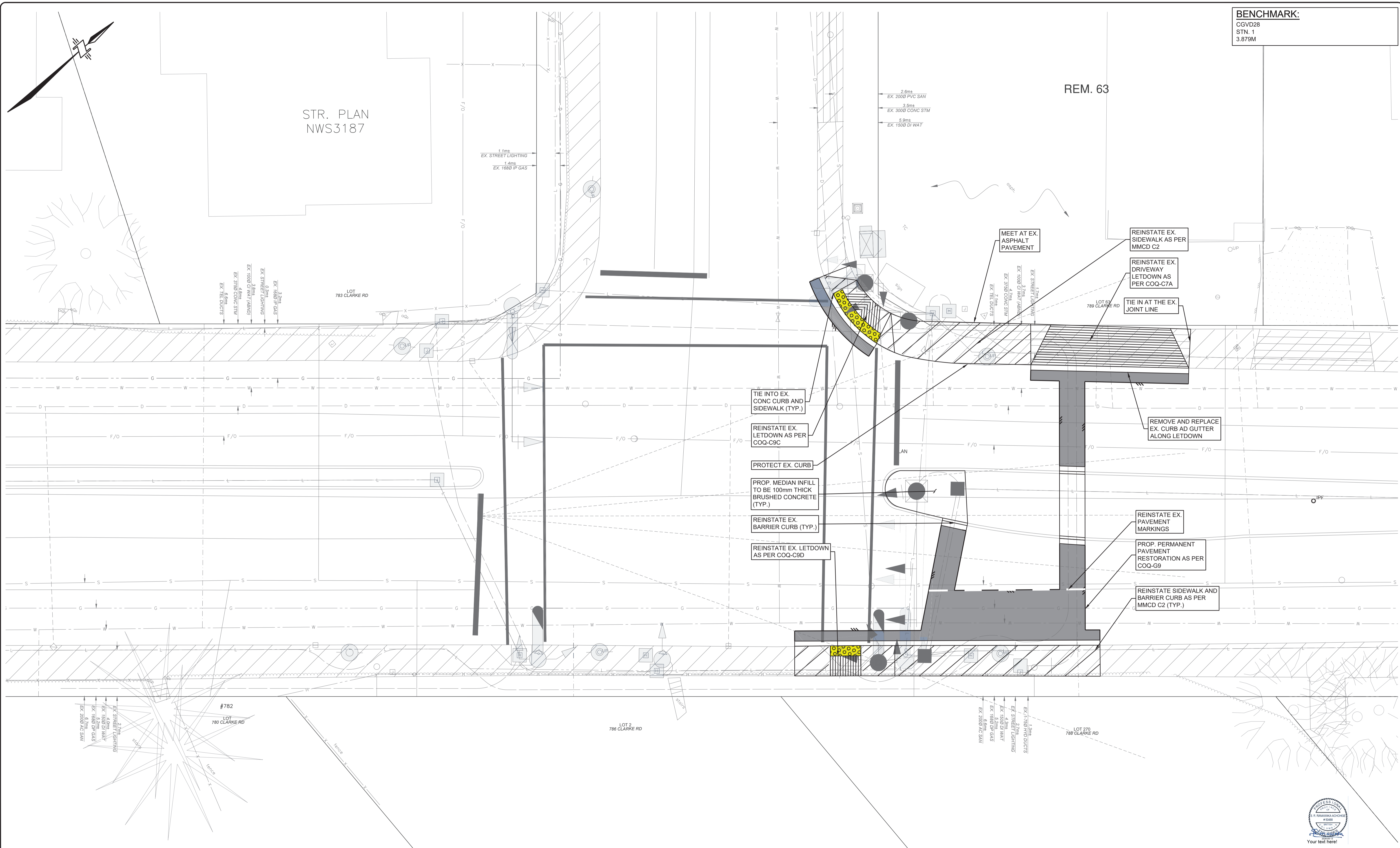
EGBC PERMIT No. 1001128

NOT FOR CONSTRUCTION

BENCHMARK:
CGVD28
STN. 1
3.879M

REM. 63

STR. PLAN
NWS3187



- TIE INTO EX. CONC CURB AND SIDEWALK (TYP.)
- REINSTATE EX. LETDOWN AS PER COQ-C9C
- PROTECT EX. CURB
- PROP. MEDIAN INFILL TO BE 100mm THICK BRUSHED CONCRETE (TYP.)
- REINSTATE EX. BARRIER CURB (TYP.)
- REINSTATE EX. LETDOWN AS PER COQ-C9D
- REINSTATE EX. SIDEWALK AS PER MMCD C2
- REINSTATE EX. DRIVEWAY LETDOWN AS PER COQ-C7A
- TIE IN AT THE EX. JOINT LINE
- REMOVE AND REPLACE EX. CURB AND GUTTER ALONG LETDOWN
- REINSTATE EX. PAVEMENT MARKINGS
- PROP. PERMANENT PAVEMENT RESTORATION AS PER COQ-G9
- REINSTATE SIDEWALK AND BARRIER CURB AS PER MMCD C2 (TYP.)

0 1:100 4m
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Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)	Vegetation Conifer
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Comb signal pole	Traffic signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Junction box	Survey Lead Plug
Telephone duct, MH	Drainage cleanout		Survey Monument

No.	Date	By	Revisions
2	2026-05-13	AC	ISSUED FOR TENDER
1	2026-02-27	AC	PRELIMINARY SUBMISSION

Design by	Date
AC	
Drawn by	Date
MK	
Checked by	Date
PD	
Approved by	Date
SR	

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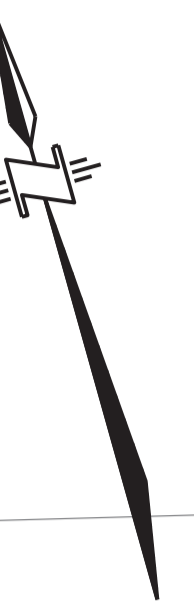
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale horiz. 1:100 Scale vert. 1:100
Sheet 03 of 05
Eng. Project No. 25-0958

Project **CLARKE RD**
CLARKE RD AT GLENAYRE DR
Description **KEY PLAN**
File: **25-0958-KP2**
EGBC PERMIT No. 1001128
NOT FOR CONSTRUCTION
REV. 2

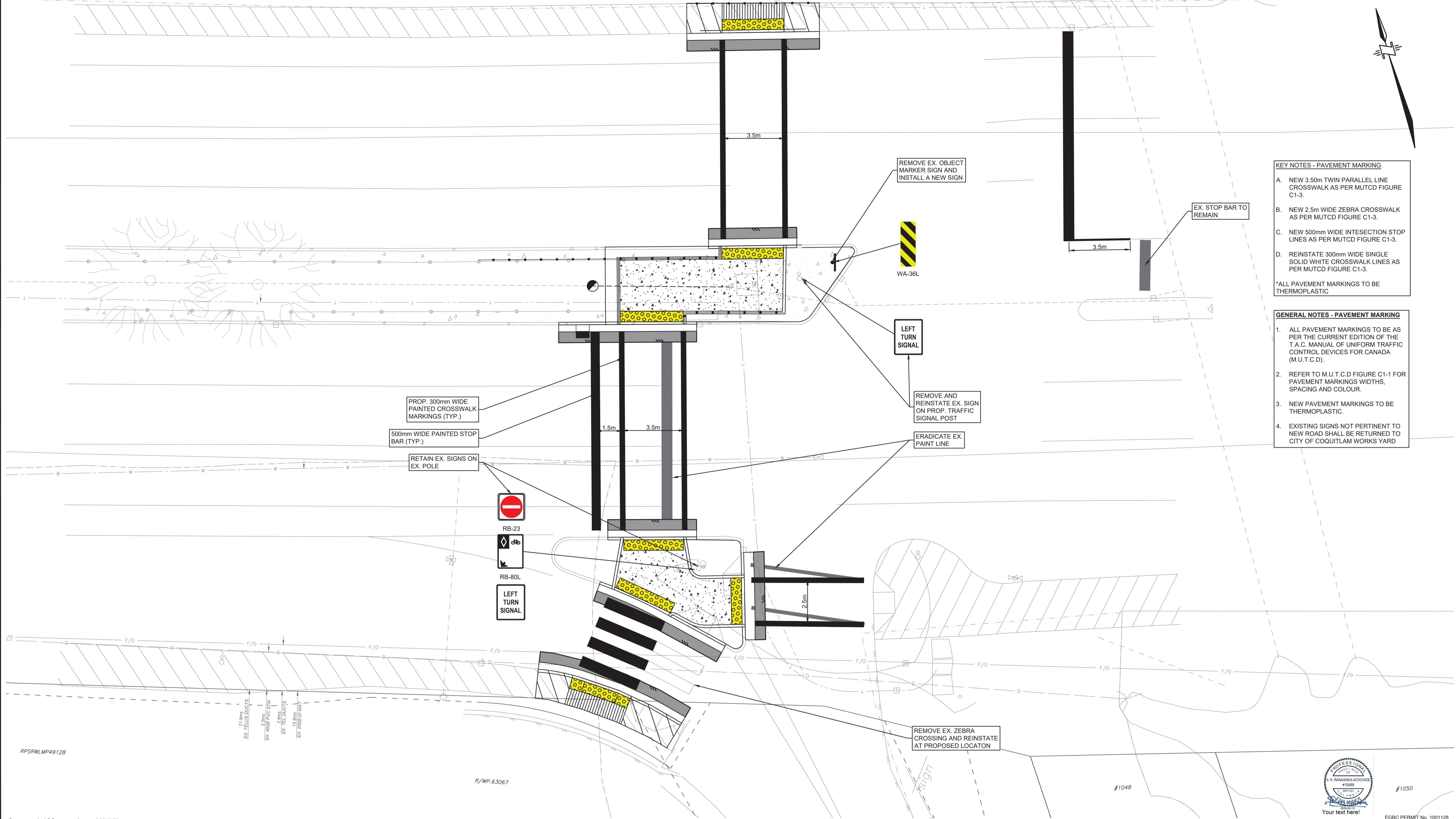
LOUGHEED HIGHWAY

BENCHMARK:
CGVD28
STN. 1
3.879M



- KEY NOTES - PAVEMENT MARKING**
- A. NEW 3.50m TWIN PARALLEL LINE CROSSWALK AS PER MUTCD FIGURE C1-3.
 - B. NEW 2.5m WIDE ZEBRA CROSSWALK AS PER MUTCD FIGURE C1-3.
 - C. NEW 500mm WIDE INTERSECTION STOP LINES AS PER MUTCD FIGURE C1-3.
 - D. REINSTATE 300mm WIDE SINGLE SOLID WHITE CROSSWALK LINES AS PER MUTCD FIGURE C1-3.
- *ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC

- GENERAL NOTES - PAVEMENT MARKING**
1. ALL PAVEMENT MARKINGS TO BE AS PER THE CURRENT EDITION OF THE T.A.C. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (M.U.T.C.D.).
 2. REFER TO M.U.T.C.D FIGURE C1-1 FOR PAVEMENT MARKINGS WIDTHS, SPACING AND COLOUR.
 3. NEW PAVEMENT MARKINGS TO BE THERMOPLASTIC.
 4. EXISTING SIGNS NOT PERTINENT TO NEW ROAD SHALL BE RETURNED TO CITY OF COQUITLAM WORKS YARD



0 1:100 4m
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Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)	Vegetation Canister
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
3	2026-05-13	AC	ISSUED FOR TENDER
2	2026-04-17	AC	100% DESIGN SUBMISSION
1	2026-04-01	AC	DRAFT 100% DESIGN SUBMISSION

Design by	Date
AC	
Drawn by	Date
MK	
Checked by	Date
PD	
Approved by	Date
SR	

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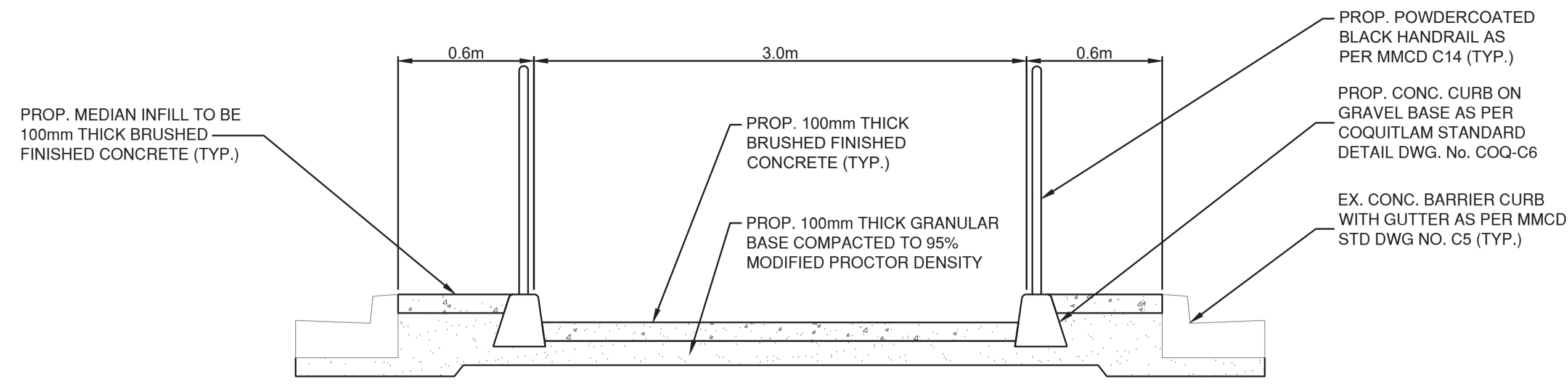
Scale horiz. 1:100 Scale vert. 1:100
Sheet 04 of 05
Eng. Project No. 25-0958

Project **LOUGHEED HIGHWAY**
LOUGHEED AND WOOLRIDGE CONNECTOR
Description **PAVEMENT MARKING AND SIGNAGE**
File: **25-0958-PM1** REV. 3

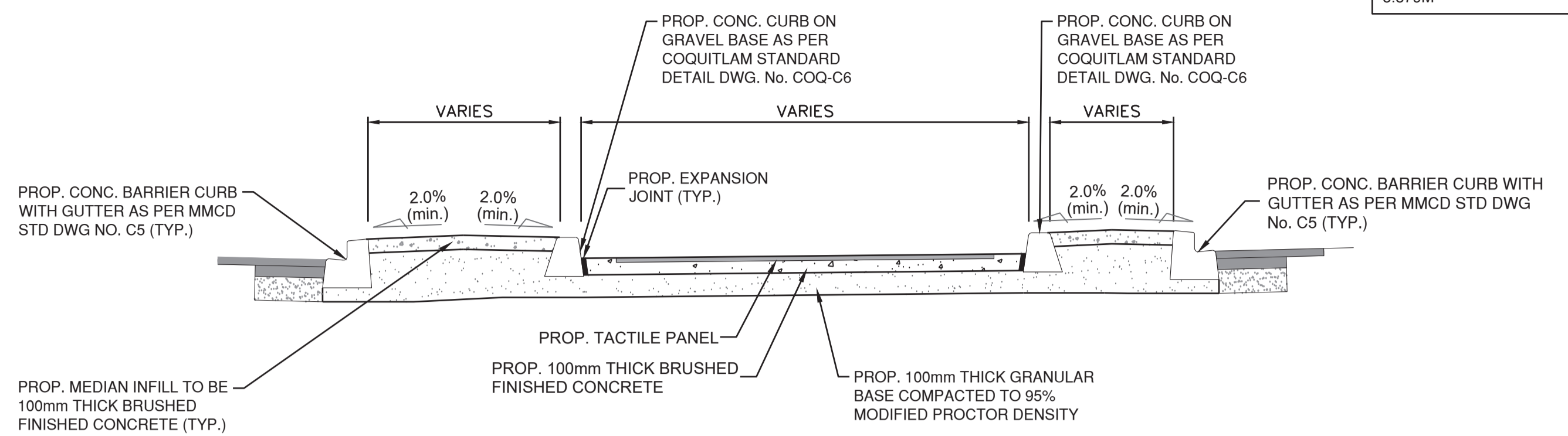


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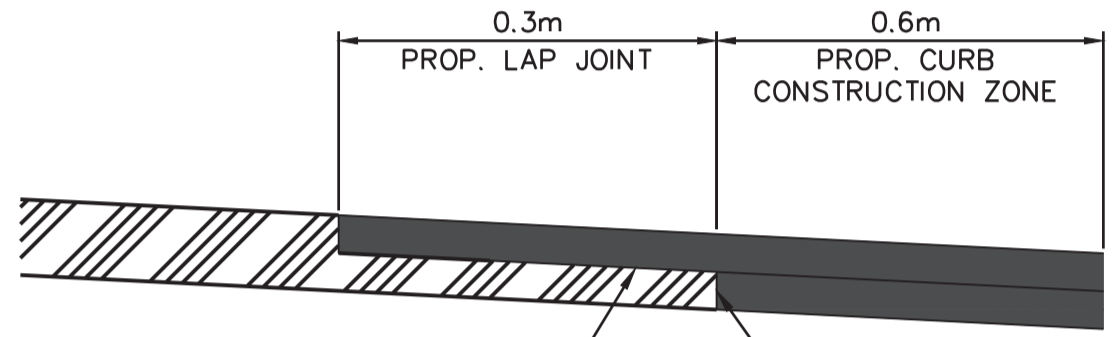
BENCHMARK:
CGVD28
STN. 1
3.879M



TYPICAL PROP. MEDIAN SECTION A-A
NOT TO SCALE



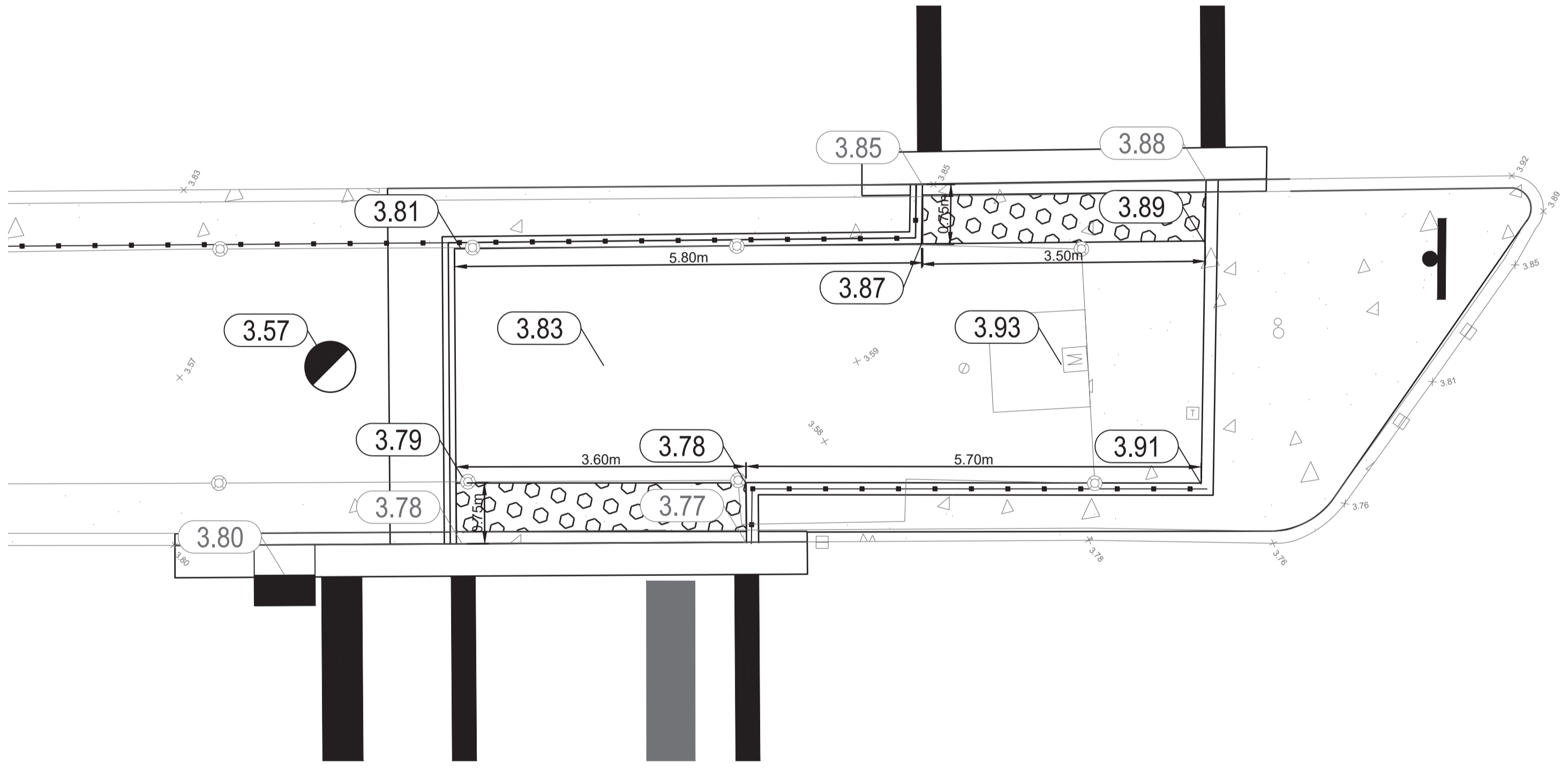
TYPICAL PROP. RAISED ISLAND SECTION B-B
NOT TO SCALE



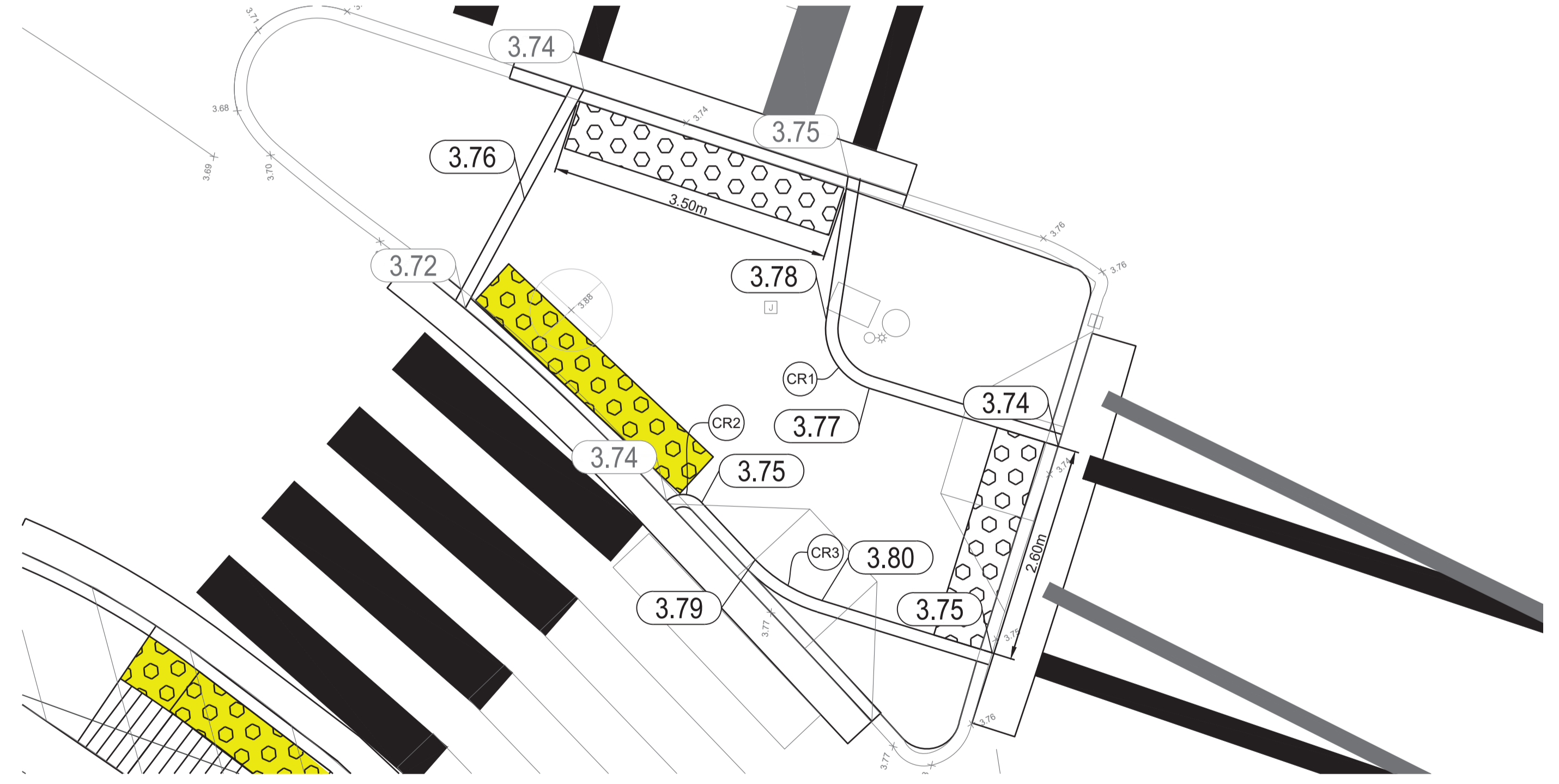
SURFACE MILL EXISTING ASPHALT TO ALLOW 50mm OVERLAY USING UPPER COURSE #1 ASPHALT. CONTRACT ADMINISTRATOR TO INSPECT MILLED SURFACE AND DETERMINE IF ANY PATCHING IS REQUIRED. PATCHING TO BE MINIMUM 75mm THICK OR MATCH EXISTING ASPHALT THICKNESS (WHICHEVER IS GREATER).

TYPICAL PAVEMENT JOINT DETAIL
NOT TO SCALE

CURVE TABLE						
CURVE No.	RADIUS	DELTA	LENGTH	BC NORTHING / EASTING	EC NORTHING / EASTING	
CR1	0.75	81° 34' 16"	1.068	5455833.132 / 510043.988	5455832.302 / 510044.510	
CR2	0.30	88° 55' 30"	0.472	5455830.936 / 510042.052	5455830.913 / 510042.477	
CR3	1.85	29° 44' 36"	0.960	5455830.232 / 510043.116	5455829.730 / 510043.922	



MEDIAN GRADING DETAIL
SCALE: 1:50



RAISED ISLAND GRADING DETAIL
SCALE: 1:50

NOT TO SCALE

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EGBC PERMIT No. 1001128

NOT FOR CONSTRUCTION

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage ditch	Water blowoff	Utility pole (joint pole)	Vegetation Conifer
Sanitary sewer, MH	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, down	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
3	2026-05-13	AC	ISSUED FOR TENDER
2	2026-04-17	AC	100% DESIGN SUBMISSION
1	2026-04-02	AC	DRAFT 100% DESIGN SUBMISSION

Design by	Date
AC	
Drawn by	Date
MK	
Checked by	Date
PD	
Approved by	Date
SR	

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3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale horiz. **N.T.S.** Scale vert. **N.T.S.**
Sheet **05** of **05**
Eng. Project No. **25-0958**

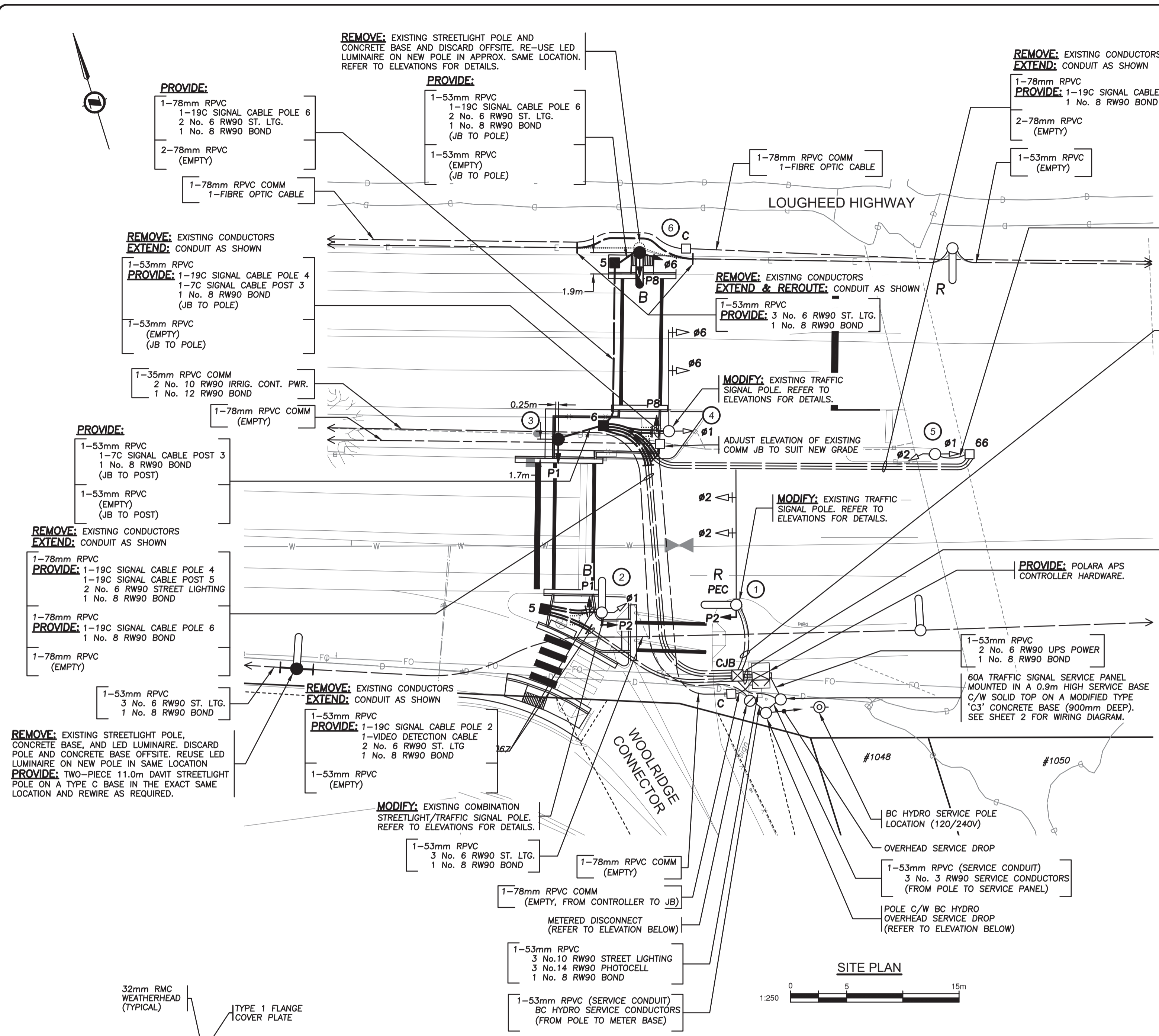
Project **LOUGHEED HIGHWAY
LOUGHEED HWY AT WOOLRIDGE CONNECTOR**
Description **DETAILS**
File: **25-0958-DET1**
REV. **3**

TRAFFIC SIGNAL NOTES

- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE (IN ORDER OF PRECEDENCE) WITH THE SUPPLEMENTAL SPECIFICATIONS, MASTER MUNICIPAL CONSTRUCTION DOCUMENT, 2018 ISSUE AND THE CURRENT MOTT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.
- 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
- 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.
- ALL CONDUITS ENTERING POLES AND CABINETS SHALL BE SEALED WITH "DUCT SEAL".
- CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION.
- TRAFFIC CONTROL IS REQUIRED TO CITY STANDARDS. (MOTT).
- INSTALL BELL END FITTING ON ALL CONDUITS ENTERING JUNCTION BOXES.
- ALL CONDUITS SHALL BE BURIED MINIMUM 600mm DEEP. A 'BURIED CABLE' MARKER TAPE SHALL BE INSTALLED 300mm ABOVE CONDUIT IN ALL TRENCHES. DETECTABLE (METALLIC) TAPE TO BE USED ABOVE CONDUIT IN TRENCHES CONTAINING ONLY INTERCONNECT CONDUIT.
- CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS, LANDSCAPING AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION.
- ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
- JUNCTION BOXES IN BOULEVARD 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 TOP OF THE BOX LID.
- 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.
- BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
- ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.
- ALL POLES AND ARMS SHALL BE GALVANIZED AND POWDER COATED GREEN, RAL 6028.

LEGEND

- PROPOSED TRAFFIC SIGNAL POST
- PROPOSED COMBINATION TRAFFIC/STREET LIGHTING POLE
- MODIFIED TRAFFIC SIGNAL POLE
- MODIFIED COMBINATION TRAFFIC/STREET LIGHTING POLE
- EXISTING COMBINATION TRAFFIC/STREET LIGHTING POLE
- EXISTING TRAFFIC SIGNAL POST
- EXISTING DAVIT STREETLIGHT POLE
- 5 PROPOSED POLYMER JUNCTION BOX (17 x 30 x 24, OPEN BOTTOM) C/W LID LABELED "ELEC" AND PENTA HEAD SECURITY BOLTS
- 6 PROPOSED POLYMER JUNCTION BOX (24 x 36 x 36, OPEN BOTTOM) C/W LID LABELED "ELEC" AND PENTA HEAD SECURITY BOLTS
- EXISTING "T" TYPE TRAFFIC CONTROLLER C/W SIDE-MOUNTED UPS CABINET AND TWO CONCRETE WORKING PADS
- 66 EXISTING CONCRETE JUNCTION BOX (TYPE 66)
- C EXISTING COMMUNICATIONS JUNCTION BOX
- CJB EXISTING SMALL CONCRETE VAULT C/W BONDED GALVANIZED STEEL CHECKERPLATE LID LABELED "ELEC"
- #2 VEHICLE PHASE
- P2 PEDESTRIAN PHASE
- PROPOSED CONDUIT AND CONDUCTORS
- EXISTING CONDUIT AND CONDUCTORS
- EXISTING COMMUNICATIONS CONDUIT

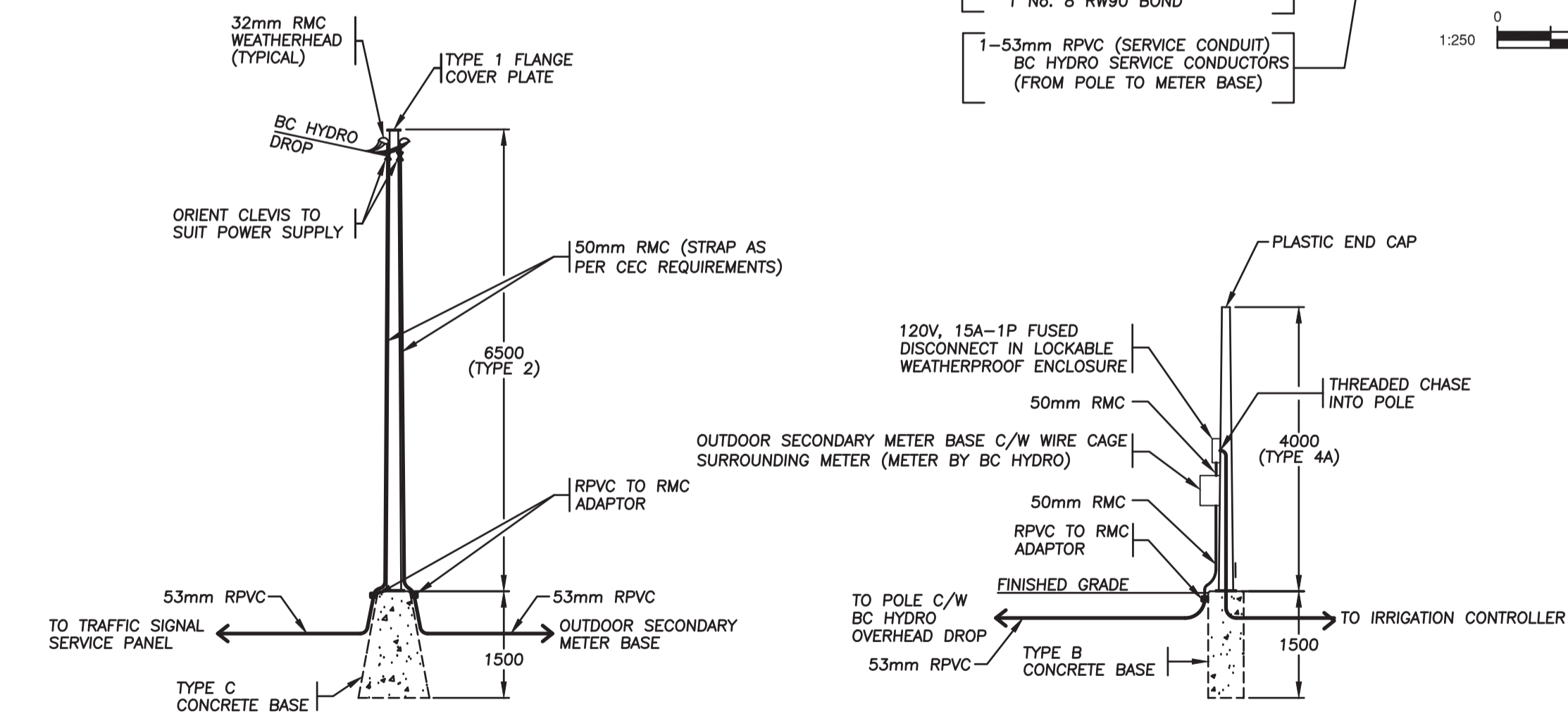


EXISTING INFORMATION SHOWN WAS TAKEN FROM THE EXISTING CITY AS-BUILT DRAWINGS. DETAILS ON DRAWINGS ONLY SHOW CHANGES REQUIRED AND MAY NOT ACCURATELY REPRESENT WHAT EXISTS IN FIELD

REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCTS LIST FOR ALL EQUIPMENT DETAILS. IF ANYTHING IS NOT LISTED, COORDINATE WITH CITY TRANSPORTATION GROUP.

THE CONTRACTOR SHALL COORDINATE ALL TERMINATION IN THE TRAFFIC CONTROLLER WITH THE CONTRACT ADMINISTRATOR.

THE CITY OF COQUITLAM SHALL BE RESPONSIBLE FOR PROGRAMMING CHANGES TO THE TRAFFIC SIGNAL INCLUDING THE VIDEO DETECTION SYSTEM. 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.



INTERSECTION DESIGN CRITERIA		
INTERSECTION (NAME)	LOUGHEED HIGHWAY	WOOLRIDGE CONNECTOR
LAND USE CLASSIFICATION	COMMERCIAL	
ROAD CLASSIFICATION AND ROAD WIDTH	ARTERIAL - 28.9m	LOCAL - 7.8m
PEDESTRIAN ACTIVITY LEVEL	MEDIUM	
ILLUMINANCE RECOMMENDED/DELIVERED	20.0 LUX	24.1 LUX
UNIFORMITY RECOMMENDED/DELIVERED	3.0:1	1.7:1
LIGHT LOSS FACTOR	0.84	
SPACING	AS SHOWN	
EQUIPMENT:		
FIXTURE TYPE: LED	WATTAGE: 100W	MTG. HEIGHT: 11.0m
IES FILE:	NXT-72-0-X-3-XX-4-XX-XX-X	MODEL: LIVEABLE CITIES NXT
FIXTURE TYPE: LED	WATTAGE: 100W	MTG. HEIGHT: 9.5m
IES FILE:	NXT-72-0-X-3-XX-4-XX-XX-X	MODEL: LIVEABLE CITIES NXT

** BASED ON A 20-YEAR FIXTURE LIFE AND 10 YEAR CLEANING CYCLE

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.

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 DMD DIGITAL DRAWINGS. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING EQUIPMENT.

ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

NOT FOR CONSTRUCTION
2026-05-08

EXISTING STREET LIGHTING SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. IF TRAFFIC SIGNAL DE-ENERGIZATION IS REQUIRED CONTRACTOR SHALL ENSURE FULL-TIME FLAGGING IS USED DURING ANY TRAFFIC SIGNAL DOWNTIME.

BC CALL BEFORE YOU DIG
1-800-474-6886
or by CELLULAR #888
Vancouver Area 257-8940

COQ. ASBULT No. EXXXX

Benchmark:
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.
#12-11558 1044 Avenue, Surrey, BC, Canada V4N 0A3
www.dmdeng.com 604-589-9010
office@dmdeng.com Fax 604-589-9012
DMD PROJECT No. 8689A-26-01 of 02

No.	Date	By	Revisions
2026-05-08	TP		ISSUED FOR TENDER
2026-04-10	TP		90% SUBMISSION
2026-03-05	TP		PRELIMINARY SUBMISSION

ACCEPTED FOR CONSTRUCTION
Date: _____
Manager of Development Servicing

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

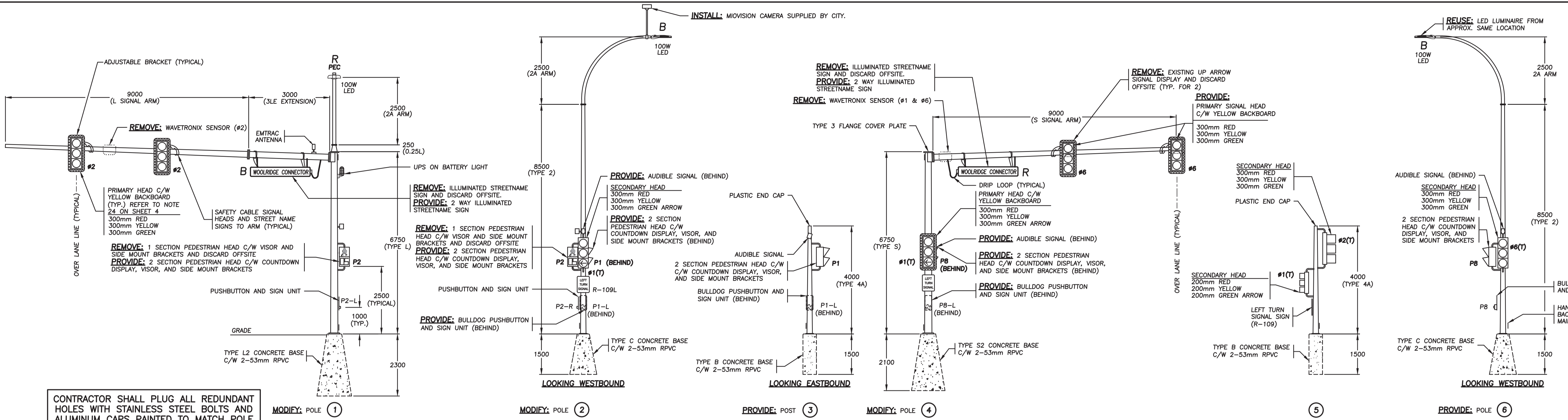
PERMIT TO PRACTICE
Signature: _____
Date: _____
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia



Design by: CB Date: 20-02-2026
Drawn by: Kh Date: 20-02-2026
Checked by: CB Date: 20-02-2026
Approved by: MC Date: 20-02-2026

Scale: 1:250
Sheet of: 1 OF 2
Eng. Project No. _____

Project: LOUGHEED HIGHWAY WOOLRIDGE CONNECTOR
Description: TRAFFIC SIGNAL MODIFICATION
File: 8689A-26-TS



CONTRACTOR SHALL PLUG ALL REDUNDANT HOLES WITH STAINLESS STEEL BOLTS AND ALUMINUM CAPS PAINTED TO MATCH POLE COLOUR AS REQUIRED.

ALL SIGNAL AND PEDESTRIAN DISPLAYS SHALL BE LED

CONTRACTOR IS REQUIRED TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ALL NEW POLE(S). 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.

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

1. 2 WAY ILLUMINATED STREETNAME SIGN

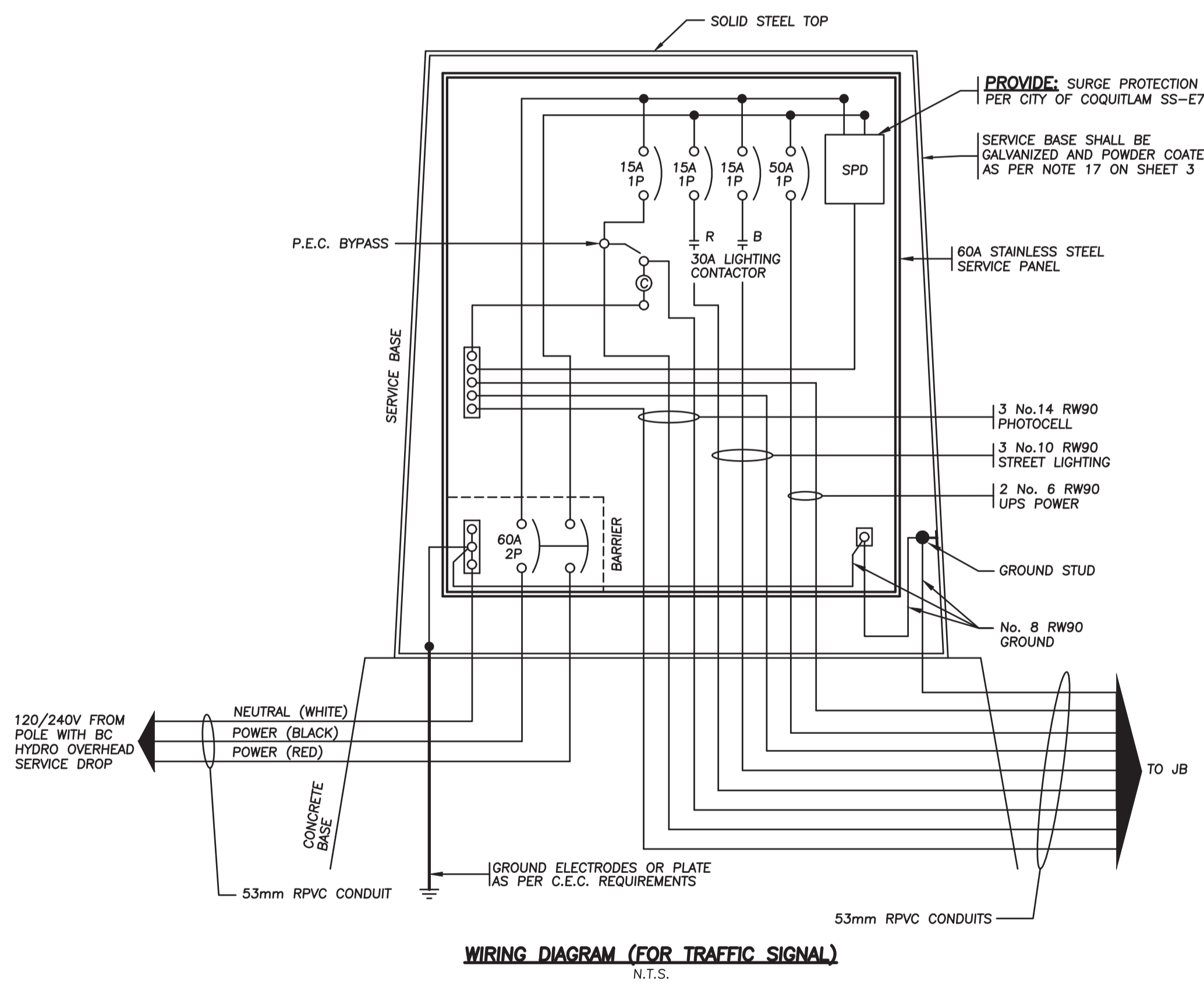
ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.

EXISTING INFORMATION SHOWN WAS TAKEN FROM THE EXISTING CITY AS-BUILT DRAWINGS. DETAILS ON DRAWINGS ONLY SHOW CHANGES REQUIRED AND MAY NOT ACCURATELY REPRESENT WHAT EXISTS IN FIELD

REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCTS LIST FOR ALL EQUIPMENT DETAILS. IF ANYTHING IS NOT LISTED, COORDINATE WITH CITY TRANSPORTATION GROUP.

THE CONTRACTOR SHALL COORDINATE ALL TERMINATION IN THE TRAFFIC CONTROLLER WITH THE CONTRACT ADMINISTRATOR.

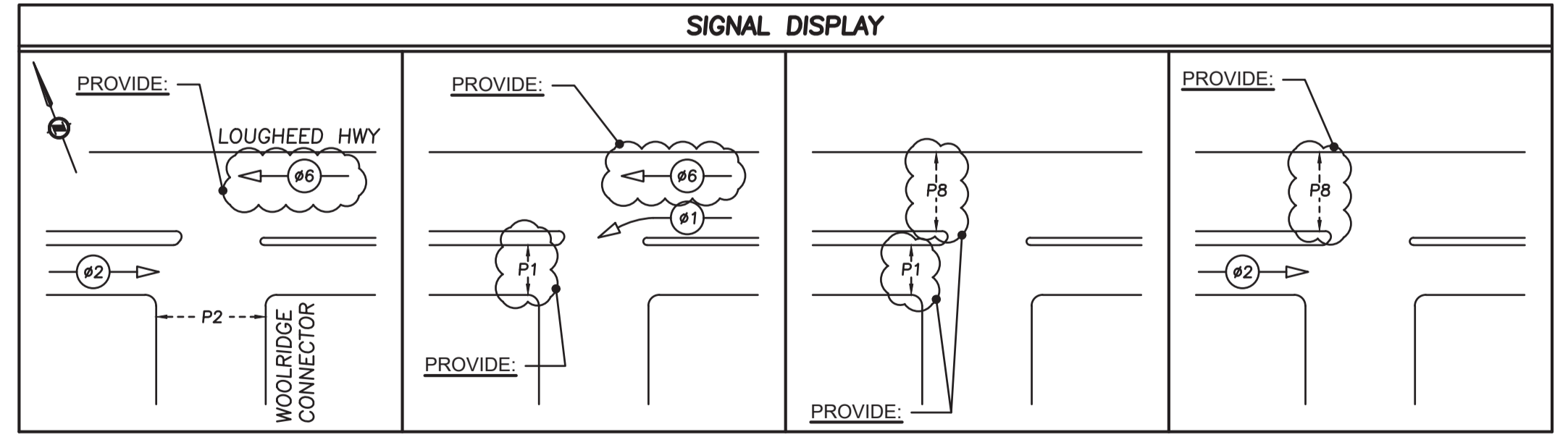
THE CITY OF COQUITLAM SHALL BE RESPONSIBLE FOR PROGRAMMING CHANGES TO THE TRAFFIC SIGNAL INCLUDING THE VIDEO DETECTION SYSTEM. CONTRACTOR SHALL PROVIDE THE CITY 3 WEEKS NOTICE IN ADVANCE OF WORK BEING REQUIRED. ALL COST RELATED TO THIS WORK WILL BE BORNE BY THE CITY.



WIRING DIAGRAM (FOR TRAFFIC SIGNAL)
N.T.S.

EXISTING STREET LIGHTING SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. IF TRAFFIC SIGNAL DE-ENERGIZATION IS REQUIRED CONTRACTOR SHALL ENSURE FULL-TIME FLAGGING IS USED DURING ANY TRAFFIC SIGNAL DOWNTIME.

NOT FOR CONSTRUCTION
2026-05-08



Benchmark:
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.
#12-17508 104th Avenue, Surrey, BC, Canada V4N 0K3
www.dmdeng.com 604-589-9010
office@dmdeng.com Fax 604-589-9012
DMD PROJECT No. 8689A-26-02 of 02

No.	Date	By	Revisions
2026-05-08	TP		ISSUED FOR TENDER
2026-04-10	TP		90% SUBMISSION
2026-03-05	TP		PRELIMINARY SUBMISSION

ACCEPTED FOR CONSTRUCTION
Date: _____
Manager of Development Servicing

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

PERMIT TO PRACTICE
Signature: _____
Date: _____
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

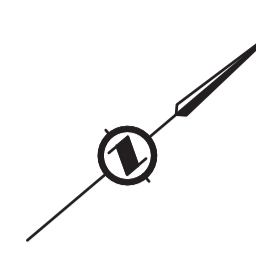


Design by TP	Date 20-02-2026	Scale 1:75
Drawn by KH	Date 20-02-2026	Sheet of 2 OF 2
Checked by CB	Date 20-02-2026	Eng. Project No.
Approved by MC	Date 20-02-2026	

BC CALL BEFORE YOU DIG
1-800-474-6886
or by CELLULAR #888 Vancouver Area 257-8440
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBUILT No. EXXXX

Project **LOUGHEED HIGHWAY WOOLRIDGE CONNECTOR**
Description **TRAFFIC SIGNAL MODIFICATION**
File: 8689A-26-TS



REMOVE: EXISTING COMBINATION TRAFFIC/STREET LIGHTING POLE, EQUIPMENT, LED LUMINAIRE AND CONCRETE BASE. DISCARD POLE AND CONCRETE BASE OFFSITE. **REUSE:** EQUIPMENT AS SHOWN ON POLE 1. REFER TO ELEVATION FOR DETAILS.

MODIFY: EXISTING TRAFFIC SIGNAL POLE. REFER TO SHEET 2 FOR DETAILS.

1-53mm RPVC
REMOVE: EXISTING CONDUCTORS
PROVIDE: 1-19C SIGNAL CABLE POLE 6
2 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-35mm RPVC
REMOVE: EXISTING CONDUCTORS
PROVIDE: PULLSTRING

1-25mm RPVC (EMPTY)

1-53mm RPVC
REMOVE: EXISTING CONDUCTORS
PROVIDE: 1-19C SIGNAL CABLE POLE 6
2 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
REMOVE: EXISTING CONDUCTORS
PROVIDE: 1-19C SIGNAL CABLE POLE 5
2 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND (JB TO POST)

MODIFY: EXISTING TRAFFIC SIGNAL POST. REFER TO SHEET 2 FOR DETAILS.

1-53mm RPVC
REMOVE: EXISTING CONDUCTORS
PROVIDE: 1-7C SIGNAL CABLE POLE 4
1 No. 8 RW90 BOND (JB TO POST)

REMOVE: EXISTING CONDUCTORS

1-53mm RPVC
PROVIDE: 2-19C SIGNAL CABLE POLE (1,3)
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 2-19C SIGNAL CABLE POLE (5,6)
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 2 No.14 RW90 UPS "BATTERY PWR."
1 EMTRAC COAX CABLE
1 MIOVISION CAMERA CABLE
1 PTZ CAMERA CABLE
1 CAT5E RADIO CABLE
1 No. 8 RW90 BOND

1-53mm RPVC (EMPTY)
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 2 No. 6 RW90 CONT. PWR.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
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1-53mm RPVC
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1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

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1 No. 8 RW90 BOND

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1 No. 8 RW90 BOND

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1 No. 8 RW90 BOND

1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

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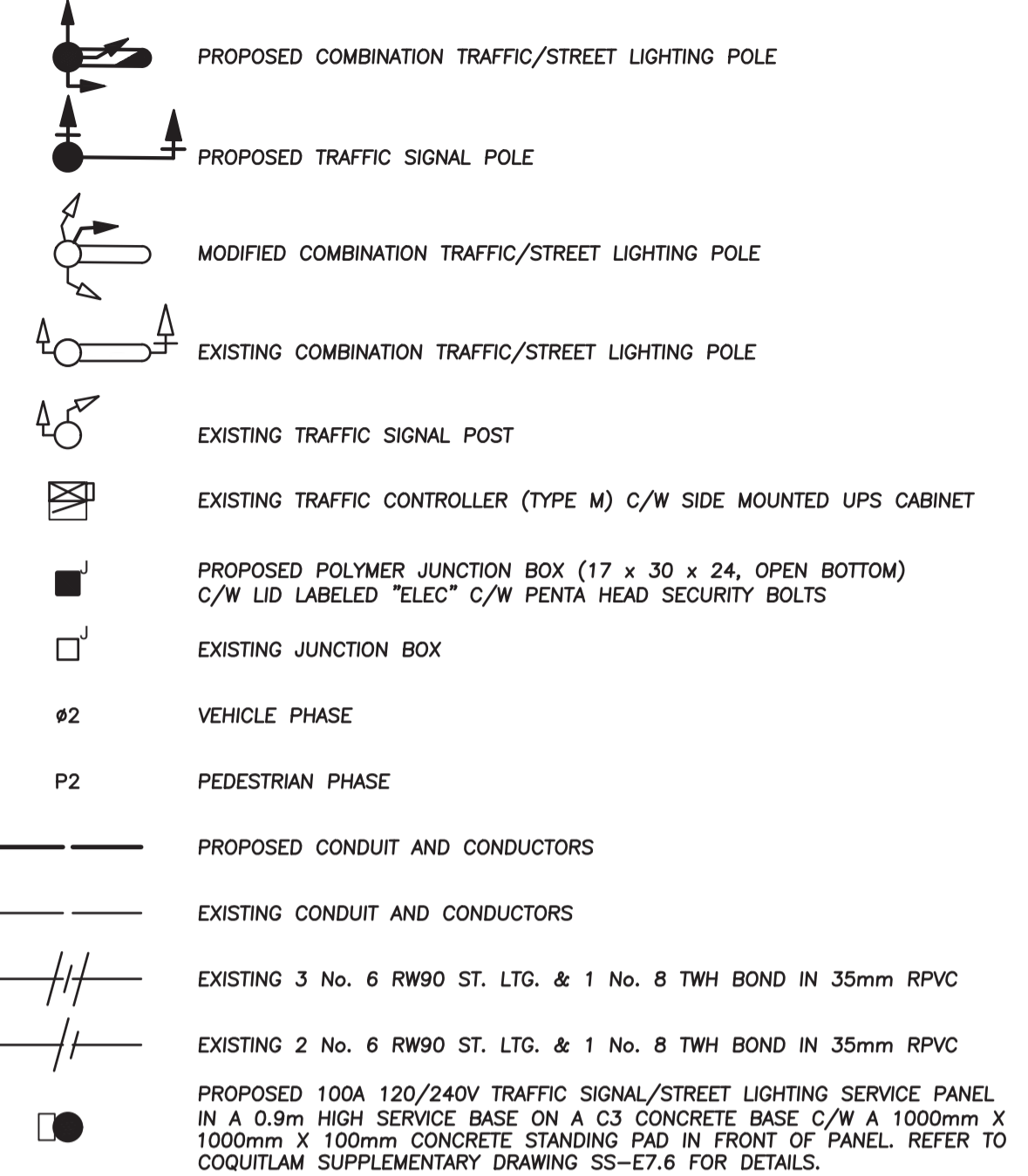
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1-53mm RPVC
PROVIDE: 3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

LEGEND



TRAFFIC SIGNAL NOTES

- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE (IN ORDER OF PRECEDENCE) WITH THE SUPPLEMENTAL SPECIFICATIONS, MASTER MUNICIPAL CONSTRUCTION DOCUMENT, 2019 ISSUE AND THE CURRENT MOTT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.
- 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
- 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.
- ALL CONDUITS ENTERING POLES AND CABINETS SHALL BE SEALED WITH "DUCT SEAL".
- CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION.
- TRAFFIC CONTROL IS REQUIRED TO CITY STANDARDS. (M.o.T.)
- INSTALL BELL END FITTING ON ALL CONDUITS ENTERING JUNCTION BOXES.
- INSTALL HANGER BAR & TY-RAP WIRES TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING COQUITLAM SUPPLEMENTARY DRAWING SS-E2.5
- ALL CONDUITS SHALL BE BURIED MINIMUM 600mm DEEP. A 'BURIED CABLE' MARKER TAPE SHALL BE INSTALLED 300mm ABOVE CONDUIT IN ALL TRENCHES. DETECTABLE (METALLIC) TAPE TO BE USED ABOVE CONDUIT IN TRENCHES CONTAINING ONLY INTERCONNECT CONDUIT.
- CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS, LANDSCAPING AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION.
- ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
- 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.
- 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.
- BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
- ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.
- ALL POLES AND ARMS SHALL BE GALVANIZED AND POWDER COATED GREEN, RAL 6028.
- THE CONTRACTOR SHALL PROVIDE PHOTOGRAPHIC EVIDENCE SHOWING THE INSTALLED DEPTH OF THE GROUND PLATE/ROD WITH RESPECT TO FINISHED GRADE AND DISTANCE FROM THE CONCRETE BASE AS DETAILED IN THE MMCD.
- SEE B.C. HYDRO REGULATIONS FOR SERVICE CONNECTION DETAILS.
- CONTRACTOR TO ARRANGE FOR EXACT SERVICE LOCATION WITH B.C. HYDRO PRIOR TO COMMENCING CONSTRUCTION.

NOT FOR CONSTRUCTION
2026-05-08

EXISTING STREET LIGHTING SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. IF TRAFFIC SIGNAL DE-ENERGIZATION IS REQUIRED CONTRACTOR SHALL ENSURE FULL-TIME FLAGGING IS USED DURING ANY TRAFFIC SIGNAL DOWNTIME.

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

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 DMD DIGITAL DRAWINGS. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING EQUIPMENT.

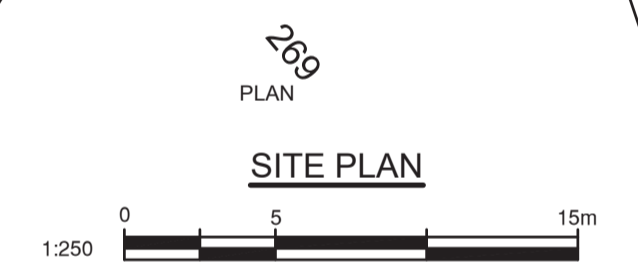
CHECK BEFORE YOU DIG
CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES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

ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

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.

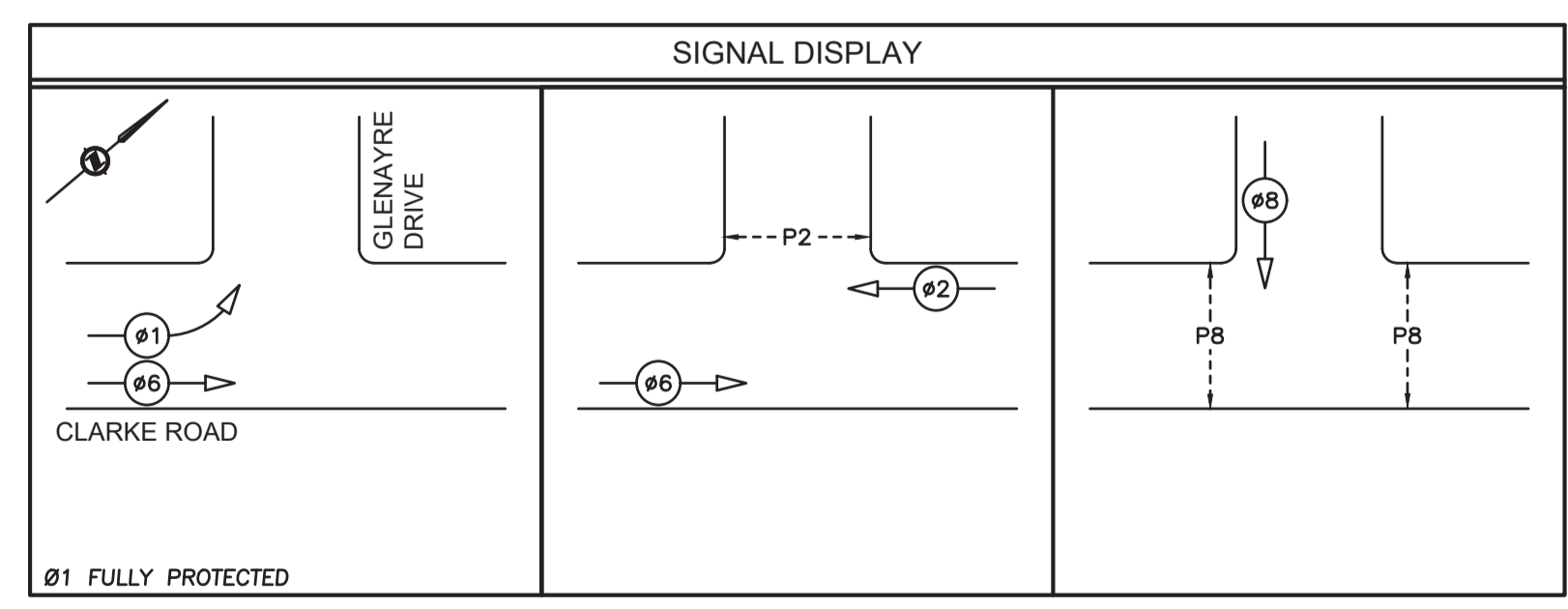
EXISTING INFORMATION SHOWN WAS TAKEN FROM THE EXISTING CITY AS-BUILT DRAWINGS. DETAILS ON DRAWINGS ONLY SHOW CHANGES REQUIRED AND MAY NOT ACCURATELY REPRESENT WHAT EXISTS IN FIELD



INTERSECTION DESIGN CRITERIA

INTERSECTION (NAME)	CLARKE ROAD	GLENAYRE DRIVE
LAND USE CLASSIFICATION	RESIDENTIAL	RESIDENTIAL
ROAD CLASSIFICATION AND ROAD WIDTH	ARTERIAL - 16.7m	COLLECTOR - 12.8m
PEDESTRIAN ACTIVITY LEVEL	MEDIUM	
ILLUMINANCE RECOMMENDED/DELIVERED	22.0 LUX	35.6 LUX
UNIFORMITY RECOMMENDED/DELIVERED	3.0:1	1.8:1
LIGHT LOSS FACTOR	0.84	
SPACING	AS SHOWN	
EQUIPMENT:		
FIXTURE TYPE: LED	WATTAGE: 117W	MTG. HEIGHT: VARIES
IES FILE:	NXT-72-0-X-5-XX-3-XX-XX-X	MODEL: LIVEABLE CITIES NXT
FIXTURE TYPE: LED	WATTAGE: 78W	MTG. HEIGHT: 7.5m
IES FILE:	NXT-72-0-X-3-XX-3-XX-XX-X	MODEL: LIVEABLE CITIES NXT
FIXTURE TYPE: LED	WATTAGE: 41W	MTG. HEIGHT: 5m
IES FILE:	NXT-24-0-X-5-XX-3-XX-XX-X	MODEL: LIVEABLE CITIES NXT

** BASED ON A 20-YEAR FIXTURE LIFE AND 10 YEAR CLEANING CYCLE



Benchmark:
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.
#12-11508 104th Avenue, Surrey, BC, Canada V4N 0A3
www.dmdeng.com 604-589-9010
office@dmdeng.com Fax 604-589-9012
DMD PROJECT No. 8689-26-01 of 02

No.	Date	By	Revisions
2026-05-08	TP		ISSUED FOR TENDER
2026-04-10	TP		90% SUBMISSION
2026-02-12	TP		PRELIMINARY DESIGN

ACCEPTED FOR CONSTRUCTION
Date: _____
Manager of Development Servicing

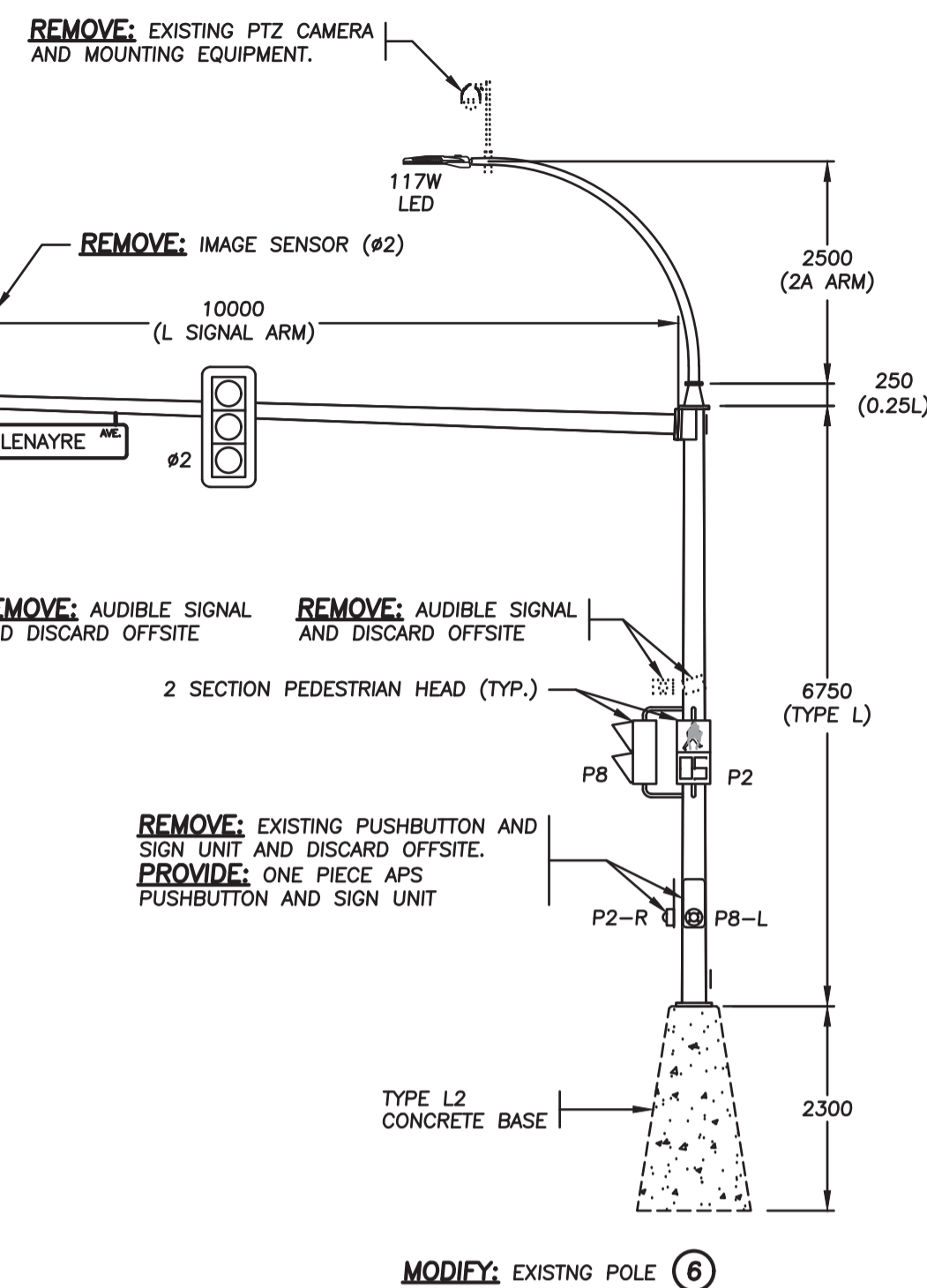
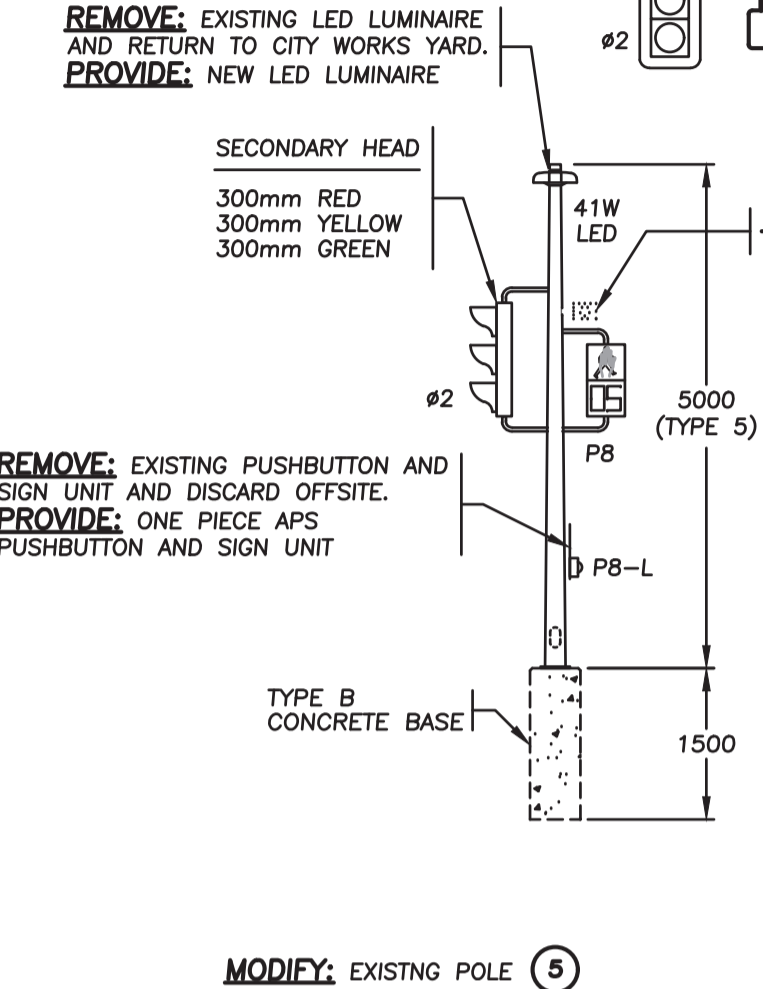
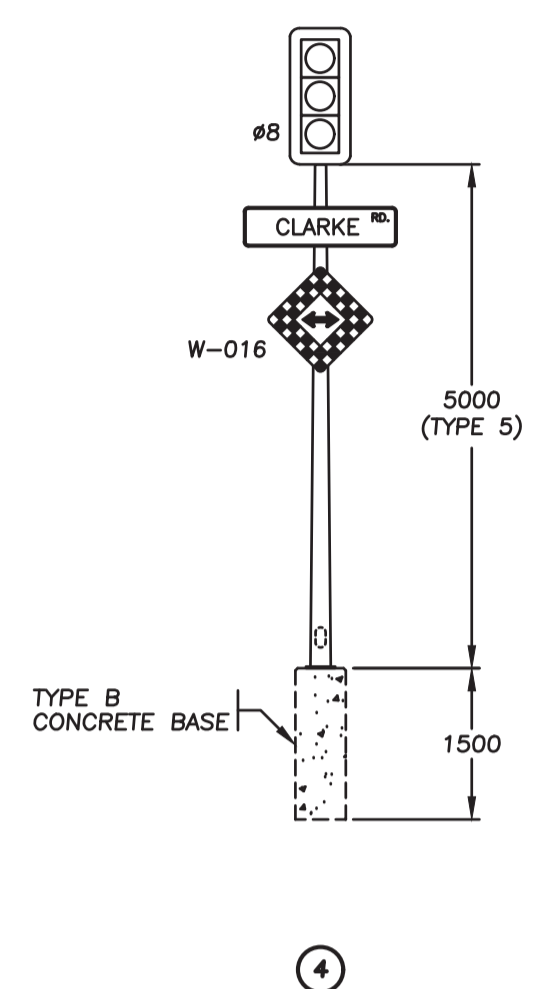
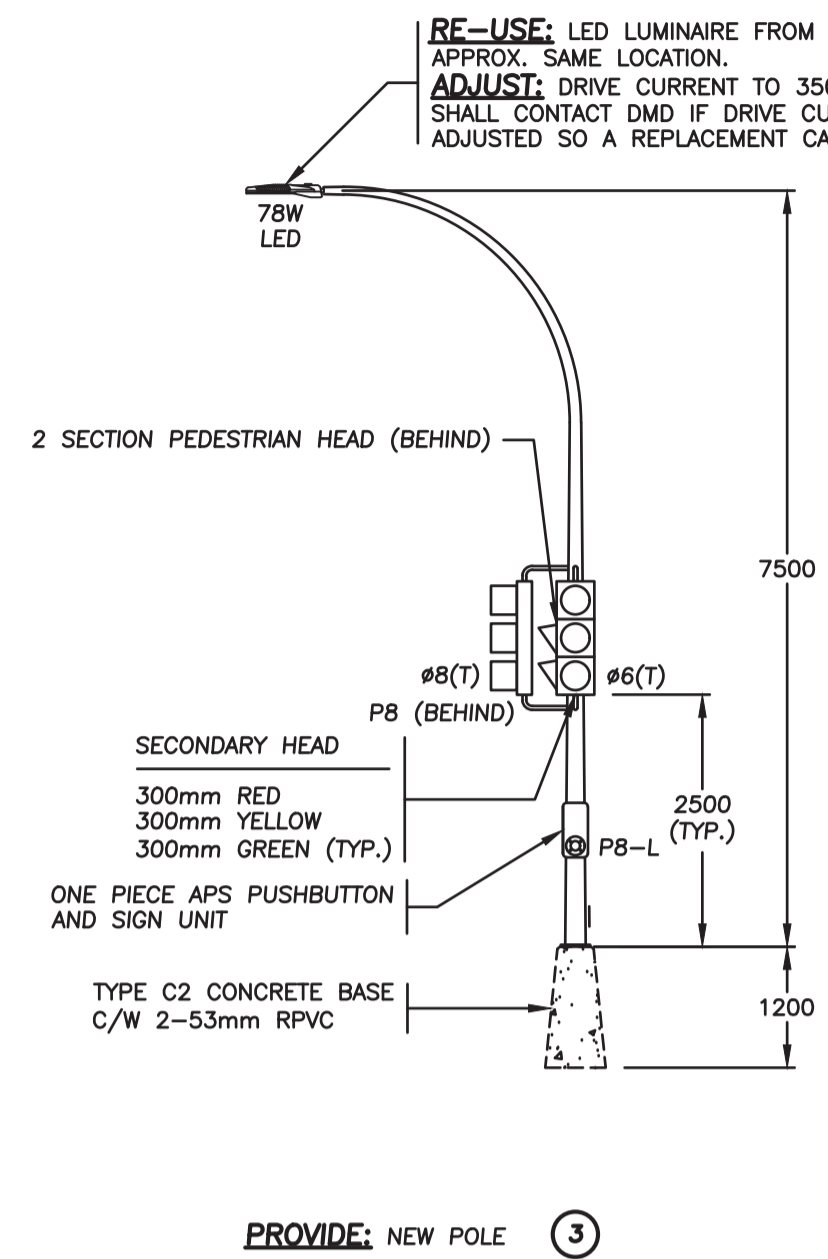
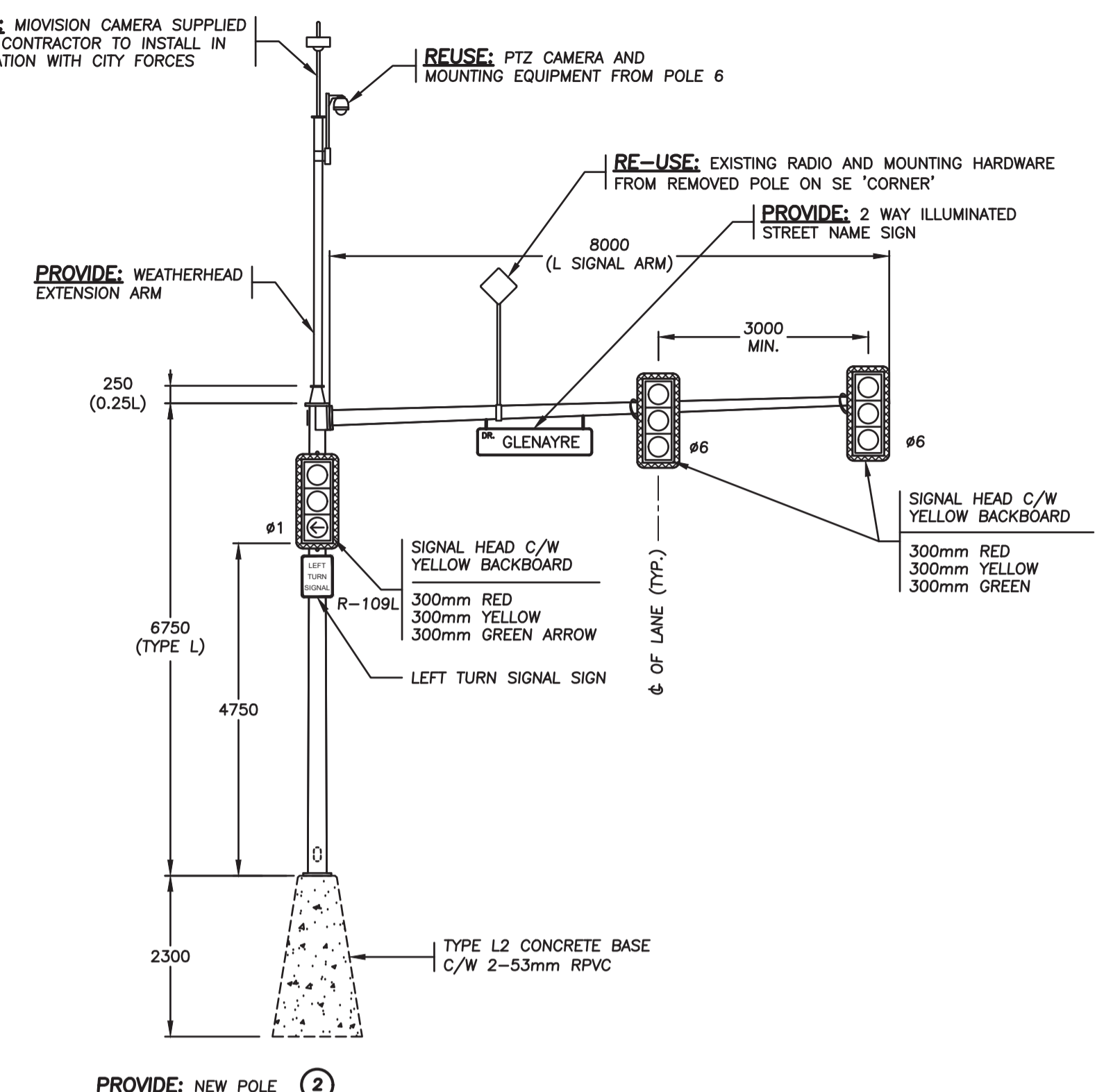
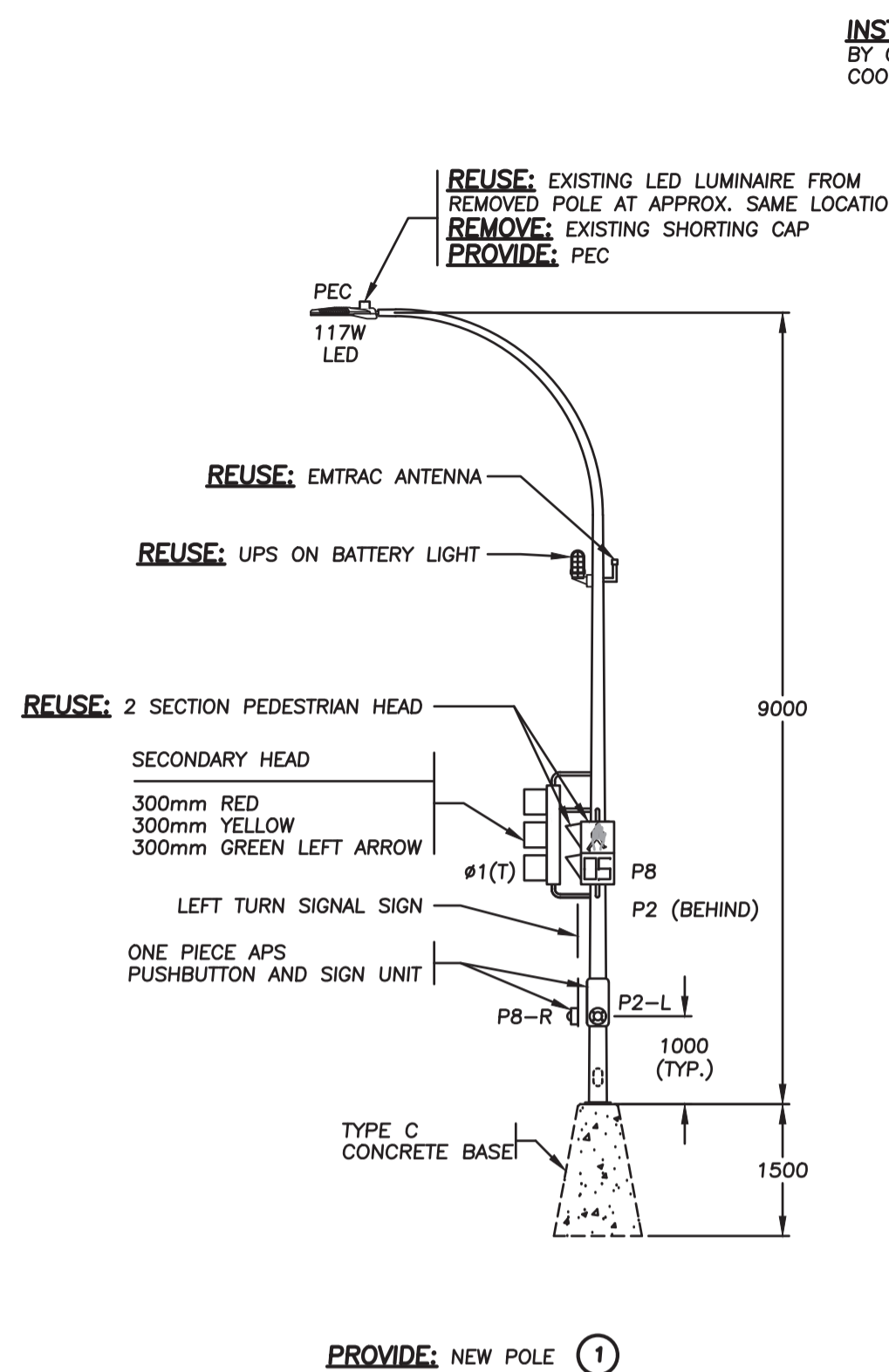
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

PERMIT TO PRACTICE
Signature: _____
Date: _____
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia



Design by	Date	Scale
TP	21-01-2026	1:250
Drawn by	Date	Sheet of
AW	21-01-2026	1 OF 2
Checked by	Date	Eng. Project No.
CB	21-01-2026	
Approved by	Date	
MC	21-01-2026	

Project: **GLENAYRE DRIVE CLARKE ROAD**
Description: **TRAFFIC SIGNAL MODIFICATION**
File: 8689-26-TS



CONTRACTOR IS REQUIRED TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR ALL NEW POLE(S). 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.



LUMINAIRE SCHEDULE			
PRODUCT	MANUFACTURER	SPECIFICATION	EXCEPTIONS
ROADWAY LUMINAIRES	LIVEABLE CITIES	41W: NXT-24S-0-7-2ES-5-GY-3-UL-S-2H	C/W SHORTING CAP(PHOTOCELL WHERE NOTED) AND NEMA WATTAGE LABEL

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

- 2-WAY ILLUMINATED STREETNAME SIGN
- POLARA NAVIGATOR INS2 SYSTEM

ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.

ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

EXISTING INFORMATION SHOWN WAS TAKEN FROM THE EXISTING CITY AS-BUILT DRAWINGS. DETAILS ON DRAWINGS ONLY SHOW CHANGES REQUIRED AND MAY NOT ACCURATELY REPRESENT WHAT EXISTS IN FIELD

REFER TO THE CITY OF COQUITLAM TRAFFIC SIGNAL APPROVED PRODUCTS LIST FOR ALL EQUIPMENT DETAILS. IF ANYTHING IS NOT LISTED, COORDINATE WITH CITY TRANSPORTATION GROUP.

THE CONTRACTOR SHALL COORDINATE ALL TERMINATION IN THE TRAFFIC CONTROLLER WITH THE CONTRACT ADMINISTRATOR.

THE CITY OF COQUITLAM SHALL BE RESPONSIBLE FOR PROGRAMMING CHANGES TO THE TRAFFIC SIGNAL INCLUDING THE VIDEO DETECTION SYSTEM. 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.

NOT FOR CONSTRUCTION
2026-05-08



COQ. ASBUILT No. EXXXX

Benchmark:
Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

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www.dmdeng.com 604-589-9010
office@dmdeng.com Fax 604-589-9012
DMD PROJECT No. 8689-26-02 of 02

No.	Date	By	Revisions
2026-05-08	TP		ISSUED FOR TENDER
2026-04-10	TP		90% SUBMISSION
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ACCEPTED FOR CONSTRUCTION
Date: _____
Manager of Development Servicing

Coquitlam
Engineering & Public Works
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PERMIT TO PRACTICE
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Design by TP	Date 21-01-2026	Scale 1:75
Drawn by AW	Date 21-01-2026	Sheet of 2 OF 2
Checked by CB	Date 21-01-2026	Eng. Project No.
Approved by MC	Date 21-01-2026	

Project: GLENAYRE DRIVE CLARKE ROAD
Description: TRAFFIC SIGNAL MODIFICATION
File: 8689-26-TS