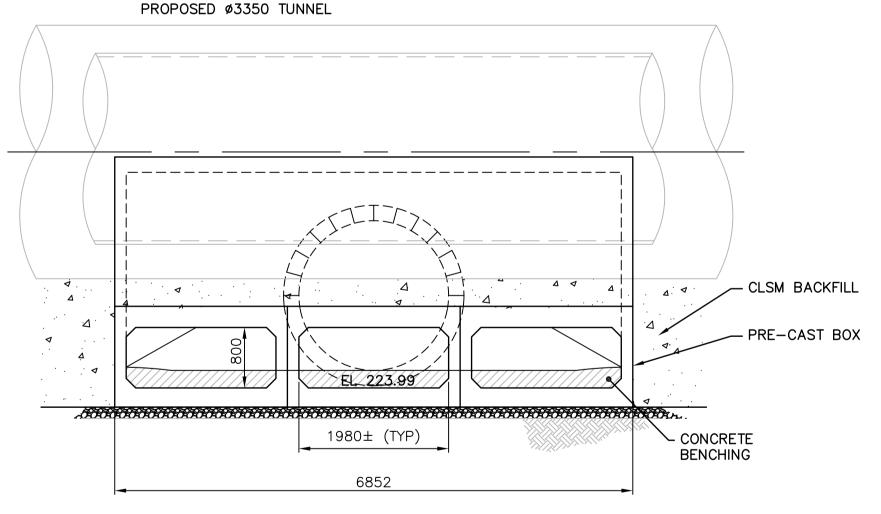


SECTION (STA 2+339.43)

LOADING SCENARIOS

- 1. DEAD LOADS: CLSM BACKFILL. LIVE LOADS: TRAFFIC.
- 2. DEAD LOADS: CLSM BACKFILL: LIVE LOADS: TBM AND TRAFFIC.
- 3. DEAD LOADS: CLSM BACKFILL + PIPE WEIGHT PIPE VOID. LIVE LOADS: TRAFFIC.
- 4. DEAD LOADS: CLSM BACKFILL + PIPE WEIGHT + FULL PIPE WATER. LIVE LOADS: TRAFFIC.
- ALL SCENARIOS WOULD BE SUBJECT TO UPLIFT AND SANITARY SEWER FLOWS





RECOMMENDED CONSTRUCTION SEQUENCE

- 1. INSTALL TEMPORARY BYPASS PUMPING FOR SANITARY FLOWS. 2. SUPPORT EXISTING TILE SEWER AT EXTENT OF EXCAVATION.
- 3. EXPOSE EXISTING CLAY TILE SEWER AND CONFIRM LOCATION AND DIMENSIONS.
- 4. DEWATER EXCAVATION TO A MIN. 300mm BELOW SUBGRADE. 5. EXCAVATE AND REMOVE EXISTING TILE SEWER WITHIN
- WORKING LIMITS. 6. PREPARE SUBGRADE.
- 7. INSTALL CIP UNITS AND CAST COLLAR.
- 8. INSTALL BENCHING AND GROUT GAPS WITHIN THE TILES AT
- THE UP AND DOWNSTREAM LOCATIONS. 9. BACKFILL WITH CLSM TO UNDERSIDE OF ROAD SUBGRADE.
- 10. REINSTATE TAYLOR AVENUE.
- 11. TUNNEL 3350 THROUGH CLSM AND MONITOR FOR
- SETTLEMENT/ MOVEMENT.

CONSTRUCTION NOTES:

FOR CONSTRAINTS.

- 1. SEWER AND WATER SERVICES SHOWN ON DRAWING ARE
- APPROXIMATE ONLY. 2. LOCATION OF ALL SEWER AND WATER LINES TO BE
- CONFIRMED IN FIELD.
- 3. DRY WEATHER CONSTRUCTION ONLY. 4. TRAFFIC MANAGEMENT PLAN TO BE IMPLEMENTED AS PER
- SPECIFICATIONS DURING EACH PHASE OF CONTRACT. 5. CONTRACTOR TO DESIGN TEMPORARY SHORING WORKS. SEE TRAFFIC RESTRICTIONS WITHIN THE DETAIL SPECIFICATIONS
- 6. CONTRACTOR TO TEMPORARILY SUPPORT CLAY TILES
- DURING INSTALLATION. 7. CONTRACTOR TO PROVIDE TEMPORARY BYPASS PUMPING.
- 8. PRECON PRE-CAST CONCRETE STRUCTURES OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- 9. PRE-CAST UNITS TO BE SEALED WATER TIGHT IN ACCORDANCE WITH PRE-CAST MANUFACTURER'S
- RECOMMENDATIONS. 10. CONTRACTOR TO ENSURE CAST IN PLACE STRUCTURE HAS
- BEEN DESIGNED FOR TEMPORARY LOADS FROM TBM AND LONG TERM PERMANENT LOADINGS. CONTRACTOR TO PROVIDE SHOP DRAWINGS SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN MANITOBA.
- 11. MINIMUM FINAL CROSS SECTION FLOW AREA OF 2.986m2 WITH FINAL BENCHING IN PLACE.

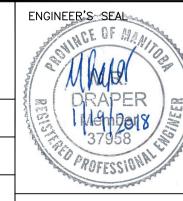
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Certificate of Authorization

CH2M HILL Canada Ltd.

No. 1441

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CONSULTANT DRAWING NO. S - 505



COCKBURN AND CALROSSIE COMBINED SEWER RELIEF WORKS - CONTRACT 5 STRUCTURAL

22 OF 25 COMPUTER FILE NAME S-505.dwgCITY DRAWING NUMBER

LD-8433

SHEET OF

MODIFICATION OF EXISTING 1950 SEWER SHEET 1 OF 2