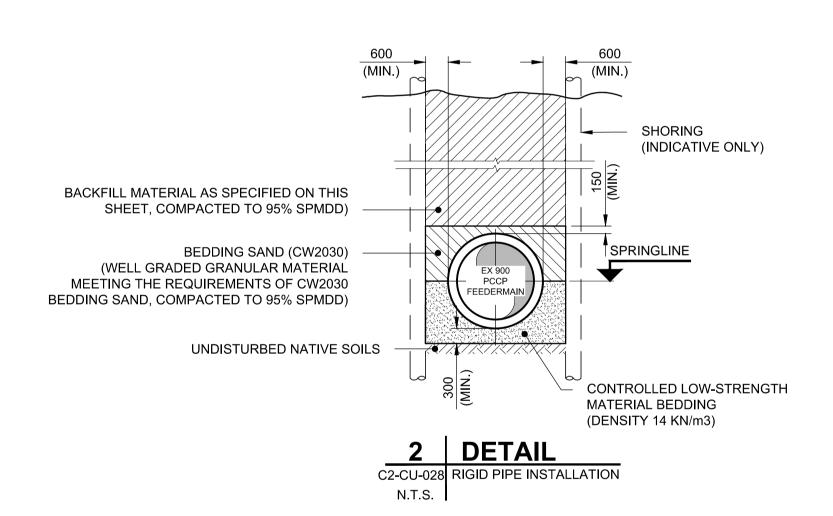
SCALE 1:500



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.
- TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

LEGEND - PLAN

OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

150 WM

EXISTING

PIPE ABANDONMENTS 150 WM WATER MAIN WATER MAIN ----- HYDRANT SURVEY BAR **HYDRANT** -6-**-**+ \otimes VALVE • o` CURB STOP VALVE 300 LDS LAND DRAINAGE SEWER REDUCER 300 LDS LAND DRAINAGE SEWER —⊨ 250 WWS WASTE WATER SEWER COUPLING WASTE WATER SEWER _____ 250 WWS -xSEWER SERVICE PIPE ANODE PAVEMENT CROWN _ _ _ DRAINAGE CONNECTION PIPE HYDRO N/W PROPERTY LINE S/E PROPERTY LINE \circ MANHOLE MTS $\overline{}$ CATCH BASIN GAS N/W GUTTER ___ \triangle CURB INLET TESTHOLE S/E GUTTER LAMP STANDARD CULVERT

LEGEND - PLAN

NEW

EXISTING

LEGEND - PROFILE

NEW

•••

EXISTING

NEW

UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES DATE

AECOM ELEV. DESIGNED CHECKED ADB DRAWN APPROVED RELEASED FOR HOR. SCALE AS NOTED CONSTRUCTION VERTICAL AS NOTED 0 ISSUED FOR TENDER 17/01/09 DATE BY NO. REVISIONS DATE

ENGINEER'S SEAL

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BRAUN

Member

24453

PROFESSIONAL

CONSULTANT PROJECT NUMBER

60321148

- CONTRACTOR TO SUBCUT EXISTING TRENCH BACKFILL COMPLETED UNDER CONTRACT 1 (472-2016) AND INSTALL GEOGRID AND GRANULAR BENCHING WHERE SHOWN
- SUBCUT AND GEOGRID/GRANULAR BENCHING TO BE INSTALLED BENEATH THE NEW MAINLINE TRACK LOCATION AND EXTEND A MINIMUM OF 3.0m FROM THE TRACK CENTRELINE
- MATERIAL USED FOR BACKFILL OF THE MIDTOWN FEEDERMAIN CASING EXCAVATION SHALL MEET THE REQUIREMENTS OF CW2030 TYPE 1 MATERIAL EXCEPT AS MODIFIED HEREIN:
- (i) MATERIAL MUST BE THAWED. FROZEN MATERIAL WILL NOT BE PERMITTED.
- (ii) MATERIAL SHALL BE A WELL GRADED AND READILY COMPACTABLE GRANULAR MATERIAL. OPEN GRADED MATERIAL (CLEAN STONE) WILL NOT BE PERMITTED.
- (iii) LIMESTONE MATERIAL WILL NOT BE PERMITTED.
- (iv) MATERIAL SHALL NOT CONTAIN MORE THAN 5% PASSING AN 80 μm SIEVE.

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES



BID OPPORTUNITY NO. 473-2016

C2-CU-029

THE CITY OF WINNIPEG

| MC/NEER THE | Winnipeg | PUBLIC | WORKS | DE | PARTI | MENT | • |
|-------------|---|---------------------------------|----------|--|-----------------|----------------|----|
| | WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB CONTRACT 2: UNDERPASS STRUCTURE, RAILWORKS, | | | CITY DRAWING NUMBER U239-2016-C2-CU-02 | | | |
| | ROADWORKS, LAND D AND L | PRAINAGE SEWER ANDSCAPING WO | • | ON | SHEET 29 | of 4 | 1 |
| UMBER | EXISTING N | IIDTOWN FEE | DER MAIN | | CONSULTANT | DRAWING NU | JM |

RAIL CROSSING CASING PIPE DETAILS