

LOCATION MAP

CONSTRUCTION NOTES

1. ELEVATIONS REFER TO _____ DATUM.
2. CONDUIT GRADE ON PROFILE IS APPROXIMATE ONLY. FINISHED GRADE WILL BE SUBJECT TO LOCATION OF EXISTING UNDERGROUND UTILITIES.
- X** 3. MINIMUM COVER CONDUIT 0.91m ALL SECTIONS EXCEPT WHERE OTHERWISE NOTED. MANHOLE ROOF 0.46m
- X** 4. ALL DUCTS TO BE 100mm P.V.C. DB II (ORANGE) UNLESS OTHERWISE NOTED.
- X** 5. ALL MANUFACTURED BENDS TO BE 0.91m RADIUS UNLESS OTHERWISE NOTED.
- X** 6. ALL CONCRETE PILASTERS TO BE 0.30m ABOVE GRADE UNLESS OTHERWISE NOTED.
- X** 7. CONTRACTOR IS TO PROVE THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SERVICES AFFECTED BY CONSTRUCTION BY M-SCOPE, HAND EXCAVATION OR BC ONE CALL.
- X** 8. FOR CABLE TROUBLE OR REPAIR INFORMATION, CONTACT TELUS AT 611.
- X** 9. TEMPORARY/PERMANENT RESTORATION IN ALL PAVED/SIDEWALK AREAS TO BE DONE IN ACCORDANCE WITH ALL APPROVING AUTHORITIES SPECIFICATIONS AND APPROVAL.
- X** 10. PERMANENT SIDEWALK AND CURB REPAIRS TO BE DONE BY **CONTRACTOR**. PERMANENT ROAD REPAIRS TO BE DONE BY **CONTRACTOR**.
- X** 11. PERMANENT BOULEVARD RESTORATION TO BE DONE BY CONTRACTOR.
- X** 12. ALL LANDSCAPE RESTORATION IN LAWN BOULEVARDS MUST BE DONE BY USING SUITABLE GRASS SOD.
- X** 13. CONTRACTOR TO CONTACT THE APPROPRIATE GAS COMPANY RECORDS DEPARTMENT 24 HOURS PRIOR TO STARTING WORK.
- X** 14. CONTRACTOR TO CONTACT THE CITY/MUNICIPAL WORKS INSPECTOR 48 HOURS PRIOR TO STARTING WORK.
- X** 15. CONTRACTOR TO CALL BC ONE CALL (FOR BC) OR AB ONE CALL (FOR ALBERTA) 48 HOURS PRIOR TO DIGGING.
- X** 16. ALL BACKFILL MATERIAL AND COMPACTION TO BE IN ACCORDANCE WITH ALL APPROVING AUTHORITIES SPECIFICATIONS.
- X** 17. ALL DIRECT BURIED SYSTEMS 2-WAY AND LARGER TO BE BUNDLED AND STRAPPED.
18. TELUS CONTRACTOR TO SUPPLY AND PLACE AN ENCLOSED PLYWOOD BOX OVER SAC PAD DUCTS AND SECURED TO FRAME.
19. BREAK OUT EXISTING CONCRETE ENCASED DUCTS: ANY JACK-HAMMERING OR USE OF POWER TOOLS TO BE CARRIED OUT BY CONTRACTOR. ALL HAND STRIPPING OF DUCTS, BREAKING OF DUCTS AND/OR HANDLING OF CABLES TO BE DONE BY TELUS FORCES.
20. EXISTING CONDUIT TO BE RELOCATED IF REQUIRED TO ENSURE SPECIFIED ENTRANCE LOCATIONS INTO MANHOLE/VAULT. CONTRACTOR TO PROVIDE EXCAVATION, BACK-FILLING AND RESTORATION IF RELOCATION BECOMES NECESSARY.
- X** 21. ORANGE TELUS MARKER TAPE TO BE PLACED ON CENTERLINE OF DUCT BANK @ 300mm BELOW FINAL GRADE.
- X** 22. CONTACT TELUS 10 DAYS BEFORE PROJECT START TO ARRANGE PICKUP LOCATION OF TELUS SUPPLIED MATERIAL. BC: KATHY MIDWOOD (Kathy.Midwood@Telus.com) at 604-453-2037
- X** 23. SUBGRADE & DIRECT BURIED MATERIAL WHERE APPLICABLE SHALL BE 20mm MINUS CRUSHED AGGREGATE.
- X** 24. BACKFILL MATERIAL SHALL BE:
IN ROADWAYS/TRAVELLED AREAS **20mm MINUS**
IN SIDEWALK/TRAVELLED AREAS **20mm MINUS**
IN BOULEVARD/UNTRAVELLED AREAS **20mm MINUS**
- X** 25. CONTRACTOR TO PULL IN A TELUS SUPPLIED MEASURING TAPE THRU ONE DUCT IN EACH RUN AFTER MANDRELLING, LOCATION TO BE DETERMINED BY TELUS.
- X** 26. MINIMUM SEPARATION FROM ALL UTILITIES TO BE 300mm.
27. ALL DIMENSIONS IN mm UNLESS OTHERWISE NOTED

LEGEND

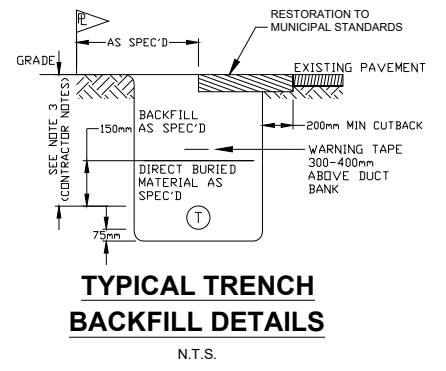
	PROPOSED SERVICE BOX / FDH
	PROPOSED MANHOLE
	PROPOSED SERVICE VAULT
	PROPOSED PEDESTAL
	PROPOSED CONDUIT (OPEN TRENCH)
	PROPOSED CONDUIT (DIRECTIONAL DRILL)
	PROPOSED DROP CONDUIT
	WATER MAIN
	SEWER MAIN
	SANITARY MAIN
	STORM MAIN
	GAS MAIN
	TEL DUCTS
	CATV DUCTS
	POWER DUCTS
	PIPELINE
	STREETLIGHT
	ABANDONED UTILITY
	EDGE OF PAVEMENT
	BACK OF CURB
	POLE (W/ ANCHOR)

CONSTRUCTION NOTES:

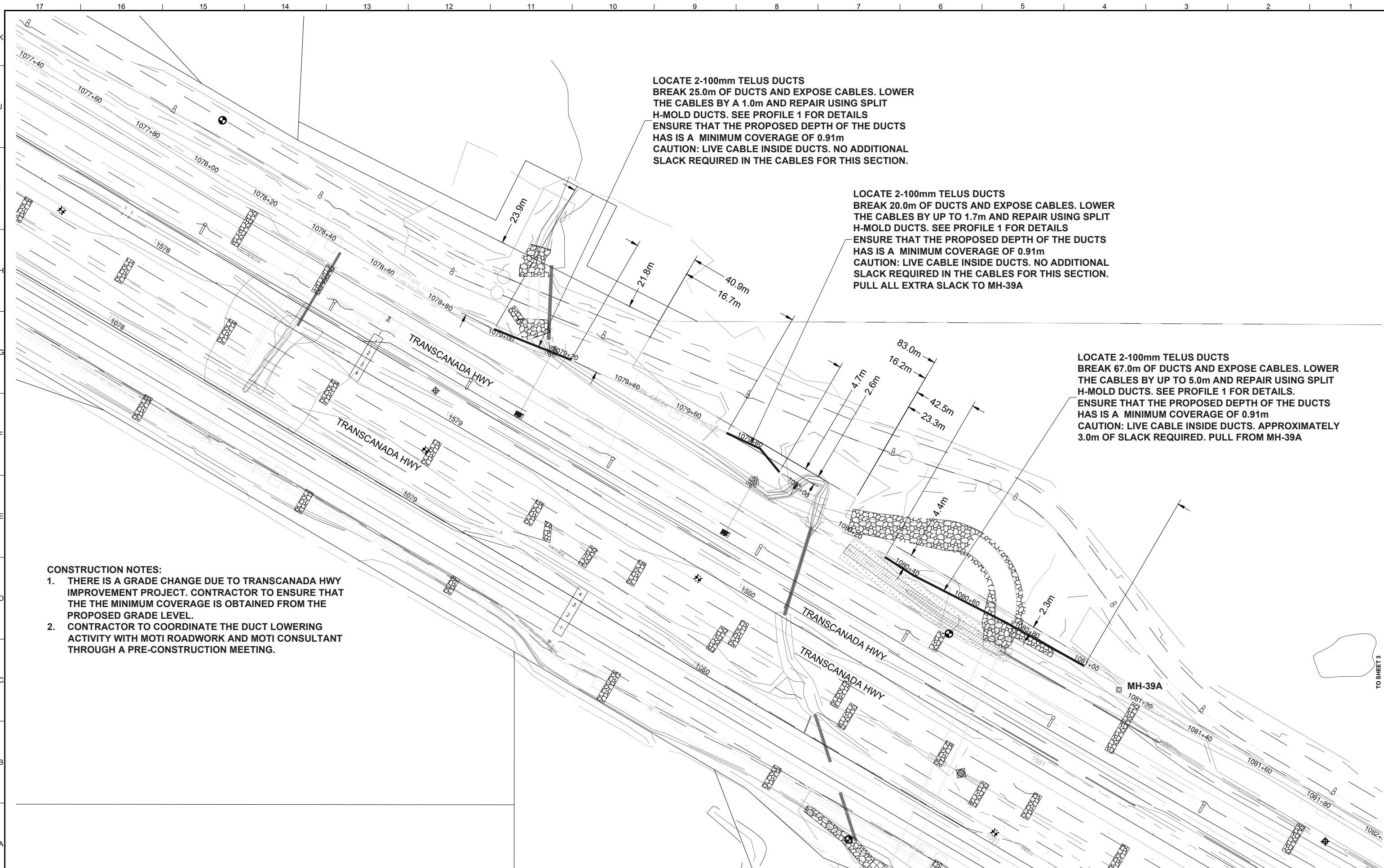
1. ALL WORKMANSHIP MUST BE IN ACCORDANCE WITH THE APPLICABLE EDITION OF THE TELUS OUTSIDE PLANT PRACTICE & STANDARDS (TOPPS).
2. ALL STRANDS TO CONFORM TO CSA GRADE 1300.
3. ALL STRANDS INSTALLED MUST BE SIZE 8 (8.4MM DIAMETER) UNLESS NOTED.
4. ALL DOWN GUYS INSTALLED MUST BE SIZE 10 (10.7MM DIAMETER) W/ JOHNNY BALL STRAIN INSULATOR UNLESS NOTED.
5. ALL ANCHORS INSTALLED MUST BE 25MM (1 IN) ROD, 0.25 SQ-M (400 SQ IN) CROSS-PLATE WITH MINIMUM SHAFT CAPACITY OF 160 KN (36M) UNLESS NOTED.
6. FOR SINGLE GUY ATTACHMENTS ONLY, CROSS-PLATE ANCHORS MAY BE SUBSTITUTED WITH PISA 25MM (1 IN) ROD, (10 IN) DOUBLE HELIX ANCHOR WITH MINIMUM SHAFT CAPACITY OF 138 KN (31 M).
7. YELLOW DOWNHAUL GUARDS SHALL BE INSTALLED AS PER TOPPS 1.1.1.11, JUB024.
8. POLE LINE EXTENSION BOLT STRAP TO CONFORM TO TOPPS 1.1.2.4.5
9. ATTACHING GUYS (POLE AND RODS) TO CONFORM TO TOPPS 1.1.1.4

DISCLAIMER:

1. THE DRAWING IS PROJECT SPECIFIC AND PROPERTY OF TELUS, THE DRAWING SHALL NOT BE USED WITHOUT THE CONSENT OF TELUS.
2. LTS DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE CONTENTS WHETHER SHOWN OR OMITTED FROM THIS DRAWING BEYOND THE REQUIREMENTS LISTED IN APPROVING AUTHORITY REQUIREMENTS.
3. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH IFC DRAWINGS. CONSTRUCTION SHALL VERIFY COMPLETENESS OF ALL POWER UTILITY AND TELUS MAKE READY BEFORE LASHING NEW CABLES.



GENERAL NOTES		REFERENCE DRAWINGS		REVISIONS				CONTACT INFORMATION		BC GROWTH AND SUSTAINMENT					
ALL HYDROVAC SLURRY MUST BE PROPERLY DISPOSED AT A PROVINCIALLY APPROVED FACILITY. RECORD KEEPING INCLUDING THE HYDROVAC OPERATOR NAME, DATE, LOCATION WHERE THE MATERIAL WAS EXTRACTED AND DISPOSED AND AMOUNT AND CONTENT OF SLURRY, MUST BE MAINTAINED AND MADE AVAILABLE ON REQUEST.		DRAWING #	TITLE	REV	DATE	DESCRIPTION	DES	CHK	TELUS DESIGN SPECIALIST	SITE CONTACT	CONDUIT REPAIR ORDER DESIGN FOR MOTI ROADWORKS TRANSCANADA HWY: LEFEUVRE RD TO ROSS RD, ABBOTSFORD MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE NTS				
		R1-1105-000EXU	MOTI DESIGN	A	2024-04-18	ISSUED FOR REVIEW	ER	FLD	JASON NG 236-989-7065 JASON.NG2@TELUS.COM	JACK CHEN 250-889-1638 JACK.CHEN@GOV.BC.CA					
								DESIGNER	SENIOR DESIGNER						
								EZEKIEL RAI 775-945-3384 EZEKIEL.RAI@LEDCOR.COM	JOHN BARRON 604-699-2649 JOHN.BARRON@LEDCOR.COM						
								PREPARED FOR	PREPARED BY	IN PARTNERSHIP WITH					
		DRAWING #	JIRA ID	GS-111037	SHEET: 1	DATE: 2024-04-18									
		PROJECT #	COID	ABFD	TOTAL SHEETS: 7	REVISION: A									



LOCATE 2-100mm TELUS DUCTS
 BREAK 25.0m OF DUCTS AND EXPOSE CABLES. LOWER THE CABLES BY A 1.0m AND REPAIR USING SPLIT H-MOLD DUCTS. SEE PROFILE 1 FOR DETAILS
 ENSURE THAT THE PROPOSED DEPTH OF THE DUCTS HAS IS A MINIMUM COVERAGE OF 0.91m
 CAUTION: LIVE CABLE INSIDE DUCTS. NO ADDITIONAL SLACK REQUIRED IN THE CABLES FOR THIS SECTION.

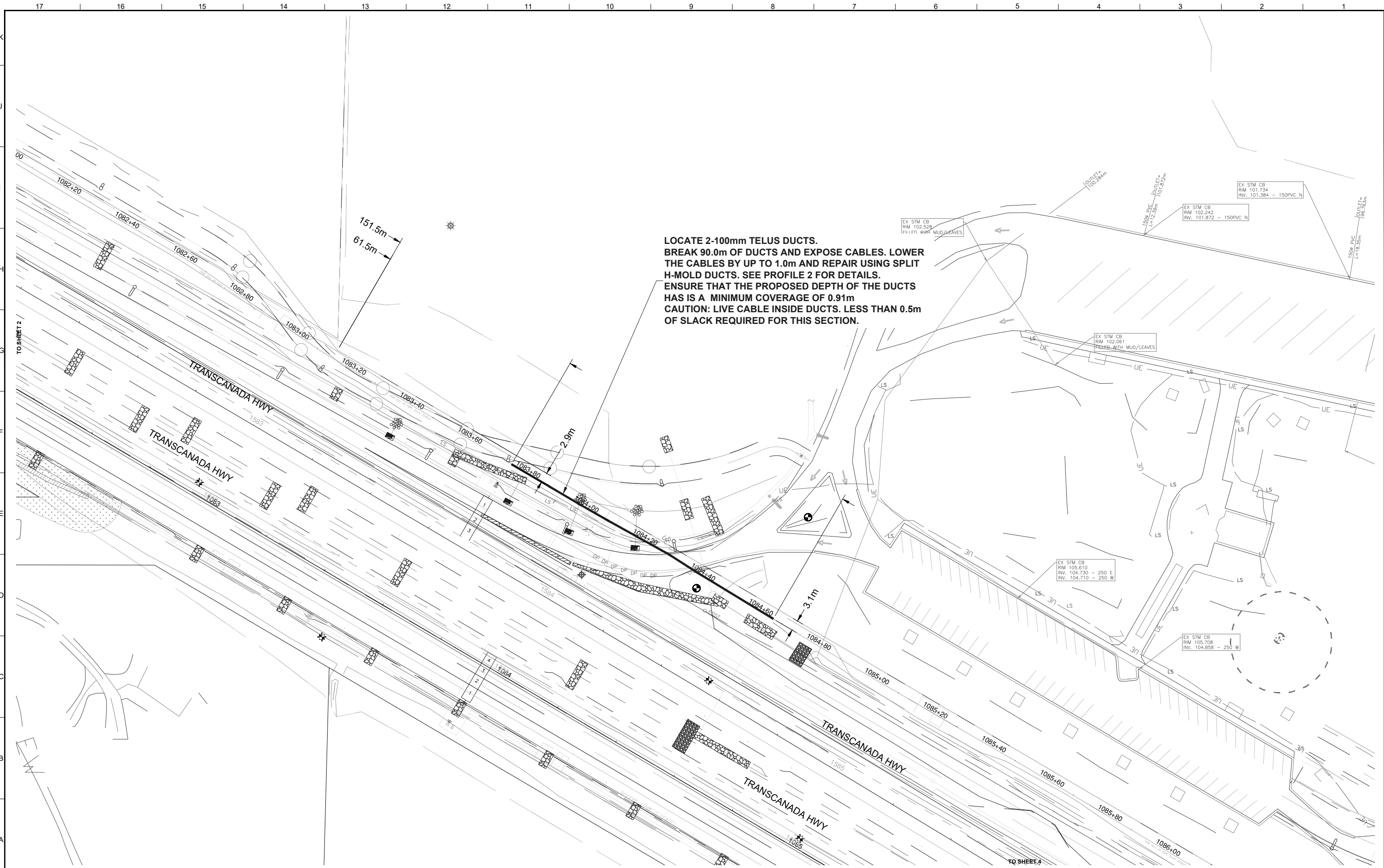
LOCATE 2-100mm TELUS DUCTS
 BREAK 20.0m OF DUCTS AND EXPOSE CABLES. LOWER THE CABLES BY UP TO 1.7m AND REPAIR USING SPLIT H-MOLD DUCTS. SEE PROFILE 1 FOR DETAILS
 ENSURE THAT THE PROPOSED DEPTH OF THE DUCTS HAS IS A MINIMUM COVERAGE OF 0.91m
 CAUTION: LIVE CABLE INSIDE DUCTS. NO ADDITIONAL SLACK REQUIRED IN THE CABLES FOR THIS SECTION. PULL ALL EXTRA SLACK TO MH-39A

LOCATE 2-100mm TELUS DUCTS
 BREAK 67.0m OF DUCTS AND EXPOSE CABLES. LOWER THE CABLES BY UP TO 5.0m AND REPAIR USING SPLIT H-MOLD DUCTS. SEE PROFILE 1 FOR DETAILS.
 ENSURE THAT THE PROPOSED DEPTH OF THE DUCTS HAS IS A MINIMUM COVERAGE OF 0.91m
 CAUTION: LIVE CABLE INSIDE DUCTS. APPROXIMATELY 3.0m OF SLACK REQUIRED. PULL FROM MH-39A

- CONSTRUCTION NOTES:**
1. THERE IS A GRADE CHANGE DUE TO TRANSCANADA HWY IMPROVEMENT PROJECT. CONTRACTOR TO ENSURE THAT THE THE MINIMUM COVERAGE IS OBTAINED FROM THE PROPOSED GRADE LEVEL.
 2. CONTRACTOR TO COORDINATE THE DUCT LOWERING ACTIVITY WITH MOTI ROADWORK AND MOTI CONSULTANT THROUGH A PRE-CONSTRUCTION MEETING.

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**LOCATE 2-100mm TELUS DUCTS.
 BREAK 90.0m OF DUCTS AND EXPOSE CABLES. LOWER
 THE CABLES BY UP TO 1.0m AND REPAIR USING SPLIT
 H-MOLD DUCTS. SEE PROFILE 2 FOR DETAILS.
 ENSURE THAT THE PROPOSED DEPTH OF THE DUCTS
 HAS IS A MINIMUM COVERAGE OF 0.91m
 CAUTION: LIVE CABLE INSIDE DUCTS. LESS THAN 0.5m
 OF SLACK REQUIRED FOR THIS SECTION.**

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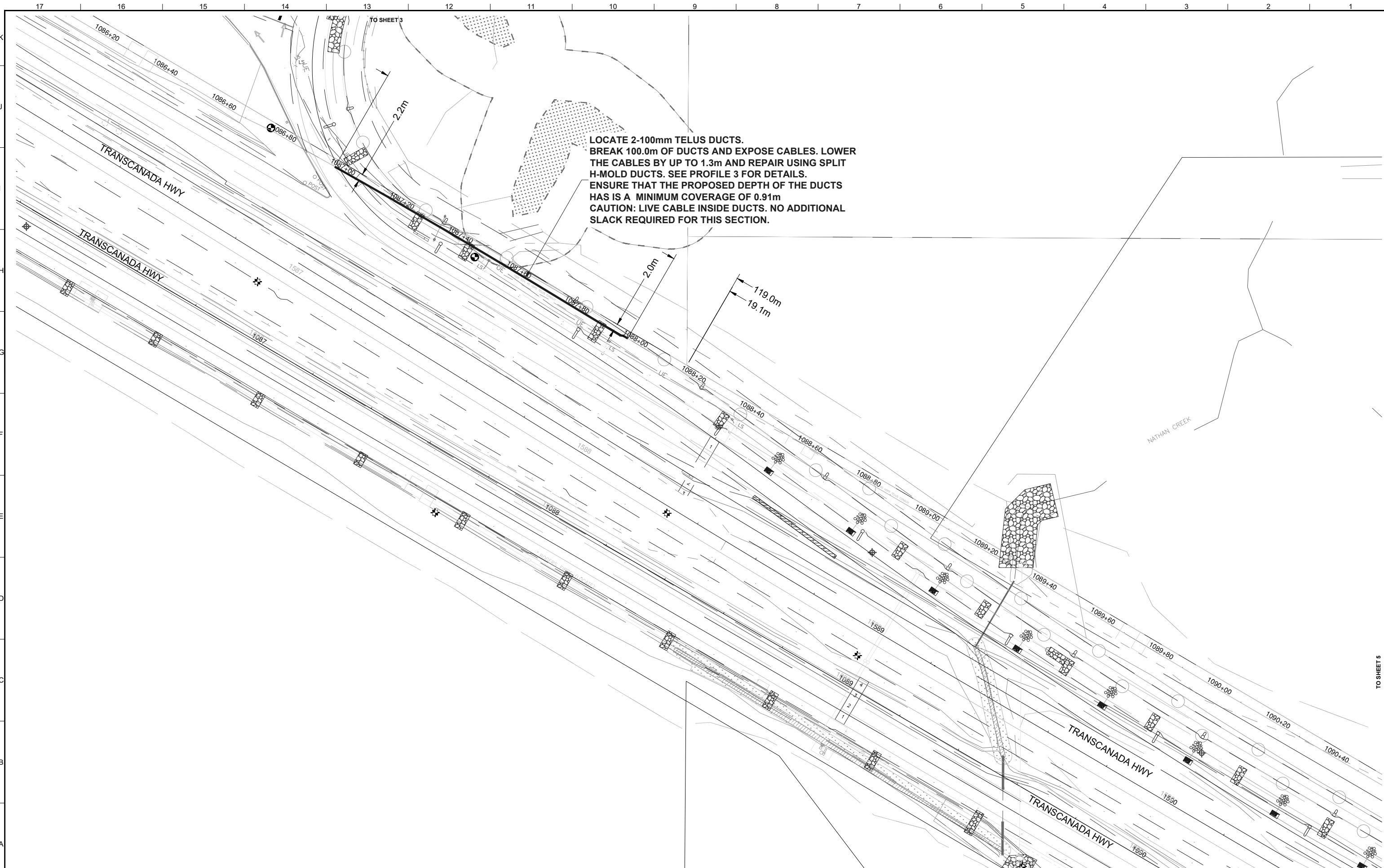
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BC ONE CALL
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 1-800-464-8888
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 VANCOUVER AREA
 257-1940
**Call or Click
 before you dig**
 CALL AT LEAST 2 FULL
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CONSTRUCTION NOTE:
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 CONTACT LTS ENGINEERING FOR
 CHANGES TO THE APPROVED
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 (LTS@TELUSBAUDSIGN@LEDCOR.COM)

CONTACT INFORMATION	
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PREPARED FOR TELUS	PREPARED BY LEDCOR
IN PARTNERSHIP WITH	

BC GROWTH AND SUSTAINMENT				
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1:1000 (m) 0 10 20 30 40				
DRAWING #	2919085_U	JIRA ID	GS-111037	SHEET: 3
PROJECT #	P-2024290.01	COID	ABFD	TOTAL SHEETS: 7
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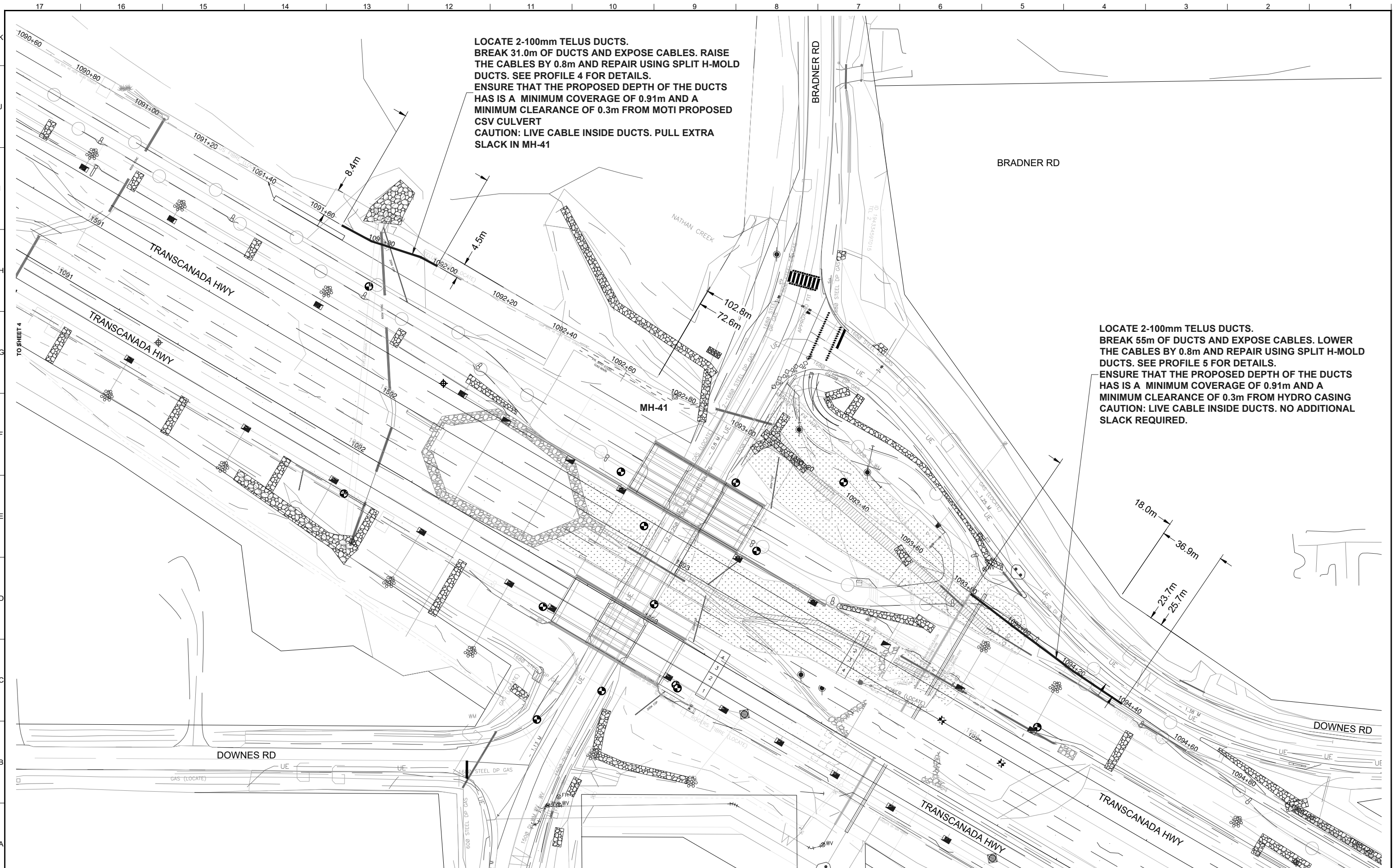
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DRAWING #	2919085_U	JIRA ID	GS-111037	SHEET: 4
PROJECT #	P-2024290.01	COID	ABFD	TOTAL SHEETS: 7
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LOCATE 2-100mm TELUS DUCTS.
 BREAK 31.0m OF DUCTS AND EXPOSE CABLES. RAISE
 THE CABLES BY 0.8m AND REPAIR USING SPLIT H-MOLD
 DUCTS. SEE PROFILE 4 FOR DETAILS.
 ENSURE THAT THE PROPOSED DEPTH OF THE DUCTS
 HAS IS A MINIMUM COVERAGE OF 0.91m AND A
 MINIMUM CLEARANCE OF 0.3m FROM MOTI PROPOSED
 CSV CULVERT
 CAUTION: LIVE CABLE INSIDE DUCTS. PULL EXTRA
 SLACK IN MH-41

LOCATE 2-100mm TELUS DUCTS.
 BREAK 55m OF DUCTS AND EXPOSE CABLES. LOWER
 THE CABLES BY 0.8m AND REPAIR USING SPLIT H-MOLD
 DUCTS. SEE PROFILE 5 FOR DETAILS.
 ENSURE THAT THE PROPOSED DEPTH OF THE DUCTS
 HAS IS A MINIMUM COVERAGE OF 0.91m AND A
 MINIMUM CLEARANCE OF 0.3m FROM HYDRO CASING
 CAUTION: LIVE CABLE INSIDE DUCTS. NO ADDITIONAL
 SLACK REQUIRED.



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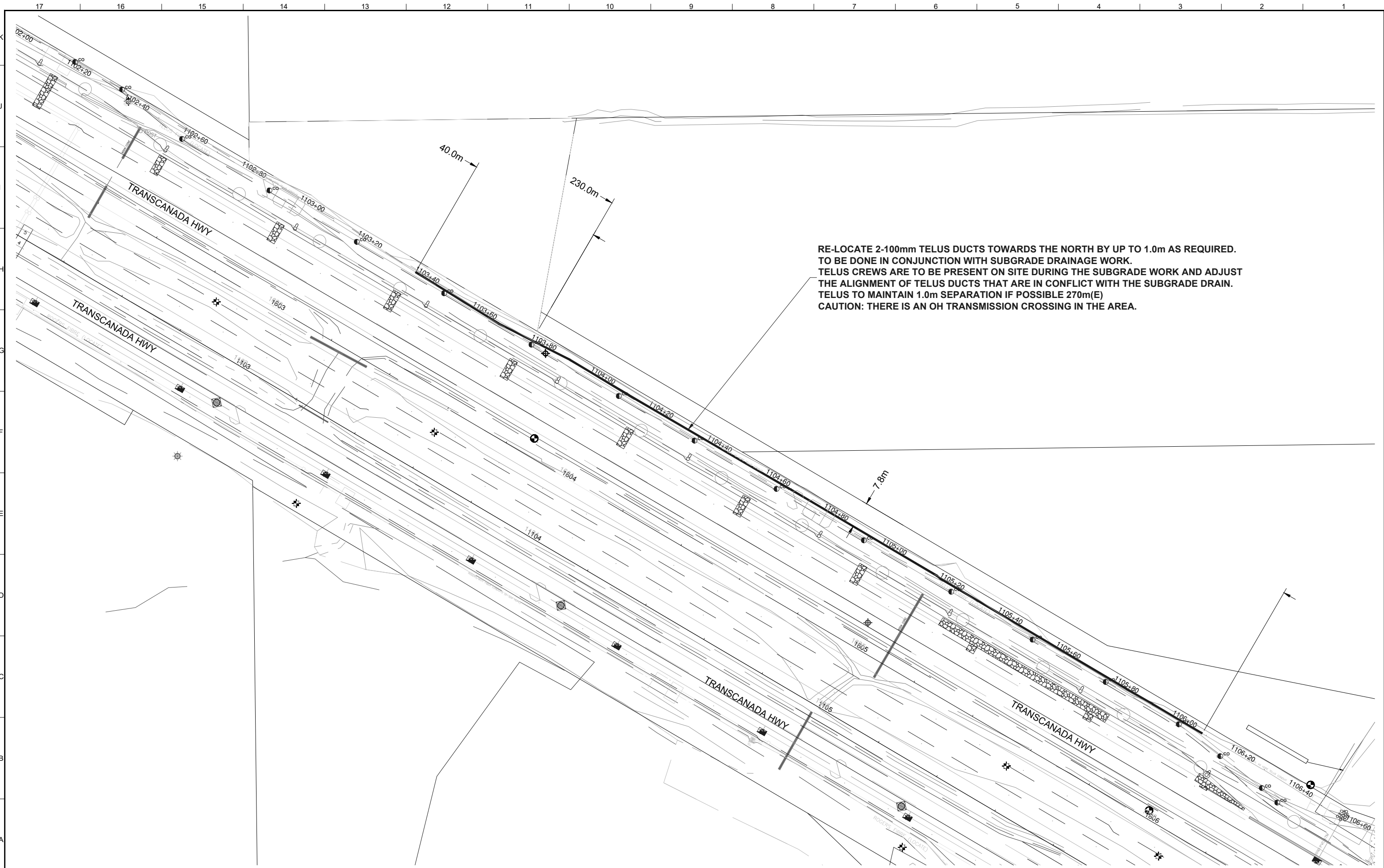
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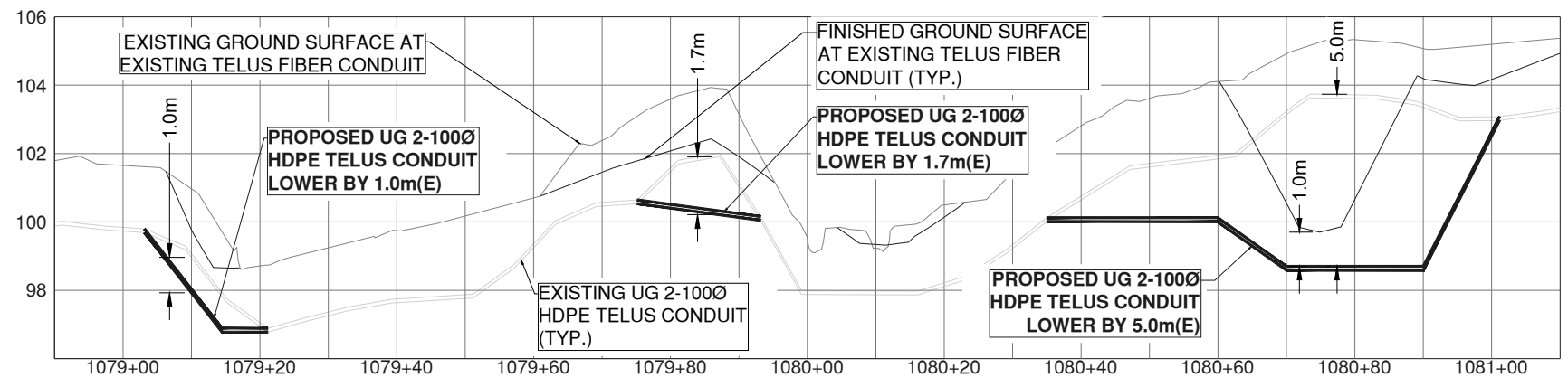
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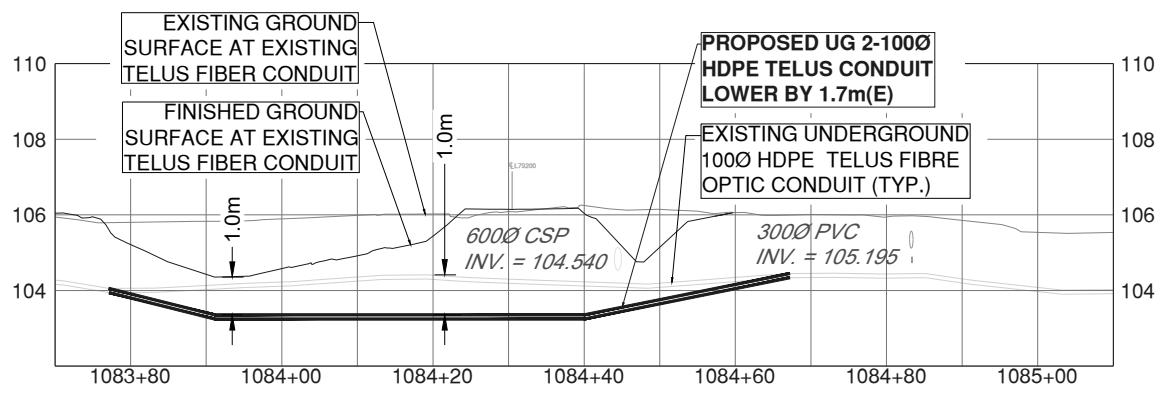
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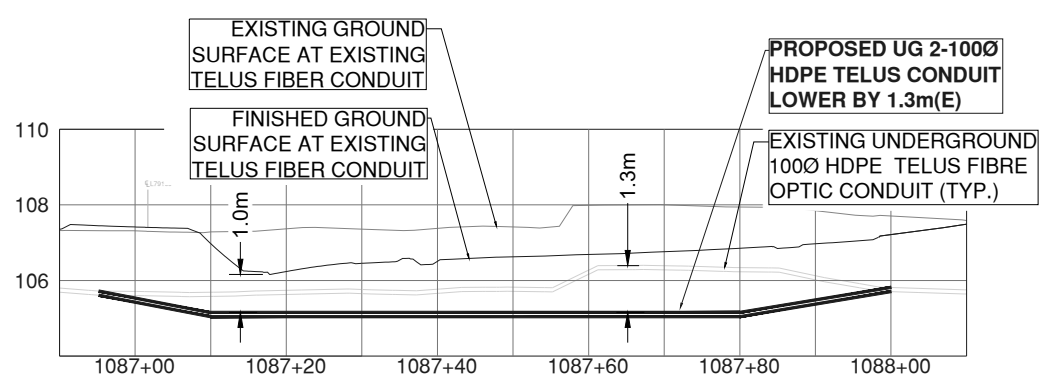
PROFILE 1 (1079+00 TO 1081+00)

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



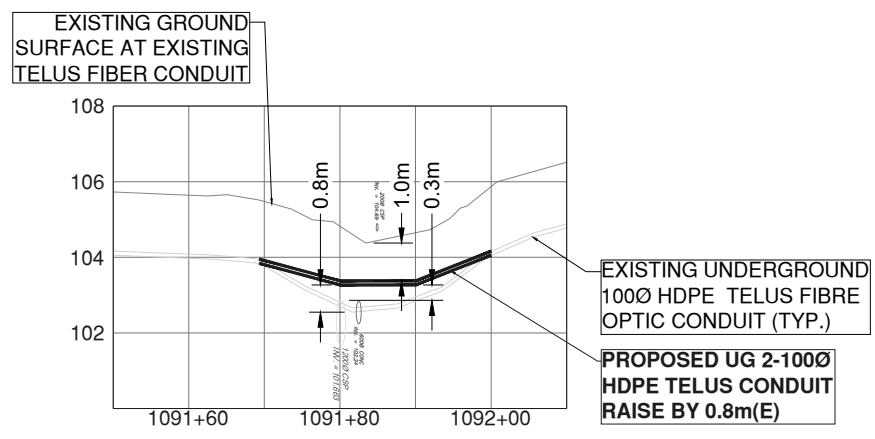
PROFILE 2 (1083+80 TO 1085+00)

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



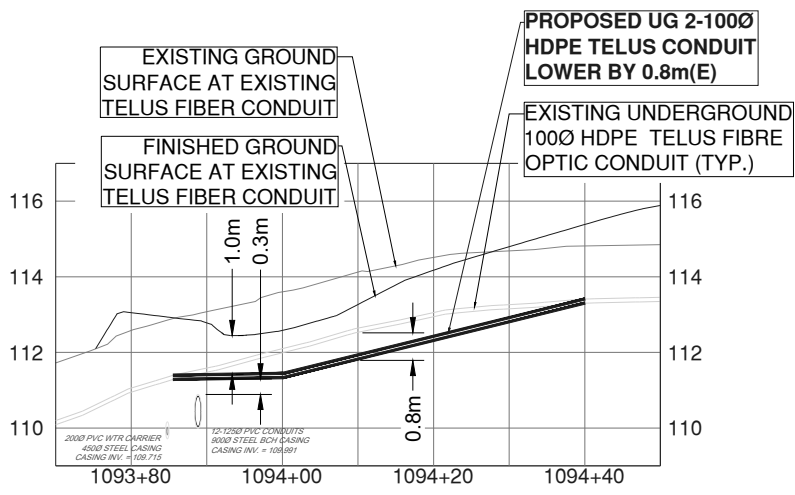
PROFILE 3 (1087+00 TO 1088+00)

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



PROFILE 2 (1091+60 TO 1092+00)

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



PROFILE 2 (1093+80 TO 1094+40)

HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



GENERAL NOTES
ALL HYDROVAC SLURRY MUST BE PROPERLY DISPOSED AT A PROVINCIALLY APPROVED FACILITY. RECORD KEEPING, INCLUDING THE HYDROVAC OPERATOR NAME, DATE, LOCATION WHERE THE MATERIAL WAS EXTRACTED AND DISPOSED AND AMOUNT AND CONTENT OF SLURRY, MUST BE MAINTAINED AND MADE AVAILABLE ON REQUEST.

DRAWING #	TITLE
R1-1105-000EXU	MOTI DESIGN

REV	DATE	DESCRIPTION	DES	CHK
A	2024-04-18	ISSUED FOR REVIEW	ER	FLD

BC ONE CALL
CALL BEFORE YOU DIG
1-800-464-8888
OR BY CELLULAR 6886 VANCOUVER AREA 257-1940
CALL AT LEAST 2 FULL DAYS BEFORE YOU PLAN TO DIG
CONSTRUCTION NOTE:
- ALL EXISTING UTILITIES TO BE LOCATED PRIOR TO CONSTRUCTION
- CONTACT LTS ENGINEERING FOR CHANGES TO THE APPROVED DRAWING (LTS@STELUSBAUDSIGN@LEDCOR.COM)

CONTACT INFORMATION	
TELUS DESIGN SPECIALIST JASON NG 236-989-7065 JASON.NG2@TELUS.COM	SITE CONTACT JACK CHEN 250-889-1638 JACK.CHEN@GOV.BC.CA
DESIGNER EZEKIEL RAI 778-945-3384 EZEKIEL.RAI@LEDCOR.COM	SENIOR DESIGNER JOHN BARRON 604-699-2649 JOHN.BARRON@LEDCOR.COM
PREPARED FOR TELUS	PREPARED BY LEDCOR
IN PARTNERSHIP WITH	

BC GROWTH AND SUSTAINMENT				
CONDUIT REPAIR ORDER DESIGN FOR MOTI ROADWORKS TRANSCANADA HWY: LEFEUVRE RD TO ROSS RD, ABBOTSFORD MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE				
1:1000 (m) 0 10 20 30 40				
DRAWING #	2919085_U	JIRA ID	GS-111037	SHEET: 7
PROJECT #	P-2024290.01	COID	ABFD	TOTAL SHEETS: 7
		DATE:	2024-04-18	
		REVISION:	A	