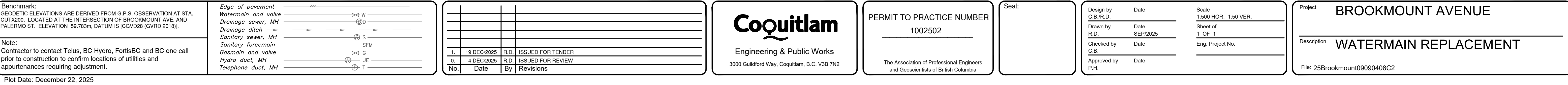
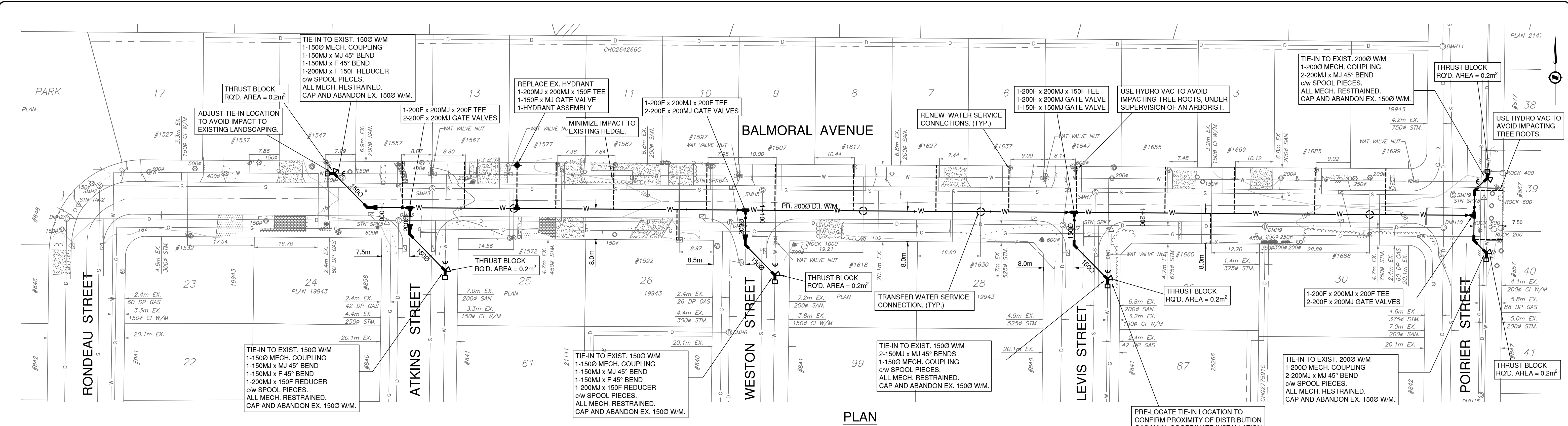




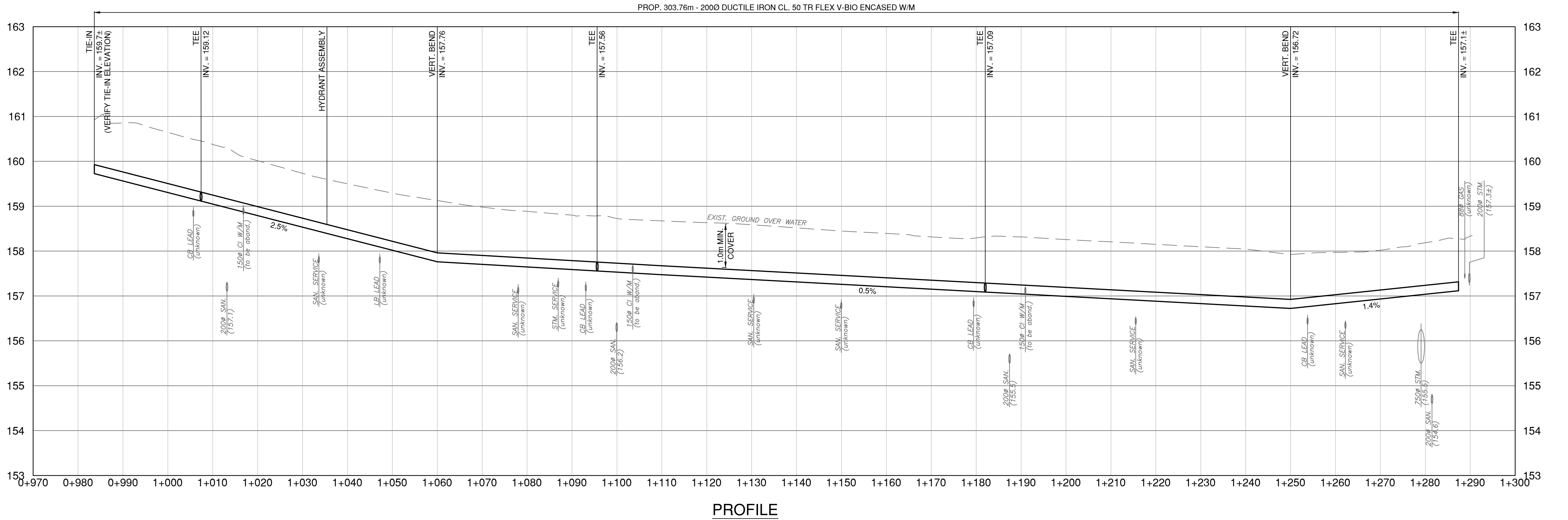
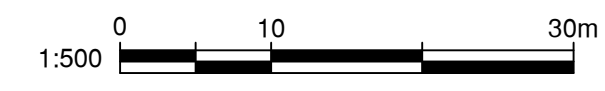
PLAN





- NOTES:
- WATER MAINS SHALL BE DUCTILE IRON CLASS 50 TR FLEX CEMENT LINED TO AWWA C104.
V-BIO ENCASE ALL WATER MAINS, VALVES, FITTINGS AND HYDRANT ASSEMBLY (INCLUDING LATERALS, VALVE AND STAND PIPE). INSTALLATION FOLLOWS METHOD A (POLYETHYLENE TUBES) UNDER AWWA C105/A21.5.
BEDDING OF WATERMAIN SHALL BE NO. 3 COURSE SAND COMPACTED 95% M.P.D.
 - CONTRACTOR TO CAP THE ENDS OF THE PIPE WITH PLASTIC WRAP OR SOME TYPE OF MATERIAL WHEN BEING STORED ON SITE.
 - ALL FITTINGS ARE TO BE MECHANICALLY RESTRAINED.
 - WATER SERVICES TO BE INSTALLED IN ACCORDANCE TO COQ-W21 WITH MUNICIPEX INSTEAD OF COPPER WITH #10 AWG TRACER ON EACH SERVICES.
 - ALL NEW CONNECTIONS SHALL HAVE DOUBLE STRAP SADDLES AT THE MAIN. SHALL HAVE BRASS CURB STOPS - MULLER A631 OR EQUIVALENT AND INSTALLED AS PER COQ. STD DWG. COQ-W21 c/w METER SETTER AS PER COQ. STD. DWG. COQ-W2m.
 - CONCRETE THRUST BLOCKS SHALL BE INSTALLED AS PER MMCD 2009 ED. DWG W1.
 - ALL TESTING AND CHLORINATION OF WATERLINES COMPLETED BY THE GENERAL CONTRACTOR AND WITNESSED BY THE CITY OF COQUITLAM.
 - FIRE HYDRANTS AS PER MMCD 2009 ED. DWG. W4.
 - EXISTING UTILITY SERVICE CONNECTIONS ARE NOT SHOWN FOR CLARITY.
 - VERTICAL BENDS WILL BE CONSTRUCTED WITH DEFLECTED JOINTS (NO FITTINGS).
 - PRESSURE AND LEAK TESTING NOT ALLOWED AGAINST LIVE VALVES.
 - CLOSE ALL ABANDONED VALVES AND REMOVE RISERS AND VALVE BOXES.
 - ALL RESTORATION OF BOULEVARD GRASS TO BE DONE WITH SOD UNLESS OTHERWISE APPROVED BY CONTRACT ADMINISTRATOR.
 - WHERE HORIZONTAL SEPARATION BETWEEN WATER MAIN AND EITHER A SANITARY OR A STORM SEWER IS LESS THAN 3 METERS, WRAP ALL WATER MAIN JOINTS WITH HEAT SHRINK PLASTIC, OR PACKED WITH COMPOUND AND WRAPPED WITH PETROLIUM TAPE IN ACCORDANCE WITH THE LATEST VERSION OF AWWA STANDARD C217, AND C214 OR C209.
 - COORDINATE ALL TIE-INS AND SHUT-DOWNS WITH CONTRACT ADMINISTRATOR.

OPERATING PRESSURE: 84psi
TEST PRESSURE: 200psi



Benchmark:
GEODEIC ELEVATIONS ARE DERIVED FROM G.P.S. OBSERVATION AT STN SPK1 LOCATED AT #822 RONDEAU STREET, ELEVATION=163.696m, DATUM IS [CGVD28 (GVRD 2016)].

Note:
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: January 9, 2026

Edge of pavement
Watermain and valve
Drainage sewer, MH
Sanitary sewer, MH
Sanitary forcemain
Gasmain and valve
Hydro duct, MH
Telephone duct, MH

— W
— D
— S
— SFM
— G
— UE
— T

No.	Date	By	Revisions
1.	4 NOV/2025	RD	ISSUED FOR REVIEW

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

PERMIT TO PRACTICE NUMBER
1002502

The Association of Professional Engineers and Geoscientists of British Columbia

Seal:

Design by	Date
Drawn by R.D.	OCT/2025
Checked by C.B.	
Approved by	

Scale
1:500 HOR. 1:50 VER.
Sheet of 1 OF 1
Eng. Project No. 89010

Project
BALMORAL AVENUE
ATKINS STREET TO POIRIER STREET

Description
WATER MAIN REPLACEMENT

File: 25Balmoral09241458C1