
ERICKSON WATERMAIN UPGRADE

SITE INFRASTRUCTURE

CRESTON, BC

ISSUED FOR TENDER

WSP Project No: CA0003523.0564

Date: 2024-11-12



DRAWING LIST:

Sheet Number	Sheet Title
CA0003523.0564- C-000	TITLE SHEET
CA0003523.0564- C-001	GENERAL NOTES
CA0003523.0564- C-100	OVERALL LOCATION PLAN - ERICKSON ROAD
CA0003523.0564- C-101	PLAN / PROFILE - ERICKSON ROAD
CA0003523.0564- C-102	TYPICAL DETAILS
CA0003523.0564- C-103	TYPICAL DETAILS
CA0003523.0564- C-104	PRV DETAILS

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GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE OWNER TO ARRANGE A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF CONSTRUCTION.
2. CONTACT "BC ONE CALL" AT 1-800-474-6886 A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION TO LOCATE ALL EXISTING UTILITIES.
3. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH:
 - APPLICABLE LOCAL MUNICIPAL BYLAWS AND GUIDELINES;
 - THE MASTER MUNICIPAL CONSTRUCTION DOCUMENT AND STANDARD DETAIL DRAWINGS (MMCD) LATEST EDITION (PLATINUM EDITION);
 - CONSTRUCTION PLANS, SEALED AND ISSUED FOR CONSTRUCTION
 - APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED THEREIN;
 - FLURO AND/OR MINISTRY OF ENVIRONMENT AND/OR FEDERAL DEPARTMENT OF FISHERIES AND OCEANS REQUIREMENTS;
 - MINISTRY OF TRANSPORTATION "B. C. TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS", LATEST EDITION;
 - WORKSAFE BC LATEST EDITION;
 - HEALTH AUTHORITY.THE CONTRACTOR SHALL MAINTAIN ON SITE COPIES OF THE ABOVE DOCUMENTS AND SHALL ENSURE THAT ALL TRADES ARE THOROUGHLY FAMILIAR WITH THE APPLICABLE SECTIONS OF THE DOCUMENTS.
4. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING SERVICES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS PRIOR TO CONSTRUCTION.
5. FIGURED DIMENSION SHALL GOVERN OVER SCALED DIMENSIONS.
6. LOT DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. REFER TO BCLS REGISTERED LEGAL PLAN FOR ACTUAL LOT DIMENSIONS. THE CONTRACTOR SHALL CONFIRM LOCATIONS OF LOT LINES PRIOR TO INSTALLATION OF SERVICE CONNECTIONS.
7. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO COMMENCING THE WORK.
8. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PERSONNEL AT LEAST 72 HOURS PRIOR TO THE WORK. SCHEDULING AND OTHER CONSTRUCTION CONSTRAINTS IMPOSED BY THESE WORKS SHALL BE TAKEN INTO ACCOUNT.
9. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING STREETS, SERVICES, OR LANDSCAPING THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION. REPAIRS TO EXISTING SERVICES SUCH AS WATER, SANITARY SEWER, STORM SEWER AND STREET OR TRAFFIC LIGHTING SHALL BE MADE BY THE CITY AT COST TO THE CONTRACTOR UNLESS OTHERWISE AGREED TO. REPAIRS TO EXISTING SURFACE WORKS MAY BE DONE BY THE CONTRACTOR AT THE DISCRETION OF THE ROCK.
10. THE CONTRACTOR SHALL ENSURE THAT STREETS ARE KEPT CLEAN AND FREE OF EQUIPMENT AND MATERIALS AT ALL TIMES WHEN CONSTRUCTION ACTIVITY IS NOT UNDERWAY.
11. A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRE-CONSTRUCTION MEETING.
12. CONTRACTOR SHALL BE REGISTERED WITH WORKSAFE BC.
13. CONTRACTOR TO FOLLOW THE REQUIREMENTS OF THE BC INTERIOR HEALTH WATERWORKS CONSTRUCTION PERMIT AND THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE (MOTI) PERMIT TO CONSTRUCT, USE, AND MAINTAIN WORKS WITHIN THE RIGHT-OF-WAY.
14. CONTRACTOR TO AVOID DAMAGE TO PRIVACY SHRUBS ALONG WATERMAIN ALIGNMENT.
15. CONTRACTOR TO UTILIZE TRENCH BOX TO LIMIT DISTURBANCE TO THE ROAD EDGE OF PAVEMENT AND TO AVOID DISTURBANCE OF EXISTING CEDAR AND OTHER TYPES OF SHRUBS NOTED ON THE PLANS.
16. THE CONTRACTOR MUST NOT TRENCH MORE THAN 45 METRES OF TRENCH LENGTH EACH DAY WITHOUT FULL BACKFILL OF THE TRENCH BEFORE THE END OF EACH WORKING DAY.
17. THE CONTRACTOR MUST NOT USE AN EXCAVATOR TO TRAVEL ACROSS THE EXISTING ERICKSON ROAD OR 16TH AVENUE SOUTH ROAD PAVEMENT WITHOUT PROPER ASPHALT PROTECTED FROM THE EXCAVATOR TRACKS. RUBBER TRACKED EXCAVATORS ARE PREFERRED.
18. TRENCH EXCAVATION MUST NOT BE STOCKPILED ON THE EXISTING ERICKSON ROAD AND 16TH AVENUE SOUTH ASPHALT SURFACE.

EARTHWORKS & GRADING

1. THE CONTRACTOR SHALL ENSURE ALL CONSTRUCTION ACTIVITIES ARE IN ACCORDANCE WITH THE DESIGN CONTRACT DRAWINGS AND THE STANDARD MMCD 2019 (PLATINUM) EDN.
2. ALL TESTING OF MATERIALS AND COMPACTION SHALL BE PERFORMED BY A THIRD PARTY QUALIFIED MATERIALS TESTING FIRM. THE RESULTS OF THE COMPACTION TESTING REPORTING MUST BE PROVIDED TO THE CONTRACT ADMINISTRATOR WITHIN 24 HOURS OF EACH TEST. THE COMPACTION TESTING REPORTING WILL BE SUBMITTED TO THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE AND THE REGIONAL DISTRICT OF CENTRAL KOOTENAY.
3. A GEOTECHNICAL ENGINEER MAY BE RETAINED BY THE OWNER TO REVIEW AND APPROVE EXISTING MATERIAL, TRENCH BACKFILL, AND IMPORTED MATERIAL PRIOR TO PLACEMENT.
4. REMOVE VEGETATION, STRIP ORGANIC MATERIAL, AND UNSUITABLE MATERIAL, AS REQUIRED, PRIOR TO PLACING STRUCTURAL FILL.
5. COMPACT ALL EARTH FILLS AND GRANULAR MATERIAL LAYERS TO 95% SPMD, UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS (98% TO 100% SPMD FOR DRIVEWAY CROSSINGS, ROAD CROSSINGS AND DISTURBED ROAD SHOULDER).
6. AREAS SHALL BE GRADED TO +/- 50mm AT NOTED CONTROL POINTS. FINAL GRADING SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A SUBSTANTIAL COMPLETION CERTIFICATE.
7. EMBANKMENTS SHALL BE PLACED, SHAPED, COMPACTED, AND PROTECTED TO STANDARDS AND SPECIFICATIONS.
8. ALL SIEVE, PROCTOR AND DENSITY TEST RESULTS TO BE PROVIDED TO THE CONTRACT ADMINISTRATOR FOR REVIEW.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT BMPS ARE IMPLEMENTED ON SITE. ACCEPTABLE BMPS INCLUDE THOSE PROVIDED BELOW, THOSE PROVIDED BY THE EROSION AND SEDIMENT CONTROL SUPERVISORS, AND THOSE PROVIDED IN FISHERIES AND OCEANS CANADA'S LAND DEVELOPMENT GUIDELINES FOR THE PROTECTION OF AQUATIC HABITAT (1993):
 - a. CLEAR ONLY THE AREAS NECESSARY (LEAVE VEGETATION IN AREAS THAT DON'T REQUIRE DISTURBANCE)
 - b. ESTABLISH A STABILIZED ENTRY/EXIT POINT
 - c. PROTECT THE PERIMETER OF THE SITE
 - d. DIVERT UP-SLOPE WATER AROUND THE WORK SITE (KEEP CLEAN WATER CLEAN)
 - e. ROUGHEN EXPOSED SOILS
 - f. TEMPORARILY STABILIZE DISTURBED EARTH
 - g. CREATE TEMPORARY SEDIMENT DETENTION FACILITIES ONSITE
 - h. INSTALL INLET PROTECTION MEASURES AT ALL STORM SYSTEM INLETS
 - i. PLACE SOIL PILES UPSLOPE OF THE PERIMETER PROTECTION AND COVER WITH PLASTIC SHEETING OR EROSION CONTROL BLANKETS
 - j. DEWATER TO A CONTAINED PART OF THE SITE AND ALLOW IT TO INFILTRATE INTO THE SOIL
 - k. INSTALL ROOF DOWNPIPES AS SOON AS PRACTICABLE AFTER THE ROOF IS LAID
 - l. ENSURE THAT ALL CONTROL MEASURES ARE MAINTAINED IN GOOD WORKING ORDER
 - m. RE-VEGETATE OR OTHERWISE PERMANENTLY STABILIZE THE SITE
2. THE CONTRACTOR SHALL INSPECT, DOCUMENT, AND MAINTAIN ESC WORKS REGULARLY, AND AFTER EACH SIGNIFICANT RAINFALL EVENT. RECOMMENDATIONS CONCERNING ADDITIONS, MAINTENANCE, AND MODIFICATIONS TO THE ACCEPTED PLAN, OR NEW BEST MANAGEMENT PRACTICES (BMPS), SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE MODIFICATION AND MAINTENANCE OF THE ESC WORKS ON AN ONGOING BASIS, AND IMMEDIATELY PERFORM REMEDIAL WORKS AS DIRECTED BY THE ESCS, THE MUNICIPALITY HAVING JURISDICTION, ENGINEER OF RECORD, OR OTHER REGULATORY AND GOVERNMENT AGENCIES.

WATER

1. PRESSURE TESTING AND CHLORINATION AND BACTERIOLOGICAL SAMPLING OF NEW WATERWORKS TO BE PERFORMED PRIOR TO TIE-IN TO EXISTING WORKS AND WITNESSED BY ENGINEER OF RECORD. CONTRACTOR TO PROVIDE TESTING PLAN TO ENGINEER OF RECORD PRIOR TO UNDERTAKING TESTS.
2. THE CONTRACTOR SHALL ENSURE THAT ALL NEW WATERWORKS HAVE TEST POINTS AND TEMPORARY BLOW-OFFS SUITABLE TO ENSURE ADEQUATE PRESSURE TESTING, CHLORINATION AND FLUSHING. DISCHARGE OF CHLORINATED WATER INTO DITCHES, STORM SEWERS OR WATERCOURSES IS STRICTLY PROHIBITED. SUPERCHLORINATED WATER SHALL BE NEUTRALIZED IN ACCORDANCE WITH MINISTRY OF ENVIRONMENT AND DEPARTMENT OF FISHERIES AND OCEANS GUIDELINES PRIOR TO DISCHARGE TO ANY DRAINAGE COURSE OR GREEN DITCH.
3. WHERE THE WATER LINES WILL BE COVERED WITH PRIMARILY NATIVE SOIL CLAY BACKFILL, THE MINIMUM BURIAL DEPTH SHOULD BE TAKEN AS 1.5m.
4. WATERMANS SHALL BE MARKED BELOW GRADE USING A METALLIC DETECTABLE REINFORCED UNDERGROUND UTILITY TRACER WIRE. THE TAPE IS TO BE INSTALLED ON TOP OF THE PIPE. SEE DETAIL ON SHEET C-103.
5. A MINIMUM OF 1.5m HORIZONTAL CLEAR SEPARATION AND 150mm CLEAR VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN WATERMANS AND ELECTRICAL CONDUITS, GAS MAINS AND TELEPHONE CONDUITS, UNLESS OTHERWISE SPECIFIED.
6. CONTRACTOR SHALL CONDUCT PRESSURE TEST IN ACCORDANCE WITH AWWA/MMCD SPECIFICATIONS AND IN THE PRESENCE OF THE ENGINEER OF RECORD.
7. CONTRACTOR TO MAINTAIN ACCESS AND WATER SERVICE TO LOCAL HOUSEHOLDS AND BUSINESSES AT ALL TIMES.
8. HEALTH AUTHORITY WATERWORKS CONSTRUCTION PERMIT AND A MOTI ROAD RIGHT-OF-WAY WORK PERMIT ARE REQUIRED PRIOR TO COMMENCING WORK. THE CONTRACT ADMINISTRATOR WILL OBTAIN THESE PERMITS.
9. ALL PIPE TO BE DR18 PVC AWWA C900 PRESSURE CLASS.
10. ALL WATERMAIN PIPE JOINTS TO BE WRAPPED WITH DENSO TAPE IF WATERMAIN INSTALLED WITHIN THE GROUND WATER TABLE.

LEGEND:

REVISION:

REV	DATE	DESCRIPTION	BY
A	2024-11-12	ISSUED FOR TENDER	LB

SEAL:

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ORIGINAL SCALE: --	DATE: 2024-11-12
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PROJECT NUMBER: CA0003523.0564

CLIENT:

REGIONAL DISTRICT
CENTRAL KOOTENAY

CLIENT REF. #:

PROJECT:

ERICKSON WATER SYSTEM -
WATERMAIN REPLACEMENT

TITLE:

GENERAL NOTES

DRAWING NUMBER:

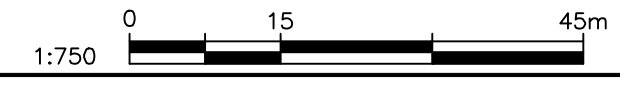
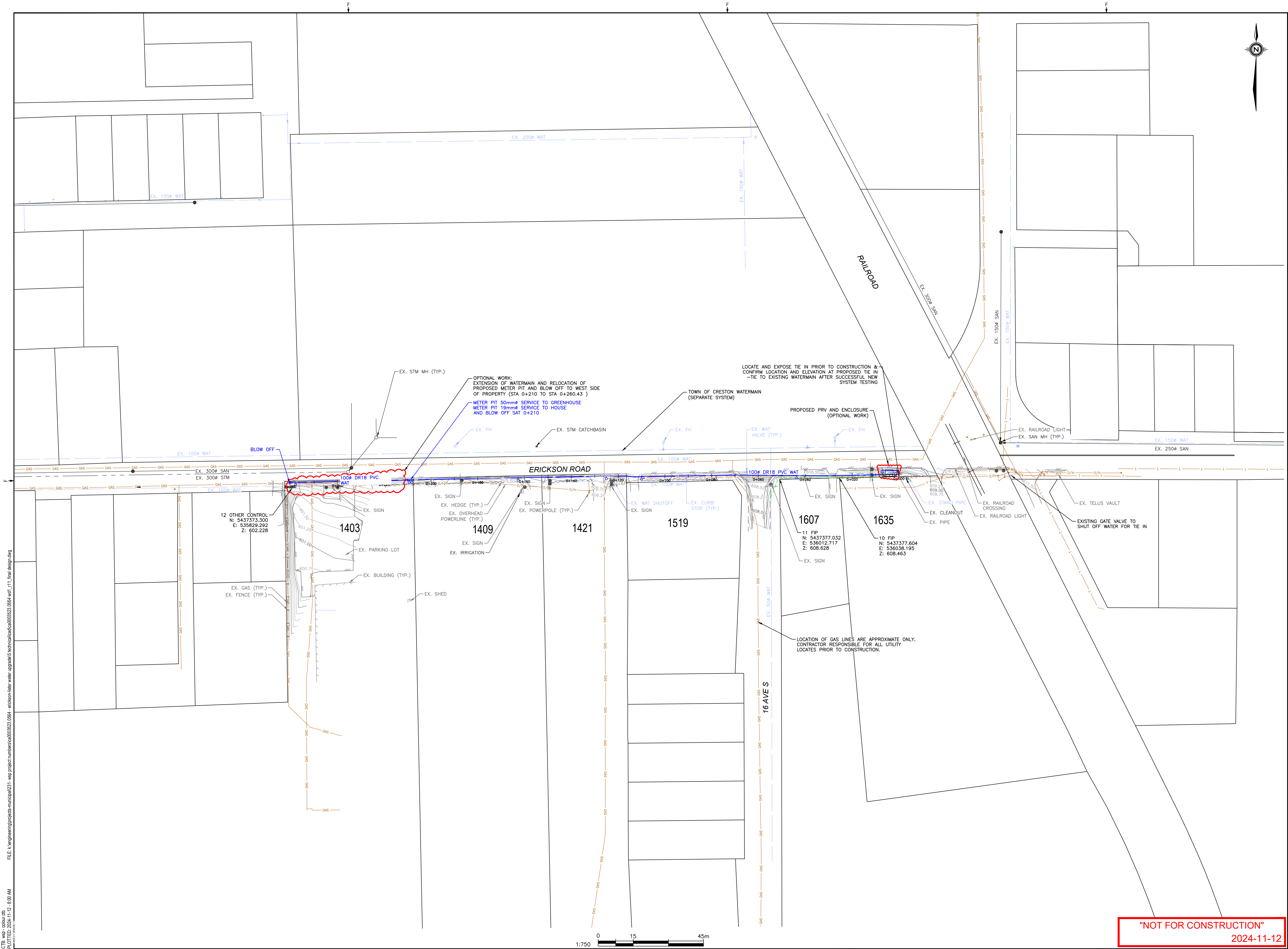
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"NOT FOR CONSTRUCTION"
2024-11-12

LEGEND:

EXISTING	PROPOSED
STORM MANHOLE	STORM MANHOLE
WATER MAIN	WATER MAIN
...	...

REVISION:

REV	DATE	DESCRIPTION	BY
B	2024-11-12	ISSUED FOR TENDER	LB
A	2024-01-31	PRELIMINARY - NOT FOR CONSTRUCTION	AIP

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PROJECT:

ERICKSON WATER SYSTEM
- WATERMAIN REPLACEMENT

TITLE:

OVERALL LOCATION PLAN

DRAWING NUMBER:

C-100

REV:

B

INSTALLATION OF TRACE WIRE

GENERAL

This Specification governs trace wire installation on water mains.

EXTRA TRACE WIRE MATERIAL

Trace wire shall be #14 AWG Copper wire with 30 mil blue colour high molecular weight polyethylene insulation approved for direct burial.

All underground sections of wire shall be continuous (without joints or splices). Surface connection points shall be made at valve boxes or at 1.2 metre long, hot-dipped galvanized U-channel posts c/w blue plastic markers.

INSTALLATION

Trace wire shall be installed in a continuous fashion. Install trace wire on top of water main and secure to main every two (2) metres with tape as shown in Figure 1.

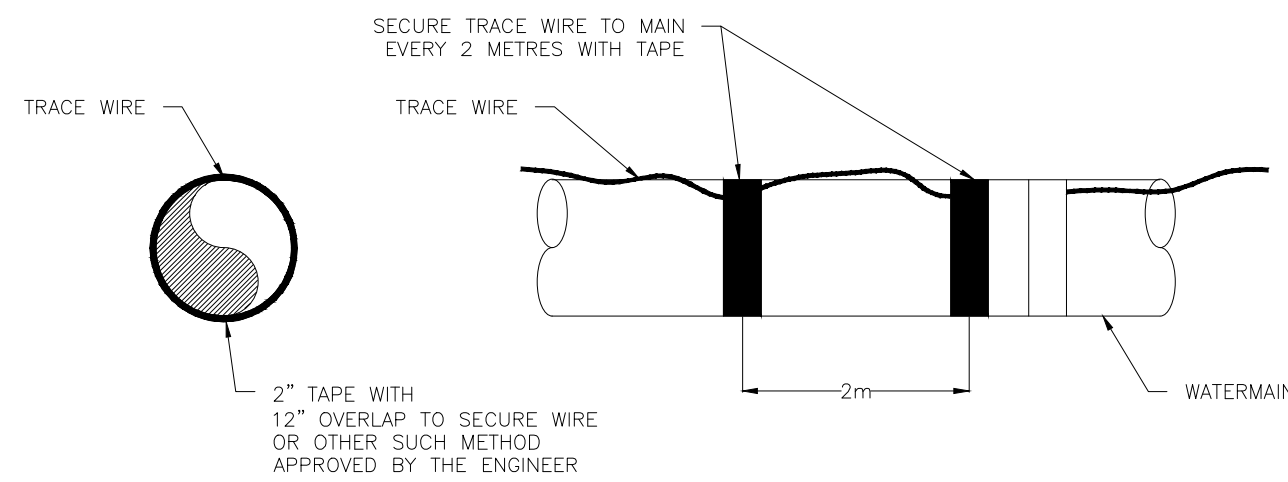


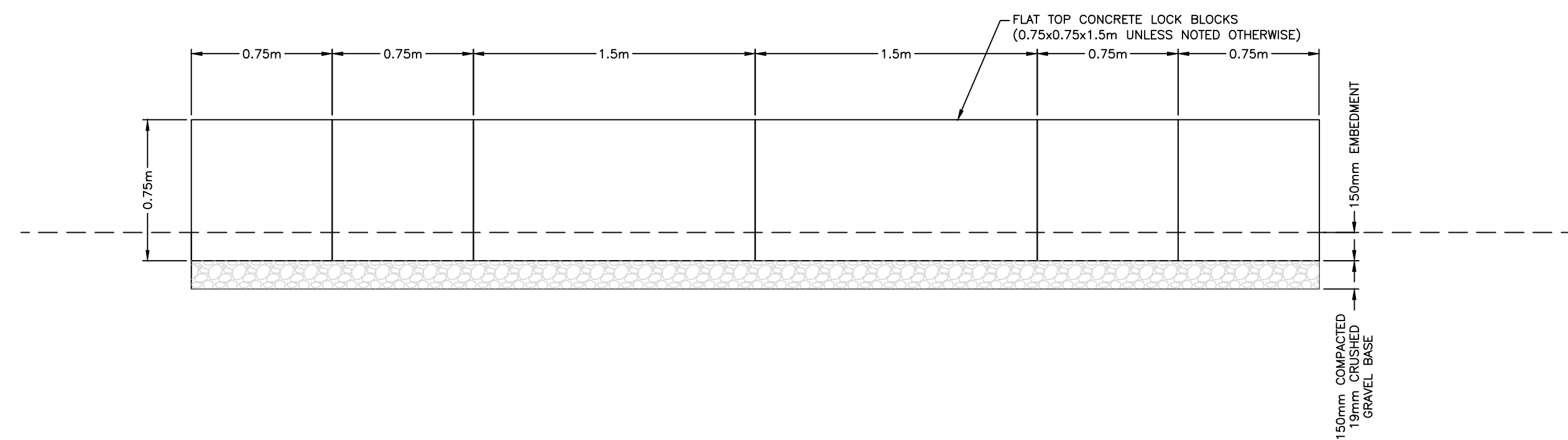
Figure 1. Trace wire installation.

Bring trace wire to surface at every valve box or vault as called out in the drawings. Trace wire shall be brought to the surface at least every three hundred (300) metres. Take care not to damage the wire coating. Repair damaged coating with electrical tape.

Where tracer wire is brought to the surface, it shall be located outside the proposed trail, road surface and road side ditch.

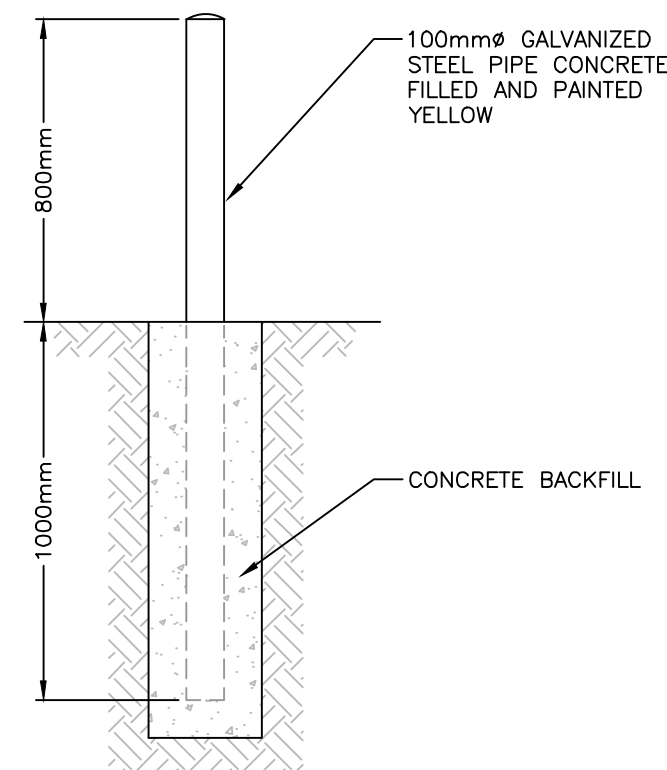
TRACER WIRE DETAIL

SCALE: N.T.S.



RETAINING WALL DETAIL

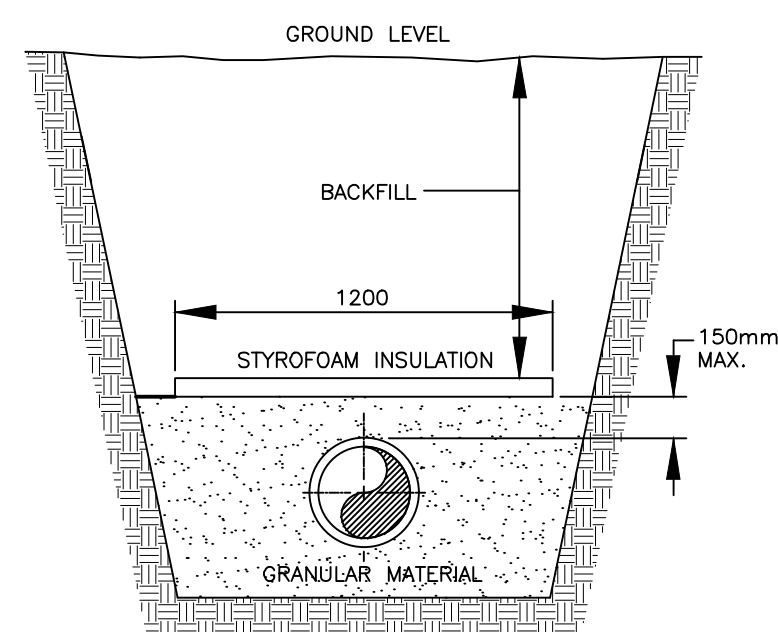
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BOLLARD DETAIL

SCALE: 1:20

TO BE INSTALLED TO PROTECT BLOW OFF & PRV VAULT

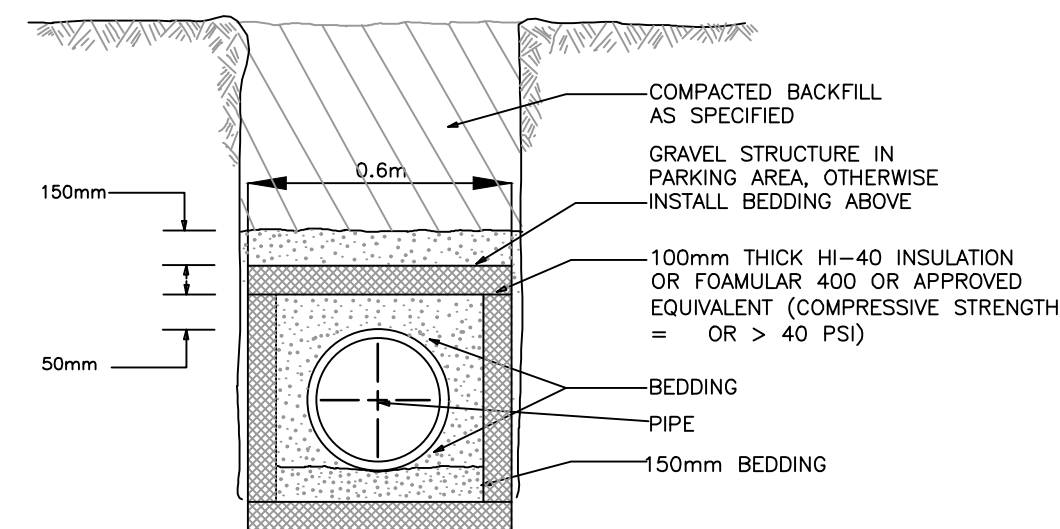


UNITS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

DETAIL-PIPE COVER INSULATION

NOT TO SCALE

- NOTES:**
1. PLACE INSULATION WITHIN 150mm OF TOP OF PIPE.
 2. INSULATION IS HI-40 FOAMULAR 400 OR APPROVED EQUIVALENT.
 3. PLACE 50mm THICKNESS OF INSULATION WITH NO GAPS BETWEEN INSULATION SHEETS, WHERE COVER IS LESS THAN 1.5m.



SHALLOW PIPE INSULATION DETAIL

N.T.S.

NOTES:
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
MIN. 98% STD. PROCTOR DENSITY FOR ALL FILL IN TRAVELLED AREAS

INSTALLATION OF TRACE WIRE

Trace Wire in a Valve Box

Trace wire shall be brought up in all valve boxes. The trace wire shall be brought to the surface according to Figure 3.

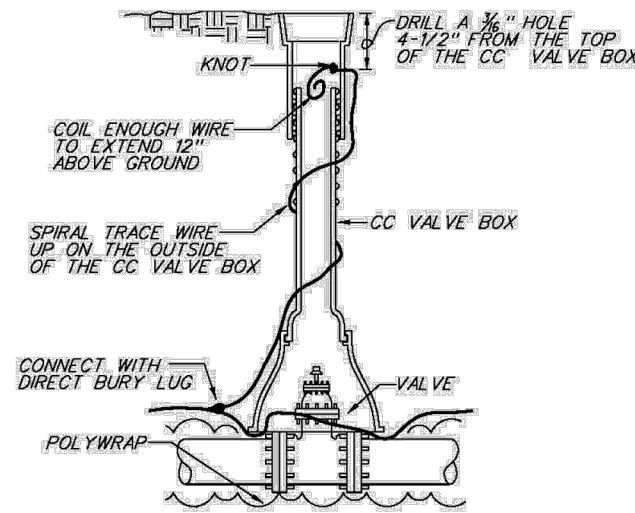
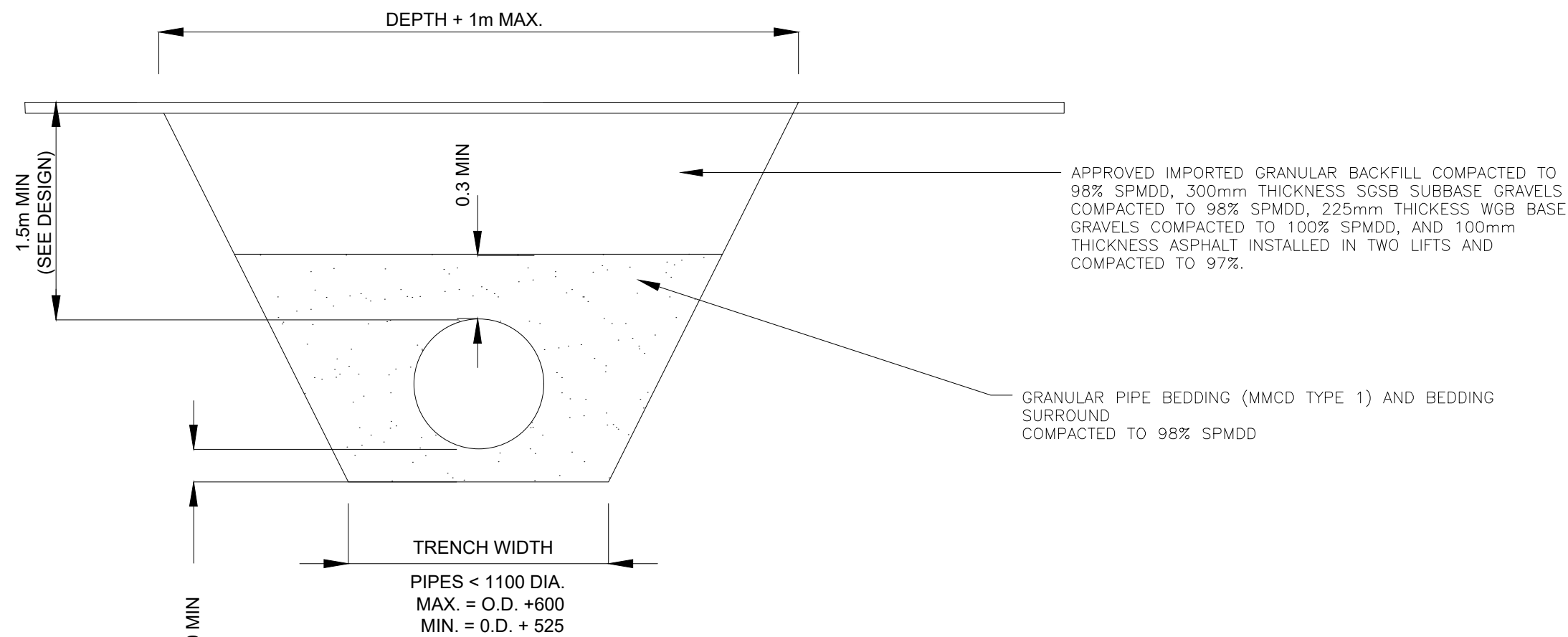


Figure 3. Trace wire access at a valve box.

TRACER WIRE DETAIL

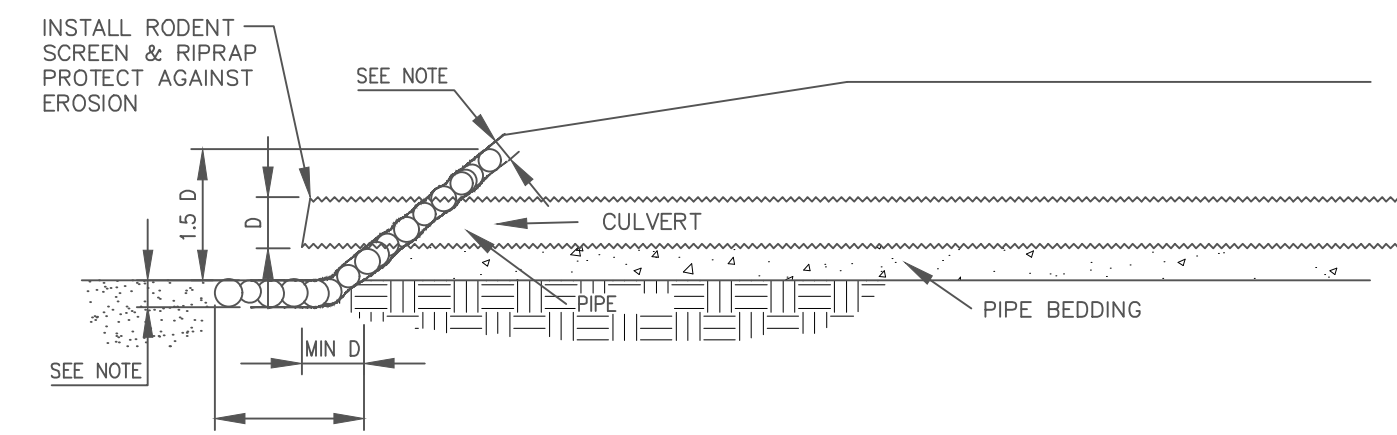
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- NOTES:**
1. RESTORE BOULEVARD TO EQUAL OR BETTER CONDITIONS.

ROAD RESTORATION

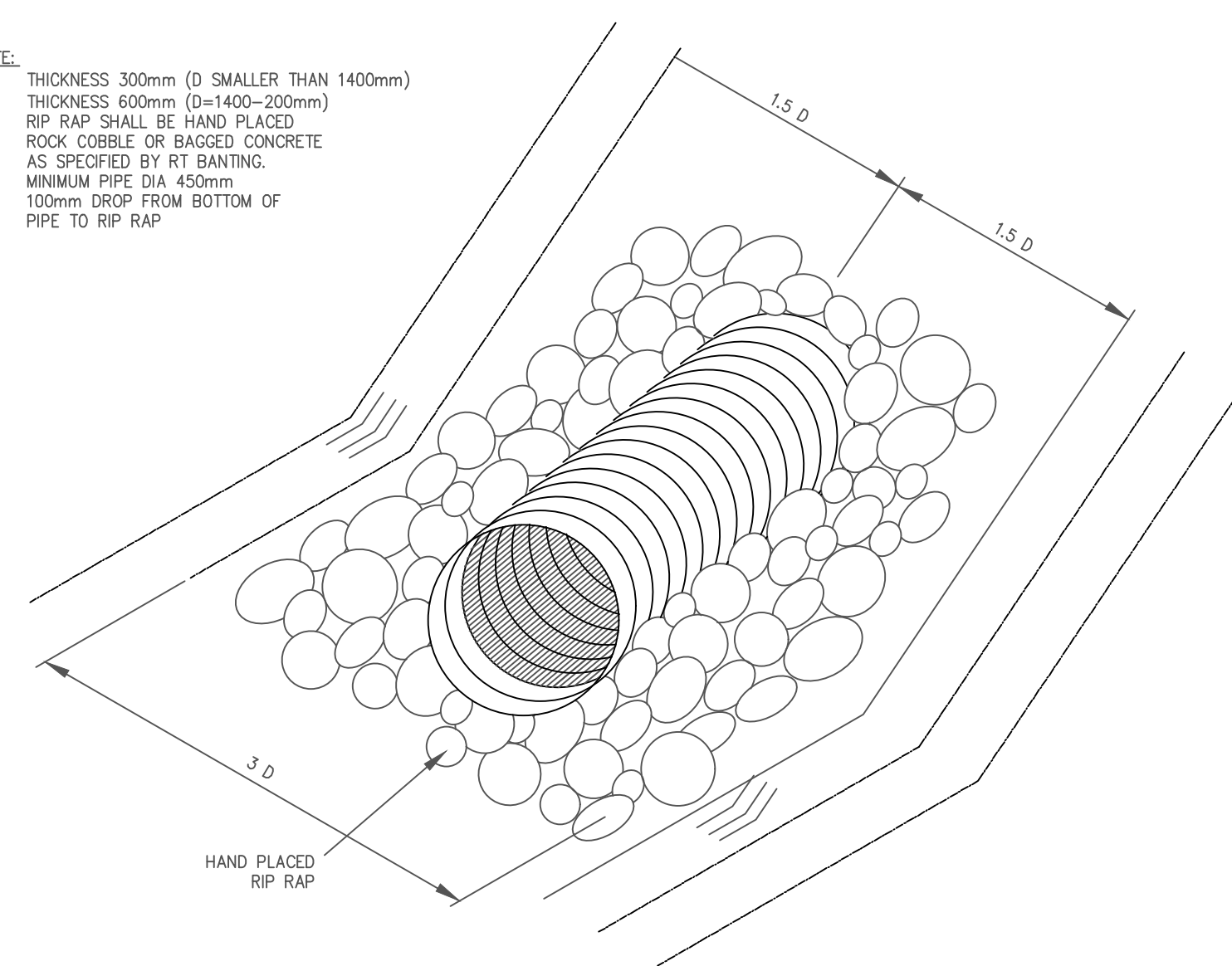
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SECTION "A - A" PIPE OUTLET

NOT TO SCALE

- NOTE:**
1. THICKNESS 300mm (D SMALLER THAN 1400mm)
 2. THICKNESS 600mm (D=1400-2000mm)
 3. RIP RAP SHALL BE HAND PLACED ROCK COBBLE OR BAGGED CONCRETE AS SPECIFIED BY RT BANTING.
 4. MINIMUM PIPE DIA 450mm
 5. 100mm DROP FROM BOTTOM OF PIPE TO RIP RAP



ISOMETRIC VIEW PIPE OUTLET

NOT TO SCALE

LEGEND:

EXISTING STORM MANHOLE	EXISTING CATCHBASIN MANHOLE	EXISTING AIR RELEASE	EXISTING DRAIN LAMP
EXISTING STORM CLEANOUT	EXISTING CATCHBASIN CLEANOUT	EXISTING GAS VENT	EXISTING POLE TOP LAMP
EXISTING INSPECTION CHAMBER (MMD)	EXISTING INSPECTION CHAMBER (SMB)	EXISTING GAS VENT (MMD)	EXISTING TEST PIT
EXISTING STORM MANHOLE	EXISTING CATCHBASIN MANHOLE	EXISTING AIR RELEASE	EXISTING DRAIN LAMP
EXISTING STORM CLEANOUT	EXISTING CATCHBASIN CLEANOUT	EXISTING GAS VENT	EXISTING POLE TOP LAMP
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PROPOSED STORM MANHOLE	PROPOSED CATCHBASIN MANHOLE	PROPOSED AIR RELEASE	PROPOSED DRAIN LAMP
PROPOSED STORM CLEANOUT	PROPOSED CATCHBASIN CLEANOUT	PROPOSED GAS VENT	PROPOSED POLE TOP LAMP
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PROPOSED INSPECTION CHAMBER (MMD)	PROPOSED INSPECTION CHAMBER (SMB)	PROPOSED GAS VENT (MMD)	PROPOSED TEST PIT
MONUMENT	SURVEY HUB	SURVEY HUB	CABLE SERVICE BOX
STORM BOX	STORM BOX	STORM BOX	TELEPHONE VAULT

REVISION:

REV	DATE	DESCRIPTION	BY
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SEAL:

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CLIENT:

REGIONAL DISTRICT CENTRAL KOOTENAY

CLIENT REF. #:

PROJECT:

ERICKSON WATER SYSTEM - WATERMAIN REPLACEMENT

TITLE:

TYPICAL DETAILS

DRAWING NUMBER: C-103

REV: A

"NOT FOR CONSTRUCTION"
2024-11-12

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