

Addendum No. 1

City of Coquitlam Tender 78036

Booth Creek Bridge at Lucille Starr Rehabilitation

Issue Date: February 21, 2025 (Consists of 17 Pages)

Tenderers shall note the following amendments to the **CONTRACT DOCUMENT** as follows:

Revisions

1. Refer to: INSTRUCTIONS TO TENDERERS

AMEND: Clause 3.1- Submissions of Tenders

From: Tenders must be received on or before:

Tender Closing Time: 2:00 p.m. local time Tender Closing Date: February 24, 2025

To: Tenders must be received on or before:

Tender Closing Time: 2:00 p.m. local time Tender Closing Date: February 27, 2025

2. Refer to: INSTRUCTIONS TO TENDERERS

AMEND: Clause 1.2 - Introduction

From: The deadline for inquiries is 2:00 PM local time, Wednesday, February 19, 2025.

To: The deadline for inquiries is 2:00 PM local time, Monday, February 24, 2025.

3. Refer to: FORM OF TENDER

REMOVE: Appendix 1

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

NOTE: Revisions shown in red.

4. ADD: Appendix E – Record Drawings

NOTE:

Record drawings are provided for information only. Some as-builts are not complete records. The Contractor is responsible for prelocating and verifying all existing utilities as well as obtaining 3rd party utility as-builts on their own.

Questions & Clarifications

- Q1) Please provide us with the as-built or record drawings for the bridge.
- A1) Refer to Appendix E.
- Q2) Drawing S-200 shows 2-staged construction for the approach slabs; however, page 136 of the Tender Documents (allowable times for full road closures) shows that Lucille Starr Drive can be fully closed during the approach slab works, as long as at least half of each driveway to all businesses is maintained and a detour plan is in place. Please advise if the staging plan on S-200 must be followed.
- A2) The Construction Sequence noted on S-200 will be removed from the IFC set. The Contractor is required to follow the restrictions and schedules outlined in Appendix A Traffic Management Detail Specifications.
- Q3) The geotechnical documents indicate that the excavation at each abutment will reach the peat layers. Is the intention to excavate partially into the peat and install the lightweight fill on top of the partially excavated peat?
- A3) The intent is to partially remove a portion of the underlying peat and backfill the excavation with the geotextile-wrapped lightweight fill.
- Q4) Will there be a separate pay item generated for disposal of peat, separate from the common excavation pay item?
- A4) Excavation, removal, and disposal offsite of all native materials is included in the payment clause for Common Excavation (Pay Item 10.05).
- Q5) What is the expected dewatering method used for each abutment excavation?
- A5) The Contractor is responsible for making their own assessments to select a suitable means and methods of controlling ground water and placing the lightweight fill in the dry excavation.
 - Cost for excavation dewatering via typical sump and pump method is considered incidental to the Contract. In the event that groundwater conditions cannot be accommodated via sump and pump method, then this will be considered an Unknown or Concealed Condition.
- Q6) Drawing 23-0147-R2-1 has a note on the right side of the page stating that the full depth milled/excavated area is to be reinstated with 50mm UC#1 asphalt and 50mm LC#1 asphalt,

whereas the pay items 15.01 and 15.02 indicate they should be 75mm thick. Please confirm desired asphalt thickness.

- A6) Refer to *Revised* Appendix 1 Revision No. 1, where the asphalt thicknesses are updated.
- Q7) Due to supplier requests, can the tender date be extended one week?
- A7) Tender closing date has been extended to February 27, 2025 at 2:00PM.
- Q8) What rates will City Staff be charged to the contractor for Sunday or Holiday work?
- A8) The Contractor is not permitted to work on Sundays nor Statutory Holidays, unless otherwise permitted in Appendix A Traffic Management Detail Specifications for specific operations only.
 - Any rates to be charged for City Inspection on Sundays or Statutory Holidays will be discussed between the Contractor and Contract Administrator as per a Change Order process for a credit to the City. Rate will be based on actual cost to the City.
- Q9) Will additional payment be made to the successful proponent if additional Tariffs are applied after the tender close date?
- A9) The Contractor may request adjustment of unit prices if international tariffs are applied to certain materials from Tender Closing date to the time of material order. Requests for unit price adjustments must be made prior to installation and the Contractor must provide the supporting documents as requested by the Contract Administrator. Approval of price adjustments due to tariffs will be at the sole discretion of the Contract Administrator.
 - The Contractor must order materials as soon as possible after Notice of Award to avoid possibility of tariffs.
- Q10) What testing is required to confirm that fill is free of contaminants.
- A10) The Qualified Contractor should be familiar with testing of imported fill. Typically certifications like these are provided by the Contractor's supplier.
- Q11) Will environmental monitoring be completed by the City or by the contractor?
- A11) Refer to Supplementary Contract Specifications Section 01 57 01S "Environmental Protection" for requirements. The Contractor is required to comply with these requirements and to be familiar with best practices around construction.
- Q12) Is biodegradable hydraulic fluid required for equipment?

- A12) Refer to Supplementary Contract Specifications Section 01 57 01S "Environmental Protection" for requirements.
- Q13) Can you confirm that equipment and fuel storage can take place at least 15m from the watercourse but refueling requires being 30m from the water course.
- A13) Refer to Supplementary Contract Specifications Section 01 57 01S "Environmental Protection" for requirements.
- Q14) Are recycle aggregate products expected to be approved for this project?
- A14) Refer to Supplementary Contract Specifications Section 31 05 17S "Aggregates and Granular Materials, Clause 2.11.
- Q15) Can you confirm that COQ will be responsible for all payment quantity surveying?
- A15) The City of Coquitlam will provide survey. Tenderers should also refer to each payment clause as some indicate how quantities are to be measured and verified. For example, Common Excavation payment quantities are determined via truck slips.
- Q16) Can groundwater be discharged to storm?
- A16) The Contractor may discharge groundwater to the storm system subject to all requirements as specified in the contract. The Contractor is also responsible for reviewing and complying with Supplementary Contract Specifications Section 01 51 01S "Environmental Protection" to ensure any discharge from the site is free from sediment, if it is to be released into watercourses, ditches, or swales. Booth Creek is a known fish-bearing watercourse.
- Q17) Can groundwater be discharged to sanitary?
- A17) Groundwater can be discharged to the sanitary main.
- Q18) Can you provide an environmental report with soil analytics for this project or confirm that contaminated material will be considered extra to the base contract?
- A18) There is no environmental report with soil analytics available outside of what's provided in Appendices B and C. No tests have been completed for contaminated soils and, if encountered, it would be considered an Unknown or Concealed Condition.
- Q19) Can you provide ground water contamination analytics or confirm that contaminated ground water will be considered extra to the base contract if required?
- A19) There is no information available regarding groundwater contamination.
- Q20) Can you provide ground water infiltration data or provide a specification for dewatering flow rates in GPM?

- A20) This information is not available.
- Q21) Can you confirm that the required mix for structural concrete for the approach slab is 35MPa C1?
- A21) The required mix for structural concrete for the approach slab is 35MPa C1.
- Q22) Please confirm that SS 413, 931 & 933 do not apply to pay item 6.01. 413 refers to bridge deck; 931 has not been included in MOTI specifications for the past 10 years. If these specifications apply, can you please provide these documents? 933 was removed from the current specifications. If this applies, please provide the documents that apply.
- A22) MOTI SS 413, 931, 933 do not apply to Pay Item 6.01.
- Q23) Can you confirm that a full MOTI QC plan and full-time 3rd party QC monitoring is required for Cast In Place Structural Concrete?
- A23) This is confirmed.
- Q24) Can a pay item for peat excavation removal and disposal of peat be included to separate the peat and clean spoil removal?
- A24) See response to Question 4 above.
- Q25) Can you provide the volume per load for Peat and Light weight fill?
- A25) The Contractor should have this information depending on the type of equipment they intend to use.
- Q26) Can you confirm the asphalt thickness for the proposed road? SOQ indicated 75mm lifts but the drawings show 50mm.
- A26) Refer to *Revised* Appendix 1 Revision No. 1, where the asphalt thicknesses have been updated for consistency with the Contract Drawings.
- Q27) Does the existing watermain have mechanically restrained joints or thrust blocks? COQ Webmaps is indicating thrust blocks which will separate/lose pressure when undermined.
- A27) As-built drawings are attached for reference only. Records indication potential presence of either restrained joints or thrust blocks.
- Q28) Can you provide a detail for reinstatement of existing thrust block in the lightweight fill zone?
- A28) If encountered at the 45° bends, joint restraints in accordance with COQ specifications shall be within 3.5 m of the fittings prior to removal of the thrust blocks. Notify the

Contract Administrator and Project Engineer prior to undertaking the works. Cost for supply and installation of joint restraints, if required, will be paid under Force Account.

- Q29) Can the existing watermain be shut down? Temporary connection to business would be installed.
- A29) The watermain on Lucille Starr Dr cannot be shut down.
- Q30) Can the existing watermain be bypassed on the surface if a shutdown is not allowed? What material of pipe is acceptable for this bypass if allowed? Will existing hydrant need to remain in service? Can a temporary hydrant be installed outside of the peat removal area if hydrants need to remain in service?
- A30) The Contractor may choose to provide a temporary bypass at no extra cost to the City. If a surface bypass is to be installed, the Contractor is responsible for all reinstatement costs and operations, including rechlorinating and testing the isolated pipe. Water service connections and hydrants cannot be disrupted at any time. The bypass pipe must provide the same flows as the existing pipe. The Contractor is responsible to coordinate these works with the Contract Administrator and City of Coquitlam Water Department.
- Q31) Can you provide an as built drawing of the existing Telus ducting?
- A31) The Contractor can obtain 3rd Party utility as-builts via BCOneCall. Refer to Supplementary Contract Specifications, Section 00 72 43S Contract Specific Notations, Clause 1.07 for Contractor responsibilities regarding locating existing utilities.
- Q32) Can you provide an asbuilt drawing of the existing street lights?
- A32) See Appendix E.
- Q33) Can you provide an asbuilt drawing of the existing storm?
- A33) See Appendix E.
- Q34) Can you provide an asbuilt drawing of the existing sanitary?
- A34) See Appendix E.
- Q35) Can you provide an asbuilt drawing of the existing watermain?
- A35) See Appendix E.
- Q36) Is the existing telus duct bank direct buried or concrete encased?

- A36) The Contractor can obtain 3rd Party utility as-builts via BCOneCall. Refer to Supplementary Contract Specifications, Section 00 72 43S Contract Specific Notations, Clause 1.07 for Contractor responsibilities regarding locating existing utilities.
- Q37) Can you provide an asbuilt drawings for the BC Hydro Pad/vault at station 2+145? The excavation is in proximity to this vault and may require shoring.
- A37) The Contractor can obtain 3rd Party utility asbuilts via BCOneCall.
- Q38) Can you provide a topographic map and grading plan for this project?
- A38) Refer to Contract drawings. A Qualified Contractor should be able to review the plan, profile, and typical cross sections.
- Q39) What is the maximum load rating of the existing bridge?
- A39) Refer to Appendix E which is provided for reference only.
- Q40) Can you clarify Item 10.06? Description states 1.5m thick pumice layer but drawings show 2.0m thick.
- A40) Refer to Revised Appendix 1 Revision No. 1, where the pumice layer thickness is updated.
- Q41) Can you confirm the intent is to undermine the existing storm manhole and fill pumice underneath it? Is the contractor responsible for mitigating any settling of the manhole?
- A41) It is the Contractor's responsibility to protect and maintain all existing infrastructure.

 The Contractor is to select the means and methods to comply with this requirement.

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: <u>bid@coquitlam.ca</u>

Revised - APPENDIX 1 - Revision No. 1 FORM OF TENDER

Contract 78036

Booth Creek Bridge at Lucille Starr Rehabilitation

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)

	MMCD Ref. /								
NO.	(Supplementary Contract Specifications)	DESCRIPTION	UNIT	QТY	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 57 015	ENVIRONMENTAL PROTECTION							
2.01	(1.6.1)	ESC supply & installation, maintenance and removal		Inc	cidental to Contr	act			
3.00	01 58 015	PROJECT IDENTIFICATION	1 1		1				
3.01	(1.3.1)	Construction Zone Information Signs	ea.	3					
3.02	(1.3.2)	Changeable Message Signs (CMS) (x3 Signs)	month	2					
4.00	03 20 015	CONCRETE REINFORCEMENT	l 1		ı				
4.01	(1.5.1)	Supply and installation of plain steel rebar	kg	2,475					
4.02	(1.5.1)	Supply and installation of stainless steel rebar	kg	3,025					
5.00	03 30 205	CONCRETE WALKS, CURBS AND GUTTERS	1 1		1				
5.01	(1.4.3)	Barrier Type Concrete Curb and Gutter (MMCD C5)	l.m	90					
5.02	(1.4.5)	Concrete Sidewalk, Utility Strip & Wheelchair Letdowns - 100mm Thick - Broom Finished (excl. gravel)	sq.m	100					
5.03	(1.4.5)	Concrete Driveway Letdown, sidewalk crossing - 190mm thick - COQ-C7A	sq.m	75					
6.00	03 30 535	CAST-IN-PLACE CONCRETE							
6.01	(1.5.6)	Supply and placement of concrete approach slabs, sidewalk, barriers, and curb - Structural Scope (Provisional)	cu.m	50					
7.00	03 40 01	PRECAST CONCRETE	1						
7.01	(1.4.2)	Supply and install Allan Block Wall as per Kontur Drawings - (Provisional)	sq.m	15					
8.00	26 56 015	ROADWAY LIGHTING Adjustment of all streetlight bases to suit new grade, and all labor, material and equipment to	T 1		I				
8.01	1.9.2	complete the work.	l.s	1					
9.00	31 22 165	RESHAPING GRANULAR ROADBED							
9.01	(1.4.1)	Reshaping Road Bed	sq.m	540					
10.00	31 24 135	ROADWAY EXCAVATION, EMBANKMENT, & COMPACTION	1		1				
10.01	(1.8.4)	Removal and Offsite Disposal of Existing Asphalt Driveways (All Depths)	sq.m	135					
10.02	(1.8.4)	Removal and Offsite Disposal of Existing Approach Slabs	sq.m	60					
10.03	(1.8.4)	Removal and Offsite Disposal of Existing Concrete Driveways and Sidewalks (All Depths)	sq.m	80					
10.04	(1.8.4)	Removal and Offsite Disposal of Existing Concrete Curb	l.m	90					
10.05	(1.8.5)	Common Excavation - (Provisional)	cu.m	1,600					
10.06	(1.8.7)	2.0m Thick Layer of Light Weight Pumice - Wrapped in Two Layers of Non-Woven Geotextile (Texel 80C or Approved Equivalent)	cu.m	1,150					
10.07	(1.8.7.1)	Reinstatement of Pipe Zone c/w Geotextile Surround for Existing Utilities within Lightweight Fill Zone as per Contract Drawings	l.m	130					
11.00	32 01 16.75	COLD MILLING			•				
11.01	(1.5.4)	Full Depth Milling up to 150mm depth	sq.m	665					
12.00	32 11 16.15	GRANULAR SUBBASE							
12.01	(1.4.3)	75mm Crushed Minus Granular Subbase - Lightweight Fill Zone	tonne	190					
12.02	(1.4.3)	75mm Crushed Minus Granular Subbase - Outside of Lightweight Fill Zone (Provisional)	tonne	120	<u> </u>				
13.00	32 11 235	GRANULAR BASE							
13.01	(1.4.3)	19mm Clear Crushed - 150mm Thick c/w Two (2) layers of 6mm Polyethylene Sheet	tonne	360					
13.02	(1.4.3)	19mm Crushed Minus Granular Base - (Provisional)	tonne	45					
14.00	32 12 13.15	ASPHALT TACK COAT							
14.01	(1.5.1)	Asphalt Tack Coat	sq.m	730					
15.00	32 12 165	HOT-MIX ASPHALT CONCRETE PAVING	1		ı				
15.01	(1.5.1)	MMCD UC #1 Asphalt - 50mm Thick	tonne	90					
15.02	(1.5.1)	MMCD LC#1 Asphalt - 50mm Thick	tonne	100					
15.03 15.04	(1.5.3)	Hand Laid MMCD Upper Course #1 (Driveway) - 75mm Thick Supply and Install MMCD C6 Style 1 Asphalt Concrete Curb	sq.m l.m	110 55	1				
16.00	32 17 235	PAINTED PAVEMENT MARKINGS							
16.01	(1.5.3)	Thermoplastic Line and Pavement Markings	l.s	1					
16.02	(1.5.4)	Remove, Protect, and Reinstate Existing Signage	l.s.	1					
17.00	32 31 135	CHAIN-LINK FENCES AND GATES							
17.01	(1.5.1)	Supply and Install 1.8m-tall Chain Link Fence as per MMCD C13	l.m	14					
17.02	1.5.2	Supply and install 1.2m-wide Locking Chain Link Gate	ea.	1					
_,.02					<u>I</u>	l			

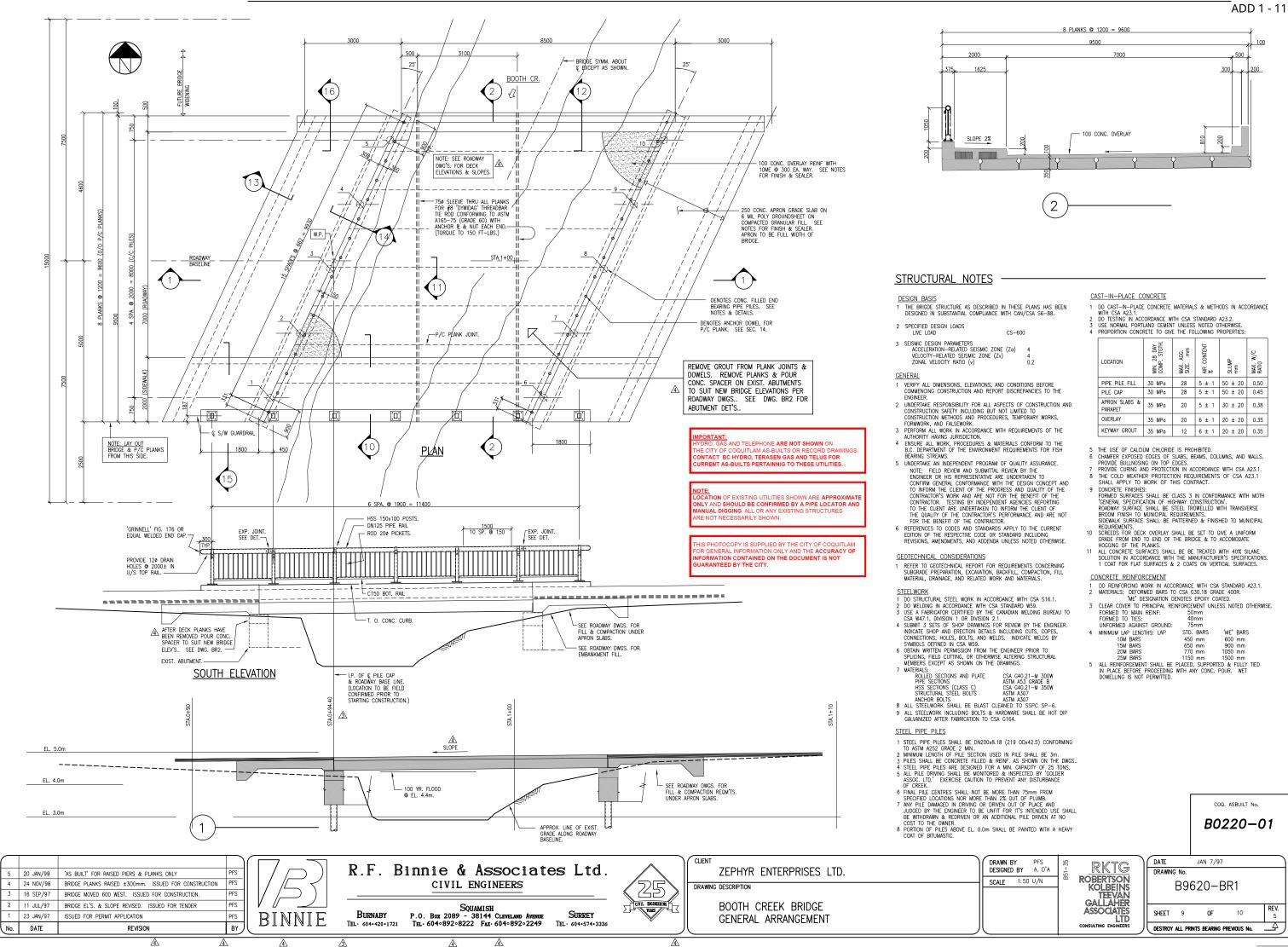
ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QТΥ	UNIT PRICE	EXTENDED AMOUNT	
17.03	(1.5.4)	Supply and Install MMCD C14 Handrail - Attached Mounting	l.m	9			
18.00	32 91 215	TOP SOIL AND FINISH GRADING					
18.01	(1.4.1)	Imported Topsoil - 150mm Thick for Seed		30			
19.00	32 92 205	SEEDING					
19.01	1.8.1	Seeding (Lawn Grass #1, Sun and Shade Mix)		400			
20.00	33 44 015	MANHOLE AND CATCH BASINS					
20.01	(1.5.2)	Remove and Replace Side Inlet Catch Basin (COQ-S11A) - (Provisional)	ea.	1			
20.02	(1.5.3.1)	Manhole Frame and Cover Adjustment Only - (Provisional)	ea.	2			
20.03	(1.5.3.1)	Manhole Frame and Lid Replacement and Adjustment - (Provisional)	ea.	5			

Total Tendered Price (exclude GST):

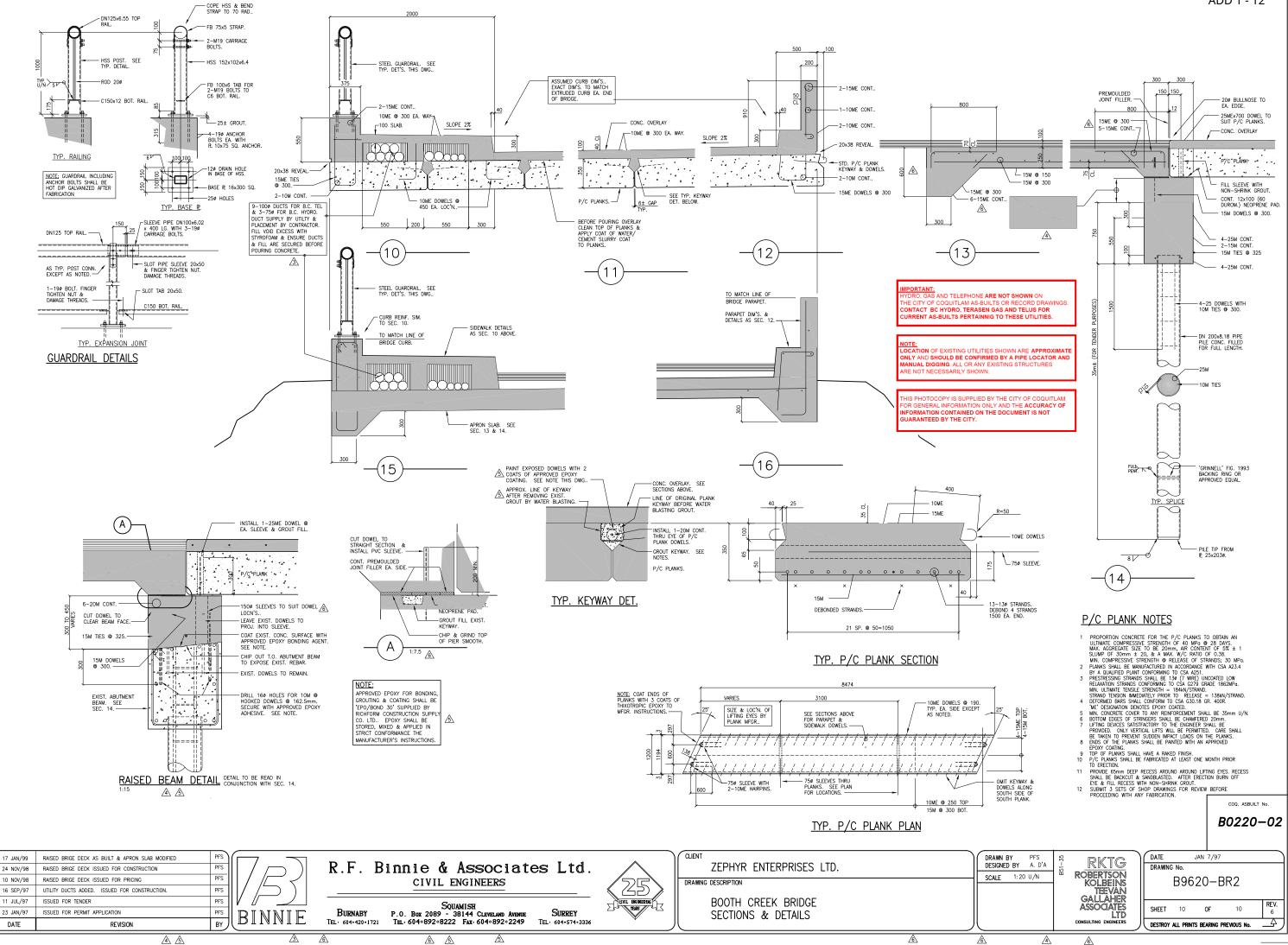
(Transfer the amount to Form of	of Tender Summary Page 1)
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Name of Contractor:		

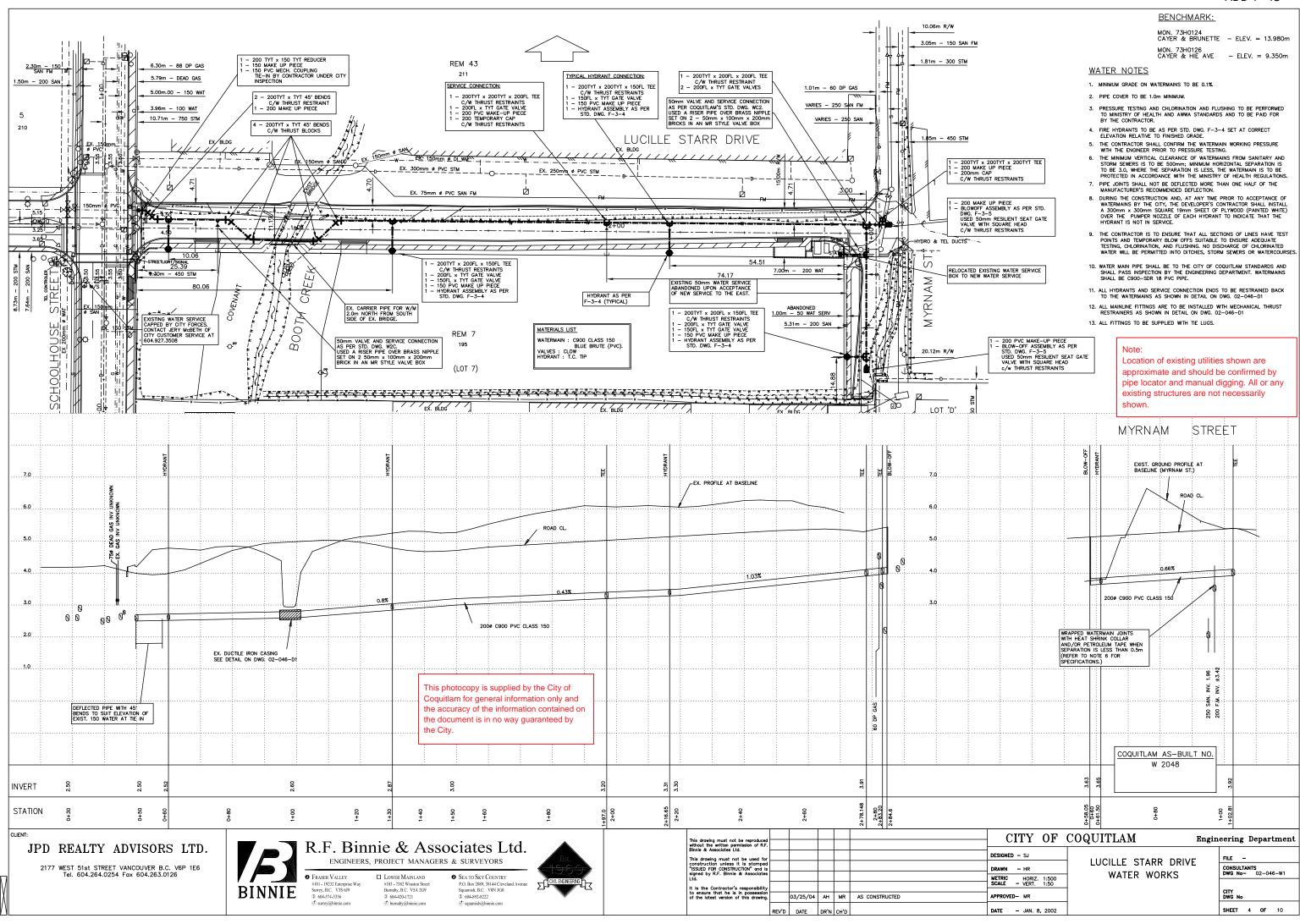
Appendix E - Record Drawings

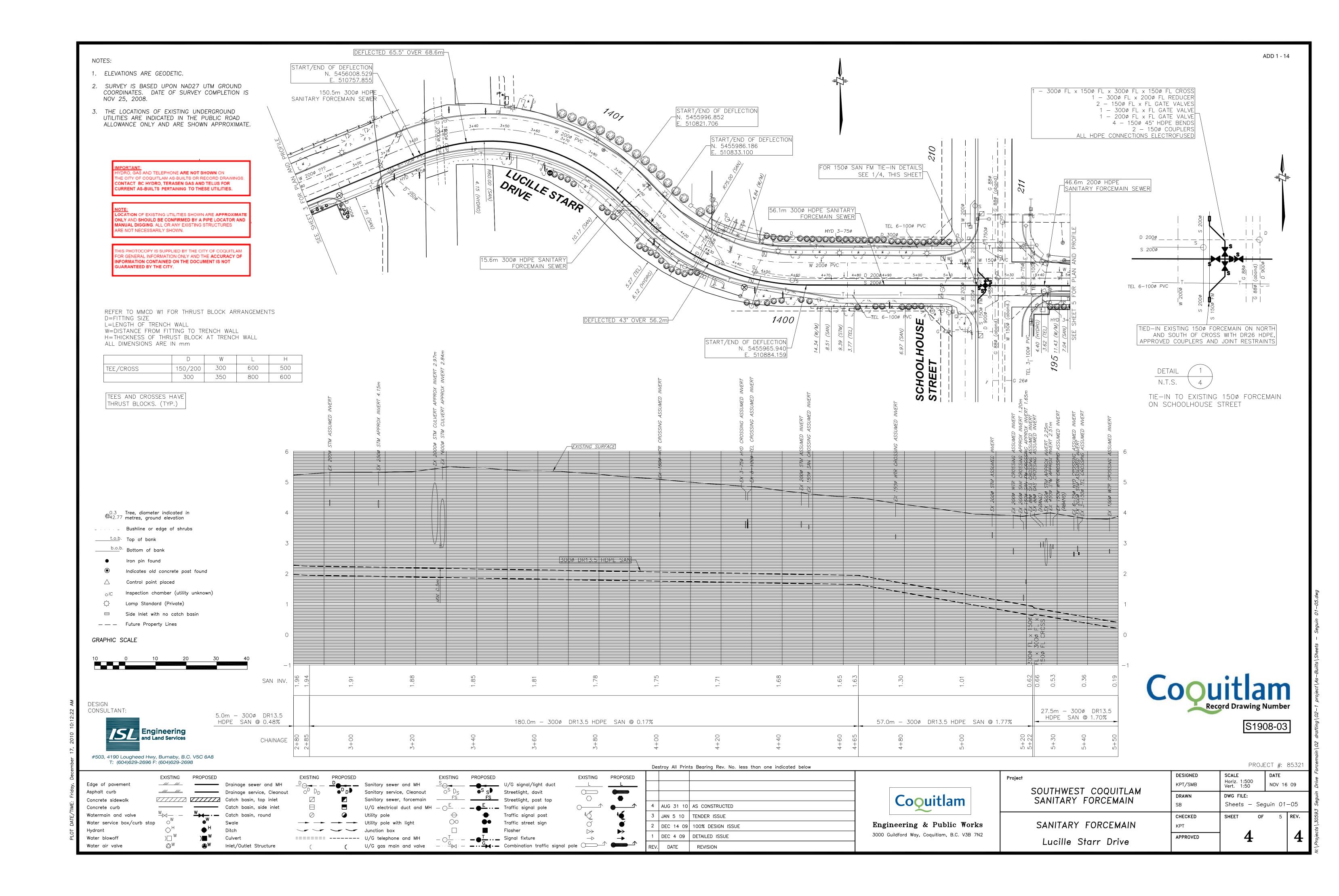


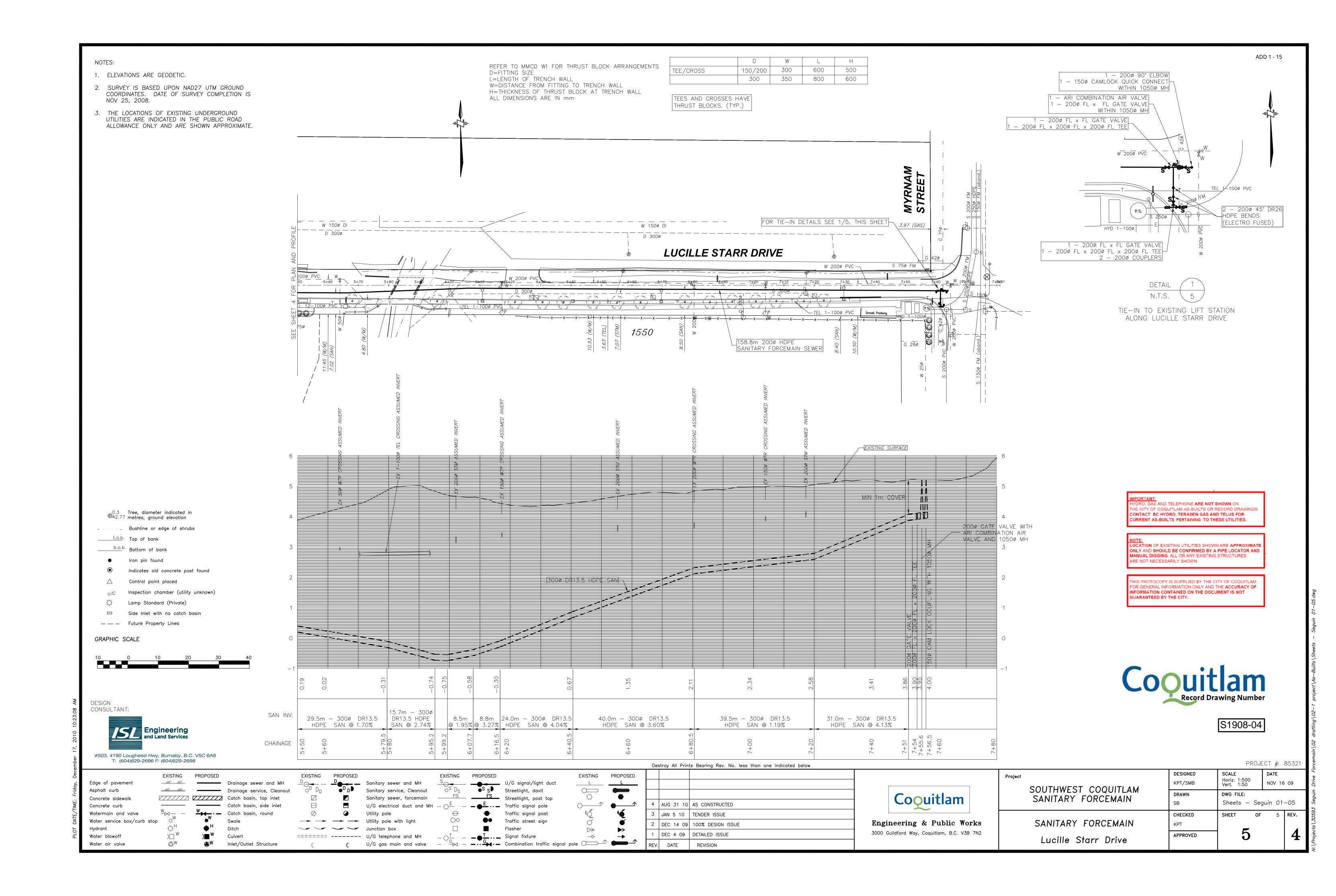


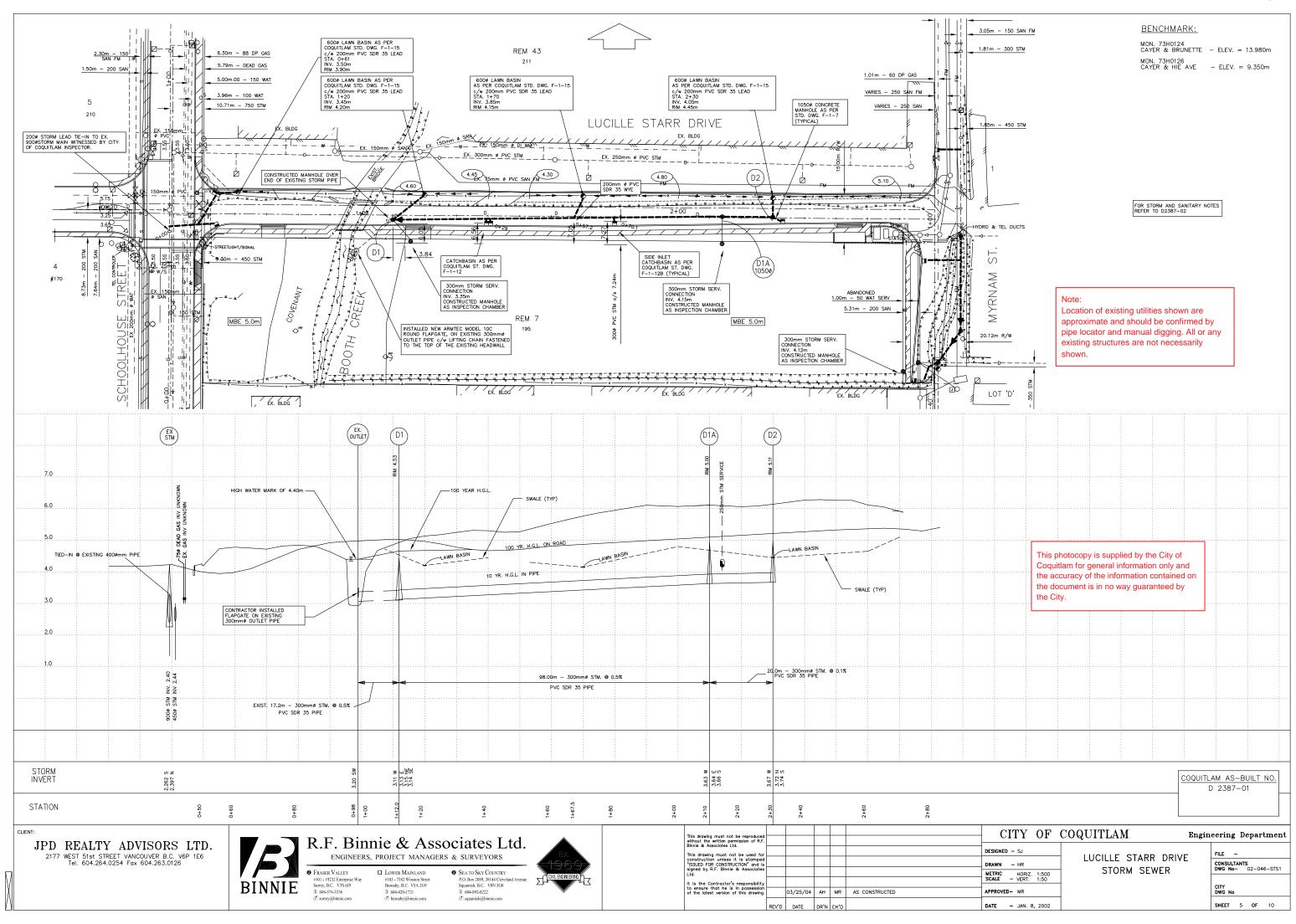


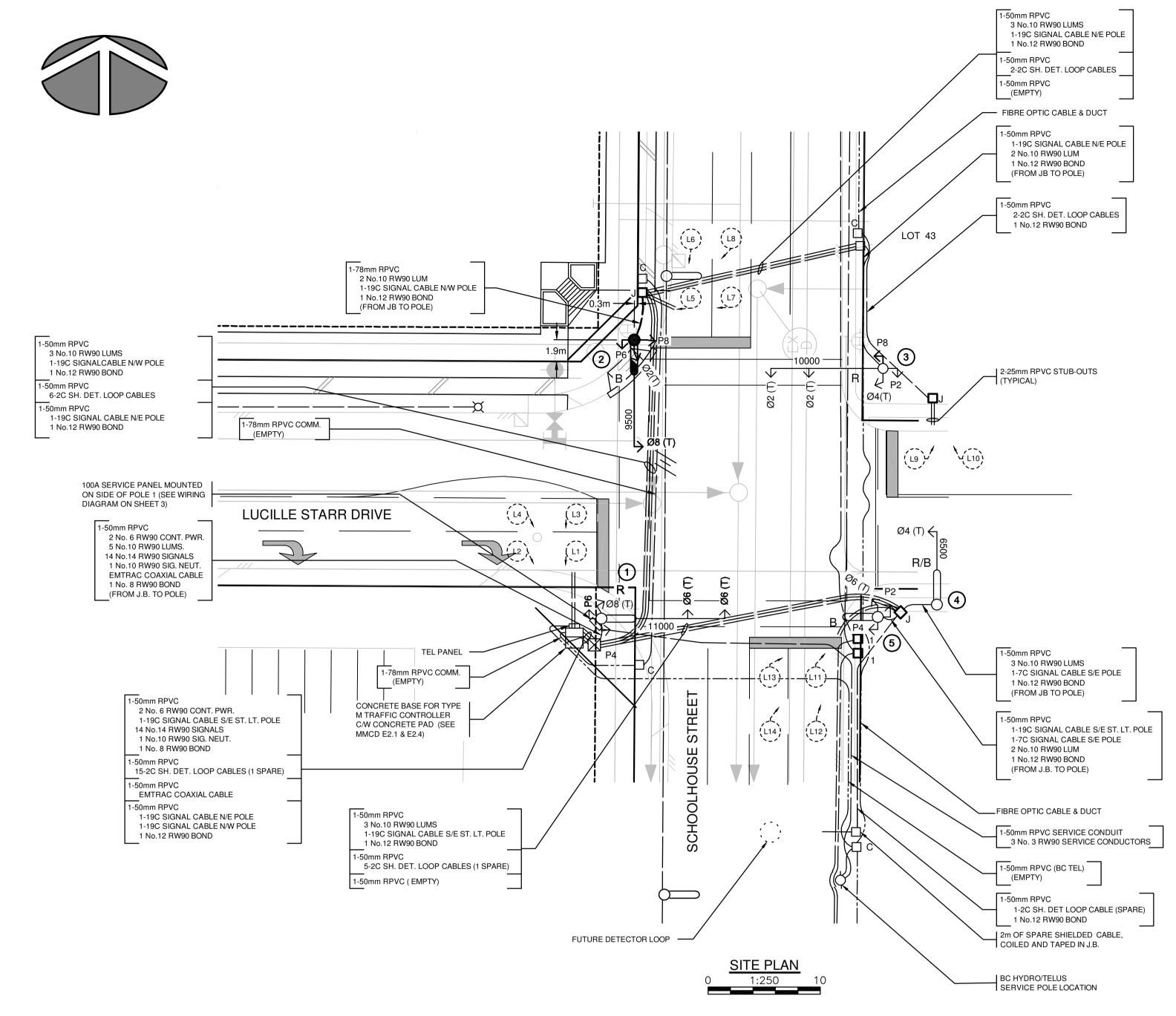
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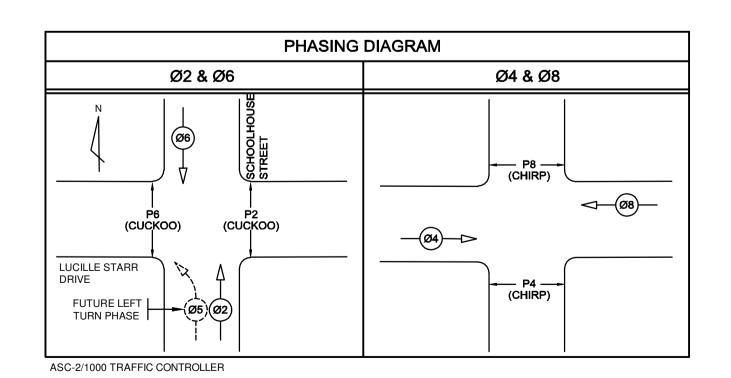








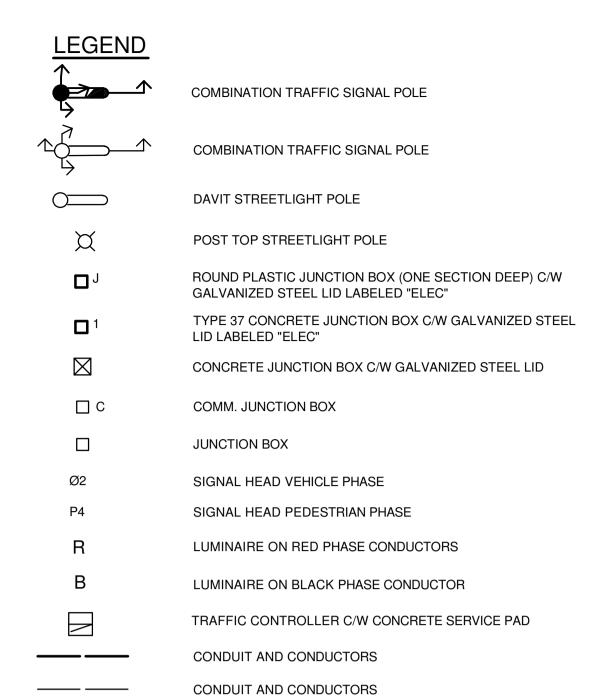
* REPLACES DWG. E 929-02



IMPORTANT:
HYDRO, GAS AND TELEPHONE ARE NOT SHOWN ON
THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR
CURRENT AS-BUILTS PERTAINNIG TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE
ONLY AND SHOULD BE CONFIRMED BY A PIPE LOCATOR AND
MANUAL DIGGING. ALL OR ANY EXISTING STRUCTURES
ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.



COLOUR CODING (FROM HANDHOLE TO SIGNAL HEAD)							
PHASE	SIGNAL SECTION	COLOUR					
Ø2	RED YELLOW GREEN	RED YELLOW BLUE					
Ø4	RED YELLOW GREEN	RED BROWN BLUE					
Ø5 (SPARE)	YELLOW ARROW GREEN ARROW	ORANGE (WHITE T.T.) BLUE (WHITE T.T.)					
Ø6	RED YELLOW GREEN	RED YELLOW (RED T.T.) BLUE					
Ø8	RED YELLOW GREEN	RED BROWN (ORANGE T.T.) BLUE					
P2	DON'T WALK WALK PUSHBUTTON	YELLOW BLUE PURPLE (YELLOW T.T.)					
P4	DON'T WALK WALK PUSHBUTTON	BROWN BLUE PURPLE (BROWN T.T.)					
P6	DON'T WALK WALK PUSHBUTTON	YELLOW (RED T.T) BLUE PURPLE (RED T.T.)					
P8	DON'T WALK WALK PUSHBUTTON	BROWN (ORANGE T.T.) BLUE PURPLE (ORANGE T.T.)					
DESCRIPTION	CIRCUITS	COLOUR					
NEUTRAL	NEUTRAL	WHITE					
STREET LIGHTING	,B,	RED BLACK					
TRAFFIC CONTROLLER	POWER	BLACK					
GROUND/BOND	GROUND/BOND	GREEN					

NOTES

- 1. ALL WORK HAS BEEN CONSTRUCTED IN ACCORDANCE (IN ORDER OF PRECEDENCE) WITH THE SUPPLEMENTAL SPECIFICATIONS, MASTER MUNICIPAL CONSTRUCTION DOCUMENT, 2000 ISSUE AND THE MOST CURRENT M.o.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.
- 2. CONDUCTORS INSIDE POLES ARE:
 - No. 14 RW90 X-LINK FOR SIGNALS No. 12 RW90 X-LINK FOR ALL OTHERS
- 3. A TRON HEB AA WATER-RESISTANT FUSE HOLDER, C/W A 10A BUSS KTK FUSE AND 2 `L' TYPE INSULATING BOOTS, ARE INSTALLED IN EACH LUMINAIRE & SIGN LIVE CONDUCTOR, IN THE HANDHOLE.
- 4. ALL SINGLE CONDUCTORS ARE STRANDED COPPER, TYPE RW90 INSULATED AND COLOR CODED.
- 5. EMPTY CONDUITS HAVE A No.8 HB POLY YELLOW/GRN Mk PULL STRING AND CAPPED AT BOTH ENDS AS PER MMCD E3.6.
- 6. WHERE INDIVIDUAL CONDUCTORS OR CABLES ARE RUN, ALL OF THE COMMON CIRCUITS ARE BUNDLED, TY-RAPPED TOGETHER WITH IDENTIFICATION TAGS IN ALL JUNCTION BOXES, VAULTS, HAND HOLES, CONTROLLER AND ACCESS POINTS AS NOTED IN THE MMCD. TAGS ARE MARKED AS FOLLOWS CABLE NW POLE, STREET LIGHTING CCTS R OR B, PHOTOCELL, CONTROLLER POWER, WITH BLACK INDELIBLE MARKING PEN. TAGS ARE ATTACHED NO FURTHER THAN 75mm FROM WIRE OR CABLE TERMINATION POINT.
- 7. TRAFFIC SIGNAL NEUTRALS ARE KEPT SEPARATE FROM STREET LIGHTING NEUTRAL CONDUCTORS.
- 8. ALL SIGNAL HEADS AND LUMINAIRES ARE BONDED WITH A SEPARATE No.12 RW90 CONDUCTOR (GREEN) AT THE HANDHOLE.
- 9. ALL CONDUITS ENTERING POLES AND CABINETS ARE SEALED WITH "DUCT SEAL".
- 10. SEE B.C. HYDRO STANDARDS FOR SERVICE CONNECTION DETAILS.
- 11. TRAFFIC CONTROL IS TO CITY STANDARDS. (M.o.T.)
- 12. ALL POLES, ARMS, SERVICE BASE ETC. ARE GALVANIZED, PRIMED & POWDER COATED IN COLOUR EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN GENERAL PAINT #16-214 B1Y12F36 EXTERIOR U.V STABILIZED INDUSTRIAL ENAMEL OR WEST COAST ENGINEERING COLOUR CODE "GREENFERN COQUITLAM"
 PWD P5399-9.
- 13. BELL END FITTING INSTALLED ON ALL CONDUITS ENTERING JUNCTION BOXES.
- 14. HANGER BAR & TY-RAP WIRES INSTALLED TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING E3.6.
- 15. ALL CONDUITS ARE BURIED MINIMUM 600mm DEEP. A 'BURIED CABLE' MAKER TAPE IS INSTALLED 300mm ABOVE CONDUIT IN ALL TRENCHES. DETECTABLE (METALIC) TAPE TO USED ABOVE CONDUIT IN TRENCHES CONTAINING ONLY INTERCONNECT CONDUIT.
- 16. ALL STEEL JUNCTION BOX LIDS ARE BONDED.
- 17. AUDIBLE PEDESTRIAN SIGNAL ENTRANCE TO POLE (MOUNTING HOLE) IS SEALED WITH SILICONE SEALANT.
- 20. SIGNAL WIRING IS TAGGED AND LABELED USING PANDUIT MP250-C TAGS AND THE APPROPRIATE PANDUIT INDELIBLE MARKER.
- 21. TYPE 5686 PULL BOXES ARE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E3.3 C/W BOLT DOWN LIDS.
- 22. TAMPER RESISTANT FASTENERS ARE USED FOR PEDESTRIAN BUTTONS AND PLATES (SEE CEDMS DOCUMENT NUMBER 371920 FOR DIAGRAM): i. LOCAL SUPPLIER IS AIRARMS INDUSTRIAL INC.
- I. LOCAL SUPPLIER IS AIRARMS INDUSTRIAL INC.

 II. MANUFACTURER IS TAMPERPROOF SCREWS INC (TSI)
- 1. BOLT FOR PLATE TO POLE CONNECTION: TSI P/N 22410, 3/8-16 BY 1 INCH LENGTH, 7/32" HEX DRIVE WITH CENTER PIN
- 2. SCREW FOR BUTTON TO HOUSING CONNECTION: TSI P/N 21930, 8-32 BY 1 INCH LENGTH, 5/32" HEX DRIVE WITH CENTER PIN
- 23. ALL DETECTOR TO LOOP CABLE SPLICES ARE SOLDERED WITH ROSIN CORE SOLDER (NO ACID CORE OR ACID FLUX) THEN CAP WITH WATERPROOF GEL FILLED WIRE NUT AND TAPE WITH VINYL DI-ELECTRIC TAPE. SPLICES IN TOP OF JUNCTION BOX ARE SUSPENDED AND TY-WRAPPED WITH OPEN END OF WIRE NUTS POINTING DOWN.
- 24. DETECTOR CABLE ARE IMSA 50-2 SPECIFICATION:
- 2 CONDUCTOR 16 GAUGE STRANDED IMSA 50-2 SPECIFICATION SHIELDED LOOP DETECTOR CABLE. THE TEXCAN PART NUMBER FOR THIS PRODUCT IS:12193-01-001 (TEXCAN CONTACT IS CHRIS YOUDS 604-606-1031).
- 25. EACH 2C No.18 SHIELDED DETECTOR LOOP CABLE RUNS CONTINUOUS, WITH NO SPLICES, FROM THE CONTROLLER TO THE RESPECTIVE LOOP.



• E 1042-01 TS C 0140-01

REF. 1042-02, 03 TS

Engineering Department



DMD & Associates Ltd.

#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3 www.dmdeng.com 604/589-9010 office@dmdeng.com Fax 604/589-9012 DMD PROJECT No. 2004-07-01 of 04

							CITY	OF COQUITLAM
					DESIGNED	_	JDM	
					DRAWN	_	ALM	TRAFFIC SIGNA
3	2009-06-01	ALM		RECORD DRAWING	METRIC		1:250	
2	2008-11-21	JDM		REVISED AS PER CITY'S COMMENTS	SCALE	_	1.230	
1	2008-09-12	JDM		REVISED AS PER CITY'S COMMENTS	APPROVED) –	DJW	SCHOOLHOUSE ST
REV'N	DATE	DR'N	CH'D		DATE	_	2007-08-30	

TRAFFIC SIGNAL MODIFICATIONS

SCHOOLHOUSE ST. & LUCILLE STARR DR.

FILE	_	
CONSULTAN PROJ. No.	NTS -2004-07	
DISTRICT DWG. No.	_	
SHEET	1 05 3	