



Addendum No. 1

**City of Coquitlam
Tender 74770
Pipeline Road Improvements
(Consists of 43 Pages)
Issue Date: February 7, 2025**

Tenderers shall note the following changes:

Revisions

1. Refer to: INVITATION TO TENDER, INSTRUCTIONS TO TENDERERS AND FORM OF TENDER

Tender Closing Date Extension to February 21, 2025

"Tenders must be received on or before:

Tender Closing Time: 2:00 p.m. local time

Tender Closing Date: February 21, 2025"

2. Refer to: INSTRUCTIONS TO TENDERERS

REMOVE: The deadline for inquiries is **2:00 PM** local time, **Tuesday, February 11, 2025.**

REPLACE WITH: The deadline for inquiries is **2:00 PM** local time, **Tuesday, February 18, 2025.**

3. Refer to: FORM OF TENDER

REMOVE: Appendix 1

REPLACE with: ***Revised*** - Appendix 1 - ***Revision No. 1***

4. Refer to: AGREEMENT, Schedule 2

DELETE: DMD & ASSOCIATES ELECTRICAL CONSULTANTS LTD. DRAWINGS

REPLACE WITH:

TITLE	SHEET NO.	REVISION NO.	DATE
DMD & ASSOCIATES ELECTRICAL CONSULTANTS LTD. (ELECTRICAL)			
STREET LIGHTING – PIPELINE RD – GUILDFORD WAY TO DAVID AVE	1 OF 8	1	5-02-2025
STREET LIGHTING – PIPELINE RD – GUILDFORD WAY TO DAVID AVE	2 OF 8	1	5-02-2025
STREET LIGHTING – PIPELINE RD – GUILDFORD WAY TO DAVID AVE	3 OF 8	1	5-02-2025
STREET LIGHTING – PIPELINE RD – GUILDFORD WAY TO DAVID AVE	4 OF 8	1	5-02-2025
TRAFFIC SIGNAL MODIFICATIONS - PIPELINE RD – TREVOR WINGROVE WAY	5 OF 8	1	5-02-2025
TRAFFIC SIGNAL MODIFICATIONS - PIPELINE RD – TREVOR WINGROVE WAY	6 OF 8	1	5-02-2025
TRAFFIC SIGNAL MODIFICATIONS - PIPELINE RD – GABRIOLA DR	7 OF 8	1	5-02-2025
TRAFFIC SIGNAL MODIFICATIONS - PIPELINE RD – GABRIOLA DR	8 OF 8	1	5-02-2025

5. Refer to: AGREEMENT, Schedule 2

ADD: PROXIMAL DRAWINGS - METROVAN CROSSING

TITLE	SHEET NO.	REVISION NO.	DATE
PROXIMAL DRAWINGS - METROVAN CROSSING			
PIPELINE ROAD – METROVAN CROSSING – DRAINAGE UTIL 1	1 OF 4	B	2025/02/05

TITLE	SHEET NO.	REVISION NO.	DATE
PIPELINE ROAD – METROVAN CROSSING – DRAINAGE UTIL 2	2 OF 8	B	2025/02/05
PIPELINE ROAD – METROVAN CROSSING – WATER SERVICES	3 OF 8	B	2025/02/05
PIPELINE ROAD – METROVAN CROSSING – METROVAN PROXIMITY	4 OF 8	B	2025/02/05

6. Refer to: AGREEMENT, Schedule 2

DELETE THE FOLLOWING ISL DRAWINGS:

TITLE	SHEET NO.	REVISION NO.	DATE
COVER – PIPELINE ROAD IMPROVEMENTS PHASE 1			2025/01/22
ROAD WORKS – STA 10+060 TO STA 10+340 – PIPELINE ROAD	07	B	2025/01/21
ROAD WORKS – STA 10+340 TO STA 10+630 – PIPELINE ROAD	08	B	2025/01/21
ROAD WORKS – STA 10+630 TO STA 10+900 – PIPELINE ROAD	09	B	2025/01/21
ROAD WORKS – DUNKIRK AVE INTERSECTION – PIPELINE ROAD	10	B	2025/01/21
ROAD WORKS – REDONDA DRIVE INTERSECTION – PIPELINE ROAD	11	B	2025/01/21
ROAD WORKS – GABRIOLA DRIVE INTERSECTION – PIPELINE ROAD	12	B	2025/01/21
STA 10+180 TO STA 10+400 – PAVEMENT MARKINGS	13	B	2025/01/21
STA 10+400 TO STA 10+780 – PAVEMENT MARKINGS	14	B	2025/01/21
STA 10+780 TO STA 11+160 – PAVEMENT MARKINGS	15	B	2025/01/21
STA 10+180 TO STA 10+400 – SIGNAGE	16	B	2025/01/21
STA 10+180 TO STA 10+400 – SIGNAGE	17	B	2025/01/21
STA 10+180 TO STA 10+400 – SIGNAGE	18	B	2025/01/21
STORM SEWER – STA 10+210 TO STA 10+590 – PIPELINE ROAD	19	B	2025/01/21
STORM SEWER – STA 10+590 TO STA 10+910 – PIPELINE ROAD	20	B	2025/01/21
WATER SERVICES – PIPELINE ROAD	21	B	2025/01/21
SOILS PLAN – PIPELINE ROAD	22	B	2024/12/12
SHRUB PLANTING – PIPELINE ROAD	24	B	2024/12/12
SHRUB PLANTING 2 – PIPELINE ROAD	25	B	2024/12/12
LANDSCAPE DETAILS 1 – PIPELINE ROAD	26	B	2024/12/12
IRRIGATION – STA 10+220 TO STA 10+390 – PIPELINE ROAD	33	A	2025/01/21
IRRIGATION – STA 10+390 TO STA 10+540 – PIPELINE ROAD	34	A	2025/01/21
IRRIGATION – STA 10+540 TO STA 10+700 – PIPELINE ROAD	35	A	2025/01/21
IRRIGATION – STA 10+700 TO STA 10+850 – PIPELINE ROAD	36	A	2025/01/21
IRRIGATION – STA 10+850 TO STA 10+11+020 – PIPELINE ROAD	37	A	2025/01/21

REPLACE WITH:

TITLE	SHEET NO.	REVISION NO.	DATE
COVER – PIPELINE ROAD IMPROVEMENTS PHASE 1			2025/02/05
ROAD WORKS – STA 10+060 TO STA 10+340 – PIPELINE ROAD	07	C	2025/02/05
ROAD WORKS – STA 10+340 TO STA 10+630 – PIPELINE ROAD	08	C	2025/02/05
ROAD WORKS – STA 10+630 TO STA 10+900 – PIPELINE ROAD	09	C	2025/02/05
ROAD WORKS – DUNKIRK AVE INTERSECTION – PIPELINE ROAD	10	C	2025/02/05
ROAD WORKS – REDONDA DRIVE INTERSECTION – PIPELINE ROAD	11	C	2025/02/05
ROAD WORKS – GABRIOLA DRIVE INTERSECTION – PIPELINE ROAD	12	C	2025/02/05
STA 10+180 TO STA 10+400 – PAVEMENT MARKINGS	13	C	2025/02/05
STA 10+400 TO STA 10+780 – PAVEMENT MARKINGS	14	C	2025/02/05
STA 10+780 TO STA 11+160 – PAVEMENT MARKINGS	15	C	2025/02/05
STA 10+180 TO STA 10+400 – SIGNAGE	16	C	2025/02/05
STA 10+180 TO STA 10+400 – SIGNAGE	17	C	2025/02/05
STA 10+180 TO STA 10+400 – SIGNAGE	18	C	2025/02/05
STORM SEWER – STA 10+210 TO STA 10+590 – PIPELINE ROAD	19	C	2025/02/05
STORM SEWER – STA 10+590 TO STA 10+910 – PIPELINE ROAD	20	C	2025/02/05
WATER SERVICES – PIPELINE ROAD	21	C	2025/02/05

TITLE	SHEET NO.	REVISION NO.	DATE
SOILS PLAN – PIPELINE ROAD	22	C	2025/02/05
SHRUB PLANTING – PIPELINE ROAD	24	C	2025/02/05
LANDSCAPE DETAILS 1 – PIPELINE ROAD	26	C	2025/02/05
IRRIGATION – STA 10+220 TO STA 10+390 – PIPELINE ROAD	33	B	2025/02/06
IRRIGATION – STA 10+390 TO STA 10+540 – PIPELINE ROAD	34	B	2025/02/06
IRRIGATION – STA 10+540 TO STA 10+700 – PIPELINE ROAD	35	B	2025/02/06
IRRIGATION – STA 10+700 TO STA 10+850 – PIPELINE ROAD	36	B	2025/02/06
IRRIGATION – STA 10+850 TO STA 10+11+020 – PIPELINE ROAD	37	B	2025/02/06

Contractor Questions/Clarifications

Q1) Please confirm if granular base is included in Pay Items 4.03 & 4.05?

A1) No. It will be paid under Section 32 11 23S, Granular Base.

Q2) Please specify up to what depth full-depth milling will be paid.

A2) Up to maximum of 150mm. Refer to *Revised* - Appendix 1 - Revision No. 1.

Q3) Do you have the link for the geotech report? How long will this link be available?

A3) Refer to link: [Geotech Report](#). This link will be active for 30 days.

Q4) The tender notes that "all underground Proximal Work within 2m of existing COQ2 & COQ3 MV watermains must be completed prior to April 15". Is there a reason for this?

A4) This is an MV requirement for working in close proximity to their watermain. Refer to Proximal Drawings in Agreement, Schedule 2.

Q5) When are the Third Party Utilities (i.e. BC Hydro, Telus, Shaw) to be relocated?

A5) BC Hydro is expected to start before March 2025. No dates yet for Telus/Shaw. Refer to Section 00 72 43S, Clause 1.13.

Q6) Will the Substantial Completion be adjusted if delay is caused by the Third Party Utilities (i.e. BC Hydro, Telus or Shaw)?

A6) Yes. Substantial Completion Date will be adjusted accordingly (pro-rata).

Q7) Please confirm the thickness for base paving.

A7) 65mm LC#1.

Q8) How do we get paid for the extruded asphalt curb?

A8) Payment for the extruded curb will be incidental to Pay Item 11.03, Section 32 12 16S, Clause 1.5.3.

Q9) How will the median concrete band behind the curb be paid?

A9) Median concrete band behind the curb will be paid under Pay Item 4.03, Section 03 30 20S, Clause 1.4.5.

Q10) Please provide updated roadworks drawings indicating where the 150mm concrete curb/banding is required.

A10) Refer to revised sheet 08 of 38, Rev. No. C.

Q11) Please confirm if the 150mm concrete curb/banding will be required wherever asphalt pathway paving meets landscaping (for example, on both sides of the asphalt MUP/pedestrian walkway/bike path).

A11) This curb is only required around one planting bed on this project (behind the bus stop at the southwest corner of Trevor Wingrove).

Q12) This area is still an active construction zone for the Metro Vancouver watermain project. When will Michels demobilize from the site, and how will this impact the September 26th, 2025 substantial completion date?

A12) Michels is expected to be north of Gabriola Drive beginning April 2025. Refer to Instruction to Tenderers, Clause 4.01. This should not impact the Substantial Completion Date.

Q13) The irrigation drawing scale says "as shown", but we are unable to find this information. Please provide.

A13) Scale is 1:250. Refer to Agreement, Schedule 2 for the revised drawings.

Q14) It seems the full-depth milling quantity of 7,985m² is also included in the asphalt removal quantity of 9,572m². Please revise the SOQ.

A14) Refer to *Revised* - Appendix 1 - *Revision No. 1*.

Q15) Are CB22 & CB23 (Trevor Wingrove) included in this contract?

A15) No. These CBs will be done by others. Do not include in your estimate.

Q16) With respect to the offsite disposal for the excavation works, are we to assume that all the material is "clean" or less than AL to RL classification?

A16) Assume typical disposal. Above & beyond typical disposal will be dealt with in accordance with the terms of the contract.

Q17) Are the electronic sign/counters on its ultimate locations?

A17) Final location will be determined by the Contract Administrator during construction.

Q18) Are the supply and planting of shrubs, and placement of bark mulch included in this contract?

A18) No. All planting of shrubs and placement of bark mulch are to be done by others. Do not include these in your estimate.

Q19) Are root barriers required per side of tree?

A19) No.

End of Addendum No. 1

Tenderers shall take into account the content of this Addendum in the preparation and submission of the Tender which will form part of the contract and should be acknowledged on the Tender form where indicated.

Upon submitting a Tender, Tenderers will be deemed to have received all addenda and considered the information for inclusion in the Tender submitted.

Issued by:

M. Pain
Manager Procurement
Email: bid@coquitlam.ca

Revised APPENDIX 1 - Revision No. 1
FORM OF TENDER

Contract 74770
Pipeline Road Improvements

SCHEDULE OF QUANTITIES AND PRICES

(see paragraph 5.3.1 of the Instruction to Tenderers)

(All Tender and Contract Prices shall NOT include GST. GST will apply upon payment)

(Should there be any discrepancy in the information provided, the City's original file copy shall prevail)

ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
1.00	01 55 00	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING				
1.01	1.5.1	Traffic Control and Management				Incidental to Contract
2.00	01 57 01S	ENVIRONMENTAL PROTECTION				
2.01	(1.6.1)	ESC supply & installation, maintenance and removal				Incidental to Contract
3.00	01 58 01S	PROJECT IDENTIFICATION				
3.01	(1.3.1)	Construction Zone Information Signs	ea.	4		
4.00	03 30 20S	CONCRETE WALKS, CURBS AND GUTTERS				
4.01	(1.4.3)	Concrete Curb & Gutter - Wide Base – MMCD C5	l.m	1,218		
4.02	(1.4.3)	Median Narrow Curb and Gutter	l.m	642		
4.03	(1.4.5)	Concrete Sidewalk & Walkway connectors & Wheelchair Letdown - 100mm thick – Broom Finished; and as shown and described in the Contract Documents	sq.m	1,925		
4.04	(1.4.5)	Concrete Driveway Letdown, Sidewalk Crossing, and Driveways - COQ-C7 & COQ-C7B - 190mm thick and as shown and described in the Contract Documents	sq.m	177		
4.05	(1.4.5)	Raised Concrete Islands in Pedestrian/Cycling areas	sq.m	18		
4.06	(1.4.10)	Tactile Attention Indicators - 0.6m Wide - Truncated Dome Pattern, Yellow color - Cast-in-place (removable)	l.m	42		
4.07	(1.4.10)	Tactile Directional Indicators - 1.2m Wide - Elongated Bars with Flat Top Pattern, Yellow color - Cast-in-place (removable)	l.m	2		
5.00	26 56 01S	ROADWAY LIGHTING				
5.01	1.9.2	Supply & installation of Roadway and Pedestrian Lighting and Communication Ducting (ALL) Works including any removal, adjustments and disposal needed to complete the work and as shown on the Contract Drawing	l.s.	1		
6.00	31 11 01S	CLEARING AND GRUBBING				
6.01	(1.4.1)	Clearing & grubbing; Remove/Trim Hedges, Shrubs, Trees<300mm dia, etc.	l.s.	1		
7.00	31 24 13S	ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION				
7.01	(1.8.4)	Removal and offsite disposal of Existing Concrete (all Depths), including pathways, medians, letdowns or sidewalks.	sq.m	952		
7.02	(1.8.4)	Removal and offsite disposal of Existing Asphalt (all Depths), including asphalt curb, pathways, medians, letdowns or sidewalks.	sq.m	1,587		
7.03	(1.8.4)	Removal and Disposal of Existing Concrete Curb and Gutter	l.m	741		
7.04	(1.8.5)	Common Excavation including Off Site Disposal (includes topsoil stripping) (Provisional)	cu.m	5,710		
7.05	1.8.7	Imported Embankment Fill, 75mm SGSB	tonne	1,440		
7.06	(1.8.10)	Overexcavation, Offsite Disposal, Backfilling (Provisional)	cu.m	860		
8.00	32 01 16.7S	COLD MILLING				
8.01	(1.5.1)	Full Depth Milling (up to 150mm)	sq.m	7,985		
9.00	32 11 16.1S	GRANULAR SUBBASE				
9.01	(1.4.3)	75mm Crushed Minus Granular Sub Base - variable thickness	tonne	650		
9.02	(1.4.3)	75mm Crushed Minus Granular Sub Base - variable thickness (Provisional)	tonne	637		
10.00	32 11 23S	GRANULAR BASE				
10.01	(1.4.3)	25mm Minus Granular Base, variable thickness, for roadway and as shown in Contract Drawings (Provisional)	tonne	2,970		
10.02	(1.4.3)	19mm Minus Granular Base, variable thickness (Provisional)	tonne	1,280		
11.00	32 12 16S	HOT-MIX ASPHALT CONCRETE PAVING				
11.01	(1.5.1 / 1.5.9)	Asphaltic Concrete Paving - 19mm MOTI Class 1 medium mix with 80-100 Group A Asphalt Binder, 50mm, 1 lift	tonne	1,560		
11.02	(1.5.1 / 1.5.9)	Asphaltic Concrete Paving - Lower Course #1, 65mm, 1 lift	tonne	2,030		
11.03	(1.5.3 / 1.5.9)	Asphaltic Concrete Paving - Upper Course #2, 50mm, 1 lift	tonne	410		
11.04	(1.5.3 / 1.5.9)	Asphaltic Concrete Paving - Upper Course #2, 75mm, 1 lift	tonne	60		

ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
12.00	32 17 235	PAINTED PAVEMENT MARKINGS				
12.01	(1.5.3)	Supply & Installation Thermoplastic Pavement Markings	l.s.	1		
12.02	(1.5.3)	Supply & Installation MMA Solid Green Conflict Zone Painting	l.s.	1		
12.03	(1.5.4)	Supply & Install of Traffic Signage on new base and post - City to supply all new sign tabs	ea.	8		
12.04	(1.5.4)	Supply & Install of Traffic Signage on streetlight pole using clamps - City to supply all new sign tabs	ea.	44		
12.05	(1.5.4)	Supply and Install of Traffic Signage on existing base and post	ea.	8		
12.06	(1.5.4)	Remove, protect and relocate existing sign base and post	ea.	8		
12.07	(1.5.4)	Remove, protect and relocate existing signage	ea.	5		
12.08	(1.5.5)	Removal and offsite disposal of existing signage and assembly	l.s.	1		
13.00	32 84 235	IRRIGATION				
13.01	(1.11)	Design and Build Irrigation System as per Coquitlam Irrigation Standards for Planting Areas c/w double check valve assembly, all labor, equipment, materials needed to complete the work and as shown in Contract Drawings & Appendix B	l.s.	1		
14.00	32 91 12.235	STRUCTURAL SOIL				
14.01	(1.8)	Structural Soil installed beneath cycle track and pedestrian path	cu.m	2,030		
15.00	32 91 215	TOP SOIL AND FINISH GRADING				
15.01	(1.4.1)	Imported Topsoil - 150mm Thick for Sod	cu.m	490		
15.02	(1.4.1)	BCLS growing medium 2L - Boulevard Tree Planting Trench - includes excavation, disposal of excavated material, backfill, growing medium and as shown in Contract Drawings and described in Contract Documents	cu.m	3,240		
16.00	32 92 235	SODDING				
16.01	(1.8.1)	Sodding	sq.m	3,230		
17.00	32 93 015	PLANTING OF TREES, SHRUBS, AND GROUND COVERS				
17.01	(1.9.1)	Boulevard (Powerlines) trees and as described in the contract drawings	l.s.	1		
17.02	(1.9.1)	Park Side trees and as described in the contract drawings	l.s.	1		
17.03	(1.9.1)	Pathway Median (Watermain) trees and as described in the contract drawings	l.s.	1		
17.04	(1.9.1)	Pipeline Centre Median trees and as described in the contract drawings	l.s.	1		
18.00	33 11 015	WATERWORKS				
18.01	(1.8.13)	150mm Service Connections - COQ-WM-5 and COQ-W2f and as shown in Contract Drawings & Appendix B	ea.	1		
18.02	(1.8.13)	100mm Service Connections - COQ-W2f and as shown in Contract Drawings & Appendix B	ea.	1		
18.03	(1.8.14)	Irrigation 50mm water service connection and meter - COQ-W2e, WM-3 and as shown in Contract Drawings & Appendix B	ea.	1		
18.04	(1.8.15)	Fire Hydrant Terminal City C71P c/w Storz	ea.	1		
19.00	33 40 015	STORM SEWERS				
19.01	(1.6.2)	250mm Storm Pipe PVC SDR35 c/w import backfill	l.m	39		
19.02	(1.6.2)	300mm Storm Pipe PVC SDR35 c/w import backfill	l.m	98		
19.03	(1.6.2)	375mm Storm Pipe PVC SDR35 c/w import backfill	l.m	126		
19.04	(1.6.2)	450mm Storm Pipe PVC SDR35 c/w import backfill	l.m	163		
19.05	(1.6.2)	450mm Storm Pipe PVC Bionax c/w import backfill	l.m	72		
19.06	(1.6.5)	Catch Basin Lead - 150mm SDR28 PVC c/w import backfill (Including pvc wyes)	l.m	216		
20.00	33 44 015	MANHOLES AND CATCHBASINS				
20.01	(1.5.1)	Supply & Installation of 1050mm gasketed manhole including frames, lid, base, riser, barrel and all related works as shown on the contract drawing and as described in contract documents	ea.	4		
20.02	(1.5.1)	Supply & Installation of 1200mm gasketed manhole including frames, lid, base, riser, barrel and all related works as shown on the contract drawing and as described in contract documents	ea.	5		
20.03	(1.5.2)	600mm Side Inlet Median Catch Basin	ea.	3		
20.04	(1.5.2)	900mm Side Inlet Catch Basin Assembly per COQ-S11A	ea.	9		
20.05	(1.5.2)	600mm Double Top Inlet Catch Basin c/w Shared 600mm Offset Sump per COQ-S11B	ea.	3		
20.06	(1.5.2)	600mm Single Top Inlet Catch Basin c/w 600mm Offset Sump per COQ-S11B	ea.	15		
20.07	(1.5.3)	Manhole Frame and Lid Replacement & Adjustments	ea.	18		
20.08	(1.5.3)	Junction Box Adjustment Only	ea.	16		
20.09	(1.5.3)	Valve Box Cover Adjustments Only	ea.	17		
20.10	1.5.4	Removal, Capping, and Disposal of Catch Basins	ea.	11		

ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
21.00	34 41 13	TRAFFIC SIGNALS				
21.01	1.9	Supply & Install Eco-Counter Urban Multi - complete	l.s.	1		
21.02	1.9	Trevor Wingrove Intersection - Traffic Signal Modification (All Works) and as described in contract drawing	l.s.	1		
21.03	1.9	Gabriola Intersection - Traffic Signal Modification (All Works) and as described in contract drawing	l.s.	1		
21.04	1.9	David Ave Intersection - Traffic Signal Modification (All Works) and as described in contract drawing	l.s.	1		

Total Tendered Price (exclude GST): \$ _____

(Transfer the amount to Form of Tender Summary Page 1)

Name of **Contractor:** _____

STREET LIGHTING NOTES

- UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COQUITLAM CURRENT SUBDIVISION CONTROL BYLAWS, CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAILED DRAWINGS, CITY OF COQUITLAM APPROVED MATERIALS AND PRODUCTS LISTINGS, AND 2019 MMCD PLATINUM EDITION.
- THE CONTRACTOR SHALL REFER TO COQUITLAM RECORD DRAWINGS, FOR ALL CITY UTILITIES AND INFRASTRUCTURE, SERVICE LOCATIONS AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE CONFIRMED ON SITE BY THE DESIGN ENGINEERS, CIVIL OR ELECTRICAL CONTRACTORS, AND WITH CITY OF COQUITLAM INSPECTORS.
- BCOneCall CALL BEFORE YOU DIG. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (FORTIS, BC HYDRO, SHAW AND TELUS) ARE SHOWN IN AN APPROXIMATION ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING CITY OF COQUITLAM INFRASTRUCTURE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
- PRIOR TO STREET LIGHT BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THAT ALL STREET LIGHT POLES, FIXTURES AND RELATED EQUIPMENT MEETS OR EXCEED BC HYDRO CLEARANCE STANDARDS FOR ABOVE AND BELOW GROUND INFRASTRUCTURES, TELUS OR SHAW, AND WORKSAFEBC CLEARANCE REQUIREMENTS FOR ALL OVERHEAD PRIMARY AND SECONDARY (120/240V) CONDUCTORS. THE CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CITY OF COQUITLAM, AND TO THE DESIGN ENGINEERS.
- THE CONTRACTOR SHALL NOTIFY PROVINCIAL AND CITY OF COQUITLAM INSPECTORS 24 HOURS PRIOR TO COMMENCEMENT OF UNDERGROUND ELECTRICAL WORK.
- THE CIVIL/ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS FROM THE CITY OF COQUITLAM, AND FROM TECHNICAL SAFETY BC (WAS BC SAFETY AUTHORITY).
- THE TECHNICAL SAFETY BC (WAS BC SAFETY AUTHORITY) SHALL BE MADE AWARE OF THE (POSSIBLE) USE OF AN IRRIGATION SYSTEM WITHIN THE STREET LIGHT POLES. IRRIGATION POWER SHALL BE POWERED FROM METERED CIRCUITS.
- ALL STREET LIGHT WIRING SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH CSA, CANADIAN ELECTRICAL CODE, PROVINCE OF BRITISH COLUMBIA AMENDMENTS AND ALL BULLETINS ISSUED BY TECHNICAL SAFETY BC (WAS BC SAFETY AUTHORITY), INCLUDING THE PROVINCIAL ELECTRICAL INSPECTION AUTHORITY.
- HYDRO SERVICE DIP CONNECTIONS SHALL BE PER BC HYDRO STANDARDS OR PER MMCD 2019. NOTE: HYDRO DIP SERVICES MUST USE A STEEL GUARD OVER RPVC CONDUITS. THE USE OF RIGID CONDUIT AND/OR RPVC TO RIGID CONDUIT FITTINGS IS NO LONGER PERMITTED.
- MINIMUM DEPTH FOR UNDERGROUND CONDUIT DUCTING SHALL BE 600-MM (MINIMUM) BELOW BOULEVARD AND SIDEWALKS, AND 900-MM (MINIMUM) BENEATH ASPHALT. PER CITY OF COQUITLAM SUBDIVISION AND DEVELOPMENT SERVICES BYLAWS.
- ALL CONDUITS SHALL BE RIGID P.V.C MANUFACTURED IN ACCORDANCE WITH C.S.A. C22.2 No. 211.2 (NOT DBI).
- CONCRETE STREET LIGHT / SERVICE BASES WITH MORE THAN 2 CONDUITS SHALL BE NOTED ON THE PLANS. AS AN EXAMPLE, "THIS BASE HAS (X) CONDUITS"
- UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE TYPE RW90 (MINIMUM), STRANDED COPPER, INSULATED, AND COLOUR CODED PER DRAWINGS.
- NEW STREET LIGHTING DESIGNS SHALL ONLY BE 120/240V.
- UNLESS OTHERWISE INDICATED: ALL POLES, ARMS, SERVICE BASES, HAND ACCESS COVERS, SECURITY COVERS, AND RE-ENFORCED STEEL BACKING BARS, SHALL BE GALVANIZED, PRIMED AND POWER-COATED. CONSULT THE PLANS FOR SPECIFIC COLOURS.
- ALL STREET LIGHT HAND-HOLE COVERS SHALL BE PROVIDED WITH SECURITY COVERS REINFORCED U-SHAPED REINFORCED BACKER BARS AND SECURITY BOLTS. TWO MAJOR POLE MANUFACTURERS OFFER ENHANCED SECURITY DEVICES:
 - NOVA POLE OFFERS A REINFORCED COVER, REVERSE THREADED SECURITY BOLT, AND ROBUST BACKER BAR. CONTRACTOR SHALL PROVIDE ONE (1) TOOL BIT TO COQUITLAM TRAFFIC OPERATIONS
 - THE ABOVE ITEM DOES NOT APPLY TO SPECIALTY POLES, SUCH AS PHILLIPS, LUMEC, QUATRO, ETC. CONSULT THOSE COMPANIES FOR THEIR SECURITY MEASURES.
 - THE BULLDOG PRODUCTS AND WIRE SENTRY PRODUCTS ARE NO LONGER APPROVED FOR USE IN COQUITLAM.
- ALL THREADED BOLTS, NOT USED FOR ELECTRICAL CONNECTIONS, SHALL HAVE ANTI-SEIZE COMPOUND APPLIED. THIS ALSO APPLIES TO SECURITY BOLTS NOTED ABOVE
- PHOTO ELECTRIC CONTROL (PEC) SHALL ONLY BE SOLID-STATE DESIGN, WITH ELECTROMECHANICAL CONTACTS.
- PEC CONDUCTORS SHALL BE #12 RW90, COLOURS: RED, BLACK AND WHITE. THE PEC CONDUCTORS SHALL BE A COMPLETE RUN, WITHOUT SPLICES, FROM THE PEC TO THE ELECTRICAL PANEL. BUNDLED SEPARATE OF THE STREET LIGHTING CONDUCTORS.
- LUMINAIRES SHALL BE WIRED WITH #12 RW90 CONDUCTORS. BLACK AND WHITE FOR 120V SERVICE. BLACK AND RED FOR 240V SERVICE. WIRING BUNDLED SEPARATE OF THE PHOTO-ELECTRIC CONTROL (PEC) CONDUCTORS.
- LUMINAIRES ON BLACK CONDUCTOR ARE IDENTIFIED WITH A B DESIGNATION NEXT TO THE LUMINAIRES
- LUMINAIRES ON RED CONDUCTOR ARE IDENTIFIED WITH A R DESIGNATION NEXT TO THE LUMINAIRES
- EACH LUMINAIRE SHALL BE PROVIDED WITH A TRON HEB-AA FUSE-HOLDER C/W 2 L-TYPE INSULATING BOOTS, OR PRE-APPROVED EQUIVALENT. THE FUSE-HOLDER SHALL BE ACCESSIBLE IN THE HAND-HOLE COVER.
- EACH FUSE HOLDER SHALL BE PROVIDED WITH ONE 10-AMPERE BUSS KTK-TYPE FUSE (600V), WIRED IN THE LIVE CONDUCTOR(S). THE FUSE HOLDER SHALL BE ACCESSIBLE FROM THE HAND-HOLE ACCESS, OR JUNCTION BOX.
- ALL LUMINAIRE FIXTURES SHALL BE BONDED WITH A NUMBER 12 RW90 GREEN CONDUCTOR. THIS CONDUCTOR SHALL TERMINATE INTO THE BONDING CONDUCTOR RUN AT THE BASE OF THE POLE.
- THE BOND STUD OPENING SHALL BE AT THE REAR OF THE POLE AND SHALL NOT BE ON THE FLANGE OF THE ACCESS HOLE OPENING.
- THE INTERIOR COLOUR-FINISHED SURFACE SURROUNDING THE BOND STUD SHALL BE GROUND OFF TO THE GALVANIZING OR BARE STEEL FOR THE ELECTRICAL BOND ADHERENCE. TO ENSURE A PROPER BOND AND REDUCE CORROSION OR RUSTING, THE BONDING STUD SHALL BE INSTALLED IMMEDIATELY AFTER THE GRINDING.
- THE BONDING STUD IN EACH POLE SHALL COMPRISE OF ONE 3/8-16 BOLT 1.5-INCHES LONG, ONE SPLIT LOCK WASHER, AND TWO HEX NUTS. THE SPLIT LOCK-WASHER SHALL BE SLID ONTO THE BOLT ON THE INSIDE OF THE POLE, AND HELD TIGHTLY IN PLACE WITH THE FIRST NUT. THIS NUT SHALL BE TIGHTENED TO SPECIFICATION. THE RING TERMINAL SHALL BE SANDWICHED BETWEEN THE TWO HEX NUTS. THE LAST NUT HOLDS THE RING TERMINAL IN PLACE. ALL HARDWARE SHALL BE TIGHTENED TO SPECIFICATIONS.
- ALL POLES SHALL BE BONDED WITH A NO 8 RW90 BONDING CONDUCTOR. THE CONTRACTOR SHALL SUPPLY A 4WAY PIGTAIL SPLICE TO THE POLE BOND, AND WITH A RING LUG TERMINAL BENEATH THE BONDING HARDWARE.
- ALL LARGE GAUGE, MULTIPLE CONDUCTOR SPLICES, WHICH MAY EXCEED THE LARGER WIRE NUTS, SHALL UTILIZE SPLIT BOLT HARDWARE, DUCT SEALANT, AND WITH WEATHER-RESISTANT / WATER-PROOF CONNECTION MEANS. THE STANDARD HOUSE-HOLD "WIRE NUT" IS NOT WATER PROOF.
- ALL LARGE GAUGE (# 8 OR LARGER) SPLICES AND CONNECTIONS, WITHIN JUNCTION BOXES OR HAND ACCESS OPENINGS, SHALL BE SEALED WITH TAPE CONSISTING OF BISHOP BI-SEAL PHILLIPS ROTRUMDA OR 3M SELF HOLDING TAPE; COVERED WITH PVC TAPE AND DIPPED IN 3M SCOTCHCOAT. OR PRE-APPROVED EQUIVALENT.
- FUSE HOLDERS IN HAND HOLE ACCESS AND JUNCTION BOXES SHALL UTILIZE AN IDEAL INDUSTRIES OR BUCHANAN CONSTRUCTION PRODUCTS 65 KIT WATER-PROOF FUSE HOLDER, OR APPROVED EQUIVALENT. EACH FUSE-HOLDER SHALL BE PROVIDED WITH ONE 10-A BUSS KTK-TYPE FUSE, WIRED IN THE LIVE CONDUCTOR(S). FOR 240V LINE TO LINE SERVICES, ONE TWO FUSE SHALL BE USED.
- WIRING AND FUSE-HOLDERS IN POLE HAND ACCESS AND/OR JUNCTION BOXES SHALL BE MARKED WITH YELLOW WATER-PROOF WIRE MARKER TAGS, AND ATTACHED USING TIE-WRAPPS. LABELLING SHALL BE WITH A WATERPROOF SHARPIE INK PEN.
- ALL JUNCTION BOXES, IN SOFT BOULEVARD SHALL BE SUPPORTED/PROTECTED WITH A CONCRETE COLLAR. MINIMUM 200mm WIDE BY 150mm DEPTH, WITH REBAR. COLLAR TO SLOPE DOWN AWAY FROM BOX OPENING AT 3% TO DIRECT WATER AWAY FROM BOX OPENING. REFER TO COQUITLAM SUPPLEMENTAL SPECIFICATION DRAWING SS-E2.5 FOR DETAILS.
- JUNCTION BOXES SHALL BE PROVIDED WITH RPVC SUPPORT BARS TO SUPPORT THE ELECTRICAL CONNECTIONS AND FUSE HOLDERS (IF USED). THE RPVC BARS SHALL BE ATTACHED INTO THE JUNCTION BOX SIDEWALLS. THE ELECTRICAL CONNECTIONS AND FUSE-HOLDERS WILL BE HELD IN PLACE BY TIE-WRAPPS
- JUNCTION BOXES WITH METALLIC LIDS (NEW OR EXISTING) SHALL BE BONDED WITH A NO 8 RW90 BONDING CONDUCTOR WITH A SUITABLY SIZED RING LUG, AND STAINLESS STEEL HARDWARE. THE CONTRACTOR SHALL SUPPLY A PIGTAIL SPLICE FROM THE INTERNAL BONDING CONDUCTORS TO THE METALLIC LID BOND
- 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.
- POLYMER 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W BOLT DOWN 2 PIECE LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
- BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
- WIRING CONNECTIONS, SPLICES AND FUSE-HOLDERS IN JUNCTION BOXES SHALL BE KEPT OUT OF WATER
- ALL CONDUITS SHALL BE PROVIDED WITH A NYLON PULL LINE. CAPS SHALL HOLD THE NYLON CORD IN PLACE.
- EMPTY CONDUITS / CONDUITS ONLY (CO) SHALL BE PROVIDED WITH NYLON PULL STRINGS AND KEPT IN PLACE WITH UNGLUED CAPS AT EACH END
- WATER OR OTHER OBSTRUCTIONS ARE NOT PERMITTED IN CONDUITS. CONDUITS WITH WATER OR OTHER OBSTRUCTIONS SHALL BE BLOWN CLEAR.
- PER COQUITLAM SUBDIVISION BYLAWS, UNLESS VARIANCE IS ACCEPTED BY THE CITY THE MINIMUM SPACING BETWEEN STREET LIGHTS AND:
 - TREES SHALL BE 6-METERS
 - KIOSKS SHALL BE 3-METERS
 - DRIVEWAYS SHALL BE 2-METERS (EXCLUDING THE FLARE)
 - HYDRANTS SHALL BE 3-METERS
 - MANHOLES, VALVE BOXES, SERVICE CONNECTIONS SHALL BE 2-METERS
 - JUNCTION BOXES SHALL BE 2-METERS
- STREET LIGHT BASE FLANGES SHALL BE LEVEL ON TWO HORIZONTAL AXIS.
- STREET LIGHT BOLTS SHALL HAVE COLOUR-CODED NUT CAPS.

- IT SHALL BE THE CONTRACTORS / DEVELOPERS RESPONSIBILITY TO SUBMIT THE ELECTRICAL PERMITS TO THE ASSIGNED COQUITLAM FIELD INSPECTOR. COQUITLAM TRAFFIC OPERATIONS (OR ASSIGNED) WILL INSPECT THE INSTALLATIONS AND PROVIDE A DEFICIENCY LIST (IF NECESSARY). TRAFFIC OPERATIONS WILL ISSUE A REQUEST TO BC HYDRO FOR CONNECTIONS.
- DEVELOPERS ARE REQUIRED TO PAY A FLAT-RATE CHARGE TO CITY OF COQUITLAM FOR NEW BC HYDRO CONNECTION FEES. THIS DOES NOT APPLY WHERE NEW STREET LIGHTS ARE CONNECTED INTO EXISTING SERVICES.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE THEIR ELECTRICAL PERMIT TO THE CITY OF COQUITLAM, TRAFFIC OPERATIONS. ATTENTION: JARROD MITCHELL OR VLADAN POLEDICA.
- JUNCTION BOXES (IF USED), TOPS SHALL BE LEVEL ON 2 AXIS.

CONCRETE BASE NOTES

- THE CONCRETE BASES SHALL BE PER MMCD 2019 STANDARDS AND PLANS. PROVIDED WITH APPROPRIATE CONDUITS PER ENGINEERING REQUIREMENTS.
- THE CONCRETE BASE SHALL NOT BE FORMED ONSITE, AND SHALL NOT BE FORMED BY THE ELECTRICAL CONTRACTOR. THE CONCRETE BASE SHALL BE PROVIDED FROM A PRECAST COMPANY, SUCH AS AE PRECAST, ARMTEC, LANGLEY CONCRETE, ETC.
- CONCRETE BASES FOR A SERVICE BASE:
 - STREET LIGHTING: 40 AND 60-AMPERE PANELS, CONCRETE BASE WITH 5 OR MORE RPVC CONDUITS, PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, UPPER DETAIL
 - TRAFFIC SIGNAL: 100-AMPERE PANELS, CONCRETE BASE WITH 2 53MM RPVC CONDUITS, PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, LOWER DETAIL
 - PRIOR TO SERVICE BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THE CONCRETE BASE IS PROPERLY ORIENTATED SUCH THAT THE SERVICE CONDUIT (SC) IS ALIGNED TO THE PROTECTED AREA WITHIN THE ELECTRICAL PANEL WITHIN THE SERVICE BASE. REFER TO COQUITLAM SUPPLEMENTAL DRAWINGS SS E7.3 AND E7.4
 - THE CONCRETE BASE SHALL BE INSTALLED TO ENSURE THE CONCRETE BASE IS PROPERLY ALIGNED FOR THE SERVICE BASE ACCESS DOOR. PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, THE SERVICE BASE ACCESS DOOR SHALL BE ON THE DOWNWARD SIDE OF TRAFFIC.
 - CITY OF COQUITLAM CIVIL INSPECTOR SHALL ATTEND WHEN THE CONCRETE BASE IS TO BE INSTALLED, TO CONFIRM COMPLIANCE TO CITY OF COQUITLAM REQUIREMENT, WITH 12 HOURS ADVANCE NOTIFICATION.
- THE CIVIL/ELECTRICAL CONTRACTOR SHALL ENSURE STREET LIGHT POLES, FIXTURES AND RELATED EQUIPMENT MEETS OR EXCEEDS BC HYDRO AND WORKSAFEBC CLEARANCE REQUIREMENTS, FOR ALL OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CITY OF COQUITLAM, AND TO THE DESIGN ENGINEERS
- CONCRETE BASES WITH MORE THAN 2 CONDUITS SHALL BE NOTED ON THE PLANS. AS AN EXAMPLE, "THIS BASE HAS (X) CONDUITS"
- CONCRETE BASES SHALL BE PROVIDED WITH A V-GROOVE TO DISPERSE STANDING WATER. IF A V-GROOVE IS NOT AVAILABLE, THEN ROUND FLAT STAINLESS STEEL WASHERS SHALL BE MOUNTED BETWEEN THE CONCRETE BASE AND THE BOTTOM OF THE SERVICE BASE. U-SHAPED SHIMS NOT ACCEPTABLE.
- CONCRETE BASE TOPS SHALL BE 7-CM (~2.5-INCHES) ABOVE FINAL GRADE CONCRETE BASES SHALL BE LEVEL ON TWO HORIZONTAL AXIS

SERVICE BASE / ELECTRICAL PANEL / EARTHING ELECTRODE

- UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COQUITLAM CURRENT SUBDIVISION CONTROL BYLAWS, CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAILED DRAWINGS AND CITY OF COQUITLAM APPROVED MATERIALS AND PRODUCTS LISTINGS. MMCD 2019 MAY APPLY.
- UNLESS OTHERWISE INDICATED, THE SERVICE BASE AND ACCESS COVERS ARE TO BE GALVANIZED, PRIMED AND POWDER-COATED IN COLOUR PER THE DESIGN PLANS.
 - CITY OF COQUITLAM HAS SEVERAL COLOURS: RAL6028 GREEN, RAL9005 BLACK, RAL8014 BROWN, ETC. CONSULT THE PLANS FOR SPECIFIC COLOURS.
- THE SERVICE BASE ACCESS DOOR SHALL BE DOWNSTREAM OF TRAFFIC.
- THE SERVICE BASE SHALL BE MOUNTED ON A PREFORMED CONCRETE BASE:
 - THE CONCRETE BASE SHALL NOT BE FORMED ONSITE OR CAST-IN-PLACE, AND SHALL NOT BE FORMED BY THE ELECTRICAL CONTRACTOR. THE CONCRETE BASE SHALL BE PROVIDED FROM A PRECAST COMPANY, SUCH AS AE PRECAST, ARMTEC, LANGLEY CONCRETE, ETC.
 - THE CONCRETE BASE SHALL MEET OR EXCEED MMCD2009 SPECIFICATIONS, SECTION 34-41-1.3, SUBSECTION 3.3 CONCRETE BASES, PAGE 11 OF 16. PRIOR TO THE CONCRETE BASE INSTALLATION, A CERTIFICATE OF COMPLIANCE TO SUBSECTION 3.3.5 SHALL BE PROVIDED TO THE CIVIL INSPECTOR
 - STREET LIGHTING CONCRETE BASES: 40 OR 60-AMPERE PANEL (SIZE DEPENDANT ON LOADING REQUIREMENTS), CONCRETE BASE WITH 5 OR MORE RPVC CONDUITS, PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, UPPER DETAIL
 - TRAFFIC SIGNAL CONCRETE BASES: 100-AMPERE PANEL, CONCRETE BASE WITH ONE 35MM AND TWO 53MM RPVC CONDUITS, PER CITY OF COQUITLAM SUPPLEMENTAL PLAN SS-E7.3, LOWER DETAIL
- THE LOCKING TAB ON THE SERVICE BASE PEDESTAL, SHALL BE OF A ROBUST DESIGN AND MANUFACTURE, AND SHALL ACCEPT A STANDARD CITY PADLOCK. A WCE BULLDOG PRODUCT SHALL NOT BE INSTALLED.
- THE SERVICE BASE PEDESTAL SHALL BE PROVIDED WITH TWO 3/8-16 THREADED HOLES IN THE UPPER FLANGE AND WITH MATING CLEARANCE HOLES ON THE COVER. THESE HOLES SHALL BE AT THE TOP, ONE HOLE ON EITHER SIDE OF THE LOCKING TAB. THE CONTRACTOR SHALL PROVIDE 2 EACH 3/8-16 STAINLESS STEEL BOLTS, FLAT WASHERS AND ANTI-SEIZING COMPOUND. THE CITY MAY INSTALL SECURITY BOLTS.
- ALL THREADED BOLTS, NOT USED FOR ELECTRICAL CONNECTIONS, SHALL BE STAINLESS STEEL AND HAVE ANTI-SEIZE COMPOUND APPLIED.
- THE SERVICE BASE COVER SHALL NOT BE A SNUG FIT INTO THE SERVICE BASE OPENING. SOME LEEWAY SHALL BE PROVIDED TO FIT THE LOCKING TAB AND BOLTS THROUGH THE CLEARANCE OPENINGS.
- THE SERVICE BASE SHALL BE PROVIDED WITH A BONDING TAB. THE COLOUR-FINISHED SURFACE SURROUNDING THE BOND TAB SHALL BE GROUND OFF TO GALVANIZING OR TO BARE STEEL FOR THE ELECTRICAL BOND ADHERENCE. TO ENSURE A PROPER BOND AND REDUCE CORROSION OR RUSTING, THE BONDING STUD SHALL BE INSTALLED IMMEDIATELY AFTER THE GRINDING.
- THE ELECTRICIAN SHALL PROVIDE A NO. 8 GAUGE RW90 BOND WITH A RING LUG FROM THIS TAB INTO THE ELECTRICAL PANEL ONTO THE BONDING BUSS. THE 3/8-16 BOLT SHALL CONSIST OF ONE 3/8-16 BOLT, SPLIT LOCK WASHER AND 2 HEX NUTS. THE RING TERMINAL IS SANDWICHED BETWEEN THE 2 NUTS. TIGHTEN TO SPECIFICATIONS
- ELECTRICAL PANEL WITHIN THE SERVICE BASE SHALL BE:
 - FABRICATED FROM STAINLESS STEEL OR ALUMINIUM. THE PANEL SHALL BE SET STRAIGHT, AND PARALLEL TO INTERNAL SERVICE BASE SURFACES. ALL FOUR MOUNTING TABS SHALL BE BOLTED ON TO THE UNISTRUT RAILS WITHIN THE SERVICE BASE PEDESTAL
 - PROVIDED WITH A MAIN DISCONNECT, 2P-40A, 2P-60A, OR 2P-100A, 120/240V PER THE DESIGN PLANS. BRANCH BREAKERS ARE GENERALLY REQUIRED FOR THE 100-AMPERE PANELS.
 - THE PHOTO-ELECTRIC CONTROL (PEC) CIRCUIT FUSING SHALL PER MMCD, USE A KTK10 (10-AMPERE) FUSE (600V), AND SUITABLE FRONT PANEL MOUNTED FUSE-HOLDER. PUSH-BUTTON CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
 - THE PEC FUSE-HOLDER AND FUSE SHALL BE MOUNTED ON THE FRONT PANEL, NEAR THE H-O-A OR O-H-A 3-POSITION ROTARY SWITCH. THIS APPLIES TO 40A, 60A AND 100A ELECTRICAL PANELS
 - THE PEC BYPASS SWITCH SHALL BE A HEAVY-DUTY, 3-POSITION MAINTAINED, H-O-A OR O-H-A ROTARY SWITCH. TWO POSITION ROTARY SWITCH OR TOGGLE SWITCH, ARE NOT ACCEPTABLE.
 - THE FRONT PANEL PEC FUSE-HOLDER AND THE PEC BYPASS SWITCH SHALL BE PROVIDED WITH LABELS, DETAILS PER MMCD DRAWINGS
 - PROVIDED WITH AN SPD (SURGE PROTECTION DEVICE), MOUNTED WITHIN THE ELECTRICAL PANEL, AND WITH FAULT PROTECTION (CIRCUIT BREAKERS, FUSING, ETC.). DETAILED SURGE PROTECTION DEVICE SPECIFICATIONS FOLLOW.
 - PANEL SHALL BEAR ELECTRICALLY APPROVED LABELS FOR USE IN CANADA. SUCH AS CSA, ETL, CULUS, SPECIAL INSPECTIONS, ETC.
 - FOR THE 40A AND 60A ELECTRICAL PANEL, REFER TO CITY OF COQUITLAM SUPPLEMENTAL DRAWING SS-E7.5
- SURGE PROTECTION DEVICE SPECIFICATIONS:
 - ELECTRICAL ACCREDITATIONS: CSA, ETL, CULUS, ETC.
 - SYSTEM VOLTAGE AND FREQUENCY: 120/240V, 50/60 HERTZ
 - MINIMUM DISCHARGE RATING: 20kA
 - PROVIDED WITH LED STATUS INDICATORS, VISIBLE WHEN THE SERVICE BASE OR ELECTRICAL PANEL IS REMOVED. WITHOUT THE USE OF TOOLS.
 - PREFERRED MANUFACTURERS: MERSEN AND SQUARE-D. ALL OTHERS SHALL BE PRE-APPROVED.
- THE PEC CONDUCTORS SHALL BE #12 RW90, COLOURS: RED, BLACK AND WHITE. THE PEC CONDUCTORS SHALL BE A COMPLETE RUN, WITHOUT SPLICES, FROM THE PEC SOCKET TO THE ELECTRICAL PANEL. BUNDLED SEPARATE OF THE STREET LIGHTING CONDUCTORS.
- THE CONTRACTOR SHALL ENSURE THE SERVICE BASE IS PROPERLY ORIENTATED SUCH THAT THE SERVICE CONDUIT (SC) IS ALIGNED TO THE PROTECTED AREA WITHIN THE ELECTRICAL PANEL.
- STREET LIGHTS MOUNTED ON A SERVICE BASE SHALL BE WIRED PER MMCD DRAWINGS. LUMINAIRE CONDUCTORS SHALL BE GROUPED TOGETHER, AND SEPARATE OF THE PEC WIRING. GROUPING SHALL BE DONE WITH ELECTRICIANS TAPE.
- GAPS OR OPENINGS BETWEEN THE STREET LIGHT POLE BASE FLANGES, THE OPENINGS FOR THE NUTS AND BOLTS, TO THE TOP OF THE SERVICE BASE, SHALL BE SEALED WITH RTV SEALANT.
- HYDRO SERVICE (DIP) CONNECTIONS SHALL BE PER BC HYDRO STANDARDS OR PER MMCD (CURRENT EDITION). NOTE: HYDRO DIP SERVICES SHALL USE A 3-METER STEEL GUARD OVER RPVC CONDUITS, LAG BOLTED TO THE WOOD POLE. THE USE OF RIGID CONDUIT AND/OR RPVC TO RIGID CONDUIT FITTINGS IS NOT PERMITTED.
- THE ELECTRICAL CONTRACTOR SHALL PRE-TEST THE OPERATION OF THE ELECTRICAL PANEL WITHIN THE SERVICE BASE. THIS INCLUDES TESTING THE O-H-A/H-O-A

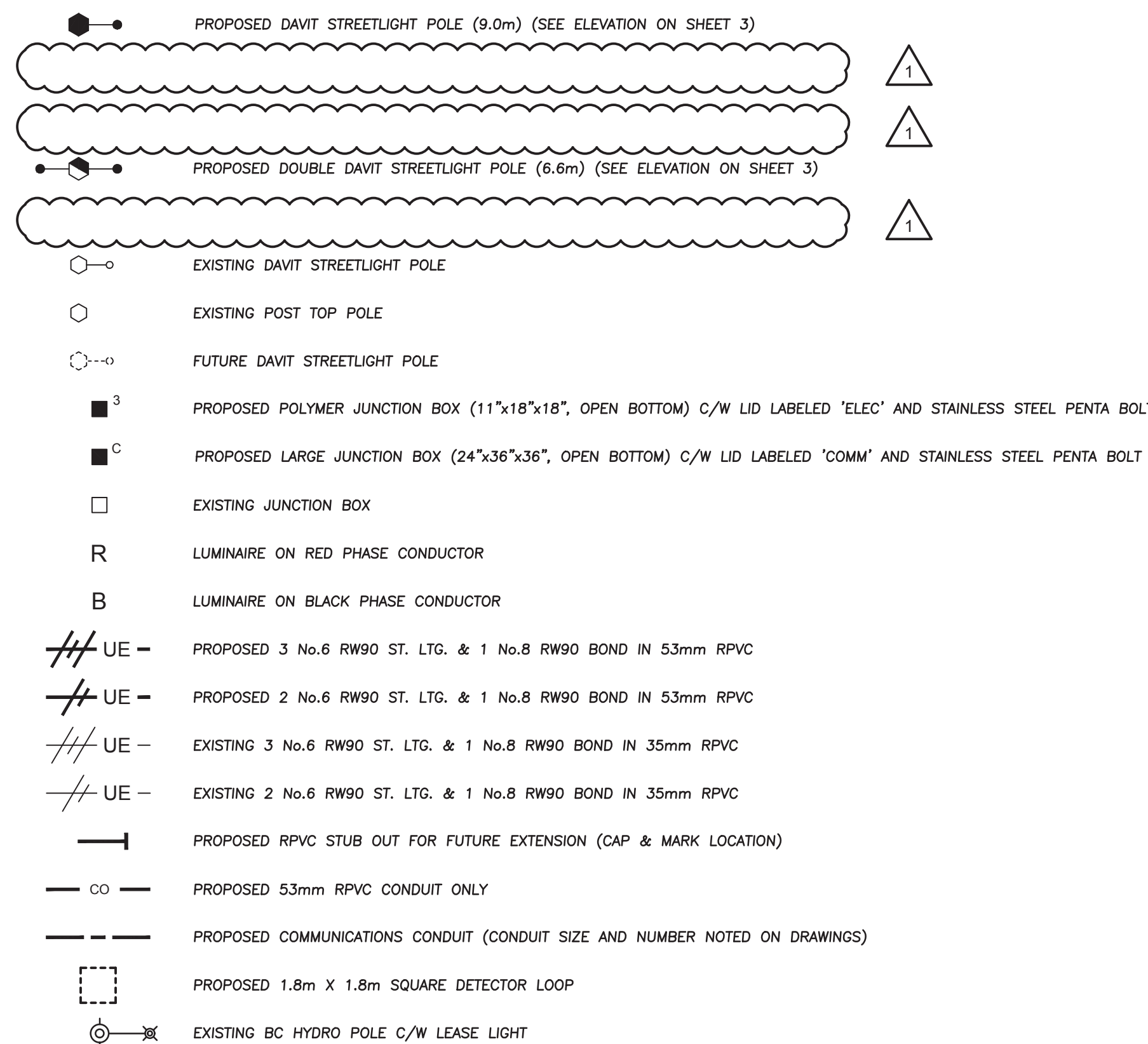
- SWITCH AND PEC FOR DAYTIME / NIGHTTIME SIMULATION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN EMAIL TO TRAFFIC OPERATIONS STAFF TO ADVISE THE SERVICE BASE HAS BEEN DULY TESTED AND READY FOR CONNECTION.
- THE EARTHING ELECTRODE SHALL BE SUPPLIED (TYPICALLY A PLATE) AND INSTALLED PER MMCD DRAWING E7.10:
 - THE PLATE SHOULD BE IN NATURAL SOIL, NO ROCKS, NO SAND
 - WIRED WITH A BARE #6 EARTHING CONDUCTOR, FROM THE ELECTRICAL PANEL PROTECTED AREA, TO THE PLATE ELECTRODE TAB, WITH AN ILSCO #BGC-1DB CLAMP, SUITABLE FOR DIRECT BURIAL IN EARTH.
 - THE PLATE MINIMUM DEPTH OF 900mm BELOW GRADE AND 200mm FROM CONCRETE BASE(S).
 - ELECTRICAL / CIVIL CONTRACTOR TO PROVIDE PICTURES SHOWING DIMENSIONS PER MMCD DRAWING E7.10. PICTURES TO BE SUPPLIED OR EMAILED TO CITY OF COQUITLAM CIVIL INSPECTORS, AND/OR TO TRAFFIC OPERATIONS SECTION STAFF.

LUMINAIRE FIXTURE NOTES

CITY OF COQUITLAM USES MULTIPLE LED LUMINAIRE STYLES. SOME LUMINAIRE INFORMATION IS BELOW.

- LUMINAIRE FIXTURES SHALL BEAR ELECTRICALLY APPROVED LABELS FOR USE IN CANADA. SUCH AS CSA, CEC, ULC, SPECIAL INSPECTIONS, ETC.
- UNLESS OTHERWISE NOTED, LOCAL/RESIDENTIAL STREETS SHALL BE LED 3000-DEGREES KELVIN, AND 4000-DEGREES KELVIN FOR ALL OTHERS.
- LUMINAIRES SHALL BE LED AND AS PER THE DESIGN DRAWINGS.
- MULTI-USE PATHWAY (MUP), SIDEWALKS AND WALKWAY LIGHTING SHALL BE LED, 4000-DEGREES KELVIN, PER CITY OF COQUITLAM APPROVED PRODUCTS LIST. LED WATTAGES, POLE STYLE AND HEIGHT, POLE COLOUR AND CONCRETE BASE PER DESIGN PLANS.
- PHOTO ELECTRIC CONTROL (PEC) SHALL ONLY BE SOLID-STATE DESIGN, WITH ELECTROMECHANICAL CONTACTS.
- THE PEC SOCKET SHALL BE PROVIDED WITH 7-CONTACTS (FUTURE SMART LIGHTING PROVISIONS). EACH LUMINAIRE SHALL BE PROVIDED WITH A 3-PIN TWIST LOCK SHORTING CAP (EXCEPT WHERE A PEC IS REQUIRED).
- PEC CONDUCTORS SHALL BE #12 RW90. COLOURS: RED, BLACK AND WHITE. THE PEC CONDUCTORS SHALL BE A CONTINUOUS RUN, WITHOUT SPLICES, TO THE ELECTRICAL PANEL. BUNDLED SEPARATE FROM THE LUMINAIRE CONDUCTORS.
- A NOTE SHALL BE PROVIDED TO INDICATE: PEC AIMED IN A NORTHERN DIRECTION.
- LED LUMINAIRE FIXTURES SHALL BE PROVIDED WITH AN LED WATTAGE/LUMEN LABEL (BLACK LETTERING ON WHITE BACKGROUND). LABEL SHALL BE VISIBLE FROM THE GROUND.

LEGEND



NOT FOR CONSTRUCTION
2025-02-05

BC CALL BEFORE YOU DIG
1-800-474-6886
or by CELLULAR #6888
Reconnect Area 257-840

COQ. ASBULT No. **EXXXX**

CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

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

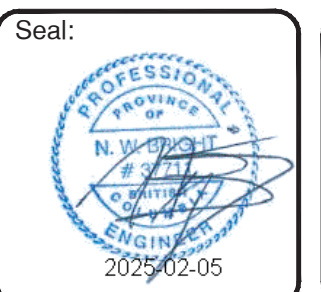
DMD & Associates
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DMD PROJECT No. 7519-22-01 of 08

No.	Date	By	Revisions
1	05-02-2025	BG	ADDENDUM #1
1	15-01-2025	BG	DRAFT - ISSUED FOR TENDER
1	13-12-2024	BG	FIRST 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: 05-02-2025
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia



Design by	Date	Scale
BG	16-05-2018	-
Drawn by	Date	Sheet of
YJ	16-05-2018	1 OF 8
Checked by	Date	Eng. Project No.
NB	16-05-2018	1500
Approved by	Date	
	16-05-2018	

Project: **PIPELINE ROAD GUILDFORD WAY TO DAVID AVENUE**
Description: **STREET LIGHTING**
File: 7519-22

ROADWAY LIGHTING DESIGN CRITERIA PER: (CITY BYLAW 3558)

ROADWAY (NAME)	PIPELINE ROAD	
LAND USE CLASSIFICATION	RESIDENTIAL	
ROADWAY CLASSIFICATION & WIDTH	ARTERIAL (VARIES)	
PEDESTRIAN ACTIVITY	MEDIUM	
LUMINANCE RECOMMENDED/DELIVERED	0.9 cd/m ²	1.0 cd/m ²
UNIFORMITY RECOMMENDED/DELIVERED (AVG:MIN)	3.0:1	1.6:1
UNIFORMITY RECOMMENDED/DELIVERED (MAX:MIN)	5.0:1	3.5:1
LV RATIO RECOMMENDED/ DELIVERED (VLMAX:AVG)	0.3:1	0.3:1
LIGHT LOSS FACTOR	0.84	
SPACING	AS SHOWN	
EQUIPMENT		
FIXTURE TYPE: LED	WATTAGE: 28/41W	MTG. HEIGHT: 6.6m DIST TYPE: 2ES
IES FILE:	NXT-24S-/350mA/525mA-2ES-4000K	MODEL: NXT-24S- SERIES
FIXTURE TYPE: LED	WATTAGE: 60W	MTG. HEIGHT: 6.6m DIST TYPE: 2ES
IES FILE:	NXT-36S-525mA-2ES-4000K	MODEL: NXT-36S- SERIES
FIXTURE TYPE: LED	WATTAGE: 78/100/117/135/158W	MTG. HEIGHT: 9m DIST TYPE: 2ES
IES FILE:	NXT-72M-350mA/450mA/525mA/600mA/700mA-2ES-4000K	MODEL: NXT-72M- SERIES

* BASED ON THE WORST CASE SCENARIO
** BASE ON A 20-YEAR FIXTURE LIFE AND 10-YEAR CLEANING CYCLE

WALKWAY / BIKE LANES LIGHTING DESIGN CRITERIA PER: (CITY BYLAW 3558)

WALKWAY (NAME)	PIPELINE ROAD	
WALKWAY CLASSIFICATION	MEDIUM	
ILLUMINANCE RECOMMENDED/DELIVERED	5.0 LUX	5.5 LUX
UNIFORMITY RECOMMENDED/DELIVERED	5.0:1	2.2:1
LIGHT LOSS FACTOR	0.84	
SPACING (SINGLE SIDED)	AS SHOWN	
EQUIPMENT		
FIXTURE TYPE: LED	WATTAGE: 28W/41W	MTG. HEIGHT: 6.6m DIST TYPE: 2ES
IES FILE:	NXT-24S-350mA/525mA-2ES-4000K	MODEL: NXT-24S- SERIES
FIXTURE TYPE: LED	WATTAGE: 28W	MTG. HEIGHT: 5m DIST TYPE: 2ES
IES FILE:	NXT-24S-350mA-2ES-4000K	MODEL: NXT-24S- SERIES
FIXTURE TYPE: LED	WATTAGE: 60W	MTG. HEIGHT: 6.6m DIST TYPE: 2ES
IES FILE:	NXT-36S-525mA-2ES-4000K	MODEL: NXT-36S- SERIES

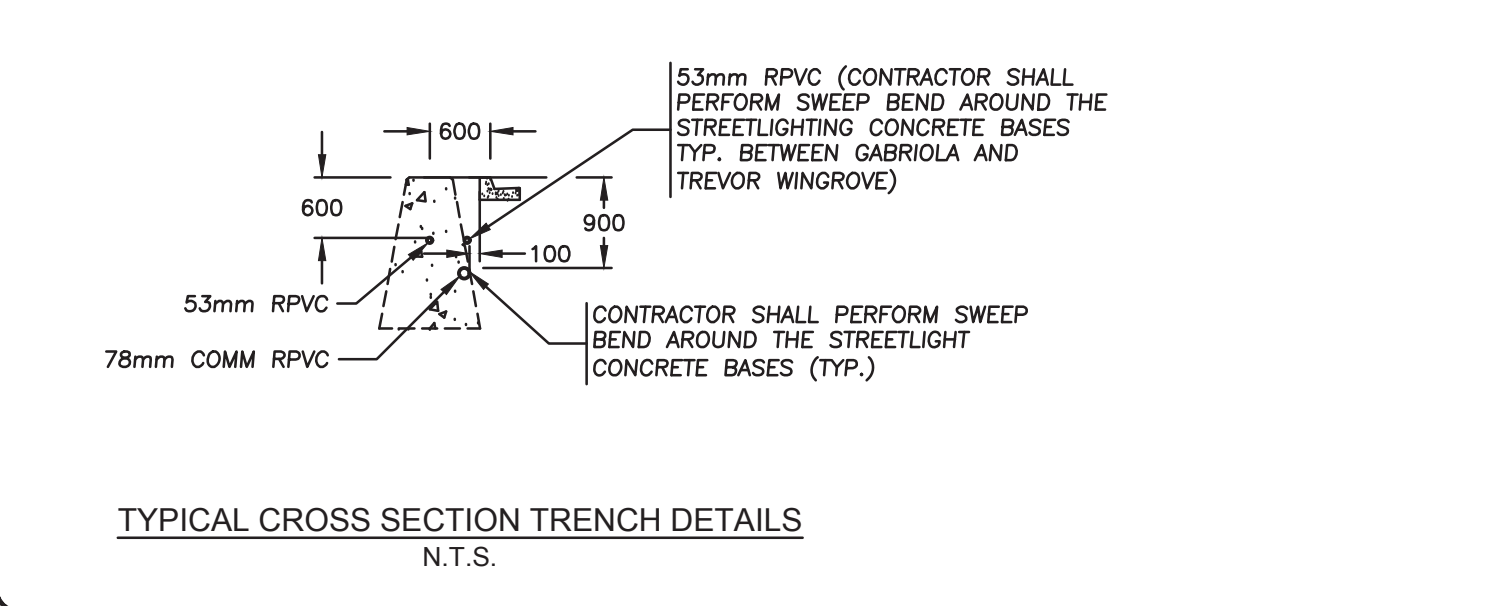
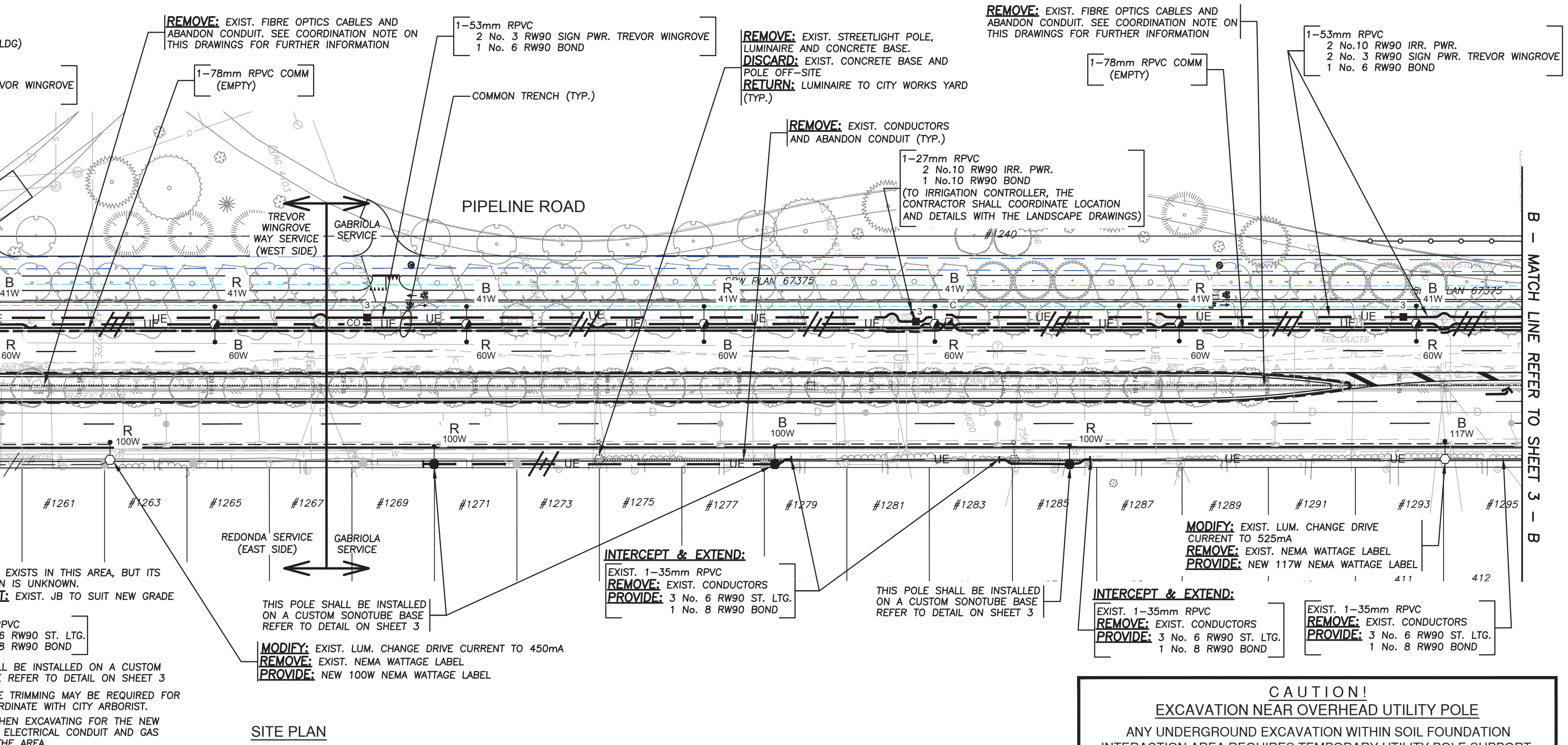
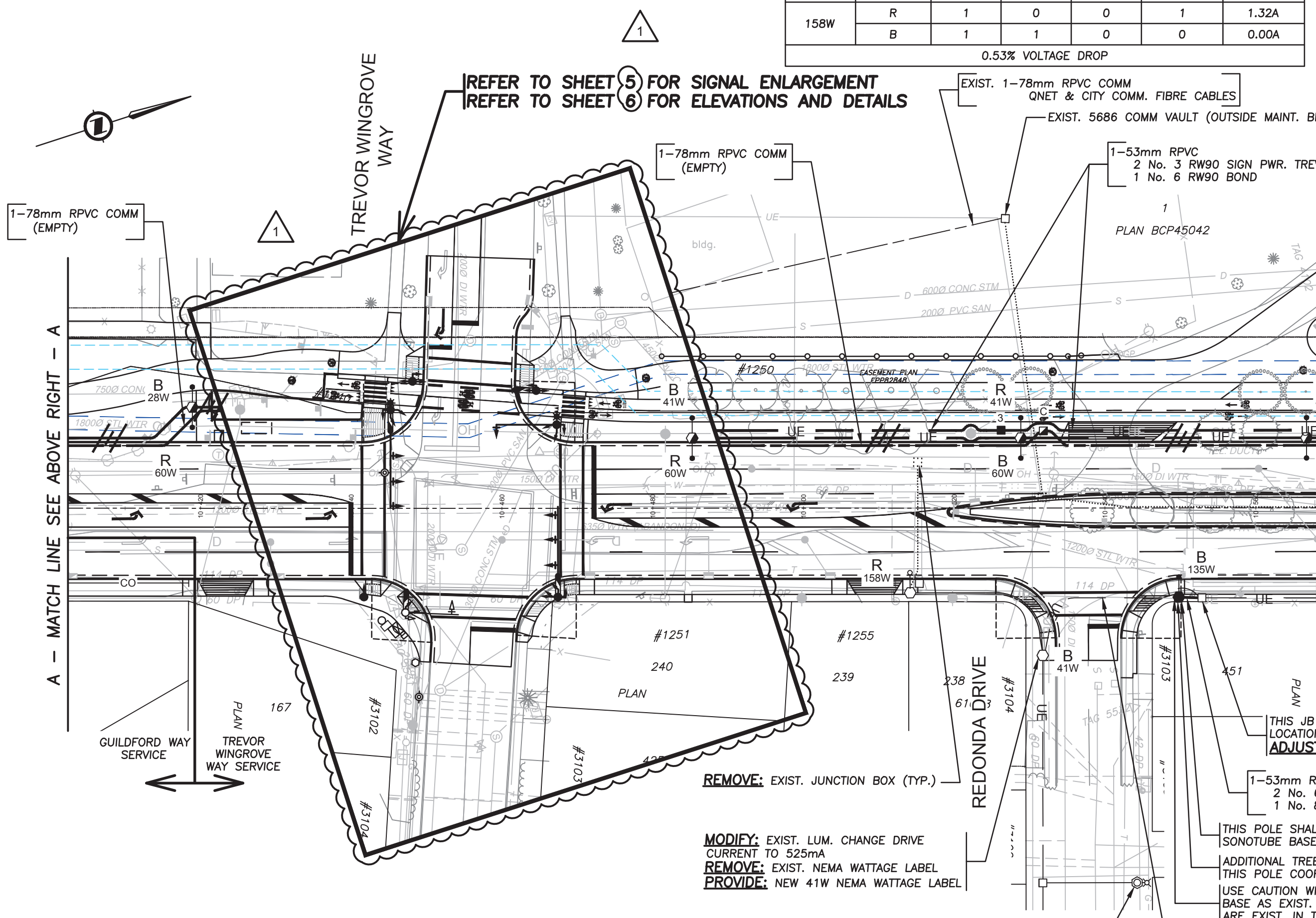
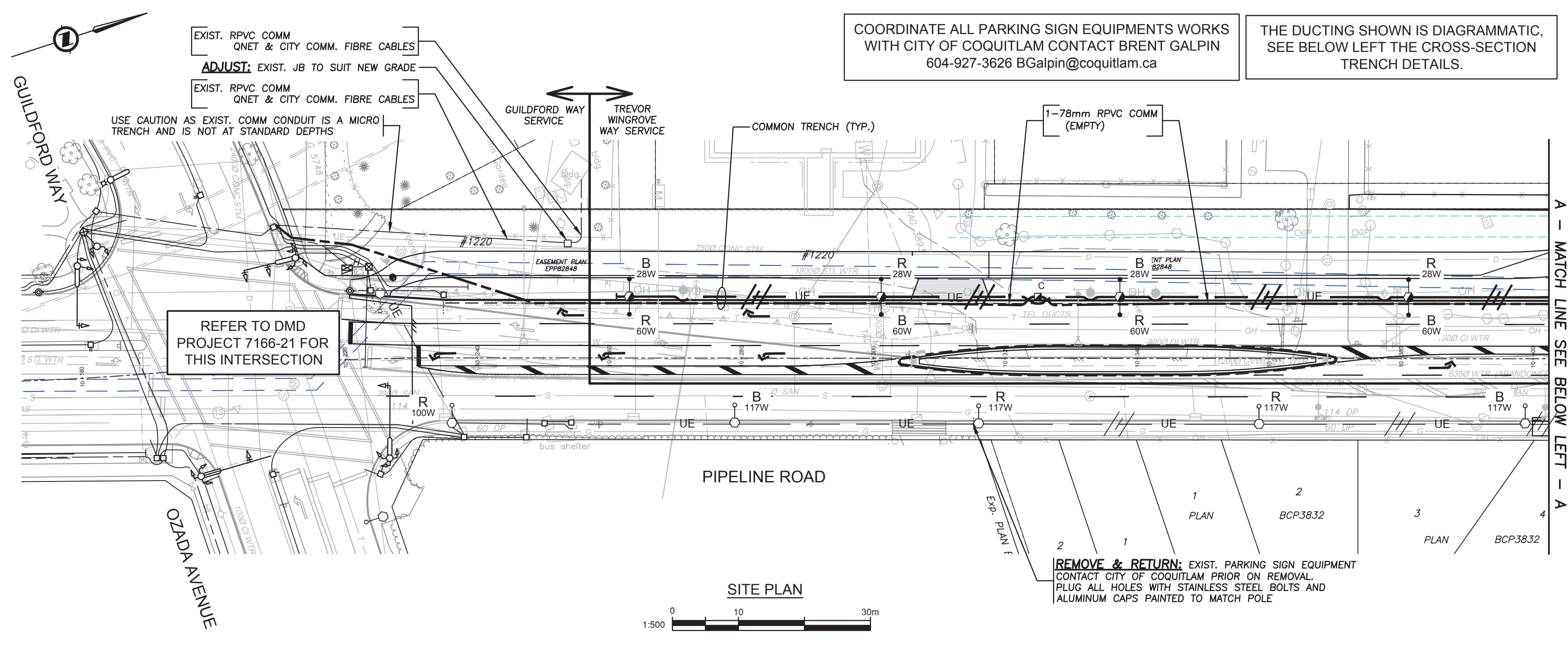
* STREET LIGHTS INCLUDED IN CALCULATION
** BASE ON A 20-YEAR FIXTURE LIFE AND 10-YEAR CLEANING CYCLE

120V SERVICE LOAD (100A-120/240V SERVICE BASE AT 3107 REDONDA DR)

WATTAGE (W)	CCT.PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT (A)
28W	R	6	0	0	6	1.40A
	B	6	1	0	5	1.17A
41W	R	0	0	0	0	0.00A
	B	0	0	1	1	0.34A
52W	R	0	0	0	0	0.00A
	B	3	0	0	3	1.30A
100W	R	0	0	1	1	0.83A
	B	0	0	0	0	0.00A
135W	R	0	0	0	0	0.00A
	B	0	0	1	1	1.13A
158W	R	1	0	0	1	1.32A
	B	1	1	0	0	0.00A

0.53% VOLTAGE DROP

EXISTING FIBRE OPTIC CABLES ON PIPELINE ROAD SHALL REMAIN IN OPERATION AND SHALL BE PROTECTED WHEN NECESSARY UNTIL THE NEW CONDUITS AND CABLES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL COORDINATE WITH QNET AT LEAST 3 WEEKS PRIOR TO CONSTRUCTION. CONTACT BRENT GALPIN (604-927-3626 / bgalpin@coquitlam.ca) OR DWAIN ROOPER (604-927-3605 / drooper@coquitlam.ca) TO COORDINATE THE REMOVAL, CUT OVER, SPLICING AND CONNECTIONS. QNET WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING THE NEW FIBER OPTIC CABLES AND SPLICE ENCLOSURES.



NOT FOR CONSTRUCTION
2025-02-05

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

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.

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.

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.

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.

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.

Benchmark:
Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.
Plot Date: February 5, 2025

DMD & Associates
Electrical Consultants Ltd.
#12-11504 104th Avenue, Surrey, BC, Canada V4N 0A3
www.dmdeng.com 604-589-9010
office@dmdeng.com Fax 604-589-9012
DMD PROJECT No. 7519-22-02 of 08

No.	Date	By	Revisions
1	05-02-2025	BG	ADDENDUM #1
	15-01-2025	BG	DRAFT - ISSUED FOR TENDER
	13-12-2024	BG	FIRST 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: 05-02-2025
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia



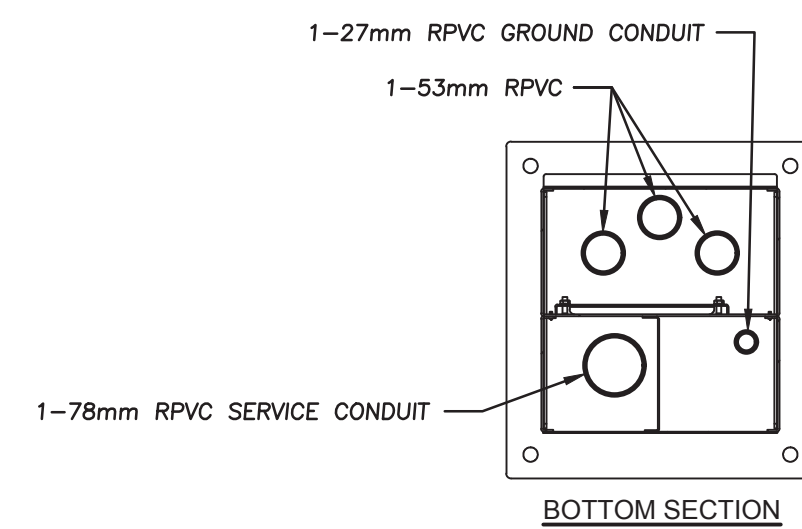
Design by	Date	Scale
BC	18-05-2018	1:500
Drawn by	Date	Sheet of
YJ	18-05-2018	2 OF 8
Checked by	Date	Eng. Project No.
NB	18-05-2018	
Approved by	Date	
	18-05-2018	

**PIPELINE ROAD
GUILDFORD WAY TO DAVID AVENUE
STREET LIGHTING**
File: 7519-22

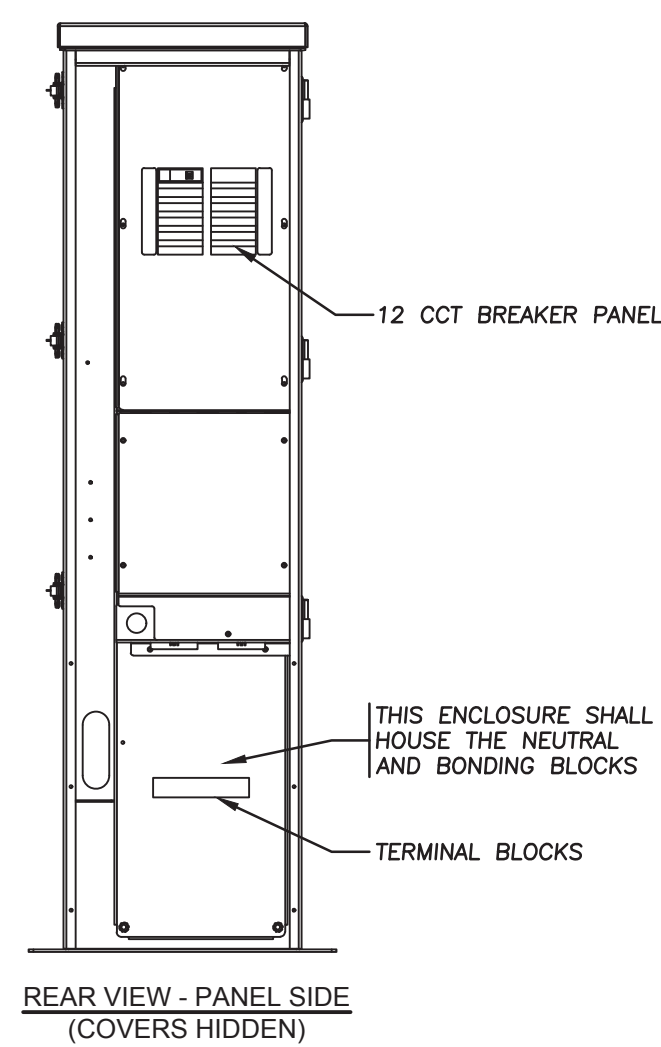
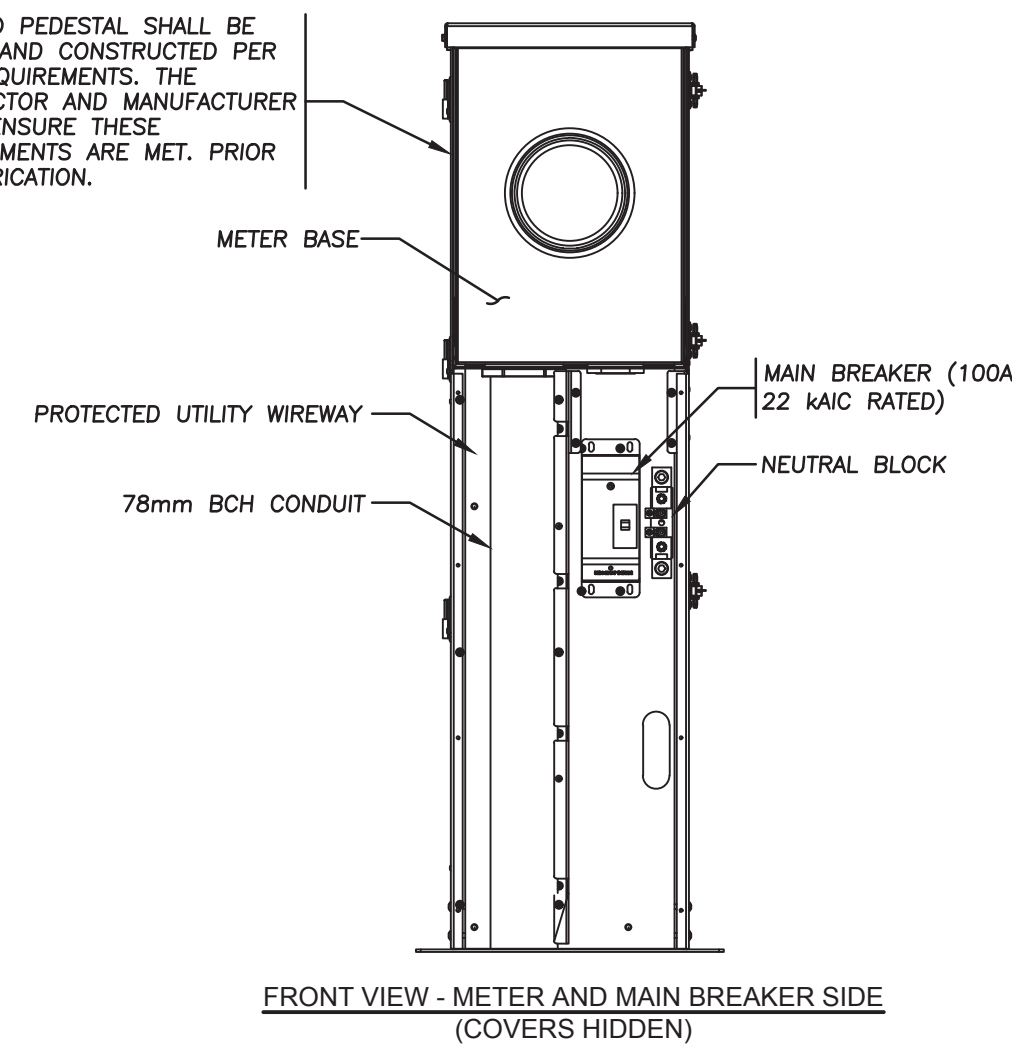
CALL BEFORE YOU DIG
1-800-474-6886
or by CELLULAR #6886
Vancouver Area 257-9440
CALL AT LEAST TWO HOURS WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBULT No. **EXXXX**

METERED PEDESTAL SHALL BE INSTALLED ON A CUSTOM TYPE CS CONCRETE BASE. THE CONTRACTOR SHALL ENSURE ANCHOR BOLT LOCATION ALIGN WITH THE PEDESTAL AND ARE SIZED IS PER THE MANUFACTURERS SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATED THE CONDUIT LAYOUT TO SUIT THE METERED PEDESTAL.



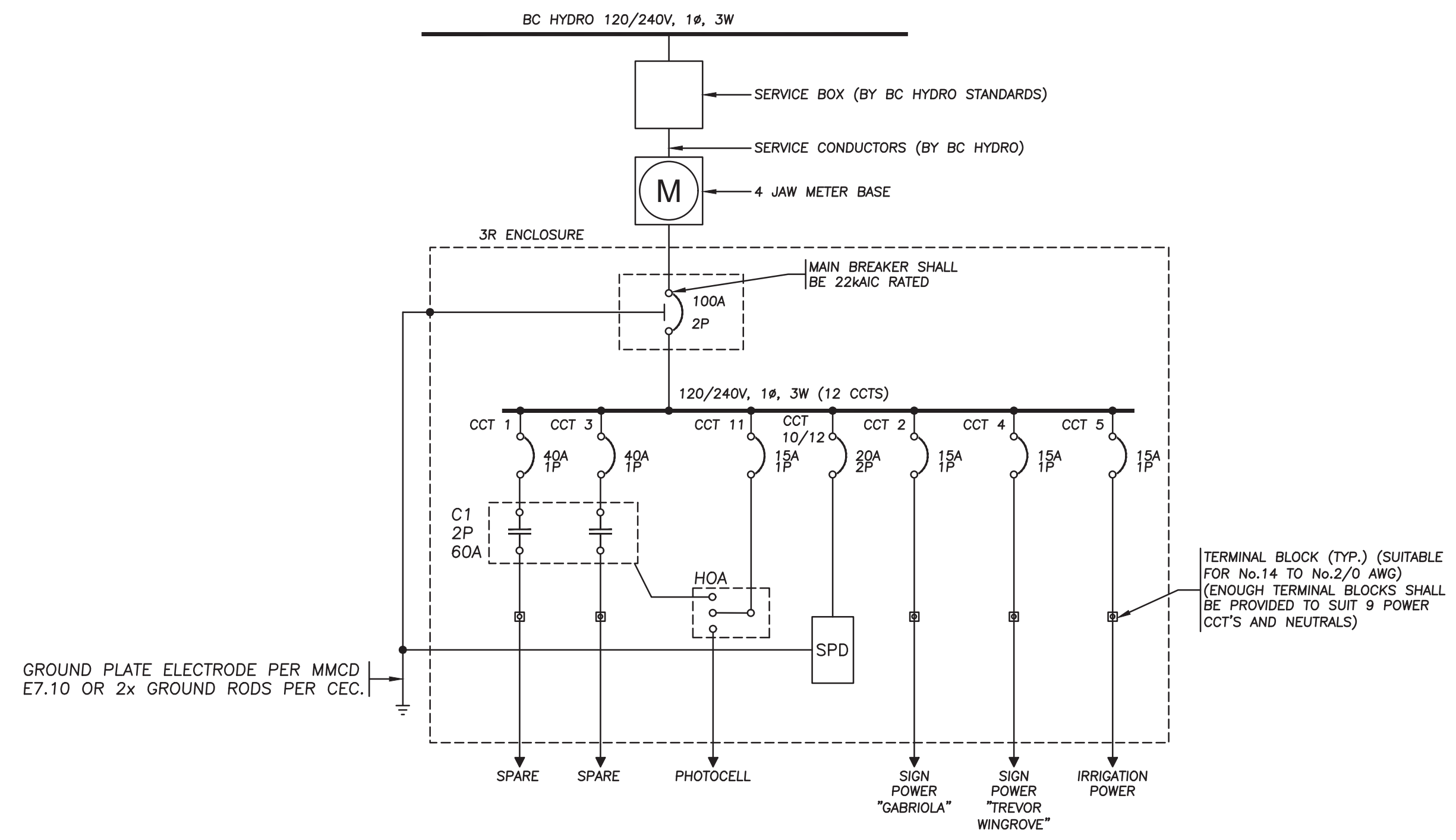
METERED PEDESTAL SHALL BE DESIGN AND CONSTRUCTED PER BCH REQUIREMENTS. THE CONTRACTOR AND MANUFACTURER SHALL ENSURE THESE REQUIREMENTS ARE MET. PRIOR TO FABRICATION.



METERED PEDESTAL AT GABRIOLA DETAIL
N.T.S.

1

INFORMATION SHOWN ON THIS SHEET IS NOT NEW TO THE TENDER. THIS INFORMATION USE TO BE ON THE DAVID AVENUE AND PIPELINE ROAD DRAWINGS THAT HAS BEEN REMOVED FROM THIS TENDER.



METERED PEDESTAL SINGLE LINE DIAGRAM
N.T.S.

NOT FOR CONSTRUCTION
2025-02-05



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.
#12-17358 104A Avenue, Surrey, B.C. Canada V4N 0A3
www.dmdeng.com 604-589-9010
office@dmdeng.com Fax 604-589-9012
DMD PROJECT No. 7519-22-04 of 08

No.	Date	By	Revisions
1	05-02-2025	BG	ADDENDUM #1

ACCEPTED FOR CONSTRUCTION
Date: _____
Manager of Development Servicing

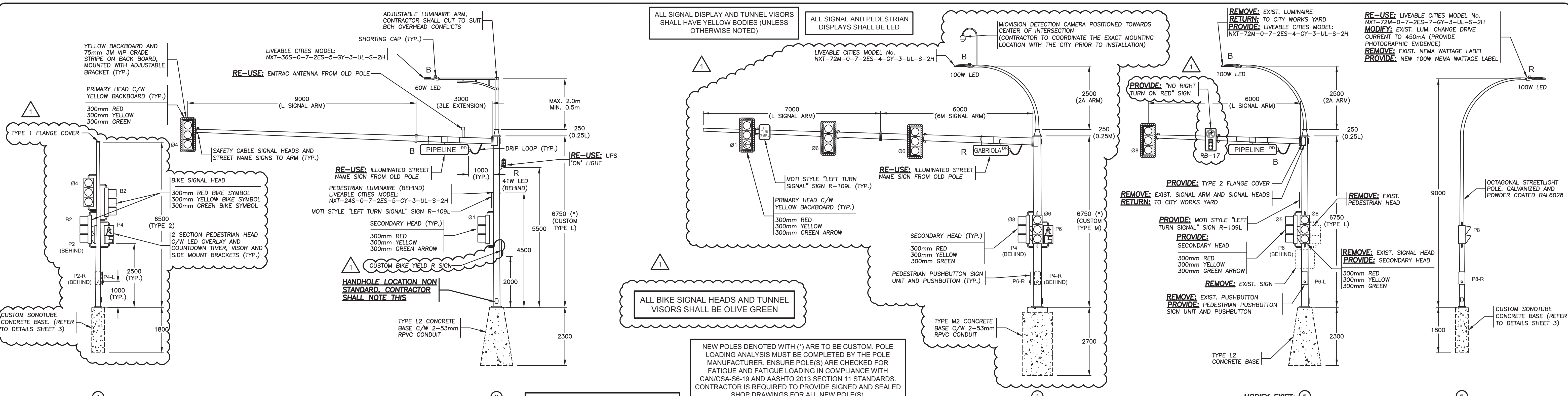
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

PERMIT TO PRACTICE
Signature: _____
Date: 05-02-2025
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia



Design by BG	Date 18-05-2018	Scale
Drawn by YJ	Date 18-05-2018	Sheet of 4 OF 8
Checked by NB	Date 18-05-2018	Eng. Project No.
Approved by	Date 18-05-2018	

Project: PIPELINE ROAD GUILDFORD WAY TO DAVID AVENUE STREET LIGHTING
Description: STREET LIGHTING
File: 7519-22

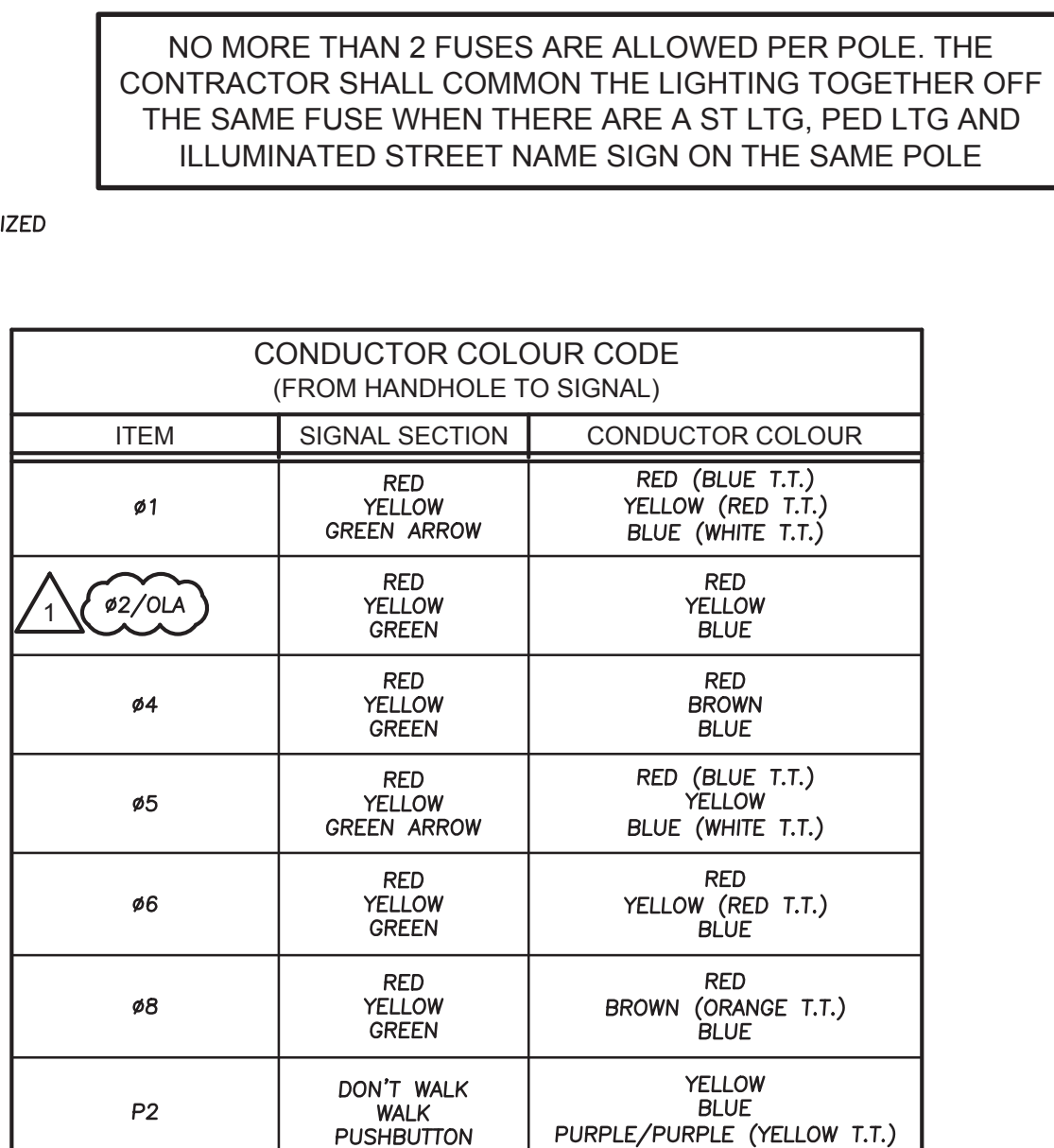
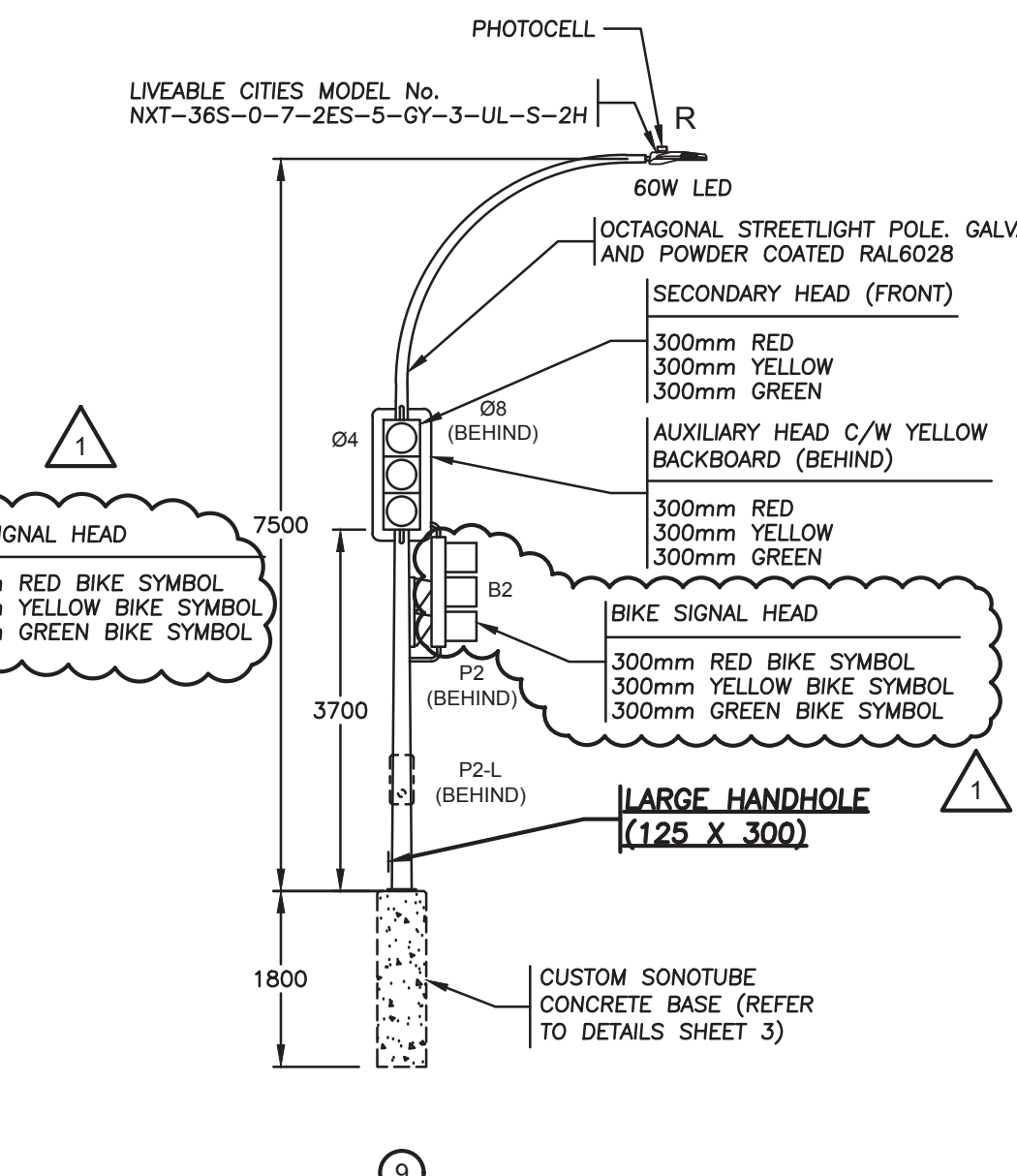
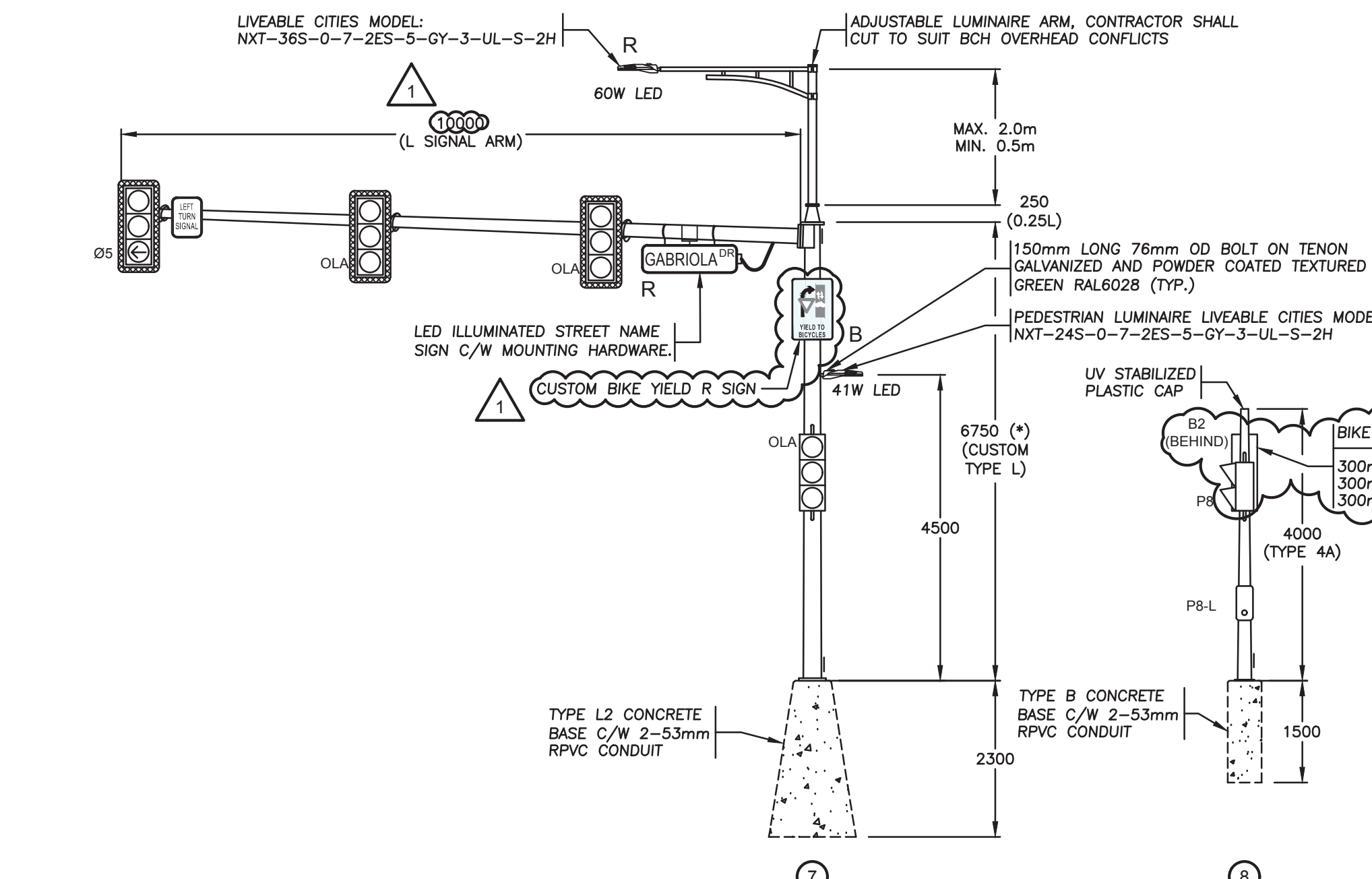


NEW POLES DENOTED WITH (*) ARE TO BE CUSTOM. POLE LOADING ANALYSIS MUST BE COMPLETED BY THE POLE MANUFACTURER. ENSURE POLE(S) ARE CHECKED FOR FATIGUE AND FATIGUE LOADING IN COMPLIANCE WITH CAN/CSA-S6-19 AND AASHTO 2013 SECTION 11 STANDARDS. CONTRACTOR IS REQUIRED TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS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

PLUG OLD HOLE WITH STAINLESS STEEL BOLTS AND ALUMINUM CAPS. PAINT TO MATCH POLES



NO MORE THAN 2 FUSES ARE ALLOWED PER POLE. THE CONTRACTOR SHALL COMMON THE LIGHTING TOGETHER OFF THE SAME FUSE WHEN THERE ARE A ST LTG, PED LTG AND ILLUMINATED STREET NAME SIGN ON THE SAME POLE



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

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:

- POLARA NAVIGATOR IDS2 SYSTEM
- ILLUMINATED STREET NAME SIGNS C/W MOUNTING HARDWARE
- MIOVISION EQUIPMENT C/W MOUNTING BRACKET AND CABLE

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

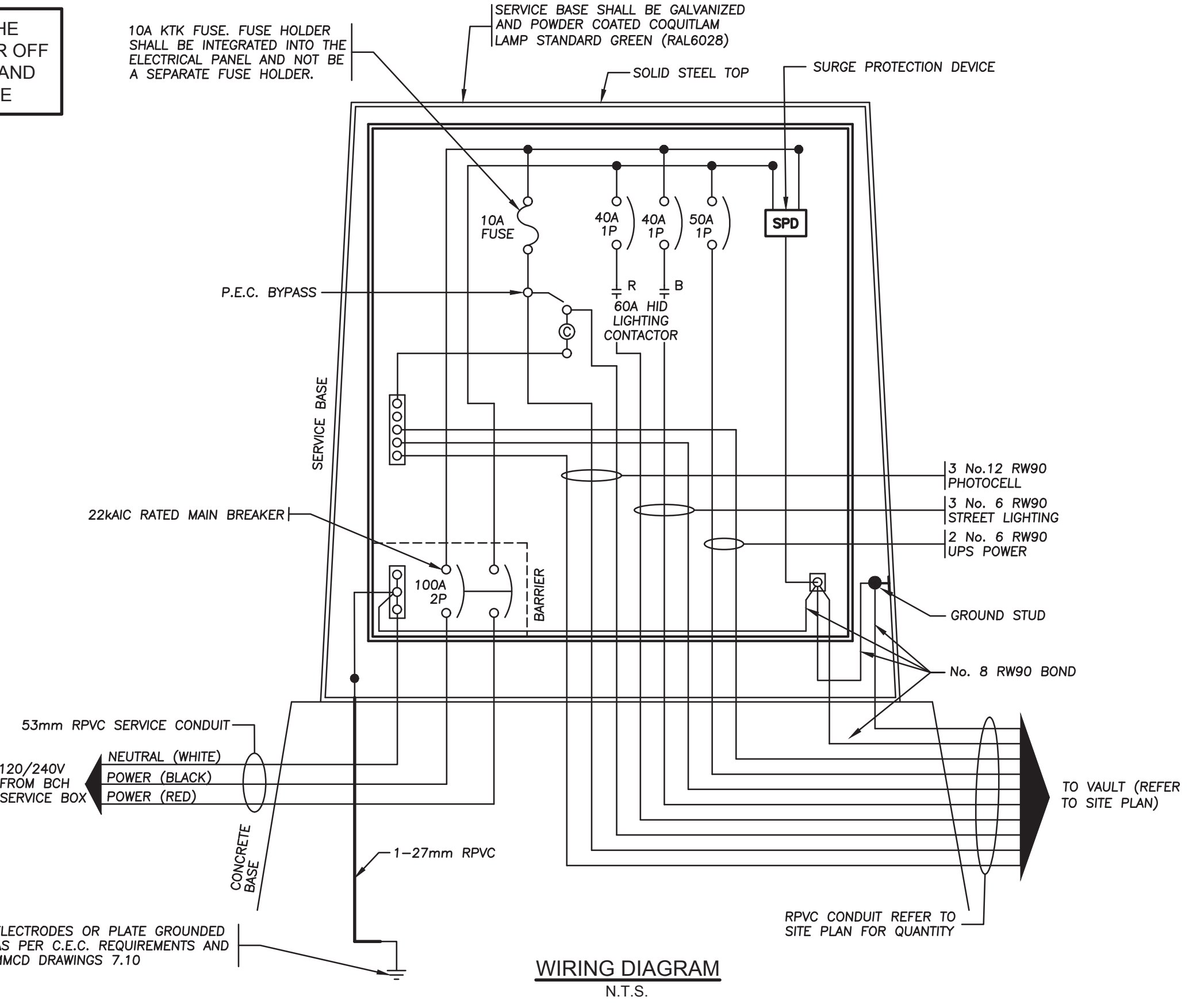
THE CONTRACTOR SHALL COORDINATE ALL TERMINATION IN THE TRAFFIC CONTROLLER WITH THE CITY

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.

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

CONDUCTOR COLOUR CODE (FROM HANDHOLE TO SIGNAL)		
ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
#1	RED	RED (BLUE T.T.)
	YELLOW	YELLOW (RED T.T.)
	GREEN ARROW	BLUE (WHITE T.T.)
#2/OLA	RED	RED YELLOW BLUE
	YELLOW GREEN	RED YELLOW BLUE
#4	RED YELLOW GREEN	RED BROWN BLUE
#5	RED YELLOW GREEN ARROW	RED (BLUE T.T.) BLUE (WHITE T.T.)
#6	RED YELLOW GREEN	RED YELLOW (RED T.T.) BLUE
#8	RED YELLOW GREEN	RED (ORANGE T.T.) BLUE
P2	DON'T WALK WALK PUSHBUTTON	YELLOW BLUE PURPLE/PURPLE (YELLOW T.T.)
P4	DON'T WALK WALK PUSHBUTTON	BROWN BLUE PURPLE/PURPLE (BROWN T.T.)
P6	DON'T WALK WALK PUSHBUTTON	YELLOW (RED T.T.) BLUE PURPLE/PURPLE (RED T.T.)
P8	DON'T WALK WALK PUSHBUTTON	BROWN (ORANGE T.T.) BLUE PURPLE/PURPLE (ORANGE T.T.)
ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
SIGNAL NEUTRAL	NEUTRAL	WHITE
CONTROLLER/UPS	POWER	BLACK
STREET LIGHTING	POWER POWER	BLACK RED
PANEL SUPPLY	POWER POWER	BLACK RED
PHOTOCELL	POWER	BLACK
NEUTRAL	SWITCH LEG	RED
GROUND/BOND	GROUND/BOND	GREEN

NOTE: T.T. DENOTES TAPE TRACER.



NOT FOR CONSTRUCTION 2025-02-05

BC CALL BEFORE YOU DIG 1-800-474-6886 or by CELLULAR #888 Vancouver Area 257-840

COQ. ASBULT No. EXXXX

INTERSECTION DESIGN CRITERIA PER: (CITY BYLAW 3558)		
INTERSECTION (NAME)	PIPELINE ROAD	GABRIOLA DRIVE
LAND USE CLASSIFICATION	RESIDENTIAL	RESIDENTIAL
ROADWAY CLASSIFICATION & WIDTH	ARTERIAL	COLLECTOR
PEDESTRIAN CONFLICT	MEDIUM	MEDIUM
ILLUMINANCE RECOMMENDED/DELIVERED	22.0 LUX	28.6 LUX
UNIFORMITY RECOMMENDED/DELIVERED	3.0:1	1.8:1
LIGHT LOSS FACTOR		0.84
SPACING	AS SHOWN	
EQUIPMENT		
FIXTURE TYPE: LED	WATTAGE: 100W	MTG. HEIGHT: 9.5m DIST TYPE: 2ES
IES FILE:	NXT-72M-450mA-2ES-4000K	MODEL: NXT-72M- SERIES
FIXTURE TYPE: LED	WATTAGE: 60W	MTG. HEIGHT: 7.5m DIST TYPE: 2ES
IES FILE:	NXT-36S-525mA-2ES-4000K	MODEL: NXT-36S- SERIES
FIXTURE TYPE: LED	WATTAGE: 60W	MTG. HEIGHT: 9.0m DIST TYPE: 2ES
IES FILE:	NXT-36S-525mA-2ES-4000K	MODEL: NXT-36S- SERIES
FIXTURE TYPE: LED	WATTAGE: 100W	MTG. HEIGHT: 9.0m DIST TYPE: 2ES
IES FILE:	NXT-72M-450mA-2ES-4000K	MODEL: NXT-72M- SERIES

* BASE 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.
 #12-11358 104th Avenue, Surrey, BC, Canada V4N 0A3
 www.dmdeng.com 604-589-9012
 office@dmdeng.com Fax 604-589-9012
 DMD PROJECT No. 7519-22-08 of 08

No.	Date	By	Revisions
1	05-02-2025	BG	ADDENDUM #1
	15-01-2025	BG	DRAFT - ISSUED FOR TENDER
	19-12-2024	BG	FIRST 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: 05-02-2025
 PERMIT NUMBER: 1000771
 The Association of Professional Engineers and Geoscientists of British Columbia



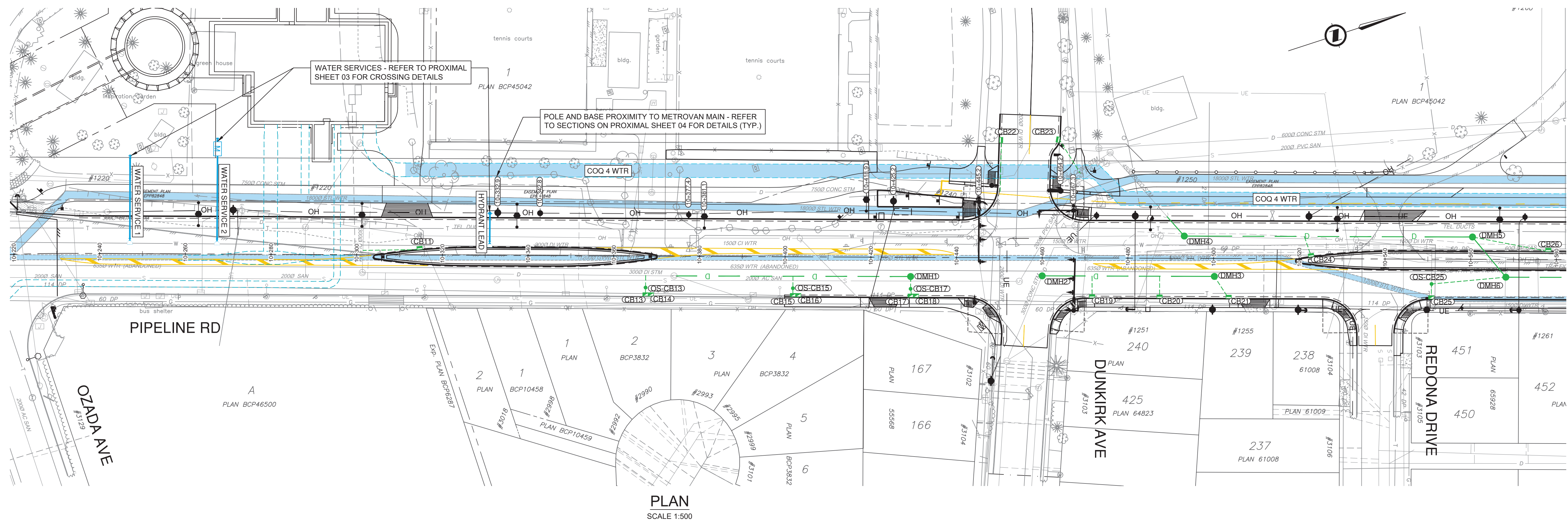
Design by	Date	Scale
BG	18-05-2018	1/75
Drawn by	Date	Sheet of
YJ	18-05-2018	8 OF 8
Checked by	Date	Eng. Project No.
NB	18-05-2018	
Approved by	Date	
	18-05-2018	

Project: PIPELINE ROAD GABRIOLA DRIVE
 Description: TRAFFIC SIGNAL MODIFICATIONS
 File: 7519-22-TS

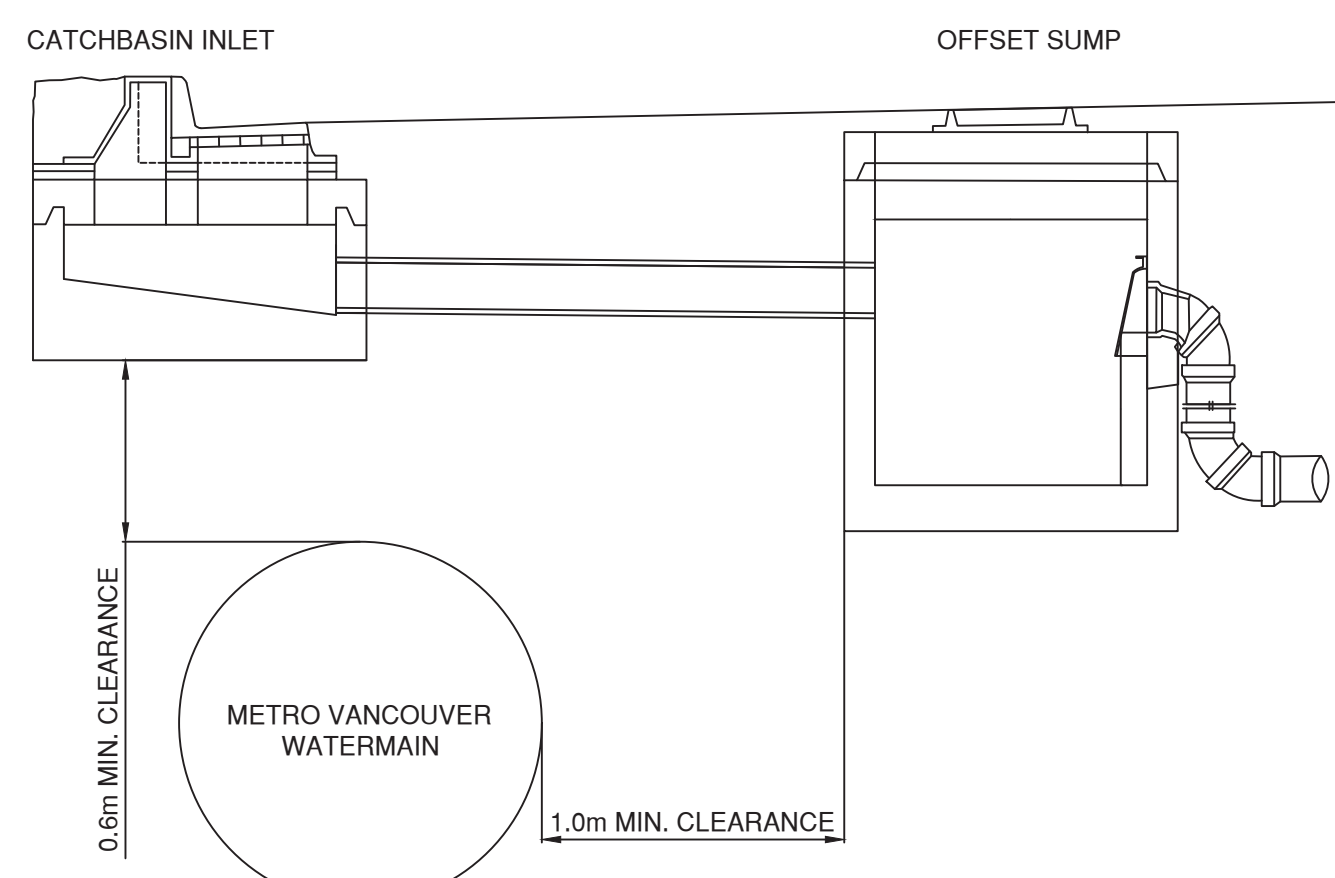
IMPORTANT:

- SCOPE AND EXPOSE EX. UTILITIES/SERVICES, AND RECORD LOCATION, SIZE & INVERT ELEVATIONS AT PROP. OR POTENTIAL CROSSINGS PRIOR TO CONSTRUCTION. THE AS-BUILT UNDERGROUND INFORMATION SHOWN ON THIS DRAWING IS DERIVED FROM COMBINATION OF SURVEY AND RECORD DRAWINGS AND REQUIRE CONFIRMATION OF LOCATION PRIOR TO CONSTRUCTION.
- OIL AND GAS ACTIVITIES ACT (SEC. 76) REQUIRES WRITTEN PERMISSION MUST BE OBTAINED PRIOR TO ACTIVITY WITHIN THIRTY (30) METRES OF AN INTERMEDIATE PRESSURE PIPELINE OR TRANSMISSION PRESSURE PIPELINE.
- CONTRACTOR TO ENSURE MINIMUM COVER OF 1.0m IS MAINTAINED OVER ALL METRO VANCOUVER WATERMANS. NOTIFY PROJECT ENGINEER IF PROPOSED DESIGN GRADES REDUCE COVER BELOW THE MINIMUM.
- ALL PROXIMAL WORK WITHIN 2.0m OF EXISTING METRO VANCOUVER WATERMANS MUST BE COMPLETED PRIOR TO APRIL 15, 2025. A REPRESENTATIVE MUST BE ON SITE DURING ALL MV PROXIMAL WORK. THE EXACT LOCATION OF THE EXISTING METRO VANCOUVER WATERMANS, COQ2 (1200mm) AND COQ3 (1800mm) IS NOT CONFIRMED. CONTRACTOR TO PRE-LOCATE AND CONFIRM LOCATION OF THE COQ2 & COQ3 BY HYDROVAC AND REPORT FINDINGS TO ENGINEER MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.
-

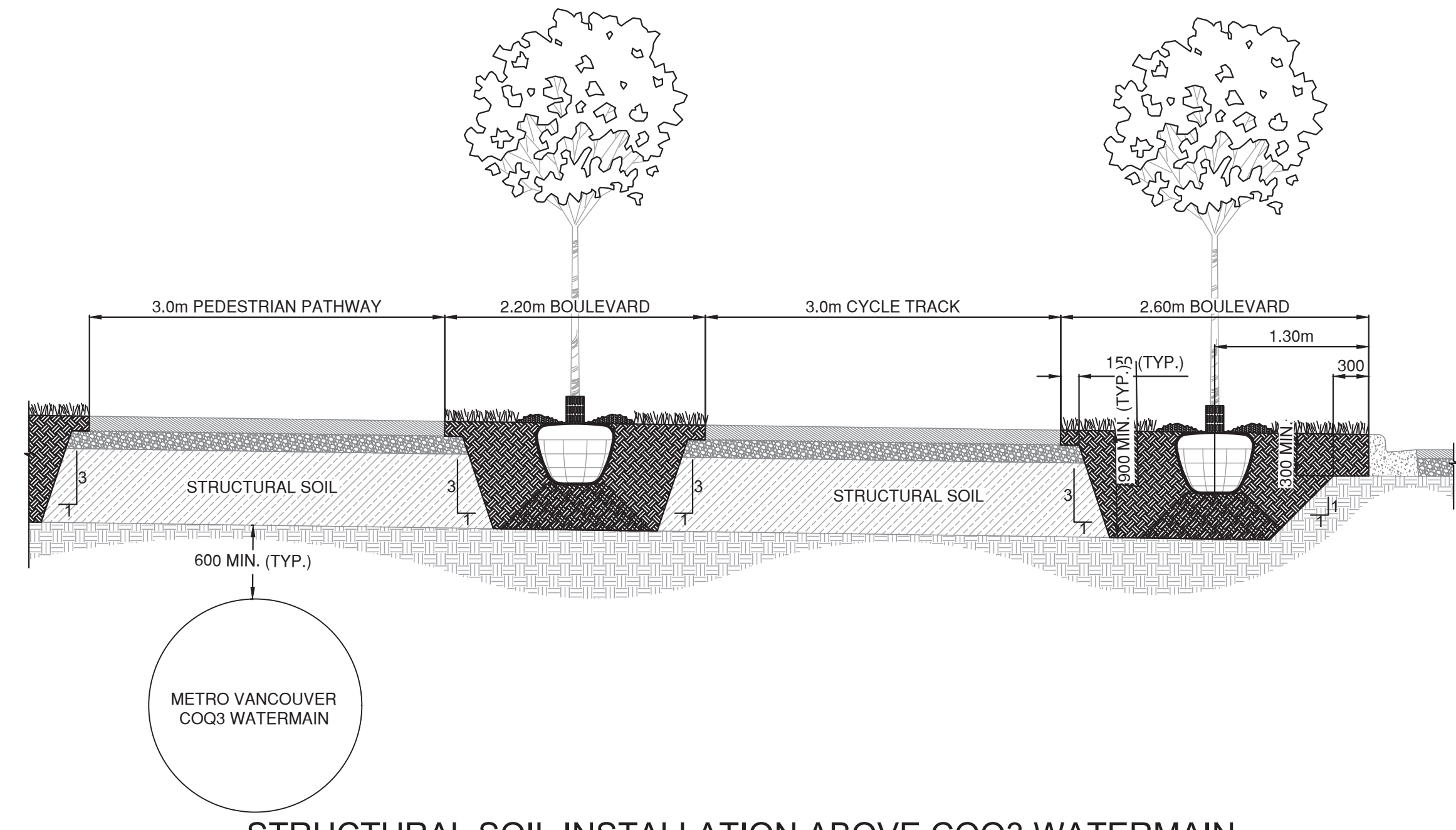
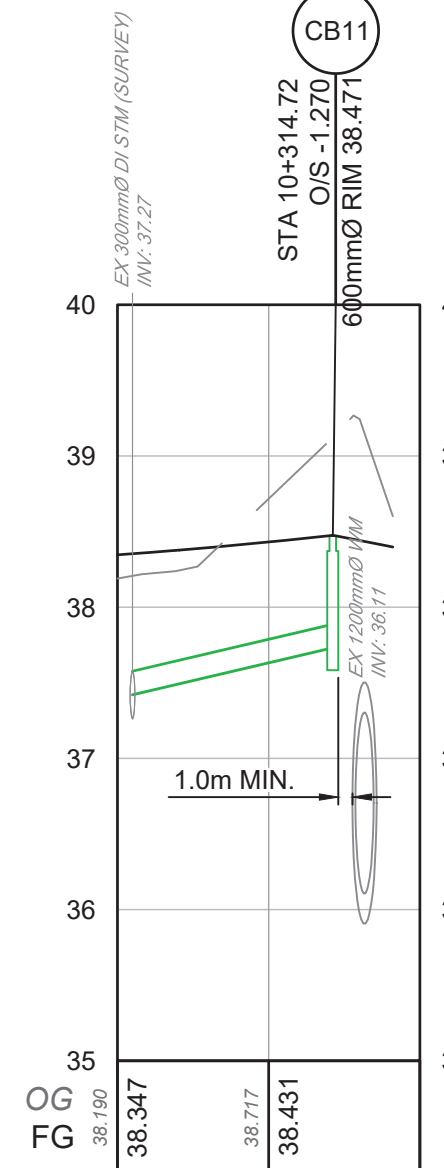
PROXIMAL SHEET SET (4 SHEETS):
ALL WORK SHOWN WITHIN PROFILES/SECTIONS IS TO BE COMPLETED BY THE PROXIMAL DEADLINE (REFER TO DATE IN CONTRACT)



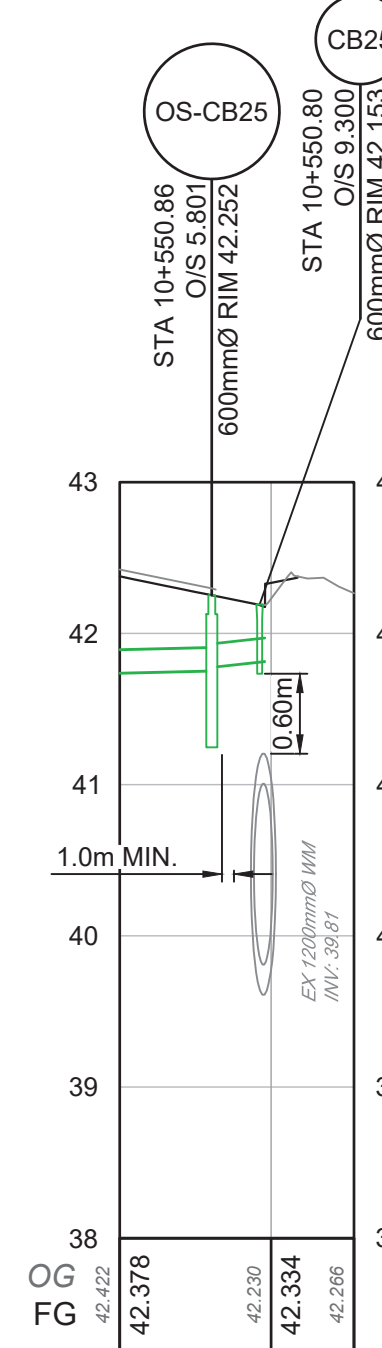
PLAN
SCALE 1:500



TYPICAL SUMP OFFSET FROM METROVAN WATERMAIN
NTS



STRUCTURAL SOIL INSTALLATION ABOVE COQ3 WATERMAIN
NTS



Permit to Practice
ISL Engineering and Land Services Ltd.
RR Signature: [Signature]
RR Elicits ID: 2221
Date: 2024-02-05
Permit Number 1000419
Engineers & Geoscientists British Columbia



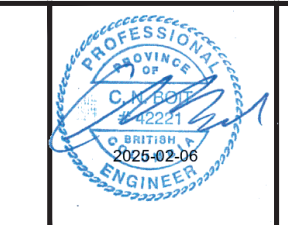
32524

PLOT DATE: February 6, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	ISSUED FOR REVIEW	2024/12/09	EH	CJB
B	ISSUED FOR ADDENDUM 1	2025/02/05	PM	CJB

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

CROSSING PIPELINE ROAD
METROVAN CROSSING - DRAINAGE UTIL 1



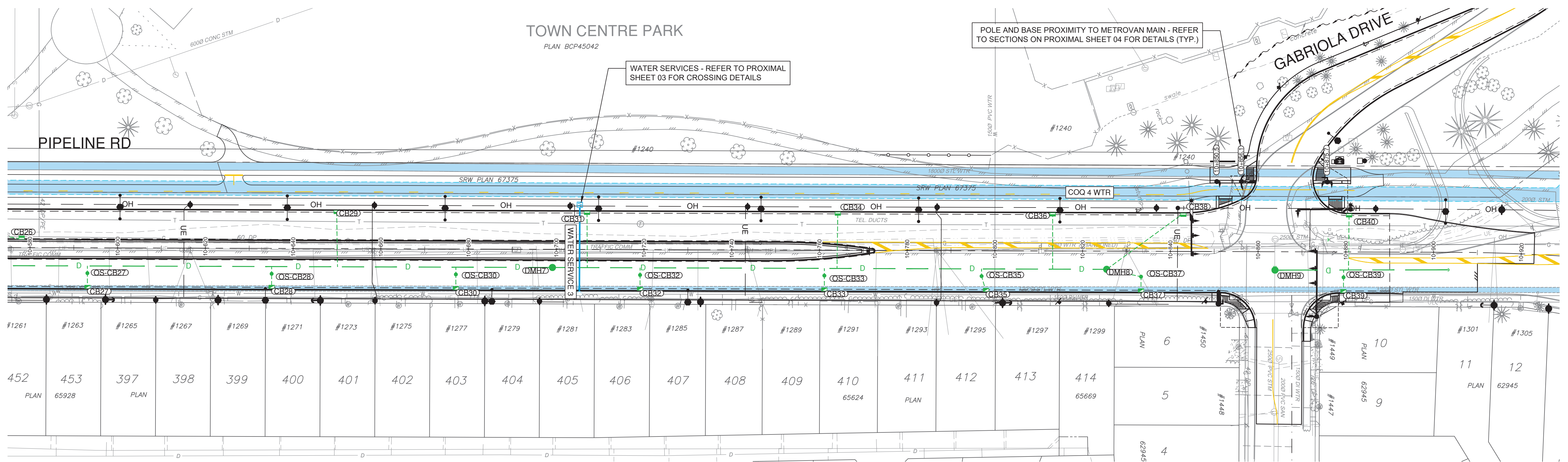
ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2596 F: (604)629-2598

SCALE	AS SHOWN	CREATION DATE	2024/12/09	DWG. NO.
DRAWN BY	PM	DESIGN BY	CJB	01 OF 04
CHECKED BY	CJB	APPROVED BY	CJB	REV. B

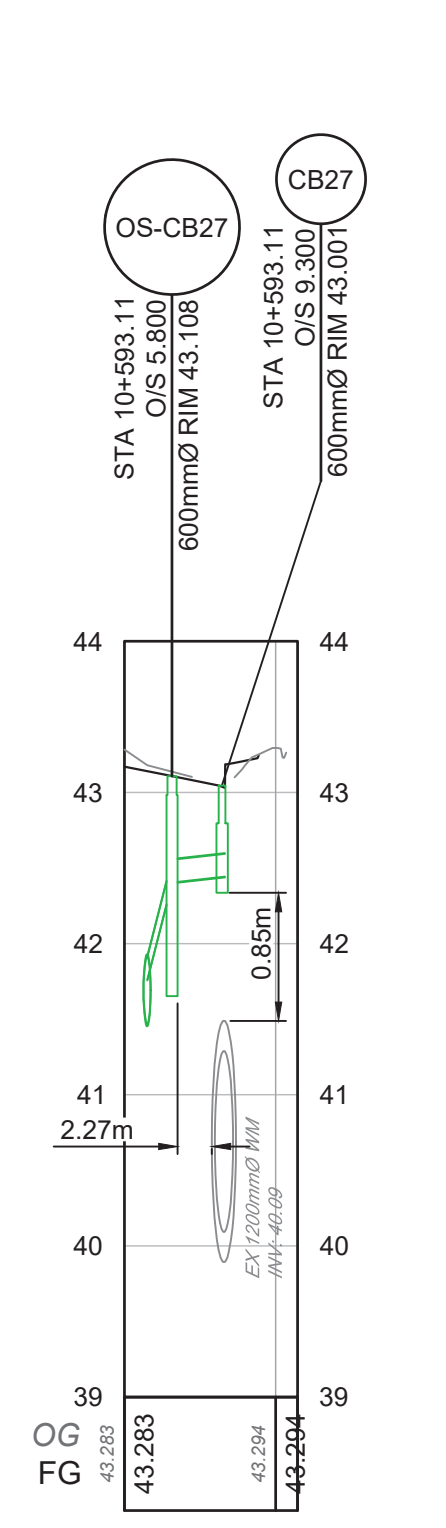
IMPORTANT:

- SCOPE AND EXPOSE EX. UTILITIES/SERVICES, AND RECORD LOCATION, SIZE & INVERT ELEVATIONS AT PROP. OR POTENTIAL CROSSINGS PRIOR TO CONSTRUCTION. THE AS-BUILT UNDERGROUND INFORMATION SHOWN ON THIS DRAWING IS DERIVED FROM COMBINATION OF SURVEY AND RECORD DRAWINGS AND REQUIRE CONFIRMATION OF LOCATION PRIOR TO CONSTRUCTION.
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- ALL PROXIMAL WORK WITHIN 2.0m OF EXISTING METRO VANCOUVER WATERMANS MUST BE COMPLETED PRIOR TO APRIL 15, 2025. A REPRESENTATIVE MUST BE ON SITE DURING ALL MV PROXIMAL WORK. THE EXACT LOCATION OF THE EXISTING METRO VANCOUVER WATERMANS, COQ2 (1200mm) AND COQ3 (1800mm) IS NOT CONFIRMED. CONTRACTOR TO PRE-LOCATE AND CONFIRM LOCATION OF THE COQ2 & COQ3 BY HYDROVAC AND REPORT FINDINGS TO ENGINEER MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.
-

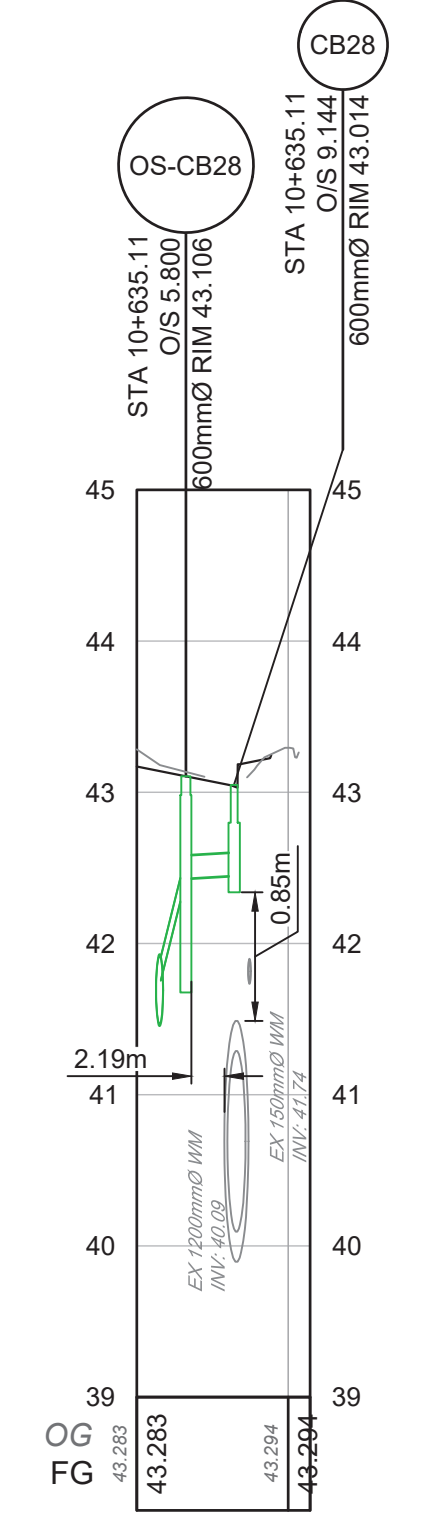
PROXIMAL SHEET SET (4 SHEETS): ALL WORK SHOWN WITHIN PROFILES/SECTIONS IS TO BE COMPLETED BY THE PROXIMAL DEADLINE (REFER TO DATE IN CONTRACT)



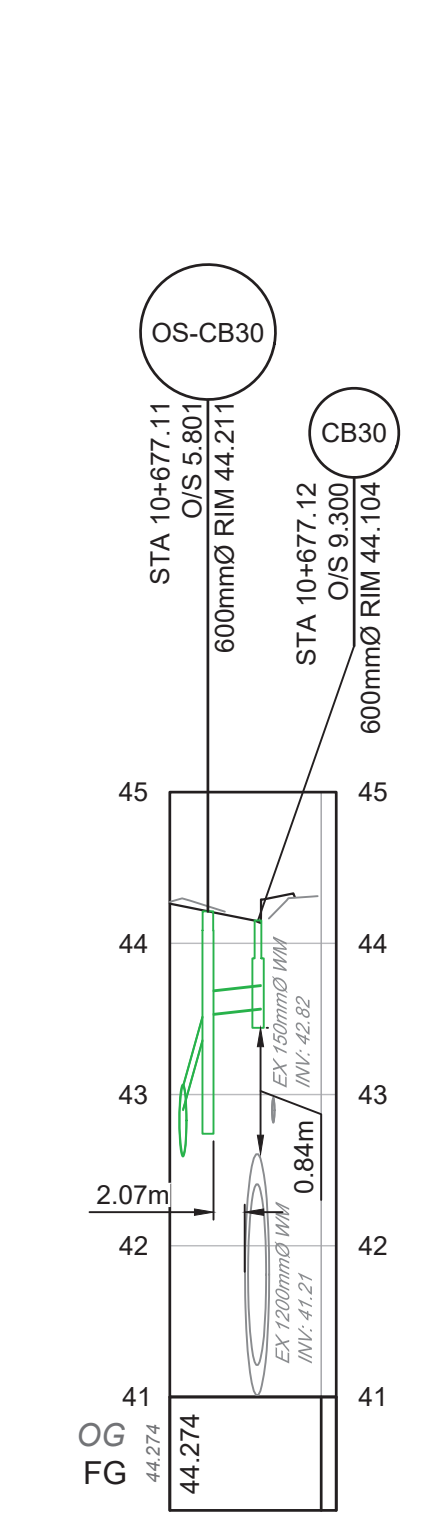
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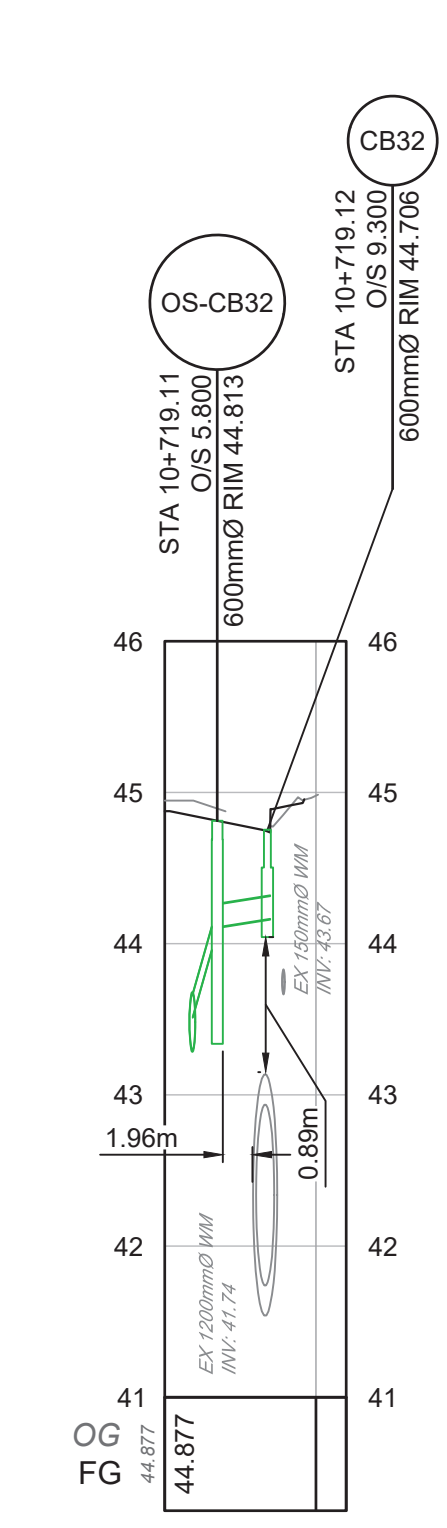
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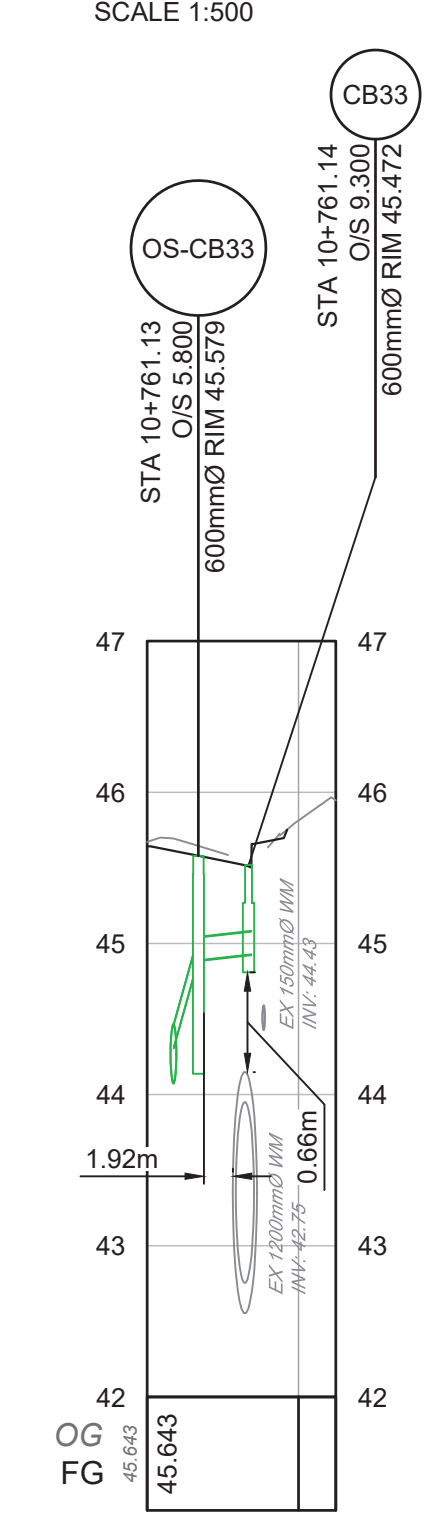
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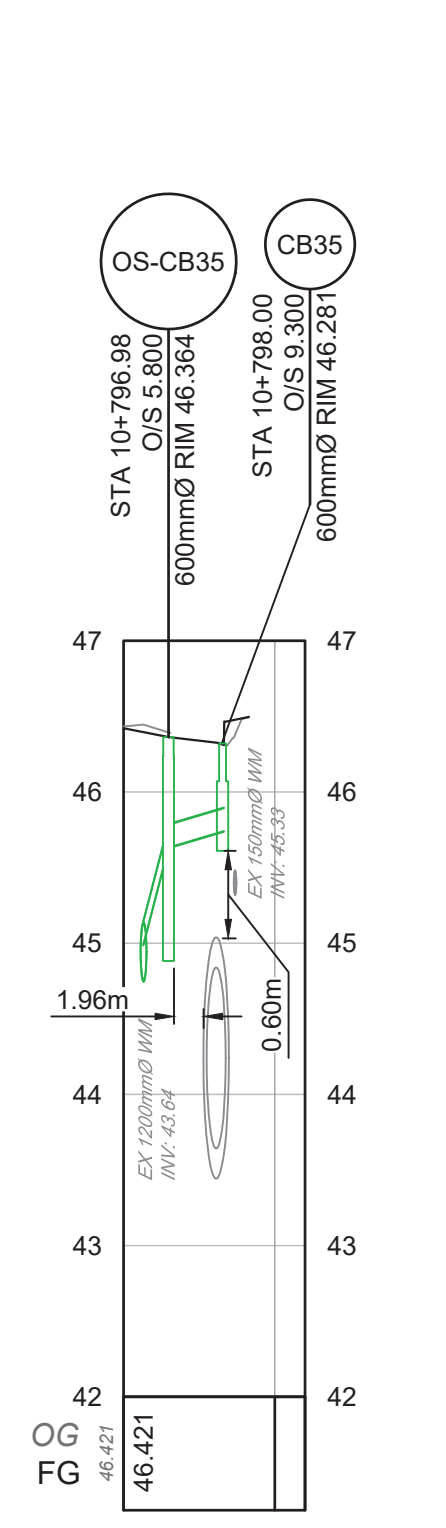
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SCALE 1:500H / 1:50V



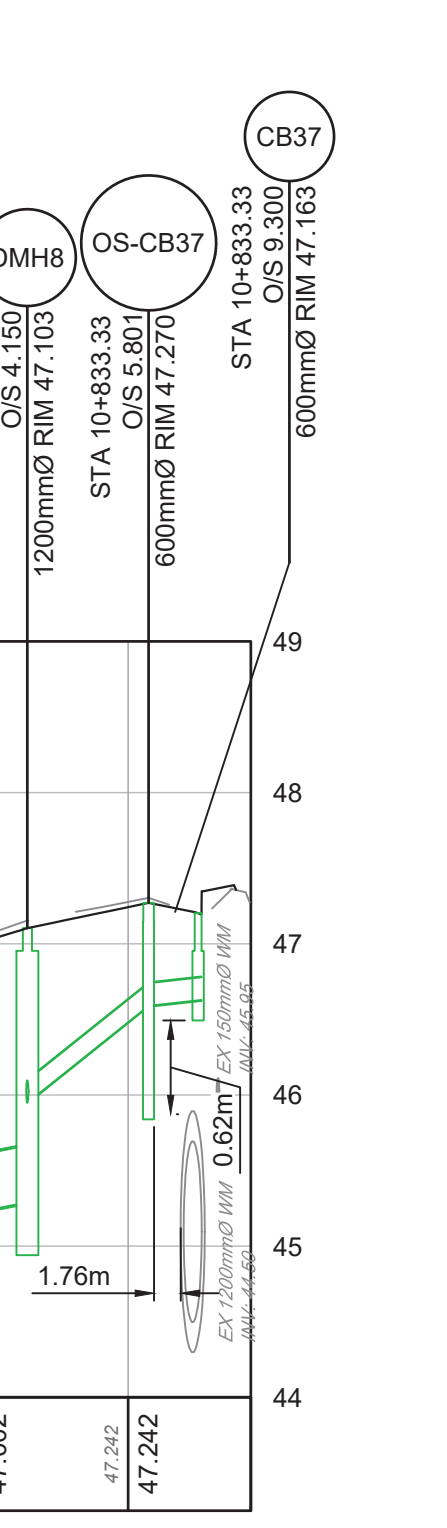
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SCALE 1:500H / 1:50V



PROFILE - OS-CB33
SCALE 1:500H / 1:50V



PROFILE - OS-CB35
SCALE 1:500H / 1:50V



PROFILE - OS-CB37
SCALE 1:500H / 1:50V



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PLOT DATE: February 6, 2025

REV NO	REVISIONS	DATE	DRAWN	APPR'D
A	ISSUED FOR REVIEW	2024/12/09	EH	CJB
B	ISSUED FOR ADDENDUM 1	2025/02/05	PM	CJB



CROSSING
PIPELINE ROAD
METROVAN CROSSING - DRAINAGE UTIL 2



#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604) 629-2596 F: (604) 629-2598

SCALE		AS SHOWN		CREATION DATE		2024/12/09		DWG. NO.	
DRAWN BY		PM		DESIGN BY		CJB		02 OF 04	
CHECKED BY		CJB		APPROVED BY		CJB		REV. B	

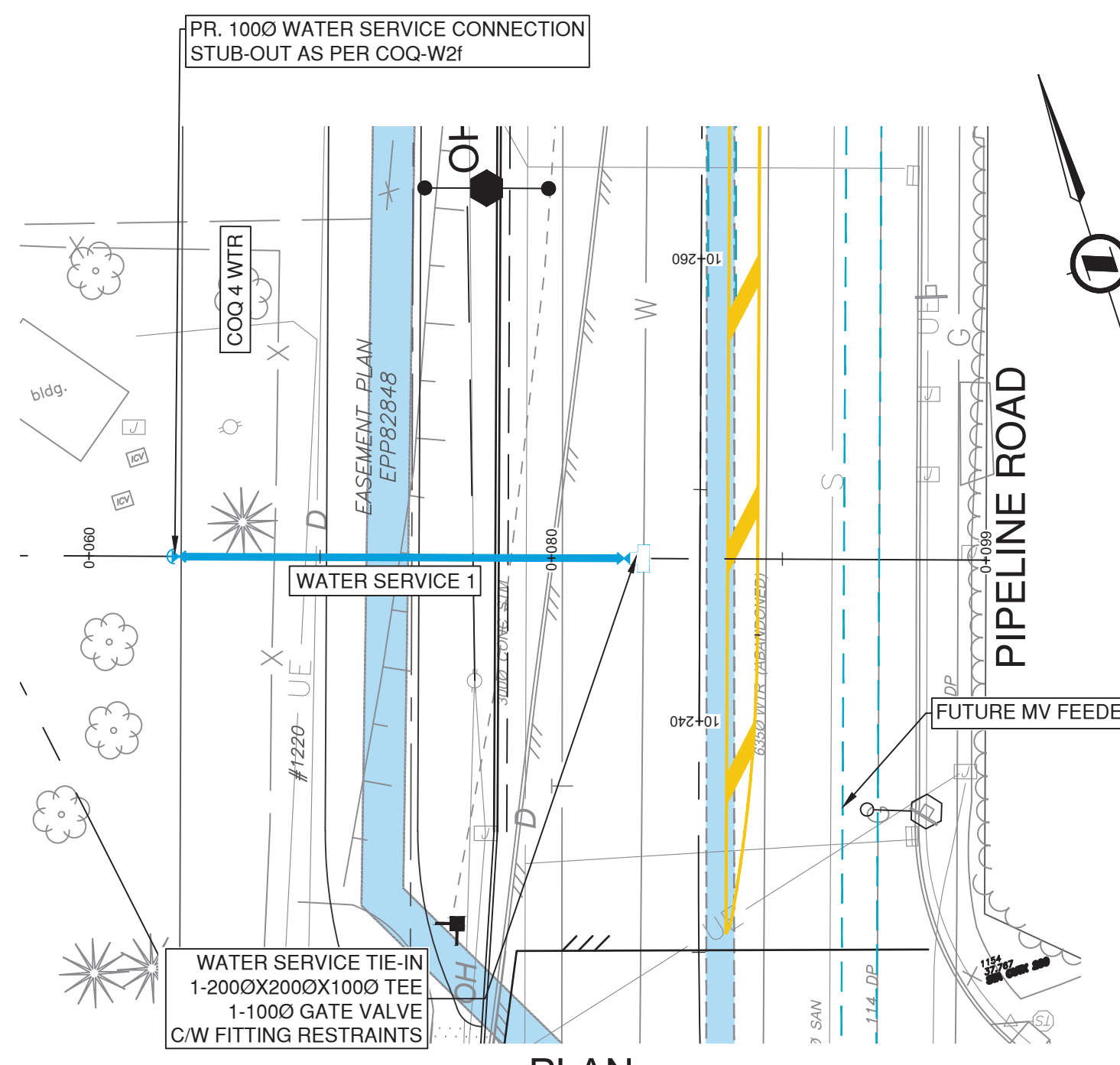
IFT DESIGN NO. **32524**

DESTROY ALL PRINTS BEARING PREVIOUS NO.

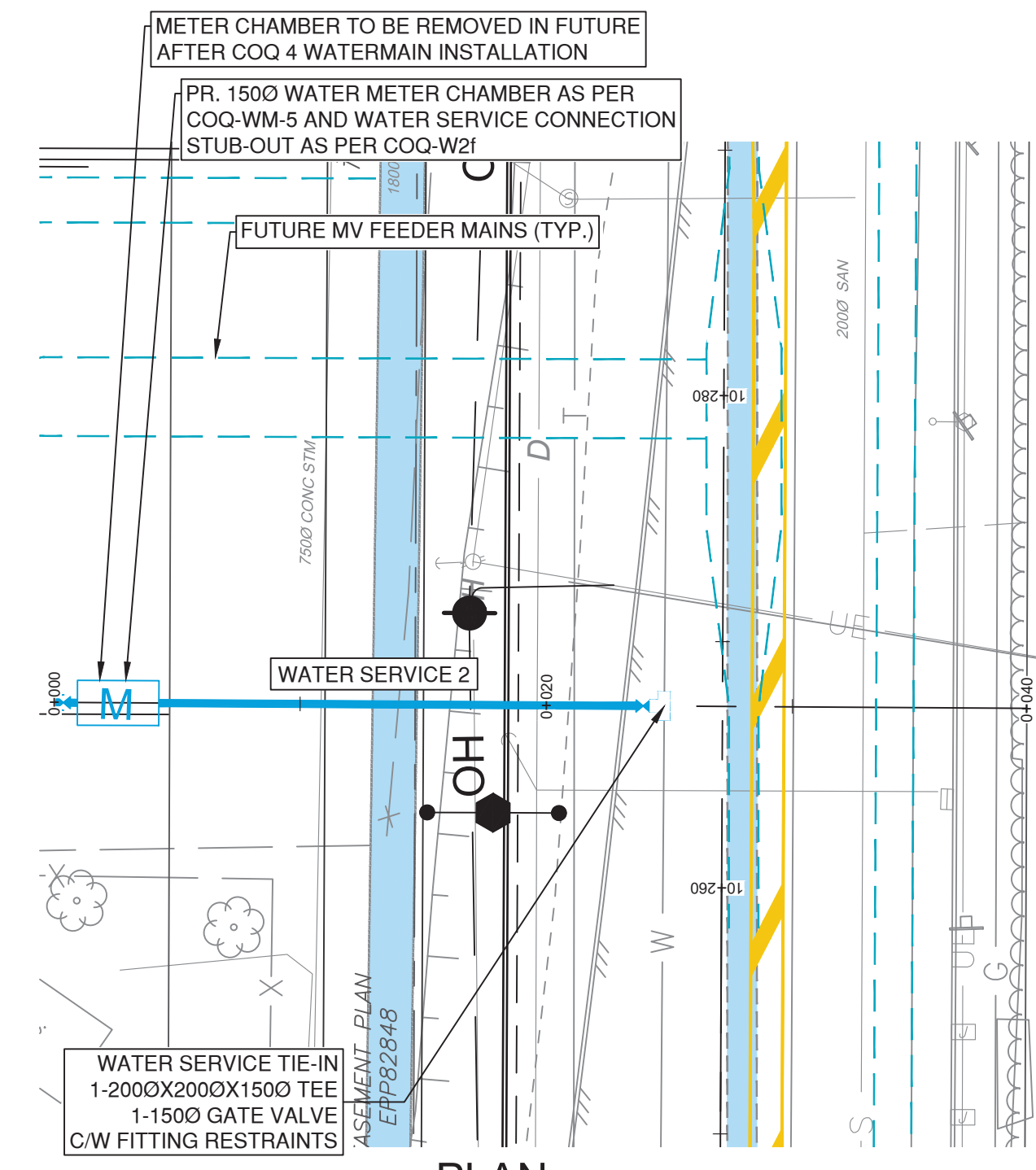
IMPORTANT:
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PROXIMAL SHEET SET (4 SHEETS):
 ALL WORK SHOWN WITHIN PROFILES/SECTIONS IS TO BE COMPLETED BY THE PROXIMAL DEADLINE (REFER TO DATE IN CONTRACT)

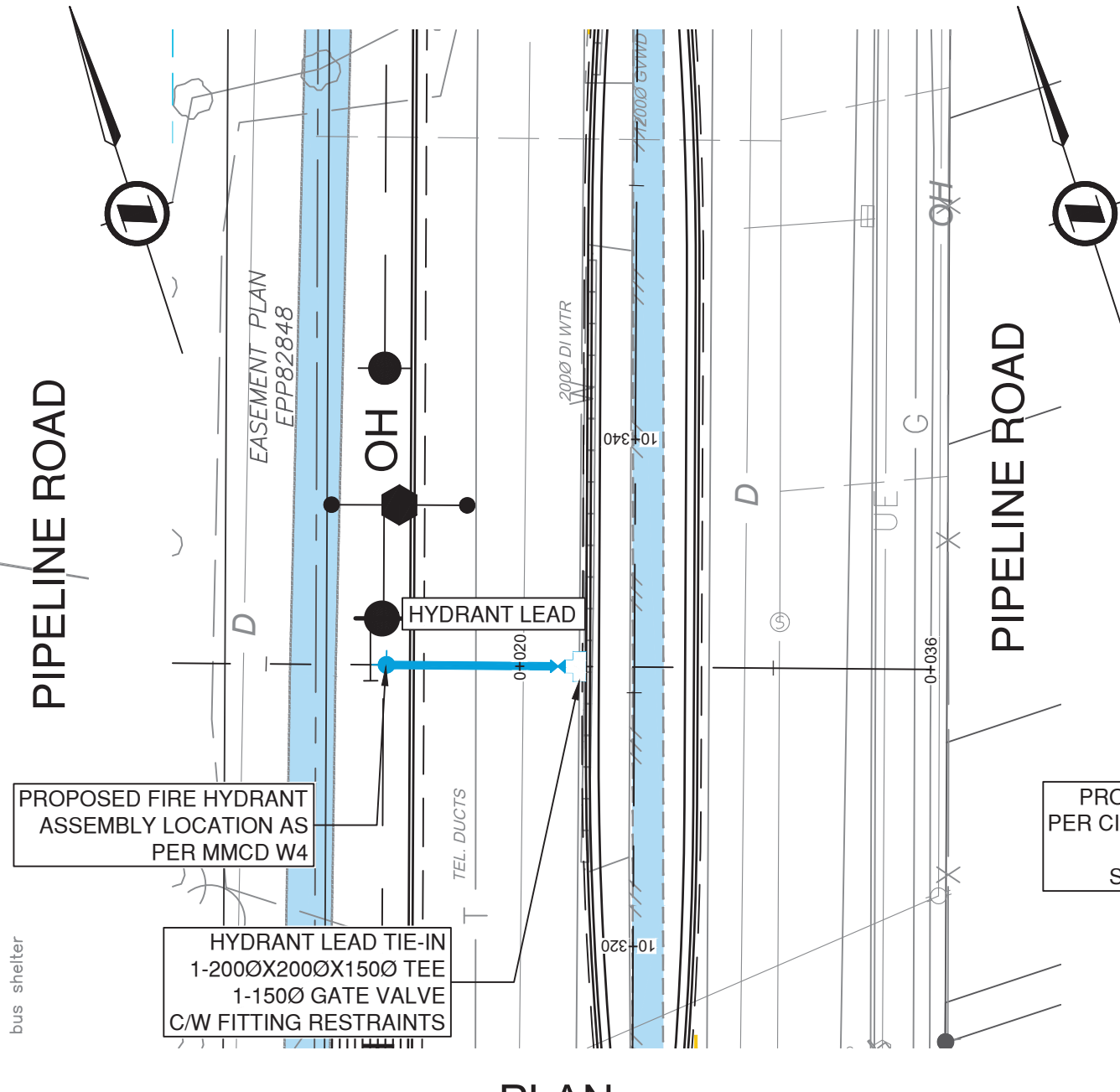
WATERMAIN NOTES:
 1) ALL WATERMAIN JOINTS AND FITTINGS TO BE RESTRAINED
 2) CONTRACTOR TO HAVE PROPER SLOPE AND TRENCH SUPPORT IN PLACE DURING WORKS AROUND COQ2 WATERMAIN TO ENSURE COQ2 SUPPORT IS NOT COMPROMISED



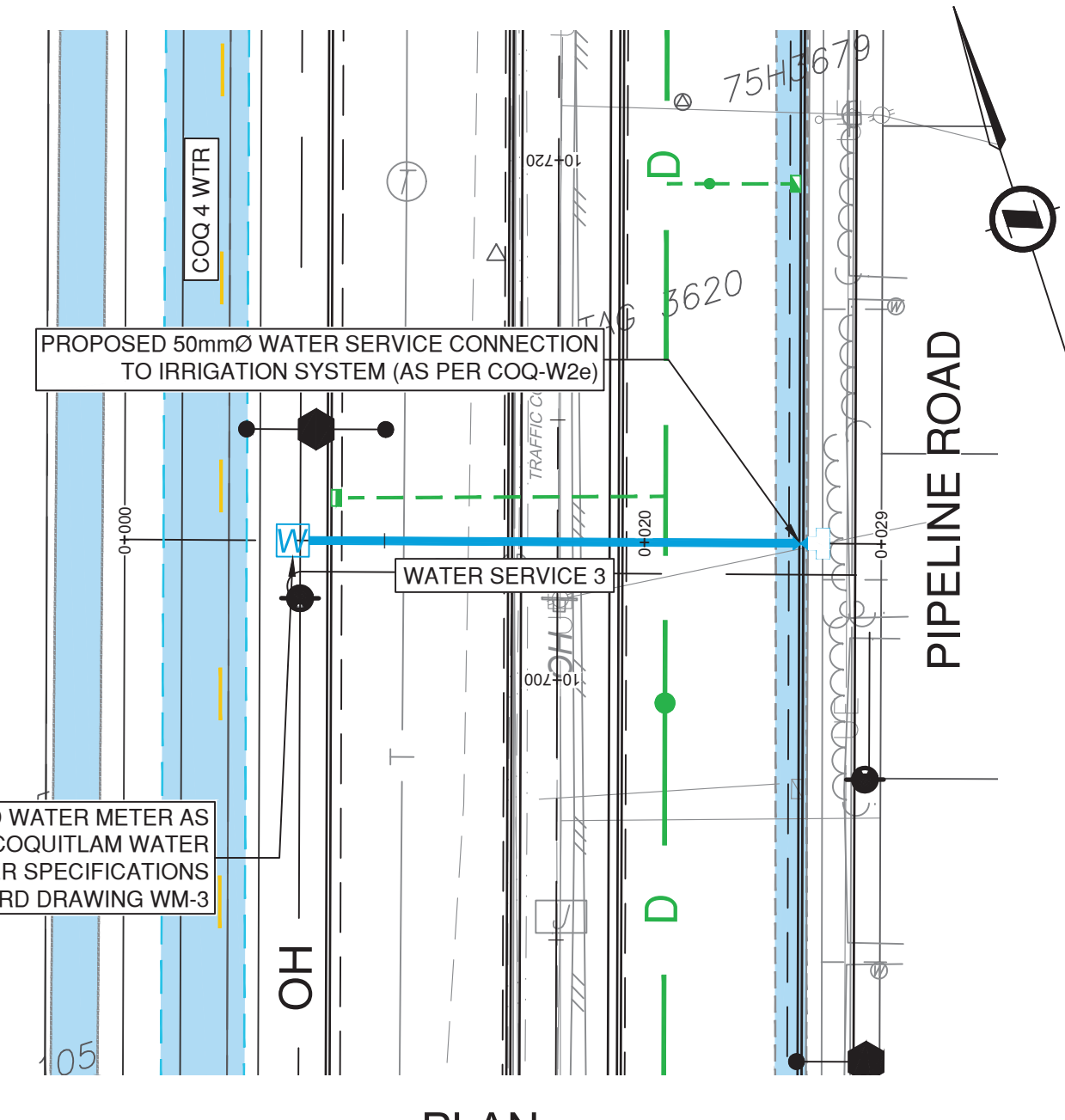
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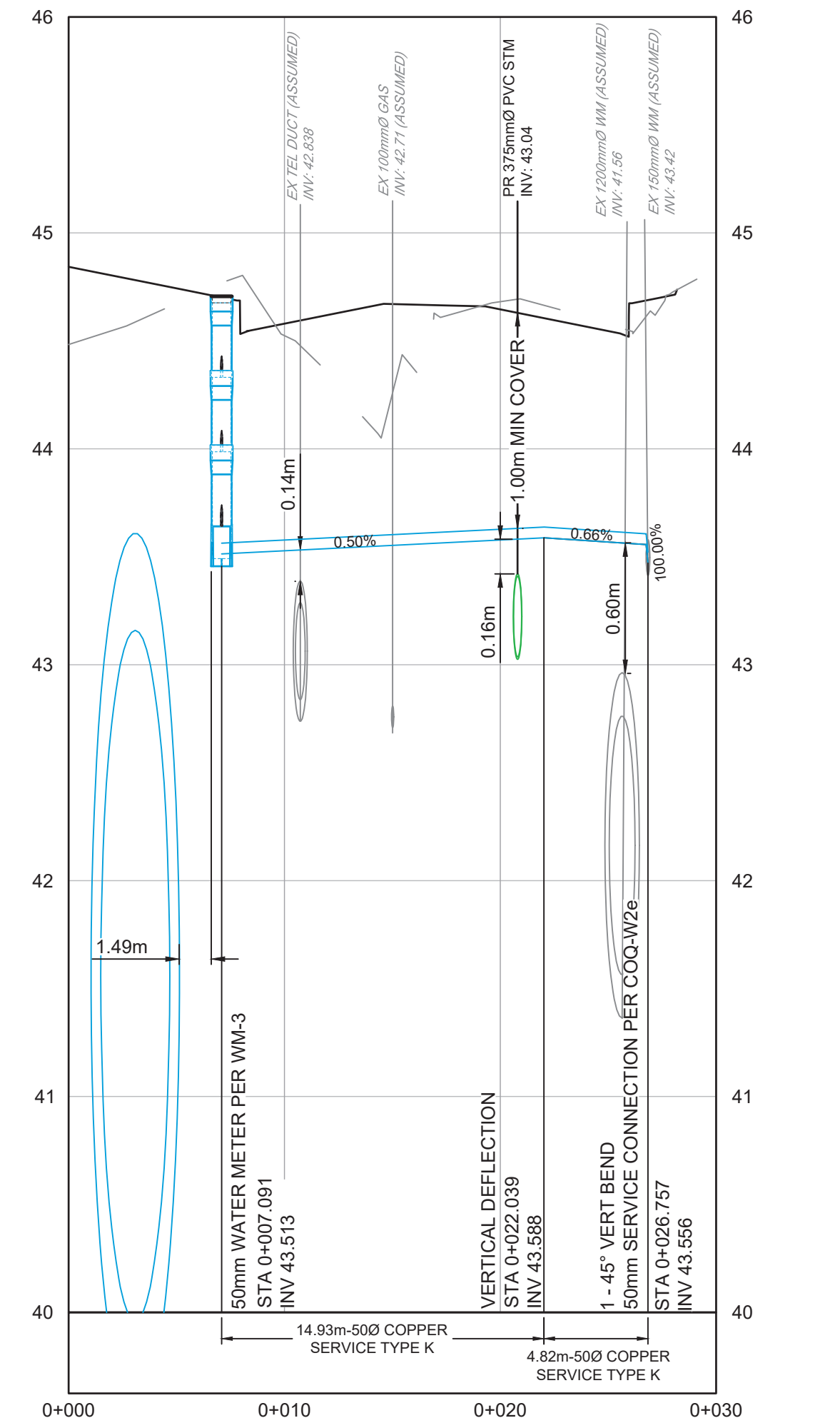
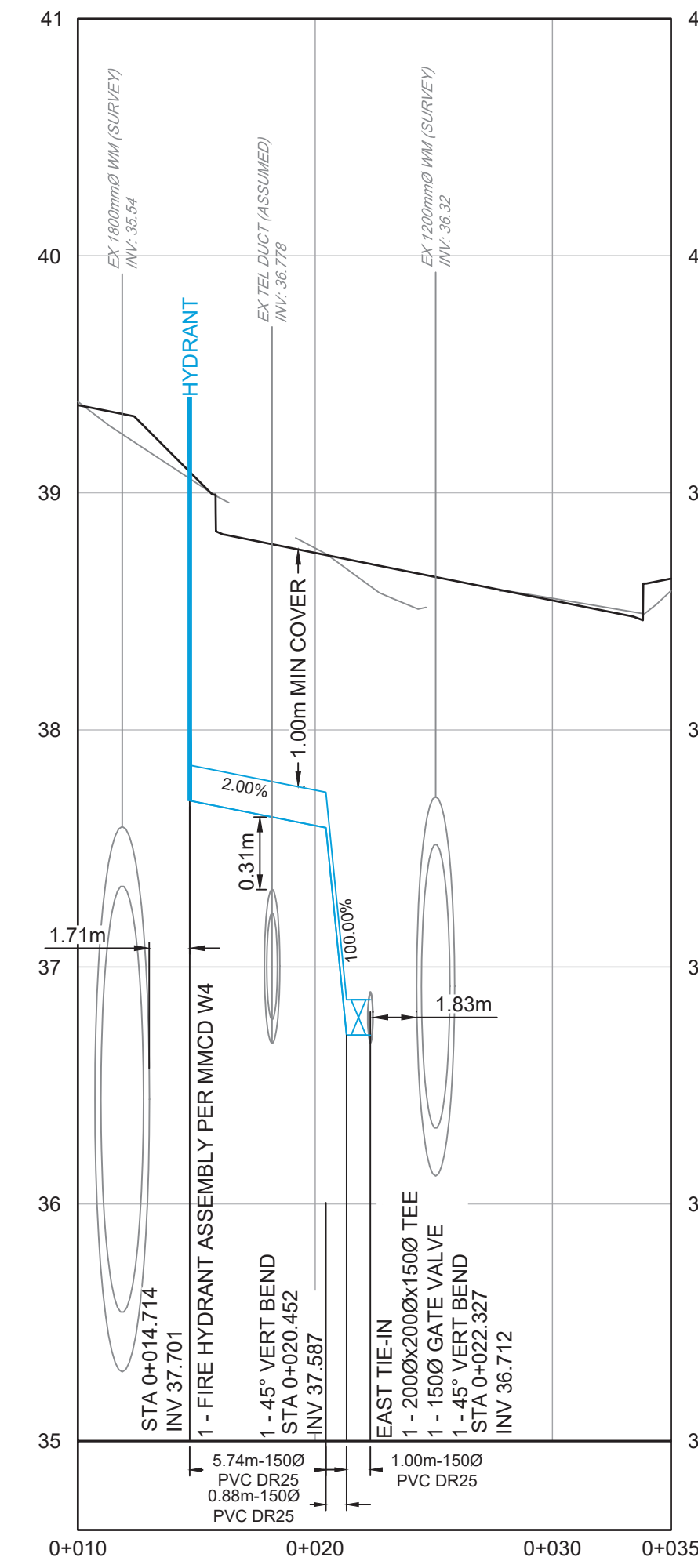
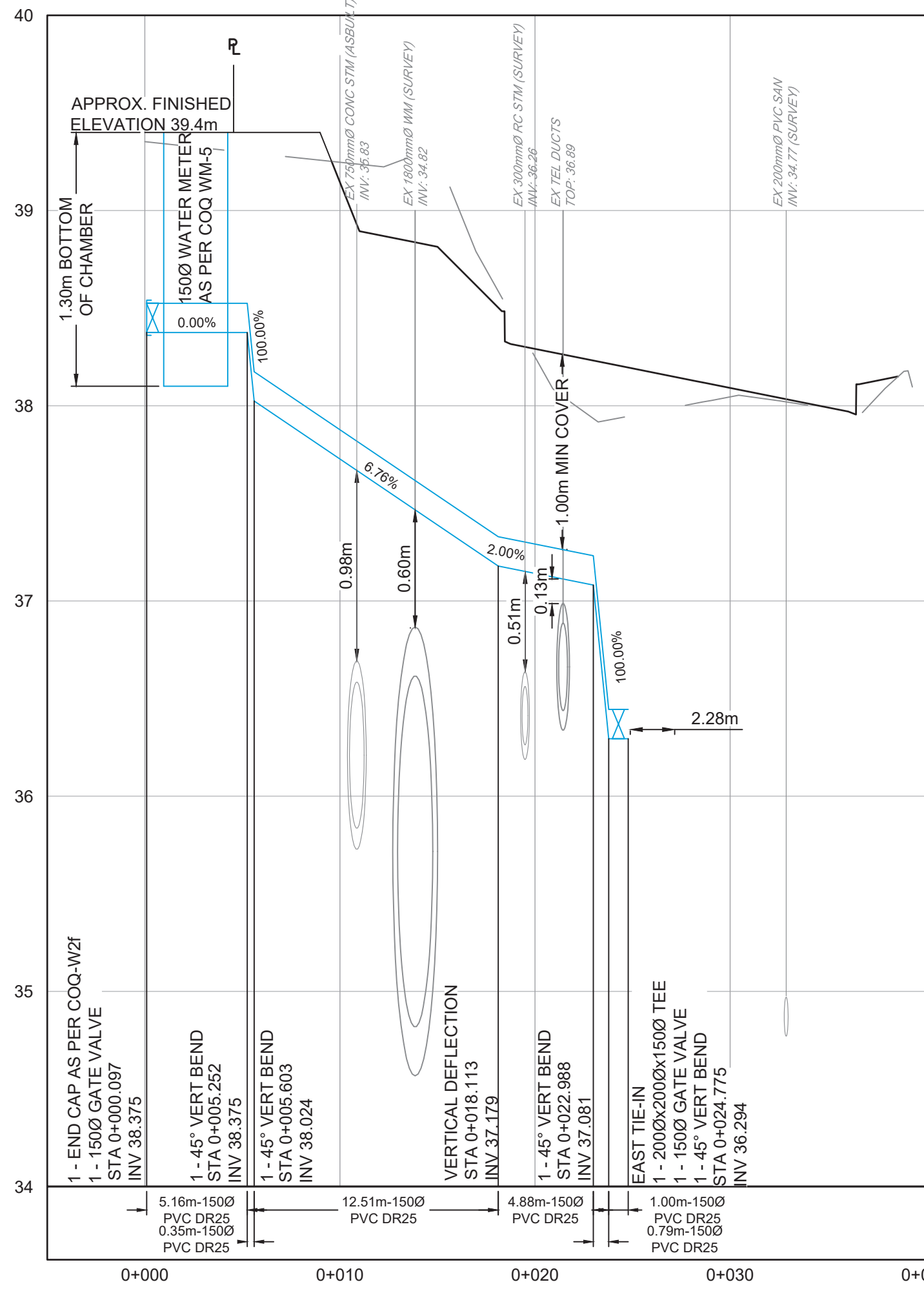
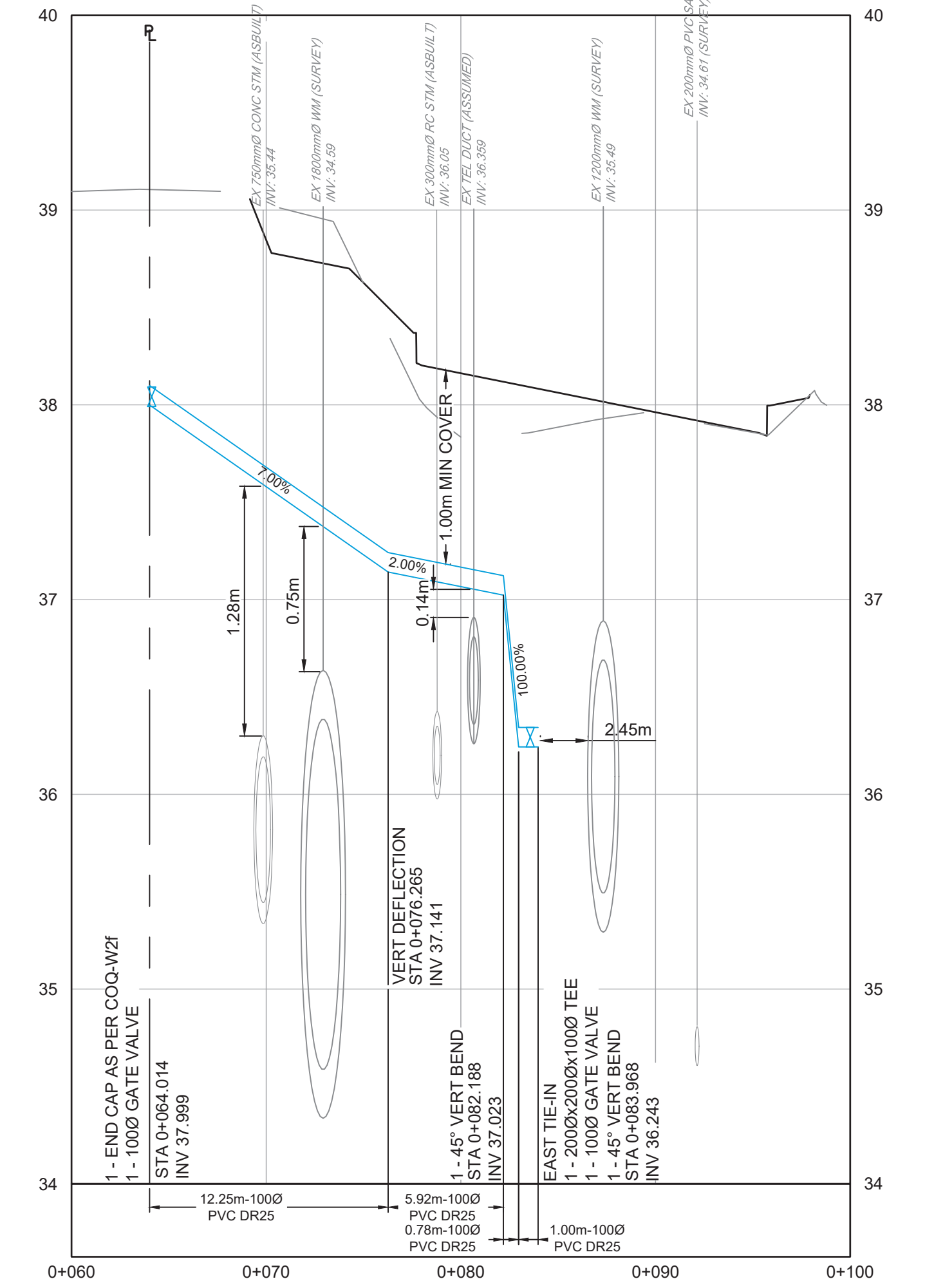
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PLAN SCALE 1:250



PLAN SCALE 1:250



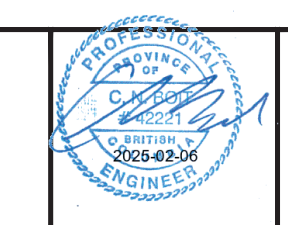
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PLOT DATE: February 6, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
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B	ISSUED FOR ADDENDUM 1	2025/02/05	PM	CJB



CROSSING PIPELINE ROAD
 METROVAN CROSSING - WATER SERVICES

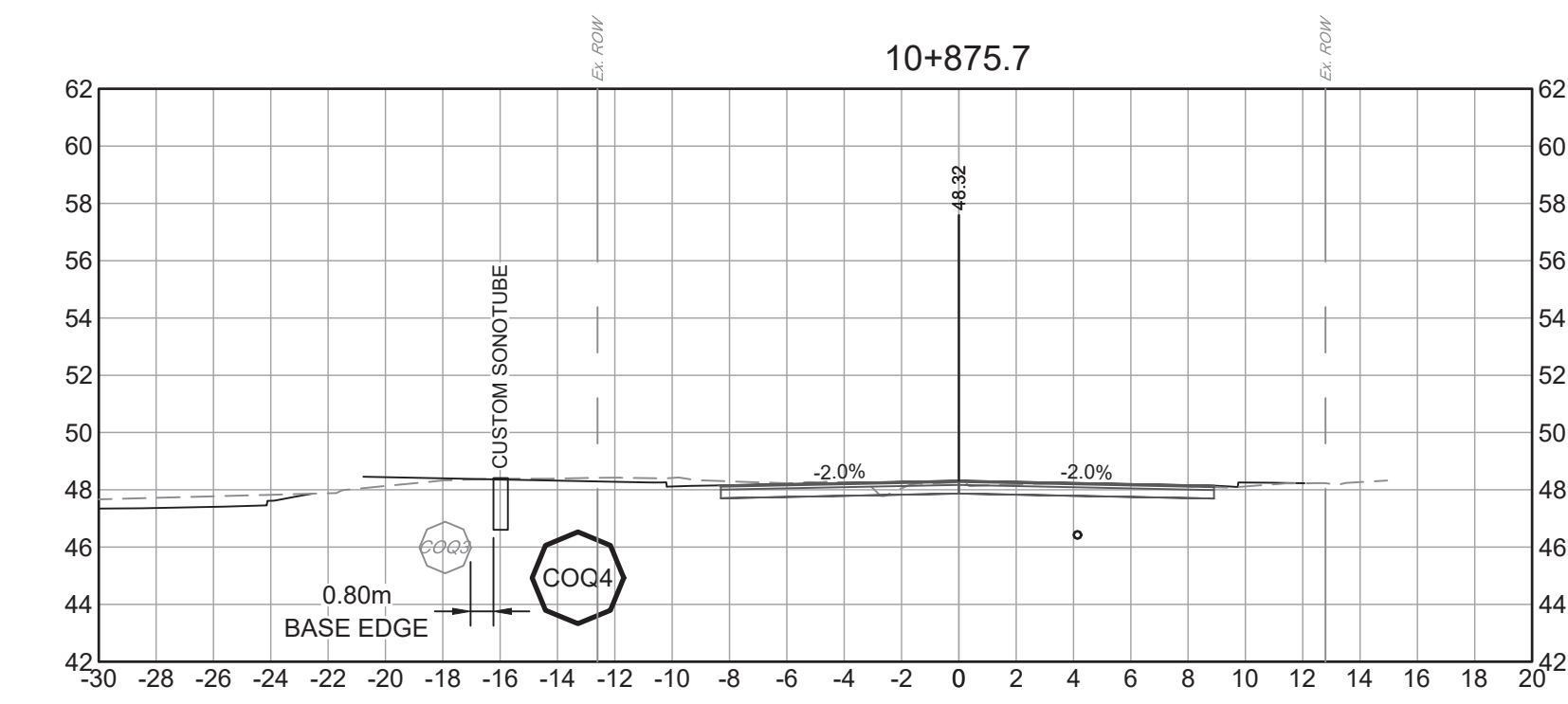
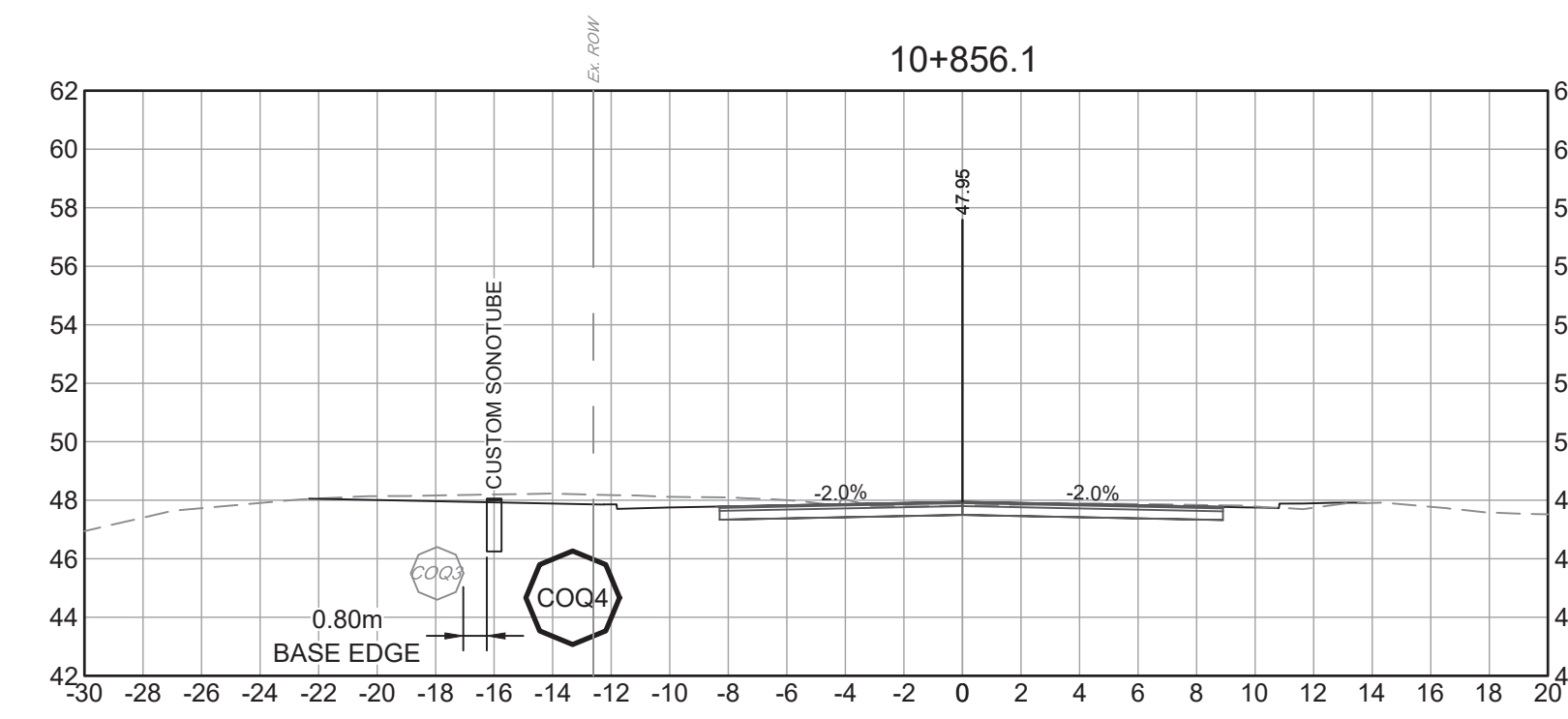
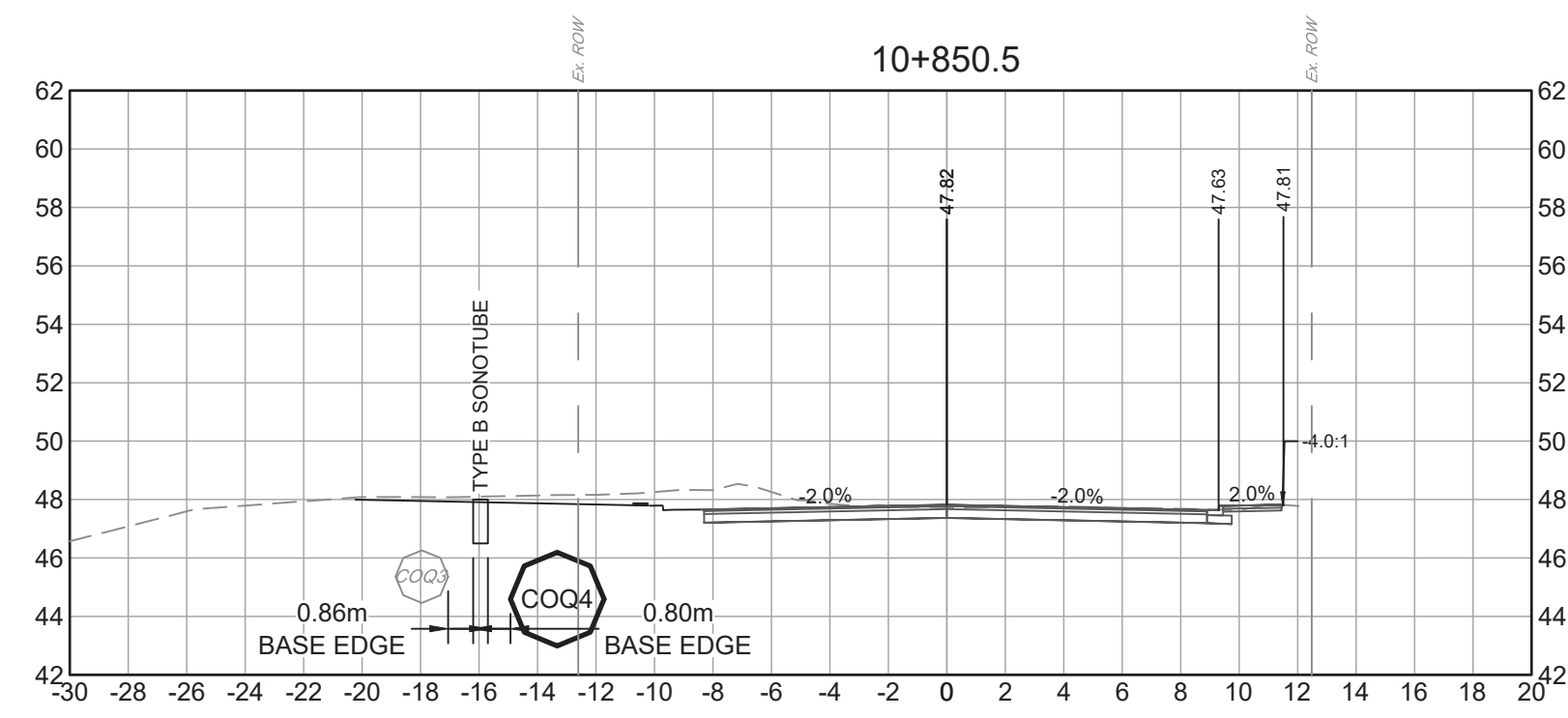
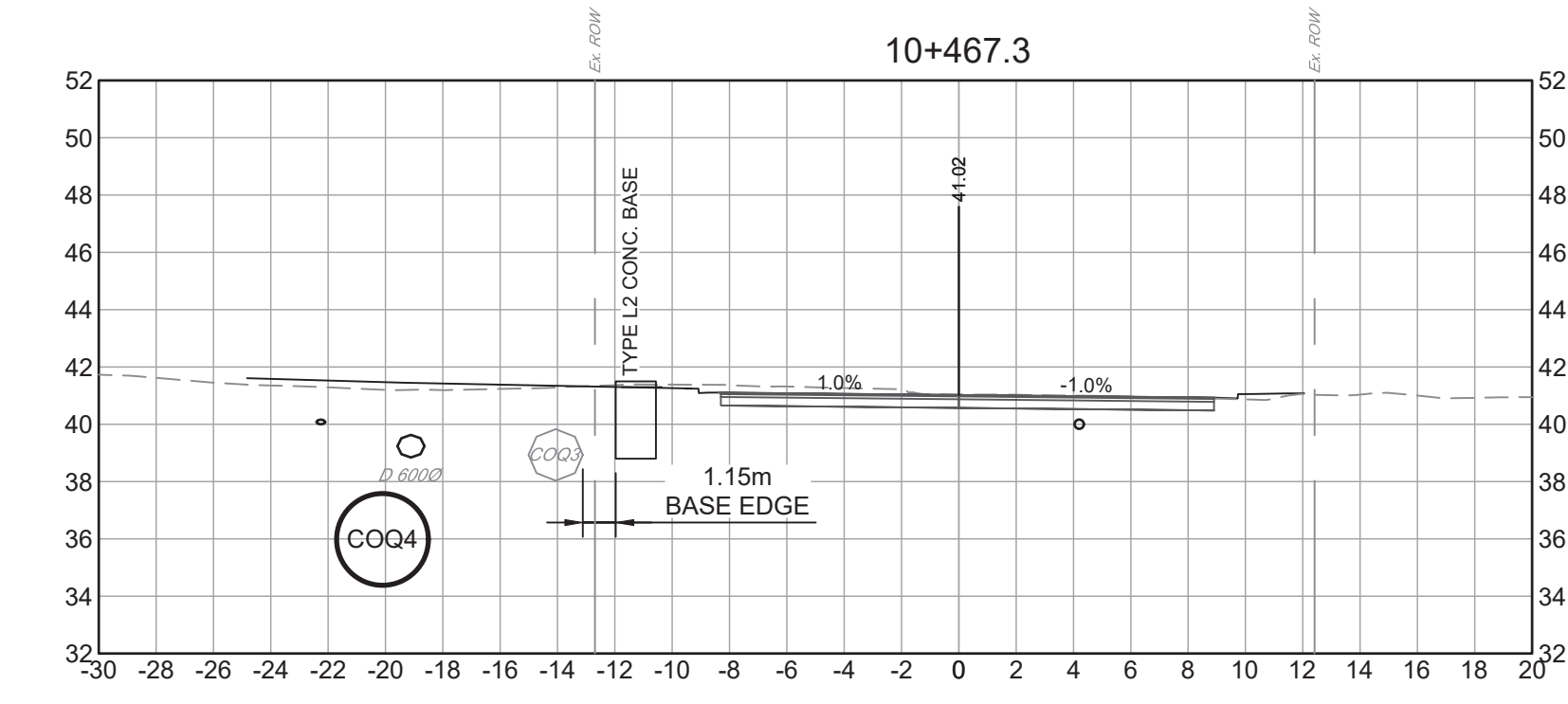
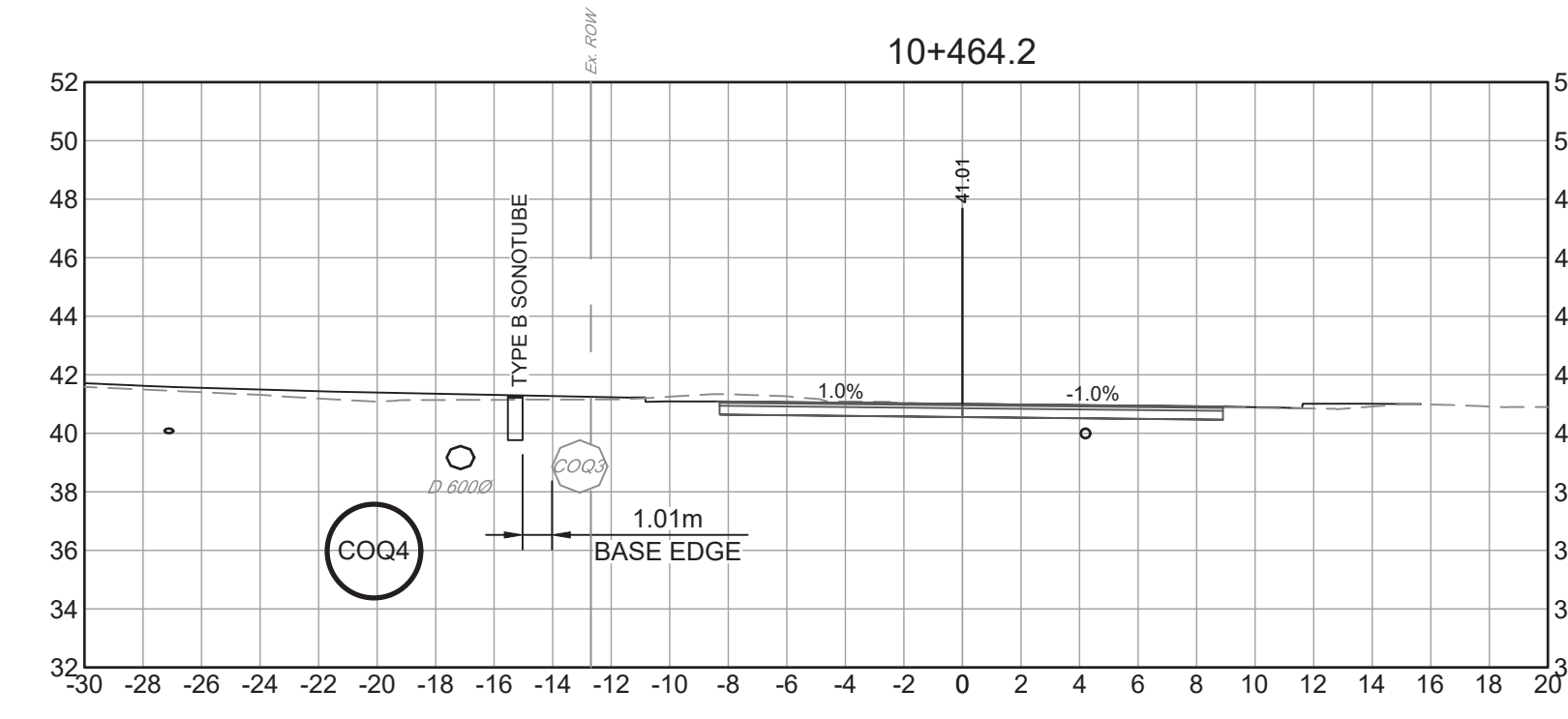
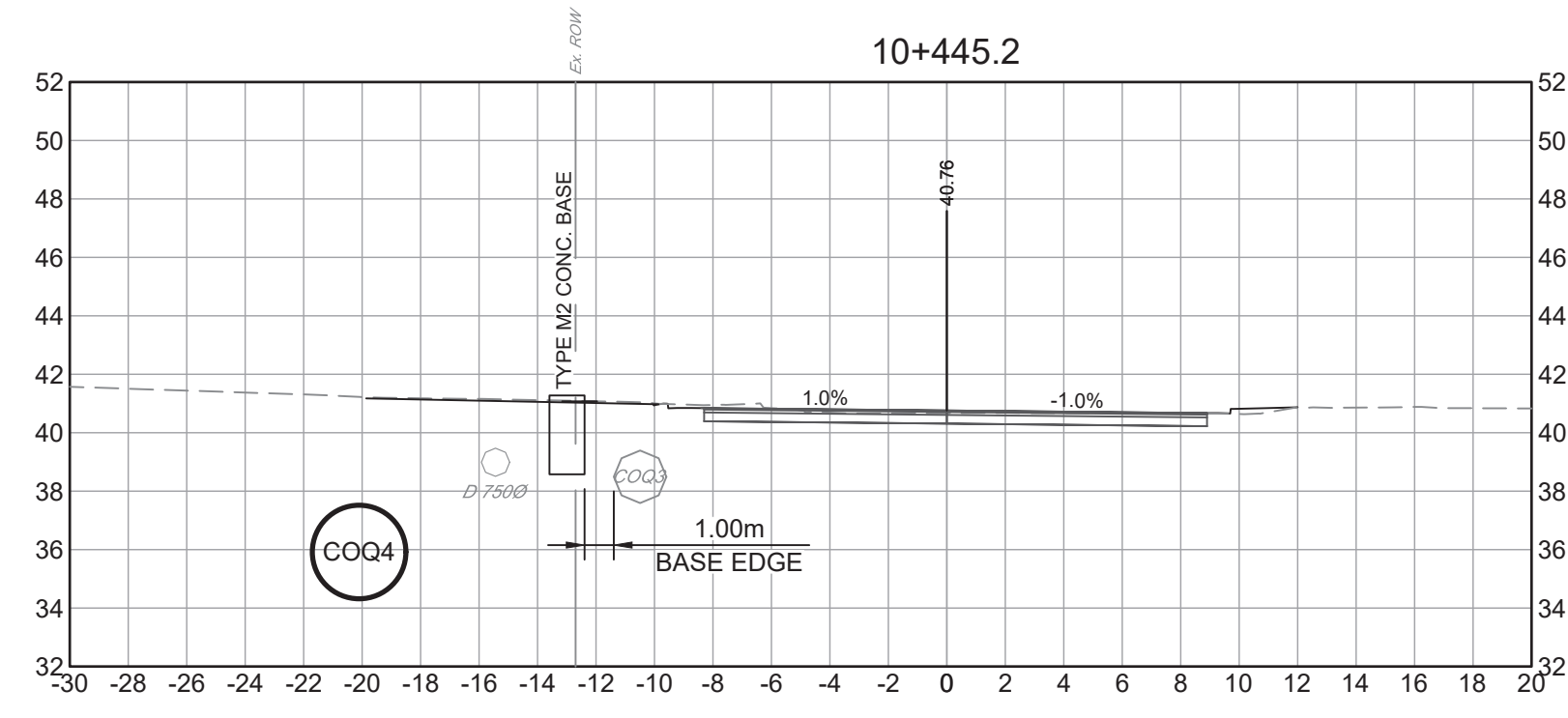
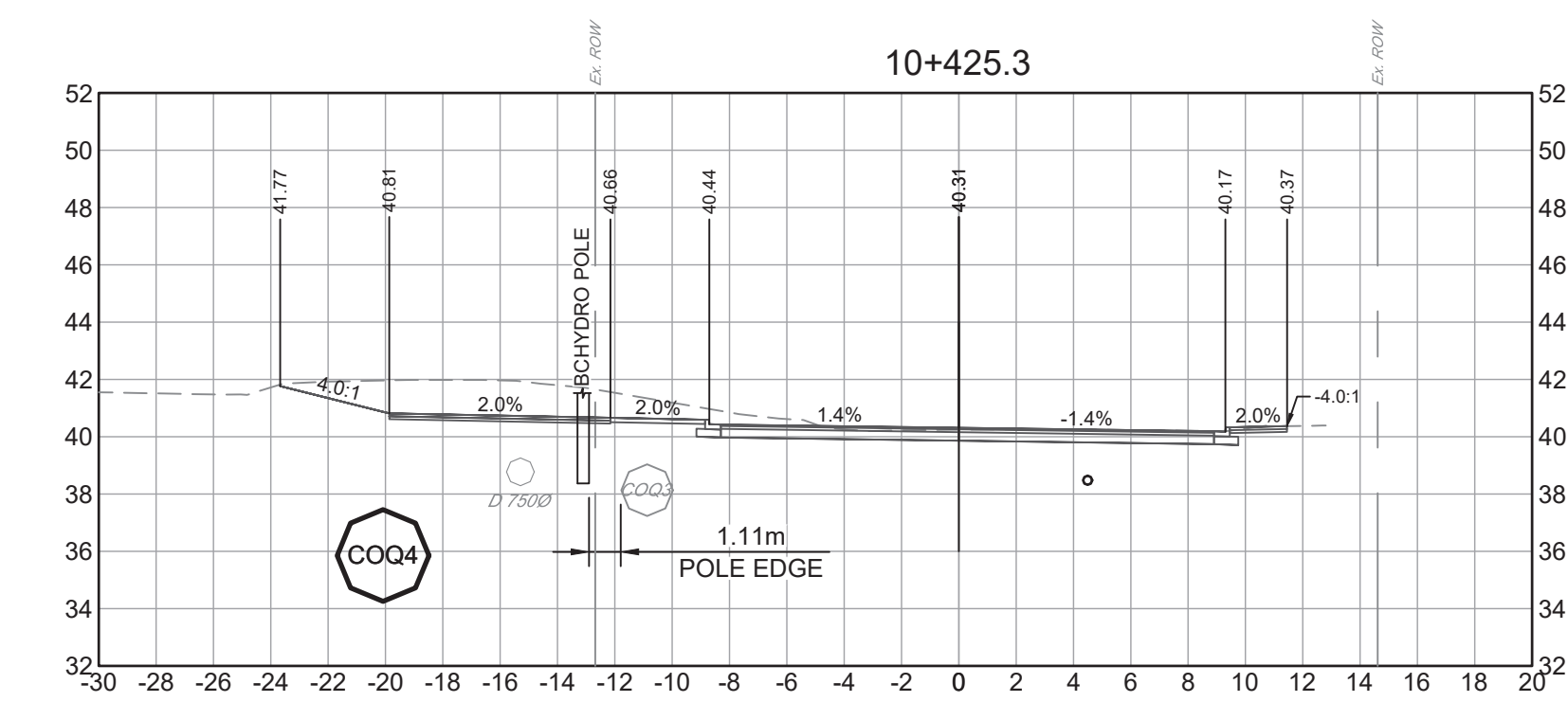
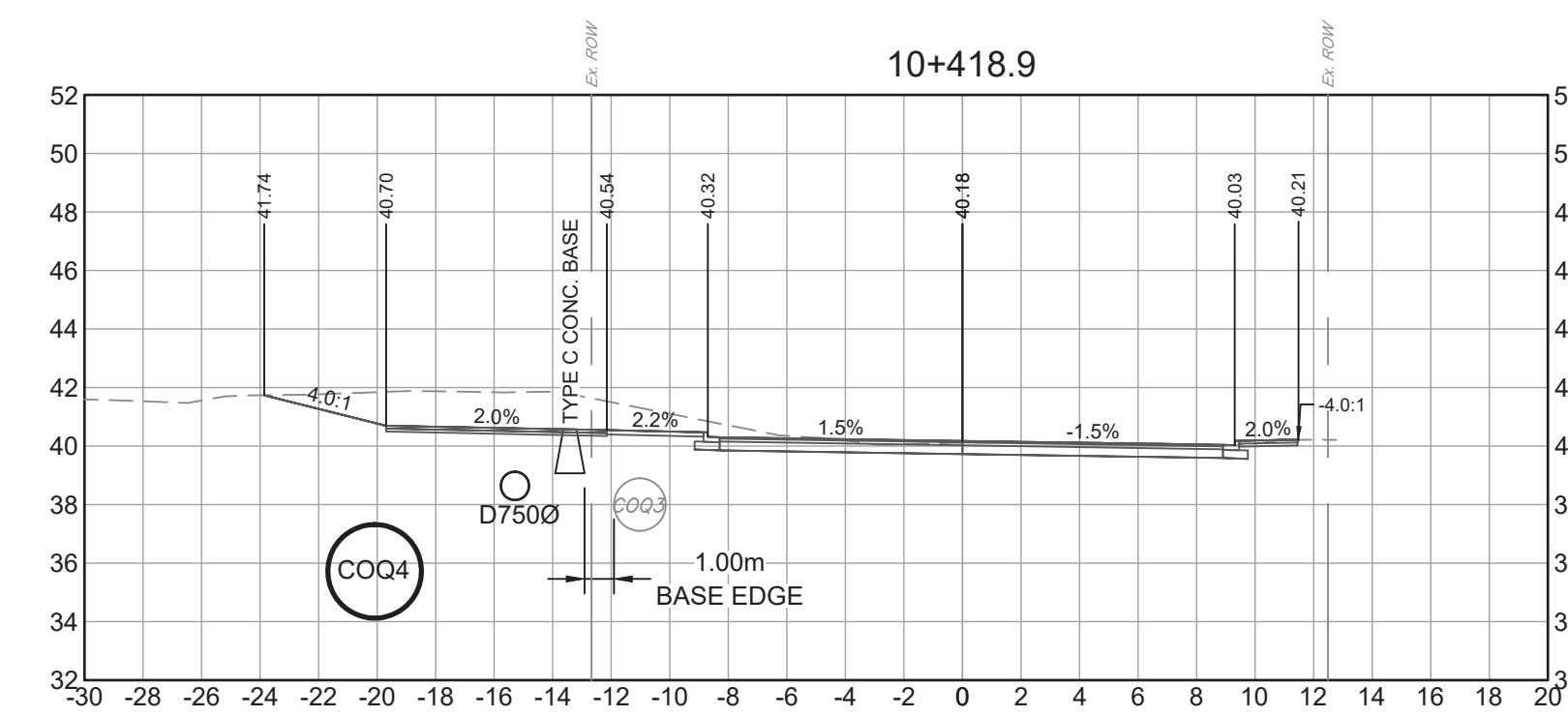
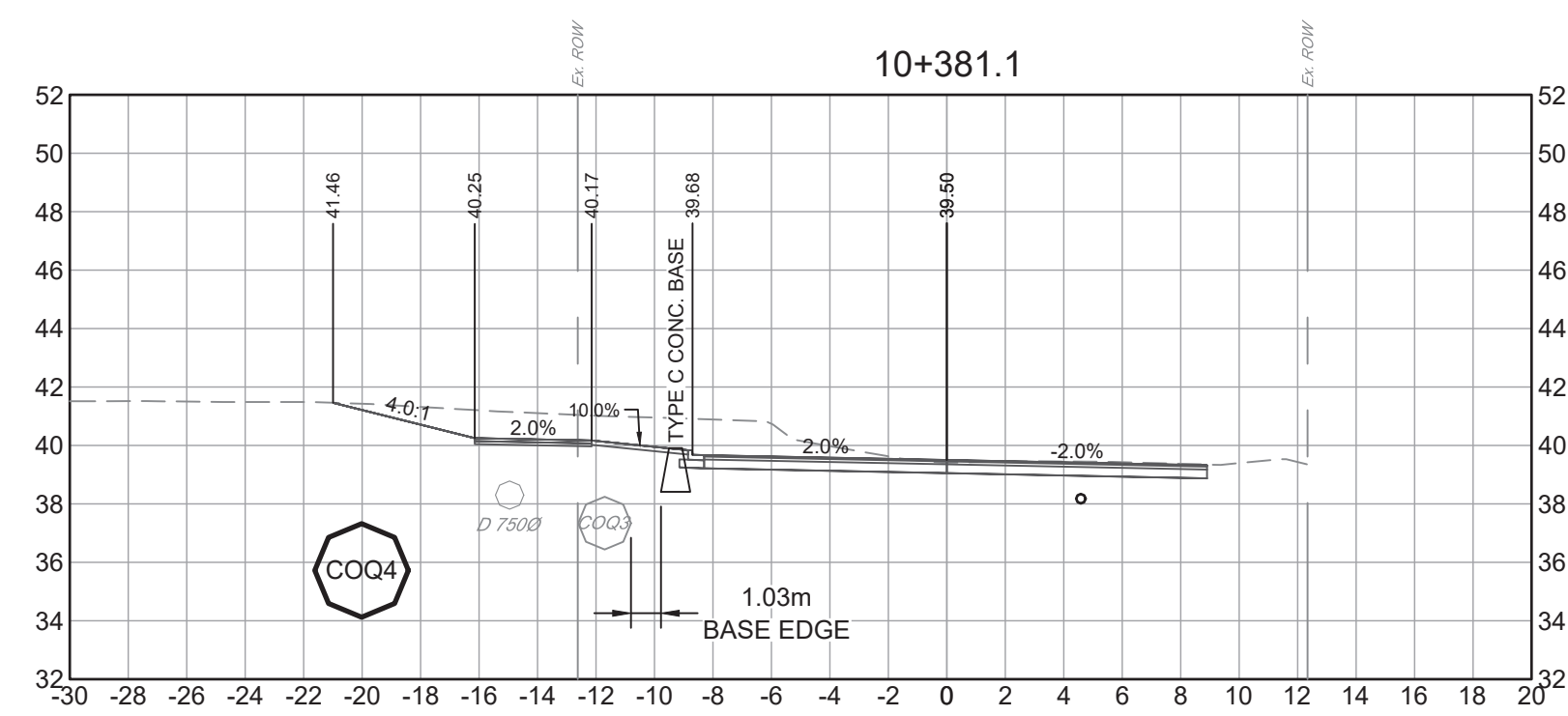
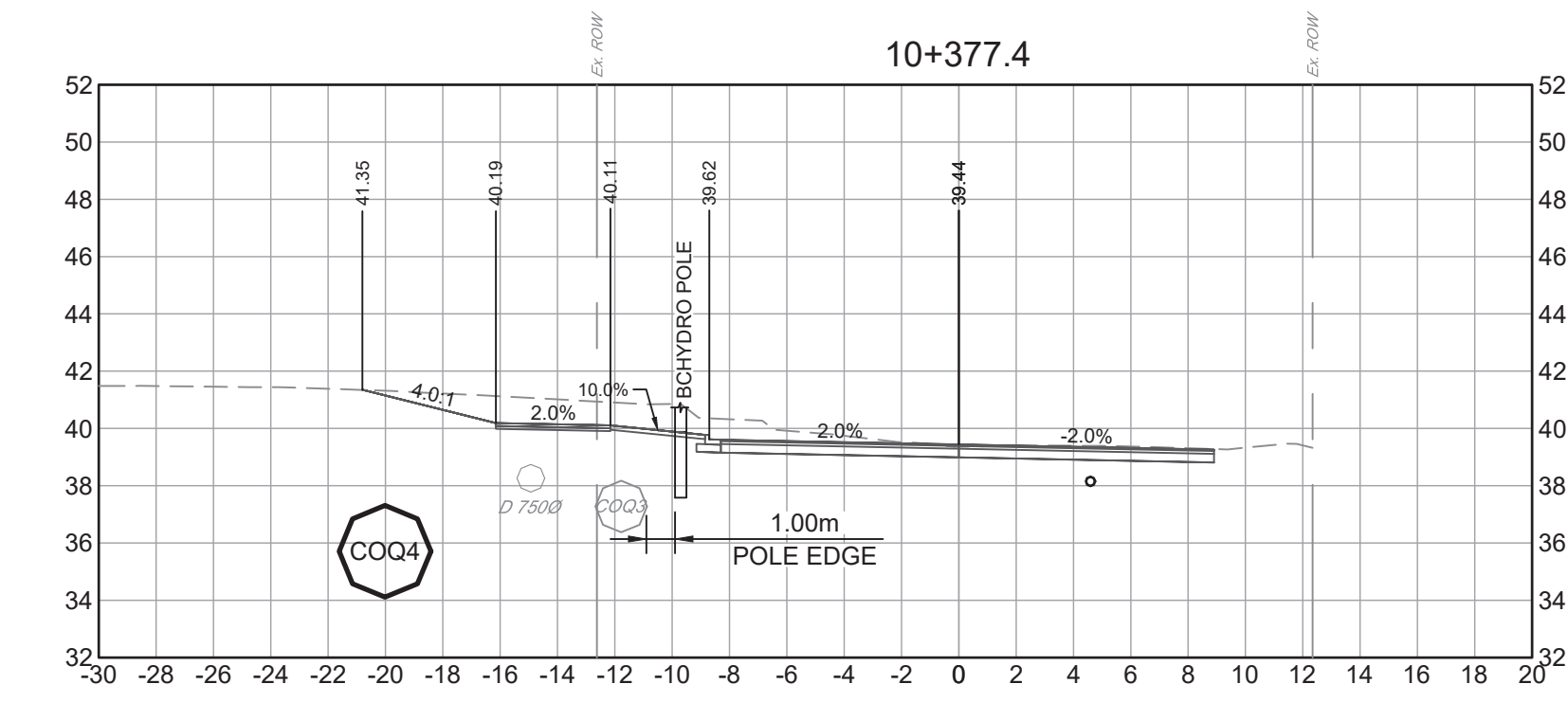
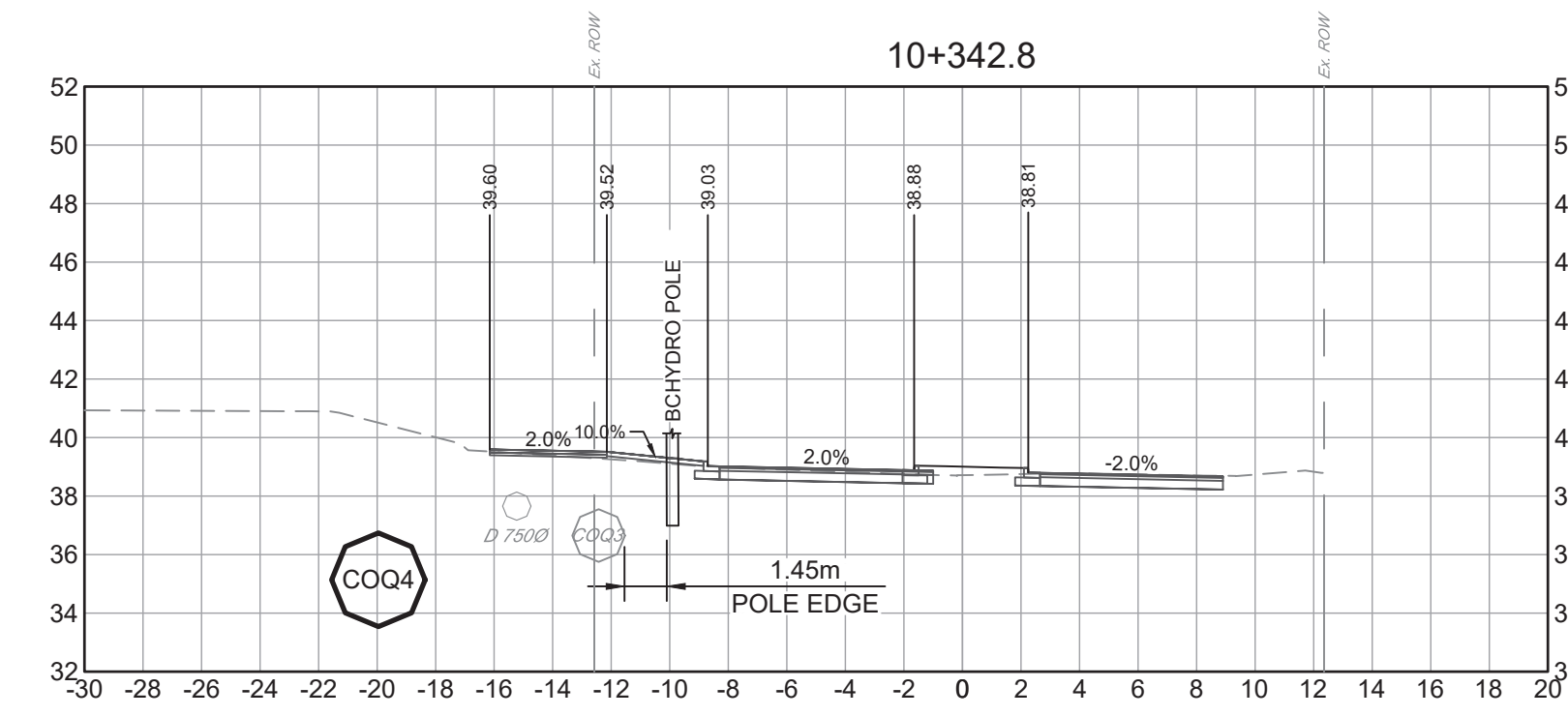
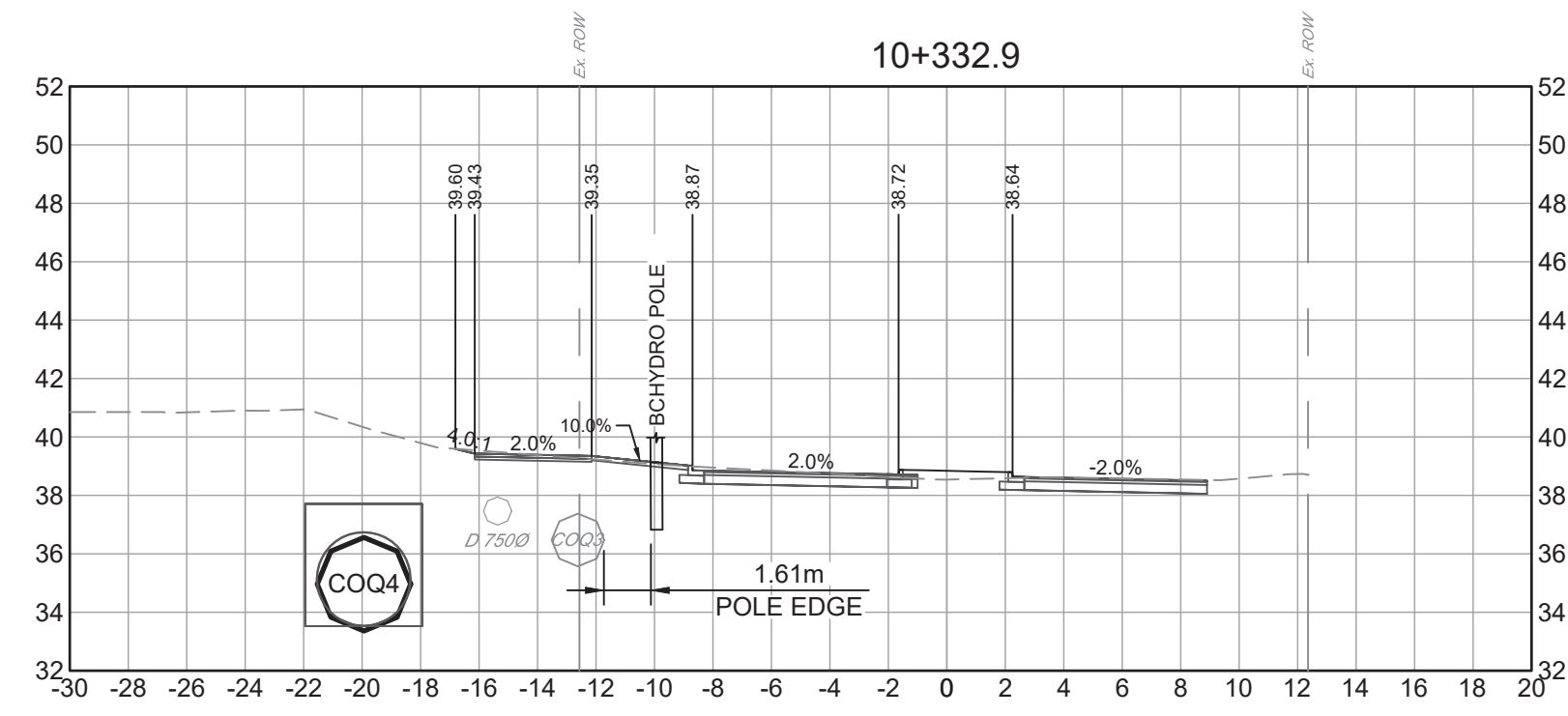


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DRAWN BY	PM	DESIGN BY	CJB	03
CHECKED BY	CJB	APPROVED BY	CJB	04
IFT DESIGN NO.				REV. B

32524

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SECTIONS - POLE / BASE PROXIMITY
 SCALE 1:250



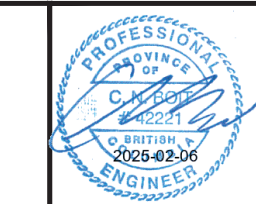
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PLOT DATE: February 6, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	ISSUED FOR REVIEW	2024/12/09	EH	CJB
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PIPELINE ROAD
 METROVAN PROXIMITY



#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
 T: (604)629-2596 F: (604)629-2598

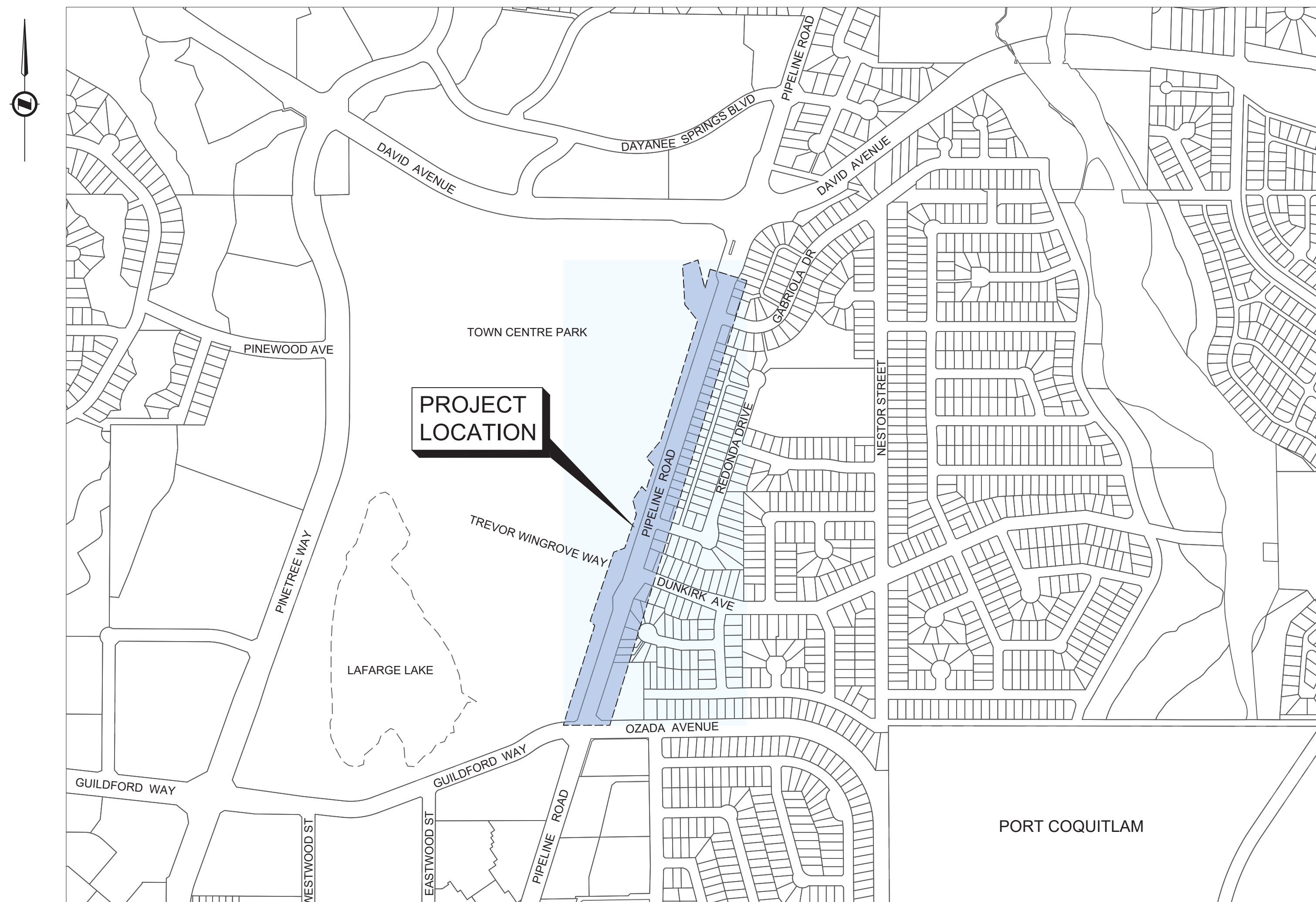
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DRAWN BY		PM		DESIGN BY		CJB		04 OF 04	
CHECKED BY		CJB		APPROVED BY		CJB		REV. B	

32524

DESTROY ALL PRINTS BEARING PREVIOUS NO.



PIPELINE ROAD IMPROVEMENTS PHASE 1 ISSUED FOR TENDER PROJECT #74770



LOCATION PLAN
SCALE 1:5000

DRAWING SCHEDULE			
CATEGORY	DWG NO.	SHEET TITLE	REV. NO.
GENERAL	00	COVER	C
	01	NOTES	B
	02	KEYPLAN	B
	03	TYPICAL SECTION	B
	04	DETAILS	B
REMOVALS	05	STA 10+120 TO STA 10+630	B
	06	STA 10+630 TO STA 11+110	B
ROADWORKS	07	STA 10+060 TO STA 10+340	C
	08	STA 10+340 TO STA 10+630	C
	09	STA 10+630 TO STA 10+900	C
INTERSECTIONS	10	DUNKIRK AVE INTERSECTION	C
	11	REDONDA DRIVE INTERSECTION	C
	12	GABRIOLA DRIVE INTERSECTION	C
PAVEMENT MARKINGS	13	STA 10+180 TO STA 10+400	C
	14	STA 10+400 TO STA 10+780	C
	15	STA 10+780 TO STA 11+160	C
SIGNAGE	16	STA 10+180 TO STA 10+400	C
	17	STA 10+400 TO STA 10+780	C
	18	STA 10+780 TO STA 11+160	C
STORM	19	STA 10+210 TO STA 10+590	C
	20	STA 10+590 TO STA 10+910	C
WATER	21	WATER SERVICES	C
LANDSCAPING	22	SOILS PLAN	C
	23	TREE PLANTING	B
	24	SHRUB PLANTING	C
	25	SHRUB PLANTING 2	B
	26	LANDSCAPE DETAILS 1	C
	27	LANDSCAPE DETAILS 2	B
CROSS SECTIONS	28	STA 10+230 TO STA 10+380	B
	29	STA 10+390 TO STA 10+540	B
	30	STA 10+550 TO STA 10+700	B
	31	STA 10+710 TO STA 10+860	B
	32	STA 10+870 TO STA 10+900	B
IRRIGATION	33	STA 10+220 TO STA 10+390	A
	34	STA 10+390 TO STA 10+540	A
	35	STA 10+540 TO STA 10+700	A
	36	STA 10+700 TO STA 10+850	A
	37	STA 10+850 TO STA 10+11+020	A
	38	IRRIGATION DETAILS	A

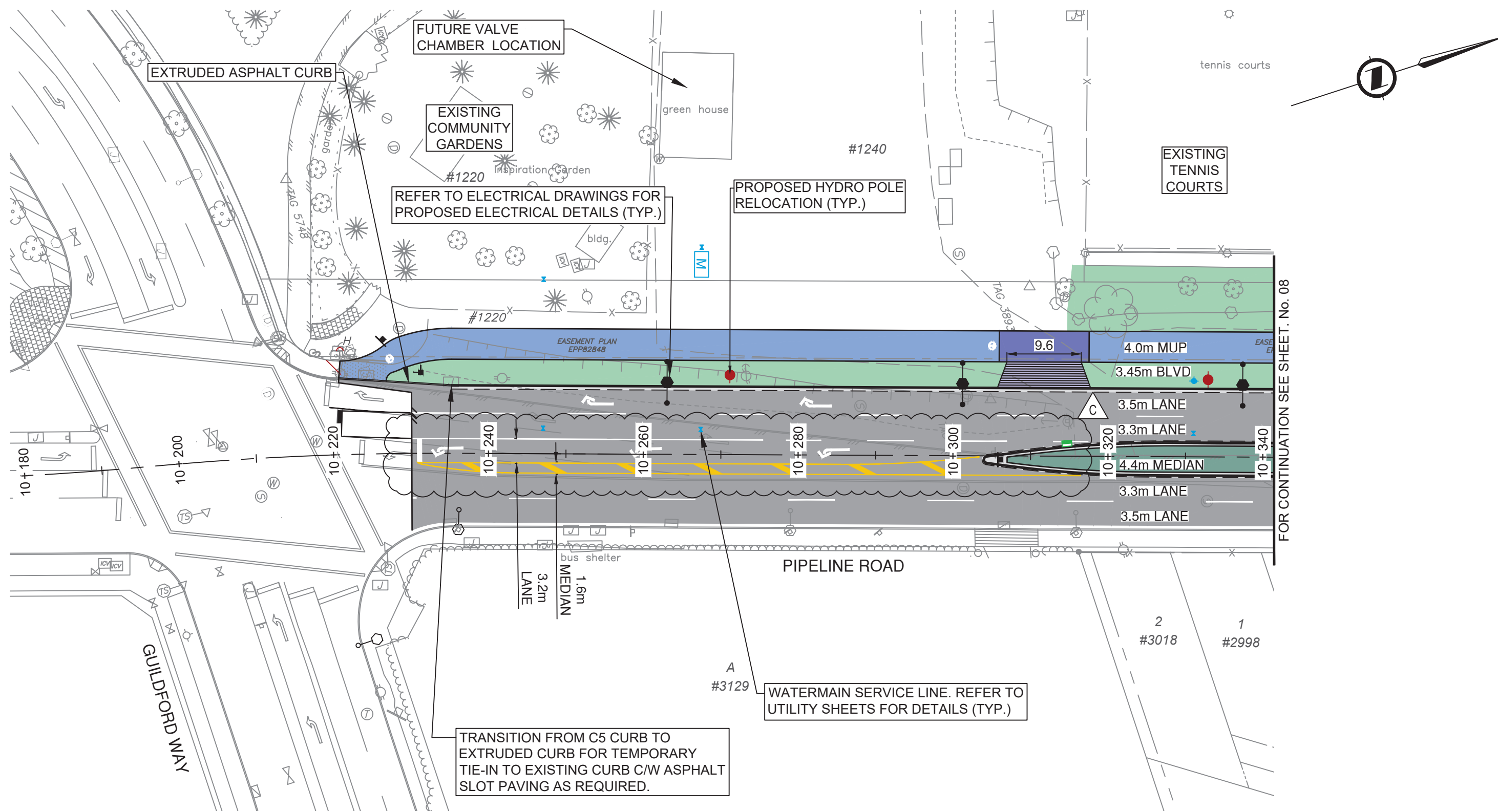
ELECTRICAL	ELECTRICAL PLANS AND DETAILS	8 SHEETS
PROXIMAL WORKS	PROXIMAL PLANS AND SECTIONS	4 SHEETS

Permit to Practice
 ISL Engineering and Land Services Ltd.
 RR Signature: *[Signature]*
 RR EGBCC ID: 42221
 Date: 2024/09/20
 Permit Number 1000419
 Engineers & Geoscientists British Columbia



IMPORTANT:

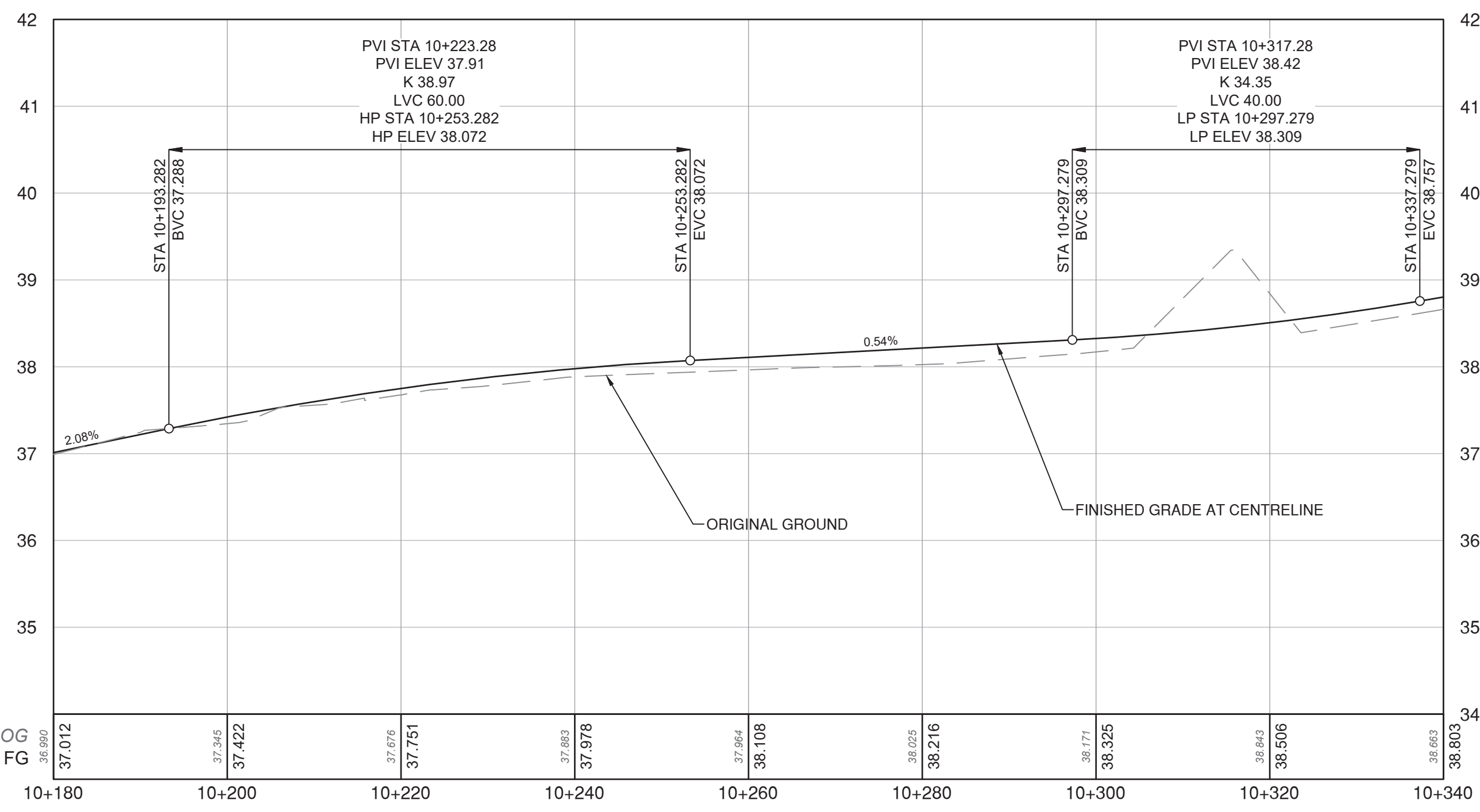
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PLAN
SCALE 1:500

NOTE: ALL LANE WIDTHS SHOWN IN PLAN VIEW ARE MEASURED TO FACE OF CURB

SURFACE TREATMENTS	
PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	250mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY CA)
	100mm OF 25mm MINUS GRANULAR BASE (OPTIONAL AS DIRECTED BY CA)
	65mm OF LOWER COURSE #1 ASPHALT
	50mm OF 19mm MOTI CLASS 1, 19mm MEDIUM MIX ASPHALT
ASPHALT - PATHWAYS	
	100mm OF 19mm MINUS GRANULAR BASE
	50mm OF MMCD UPPER COURSE #2 ASPHALT
ASPHALT - PATHWAYS AT DRIVEWAYS	
	100mm OF 19mm MINUS GRANULAR BASE
	75mm OF MMCD UPPER COURSE #2 ASPHALT
CONCRETE - DRIVEWAY LETDOWN	
	150mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY CA)
	100mm OF 19mm MINUS GRANULAR BASE
	200mm MMCD PORTLAND CEMENT CONCRETE
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	CONCRETE CURB/BAND
	NARROW CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING
	PLANTING AREA - REFER TO LANDSCAPE DRAWINGS FOR PLANTING PLAN



PROFILE
SCALE 1:500H / 1:50V

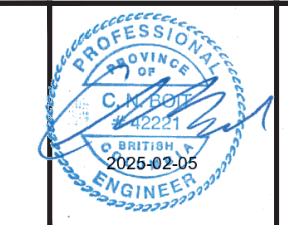


PLOT DATE: February 5, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	DETAILED DESIGN	2024/07/05	GA	CJB
B	ISSUED FOR TENDER	2025/01/21	PM	CJB
C	ISSUED FOR ADDENDUM 1	2025/02/05	PM	CJB



ROAD WORKS
STA 10+060 TO STA 10+340
PIPELINE ROAD

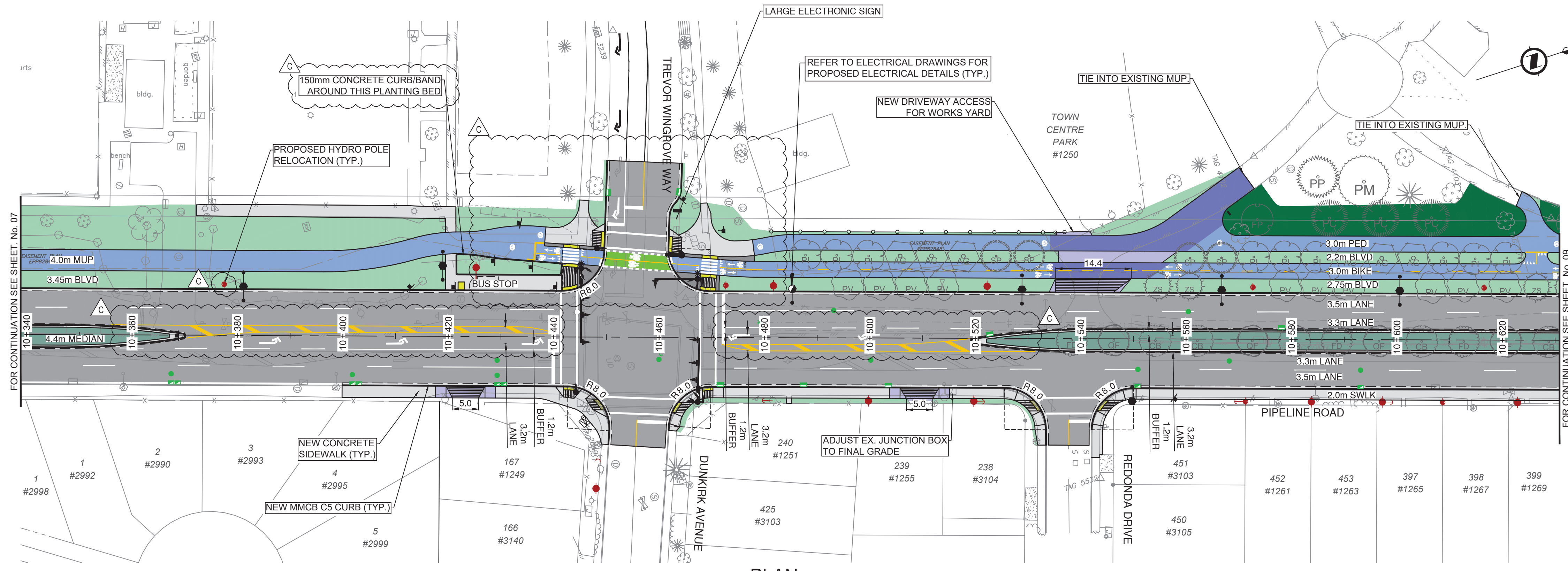


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DRAWN BY	PM	DESIGN BY	CJB	07 OF 38
CHECKED BY	CJB	APPROVED BY	CJB	REV. C

32524

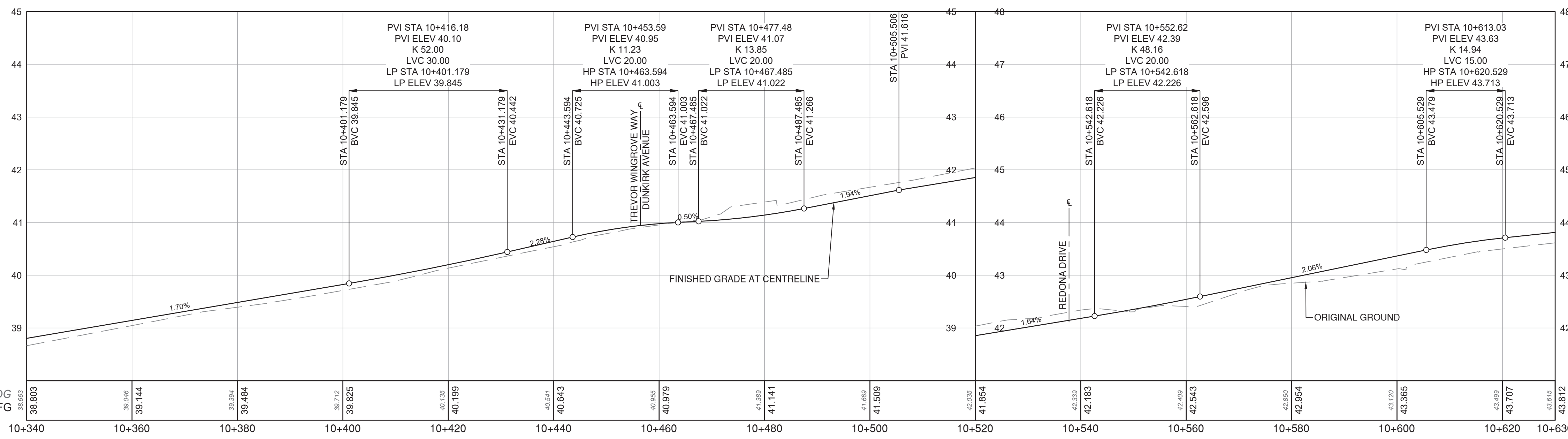
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	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
LANDSCAPING	
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	PLANTING AREA - REFER TO LANDSCAPE DRAWINGS FOR PLANTING PLAN



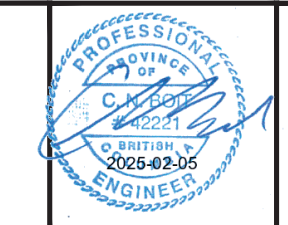
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PLOT DATE: February 5, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
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ROAD WORKS STA 10+340 TO STA 10+630 PIPELINE ROAD

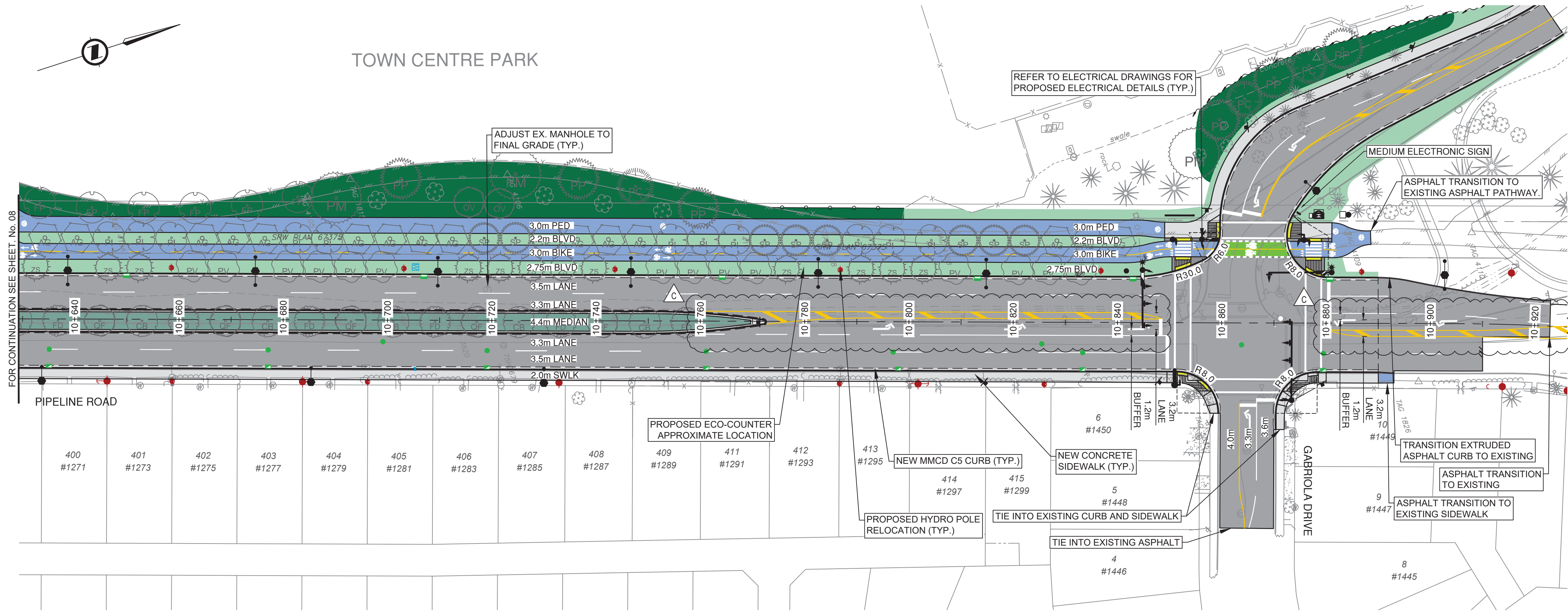


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DRAWN BY	PM	DESIGN BY	CJB	APPROVED BY	CJB	OF	38
CHECKED BY	CJB	APPROVED BY	CJB			REV.	C

DESTROY ALL PRINTS BEARING PREVIOUS NO.

IMPORTANT:

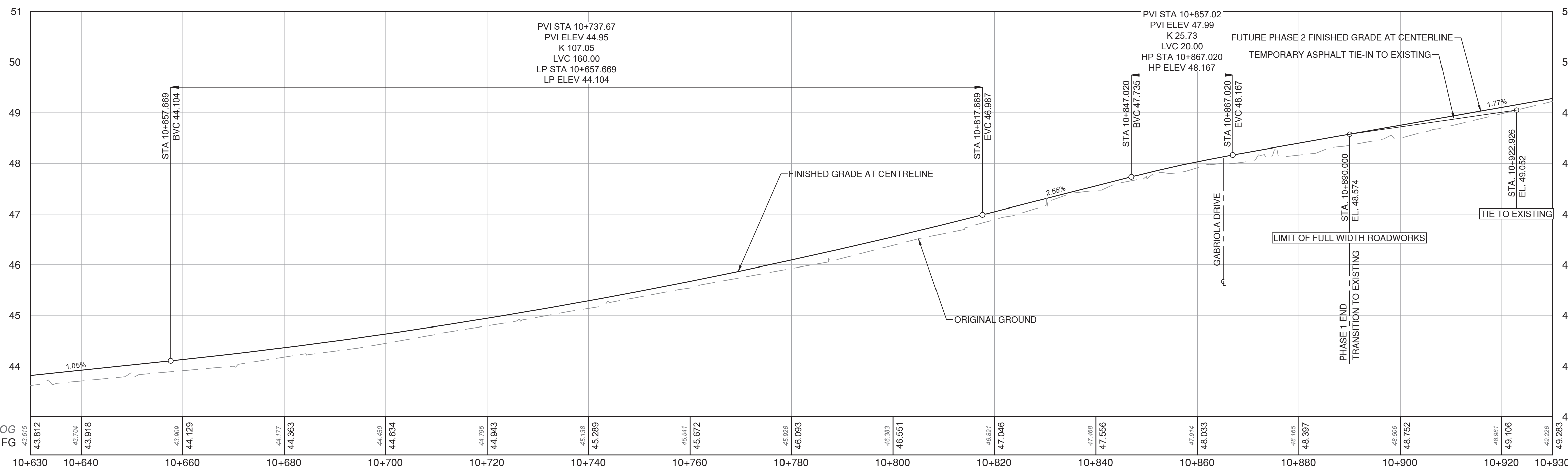
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PLAN
SCALE 1:500

NOTE: ALL LANE WIDTHS SHOWN IN PLAN VIEW ARE MEASURED TO FACE OF CURB

SURFACE TREATMENTS	
PATTERN	DESCRIPTION
ASPHALT - FULL DEPTH PAVEMENT	
	250mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY CA)
	100mm OF 25mm MINUS GRANULAR BASE (OPTIONAL AS DIRECTED BY CA)
	65mm OF LOWER COURSE #1 ASPHALT
	50mm OF 19mm MOTI CLASS 1, 19mm MEDIUM MIX ASPHALT
ASPHALT - PATHWAYS	
	100mm OF 19mm MINUS GRANULAR BASE
	50mm OF MMCD UPPER COURSE #2 ASPHALT
ASPHALT - PATHWAYS AT DRIVEWAYS	
	100mm OF 19mm MINUS GRANULAR BASE
	75mm OF MMCD UPPER COURSE #2 ASPHALT
CONCRETE - DRIVEWAY LETDOWN	
	150mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE (OPTIONAL AS DIRECTED BY CA)
	100mm OF 19mm MINUS GRANULAR BASE
	200mm MMCD PORTLAND CEMENT CONCRETE
CONCRETE - SIDEWALK / CURB / BANDING	
	CONCRETE SIDEWALK AND INFILL (SEE DETAILS ON SHEET 3)
	CONCRETE CURB/BAND
	NARROW CURB AND GUTTER
	MMCD C5 CURB AND GUTTER
	RAISED CONCRETE ISLANDS AT PROTECTED INTERSECTIONS
LANDSCAPING	
	MIN. 150mm TOPSOIL AND SODDING
	PLANTING AREA - REFER TO LANDSCAPE DRAWINGS FOR PLANTING PLAN



PROFILE
SCALE 1:500H / 1:50V

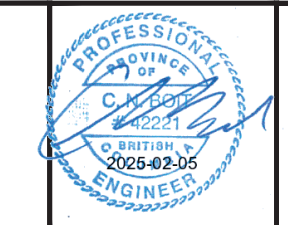


PLOT DATE: February 5, 2025

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A	DETAILED DESIGN	2024/07/05	GA	CJB
B	ISSUED FOR TENDER	2025/01/21	PM	CJB
C	ISSUED FOR ADDENDUM 1	2025/02/05	PM	CJB



ROAD WORKS
STA 10+630 TO STA 10+900
PIPELINE ROAD

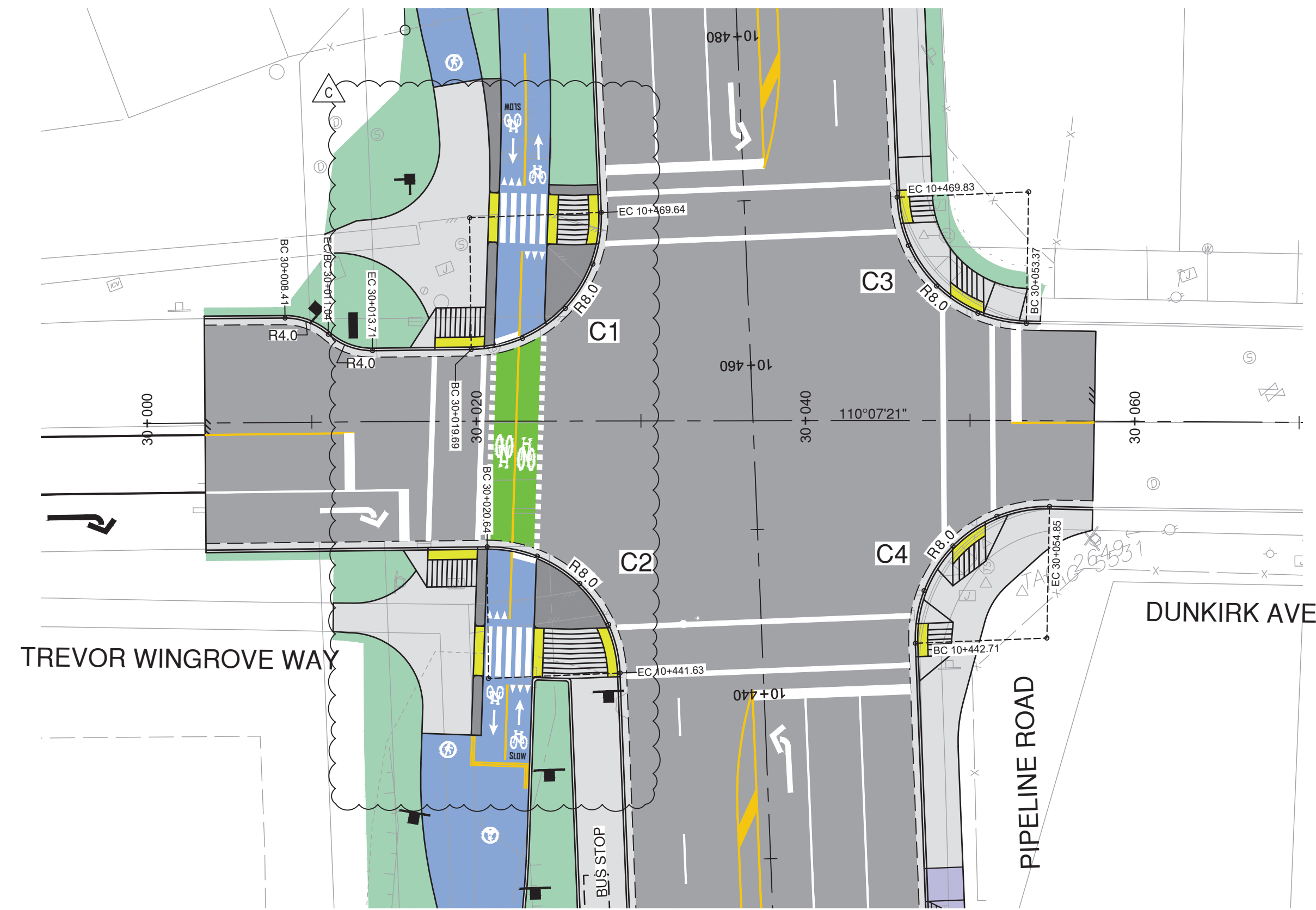


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CHECKED BY		CJB		APPROVED BY	CJB	REV.	C

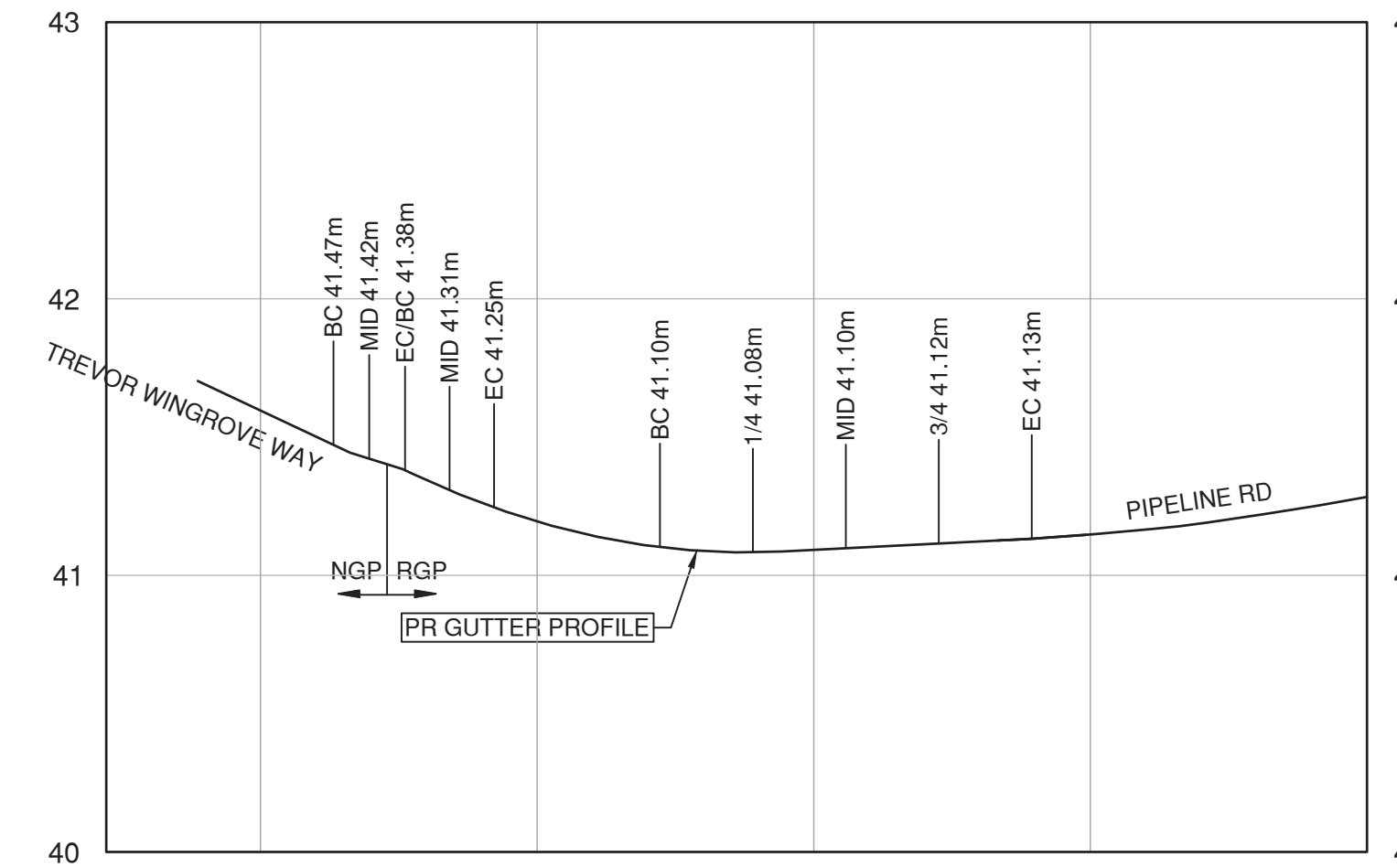
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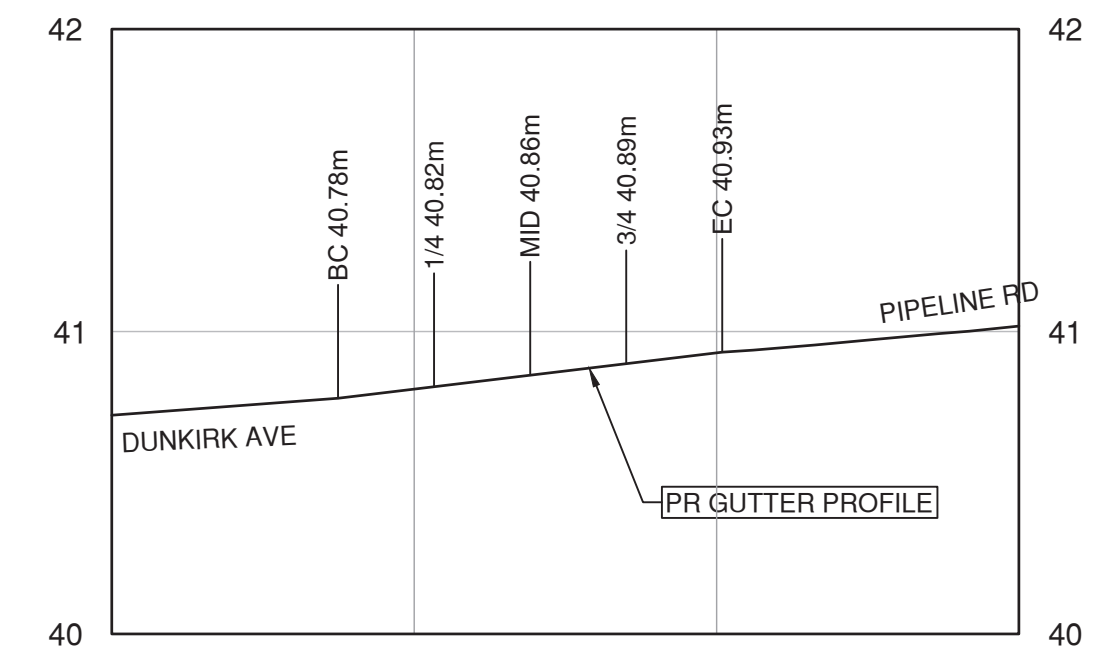
- SCOPE AND EXPOSE EX. UTILITIES/SERVICES, AND RECORD LOCATION, SIZE & INVERT ELEVATIONS AT PROP. OR POTENTIAL CROSSINGS PRIOR TO CONSTRUCTION. THE AS-BUILT UNDERGROUND INFORMATION SHOWN ON THIS DRAWING IS DERIVED FROM COMBINATION OF SURVEY AND RECORD DRAWINGS AND REQUIRE CONFIRMATION OF LOCATION PRIOR TO CONSTRUCTION.
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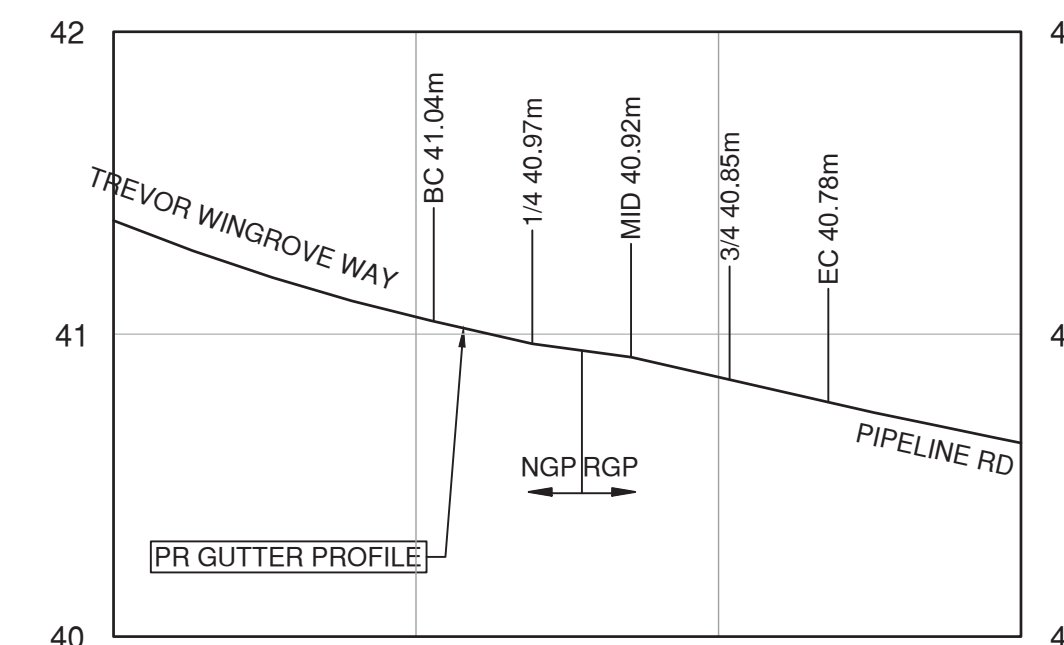
PLAN
SCALE 1:250



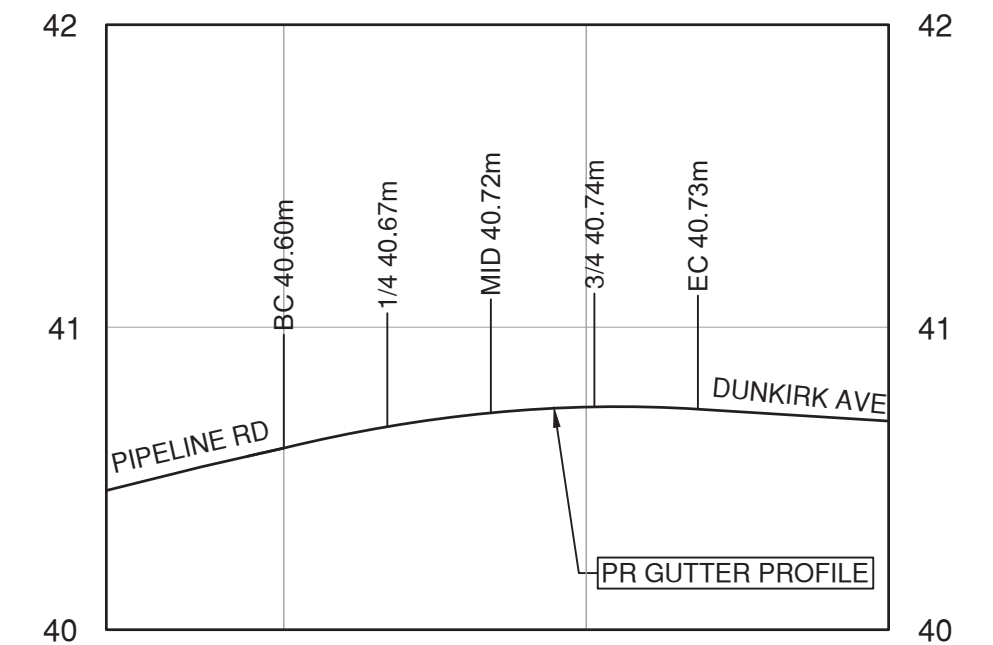
TREVOR WINGROVE WAY
C1 - CURB RETURN
SCALE 1:250H, 1:50V



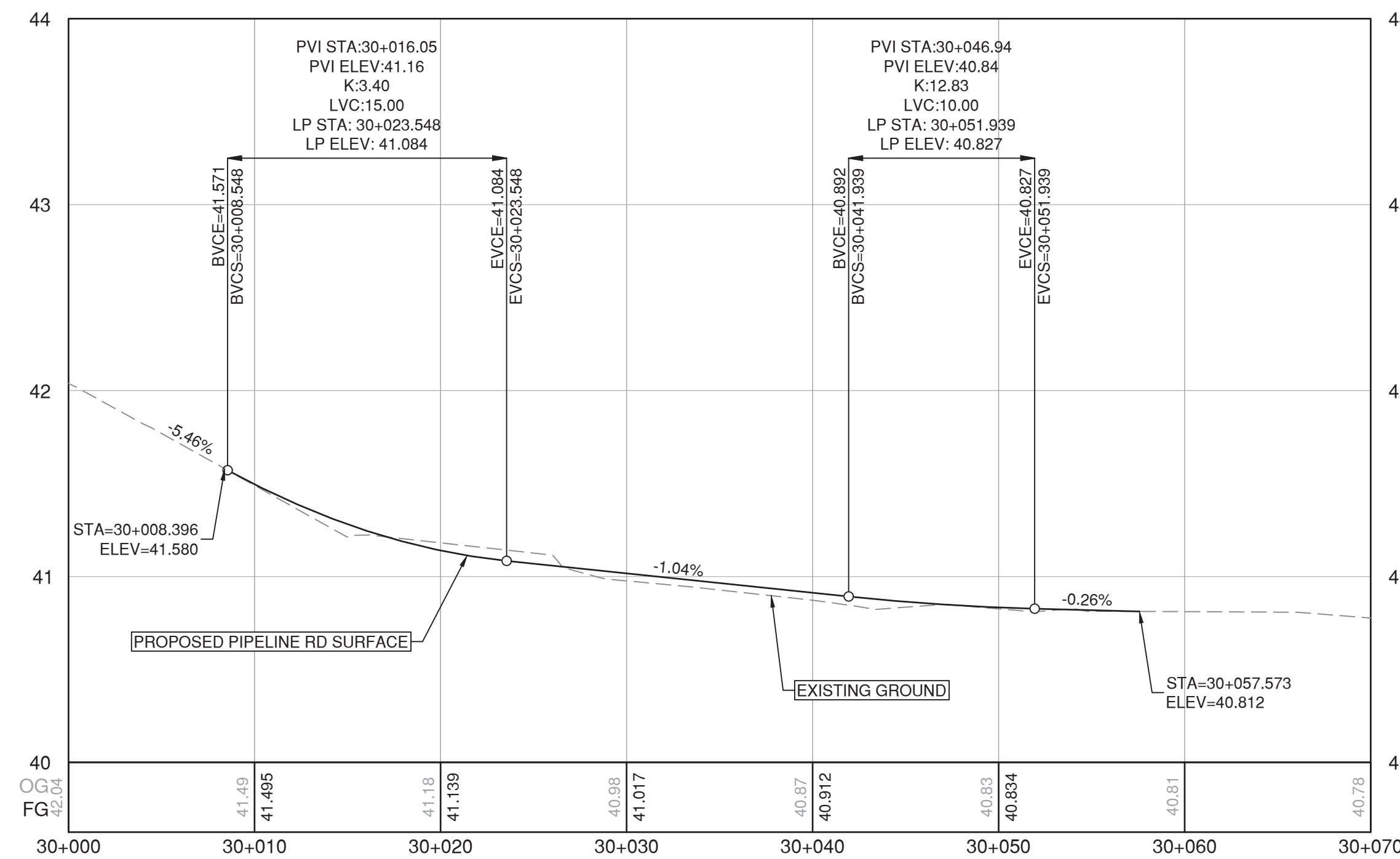
DUNKIRK AVE
C3 - CURB RETURN
SCALE 1:250H, 1:50V



TREVOR WINGROVE WAY
C2 - CURB RETURN
SCALE 1:250H, 1:50V



DUNKIRK AVE
C4 - CURB RETURN
SCALE 1:250H, 1:50V



PROFILE
SCALE 1:250H / 1:25V



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PLOT DATE: February 5, 2025

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B	ISSUED FOR TENDER	2025/01/21	PM	CJB
C	ISSUED FOR ADDENDUM 1	2025/02/05	PM	CJB



ROAD WORKS
DUNKIRK AVE INTERSECTION
PIPELINE ROAD

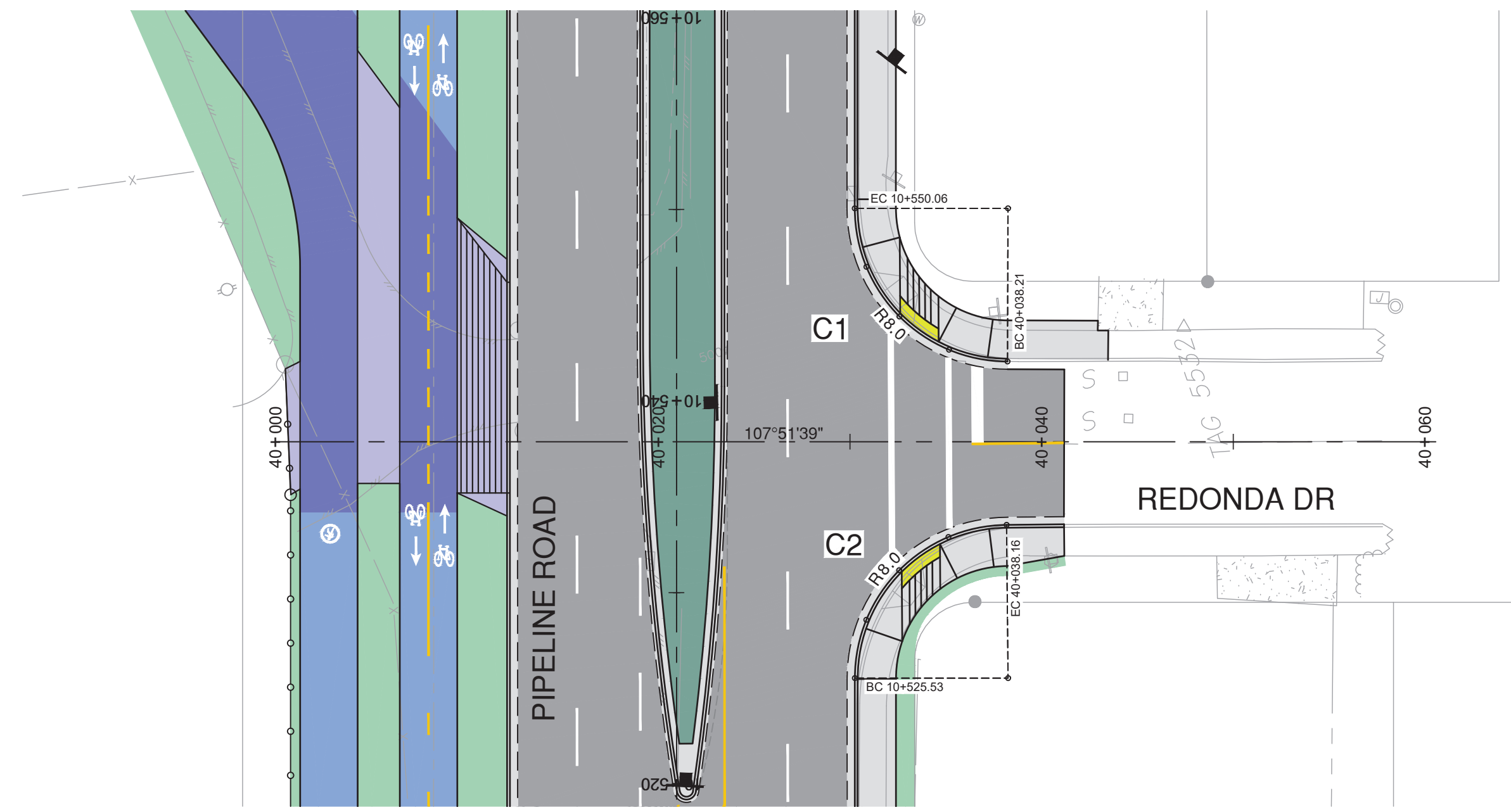
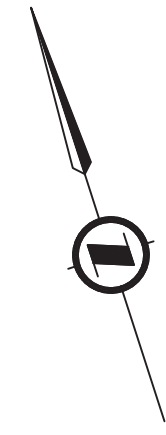


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DRAWN BY	PM	DESIGN BY	CJB	10 OF 38
CHECKED BY	CJB	APPROVED BY	CJB	REV. C

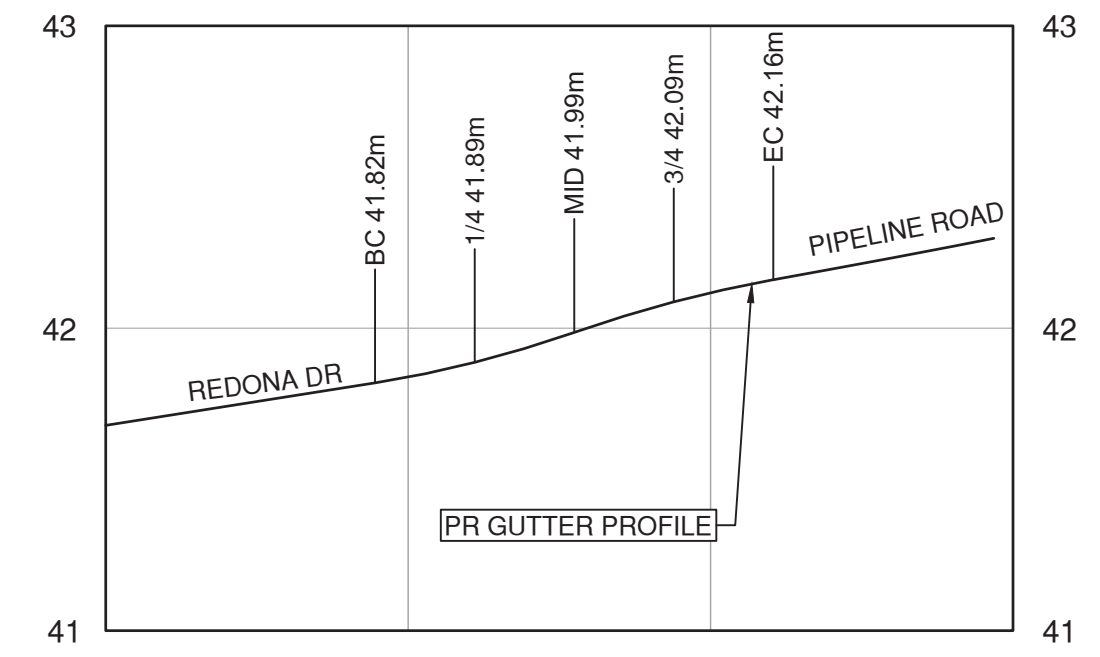
32524

IMPORTANT:

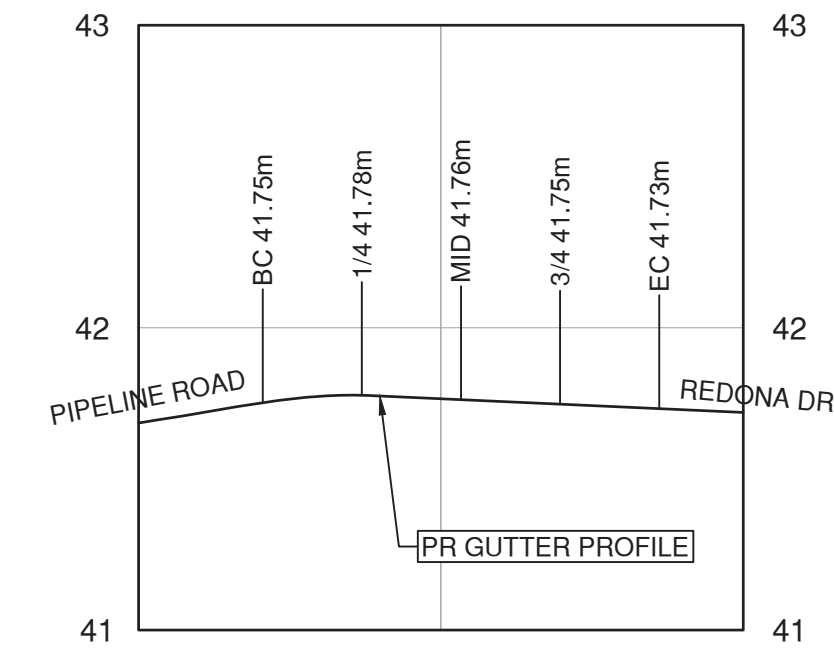
- SCOPE AND EXPOSE EX. UTILITIES/SERVICES, AND RECORD LOCATION, SIZE & INVERT ELEVATIONS AT PROP. OR POTENTIAL CROSSINGS PRIOR TO CONSTRUCTION. THE AS-BUILT UNDERGROUND INFORMATION SHOWN ON THIS DRAWING IS DERIVED FROM COMBINATION OF SURVEY AND RECORD DRAWINGS AND REQUIRE CONFIRMATION OF LOCATION PRIOR TO CONSTRUCTION.
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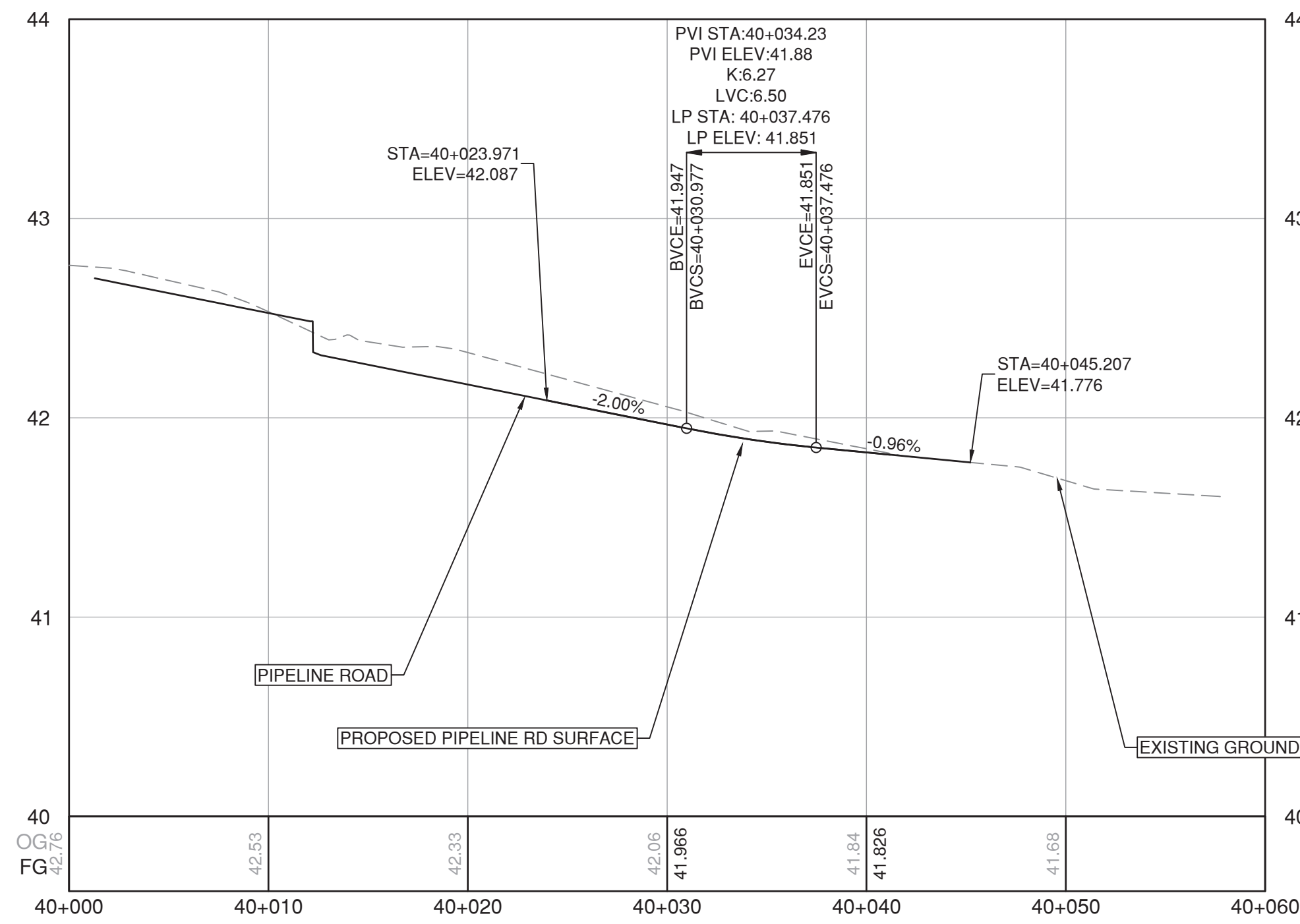
PLAN
SCALE 1:250



**REDONDA DR
C1 - CURB RETURN**
SCALE 1:250H, 1:50V



**REDONDA DR
C2 - CURB RETURN**
SCALE 1:250H, 1:50V



PROFILE
SCALE 1:250H / 1:25V



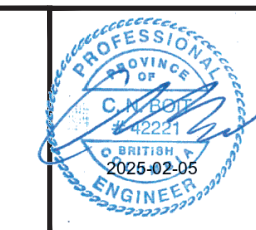
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PLOT DATE: February 5, 2025

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

ROAD WORKS
REDONDA DRIVE INTERSECTION
PIPELINE ROAD



ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2696 F: (604)629-2698

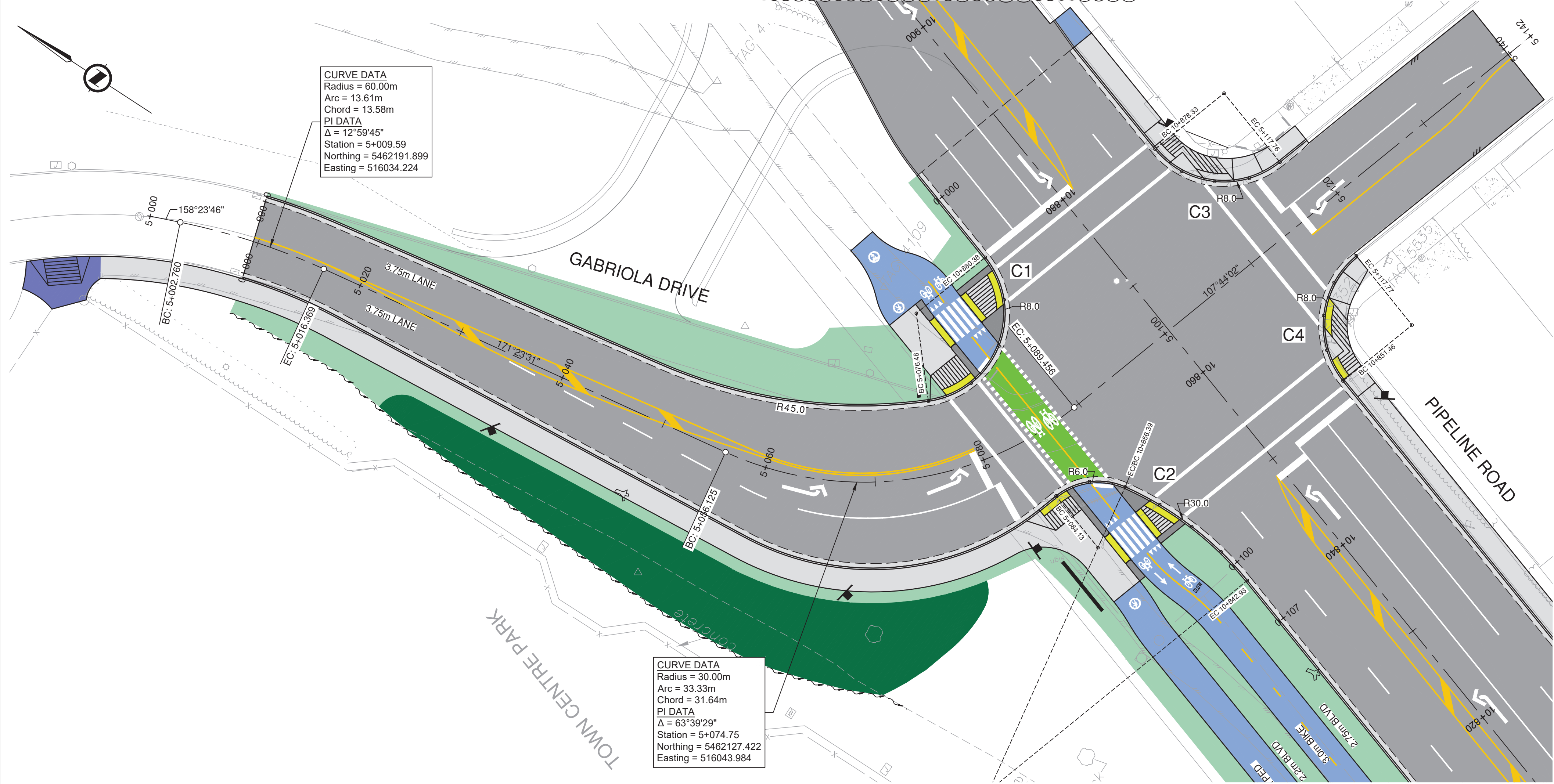
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32524

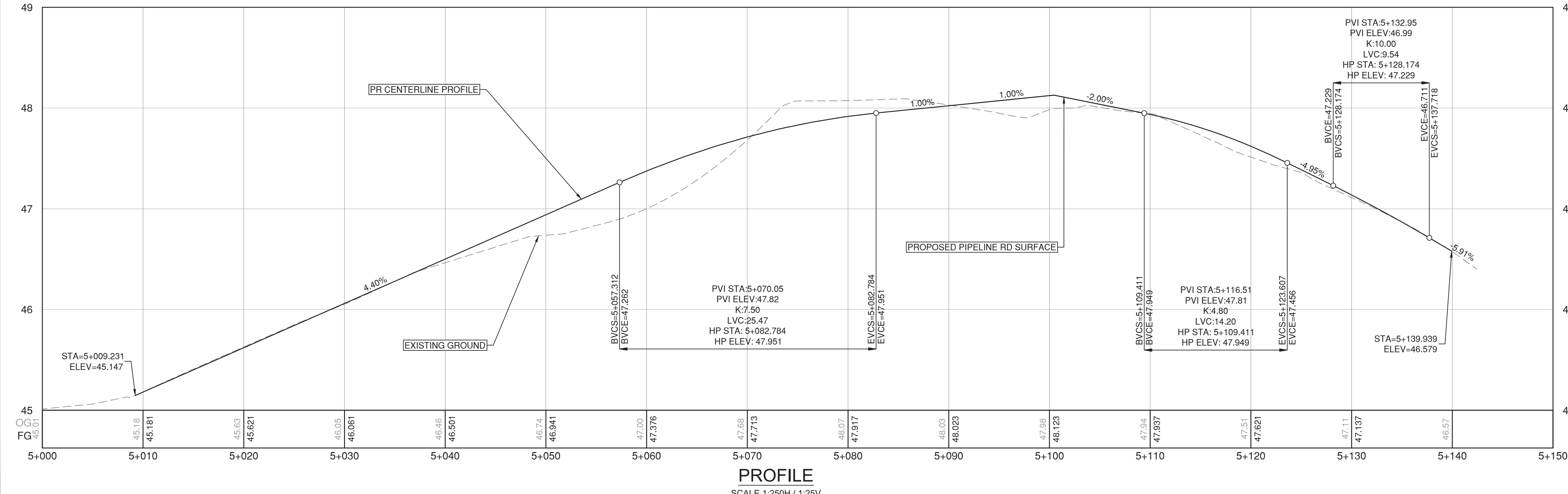
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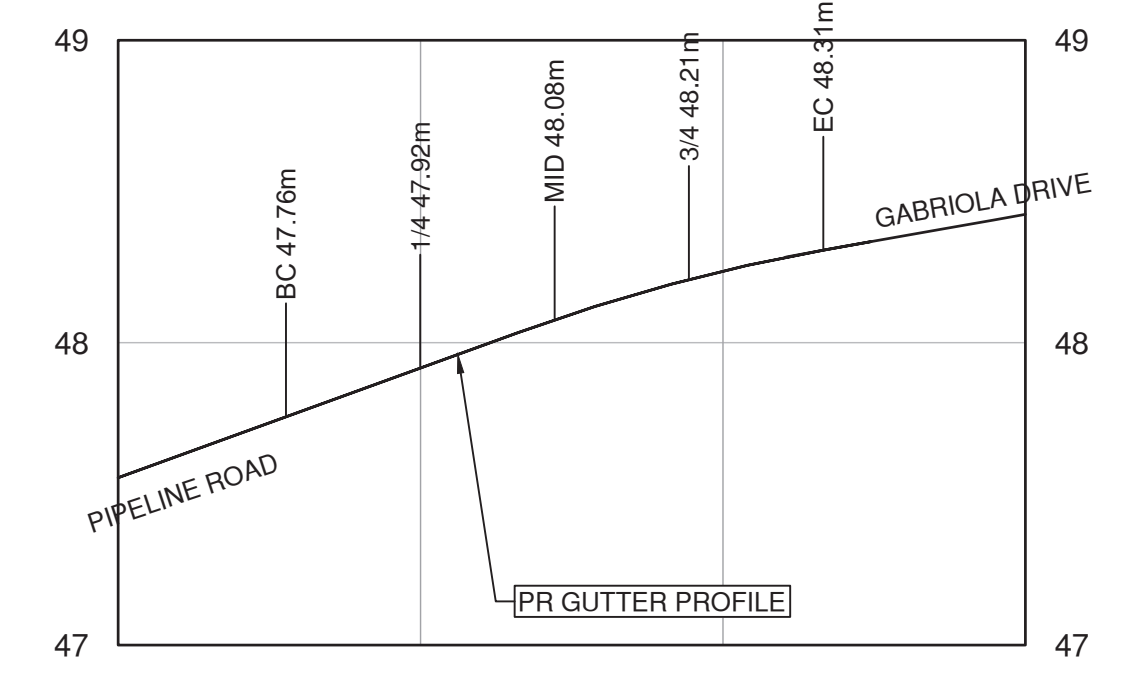
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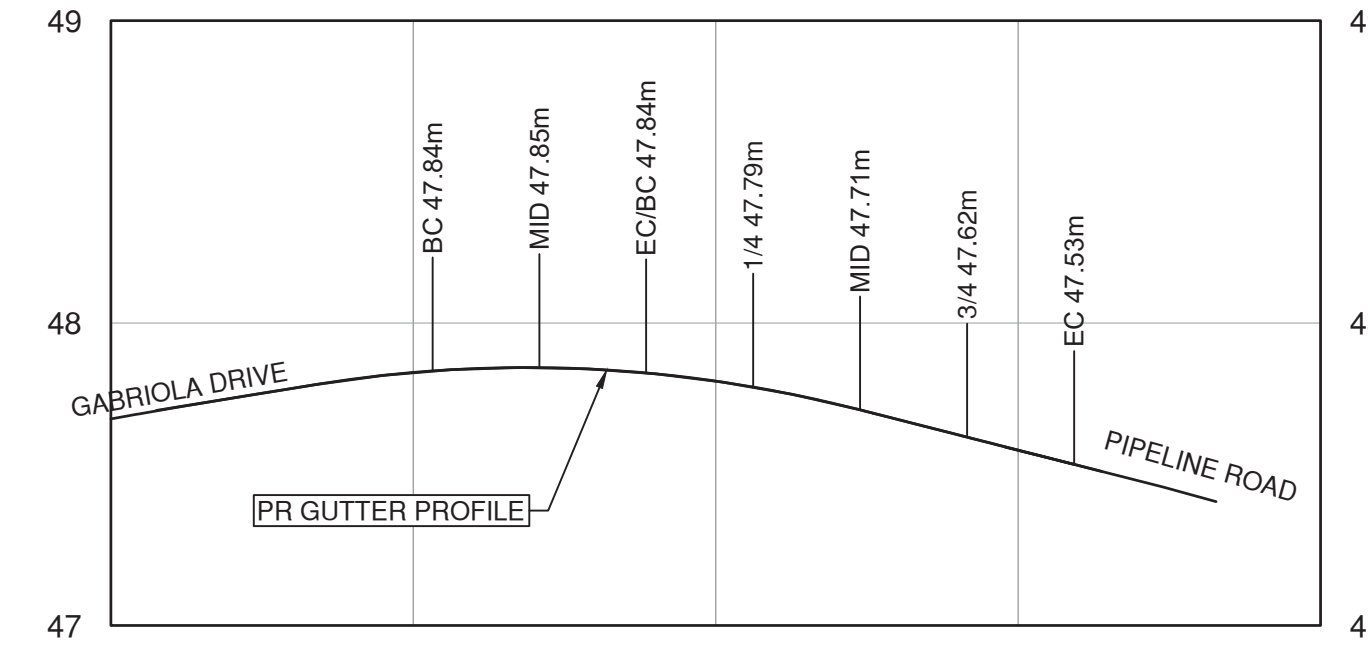
PLAN
SCALE 1:500



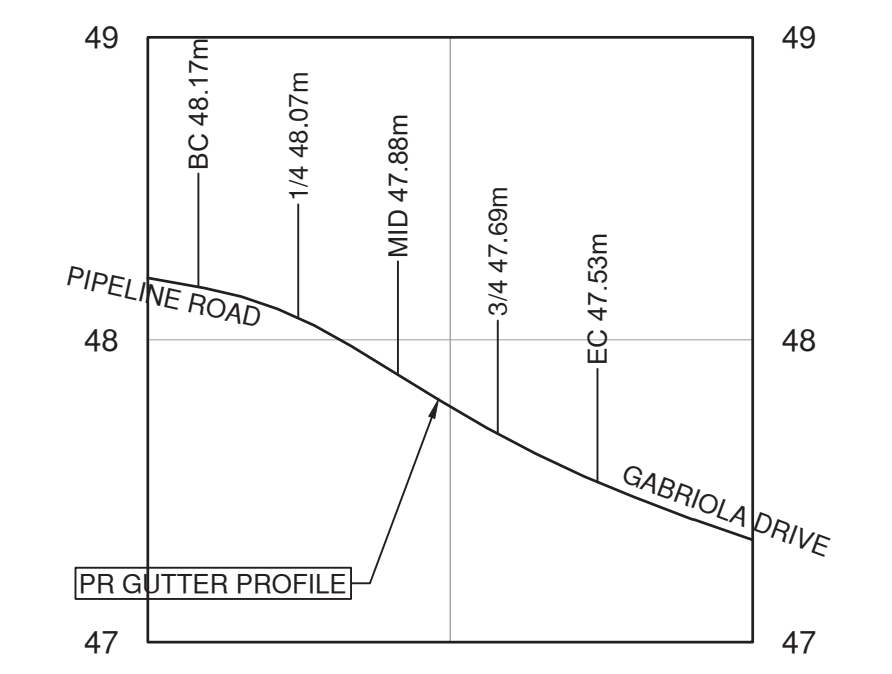
PROFILE
SCALE 1:250H / 1:25V



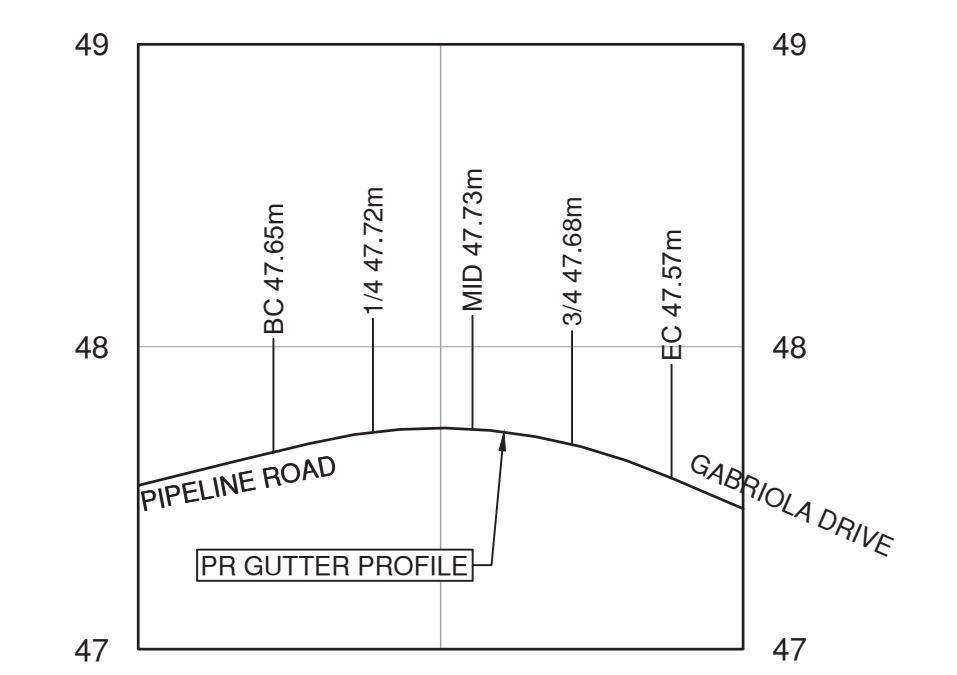
**GABRIOLA DR
C1 - CURB RETURN**
SCALE 1:250H, 1:50V



**GABRIOLA DR
C2 - CURB RETURN**
SCALE 1:250H, 1:50V



**GABRIOLA DR
C3 - CURB RETURN**
SCALE 1:250H, 1:50V



**GABRIOLA DR
C4 - CURB RETURN**
SCALE 1:250H, 1:50V

PLOT DATE: February 5, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
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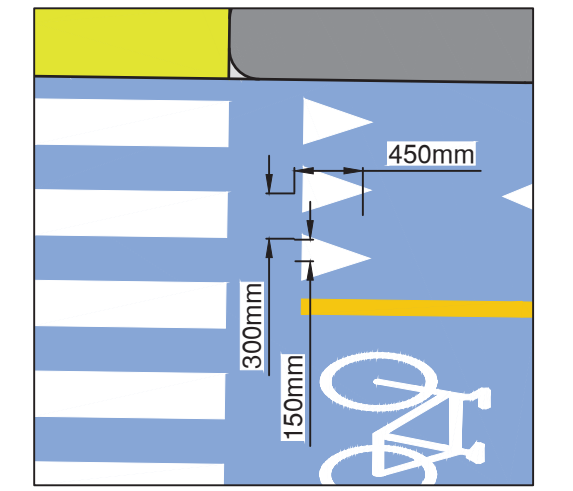


ROAD WORKS
GABRIOLA DRIVE INTERSECTION
PIPELINE ROAD

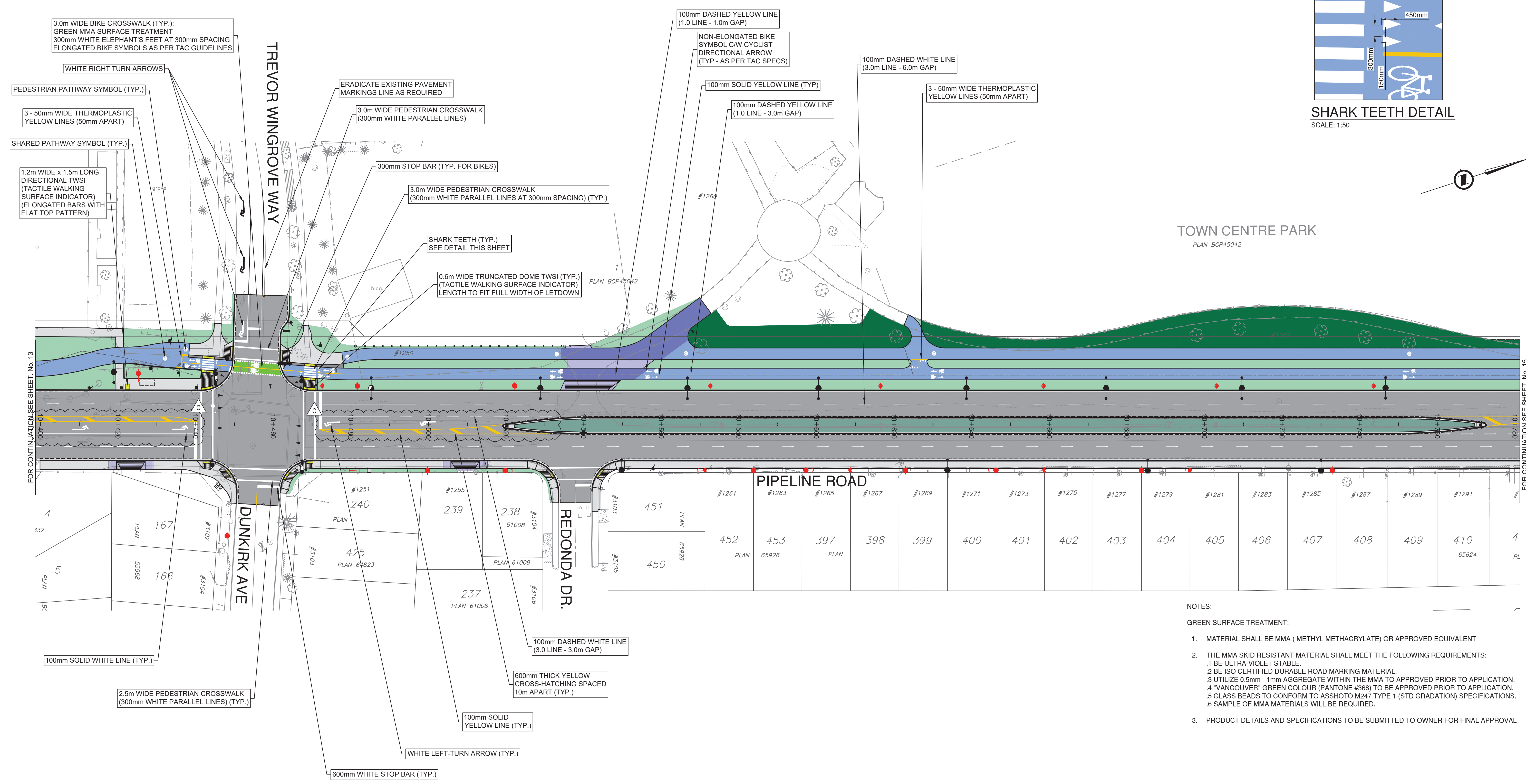
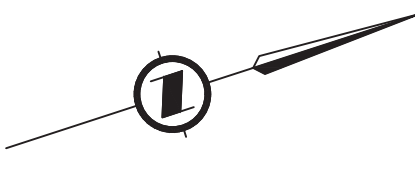


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32524



SHARK TEETH DETAIL
SCALE: 1:50



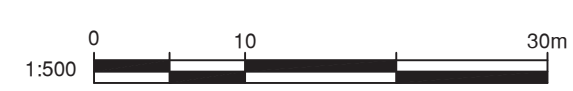
TOWN CENTRE PARK
PLAN BCP45042

PIPELINE ROAD

DUNKIRK AVE

REDONDA DR.

- NOTES:
- GREEN SURFACE TREATMENT:
- MATERIAL SHALL BE MMA (METHYL METHACRYLATE) OR APPROVED EQUIVALENT
 - THE MMA SKID RESISTANT MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:
 - BE ULTRA-VIOLET STABLE.
 - BE ISO CERTIFIED DURABLE ROAD MARKING MATERIAL.
 - UTILIZE 0.5mm - 1mm AGGREGATE WITHIN THE MMA TO APPROVED PRIOR TO APPLICATION.
 - "VANCOUVER" GREEN COLOUR (PANTONE #368) TO BE APPROVED PRIOR TO APPLICATION.
 - GLASS BEADS TO CONFORM TO ASSHOTO M247 TYPE 1 (STD GRADATION) SPECIFICATIONS.
 - SAMPLE OF MMA MATERIALS WILL BE REQUIRED.
 - PRODUCT DETAILS AND SPECIFICATIONS TO BE SUBMITTED TO OWNER FOR FINAL APPROVAL

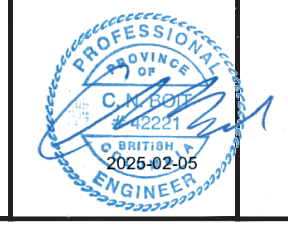


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	ISSUED FOR ADDENDUM 1	2025/02/05		CJB



STA 10+400 TO STA 10+780
PAVEMENT MARKINGS

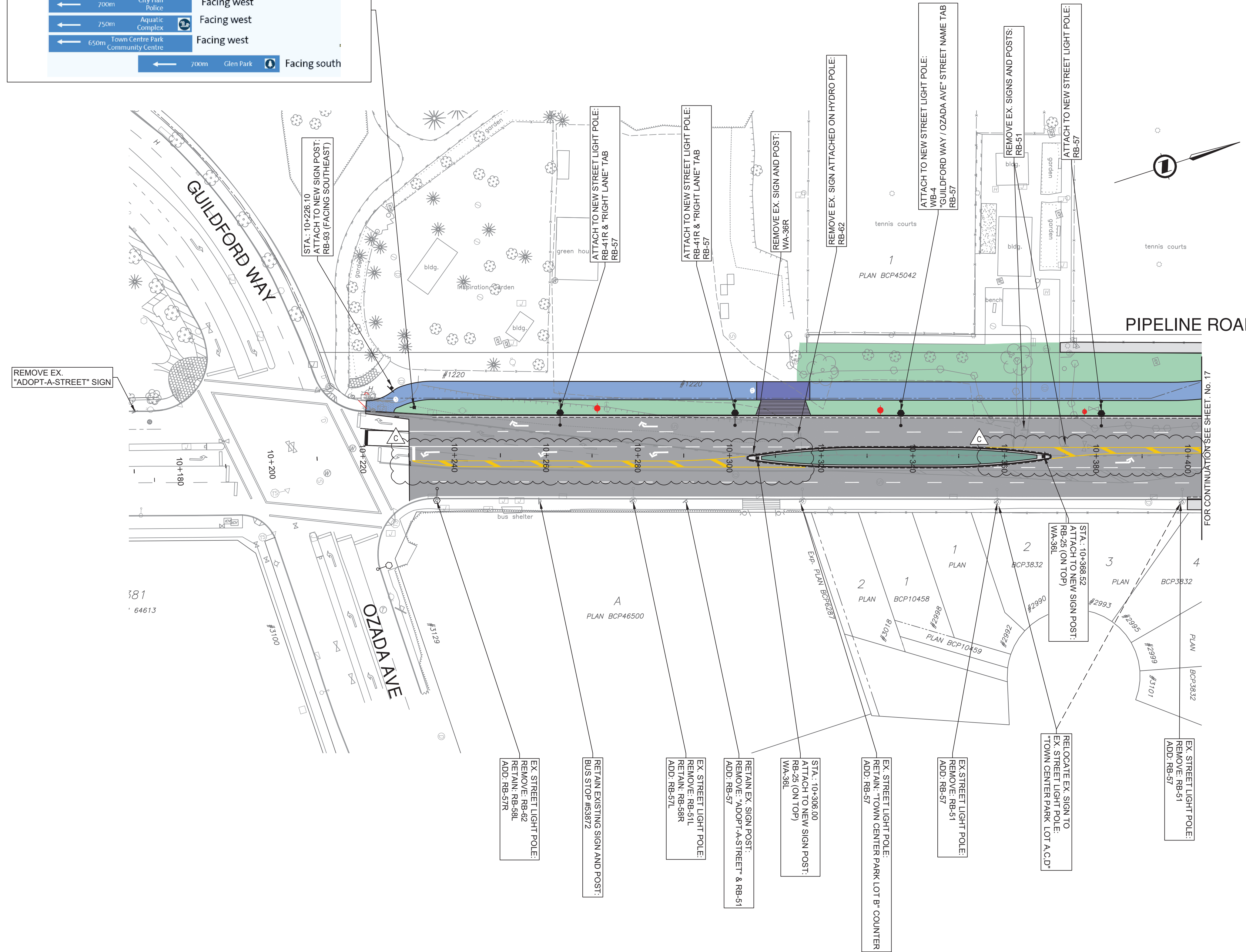


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CHECKED BY	CJB						

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PEDESTRIAN FINGERBOARD SIGNS AS PER CITY OF COQUITLAM WAYFINDING GUIDELINES:

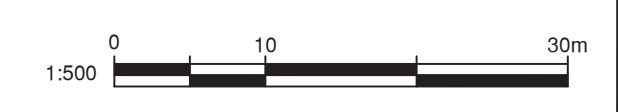
← 600m	Lafarge Lake Douglas St	Facing west
← 800m	Douglas College	Facing west
← 700m	City Hall Police	Facing west
← 750m	Aquatic Complex	Facing west
← 650m	Town Centre Park Community Centre	Facing west
← 700m	Glen Park	Facing south



- NOTES:
- NEW SIGNAGE POST SLEEVES TO BE IN PLACE PRIOR TO CONCRETE WORKS
 - SIGNAGE HEIGHTS AND LATERAL CLEARANCES TO BE AS PER BC MOTI MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS

SIGN LEGEND:

RB-93	RB-57L	RB-57	RB-57R	RB-58L	RB-58R	RB-51L	RB-51	ADOPT-A-STREET
WB-4	WA-36L	WA-36R	RB-25	RB-62	RIGHT LANE	RB-41R & "RIGHT LANE" TAB		

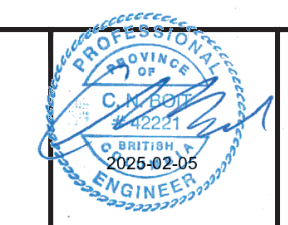


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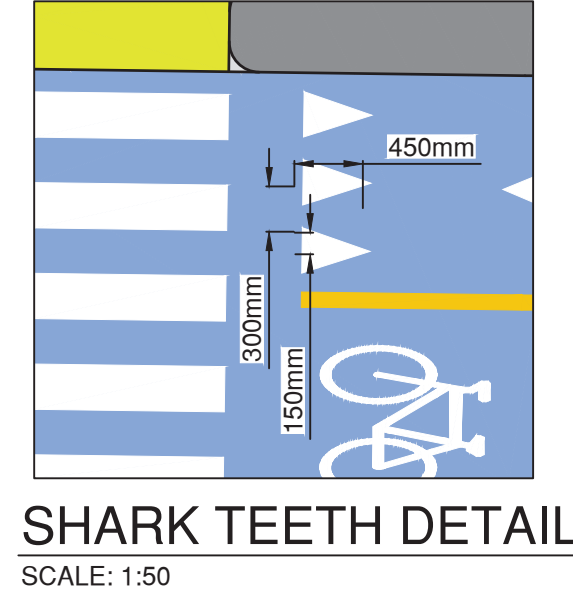
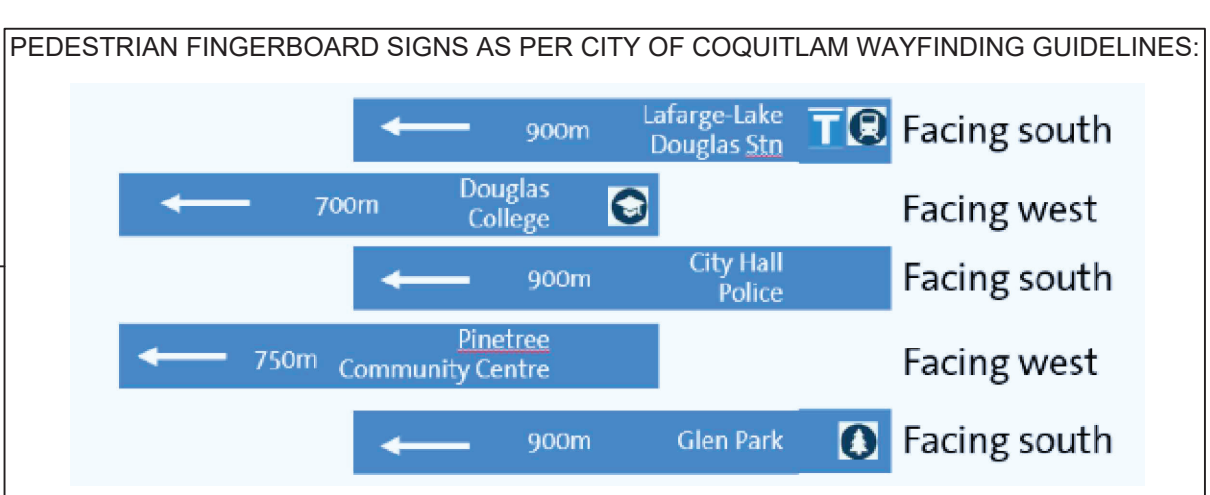
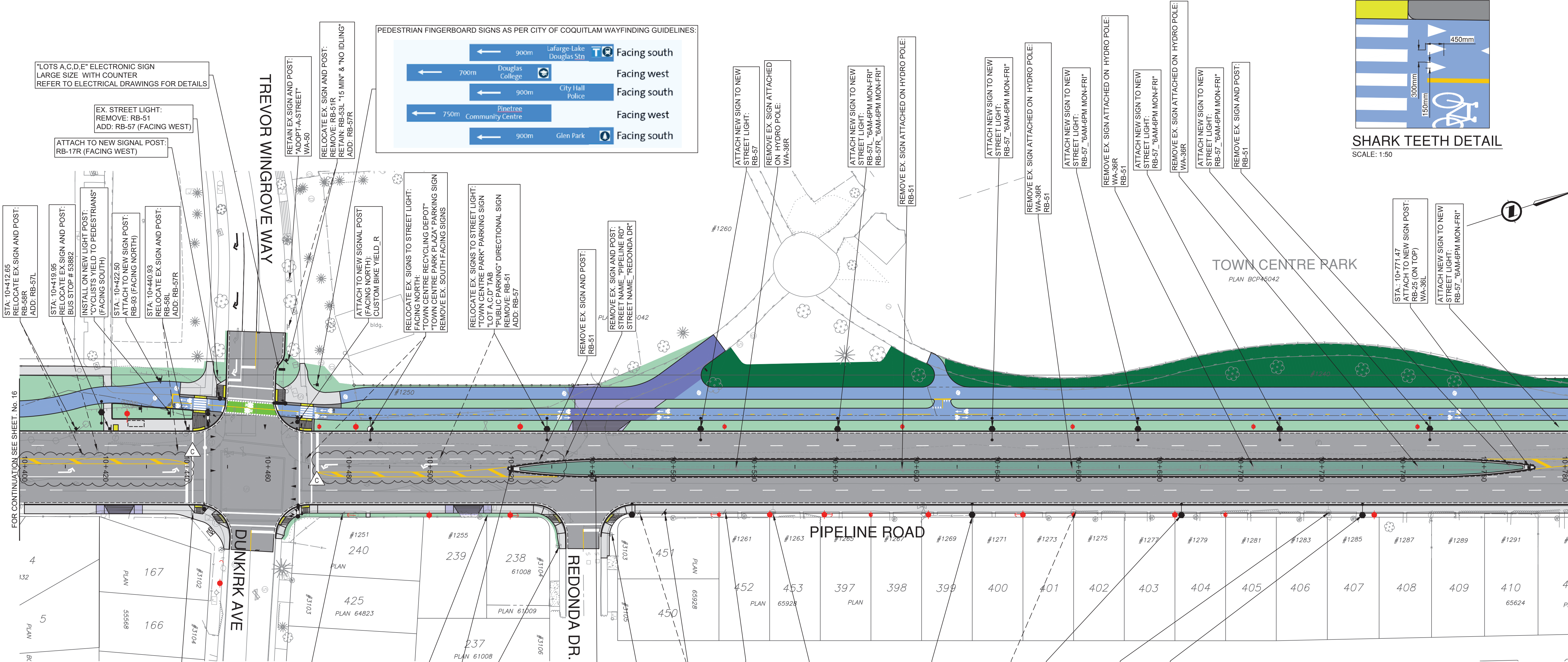
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

**STA 10+180 TO STA 10+400
SIGNAGE**



ISL
#201, 3999 Herring Drive, Burnaby, B.C. V5C 6P9
T: (604)293-2068 F: (604)293-2068

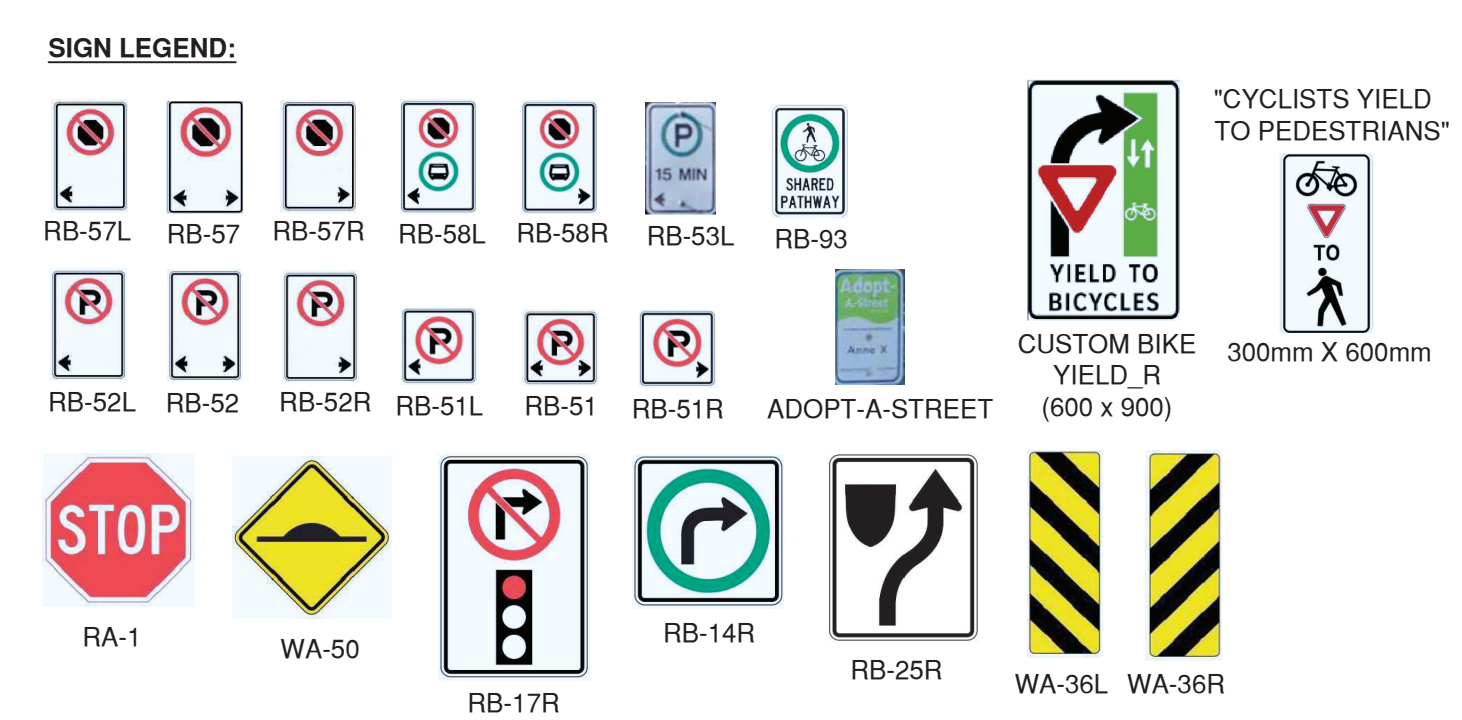
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		APPROVED BY	CJB		REV. C



TOWN CENTRE PARK
PLAN BCP26042

NOTES:

- NEW SIGNAGE POST SLEEVES TO BE IN PLACE PRIOR TO CONCRETE WORKS
- SIGNAGE HEIGHTS AND LATERAL CLEARANCES TO BE AS PER BC MOTI MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS



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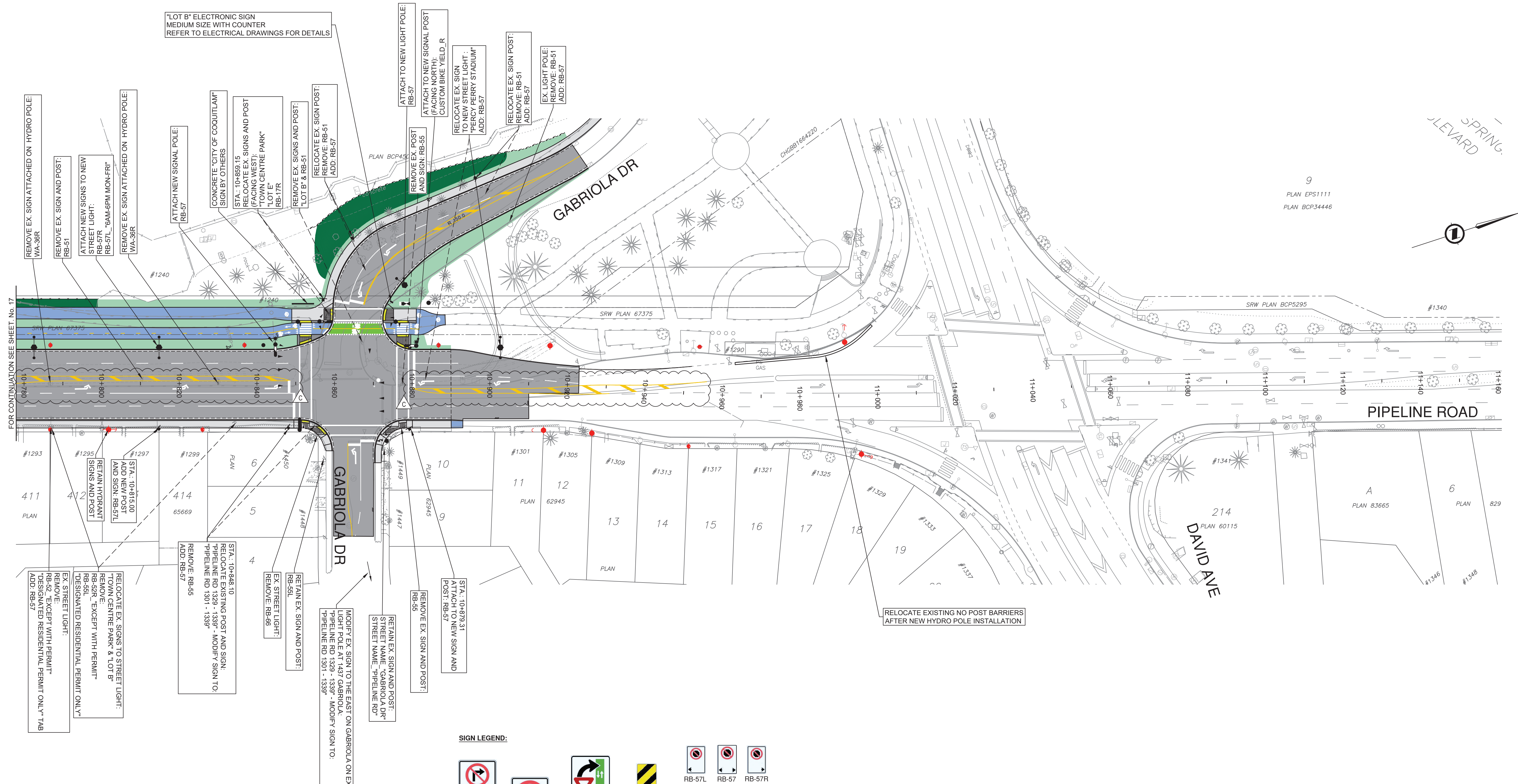
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	ISSUED FOR ADDENDUM 1	2025/02/05		CJB



STA 10+180 TO STA 10+400
SIGNAGE



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DRAWN BY	PM	CREATION DATE	2424/11/01	OF	38
CHECKED BY	CJB	DESIGN BY	CJB	APPROVED BY	CJB
				REV.	C



FOR CONTINUATION SEE SHEET No. 17

"LOT B" ELECTRONIC SIGN
MEDIUM SIZE WITH COUNTER
REFER TO ELECTRICAL DRAWINGS FOR DETAILS

REMOVE EX. SIGN ATTACHED ON HYDRO POLE:
WA-36R
RB-51
ATTACH NEW SIGNALS TO NEW
STREET LIGHT:
RB-57R
RB-57L "6AM-6PM MON-FRI"
REMOVE EX. SIGN ATTACHED ON HYDRO POLE:
WA-36R

ATTACH NEW SIGNAL POLE:
RB-57

CONCRETE "CITY OF COQUITLAM"
SIGN BY OTHERS
STA.: 10+859.15
RELOCATE EX. SIGNS AND POST
(FACING WEST):
"TOWN CENTRE PARK"
"LOT B"
RB-17R
REMOVE EX. SIGNS AND POST:
"LOT B" & RB-51
RELOCATE EX. SIGN POST:
ADD: RB-57
REMOVE: RB-57

ATTACH TO NEW LIGHT POLE:
RB-57

ATTACH TO NEW SIGNAL POST
(FACING NORTH):
CUSTOM BIKE YIELD R

RELOCATE EX. SIGN
TO NEW STREET LIGHT:
"PERCY PERRY STADIUM"
ADD: RB-57

RELOCATE EX. SIGN POST:
REMOVE: RB-51
ADD: RB-57

EX. LIGHT POLE:
REMOVE: RB-51
ADD: RB-57

STA.: 10+848.10
RELOCATE EXISTING POST AND SIGN:
PIPELINE RD 1329 - 1339 - MODIFY SIGN TO:
PIPELINE RD 1301 - 1339
REMOVE: RB-55
ADD: RB-57

RELOCATE EX. SIGNS TO STREET LIGHT:
TOWN CENTRE PARK & LOT B
REMOVE: RB-51
RB-54
"DESIGNATED RESIDENTIAL PERMIT ONLY"
EX. STREET LIGHT:
REMOVE:
RB-52 "EXCEPT WITH PERMIT"
RB-54 "DESIGNATED RESIDENTIAL PERMIT ONLY"
ADD: RB-57

MODIFY EX. SIGN TO THE EAST ON GABRIOLA ON EX.
LIGHT POLE AT 1437 GABRIOLA
PIPELINE RD 1329 - 1339 - MODIFY SIGN TO:
PIPELINE RD 1301 - 1339

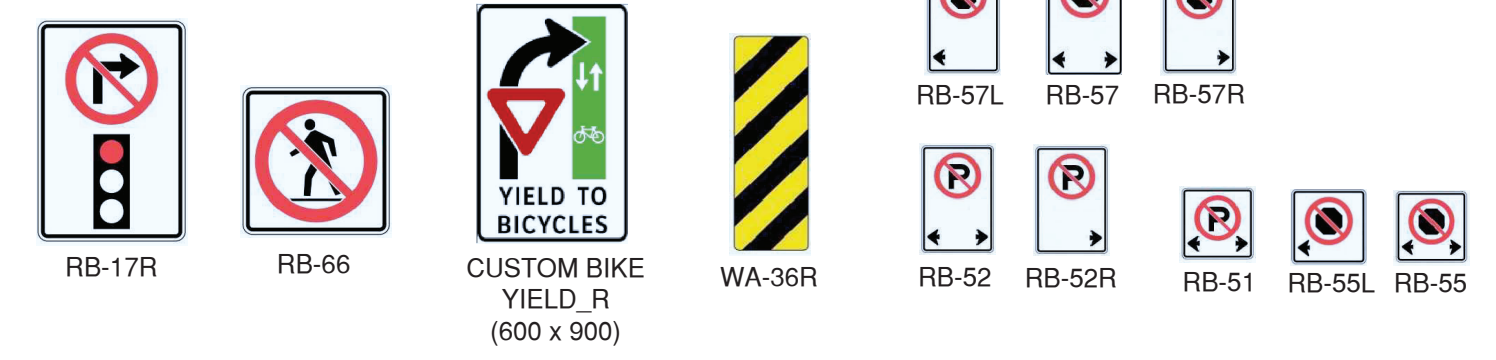
RELOCATE EX. SIGN AND POST:
STREET NAME "GABRIOLA DR"
STREET LIGHT:
REMOVE: RB-55

STA.: 10+979.31
RELOCATE EX. SIGN AND
POST: RB-57

REMOVE EX. SIGN AND POST:
RB-55

RELOCATE EXISTING NO POST BARRIERS
AFTER NEW HYDRO POLE INSTALLATION

SIGN LEGEND:

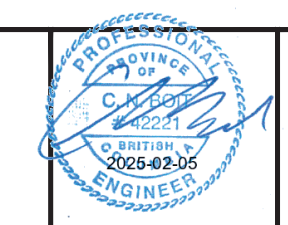


- NOTES:
- NEW SIGNAGE POST SLEEVES TO BE IN PLACE PRIOR TO CONCRETE WORKS
 - SIGNAGE HEIGHTS AND LATERAL CLEARANCES TO BE AS PER BC MOTI MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	DETAILED DESIGN	2024/10/21	GA	CJB
B	ISSUED FOR TENDER	2025/01/21	PM	CJB
	ISSUED FOR ADDENDUM 1	2025/02/05		CJB

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

STA 10+180 TO STA 10+400
SIGNAGE



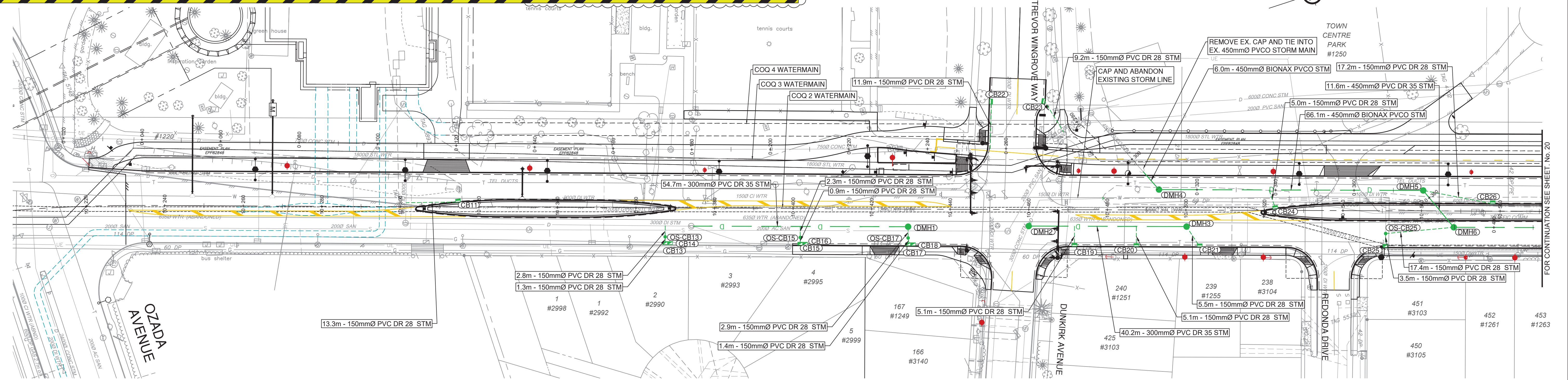
ISL
#201, 3999 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)290-3096 F: (604)290-3098

IFT 1:500 DESIGN NO. **32524**

SCALE	1:500	CREATION DATE	2424/11/01	DWG. NO.	18
DRAWN BY	PM	DESIGN BY	CJB	OF	38
CHECKED BY	CJB	APPROVED BY	CJB	REV.	C

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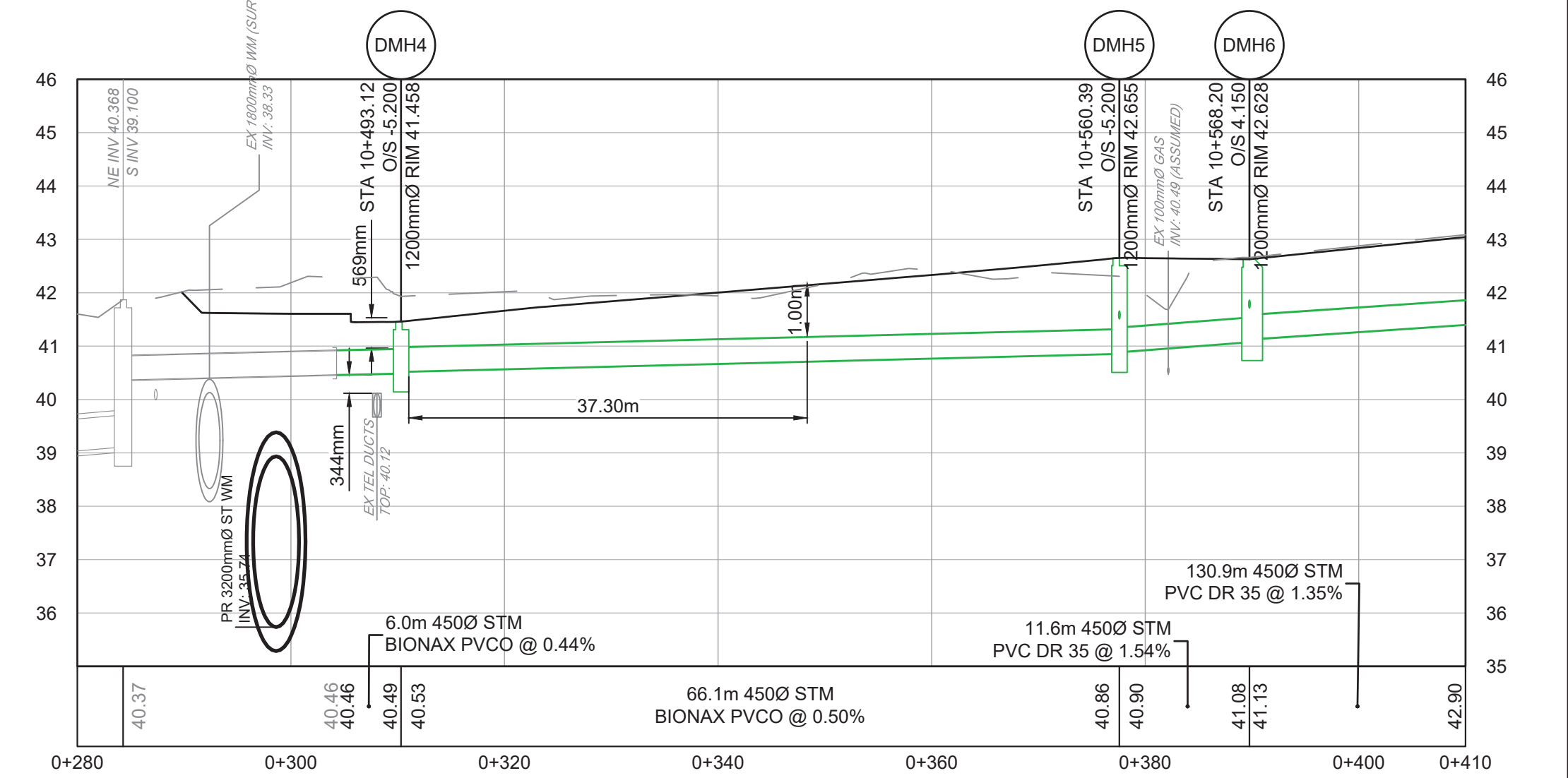
IMPORTANT:
 1. SCOPE AND EXPOSE EX. UTILITIES/SERVICES, AND RECORD LOCATION, SIZE & INVERT ELEVATIONS AT PROP. OR POTENTIAL CROSSINGS PRIOR TO CONSTRUCTION. THE AS-BUILT UNDERGROUND INFORMATION SHOWN ON THIS DRAWING IS DERIVED FROM COMBINATION OF SURVEY AND RECORD DRAWINGS AND REQUIRE CONFIRMATION OF LOCATION PRIOR TO CONSTRUCTION.
 2. OIL AND GAS ACTIVITIES ACT (SEC. 76) REQUIRES WRITTEN PERMISSION MUST BE OBTAINED PRIOR TO ACTIVITY WITHIN THIRTY (30) METRES OF AN INTERMEDIATE PRESSURE PIPELINE OR TRANSMISSION PRESSURE PIPELINE.
 3. CONTRACTOR TO ENSURE MINIMUM COVER OF 1.0m IS MAINTAINED OVER ALL METRO VANCOUVER WATERMANS. NOTIFY PROJECT ENGINEER IF PROPOSED DESIGN GRADES REDUCE COVER BELOW THE MINIMUM.
 4. ALL PROXIMAL WORK WITHIN 2.0m OF EXISTING METRO VANCOUVER WATERMANS MUST BE COMPLETED PRIOR TO APRIL 15, 2025. A REPRESENTATIVE MUST BE ON SITE DURING ALL MV PROXIMAL WORK. THE EXACT LOCATION OF THE EXISTING METRO VANCOUVER WATERMANS, COQ2 (1200mm) AND COQ3 (1800mm) IS NOT CONFIRMED. CONTRACTOR TO PRE-LOCATE AND CONFIRM LOCATION OF THE COQ2 & COQ3 BY HYDROVAC AND REPORT FINDINGS TO ENGINEER MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.



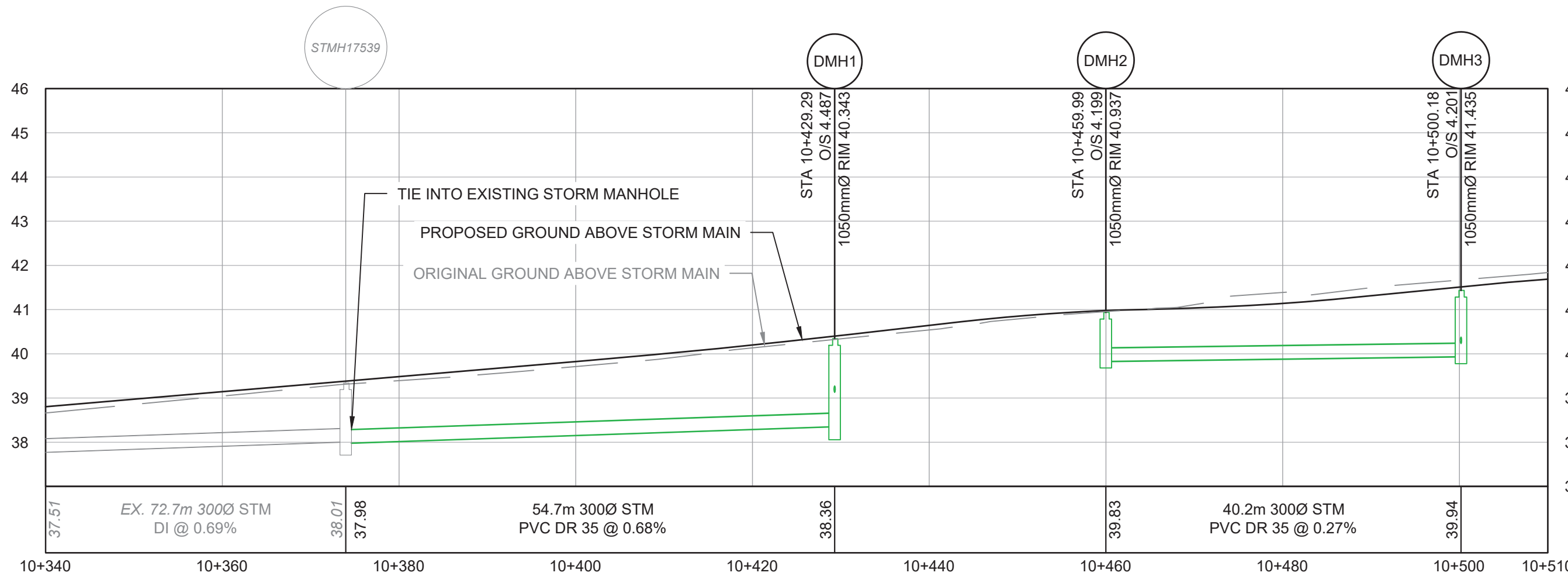
PLAN
SCALE 1:500

CB No.	RIM EL.	LOCATION	TYPE
CB11	38.471	STA. 10+314.716 O/S -1.270 LT	600mm SIDE INLET MEDIAN CATCH BASIN
CB13	39.047	STA. 10+367.435 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B
CB14	39.069	STA. 10+368.695 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B
CB15	39.637	STA. 10+401.837 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B
CB16	39.661	STA. 10+403.087 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B
CB17	40.242	STA. 10+429.301 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B
CB18	40.273	STA. 10+430.551 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B
CB19	40.915	STA. 10+471.660 O/S 9.300 RT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A
CB20	41.094	STA. 10+487.414 O/S 9.300 RT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A
CB21	41.470	STA. 10+503.536 O/S 9.311 RT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A
CB22	41.364	STA. 10+449.947 O/S -27.486 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A
CB23	41.469	STA. 10+463.944 O/S -27.550 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A
CB24	41.879	STA. 10+522.786 O/S -0.462 LT	600mm SIDE INLET MEDIAN CATCH BASIN
CB25	42.153	STA. 10+550.804 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B
CB26	42.923	STA. 10+578.099 O/S -1.900 LT	600mm SIDE INLET MEDIAN CATCH BASIN
OS-CB13	39.123	STA. 10+367.443 O/S 7.350 RT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB15	39.712	STA. 10+401.835 O/S 7.350 RT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB17	40.307	STA. 10+429.301 O/S 7.353 RT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB25	42.252	STA. 10+550.865 O/S 5.801 RT	600mm OFFSET SUMP AS PER COQ-S11B
OS-CB27	43.108	STA. 10+593.110 O/S 5.800 RT	600mm OFFSET SUMP AS PER COQ-S11B

MH No.	RIM EL.	PIPE INV.	LOCATION	TYPE
DMH1	RIM = 40.34	S Out 38.36 E In 39.13	STA. 10+429.293 O/S 4.487 RT	1,050mm MH AS PER MMCD S1
DMH2	RIM = 40.94	N In 39.83	STA. 10+459.985 O/S 4.199 RT	1,050mm MH AS PER MMCD S1
DMH3	RIM = 41.44	S Out 39.94 E In 40.23	STA. 10+500.176 O/S 4.201 RT	1,050mm MH AS PER MMCD S1
DMH4	RIM = 41.46	N Out 40.53 SW In 40.49	STA. 10+493.123 O/S -5.200 LT	1,200mm MH AS PER MMCD S1
DMH5	RIM = 42.65	E In 40.90 S In 40.86 NE In 41.51	STA. 10+560.391 O/S -5.200 LT	1,200mm MH AS PER MMCD S1
DMH6	RIM = 42.63	N Out 41.13 W Out 41.08 S In 41.71	STA. 10+568.201 O/S 4.150 RT	1,200mm MH AS PER MMCD S1



PROFILE
SCALE 1:500H / 1:100V



PROFILE
SCALE 1:500H / 1:100V

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PLOT DATE: February 4, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
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C	ISSUED FOR ADDENDUM 1	2025/02/05	PM	CJB

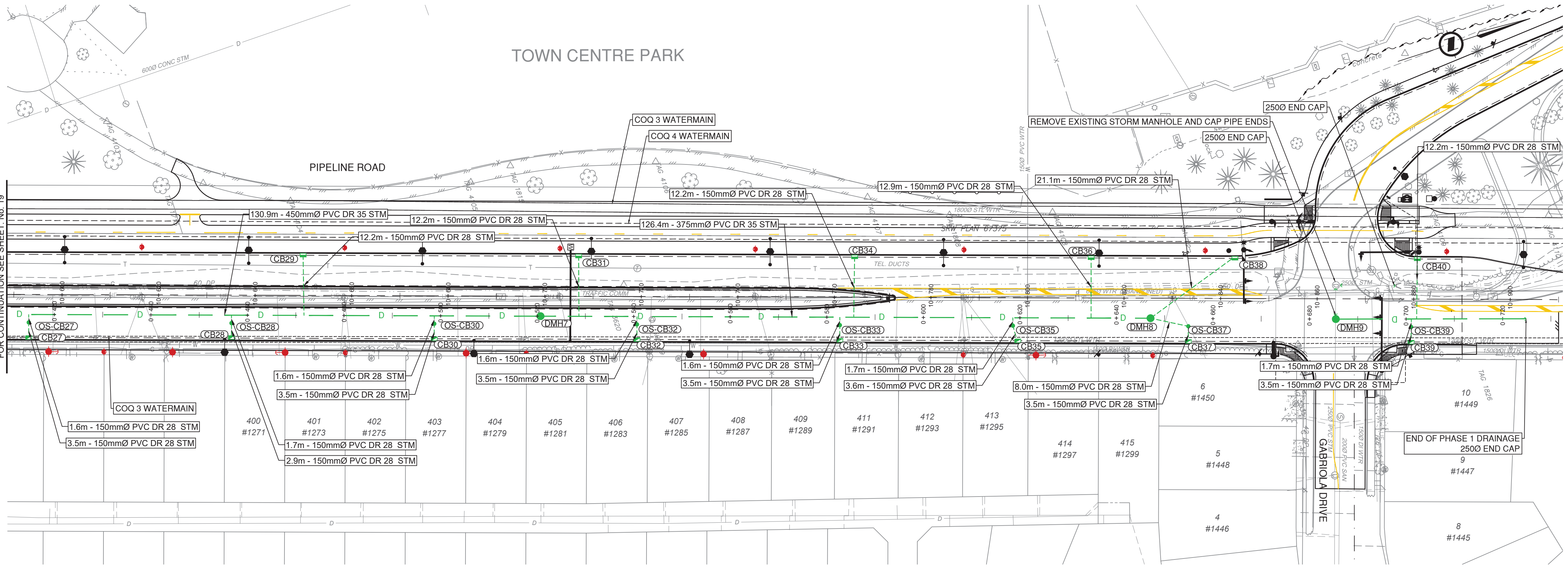


STORM SEWER
 STA 10+210 TO STA 10+590
 PIPELINE ROAD

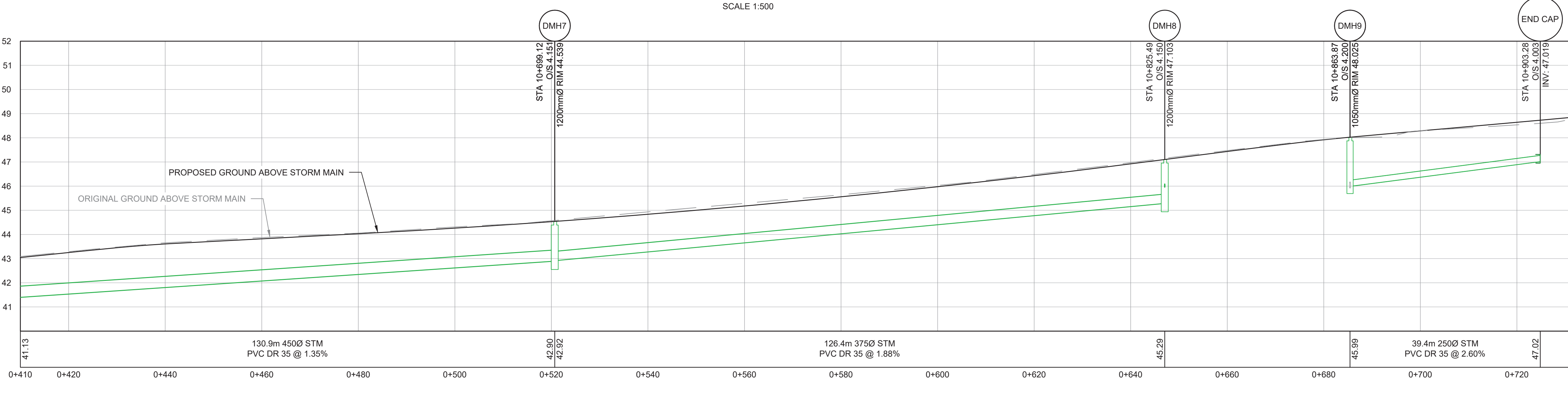


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DRAWN BY	PM	DESIGN BY	CJB	19
CHECKED BY	CJB	APPROVED BY	CJB	38
IFT DESIGN NO. 32524				REV. C

IMPORTANT:
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CATCH BASIN AND OFFSET SUMP TABLE				
CB No.	RIM EL.	LOCATION	TYPE	
CB27	43.001	STA. 10+593.114 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B	
CB28	43.014	STA. 10+635.115 O/S 9.144 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B	
CB29	43.870	STA. 10+649.894 O/S -8.706 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A	
CB30	44.104	STA. 10+677.116 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B	
CB31	44.527	STA. 10+706.975 O/S -8.699 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A	
CB32	44.706	STA. 10+719.117 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B	
CB33	45.472	STA. 10+764.149 O/S -8.712 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A	
CB34	45.670	STA. 10+764.149 O/S -8.712 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A	
CB35	46.281	STA. 10+797.998 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B	
CB36	46.662	STA. 10+813.142 O/S -8.700 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A	
CB37	47.163	STA. 10+833.326 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B	
CB38	47.420	STA. 10+842.926 O/S -8.700 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A	
CB39	48.165	STA. 10+879.473 O/S 9.300 RT	600mm TOP INLET CATCH BASIN C/W OFFSET SUMP PER COQ-S11B	
CB40	48.199	STA. 10+880.714 O/S -8.700 LT	900mm SIDE INLET CATCH BASIN ASSEMBLY AS PER COQ. STD. DWG. COQ-S11A	
OS-CB27	43.108	STA. 10+593.110 O/S 5.800 RT	600mm OFFSET SUMP AS PER COQ-S11B	
OS-CB28	43.106	STA. 10+635.106 O/S 5.800 RT	600mm OFFSET SUMP AS PER COQ-S11B	
OS-CB30	44.211	STA. 10+677.114 O/S 5.801 RT	600mm OFFSET SUMP AS PER COQ-S11B	
OS-CB32	44.813	STA. 10+719.108 O/S 5.800 RT	600mm OFFSET SUMP AS PER COQ-S11B	
OS-CB33	45.579	STA. 10+761.130 O/S 5.800 RT	600mm OFFSET SUMP AS PER COQ-S11B	
OS-CB35	46.364	STA. 10+796.976 O/S 5.800 RT	600mm OFFSET SUMP AS PER COQ-S11B	
OS-CB37	47.270	STA. 10+833.326 O/S 5.801 RT	600mm OFFSET SUMP AS PER COQ-S11B	
OS-CB39	48.381	STA. 10+879.499 O/S 5.803 RT	600mm OFFSET SUMP AS PER COQ-S11B	



STORM MANHOLE TABLE				
MH No.	RIM EL.	PIPE INV.	LOCATION	TYPE
DMH7	RIM = 44.54	N Out 42.92 S In 42.90	STA. 10+699.125 O/S 4.151 RT	1,200mm MH AS PER MMCD S1
DMH8	RIM = 47.10	S In 45.29 NE In 45.95 N In 45.95	STA. 10+825.487 O/S 4.150 RT	1,200mm MH AS PER MMCD S1
DMH9	RIM = 48.03	N In 45.99	STA. 10+863.865 O/S 4.200 RT	1,050mm MH AS PER MMCD S1



PLOT DATE: February 4, 2025

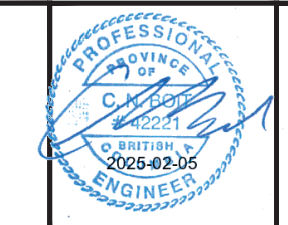
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C	ISSUED FOR ADDENDUM 1	2025/02/05	PM	CJB



STORM SEWER

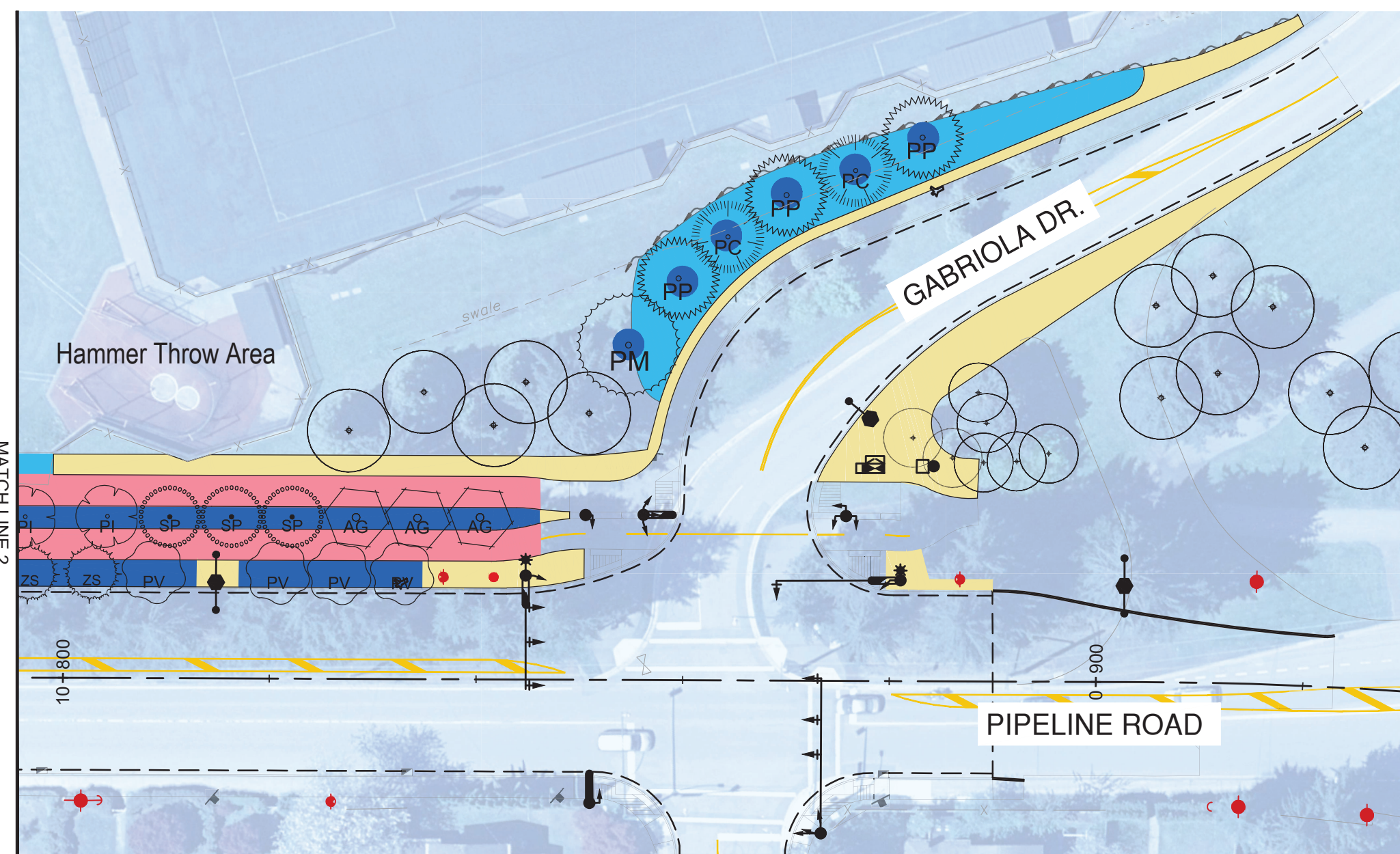
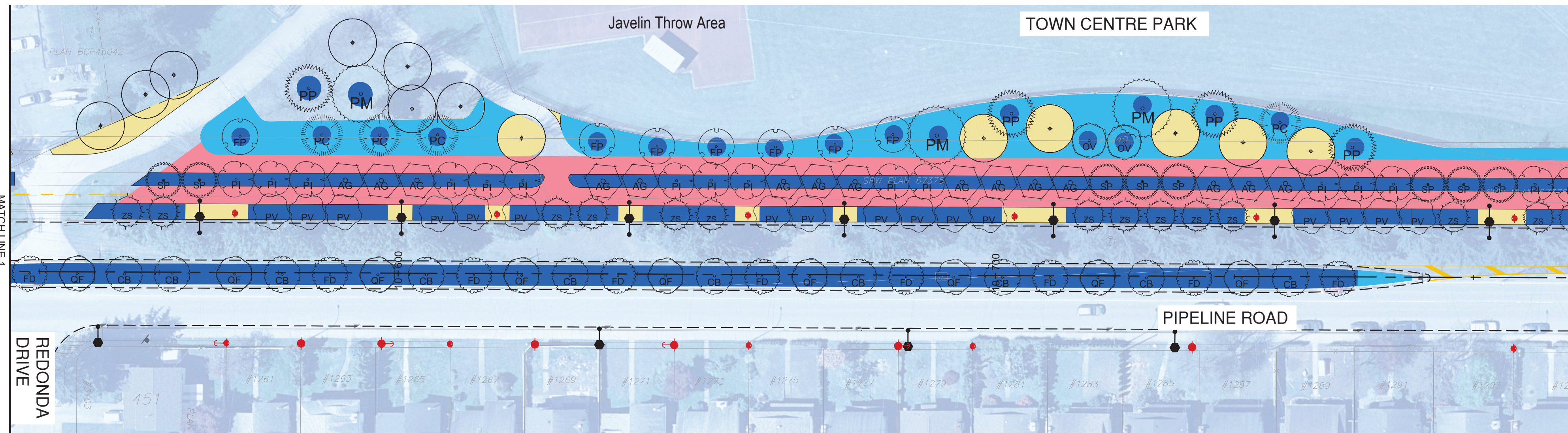
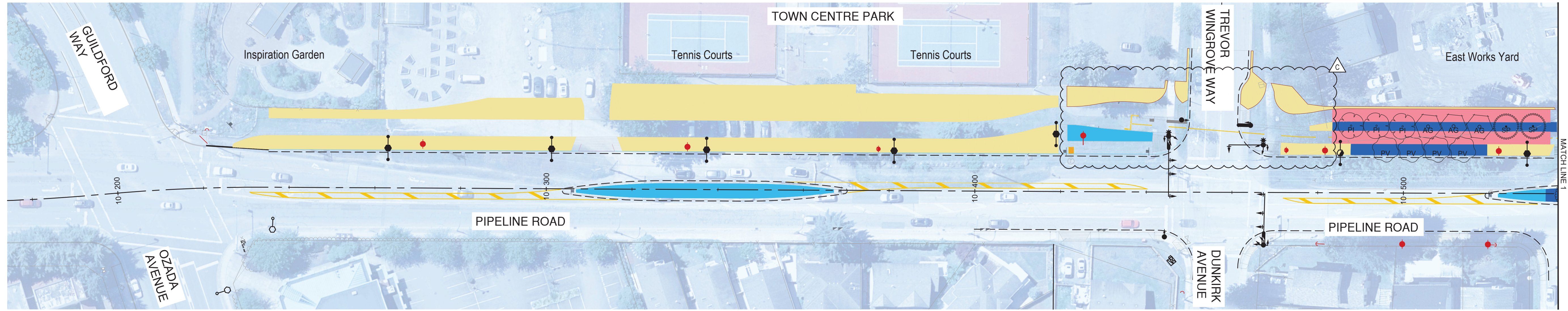
STA 10+590 TO STA 10+910

PIPELINE ROAD



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DRAWN BY		PM		DESIGN BY		CJB		20 OF 38	
CHECKED BY		CJB		APPROVED BY		CJB		REV. C	

32524



LEGEND

- 900mm DEPTH SOIL
- 450mm DEPTH SOIL
- 150mm DEPTH SOIL
- 900mm DEPTH STRUCTURAL SOIL
- 150mm DEPTH SOIL TREE PROTECTION AREA

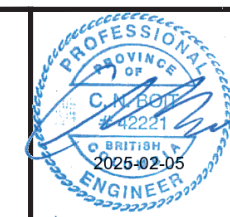
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PLOT DATE: February 5, 2025

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B	ISSUED FOR TENDER	2024/12/12	ML	AR
C	ISSUED FOR ADDENDUM 1	2025/02/05	ML	AR

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

SOILS PLAN
PIPELINE ROAD

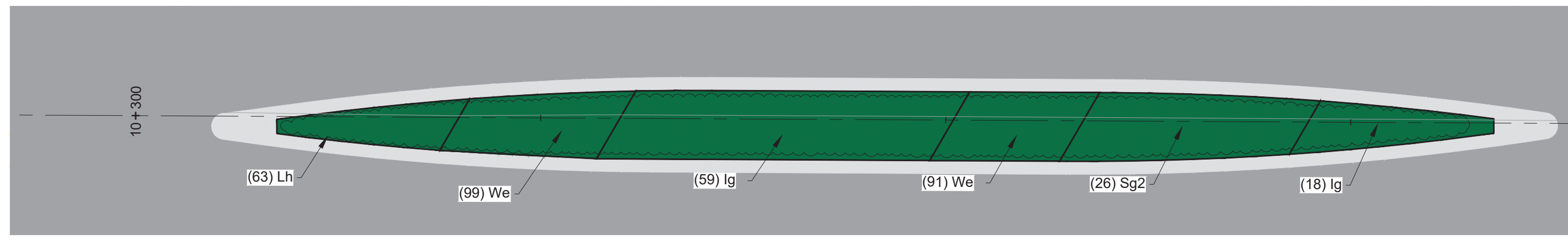


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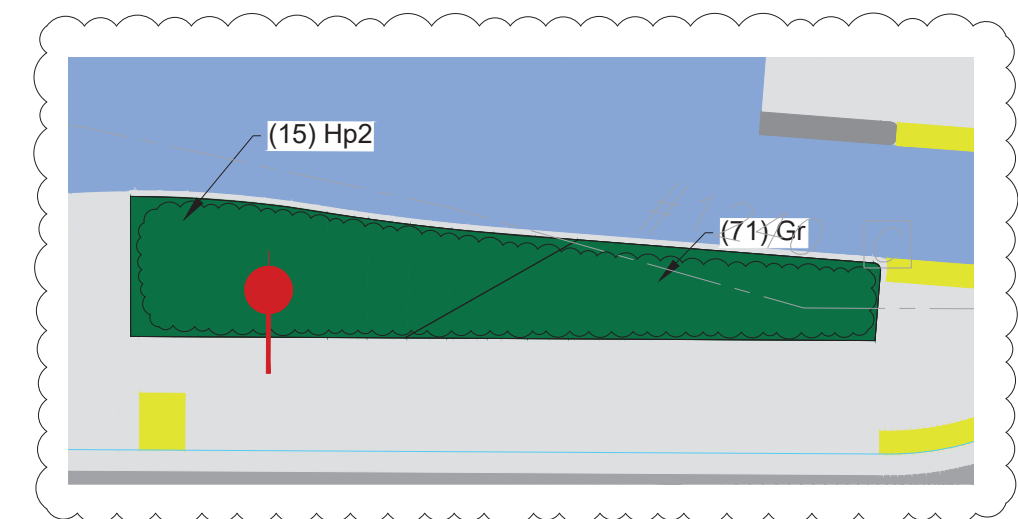
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DRAWN BY	EZ	DESIGN BY	AR	22 OF 38
CHECKED BY	CJB	APPROVED BY	CJB	REV. C

IFT DESIGN NO. **32524**

ALL SHRUB PLANTINGS AND BARK MULCH INSTALLATIONS BY OTHERS.



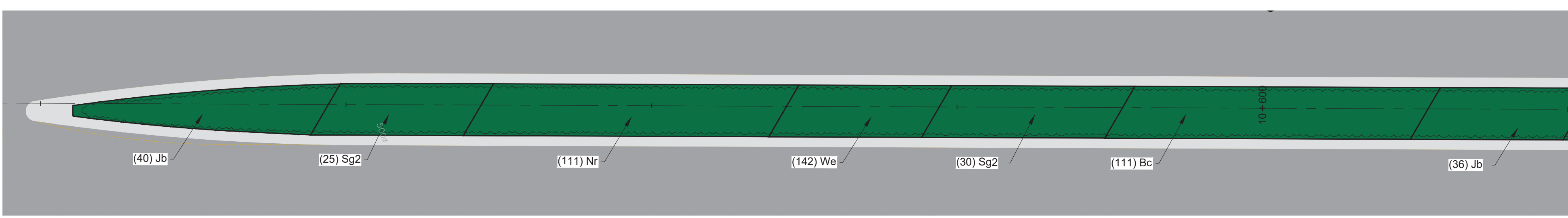
1 PLANTING BED A
24 PLAN 1:200



2 PLANTING BED A CONTINUED
24 PLAN 1:200

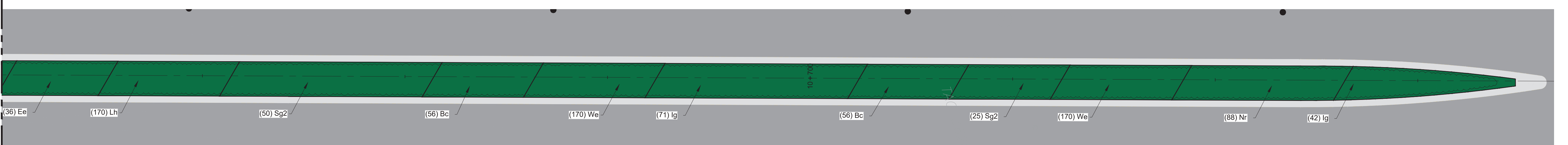
PLANT SCHEDULE L-02

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE	SPACING
MEDIAN BEDS						
Bc	223	Berberis thunbergii 'Crimson Pygmy'	Crimson Pygmy Japanese Barberry	#2 Pot	800mm O.C.	800 mm
Ee	36	Euonymus fortunei 'Emerald 'n Gold'	Emerald 'n Gold Wintercreeper	#2 Pot	1000mm O.C.	1,000 mm
Ig	190	Ilex crenata 'Green Thumb'	Green Thumb Japanese Holly	#2 Pot	1000mm O.C.	1,000 mm
Jb	76	Juniperus squamata 'Blue Star'	Blue Star Juniper	#2 Pot	1000mm O.C.	1,000 mm
Lh	233	Lavandula angustifolia 'Hidcote Blue'	Hidcote Blue English Lavender	#2 Pot	500mm O.C.	500 mm
Nr	199	Nepeta racemosa 'Walker's Low'	Walker's Low Catmint	#2 Pot	800mm O.C.	800 mm
Sg2	156	Spiraea japonica 'Goldmound'	Goldmound Japanese Spirea	#2 Pot	1200mm O.C.	1,200 mm
We	672	Weigela florida 'Elvera'	Midnight Wine® Weigela	#2 Pot	500mm O.C.	500 mm
PARK BEDS						
Cb2	21	Cimicifuga racemosa 'Brunette'	Snakeroot	#2 Pot	1500mm O.C.	1,500 mm
Ew	165	Euphorbia characias wulfenii	Evergreen Spurge	#2 Pot	1000mm O.C.	1,000 mm
Gr	662	Geranium x 'Rozanne'	Rozanne Cranesbill	#2 Pot	600mm O.C.	600 mm
Hp2	99	Hebe pinguifolia 'Pagei'	Page Hebe	#2 Pot	1500mm O.C.	1,500 mm
Ha2	116	Helleborus 'Ivory Prince'	Lenten Rose	#2 Pot	450mm O.C.	450 mm
Lp2	32	Lonicera pileata	Privet Honeysuckle	#2 Pot	2000mm O.C.	2,000 mm
Np	268	Nandina domestica 'Firepower'	Firepower Heavenly Bamboo	#2 Pot	600mm O.C.	600 mm
Pb	22	Philadelphus x 'Belle Etoile'	Mock Orange	#2 Pot	2200mm O.C.	2,200 mm
Rs	74	Rosa x 'Scarlet Meidiland'	Scarlet Meidiland Rose	#2 Pot	1000mm O.C.	1,000 mm
Sb2	31	Sambucus nigra 'Black Beauty'	Black Beauty Elderberry	#2 Pot	2000mm O.C.	2,000 mm
Sh	82	Sarcococca hookeriana humilis	Trailing Sweetbox	#2 Pot	1200mm O.C.	1,200 mm
Wr	76	Weigela florida 'Alexandra'	Wine and Roses Weigela	#2 Pot	1500mm O.C.	1,500 mm

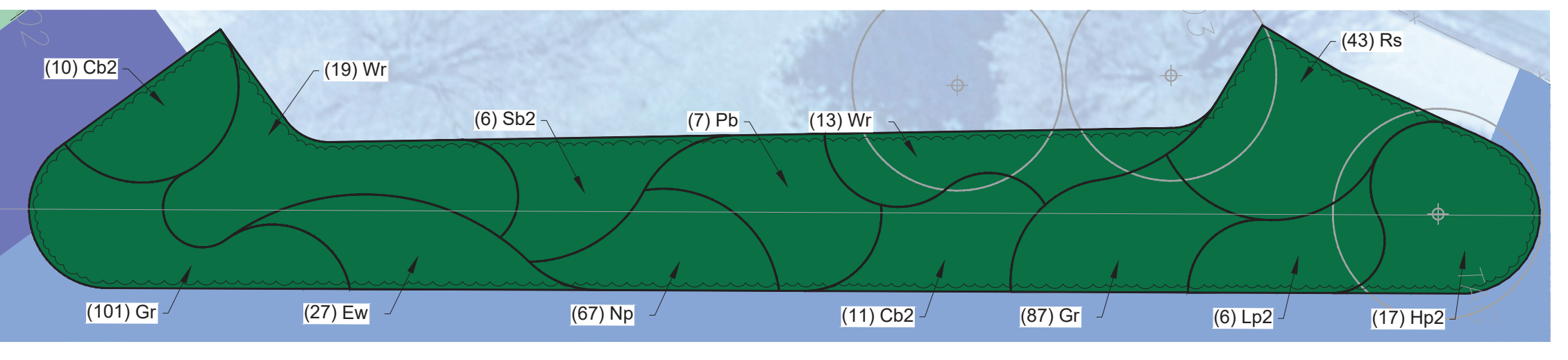


3 PLANTING BED B
24 PLAN 1:200

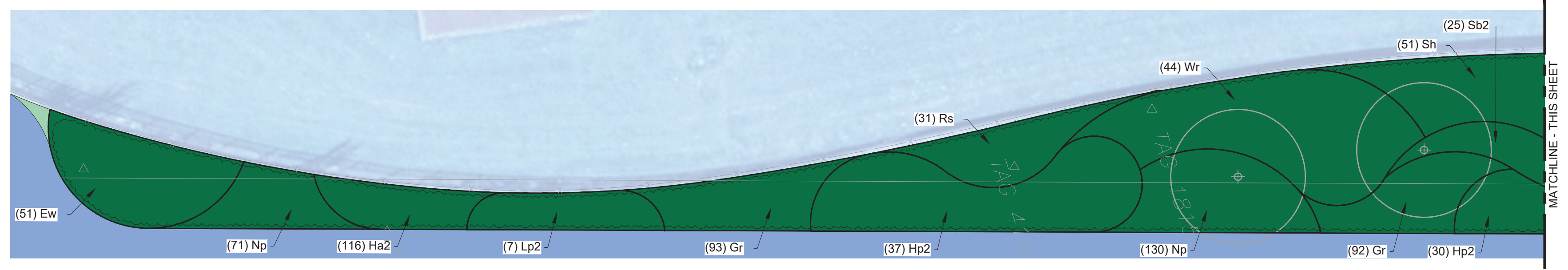
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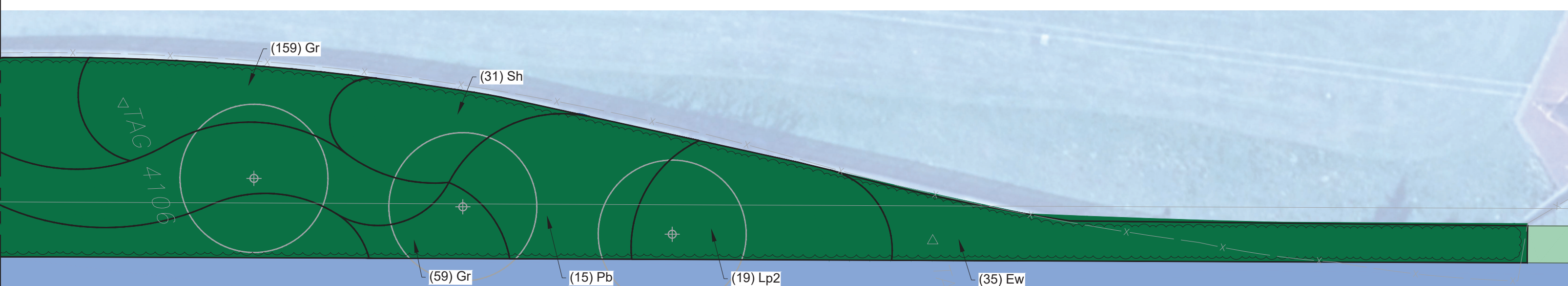
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24 PLAN 1:200



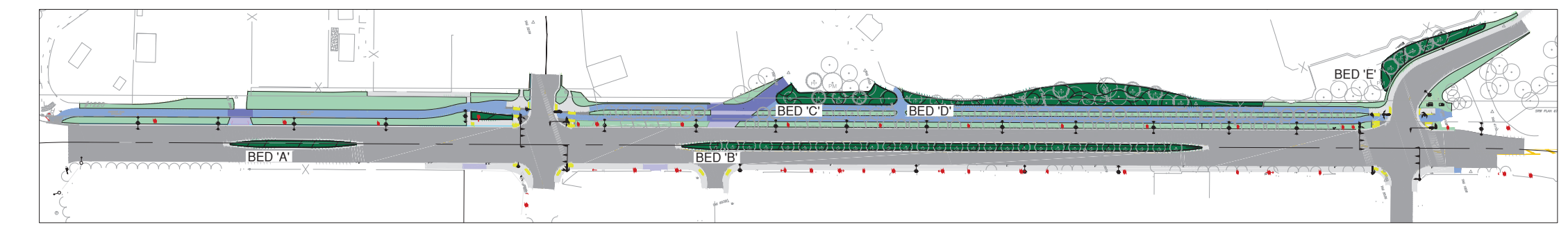
5 PLANTING BED C
24 PLAN 1:200



6 PLANTING BED D
24 PLAN 1:200



7 PLANTING BED D CONTINUED
24 PLAN 1:200



KEY PLAN



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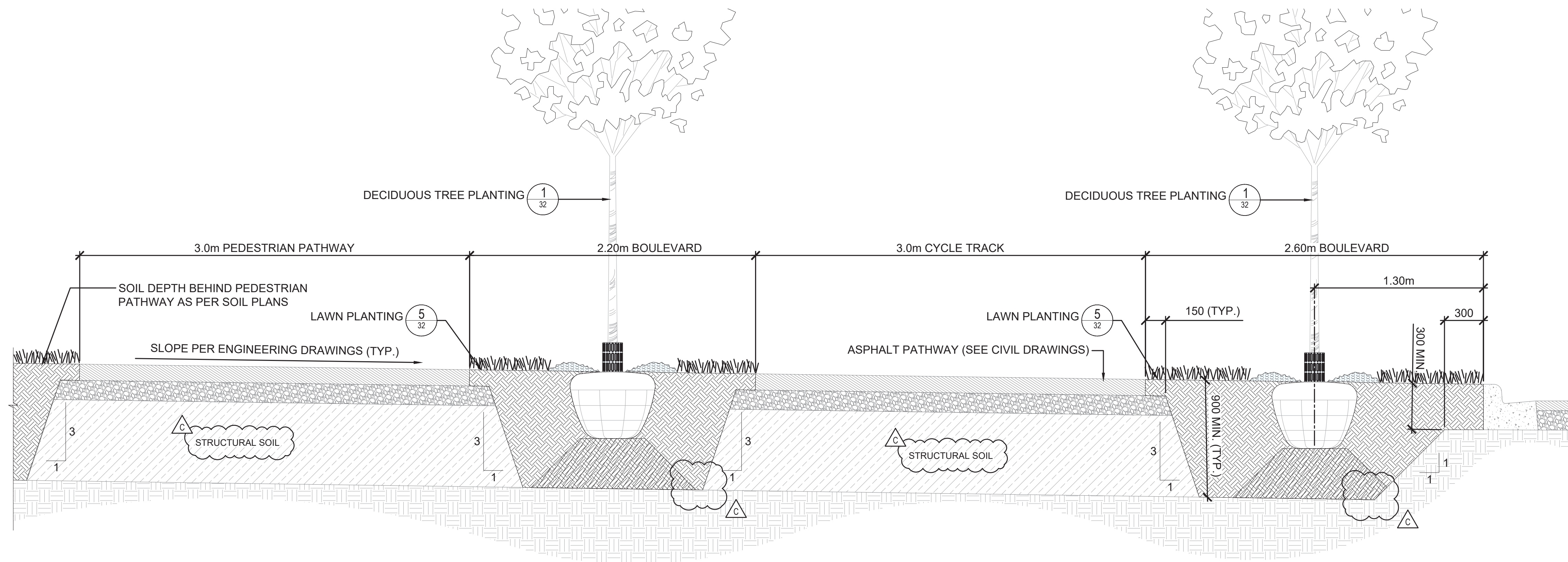


SHRUB PLANTING
PIPELINE ROAD



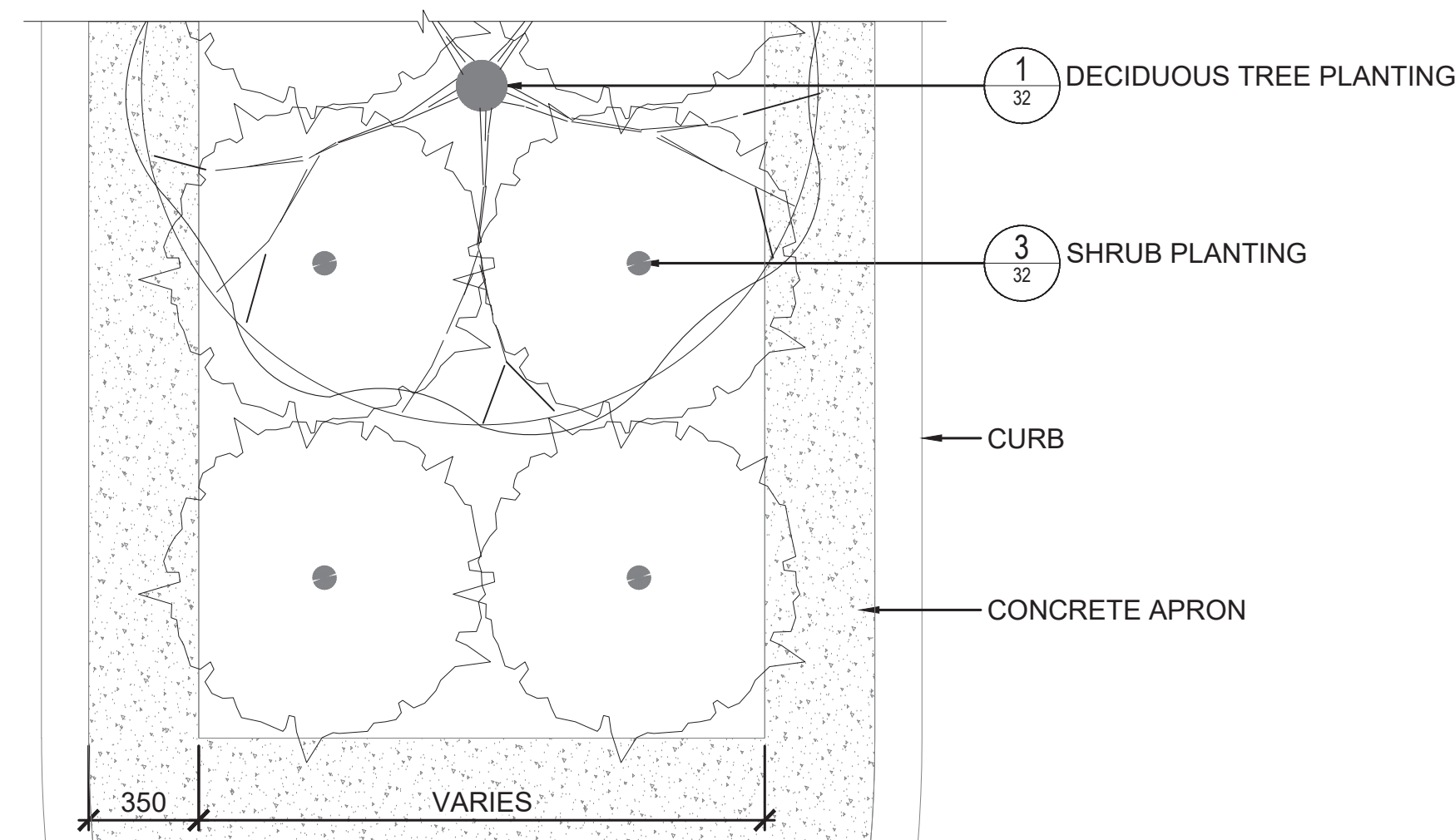
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CHECKED BY	CJB	APPROVED BY	CJB	REV.	C

32524

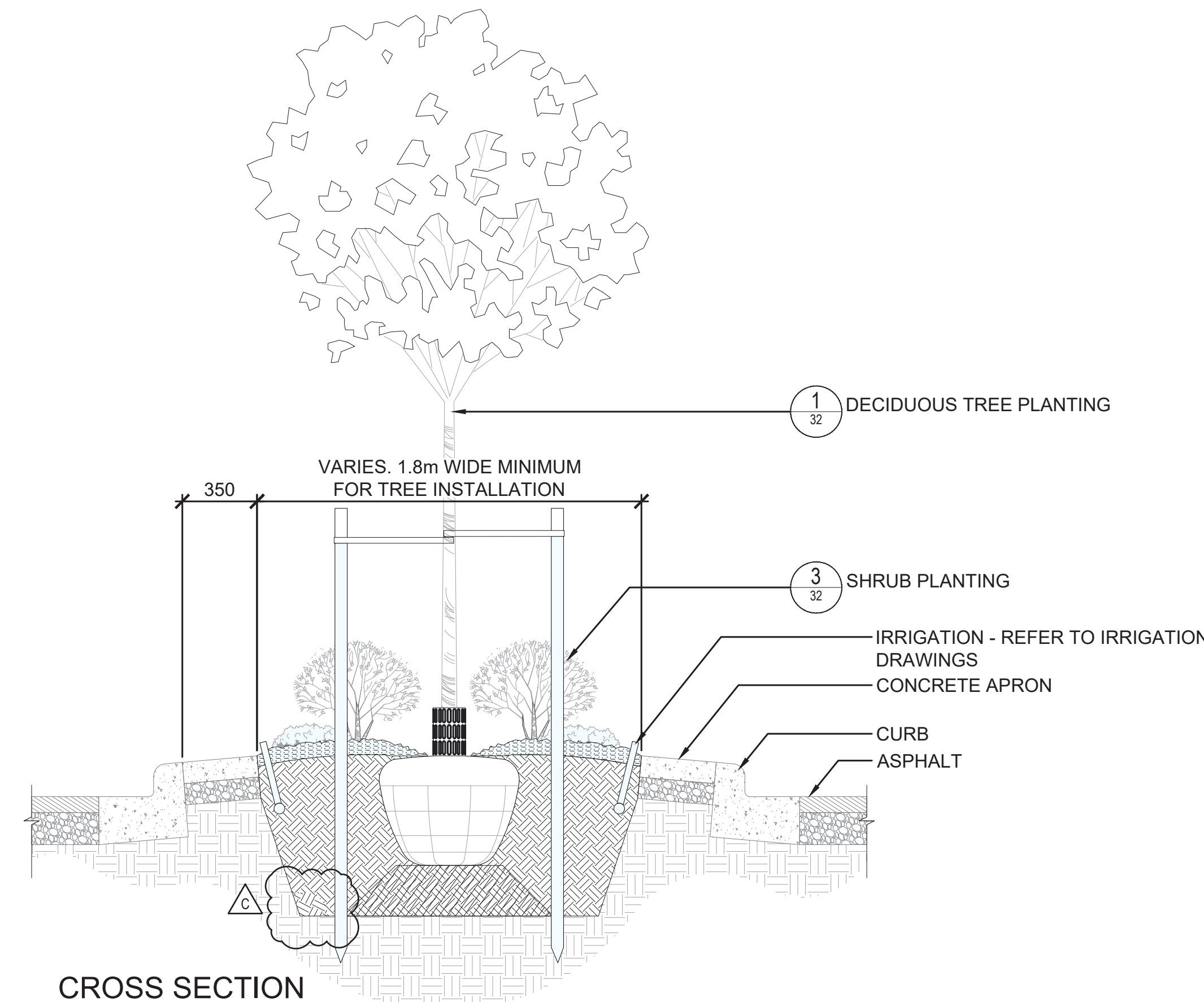


1 BOULEVARD TREE PLANTING SECTION

1:20



PLAN VIEW



CROSS SECTION

1:20

2 MEDIAN PLANTING

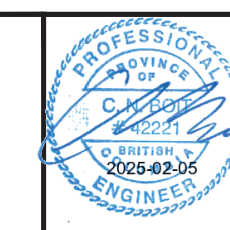
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PLOT DATE: February 5, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
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Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

LANDSCAPE DETAILS 1
PIPELINE ROAD



#201, 3999 Herring Drive, Burnaby, B.C. V5C 6P9
T: (604)293-2696 F: (604)293-2698

SCALE	AS SHOWN	CREATION DATE	2424/11/01	DWG. NO.
DRAWN BY	EZ	DESIGN BY	AR	26 OF 38
CHECKED BY	CJB	APPROVED BY	CJB	REV. C

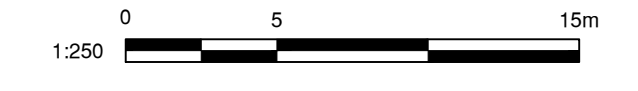
32524

IFT DESIGN NO.



Symbol	Description	Part Number	Pressure	Flow	Radius
○	Rain Bird 10F - 1812-SAM-PRS	10F	30 psi	1.58 gpm	10 ft
○	Rain Bird 10H - 1812-SAM-PRS	10H	30 psi	0.79 gpm	10 ft
○	Rain Bird 12F - 1812-SAM-PRS	12F	30 psi	2.8 gpm	12 ft
○	Rain Bird 12H - 1812-SAM-PRS	12H	30 psi	1.5 gpm	12 ft
○	Rain Bird 12Q - 1812-SAM-PRS	12Q	30 psi	0.65 gpm	12 ft
●	Rain Bird 1450 - Root Watering System	1450	30 psi	0.9 gpm	0 ft
○	Rain Bird 15F - 1812-SAM-PRS	15F	30 psi	3.7 gpm	15 ft
○	Rain Bird 15H - 1812-SAM-PRS	15H	30 psi	1.95 gpm	15 ft
○	Rain Bird 5H - 1812-SAM-PRS	5H	30 psi	0.4 gpm	5 ft
○	Rain Bird 5Q - 1812-SAM-PRS	5Q	30 psi	0.1 gpm	5 ft
○	Rain Bird 8F - 1812-SAM-PRS	8F	30 psi	1.05 gpm	8 ft
○	Rain Bird 8H - 1812-SAM-PRS	8H	30 psi	0.52 gpm	8 ft
○	Rain Bird HE-VAN-08 180° - 1812-SAM-PRS	HE-VAN-08	30 psi	0.59 gpm	8 ft
○	Rain Bird HE-VAN-08 90° - 1812-SAM-PRS	HE-VAN-08	30 psi	0.59 gpm	8 ft
○	Rain Bird HE-VAN-10 180° - 1812-SAM-PRS	HE-VAN-10	30 psi	0.89 gpm	10 ft
○	Rain Bird HE-VAN-12 180° - 1812-SAM-PRS	HE-VAN-12	30 psi	1.18 gpm	12 ft
○	Rain Bird HE-VAN-12 270° - 1812-SAM-PRS	HE-VAN-12	30 psi	1.77 gpm	12 ft
○	Rain Bird HE-VAN-12 90° - 1812-SAM-PRS	HE-VAN-12	30 psi	0.89 gpm	12 ft
○	Rain Bird HE-VAN-15 180° - 1812-SAM-PRS	HE-VAN-15	30 psi	1.85 gpm	15 ft
○	Rain Bird R-VAN18 120° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.67 gpm	17 ft
○	Rain Bird R-VAN18 150° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.93 gpm	17 ft
○	Rain Bird R-VAN18 180° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.01 gpm	17 ft
○	Rain Bird R-VAN18 240° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.34 gpm	17 ft
○	Rain Bird R-VAN18 300° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.8 gpm	17 ft
○	Rain Bird R-VAN18 360° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.5 gpm	17 ft
○	Rain Bird R-VAN24 180° - 1812-SAM-PRS-P45	R-VAN24	45 psi	1.66 gpm	23 ft
○	Rain Bird R-VAN24 240° - 1812-SAM-PRS-P45	R-VAN24	45 psi	2.24 gpm	23 ft
○	Rain Bird R-VAN24 360° - 1812-SAM-PRS-P45	R-VAN24	45 psi	3.48 gpm	23 ft
○	Rain Bird R-VAN24 90° - 1812-SAM-PRS-P45	R-VAN24	45 psi	0.94 gpm	23 ft

Water Supply	
○	12" Point of Connection - See Details
Control Valves	
⊗	Toro P220-26-04 P220-26-04
⊗	Toro P220-26-06 P220-26-06
⊗	Toro P220-26-08 P220-26-08
Y-Strainers / Filters	
⊗	Rain Bird LCRBY1000 LCRBY1000
⊗	Rain Bird LCRBY1500 LCRBY1500
Isolation Valves	
⊗	12" gate valve
Irrigation Accessories	
⊗	Toro - DXI TWO-WIRE IN SS PEDESTAL DXI-SPEOTW
⊗	Toro TFS-200 Flow Sensor
Lateral Line Pipe	
—	Class 200 - size as shown, colour coded by zone
----	Class 200 2"
Sleeving	
▨	Schedule 40 - 2"
▨	Schedule 40 - 4"



File: C:\ADSKACAD\Projects\32524\Project Files\02_CADD\02_Drafting\2025_Sheets\32524_SH_10_IRRIGATION.dwg

PLOT DATE: February 6, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2025/01/21	KE	CJB
B	ISSUED FOR ADDENDUM 1	2025/02/06	KE	CJB

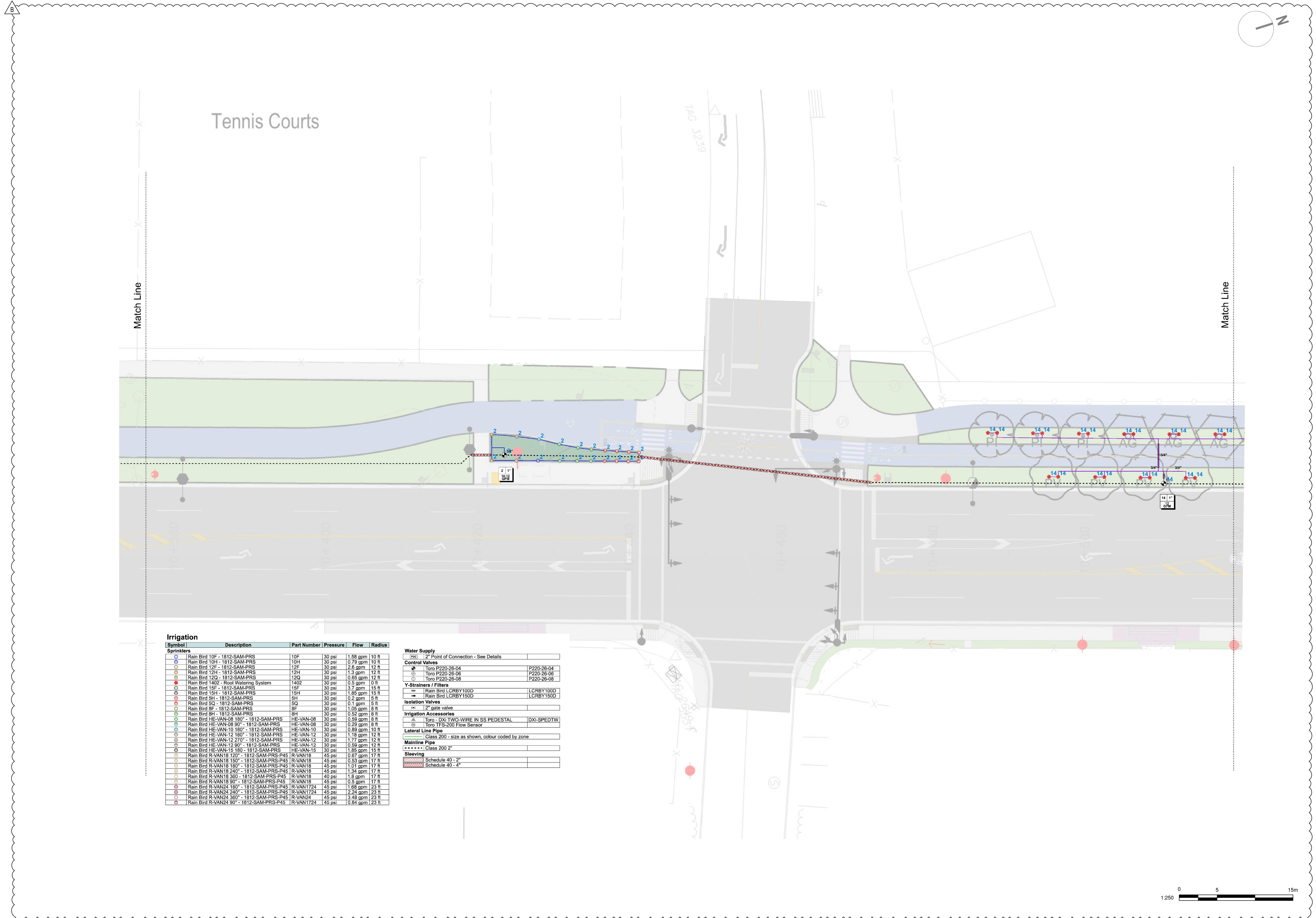
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

IRRIGATION STA 10+220 TO STA 10+390
PIPELINE ROAD



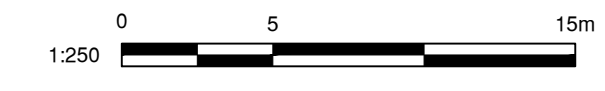
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AS SHOWN		32524		2424/11/01		33	
DRAWN BY	KE	DESIGN BY	CJB			OF	
CHECKED BY	CJB	APPROVED BY	CJB			38	
						REV.	B

DESTROY ALL PRINTS BEARING PREVIOUS NO.



Symbol	Description	Part Number	Pressure	Flow	Radius
○	Rain Bird 10F - 1812-SAM-PRS	10F	30 psi	1.58 gpm	10 ft
○	Rain Bird 10H - 1812-SAM-PRS	10H	30 psi	0.79 gpm	10 ft
○	Rain Bird 12F - 1812-SAM-PRS	12F	30 psi	2.8 gpm	12 ft
○	Rain Bird 12H - 1812-SAM-PRS	12H	30 psi	1.3 gpm	12 ft
○	Rain Bird 12Q - 1812-SAM-PRS	12Q	30 psi	0.65 gpm	12 ft
●	Rain Bird 1400 - Root Watering System	1400	30 psi	0.5 gpm	10 ft
○	Rain Bird 15F - 1812-SAM-PRS	15F	30 psi	3.7 gpm	15 ft
○	Rain Bird 15H - 1812-SAM-PRS	15H	30 psi	1.90 gpm	15 ft
○	Rain Bird 8H - 1812-SAM-PRS	8H	30 psi	0.4 gpm	8 ft
○	Rain Bird 8Q - 1812-SAM-PRS	8Q	30 psi	0.1 gpm	8 ft
○	Rain Bird 8F - 1812-SAM-PRS	8F	30 psi	1.05 gpm	8 ft
○	Rain Bird 8H - 1812-SAM-PRS	8H	30 psi	0.52 gpm	8 ft
○	Rain Bird HE-VAN-08 180° - 1812-SAM-PRS	HE-VAN-08	30 psi	0.59 gpm	8 ft
○	Rain Bird HE-VAN-08 90° - 1812-SAM-PRS	HE-VAN-08	30 psi	0.29 gpm	8 ft
○	Rain Bird HE-VAN-10 180° - 1812-SAM-PRS	HE-VAN-10	30 psi	0.89 gpm	10 ft
○	Rain Bird HE-VAN-12 180° - 1812-SAM-PRS	HE-VAN-12	30 psi	1.18 gpm	12 ft
○	Rain Bird HE-VAN-12 270° - 1812-SAM-PRS	HE-VAN-12	30 psi	1.77 gpm	12 ft
○	Rain Bird HE-VAN-12 90° - 1812-SAM-PRS	HE-VAN-12	30 psi	0.59 gpm	12 ft
○	Rain Bird HE-VAN-15 180° - 1812-SAM-PRS	HE-VAN-15	30 psi	1.93 gpm	15 ft
○	Rain Bird R-VAN18 120° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.97 gpm	17 ft
○	Rain Bird R-VAN18 150° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.53 gpm	17 ft
○	Rain Bird R-VAN18 180° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.01 gpm	17 ft
○	Rain Bird R-VAN18 240° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.34 gpm	17 ft
○	Rain Bird R-VAN18 300° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.8 gpm	17 ft
○	Rain Bird R-VAN18 90° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.5 gpm	17 ft
○	Rain Bird R-VAN24 180° - 1812-SAM-PRS-P45	R-VAN24	45 psi	1.99 gpm	23 ft
○	Rain Bird R-VAN24 240° - 1812-SAM-PRS-P45	R-VAN24	45 psi	2.24 gpm	23 ft
○	Rain Bird R-VAN24 360° - 1812-SAM-PRS-P45	R-VAN24	45 psi	3.48 gpm	23 ft
○	Rain Bird R-VAN24 90° - 1812-SAM-PRS-P45	R-VAN24	45 psi	0.94 gpm	23 ft

Water Supply	
○	12" Point of Connection - See Details
Control Valves	
⊗	Toro P220-26-04 P220-26-04
⊗	Toro P220-26-08 P220-26-08
⊗	Toro P220-26-08 P220-26-08
Y-Strainers / Filters	
⊗	Rain Bird LCRBY1000 LCRBY1000
⊗	Rain Bird LCRBY1500 LCRBY1500
Isolation Valves	
⊗	12" gate valve
Irrigation Accessories	
⊗	Toro DXI TWO-WIRE IN SS PEDESTAL DXI-SPEOTW
⊗	Toro IFS-200 Flow Sensor
Lateral Line Pipe	
—	Class 200 - size as shown, colour coded by zone
Mainline Pipe	
—	Schedule 40 - 2"
—	Schedule 40 - 4"



File: C:\ASKKAC\CD\02\132524\Project\Files\02_CADD\00_Drafting\2025_Sheets\32524_SH_10_IRRIGATION.dwg

PLOT DATE: February 6, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2025/01/21	KE	CJB
B	ISSUED FOR ADDENDUM 1	2025/02/06	KE	CJB



IRRIGATION

STA 10+390 TO STA 10+540

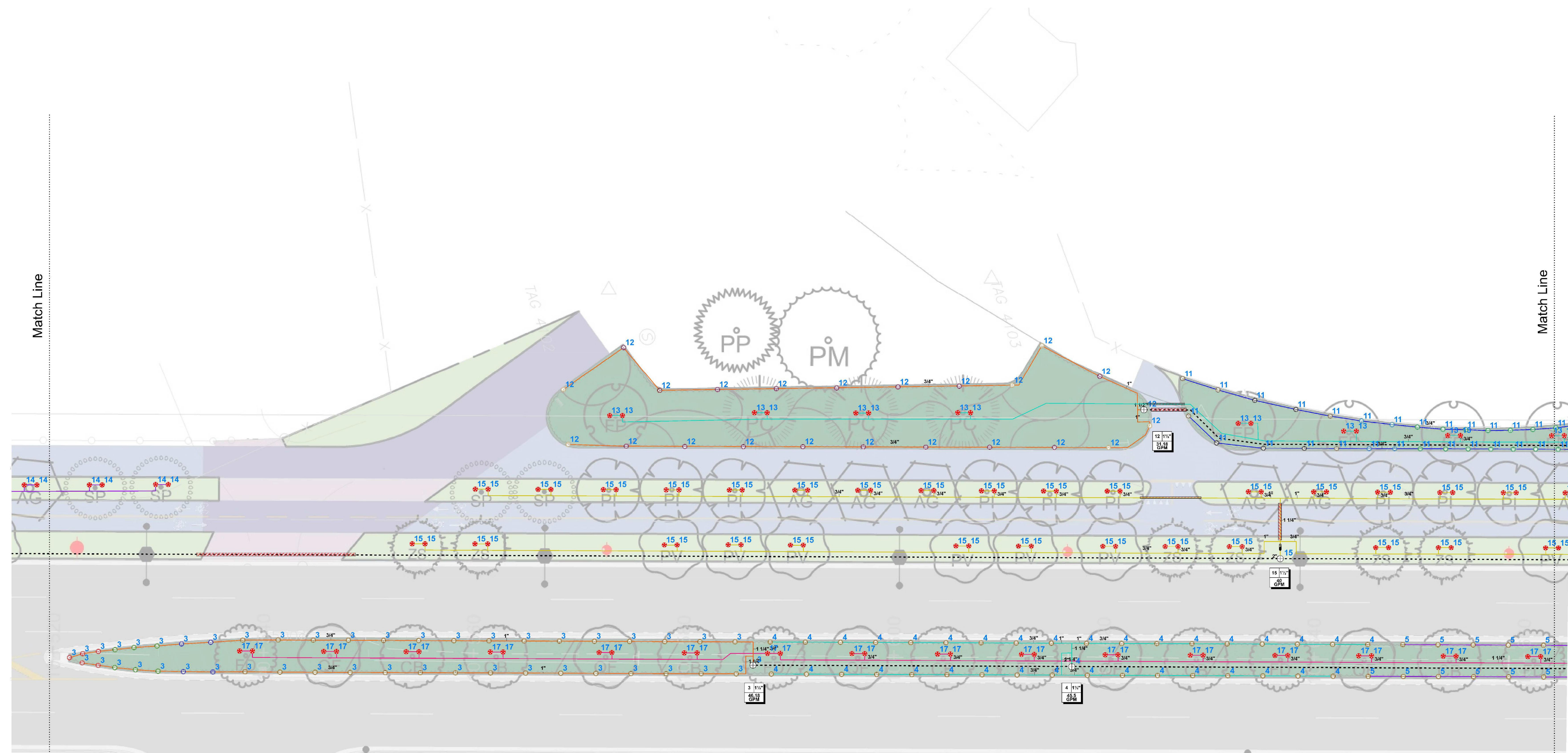
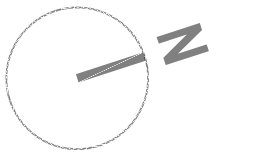
PIPELINE ROAD



SCALE		AS SHOWN		CREATION DATE		2424/11/01		DWG. NO.	
DRAWN BY		KE		DESIGN BY		CJB		34 OF 38	
CHECKED BY		CJB		APPROVED BY		CJB		REV. B	

32524

IFT DESIGN NO.



Symbol	Description	Part Number	Pressure	Flow	Radius
○	Rain Bird 10F - 1812-SAM-PRS	10F	30 psi	1.58 gpm	10 ft
○	Rain Bird 10H - 1812-SAM-PRS	10H	30 psi	0.75 gpm	10 ft
○	Rain Bird 12F - 1812-SAM-PRS	12F	30 psi	2.6 gpm	12 ft
○	Rain Bird 12H - 1812-SAM-PRS	12H	30 psi	1.3 gpm	12 ft
○	Rain Bird 12Q - 1812-SAM-PRS	12Q	30 psi	0.69 gpm	12 ft
○	Rain Bird 1402 - Root Watering System	1402	30 psi	0.5 gpm	0 ft
○	Rain Bird 18F - 1812-SAM-PRS	18F	30 psi	3.7 gpm	18 ft
○	Rain Bird 18H - 1812-SAM-PRS	18H	30 psi	1.89 gpm	18 ft
○	Rain Bird 5H - 1812-SAM-PRS	5H	30 psi	0.2 gpm	5 ft
○	Rain Bird 5Q - 1812-SAM-PRS	5Q	30 psi	0.1 gpm	5 ft
○	Rain Bird 8F - 1812-SAM-PRS	8F	30 psi	1.05 gpm	8 ft
○	Rain Bird 8H - 1812-SAM-PRS	8H	30 psi	0.53 gpm	8 ft
○	Rain Bird HE-VAN-08 180° - 1812-SAM-PRS	HE-VAN-08	30 psi	0.59 gpm	8 ft
○	Rain Bird HE-VAN-08 90° - 1812-SAM-PRS	HE-VAN-08	30 psi	0.29 gpm	8 ft
○	Rain Bird HE-VAN-10 180° - 1812-SAM-PRS	HE-VAN-10	30 psi	0.69 gpm	10 ft
○	Rain Bird HE-VAN-12 180° - 1812-SAM-PRS	HE-VAN-12	30 psi	1.19 gpm	12 ft
○	Rain Bird HE-VAN-12 270° - 1812-SAM-PRS	HE-VAN-12	30 psi	1.7 gpm	12 ft
○	Rain Bird HE-VAN-12 90° - 1812-SAM-PRS	HE-VAN-12	30 psi	0.59 gpm	12 ft
○	Rain Bird HE-VAN-15 180° - 1812-SAM-PRS	HE-VAN-15	30 psi	1.89 gpm	15 ft
○	Rain Bird R-VAN18 120° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.61 gpm	17 ft
○	Rain Bird R-VAN18 150° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.53 gpm	17 ft
○	Rain Bird R-VAN18 180° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.01 gpm	17 ft
○	Rain Bird R-VAN18 240° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.34 gpm	17 ft
○	Rain Bird R-VAN18 360° - 1812-SAM-PRS-P45	R-VAN18	40 psi	1.9 gpm	17 ft
○	Rain Bird R-VAN18 90° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.5 gpm	17 ft
○	Rain Bird R-VAN24 180° - 1812-SAM-PRS-P45	R-VAN1724	45 psi	1.68 gpm	23 ft
○	Rain Bird R-VAN24 240° - 1812-SAM-PRS-P45	R-VAN1724	45 psi	2.24 gpm	23 ft
○	Rain Bird R-VAN24 360° - 1812-SAM-PRS-P45	R-VAN24	45 psi	3.48 gpm	23 ft
○	Rain Bird R-VAN24 90° - 1812-SAM-PRS-P45	R-VAN1724	45 psi	0.84 gpm	23 ft

Water Supply	
1" (m)	2" Point of Connection - See Details
↓	Toro P220-26-04 P220-26-04
⊞	Toro P220-26-06 P220-26-06
⊞	Toro P220-26-08 P220-26-08
Y-Strainers / Filters	
⊞	Rain Bird LCRBY1000 LCRBY1000
⊞	Rain Bird LCRBY1500 LCRBY1500
Isolation Valves	
⊞	2" gate valve
Irrigation Accessories	
⊞	Toro - DXI TWO-WIRE IN SS PEDESTAL DXI-SPEDETW
⊞	Toro TFS-200 Flow Sensor
Lateral Line Pipe	
⊞	Class 200 - size as shown, colour coded by zone
Mainline Pipe	
⊞	Class 200 2"
Sleeving	
⊞	Schedule 40 - 2"
⊞	Schedule 40 - 4"



File: C:\ADSKACAD\2025\132524\Project\Files\02_CADD\00_Drafting\2025_Sheets\32524_SH_10_IRRIGATION.dwg

PLOT DATE: February 6, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2025/01/21	KE	CJB
B	ISSUED FOR ADDENDUM 1	2025/02/08	KE	CJB

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

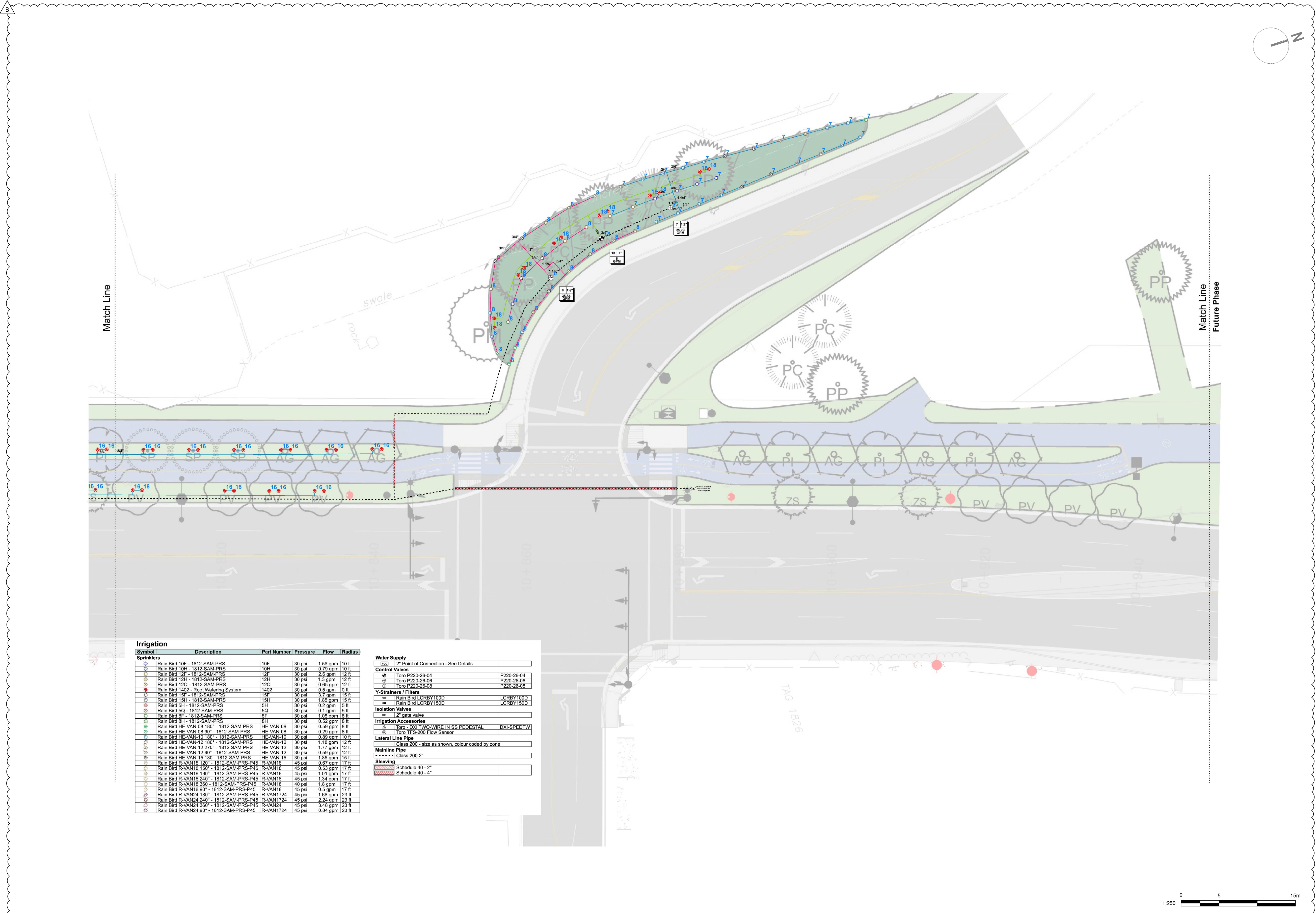
IRRIGATION STA 10+540 TO STA 10+700
PIPELINE ROAD

KORIS ISL
#201, 3990 Henning Drive, Burnaby, B.C. V5C 6P9
T: (604)629-2086 F: (604)629-2088

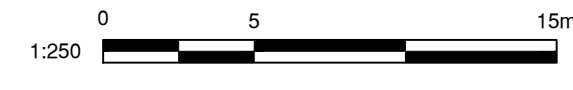
SCALE	AS SHOWN	CREATION DATE	2424/11/01	DWG. NO.
DRAWN BY	KE	DESIGN BY	CJB	35 OF 38
CHECKED BY	CJB	APPROVED BY	CJB	REV. B

32524

IFT DESIGN NO.



Symbol	Description	Part Number	Pressure	Flow	Radius
Irrigation					
Sprinklers					
○	Rain Bird 10F - 1812-SAM-PRS	10F	30 psi	1.58 gpm	10 ft
○	Rain Bird 10H - 1812-SAM-PRS	10H	30 psi	0.79 gpm	10 ft
○	Rain Bird 12F - 1812-SAM-PRS	12F	30 psi	12.8 gpm	12 ft
○	Rain Bird 12H - 1812-SAM-PRS	12H	30 psi	1.3 gpm	12 ft
○	Rain Bird 12Q - 1812-SAM-PRS	12Q	30 psi	0.65 gpm	12 ft
○	Rain Bird 14Q2 - Roof Watering System	14Q2	30 psi	0.5 gpm	0 ft
○	Rain Bird 16F - 1812-SAM-PRS	16F	30 psi	3.7 gpm	16 ft
○	Rain Bird 19H - 1812-SAM-PRS	19H	30 psi	1.85 gpm	15 ft
○	Rain Bird 5H - 1812-SAM-PRS	5H	30 psi	0.2 gpm	5 ft
○	Rain Bird 5Q - 1812-SAM-PRS	5Q	30 psi	0.1 gpm	5 ft
○	Rain Bird 8F - 1812-SAM-PRS	8F	30 psi	1.65 gpm	8 ft
○	Rain Bird 8H - 1812-SAM-PRS	8H	30 psi	0.52 gpm	8 ft
○	Rain Bird HE-VAN-08 180° - 1812-SAM-PRS	HE-VAN-08	30 psi	0.59 gpm	8 ft
○	Rain Bird HE-VAN-09 90° - 1812-SAM-PRS	HE-VAN-09	30 psi	0.29 gpm	9 ft
○	Rain Bird HE-VAN-10 180° - 1812-SAM-PRS	HE-VAN-10	30 psi	0.89 gpm	10 ft
○	Rain Bird HE-VAN-12 180° - 1812-SAM-PRS	HE-VAN-12	30 psi	1.18 gpm	12 ft
○	Rain Bird HE-VAN-12 270° - 1812-SAM-PRS	HE-VAN-12	30 psi	1.77 gpm	12 ft
○	Rain Bird HE-VAN-12 90° - 1812-SAM-PRS	HE-VAN-12	30 psi	0.99 gpm	12 ft
○	Rain Bird HE-VAN-15 180° - 1812-SAM-PRS	HE-VAN-15	30 psi	1.85 gpm	15 ft
○	Rain Bird R-VAN18 120° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.67 gpm	17 ft
○	Rain Bird R-VAN18 150° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.59 gpm	17 ft
○	Rain Bird R-VAN18 180° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.01 gpm	17 ft
○	Rain Bird R-VAN18 240° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.34 gpm	17 ft
○	Rain Bird R-VAN18 360° - 1812-SAM-PRS-P45	R-VAN18	45 psi	1.8 gpm	17 ft
○	Rain Bird R-VAN18 90° - 1812-SAM-PRS-P45	R-VAN18	45 psi	0.5 gpm	17 ft
○	Rain Bird R-VAN24 180° - 1812-SAM-PRS-P45	R-VAN24	45 psi	1.68 gpm	23 ft
○	Rain Bird R-VAN24 240° - 1812-SAM-PRS-P45	R-VAN24	45 psi	2.24 gpm	23 ft
○	Rain Bird R-VAN24 360° - 1812-SAM-PRS-P45	R-VAN24	45 psi	3.48 gpm	23 ft
○	Rain Bird R-VAN24 90° - 1812-SAM-PRS-P45	R-VAN24	45 psi	0.94 gpm	23 ft
Water Supply					
○	12" Point of Connection - See Details				
Control Valves					
▲	Toro P220-26-04	P220-26-04			
○	Toro P220-26-06	P220-26-06			
○	Toro P220-26-08	P220-26-08			
Y-strainers / Filters					
○	Rain Bird LCRBY1000	LCRBY1000			
○	Rain Bird LCRBY1500	LCRBY1500			
Isolation Valves					
○	12" gate valve				
Irrigation Accessories					
▲	Toro - DXI TWO-WIRE IN SS PEDESTAL	DXI-SPEDTW			
○	Toro IFS-200 Flow Sense				
Lateral Line Pipe					
—	Class 200 - size as shown, colour coded by zone				
Mainline Pipe					
—	Class 200 2"				
Slewing					
—	Schedule 40 - 2"				
—	Schedule 40 - 4"				



File: C:\ASKKACC\Drawings\132524\Project Files\02_CADD\00_Drafting\2025_Sheets\32524_SH_10_IRRIGATION.dwg

PLOT DATE: February 6, 2025

REV NO	REVISIONS	DATE	DRAWN	APPRD
A	ISSUED FOR TENDER	2025/01/21	KE	CJB
B	ISSUED FOR ADDENDUM 1	2025/02/06	KE	CJB



IRRIGATION STA 10+850 TO STA 10+11+020 PIPELINE ROAD



SCALE	AS SHOWN	CREATION DATE	2424/11/01	DWG. NO.
DRAWN BY	KE	DESIGN BY	CJB	37 OF 38
CHECKED BY	CJB	APPROVED BY	CJB	REV. B

32524