- 2. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS PRIOR TO COMMENCEMENT OF WORK.
- 3. THE CONTRACTOR SHALL ENSURE ALL PERMITS AND APPROVALS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT CURRENT RELEVANT COPIES OF ALL DRAWINGS AND CONTRACT DOCUMENTS ARE FORWARDED TO SURVEYORS, TESTING AGENCIES, SUBCONTRACTORS, SUPERINTENDENTS, ESTIMATORS, PROJECT MANAGERS, SITE STAFF AND ANY OTHER RELEVANT PARTIES.
- 5. THE CONTRACTOR SHALL CONSTRUCT ALL WORKS TO THE SATISFACTION OF THE ENGINEER AND ANY RELEVANT REGULATORY AUTHORITY. CONTRACTOR TO GIVE TIMELY NOTICE TO RELEVANT INSPECTOR TO ALLOW FOR INSPECTION ON WORKS AND UPDATE ENGINEER ON SAME.
- 6. THE CONTRACTOR SHALL PERFORM AT HIS OWN COST ALL THE TESTING REQUIRED BY THE CONTRACT SPECIFICATIONS AND THE ENGINEER. TESTING SHALL BE DONE BY AN INDEPENDENT SPECIALTY TESTING FIRM. CONTRACTOR TO GIVE THE ENGINEER 72 HOURS NOTICE ON ALL TESTING. COPIES OF TESTS TO BE FORWARDED DIRECTLY TO THE ENGINEER.
- 7. PROPERTY LINES SHOWN ON CONTRACT DRAWINGS ARE APPROXIMATE ONLY. THE 60m HIGHWAY RIGHT-OF-WAY LIMITS FOR HWY 1 ARE BASED ON MACKENZIE VALLEY LAND AND WATER BOARD (MVLWB) LAND USE PERMIT, No MV2023E0012 DATED MAY 31, 2023.
- 8. LOCATIONS OF EXISTING UTILITIES HAVE BEEN COMPILED FROM OWNER AND UTILITY SUPPLIED RECORD DRAWINGS AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SERVICES AND NOTIFY ENGINEER OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS PRIOR TO BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE TO EXISTING UTILITIES TO THE SATISFACTION OF THE ENGINEER AND/OR APPROPRIATE UTILITY OWNER.
- 9. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THERE IS NO DISRUPTION TO SERVICE. IF DISRUPTION IS ANTICIPATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE UTILITY OWNER A MINIMUM OF 72 HOURS PRIOR AND OBTAIN APPROVAL FOR THE DISRUPTION.
- 10. CONTRACTOR SHALL RESTORE ALL AFFECTED SIGNS, UTILITIES, LANDSCAPING AND FEATURES OUTSIDE OF CONSTRUCTION AREAS THAT MAY BE DAMAGED DURING CONSTRUCTION TO ORIGINAL OR BETTER CONDITION AT THEIR COST.
- 11. CONTRACTOR IS RESPONSIBLE FOR HAULING AND PROPER DISPOSAL OF ALL EXCESS MATERIAL UNSUITABLE FOR REUSE OFF SITE TO AN APPROVED DISPOSAL AREA, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND THE CONTRACT DOCUMENTS.
- 12. WHERE NO IMPROVEMENTS ARE PROPOSED UNDER THIS CONTRACT, THE EXISTING SECTION(S) OF ROADWAY SHALL BE KEPT CLEAN AND CLEAR FOR THE DURATION OF CONSTRUCTION AND LEFT IN THE SAME CONDITION AS PRIOR TO CONSTRUCTION.
- 13. CONTRACTOR SHALL KEEP PROPER AS-BUILT INFORMATION DURING CONSTRUCTION. THE CONTRACTOR'S SURVEYOR SHALL RECORD AND CERTIFY ALL INFORMATION REQUIRED TO PROVIDE THE ENGINEER A COMPLETE SET OF AS-BUILT DRAWINGS.
- 14. ALL TRAFFIC CONTROL SHALL CONFORM WITH THE CONTRACT DOCUMENTS AND THE TRANSPORTATION ASSOCIATION OF CANADA "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA" LATEST EDITION. CONTRACTOR SHALL SUBMIT TRAFFIC MANAGEMENT PLAN AND LANE CLOSURE REQUESTS FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- 15. VEHICULAR ACCESS TO EXISTING PROPERTIES SHALL BE MAINTAINED 24 HOURS PER DAY BY THE CONTRACTOR FOR THE DURATION OF THE CONTRACT.
- 16. PEDESTRIANS SHALL BE PROTECTED AT ALL TIMES. ANY CLOSURES OF SHOULDERS, OR LANES TO BE COORDINATED WITH AND APPROVED BY THE ENGINEER. CONTRACTOR TO PROVIDE REQUIRED WRITTEN NOTICES TO RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION AND TO ALL EMERGENCY SERVICES.
- 17. ALL DIMENSIONS AND ELEVATIONS IN METRES UNLESS OTHERWISE NOTED.
- 18. REFER TO CONTRACT SPECIFICATIONS FOR OTHER REQUIREMENTS. IN CASE OF CONFLICTS BETWEEN THIS DRAWING AND CONTRACT SPECIFICATIONS, CONTRACT SPECIFICATIONS WILL PREVAIL.

### **ROADWORKS NOTES:**

- 1. THE CONTRACTOR SHALL GIVE THE ENGINEER 48 HOURS NOTICE PRIOR TO THE SUBGRADE PROOF ROLL, BASE AND SUBBASE COMPACTION, AND PAVING.
- 2. CHANGES IN GRADE TO BE FORMED WITH SMOOTH CURVES.
- 3. ROAD APPROACH CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST GEOTECHNICAL REPORT.
- 4. REFER TO THE LATEST HYDROTECHNICAL REPORT PREPARED BY MATRIX SOLUTIONS INC.
- 5. REFER TO THE LATEST GEOTECHNICAL REPORT PREPARED BY MASKWA ENGINEERING LTD.

### **SURVEY NOTES:**

- 1. COORDINATES ARE UTM ZONE 10N NAD83(CSRS).
- 2. ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM BENCHMARK #1 (ELEVATION = 206.55m)

	BENCHMARK	POINT TABLE	
DESCRIPTION	NORTHING	EASTING	ELEVATION
BM1	6813590.94	593981.66	206.55
ВМ2	6813676.41	593990.85	208.56
WSC 209	6813636.61	593979.31	205.21
WSC 210	6813600.75	593980.07	205.16

3. LOT BOUNDARIES SHOWN HEREON ARE DERIVED FROM TIES TO EXISTING SURVEY EVIDENCE AND CANADA LAND SURVEY RECORDS. LOT BOUNDARIES ARE SUBJECT TO CHANGE UPON LEGAL SURVEY.

### LEGEND

SYMBOLS - PROPOSED SYMBOLS - EXISTING CATCH BASIN CATCH BASIN POWER POLES PROPOSED RETAINING WALL ROAD SIGN ROAD SIGN EDGE OF TREE LINE SURVEY CONTROL POINT HIGH WATER MARK SPILLWAY EDGE OF WATER ASPHALTIC SURFACE MAJOR CONTOUR TREATMENT GRAVEL ACCESS ROAD MINOR CONTOUR FIBRE OPTIC UTILITY VAULT CABLE (BURIED) FIBRE OPTIC CABLE (OVERHEAD) FIBRE OPTIC MARKER LINETYPES - EXISTING LINETYPES - PROPOSED CONTROL LINES EDGE OF PAVED SHOULDER EDGE OF GRAVEL SHOULDER CULVERT DRAINAGE DITCH \_\_\_\_CL & GR CLEARING & GRUBBING 8 8 8 8 8 B GUARDRAIL — x — x — x — TOE LINE HIGHWAY RIGHT OF WAY (R.O.W.) PRE-CAST CONCRETE



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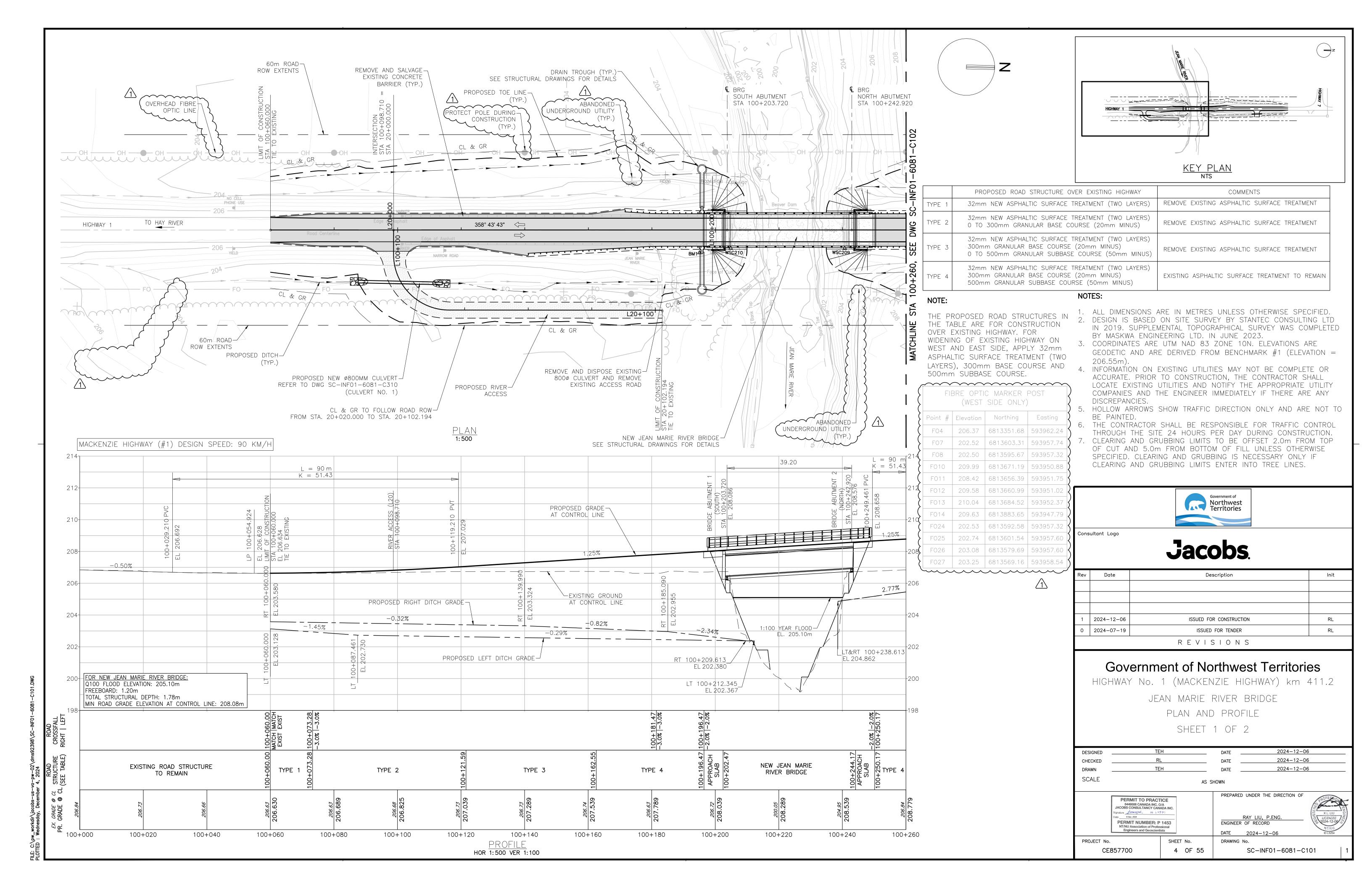
HIGHWAY No. 1 (MACKENZIE HIGHWAY) km 411.2

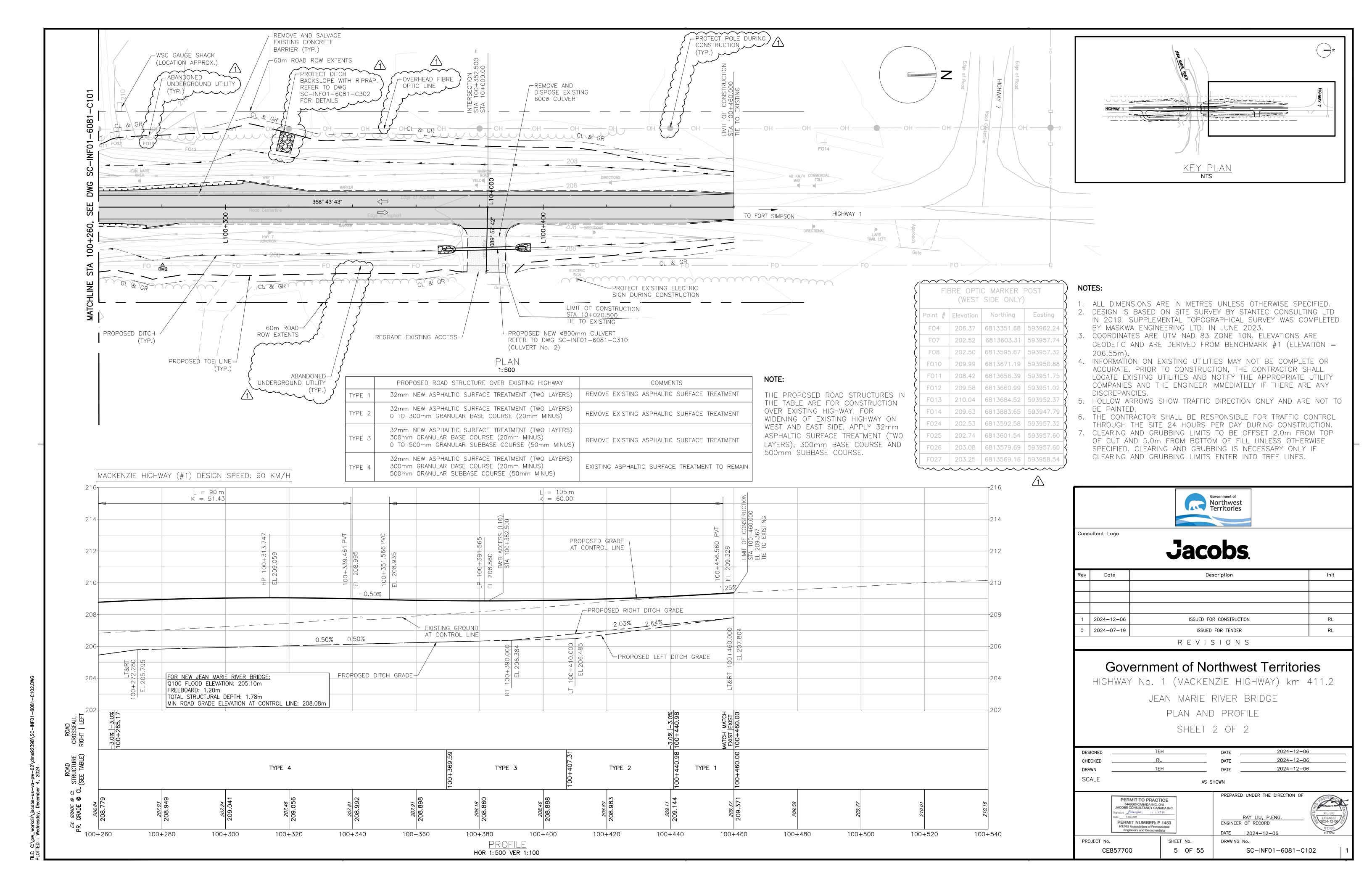
JEAN MARIE RIVER BRIDGE

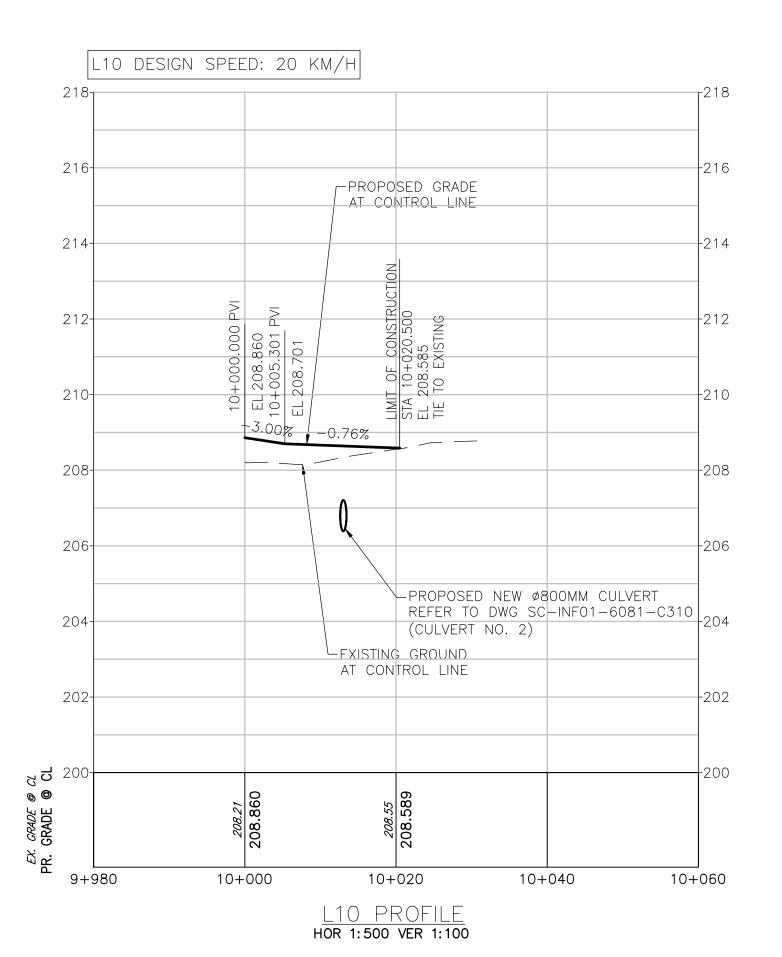
GENERAL NOTES AND LEGEND

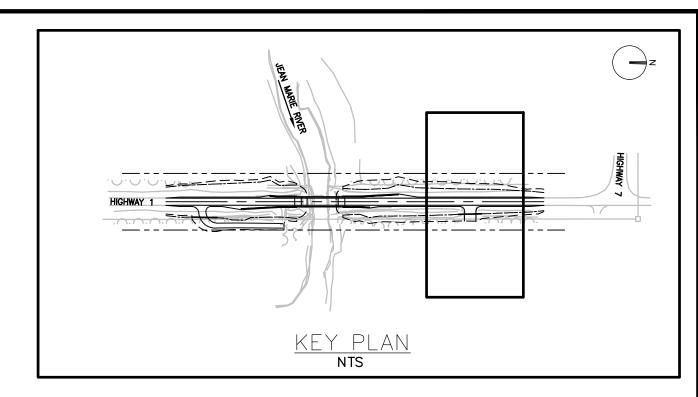
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PROJECT No.	SHEET No.	DRAWING No.
CE857700	3 OF 55	SC-INF01-6081-C001









### NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
   DESIGN IS BASED ON SITE SURVEY BY STANTEC CONSULTING LTD IN 2019. SUPPLEMENTAL TOPOGRAPHICAL SURVEY WAS COMPLETED BY MASKWA ENGINEERING LTD. IN JUNE 2023.
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- 5. HOLLOW ARROWS SHOW TRAFFIC DIRECTION ONLY AND ARE NOT TO BE PAINTED.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL THROUGH THE SITE 24 HOURS PER DAY DURING CONSTRUCTION.
- 7. CLEARING AND GRUBBING LIMITS TO BE OFFSET 2.0m FROM TOP OF CUT AND 5.0m FROM BOTTOM OF FILL UNLESS OTHERWISE SPECIFIED. CLEARING AND GRUBBING IS NECESSARY ONLY IF CLEARING AND GRUBBING LIMITS ENTER INTO TREE LINES.



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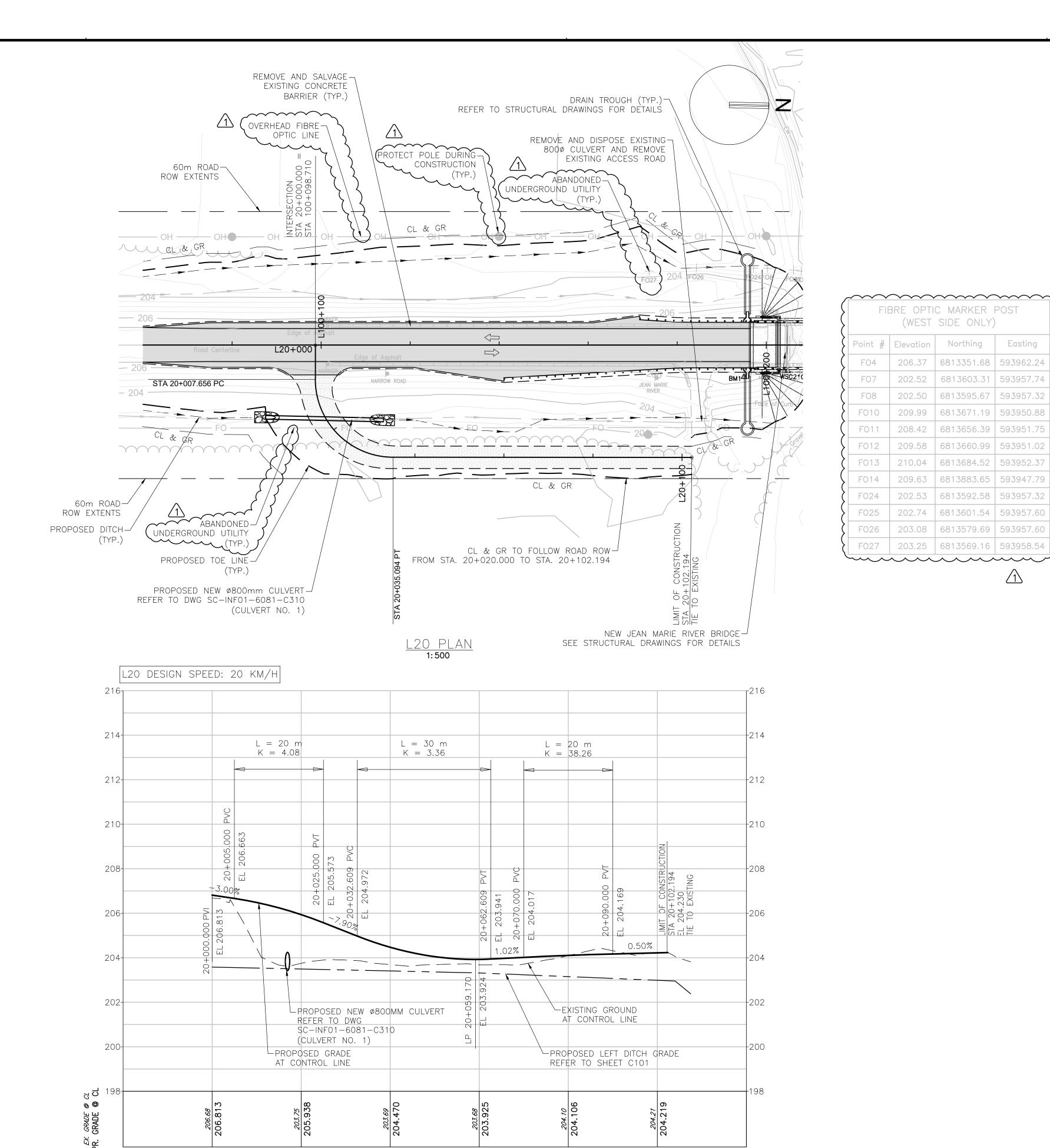
## Government of Northwest Territories

HIGHWAY No. 1 (MACKENZIE HIGHWAY) km 411.2

JEAN MARIE RIVER BRIDGE

L10 PLAN AND PROFILE

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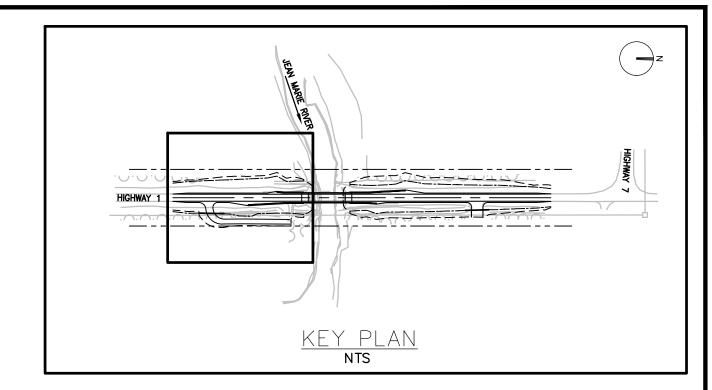
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20+040

20+120

19+980

20+000



### NOTES:

FIBRE OPTIC MARKER POST (WEST SIDE ONLY)

- 1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED. 2. DESIGN IS BASED ON SITE SURVEY BY STANTEC CONSULTING LTD IN 2019. SUPPLEMENTAL TOPOGRAPHICAL SURVEY WAS COMPLETED BY MASKWA ENGINEERING LTD. IN JUNE 2023.
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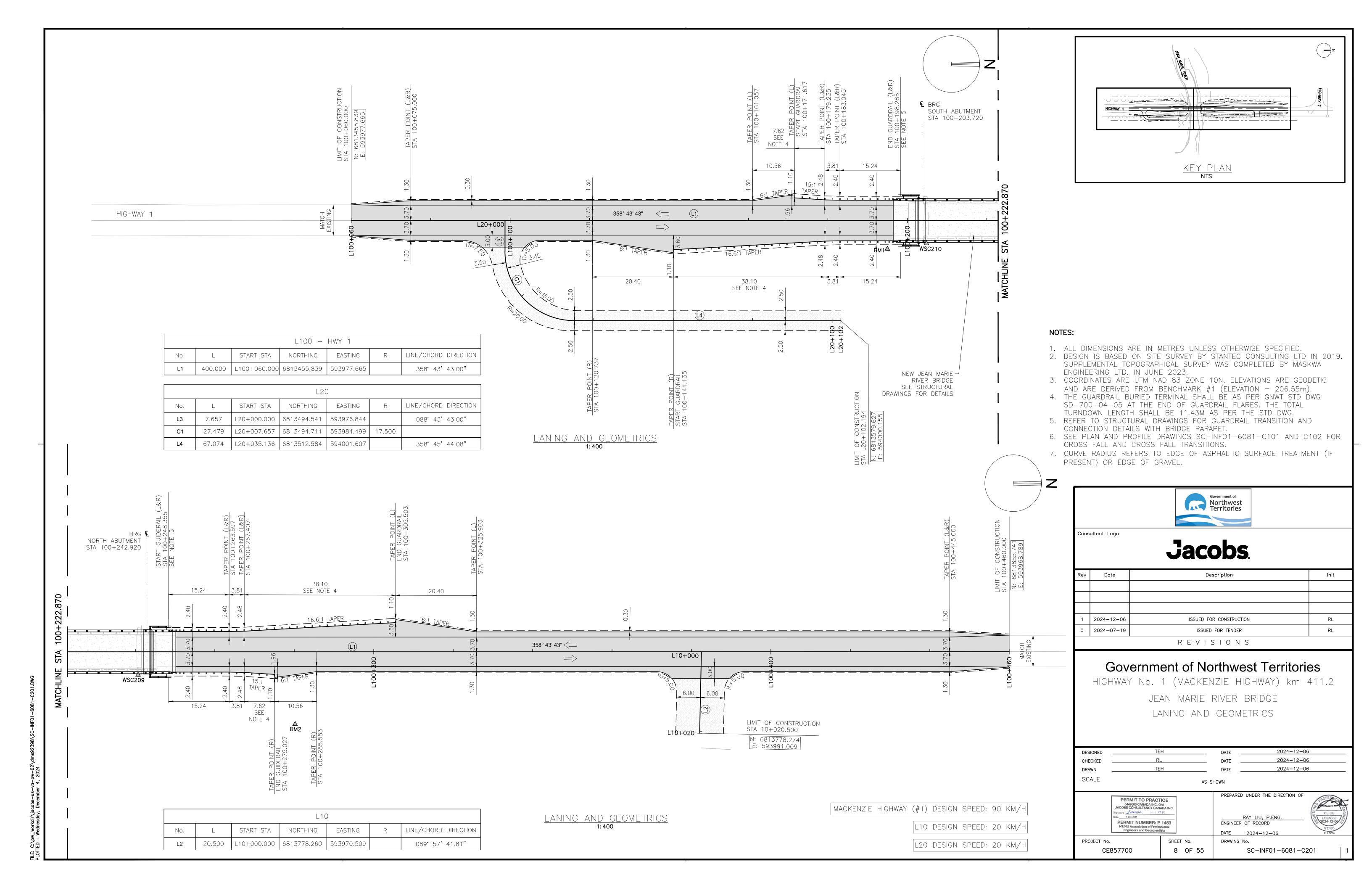
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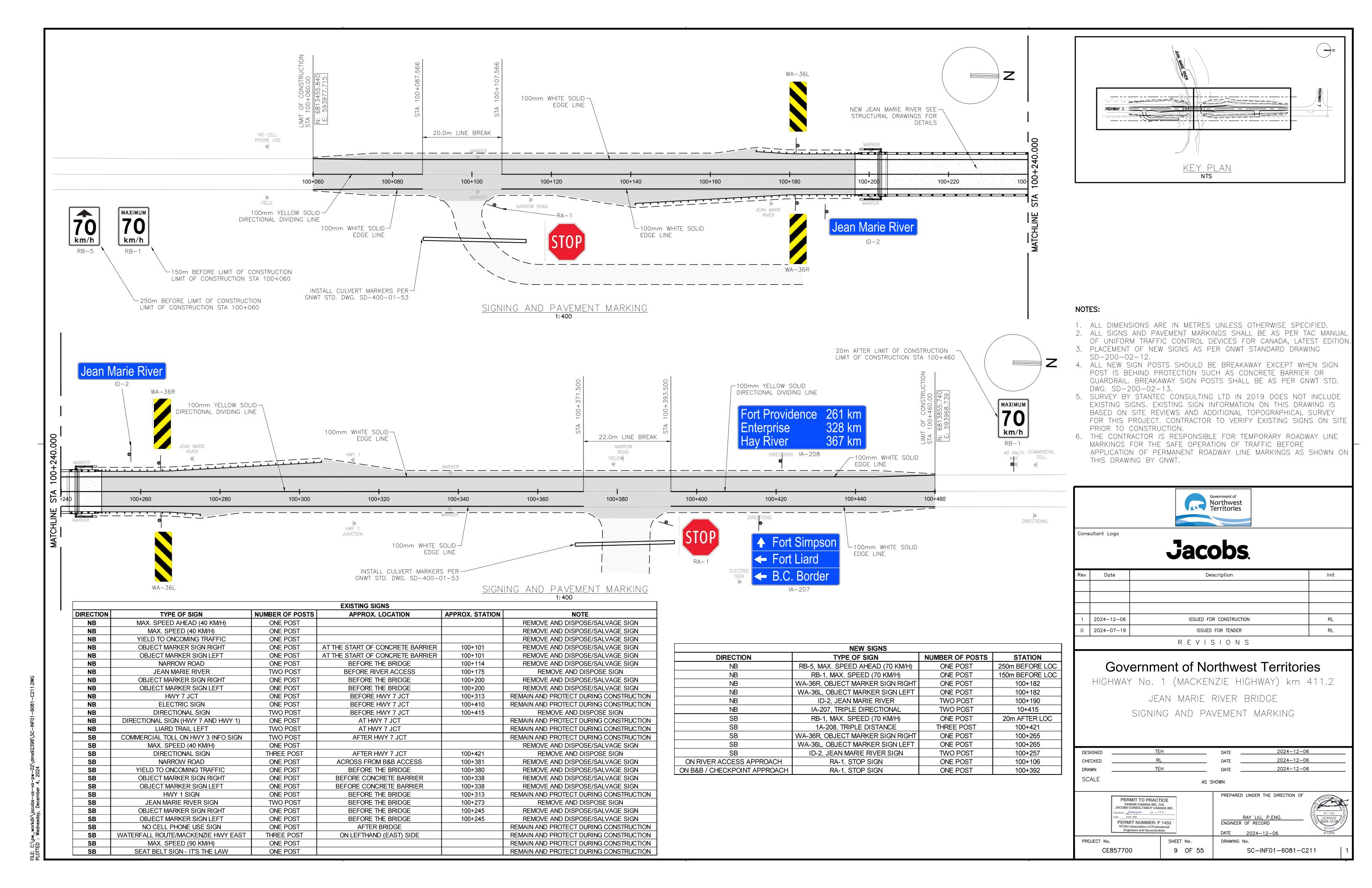
## Government of Northwest Territories

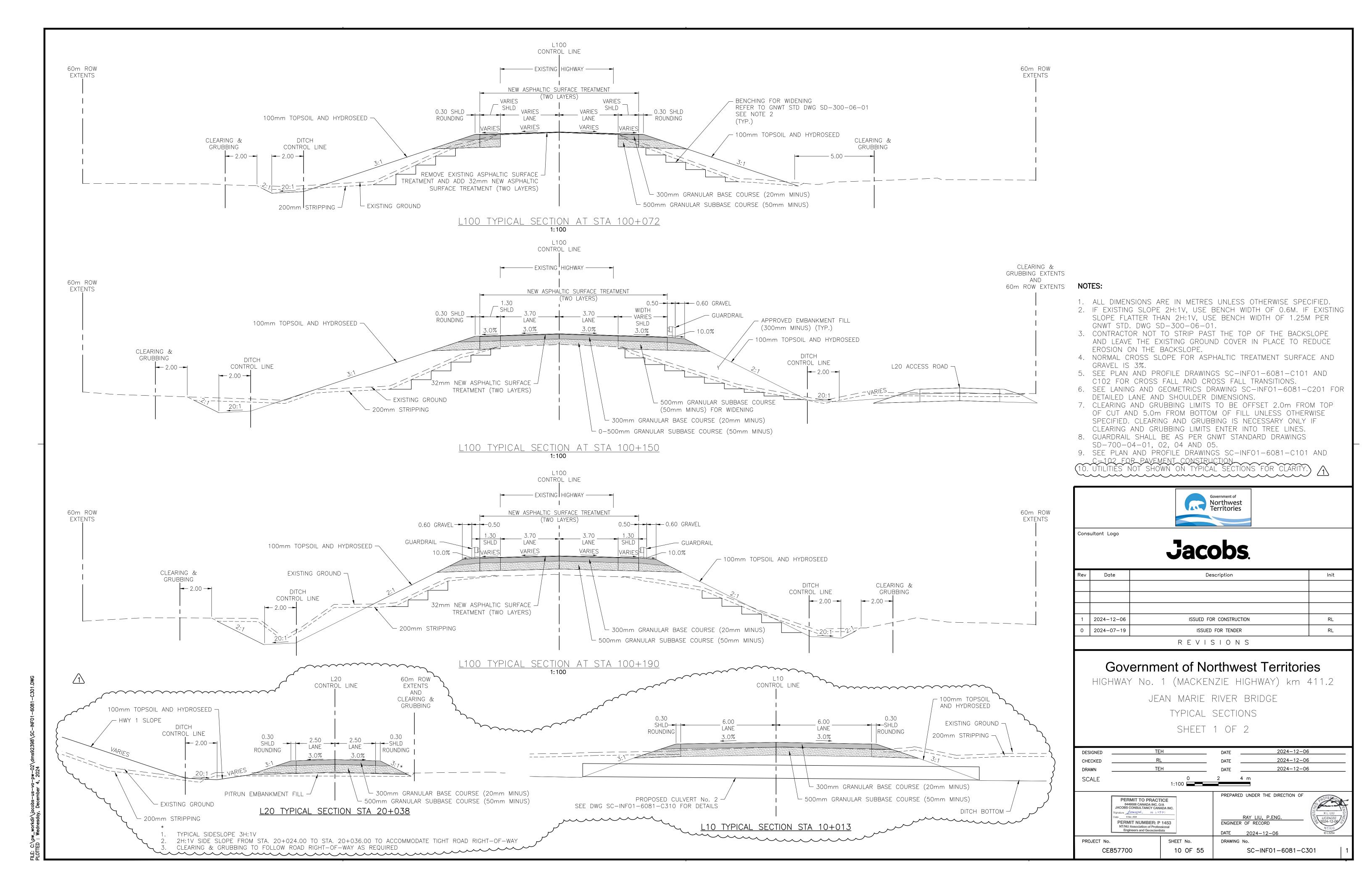
HIGHWAY No. 1 (MACKENZIE HIGHWAY) km 411.2 JEAN MARIE RIVER BRIDGE L20 PLAN AND PROFILE

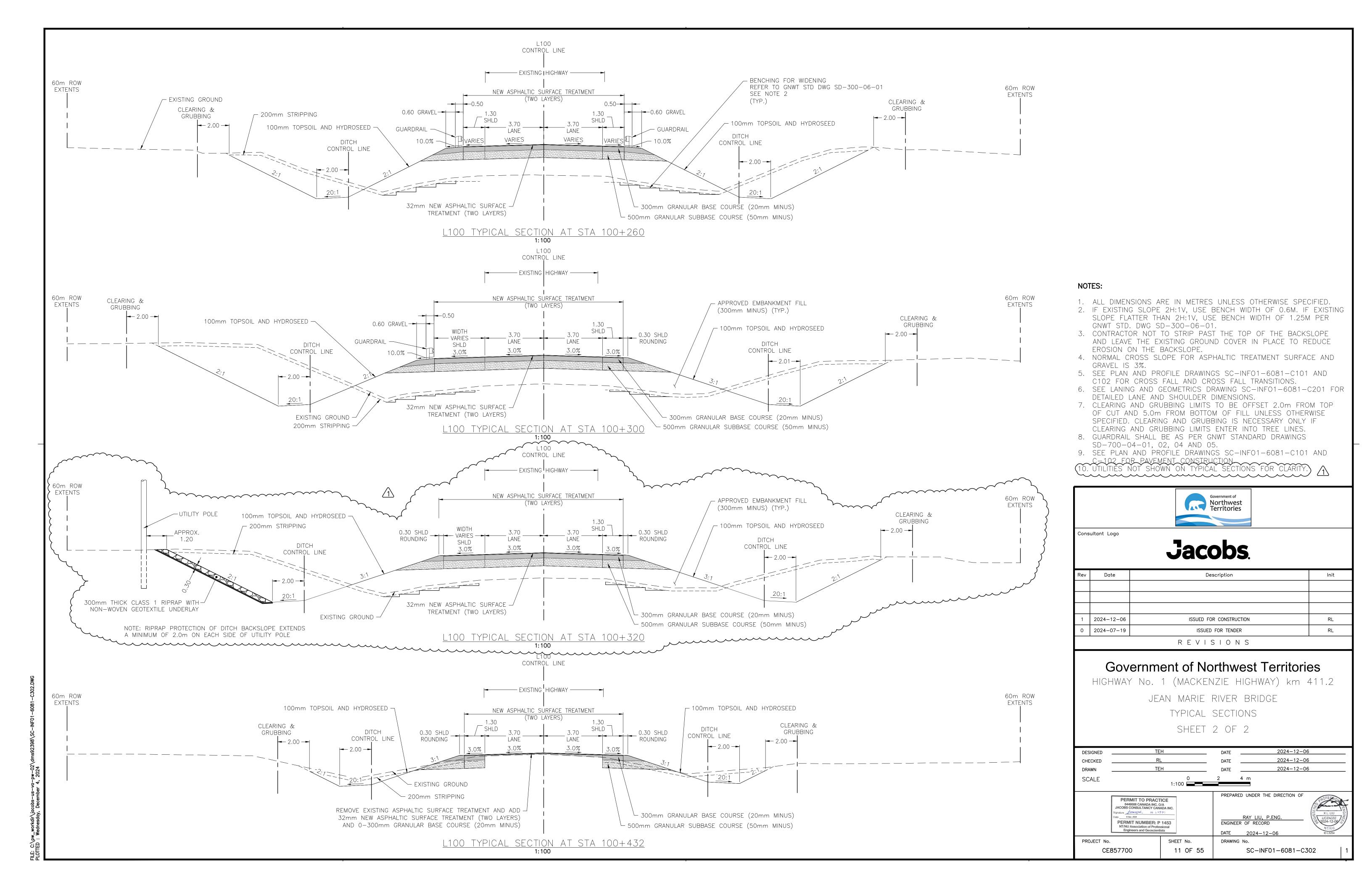
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PROJECT No.	SHEET No.	DRAWING No.	
CE857700	7 OF 55	SC-INF01-6081-C111	1









NOTES:

NORTH

SEE NOTE 2 (TYP.) —

OUTLET

NORTH

INLET —

PROPOSED ACCESS ROAD GRADE —

PROPOSED ACCESS ROAD GRADE -

L20 CONTROL LINE

L20 CULVERT SECTION STA 20+017 (CULVERT #1) (LOOKING EAST)

– 24.963 –

L10

CONTROL LINE

L10 CULVERT SECTION STA 10+013 (CULVERT #2) (LOOKING EAST)
1:100

3 x CSP (D)

REFER TO DWG SC-INFO1-6081-302 FOR DETAILS

FINISHED ROAD GRADE

PROPOSED NEW Ø800 CSP

PROPOSED NEW Ø800 CSP

OUTLET INV = 206.275m

INLET INV = 206.488

L = 24.963m

SLOPE = 0.85%~

INLET INV = 203.509OUTLET INV = 203.336m

L = 25.901mSLOPE = 0.67%

SD-400-01-53.

3. UTILITIES NOT SHOWN ON SECTIONS FOR CLARITY.

 ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 SLOPED CULVERT SECTIONS PER GNWT STD DWG SD-400-01-51. SLOPED END CULVERT MARKER INSTALLATION PER GNWT STD DWG

CULVERT INSTALLATION DETAIL

MAXIMUM OF 150mm LIFTS

MINIMUM BEDDING THICKNESS (300mm)

OR AS DIRECTED BY ENGINEER

-20mm CRUSHED AGGREGATE TO BE USED AS BEDDING AND BACKFILL COMPACTED IN A

-SIDE SLOPES TO BE EXCAVATED AT 1:1 SLOPE

SOUTH

EXISTING GROUND —

SOUTH

— OUTLET

EXISTING GROUND —

NOMINAL MASS: 40KG NOMINAL DIAMETER: 300mm NONE GREATER THAN: 130KG / 450mm 20% TO 50%: 70KG / 350mm 50% TO 80%: 40KG / 300mm 100% GREATER THAN: 10KG / 200mm

DENSITY ACCORDING TO ASTM D698 STANDARD

BASE OF THE EXCAVATION. 4. CSP BEDDING TO BE AT 100% OF MAXIMUM DRY

1. CSP (D) = CORRUGATED STEEL PIPE DIAMETER. 2. AN ENGINEER MUST INSPECT THE EXCAVATION PRIOR

3. A NON-WOVEN GEOTEXTILE SHALL BE USED AT THE

PROCTOR VALUE PRIOR TO INSTALLATION.

EITHER SIDE OF THE CSP IN MAXIMUM LIFTS OF 150mm COMPACTED TO 100% OF THE STANDARD

5. FILL MUST BE BROUGHT UP SIMULTANEOUSLY ON

PROCTOR VALUE.

6. 300mm THICK ROCK APRON TO BE PLACED ON

NON-WOVEN GEOTEXTILE FILTER FABRIC ON EITHER END OF CSP FOR EROSION CONTROL.

7. ROCK APRON TO FOLLOW ROCK RIPRAP CLASS 1.

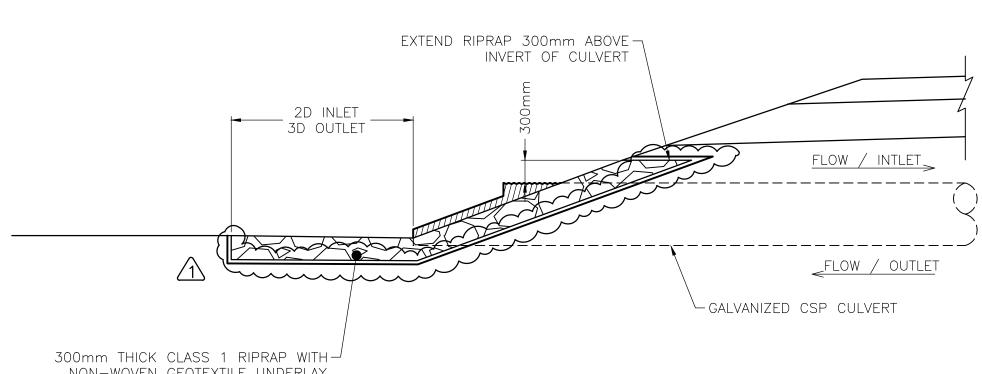
8. GEOTEXTILE TO BE KEYED INTO NATIVE SOIL 300mm.

ROCK RIPRAP CLASS 1:

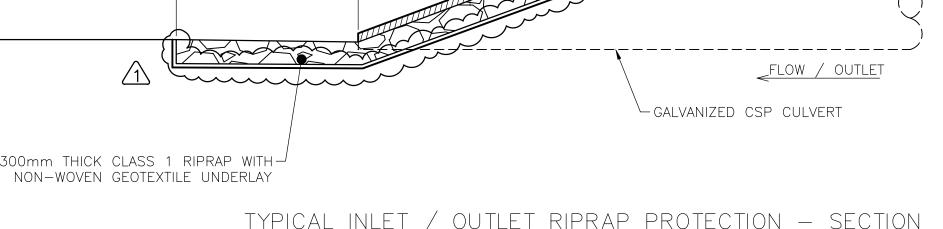
CULVERT INSTALLATION NOTES:

TO BACKFILL.

2D INLET \_\_\_\_\_3D OUTLET -300mm THICK CLASS 1 RIPRAP WITH NON-WOVEN GEOTEXTILE UNDERLAY FLOW / INTLET > FLOW / OUTLET GALVANIZED CSP CULVERT TOE OF SLOPE TYPICAL INLET / OUTLET RIPRAP PROTECTION — PLAN



TYPICAL INLET / OUTLET RIPRAP PROTECTION — SECTION



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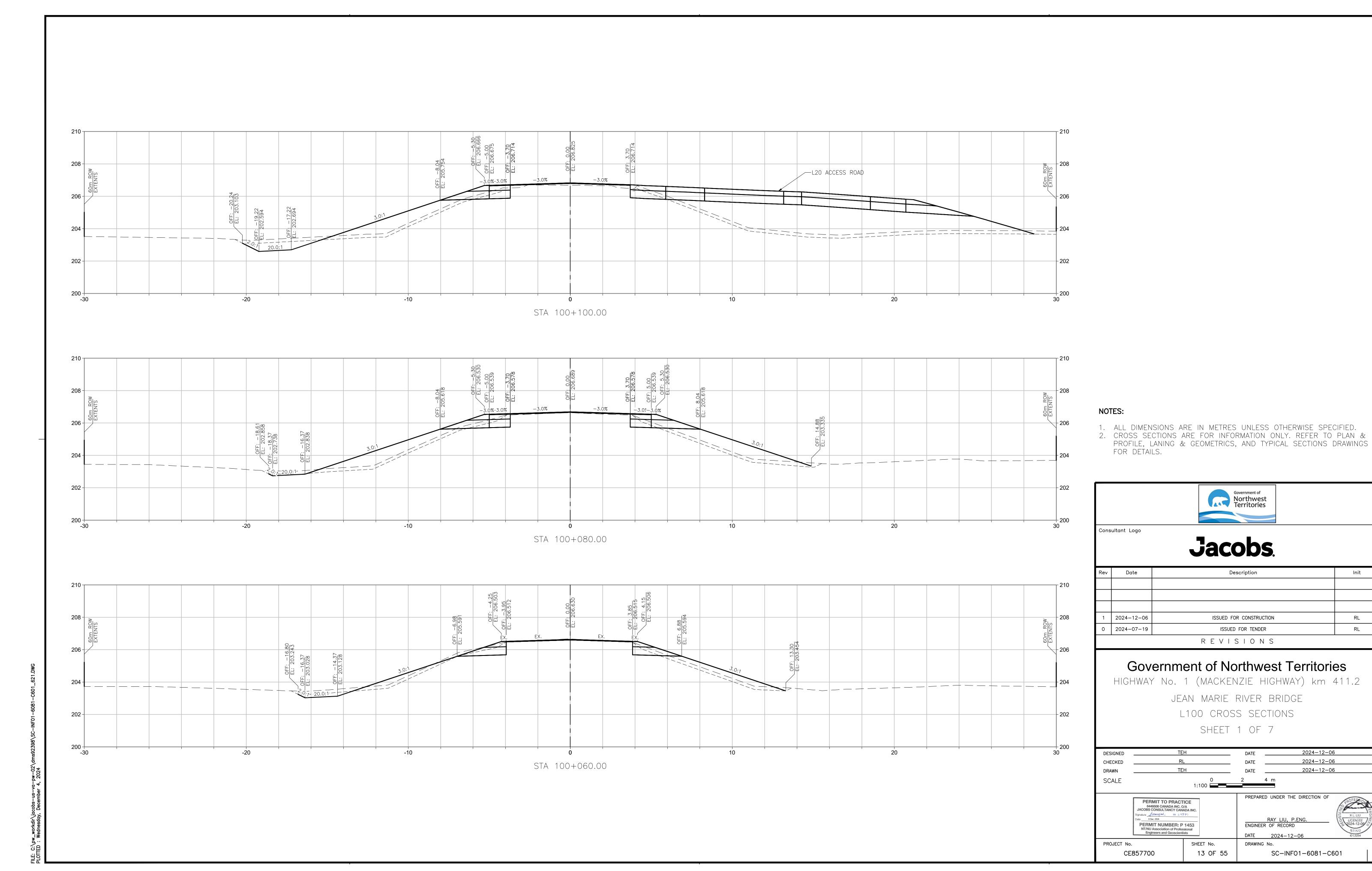
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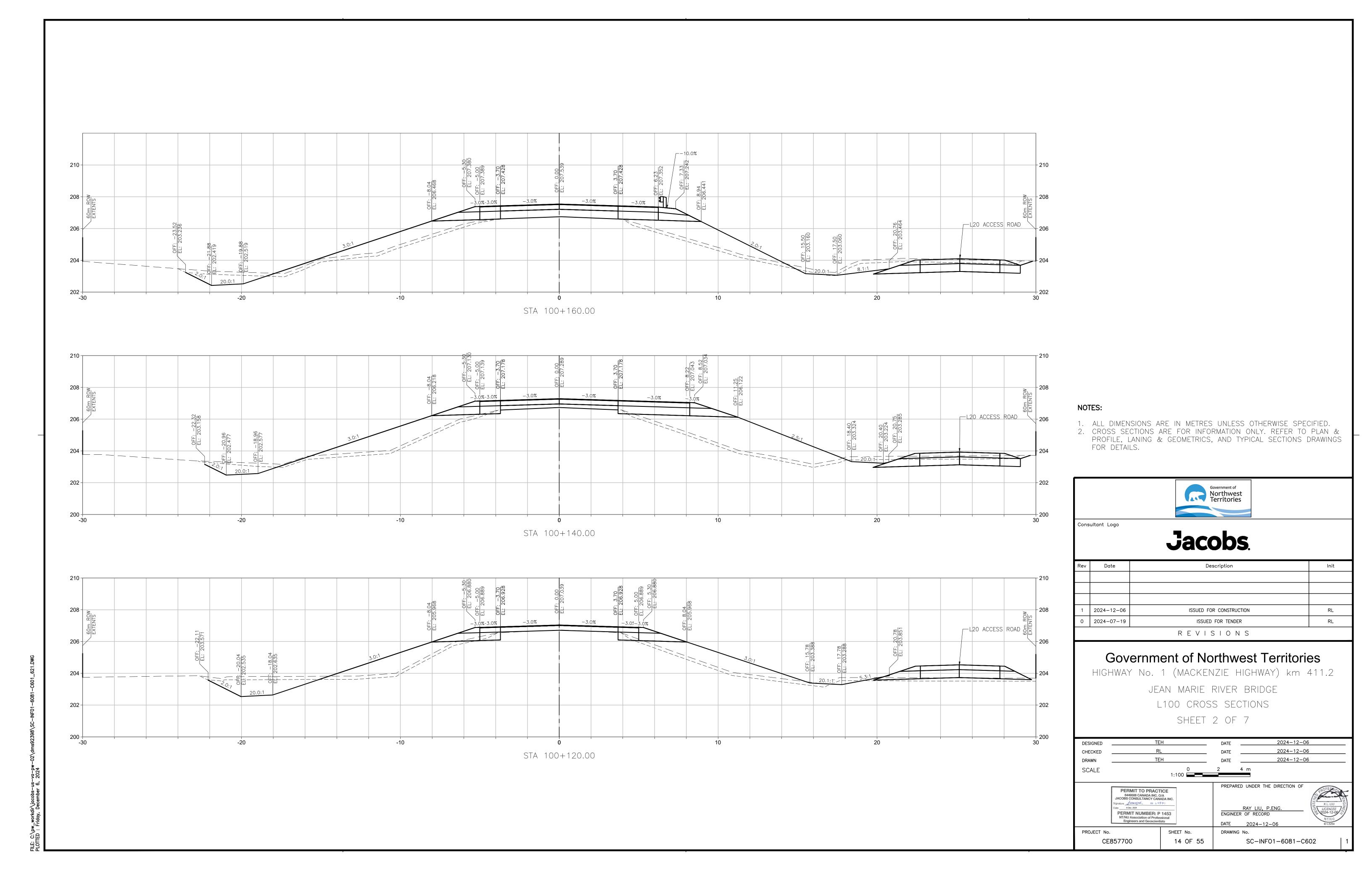
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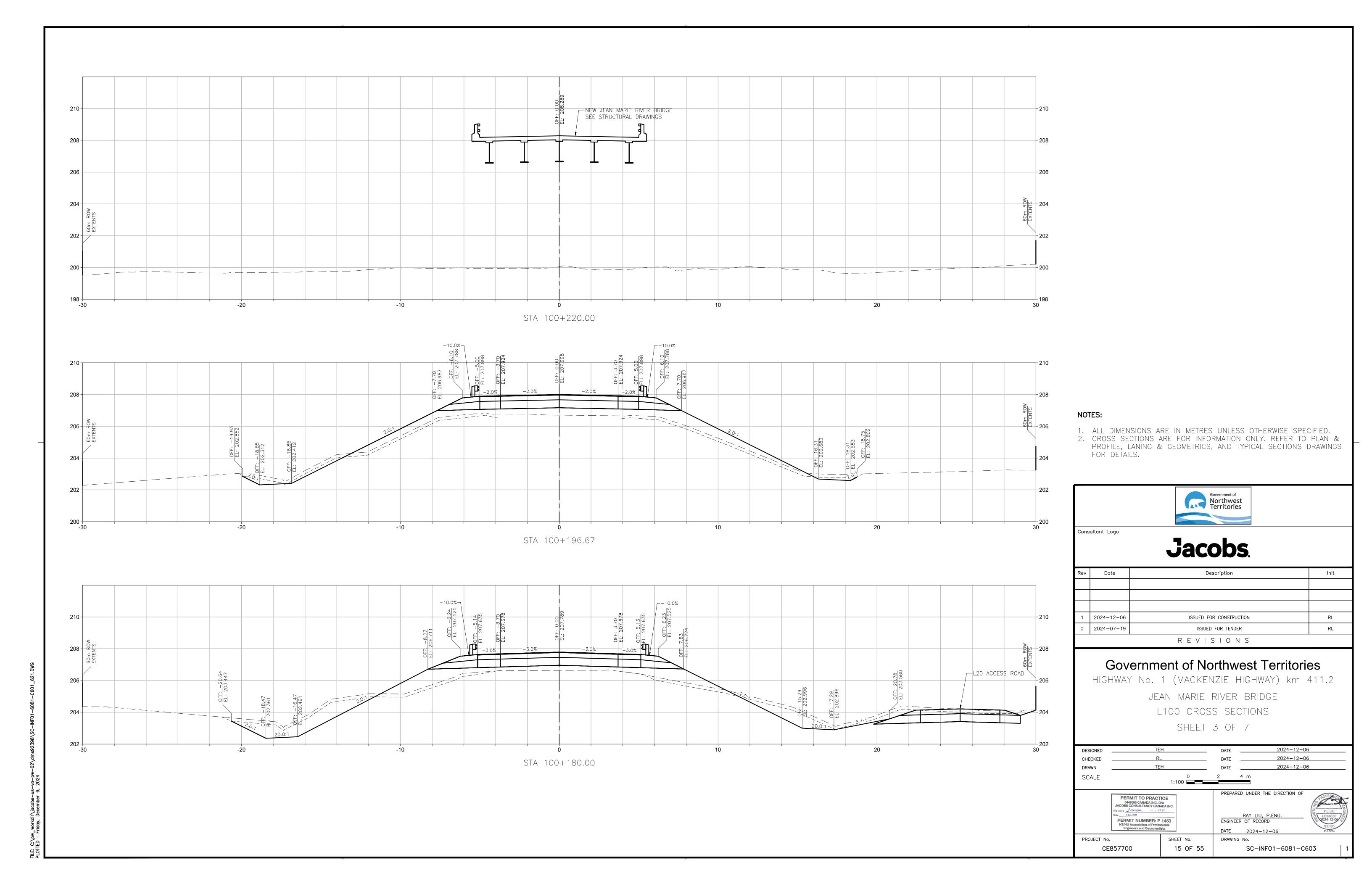
HIGHWAY No. 1 (MACKENZIE HIGHWAY) km 411.2 JEAN MARIE RIVER BRIDGE CULVERT SECTIONS AND DETAILS

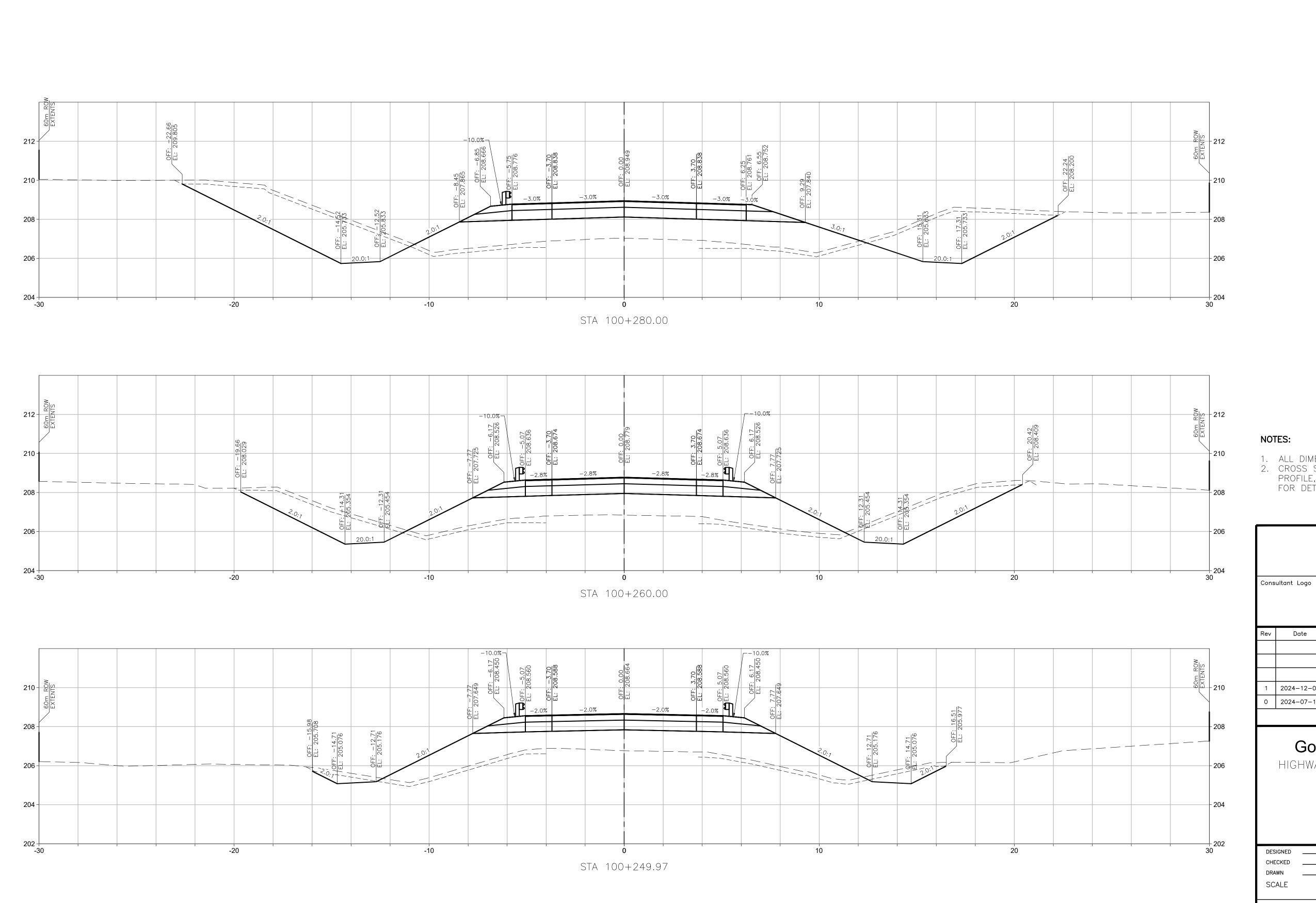
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HIGHWAY No. 1 (MACKENZIE HIGHWAY) km 411.2 JEAN MARIE RIVER BRIDGE L100 CROSS SECTIONS

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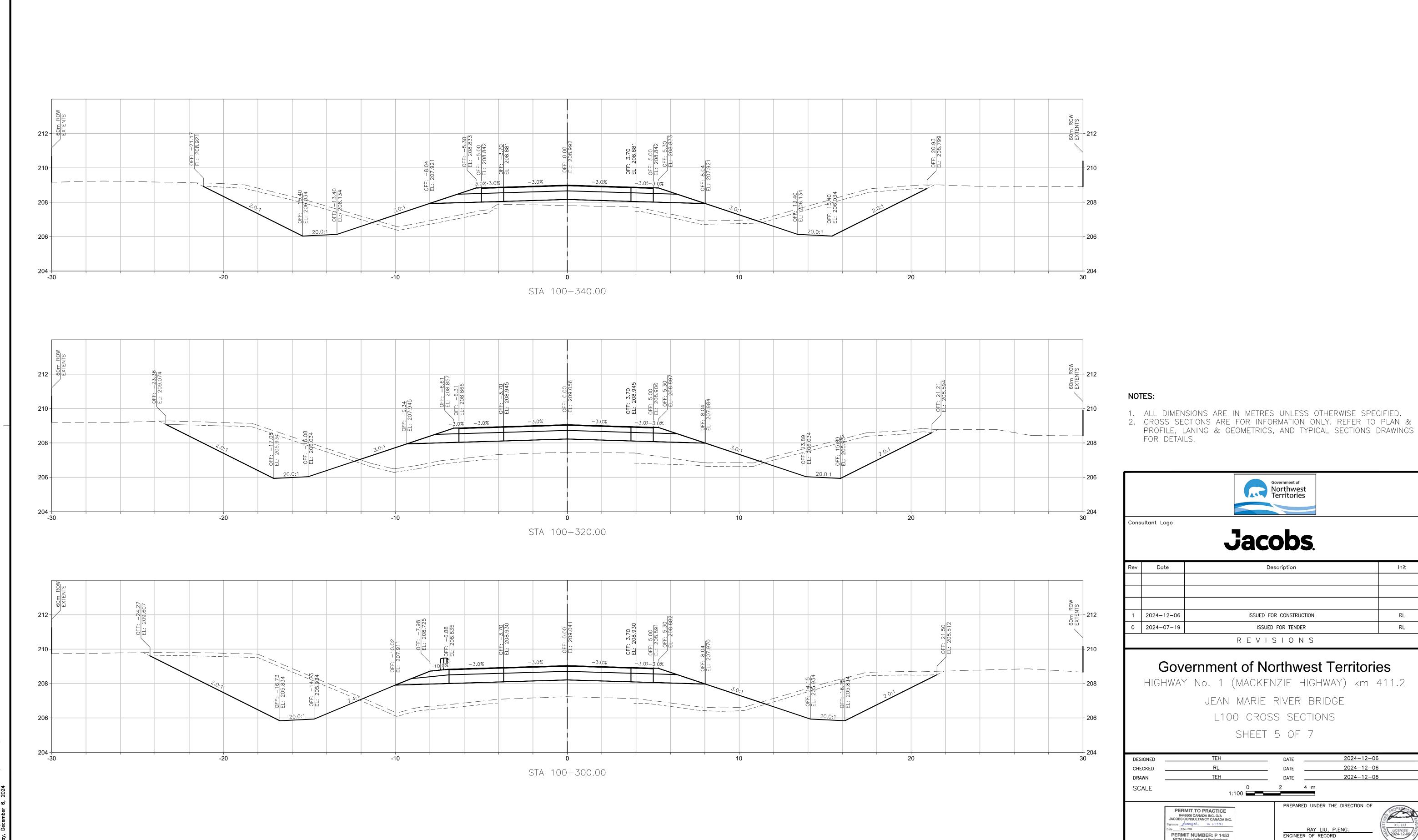
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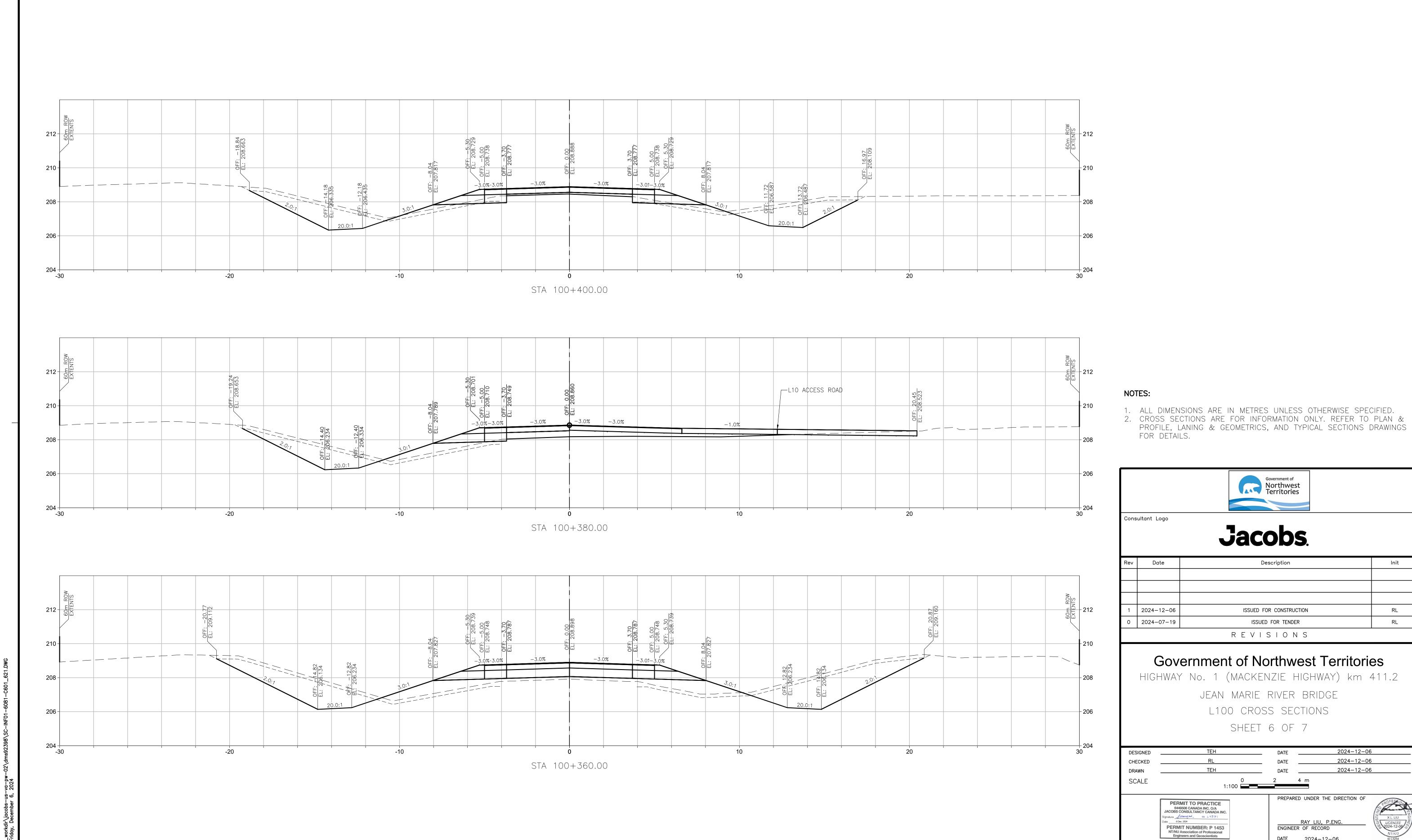
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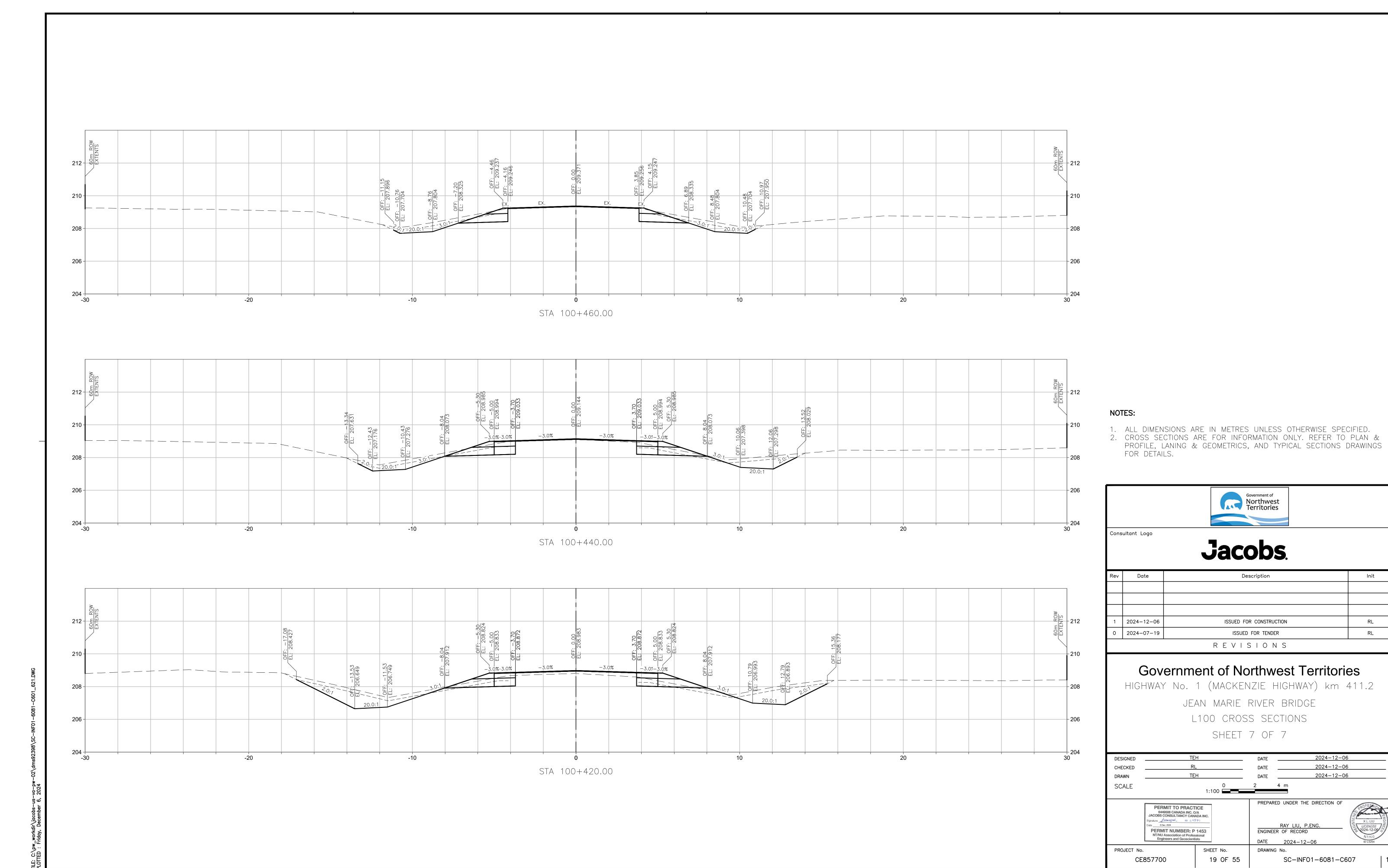
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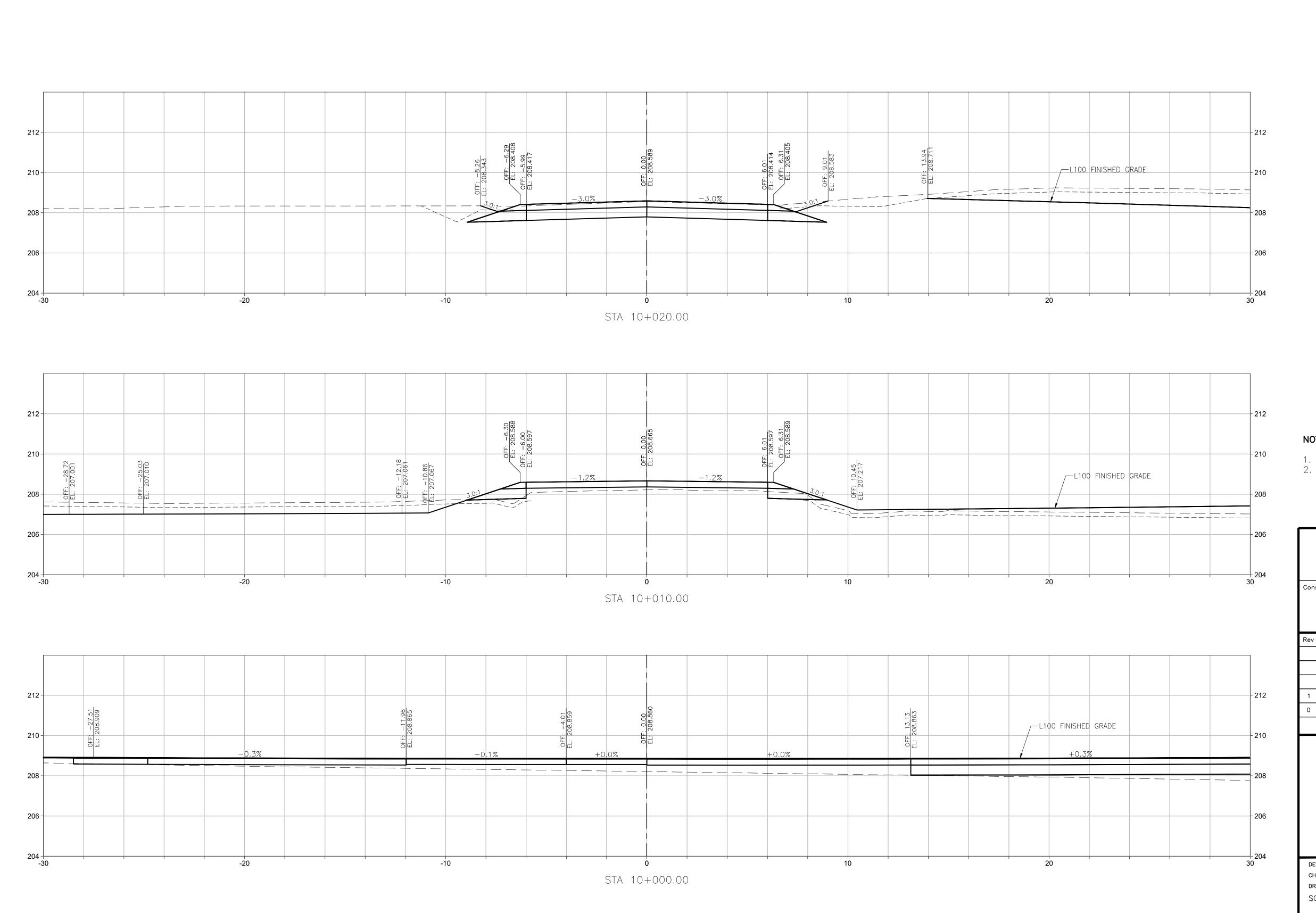
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HIGHWAY No. 1 (MACKENZIE HIGHWAY) km 411.2

JEAN MARIE RIVER BRIDGE

L10 CROSS SECTIONS

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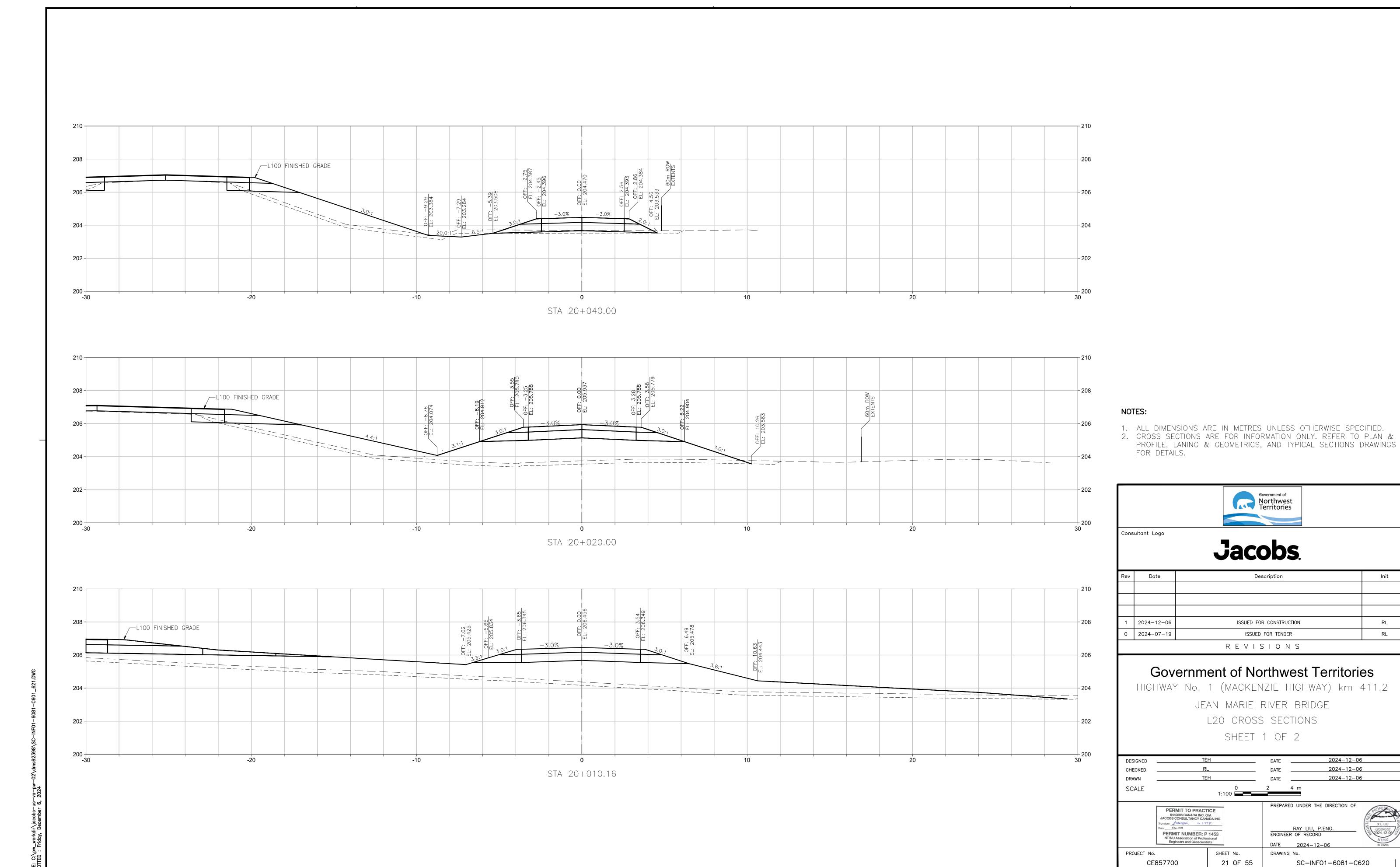
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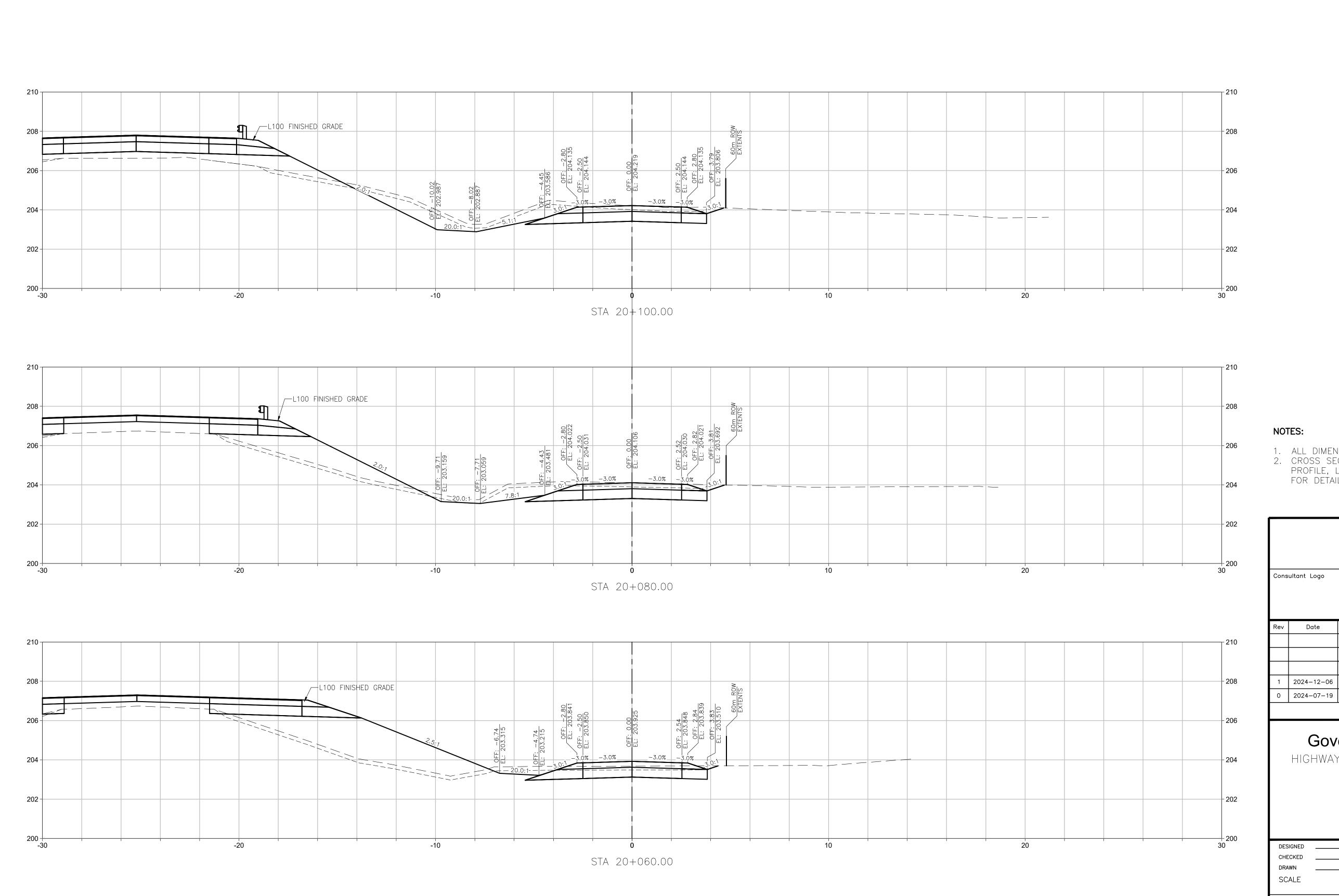
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HIGHWAY No. 1 (MACKENZIE HIGHWAY) km 411.2

JEAN MARIE RIVER BRIDGE

L20 CROSS SECTIONS

SHEET 2 OF 2

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