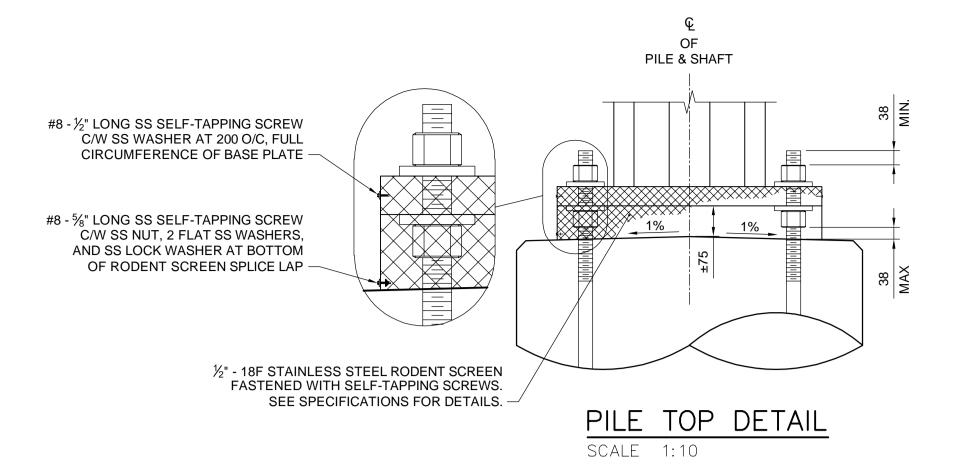


S798 ELEVATION - LOOKING EAST

CENTRE OF PILE LAYOUT TABLE		
STRUCTURE	NORTHING	EASTING
S798	5529398.934	633970.922





12-25M VERT. BARS

762 DIA. CONC. PILE

15M TIES -

CONC. PILE

8-38 DIA. ANCHOR BOLTS

ON 475 BCD C/W 4 NUTS &

2 PLATE WASHERS. SEE

ANCHOR BOLTS LAYOUT -

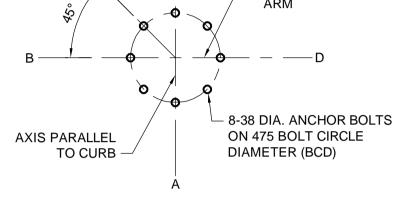


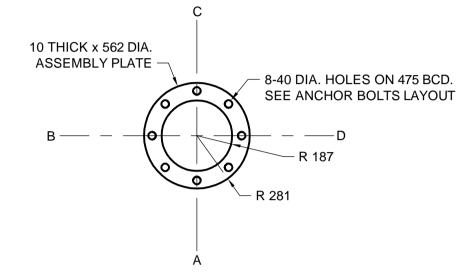
KEY PLAN

ANCHOR BOLT

SCALE 1:20

SCALE 1:1000 10 THICK x 562 DIA. - AXIS PARALLEL ASSEMBLY PLATE -TO CANTILEVER





ASSEMBLY TEMPLATE



ANCHOR BOLT ASSEMBLY TEMPLATE

(10 THICK) TO BE REMOVED PRIOR TO

ERECTION OF THE SIGN STRUCTURE

- 25 CHAMFER (TYP.)

- 15M TIES @ 200 O.C.

762 DIA. CONCRETE PILE

12-25M VERTICAL BARS

- ANCHOR BOLT ASSEMBLY TEMPLATE (10 THICK)

- 15M TIES @ 300 O.C.

BELOW ANCHOR BOLTS

75 CLEAR COVER ON TIES

8-38 DIA. GALV. ANCHOR BOLTS

C/W 4 NUTS & 2 PLATE WASHERS

FOUNDATION

FULL LENGTH OF ANCHOR BOLTS



SCALE 1: 20

1. REINFORCING STEEL

PILE CONSTRUCTION NOTES

• CSA G30.18 GR. 400W

• VERTICAL BARS FULL LENGTH OF PILE • HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A767

2. ANCHOR BOLTS

ASTM F1554 GR.55 (380 MPa)

• 8-38 DIA. ANCHOR BOLTS 2.0m LONG • EACH BOLT C/W 4 NUTS & 2 PLATE WASHERS (SEE PLATE WASHER DETAIL FOR MK. 14)

• TOP 300 THREADED UNC CLASS 2A • BOTTOM 100 THREADED UNC CLASS 2A

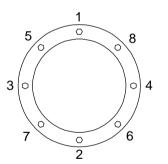
• HOT DIP GALVANIZED FULL LENGTH, IN ACCORDANCE WITH ASTM A153 CLASS C

• B.C.D. = BOLT CIRCLE DIAMETER TO CENTRE OF BOLT GROUP • ANCHOR BOLTS SHALL BE ALIGNED WITH TEMPORARY STEEL TEMPLATES. PLACEMENT

OF ANCHOR BOLTS AND CONCRETE WITHOUT THE TEMPLATES WILL NOT BE PERMITTED. • CONTRACTOR SHALL REMOVE THE TOP ANCHOR BOLT SETTING TEMPLATE, NUTS AND FORM, FOLLOWING A MINIMUM 24 HOUR CONCRETE CURING PERIOD.

• FOLLOWING INSTALLATION OF THE STEEL STRUCTURE, TIGHTEN THE LOWER LEVELING NUTS AND UPPER ANCHOR NUTS TO A SNUG-TIGHT CONDITION, FOLLOWED BY 1/3 NUT

ROTATION (+20°/-0°) OF THE UPPER ANCHOR NUTS. • ANCHOR BOLTS SHALL BE TIGHTENED USING A STAR PATTERN TIGHTENING SEQUENCE.



3. FORM TOP OF PILE WITH A TUBULAR FORM (SONOTUBE):

• 1m FOR DRILLED SHAFTS • 1.5m FOR HYDRO-EXCAVATED SHAFTS

4. 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: C-1 AND S-1

ii) MINIMUM COMPRESSIVE STRENGTH AT 56 DAYS = 35 MPa iii) MAXIMUM WATER/CEMENT RATIO = 0.40

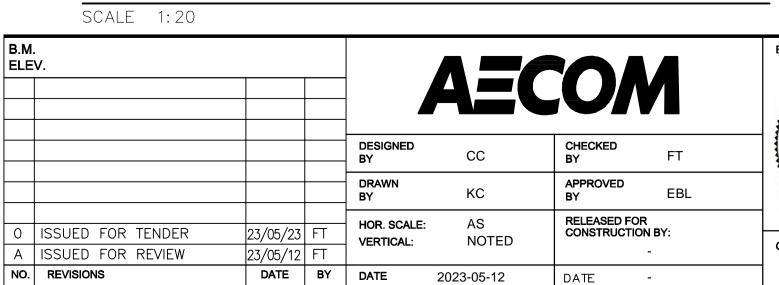
iv) AIR CONTENT: CATEGORY 1 PER TABLE 4 OF CSA A23.1-14 (5-8%) v) CEMENT IN ACCORDANCE WITH CSA A23.1-14

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ONDHIS PROJECT

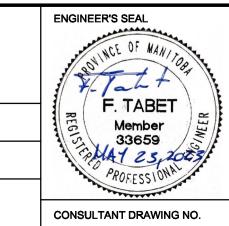
 NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS. SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES



CONCRETE PILE FOUNDATION DETAIL FOR S798



CS-01



THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT Winnipeg ENGINEERING DIVISION

2023 REGIONAL STREET RENEWAL PROGRAM LOGAN AVENUE PAVEMENT RECONSTRUCTION

S-798 EASTBOUND LOGAN OVERHEAD SIGN SUPPORT STRUCTURE GENERAL ARRANGEMENT & FABRICATION DETAILS

SHEET OF

CITY DRAWING NUMBER

S-798-23-01