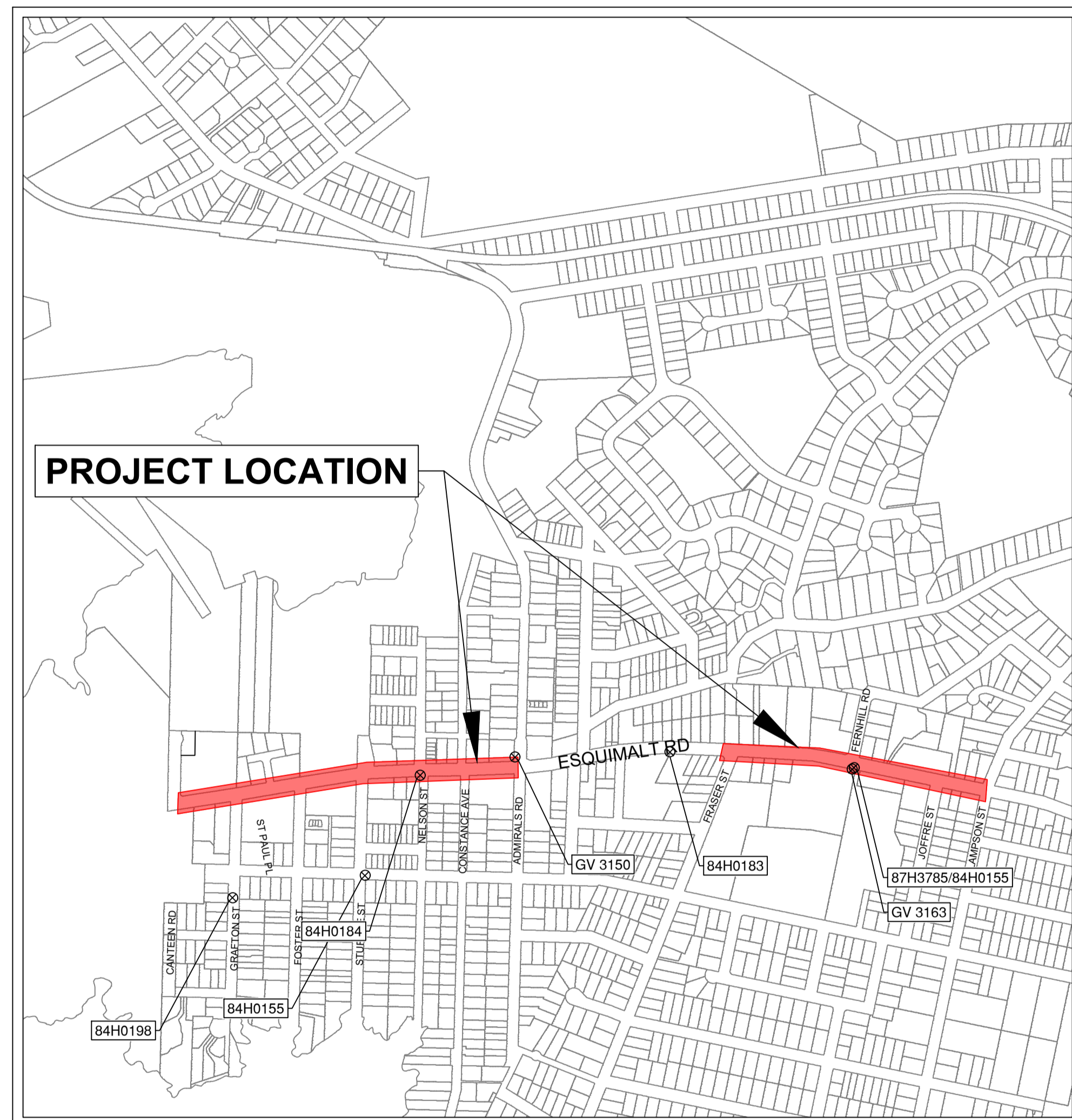


# TOWNSHIP OF ESQUIMALT

## ACTIVE TRANSPORTATION IMPROVEMENTS & UNDERGROUND UPGRADES PHASE 2

ISSUED FOR TENDER



LOCATION PLAN

PROJECT SURVEY CONTROL				
NAME	TYPE	NORTHING	EASTING	ELEVATION
84H0198	MONUMENT	366,202.796	468,878.414	16.186
84H0151	MONUMENT	366,238.375	469,090.139	24.025
84H0184	MONUMENT	366,242.974	469,178.393	24.779
GV 3150	CONTROL NAIL	366,271.956	469,329.898	23.906
84H0183	MONUMENT	366,280.305	469,577.603	24.535
GV 3163	CONTROL NAIL	366,252.691	469,869.041	22.123
87H3785	MONUMENT	366,255.062	469,871.991	22.080
84H0155	MONUMENT	366,255.056	469,872.028	22.082

DRAWING SCHEDULE		
SHEET NUMBER	SHEET TITLE	DESCRIPTION
00		
01	GENERAL NOTES	
02	LEGEND	
03	ROADWORKS	STA 11+000 TO STA 11+130
04	ROADWORKS	STA 11+130 TO STA 11+280
05	ROADWORKS	STA 11+280 TO STA 11+420
06	ROADWORKS	STA 11+420 TO STA 11+560
07	ROADWORKS	STA 12+000 TO STA 12+140
08	ROADWORKS	STA 12+140 TO STA 12+280
09	ROADWORKS	STA 12+280 TO STA 12+420
10	CIVIL DETAILS	TYPICAL DETAILS
11	CIVIL DETAILS	MMCD SUPPLEMENTALS
12	CIVIL DETAILS	MMCD SUPPLEMENTALS
13	CIVIL DETAILS	CURB RETURNS
14	UTILITY PLAN	STA. 11+000 TO 11+180 AND STA. 11+520 TO 11+560
15	UTILITY PLAN	STA. 12+000 TO STA. 12+280
16	UTILITY PLAN	STA. 12+280 TO STA. 12+420



**GENERAL NOTES:**

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH:
  - THE MASTER MUNICIPAL CONSTRUCTION DOCUMENT AND STANDARD DETAIL DRAWINGS (MMCD 2019 "PLATINUM EDITION"), EXCEPT AS OTHERWISE NOTED IN THESE DRAWINGS OR THE CONTRACT DOCUMENTS;
  - APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED THEREIN;
  - MINISTRY OF TRANSPORTATION "BC TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS", LATEST EDITION;
  - AND
  - WORKSAFEBC, LATEST EDITION.
  - TOWNSHIP OF ESQUIMALT SUBDIVISION AND DEVELOPMENT SERVICING BYLAW
- THE CONTRACTOR SHALL MAINTAIN ON SITE COPIES OF THE ABOVE DOCUMENTS AND SHALL ENSURE THAT ALL SUB CONTRACTORS ARE THOROUGHLY FAMILIAR WITH THE APPLICABLE SECTIONS OF THE DOCUMENTS.
- 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.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING ROAD SURFACES, SERVICES, SIGNS, LANDSCAPING, DRIVEWAY LETDOWNS, PRIVATE LANDSCAPING, OR PRIVATE IMPROVEMENTS THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION. REPAIRS TO EXISTING TOWN SERVICES SUCH AS WATER, SANITARY SEWER, STORM SEWER, AND STREET OR TRAFFIC LIGHTING MAY BE MADE BY THE OWNER AT COST TO THE CONTRACTOR. REPAIRS TO EXISTING SURFACE WORKS MAY BE DONE BY THE CONTRACTOR AT THE DISCRETION OF THE CONTRACT ADMINISTRATOR.
- REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR A MIN 72 HOURS PRIOR TO CONSTRUCTION TO ENSURE THAT THE LINE AND GRADE OF THE PROPOSED WORK CAN BE ADJUSTED TO SUIT FIELD CONDITIONS AS REQUIRED.
- RESTORATION OF EXISTING DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO TOWN SPECIFICATIONS AND TO BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT.
- 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, SURVEY PINS, OR LEAD PLUGS 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 OWNER'S ENGINEERING AND OPERATIONS DEPARTMENT AT LEAST FIVE (5) BUSINESS DAYS IN ADVANCE OF SCHEDULING WORK.
- ALL ELEVATIONS ARE GEODETIC AND REFERENCED TO INTEGRATED SURVEY MONUMENT ELEVATIONS LOCATED ON ROAD RIGHT-OF-WAYS.
- ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS SHALL BE KEPT IN A CLEAN STATE AT ALL TIMES AND FREE OF EQUIPMENT AND MATERIALS AT ALL TIMES WHEN CONSTRUCTION ACTIVITY IS NOT UNDERWAY. DUST CONTROL MEASURES SHALL ALSO BE EMPLOYED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- 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 CONTRACT ADMINISTRATOR A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY WARM MIX ASPHALT PATCHING TO MMCD REQUIREMENTS AT LOCATIONS SPECIFIED IN THE CONTRACT DOCUMENTS. TEMPORARY ASPHALT PATCHING THICKNESS SHALL MATCH THE EXISTING ASPHALT THICKNESS WITH A MINIMUM OF 75mm AND SHALL MEET THE EXISTING ASPHALT SURFACE. USE OF COLD MIX IS NOT ACCEPTABLE. TEMPORARY PATCHING OF SIDEWALKS AND CURBS AND GUTTERS IS ALSO TO BE MADE WITH WARM MIX AND MEET THE EXISTING SURFACE.
- ALL CONCRETE AND ASPHALT IDENTIFIED FOR REMOVAL IS TO BE DISPOSED OFFSITE UNLESS OTHERWISE NOTED.
- CONTRACTOR TO PROVIDE LAYOUT AND GRADE SHEETS ONE WEEK PRIOR TO CONCRETE WORK. LAYOUT NAILS ARE TO BE INSTALLED ON THE ROADSIDE EDGE OF NEW CURB AND GUTTER, UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR.
- CONTRACTOR TO CONFIRM UNDERGROUND LOCATIONS WITH UTILITY COMPANIES. THE LOCATION AND ELEVATION OF THE EXISTING UNDERGROUND INFRASTRUCTURE SHOWN ON THESE DRAWINGS MAY NOT BE ACCURATE OR COMPLETE. THE ACTUAL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES AND INFRASTRUCTURE MUST BE CONFIRMED BY THE CONTRACTOR PRIOR TO THE START OF ANY EXCAVATION.
- THE LOCATIONS OF EXISTING GAS SERVICES ARE SHOWN APPROXIMATELY BASED ON AVAILABLE RECORDS. EXISTING GAS SERVICE CONNECTIONS BEYOND THOSE INDICATED MAY BE PRESENT WITHIN THE PROJECT EXTENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM UNDERGROUND LOCATIONS WITH UTILITY COMPANIES PRIOR TO THE START OF ANY EXCAVATION.

**CONCRETE NOTES:**

- NO CONCRETE WORKS SHALL BE ALLOWED IF THE CURRENT TEMPERATURE ON SITE IS BELOW 5°C OR ABOVE 32°C.
- IF TEMPERATURES ARE EXPECTED TO DROP BELOW FREEZING WITHIN THE 5 DAY WINDOW FOLLOWING A CONCRETE POUR A THERMO BLANKET WILL BE REQUIRED TO MAINTAIN CONCRETE TEMPERATURES.
- IF CONCRETE IS POURED AT TEMPERATURES ABOVE 25°C IT SHALL BE SPRAYED WITH WATER 5 TIMES PER DAY AT REASONABLE INCREMENTS BETWEEN THE HOURS OF 10am AND 3pm.
- CONCRETE WORKS TO BE COMPLETED DURING RAIN EVENTS MAY BE ALLOWED AT THE DISCRETION OF THE CONTRACT ADMINISTRATOR. IN THE EVENT THAT CONCRETE IS POURED DURING A RAIN EVENT THE CONTRACTOR SHALL PROVIDE A PLASTIC COVERING THAT IS MAINTAINED TO PROTECT THE CONCRETE FOR A MINIMUM OF 24 HOURS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MONITORING OF FRESHLY POURED CONCRETE TO ENSURE NO DAMAGE IS CAUSED. ANY DAMAGE OR DEFAACEMENT OF FRESHLY POURED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

**ENVIRONMENTAL NOTES:**

- ALL INLET STRUCTURES IN PROXIMITY TO TRENCH WORK OR EXPOSED ROAD BASE WILL BE FITTED WITH MANUFACTURED INLET CONTROL DEVICES AND OR 'FILTER SACK' TYPE CATCHBASIN CONTROL (OR APPROVED ALTERNATIVE). CONTROL DEVICES TO BE MAINTAINED IN A FULLY FUNCTIONAL STATE AT ALL TIMES.
- INLET CONTROL DEVICES (I.E. FILTER SACKS) MUST HAVE A MINIMUM 8" DROP FROM SURFACE OF THE CATCHBASIN.
- UNDER NO CIRCUMSTANCES ARE CATCHBASINS TO BE FITTED WITH GEOTEXTILE SHEATHS CUT FROM STOCKPILE ROLLS.
- AVOID EARTH DISTURBING ACTIVITIES DURING SUBSTANTIAL RAIN EVENTS.
- AVOID STOCKPILING SOILS, SANDS AND OTHER ERODIBLE MATERIALS ONSITE. IT IS PREFERABLE TO "HOT-LOAD" SOIL DIRECTLY INTO TRUCKS FOR OFFSITE DISPOSAL. IF TEMPORARY WASTE OR SOIL STOCKPILES ARE NECESSARY, MAKE SURE THEY ARE FULLY COVERED WITH TARPS AND WEIGHTED WITH SANDBAGS.
- TRACKING OF SEDIMENT, SOIL AND/OR ROADBASE FROM WORKSITE TO VEHICLE TRAVEL LANES MUST BE PREVENTED.
- ROADS MUST BE SWEEPED CLEAN OF SOIL, LOOSE ROAD BASE, EARTH AND SEDIMENT. MECHANICAL SWEEPING IS PREFERRED TO MANUAL SWEEPING. HOWEVER, FREQUENT HAND SWEEPING IS PREFERABLE TO ONCE DAILY MECHANICAL SWEEPING.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SEDIMENT OR SEDIMENT LADEN WATER IS DISCHARGED FROM THE WORKS TO THE OWNER'S DRAINAGE SYSTEM.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP AND PROVIDE TO THE OWNER THE FOLLOWING ENVIRONMENTAL SUBMITTALS WITHIN 15 DAYS AFTER NOTICE OF AWARD:
  - SPILL RESPONSE PLAN THAT PROVIDES WRITTEN SAFE WORK PROCEDURES IN THE EVENT OF A SPILL
    - AN EMERGENCY SPILL KIT WILL BE KEPT ONSITE AT ALL TIMES THE CONTRACTOR IS OPERATING. SPILL KITS MUST INCLUDE BOOMS, SPILL PADS, GLOVES, AND CATCHBASIN BARRIERS. A SPILL KIT WITH AT LEAST 125 LITRES ABSORBENCY IS RECOMMENDED. SANDBAGS AND A SUPPLY OF SAND MUST BE KEPT ONSITE.
    - AN EROSION AND SEDIMENT CONTROL PLAN (ESC).
- THE CONTRACTOR IS TO HAVE ONSITE SODIUM THIOSULPHATE TO TREAT CHLORINATED WATER IN THE EVENT OF A WATER MAIN BREAK.

**TRAFFIC MANAGEMENT, NOTIFICATION AND APPROVALS NOTES:**

- THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNAGE, BARRIERS, FLASHING INDICATORS ACCORDING TO MOTI, BC TRAFFIC MANAGEMENT MANUAL FOR WORK ON ROADWAYS (LATEST EDITION) & WORKSAFE BC REGULATIONS 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 WRITTEN CONSENT FROM THE TOWNSHIP OF ESQUIMALT.
- 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.
- THE CONTRACTOR SHALL ARRANGE FOR, AND COORDINATE THE WORKS DONE BY:
  - OWNER; AND
  - FRANCHISE UTILITIES.
- THE CONTRACTOR SHALL MAKE CONTACT WITH 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 SHALL BE GIVEN MINIMUM 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. LETTER TO DIRECT INQUIRIES TO CONTRACT ADMINISTRATOR. FOLLOWING CONSTRUCTION ACTIVITY ON ANY PRIVATE PROPERTY, A WRITTEN RELEASE MAY BE REQUIRED FROM THE PROPERTY OWNER AT THE DISCRETION OF THE OWNER.
- ACCESS TO ALL PRIVATE PROPERTIES AND BUSINESSES MUST BE MAINTAINED FOR VEHICULAR AND PEDESTRIAN TRAFFIC. WHERE ACCESS IS AFFECTED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 24 HOUR NOTICE TO ANY RESIDENT OR BUSINESS BEFORE STARTING WORK
- A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRECONSTRUCTION MEETING AND APPROVED PRIOR TO ISSUE OF NOTICE TO PROCEED.
- CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT PLAN (TMP), WHICH ENSURES SINGLE LANE ALTERNATING TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. NO PROVISIONS FOR TRAFFIC DELAYS SHALL BE MADE OTHER THAN THOSE REQUIRED TO ALLOW TRAFFIC TO FLOW IN THE ALTERNATE DIRECTION.
- 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 CONTRACTOR.
- APPROVAL OF NOISE VARIANCE FOR ALL WORK OUTSIDE OF NORMAL APPROVED WORK HOURS REQUIRED BY THE OWNER.
- LAP JOINTS ARE TO BE INSTALLED AT ALL LIMITS OF CONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETION OF ALL 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 ARE TO BE REMOVED IMMEDIATELY FOLLOWING INSTALLATION OF THE PERMANENT MARKINGS.
- APPROVALS FOR REQUIRED TREE CUTTING OR TRIMMING NOT INDICATED IN CONTRACT DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR FROM THE OWNER PRIOR TO WORK BEING PERFORMED.

**SIGNAGE AND PAVEMENT MARKING NOTES:**

- ALL PAVEMENT MARKINGS AND SIGNS PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION UNLESS STATED OTHERWISE. ALL RAIL SIGNS PER TRANSPORT CANADA GRADE CROSSING STANDARDS (JANUARY, 2019). ALL REGULATORY AND SAFETY SIGNAGE PER TRANSPORTATION ASSOCIATION OF CANADA'S BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, LATEST EDITION UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- ALL SIGNS TO BE DIAMOND GRADE.
- ALL PAVEMENT MARKINGS ARE NOT TO SCALE.
- CONFLICT PAINT METHYL-METHACRYLATE (MMA):
  - ULTRA-VIOLET ("UV") STABLE;
  - ISO CERTIFIED DURABLE ROAD MARKING MATERIAL;
  - HAVE MINIMUM SKID RESISTANCE OF 49 BPN;
  - COLOUR MUST MATCH THE TOWNSHIP'S CURRENT GREEN TINT (PANTONE #368) WHICH CONFORMS TO THE NEW FHWA FLUORESCENT GREEN STANDARDS; AND
  - GLASS BEADS MUST CONFORM TO AASHTO M247 TYPE 1 (STANDARD GRADATION) SPECIFICATIONS.
- WHITE AND YELLOW PAVEMENT MARKINGS WITHIN MMA CONFLICT PAINT TO BE MMA.
- ALL BIKE STENCILS INCLUDING BIKE SYMBOLS, SHARROWS, DIRECTIONAL CHEVRONS, RESERVED SYMBOL DIAMONDS AND ARROWS, ETC. SHALL BE PERFORMED TORCH ON THERMOPLASTIC STENCILS THAT WILL REQUIRE SURFACE CLEANING/HEATING AND APPLICABLE SEALER APPLIED BEFORE APPLICATIONS. SEALER SHALL ONLY BE OMITTED WHEN NEW ASPHALT IS HIGHLIGHTED WITHIN OUR CIVIL SCOPE FOR THE STENCIL LOCATION.
- ALL SIGNPOST HARDWARE TO BE STAINLESS STEEL C/W 2 WASHERS PER BOLT AND A VINYL LOCKING NUT. NUTS SHALL BE REPLACED IF REMOVED.
- ALL NEW SIGN INSTALLATIONS IN BOULEVARD LOCATIONS SHALL INCLUDE A PROPER BASE AND SITE PREPARATION TO PREVENT MOVEMENT.
- ALL SIGN POSTS SHALL HAVE A SLEEVE INSTALLED C/W SUITABLE BOLT (TO PREVENT SIGN ROTATION) WITH SUFFICIENT THREADS TO ALLOW VINYL LOCKING NUT TO BE FULLY THREADED.

**COORDINATION NOTES:**

- CONTRACTOR SHALL COORDINATE WITH TOWNSHIP FORCES, PRIVATE DEVELOPMENTS AND OTHER RELEVANT PARTIES FOR THE DURATION OF THE PROJECT SCHEDULE. THIS MAY INCLUDE BUT IS NOT LIMITED TO SHARED ROAD OCCUPANCY WITH THIRD PARTY CONTRACTORS WHILE COMPLETING WORKS ON THE RIGHT OF WAY AND WHILE ACCESSING PRIVATE PROPERTY. THE CONTRACTOR SHALL ALLOW FOR THIS OCCUPANCY AND COORDINATE THEIR WORKS TO MITIGATE ANY CONFLICTS WHILE MAINTAINING PUBLIC ACCESS TO THE RIGHT OF WAY.

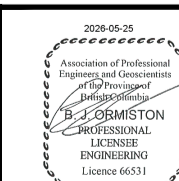
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PLOT DATE: May 22, 2026

REV NO	REVISIONS	DATE	DRAWN	APPRD
0	ISSUED FOR TENDER	2026/05/22	EJS	BJO
1				
2				
3				
4				



**GENERAL NOTES**



1051 Vancouver St, Victoria, BC V8V 3K3  
T: (250)361-3030 F: (250)361-3755

ISSUED FOR TENDER DESIGN NO.

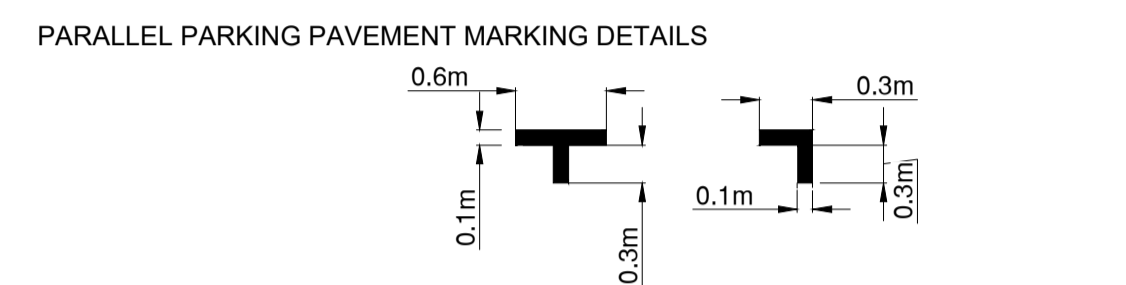
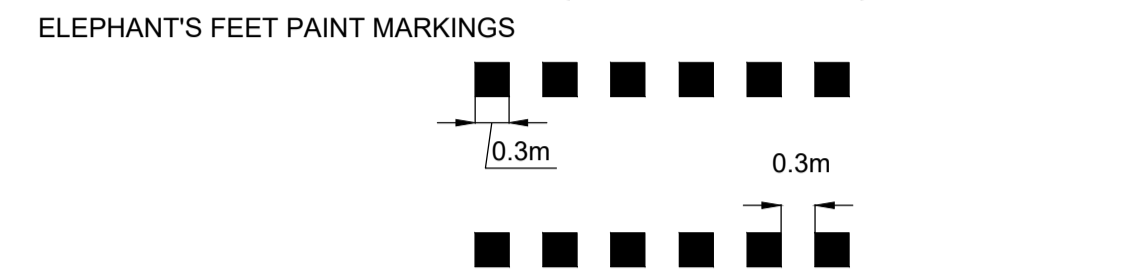
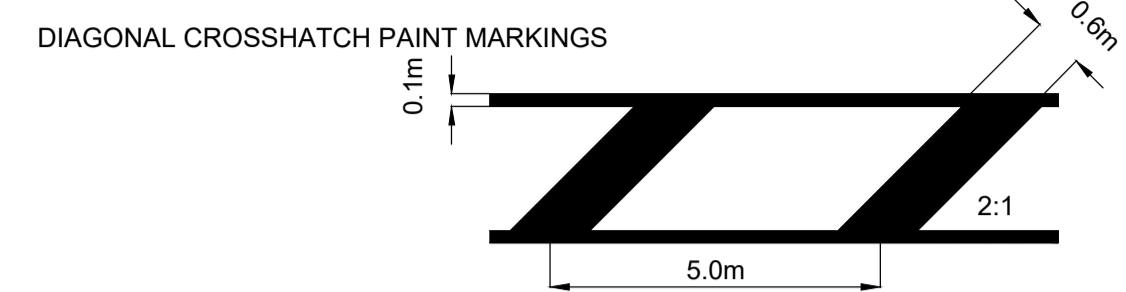
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DRAWN BY EJS	DESIGN BY EJS		01 OF 16
CHECKED BY ECH	APPROVED BY BJO		REV. 0

**33995**

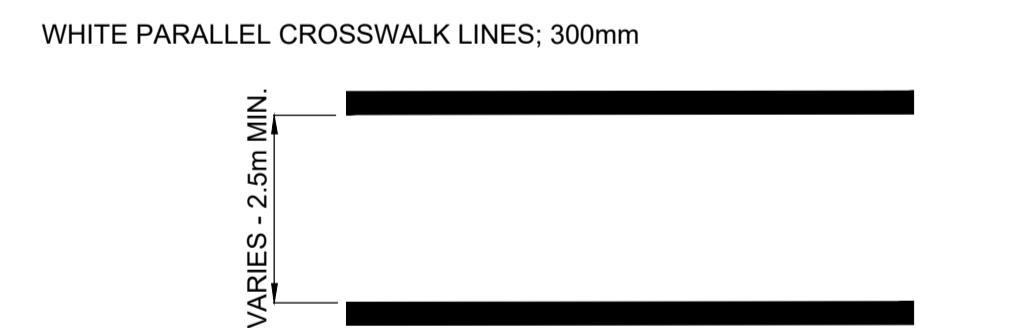
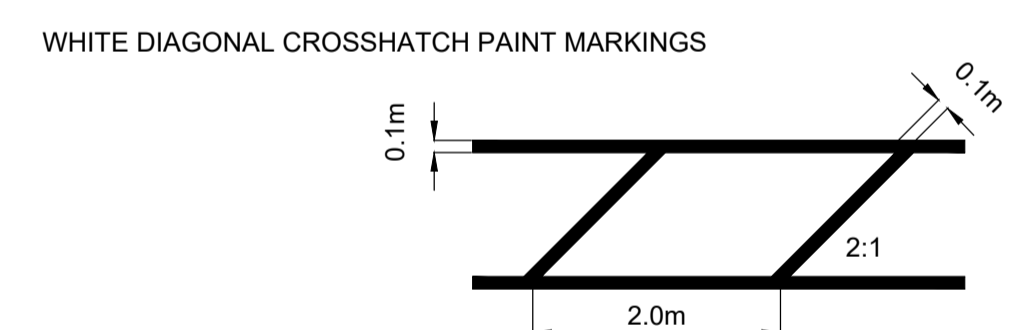
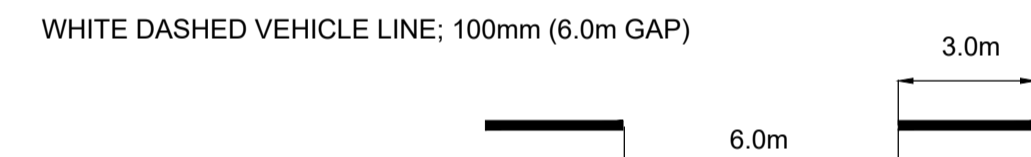
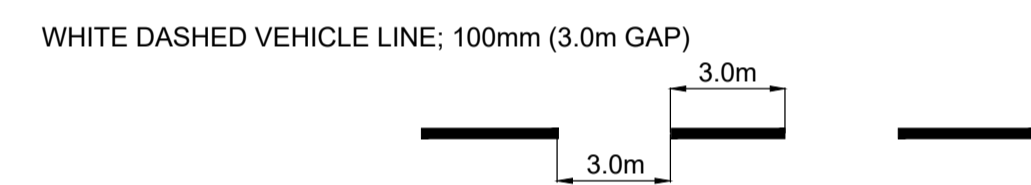
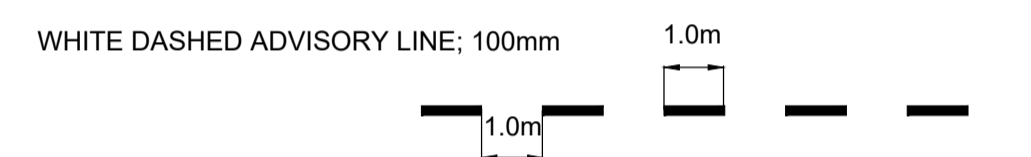
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**PAVEMENT DETAILS**

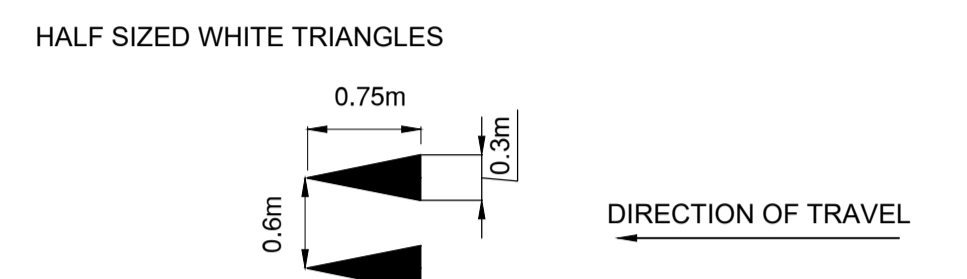
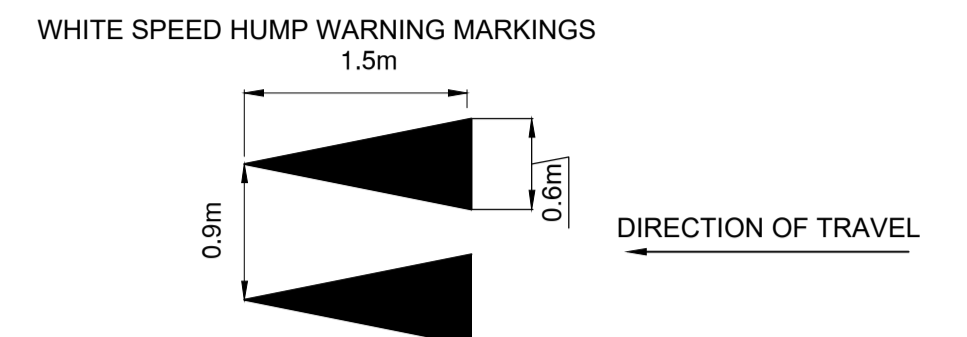
CONFLICT PAINT (FLUORESCENT MMA) 





WHITE BICYCLE STENCIL  WHITE NON-ELONGATED BICYCLE SYMBOL 

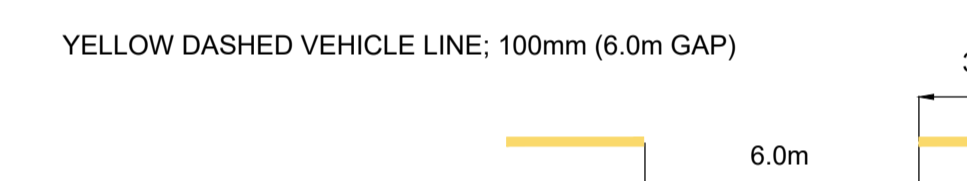
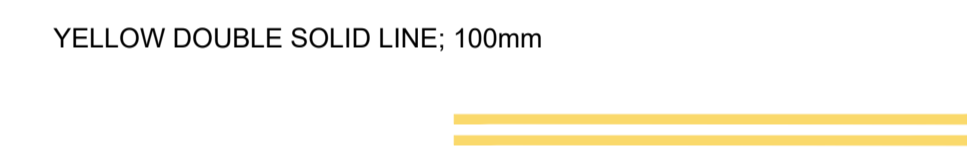
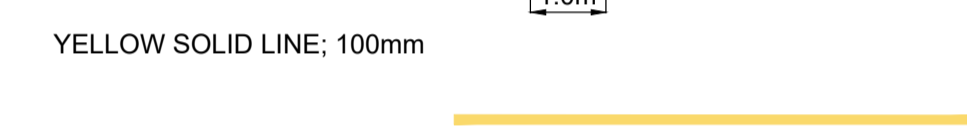
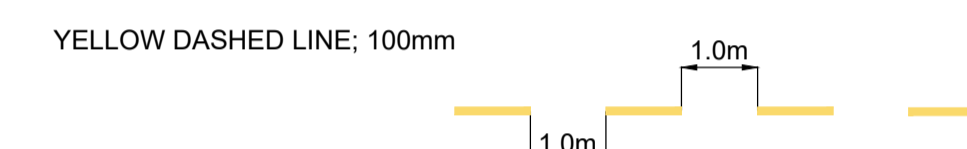


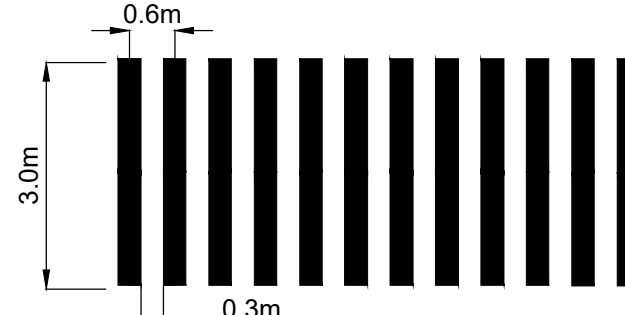
WHITE SOLID LINE; 100mm 

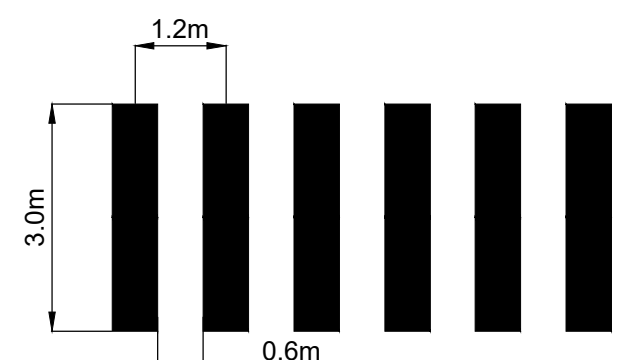


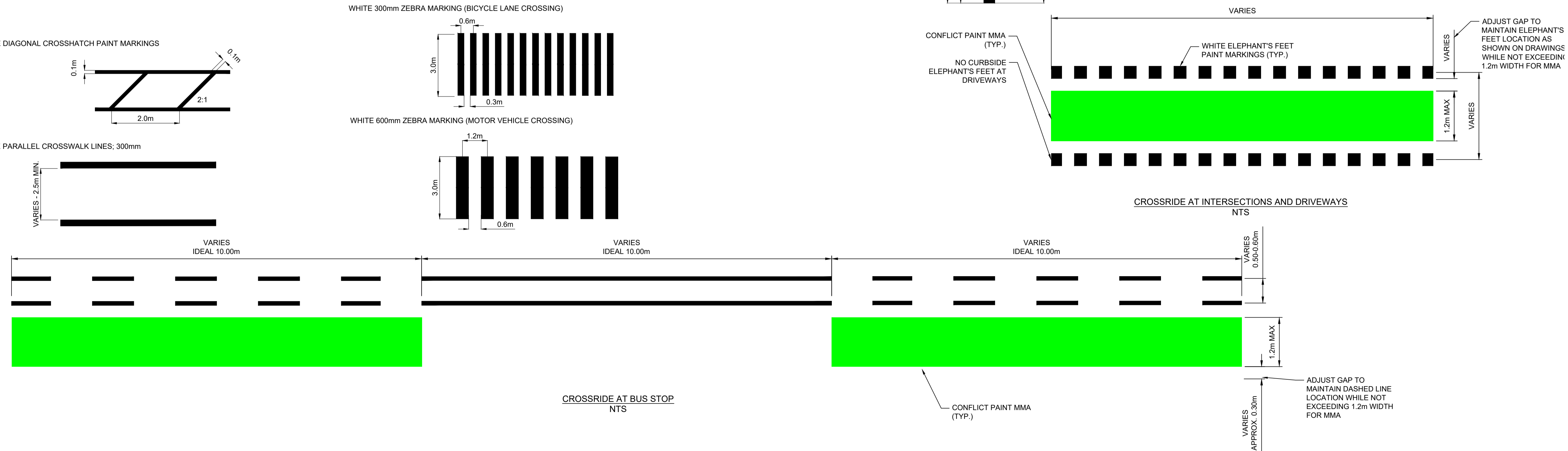
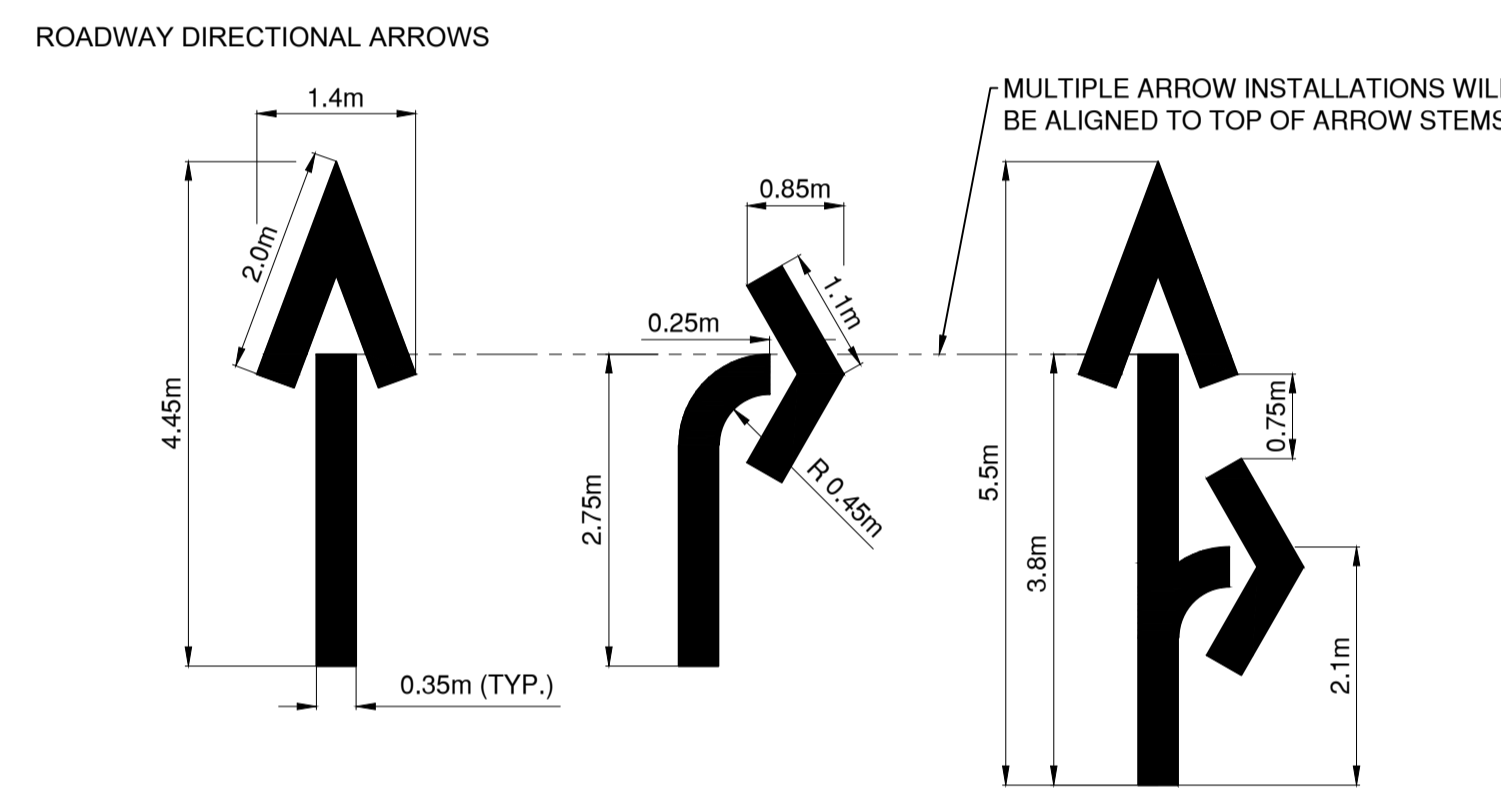
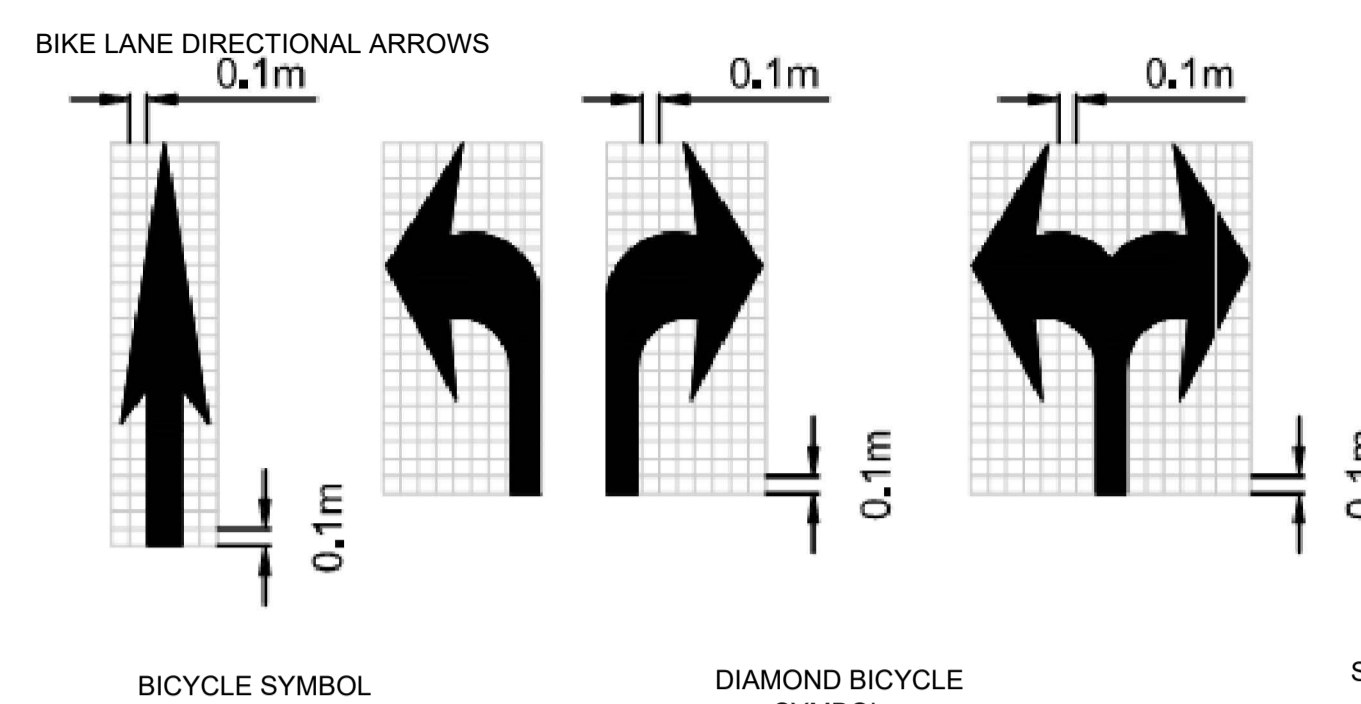
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WHITE BIKE STOP BAR; 300mm 




WHITE 300mm ZEBRA MARKING (BICYCLE LANE CROSSING) 

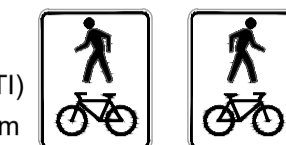
WHITE 600mm ZEBRA MARKING (MOTOR VEHICLE CROSSING) 





**SIGNAGE DETAILS**

RA-1 600mm x 600mm 


RA-4R/L 600mm x 750mm 

R-111-1R/L (CUSTOM MOTI) 600mm x 750mm 

RB-37R/L TWO WAYS (CUSTOM) 600mm x 750mm 


RB-37R ONE WAY (CUSTOM) 600mm x 750mm 


RB-39 300mm x 450mm 


RA-2 (HALF SIZE) 300mm x 300mm 

BIKES MUST TURN LEFT (CUSTOM) 300mm x 375mm 

RB-41R 600mm x 600mm 


RB-91R 600mm x 750mm 

RB-92 600mm x 750mm 

R-106 (MOTI) 600mm x 750mm 

WA-36R/L 300mm x 900mm FULL SIZE 

WA-36R 100mm x 500mm CUSTOM COROPLAST 

WA-50 450mm x 450mm 

WC-43 450mm x 450mm 

WA-36L (KNOCKDOWN) 200mm x 600mm ARTICULATING KNOCKDOWN SIGN 

SEE NOTES ON SHEET 01 FOR SIZING DETAILS

ADJUST GAP TO MAINTAIN ELEPHANT'S FEET LOCATION AS SHOWN ON DRAWINGS WHILE NOT EXCEEDING 1.2m WIDTH FOR MMA

ADJUST GAP TO MAINTAIN DASHED LINE LOCATION WHILE NOT EXCEEDING 1.2m WIDTH FOR MMA

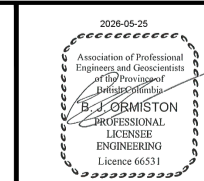
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
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**ROAD WORKS**

**LEGEND**



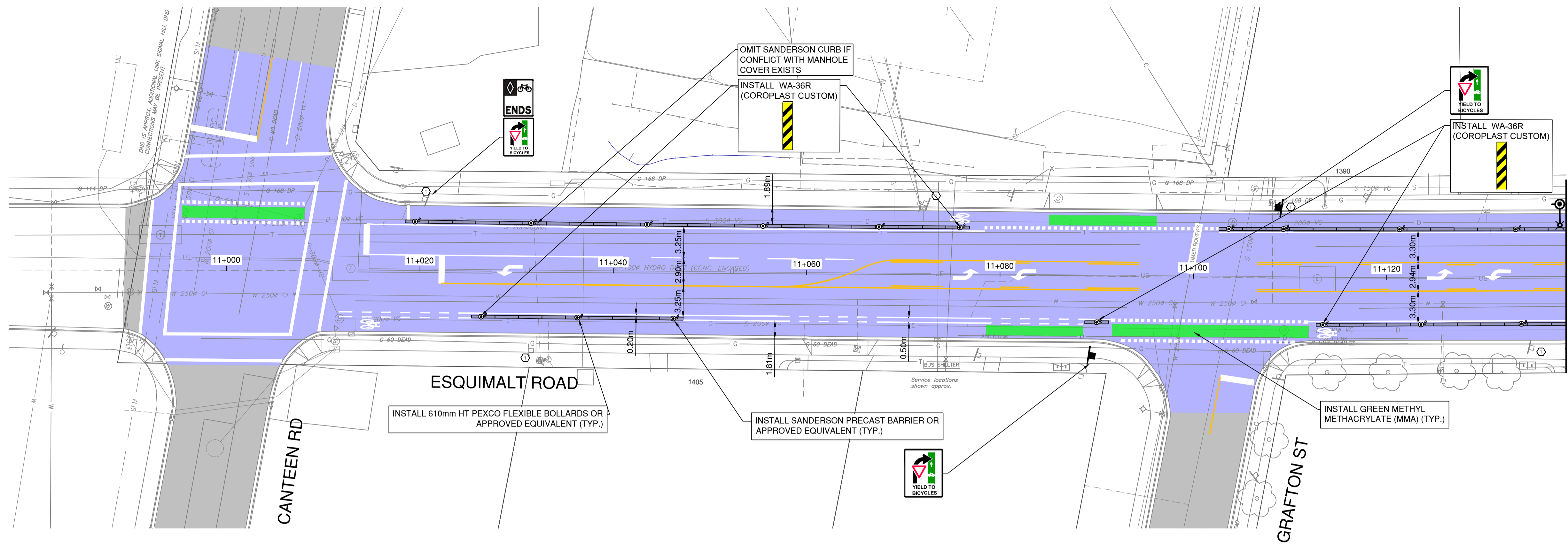
1051 Vancouver St, Victoria, BC V8V 3K3  
T: (250) 561-3230 F: (250) 561-3756

ISSUED FOR TENDER

DESIGN NO.

33995

SCALE	N/A	CREATION DATE	2025/09/19	DWG. NO.
DRAWN BY	EJS	DESIGN BY	EJS	02 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0
PLOT DATE	May 25, 2026			

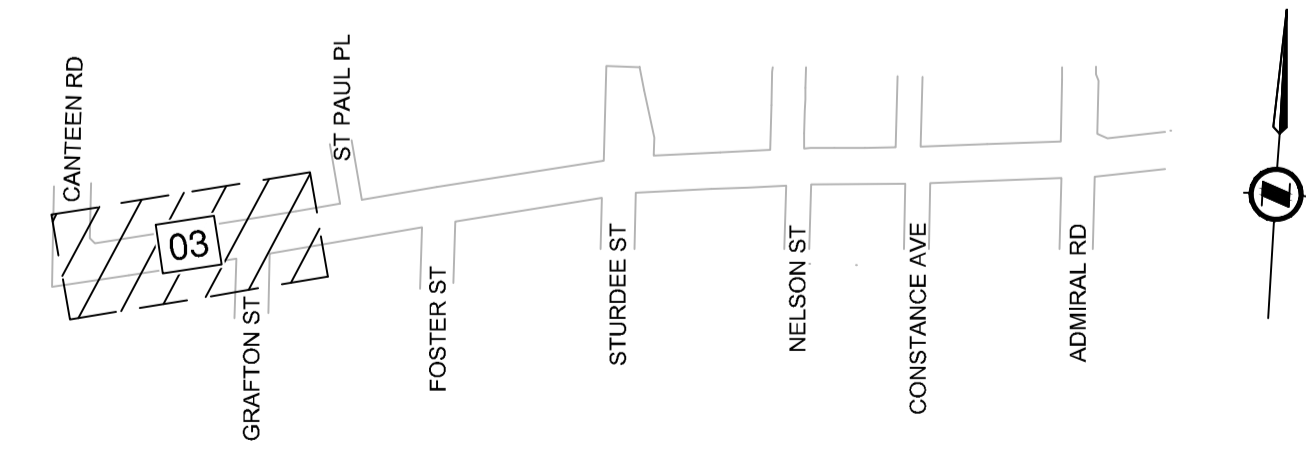


PLAN  
SCALE: 1:250

**DETAILED CONSTRUCTION NOTES:**

- ① REMOVE OR RELOCATE EXISTING SIGN.
- ② ADJUST CASTING TO FINISHED GRADE.

CIVIL LEGEND		CIVIL NOTES	
	CONCRETE INSTALLATION REFER TO DRAWING FOR DETAILS	1.	610mm HT FLEXIBLE BOLLARD: 1.1. MANUFACTURER: PEXCO LLC 1.2. MODEL: CITY POST - SURFACE MOUNT 1.3. COLOUR: WHITE 1.4. REFLECTIVE WHITE BANDS 1.5. CONTRACTOR SUPPLIED
	MILL AND INLAY - REMOVE 50mm AND PLACE 50mm - LIMITS TO BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION	2.	BOLLARD SPACING NOTES: 2.1. FLEXIBLE BOLLARD SPACING TO BE 12.0M C/C (TYPICAL) UNLESS OTHERWISE NOTED. 2.2. BOLLARD SPACING MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITH APPROVAL OF THE CONTRACT ADMINISTRATOR. SPACING SHALL NOT EXCEED 12.0M C/C.
	FUTURE DEVELOPMENT SITE. FUTURE AAA INFRASTRUCTURE TO BE INSTALLED AS A PART OF DEVELOPMENT FRONTAGE.	3.	R7301 STAINLESS STEEL BOLLARD 3.1. MANUFACTURER: RELIANCE FOUNDRY 3.2. TOWNSHIP SUPPLIED
	FULL DEPTH RESTORATION - 100mm OF ASPHALT (TWO LIFTS) ON TOP OF 100mm OF GRANULAR BASE AND 250mm OF GRANULAR SUB BASE	4.	REFER TO CIVIL DETAIL SHEET 13 FOR CURB RETURN PROFILES
	50mm THICK ASPHALT DRIVEWAY CONNECTION/ BIKE LANE	5.	REFER TO LEGEND SHEET 02 FOR PAVEMENT MARKING AND SYMBOL DIMENSIONS
	150mm THICK CONCRETE DRIVEWAY CROSSING	6.	CONTRACTOR TO CONFIRM CONDITION OF EXISTING CATCH BASIN LEADS AND SANITARY SERVICES WITH PUSH CAMERA AND/OR CCTV INSPECTION PRIOR TO CONNECTION
	150mm THICK TOP SOIL AND SEED	7.	PAVEMENT MARKINGS TO BE ERADICATED FROM 7.1. STA 11+010 - STA 11+080   STA. 11+320 - STA. 11+390   STA. 11+410 - STA. 11+460   STA. 12+050 - STA. 12+090   STA. 12+110 - STA. 12+170   STA. 12+210 - STA. 12+260   STA. 12+360 - STA. 12+420 (SHY LINE AND ELEPHANTS FEET) 7.1. LIMITS OF ERADICATION ARE TO BE CONFIRMED IN THE FIELD WITH THE CONTRACT ADMINISTRATOR A MINIMUM OF 5 DAYS PRIOR TO ERADICATION WORK.
	FLEXIBLE BOLLARD REFER TO NOTES FOR PRODUCT INFO		
	PRECAST CONCRETE BARRIER CURB. SHY LINE TO BE AT AN OFFSET OF 200mm UNLESS STATED OTHERWISE		



KEY PLAN



ISSUED FOR TENDER

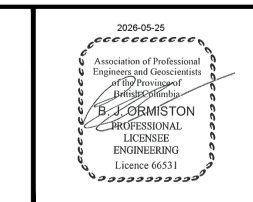
DESIGN NO. **33995**

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
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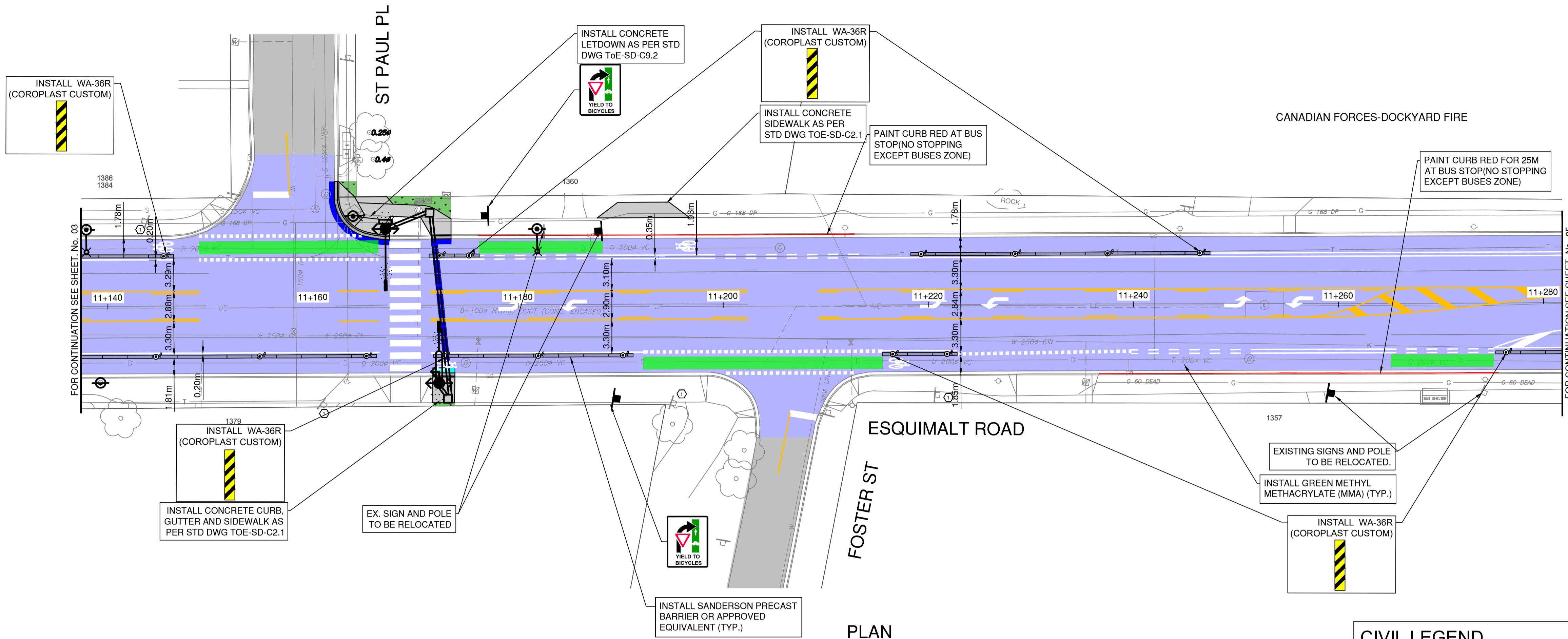
**ROAD WORKS**

**ROADWORK**  
STA 11+000 TO STA 11+130



SCALE	1:250	CREATION DATE	2025/09/19	DWG. NO.
DRAWN BY	EJS	DESIGN BY	EJS	03 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0
PLOT DATE	May 25, 2026			

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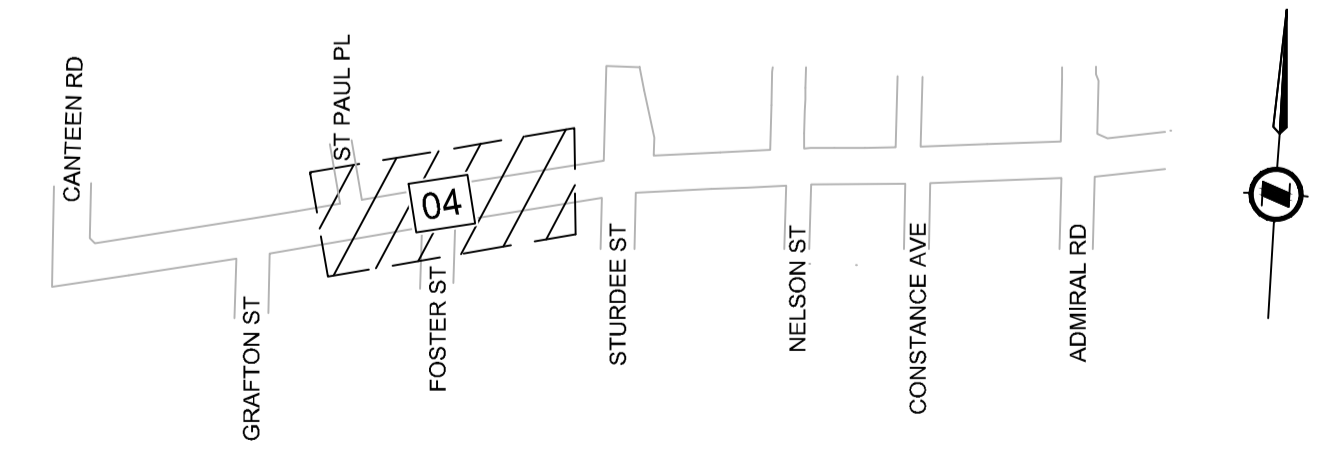


PLAN  
SCALE: 1:250

**DETAILED CONSTRUCTION NOTES:**

- ⊖ REMOVE OR RELOCATE EXISTING SIGN.
- ⊙ ADJUST CASTING TO FINISHED GRADE.

CIVIL LEGEND		CIVIL NOTES	
	CONCRETE INSTALLATION REFER TO DRAWING FOR DETAILS	1.	610mm HT FLEXIBLE BOLLARD: 1.1. MANUFACTURER: PEXCO LLC 1.2. MODEL: CITY POST - SURFACE MOUNT 1.3. COLOUR: WHITE 1.4. REFLECTIVE WHITE BANDS 1.5. CONTRACTOR SUPPLIED
	MILL AND INLAY - REMOVE 50mm AND PLACE 50mm - LIMITS TO BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION	2.	BOLLARD SPACING NOTES: 2.1. FLEXIBLE BOLLARD SPACING TO BE 12.0M C/C (TYPICAL) UNLESS OTHERWISE NOTED. 2.2. BOLLARD SPACING MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITH APPROVAL OF THE CONTRACT ADMINISTRATOR. SPACING SHALL NOT EXCEED 12.0M C/C.
	FUTURE DEVELOPMENT SITE. FUTURE AAA INFRASTRUCTURE TO BE INSTALLED AS A PART OF DEVELOPMENT FRONTAGE.	3.	R7301 STAINLESS STEEL BOLLARD 3.1. MANUFACTURER: RELIANCE FOUNDRY 3.2. TOWNSHIP SUPPLIED
	EXISTING ROAD HATCH SHOWN FOR PAVEMENT MARKING CLARITY. NOT INDICATIVE OF PAVING SCOPE.	4.	REFER TO CIVIL DETAIL SHEET 13 FOR CURB RETURN PROFILES
	FULL DEPTH RESTORATION - 100mm OF ASPHALT (TWO LIFTS) ON TOP OF 100mm OF GRANULAR BASE AND 250mm OF GRANULAR SUB BASE	5.	REFER TO LEGEND SHEET 02 FOR PAVEMENT MARKING AND SYMBOL DIMENSIONS
	50mm THICK ASPHALT DRIVEWAY CONNECTION/ BIKE LANE	6.	CONTRACTOR TO CONFIRM CONDITION OF EXISTING CATCH BASIN LEADS AND SANITARY SERVICES WITH PUSH CAMERA AND/OR CCTV INSPECTION PRIOR TO CONNECTION
	150mm THICK CONCRETE DRIVEWAY CROSSING	7.	PAVEMENT MARKINGS TO BE ERADICATED FROM 7.1. STA 11+010 - STA 11+080   STA. 11+320 - STA. 11+390   STA. 11+410 - STA. 11+460   STA. 12+050 - STA. 12+090   STA. 12+110 - STA. 12+170   STA. 12+210 - STA. 12+260   STA. 12+360 - STA. 12+420 (SHY LINE AND ELEPHANTS FEET) 7.1. LIMITS OF ERADICATION ARE TO BE CONFIRMED IN THE FIELD WITH THE CONTRACT ADMINISTRATOR A MINIMUM OF 5 DAYS PRIOR TO ERADICATION WORK.
	150mm THICK TOP SOIL AND SEED		
	FLEXIBLE BOLLARD REFER TO NOTES FOR PRODUCT INFO		
	PRECAST CONCRETE BARRIER CURB. SHY LINE TO BE AT AN OFFSET OF 200mm UNLESS STATED OTHERWISE		



KEY PLAN



ISSUED FOR TENDER

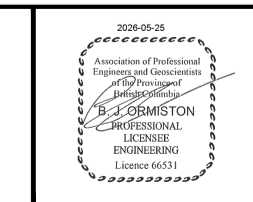
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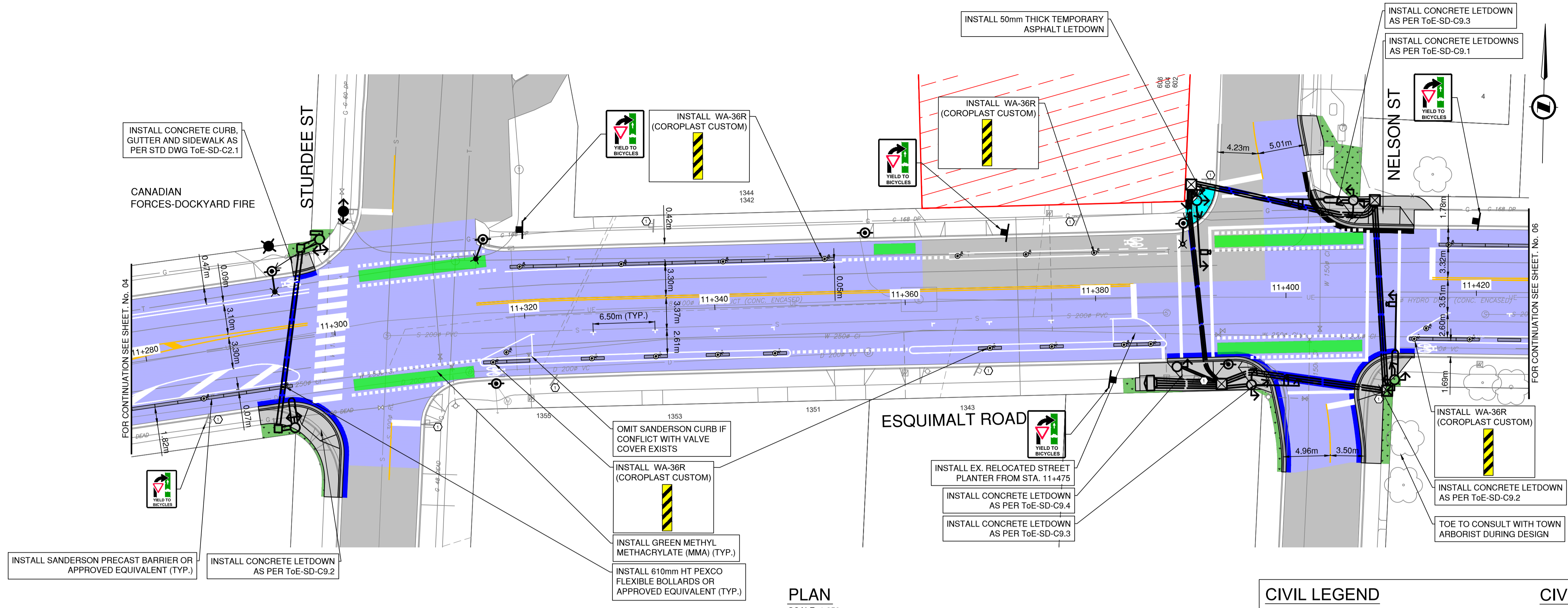
**ROAD WORKS**

**ROADWORKS**  
STA 11+130 TO STA 11+280



SCALE	1:250	CREATION DATE	2025/09/19	DWG. NO.
DRAWN BY	EJS	DESIGN BY	EJS	04 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0
PLOT DATE	May 25, 2026			

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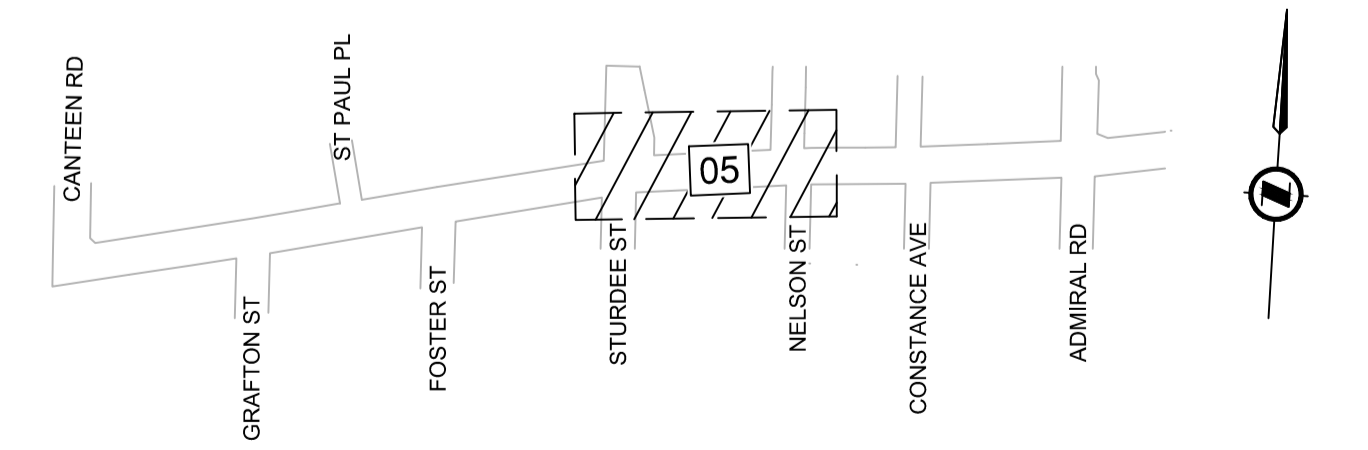


**PLAN**  
SCALE: 1:250

**DETAILED CONSTRUCTION NOTES:**

- ⊖ REMOVE OR RELOCATE EXISTING SIGN.
- ⊕ ADJUST CASTING TO FINISHED GRADE.

CIVIL LEGEND		CIVIL NOTES	
	CONCRETE INSTALLATION REFER TO DRAWING FOR DETAILS	1.	610mm HT FLEXIBLE BOLLARD: 1.1. MANUFACTURER: PEXCO LLC 1.2. MODEL: CITY POST - SURFACE MOUNT 1.3. COLOUR: WHITE 1.4. REFLECTIVE WHITE BANDS 1.5. CONTRACTOR SUPPLIED
	MILL AND INLAY - REMOVE 50mm AND PLACE 50mm - LIMITS TO BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION	2.	BOLLARD SPACING NOTES: 2.1. FLEXIBLE BOLLARD SPACING TO BE 12.0M C/C (TYPICAL) UNLESS OTHERWISE NOTED. 2.2. BOLLARD SPACING MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITH APPROVAL OF THE CONTRACT ADMINISTRATOR. SPACING SHALL NOT EXCEED 12.0M C/C.
	FUTURE DEVELOPMENT SITE. FUTURE AAA INFRASTRUCTURE TO BE INSTALLED AS A PART OF DEVELOPMENT FRONTAGE.	3.	R7301 STAINLESS STEEL BOLLARD 3.1. MANUFACTURER: RELIANCE FOUNDRY 3.2. TOWNSHIP SUPPLIED
	EXISTING ROAD HATCH SHOWN FOR PAVEMENT MARKING CLARITY. NOT INDICATIVE OF PAVING SCOPE.	4.	REFER TO CIVIL DETAIL SHEET 13 FOR CURB RETURN PROFILES
	FULL DEPTH RESTORATION - 100mm OF ASPHALT (TWO LIFTS) ON TOP OF 100mm OF GRANULAR BASE AND 250mm OF GRANULAR SUB BASE	5.	REFER TO LEGEND SHEET 02 FOR PAVEMENT MARKING AND SYMBOL DIMENSIONS
	50mm THICK ASPHALT DRIVEWAY CONNECTION/ BIKE LANE	6.	CONTRACTOR TO CONFIRM CONDITION OF EXISTING CATCH BASIN LEADS AND SANITARY SERVICES WITH PUSH CAMERA AND/OR CCTV INSPECTION PRIOR TO CONNECTION
	150mm THICK CONCRETE DRIVEWAY CROSSING	7.	PAVEMENT MARKINGS TO BE ERADICATED FROM 7.1. STA 11+010 - STA 11+080   STA. 11+320 - STA. 11+390   STA. 11+410 - STA. 11+460   STA. 12+050 - STA. 12+090   STA. 12+110 - STA. 12+170   STA. 12+210 - STA. 12+260   STA. 12+360 - STA. 12+420 (SHY LINE AND ELEPHANTS FEET) 7.1. LIMITS OF ERADICATION ARE TO BE CONFIRMED IN THE FIELD WITH THE CONTRACT ADMINISTRATOR A MINIMUM OF 5 DAYS PRIOR TO ERADICATION WORK.
	150mm THICK TOP SOIL AND SEED		
	FLEXIBLE BOLLARD REFER TO NOTES FOR PRODUCT INFO		
	PRECAST CONCRETE BARRIER CURB. SHY LINE TO BE AT AN OFFSET OF 200mm UNLESS STATED OTHERWISE		



**KEY PLAN**

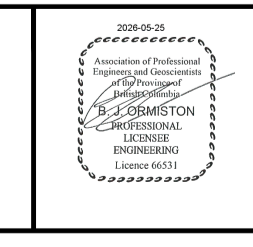
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
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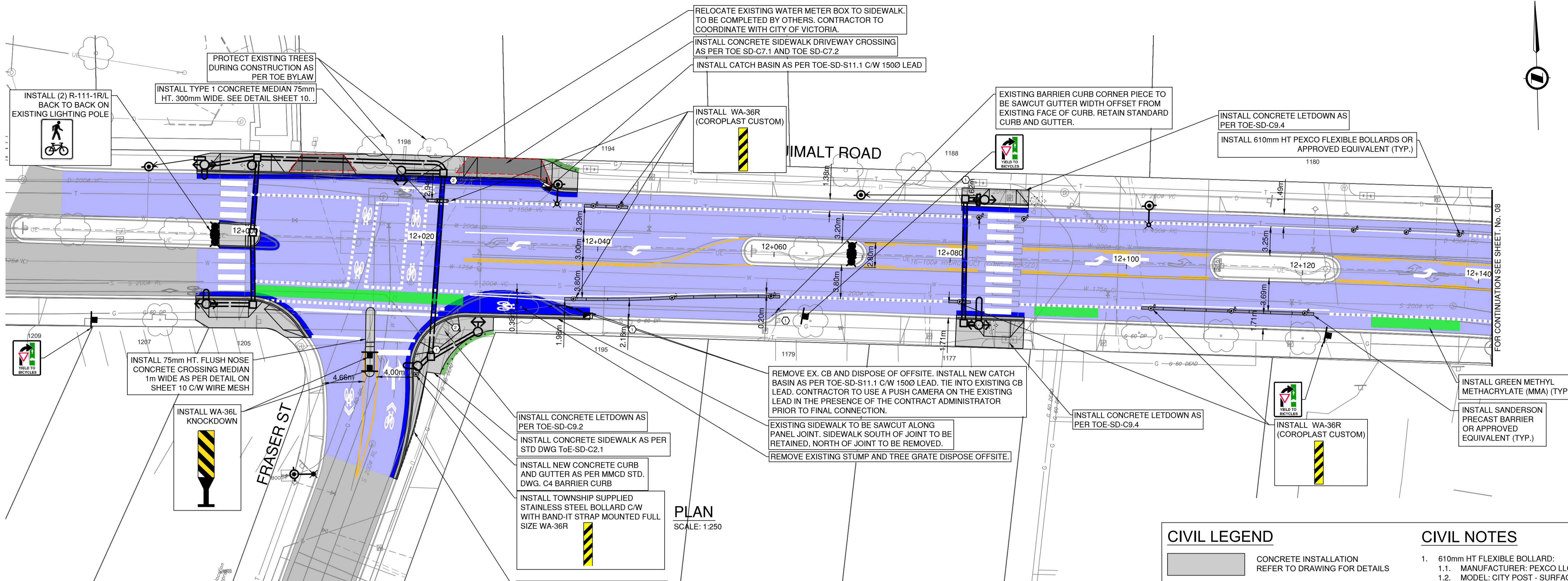
**ROAD WORKS**

**ROADWORKS**  
STA 11+280 TO STA 11+420



ISSUED FOR TENDER		DESIGN NO.		33995	
SCALE	1:250	CREATION DATE	2025/09/19	DWG. NO.	05
DRAWN BY	EJS	DESIGN BY	EJS	OF	16
CHECKED BY	ECH	APPROVED BY	BJO	REV.	0
PLOT DATE	May 25, 2026				





**PLAN**  
SCALE: 1:250

**DETAILED CONSTRUCTION NOTES:**

- ① REMOVE OR RELOCATE EXISTING SIGN.
- ② ADJUST CASTING TO FINISHED GRADE.

EXISTING CURB TO BE SAWCUT AT INTERFACE WITH EXISTING SIDEWALK. CURB SHALL BE REMOVED AND SIDEWALK SHALL BE RETAINED.

REMOVE EX. CB AND DISPOSE OF OFFSITE. INSTALL NEW CATCH BASIN AS PER TOE-SD-S11.1 C/W 1500 LEAD. TIE INTO EXISTING CB LEAD. CONTRACTOR TO USE A PUSH CAMERA ON THE EXISTING LEAD IN THE PRESENCE OF THE CONTRACT ADMINISTRATOR PRIOR TO FINAL CONNECTION.

EXISTING SIDEWALK TO BE SAWCUT ALONG PANEL JOINT. SIDEWALK SOUTH OF JOINT TO BE RETAINED, NORTH OF JOINT TO BE REMOVED.

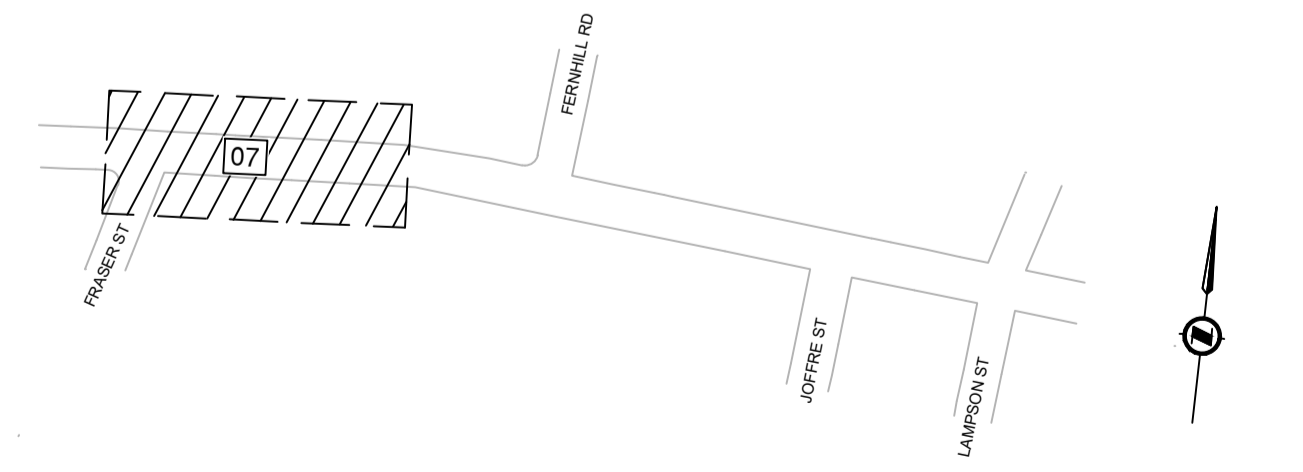
REMOVE EXISTING STUMP AND TREE GRATE DISPOSE OFFSITE.

**CIVIL LEGEND**

- CONCRETE INSTALLATION  
REFER TO DRAWING FOR DETAILS
- MILL AND INLAY - REMOVE 50mm AND PLACE 50mm - LIMITS TO BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION
- FUTURE DEVELOPMENT SITE. FUTURE AAA INFRASTRUCTURE TO BE INSTALLED AS A PART OF DEVELOPMENT FRONTAGE.
- EXISTING ROAD HATCH SHOWN FOR PAVEMENT MARKING CLARITY. NOT INDICATIVE OF PAVING SCOPE.
- FULL DEPTH RESTORATION - 100mm OF ASPHALT (TWO LIFTS) ON TOP OF 100mm OF GRANULAR BASE AND 250mm OF GRANULAR SUB BASE
- 50mm THICK ASPHALT DRIVEWAY CONNECTION/ BIKE LANE
- 150mm THICK CONCRETE DRIVEWAY CROSSING
- 150mm THICK TOP SOIL AND SEED
- FLEXIBLE BOLLARD  
REFER TO NOTES FOR PRODUCT INFO
- PRECAST CONCRETE BARRIER CURB. SHY LINE TO BE AT AN OFFSET OF 200mm UNLESS STATED OTHERWISE

**CIVIL NOTES**

1. 610mm HT FLEXIBLE BOLLARD:
  - 1.1. MANUFACTURER: PEXCO LLC
  - 1.2. MODEL: CITY POST - SURFACE MOUNT
  - 1.3. COLOUR: WHITE
  - 1.4. REFLECTIVE WHITE BANDS
  - 1.5. CONTRACTOR SUPPLIED
2. BOLLARD SPACING NOTES:
  - 2.1. FLEXIBLE BOLLARD SPACING TO BE 12.0M C/C (TYPICAL) UNLESS OTHERWISE NOTED.
  - 2.2. BOLLARD SPACING MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITH APPROVAL OF THE CONTRACT ADMINISTRATOR. SPACING SHALL NOT EXCEED 12.0M C/C.
3. R7301 STAINLESS STEEL BOLLARD
  - 3.1. MANUFACTURER: RELIANCE FOUNDRY
  - 3.2. TOWNSHIP SUPPLIED
4. REFER TO CIVIL DETAIL SHEET 13 FOR CURB RETURN PROFILES
5. REFER TO LEGEND SHEET 02 FOR PAVEMENT MARKING AND SYMBOL DIMENSIONS
6. CONTRACTOR TO CONFIRM CONDITION OF EXISTING CATCH BASIN LEADS AND SANITARY SERVICES WITH PUSH CAMERA AND/OR CCTV INSPECTION PRIOR TO CONNECTION
7. PAVEMENT MARKINGS TO BE ERADICATED FROM
  - 7.1. STA 11+010 - STA 11+080 | STA. 11+320 - STA. 11+390 | STA. 11+410 - STA. 11+460 | STA. 12+050 - STA. 12+090 | STA. 12+110 - STA. 12+170 | STA. 12+210 - STA. 12+260 | STA. 12+360 - STA. 12+420 (SHY LINE AND ELEPHANTS FEET)
  - 7.1. LIMITS OF ERADICATION ARE TO BE CONFIRMED IN THE FIELD WITH THE CONTRACT ADMINISTRATOR A MINIMUM OF 5 DAYS PRIOR TO ERADICATION WORK.



**KEY PLAN**



ISSUED FOR TENDER

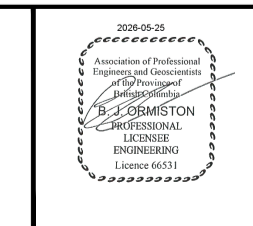
DESIGN NO. **33995**

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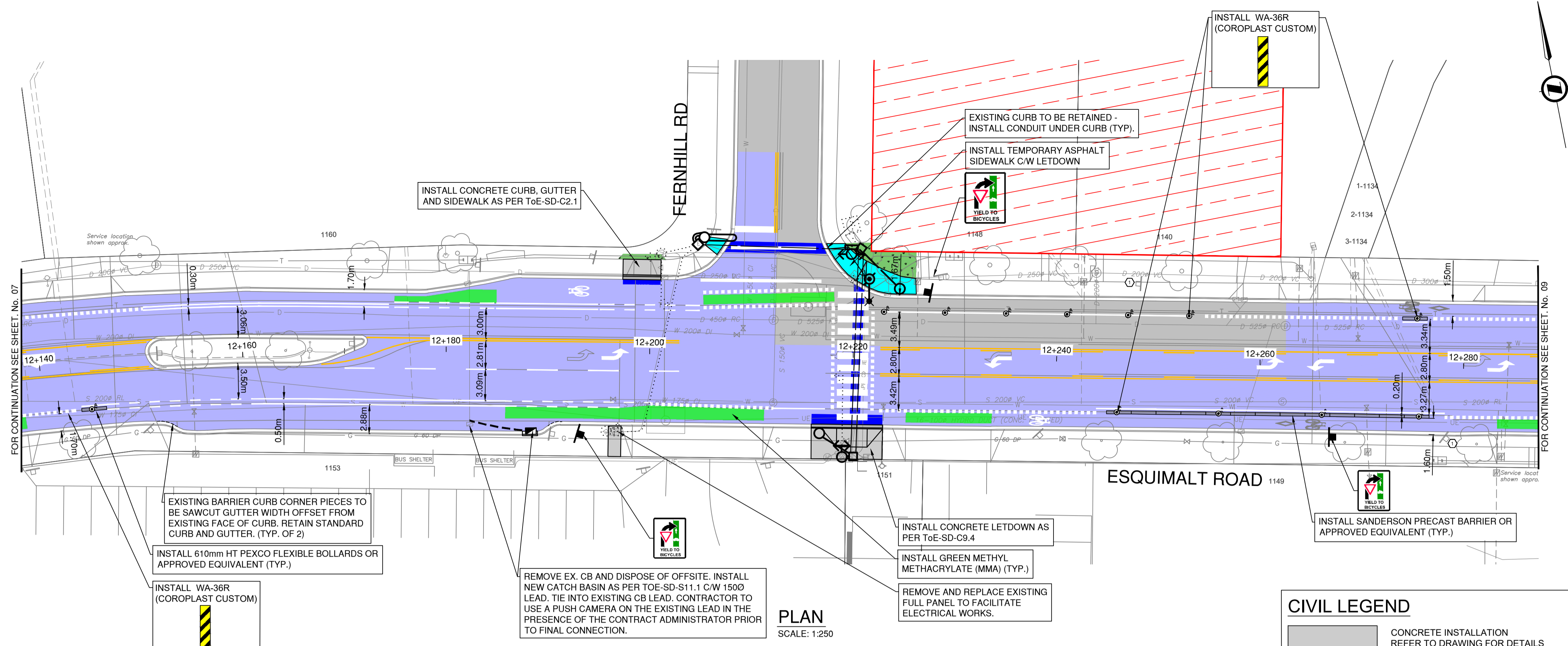
**ROAD WORKS**

**ROADWORKS**  
STA 12+000 TO STA 12+140



SCALE	1:250	CREATION DATE	2025/09/19	DWG. NO.
DRAWN BY	EJS	DESIGN BY	EJS	07 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0
PLOT DATE	May 25, 2026			

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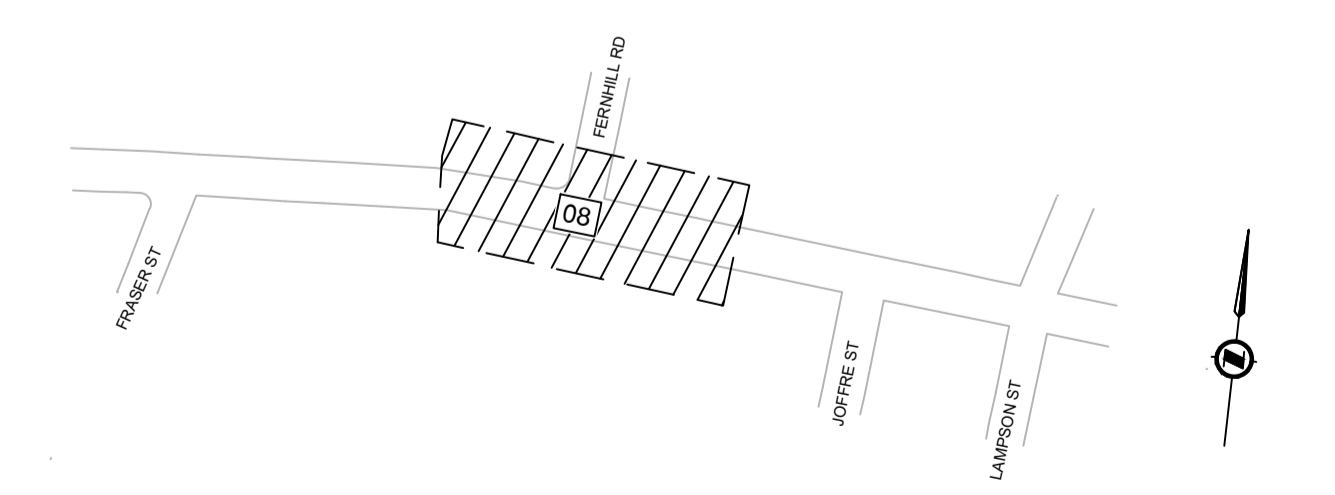


**PLAN**  
SCALE: 1:250

**DETAILED CONSTRUCTION NOTES:**

- ① REMOVE OR RELOCATE EXISTING SIGN.
- ② ADJUST CASTING TO FINISHED GRADE.

CIVIL LEGEND		CIVIL NOTES	
	CONCRETE INSTALLATION REFER TO DRAWING FOR DETAILS	1.	610mm HT FLEXIBLE BOLLARD: 1.1. MANUFACTURER: PEXCO LLC 1.2. MODEL: CITY POST - SURFACE MOUNT 1.3. COLOUR: WHITE 1.4. REFLECTIVE WHITE BANDS 1.5. CONTRACTOR SUPPLIED
	MILL AND INLAY - REMOVE 50mm AND PLACE 50mm - LIMITS TO BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION	2.	BOLLARD SPACING NOTES: 2.1. FLEXIBLE BOLLARD SPACING TO BE 12.0M C/C (TYPICAL) UNLESS OTHERWISE NOTED. 2.2. BOLLARD SPACING MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITH APPROVAL OF THE CONTRACT ADMINISTRATOR. SPACING SHALL NOT EXCEED 12.0M C/C.
	FUTURE DEVELOPMENT SITE. FUTURE AAA INFRASTRUCTURE TO BE INSTALLED AS A PART OF DEVELOPMENT FRONTAGE.	3.	R7301 STAINLESS STEEL BOLLARD 3.1. MANUFACTURER: RELIANCE FOUNDRY 3.2. TOWNSHIP SUPPLIED
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**KEY PLAN**



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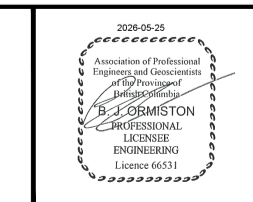
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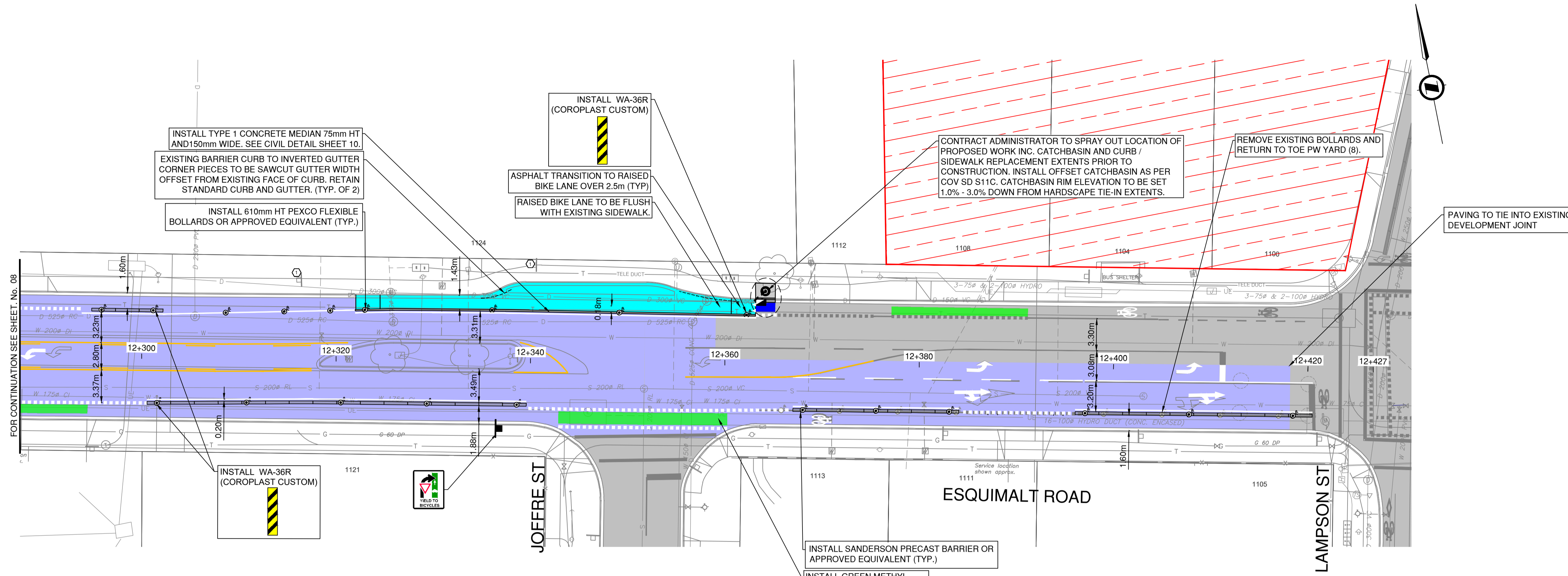
**ROAD WORKS**

**ROADWORKS**  
STA 12+140 TO STA 12+280



SCALE	1:250	CREATION DATE	2025/09/19	DWG. NO.
DRAWN BY	EJS	DESIGN BY	EJS	08 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0
PLOT DATE	May 25, 2026			

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PLAN  
SCALE: 1:250

**CIVIL LEGEND**

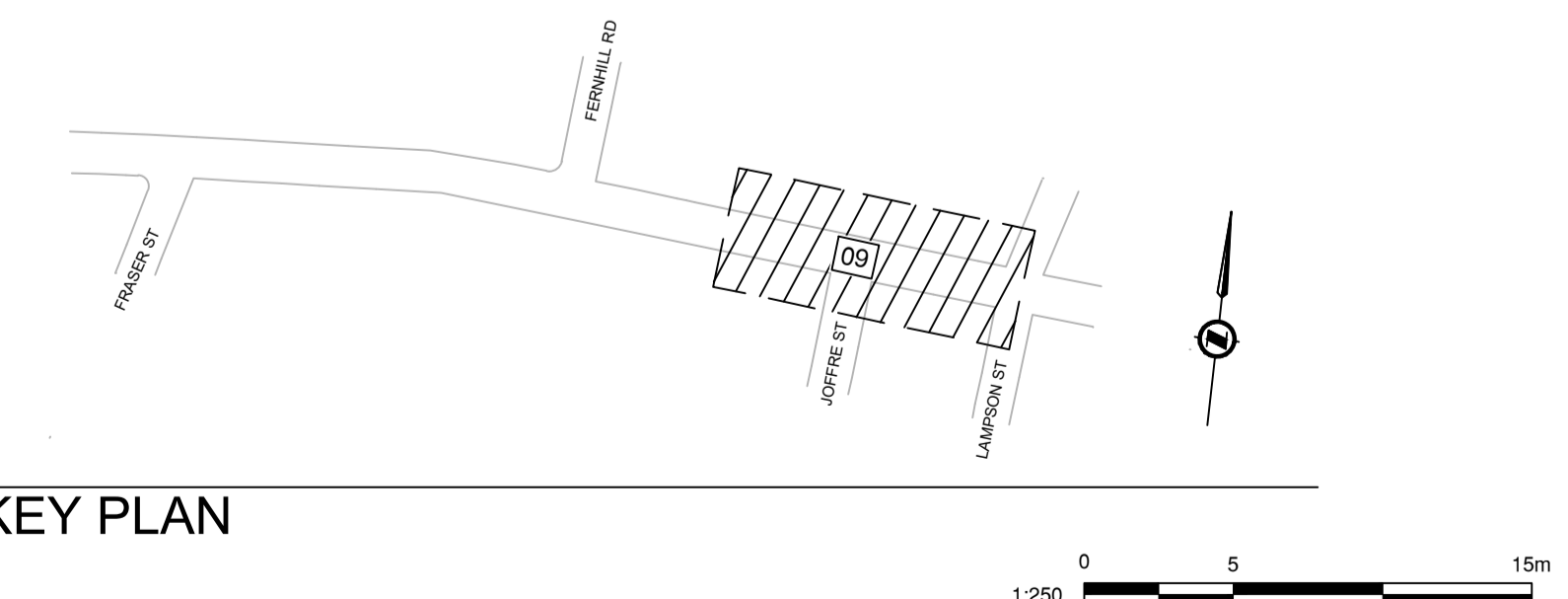
- CONCRETE INSTALLATION  
REFER TO DRAWING FOR DETAILS
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- FUTURE DEVELOPMENT SITE. FUTURE AAA INFRASTRUCTURE TO BE INSTALLED AS A PART OF DEVELOPMENT FRONTAGE.
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- 150mm THICK TOP SOIL AND SEED
- FLEXIBLE BOLLARD  
REFER TO NOTES FOR PRODUCT INFO
- PRECAST CONCRETE BARRIER CURB. SHY LINE TO BE AT AN OFFSET OF 200mm UNLESS STATED OTHERWISE

**CIVIL NOTES**

1. 610mm HT FLEXIBLE BOLLARD:
  - 1.1. MANUFACTURER: PEXCO LLC
  - 1.2. MODEL: CITY POST - SURFACE MOUNT
  - 1.3. COLOUR: WHITE
  - 1.4. REFLECTIVE WHITE BANDS
  - 1.5. CONTRACTOR SUPPLIED
2. BOLLARD SPACING NOTES:
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**DETAILED CONSTRUCTION NOTES:**

- ⊖ REMOVE OR RELOCATE EXISTING SIGN.
- ⊕ ADJUST CASTING TO FINISHED GRADE.



KEY PLAN

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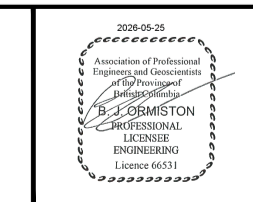
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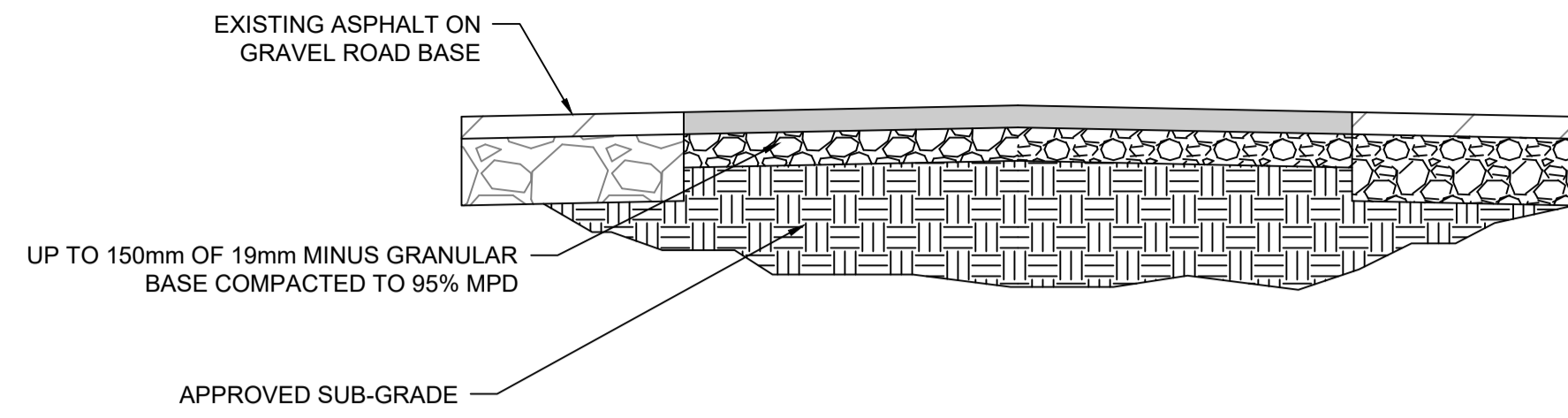
**ROAD WORKS**

**ROADWORKS**  
STA 12+280 TO STA 12+420

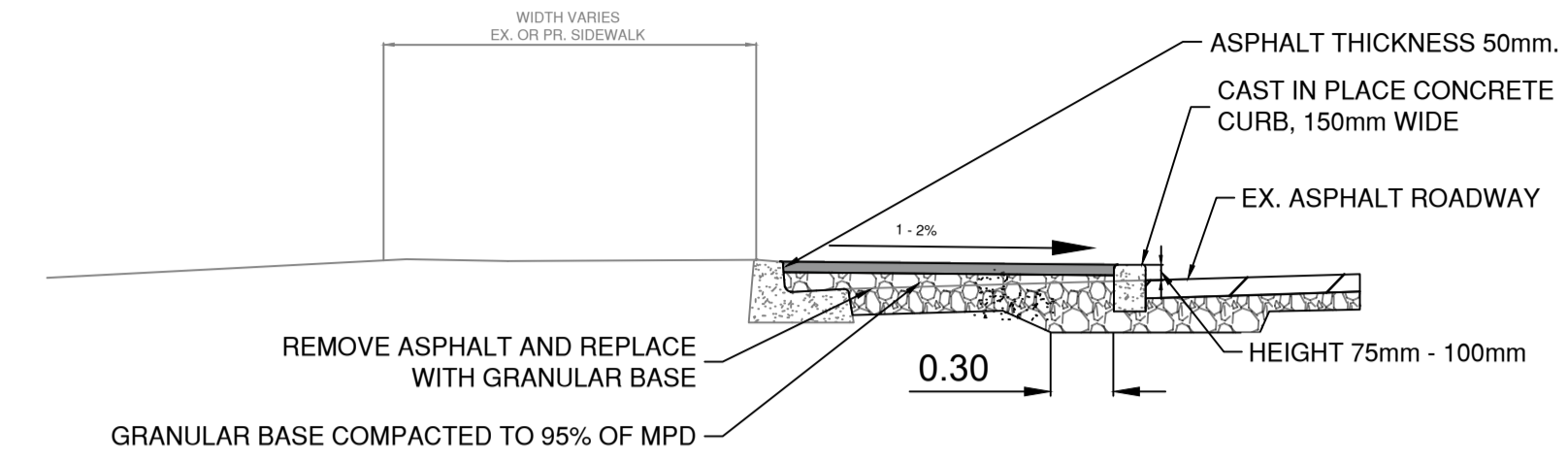


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DRAWN BY	EJS	DESIGN BY	EJS	09 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0
PLOT DATE	May 25, 2026			

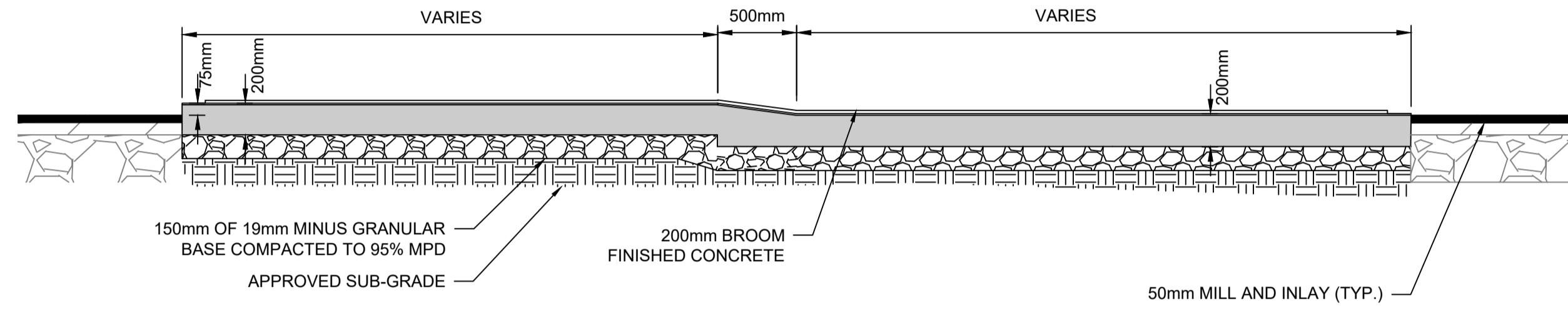
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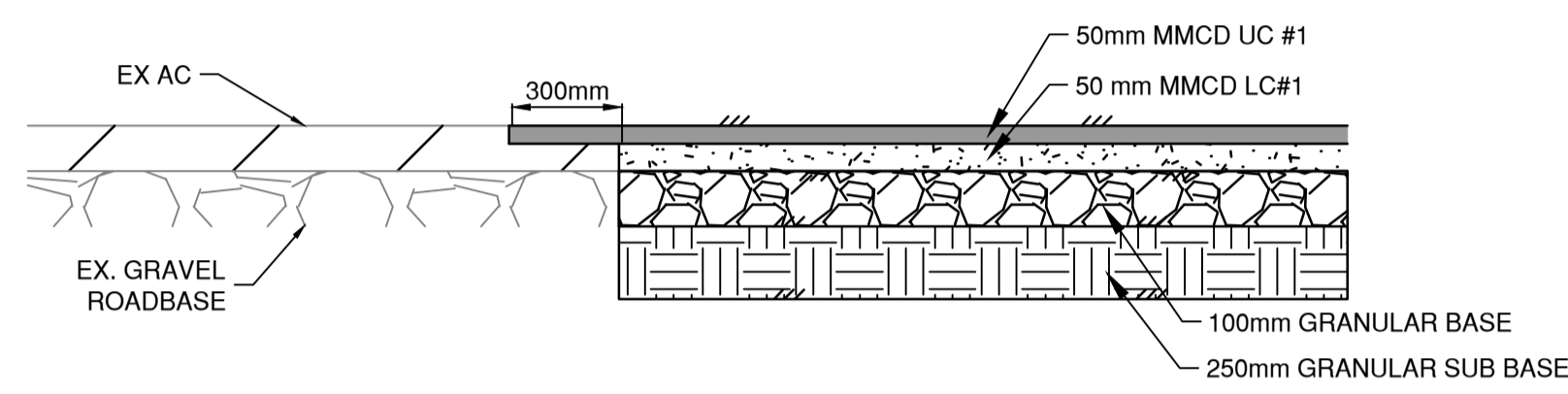
**TYPICAL MEDIAN CROSSING DETAIL (FLUSH NOSE)**  
Section A-A Scale 1:30



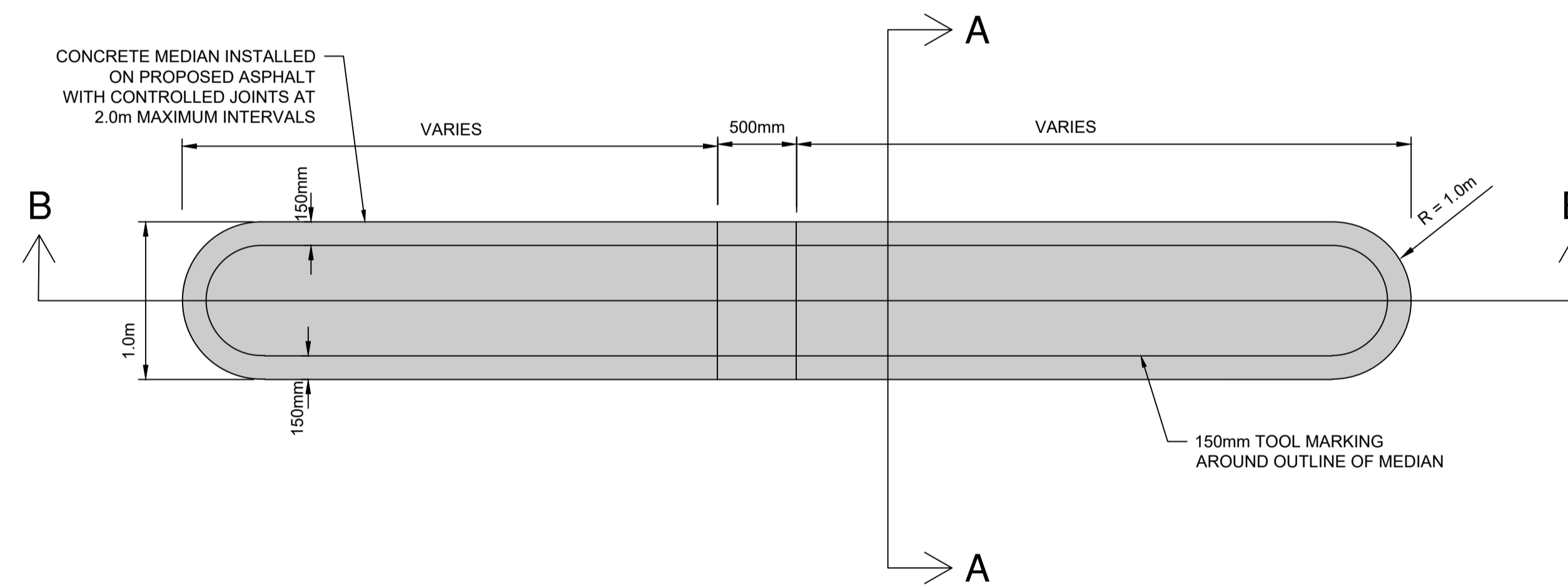
**RAISED BIKE LANE TYPICAL SECTION**  
NOT TO SCALE



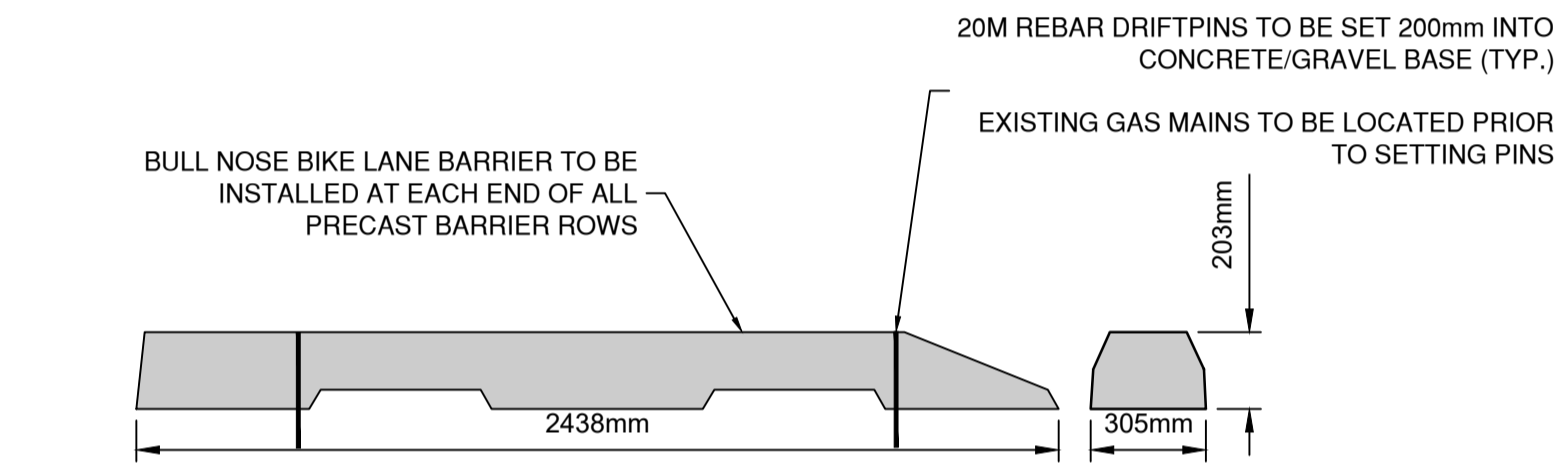
**TYPICAL MEDIAN CROSSING DETAIL (FLUSH NOSE)**  
Section B-B Scale 1:30



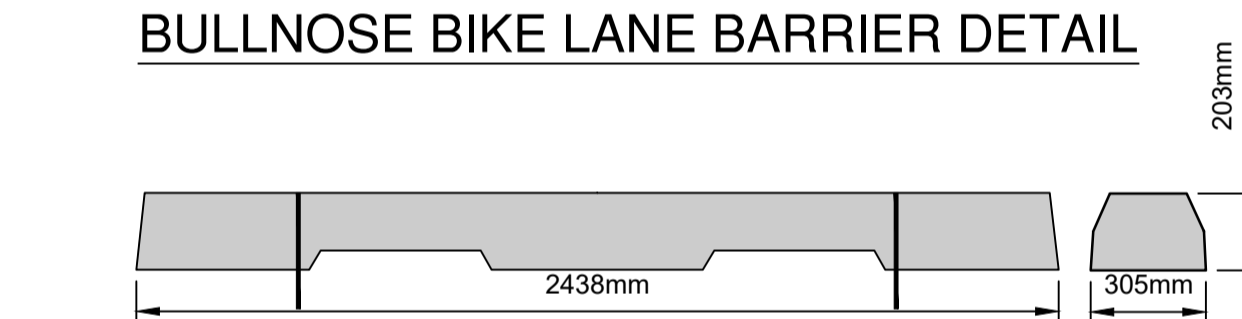
**GRAVEL ROADBASE PAVEMENT RESTORATION DETAIL**  
FULL DEPTH RESTORATION ON GRAVEL BASE ROADS.



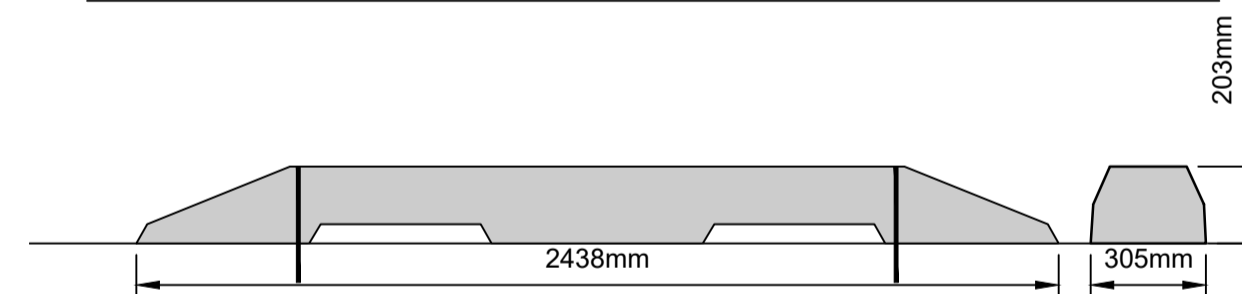
**TYPICAL MEDIAN CROSSING DETAIL ( FLUSH NOSE)**  
Scale 1:30



**BULLNOSE BIKE LANE BARRIER DETAIL**

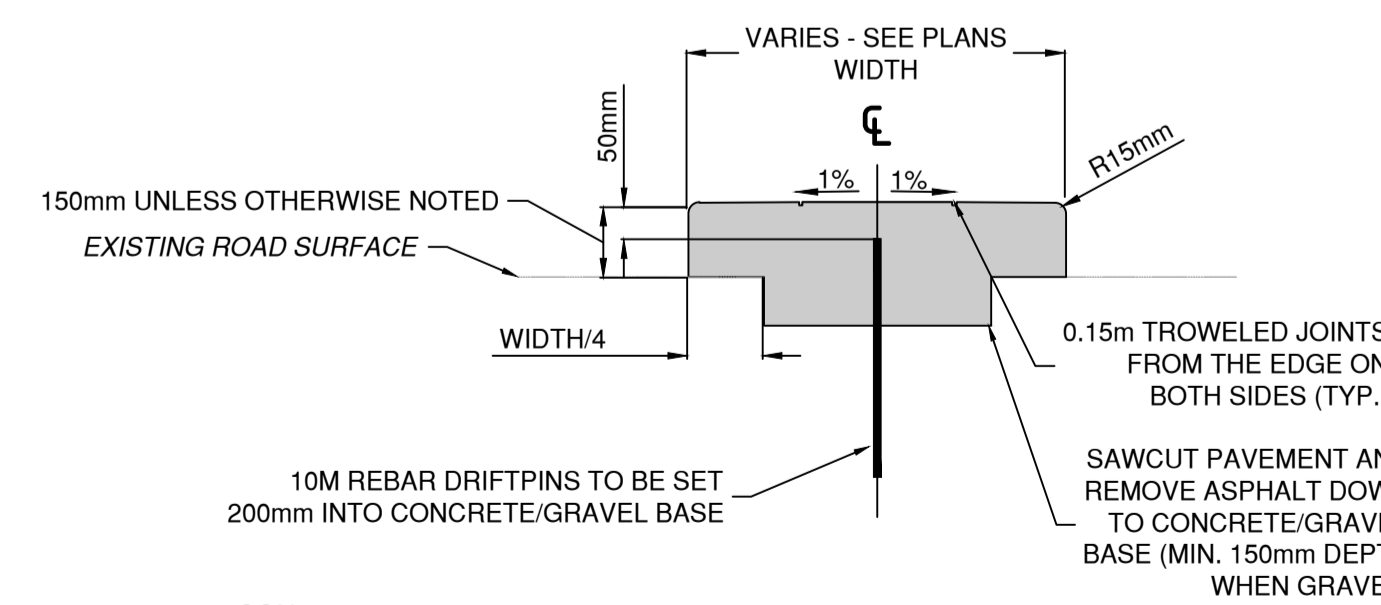


**NON-BULLNOSE BIKE LANE BARRIER DETAIL**

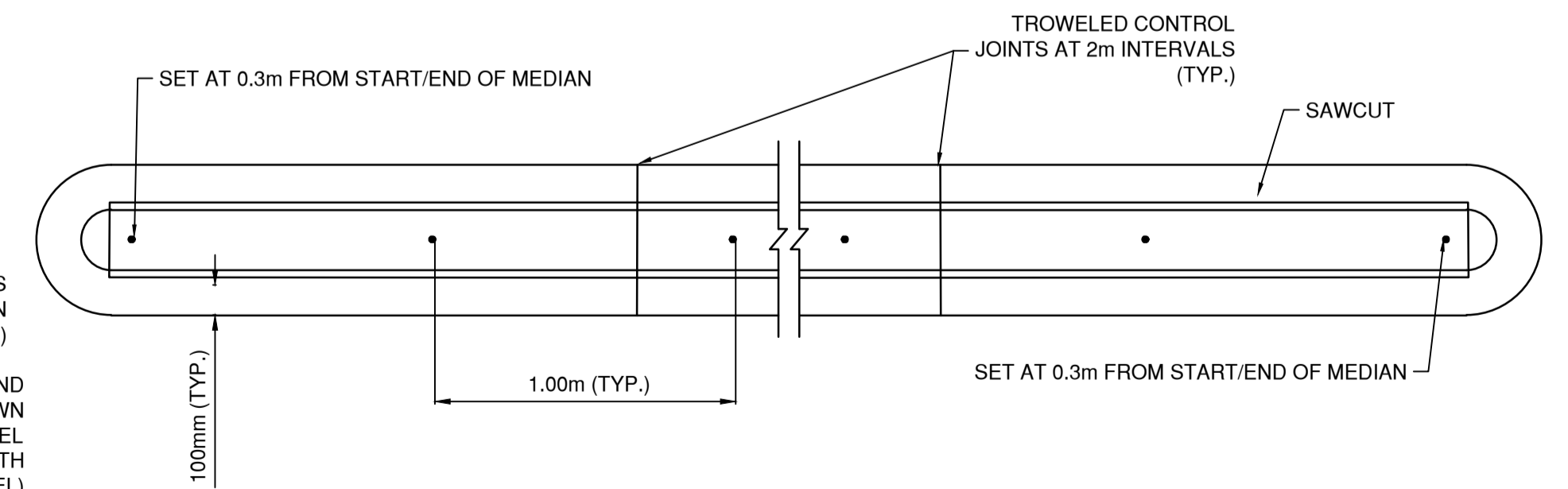


**DUAL BULLNOSE BIKE LANE BARRIER DETAIL**

**HAZARD MARKER AND BOLLARD MOUNTING NOTES**  
 - SIMPSON STRONG-TIE TITEN HD HEX WASHER HEAD, ZINC PLATED. 3/8" DIA. X 1 3/4" BOLTS. PRODUCT NUMBER THD37134H  
 - (ATTACH BY BOLTING THROUGH TWO DIAGONALLY OPPOSITE HOLES; LEAVE THE OTHER TWO HOLES UNBOLTED TO AVOID STRIKING REBAR IN THE PRECAST MEDIAN.)



**TYPE 1 MEDIAN (WIDTH < 0.5m)**  
Scale 1:5



**DRIFTPIN LAYOUT DETAIL**  
NTS

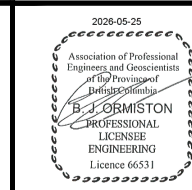
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REV NO	REVISIONS	DATE	DRAWN	APPR'D
0	ISSUED FOR TENDER	2026/05/22	EJS	BJO
1				
2				
3				
4				



**ROAD WORKS**

**CIVIL DETAILS**  
TYPICAL DETAILS

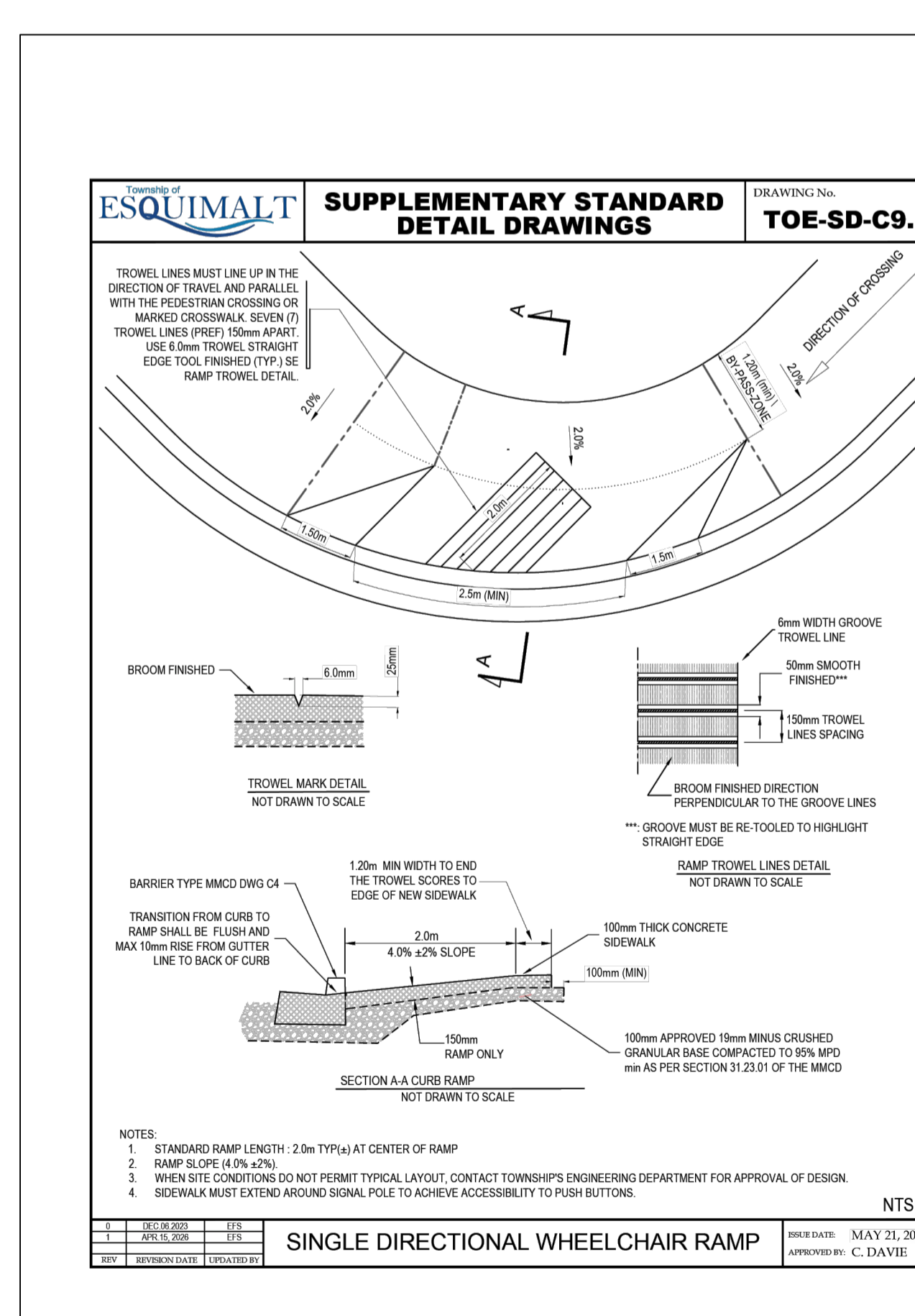
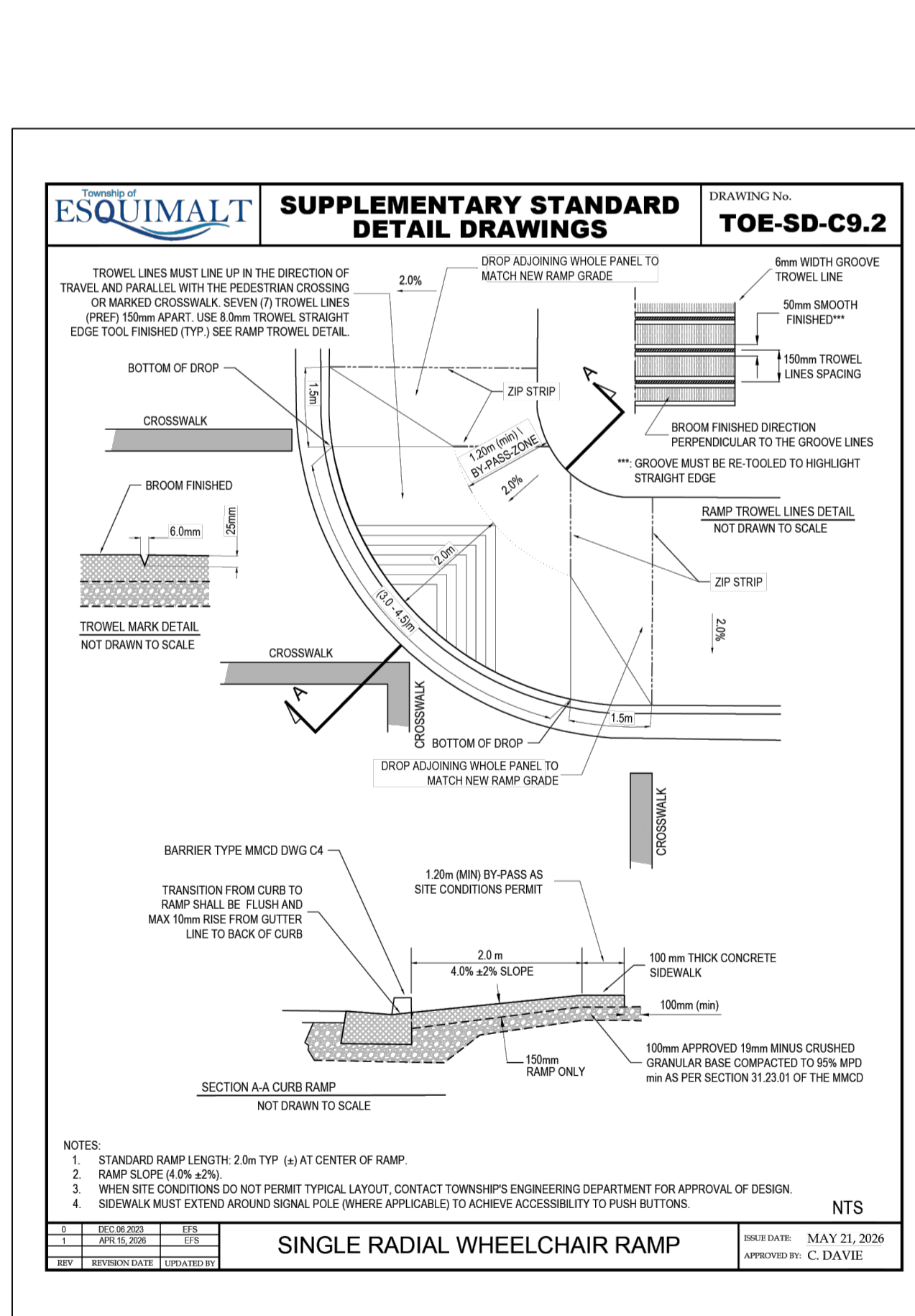
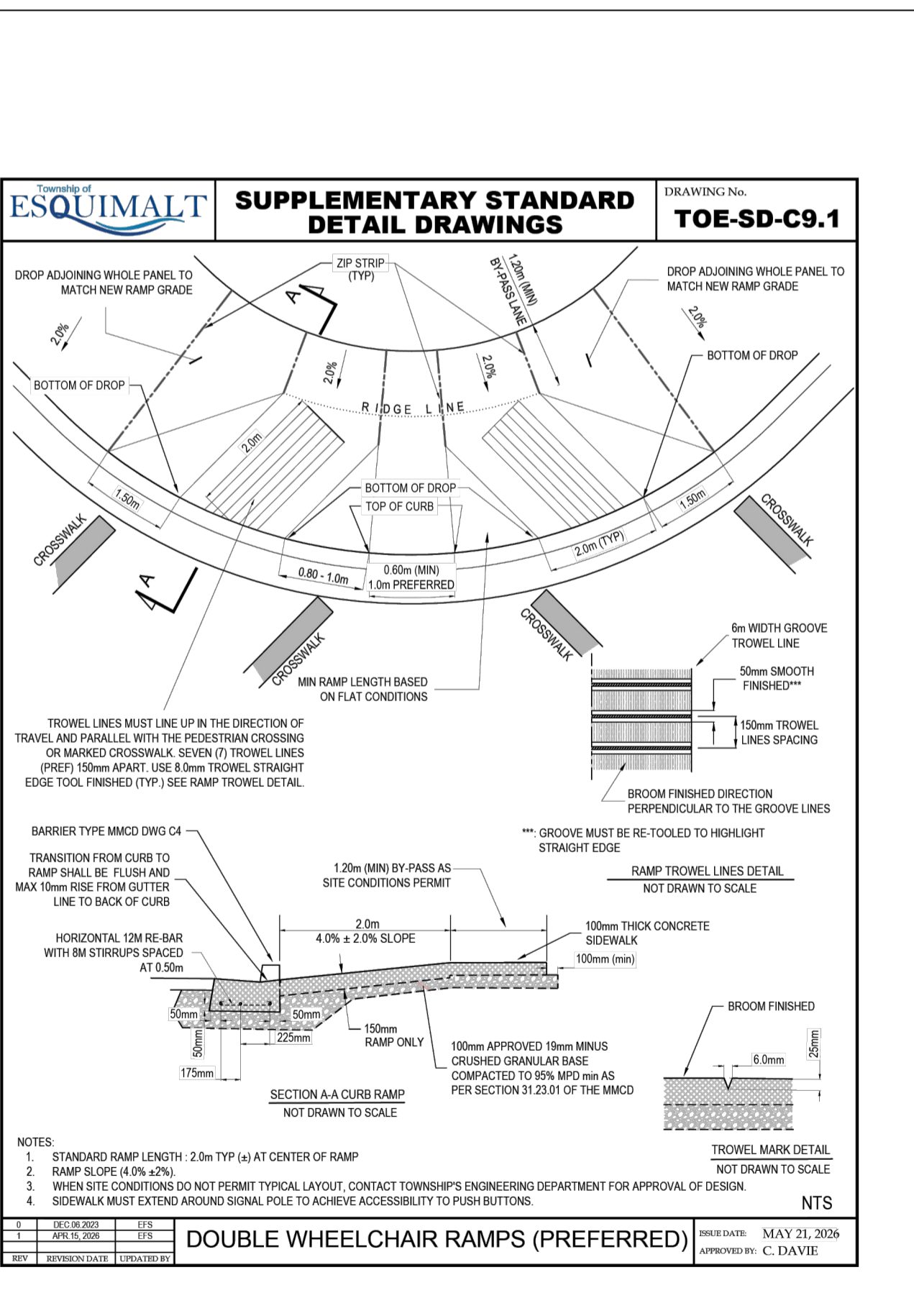
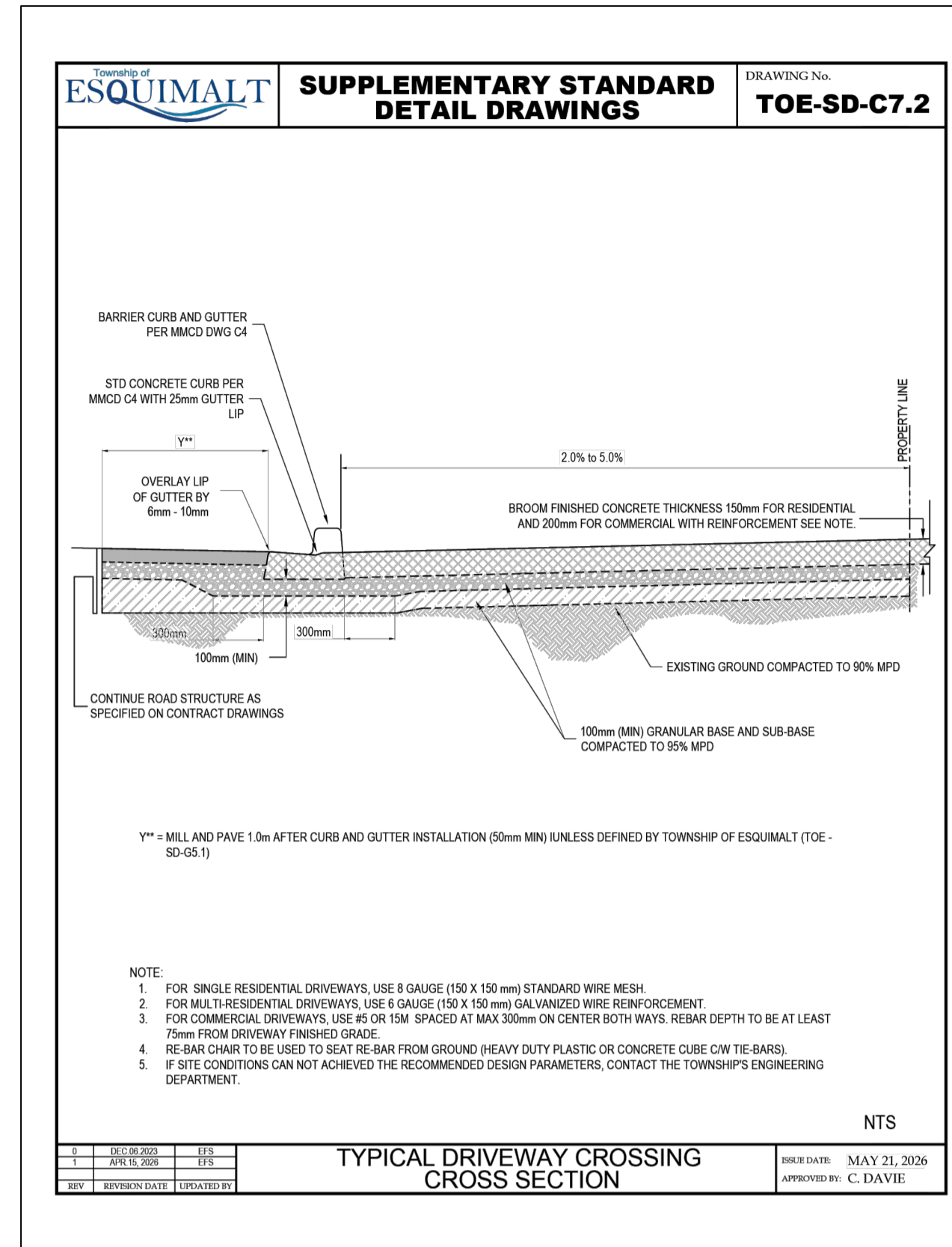
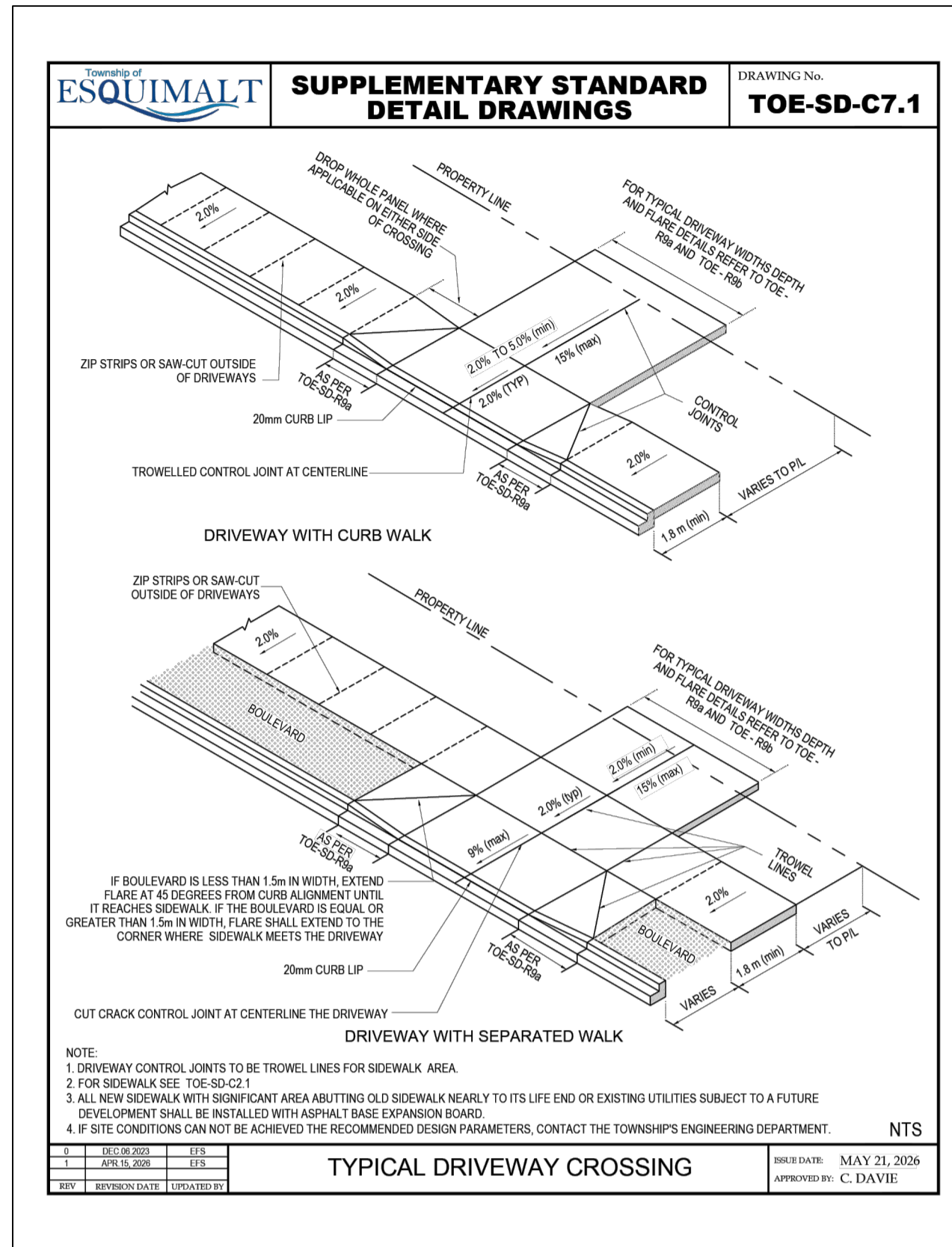
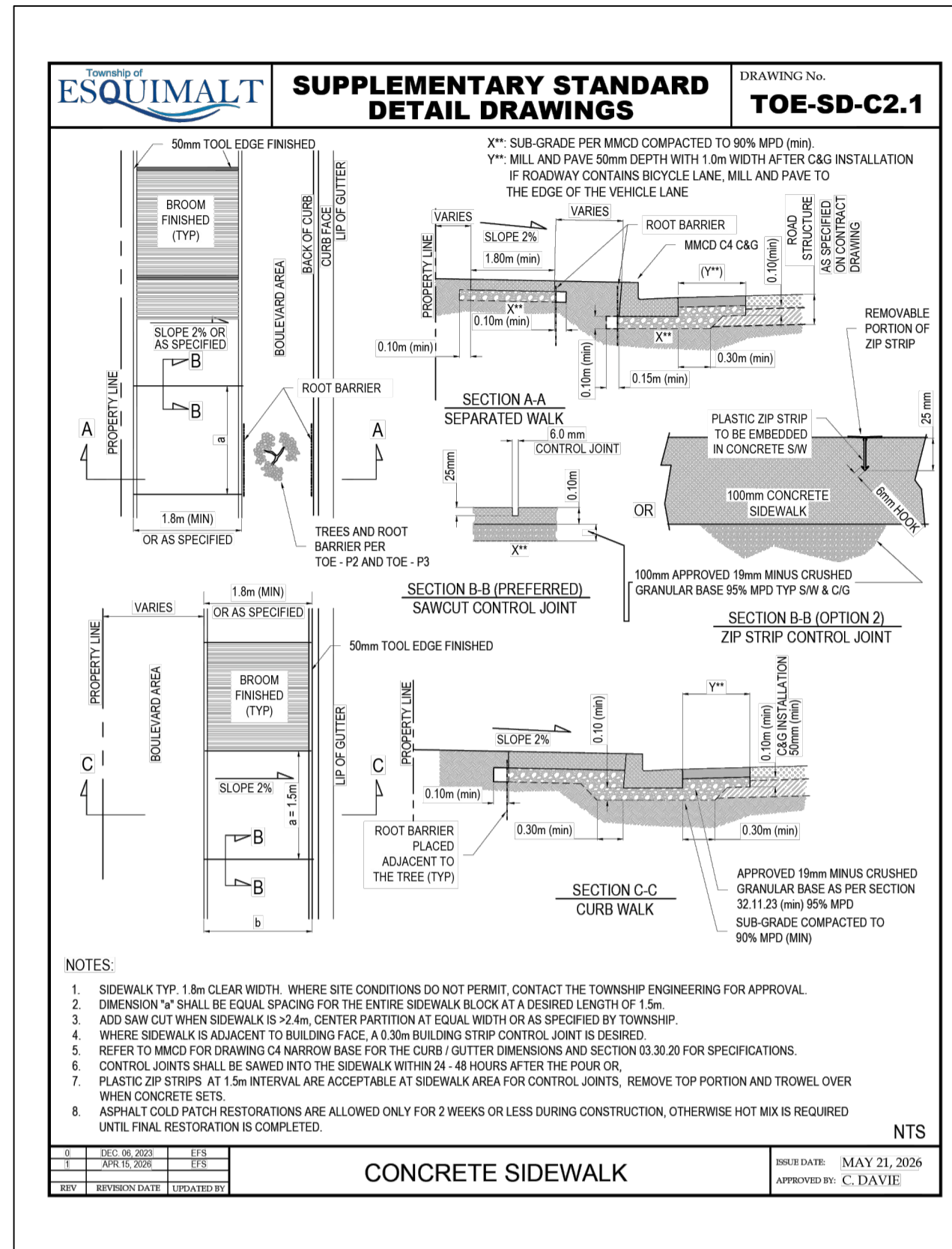


1051 Vancouver St, Victoria, BC V8T 3K3  
T: (250) 981-3330 F: (250) 981-3755

ISSUED FOR TENDER DESIGN NO.

**33995**

SCALE	AS NOTED	CREATION DATE	2025/10/15	DWG. NO.
DRAWN BY	EJS	DESIGN BY	EJS	10 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0

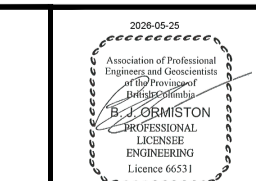


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REV NO	REVISIONS	DATE	DRAWN	APPR'D
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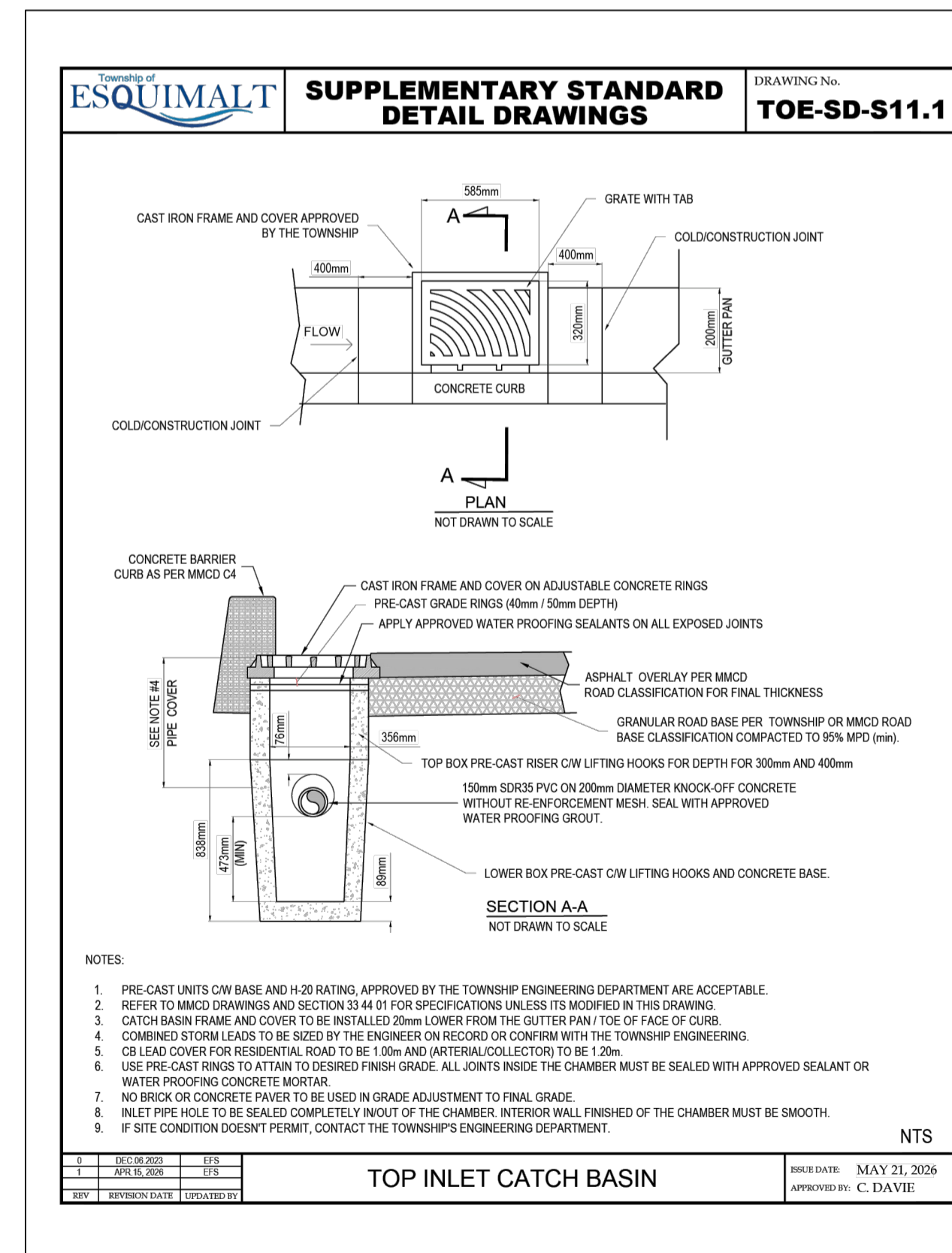
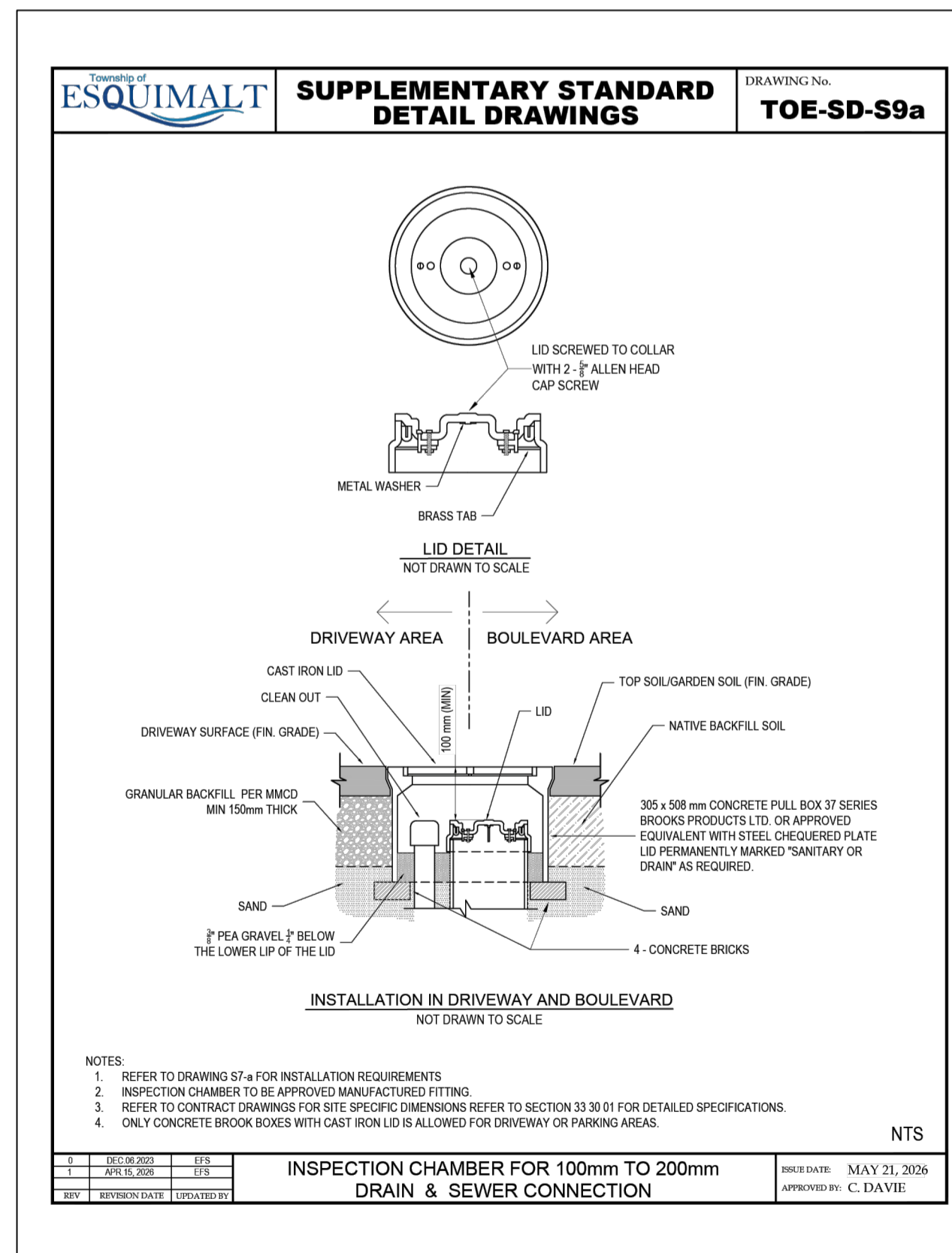
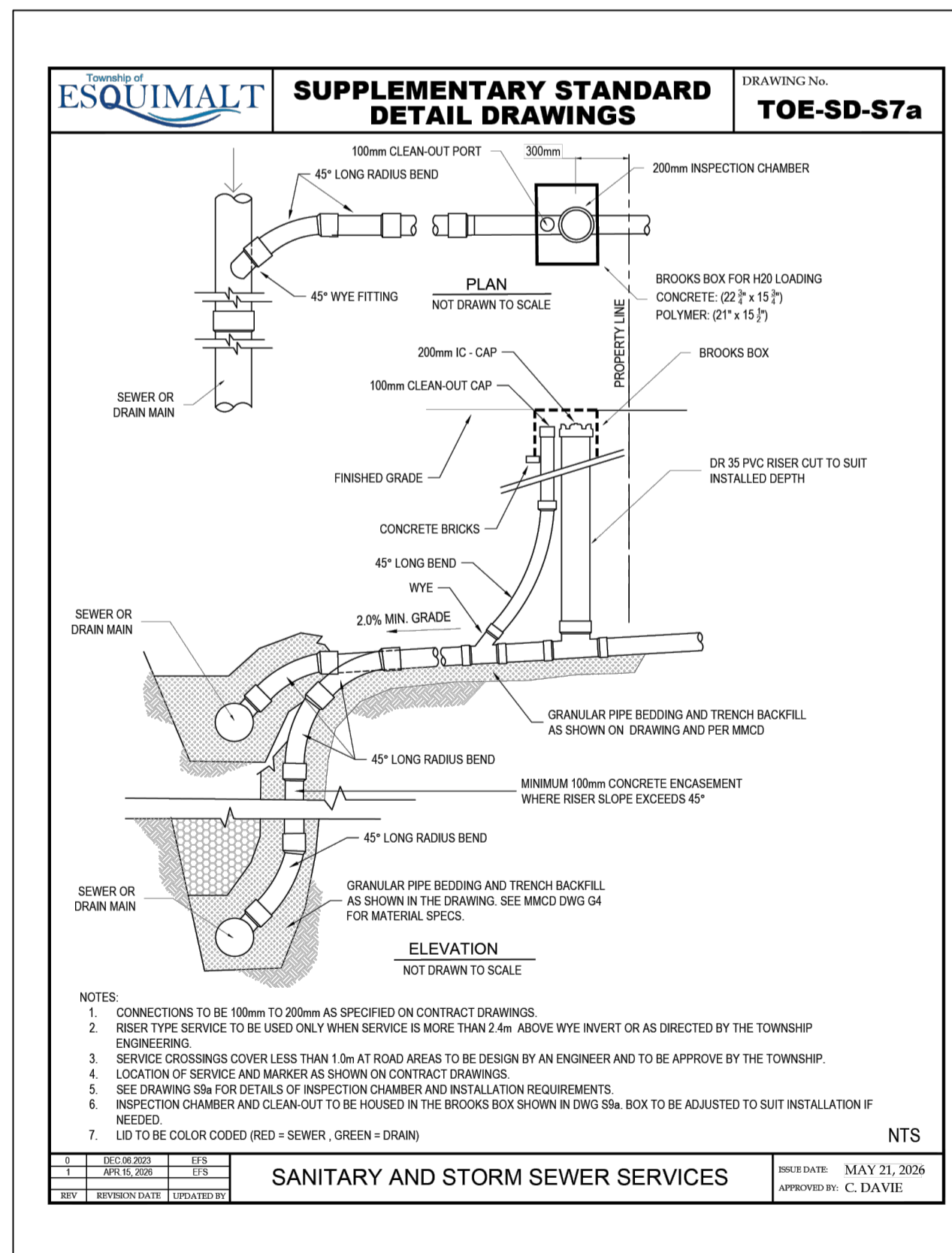
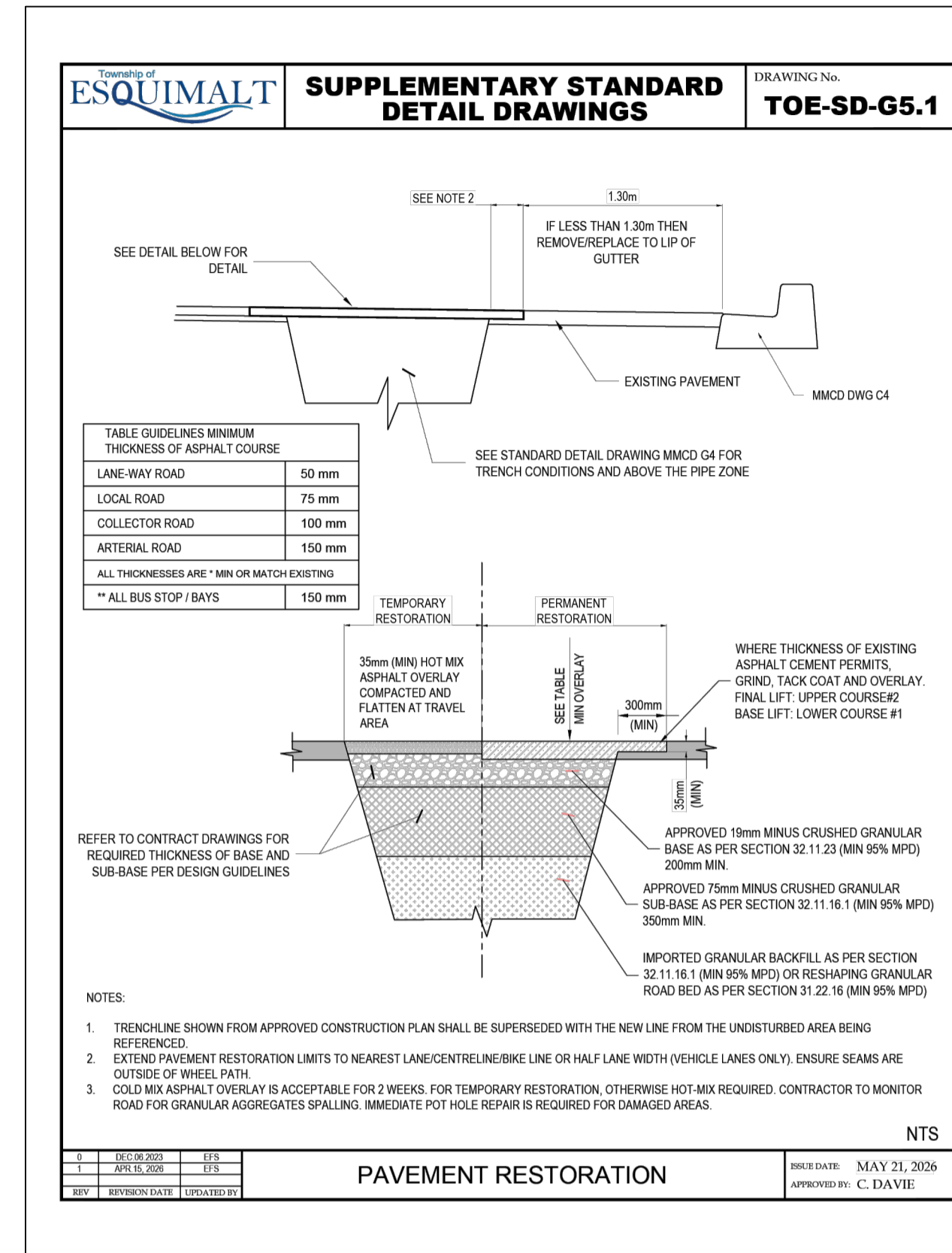
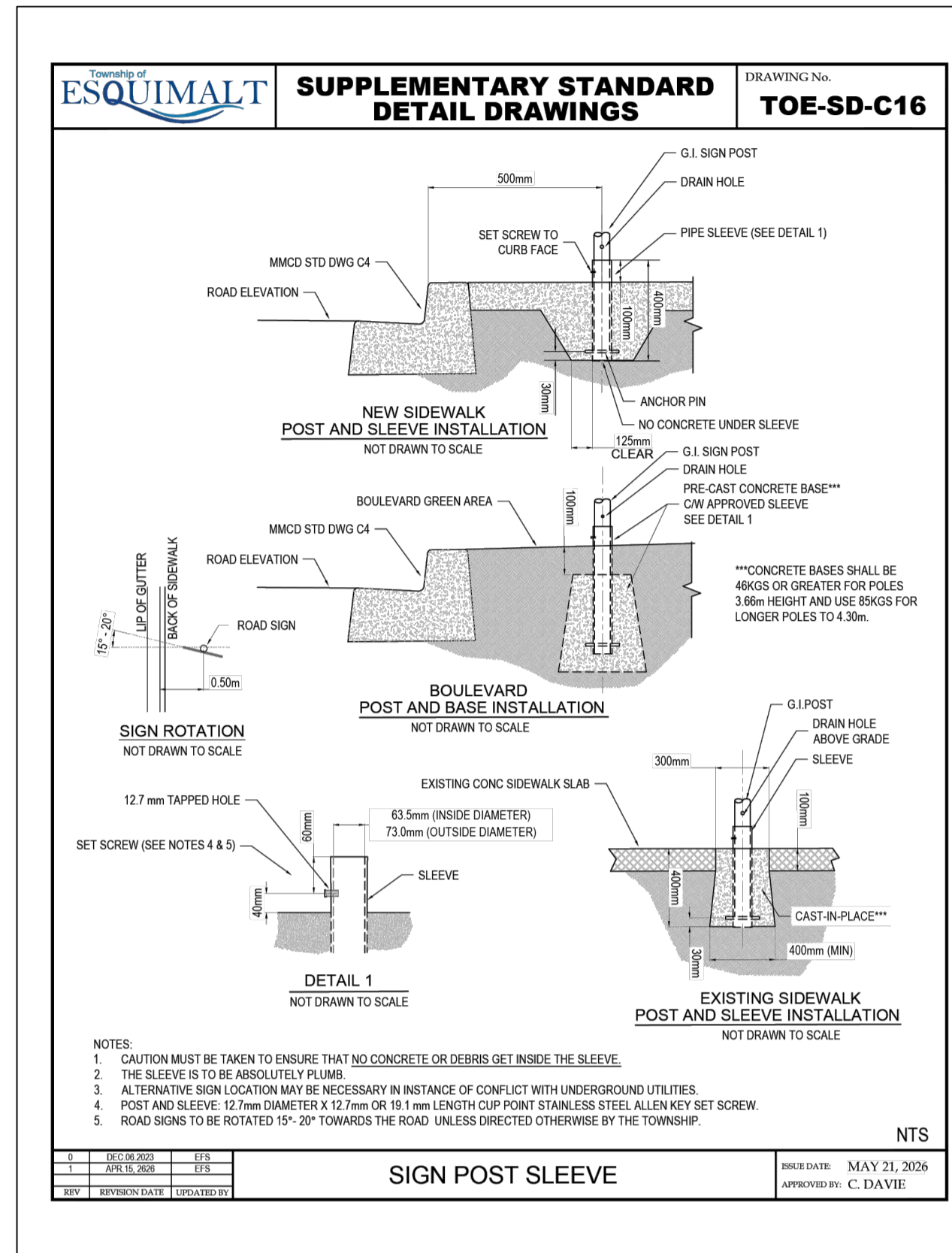
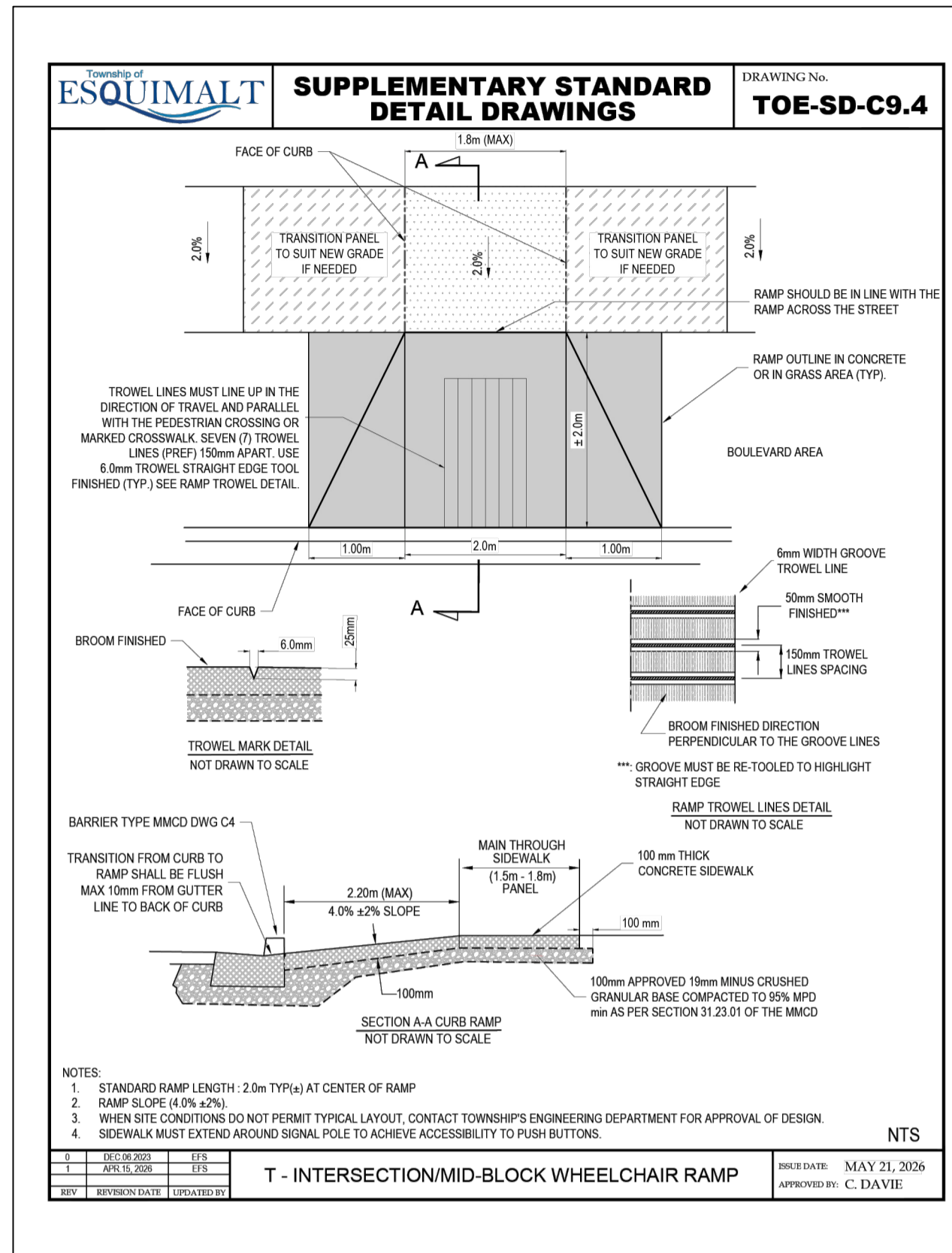
**CIVIL DETAILS**  
**MMCD SUPPLEMENTALS**



ISSUED FOR TENDER		DESIGN NO.	
SCALE	N.T.S.	CREATION DATE	JAN/2025
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CHECKED BY	ECH	APPROVED BY	BJO
			DWG. NO.
			11
			OF
			16
			REV. 0

**33995**

1051 Vancouver St., Victoria, BC V8T 3K3  
 T: (250) 361-3030 F: (250) 361-3745



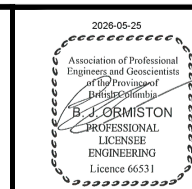
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PLOT DATE: May 25, 2026

REV NO	REVISIONS	DATE	DRAWN	APPR'D
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2				
3				
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**CIVIL DETAILS  
MMCD SUPPLEMENTALS**

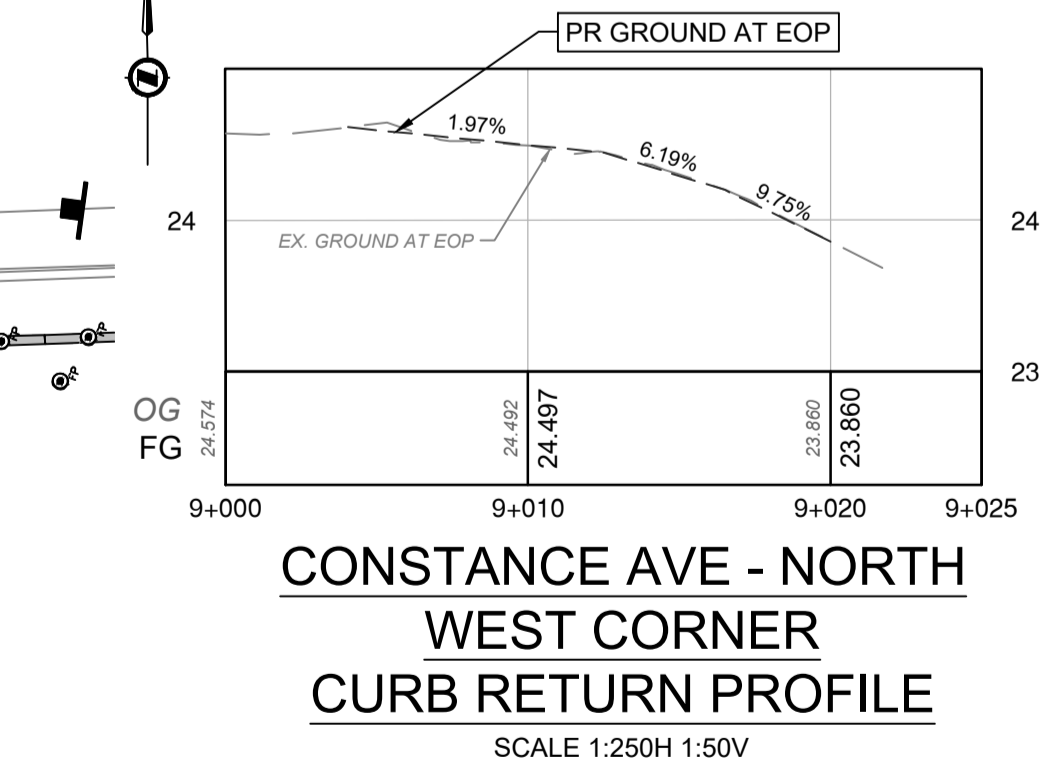
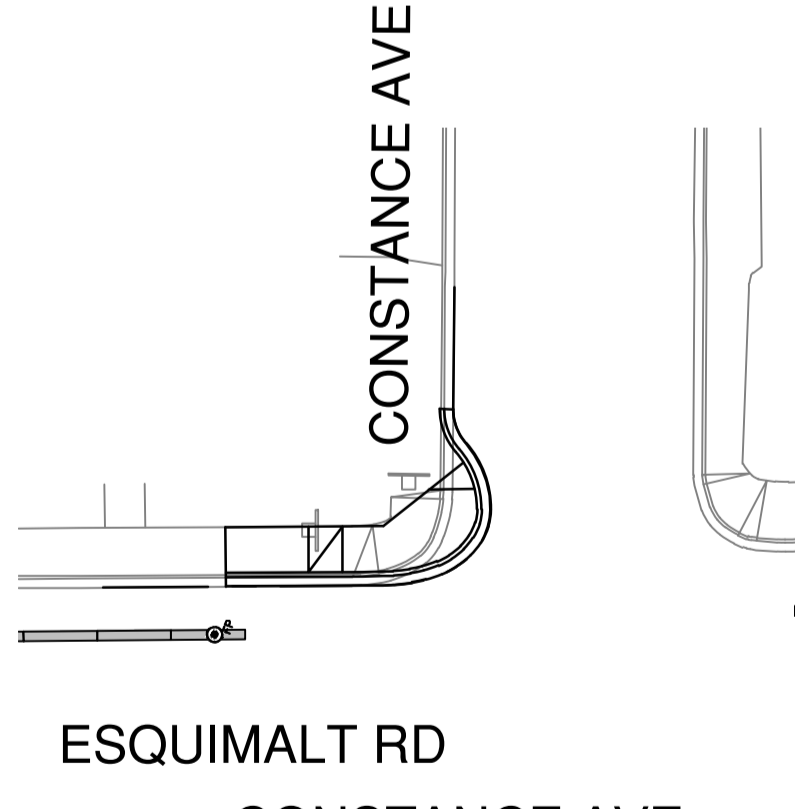
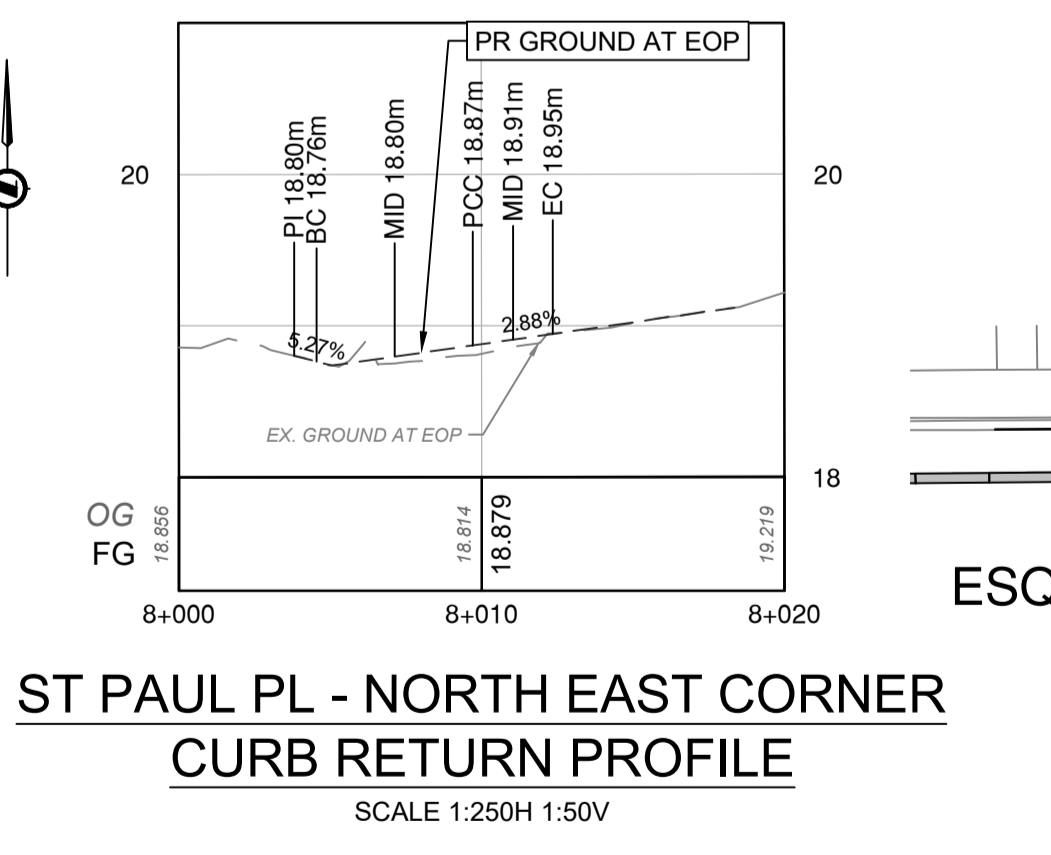
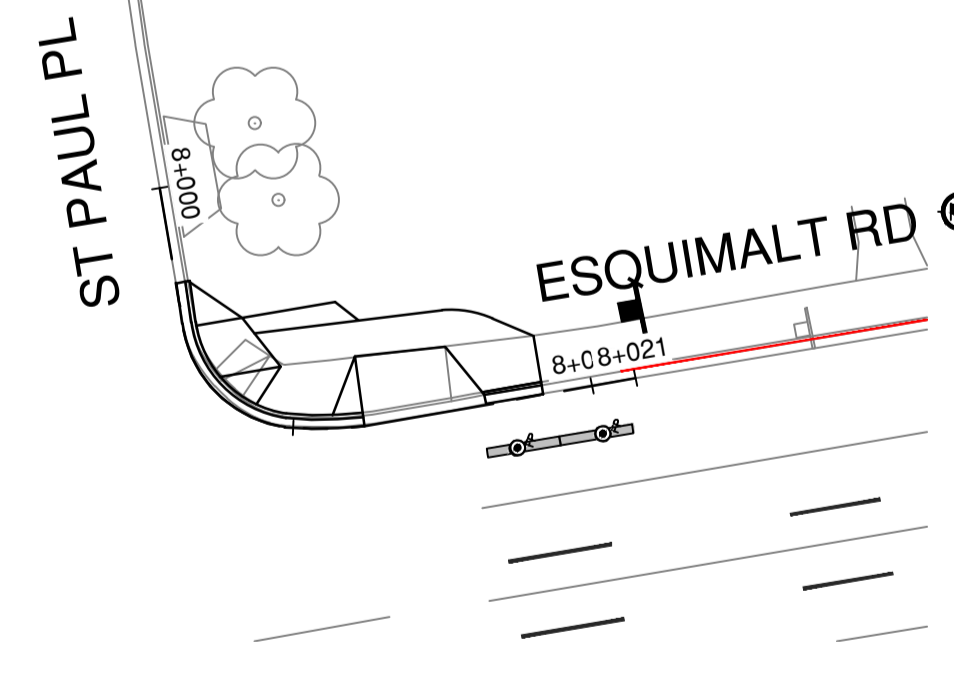
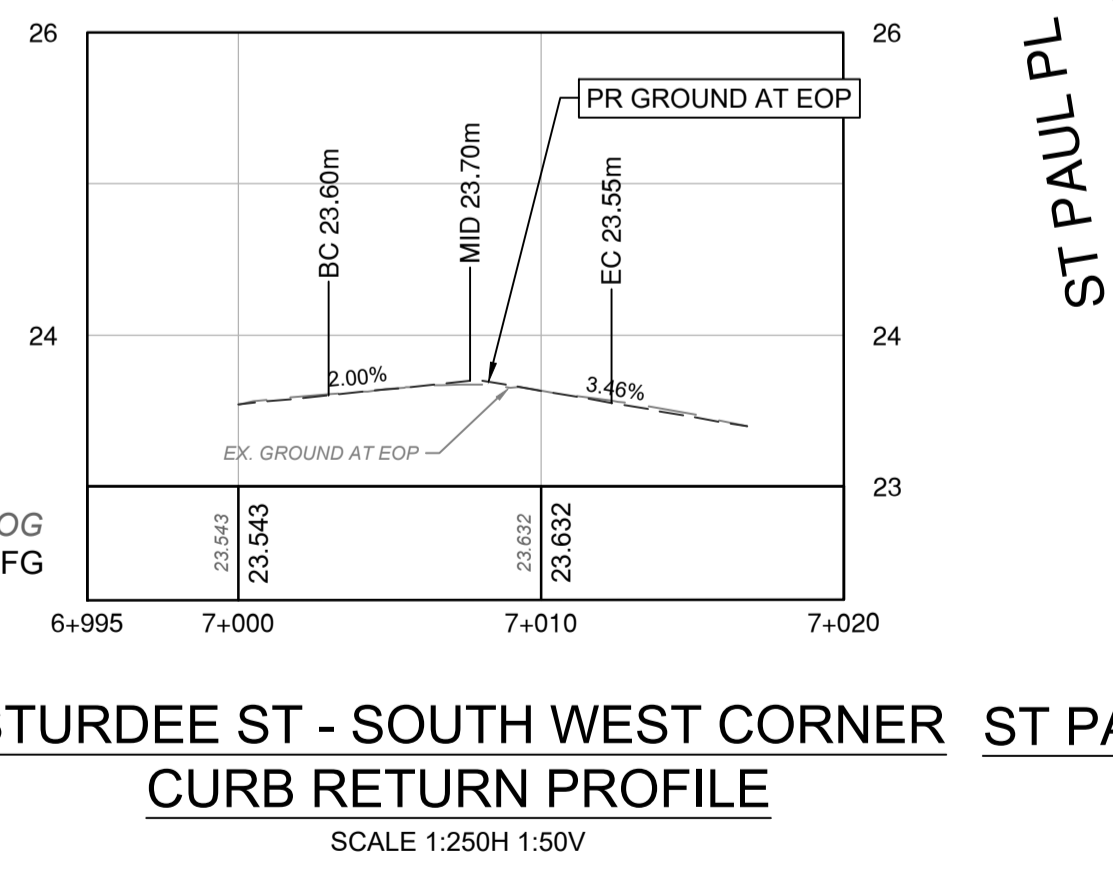
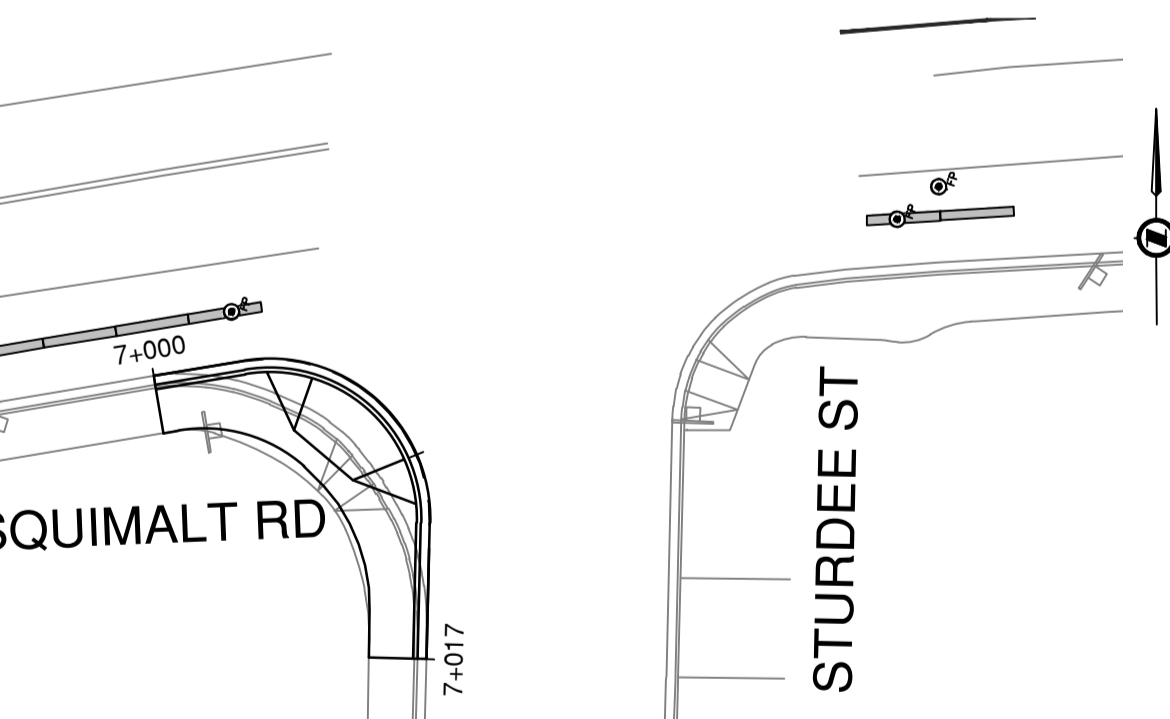
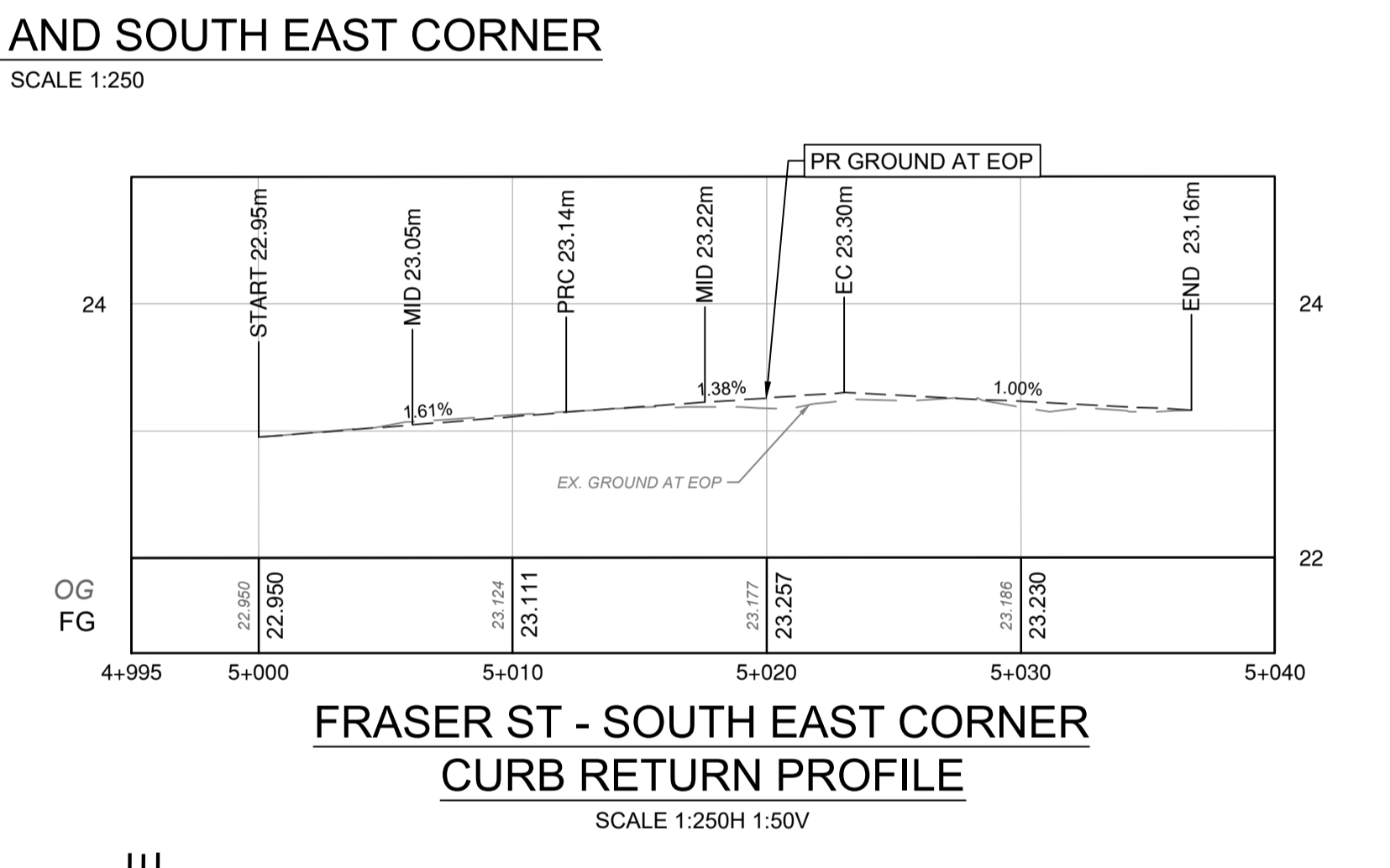
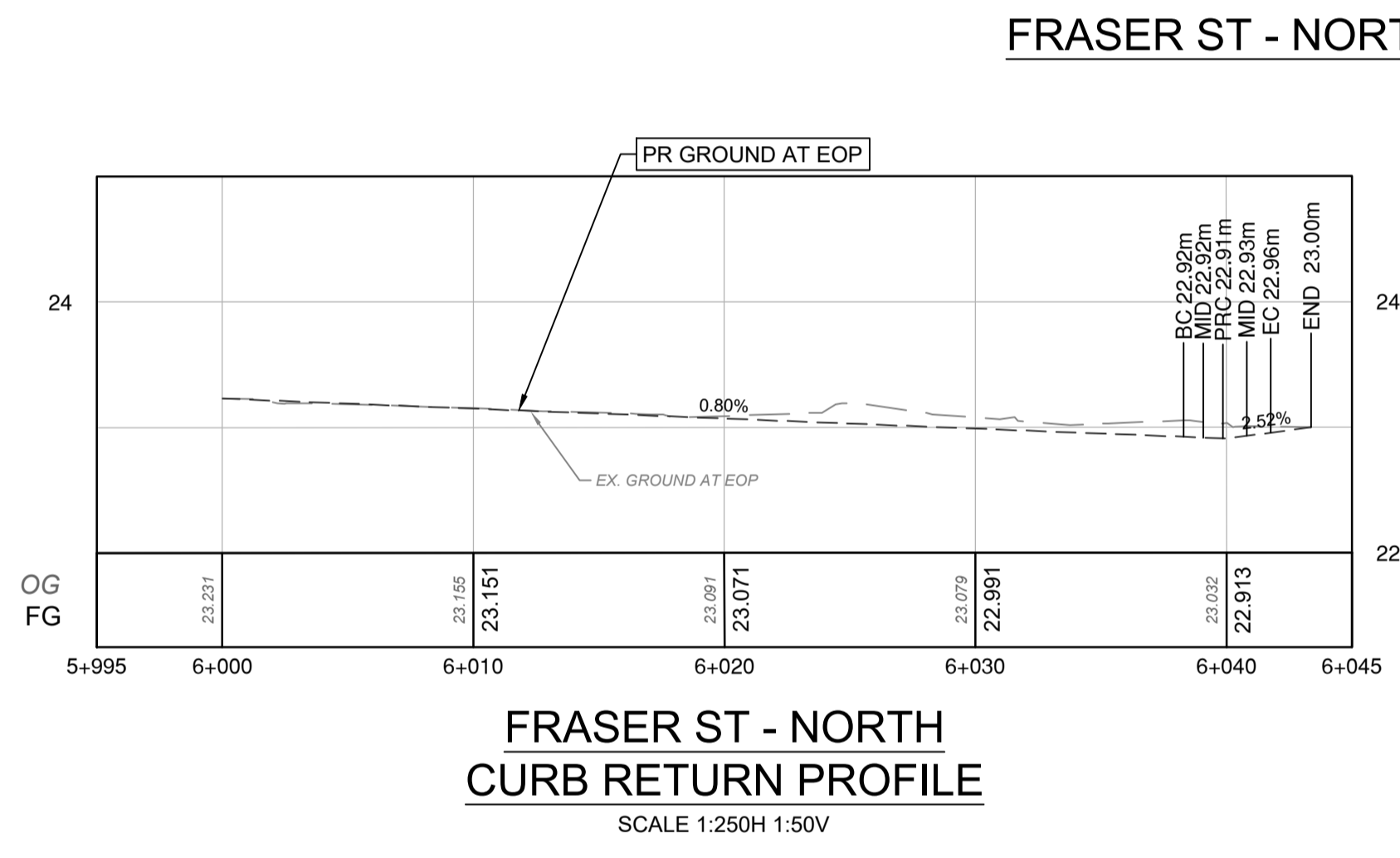
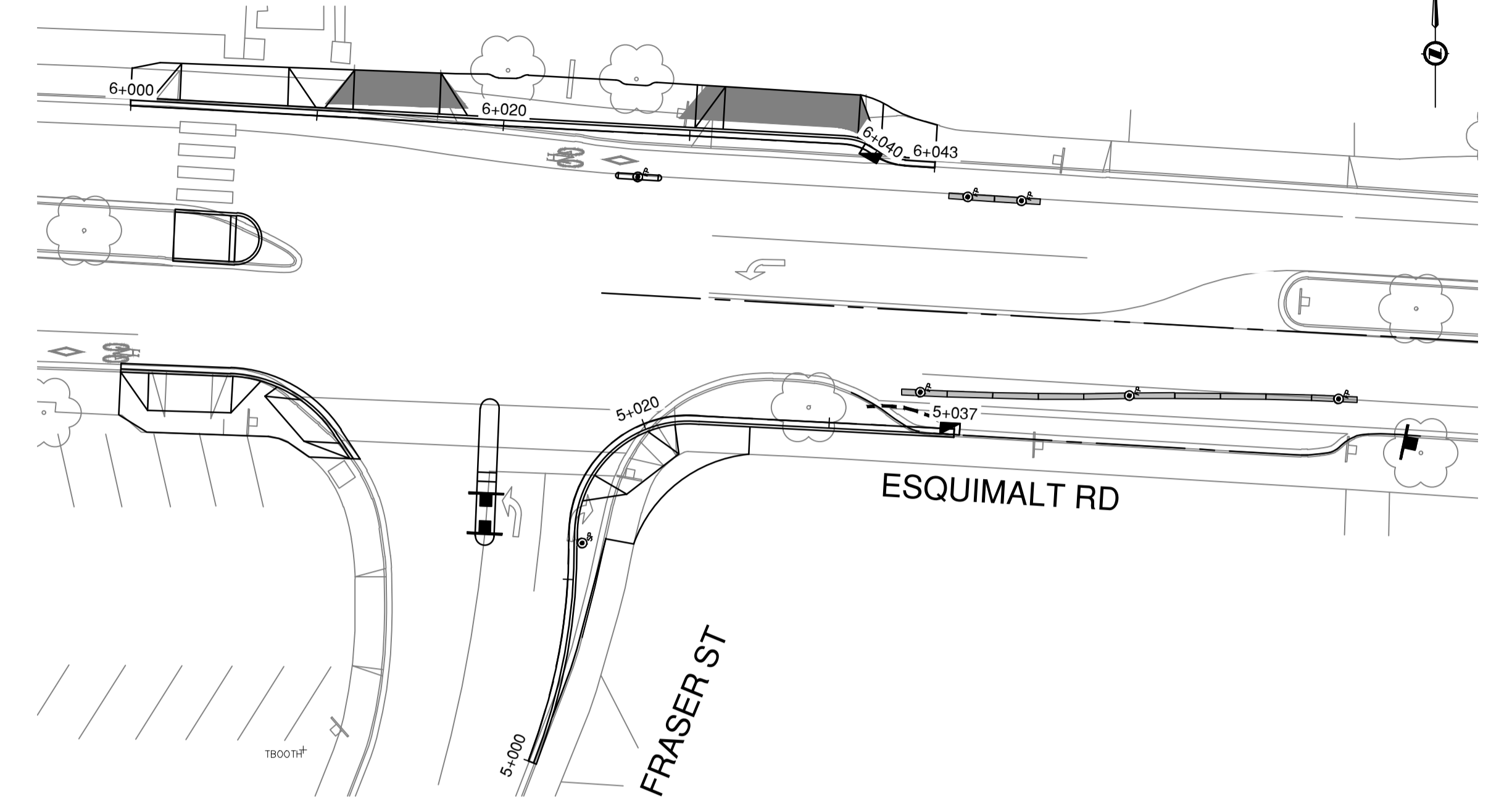
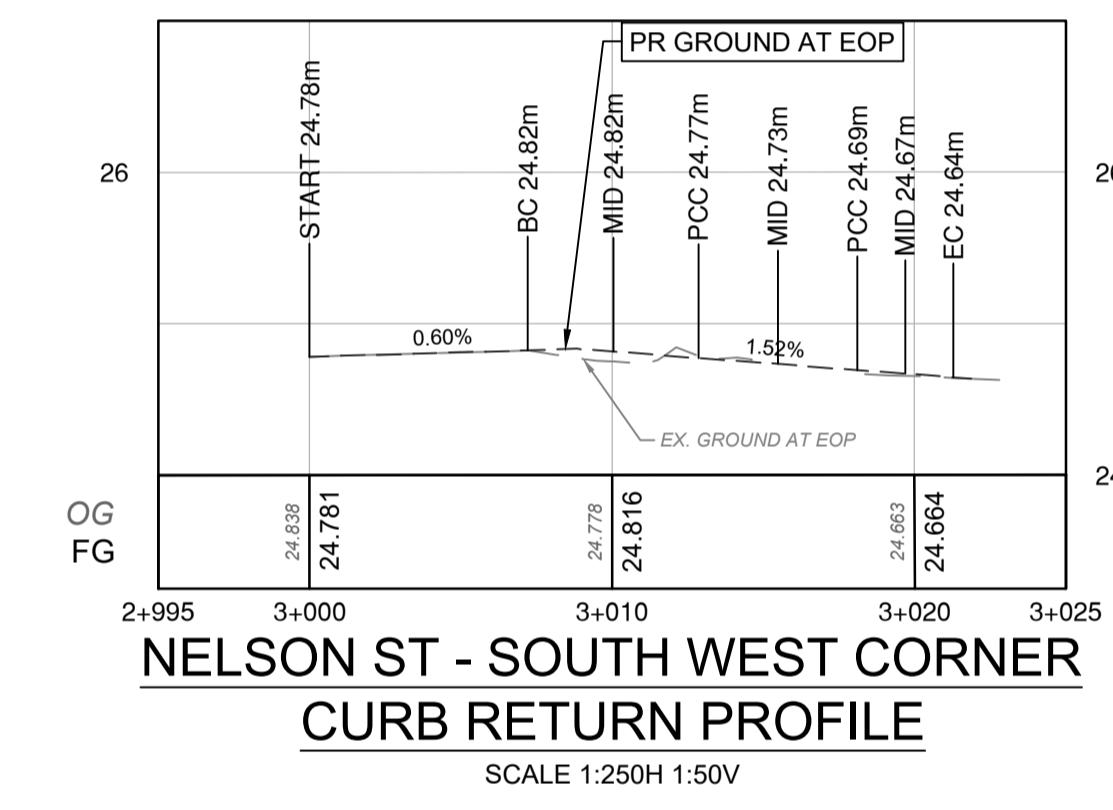
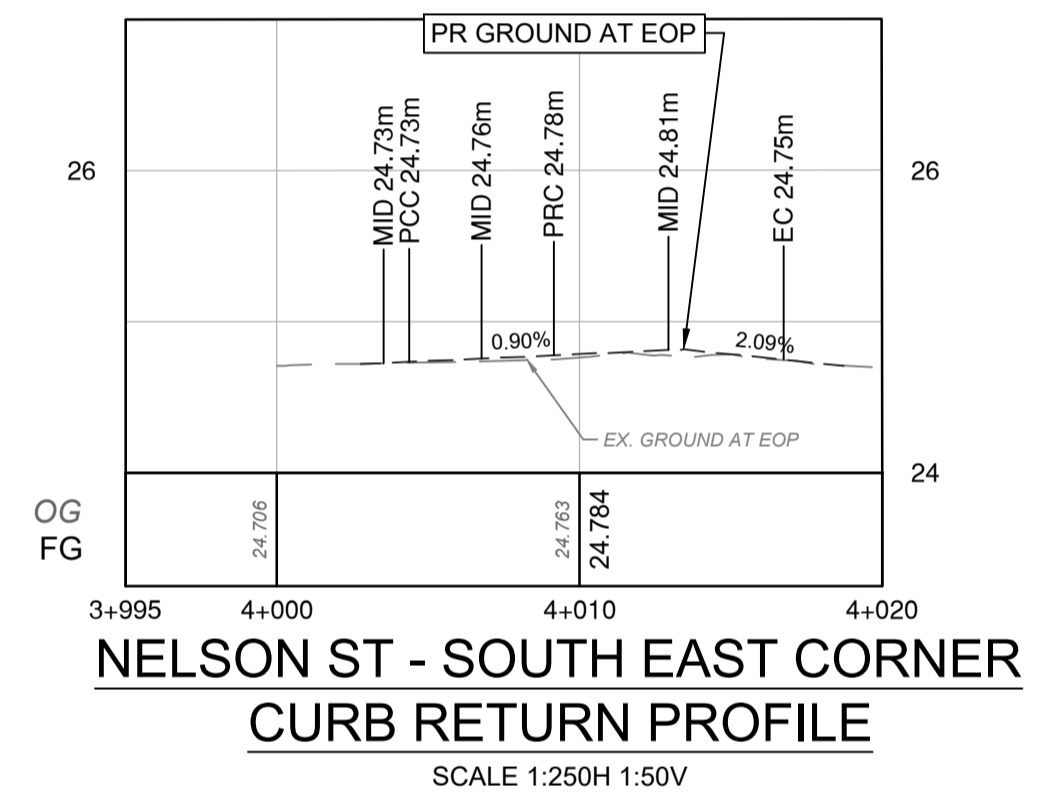
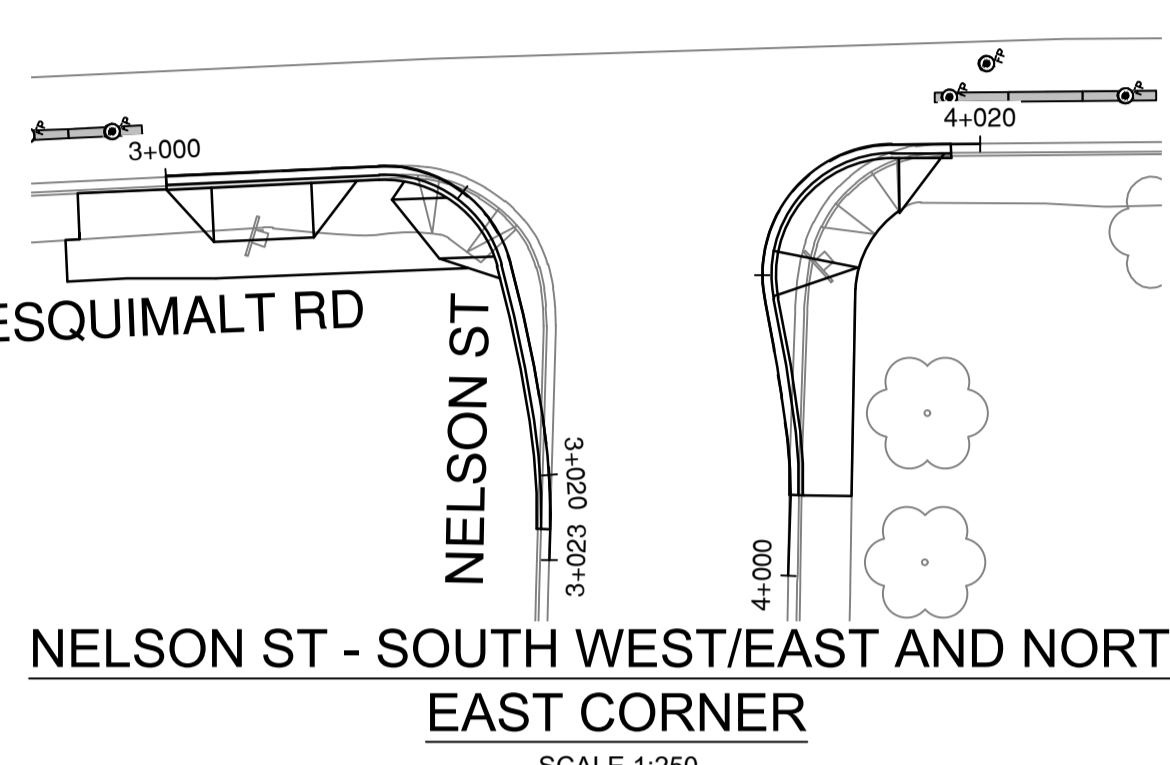
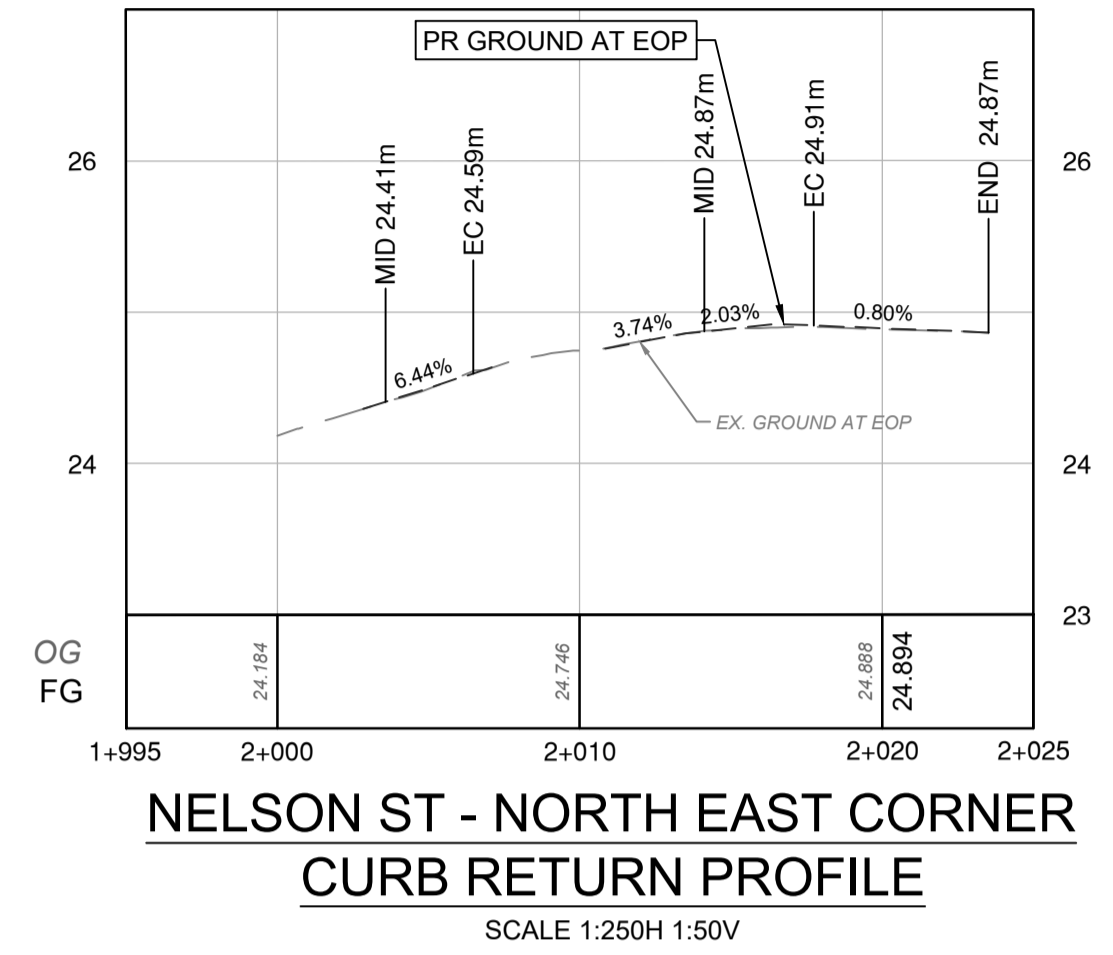
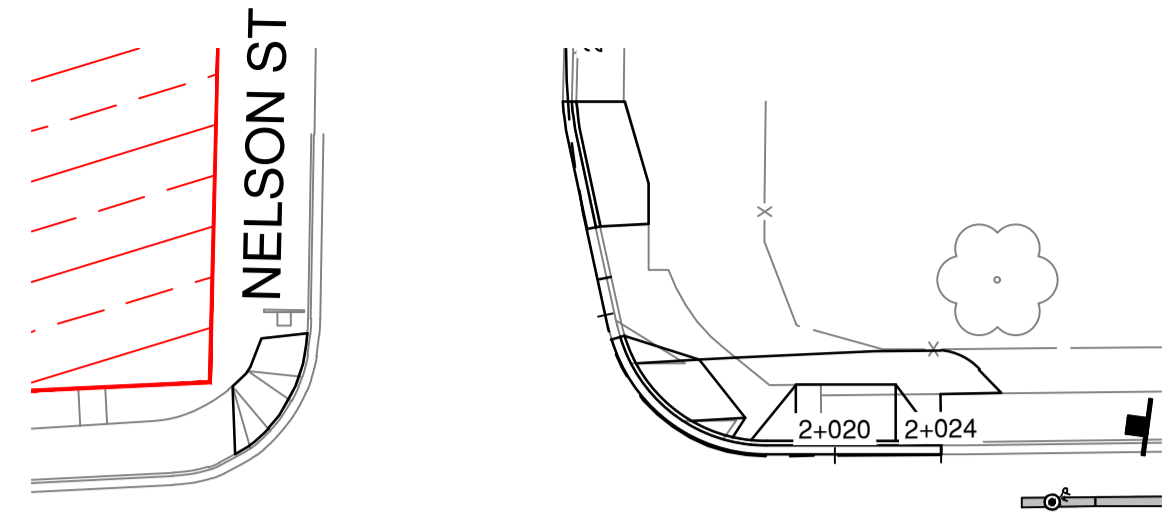


1051 Vancouver St, Victoria, BC V8T 3K3  
T: (250) 361-3030 F: (250) 361-3765

ISSUED FOR TENDER DESIGN NO.

SCALE	N.T.S.	CREATION DATE	2025/10/15	DWG. NO.	12
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CHECKED BY	ECH	APPROVED BY	BJO	REV.	0

**33995**

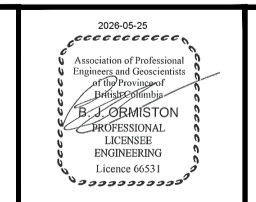


NOTE: CURB RETURNS ARE TO GENERALLY MATCH EXISTING ROAD CROSSFALL AND GRADING. INSTALL LAYOUT MARKERS ON THE ROADWAY SIDE OF THE PROPOSED CURB LINE.

REV NO	REVISIONS	DATE	DRAWN	APPR'D
0	ISSUED FOR TENDER	2026/05/22	EJS	BJO
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CIVIL DETAILS  
CURB RETURNS



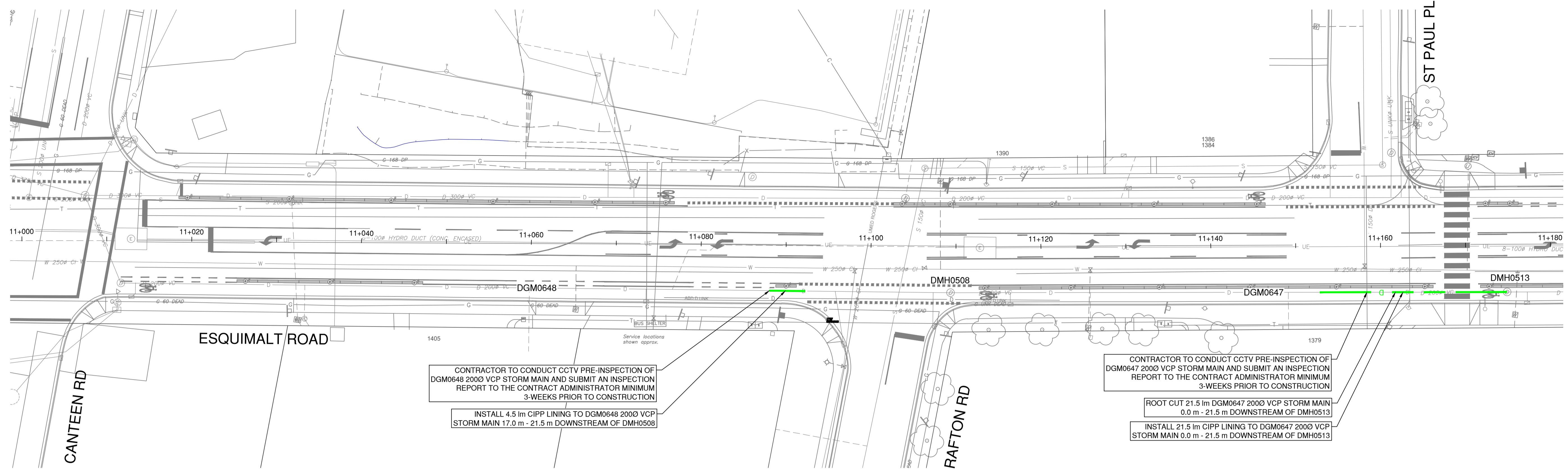
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CHECKED BY	ECH	APPROVED BY	BJO	REV.	0

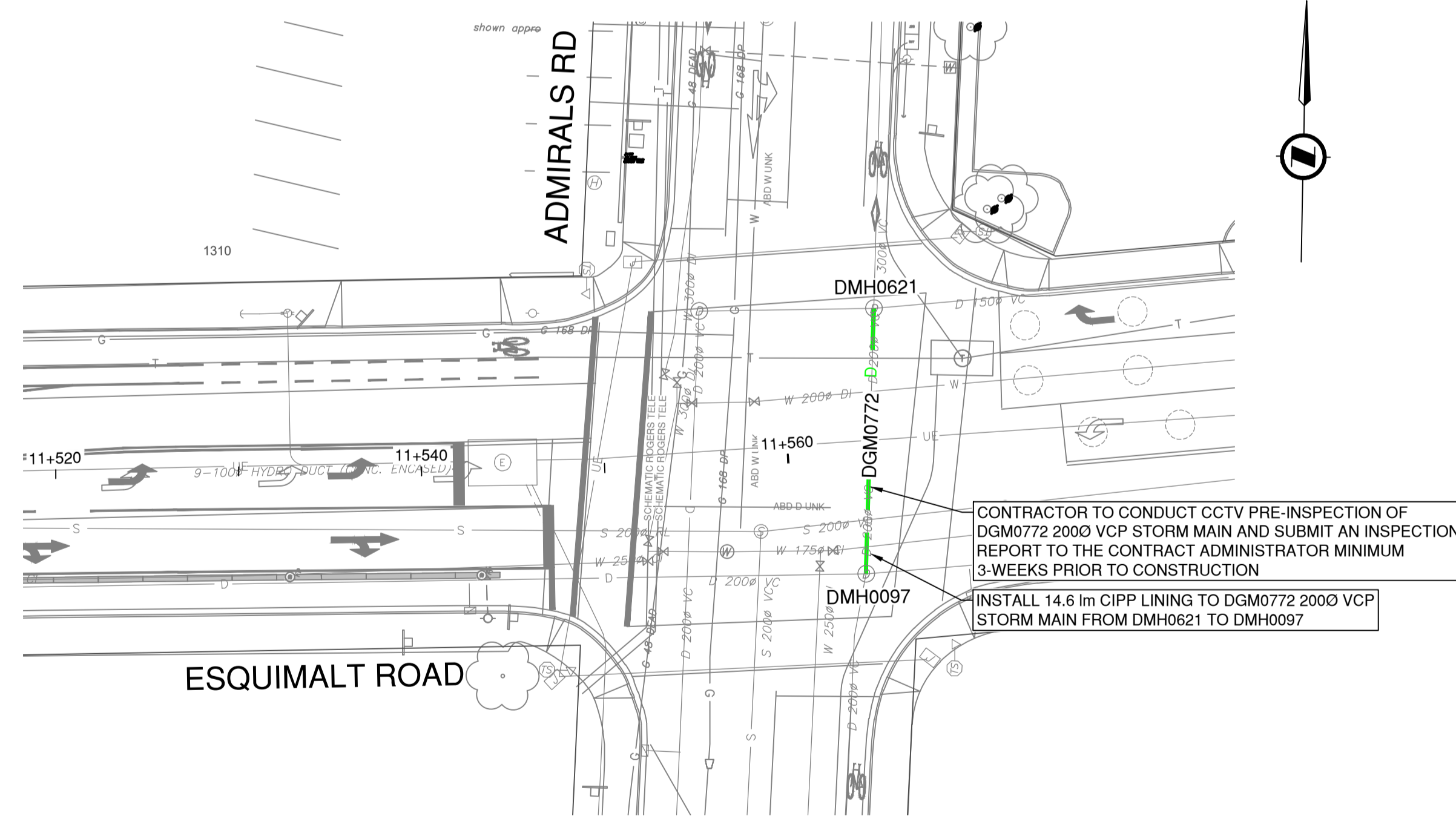
33995



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PLAN  
SCALE: 1:250



PLAN  
SCALE: 1:250



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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
0	ISSUED FOR TENDER	2026/05/22	EJS	BJO
1				
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**STORM  
SEWER**

**UTILITY PLAN**

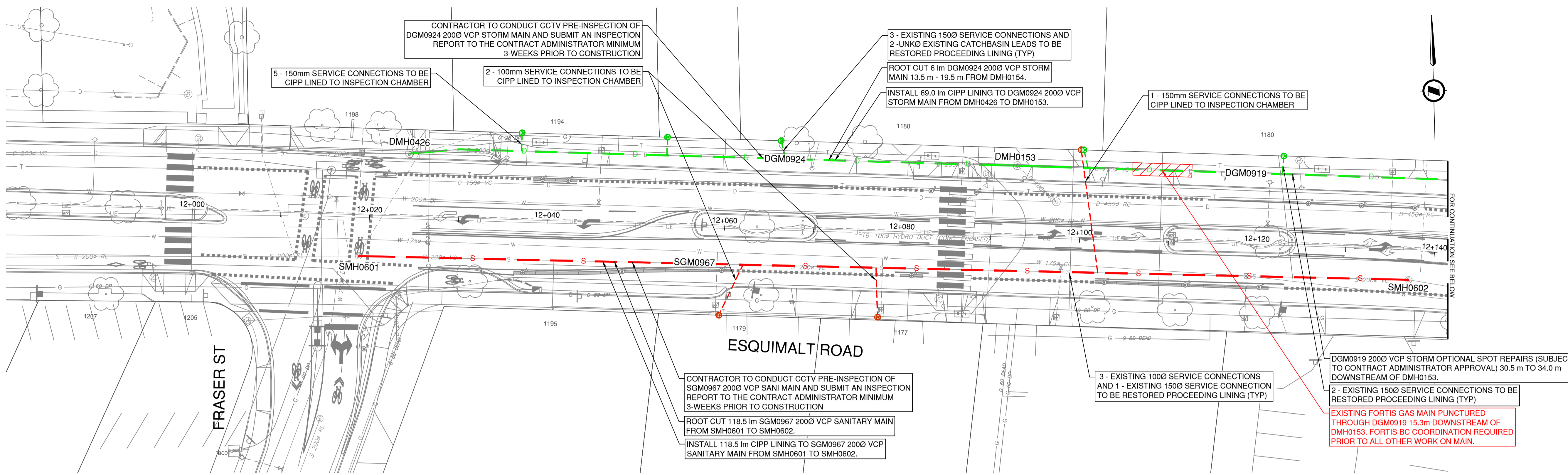
STA. 11+000 TO 11+180 AND STA. 11+520 TO 11+560



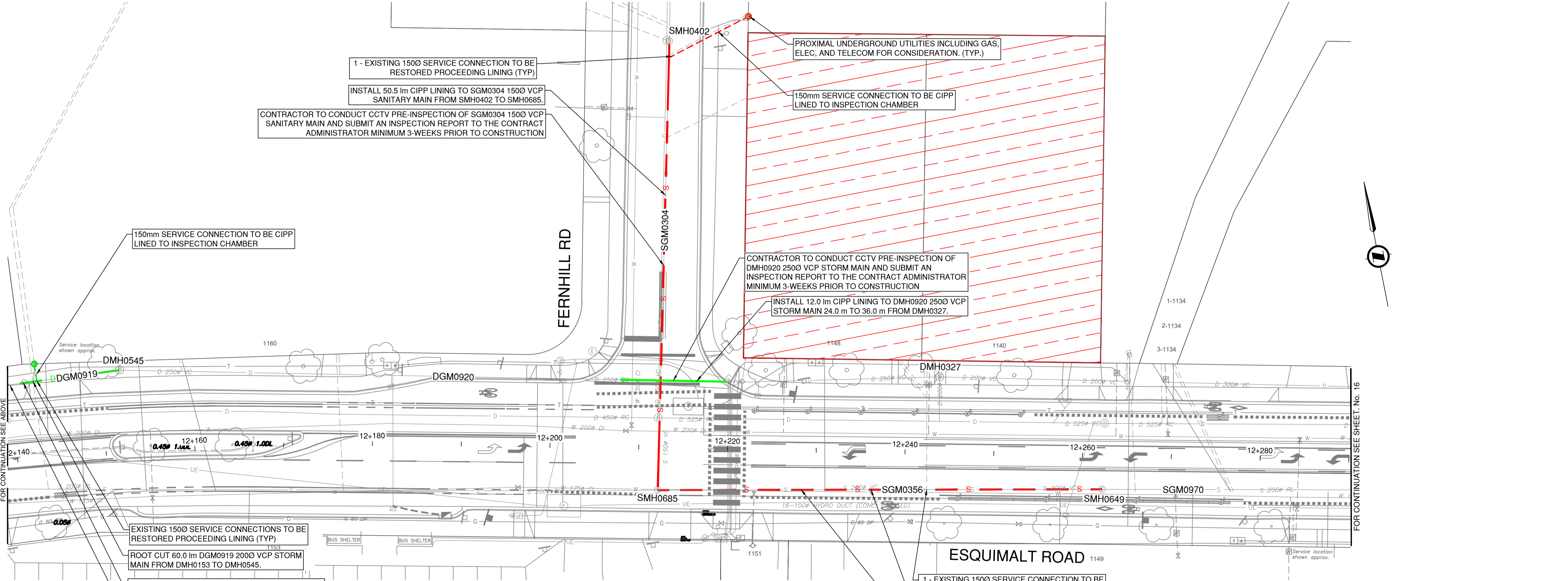
ISSUED FOR TENDER

DESIGN NO. **33995**

SCALE	1:250	CREATION DATE	2025/10/17	DWG. NO.
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CHECKED BY	ECH	APPROVED BY	BJO	16
PLOT DATE	May 25, 2026			REV. 0

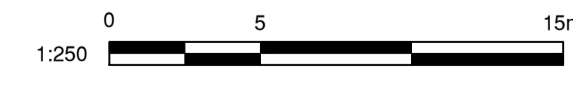


PLAN  
SCALE: 1:250



PLAN  
SCALE: 1:250

1 - EXISTING 1500 SERVICE CONNECTION TO BE RESTORED PROCEEDING LINING (TYP)  
INSTALL 50.0 m CIPP LINING TO SGM0356 2000 VCP SANITARY MAIN FROM SMH0685 TO SMH0649.  
CONTRACTOR TO CONDUCT CCTV PRE-INSPECTION OF SGM0356 2000 VCP SANITARY MAIN AND SUBMIT AN INSPECTION REPORT TO THE CONTRACT ADMINISTRATOR MINIMUM 3-WEEKS PRIOR TO CONSTRUCTION



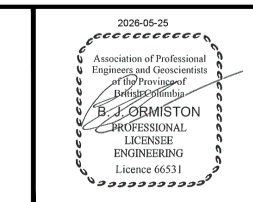
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
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**STORM  
SEWER**

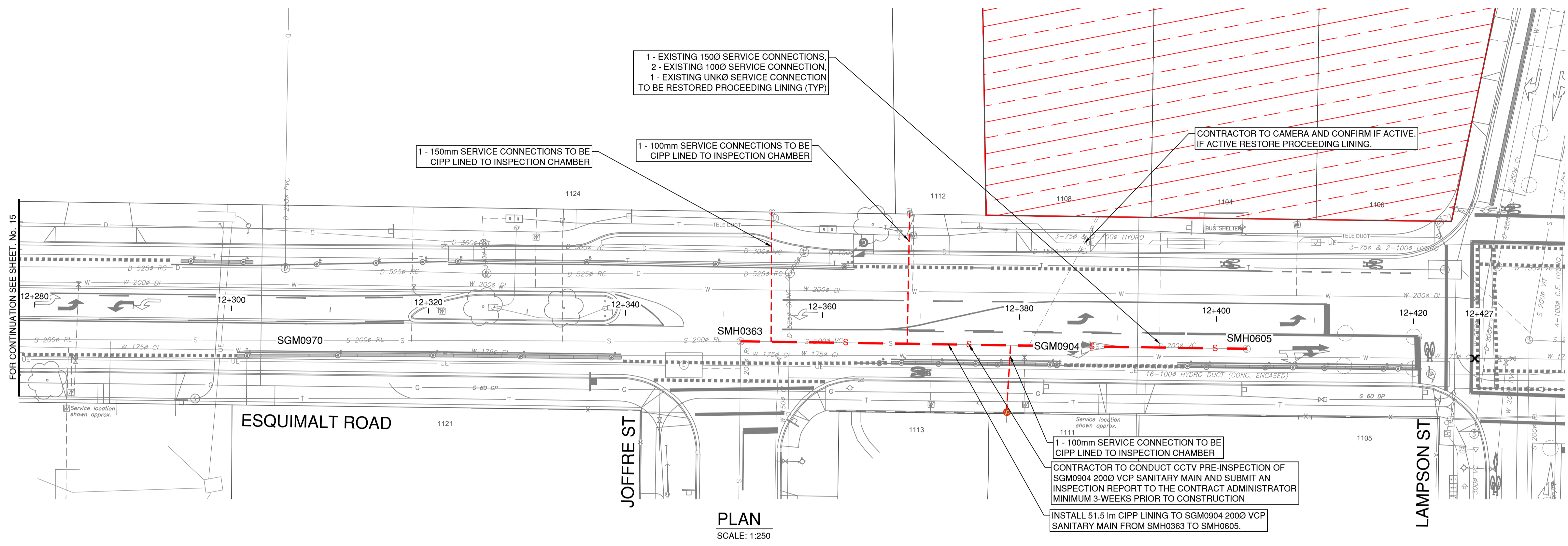
**UTILITY PLAN**  
STA. 12+000 TO STA. 12+280



ISSUED FOR TENDER DESIGN NO.

SCALE	1:250	CREATION DATE	2025/10/17	DWG. NO.
DRAWN BY	EJS	DESIGN BY	EJS	15 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0
PLOT DATE	May 25, 2026			

**33995**



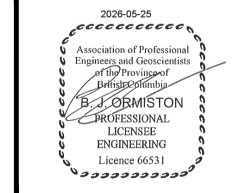
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REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
0	ISSUED FOR TENDER	2026/05/22	EJS	BJO
1				
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4				



**SANITARY  
SEWER**

**UTILITY PLAN**  
STA. 12+280 TO STA. 12+420



1051 Vancouver St, Victoria, BC V8V 3K3  
T: (250)561-3230 F: (604)629-5756

ISSUED FOR TENDER DESIGN NO.

**33995**

SCALE	1:250	CREATION DATE	2025/10/17	DWG. NO.
DRAWN BY	EJS	DESIGN BY	EJS	16 OF 16
CHECKED BY	ECH	APPROVED BY	BJO	REV. 0
PLOT DATE	May 25, 2026			

# TOWNSHIP OF ESQUIMALT ESQUIMALT ROAD - PROJECT 2 STREET LIGHTING & SIGNALS ISSUED FOR TENDER

## ELECTRICAL NOTES

- GENERAL NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND THE TOWNSHIP OF ESQUIMALT SUBDIVISION AND DEVELOPMENT CONTROL BYLAW No. 3128
  - ELECTRICAL WORK SHALL CONFORM TO LATEST EDITION OF CANADIAN ELECTRICAL CODE AND BULLETINS PUBLISHED BY TECHNICAL SAFETY BC.
  - 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.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS, AS REQUIRED BY TECHNICAL SAFETY BC.
  - ALL SIGNAL HEAD SECTIONS SHALL BE WIRED SEPARATELY FROM THE HANDLE OF THE POLE TO EACH HEAD INCLUDING A SEPARATE NEUTRAL AND BONDING CONDUCTOR FOR EACH HEAD.
  - ALL REDUNDANT HOLES IN POLES SHALL BE TREATED WITH GALVANIC PAINT AND PLUGGED USING SUITABLE GALVANIZED PLUG OR COVER PLATE.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  - ALL CONCRETE BASES AND JUNCTION BOX STANDS ARE NOT TO SCALE.
  - THE CONTRACTOR SHALL NOT PRE-DRILL HOLES IN A SIGNAL POLE UNTIL AFTER THE BASE FOR THAT POLE HAS BEEN INSTALLED. THE CONTRACTOR SHALL ADVISE THE CONTRACT ADMINISTRATOR OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.
  - CONTRACTOR SHALL CONFIRM THE SERVICE CONNECTION WITH BC HYDRO.
  - THE CONTRACTOR SHALL ENSURE THERE IS NO INTERRUPTION OF THE EXISTING LIGHTING DURING DARKNESS HOURS.
  - ENSURE CLEARANCES FROM OVERHEAD UTILITY LINES MEET UTILITY AND WORKSAFE BC REGULATIONS PRIOR TO CONCRETE BASE INSTALLATION. CONTACT PBX ENGINEERING IN THE EVENT OF CONFLICT.
  - ALL COMMON CIRCUIT WIRING SHALL BE TAGGED AND TYPED AS DETAILED IN THE MMCD, SECTION 26 56 01, SUBSECTION 3.A.
  - HANDLEDS SHALL BE POSITIONED ON THE DOWNSTREAM TRAFFIC SIDE OF THE POLE OR BEHIND.
  - LANE CLOSURES DURING CONSTRUCTION SHALL BE PERMITTED BETWEEN 9am and 3pm ONLY UNLESS OTHERWISE COORDINATED WITH AND APPROVED BY THE TOWNSHIP. CONTRACTOR SHALL ADVISE THE TOWNSHIP OF ESQUIMALT 2 DAYS IN ADVANCE OF PLANNED LANE CLOSURE ACTIVITY TO ALLOW THE TOWNSHIP TO NOTIFY LOCAL EMERGENCY RESPONSE DEPARTMENTS INCLUDING FIRE DEPARTMENT, AMBULANCE, POLICE, AND BC TRANSIT OF ANY ROAD CLOSURES.

## ELECTRICAL CIVIL NOTES

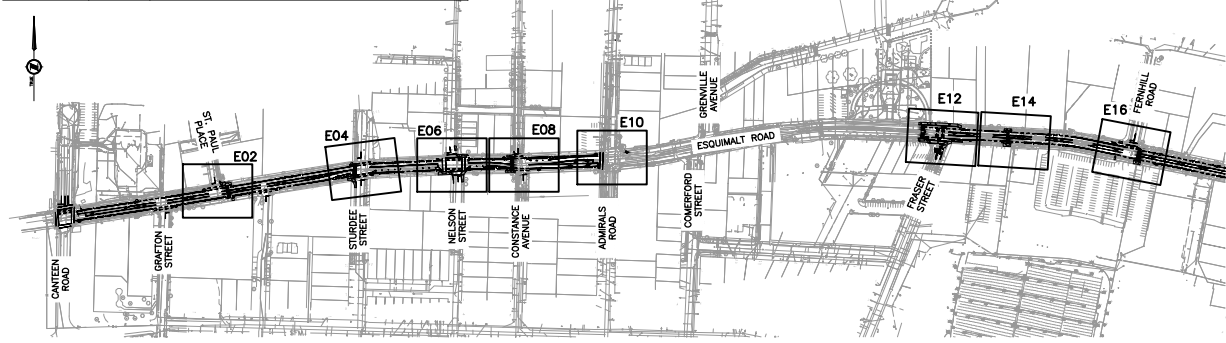
- ALL CONDUITS FROM JUNCTION BOXES TO BASES SHALL BE 53mm RPVC.
- ALL EMPTY CONDUITS SHALL HAVE A PULL STRING AND SHALL BE CAPPED. PULL STRING SHALL BE POLYPROPYLENE WITH A MINIMUM TENSILE STRENGTH OF 1.1 kN.
- ALL EXISTING WIRING, CONDUIT AND BASES TO BE REMOVED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR.
- 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.
- ALL CONDUITS SHALL BE VERIFIED AND CLEANED USING THE FOLLOWING PROCEDURE:  
IN THE EVENT OF EXISTING CONDUIT FAILURE, NOTIFY CONTRACT ADMINISTRATOR.  
• TO VERIFY INTEGRITY OF CONDUIT, PULL THROUGH EACH DUCT, A HARD RUBBER MANDEREL NOT LESS THAN 300mm LONG AND OF A DIAMETER 6mm LESS THAN INTERNAL DIAMETER OF DUCT, PRECEDED BY A SHIM OF SUITABLE DIAMETER TO REMOVE SAND, DIRT 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.
- POLES/POSTS SHALL BE OFFSET AS FOLLOWS UNLESS SPECIFIED OTHERWISE ON SITE PLANS:  
• POLES WITH CYCLIST PUSHBUTTONS SHALL BE INSTALLED 300mm FROM FACE OF CURB.  
• POLES WITHOUT CYCLIST PUSHBUTTONS SHALL BE INSTALLED MINIMUM 600mm FROM FACE OF CURB.

## ELECTRICAL MATERIAL SPECIFICATIONS

- ALL MATERIALS SHALL BE NEW AND SUPPLIED FROM THE "APPROVED PRODUCTS LIST" EXCEPT WHERE NOTED. ALL LIKE MATERIALS SHALL BE FROM THE SAME MANUFACTURER.
- 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 CONTRACTORS EXPENSE.
- JUNCTIONS SHALL BE STRANDED COPPER, RHW9 XLPE INSULATED AND COLOUR CODED UNLESS OTHERWISE NOTED.
- JUNCTION BOXES SHALL BE (UNLESS NOTED OTHERWISE):  
• STREET LIGHTING/RRFB - DFW PLASTICS INC. DFW1730C4-18-4DP BLANK C/W MANUFACTURERS BOLT DOWN LID. REFER TO MMCD STANDARD DRAWING E.1.1.  
• TRAFFIC SIGNALS - DFW PLASTICS INC. DFW1730C4-18-4DP. JUNCTION BOX LID SHALL BE SECURED WITH MANUFACTURERS SUPPLIED DEVICE. REFER TO MMCD STANDARD DRAWING E.1.1.
- ALL NEW POLES SHALL BE GALVANIZED STEEL.
- SHOP DRAWINGS OF ALL NEW SIGNAL POLES MUST BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER TO VERIFY POLE LOADING PASSES MOTT REQUIREMENTS.
- TRAFFIC SIGNAL CONTROLLER SYSTEM COMPONENTS:  
• ECONOLITE TS2 TYPE 1 PLUG-IN-00  
• P44D CABINET  
• ECONOLITE COBALT CONTROLLER  
• 16 CHANNEL MMJ SMART MONITOR  
• 8 PHASE 12 POSITION 1/8 CHANNEL RP  
• 16 CHANNEL DET. BACK  
• COUPLER SHIELD  
• FRAM FILTER  
• ENSURE TRAFFIC CONTROLLER CABINET CONTAINS 16 LOAD SWITCH BAYS
- UPS EQUIPMENT - VALID MANUFACTURING: KSD4483014 CABINET INCLUDING:  
• FMM 1100 UPS: 017-201-32  
• AUTOMATIC TRANSFER SWITCH: 020-165-21  
• BATTERY CABLE KIT: SPH-022-04  
• 4x12VDC BATTERIES: 195 XTV BATTERIES: 1810228  
• ALPHA GUARD BATTERY CHARGER: AG-CHRG5

DRAWING LIST		
DRAWING NO.	REV.NO	DESCRIPTION
E01	1	NOTES AND LEGEND
E02	1	SITE PLAN ENLARGEMENT - ST. PAUL PLACE AT ESQUIMALT ROAD
E03	1	ELEVATIONS - ST. PAUL PLACE AT ESQUIMALT ROAD
E04	1	SITE PLAN ENLARGEMENT - STURDEE STREET AT ESQUIMALT ROAD
E05	1	ELEVATIONS - STURDEE STREET AT ESQUIMALT ROAD
E06	1	SITE PLAN ENLARGEMENT - NELSON STREET AT ESQUIMALT ROAD
E07	1	ELEVATIONS - NELSON STREET AT ESQUIMALT ROAD
E08	1	SITE PLAN ENLARGEMENT - CONSTANCE AVENUE AT ESQUIMALT ROAD
E09	1	ELEVATIONS - CONSTANCE AVENUE AT ESQUIMALT ROAD
E10	1	SITE PLAN ENLARGEMENT - ADMIRALS ROAD AT ESQUIMALT ROAD
E11	1	ELEVATIONS - ADMIRALS ROAD AT ESQUIMALT ROAD
E12	1	SITE PLAN ENLARGEMENT - FRASER STREET AT ESQUIMALT ROAD
E13	1	ELEVATIONS - FRASER STREET AT ESQUIMALT ROAD
E14	1	SITE PLAN ENLARGEMENT - 1188 ESQUIMALT ROAD
E15	1	ELEVATIONS - 1188 ESQUIMALT ROAD
E16	1	SITE PLAN ENLARGEMENT - FERNHILL ROAD AT ESQUIMALT ROAD
E17	1	ELEVATIONS - FERNHILL ROAD AT ESQUIMALT ROAD

APPROVED PRODUCT LIST					
PRODUCTS	MANUFACTURER	SPECIFICATIONS	EXCEPTIONS	SUPPLIER	COMMENTS
POLES, SIGNAL ARM, AND ANCHOR BOLTS	WEST COAST ENGINEERING/NOVA POLE	MMCD/MoTT	-	CONTRACTOR	GALVANIZED
SIDE MOUNT BRACKETS	GREEN LITE	MoTT	-	CONTRACTOR	
SIGNAL HEADS	ECONOLITE/FORTRAN	MoTT	-	CONTRACTOR	
LED DISPLAYS	DAUGHT 433	MMCD/MoTT	-	CONTRACTOR	
PEDESTRIAN HEADS	ECONOLITE/FORTRAN	MoTT	-	CONTRACTOR	COLOUR TO MATCH EXISTING
COUNTDOWN LED PEDESTRIAN DISPLAYS	DURALIGHT	JM620-7MMHEAD JM620-1E	-	CONTRACTOR	COLOUR TO MATCH EXISTING
PEDESTRIAN PUSHBUTTON (AT RFB CROSSINGS)	POLARA	INX 9W0-Y-80	-	CONTRACTOR	AUDIBLE MESSAGE "YELLOW LIGHTS ARE FLASHING" AND PBP8X15-Y SIGN ADAPTER RUBBER TONE FOR EAST-WEST CROSSINGS SHALL BE A "CAN. MELODY" SOUND, NORTH-WEST CROSSINGS SHALL BE A "CLOCKW." SOUND
PEDESTRIAN PUSHBUTTON (AT INTERSECTIONS)	POLARA	INS2 9W0-Y-80	-	CONTRACTOR	COLOUR TO MATCH EXISTING
CYCLIST PUSHBUTTON	POLARA	BULLDOG	-	CONTRACTOR	COLOUR TO MATCH EXISTING
SERVICE PANEL (AT RFB CROSSING)	VALID MANUFACTURING	HWSP12-65-M	-	CONTRACTOR	
SERVICE PANEL (AT INTERSECTIONS)	VALID MANUFACTURING	HWSP12-105-M	-	CONTRACTOR	
JUNCTION BOXES	DFW PLASTICS INC	DFW37C4-18-4DP DFW1730C4-18-4DP	-	CONTRACTOR	
RRFB'S (120V HARDWIRED)	CARMANAH	R620-MX 300-AC C/W 91154 REMOTE BLE ANTENNA KIT	-	CONTRACTOR	



LEGEND (SOLID FILL DENOTES EXISTING)	
	DECORATIVE LUMINAIRE POLE
	LUMINAIRE POLE (SINGLE)
	LUMINAIRE POLE (DOUBLE)
	RRFB POLE
	DFW PLASTICS DFW37C4-18-4DP JUNCTION BOX
	DFW PLASTICS DFW1730C4-18-4DP JUNCTION BOX (TRAFFIC SIGNALS)
	SIGNAL POLE WITH SIGNAL HEAD MOUNTED ON SIDE
	COMBINATION LUMINAIRE/TRAFFIC SIGNAL POLE
	LANE-USE SIGN POLE
	ILLUMINATED SIGN W/ AMBER FLASHERS
	POWER/TELEPHONE POLE
	PHOTO ELECTRIC CELL
	RIGID P.V.C. CONDUIT
	TRAFFIC CONTROLLER
	RANGED CURB
	PROPERTY LINE
	EDGE OF GRAVEL SHOULDER
	EDGE OF PAVEMENT
	PAINT LINE
	FUTURE ELECTRICAL AND GEOMETRICS
	ELECTRICAL EQUIPMENT TO BE REMOVED
	PROPOSED UNDERGROUND CONDUIT
	EXISTING UNDERGROUND CONDUIT
	FENCE
	CORRUGATED METAL PIPE (CULVERT)
	U/G UTILITY: "G" DENOTES GAS "S" DENOTES STORM DRAINS/SEWERS "W" DENOTES WATER "E" DENOTES ELECTRIC "T" DENOTES TELEPHONE "SNT" DENOTES SANITARY SEWER

LED LUMINAIRE PRODUCT LIST				
MANUFACTURER	MODEL No.	WATTAGE	DISTRIBUTION TYPE	QUANTITY
AMERICAN ELECTRIC	ATBO P203 MVOLT R2 3K NL P7 PCLL	70W LED	TYPE II	1
AMERICAN ELECTRIC	ATBO P203 MVOLT R3 3K NL P7 SH	70W LED	TYPE II	5
AMERICAN ELECTRIC	ATBO P303 MVOLT R3 3K NL P7 PCLL	106W LED	TYPE II	4
AMERICAN ELECTRIC	ATBO P303 MVOLT R3 3K NL P7 SH	106W LED	TYPE II	3
AMERICAN ELECTRIC	ATBO P453 MVOLT R3 3K NL P7 PCLL	159W LED	TYPE II	2

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - LATEST EDITION AND TOWNSHIP OF ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR APPLICABLE STANDARDS AND DRAWINGS

**ISSUED FOR TENDER  
NOT FOR CONSTRUCTION**

**ELECTRICAL DRAWING: E01  
33995**

ISSUED FOR TENDER DESIGN NO.

REV NO	REVISIONS	DATE	DRAWN	APPROV
1	ISSUED FOR TENDER	20/05/25	PBX	MD



## STREET LIGHTING & SIGNALS NOTES AND LEGEND



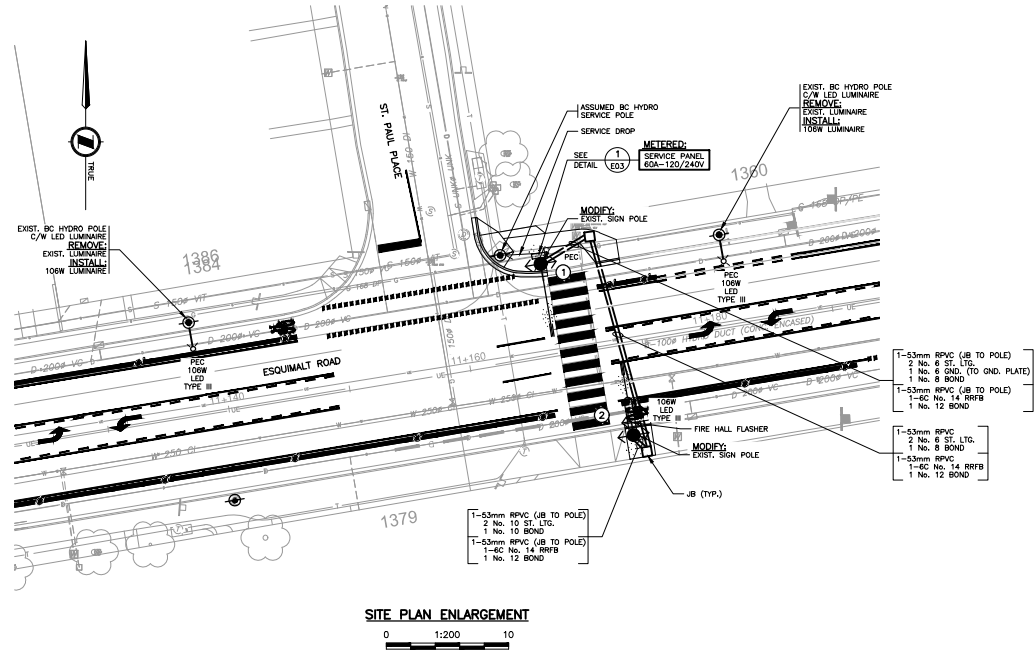
PBX ENGINEERING Ltd.  
Suite 201 - 1221 Broad St.  
Victoria BC V8W 2A4  
Tel 250.388.7222  
www.pbweng.com

SCALE	AS NOTED	DATE	20/05/25
DRAWN BY	PBX	DESIGN BY	AJB
CHECKED BY	TN	APPROVED BY	MD

DWG. NO.	1
OF	17
REV.	

PBX ENGINEERING LTD.  
 PERMIT TO PRACTICE NUMBER:  
 1000208

INTERSECTION LIGHTING DESIGN CRITERIA		
INTERSECTION NAME	ESQUIMALT ROAD AT ST. PAUL PLACE	
ROAD CLASSIFICATION	MAJOR/LOCAL	
PEDESTRIAN CONFLICT	MEDIUM	
WATTAGE/TYPE/ LUMINAIRE MANUFACTURER/ MODEL NUMBER	100W LED/TYPE II/AMERICAN ELECTRIC/AT80 P303 MVOLT R3 3K	
	RECOMMENDED ILLUMINANCE	ACHIEVED ILLUMINANCE
ILLUMINATION LEVEL (AVG.)	20.0 LUX	21.3 LUX
UNIFORMITY RATIO (AVG/MIN)	3.0:1	3.0:1
NOTE: BASED ON IESNA RP-8-25 (TABLE 12-1)		



SITE PLAN ENLARGEMENT  
 0 1:200 10

ALL EQUIPMENT IS PROPOSED  
 UNLESS NOTED OTHERWISE

ISSUED FOR TENDER  
 NOT FOR CONSTRUCTION



**CHECK BEFORE YOU DIG**  
 CONTRACTOR SHALL CONFIRM THE LOCATIONS  
 OF ALL UNDERGROUND UTILITIES.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS  
 (MMCD) - LATEST EDITION AND TOWNSHIP OF  
 ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR  
 APPLICABLE STANDARDS AND DRAWINGS

ELECTRICAL DRAWING: E02  
**33995**

REV NO	REVISIONS	DATE	DRAWN	APPROV
1	ISSUED FOR TENDER	2025/25	PBX	MD



**STREET LIGHTING & SIGNALS**  
 SITE PLAN ENLARGEMENT - ST. PAUL PLACE AT ESQUIMALT ROAD

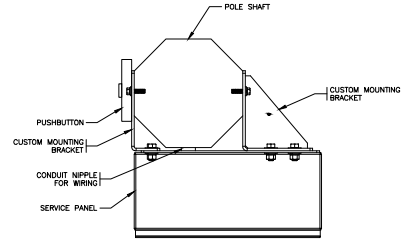
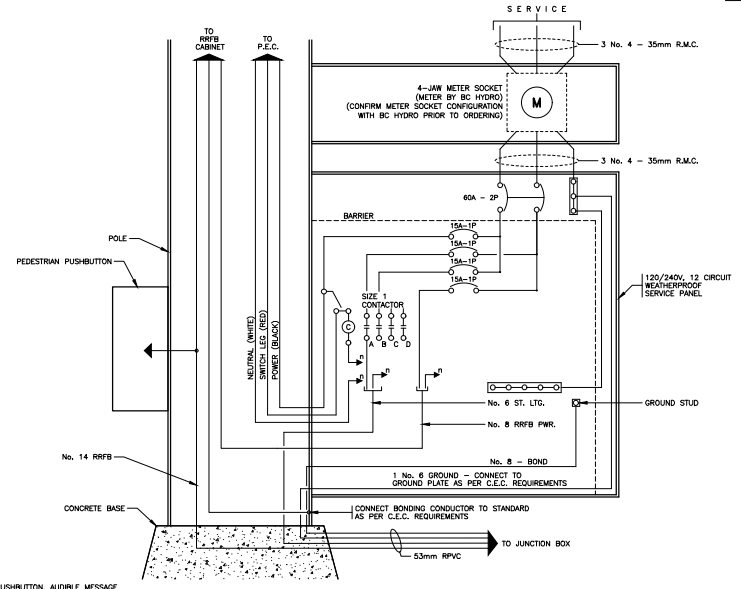
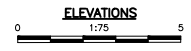
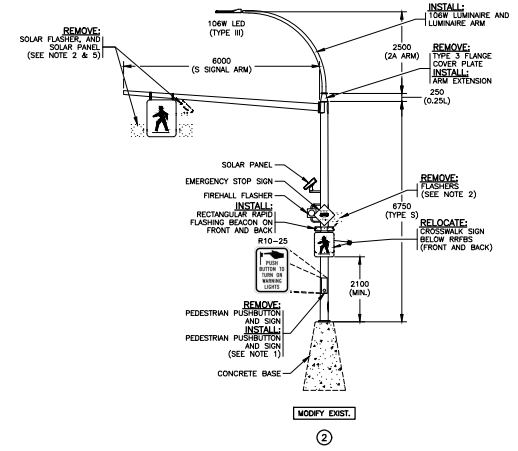
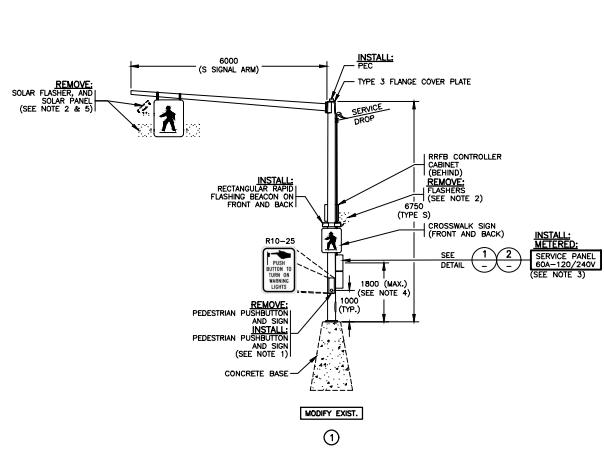


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SCALE	AS NOTED	DATE	26/05/25	DWG. NO.
DRAWN BY	PBX	DESIGN BY	AJB	2 OF 17
CHECKED BY	TN	APPROVED BY	MD	REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS NO.

File: P:\33995 - Esquimalt - St. Paul Place - Electrical - E02.dwg | PLOT DATE: 2025/05/25



DETAIL 2-2-2 TOP VIEW OF CUSTOM MOUNTING BRACKET  
N.T.S. - E03, E13

FUNCTIONAL DESIGN OF MOUNTING BRACKET ONLY. CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATION.

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

- NOTES:**
1. PEDESTRIAN PUSHBUTTON SHALL BE POLARA INX AUDIBLE PUSHBUTTON. AUDIBLE MESSAGE SHALL BE "YELLOW LIGHTS ARE FLASHING".
  2. RETURN SOLAR FLASHER PANEL AND BATTERY TO ESQUIMALT PUBLIC WORKS YARD.
  3. SERVICE PANEL SHALL BE INSTALLED WITH CUSTOM MOUNTING BRACKET TO OFFSET SERVICE PANEL ON POLE TO PREVENT CONFLICT WITH PUSHBUTTON. CONTRACTOR SHALL SUBMIT SERVICE PANEL SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING. REFER TO DETAIL 2.
  4. SERVICE METERS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 1500mm AND MAXIMUM HEIGHT OF 1800mm TO THE CENTER OF THE VIEWING WINDOW.
  5. EXTERIOR OF SIGN STRUCTURE SHALL BE SEALED BY THE INSTALLATION OF METAL PLATES WHERE SOLAR FLASHER EQUIPMENT WAS REMOVED.

DETAIL 1-1 WIRING DIAGRAM - METERED SERVICE PANEL  
N.T.S. - E02

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - LATEST EDITION AND TOWNSHIP OF ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR APPLICABLE STANDARDS AND DRAWINGS

ISSUED FOR TENDER DESIGN NO. **ELECTRICAL DRAWING: E03**  
**33995**

REV NO	REVISIONS	DATE	DRAWN	APPROVED
1	ISSUED FOR TENDER	2023/25	PBX	MD



**STREET LIGHTING & SIGNALS**  
ELEVATIONS - ST. PAUL PLACE AT ESQUIMALT ROAD

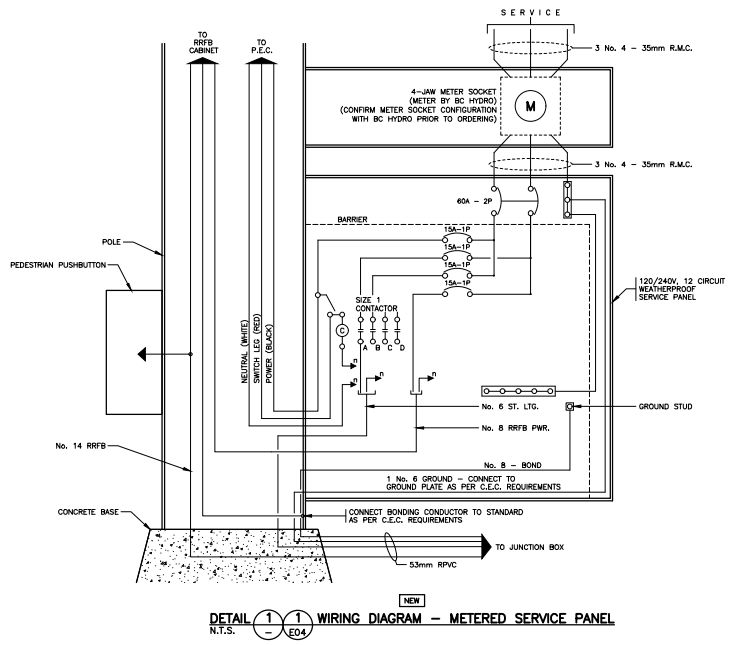
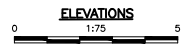
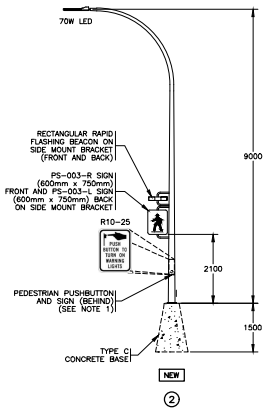
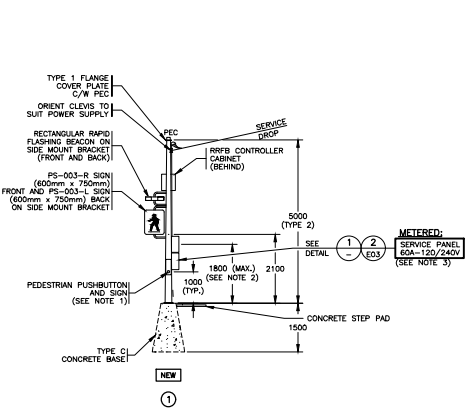


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DRAWN BY	PBX	DESIGN BY	AJB
CHECKED BY	TN	APPROVED BY	MD

DWG. NO.	3
OF	17
REV.	1





- NOTES:**
1. PEDESTRIAN PUSHBUTTON SHALL BE POLARA WIX AUDIBLE PUSHBUTTON. AUDIBLE MESSAGE SHALL BE "YELLOW LIGHTS ARE FLASHING".
  2. SERVICE METERS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 1500mm AND A MAXIMUM HEIGHT OF 1800mm TO THE CENTER OF THE VIEWING WINDOW.
  3. SERVICE PANEL SHALL BE INSTALLED WITH CUSTOM MOUNTING BRACKET TO OFFSET SERVICE PANEL ON POLE TO PREVENT CONFLICT WITH PUSHBUTTON. CONTRACTOR SHALL SUBMIT SERVICE PANEL SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING. REFER TO DETAIL 2 ON SHEET E03.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - LATEST EDITION AND TOWNSHIP OF ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR APPLICABLE STANDARDS AND DRAWINGS

ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

ELECTRICAL DRAWING: E05  
**33995**

ISSUED FOR TENDER DESIGN NO.

REV. NO.	REVISIONS	DATE	DRAWN	APPROVED
1	ISSUED FOR TENDER	26/05/25	PBX	MD



**STREET LIGHTING & SIGNALS**  
ELEVATIONS - STURDEE STREET AT ESQUIMALT ROAD

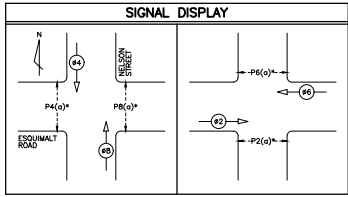


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DWG. NO.	5
OF	17
REV.	1

INTERSECTION LIGHTING DESIGN CRITERIA		
INTERSECTION NAME	ESQUIMALT ROAD AT NELSON STREET	
ROAD CLASSIFICATION	MAJOR/LOCAL	
PEDESTRIAN CONFLICT	MEDIUM	
WATTAGE/TYPE/ LUMINAIRE MANUFACTURER/ MODEL NUMBER	70W LED/TYPE II/AMERICAN ELECTRIC/ATRO P303 MVOLT R3 3K 100W LED/TYPE II/AMERICAN ELECTRIC/ATRO P303 MVOLT R3 3K	
	RECOMMENDED ILLUMINANCE	ACHIEVED ILLUMINANCE
ILLUMINATION LEVEL (AVG.)	20.0 LUX	31.1 LUX
UNIFORMITY RATIO (AVG/MIN)	3.0:1	2.6:1
NOTE: BASED ON IESNA RP-8-25 (TABLE 12-1)		



NOTE: (a) DENOTES PEDESTRIAN AUDIBLE SIGNAL.  
# DENOTES LEADING PEDESTRIAN INTERVAL.  
SEE NOTE 2

VIDEO DETECTOR CAMERA DETAILS		
CABLE DESCRIPTION	LABEL	VEHICLE MOVEMENT
VIDEO DETECTOR CAMERA NO. 1 ON POLE 4	VC1	EASTBOUND (#2)
VIDEO DETECTOR CAMERA NO. 2 ON POLE 5	VC2	SOUTHBOUND (#4)
VIDEO DETECTOR CAMERA NO. 3 ON POLE 2	VC3	WESTBOUND (#6)
VIDEO DETECTOR CAMERA NO. 4 ON POLE 3	VC4	NORTHBOUND (#8)

- NOTES:**
- RETURN LED LUMINAIRE TO ESQUIMALT PUBLIC WORKS YARD.
  - CONTRACTOR SHALL CONFIGURE OPPOSITE PEDESTRIAN SIGNALS TO ACTIVATE SIMULTANEOUSLY WHEN A CALL IS PLACED ON EITHER DUAL ENTRY SHALL BE CONFIGURED FOR OPPOSING VEHICLE PHASES.
  - CONTRACTOR SHALL CONTACT PBX ENGINEERING PRIOR TO INSTALLATION OF CONCRETE BASE TO CONFIRM OFFSET FROM BC HYDRO UTILITY POLE.

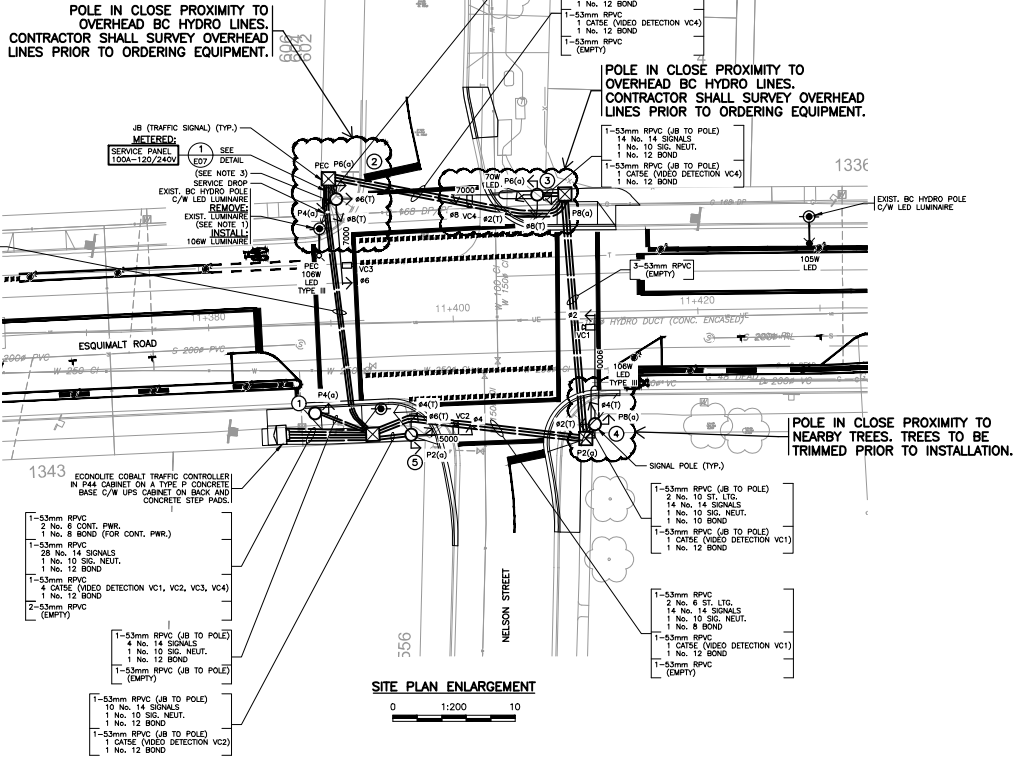
REV NO	REVISIONS	DATE	DRAWN	APPROV
1	ISSUED FOR TENDER	26/05/25	PBX	MD



**POLE IN CLOSE PROXIMITY TO OVERHEAD BC HYDRO LINES. CONTRACTOR SHALL SURVEY OVERHEAD LINES PRIOR TO ORDERING EQUIPMENT.**

**POLE IN CLOSE PROXIMITY TO OVERHEAD BC HYDRO LINES. CONTRACTOR SHALL SURVEY OVERHEAD LINES PRIOR TO ORDERING EQUIPMENT.**

**POLE IN CLOSE PROXIMITY TO NEARBY TREES. TREES TO BE TRIMMED PRIOR TO INSTALLATION.**



CONDUCTOR COLOUR CODE		
ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
#2	RED	RED
	YELLOW	YELLOW
#4	GREEN	BLUE
	RED	BROWN
#6	YELLOW	GREEN
	RED	YELLOW (RED T.I.)
#8	GREEN	BLUE
	RED	BROWN (ORANGE T.I.)
#2	YELLOW	YELLOW
	PUSH BUTTON	PURPLE/PURPLE (YELLOW T.I.)
#4	DONT WALK	BROWN
	PUSH BUTTON	PURPLE/PURPLE (BROWN T.I.)
#6	DONT WALK	YELLOW (RED T.I.)
	PUSH BUTTON	PURPLE/PURPLE (RED T.I.)
#8	DONT WALK	BROWN (ORANGE T.I.)
	PUSH BUTTON	PURPLE/PURPLE (ORANGE T.I.)
CONTROLLER POWER		BLACK
LUMINAIRE OCT. A		RED
LUMINAIRE OCT. B		BLACK
NEUTRAL		WHITE
GROUND/BOND		GREEN

NOTE: T.I. DENOTES TAPE TRACER.

**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 POLES.

**CHECK BEFORE YOU DIG**  
CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL UNDERGROUND UTILITIES.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - LATEST EDITION AND TOWNSHIP OF ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR APPLICABLE STANDARDS AND DRAWINGS

ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

ELECTRICAL DRAWING: E06  
**33995**

**STREET LIGHTING & SIGNALS**  
SITE PLAN ENLARGEMENT - NELSON STREET AT ESQUIMALT ROAD



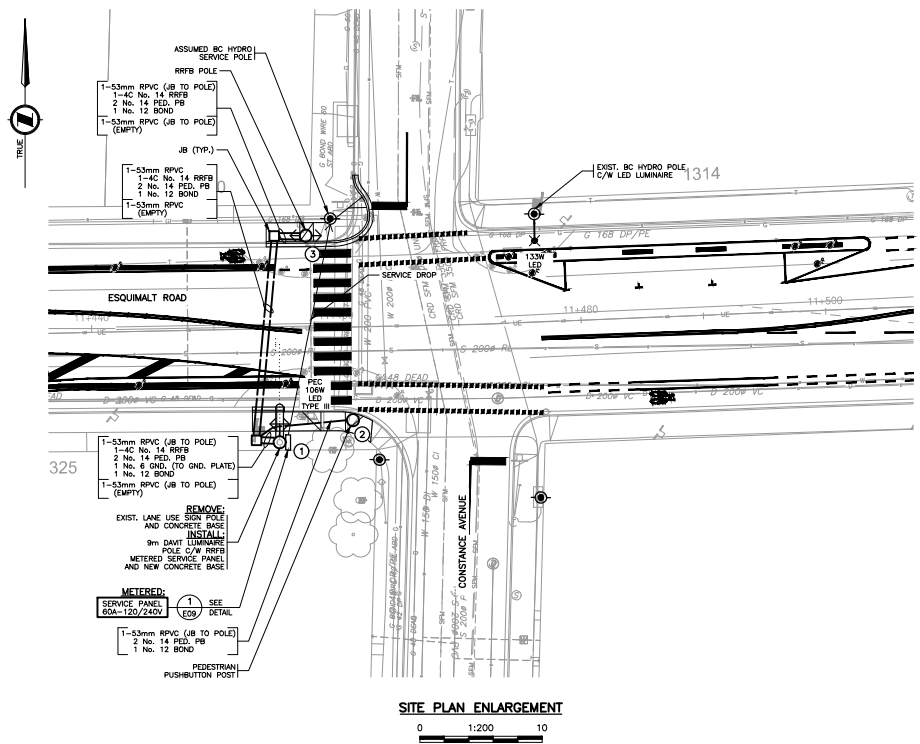
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Suite 201 - 1221 Broad St.  
Victoria BC V8W 2A4  
Tel: 250.388.7222  
www.pbxing.com

ISSUED FOR TENDER		DESIGN NO.	
SCALE	AS NOTED	DATE	26/05/25
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CHECKED BY	TN	APPROVED BY	MD
		DWG. NO.	6
		REV.	17
		REV.	1



PBX ENGINEERING LTD.  
 PERMIT TO PRACTICE NUMBER:  
 1000208

INTERSECTION LIGHTING DESIGN CRITERIA		
INTERSECTION NAME	ESQUIMALT ROAD AT CONSTANCE AVENUE	
ROAD CLASSIFICATION	MAJOR/LOCAL	
PEDESTRIAN CONFLICT	MEDIUM	
WATTAGE/TYPE/ LUMINAIRE MANUFACTURER/ MODEL NUMBER	100W LED/TYPE II/AMERICAN ELECTRIC/ATR2 40BLED10 MVOLT R3 4K 133W LED/TYPE II/AMERICAN ELECTRIC/ATR2 40BLED10 MVOLT R3 4K	
	RECOMMENDED ILLUMINANCE	ACHIEVED ILLUMINANCE
ILLUMINATION LEVEL (AVG.)	20.0 LUX	22.7 LUX
UNIFORMITY RATIO (AVG/MIN)	3.0:1	3.0:1
NOTE: BASED ON IESNA RP-8-25 (TABLE 12-1)		



ALL EQUIPMENT IS PROPOSED  
 UNLESS NOTED OTHERWISE

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 NOT FOR CONSTRUCTION



CHECK BEFORE YOU DIG  
 CONTRACTOR SHALL CONFIRM THE LOCATIONS  
 OF ALL UNDERGROUND UTILITIES.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS  
 (MMCD) - LATEST EDITION AND TOWNSHIP OF  
 ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR  
 APPLICABLE STANDARDS AND DRAWINGS

ELECTRICAL DRAWING: E08  
**33995**

REV. NO.	REVISIONS	DATE	DRAWN	APPROV.
1	ISSUED FOR TENDER	2005/25	PBX	MD



**STREET LIGHTING & SIGNALS**  
 SITE PLAN ENLARGEMENT - CONSTANCE AVENUE AT ESQUIMALT ROAD



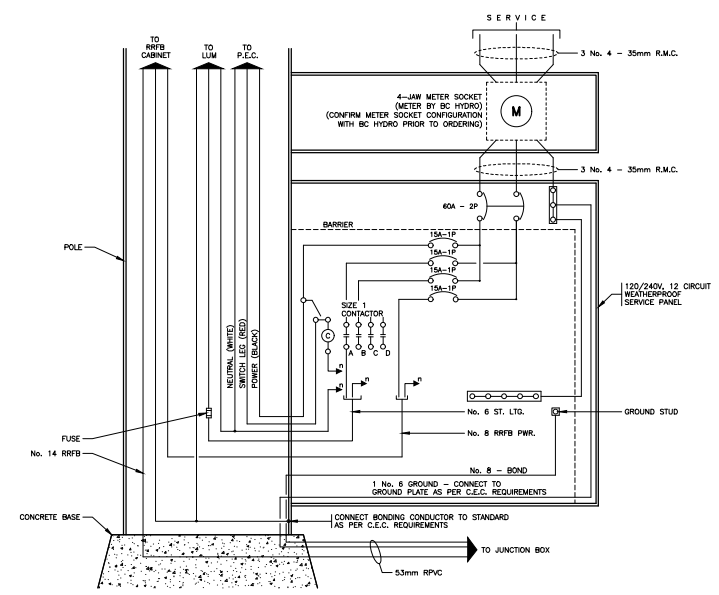
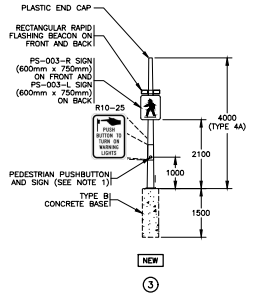
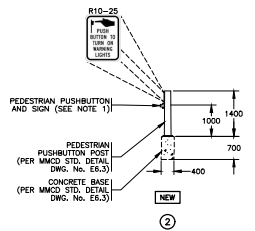
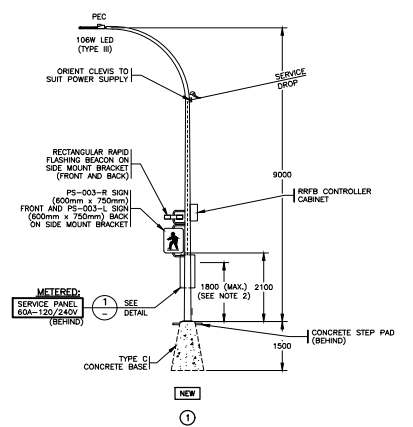
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 Victoria BC, V8W 2A4  
 Tel: 250.388.7222  
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SCALE	AS NOTED	DATE	
DRAWN BY	PBX	DESIGN BY	AJB
CHECKED BY	TN	APPROVED BY	MD

ISSUED FOR TENDER	DESIGN NO.
	26/05/25
REV. 1	8 OF 17

DESTROY ALL PRINTS BEARING PREVIOUS NO.

File: P:\33995 - Esquimalt - S.L.T. - Intersections - E08 - Street Lighting at Constance Ave - 1 - Plot Date: 20250525



DETAIL 1-1 WIRING DIAGRAM - METERED SERVICE PANEL  
N.T.S.

- NOTES:**
1. PEDESTRIAN PUSHBUTTON SHALL BE POLARA INX AUDIBLE PUSHBUTTON. AUDIBLE MESSAGE SHALL BE "YELLOW LIGHTS ARE FLASHING".
  2. SERVICE METERS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 1500mm AND A MAXIMUM HEIGHT OF 1800mm TO THE CENTER OF THE VIEWING WINDOW.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - LATEST EDITION AND TOWNSHIP OF ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR APPLICABLE STANDARDS AND DRAWINGS

ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

ELECTRICAL DRAWING: E09  
**33995**

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**STREET LIGHTING & SIGNALS**  
ELEVATIONS - CONSTANCE AVENUE AT ESQUIMALT ROAD



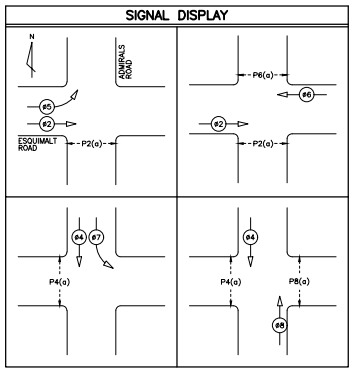
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Victoria BC V8W 2A4  
Tel 250.388.7222  
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SCALE	AS NOTED	DATE	
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CHECKED BY	TN	APPROVED BY	MD

DESIGN NO.	DATE	DWG. NO.
	26/05/25	9
		OF
		17
		REV. 1

INTERSECTION LIGHTING DESIGN CRITERIA		
INTERSECTION NAME	ESQUIMALT ROAD AT ADMIRALS ROAD	
ROAD CLASSIFICATION	MAJOR/MAJOR	
PEDESTRIAN CONFLICT	MEDIUM	
WATTAGE/TYPE/ LUMINAIRE MANUFACTURER/ MODEL NUMBER	133W LED/TYPE II/AMERICAN ELECTRIC/AT82 40BDE10 MVOLT R3 4K	
ILLUMINATION LEVEL (AVG.)	26.0 LUX	36.1 LUX
UNIFORMITY RATIO (AVG/MIN)	3.0:1	1.7:1

NOTE: BASED ON IESNA RP-8-25 (TABLE 12-1)

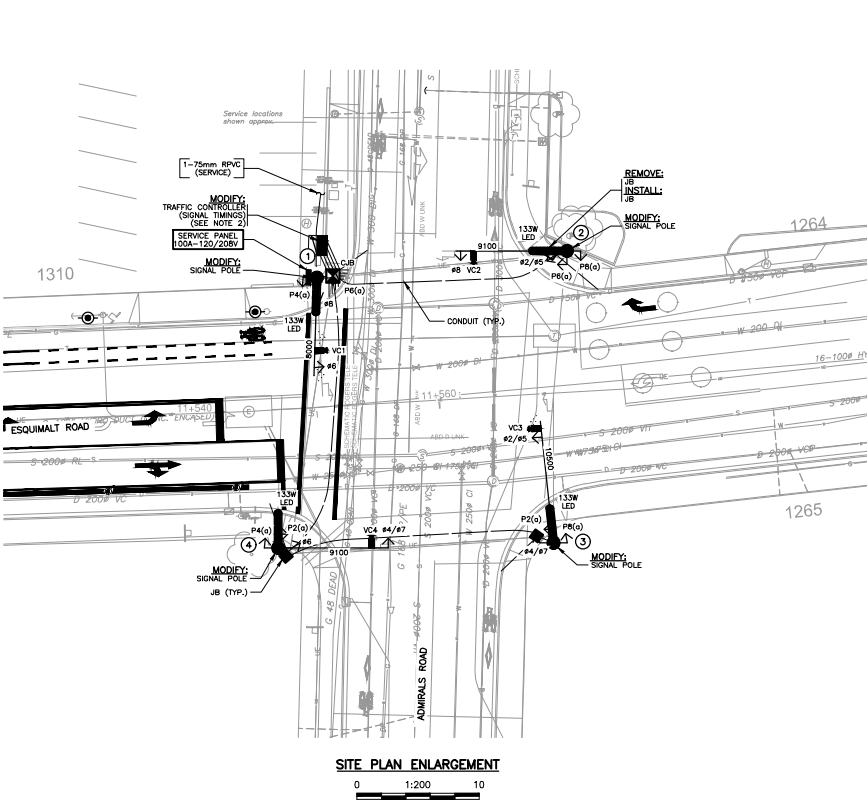


NOTE: (a) DENOTES PEDESTRIAN AUDIBLE SIGNAL

VIDEO DETECTOR CAMERA DETAILS			
CABLE DESCRIPTION	LABEL	VEHICLE MOVEMENT	
VIDEO DETECTOR CAMERA No. 1 ON POLE 1	VC1	WESTBOUND (#6)	
VIDEO DETECTOR CAMERA No. 2 ON POLE 2	VC2	NORTHBOUND (#8)	
VIDEO DETECTOR CAMERA No. 3 ON POLE 2	VC3	EASTBOUND (#2/#5)	
VIDEO DETECTOR CAMERA No. 4 ON POLE 3	VC4	SOUTHBOUND (#4/#7)	

- NOTES:**
- CONTRACTOR SHALL REMOVE ALL REDUNDANT EXISTING WRING IN ALL JUNCTION BOXES AND POLE HANDHOLES AS REQUIRED.
  - CONTRACTOR SHALL ADD LATEST SIGNAL TIMING SHEET AND DESIGN DRAWINGS TO INSIDE OF TRAFFIC CONTROLLER CABINET.

REV NO	REVISIONS	DATE	DRAWN	APPROV
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SITE PLAN ENLARGEMENT  
0 1:200 10

CONDUCTOR COLOUR CODE		
ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
#2	RED	RED
	YELLOW GREEN	YELLOW BLUE
#4	RED	RED
	YELLOW GREEN	BROWN BLUE
#5	RED	ORANGE (WHITE T.T.)
	YELLOW GREEN	BLUE (WHITE T.T.)
#6	RED	RED (YELLOW T.T.)
	YELLOW GREEN	BLUE
#7	YELLOW ARROW GREEN	ORANGE (WHITE T.T.)
	YELLOW ARROW	BLUE (WHITE T.T.)
#8	RED	RED
	YELLOW GREEN	BROWN (ORANGE T.T.)
P2(a)	DON'T WALK WALK	YELLOW BLUE
	PUSH BUTTON	PURPLE (YELLOW T.T.) PURPLE (YELLOW T.T.)
P4(a)	DON'T WALK WALK	BROWN
	PUSH BUTTON	PURPLE (BROWN T.T.) PURPLE (BROWN T.T.)
P6(a)	DON'T WALK WALK	YELLOW (RED T.T.) BLUE
	PUSH BUTTON	PURPLE (RED T.T.) PURPLE (RED T.T.)
P8(a)	DON'T WALK WALK	BROWN (ORANGE T.T.) BLUE
	PUSH BUTTON	PURPLE (ORANGE T.T.) PURPLE (ORANGE T.T.)
CONTROLLER POWER		BLACK
LUMINAIRE CCT. A		RED
LUMINAIRE CCT. B		BLACK
LUMINAIRE CCT. C		BLUE
PHOTOELECTRIC CELL		RED
SWITCH LED		BLACK
POWER		BLACK
NEUTRAL		WHITE
GROUND/BOND		GREEN

NOTE: T.T. DENOTES TAPE TRACER  
(a) DENOTES PEDESTRIAN AUDIBLE SIGNAL

ALL EQUIPMENT IS EXISTING  
UNLESS NOTED OTHERWISE

ISSUED FOR TENDER  
NOT FOR CONSTRUCTION

ELECTRICAL DRAWING: E10  
**33995**



**CHECK BEFORE YOU DIG**  
CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL UNDERGROUND UTILITIES.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - LATEST EDITION AND TOWNSHIP OF ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR APPLICABLE STANDARDS AND DRAWINGS

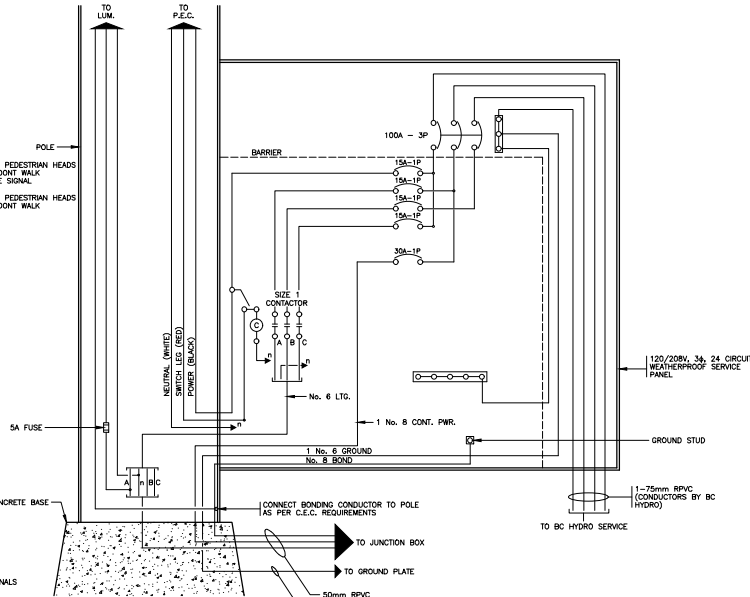
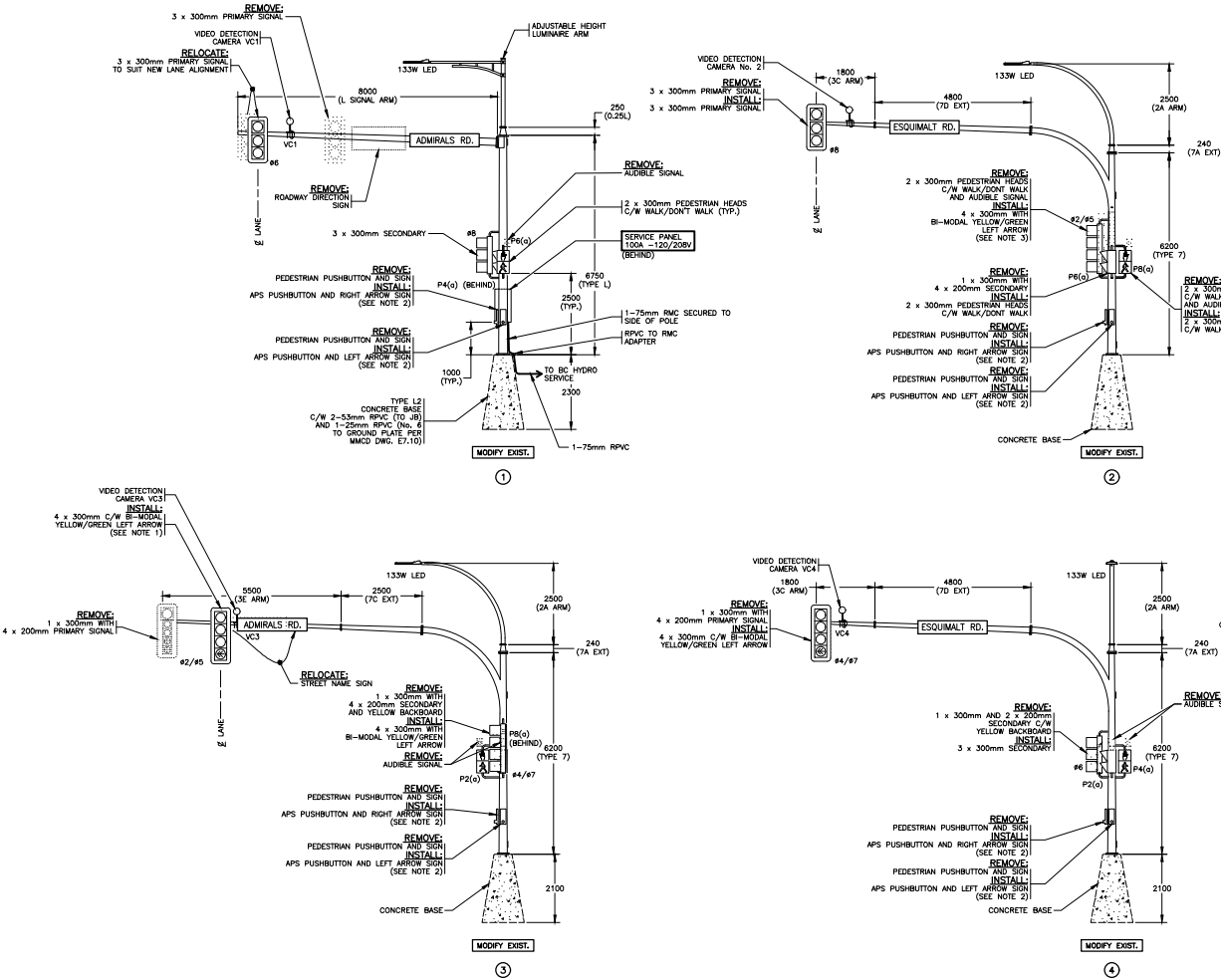
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**STREET LIGHTING & SIGNALS**  
SITE PLAN ENLARGEMENT - ADMIRALS ROAD AT ESQUIMALT ROAD



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**WIRING DIAGRAM - SERVICE PANEL (120/208V, 3φ)**  
N.T.S.

- NOTES:**
- CONTRACTOR SHALL INSTALL SIGNAL HEAD TO NOT CONFLICT WITH VIDEO DETECTION CAMERA.
  - PEDESTRIAN PUSHBUTTON SHALL BE POLAR IN ITS AUDIBLE PUSHBUTTON.
  - SECONDARY SIGNAL HEAD SHALL BE INSTALLED ON ANGULAR FACE OF POLE 45 DEGREES TO BACK OF POLE. CONTRACTOR SHALL CONTACT PBX FOR FIELD REVIEW PRIOR TO INSTALLATION.



SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - LATEST EDITION AND TOWNSHIP OF ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR APPLICABLE STANDARDS AND DRAWINGS

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ELECTRICAL DRAWING: E11  
**33995**

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1	ISSUED FOR TENDER	26/05/25	PBX	MD



**STREET LIGHTING & SIGNALS**  
ELEVATIONS - ADMIRALS ROAD AT ESQUIMALT ROAD



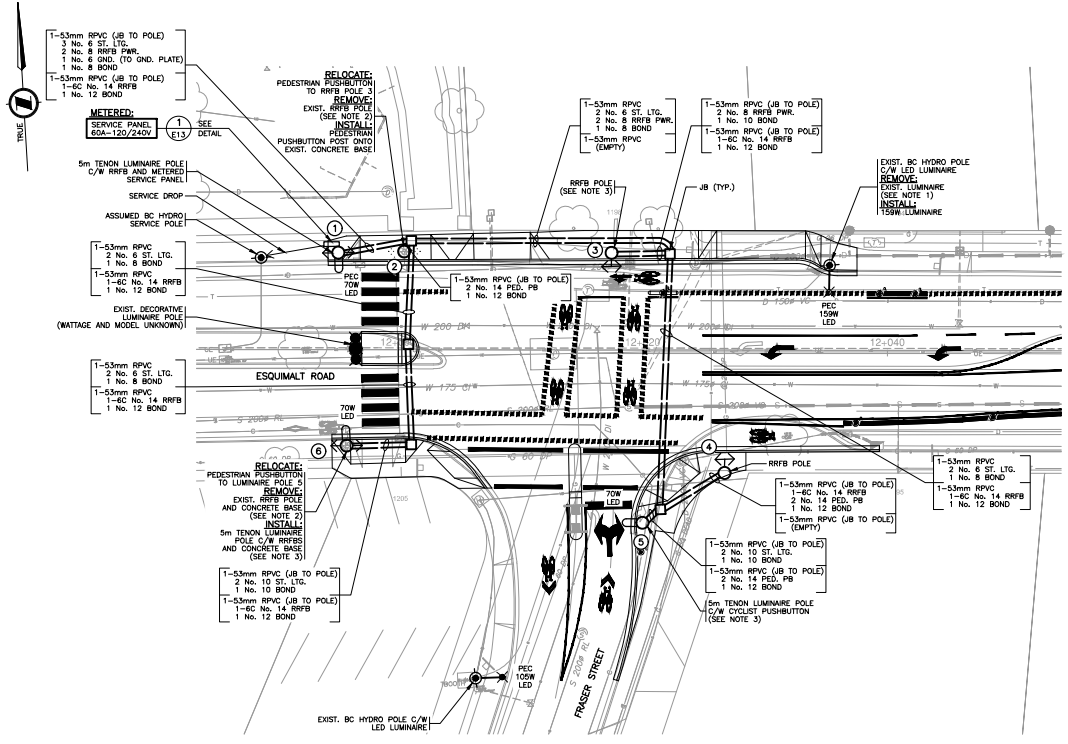
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DESIGN NO.	DATE	26/05/25	DWG. NO.	11
ISSUED FOR TENDER	DATE	26/05/25	OF	17
REV.				1

INTERSECTION LIGHTING DESIGN CRITERIA		
INTERSECTION NAME	ESQUIMALT ROAD AT FRASER STREET	
ROAD CLASSIFICATION	MAJOR/COLLECTOR	
PEDESTRIAN CONFLICT	MEDIUM	
WATTAGE/TYPE/ LUMINAIRE MANUFACTURER/ MODEL NUMBER	70W LED/TYPE I/AMERICAN ELECTRIC/ATRO P203 MVOLT R2 3K 105W LED/TYPE I/AMERICAN ELECTRIC/ATRO 308LED10 MVOLT R5 3K 150W LED/TYPE I/AMERICAN ELECTRIC/ATRO PASS MVOLT R3 3K	
	RECOMMENDED ILLUMINANCE	ACHIEVED ILLUMINANCE
ILLUMINATION LEVEL (AVG.)	22.0 LUX	23.6 LUX
UNIFORMITY RATIO (AVG/MIN)	3.0:1	2.7:1

NOTE: BASED ON IESNA RP-8-25 (TABLE 12-1)



**SITE PLAN ENLARGEMENT**  
 0 1:200 10

- NOTES:**
1. RETURN LED LUMINAIRE TO ESQUIMALT PUBLIC WORKS YARD.
  2. RETURN ALL RRFB AND SOLAR COMPONENTS TO ESQUIMALT PUBLIC WORKS.
  3. POLES WITH CYCLIST PUSHBUTTONS SHALL BE INSTALLED 0.3m FROM FACE OF CURB. WHERE OFFSET CANNOT BE MET, CONTRACTOR SHALL INSTALL PUSHBUTTON EXTENSION. PUSHBUTTON EXTENSION SHALL BE PELOD SE-2169-RPVC 12 INCH.



**CHECK BEFORE YOU DIG**  
 CONTRACTOR SHALL CONFIRM THE LOCATIONS  
 OF ALL UNDERGROUND UTILITIES.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS  
 (MMCD) - LATEST EDITION AND TOWNSHIP OF  
 ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR  
 APPLICABLE STANDARDS AND DRAWINGS

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ELECTRICAL DRAWING: E12  
**33995**

REV NO	REVISIONS	DATE	DRAWN	APPROV
1	ISSUED FOR TENDER	26/05/25	PBX	MD



**STREET LIGHTING & SIGNALS**  
 SITE PLAN ENLARGEMENT - FRASER STREET AT ESQUIMALT ROAD

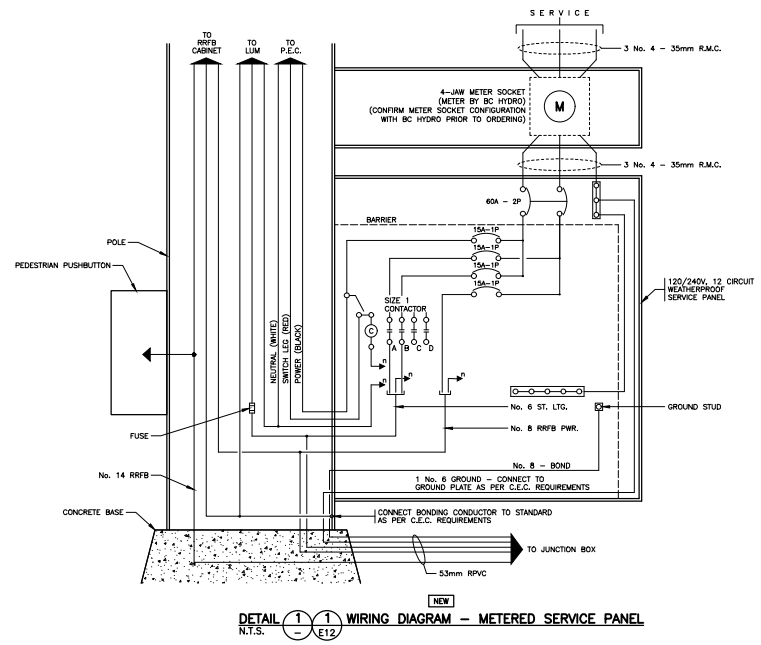
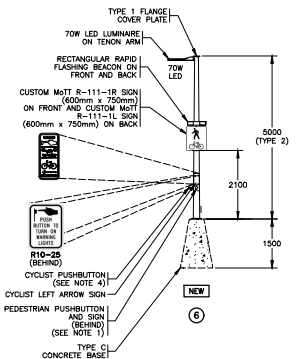
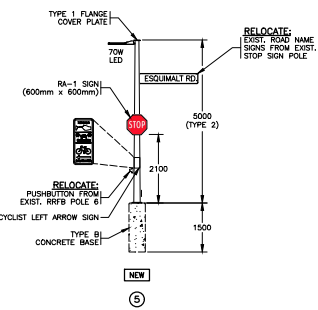
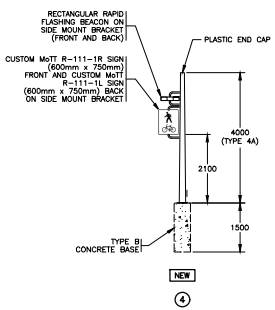
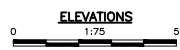
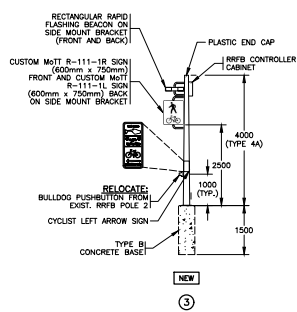
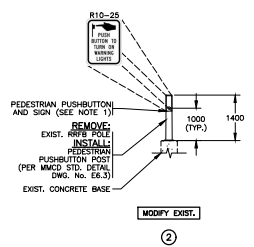
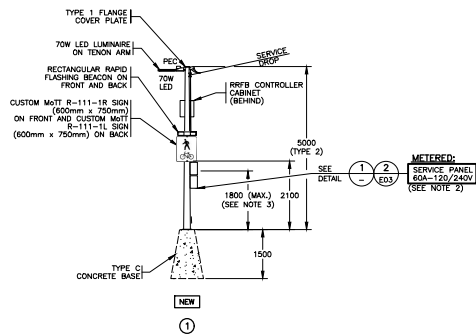


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DWG. NO.	12
OF	17
REV.	1



- NOTES:**
1. PEDESTRIAN PUSHBUTTON SHALL BE POLARA INX AUDIBLE PUSHBUTTON. AUDIBLE MESSAGE SHALL BE "YELLOW LIGHTS ARE FLASHING".
  2. SERVICE PANEL SHALL BE INSTALLED WITH CUSTOM MOUNTING BRACKET TO OFFSET SERVICE PANEL SW TO PREVENT CONTACT WITH PUSHBUTTON. CONTRACTOR SHALL SUBMIT SERVICE PANEL SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING. REFER TO DETAIL 2 ON SHEET E03.
  3. SERVICE METERS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 1500MM AND A MAXIMUM HEIGHT OF 1800MM TO THE CENTER OF THE VIEWING WINDOW.
  4. CYCLIST PUSHBUTTON SHALL BE POLARA BULLDOZER PUSHBUTTON.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) - LATEST EDITION AND TOWNSHIP OF ESQUIMALT SUPPLEMENTAL SPECIFICATIONS FOR APPLICABLE STANDARDS AND DRAWINGS

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ELECTRICAL DRAWING: E13  
**33995**

REV NO	REVISIONS	DATE	DRAWN	APPROV
1	ISSUED FOR TENDER	26/05/25	PBX	MD



**STREET LIGHTING & SIGNALS**  
 ELEVATIONS - FRASER STREET AT ESQUIMALT ROAD



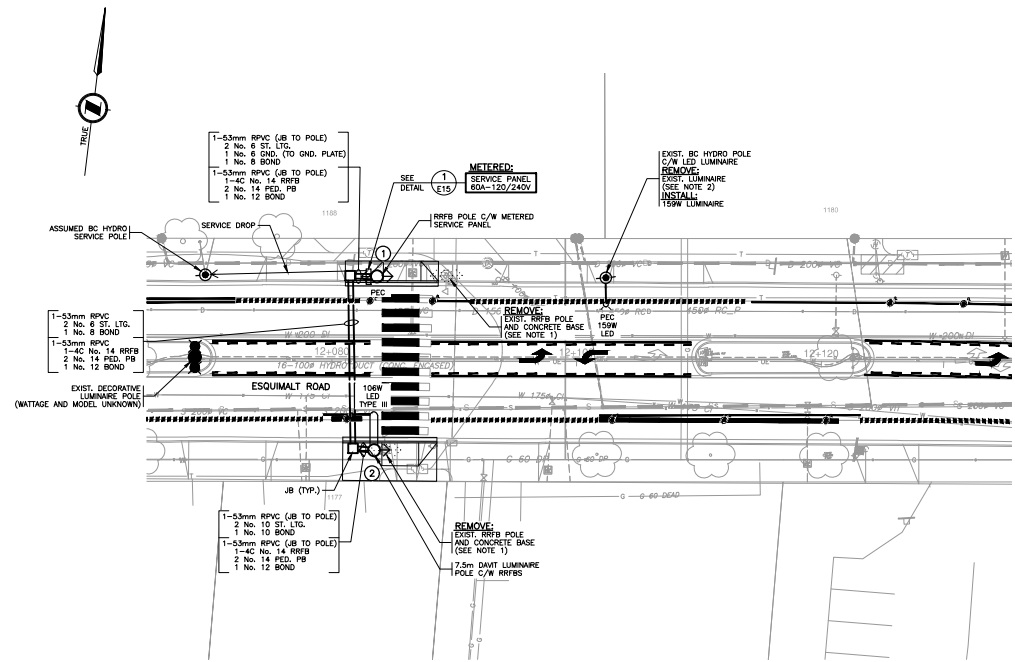
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DESIGN NO.	DATE	DWG. NO.
	26/05/25	13
		OF 17
		REV. 1

PEDESTRIAN CROSSWALK LIGHTING DESIGN CRITERIA		
ROADWAY LOCATION	PEDESTRIAN CROSSWALK AT 1188 ESQUIMALT ROAD	
PEDESTRIAN CONFLICT	MEDIUM	
WATTAGE /TYPE/ LUMINAIRE MANUFACTURER/ MODEL NUMBER	100W LED /TYPE II /AMERICAN ELECTRIC/ATSD P3033 IMOLT R3 3K 150W LED /TYPE II /AMERICAN ELECTRIC/ATSD P433 IMOLT R2 3K	
VERTICAL CROSSWALK ILLUMINANCE (AVG.)	RECOMMENDED ILLUMINANCE	ACHIEVED ILLUMINANCE
	20.0 LUX	20.3 LUX

**NOTE:** BASED ON IESNA RP-8-25 SECTION 12.6.4



ALL EQUIPMENT IS PROPOSED  
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NOT FOR CONSTRUCTION

- NOTES:**
1. RETURN RRFB AND SOLAR COMPONENTS TO ESQUIMALT PUBLIC WORKS YARD.
  2. RETURN LED LUMINAIRE TO ESQUIMALT PUBLIC WORKS YARD.



**CHECK BEFORE YOU DIG**  
CONTRACTOR SHALL CONFIRM THE LOCATIONS  
OF ALL UNDERGROUND UTILITIES.

SEE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS  
(MMCD) - LATEST EDITION AND TOWNSHIP OF  
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APPLICABLE STANDARDS AND DRAWINGS

ELECTRICAL DRAWING: E14  
**33995**

REV NO	REVISIONS	DATE	DRAWN	APPROVED
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**STREET LIGHTING & SIGNALS**  
SITE PLAN ENLARGEMENT - 1188 ESQUIMALT ROAD



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				17
				REV. 1

FILE: P:\2025\Esquimalt\_RL\_17\Drawings\1188 Esquimalt Road\1188 Esquimalt Road - ELEC - 1.dwg | PLOT DATE: 2025/05/25





