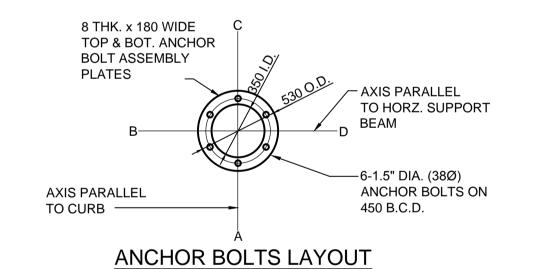


ELEVATION - LOOKING EAST OVERHEAD SIGN SUPPORT STRUCTURE NO. S768

OVERHEAD SIGN E.B. NORTH TOWN RD. @ STA 0+447.836

1:250 OVERHEAD SIGN SUPPORT STRUCTURE NO. S768



WATERMAIN

PILE CONSTRUCTION NOTES

- 1. REINFORCING STEEL
- CSA G30.12 GR. 400W VERTICAL BARS FULL LENGTH OF PILE
- HOT DIP GALVANIZED
- 2. ANCHORS BOLTS
- ASTM F1554. 380MPa 6-1.5" DIA. (38 DIA.) x 1956 LG. ANCHOR BOLTS THREADED BOTH ENDS (559 TOP & 102 BOT.)

WITHOUT THE TEMPLATE WILL NOT BE PERMITTED.

EACH BOLT C/W 5 NUTS AND WASHERS (1-BOT. END 4-TOP END). ANCHOR BOLTS CAGE ASSEMBLY HOT DIP GALVANIZED FULL LENGTH AFTER FABRICATION.

B.C.D.=BOLT CIRCLE DIAMETER TO CENTER OF BOLT GROUP. 3. ANCHOR BOLTS SHALL BE ALIGNED WITH A TEMPORARY

STEEL TEMPLATE. PLACEMENT OF ANCHOR BOLTS AND CONCRETE

- 4. FOLLOWING INSTALLATION OF THE STEEL STRUCTURE, TIGHTEN THE LOWER LEVELING NUTS AND TOP NUTS TO A SNUG-TIGHT CONDITION, FOLLOWED BY $\frac{1}{3}$ NUT ROTATION (+20"/-0") OF THE TOP NUTS.
- 5. TOP 1000mm OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE).
- 6. CONTRACTOR SHALL REMOVE THE BASE TEMPLATE, NUTS AND FORM, FOLLOWING A MINIMUM 24 HOUR CONCRETE CURING PERIOD.
- 7. CONCRETE MIX DESIGN PROPORTIONING OF FINE AGGREGATE, COARSE AGGREGATE, CEMENT, WATER, AND AIR ENTRAINING AGENT SHALL BE

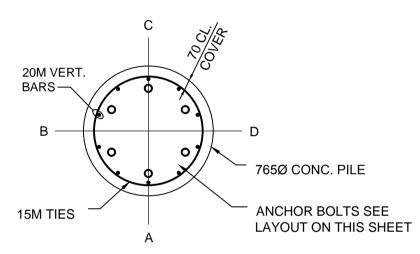
WATERMAIN

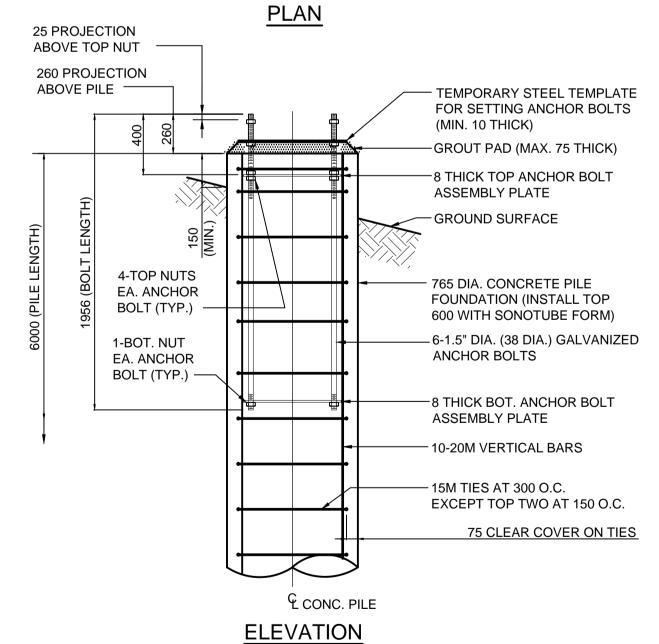
- SUCH AS YIELD CONCRETE HAVING THE REQUIRED STRENGTH AND WORKABILITY AS FOLLOWS: i) CLASS OF EXPOSURE: S-1
- ii) MINIMUM COMPRESSIVE STRENGTH AT 56 DAYS = 35 MPa iii) MAXIMUM WATER/CEMENT RATIO = 0.4
- iv) AIR CONTENT: CATEGORY 2 PER TABLE 4 OF CSA A23.1-09 (4-7%) v) CEMENT - IN ACCORDANCE WITH CSA A23.1-09

150 mm W.M.

84R635 - Lake Crest Rd. & Waverley St., Tblt on top of 0.05m dia. x 2.4m iron pipe, 14.2m N. of S.L. of Lake Crest Rd.

& 0.6m E. of E.L. of Waverley St.





METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

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. 2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL
- REGULATION 210/72 FOR DETAILS. 3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.



Stantec Consulting Ltd. No. 1301

CITY DRAWING NUMBER

| g/4 | -ф- | HYDRANT | • | | CONCRETE | •••••• | | HYDRANT | + |
|--------|-----------|---------------------|-----------|--------------|---------------|-------------|--------------------|---------------------|-------------------------|
| wi. | \otimes | VALVE | \otimes | | ASPHALT | | | VALVE | $\overline{\mathbf{x}}$ |
| /dro | 300 LDS | LAND DRAINAGE SEWER | 300 LDS | | PLANING | | 300 mm L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. |
| 751 | 250 WWS | WASTE WATER SEWER | 250 WWS | | SIDEWALK | | 250 mm W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. |
| 057 | 0 | MANHOLE | • | | PAVING STONES | | —· × ·— | ℚ PROFILE | |
| 137 | | CATCH BASIN | | | PROPERTY LINE | | | NORTH/WEST GUTTER | |
| e/ | • | TEST HOLES | • | | SURVEY BAR | | | SOUTH/EAST GUTTER | |
| ctiv | | CULVERT | | | CURB RAMP | | | NORTH/WEST T/LANE | |
| 2 | 100GAS | GAS | 100 GAS | — | DITCH | - | | SOUTH/EAST T/LANE | |
| 113 | HYDRO | HYDRO | HYDRO | | SWALE | ◆ ~~ | | | |
| · ; | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PROFILE | PROPOSED |

| 1 | UNDERGROUND STRUCTURES | B.M ELE | _. 76-030 _{V.} 232.457m | | | DESIGNED BY H.M.V. | DESIGN TEAM |
|--------------|--|------------|---|----------|--------|-----------------------|---------------------------|
| | | | | | | DRAWN BY T.G. | 90 |
| | SUPV. U/G STRUCTURES DATE COMMITTEE | | | | | CHECKED BY K.S.A. | |
| | NOTE: | | | | | APPROVED 1/ 0 A | Stantec |
| \mathbf{I} | LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN | 2 | ISSUED FOR TENDER | 13/04/08 | K.S.A. | BY K.S.A. | |
| 1 | THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT | 1 | ISSUED FOR REVIEW | 13/03/27 | | HOR. SCALE | RELEASED FOR CONSTRUCTION |
| 1 | LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. | 0 | ISSUED FOR 90% REVIEW | 13/02/22 | K.S.A. | VERTICAL | |
|) | BEI GIVE TINGGEEDING WITH GONSTINGGHON. | NO. | REVISIONS | DATE | BY | DATE | DATE |

| ENGINEER'S SEAL ONLY O |
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| AMY AMY |
| MEMBER 23572 POFESSIONAL |
| CONSULTANT PROJECT NUMBER |

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CITY OF WINNIPEG IC WORKS DEPARTMENT

| WWARP PART 3 - CONTRACT 1 |
|---------------------------|
| STA 2+922.4 TO STA 5+935 |

S768 NORTH TOWN ROAD EB W. OF KENASTON BOULEVARD OVERHEAD SIGN LOCATION & DETAILS

| S768-2013-01 | | | | | | |
|--------------|---------|--------|--|--|--|--|
| EET | ET OF | | | | | |
| 5 | 53 | 64 | | | | |
| NSULTANT | DRAWING | NUMBER | | | | |
| C-505 | | | | | | |