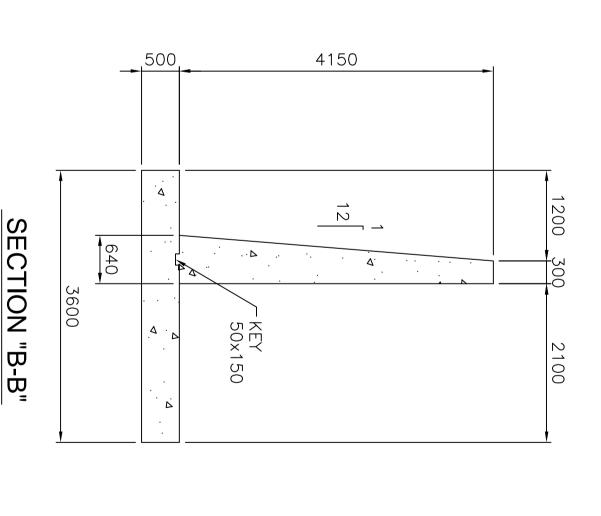
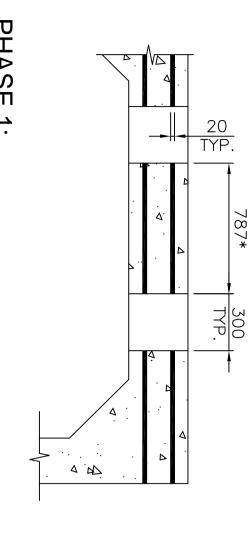


E.



 $\Box$ 

ELEVATION



### PHASE 1:

- 1) CUT OPENINGS IN EXISTING CULVERT DRILLING TOP TO ALLOW ACCESS
- 2) DRILL HOLES-SLEEVES IN THE PROPOSED POST-TENSIONING TOP ALONG THE LAYOUT 유 ĦΕ

### 787\* DIMENSION VERIFIED IN THE TO BE FIELD

TECHNI-GESTION J.C. Inc. (514) 425-3630

NOTE: WIDTH 유 POCKET T0 MAT <u>5</u> HH. THICKNESS 유 TOP

HEADWALL



### PHASE 2:

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- THRED POST-TENSIONING STRANDS ALONG TOP LENGTH THRU HOLES
   INJECT EPOXY INTO SLEEVES AROUND STRAND PERIMETER
   POUR CEMENT-GROUT TO CLOSE POCKETS
   AFTER CEMENT-GROUT REACHES ITS STRENGTH, APPLY POST-TENSIONING

## Issued for construction Accember 10,2010 Datama Judicovic, F.Eng

### **FOOTING NOTES:**

- FOR GENERAL NOTES SEE DWG AA840-201.01-5.01
- FOR GEOTECHNICAL NOTES SEE DWG AA840-201.01-5.02
- FIELD CONFIRM ALL DIMENSIONS RELATED TO THE EXISTING STRUCTURE. RESOLVE WITH DESIGN ENGINEER ALL DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- CRUSHED STONE. BOTTOM OF FOOTING SHALL BE FOUNDED ON 300mm LAYER OF
- FOR A 1000 MM WIDE FOOTING, THE FOLLOWING DESIGN PARAMETERS WERE USED: BEARING SURFACE TO BE INSPECTED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO FOOTING CONSTRUCTION.
- NET BEARING CAPACITY 750 KPA
- ALLOWABLE BEARING CAPACITY PRIMARY + SECONDARY LOADS ALLOWABLE BEARING CAPACITY PRIMARY LOADS 375 KPA 250 KPA
- MINIMUM CONCRETE COVER FOR MAIN REINFORCING SHALL BE 50mm UNLESS NOTED OTHERWISE.
- ALL EXPOSED CONCRETE EDGES SHALL BE GIVEN A  $20\mathrm{MM}$  X  $20\mathrm{MM}$  CHAMFER.

#### NOTES:

- FOR GENERAL NOTES SEE DWG. AA840-201.01-5.1.
  CONCRETE: ACI 318 OR CSA CAN-A23.1 AND A23.2-2005. MINIMUM SPECIFIED COMPRESSIVE STRENGTH SHALL BE AT 35MPa. AT 28 DAYS.
- GRADE 400 MPa. REINFORCING STEEL ASTM A615, GRADE 60 OR CAN/CSA G30.18,
- DYWIDAG MONOSTRAND POST-TENSIONING SYSTEM CONFORMS TO ASTM A-416.
- DOWELS TO BE INSTALLED INTO EXISTING CONCRETE USING HILTI HY150 OR APPROVED EQUAL
- CEMENT GROUT TO REACH STRENGTH OF 25 MPa IN 7 DAYS, 35 MPa IN 28 DAYS.
- EPOXY RESIN THAT FILLS SLEEVES FOR POST-TENSIONING STRANDS AND VERTICAL DOWELS TO BE HIT HY 150.
- CHAMFER. MINIMUM CONCRETE COVER FOR MAIN REINFORCING SHALL BE 50mm. ALL EXPOSED CONCRETE EDGES SHALL BE GIVEN A 20MM X 20MM

. 39 m³

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REINFORCING STEEL 35 MPa CONCRETE 5,310 kgs.

SENIOR STRUCTURAL ENGINEER

| Div              | No.      |                   |                         | ≻                |  |
|------------------|----------|-------------------|-------------------------|------------------|--|
| Division GRI     | Date     | NOV 23, 2009      | FEB 16, 2010            | NOV 19, 2010     |  |
| GREAT LAKES      |          | ISSUED FOR TENDER | ISSUED FOR CONSTRUCTION | GENERAL REVISION |  |
| Sub-<br>division | Revision | NDER              | NSTRUCTION              | ON               |  |
| KINGSTON         |          |                   |                         |                  |  |
| Mile<br>Mille    |          |                   |                         |                  |  |
| 201.01           |          |                   |                         |                  |  |
|                  | By/Par   |                   | DGT                     | HS               |  |

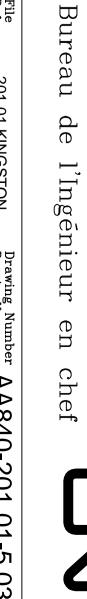
# CONCRETE BOX CULVERT

NEAR MOHAWK, ONTARIO

**CULVERT NORTH EXTENSION DETAILS** FORMWORK DETAILS

Office DGT of Designed Conception Chief DGT Engineer Checked Verification 컺 Scale Echelle 1:50 U.N. Date FEB 16, 2010





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SEVERMO File Reference 201.01 KINGSTON