

GENERAL NOTES:

- 1.1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- 1.2. REFER TO DRAWING C0-002 FOR FURTHER INFORMATION, LIST OF SOURCE DATA, AND LIMITATIONS.
- 1.3. COORDINATE SYSTEM IS NAD 83 UTM ZONE N11. VERTICAL DATUM IS CGVD2013.
- 1.4. WATER LINE LOCATION INFORMATION IS INFERRED AND IS CONSIDERED REPRESENTATIVE ONLY AND IS TO BE CONFIRMED FOR DECOMMISSIONING WORKS. COLD SPRING CREEK'S REFERENCE ALIGNMENT IS BASED ON LIDAR AND MAY VARY.
- 1.5. UNLESS MCELHANNEY AGREES OTHERWISE IN WRITING, THIS DRAWING SHALL NOT BE MODIFIED OR USED FOR ANY PURPOSE OTHER THAN THE PURPOSE FOR WHICH IT WAS GENERATED. MCELHANNEY SHALL HAVE NO LIABILITY FOR ANY DAMAGES OR LOSS ARISING IN ANY WAY FROM ANY USE OR MODIFICATION OF THIS DOCUMENT NOT AUTHORIZED BY MCELHANNEY. ANY USE OR RELIANCE UPON THIS DOCUMENT OR ITS CONTENT BY THIRD PARTIES SHALL BE AT SUCH THIRD PARTIES' SOLE RISK.

WATERMAIN NOTES:

- 2.1. ALL WORKS TO BE DONE IN ACCORDANCE WITH REGIONAL DISTRICT OF EAST KOOTENAY SUBDIVISION SERVICING BYLAW NO. 1954, 2008 CONSOLIDATION AND MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (LATEST EDITIONS).
- 2.2. MAXIMUM 10 HOURS SERVICE DISRUPTIONS ARE ONLY PERMITTED DURING DISCONNECTION AND TIE-INS. TEMPORARY WATERMANS SHALL BE TESTED, FLUSHED, AND DISINFECTED AS PER WATERMAIN NOTES 2.9, 2.10, 2.11, AND 2.12 BELOW.
- 2.3. BEDDING SHALL BE 19.0mm GRANULAR BEDDING AND SURROUND MATERIAL AS PER MMCD SECTION 31 05 17, CL-2.7, TYPE "1". AFTER RECEIVING APPROVAL FROM CONTRACT ADMINISTRATOR, USE FINE DRAIN ROCK BEDDING AND SURROUND AS PER MMCD 31 05 17 CL - 2.8 IF GROUND WATER TABLE PROHIBITS PROPER COMPACTION OF TYPE "1" GRANULAR BEDDING.
- 2.4. TRENCH BACKFILL SHALL BE SUITABLE NATIVE MATERIAL, COMPACTED TO 95% M.P.D. UNLESS OTHERWISE NOTED. "TEST STRIPS" METHOD TO DETERMINE LEVEL OF COMPACTION MAY BE UTILIZED IF APPROVED BY THE CONTRACT ADMINISTRATOR, SHOULD THE MATERIAL BE TOO VARIABLE TO BE REPRESENTED BY PROCTOR(S) DENSITY SAMPLES. SCREEN OFF OVERSIZED MATERIAL PRIOR TO BACKFILL AND AVOID CONTACT WITH THE PIPE.
- 2.5. CONTRACTOR TO EXPOSE AND VERIFY EXISTING W/M, AT ALL POINTS OF TIE-IN AND ANY UTILITY CONFLICTS, PRIOR TO THE START OF CONSTRUCTION AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. TIE-IN COORDINATES, ELEVATION, PIPE SIZE, AND MATERIAL TO BE PROVIDED TO CONTRACT ADMINISTRATOR PRIOR TO WATERMAIN WORK.
- 2.6. CONTRACTOR TO BE RESPONSIBLE FOR SUPPLYING ALL MATERIALS, EXCAVATION AND RESTORATION OF TIE-IN WORKS.
- 2.7. ALL HDPE JOINTS TO BE BUTT-FUSED IN ACCORDANCE WITH ASTM D2657 AND PIPE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - 2.7.1. A FACTORY QUALIFIED JOINING TECHNICIAN AS DESIGNATED BY THE PIPE MANUFACTURER SHALL PERFORM ALL HEAT FUSION JOINTS.
- 2.8. ALL JOINTS SHALL BE:
 - 2.8.1. FABRICATED HDPE MITRED OR DUCTILE IRON FITTINGS TO AWWA C906 SUITABLE FOR PRESSURE RATING AS SPECIFIED IN CONTRACT DOCUMENT
 - 2.8.2. MOULDED HDPE FITTINGS TO ASTM 3261 SUITABLE FOR PRESSURE RATING SPECIFIED AND FUSION TO MAIN PIPE, DIMENSIONS AS SPECIFIED IN CONTRACT DOCUMENTS.
 - 2.8.3. FLANGED JOINTS TO AWWA C908 FLAT FACED STUB END AND LOOSE HOT-DIP GALVANIZED DUCTILE IRON (ASTM A536) BACKUP RING DRILLING TO ANSI B16.1 OR AWWA C207, CLASS SUITABLE FOR PRESSURE RATING SPECIFIED IN CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR FLANGE INSTALLATION INCLUDING TORQUE CALCULATIONS AND BOLT PATTERNS.
 - 2.8.4. USE FLANGED CONNECTIONS FOR ALL VALVES. REFER TO DRAWINGS FOR SPECIFIC CONNECTIONS AT TIE-INS
- 2.9. WATERMAIN PRESSURE TESTING TO BE AS PER MMCD SECTION 33 11 01.
- 2.10. WATERMAIN DISINFECTION AND FLUSHING TO BE MMCD SECTION 33 11 01.
- 2.11. WATERMAIN TESTING AS PER MMCD SECTION 33 11 01.
- 2.12. BACTERIAL TESTING REQUIRED AS PER MMCD SECTION 33 11 01.
- 2.13. HDPE WATERMAIN TO BE ANCHORED AT EITHER END WITH ANCHOR BLOCK AND FUSED RING CAPABLE OF WITHSTANDING SHRINKAGE DUE TO POSSONS RATIO WHILE UNDER PRESSURE, AS WELL AS TEMPERATURE CHANGES DURING OPERATION.
- 2.14. SOIL BEARING PRESSURE FOR THRUST AND ANCHOR BLOCK DESIGN IS 2000 lbs/ft²
- 2.15. ALL NON FUSED WATERMAIN JOINTS, FITTINGS, VALVES ETC. SHALL BE RESTRAINED OR FLANGED.
- 2.16. WATERMAIN TIE-INS TO BE COMPLETED BY THE CONTRACTOR, COORDINATE WITH FAIRMONT HOT SPRINGS RESORT UTILITIES AND ENGINEER TO ALLOW FOR REQUIRED INSPECTIONS, ONCE COMPLETION OF ALL TESTING, DISINFECTION, AND FLUSHING HAS BEEN APPROVED.
- 2.17. FAIRMONT HOT SPRINGS RESORT UTILITIES TO OPEN AND CLOSE ANY VALVES REQUIRED. CONTRACTOR TO PROVIDE ADEQUATE NOTICE TO CONTRACT ADMINISTRATOR SUCH THAT CONSTRUCTION IS NOT DELAYED.
- 2.18. ALL FITTINGS TO BE RATED FOR TEST PRESSURE OR BETTER.
- 2.19. TRACER WIRE TO BE INSTALLED ON ALL WATERMANS.
- 2.20. SEE SUPPLEMENTARY SPECIFICATION SECTION 31 24 13 SS - 3.4.38 FOR WATERMAIN HAUNCHING REQUIREMENTS.

LEGEND:

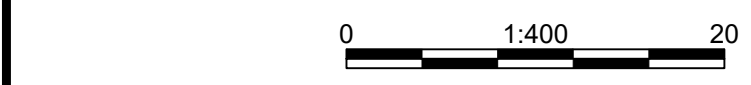
- EXISTING WATERMAIN: --- W ---
- PROPOSED WATERMAIN: - - - W - - -
- PROPOSED WATERMAIN ENCASUREMENT PIPE: [Blue shaded area]
- BACKFILL WITH APPROVED PROCESSED DEBRIS FLOW: [Orange shaded area]

Rev	Date	Description	Drawn	Design	App'd
0	2023-07-25	ISSUED FOR CONSTRUCTION	SS	KM	KB

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ORIGINAL DWG SIZE: ANSI D (22" x 34")

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2023-07-28

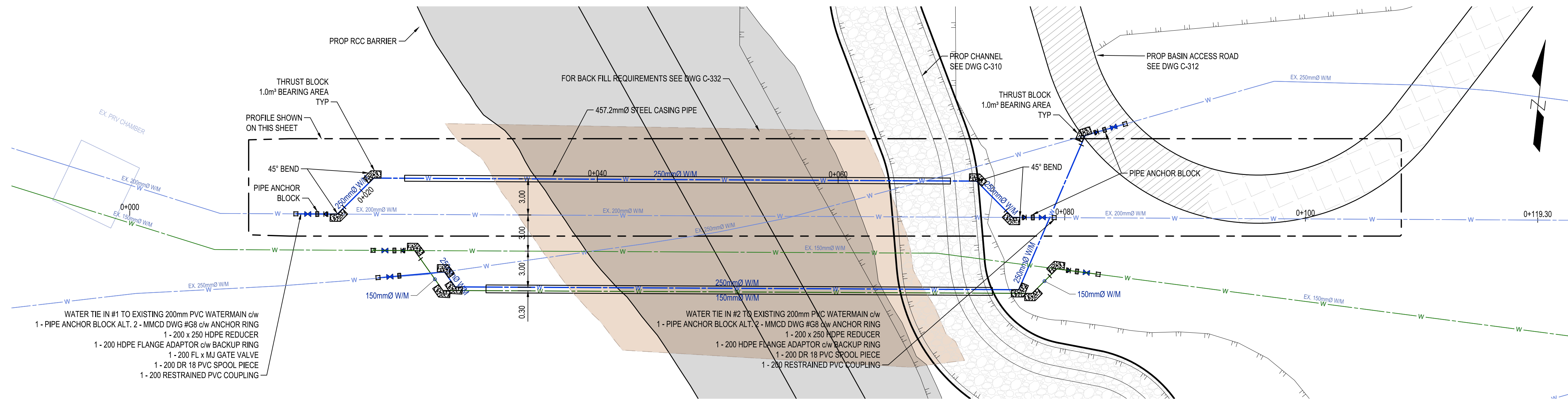
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REGIONAL DISTRICT OF EAST KOOTENAY
19 24TH AVENUE SOUTH, GRANBROOK BC V1C 2N5

**COLD SPRING CREEK
DEBRIS FLOW MITIGATION
WATERMAIN PLAN**

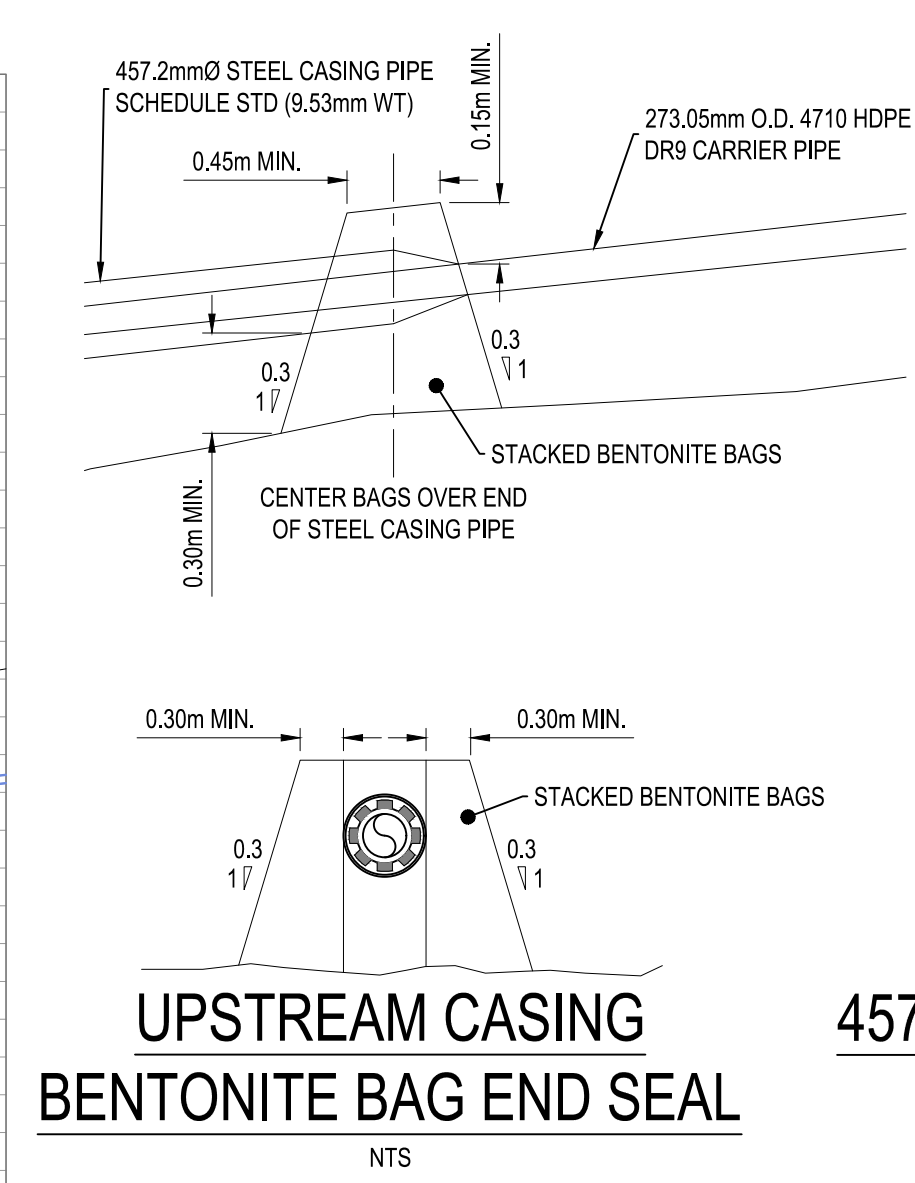
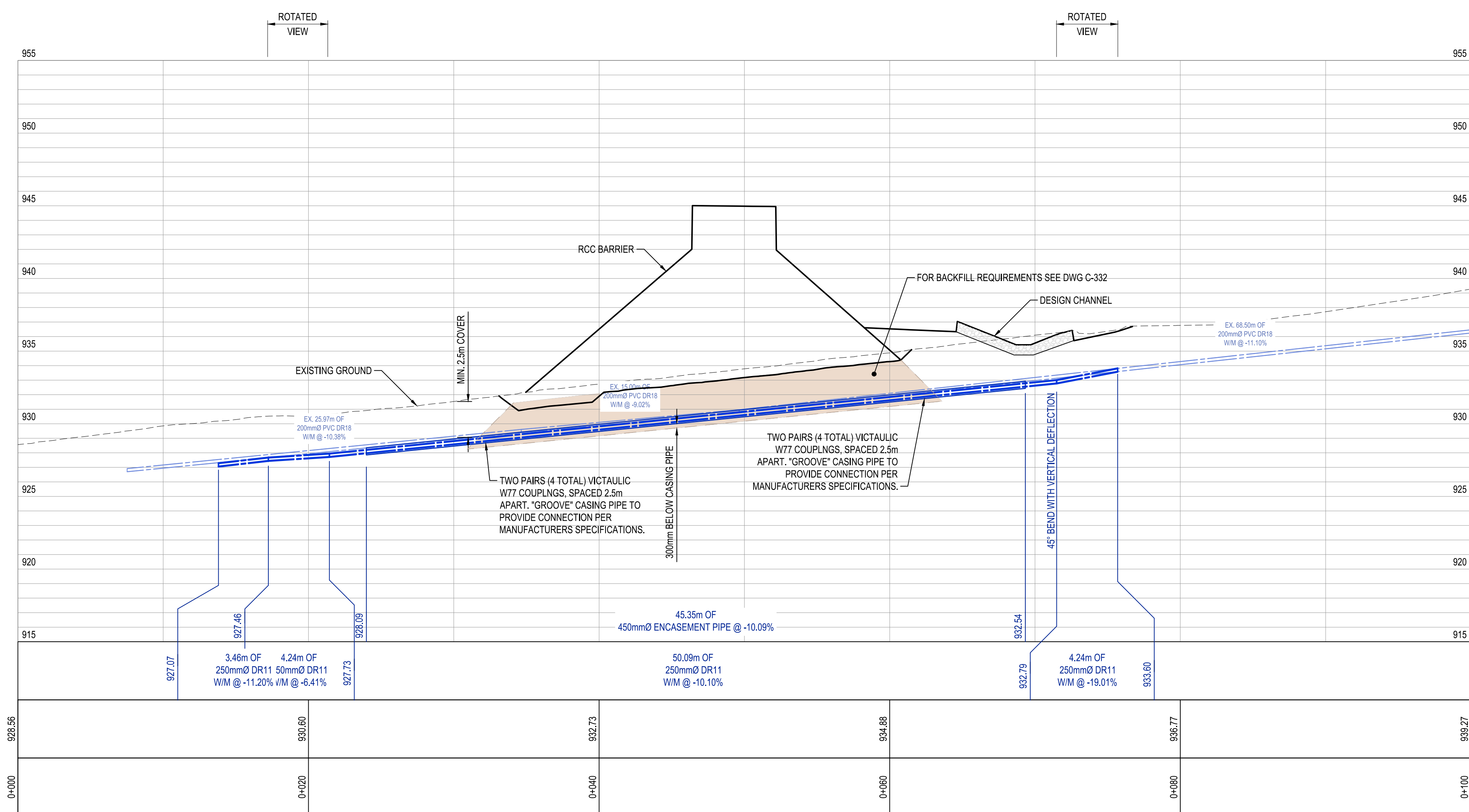
Drawng No. **C-330**

Project Number	Rev.
2441-01186	0



- WATER TIE IN #1 TO EXISTING 200mm PVC WATERMAIN c/w
 1 - PIPE ANCHOR BLOCK ALT. 2 - MMCD DWG #G8 c/w ANCHOR RING
 1 - 200 x 250 HDPE REDUCER
 1 - 200 HDPE FLANGE ADAPTOR c/w BACKUP RING
 1 - 200 FL x MJ GATE VALVE
 1 - 200 DR 18 PVC SPOOL PIECE
 1 - 200 RESTRAINED PVC COUPLING

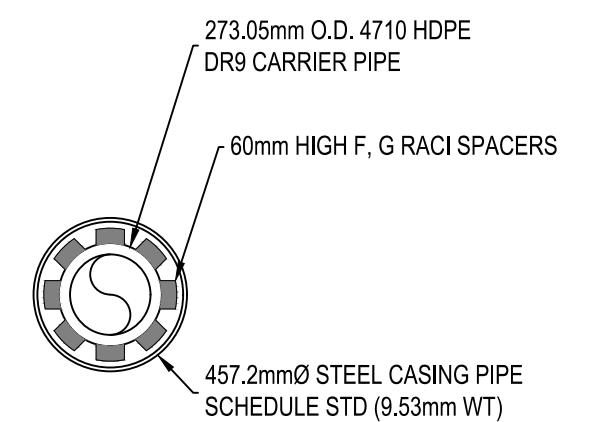
- WATER TIE IN #2 TO EXISTING 200mm PVC WATERMAIN c/w
 1 - PIPE ANCHOR BLOCK ALT. 2 - MMCD DWG #G8 c/w ANCHOR RING
 1 - 200 x 250 HDPE REDUCER
 1 - 200 HDPE FLANGE ADAPTOR c/w BACKUP RING
 1 - 200 DR 18 PVC SPOOL PIECE
 1 - 200 RESTRAINED PVC COUPLING



WATERLINE SPECIFICATIONS

CARRIER PIPE
 MATERIAL - 4710 HDPE DR9
 O.D. - 273.05mm
 W.T. - 30.33mm
 LENGTH - 41.6m
 MAX. OPR. PRESS. - 1724 KPa (250 psi)
 METHOD OF INSTALLATION - PULL THROUGH CASING

CASING PIPE
 TYPE - ASTM A36 CARBON STEEL (SPIRAL NOT ACCEPTED)
 MINIMUM YIELD STRENGTH - 241.0MPa
 O.D. - 457.2mm
 W.T. - 9.53mm
 LENGTH - 36.0m
 CATHODIC PROTECTION - NONE
 METHOD OF INSTALLATION - CONVENTIONAL TRENCH
 ADVANCED PRODUCT SYSTEMS - AC PULL-ON END SEAL - BOTH ENDS



LEGEND:

- EXISTING WATERMAIN (dashed blue line with 'W')
- EXISTING IRRIGATION LINE (dashed green line with 'W')
- PROPOSED WATERMAIN (solid blue line with 'W')
- PROPOSED IRRIGATION LINE (solid green line with 'W')
- PROPOSED WATERMAIN ENCASUREMENT PIPE (solid blue line)

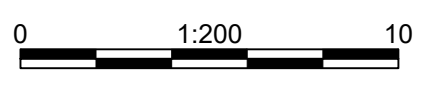
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ORIGINAL DWG SIZE: ANSI D (22" x 34")



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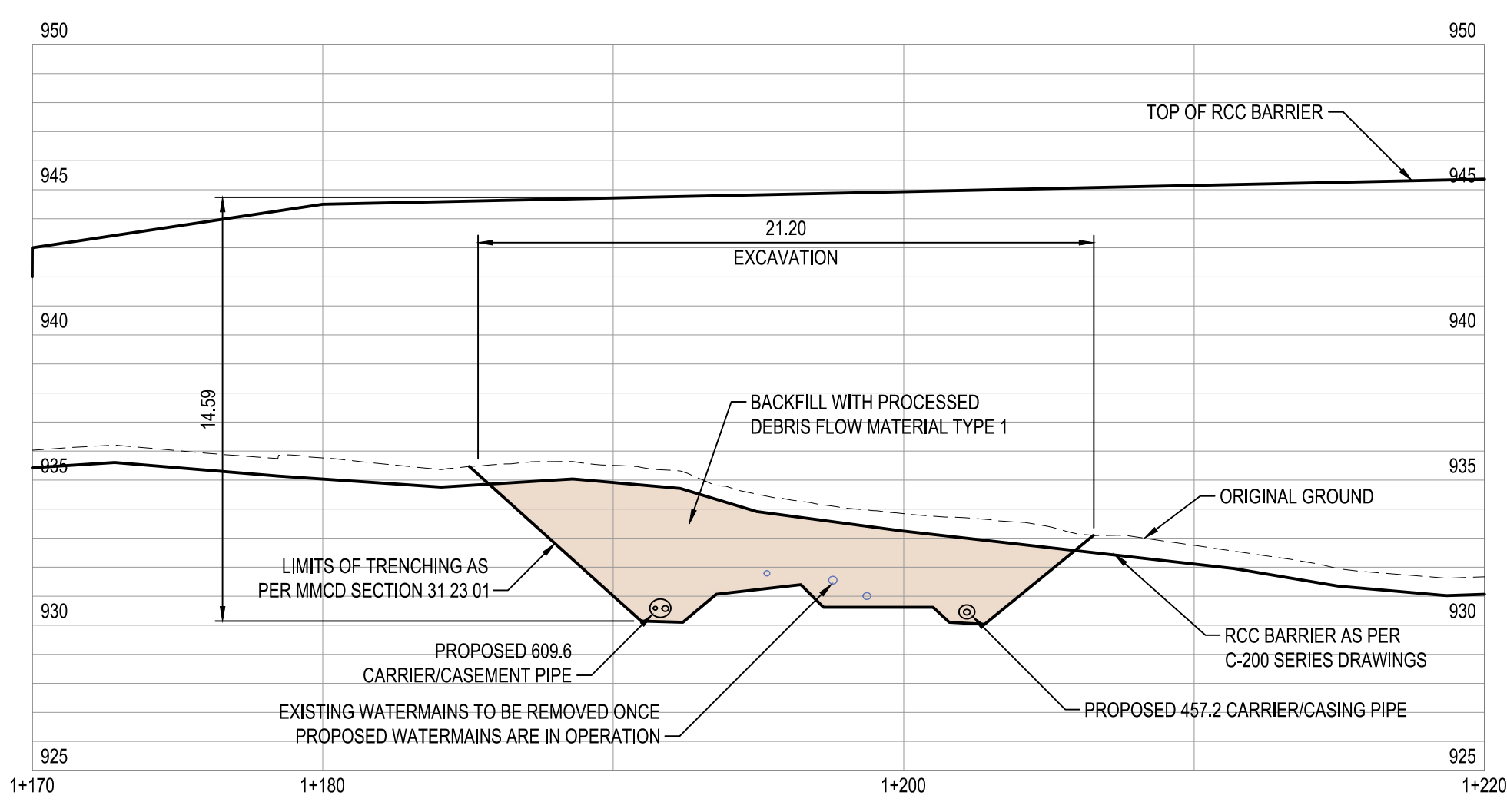
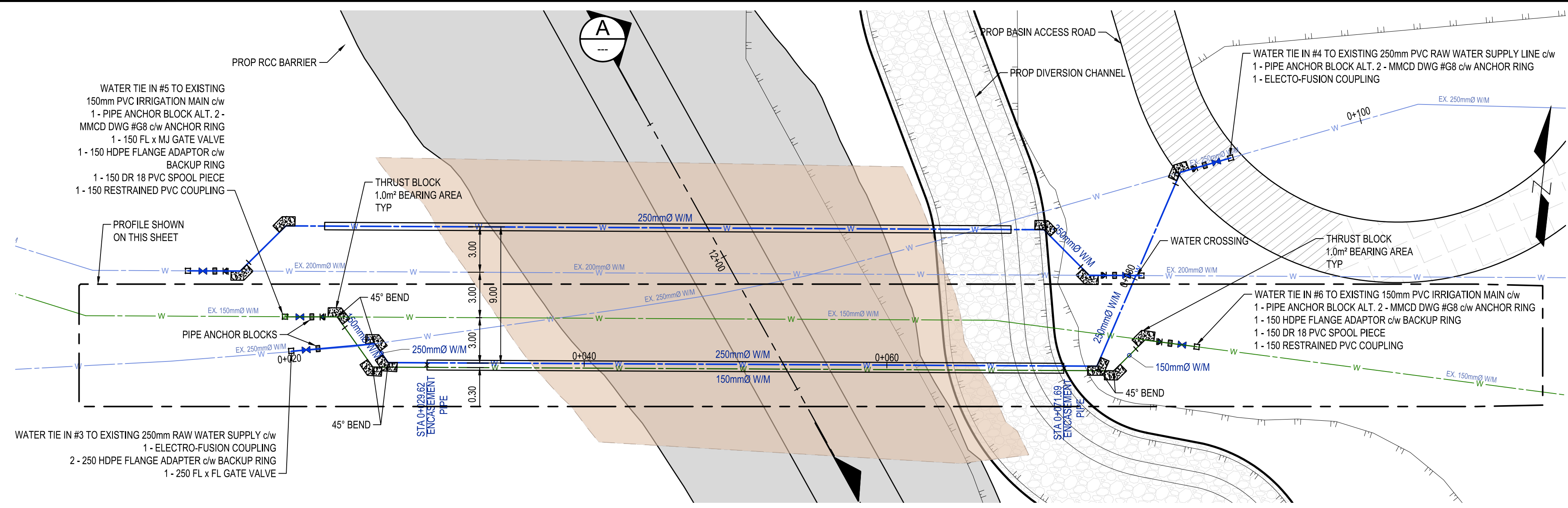
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COLD SPRING CREEK
 DEBRIS FLOW MITIGATION
 WATERMAIN PLAN PROFILE, 1 OF 2

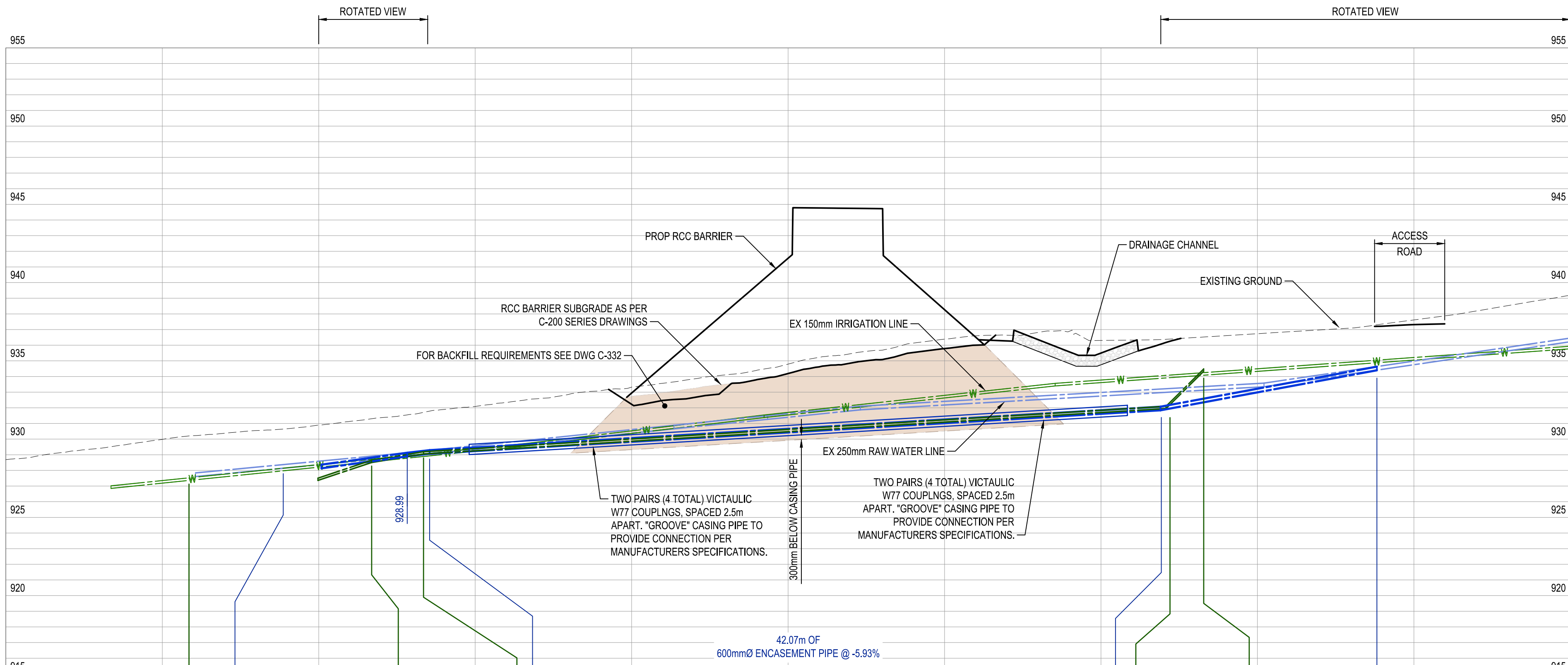
Drawing No.
C-331

Project Number
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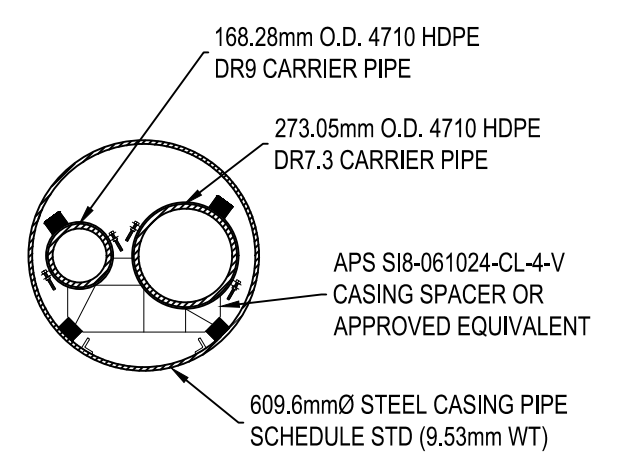
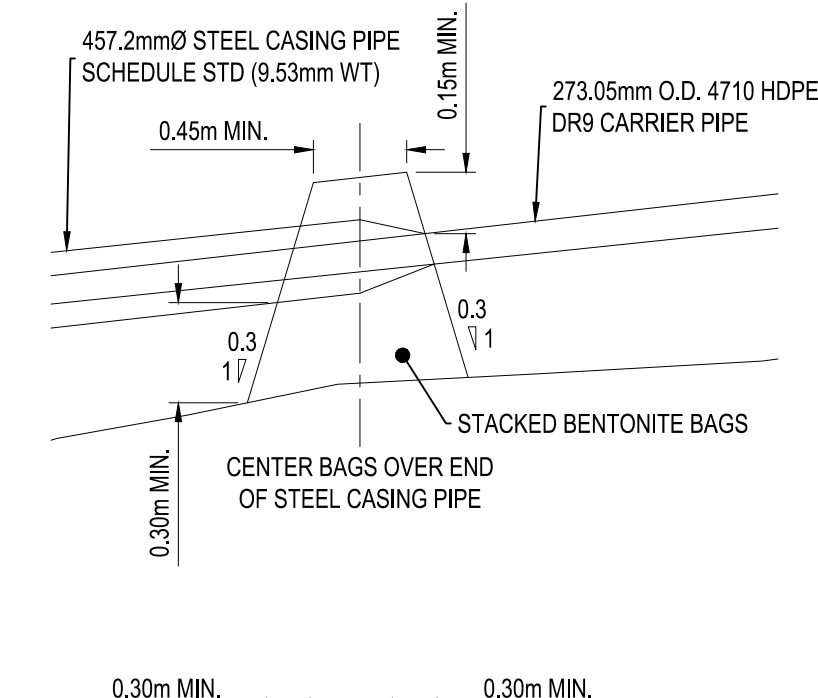
A SECTION ALONG RCC BARRIER CENTERLINE
SCALE 1:200



WATERLINE SPECIFICATIONS

250mmØ CARRIER PIPE MATERIAL - 4710 HDPE DR7.3 O.D. - 273.05mm W.T. - 37.4mm LENGTH - 44.4m MAX. OPR. PRESS. - 2193 KPa (318 psi) METHOD OF INSTALLATION - PULL THROUGH CASING	150mmØ CARRIER PIPE MATERIAL - 4710 HDPE DR9 O.D. - 168.28mm W.T. - 18.69mm LENGTH - 49.0m MAX. OPR. PRESS. - 414 KPa (60 psi) METHOD OF INSTALLATION - PULL THROUGH CASING
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CASING PIPE
TYPE - ASTM A36 CARBON STEEL (SPIRAL NOT ACCEPTED)
MINIMUM YIELD STRENGTH - 241.0MPa
O.D. - 609.6mm
W.T. - 9.53mm
LENGTH - 36.0
CATHODIC PROTECTION - NONE
METHOD OF INSTALLATION - CONVENTIONAL TRENCH
ADVANCED PRODUCT SYSTEMS - AC PULL-ON END SEAL - BOTH ENDS



609.6mmØ CARRIER/CASING PIPE CROSS SECTION
NTS

LEGEND:

EXISTING WATERMAIN	---
EXISTING IRRIGATION LINE	---
PROPOSED WATERMAIN	---
PROPOSED IRRIGATION LINE	---
PROPOSED WATERMAIN ENCASEMENT PIPE	---

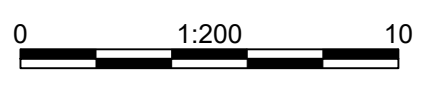
927.37	928.15	928.52	929.06	931.97	934.35	934.42	935
3.45m OF 150mmØ DR17 W/M @ -33.22%	5.54m OF 250mmØ DR7.3 W/M @ -13.76%	4.06m OF 150mmØ DR17 W/M @ -13.38%	1.52m OF 250mmØ DR7.3 W/M @ -10.93%	48.96m OF 150mmØ DR17 W/M @ -5.93%	2.89m OF 150mmØ DR17 W/M @ -82.37%	13.94m OF 250mmØ DR7.3 W/M @ -18.35%	
42.07m OF 600mmØ ENCASEMENT PIPE @ -5.93%							
<p>WATERMAIN INVERTS, LENGTHS, AND GRADES</p> <p>WATERMAIN INVERTS, LENGTHS, AND GRADES</p> <p>ORIGINAL GROUND ELEVATIONS @ CENTERLINE</p> <p>CHAINAGE</p>							

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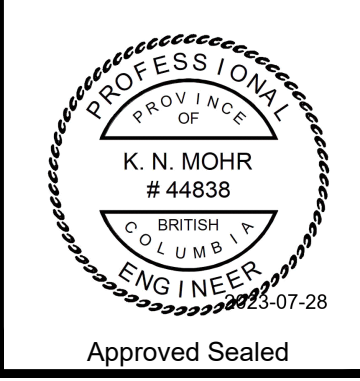
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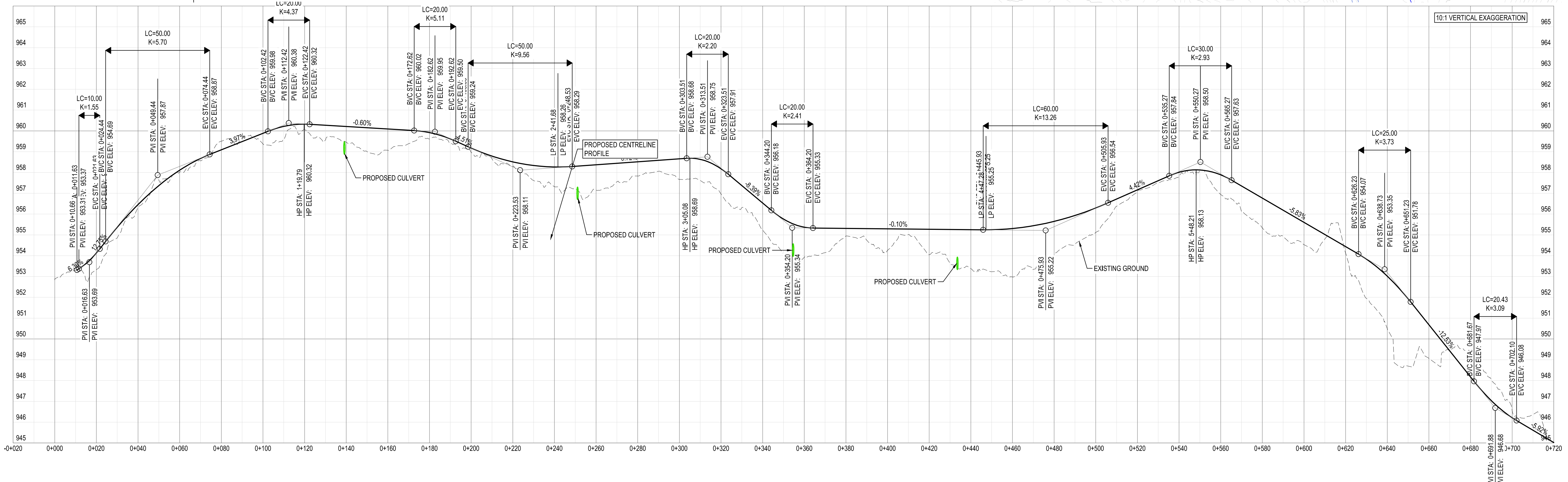
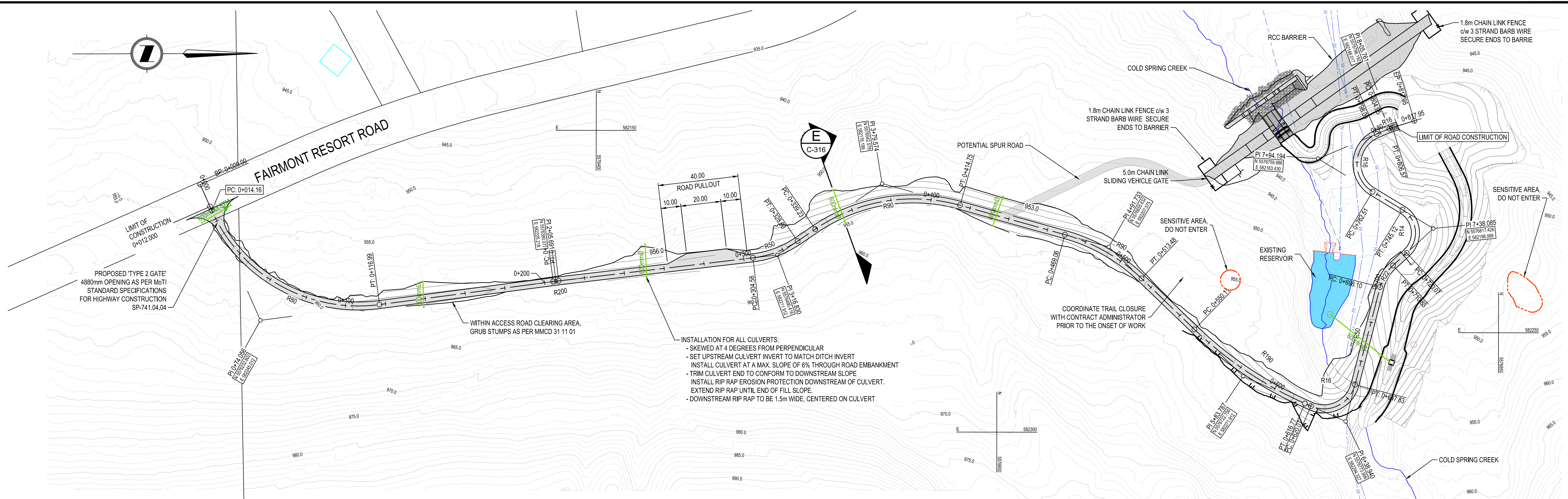
COLD SPRING CREEK DEBRIS FLOW MITIGATION WATERMAIN PLAN PROFILE, 2 OF 2

Drawing No. **C-332**

Project Number 2441-01186

Rev. 0

McElhanney ANS D - 2023-03-14



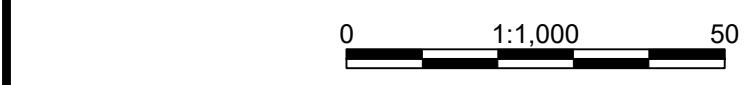
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COLD SPRING CREEK
DEBRIS FLOW MITIGATION
ACCESS ROAD
PLAN PROFILE

Drawing No. **C-340**

Project Number 2441-01186

Rev. 0

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