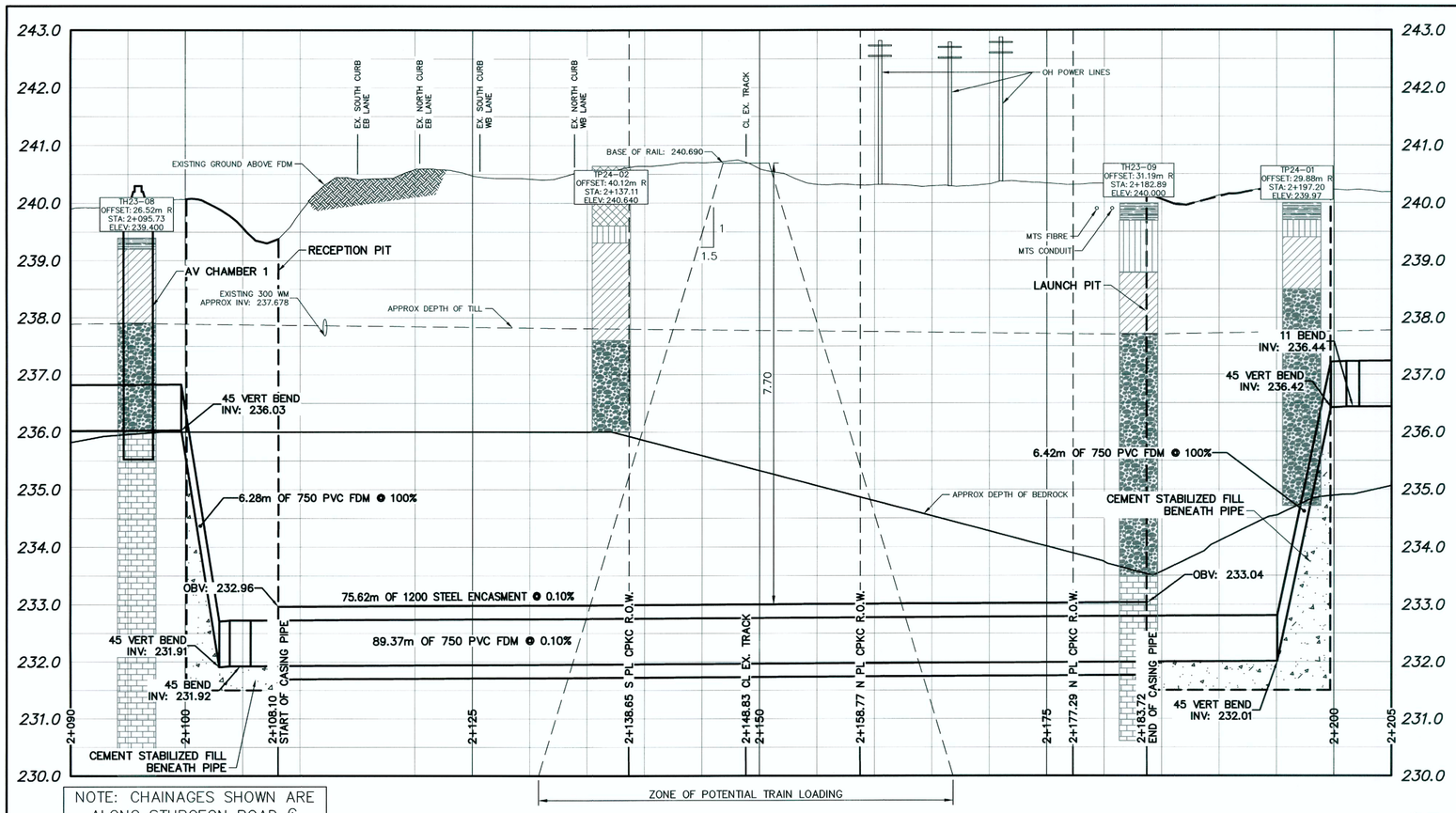
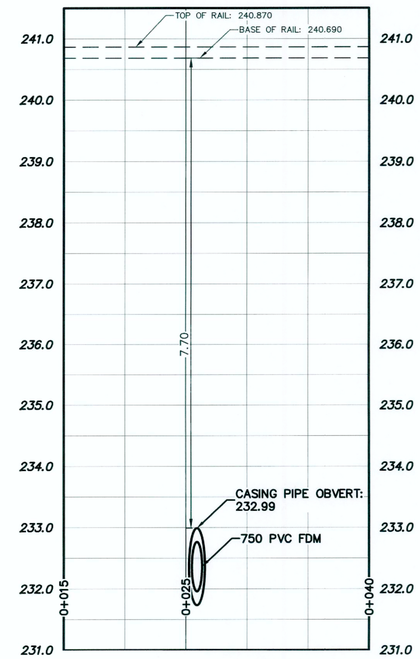
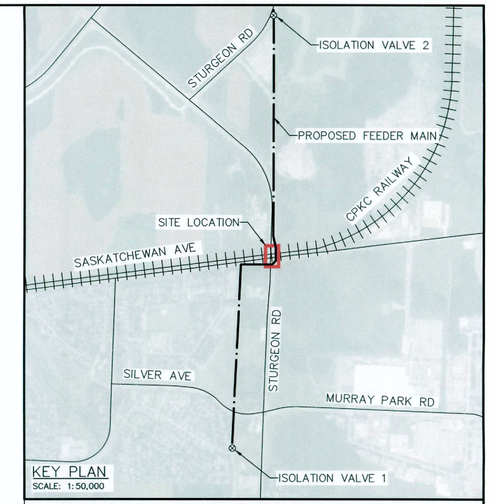


NOTE: CHAINAGES SHOWN ARE ALONG STURGEON ROAD ℄



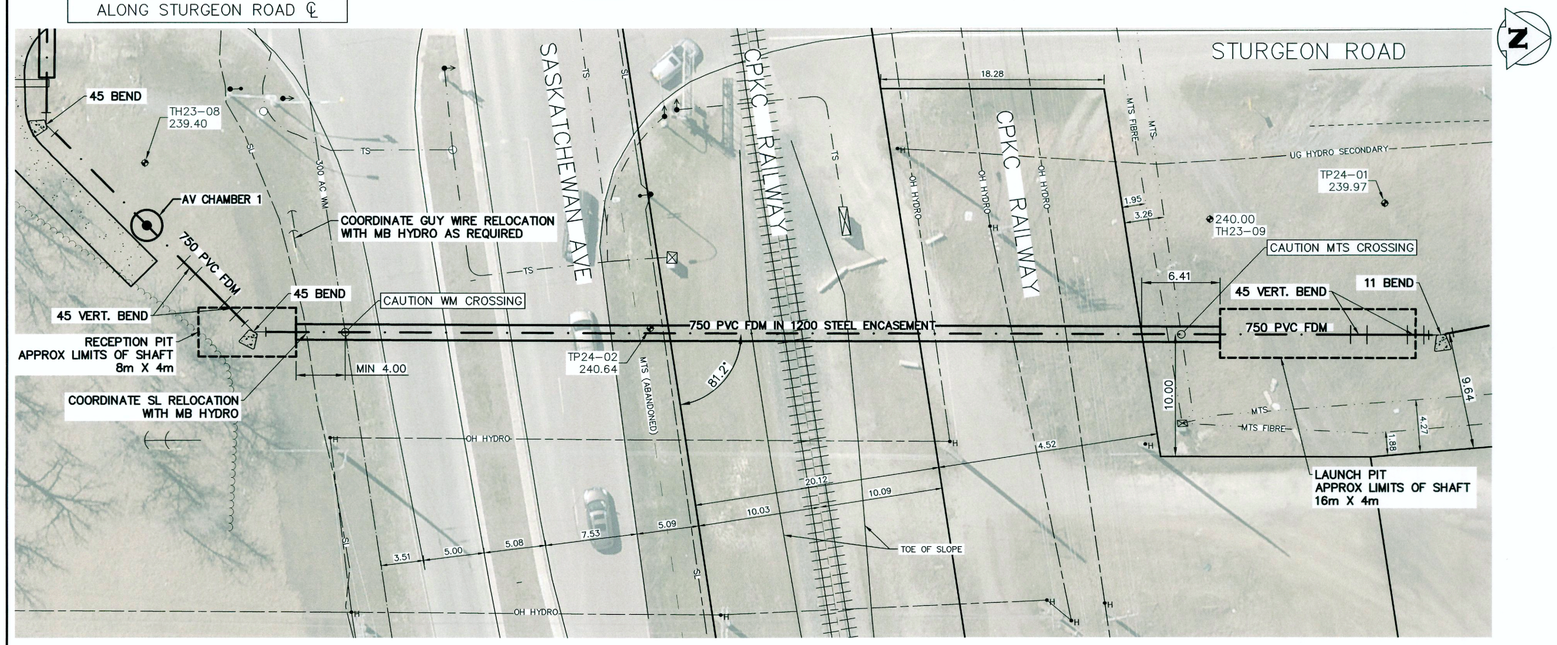
SECTION ALONG TRACK ℄
HOR. SCALE = 1:250 VERT. SCALE = 1:100



TEST HOLE LEGEND:

- ORGANICS
- CLAY
- FILL (MADE GROUND)
- TILL
- SILT
- BEDROCK

ISOLATION VALVE LOCATIONS		
DESCRIPTION	NORTHING	EASTING
ISOLATION VALVE 1	5528180.349	623562.266
ISOLATION VALVE 2	5530352.922	623769.632



GENERAL NOTES:
- ALL UTILITIES SHOWN ARE APPROXIMATE ONLY. LOCATIONS OF ALL UTILITIES TO BE CONFIRMED IN FIELD BY THE CONTRACTOR.
- THIS DRAWING DEPICTS THE DESIGN OF THE CASED CROSSING. FEEDER MAIN DESIGN ELEMENTS ARE SHOWN FOR INFORMATION ONLY.
- RAILWAY MILEAGE AND SUBDIVISION: MILE 3.28 GLENBORO SUBDIVISION.
- APPROXIMATE TILL AND BEDROCK PROFILES ARE INTERPOLATED FROM THE TEST HOLE DATA PROVIDED WITHIN THE GEOTECHNICAL REPORT.
- GEOTECHNICAL REPORT: CENTREPORT SOUTH REGIONAL WATER & WASTEWATER SERVICING PROJECT CPKC MILE 3.28 GLENBORO SUBDIVISION CROSSING GEOTECHNICAL REPORT (KGS GROUP MARCH 2024).
- CONTRACTOR TO CONFIRM BASE OF RAIL ELEVATION UPON LAYOUT OF THE WORKS.

TRENCHLESS NOTES:
- CASING WALL THICKNESS DESIGN BASED ON COOPER E90 TRACK LOADING.
- CARRIER PIPE TO BE SUPPORTED BY MANUFACTURED CASING SPACERS. CASING ENDS TO BE SEALED WITH MANUFACTURED NEOPRENE RUBBER END SEALS. REFER TO CIVIL DETAILS AND SPECIFICATIONS.
- CROSSING TO BE CONSTRUCTED, MAINTAINED AND OPERATED IN ACCORDANCE WITH TRANSPORT CANADA STANDARD TC E-10 AND THE LATEST EDITION OF CSA STANDARD Z662.
- WORKING PIT DIMENSIONS ARE APPROXIMATE. SUPPORT STRUCTURE DESIGNS ARE THE CONTRACTOR'S RESPONSIBILITY.
- SUPPORT STRUCTURES SHALL BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA.
- SUPPORT STRUCTURES SHALL BE DESIGNED BASED ON THE SITE CONDITIONS, ANTICIPATED GROUND AND GROUNDWATER CONDITIONS, TRENCHLESS INSTALLATION EQUIPMENT AND THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.

ENCASEMENT PIPE SPECIFICATION:
- OUTSIDE DIAMETER: 1219 mm
- PIPE MATERIAL: STEEL
- SPECIFICATION AND GRADE: ASTM A252 GR2 (241 MPa SMYS)
- WALL THICKNESS: 19.1 mm
- PROTECTION: N/A
- JOINT: WELDED (CJP GROOVE WELDS)
- INSTALLATION METHOD: DOWN THE HOLE HAMMER (DTH) OR MICROTUNNELLING

CARRIER PIPE SPECIFICATION:
- CONTENTS: POTABLE WATER
- NOMINAL DIAMETER: 750 mm
- PIPE MATERIAL: PVC
- SPECIFICATION: AWWA C900
- DIMENSION RATIO: DR 18
- OPERATING PRESSURE: 483 kPa (70 PSI)
- SURGE/TEST PRESSURE: 1000 kPa (145 PSI)
- JOINT: RESTRAINED (EXTERNAL BELL HARNESS)

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

0 5.0 10.0 15.0 20.0m
SCALE: 1:250

PROPERTY LIMITS DELINEATION
DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP AND ASSOCIATED ENGINEERING MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

LOCATION APPROVED
UNDERGROUND STRUCTURES
SUPV. U/G STRUCTURES COMMITTEE — DATE
NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

VERTICAL DATUM: CGVD28 (HT2.0 Geoid)
HORIZONTAL DATUM: NAD83 (June 1990), Zone 14

NO.	REVISIONS	DATE (YYYY/MM/DD)	BY
0	ISSUED FOR TENDER	24/04/26	GTH

KGS GROUP — Associated Engineering

DESIGNED BY	CL	CHECKED BY	RBO
DRAWN BY	GTH	APPROVED BY	JL
SCALE: HORIZONTAL	1:250	RELEASED FOR CONSTRUCTION	
VERTICAL	1:100		
DATE	2024 04 26	DATE	

PLOT DATE: 2024 04 26

ENGINEER'S SEAL
ORIGINALLY SIGNED AND SEALED BY J.S. LUEKE ON MARCH 26, 2024

CONSULTANT DRAWING NUMBER
C-4A-115

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

CENTREPORT SOUTH REGIONAL WATER AND WASTEWATER SERVICING – PHASE 1A CONTRACT 4A – FEEDER MAIN

STURGEON ROAD SOUTH

CPKC RAILWAY MILE 3.28 GLENBORO SUBDIVISION CROSSING

SHEET 18 OF 34
CITY DRAWING NUMBER
1-0798C-C0001-001

BID OPP: 220-2024
CONTRACT NUMBER: 4A

FILE PATH: U:\FMS\23-0107-009\
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