

PERMIT NO. 23 110775 UP

<b>APPLICANT</b>	
Name: BC HYDRO	
Address: 2590 Barnet Hwy Coquitlam BC V3H 3P2	
Phone: () - e	Date of Application: 15/06/2023

<b>LOCATION</b>
<b>MITCHELL STREET AND BROWNLEE AVENUE</b>

<b>CONTRACTOR</b>	
Name: BC HYDRO	
Address: 2590 Barnet Hwy Coquitlam BC V3H 3P2	
Phone: () - e	

Type	Utility	Drawing #
Utility	Electrical	413U0703800


PERMISSION IS GRANTED TO:

Construct Electrical as per drawing # 413U0703800 submitted 15/06/2023  
Authority / Mandate for issuance of permit: Utility Regulation By-Law No. 707 (1977)  
Record drawings required: Yes  
For inspection please call: Jim Roulette at 604-603-6232  
For QNet Locating please contact at: [QNetDuctLocating@coquitlam.ca](mailto:QNetDuctLocating@coquitlam.ca) or 604-927-3626

Comments:

- Hydro conduits are to be offset 2.5 metres from property line on Brownlee.
- Try to locate the proposed JB on Innes Court within the boulevard.
- Shift locations of JB's slightly in the field to accommodate installation of street trees as per the approved landscape drawings.
- City inspector to be contacted prior to any work taking place.

Date: 12/07/2023

Signature:   
(For the General Manager –  
**Engineering & Public Works**)  
Approved by: Chad Braley

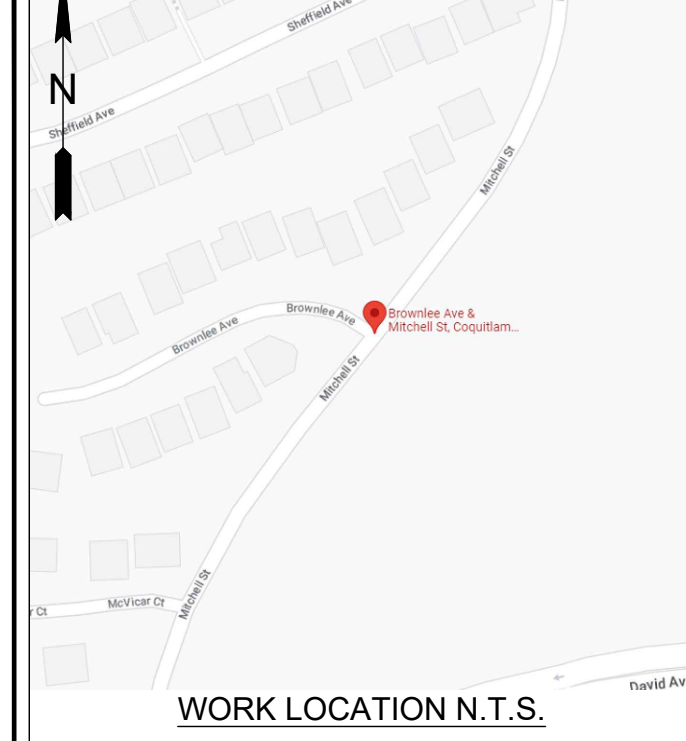
All work must be completed in accordance with all current City adopted standards, specifications, and regulations.  
Contractor(s) is responsible for field verification of all existing utility locations.  
Utility Company/Contractor to provide notification letters to all impacted property owners min. (1) one week prior to construction.

Utility Company/Contractor must contact the City of Coquitlam Inspector min (2) weeks prior to construction.  
Ensure QNet Locator is contacted before any construction begins to confirm the location of Surface Inlay Fibre.  
Utility Company is required to submit an as-built drawing within 30 days of completion of the work to [UtilityPermits@coquitlam.ca](mailto:UtilityPermits@coquitlam.ca)

\*\* Call BC One Call at least two full working days before you dig at 604-257-1940. \*\*

Issue Date: 12/07/2023

Expiry Date: 11/07/2024



WORK LOCATION N.T.S.

**BC ONE CALL**  
 CALL BEFORE YOU DIG  
 1-800-474-6886  
 CALL AT LEAST 3 FULL WORKING DAYS BEFORE YOU PLAN TO DIG



- CIVIL SPEC. 1323 NOTES:**
- BC HYDRO UNDERGROUND CIVIL INSPECTOR MUST BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
  - ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CLASS OF WORK SPECIFICATION 1323 AND BC HYDRO UNDERGROUND DISTRIBUTION ENGINEERING STANDARDS SERIES ES53 AND ES54.
  - ANY CHANGES NEED TO HAVE PRIOR APPROVAL OF BC HYDRO CIVIL INSPECTOR.
  - UNLESS OTHERWISE NOTED ON TRENCH DETAILS OR REQUIRED PER ES 54 H0-02.02, ALL CONDUIT INSTALLATION FOR BC HYDRO ON PUBLIC OR PRIVATE PROPERTY SHOULD HAVE MIN. 0.9m COVER AND ANY FACTORY BEND MUST HAVE A MIN. RADIUS OF 0.9m.
  - ALL UTILITIES (EXCEPT TELUS) MUST MAINTAIN A 0.9m HORIZONTAL AND 0.3m VERTICAL SEPARATION FROM BC HYDRO DUCT UNLESS DIRECTED OTHERWISE BY BC HYDRO CIVIL INSPECTOR.
  - OTHER UTILITIES SHOWN ON THE CIVIL DRAWING ARE FOR REFERENCE ONLY. PROVE LOCATION OF ALL UTILITIES IN THE WORK AREA BEFORE CONSTRUCTION. FOR CURRENT INFORMATION CONTACT BC ONE CALL.
  - ALL OFFSETS INDICATE CENTERLINE OF BC HYDRO PLANT.
  - METRES EXPRESSED IN DECIMALS, MILLIMETRES IN WHOLE NUMBERS.
  - TRANSFORMER MUST BE A MIN. OF 1.5m BEHIND NON-MOUNTABLE CURB OR PROTECTED. FINAL NUMBER AND LOCATION OF PROTECTION POSTS TO BE DETERMINED IN THE FIELD BY BC HYDRO CIVIL INSPECTOR.
  - FOR TRANSFORMER PAD COUNTERPOISE CLEARANCES TO OTHER UTILITIES AND UNDERGROUND CONDUCTIVE SURFACES, SEE ES54.
  - MIN. OFFSET FOR BC HYDRO DUCTS, IN JOINT TRENCH, FROM PROPERTY LINE IS 1.2m, UNLESS OTHERWISE NOTED.
  - STUB SERVICE DUCT 1.0m FROM PROPERTY CORNER AND 1.0m INTO THE LOT UNLESS OTHERWISE NOTED.
  - IT IS THE RESPONSIBILITY OF THE RESOURCE THAT IS PERFORMING THE INSTALLATION OF THE PROPOSED CIVIL WORKS TO PROVIDE BC HYDRO WITH A RECORD DRAWING(S) OF THE CONSTRUCTION. THE RECORD DRAWING(S) MUST BE RECEIVED AND ACCEPTED BEFORE ELECTRICAL WORK WILL COMMENCE.

CUSTOM NOTES HERE IF REQUIRED

**ENGINEERING NOTES**

UNLESS NOTED OTHERWISE, ENGINEERING CONTENT ON THIS DRAWING HAS BEEN PRODUCED FOLLOWING A DOCUMENTED BC HYDRO QUALITY MANAGEMENT PROCESS USING BC HYDRO ENGINEERING STANDARDS AUTHENTICATED BY PROFESSIONALS OF RECORD UNDER PERMIT TO PRACTICE NUMBER 1002449

**CIVIL PLAN LEGEND:**

BC HYDRO RESPONSIBILITY	CUSTOMER RESPONSIBILITY
NEW DUCT	EXISTING DUCT
FIELD COMPLETED DUCT	SERVICE BOX
TERMINAL POLE	LOW PROFILE TRANSFORMER (LPT-PYRAMID PAD)
LOW PROFILE TRANSFORMER (LPT)	PAD MOUNT TRANSFORMER (PMT)
3Ø & 1Ø JUNCTION & PULL BOXES (332, 632, 832 & 1232)	PRECAST MANHOLE
VISTA SWITCH SUBMERSIBLE (VSWB)	VISTA SWITCH ABOVE GROUND (VSWA)

REFER TO ES53 AND ES54 UNDERGROUND STANDARDS

**UNDERGROUND UTILITY CHECKS**

Utility	Within 1m of Plant Location (as per Design BC 1 Call) Y/N
Gas	Y
Water	Y
Sanitary Sewer	Y
Storm Sewer	Y
Telephone	N
Cable	N
Electrical	N
Other	N

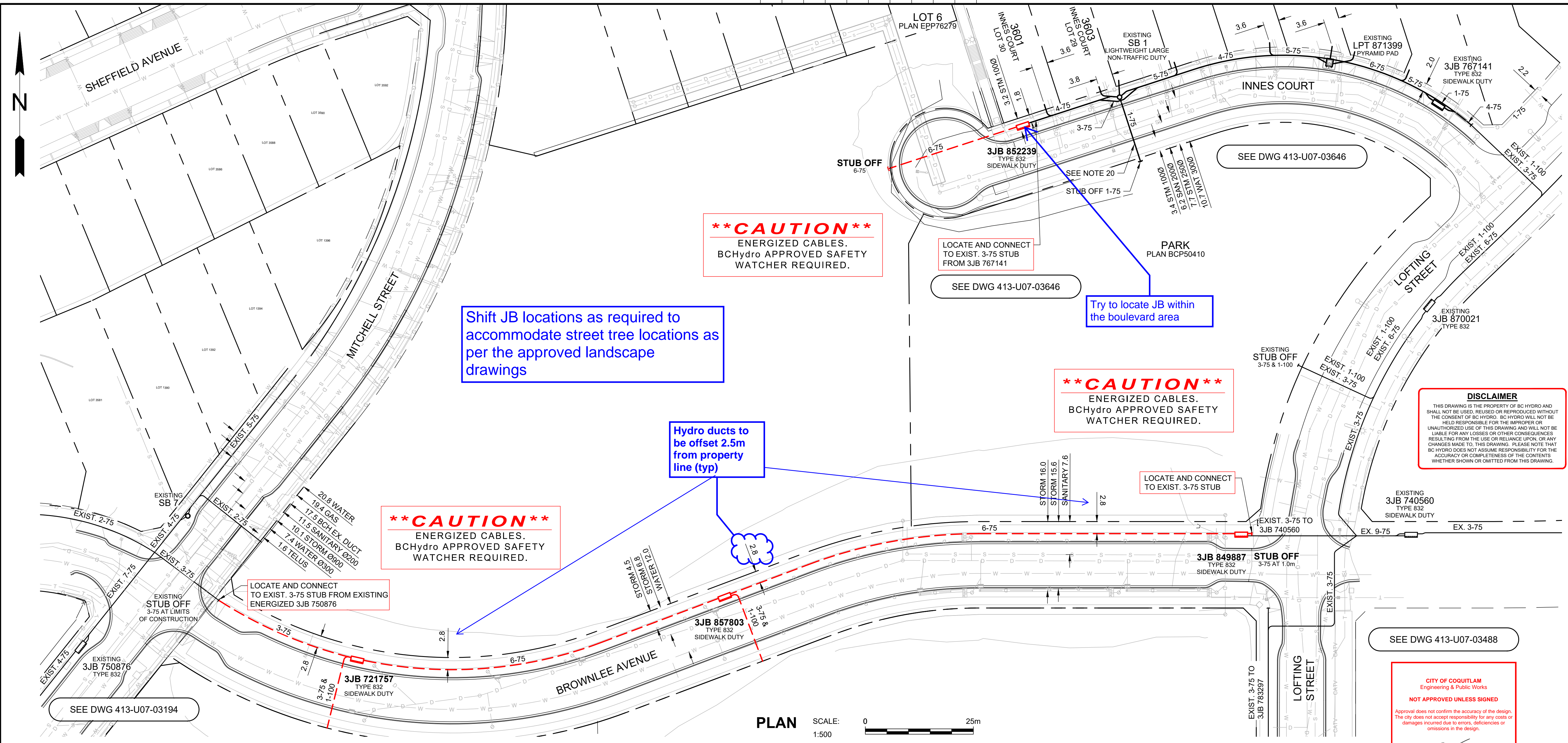
Design BC 1 Call # 20222606760  
 Construction BC 1 Call #  
 Call Renewal Date

For Mechanical Excavation within 1 metre of plant, utilities must be exposed by hand digging, unless the utility / pipeline owner requested a different excavation method.

Design BC 1 Call Ticket number valid for planning purposes only. Ticket refresh by a Construction BC 1 Call must be completed.

**CITY OF COQUITLAM**  
 Engineering & Public Works  
**NOT APPROVED UNLESS SIGNED**  
 Approval does not confirm the accuracy of the design. The city does not accept responsibility for any costs or damages incurred due to errors, deficiencies or omissions in the design.

*CS*  
 Chad Braley  
 Manager of Capital Projects & Inspections  
 12/07/2023  
 Date



PLAN SCALE: 1:500

CIVIL ONE-LINE DIAGRAM N.T.S.

**\*\*CAUTION\*\***  
 ENERGIZED CABLES.  
 BCHydro APPROVED SAFETY WATCHER REQUIRED.

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Shift JB locations as required to accommodate street tree locations as per the approved landscape drawings

Hydro ducts to be offset 2.5m from property line (typ)

Try to locate JB within the boulevard area

**NOT FOR CONSTRUCTION**  
**ISSUED FOR INFORMATION**

DESIGN NUMBER	0004847625	DSGN	K.ISRAELYAN
WORK ORDER NUMBER		INDEF CHK	
CSA S250 ACCURACY NAD83 - 10UTM		DFTG CHK	G.LIRIC (AUS)
BASE ACCURACY LEVEL: 4 +/- 1000 mm		INSP	C.SANBUENAVENTURA (AUS)
ASB ACCURACY LEVEL: 4 +/- 1000 mm		REV	
		ACPT	

NO	DRAWING NUMBER	DRAWING TITLE	REMARKS
3	413-U07-03646	UNDERGROUND DUCT AND STRUCTURES	
2	413-U07-03488	UNDERGROUND DUCT AND STRUCTURES	
1	413-U07-03194	UNDERGROUND DUCT AND STRUCTURES	
NO	DESIGN: 0004847625 - NEW DRAWING		

DATE	2023MAR21	DIST	
DRAWING NUMBER	413-U07-03800	REPORT NUMBER	
FIG NO	D	SIZE	0

**BC Hydro**

LOWER MAINLAND NORTH  
 EDMONDS DISTRICT OFFICE  
 UNDERGROUND DUCT AND STRUCTURES FOR  
 BROWNLEE AVE BACK-BONE @ MITCHELL  
 MITCHELL STREET AND BROWNLEE AVENUE, COQUITLAM  
 SHEET 1 OF 2

**DISCLAIMER**  
 THIS DRAWING IS THE PROPERTY OF BC HYDRO AND SHALL NOT BE USED, REPRODUCED OR REPRODUCED WITHOUT THE CONSENT OF BC HYDRO. BC HYDRO WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND WILL NOT BE LIABLE FOR ANY LOSSES OR OTHER CONSEQUENCES RESULTING FROM THE USE OR RELIANCE UPON, OR ANY CHANGES MADE TO THIS DRAWING. PLEASE NOTE THAT BC HYDRO DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE CONTENTS WHETHER SHOWN OR OMITTED FROM THIS DRAWING.



- CIVIL SPEC. 1323 NOTES:**
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  - TRANSFORMER MUST BE A MIN. OF 1.5m BEHIND NON-MOUNTABLE CURB OR PROTECTED. FINAL NUMBER AND LOCATION OF PROTECTION POSTS TO BE DETERMINED IN THE FIELD BY BC HYDRO CIVIL INSPECTOR.
  - FOR TRANSFORMER PAD COUNTERPOISE CLEARANCES TO OTHER UTILITIES AND UNDERGROUND CONDUCTIVE SURFACES, SEE ES54.
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**CIVIL PLAN LEGEND:**

BC HYDRO RESPONSIBILITY	CUSTOMER RESPONSIBILITY
NEW DUCT	EXISTING DUCT
FIELD COMPLETED DUCT	SERVICE BOX
TERMINAL POLE	LOW PROFILE TRANSFORMER (LPT-PYRAMID PAD)
LOW PROFILE TRANSFORMER (LPT)	PAD MOUNT TRANSFORMER (PMT)
3Ø & 1Ø JUNCTION & PULL BOXES (332, 632, 832 & 1232)	PRECAST MANHOLE
VISTA SWITCH SUBMERSIBLE (VSWB)	VISTA SWITCH ABOVE GROUND (VSWA)

REFER TO ES53 AND ES54 UNDERGROUND STANDARDS

**UNDERGROUND UTILITY CHECKS**

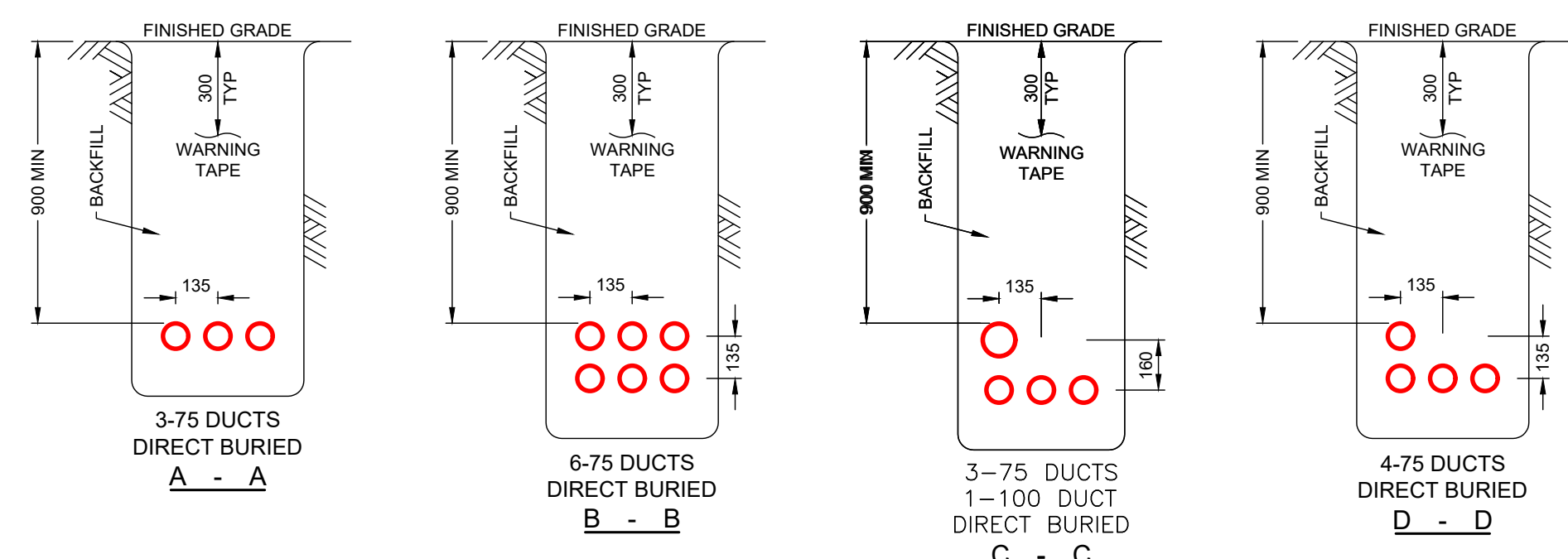
Utility	Within 1m of Plant Location (as per Design BC 1 Call) Y/N
Gas	Y
Water	Y
Sanitary Sewer	Y
Storm Sewer	Y
Telephone	N
Cable	N
Electrical	N
Other	N

Design BC 1 Call # 20222606760  
 Construction BC 1 Call #  
 Call Renewal Date

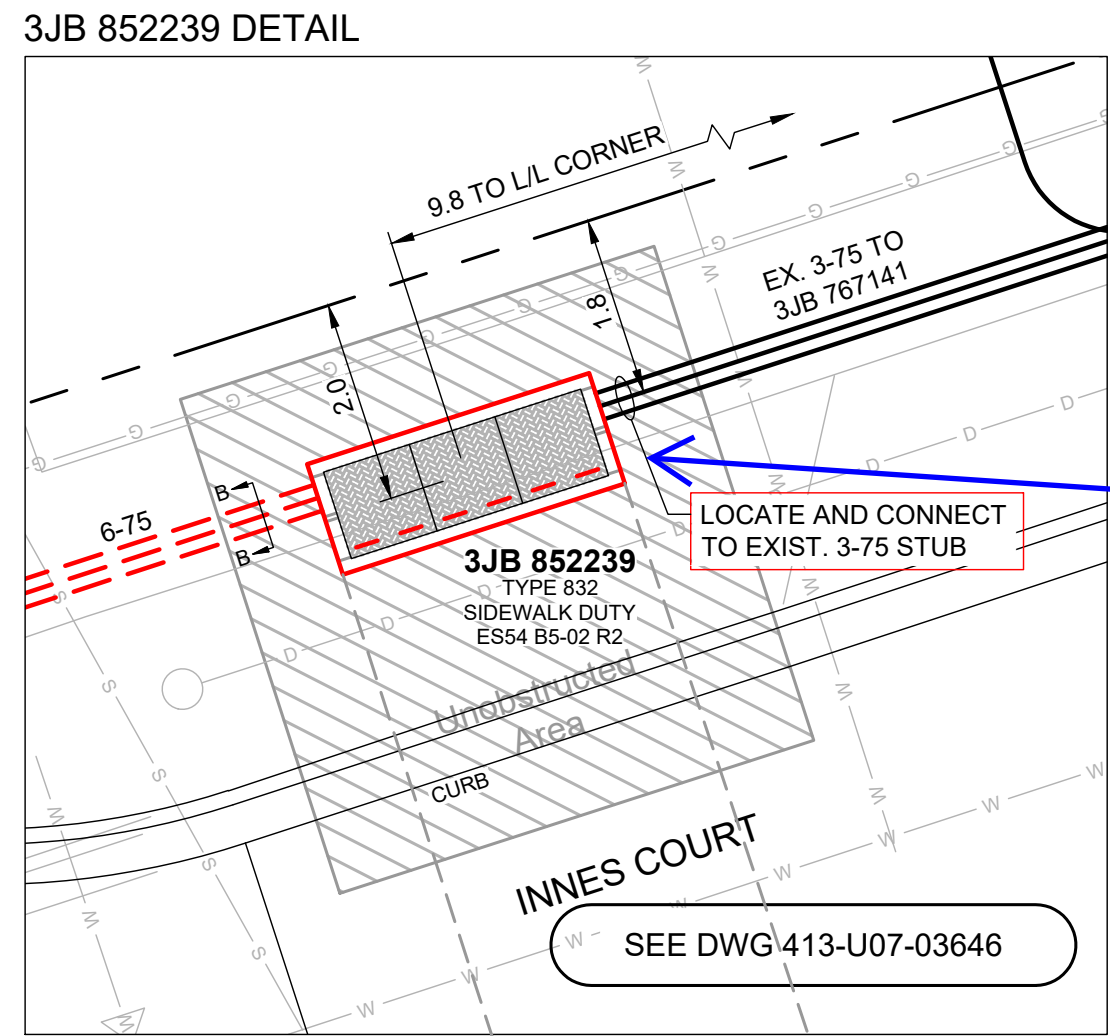
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Design BC 1 Call Ticket number valid for planning purposes only. Ticket refresh by a Construction BC 1 Call must be completed.

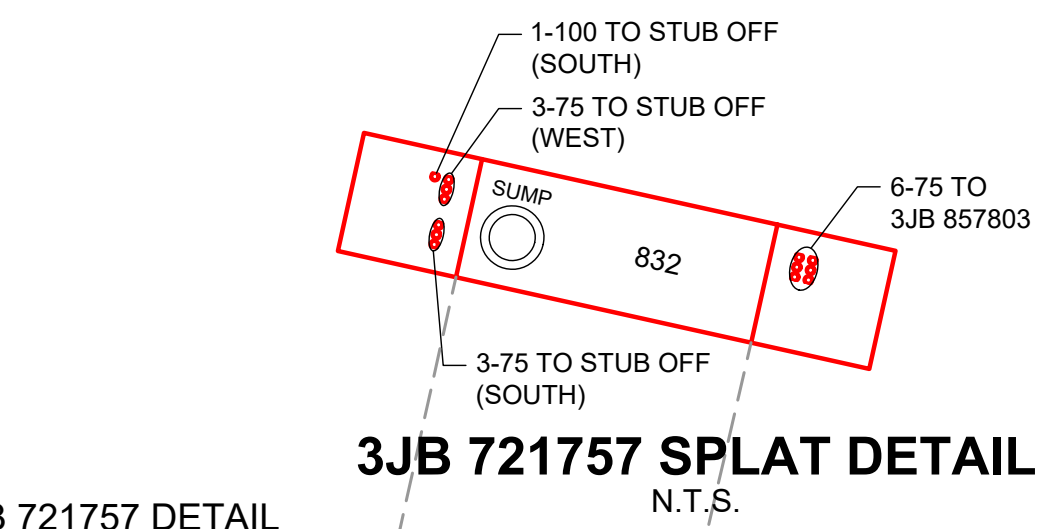
**NOT FOR CONSTRUCTION**  
**ISSUED FOR INFORMATION**



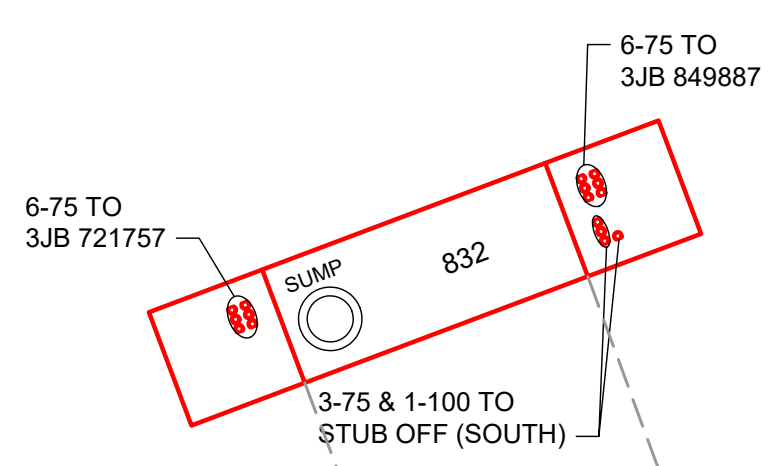
**TRENCH DETAILS**  
N.T.S.



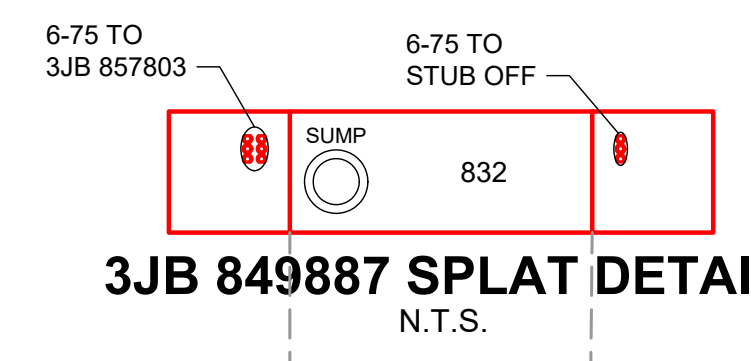
**3JB 852239 SPLAT DETAIL**  
N.T.S.



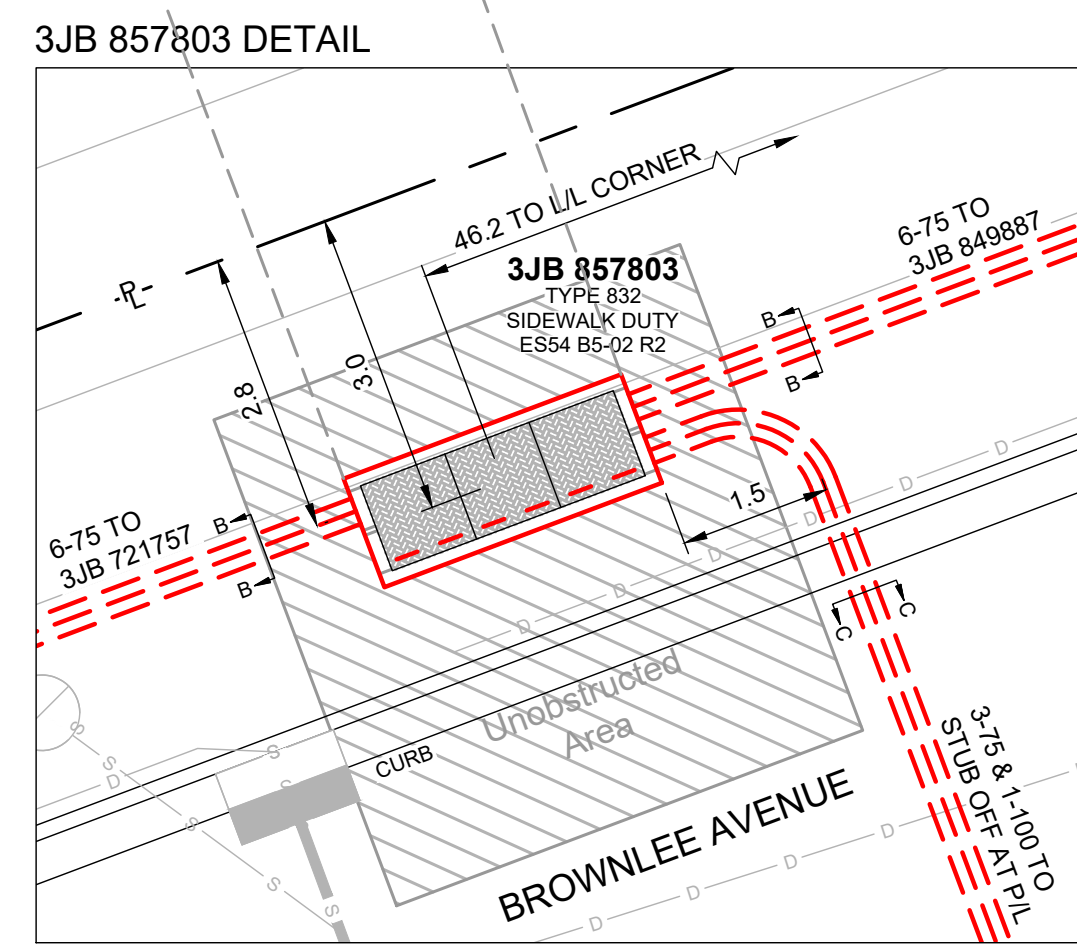
**3JB 721757 SPLAT DETAIL**  
N.T.S.



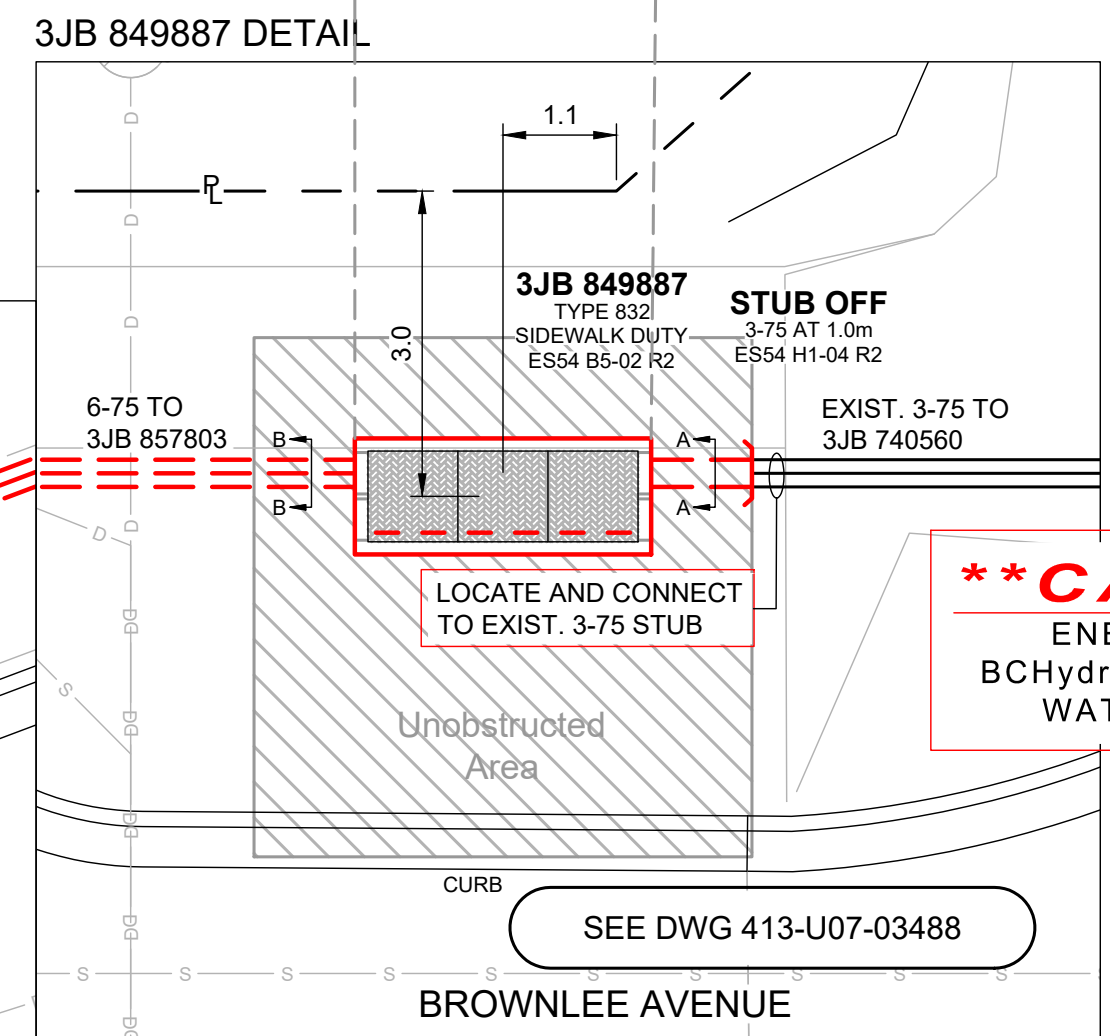
**3JB 857803 SPLAT DETAIL**  
N.T.S.



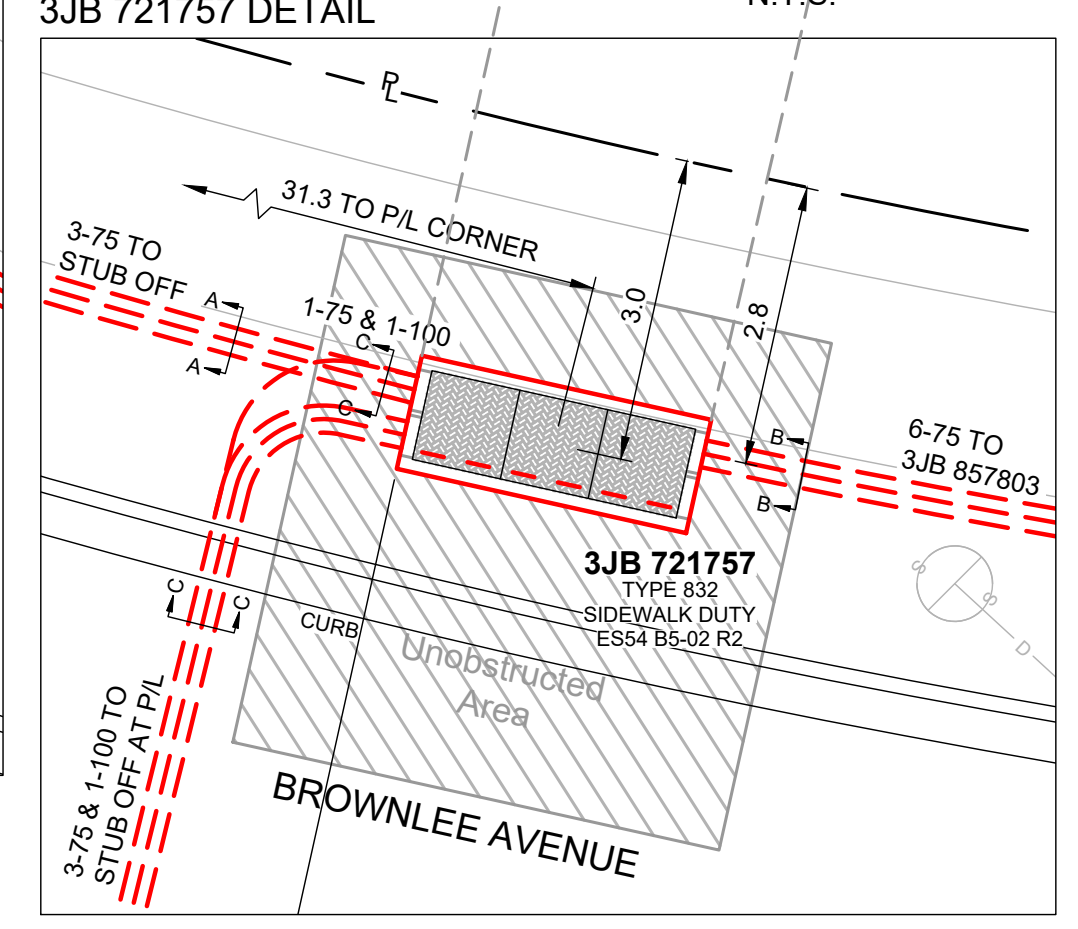
**3JB 849887 SPLAT DETAIL**  
N.T.S.



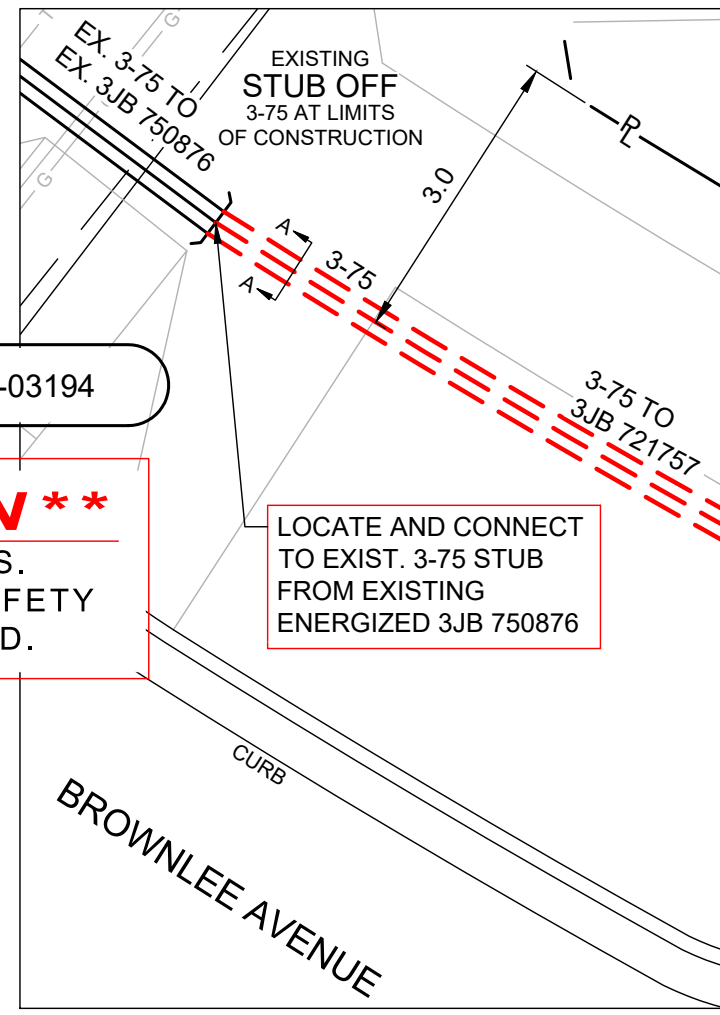
**3JB 857803 DETAIL**  
N.T.S.



**3JB 849887 DETAIL**  
N.T.S.



**3JB 721757 DETAIL**  
N.T.S.



SEE DWG 413-U07-03194

**\*\*CAUTION\*\***  
 ENERGIZED CABLES.  
 BChydro APPROVED SAFETY WATCHER REQUIRED.

LOCATE AND CONNECT TO EXIST. 3-75 STUB FROM EXISTING ENERGIZED 3JB 750876

**\*\*CAUTION\*\***  
 ENERGIZED CABLES.  
 BChydro APPROVED SAFETY WATCHER REQUIRED.

**CITY OF COQUITLAM**  
 Engineering & Public Works  
**NOT APPROVED UNLESS SIGNED**  
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 Chad Braley  
 Manager of Capital Projects & Inspections  
 12/07/2023  
 Date

**DETAILS**  
N.T.S.

3	413-U07-03646	UNDERGROUND DUCT AND STRUCTURES	DESIGN: 0004847625 - NEW DRAWING	DESIGN NUMBER	0004847625	DSGN	K.ISRAELYAN	DATE	2023MAR21	DIST		DRAWING NUMBER	413-U07-03800	REPORT NUMBER		FIG NO		SIZE	D	REV	0
2	413-U07-03488	UNDERGROUND DUCT AND STRUCTURES		WORK ORDER NUMBER		INDEF CHK	G.LIRIC (AUS)														
1	413-U07-03194	UNDERGROUND DUCT AND STRUCTURES		BASE ACCURACY LEVEL:	4 +/- 1000 mm	DFTG CHK	C.SANBUENAVENTURA (AUS)														
NO				ASB ACCURACY LEVEL:	4 +/- 1000 mm	INSP															
NO				REV		ACPT															

**BC Hydro**

**LOWER MAINLAND NORTH**  
 EDMONDS DISTRICT OFFICE  
 UNDERGROUND DUCT AND STRUCTURES FOR  
 BROWNLEE AVE BACK-BONE @ MITCHELL  
 MITCHELL STREET AND BROWNLEE AVENUE, COQUITLAM  
 SHEET 2 OF 2

PERMIT NO. 23 115912 UP

APPLICANT	
Name: TELUS	
Address: 4535 Canada Way Flr 2 Burnaby BC V5G 1J9	
Phone: (604) - e	Date of Application: 31/08/2023

LOCATION
<b>3580 BROWNLEE AVENUE</b>

CONTRACTOR	
Name: TELUS	
Address: 4535 Canada Way Flr 2 Burnaby BC V5G 1J9	
Phone: (604) - e	

Type	Utility	Drawing #
Utility	Telephone	2912415U_R1

PERMISSION IS GRANTED TO:

Construct Telephone as per drawing # 2912415U\_R1 submitted 31/08/2023

Authority / Mandate for issuance of permit: Utility Regulation By-Law No. 707 (1977)

Record drawings required: Yes

For inspection please call: Jim Roulette at 604-603-6232

For QNet Locating please contact at: [QNetDuctLocating@coquitlam.ca](mailto:QNetDuctLocating@coquitlam.ca) or 604-927-3626

Comments:

- Telus conduits to be installed in joint trench with Shaw ducts at an offset of 1.95m from PL.
- Outer edge of proposed ducts, crossing municipal utilities, shall achieve a minimum of 0.3m vertical clearance from outer edge of affected utilities.
- Adjust locations of SVs as required to accommodate the installation of street trees as per approved landscape drawings.
- Proposed SVs to be set to meet proposed boulevard finished grade ensuring no tripping hazards on City property.
- Please note, Brownlee Ave, Mitchell St and Lofting St Utility and Roadworks Project is in the area. Please contact Chad Braley at 604-927-3513 or [cbraley@coquitlam.ca](mailto:cbraley@coquitlam.ca) to ensure there are no scheduling conflicts.

Date: 09/05/2023

Signature:

(For the General Manager –  
**Engineering & Public Works**)  
Approved by: Gerald Reyes

All work must be completed in accordance with all current City adopted standards, specifications, and regulations.

Contractor(s) is responsible for field verification of all existing utility locations.

Utility Company/Contractor to provide notification letters to all impacted property owners min. (1) one week prior to construction.

Utility Company/Contractor must contact the City of Coquitlam Inspector min (2) weeks prior to construction.

Ensure QNet Locator is contacted before any construction begins to confirm the location of Surface Inlay Fibre.

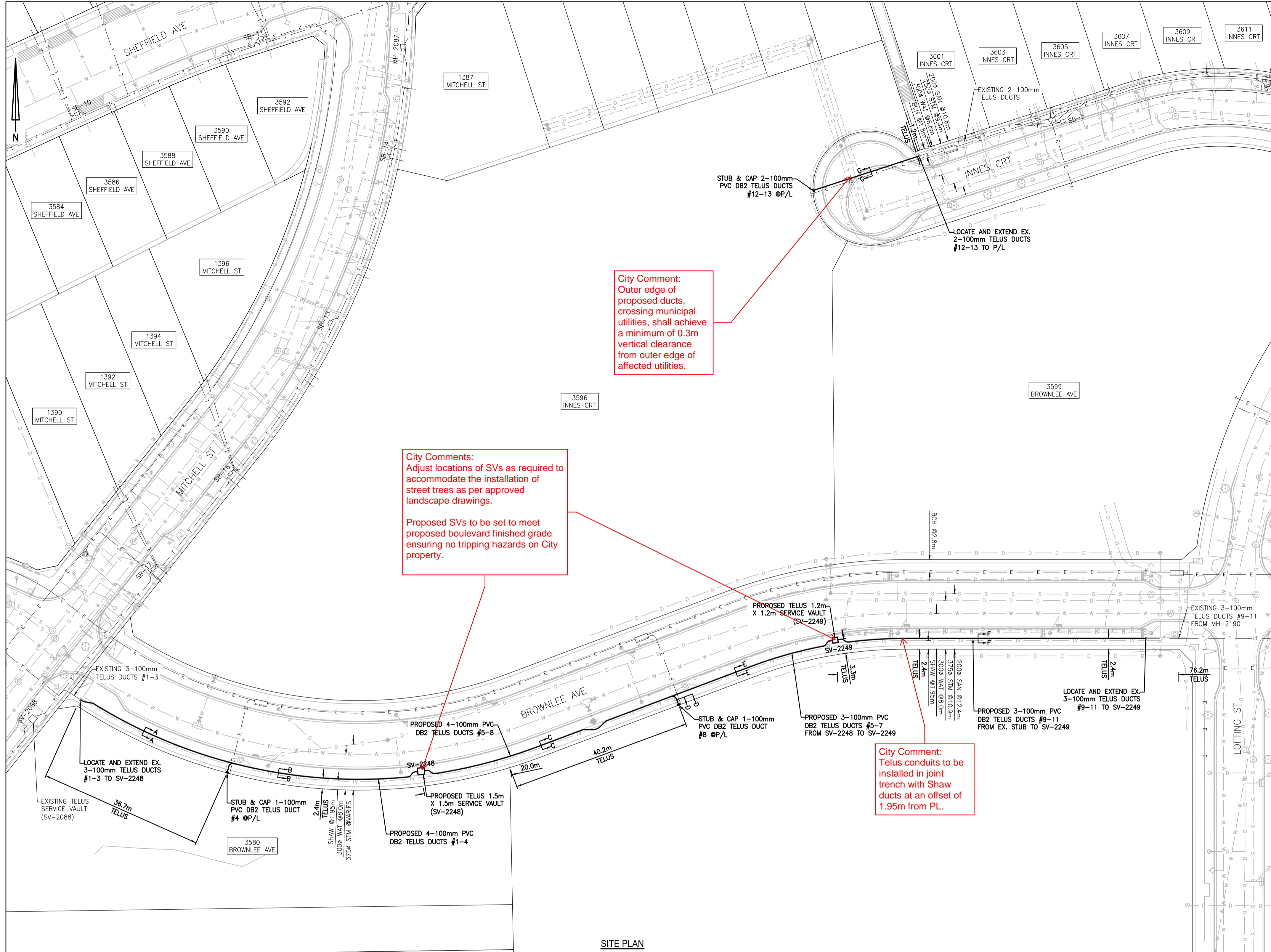
Utility Company is required to submit an as-built drawing within 30 days of completion of the work to

[UtilityPermits@coquitlam.ca](mailto:UtilityPermits@coquitlam.ca)

\*\* Call BC One Call at least two full working days before you dig at 604-257-1940. \*\*

Issue Date: 05/09/2023

Expiry Date: 04/09/2024

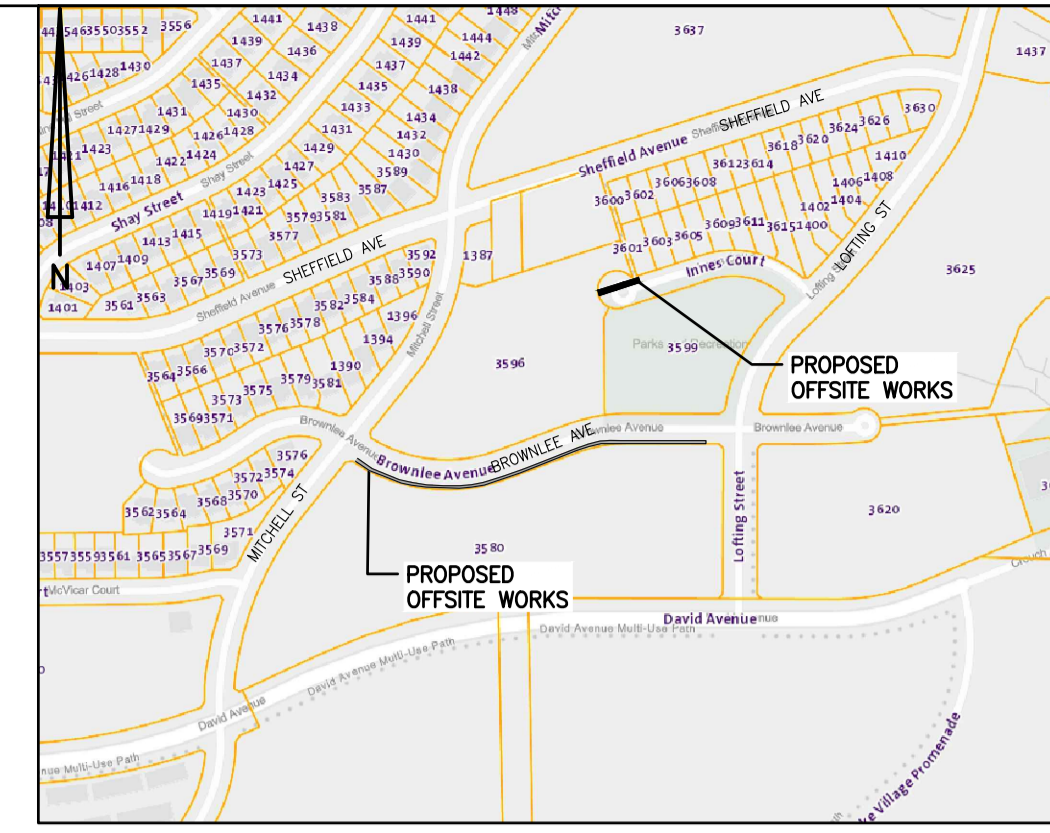


**City Comments:**  
Adjust locations of SVs as required to accommodate the installation of street trees as per approved landscape drawings.

Proposed SVs to be set to meet proposed boulevard finished grade ensuring no tripping hazards on City property.

**City Comment:**  
Outer edge of proposed ducts, crossing municipal utilities, shall achieve a minimum of 0.3m vertical clearance from outer edge of affected utilities.

**City Comment:**  
Telus conduits to be installed in joint trench with Shaw ducts at an offset of 1.95m from PL.



**CITY OF COQUITLAM**  
Engineering & Public Works

**NOT APPROVED UNLESS SIGNED**

Approval does not confirm the accuracy of the design. The City does not accept responsibility for any costs or damages incurred due to errors, deficiencies or omissions in the design.

*[Signature]*

On behalf of the Manager of Capital Projects & Inspections

09/05/2023

Date

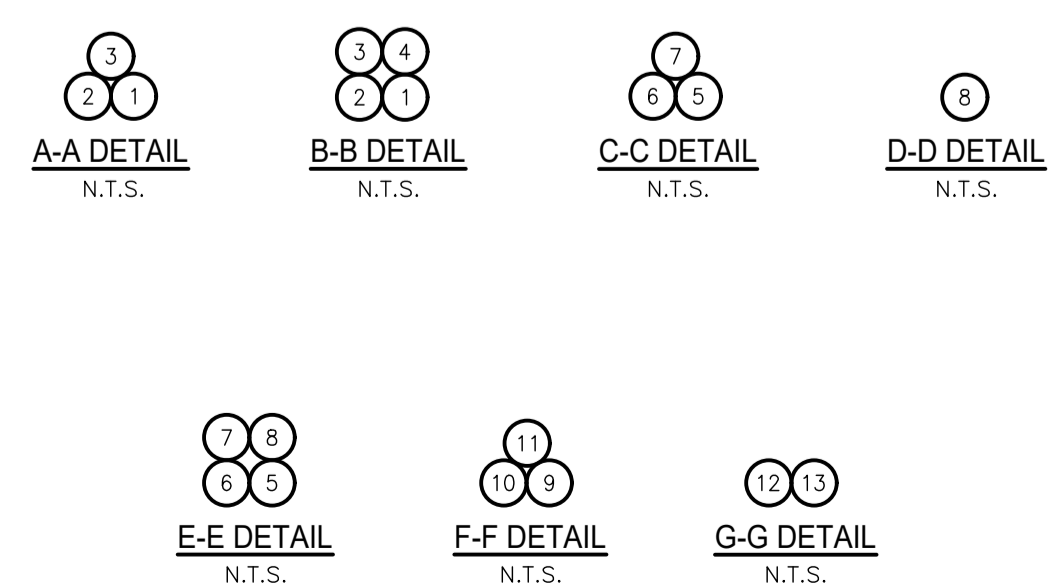
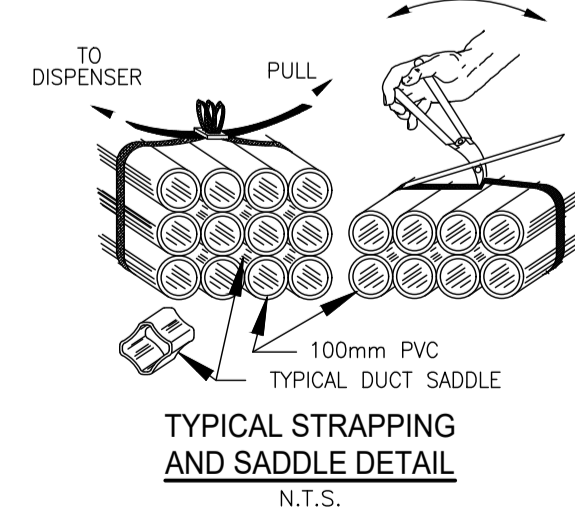
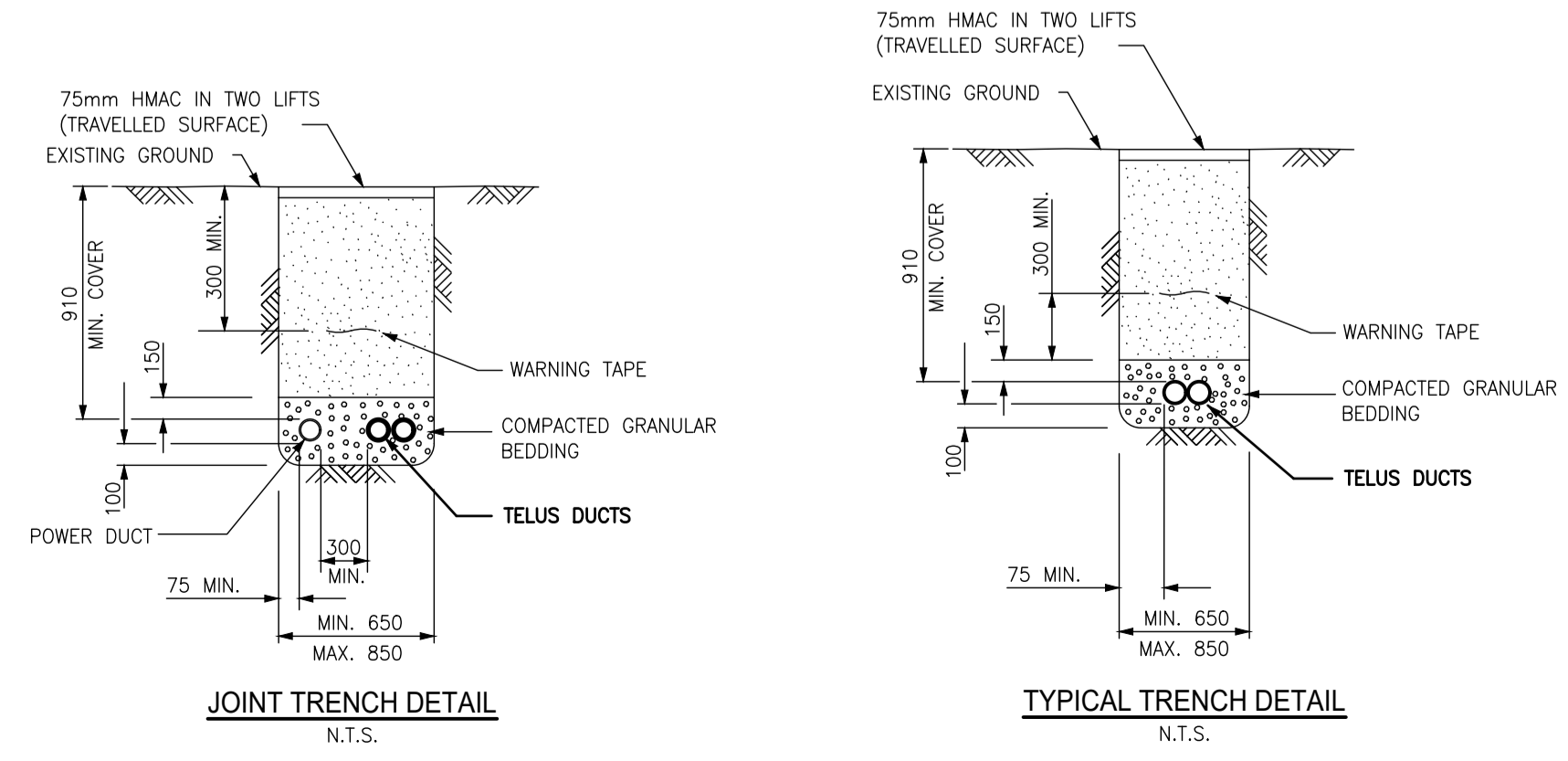
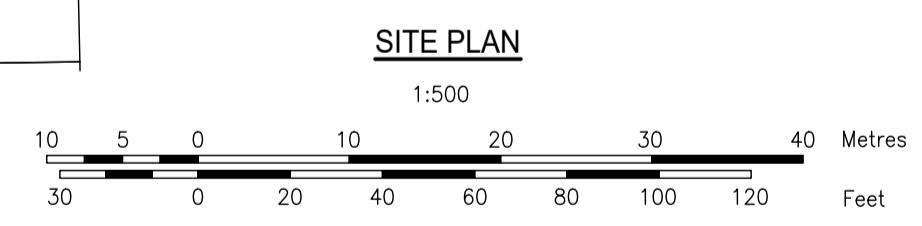
**UTILITY LEGEND**

---	EXISTING TELUS
---	OIL LINE
---	ELECTRICAL UTILITY
---	SANITARY
---	DRAINAGE
---	WATER
---	SANITARY & DRAINAGE
---	GAS UTILITY
---	STREET LIGHTING
---	OTHER COMMUNICATIONS
---	CATV UTILITY
---	POLE
---	PROPOSED DUCT
---	CONCRETE ENCASED
---	PROPOSED CONCRETE SERVICE BOX
---	PROPOSED (SERVICE VAULT)
---	PROPOSED MANHOLE

- DEVELOPERS NOTES:**
- CONTACT TELUS 10 DAYS BEFORE PROJECT START TO ARRANGE PICKUP LOCATION OF TELUS SUPPLIED MATERIAL.  
KATHY.MIDWOOD@TELUS.COM
  - CONTRACTOR TO CONTACT THE APPROPRIATE GAS COMPANY 24 HOURS PRIOR TO STARTING WORK.
  - CONTACT CITY/MUNICIPAL WORKS INSPECTOR 48 HOURS PRIOR TO STARTING JOB.
  - CONTACT TELUS FOR INSPECTION 48 HOURS PRIOR TO STARTING JOB.  
CIVILINSPECTION.LMLD@ENCEPTA.NET & KATHY.MIDWOOD@TELUS.COM
  - INSTALLATION TO BE AS PER TELUS SPECIFICATION NO. 6020 (CURRENT ISSUE) AND/OR SPECIFICATION NO. 6003 (CURRENT ISSUE)
  - MAINWAY DUCT IS TYPE DB.II (ORANGE) 100mm PVC
  - ALL SERVICE DUCTS ARE TO BE 50mm TYPE 700 (ORANGE) UNLESS OTHERWISE NOTED.
  - ALL EXCAVATION BACKFILLING AND RESTORATION IS TO BE CARRIED OUT IN ACCORDANCE WITH CITY/MUNICIPAL M.O.T.H. SPECIFICATION TO THE SATISFACTION OF THE APPROVING AUTHORITY.
  - SERVICE BOX LID TO BE SET AT FINAL GRADE AS DETERMINED BY SURVEYOR.
  - ALL STUBBED OFF SERVICE DUCTS OR MAINWAY DUCTS TO BE CAPPED AND MARKED WITH 2 X 4 PAINTED ORANGE AND INSTALLED AT END OF DUCT.
  - ALL TO BE INSTALLED IN MANHOLES, SERVICE VAULTS, SERVICE BOXES, AND/OR DUCTS AT LATERAL POLES AS REQUIRED TO PREVENT SURCHARGING. CONTRACTOR TO COORDINATE WITH TELUS INSPECTOR FOR INSTALLATION.
  - ALL MAINWAY DUCTS ARE TO BE MANDRELLED AFTER BACKFILL AND COMPACTION ARE COMPLETE, USING TELUS APPROVED MANDRELL, IN THE PRESENCE OF TELUS INSPECTOR.
  - ALL CHANGES IN DIRECTION OF MAINWAY DUCT REQUIRING MANUFACTURED BENDS SHALL BE CONCRETE ENCASED.
  - PLACE 3.0mm BRAIDED NYLON CORD IN ALL MAINWAY AND SERVICE DUCTS.
  - TELUS FORCES TO BREAK INTO EXISTING SERVICE BOX (ES) CONTACT TELUS INSPECTOR 48 HOURS PRIOR TO COORDINATE.
  - WHERE FIBERGLASS SERVICE BOXES ARE USED, CONTRACTOR TO USE A SILICON BASED CAULKING TO SEAL DUCT ENTRY INTO BOX.
  - ALL DIRECT BURIED SYSTEMS 2-WAY AND LARGER TO BE BUNDLED AND STRAPPED.
  - PLACE CONDUIT IN JOINT TRENCH WITH POWER COMPANY WITH A MINIMUM COVER OF 0.91m UNLESS OTHERWISE NOTED.
  - THE LOCATION OF ALL EXISTING UTILITIES INCLUDING UNDERGROUND SURFACE AND OVERHEAD UTILITIES ARE NOT GUARANTEED NOR IS IT GUARANTEED THAT ALL UTILITIES WHICH MAY BE ENCOUNTERED ARE SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL THE UTILITIES AND PAYING FOR ANY DAMAGE RESULTING FROM HIS ENCOUNTERING THEM.
  - ORANGE TELUS MARKER TAPE TO BE PLACED ON CENTERLINE OF DUCT BANK @ 300mm BELOW FINAL GRADE.
  - FOR CABLE TROUBLE OR REPAIR INFORMATION, CONTACT TELUS @ 611.
  - MINIMUM SEPARATION FROM ALL UTILITIES TO BE 300mm.
  - FOR ALL DUCTS (KNOCKOUTS AND CORE-DRILLED) PLACED ON TELUS STRUCTURES, PLACE BELL END, GROUT, FLARE AND MAKE IT FLUSH WITH THE STRUCTURE WALL.

**REFERENCE DRAWINGS**

SA-100035	TYPE 'H' M.H. O.D. 3.40m X 1.90m X 2.0HR
SA-100036	TYPE 'J' M.H. O.D. 4.40m X 2.20m X 2.0HR
SA-100037	TYPE 'K' M.H. O.D. 4.40m X 2.50m X 2.0HR
SA-100038	TYPE 'L' M.H. O.D. 5.30m X 2.50m X 2.0HR
SA-100039	TYPE 'T' TRIANGULAR JUNCTION M.H. - MAIN O.D. 4.10m X 4.10m X 2.0HR
SA-100040	TYPE 'C-2' TRIANGULAR M.H. - MAIN O.D. 3.40m X 3.40m X 2.0HR
SA-100041	TYPE 'C-3' TRIANGULAR M.H. - MAIN O.D. 4.00m X 4.00m X 2.0HR
SA-100076	PRECAST MINI M.H. 2102 O.D. 2.37m X 1.19m X 2.0mHR
SA-100083	PRECAST M.H. PLMH 3152 O.D. 3.31m X 1.81m X 2.0HR
SA-100084	PRECAST M.H. PLMH 4162 O.D. 4.32m X 1.88m X 2.0HR
SA-100033	SPEC. SHEET - M.H. REINFORCING STEEL
SA-100034	TYPICAL METHOD OF LAYING DUCT BANK
SA-100004	SUMP C/W BACKWATER VALVE
SA-100010	INSTALLATION-BACKWATER VALVE IN M.H. WALL
SA-100030	POLE PILASTER DETAIL
SA-100051	F.R.P. SPLICE BOX
SA-100016	SAC PAD DETAIL (VANCOUVER AREA)
SA-100014	SAC PAD DETAIL (OTHER AREAS)
SA-100074	SAC PAD DETAIL (5400X & 2700X)
SA-100000	1.2m X 1.2m SERVICE VAULT
SA-100001	1.5m X 1.5m SERVICE VAULT
SA-100003	TYPE 5686 SERVICE BOX
SA-100092	CONTROLLED ENVIRONMENT CABINET (W/C)
SA-100057	PRECAST M.H. PLMH 3152 O.D. 3.31m X 1.81m X 2.0HR
SA-100032	PRECAST M.H. PLMH 4152 O.D. 4.32m X 1.88m X 2.0HR



**DEVELOPER INFO**  
CITY OF COQUITLAM  
@604-927-3513

**ENG CONSULTANT INFO**  
ISL ENGINEERING AND LAND SERVICES LTD.  
CARL BRUGGEMAN @604-629-2696

**BC ONE CALL**  
CALL BEFORE YOU DIG  
1-800-474-6886 OR BY CELLULAR  
\*6886 VANCOUVER AREA 257-1940  
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

**ALL SERVICE VAULTS & SERVICE BOXES TO BE PLACED OUTSIDE SIDEWALKS, DRIVEWAYS AND ROADWAYS**

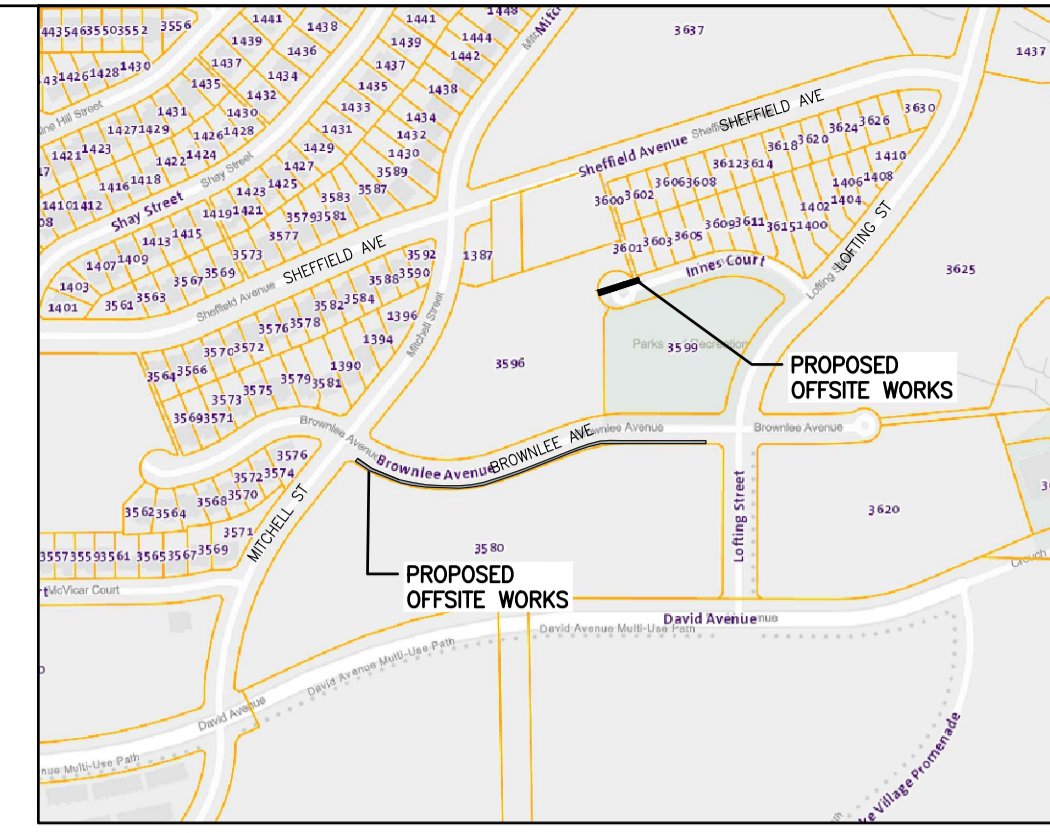
**CONTRACTOR MUST ACQUIRE TRAFFIC OBSTRUCTION PERMIT BEFORE PROCEEDING**

**DISCLAIMER**  
THE LOCATIONS OF UTILITIES SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PERSONS WORKING IN THE AREA COVERED BY THIS DRAWING MUST CALL THE APPROPRIATE DIAL-BEFORE-YOU-DIG TO ASCERTAIN THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.

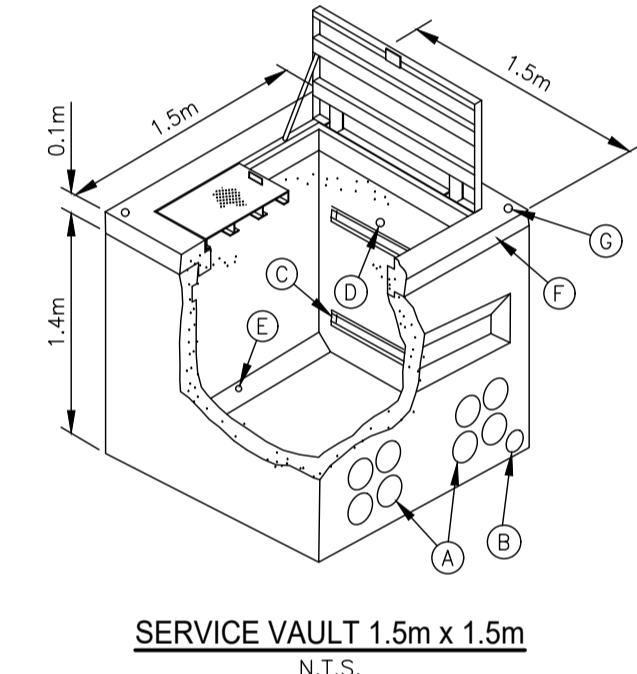
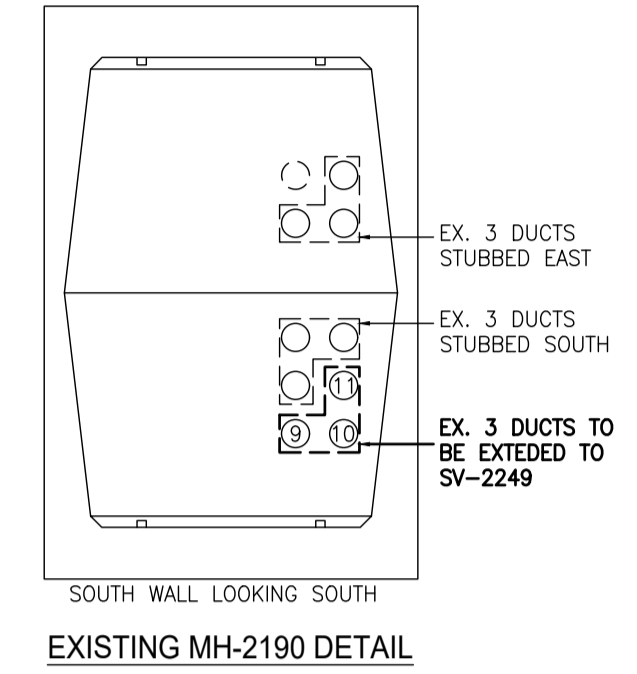
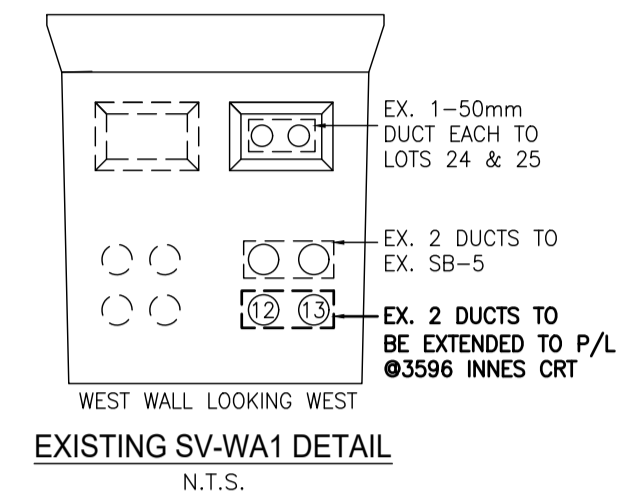
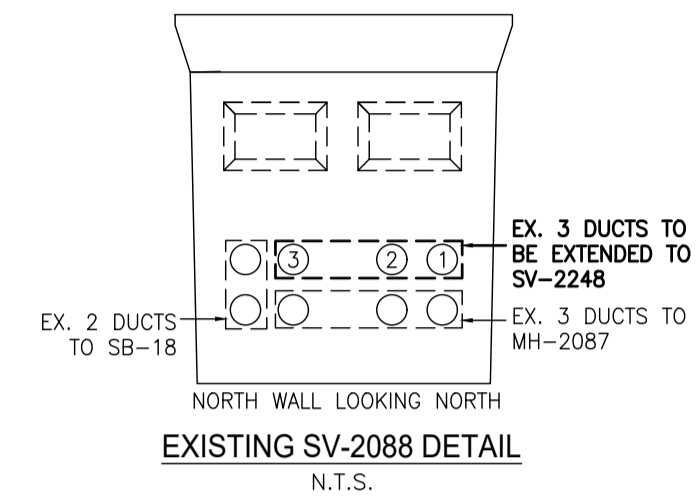
PREPARED BY: <b>Encepta</b>	PERMIT & CONSTRUCTION IRF DATE: N/A IRF-SUB DATE: N/A IFR-SUB DATE: N/A PERMIT APPROVED: N/A IFC DATE: N/A AS CONSTRUCT DATE:	DESIGN: RAMNEET SINGH PH: 437-989-5172 E: rsingh@encepta.net DATE: 23-07-26 ASSOCIATED DRAWINGS JIRA ID: NGMR-52195	DR: R. SINGH SCALE: AS SHOWN TELUS: 2604715U, 2745520UR2, 2836298U BC HYDRO: 413-U07-03800 DEVELOPER: OTHER:	THE WORKS PROPOSED ON THIS DRAWING SHALL AT ALL TIMES REMAIN THE PROPERTY OF TELUS <b>PROPOSED U/G CONSTRUCTION IN JOINT TRENCH WITH BC HYDRO ON BROWNLEE AVE @ MITCHELL ST AND INNES CRT CITY OF COQUITLAM</b> C.O. CODE: <b>WSWD</b> 2912415U_R1 SHEET 1 OF 2 SYSTEM NAME: 2912415U1-20QTL_R1
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**DEVELOPERS NOTES:**

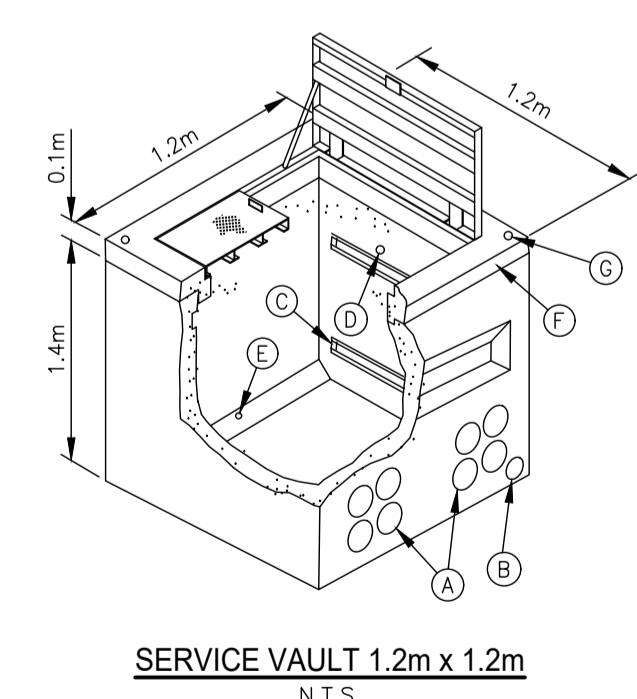
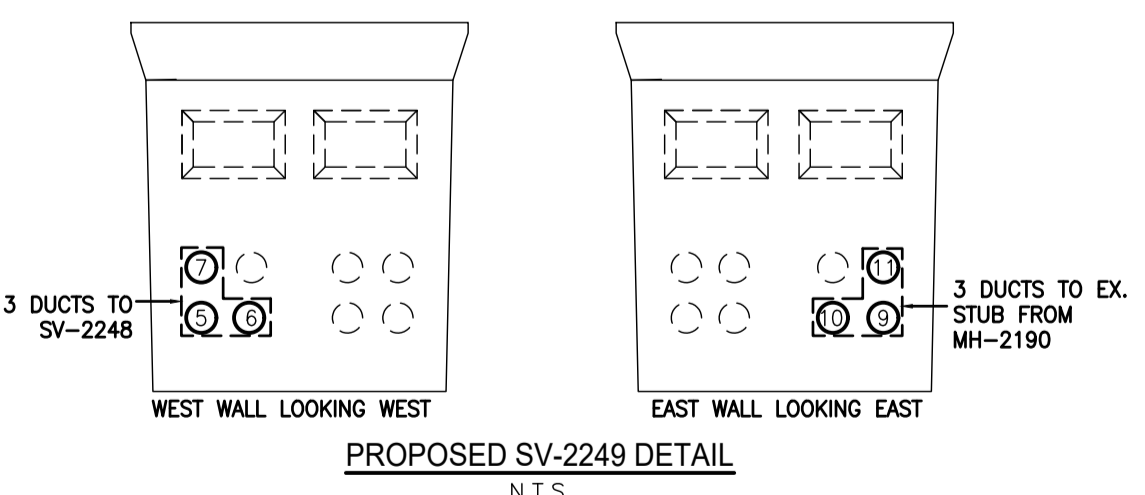
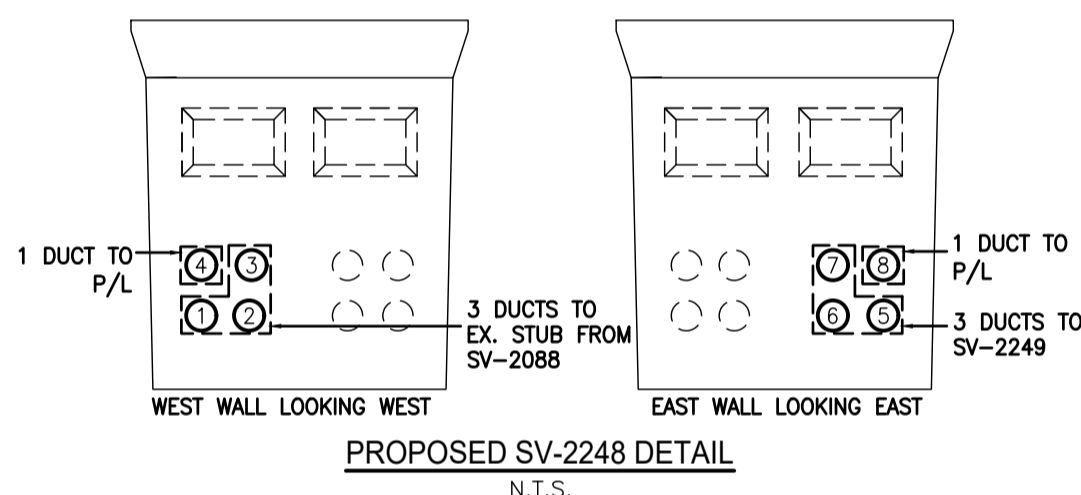
- CONTACT TELUS 10 DAYS BEFORE PROJECT START TO ARRANGE PICKUP LOCATION OF TELUS SUPPLIED MATERIAL.  
KATHY.MIDWOOD@TELUS.COM
- CONTRACTOR TO CONTACT THE APPROPRIATE GAS COMPANY 24 HOURS PRIOR TO STARTING WORK.
- CONTACT CITY/MUNICIPAL WORKS INSPECTOR 48 HOURS PRIOR TO STARTING JOB.
- CONTACT TELUS FOR INSPECTION 48 HOURS PRIOR TO STARTING JOB.  
CIVILINSPECTION.LMLD@ENCEPTA.NET & KATHY.MIDWOOD@TELUS.COM
- INSTALLATION TO BE AS PER TELUS SPECIFICATION NO. 6020 (CURRENT ISSUE) AND/OR SPECIFICATION NO. 6003 (CURRENT ISSUE)
- MAINWAY DUCT IS TYPE DB.II (ORANGE) 100mm PVC
- ALL SERVICE DUCTS ARE TO BE 50mm TYPE 700 (ORANGE) UNLESS OTHERWISE NOTED.
- ALL EXCAVATION BACKFILLING AND RESTORATION IS TO BE CARRIED OUT IN ACCORDANCE WITH CITY/MUNICIPAL M.O.T.H. SPECIFICATION TO THE SATISFACTION OF THE APPROVING AUTHORITY.
- SERVICE BOX LID TO BE SET AT FINAL GRADE AS DETERMINED BY SURVEYOR.
- ALL STUBBED OFF SERVICE DUCTS OR MAINWAY DUCTS TO BE CAPPED AND MARKED WITH 2 X 4 PAINTED ORANGE AND INSTALLED AT END OF DUCT.
- DRAINS TO BE INSTALLED IN MANHOLES, SERVICE VAULTS, SERVICE BOXES, AND/OR DUCTS AT LATERAL POLES AS REQUIRED TO PREVENT SURCHARGING. CONTRACTOR TO COORDINATE WITH TELUS INSPECTOR FOR INSTALLATION.
- ALL MAINWAY DUCTS ARE TO BE MANDRELLED AFTER BACKFILL AND COMPACTION ARE COMPLETE, USING TELUS APPROVED MANDRELL, IN THE PRESENCE OF TELUS INSPECTOR.
- ALL CHANGES IN DIRECTION OF MAINWAY DUCT REQUIRING MANUFACTURED BENDS SHALL BE CONCRETE ENCASED.
- PLACE 3.0mm BRAIDED NYLON CORD IN ALL MAINWAY AND SERVICE DUCTS.
- TELUS FORCES TO BREAK INTO EXISTING SERVICE BOX (ES) CONTACT TELUS INSPECTOR 48 HOURS PRIOR TO COORDINATE.
- WHERE FIBERGLASS SERVICE BOXES ARE USED, CONTRACTOR TO USE A SILICON BASED CAULKING TO SEAL DUCT ENTRY INTO BOX.
- ALL DIRECT BURIED SYSTEMS 2-WAY AND LARGER TO BE BUNDLED AND STRAPPED.
- PLACE CONDUIT IN JOINT TRENCH WITH POWER COMPANY WITH A MINIMUM COVER OF 0.91m UNLESS OTHERWISE NOTED.
- THE LOCATION OF ALL EXISTING UTILITIES INCLUDING UNDERGROUND SURFACE AND OVERHEAD UTILITIES ARE NOT GUARANTEED NOR IS IT GUARANTEED THAT ALL UTILITIES WHICH MAY BE ENCOUNTERED ARE SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL THE UTILITIES AND PAYING FOR ANY DAMAGE RESULTING FROM HIS ENCOUNTERING THEM.
- ORANGE TELUS MARKER TAPE TO BE PLACED ON CENTERLINE OF DUCT BANK @ 300mm BELOW FINAL GRADE.
- FOR CABLE TROUBLE OR REPAIR INFORMATION, CONTACT TELUS @ 611.
- MINIMUM SEPARATION FROM ALL UTILITIES TO BE 300mm.
- FOR ALL DUCTS (KNOCKOUTS AND CORE-DRILLED) PLACED ON TELUS STRUCTURES, PLACE BELL END, GROUT, FLARE AND MAKE IT FLUSH WITH THE STRUCTURE WALL.



LOCATION MAP  
N.T.S.



- NOTES:**
- GROUT ALL JOINTS, DUCTS, AND DRAIN ENTRANCES FRAME & COVER AVAILABLE.
  - VAULT TO BE SET ON COMPACTED SAND EXCEPT WHERE DRAIN ROCK IS REQUIRED.
  - C/W UNISTRUT INSTALLED.
  - 4-19mm EYE BOLTS ARE USED TO INSTALL THE LID AND BASE UNITS.
- A. 100mm DUCT TERMINATORS (TYP)  
B. 127mm DRAIN KNOCKOUTS (2)  
C. 41mm x 22mm UNISTRUT  
D. 19mm LIFTING INSERT (4) IN BASE SECTION  
E. 25mm PULLING INSERT (2)  
F. CONCRETE MH RING c/w HINGED METAL LIDS  
G. 19mm LIFTING INSERT (4) IN LID SECTION



- NOTES:**
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**CITY OF COQUITLAM**  
Engineering & Public Works

**NOT APPROVED UNLESS SIGNED**

Approval does not confirm the accuracy of the design. The City does not accept responsibility for any costs or damages incurred due to errors, deficiencies or omissions in the design.

*[Signature]*

On behalf of the Manager of Capital Projects & Inspections

09/05/2023

Date

UTILITY LEGEND	
—	EXISTING TELUS
—	OIL LINE
—	ELECTRICAL UTILITY
—	SANITARY
—	DRAINAGE
—	WATER
—	SANITARY & DRAINAGE
—	GAS UTILITY
—	STREET LIGHTING
—	OTHER COMMUNICATIONS
—	CATV UTILITY
○	POLE
—	PROPOSED DUCT
—	CONCRETE ENCASED
—	PROPOSED CONCRETE SERVICE BOX
—	PROPOSED (SERVICE VAULT)
—	PROPOSED MANHOLE

REFERENCE DRAWINGS	
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DEVELOPER INFO  
CITY OF COQUITLAM  
@604-927-3513

ENG CONSULTANT INFO  
ISL ENGINEERING AND LAND SERVICES LTD.  
CARL BRUGGEMAN @604-629-2696

PLEASE CONTACT TELUS FOR INSPECTION 48 HOURS PRIOR TO STARTING CONDUIT BUILD  
KATHY.MIDWOOD@TELUS.COM  
CIVILINSPECTION.LMLD@ENCEPTA.NET & KATHY.MIDWOOD@TELUS.COM  
ANY QUESTIONS CAN BE DIRECTED TO LEO SPINOLA 778-791-5939

ALL TELUS CIVIL BUILD, BOTH ON-SITE AND OFF-SITE IS TO BE COMPLETED BY THE DEVELOPER OR THEIR CONTRACTORS

**BC ONE CALL**  
CALL BEFORE YOU DIG  
1-800-474-6886 OR BY CELLULAR  
\*6886 VANCOUVER AREA 257-1940  
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

ALL SERVICE VAULTS & SERVICE BOXES TO BE PLACED OUTSIDE SIDEWALKS, DRIVEWAYS AND ROADWAYS  
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PREPARED BY: <b>Encepta</b>	PERMIT & CONSTRUCTION IRF DATE: N/A IFR-SUB DATE: N/A IFR-SUB DATE: N/A IFC DATE: N/A AS CONSTRUCT DATE:	DESIGN: RAMNEET SINGH DR: R. SINGH PH: 437-989-5172 SCALE: AS SHOWN DATE: 23-07-26 E: rsingh@encepta.net ASSOCIATED DRAWINGS JIRA ID: NGRM-52195	TELUS: 2604715U, 2745520UR2, 2836298U BC HYDRO: 413-U07-03800 DEVELOPER: OTHER:
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THE WORKS PROPOSED ON THIS DRAWING SHALL AT ALL TIMES REMAIN THE PROPERTY OF TELUS	C.O. CODE <b>WSWD</b>	SYSTEM NAME: 2912415U2-2CQTL_R1
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**PROPOSED U/G CONSTRUCTION IN JOINT TRENCH WITH BC HYDRO ON BROWNLEE AVE @MITCHELL ST AND INNES CRT**  
CITY OF COQUITLAM

2912415U\_R1  
SHEET 2 OF 2

**TELUS**

A1

**PERMIT NO. 23 110864 UP**

<b>APPLICANT</b>	
Name: SHAW CABLESYSTEMS G.P.	Date of Application: 21/06/2023
Address: 1067 WEST CORDOVA St Unit 900 Vancouver BC Appl_Postal	
Phone: (604) 629-4497 e	

<b>LOCATION</b>
<b>MITCHELL STREET/BROWNLEE AVENUE/LOFTING STREET</b>

<b>CONTRACTOR</b>	
Name: SHAW CABLESYSTEMS G.P.	
Address: 1067 WEST CORDOVA St Unit 900 Vancouver BC	
Phone: (604) 629-4497 e	

Type	Utility	Drawing #
Utility	Cable	PRJ-2188423 Rev A


**PERMISSION IS GRANTED TO:**

Construct Cable as per drawing # PRJ-2188423 Rev A submitted 21/06/2023  
 Authority / Mandate for issuance of permit: Utility Regulation By-Law No. 707 (1977)  
 Record drawings required: Yes  
 For inspection please call: Jim Roulette at 604-603-6232  
 For QNet Locating please contact at: [QNetDuctLocating@coquitlam.ca](mailto:QNetDuctLocating@coquitlam.ca) or 604-927-3626

**Comments:**

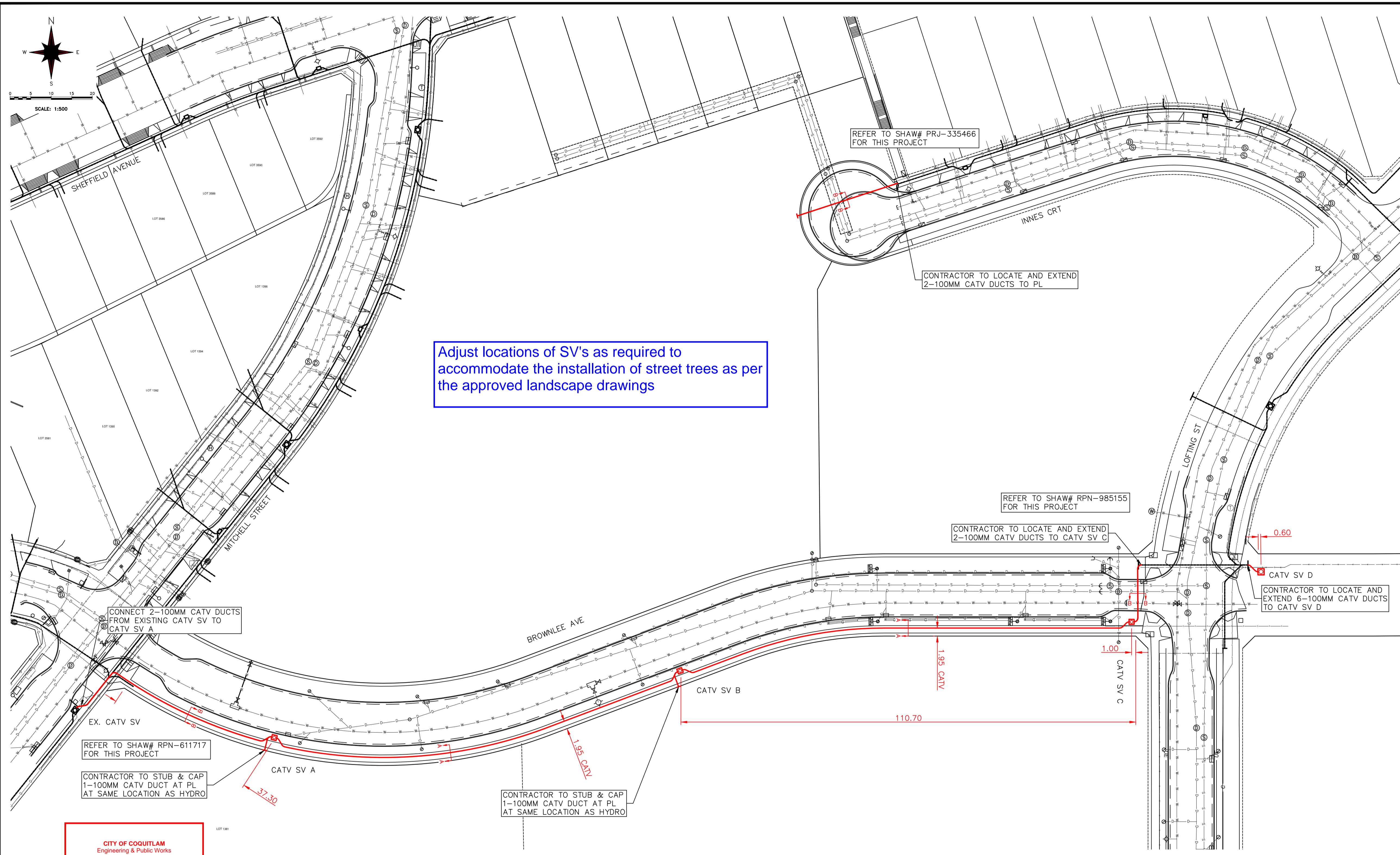
- Shift locations of SV's slightly in the field to accommodate installation of street trees as per the approved landscape drawings.
- City inspector to be contacted prior to any work taking place.

Date: 12/07/2023

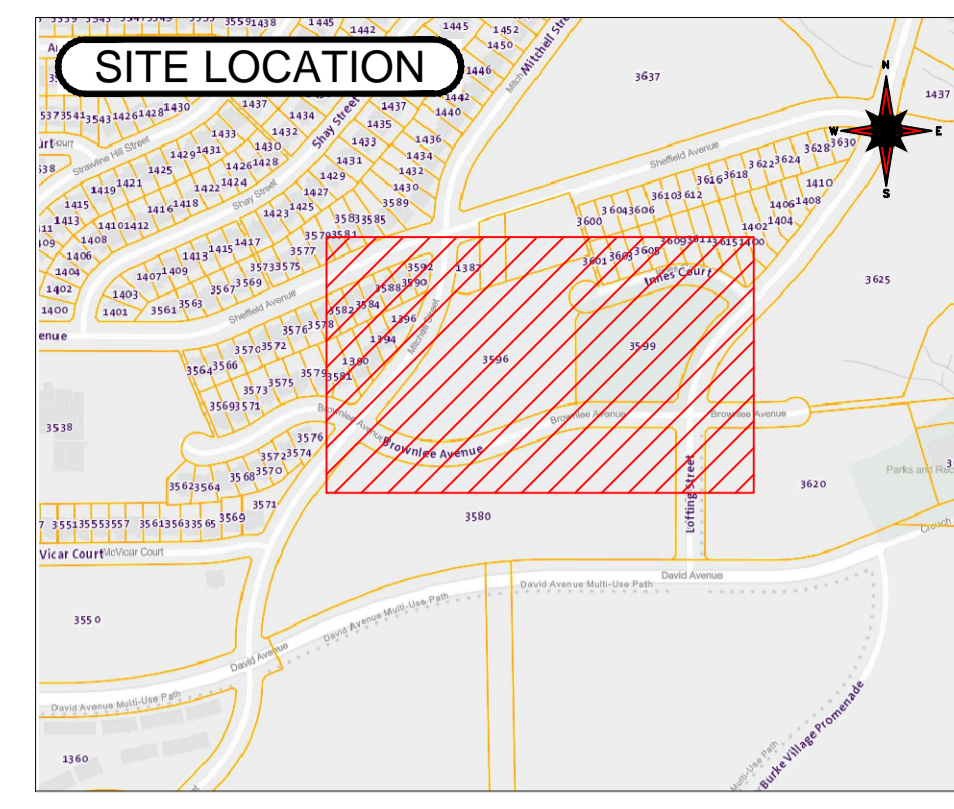
  
 Signature: \_\_\_\_\_  
 (For the General Manager -  
**Engineering & Public Works**)  
 Approved by: Chad Braley

All work must be completed in accordance with all current City adopted standards, specifications, and regulations.  
 Contractor(s) is responsible for field verification of all existing utility locations.  
 Utility Company/Contractor to provide notification letters to all impacted property owners min. (1) one week prior to construction.  
 Utility Company/Contractor must contact the City of Coquitlam Inspector min (2) weeks prior to construction.  
 Ensure QNet Locator is contacted before any construction begins to confirm the location of Surface Inlay Fibre.  
 Utility Company is required to submit an as-built drawing within 30 days of completion of the work to [UtilityPermits@coquitlam.ca](mailto:UtilityPermits@coquitlam.ca)

\*\* Call BC One Call at least two full working days before you dig at 604-257-1940. \*\*



Adjust locations of SV's as required to accommodate the installation of street trees as per the approved landscape drawings



LOCATION PLAN  
SCALE: N.T.S.

**CONSTRUCTION NOTES:**  
 ALL SHAW CATV DUCTS TO RUN IN COMMON TRENCH WITH BC HYDRO AND TELUS DUCTS UNLESS OTHERWISE NOTED.  
 SHAW REQUIRES:  
 A. A PRE-CONSTRUCTION MEETING WITH THE CIVIL CONTRACTOR TO ADDRESS CONSTRUCTION RELATED QUESTIONS  
 B. AN INSPECTION ONCE THE CATV DUCTS ARE PLACED, PRIOR TO BACKFILL PLACING  
 C. A FINAL INSPECTION  
 PLEASE CALL RICK UNDERSHUTE (604) 353-9496 FOR INSPECTIONS.  
 THE CONTRACTOR IS TO REQUEST OFFSITE CATV MATERIALS FROM SHAW A MINIMUM OF TEN (10) BUSINESS DAYS PRIOR TO CONSTRUCTION START. MATERIALS CAN BE COLLECTED FROM ICONIX AND AE CONCRETE WITH PICK NUMBERS PRJ-2188423

**LEGEND**

PROPOSED CATV DUCT	
PROPOSED ONSITE CATV DUCT (TO BE SUPPLIED/INSTALLED BY DEVELOPER)	
EXISTING CATV DUCT	
EXISTING TELUS DUCT	
EXISTING HYDRO DUCT	
EXISTING GAS	
EXISTING WATER	
EXISTING SANITARY SEWER	
EXISTING STORM SEWER	
EXISTING STREET LIGHTING	
EXISTING CURB	
SIDEWALK	
PROPOSED CATV SERVICE VAULT	
PROPOSED CATV SERVICE VAULT	
PROPOSED CATV SERVICE BOX	
PROPOSED CATV PEDESTAL	
EXISTING CATV SERVICE VAULT	
EXISTING CATV SERVICE BOX	
EXISTING CATV PEDESTAL	
TELUS MANHOLE	
TELUS SERVICE VAULT	
TELUS SERVICE BOX	
POWER/TEL POLE	
TRANSFORMER	
JUNCTION BOX	
HYDRO SERVICE BOX	
GAS VALVE	
WATER VALVE	
FIRE HYDRANT	
WATER SV	
CATCH BASIN	
MANHOLE	
LAMP AND POLE	
ORNAMENTAL STREET LIGHT	
SIGN/PARKING METER	

**CITY OF COQUITLAM**  
 Engineering & Public Works  
**NOT APPROVED UNLESS SIGNED**  
 Approval does not confirm the accuracy of the design. The city does not accept responsibility for any costs or damages incurred due to errors, omissions or omissions in the design.  
  
 Chad Braley  
 Manager of Capital Projects & Inspections  
 12/07/2023  
 Date

**JOINT TRENCH WITH BC HYDRO REFER TO DWG# 414-U07-03800**  
**SHAW SERVICE BOXES/VAULTS ARE NOT TO BE PLACED ON SIDEWALKS OR DRIVEWAYS**

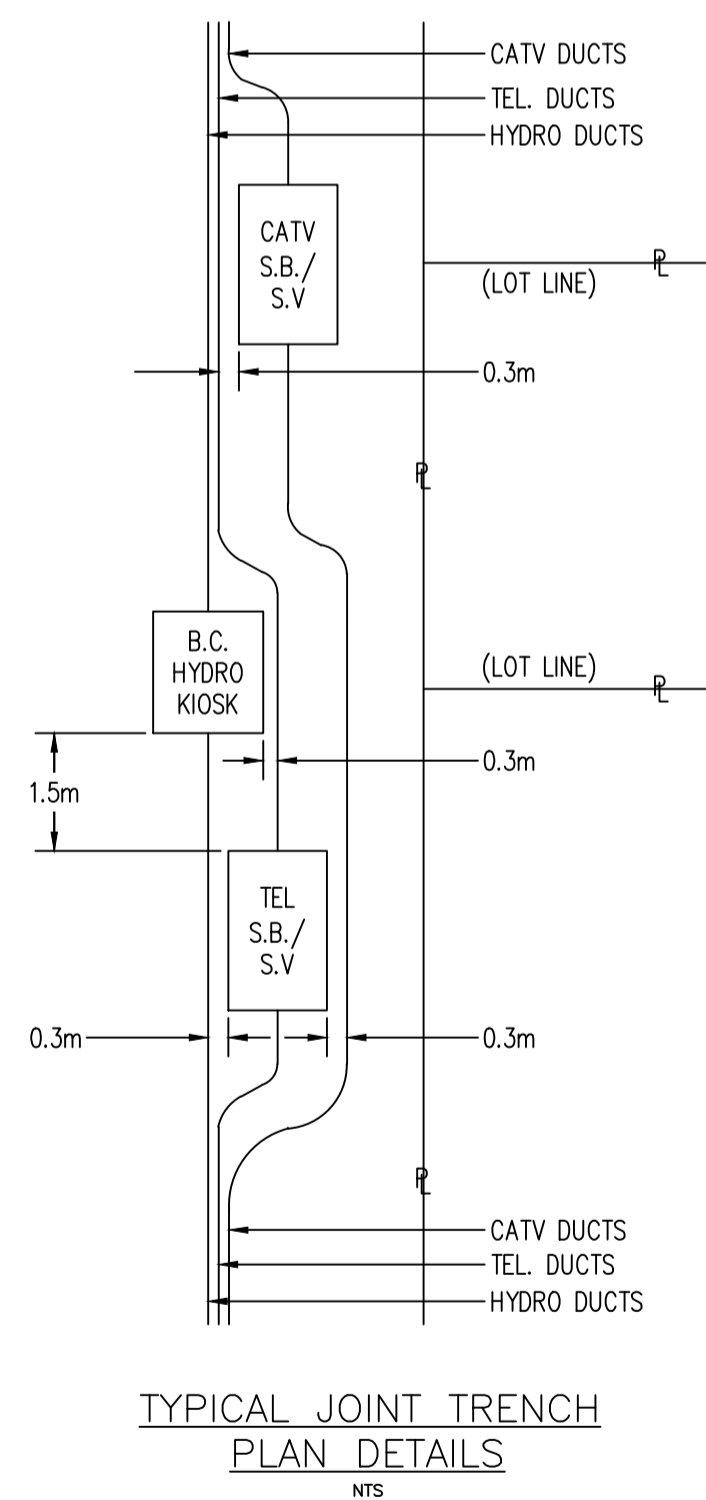
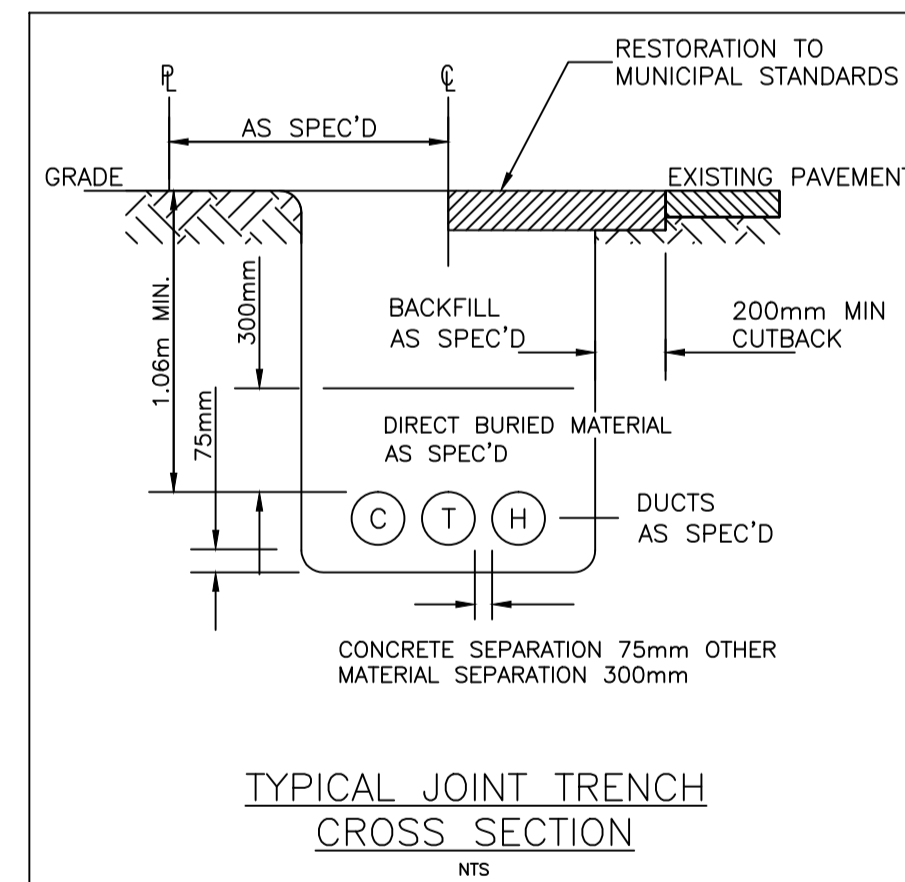
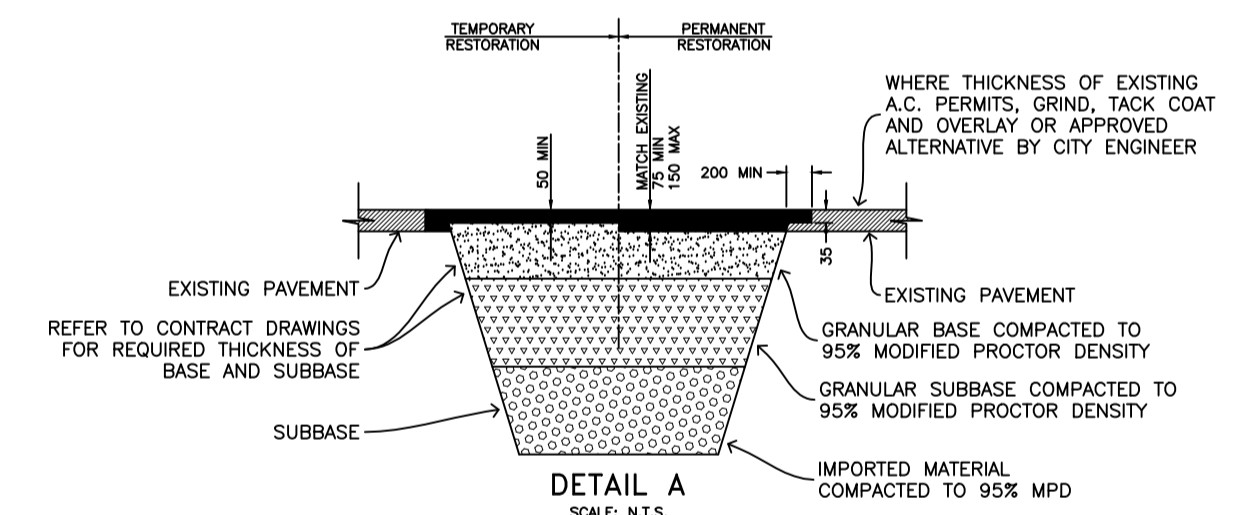
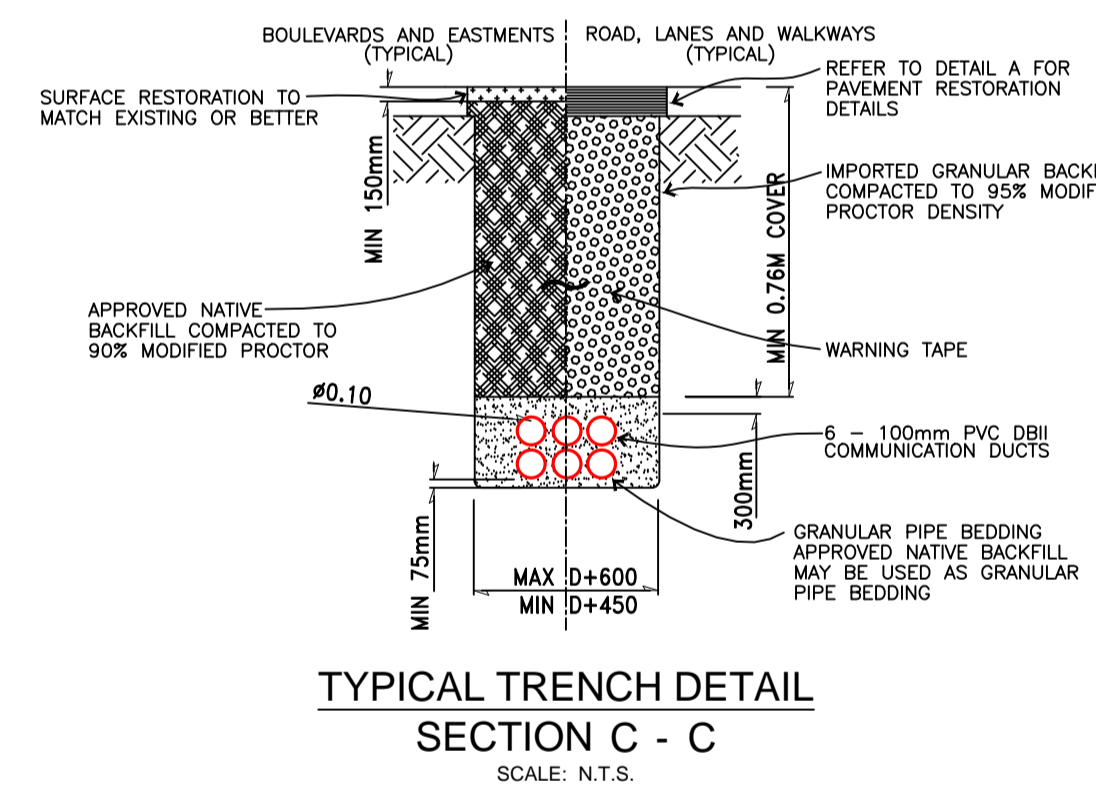
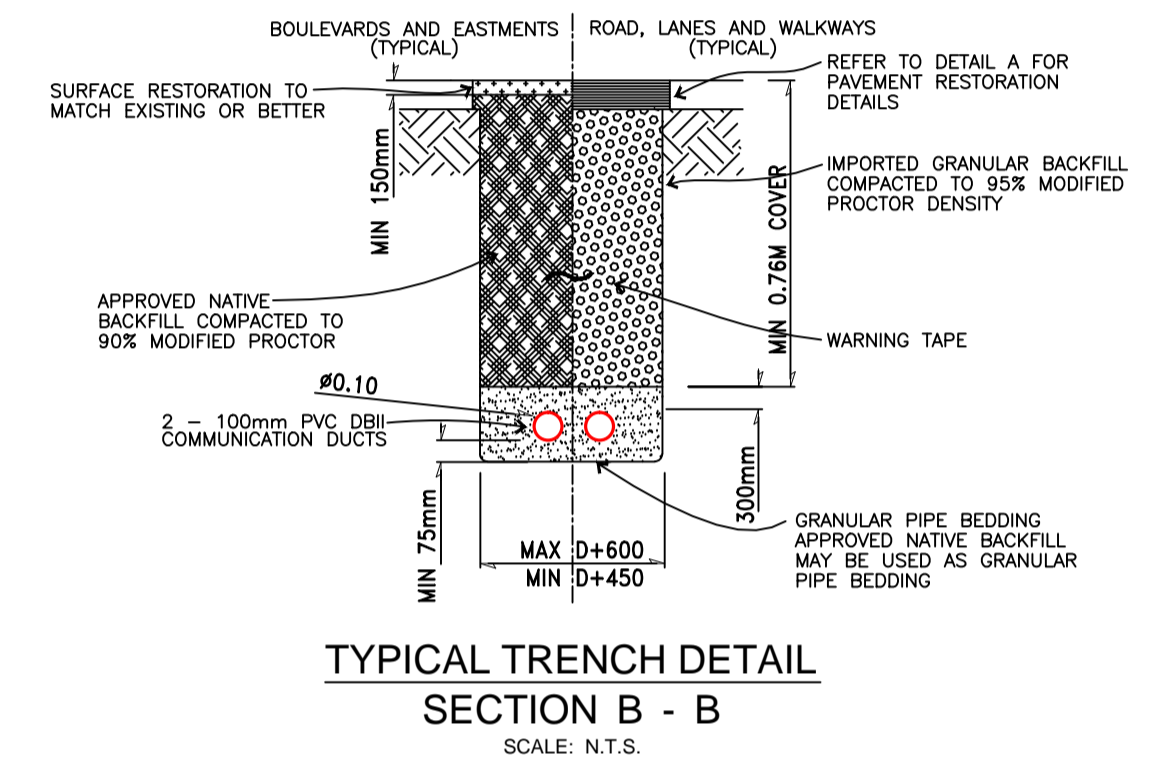
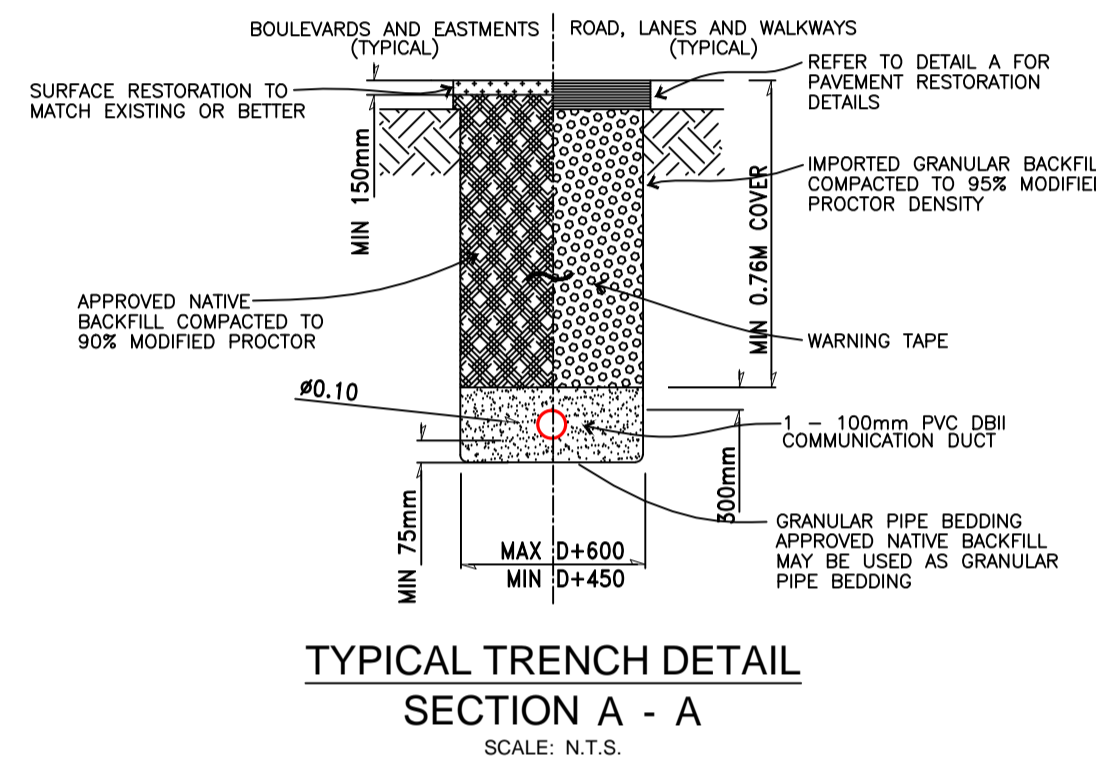
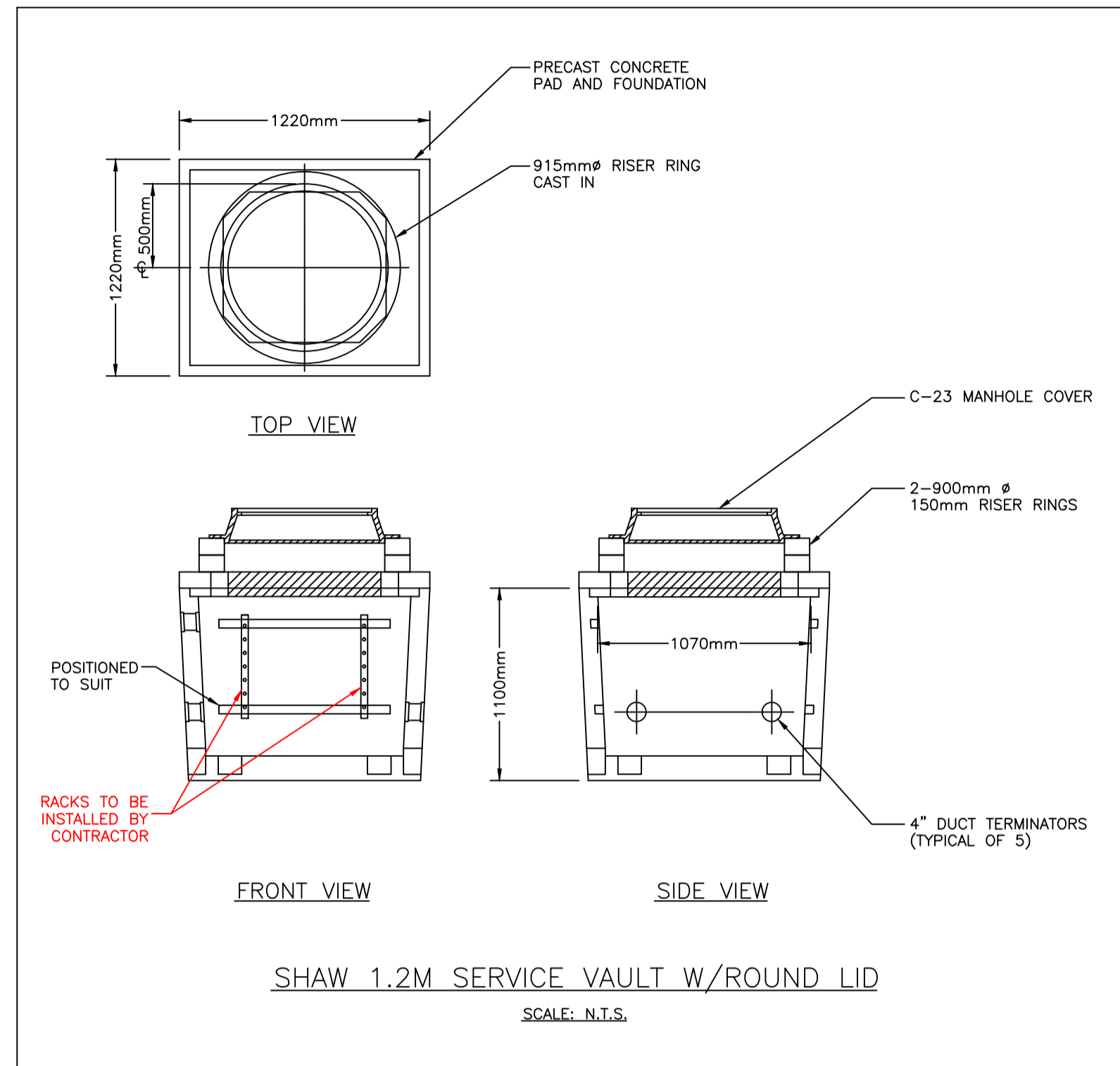
**SHAW DUCT IDENTIFICATION TAGS INSTALLED**

COMPANY	_____
CONTRACTOR	_____
DATE	_____

**SUBMIT FOR CATV PERMIT**

MUNICIPALITY	_____
APPROVED	_____
DATE	_____

BASE PROVIDED BY ISL ENGINEERING LTD. #503 - 4190 LOUGHEED HWY, BURNABY B.C., V3W 3E9 PHONE - 604-629-2696 FAX - 604-629-2698	<b>CONSTRUCTION NOTES</b> 1. MINIMUM CONDUIT COVER 1.0m ALL SECTIONS, EXCEPT WHERE OTHERWISE NOTED. 2. ALL DUCTS TO BE 100mm P.V.C. DB 11 UNLESS OTHERWISE NOTED. 3. ALL MANUFACTURED BENDS TO BE 0.9m RADIUS UNLESS OTHERWISE NOTED. 4. ALL CONCRETE PILASTERS TO BE 200mm ABOVE GRADE UNLESS OTHERWISE NOTED. 5. CONTRACTOR IS TO PROVE THE LOCATIONS OF ALL EXISTING U/G UTILITIES AND SERVICES AFFECTED BY CONSTRUCTION. 6. CONTRACTOR TO CONTACT THE APPROPRIATE FORTISBC RECORDS DEPARTMENT 48 HRS. PRIOR TO STARTING WORK. 7. ALL BACKFILL MATERIAL AND COMPACTION TO BE IN ACCORDANCE WITH THE APPROVING AUTHORITIES' SPECIFICATIONS. 8. ORANGE MARKER TAPE TO BE PLACED IN TRENCH LINE, 300mm ABOVE DUCTS. 9. ALL TRENCHES COMMON TO ALL POWER AND COMMUNICATIONS DUCTS TO BE 300mm OTHER MATERIAL OR 75mm CONCRETE SEPARATION. 10. ALL PROPOSED MANHOLES AND SERVICE VAULTS TO BE INSTALLED A MINIMUM OF 1.0m BELOW THE CROWN OF ADJACENT ROAD. 11. CONTRACTOR MUST CONTACT A TELUS INSPECTOR 48 HRS. PRIOR TO CONNECTING TO TELUS FACILITIES. 12. PLACE 10mm BRAIDED NYLON CORD IN ALL MAINWAY AND SERVICE DUCTS. 13. WHERE FIBREGLASS SERVICE BOXES ARE USED, CONTRACTOR TO USE A SILICON BASED CAULKING TO SEAL DUCT ENTRY INTO BOX. 14. RMI COMMUNICATIONS RICK UNDERSHUTE 604-353-9496 R.UNDERSHUTE@RMI COMMUNICATIONS.CA	<b>CAUTION BURIED CABLES CALL DIG SHAW TO LOCATE!</b>  <b>Dig Shaw Shaw)</b> SHAW TOWER 900-1067 W. CORDOVA ST. VANCOUVER, B.C. V6C 3T5 Call 1-866-DIGSHAW or visit digshaw.ca before you dig.	A 17/06/23 RU ISSUE FOR APPROVAL B 22/06/23 RU REVISED PER CITY COMMENTS	Planner: R. UNDERSHUTE Design/Drafted: L. SAWATZKY Date: 17/06/23 Document: SERVICE BOX AND DUCT INSTALLATION DETAILS	Project: PROPOSED SHAW UNDERGROUND CONDUIT CONSTRUCTION FOR 51 MDU AND 5 DUPLEXES RESIDENTIAL DEVELOPMENT Location: BROWNLEE AVENUE & MITCHELL STREET, COQUITLAM, BC	Scale: AS SHOWN Project No: PRJ-2188423 Drawing No: PER-4238046 Sheet: 1 OF 2 Revision: B
			SUBMIT FOR CATV PERMIT	MUNICIPALITY: _____ APPROVED: _____ DATE: _____		



CITY OF COQUITLAM  
Engineering & Public Works  
**NOT APPROVED UNLESS SIGNED**  
Approval does not confirm the accuracy of the design. The city does not accept responsibility for any costs or damages incurred due to errors, deficiencies or omissions in the design.  
  
Chad Braley  
Manager of Capital Projects & Inspections  
12/07/2023  
Date

BASE PROVIDED BY  
ISL ENGINEERING LTD.  
#503 - 4190 LOUGHEED HWY,  
BURNABY B.C., V3W 3E9  
PHONE - 604-629-2696  
FAX - 604-629-2698

**CONSTRUCTION NOTES**

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- ALL DUCTS TO BE 100mm P.V.C. DB 11 UNLESS OTHERWISE NOTED.
- ALL MANUFACTURED BENDS TO BE 0.9m RADIUS UNLESS OTHERWISE NOTED.
- ALL CONCRETE PLASTERS TO BE 200mm ABOVE GRADE UNLESS OTHERWISE NOTED.
- CONTRACTOR IS TO PROVE THE LOCATIONS OF ALL EXISTING U/G UTILITIES AND SERVICES AFFECTED BY CONSTRUCTION.
- CONTRACTOR TO CONTACT THE APPROPRIATE FORTISBC RECORDS DEPARTMENT 48 HRS. PRIOR TO STARTING WORK.
- ALL BACKFILL MATERIAL AND COMPACTION TO BE IN ACCORDANCE WITH THE APPROVING AUTHORITIES' SPECIFICATIONS.
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- WHERE FIBREGLASS SERVICE BOXES ARE USED, CONTRACTOR TO USE A SILICON BASED CAULKING TO SEAL DUCT ENTRY INTO BOX.
- RMI COMMUNICATIONS  
PHONE 604-353-9496  
EMAIL R.UNDRSHUTE@RMI COMMUNICATIONS.CA

CAUTION BURIED CABLES  
CALL DIG SHAW TO LOCATE

**Dig Shaw**  
Call 1-866-DIGSHAW or visit digshaw.ca before you dig.

**RMI communications**  
**Shaw**  
SHAW TOWER  
900-1067 W. CORDOVA ST.  
VANCOUVER, B.C.  
V6C 3T5

Issue	Date	Initials
A	17/06/23	RU
B	22/06/23	RU

ISSUE FOR APPROVAL

REVISED PER CITY COMMENTS

Planner: R. UNDERSHUTE  
Design/Drafted: L. SAWATZKY  
Date: 17/06/23  
Document: SERVICE BOX AND DUCT INSTALLATION DETAILS

Project: PROPOSED SHAW UNDERGROUND CONDUIT CONSTRUCTION FOR 51 MDU AND 5 DUPLEXES RESIDENTIAL DEVELOPMENT  
Location: BROWNLEE AVENUE & MITCHELL STREET, COQUITLAM, BC

Scale: AS SHOWN  
Project No: PRJ-2188423  
Drawing No: PER-4238046  
Sheet: 1 OF 2  
Revision: B

**PERMIT NO. 22 119692 UP**

<b>APPLICANT</b>	
Name: FORTIS BC	Date of Application: 24/10/2022
Address: 3700 2ND AVENUE BURNABY BC V5C 6S4	
Phone: (250) 488-0349 e	

<b>LOCATION</b>
<b>LOFTING STREET AND BROWNLEE AVENUE</b>

<b>CONTRACTOR</b>	
Name: FORTIS BC	
Address: 3700 2ND AVENUE BURNABY BC V5C 6S4	
Phone: (250) 488-0349 e	

Type	Utility	Drawing #
Utility	Gas	MCO4110415435

**PERMISSION IS GRANTED TO:**

Construct Gas **as per drawing # MCO4110415435 submitted 24/10/2022**  
 Authority / Mandate for issuance of permit: Utility Regulation By-Law No. 707 (1977)  
 Record drawings required: **Yes**  
 For inspection please call: Adam Stockbruegger at 604-365-4081  
 For QNet Locating please contact at: [QNetDuctLocating@coquitlam.ca](mailto:QNetDuctLocating@coquitlam.ca) or 604-927-3626

**Comments:**

- Proposed gasmain may be in conflict with street lighting conduit and JB's. Please see attached City drawing for details and ensure proposed gasmain achieves a minimum 0.3m clearance from streetlighting conduit and JB's.
- Please ensure proposed gasmain achieves a minimum of 1.0m clearance from proposed storm and sanitary manholes in Innes Court.
- Developer is responsible to ensure required tree cutting and environmental permits are in place prior to commencing work.
- Please note, Road Network Project (between Mitchell Street and Lofting Street) is in area and is currently in the design stage. Please contact Chad Braley at 604/927-3513 or cbraley@coquitlam.ca to coordinate the proposed works.
- All restoration to be to City of Coquitlam standards at applicant's cost.

Date: March 29, 2023

Signature:  \_\_\_\_\_

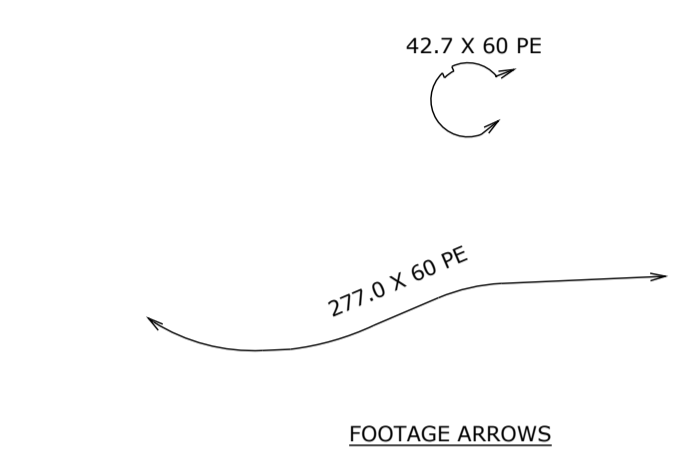
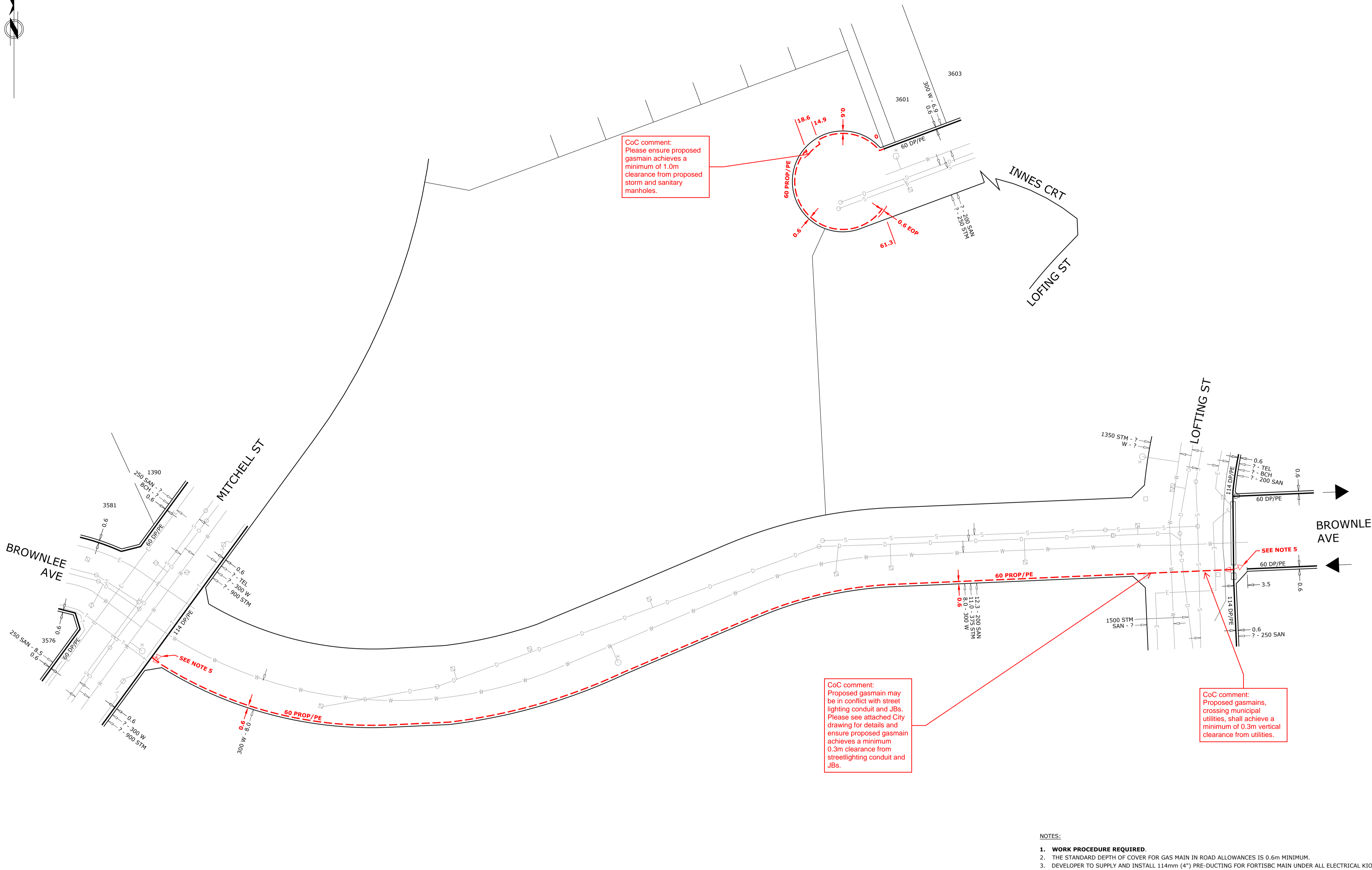
(For the General Manager –  
**Engineering & Public Works**)  
Approved by: Gerald Reyes

**All work must be completed in accordance with all current City adopted standards, specifications, and regulations.**  
 Contractor(s) is responsible for field verification of all existing utility locations.  
 Utility Company/Contractor to provide notification letters to all impacted property owners min. (1) one week prior to construction.  
 Utility Company/Contractor must contact the City of Coquitlam Inspector min (2) weeks prior to construction.  
 Ensure QNet Locator is contacted before any construction begins to confirm the location of Surface Inlay Fibre.  
 Utility Company is required to submit an as-built drawing within 30 days of completion of the work to [UtilityPermits@coquitlam.ca](mailto:UtilityPermits@coquitlam.ca)

**\*\* Call BC One Call at least two full working days before you dig at 604-257-1940. \*\***

**Issue Date: 29/03/2023**

**Expiry Date: 28/03/2024**



**CITY OF COQUITLAM**  
Engineering & Public Works

**NOT APPROVED UNLESS SIGNED**

Approval does not confirm the accuracy of the design. The city does not accept responsibility for any costs or damages incurred due to errors, deficiencies or omissions in the design.

*[Signature]*

On behalf of the Manager of Capital Projects & Inspections

03/29/2023

Date

**TO THE APPROVING OFFICE OF:** CITY OF COQUITLAM  
**AUTHORIZATION NUMBER OR SIGNATURE AND DATE:**

PLATE MAP: 92G.027.094.3

**TIE IN METHOD**  
DEPTH OF MAIN (m) \_\_\_\_\_  
TAP SIZE (mm) \_\_\_\_\_

PRESSURE TEST	PRESSURE (kPag)	DURATION
<input type="checkbox"/> AIR	_____	_____
<input type="checkbox"/> NITROGEN	_____	_____
<input type="checkbox"/> HYDROSTATIC	_____	_____
<input type="checkbox"/> SOAP TEST	_____	_____

**INSPECTIONS**

<input type="checkbox"/> RADIOGRAPHY (X-RAY)	<input type="checkbox"/> TRACER WIRE CONTINUITY
<input type="checkbox"/> NDI OF WELDS	<input type="checkbox"/> MAG ANODE INSTALLED
<input type="checkbox"/> DRESSER	<input type="checkbox"/> BORING TOOL USED
<input type="checkbox"/> INSERT THRU OLD PIPE	<input type="checkbox"/> PROTECTION BOARD
<input type="checkbox"/> STUB MARKER BALL	<input type="checkbox"/> OTHER _____

**CONSTRUCTION REPORT** BROWNLEE AV

I HEREBY CERTIFY THAT THE PIPING WAS INSTALLED IN ACCORDANCE WITH THIS DRAWING (UNLESS OTHERWISE MARKED IN RED PEN) AND IN ACCORDANCE WITH CURRENT STANDARD PRACTICES AND WAS TESTED OF \_\_\_\_\_ kPag FOR \_\_\_\_\_ HOURS AND THAT NO LEAKAGE WAS DETECTED.

DATE \_\_\_\_\_ FOREMAN \_\_\_\_\_  
AREA MANAGER \_\_\_\_\_

**RECORD DRAWING REPORT**

REFER TO RECORD DRAWING NOTE AND SEAL, OR  
 DATE \_\_\_\_\_ APPROVER'S SIGNATURE \_\_\_\_\_  
APPROVER'S NAME \_\_\_\_\_ (PLEASE PRINT)

NON FORTISBC GAS INFRASTRUCTURE ASSUMED ACCURACY LEVEL 4 CSA S250 +/-100mm

SCALE 1:500  
0 10 20 30  
MEASUREMENTS ARE SHOWN IN METRES. NOMINAL PIPE DIAMETER IS SHOWN IN mm.

**PROJECT LOCATION**  
Lofting St. and Brownlee Ave., COQUITLAM

**INSPECTION AND TEST REPORT** INNES CRT

I HEREBY CERTIFY THAT THE PIPING WAS INSTALLED IN ACCORDANCE WITH CURRENT STANDARD PRACTICES AND WAS EXAMINED UNDER AN AIR TEST OF \_\_\_\_\_ kPa FOR \_\_\_\_\_ HOURS AND THAT NO LEAKAGE WAS INDICATED.

DATE \_\_\_\_\_ FOREMAN \_\_\_\_\_ SUPERVISOR \_\_\_\_\_

**LEGEND**

--- PROP. DP GAS MAIN	● MARKER BALL	● WILLIAMSON TEE	--- NON-INSULATED DRESSER	⊗ MAINTAINED/SERVICE VALVE	★ CUSTOMER STATION
--- EXIST. DP GAS MAIN	⊓ CAP	⊓ HALF SADDLE FITTING (HSF)	--- NON-INSULATED ANCHORED DRESSER	⊓ ENCASED VALVE	★ REGULATOR STATION
--- PROP. IP GAS PIPELINE	⊓ REDUCER	⊓ FULL SADDLE FITTING (FSF)	--- STY. 39 & 90 INSULATED DRESSER	⊓ MAINTAINED BALL VALVE	★ GATE STATION
--- EXIST. IP GAS PIPELINE	⊓ TRANSITION FITTING	⊓ WILLIAMSON SHORT STOP FITTING (SSF)	--- ELECTRO STOP	⊓ INSULATED SERVICE VALVE	★ FLOW CTRL. STATION
--- EXIST. TP GAS PIPELINE	⊓ TEST POINT	⊓ WILLIAMSON STOPPLE FITTING (SFG)	--- ANCHORED INSULATED DRESSER	⊓ MAINTAINED INSULATED VALVE	★ VALVE STATION
--- DP SERVICE HEADER	⊓ P.C.T.	⊓ BRANCH SADDLE	--- MAINTAINED WELD END VALVE	⊓ PRE DUCT SLEEVE	★ IP STATION
--- DEAD GAS PIPING	⊓ PROTECT. BOARD			⊓ RECTIFIER	
--- PROP. BONDING CABLE				⊓ MAGNESIUM ANODE	
--- EXIST. BONDING CABLE				⊓ SURFACE ANODE	
				⊓ DEEP ANODE	
				⊓ TELEMETER	
				⊓ PROTECTION BOARD	

FORTISBC DOES NOT WARRANT OR GUARANTEE, NOR ACCEPT ANY RESPONSIBILITY FOR THE LOCATION, ACCURACY OR COMPLETENESS OF THE DESIGNED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THESE DRAWINGS, BUT DOES CERTIFY THAT THE DESIGNED INFORMATION, IF ACCURATE AND COMPLETE, PROVIDES A DESIGNED SYSTEM WHICH SUBSTANTIALLY COMPLIES IN ALL MATERIAL RESPECTS WITH THE CURRENT FORTISBC SPECIFICATIONS INTENT ON THE DATE OF ISSUE. PERSONS UTILIZING THE DRAWING AGREE AND ACCEPT THAT THEIR USE OF ANY INFORMATION CONTAINED THEREIN IS ENTIRELY AT THEIR OWN RISK. FORTISBC WILL NOT ACCEPT RESPONSIBILITY FOR ERROR OR OMISSIONS. YOU ARE REQUIRED TO CALL BC ONE CALL AT 1-800-474-6886 OR VISIT THEIR WEB PAGE www.bc1c.ca TO CREATE A NEW TICKET PRIOR TO COMMENCING ANY WORK.

**BC 1 CALL**  
CALL BEFORE YOU DIG  
1-800-474-6886 OR BY CELLULAR \*6886  
VANCOUVER AREA 257-1940  
www.bc1c.ca

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

**OTHER UTILITIES AND INFRASTRUCTURE NOT OWNED BY FORTISBC ARE SHOWN FOR REFERENCE ONLY. CONTACT BC 1 CALL PRIOR TO CONSTRUCTION. PROVE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.**

REV	DESCRIPTION	DRAWN	CHKD	DESIGNER	DATE	DATE
0		TK	RU	R. PERERA	2022/10/20	

SEAL (IF REQUIRED)

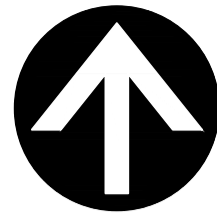
<input checked="" type="checkbox"/> DP MAIN	<input type="checkbox"/> SERVICE HEADER
<input type="checkbox"/> VERTICAL SUBDIVISION	<input type="checkbox"/> IP GAS PIPELINE

DESIGN CONTACT PH # 778-875-6762  
CONSTRUCTION SO # \_\_\_\_\_  
DESIGN SJ # 1070414001  
ECONOMIC TEST # 5550030766  
PARENT SHO # \_\_\_\_\_




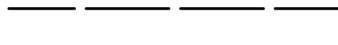









**DISTRIBUTION PIPING DESIGN**  
16705 Fraser Highway | Surrey, BC V4N 0E8 | 1-888-224-2710

**FORTIS BC**

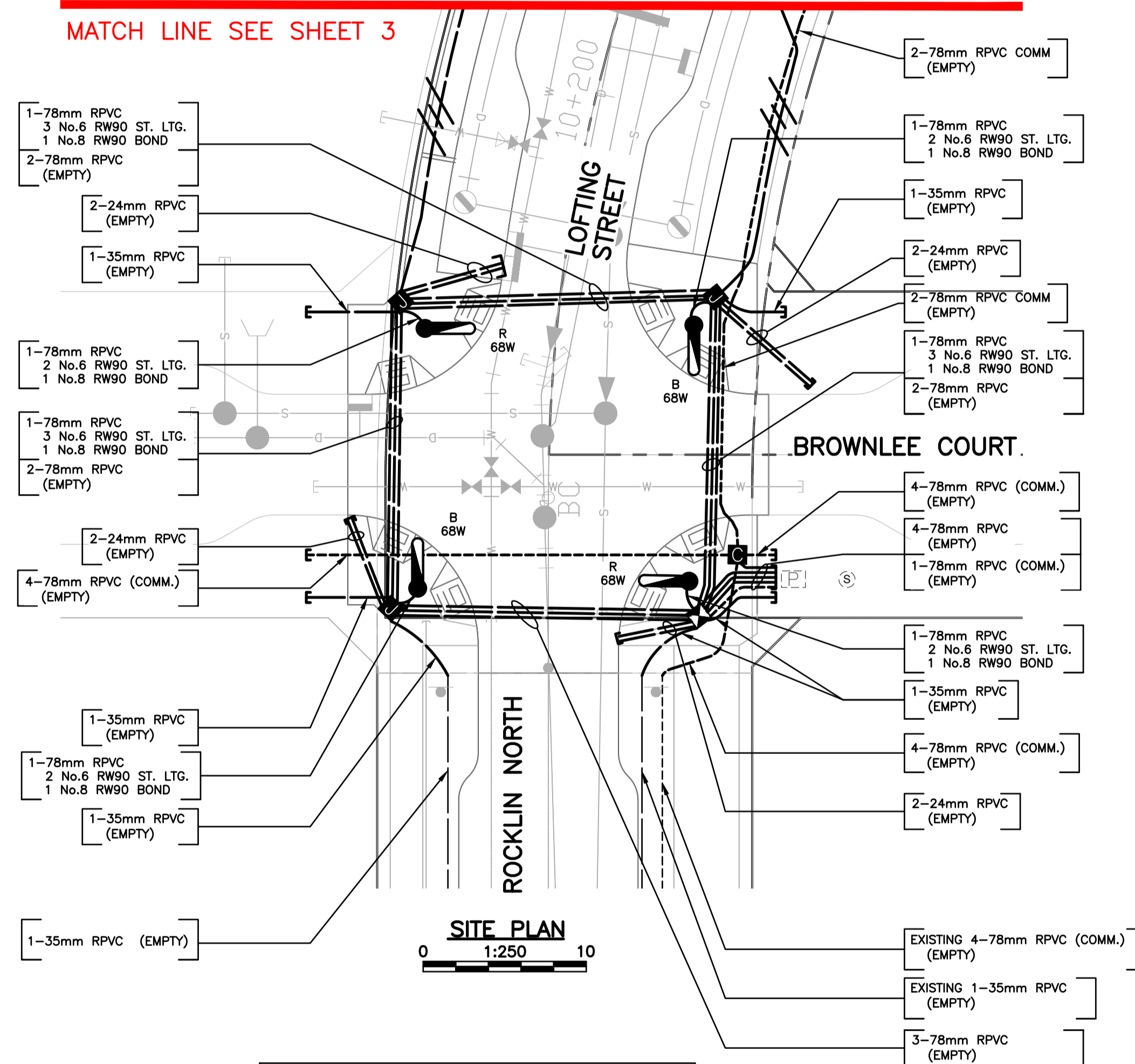
SIZE	DRAWING / SAP / PROJECT NUMBER	SH.	REV.
A1	4110415435	1 OF 1	0



**TRAFFIC SIGNAL LEGEND:**

-  9.14m DAVIT STREETLIGHT POLE ON A TYPE S2 CONCRETE BASE c/w ADAPTOR PLATE
-  3 No. 6 RW90 STRANDED COPPER ST. LTG. & 1 No. 8 RW90 BOND IN 35mm RPVC
-  RPVC CONDUIT c/w CONDUCTORS (SIZE AND QUANTITY NOTED ON PLAN)
-  RPVC CONDUIT c/w CONDUCTORS (SIZE AND QUANTITY NOTED ON PLAN)
-  EMPTY COMM RPVC CONDUIT (SIZE AND QUANTITY NOTED ON PLAN)
-  EMPTY COMM RPVC CONDUIT (SIZE AND QUANTITY NOTED ON PLAN)
-  STUB OUT & CAP FOR FUTURE EXTENSION PROVIDED WITH NYLON PULL CORD
-  STUB OUT & CAP
-  POLYMER JUNCTION BOX (SYNERTECH 11x18x18 OR CIF COMPOSITE EQUIVALENT, OPEN BOTTOM 2 SECTIONS DEEP c/w LID LABELED "ELEC")
-  POLYMER JUNCTION BOX (SYNERTECH 24x36x36 OR CIF COMPOSITE EQUIVALENT, OPEN BOTTOM 2 SECTIONS DEEP c/w LID LABELED "COMM")
-  SMALL CONCRETE VAULT (ARMTEC 4040 c/w BONDED DOUBLE DOOR GALVANIZED STEEL LID LABELED "ELEC")
-  FUTURE TRAFFIC CONTROL CABINET
-  FUTURE SERVICE PEDESTAL

MATCH LINE SEE SHEET 3



**SITE PLAN**  
0 1:250 10

REFER TO DMD PROJECT No. 5975-17-03 FOR STREETLIGHT INFORMATION ON ROCKLIN NORTH

SEE E1434-05 FOR STL. DETAILS

**COQ AS BUILT**  
**E1434-03TS**  
**C2121-03TS**

**IMPORTANT:**  
HYDRO, GAS AND TELEPHONE ARE NOT LOCATED ON THE CITY OF COQUITLAM AS-BUILTS. CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING 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 NO WAY GUARANTEED BY THE CITY.

**RECORD DRAWING**

THE SEAL AND SIGNATURE OF THE UNDERSIGNED ON THIS DRAWING CERTIFIES THAT THE DESIGN INFORMATION CONTAINED IN THESE DRAWINGS ACCURATELY REFLECTS THE ORIGINAL DESIGN AND THE MATERIAL DESIGN CHANGES MADE DURING CONSTRUCTION THAT WERE BROUGHT TO THE UNDERSIGNED'S ATTENTION. THESE DRAWINGS ARE INTENDED TO INCORPORATE ADDENDA, CHANGE ORDERS, AND OTHER MATERIAL DESIGN CHANGES, BUT NOT NECESSARILY ALL SITE INSTRUCTIONS.

THE UNDERSIGNED DOES NOT WARRANT OR GUARANTEE, NOR ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE AS-CONSTRUCTED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THESE DRAWINGS. BY DEEDS, BY SEALING AND SIGNING, CERTIFY THAT THE AS-CONSTRUCTED INFORMATION, IF ACCURATE AND COMPLETE, PROVIDES AN AS-CONSTRUCTED SYSTEM WHICH SUBSTANTIALLY COMPLETES IN ALL MATERIAL RESPECTS WITH THE ORIGINAL DESIGN INTENT.

COQ. ASBUILT NUMBER  
**COQ AS BUILT**  
**E1434-03TS**  
**C2121-03TS**

INTERSECTION ILLUMINANCE DESIGN CRITERIA		
STREET NAMES (S)	BROWNLEE COURT & LOFTING STREET	
PEDESTRIAN ACTIVITY	MEDIUM	
ROAD CLASSIFICATION	COLLECTOR - COLLECTOR	
ILLUMINATION TYPE	9.14m DAVIT POLE -- 68W LED TYPE 3HB DIST.	
LUMINAIRE PRODUCT CODE	NXT-48M-0-7-3HB-4-GY-3-UL-S-2H (68W LED)	
IES FILE	NXT-48M-450mA-3HB-4000K.ies	
LUMINAIRE COLOUR TEMPERATURE	4000K	
DESIGN CRITERIA	DESIGN REQUIREMENTS	DESIGN ACHIEVED
ILLUMINANCE LEVEL (AVG. LUX)	≥ 18.0	29.45
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	≤ 4.0	2.47

**PRIMARY**  
BURNABY OFFICE  
209 - 8327 Eastlake Drive  
Burnaby, BC V5A 4W2  
604.558.0401  
burnaby@primarysty.com  
192504

BC ONE CALL  
CALL BEFORE YOU DIG  
1-800-474-8886 OR BY  
CELLULAR \*6886  
VANCOUVER AREA  
257-1940

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



REVISIONS		
R7	ISSUED FOR RECORD	2022/03/02
R6	SHEFFIELD AND ROAD A LIGHTS UPDATED, RE-IFC	2020/10/15
R5	ISSUED FOR CONSTRUCTION	2020/05/28
R4	ISSUED FOR REVIEW	2020/04/23
R3	ISSUED FOR REVIEW	2020/02/14
R2	ISSUED FOR REVIEW	2019/11/07
R1	ISSUED FOR REVIEW	2019/11/04
REV.	DESCRIPTION:	

CLIENT  
**CITY OF COQUITLAM**

PROJECT  
SMILING CREEK NEIGHBORHOOD - PARCEL 16A  
STREET LIGHTING

SCALE	
AS SHOWN	
DESIGN BY SB	DRAWN BY YH
PLOT DATE 2022-03-03	PLOT TIME 12:29:21

DRAWING TITLE	
TRAFFIC SIGNAL SITE PLAN SHEET 4	
DRAWING NUMBER SL-02504	REVISION 7