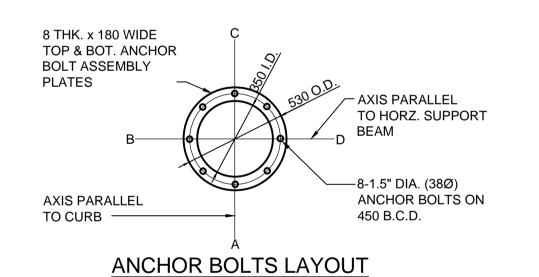


KENASTON BLUD ? ဟ

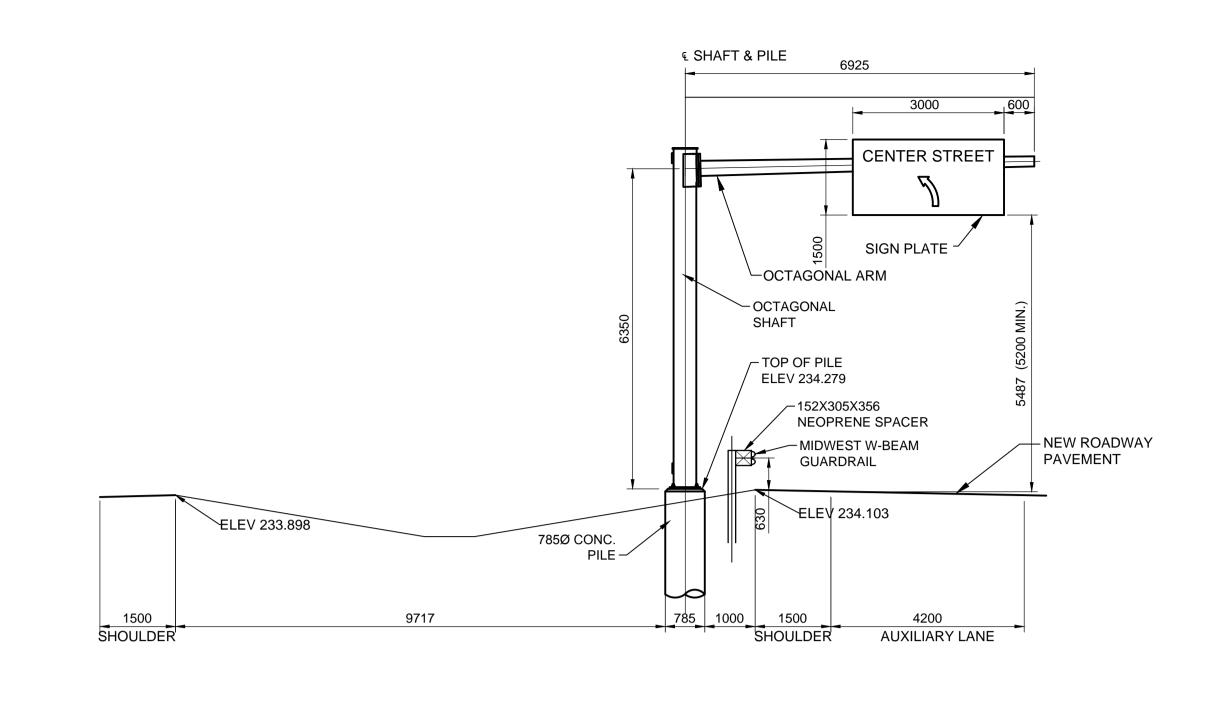
OVERHEAD SIGN @ STA 3+011 (KENASTON BLVD. N.B. CONTROL) 1:250 OVERHEAD SIGN SUPPORT STRUCTURE NO. S767



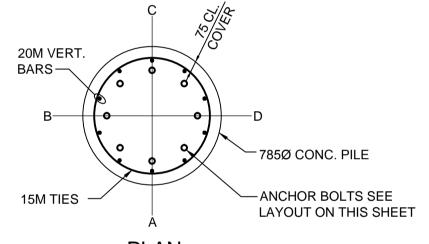
PILE CONSTRUCTION NOTES

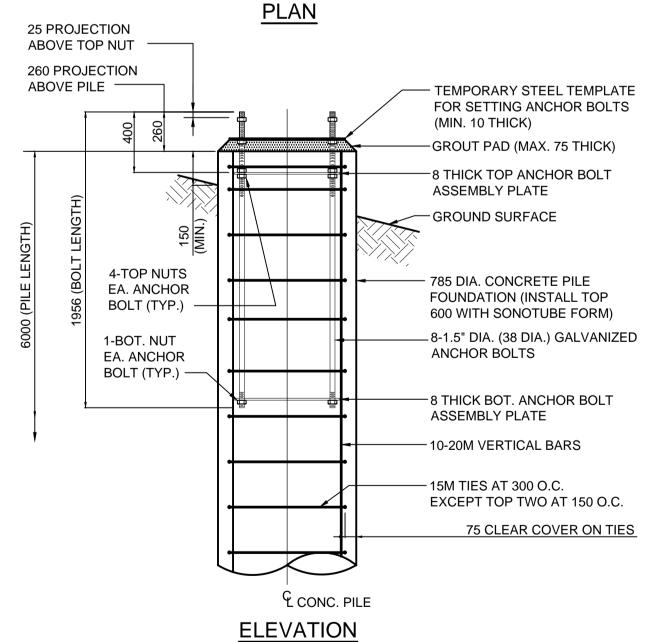
- 1. REINFORCING STEEL
- CSA G30.12 GR. 400W VERTICAL BARS FULL LENGTH OF PILE
- HOT DIP GALVANIZED
- 2. ANCHORS BOLTS ASTM F1554. 380MPa
- 8-1.5" DIA. (51 DIA.) x 1956 LG. ANCHOR BOLTS THREADED BOTH ENDS (559 TOP & 102 BOT.) EACH BOLT C/W 5 NUTS AND WASHERS (1-BOT. END 4-TOP END). ANCHOR BOLTS CAGE 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 WITHOUT THE TEMPLATE WILL NOT BE PERMITTED.
- 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 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

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.



ELEVATION - LOOKING NORTH 1:75 OVERHEAD SIGN SUPPORT STRUCTURE NO. S767





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 | ON PERMITS PRIOR TO |
|----------------------|---------------------|
| CONSTRUCTION. | |

| 40 | 150 . WM | WATERMAIN | 150 WM | MTS | M.T.S. | MTS | 150 mm W.M. | WATERMAIN | 150 mm W.M. | |
|--------------|-----------|---------------------|-----------|---|---------------|--------------|--------------------|---------------------|-------------------------|----------|
| g\4 | ф | HYDRANT | • | *************************************** | CONCRETE | ************ | | HYDRANT | | l |
| 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. | C |
| .057 | 0 | MANHOLE | • | | PAVING STONES | | —· × ·— | ℚ PROFILE | | |
| 137 | | CATCH BASIN | | | PROPERTY LINE | | | NORTH/WEST GUTTER | | _ |
| e/1 | • | TEST HOLES | • | | SURVEY BAR | | ─ ——— | SOUTH/EAST GUTTER | | L(|
| cti∨ | [] | CULVERT | | | CURB RAMP | | | NORTH/WEST T/LANE | | SI A' |
| ~ | 100GAS | GAS | 100 GAS | \leftarrow | DITCH | — | | SOUTH/EAST T/LANE | | Ti C |
| 113 | HYDRO | HYDRO | HYDRO | | SWALE | ◆ ~~ | | | | Į, |
| \ <u>`</u> ; | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PROFILE | PROPOSED | В |

| | & | 0.6m E. of E.L. of Waverle | y St. | | | | | |
|---|-----|-------------------------------|----------|--------|----------------|----------|--------------|--------------------------|
| UNDERGROUND STRUCTURES | | B.M. 76-030 ELEV. 232.457m | | | DESIGNED BY | H.M.V. | DESIGN TEAM | ENGINEER'S OF MANUE |
| SUPV. U/G STRUCTURES DATE | | | | | DRAWN BY | T.G. | | K. S. |
| COMMITTEE | | | | | CHECKED BY | K.S.A. | | AMY MEMBER |
| NOTE: | | | | | APPROVED BY | K.S.A. | Stantec | MEMBER 23572 POFESSIONAL |
| LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR | 2 | ISSUED FOR TENDER | 13/04/08 | | HOD COME | AS NOTED | RELEASED FOR | 70FESSION |
| THAT THE GIVEN LOCATIONS ARE EXACT I | 1 | ISSUED FOR REVIEW | 13/03/27 | K.S.A. | HOR. SCALE | AS NOTED | CONSTRUCTION | CONSULTANT PROJECT NU |
| CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES | 0 | ISSUED FOR 90% REVIEW | 13/02/22 | K.S.A. | VERTICAL | | | |
| BEFORE PROCEEDING WITH CONSTRUCTION. | NO. | REVISIONS | DATE | BY | DATE | 09/12/12 | DATE | 113705751 |

| OTINCE | OF MA K. S. AMY | 48018 | Wi |
|---------------------|-----------------------|---------|----|
| REGISTER. | 1EMBER 23572 | CACMEER | |
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|--|----------|---------------------|----------------------------------|
| | WWARP | PART 3 - CONTRACT 1 | CITY DRAWING NUMBER S767-2013-01 |

S767 KENASTON BOULEVARD NB S. OF CENTER ST. EXIT (STA 3+011) OVERHEAD SIGN LOCATION & DETAILS

Certificate of Authorization

Stantec Consulting Ltd.

No. 1301

0

CITY DRAWING NUMBER STA 2+922.4 TO STA 5+935

| S767-2013-01 | | | |
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| CONSULTANT | DRAWING | NUMBER | |
| C | C-504 | | |