

IT SHALL BE UNDERSTOOD THAT WSA ENGINEERING (2012) LTD. WILL PROVIDE DIGITAL DRAWING INFORMATION AS A COURTESY SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

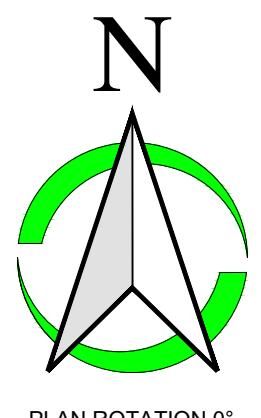
THE DIGITAL INFORMATION CONTAINED IN THE FILES IS "PROPRIETARY" IN NATURE AND MAY ONLY BE UTILIZED BY THE RECIPIENT FOR THE CURRENT PROJECT. ALL INFORMATION CONTAINED IN THE DIGITAL FILES MAY NOT BE REPRODUCED, SOLD, DISTRIBUTED OR UTILIZED IN ANY FORM ON OTHER PROJECTS, OR BY ANYONE ELSE, WITHOUT THE EXPRESS WRITTEN PERMISSION OF WSA ENGINEERING (2012) LTD.

DUE TO THE UNPREDICTABLE NATURE OF THE ELECTRONIC DATA TRANSFER AND THE INABILITY OF THE ORIGINATOR TO ESTABLISH CONTROL OVER THE TRAFFIC, WSA ENGINEERING (2012) LTD. ASSUMES NO RESPONSIBILITY FOR ANY CONSEQUENCES ARISING OUT OF THE USE OF THIS DATA. IT IS THE SOLE RESPONSIBILITY OF THE USER TO CHECK THE VALIDITY OF ALL INFORMATION CONTAINED HEREIN. THE USER SHALL AT ALL TIMES REFER TO RELEVANT HARD COPY DRAWINGS AS ISSUED BY THIS OFFICE. THE USER SHALL ASSUME ALL RISKS AND LIABILITIES RESULTING FROM THE USE OF THIS DATA.

## CIVIL DESIGN DRAWING INDEX

SHEET:

C1 - LOCATION PLAN AND DRAWING INDEX  
C2 - WATER SERVICING WEST  
C3 - WATER SERVICING CENTER  
C4 - WATER SERVICING EAST  
C5 - DETAILS



DRAWING COORDINATE SYSTEM  
UNIVERSAL TRANSVERSE MERCATOR ZONE 11N  
NORTH AMERICAN DATUM 1983

CERTIFICATION OF THE CONTENTS OF THIS DRAWING AND APPROVAL OF THE INCORPORATED DESIGN BY A PROFESSIONAL SIGNING AUTHORITY ARE PROVIDED BY ATTACHMENT OF THE APPROPRIATE SEAL AND DATED SIGNATURE. DRAWINGS WITHOUT THIS CERTIFICATION ARE NOT TO BE USED FOR PERMITTING APPLICATION, APPROVALS OR CONSTRUCTION PURPOSES.

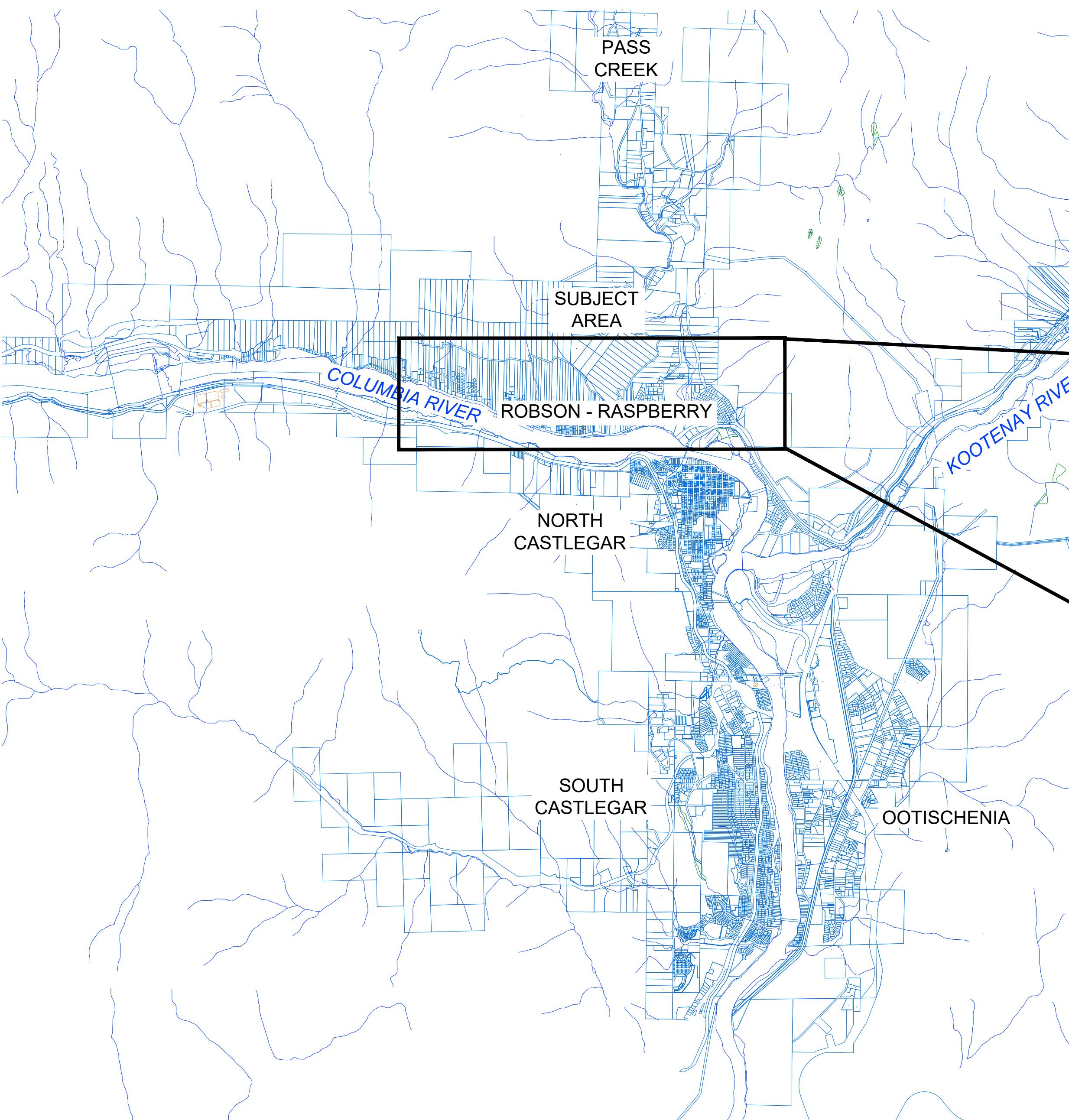
C	17/10/2025	GH	ISSUED FOR TENDER	GH
B	29/09/2025	GH	FOR CONSTRUCTION PERMIT	GH
A	12/09/2025	PN	FOR CLIENT REVIEW	GH
No.	DD/MM/YYYY	BY	ISSUE	ENG.

No. DD/MM/YYYY BY REVISIONS FOR ISSUE ENG.

**WSA** ENGINEERING (2012) LTD.  
Civil • Structural • Building Design  
2248 Columbia Ave, Castlegar, B.C. V1N 2X1 Ph: (888) 617-6927  
BC Permit to Practice No. 1003247

## ROBSON-RASPBERRY IMPROVEMENT DISTRICT

0 1:20,000 800

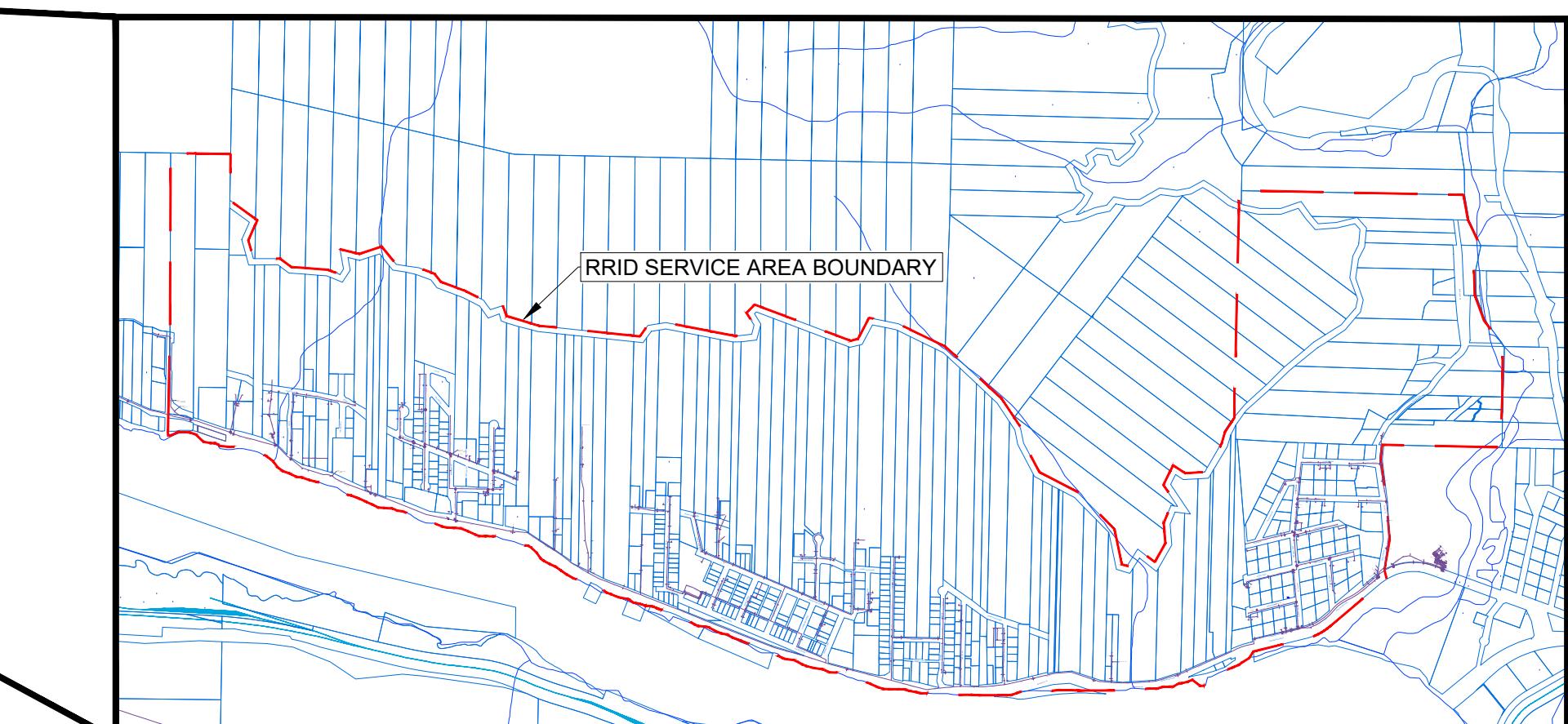


CITY OF CASTLEGAR AND AREA

0 1:50,000 2000

# RRID WATER METER INSTALLATION

## ROBSON-RASPBERRY IMPROVEMENT DISTRICT



**ISSUED FOR TENDER**

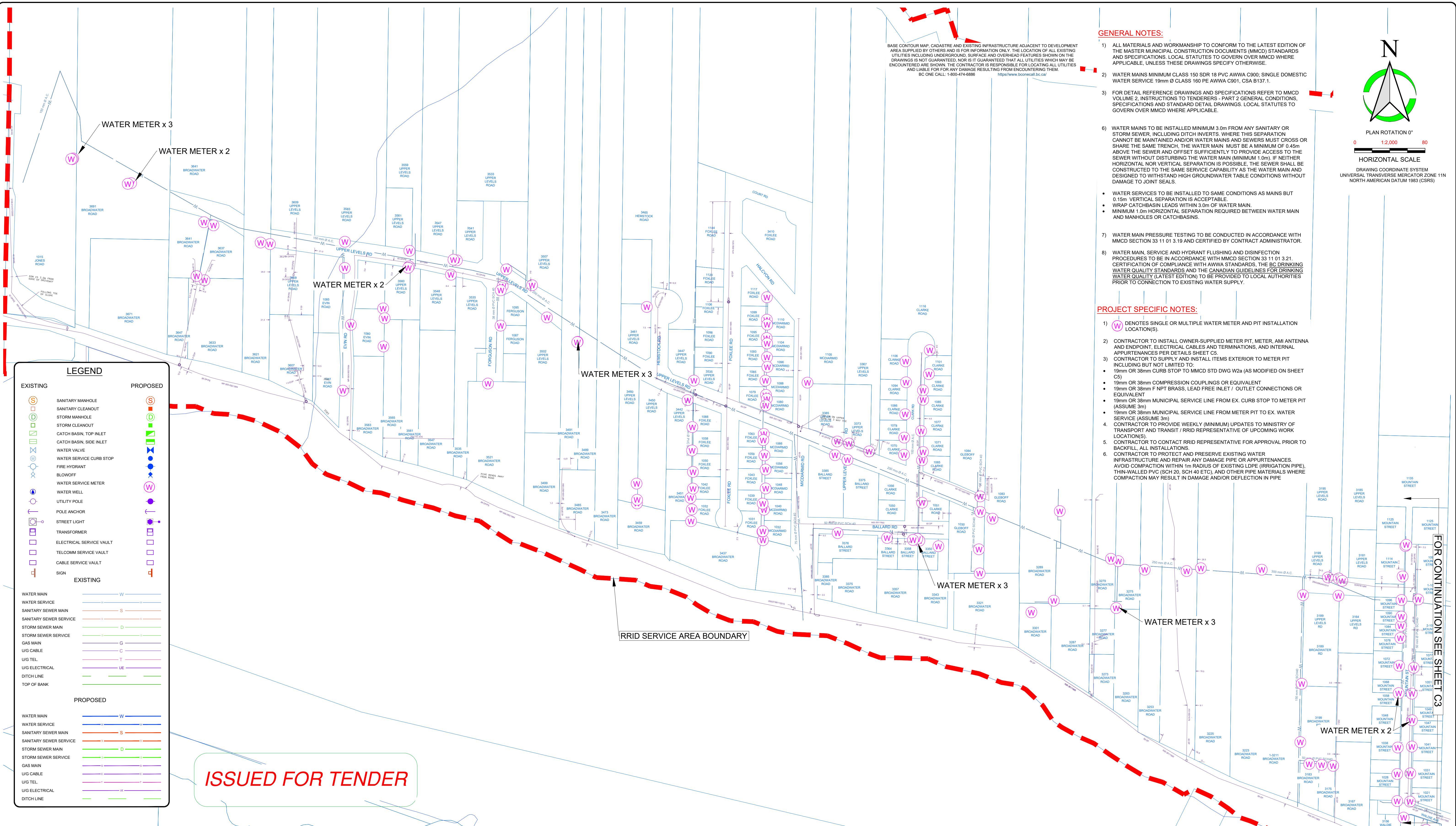
## RRID WATER METER INSTALLATION

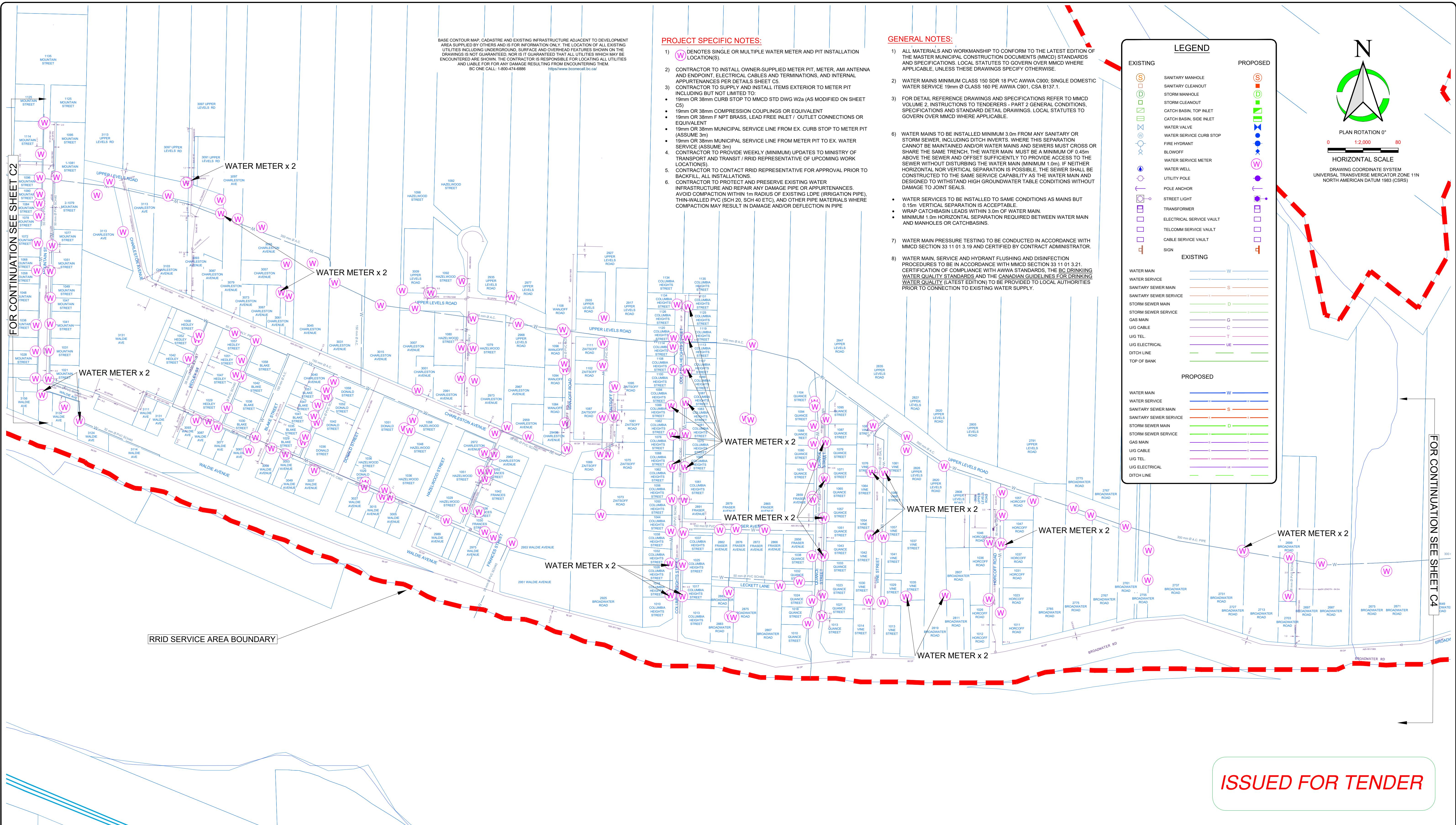
ROBSON-RASPBERRY IMPROVEMENT DISTRICT

### LOCATION PLAN AND DRAWING INDEX

DRAWN BY PN	DATE 22/07/2025
CHECKED BY GH	DATE 12/09/2025
APPROVED BY GH	DATE 12/09/2025

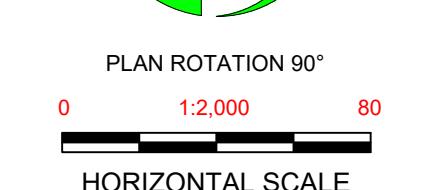
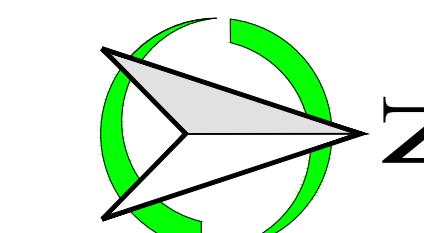
HOR. SCALE PROJECT FILE No.	AS NOTED	VERT. SCALE
C25248-003		
Sheet C1	# IN SET	5
Issue C	REV.	-





FOR CONTINUATION SEE SHEET C3

BASE CONTOUR MAP, CADASTRE, AND EXISTING INFRASTRUCTURE ADJACENT TO DEVELOPMENT AREA SUPPLIED BY OTHERS AND IS FOR INFORMATION ONLY. THE LOCATION OF ALL EXISTING UTILITIES INCLUDING UNDERGROUND, SURFACE AND OVERHEAD FEATURES SHOWN ON THE DRAWINGS IS NOT GUARANTEED, NOR IS IT GUARANTEED THAT ALL UTILITIES WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION ARE RECORDED. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITIES AND LIABLE FOR ANY DAMAGE RESULTING FROM ENCOUNTERING THEM.  
BC ONE CALL: 1-800-474-6886  
<https://www.bconeall.bc.ca/>



0 1:2,000 80  
HORIZONTAL SCALE

DRAWING COORDINATE SYSTEM  
UNIVERSAL TRANSVERSE MERCATOR ZONE 11N  
NORTH AMERICAN DATUM 1983 (CSRS)

GENERAL NOTES:

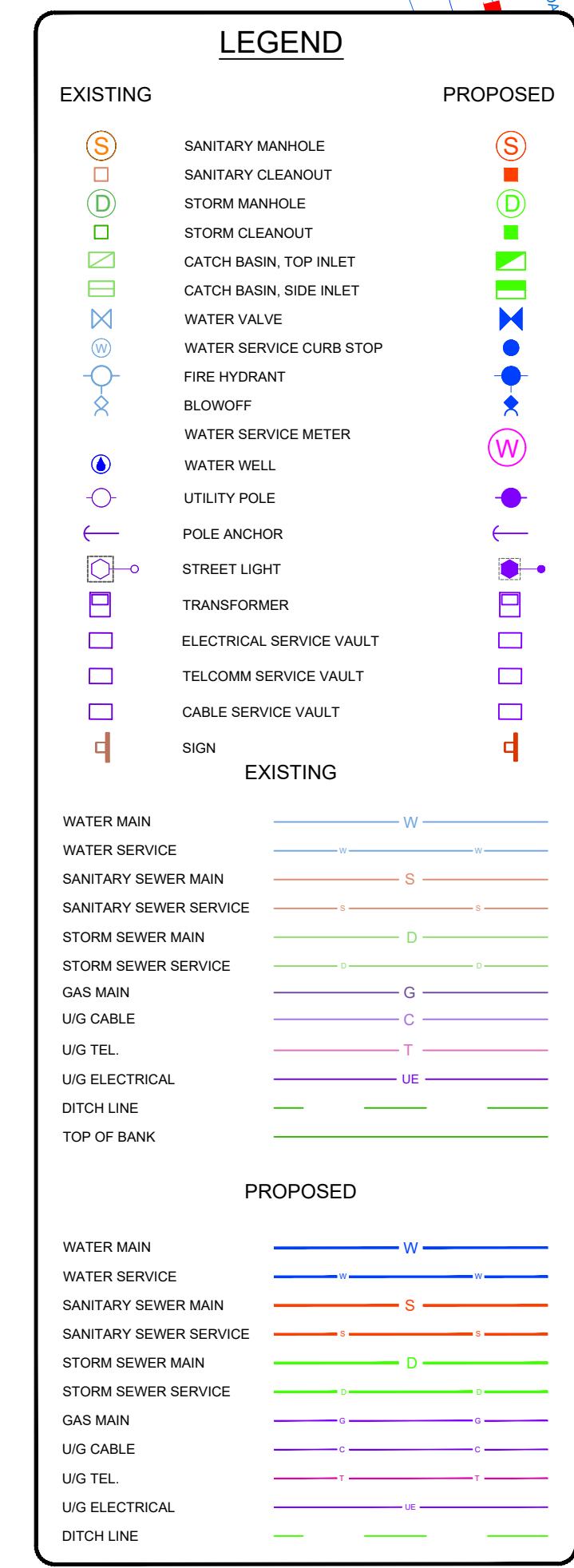
- 1) ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) STANDARDS AND SPECIFICATIONS, LOCAL STATUTES TO GOVERN OVER MMCD WHERE APPLICABLE, UNLESS THESE DRAWINGS SPECIFY OTHERWISE.
- 2) WATER MAINS MINIMUM CLASS 150 SDR 18 PVC AWWA C900; SINGLE DOMESTIC WATER SERVICE 19mm Ø CLASS 160 PE AWWA C901, CSA B137.1.
- 3) FOR DETAIL REFERENCE DRAWINGS AND SPECIFICATIONS REFER TO MMCD VOLUME 2, INSTRUCTIONS TO TENDERERS - PART 2 GENERAL CONDITIONS, SPECIFICATIONS AND STANDARD DETAIL DRAWINGS. LOCAL STATUTES TO GOVERN OVER MMCD WHERE APPLICABLE.
- 4) WATER MAINS TO BE INSTALLED MINIMUM 0.45m FROM ANY SANITARY OR STORM SEWER, INCLUDING DITCH INVERTS, WHERE THIS SEPARATION CANNOT BE MAINTAINED AND/OR WATER MAINS AND SEWERS MUST CROSS OR SHARE THE SAME TRENCH, THE WATER MAIN MUST BE A MINIMUM OF 0.45m ABOVE THE SEWER AND OFFSET SUFFICIENTLY TO PROVIDE ACCESS TO THE SEWER WITHOUT DISTURBING THE WATER MAIN (MINIMUM 1.0m). IF NEITHER HORIZONTAL NOR VERTICAL SEPARATION IS POSSIBLE, THE SEWER SHALL BE CONSTRUCTED TO THE SAME SERVICE CAPABILITY AS THE WATER MAIN AND DESIGNED TO WITHSTAND HIGH GROUNDWATER TABLE CONDITIONS WITHOUT DAMAGE TO JOIN SEALS.
- 5) WATER SERVICES TO BE INSTALLED TO SAME CONDITIONS AS MAINS BUT 0.15m VERTICAL SEPARATION IS ACCEPTABLE.
- 6) WRAP CATCHBASIN LEADS WITHIN 3.0m OF WATER MAIN.
- 7) MINIMUM 1.0m HORIZONTAL SEPARATION REQUIRED BETWEEN WATER MAIN AND MANHOLES OR CATCHBASINS.
- 8) WATER MAIN PRESSURE TESTING TO BE CONDUCTED IN ACCORDANCE WITH MMCD SECTION 33 11 01 3.1.9 AND CERTIFIED BY CONTRACT ADMINISTRATOR.

WATER MAIN, SERVICE AND HYDRANT FLUSHING AND DISINFECTION PROCEDURES TO BE IN ACCORDANCE WITH MMCD SECTION 33 11 01 3.21. CERTIFICATION OF COMPLIANCE WITH AWWA STANDARDS, THE BC DRINKING WATER QUALITY STANDARDS AND THE CANADIAN GUIDELINES FOR DRINKING WATER QUALITY (LATEST EDITION) TO BE PROVIDED TO LOCAL AUTHORITIES PRIOR TO CONNECTION TO EXISTING WATER SUPPLY.

PROJECT SPECIFIC NOTES:

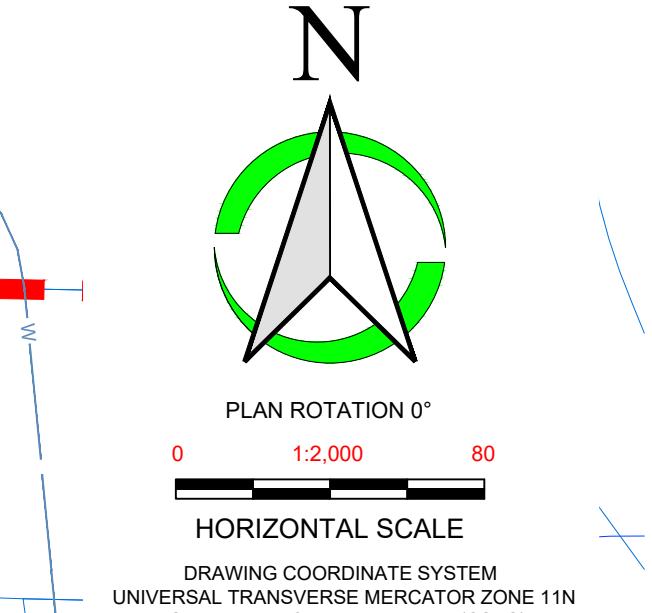
- 1) (W) DENOTES SINGLE OR MULTIPLE WATER METER AND PIT INSTALLATION LOCATION(S).
- 2) CONTRACTOR TO INSTALL OWNER-SUPPLIED METER PIT, METER, AMI ANTENNA AND ENDPOINT, ELECTRICAL CABLES AND TERMINATIONS, AND INTERNAL APPURTENANCES PER DETAILS SHEET C5.
- 3) CONTRACTOR TO SUPPLY AND INSTALL ITEMS EXTERIOR TO METER PIT INCLUDING BUT NOT LIMITED TO:
  - 19mm OR 38mm CURB STOP TO MMCD STD DWG W2a (AS MODIFIED ON SHEET C5)
  - 19mm OR 38mm COMPRESSION COUPLINGS OR EQUIVALENT
  - 19mm OR 38mm F NPT BRASS, LEAD FREE INLET / OUTLET CONNECTIONS OR EQUIVALENT
  - 19mm OR 38mm MUNICIPAL SERVICE LINE FROM EX. CURB STOP TO METER PIT (ASSUME 3m)
  - 19mm OR 38mm MUNICIPAL SERVICE LINE FROM METER PIT TO EX. WATER SERVICE (ASSUME 3m)
- 4) CONTRACTOR TO PROVIDE WEEKLY (MINIMUM) UPDATES TO MINISTRY OF TRANSPORT AND TRANSIT / RRID REPRESENTATIVE OF UPCOMING WORK LOCATION(S).
- 5) CONTRACTOR TO CONTACT RRID REPRESENTATIVE FOR APPROVAL PRIOR TO BACKFILL ALL INSTALLATIONS.
- 6) CONTRACTOR TO PROTECT AND PRESERVE EXISTING WATER INFRASTRUCTURE AND REPAIR ANY DAMAGE PIPE OR APPURTENANCES. AVOID COMPACTION WITHIN 1m RADIUS OF EXISTING LDPE (IRRIGATION PIPE), THIN-WALLED PVC (SCH 20, SCH 40 ETC) AND OTHER PIPE MATERIALS WHERE COMPACTION MAY RESULT IN DAMAGE AND/OR DEFLECTION IN PIPE

**ISSUED FOR TENDER**



CONTINUATION THIS SHEET

CONTINUATION THIS SHEET



0 1:2,000 80  
HORIZONTAL SCALE

DRAWING COORDINATE SYSTEM  
UNIVERSAL TRANSVERSE MERCATOR ZONE 11N  
NORTH AMERICAN DATUM 1983 (CSRS)

RRID WATER METER INSTALLATION

ROBSON-RASPBERRY IMPROVEMENT DISTRICT

WATER SERVICING EAST

HOR. SCALE 1:2000 VERT. SCALE

PROJECT FILE No. C25248-003

SHEET C4 # IN SET 5

ISSUE C REV. -



ENGINEERING (2012) LTD.  
Civil • Structural • Building Design  
2248 Columbia Ave. Castlegar, B.C. V1N 2X1 Ph: (888) 617-6927

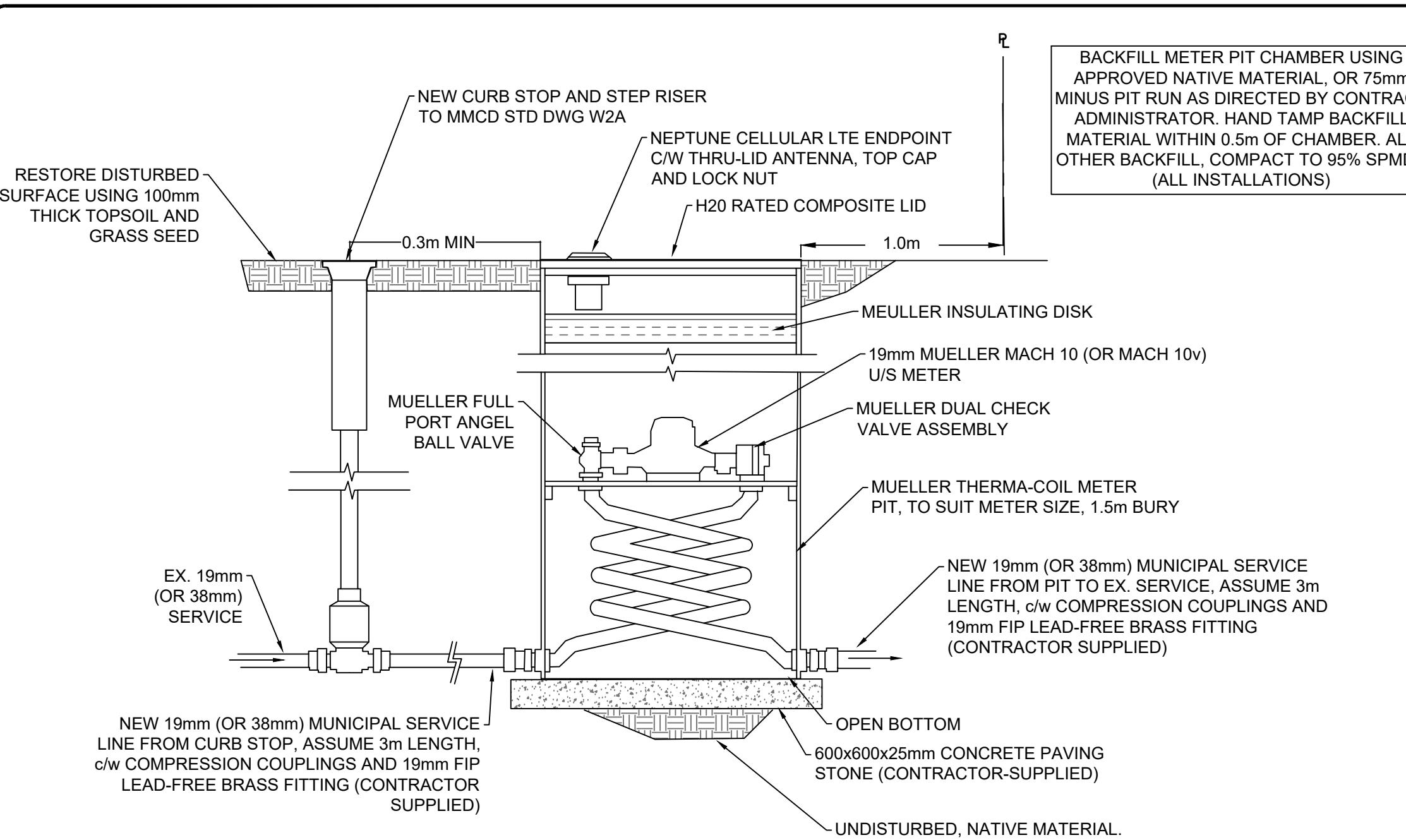
BC Permit to Practice No. 1003247

CERTIFICATION OF THE CONTENTS OF THIS DRAWING AND APPROVAL OF THE INCORPORATED DESIGN BY A PROFESSIONAL SIGNING AUTHORITY ARE PROVIDED BY ATTACHMENT OF THE APPROPRIATE SEAL AND DATED SIGNATURE. DRAWINGS WITHOUT THIS CERTIFICATION ARE NOT TO BE USED FOR PERMITTING APPLICATION, APPROVALS OR CONSTRUCTION PURPOSES.

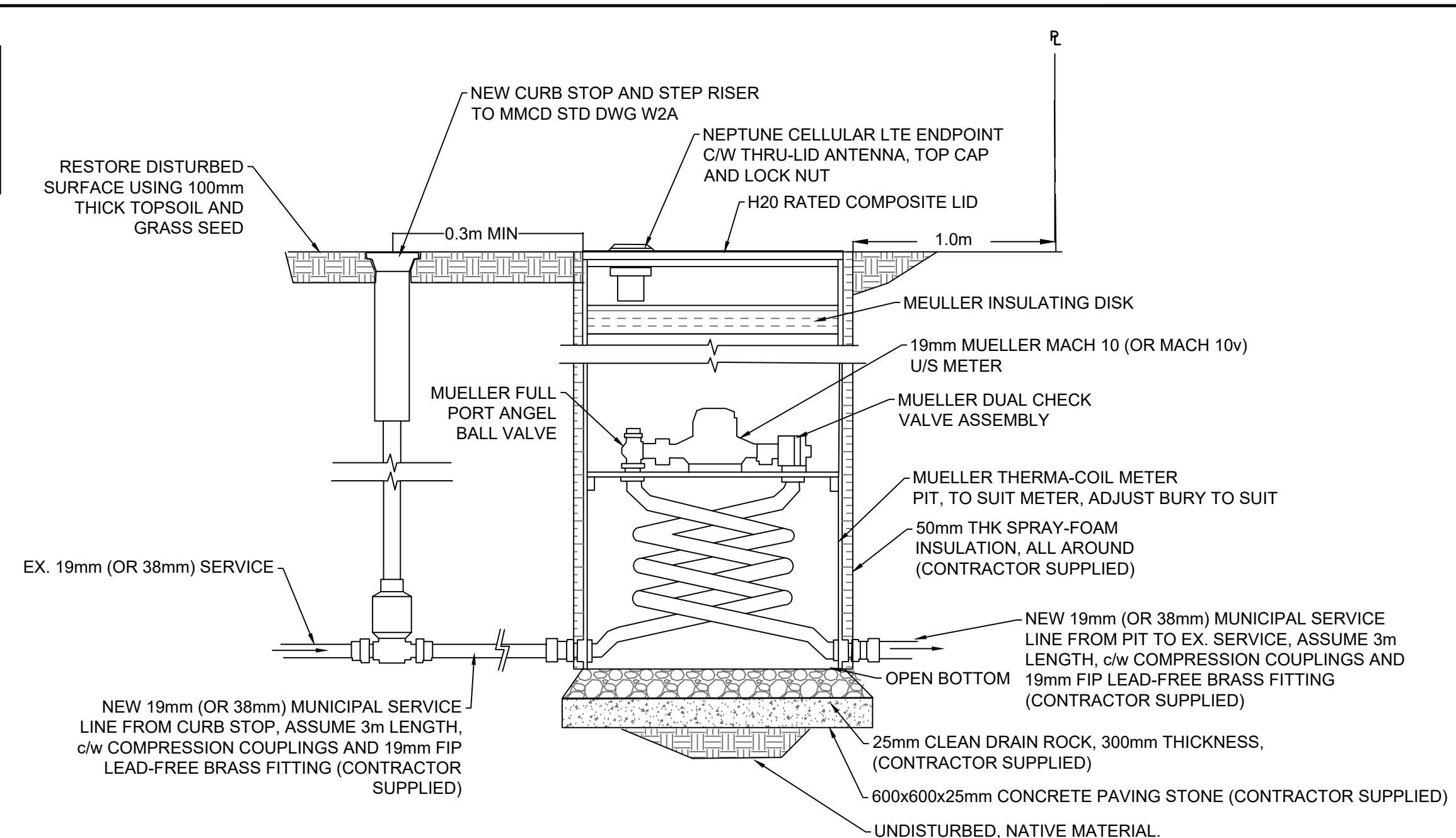
No.	DD/MM/YYYY	BY	REVISIONS FOR ISSUE	ENG.
C	17/10/2025	GH	ISSUED FOR TENDER	GH
B	29/09/2025	GH	FOR CONSTRUCTION PERMIT	GH

No.	DD/MM/YYYY	BY	ISSUE	ENG.
A	12/09/2025	PN	FOR CLIENT REVIEW	GH

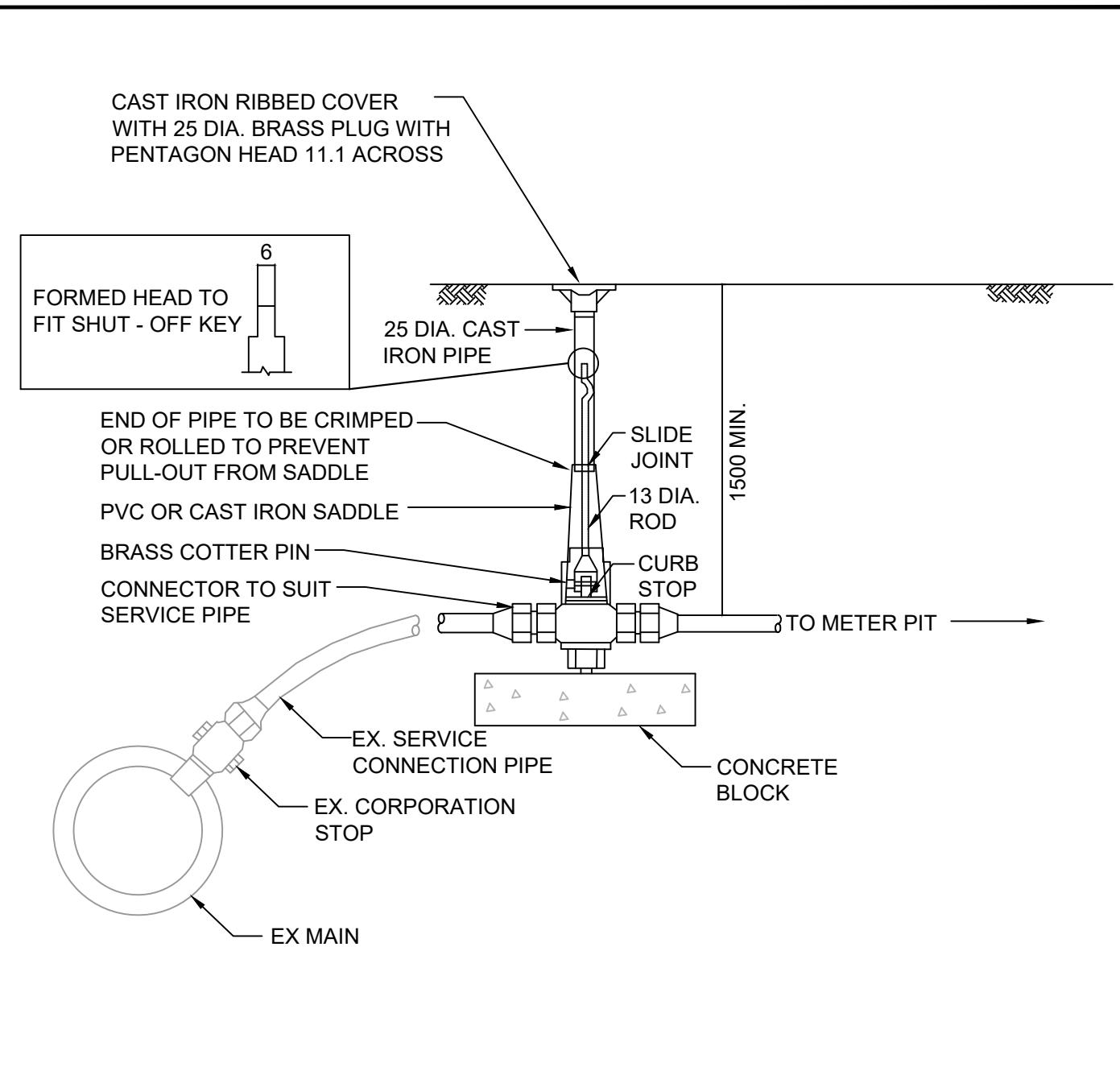
DRAWN BY PN	DATE 22/07/2025
CHECKED BY GH	DATE 12/09/2025
APPROVED BY GH	DATE 12/09/2025



**WATER METER INSTALLATION - STANDARD**  
NTS



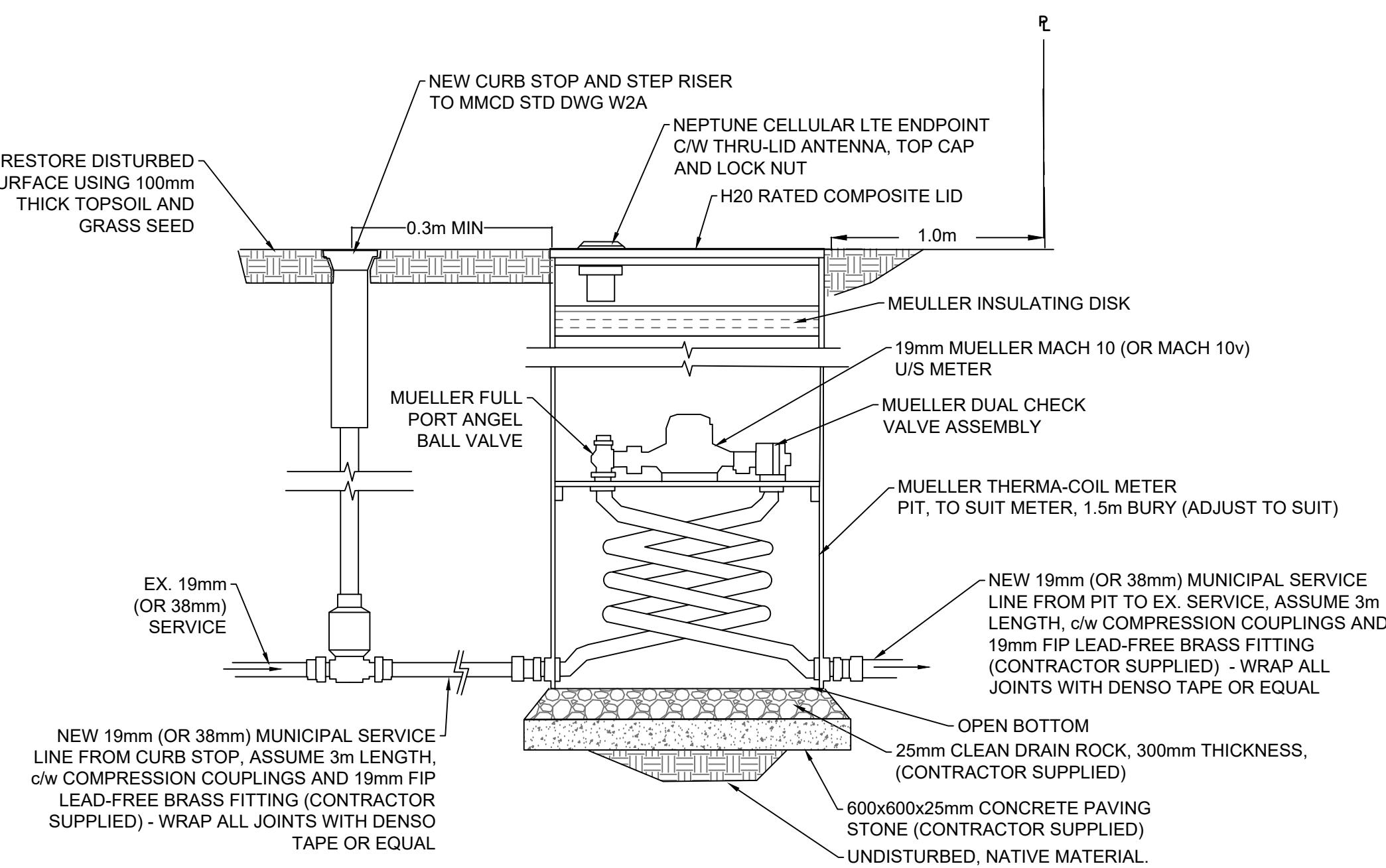
**WATER METER INSTALLATION - SHALLOW BURY**  
NTS



NOTE:

1. THIS DETAIL IS FOR SERVICES 19mm TO 50mm ONLY.
2. NOT USED
3. NOT USED
4. WHEN CURB STOP INSTALLED IN DRIVEWAY PLACE COVER IN CHAMBER. MARK "WATER". SEE DRAWING S9 FOR TYPICAL DETAIL.
5. REFER TO CONTRACT DRAWINGS AND SECTION 33 11 01 FOR DETAILED SPECIFICATIONS.
6. OPERATING ROD DIAMETERS:
  - 14mm FOR 25mm OR SMALLER CURB STOPS
  - 19mm FOR 32mm TO 50mm CURB STOPS

**WATER SERVICE CONNECTION**  
STANDARD DRAWING NUMBER W2a  
NTS.



**WATER METER INSTALLATION - HIGH GROUNDWATER**  
NTS

**ISSUED FOR TENDER**