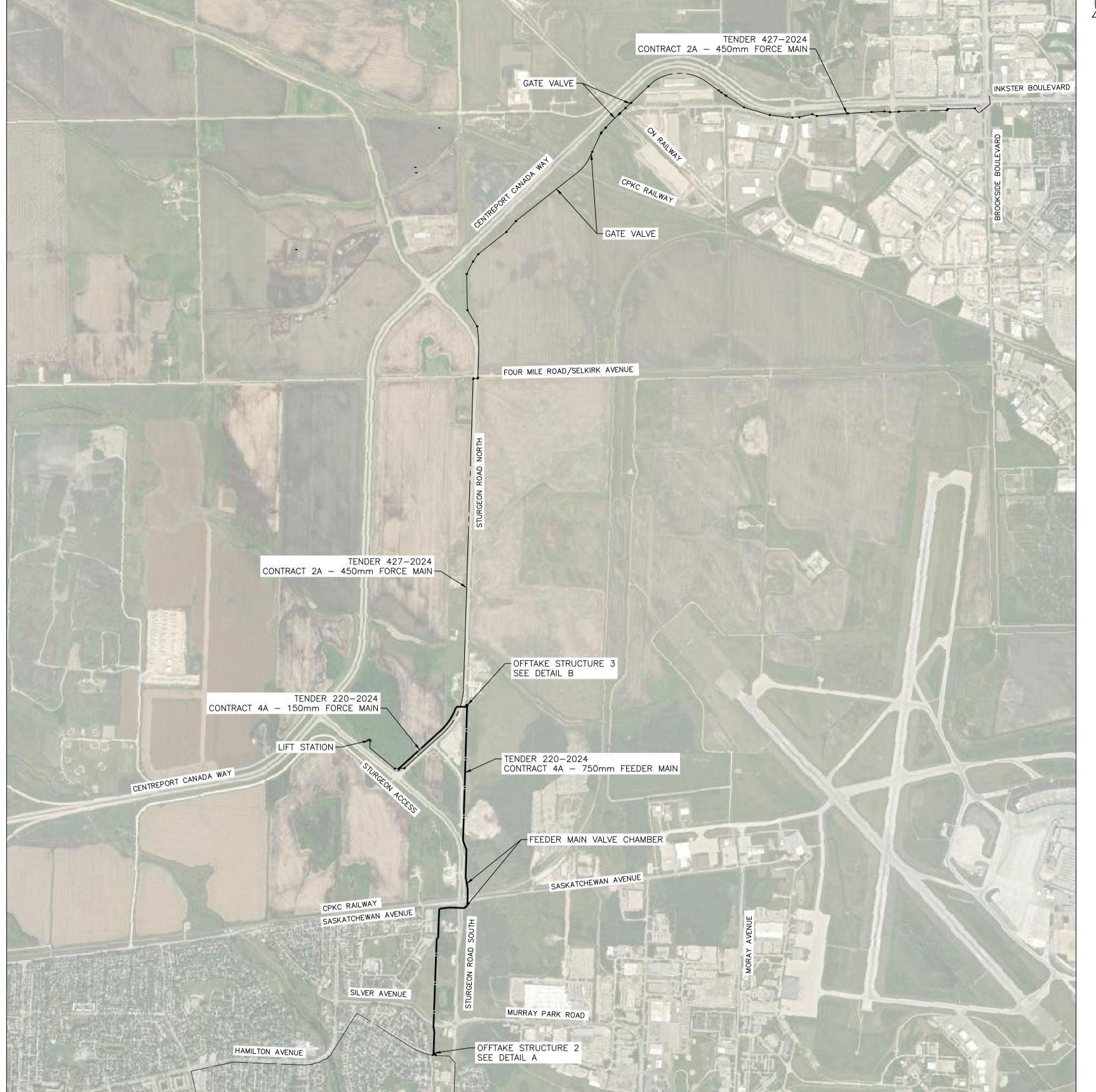
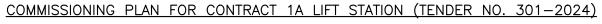
APPENDIX D

WATER FOR COMMISSIONING PLAN





WATER USED FOR COMMISSIONING SHALL BE DRAWN THROUGH THE 750mm FEEDER MAIN AND DISCHARGED INTO THE LIFT STATION'S UPSTREAM GRAVITY SEWER SYSTEM AT MH-04 VIA THE 150mm FORCE LINE CONSTRUCTED AS PART OF CONTRACT 4A FEEDER MAIN (TENDER 220-2024). DESCRIBED HEREIN ARE THE MINIMUM REQUIREMENTS AND EXPECTATIONS FOR THE PURPOSE OF SUPPLYING WATER TO THE CENTERPORT SOUTH - PHASE 1A LIFT STATION. ALL WATER USED FROM CITY SOURCES WILL BE CHARGED TO CONTRACTOR AS PER SPECIFICATION E40. ANY CHANGE OR ALTERATION TO THIS PLAN WILL REQUIRE REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR AS PER B7 OF THE SPECIFICATIONS.

STAGE 1: COMMISSIONING FOR CONTRACT 4A FEEDER MAIN

HYDROSTATIC PRESSURE TESTING OF THE 750mm FEEDER MAIN AND THE 150mm FORCE MAIN WERE COMPLETED UNDER TENDER 220-2024. 1. TENDER 220-2024 CONCLUDED BY REPLACING A SPOOL PIECE IN OFFTAKE STRUCTURE 2 (OS 2) BETWEEN THE WYE AND BUTTERFLY VALVE WITH A BLIND FLANGE TO FULLY SEPARATE THE NEW 750mm FEEDER MAIN SYSTEM FROM THE EXISTING SYSTEM UNTIL THE LIFT STATION IS READY TO BE FULLY COMMISSIONED. THIS IS SHOWN ON SHEET 2 OF THIS APPENDIX.

2. DISINFECTION OF THE FEEDER MAIN WAS NOT COMPLETED UNDER TENDER 220-2024. DISINFECTION OF THE ENTIRE 750mm FEEDER MAIN IS TO BE COMPLETED UNDER THIS TENDER.

STAGE 2: COMMISSIONING FOR CONTRACT 2A FORCE MAIN

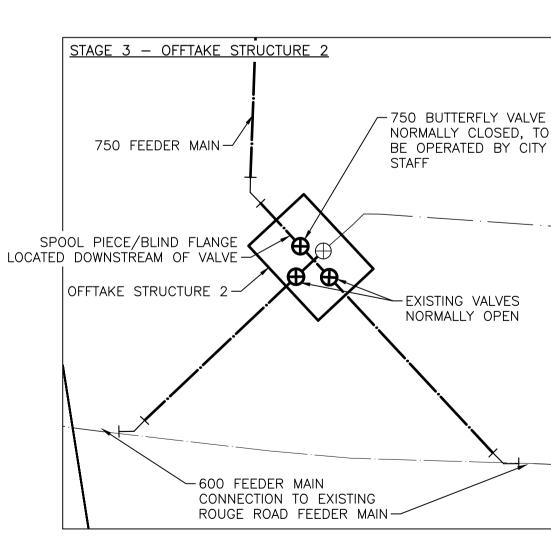
THE PORTION OF THE 450mm FORCE MAIN INSTALLED UNDER TENDER 427-2024 WAS ALSO HYDROSTATICALLY TESTED AND PIGGED UNDER THE SAME TENDER.

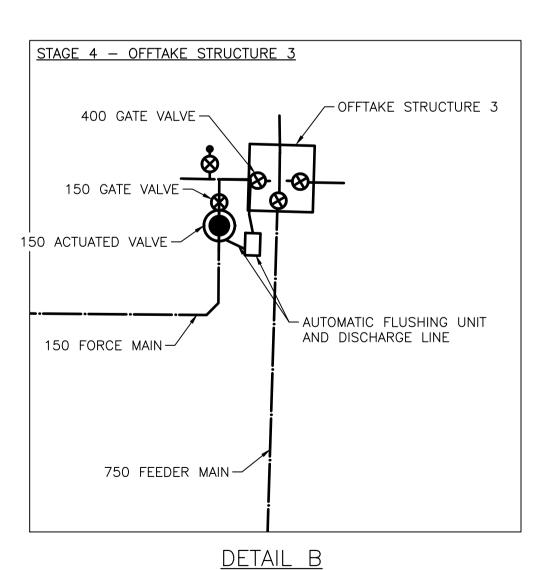
STAGE 3 - DISINFECT THE 750mm FEEDER MAIN

- 1. REMOVE BLIND FLANGE DOWNSTREAM OF 750 VALVE IN OS 2 AS SHOWN IN DETAIL A BELOW AND SHEET 2 OF THIS APPENDIX AND INSTALL CITY SUPPLIED SPOOL PIECE TO RECONNECT THE 750mm FEEDER MAIN SYSTEM TO THE EXISTING WATER DISTRIBUTION NETWORK. 2. COORDINATE WITH CITY STAFF TO OPERATE 750mm BUTTERFLY VALVE IN OS 2.
- 3. COMPLETE DISINFECTION OF THE FEEDER MAIN IN ACCORDANCE WITH CW 2125 AND AS AMENDED BELOW AND IN SPECIFICATION SECTION
- 4. UTILIZE EXISTING BLOW OFF VALVES AT OS 3 AS REQUIRED TO RELEASE ANY ENTRAPPED AIR DURING THE PIPE FILLING OPERATION. 5. SLOWLY FILL THE FEEDER MAIN WHILE INJECTING CHLORINE SOLUTION INTO THE PIPING VIA ONE OF THE BLOW OFF VALVES IN OS 2 AT
- THE RATE SPECIFIED IN E41. 6. SAMPLE CHLORINE RESIDUALS AT BOTH VALVE CHAMBERS AND OS 3 TO ENSURE RESIDUALS ARE WITHIN THE ACCEPTABLE RANGE INDICATED IN CW 2125 THROUGHOUT THE ENTIRE FEEDER MAIN.
- 7. ONCE ACCEPTABLE RESIDUAL LEVELS ARE CONFIRMED, ISOLATE AND MAINTAIN FOR 24 HOURS. 8. AFTER 24 HOURS, DETERMINE THE CHLORINE RESIDUAL IN ACCORDANCE WITH CW 2125. ACCEPTABLE MINIMUM FREE CHLROINE RESIDUAL
- AFTER 24 HOURS IS 10 mg/L. 9. COMPLETE BACTERIOLOGICAL SAMPLING IN ACCORDANCE WITH CW 2125.
- 10. REPEAT STEPS 1 9 IF BACTERIOLOGICAL SAMPLES FAIL.

STAGE 4 - SUPPLY WATER FOR LIFT STATION COMMISSIONING

- 1. COORDINATE WITH CITY STAFF TO OPEN 400mm GATE VALVE IN OFFTAKE STRUCTURE 3 AND BOTH 150 CONTROL VALVES ON THE 150mm FORCE MAIN AS SHOWN ON SHEET 3 OF THIS APPENDIX.
- 2. SUPPLY WATER TO THE LIFT STATION AS REQUIRED FOR COMMISSIONING BY FLUSHING WATER THROUGH THE 150mm FORCE MAIN INTO THE DOWNSTREAM GRAVITY SEWER SYSTEM WHICH DRAINS TO THE LIFT STATION.





<u>DETAIL A</u>

KGS

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Winnipeg ENGINEERING DIVISION

CENTREPORT SOUTH REGIONAL WATER AND WASTEWATER SERVICING - PHASE 1A CONTRACT 1A - LIFT STATION

COMMISSIONING PLAN

APPENDIX D

SHEET 1 OF 3

APPENDIX D BID OPP: 301-2024 CONTRACT NUMBER: 1A

CONSULTANT DRAWING NUMBER

ENGINEER'S SEAL

FILE PATH: U:\FMS\23-0107-009\ FILE NAME: Contract 1A - Commissioning Plan.dwg

METRIC 0.6 0.9 1.2km WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

UNDERGROUND STRUCTURES HORIZONTAL DATUM: NAD83 (June 1990), Zone 14 SUPV. U/G STRUCTURES COMMITTEE 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

LOCATION APPROVED

UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

VERTICAL DATUM: CGVD28 (HT2.0 Geoid)

DESIGNED GTH DRAWN GTH

CHECKED APPROVED RELEASED FOR CONSTRUCTION HORIZONTAL AS NOTED ISSUED FOR TENDER 24/06/19 GTH DATE 2024 06 17 DATE YYYY/MM/DD BY

