ALLEY NORTH OF METCALFE AVENUE
(WEST OF ST MARY'S ROAD)

PLAN
SCALE: 1:150

OUTER CONCRETE COLLAR DETAIL
SCALE: NTS

BY-PASS MANHOLE
SCALE: NTS

GENERAL NOTES:

1. ALL WORKS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR TO PROVIDE TEMPORARY SHORING WHERE REQUIRED IN ACCORDANCE WITH THE LATEST REVISIONS TO THE "CONSTRUCTION SAFETY ACT" OF THE PROVINCE OF MANITOBA DEPARTMENT OF LABOR AND IN ACCORDANCE WITH THE PROVINCE OF MANITOBA "W210 WORKPLACE SAFETY & HEALTH ACT" AND "GUIDELINES FOR EXCAVATION WORK". WHERE SHORING IS REQUIRED, THE CONTRACTOR SHALL SUPPLY STAMPED ENGINEERING SHORING DESIGN BY ENGINEER REGISTERED IN PROVINCE OF MANITOBA,
3. ALL ELEVATIONS SHOWN ON DRAWINGS ARE TAKEN FROM CITY OF WINNIPEG RECORD DRAWINGS.
4. EXPOSE EXISTING FORCEMAIN AND SEWERMAIN AT ALL PROPOSED MANHOLE LOCATIONS USING SOFT DIGGING METHODS AND CONFIRM INVERTS AND EXISTING PIPE SIZES PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO VERIFY ALL EXISTING UNDERGROUND UTILITIES AND EXISTING SERVICES USING SOFT-DIGGING PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO MARK ALL TREES FOR PRUNING AND/OR REMOVAL PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR. ANY WORKS AND/OR PERMITS ASASOCIATED WITH TEMPORARILY SUPPORTING, RAISING, AND/OR RELOCATING OVERHEAD POWER LINES AND/OR LIGHT STANDARDS AS REQUIRED TO FACILITATE THE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT THE LOCAL MANITOBA HYDRO OFFICE TO ARRANGE FOR MANITOBA HYDRO STAFF TO LIFT POWER LINES, TEMPORARILY SUPPORT UTILITIES, AND/OR RELOCATE UTILITIES. ONLY MANITOBA HYDRO STAFF WILL BE PERMITTED TO LIFT POWER LINES.
7. MH-A TO HAVE MIN. 872 DIAMETER BLANK FRAME AND COVER (TF-113CB OR APPROVED EQUAL IN ACCORDANCE WITH THE SPECIFICATIONS). REDUCER TO BE SIZED APPROPRIATELY TO SUIT.

MAXIMUM PERMISSIBLE LIQUID LEVEL ELEVATIONS	
MANHOLE	ELEVATION
MH-A	223.03

TEMPORARY BY-PASS PUMPING NOTES:

1. CONTRACTOR TO PROVIDE TEMPORARY BY-PASS PUMPING OF FLOWS THROUGHOUT THE PROJECT AS REQUIRED.
2. CONTRACTOR TO PROVIDE BY-PASS PUMPING PLAN AND OSS TO CONTRACT ADMINISTRATOR FOR REVIEW A MINIMUM OF TWO (2) WEEKS PRIOR TO COMMENCEMENT OF ANY WORK. REFERENCE TENDER SPECIFICATIONS..
3. PERMANENT TEMPORARY BY-PASS PUMPING TO FACILITATE THE LIFT STATION UPGRADES TO BE FROM NEW 1800ø MANHOLE (MH-A) TO NEW BY-PASS MANHOLE (MH-B).
4. MANHOLE A (MH-A) MAY BE INSTALLED WITH 1.0 DEEP SUMP TO BE USED FOR TEMPORARY BY-PASS PUMPING DURING CONSTRUCTION. SUMP TO BE FILLED WITH CONCRETE AT END OF PROJECT.
5. INITIAL TEMPORARY BY-PASS PUMPING IS REQUIRED TO FACILITATE INSTALLATION OF THE PERMANENT BY-PASS PUMPING INFRASTRUCTURE (MH-A AND MH-B). INITIAL TEMPORARY BY-PASS PUMPING SHALL INCLUDE CONSIDERATIONS FOR INSTALLATION OF A TEMPORARY TEE CONNECTION AT LOCATION C AND CUSTOM MANUFACTURING OF MH-A (IE. HORSESHOE MANHOLE) OR AS REQUIRED TO SUIT THE CONTRACTOR'S MEANS AND METHODS. CONTRACTOR SHALL INCLUDE PLANS FOR INITIAL TEMPORARY BY-PASS PUMPING IN BY-PASS PUMPING AND OSS SUBMITTALS FOR REVIEW AND APPROVAL (REFERENCE TENDER SPECIFICATIONS).
6. FURTHER TO NOTE 4, ANY TEMPORARY FITTINGS OR APPURTENANCES INSTALLED TO SUPPORT THE INITIAL TEMPORARY BY-PASS PUMPING SHALL BE REMOVED UPON INSTATEMENT OF THE PERMANENT TEMPORARY BY-PASS PUMPING PLAN AND/OR FOLLOWING COMPLETION OF THE WORKS.
7. TEMPORARY BY-PASS PUMPS MUST BE CAPABLE OF PUMPING THE PDWF = 18.3 L/S.
8. REDUNDANT PUMP REQUIRED ON SITE AT ALL TIMES DURING BY-PASS PUMPING.
9. SEWAGE LEVEL IN SYSTEM MUST NEVER EXCEED THE STATED MAXIMUM PERMISSIBLE LIQUID LEVELS. CONTRACTOR TO PROVIDE REGULAR INSPECTION AND MONITORING OF UPSTREAM FLOW ELEVATION DURING BY-PASS PUMPING.
10. THE CONTRACTOR MAY BE REQUIRED TO WORK EVENINGS, NIGHTS AND WEEKENDS WHERE REQUIRED TO MINIMIZE FORCEMAIN AND SEWERMAIN INTERRUPTIONS DURING THIS PROJECT.
11. ALL INSTRUMENTATION IN LIFT STATION AND MANHOLES SHALL BE PROTECTED AND AVOIDED AT ALL TIMES.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES
0.0 5.0 10.0 15.0 20.0

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.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	2023 03 24	RBO

KGS GROUP

DESIGNED BY	NGV	CHECKED BY	RBO
DRAWN BY	GEL	APPROVED BY	RBO
SCALE: HORIZONTAL	1:150	RELEASED FOR CONSTRUCTION	
VERTICAL	–		
DATE	2023 03 24	DATE	

PLOT DATE: 2023 03 24

ENGINEER'S SEAL
PROVINCE OF MANITOBA 2023-03-24 R. B. OFFMAN Member 22870 REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
22-0107-004-C01

BID OPPORTUNITY: 864-2022

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT PUMPING STATION
2022 UPGRADES
TEMPORARY BY-PASS PUMPING
PLAN AND DETAILS
S-MA70017062

SHEET 52 OF 109

CITY DRAWING NUMBER
1-0162L-C0001-001

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