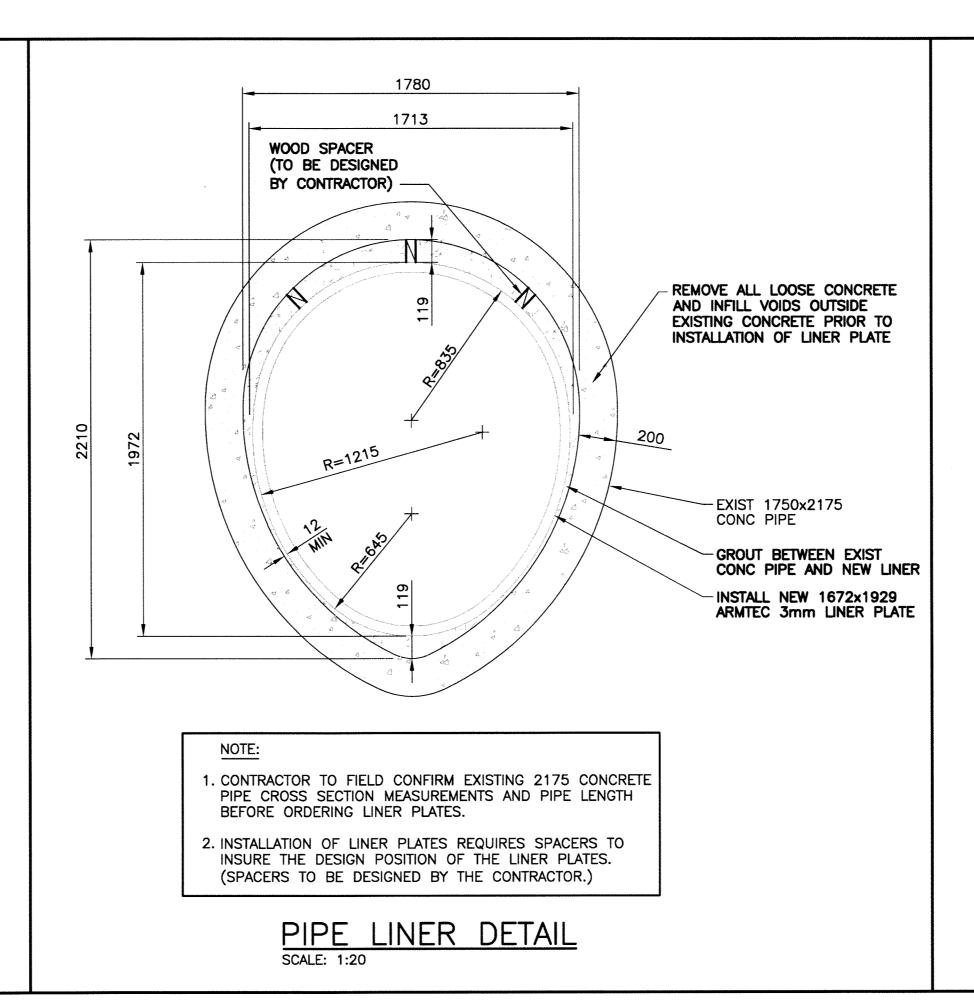
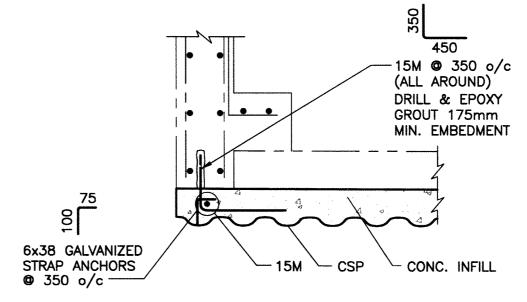


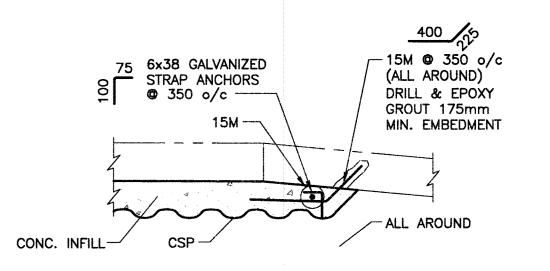
PUMPING STATION CONSTRUCTION ACCESS DETAIL
SCALE: 1:20



BEFORE PROCEEDING WITH CONSTRUCTION.

NO. REVISIONS









NOTE

GENERAL CONCRETE NOTES:

- 1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CAN/CSA-A23.1/A23.2 (LATEST). SEE SPECIFICATIONS FOR MIX REQUIREMENTS.
- 2. CONCRETE MATERIALS, FORMING, PLACING, FORM REMOVAL, REINFORCING, ETC. TO ACI RECOMMENDATIONS AND ACCEPTABLE PRACTICE.
- 3. MIX WATER SHALL BE POTABLE. CALCIUM CHLORIDE SHALL NOT BE USED.
- 4. PROVIDE ADEQUATE PROTECTION FOR CONCRETE DURING CURING PERIOD.

## REINFORCING STEEL

- 1. REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CAN/CSA G30.18-M92. GRADES TO BE; 400 MPa FOR 15M BARS AND LARGER; 300 MPa FOR 10M BARS.
- 2. REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH CONCRETE.
- 3. PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING AS SHOWN ON DRAWINGS.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

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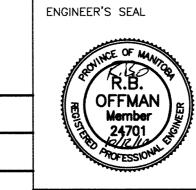
Certificate of Authorization

KGS Group
No. 245 Date: <u>Dec /0,2αο</u>

**KGS** LOCATION APPROVED B.M. UNDERGROUND STRUCTURES GROUP CONSULTING ENGINEERS SUPV. U/G STRUCTURES DATE COMMITTEE CHECKED BY DESIGNED **RBO** LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION DRAWN BY APPROVED 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 RELEASED FOR 10/12/10 R30 HOR. SCALE: 1:250 10/12/06 RBO VERTICAL: 1:50 RE-ISSUED FOR TENDER CONSTRUCTION: OBTAINED FROM THE INDIVIDUAL UTILITIES O ISSUED FOR TENDER 10/12/06 RBO

DATE BY DATE 10/10/01

DATE



CONSULTANT DRAWING NO. 10-0107-18\_05

Winnipeg

THE CITY OF WINNIPEG WATER & WASTE DEPARTMENT

2010 OUTFALL REPAIRS

POLSON AVENUE LINING SECTIONS

AND MISCELLANEOUS DETAILS

CAD FILE DRAWING NUMBER
POLSON RR-83

CITY DRAWING NUMBER

LD-5585

P:PROJECTS\2010\10-2010-18\DWG\POLSON RR-83\POLSON