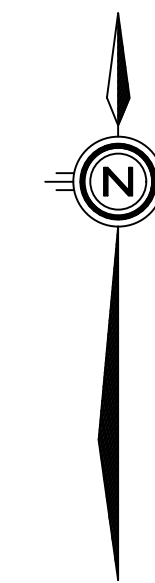


# REGIONAL DISTRICT OF CENTRAL KOOTENAY WEST ROBSON - BROADWATER ROAD CASING PIPES



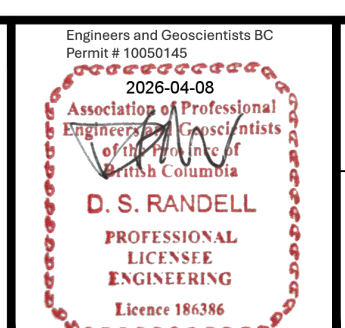
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DATE	REV	DESCRIPTION	BY	APPR.	DATE	REV	DESCRIPTION	BY	APPR.
2026-02-23	A	PRELIMINARY – NOT FOR CONSTRUCTION	ITD	DSR					
2026-04-08	B	ISSUED FOR TENDER	KR	DSR					

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REGIONAL DISTRICT OF CENTRAL KOOTENAY  
WEST ROBSON – BROADWATER ROAD CASING PIPES  
**TITLE SHEET**

REV. No.	B
PROJECT No.	2025-067
DRAWING No.	C000

## GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT THE OWNER TO ARRANGE A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF CONSTRUCTION.
- CONTACT "BC ONE CALL" AT 1-800-474-6886 A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION TO LOCATE ALL EXISTING UTILITIES.
- 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;
  - FLNRO 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.
- 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.
- FIGURED DIMENSION SHALL GOVERN OVER SCALED DIMENSIONS.
- 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.
- 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.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE THE WORKS DONE BY
  - BC HYDRO, TELUS, CABLE AND GAS.
  - OTHER FRANCHISE UTILITIES
- 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.
- 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 CITY.
- THE CONTRACTOR SHALL ENSURE THAT STREETS ARE KEPT CLEAN AND FREE OF EQUIPMENT AND MATERIALS AT ALL TIMES WHEN CONSTRUCTION ACTIVITY IS NOT UNDERWAY.
- A TRAFFIC AND PEDESTRIAN SAFETY CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL BE REGISTERED WITH WORKSAFE BC.

## EARTHWORKS & GRADING

- THE CONTRACTOR SHALL ENSURE ALL CONSTRUCTION ACTIVITIES ARE IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS. WHERE THE GEOTECHNICAL REPORT VARIES FROM THE STANDARD MMCD 2009 (PLATINUM) EDN. SECTION 31 CLAUSES, THE REQUIREMENTS OF THE GEOTECHNICAL REPORT SHALL TAKE PRECEDENCE.
- ALL TESTING OF MATERIALS AND COMPACTION SHALL BE PERFORMED BY A GEOTECHNICAL ENGINEER. PRIOR TO ISSUANCE OF THE SUBSTANTIAL COMPLETION CERTIFICATE, THE SUPERVISING CONSULTING ENGINEER SHALL SUBMIT TO THE CITY A FINAL GEOTECHNICAL REPORT PREPARED BY THE GEOTECHNICAL ENGINEER. COPIES OF REPORTS AND TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS WORK PROGRESSES OR AS REQUESTED.
- GEOTECHNICAL ENGINEER TO REVIEW AND APPROVE EXISTING MATERIAL, TRENCH BACKFILL, AND IMPORTED MATERIAL PRIOR TO PLACEMENT.
- REMOVE VEGETATION, STRIP ORGANIC MATERIAL, AND UNSUITABLE MATERIAL, AS REQUIRED, PRIOR TO PLACING STRUCTURAL FILL.
- COMPACT ALL EARTH FILLS AND GRANULAR MATERIAL LAYERS TO 95% MODIFIED PROCTOR DENSITY (MPD), UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER.
- AREAS SHALL BE GRADED TO +/- 50mm AT NOTED CONTROL POINTS. FINAL GRADING SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A SUBSTANTIAL COMPLETION CERTIFICATE.
- EMBANKMENTS SHALL BE PLACED, SHAPED, COMPACTED, AND PROTECTED TO STANDARDS AND SPECIFICATIONS OF THE GEOTECHNICAL ENGINEER.
- ALL SIEVE, PROCTOR AND DENSITY TEST RESULTS TO BE PROVIDED TO THE ENGINEER OF RECORD.

## EROSION AND SEDIMENT CONTROL

- 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):
  - CLEAR ONLY THE AREAS NECESSARY (LEAVE VEGETATION IN AREAS THAT DON'T REQUIRE DISTURBANCE)
  - ESTABLISH A STABILIZED ENTRY/EXIT POINT
  - PROTECT THE PERIMETER OF THE SITE
  - DIVERT UP-SLOPE WATER AROUND THE WORK SITE (KEEP CLEAN WATER CLEAN)
  - ROUGHEN EXPOSED SOILS
  - TEMPORARILY STABILIZE DISTURBED EARTH
  - CREATE TEMPORARY SEDIMENT DETENTION FACILITIES ONSITE
  - INSTALL INLET PROTECTION MEASURES AT ALL STORM SYSTEM INLETS
  - PLACE SOIL PILES UPSLOPE OF THE PERIMETER PROTECTION AND COVER WITH PLASTIC SHEETING OR EROSION CONTROL BLANKETS
  - DEWATER TO A CONTAINED PART OF THE SITE AND ALLOW IT TO INFILTRATE INTO THE SOIL
  - INSTALL ROOF DOWNPIPES AS SOON AS PRACTICABLE AFTER THE ROOF IS LAID
  - ENSURE THAT ALL CONTROL MEASURES ARE MAINTAINED IN GOOD WORKING ORDER
  - RE-VEGETATE OR OTHERWISE PERMANENTLY STABILIZE THE SITE
- 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.
- 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.

## ROADWORKS

- CONTRACTOR TO ARRANGE FOR REQUIRED TESTING AT LEAST 48 HOURS PRIOR TO COVERING WORKS.
- CHANGES OF GRADE AND DIRECTION SHALL BE FORMED BY SMOOTH VERTICAL AND HORIZONTAL CURVES.
- ALL SUB-BASE ROAD AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO 95% MPD.
- EARTHWORKS, INCLUDING STRIPPING ALL LOOSE OR OTHERWISE DELETERIOUS MATERIALS OR SOFT SPOTS, COMPACTING, AND SLOPE GRADING, SHALL BE COMPLETED TO THE APPROVAL OF A GEOTECHNICAL ENGINEER.
- THE CONDITIONS FOR PLACING ASPHALT PAVEMENT AND CONCRETE SHALL CONFORM WITH THE SPECIFICATIONS DETAILED IN MMCD 2009 (PLATINUM) EDN.
- TIE-INS TO EXISTING PAVEMENT SHALL BE MADE BY CUTTING BACK THE EXISTING PAVEMENT TO SOUND MATERIAL AS NECESSARY TO PRODUCE A NEAT VERTICAL FACE. PRIOR TO PLACING ASPHALTIC CONCRETE, EXPOSED PAVEMENT FACES AND OTHER ABUTTING STRUCTURES SHALL BE TACK COATED WITH ASPHALT EMULSION.
- ALL NEW PAVEMENT SHALL BE GRADED SO THAT NO PONDING FORMS. THE MINIMUM CROSS SLOPE ON ANY NEW OR OVERLAIN ROAD SURFACE SHALL BE 2%, UNLESS OTHERWISE SPECIFIED.
- ALL VALVES BOXES, MANHOLES, ETC., THAT ARE WITHIN THE PAVED SURFACE OF THE ROADWAY SHALL BE SET AT BASE COURSE ELEVATION FOR THE WARRANTY PERIOD, AND ADJUSTED TO FINISHED COURSE ELEVATION PRIOR TO FINISH COURSE PAVING, IF APPLICABLE.

## SANITARY SEWER

- TIE-INS AND CONNECTIONS TO EXISTING SANITARY SEWERS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF THE ENGINEER OF RECORD. A MINIMUM 72 HOURS NOTICE TO BE GIVEN FOR ANY TIE-IN.
- NEW SEWER LINES TIED TO EXISTING LINES SHALL BE PLUGGED UNTIL THEY ARE TESTED AND FLUSHED.
- POWER FLUSHING SHALL BE PERFORMED ON ALL MAINS PRIOR TO ACCEPTANCE. VIDEO TAPE OF ALL MAINS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PLACING IN SERVICE. TESTING AND VIDEO INSPECTION SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE SUPERVISING CONSULTING ENGINEER. VIDEO TAPES AND TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO THE ISSUANCE OF A SUBSTANTIAL COMPLETION CERTIFICATE.
- DELETERIOUS MATERIALS SHALL BE PREVENTED FROM ENTERING THE SEWER SYSTEM.
- TOP OF INSPECTION CHAMBER STANDPIPES SHALL BE SET TO 600mm ABOVE FINAL LOT GRADE.
- MANUFACTURED WYES OR APPROVED ALTERNATIVE SHALL BE USED FOR ALL SERVICE CONNECTIONS TO SANITARY MAINS.
- PROVIDE A MINIMUM 1.5m COVER FOR SANITARY SEWERS.
- ALL PIPE TO BE PVC DR35 OR AS NOTED.

## STORM

- TIE-INS AND CONNECTIONS TO EXISTING STORM SEWERS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF THE ENGINEER OF RECORD, FOLLOWING APPROVAL TO PROCEED FROM THIS CITY. A MINIMUM 72 HOURS NOTICE TO BE GIVEN FOR ANY TIE-IN.
- NEW SEWER LINES TIED TO EXISTING LINES MUST BE PLUGGED UNTIL THEY ARE TESTED AND FLUSHED.
- POWER FLUSHING SHALL BE PERFORMED ON ALL MAINS PRIOR TO ACCEPTANCE. VIDEO TAPE OF ALL MAINS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PLACING IN SERVICE. TESTING AND VIDEO INSPECTION SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE SUPERVISING CONSULTING ENGINEER. VIDEO TAPES AND TEST RESULTS SHALL BE PROVIDED TO THE CITY PRIOR TO THE ISSUANCE OF A SUBSTANTIAL COMPLETION CERTIFICATE.
- DELETERIOUS MATERIALS SHALL BE PREVENTED FROM ENTERING THE SEWER SYSTEM.
- TOP OF INSPECTION CHAMBER STANDPIPES SHALL BE SET TO 600mm ABOVE FINAL LOT GRADE.
- MANUFACTURED WYES OR APPROVED ALTERNATIVE SHALL BE USED FOR ALL SERVICE CONNECTIONS TO STORM MAINS.
- PROVIDE A MINIMUM 1.5m COVER FOR STORM SEWERS.
- ALL NEW DETENTION STRUCTURES, INFILTRATION FACILITIES AND FLOW CONTROL STRUCTURES EG. ORIFICES, GATES, WEIRS TO BE VIDEO TAPED OR PHOTOGRAPHED BY THE CONTRACTOR.
- ALL PIPE TO BE PVC DR35 OR AS NOTED.

## WATER

- PRESSURE TESTING AND CHLORINATION 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.
- 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.
- PROVIDE A MINIMUM 1.8m COVER FOR WATERMANS.
- WATERMANS SHALL BE MARKED BELOW GRADE USING A METALLIC DETECTABLE REINFORCED UNDERGROUND UTILITY MARKING TAPE. THE TAPE SHALL BE MINIMUM 150mm WIDE, METALLIC BLUE IN COLOUR AND SHALL BE MARKED "CAUTION: WATER LINE BURIED BELOW." THE TAPE IS TO BE INSTALLED ON TOP OF THE PIPE CUSHION, A MINIMUM OF 300mm ABOVE THE TOP OF THE PIPE. MARKING TAPE SHALL BE "THORTEC" OR APPROVED EQUAL.
- 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.
- CONTRACTOR SHALL CONDUCT PRESSURE TEST IN ACCORDANCE WITH MMCD SPECIFICATIONS AND IN THE PRESENCE OF THE CIVIL ENGINEER.
- CONTRACTOR TO MAINTAIN ACCESS AND WATER SERVICE TO LOCAL HOUSEHOLDS AND BUSINESSES AT ALL TIMES.
- NEW WATERMANS ARE TO BE PRESSURE TESTED, CHLORINATED AND BACTERIOLOGICALLY ACCEPTED BY INTERIOR HEALTH AUTHORITY PRIOR TO CONNECTION TO THE WATER SYSTEM. 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.
- HEALTH AUTHORITY PERMIT TO CONSTRUCT IS REQUIRED PRIOR TO COMMENCING WORK.
- ALL PIPE TO BE PVC DR18 OR AS NOTED.

### CROSSINGS<sup>6</sup>:

WATERMAIN ABOVE SEWER		≥450mm CLEAR VERTICAL SEPARATION – NO SPECIAL PROTECTION REQUIRED	PREFERRED  NOT GENERALLY ACCEPTED
		1. 150 TO 450mm CLEAR VERTICAL SEPARATION – WATERMAIN JOINTS TO BE PROTECTED <sup>7</sup> – ADDITIONAL BEDDING STRUCTURAL SUPPORT REQUIRED	
WATERMAIN BELOW SEWER <sup>8,9</sup>		2. >450mm CLEAR VERTICAL SEPARATION – BOTH WATERMAIN AND SEWER JOINTS TO BE PROTECTED <sup>7</sup>	
		3. 150 TO 450mm CLEAR VERTICAL SEPARATION – BOTH WATERMAIN AND SEWER JOINTS TO BE PROTECTED <sup>7</sup> – ADDITIONAL BEDDING STRUCTURAL SUPPORT REQUIRED	

- <sup>6</sup>WATERMAIN TO BE LAID ABOVE THE SEWER IF POSSIBLE, WITH THE CENTRE OF THE PIPE LOCATED AT THE CROSSING TO MAXIMIZE THE SEPARATION DISTANCE BETWEEN JOINTS. VERTICAL SEPARATION LESS THAN 150mm NOT ALLOWED.
- <sup>7</sup>DISTANCE FOR PROTECTIVE MEASURES IS MEASURED NORMAL (PERPENDICULAR) TO THE SEWER. SEE TABLE 1 BELOW FOR PRECAUTIONS TO REDUCE THE RISK OF SANITARY AND STORM SEWAGE ENTERING WATERMANS THAT MAY BE CONSIDERED.
- <sup>8</sup>PROVIDE A HYDRAULIC BARRIER IN TRENCH BETWEEN SEWER AND WATERMAIN. BARRIER MUST EXTEND AT LEAST 300mm (1 FOOT) BEYOND OUTER EDGE OF WATERMAIN ON BOTH SIDES.
- <sup>9</sup>NOT APPLICABLE TO SEWER FORCEMANS.

TABLE 1. EXAMPLE PROTECTIVE MEASURES TO BE CONSIDERED (MORE THAN ONE MEASURE MAY BE REQUIRED)

- PROTECT WATERMAIN JOINTS AND SEWER JOINTS WITH SHRINK-WRAP, PETROLATUM TAPE, OR OTHER EQUIVALENT PIPELINE PROTECTION PRODUCTS. FOR EXISTING SEWERS, THE DISTANCE FOR PROTECTIVE MEASURES MAY BE REDUCED TO 1.5m (5 FEET) FROM NEW WATERMAIN TO AVOID EXCESSIVE EXCAVATION (SEE FIGURE 1 BELOW).
- CONSTRUCT SEWER OF EQUIVALENT CLASS PRESSURE PIPE OR REINFORCED CONCRETE PIPE USING FLEXIBLE GASKETS.
- ENCASE EITHER WATERMAIN OR SEWER INSIDE CASING PIPE SLEEVE. THE CASING PIPE MUST BE A MATERIAL THAT IS APPROVED FOR USE AS A WATERMAIN

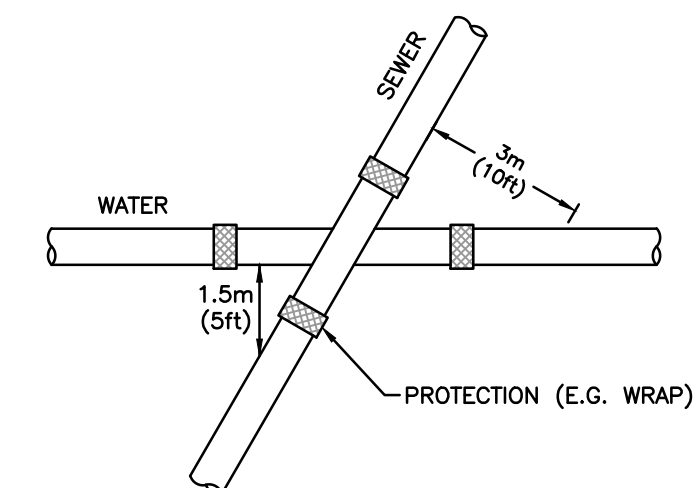


FIGURE 1. JOINT WRAPPING WHERE REQUIRED.

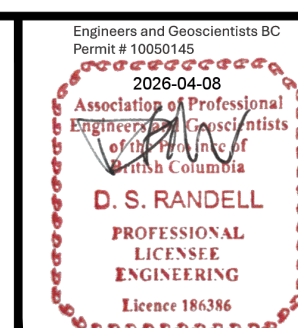
## FRANCHISE UTILITIES

- FRANCHISE UTILITIES INCLUDING BUT NOT LIMITED TO BC HYDRO, TELUS, SHAW, AND FORTIS ARE SHOWN FOR INFORMATION ONLY. REFER TO FRANCHISE UTILITY DRAWINGS SPECIFICATIONS FOR DESIGN AND CONSTRUCTION PURPOSES

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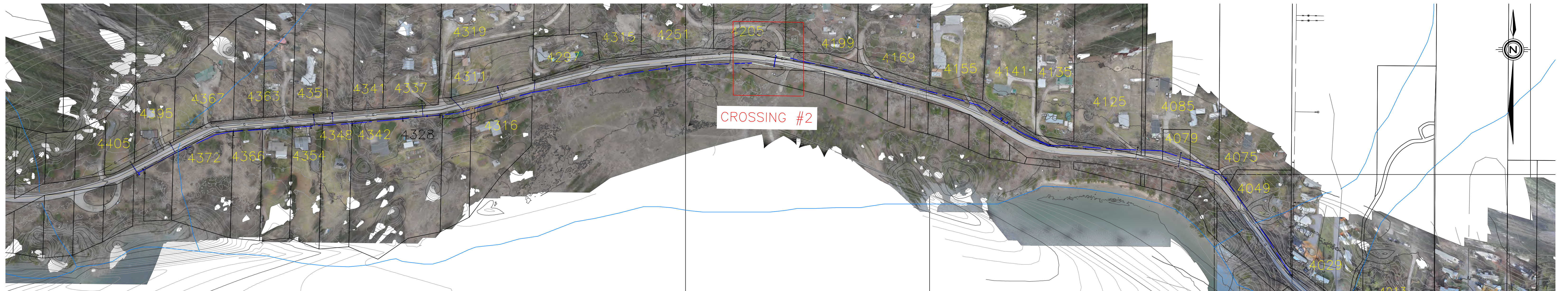
REGIONAL DISTRICT OF CENTRAL KOOTENAY  
WEST ROBSON – BROADWATER ROAD CASING PIPES  
**GENERAL NOTES**

REV. No.	<b>B</b>
PROJECT No.	<b>2025-067</b>
DRAWING No.	<b>C001</b>

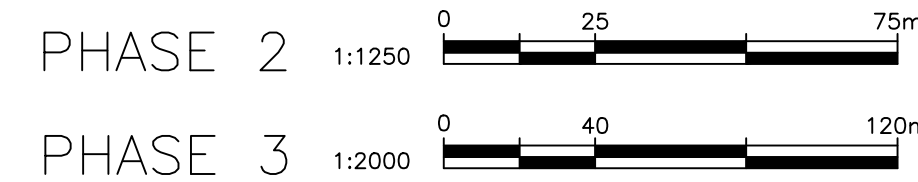
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# PHASE 3

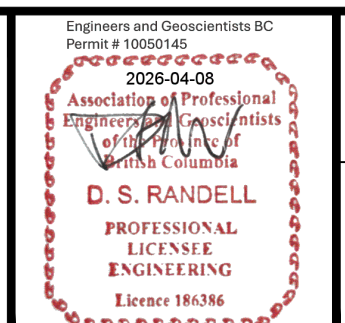


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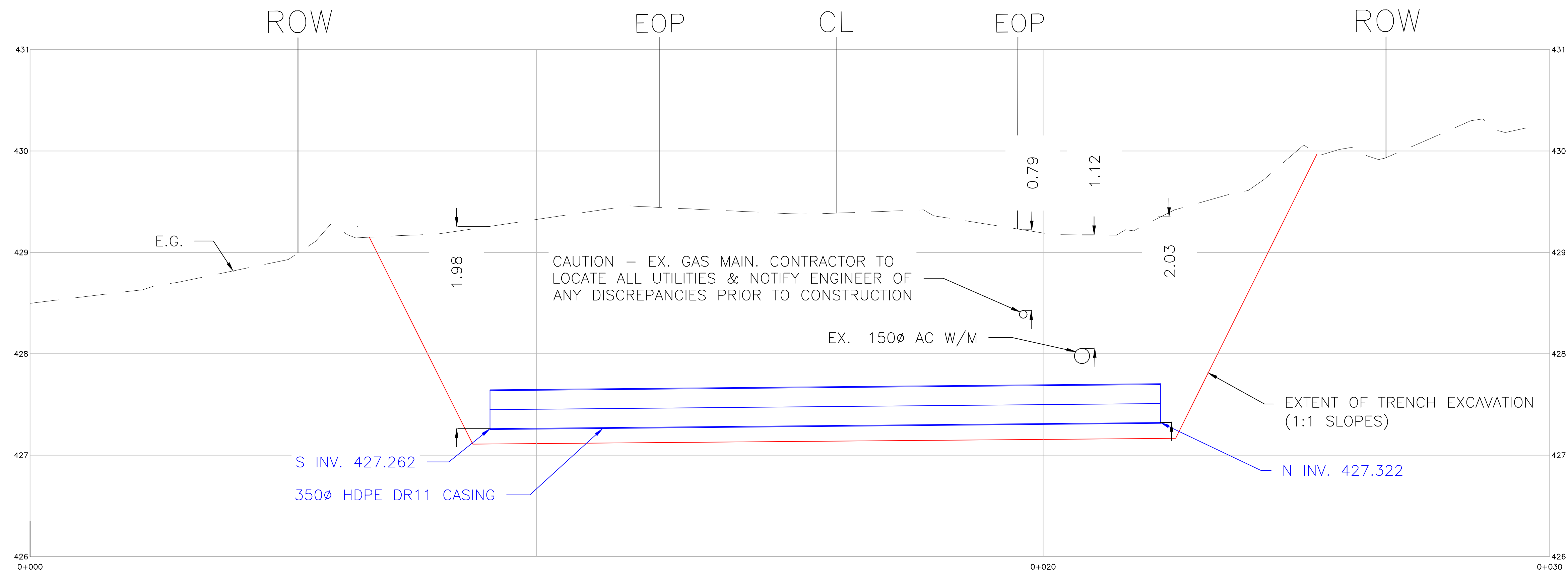
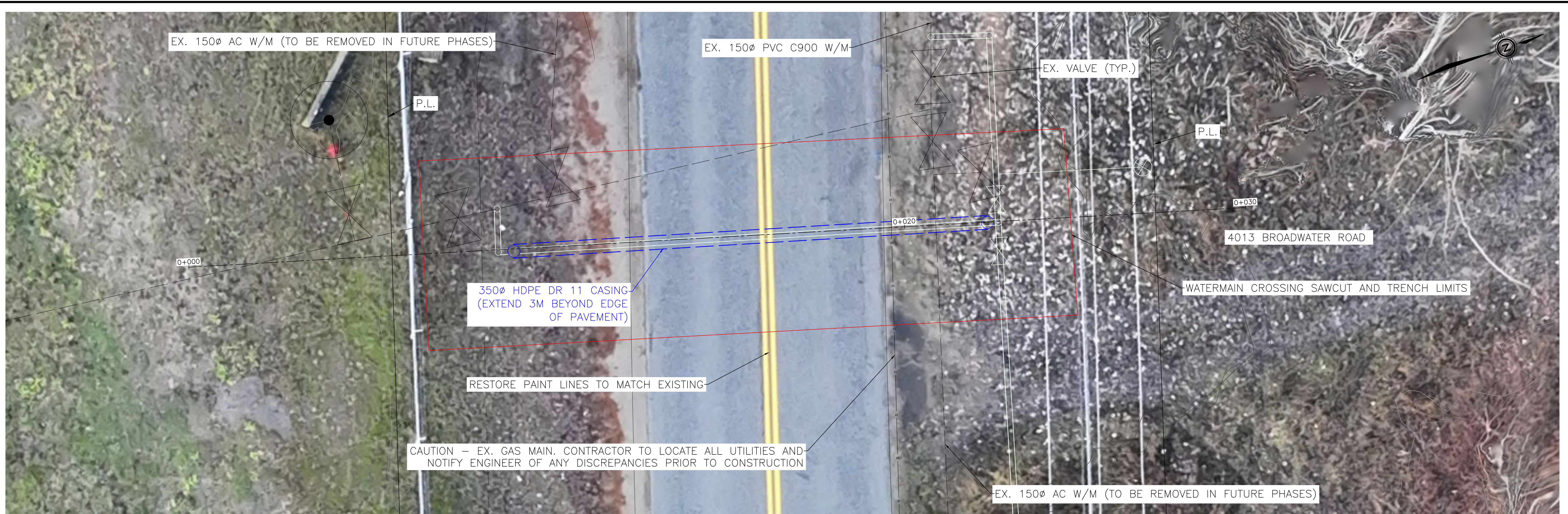
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REGIONAL DISTRICT OF CENTRAL KOOTENAY  
 WEST ROBSON - BROADWATER ROAD CASING PIPES  
**SITE PLAN**

REV. No.	B
PROJECT No.	2025-067
DRAWING No.	C002



**WATERMAIN CROSSING NOTES (MoTT COMPLIANCE):**

ALL WORKS TO CONFORM TO THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE (MoTI) UTILITY POLICY MANUAL AND STANDARD SPECIFICATIONS.

**INSTALLATION & MATERIAL:**

- MINIMUM COVER: 1.50m FROM FINISHED ROAD GRADE TO TOP OF PIPE.
- EXCAVATION: SAW-CUT EXISTING ASPHALT. REMOVE UNSUITABLE MATERIAL AT TRENCH BOTTOM.
- BEDDING: 150mm GRANULAR BEDDING BELOW AND AROUND PIPE TO 300mm ABOVE TOP OF PIPE.
- TRENCH BACKFILL: NATIVE BACKFILL. PLACE IN 300mm MAX LIFTS.
- COMPACTION: 95% SPD BELOW 0.6m DEPTH; 100% SPD IN TOP 0.6m OF SUBGRADE.
- RESTORATION: REPAVE TO MATCH EXISTING ASPHALT THICKNESS (MIN 50mm). PAVEMENT MARKINGS TO MATCH

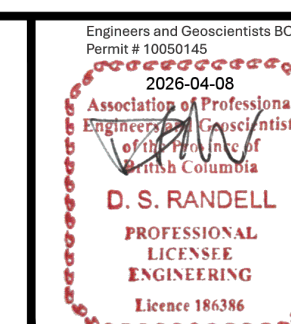
**MARKERS:**

- INSTALL UNDERGROUND WARNING TAPE (DETECTABLE) 300mm ABOVE THE TOP OF THE CASING PIPE.
- INSTALL TRACER WIRE FOR LOCATE OF PIPE USING ELECTRONIC PIPE LOCATION EQUIPMENT.

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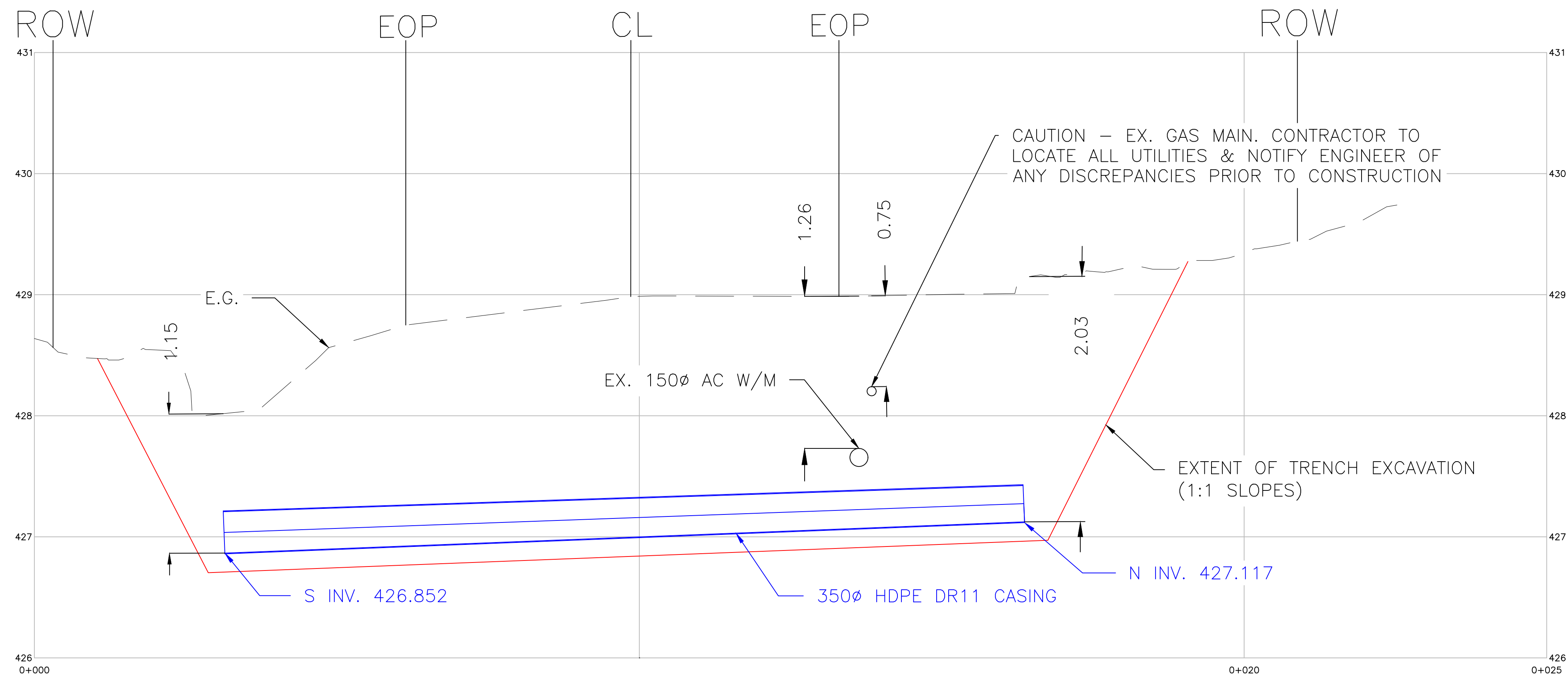
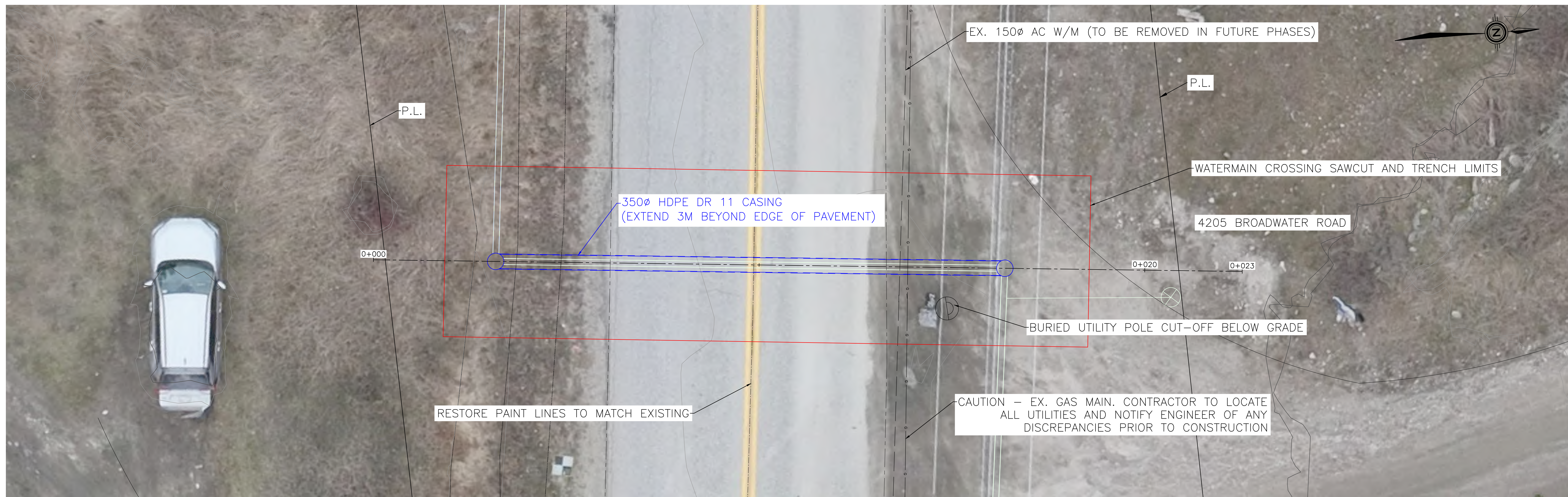
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REGIONAL DISTRICT OF CENTRAL KOOTENAY  
 WEST ROBSON - BROADWATER ROAD CASING PIPES

**CROSSING #1 - PLAN & PROFILE**

REV. No.	C
PROJECT No.	2025-067
DRAWING No.	C003

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**WATERMAIN CROSSING NOTES (MoTT COMPLIANCE):**

ALL WORKS TO CONFORM TO THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE (MoTI) UTILITY POLICY MANUAL AND STANDARD SPECIFICATIONS.

**INSTALLATION & MATERIAL:**

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- EXCAVATION: SAW-CUT EXISTING ASPHALT. REMOVE UNSUITABLE MATERIAL AT TRENCH BOTTOM.
- BEDDING: 150mm GRANULAR BEDDING BELOW AND AROUND PIPE TO 300mm ABOVE TOP OF PIPE.
- TRENCH BACKFILL: NATIVE BACKFILL. PLACE IN 300mm MAX LIFTS.
- COMPACTION: 95% SPD BELOW 0.6m DEPTH; 100% SPD IN TOP 0.6m OF SUBGRADE.
- RESTORATION: REPAVE TO MATCH EXISTING ASPHALT THICKNESS (MIN 50mm). PAVEMENT MARKINGS TO MATCH EXISTING.

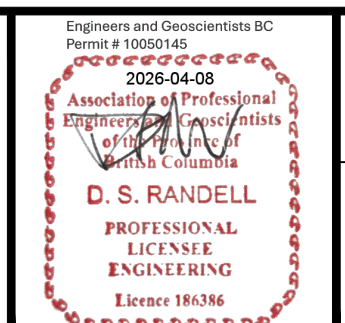
**MARKERS:**

- INSTALL UNDERGROUND WARNING TAPE (DETECTABLE) 300mm ABOVE THE TOP OF THE CASING PIPE.
- INSTALL TRACER WIRE FOR LOCATE OF PIPE USING ELECTRONIC PIPE LOCATION EQUIPMENT.

DATE	REV	DESCRIPTION	BY	APPR.	DATE	REV	DESCRIPTION	BY	APPR.
2026-02-06	A	PRELIMINARY - NOT FOR CONSTRUCTION	ITD	DSR					
2026-02-23	B	PRELIMINARY - NOT FOR CONSTRUCTION	ITD	DSR					
2026-04-08	C	ISSUED FOR TENDER	ITD	DSR					



SCALE AS NOTED  
 DATE -  
 APPROVED DSR  
 DESIGN BY ITD  
 DRAWN BY ITD  
 CHECKED BY DSR



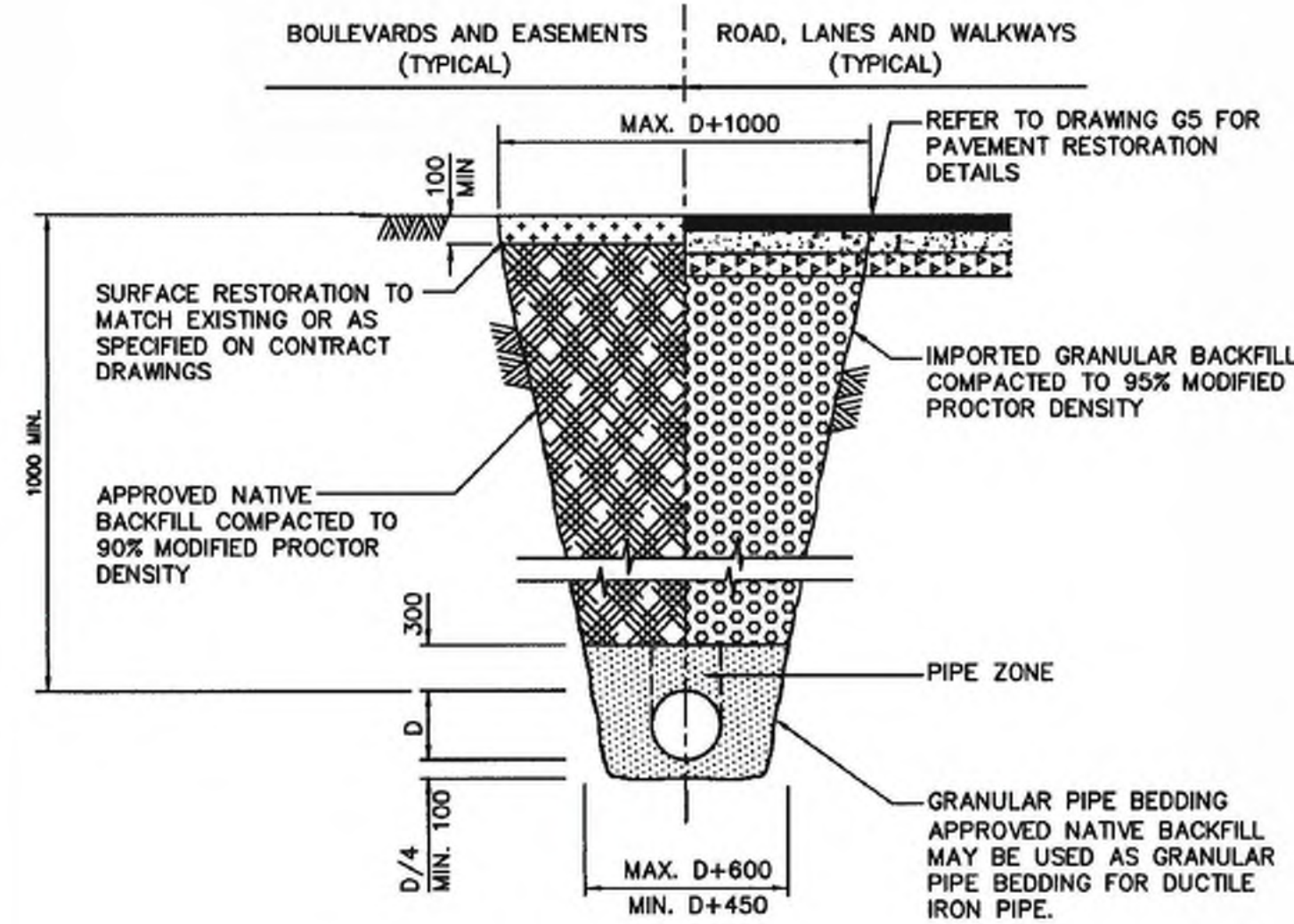
**FUSION** PROJECT MANAGEMENT | CIVIL ENGINEERING  
 INFO@FUSIONCONSULTING.LTD.CA

REGIONAL DISTRICT OF CENTRAL KOOTENAY  
 WEST ROBSON - BROADWATER ROAD CASING PIPES  
**CROSSING #2 - PLAN & PROFILE**

REV. No.	C
PROJECT No.	2025-067
DRAWING No.	C004

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MMCD STANDARD DETAIL DRAWINGS

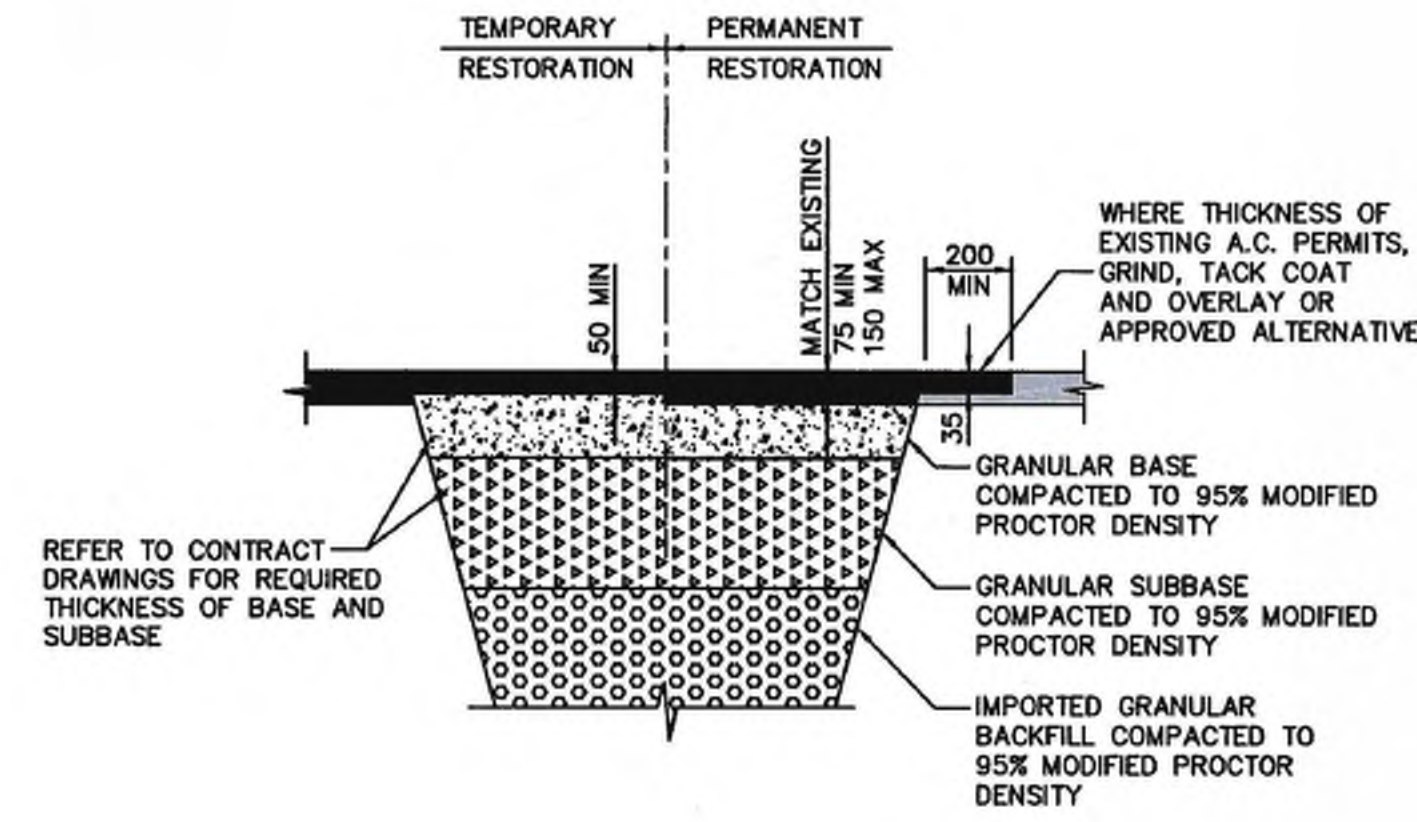


NOTE: 1. TRENCHING TO COMPLY WITH ALL REQUIREMENTS OF WORKSAFE BC.  
 2. REFER TO CONTRACT DRAWINGS, SECTION 31 23 01 FOR DETAILED SPECIFICATIONS.  
 3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.  
 NOT TO SCALE

2019 UTILITY TRENCH

DRAWING NUMBER:  
**G4**

MMCD STANDARD DETAIL DRAWINGS



NOTE: 1. REFER TO CONTRACT DRAWINGS, SECTIONS 31 23 01 AND 32 12 16 FOR DETAILED SPECIFICATIONS.  
 2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.  
 NOT TO SCALE

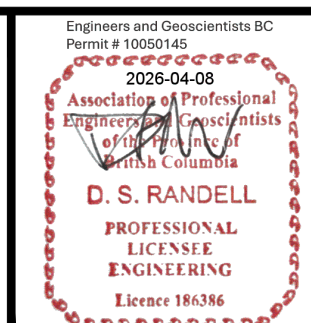
2019 PAVEMENT RESTORATION

DRAWING NUMBER:  
**G5**

DATE	REV	DESCRIPTION	BY	APPR.	DATE	REV	DESCRIPTION	BY	APPR.
2026-02-06	A	PRELIMINARY - NOT FOR CONSTRUCTION	ITD	DSR					
2026-04-08	B	ISSUED FOR TENDER	KR	DSR					

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SCALE AS NOTED  
 DATE -  
 APPROVED DSR  
 DESIGN BY ITD  
 DRAWN BY ITD  
 CHECKED BY DSR



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 REGIONAL DISTRICT OF CENTRAL KOOTENAY  
 WEST ROBSON - BROADWATER ROAD CASING PIPES  
**STANDARD DETAILS**

REV. No. **B**  
 PROJECT No. **2025-067**  
 DRAWING No. **C005**