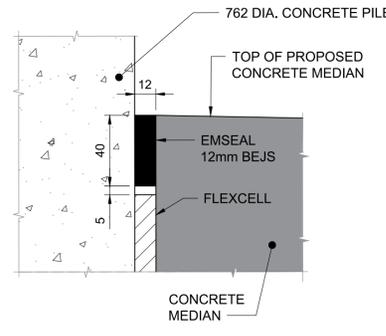
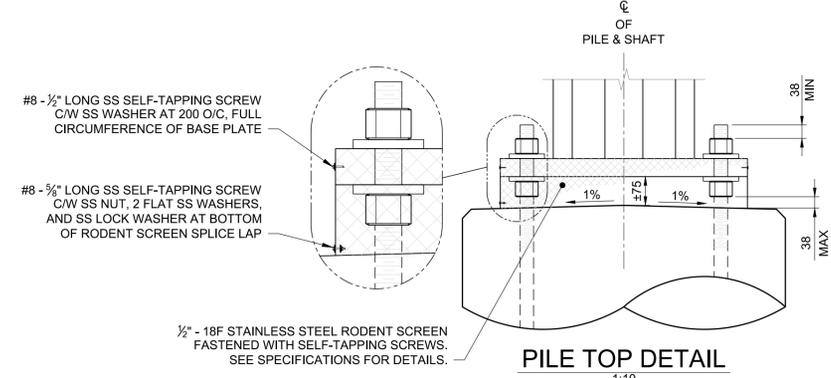


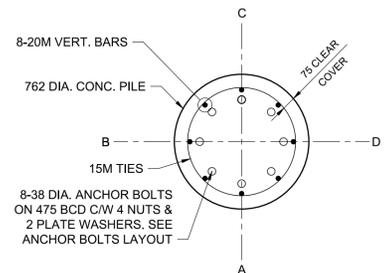
SITE PLAN
SCALE 1:250



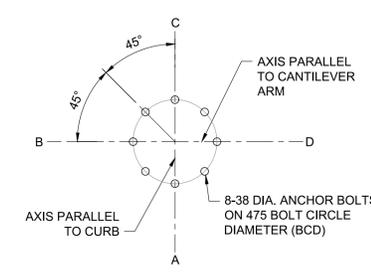
DETAIL 1 - PILE ISOLATION
1:2



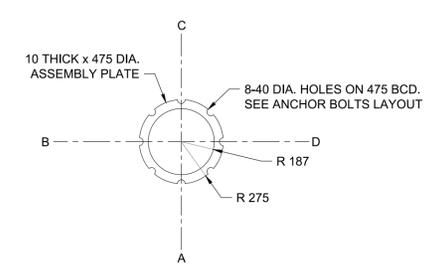
PILE TOP DETAIL
1:10



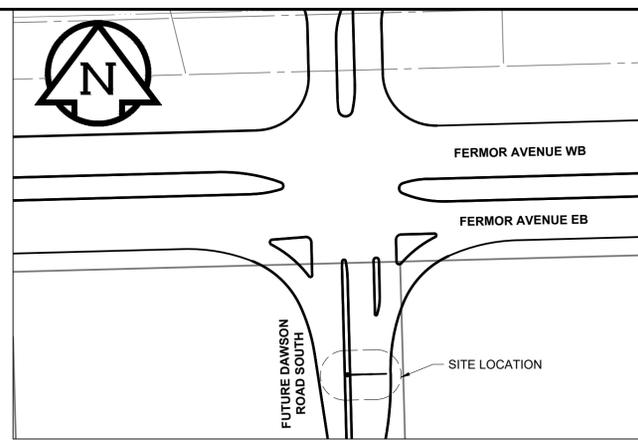
SECTION
SCALE: 1:20



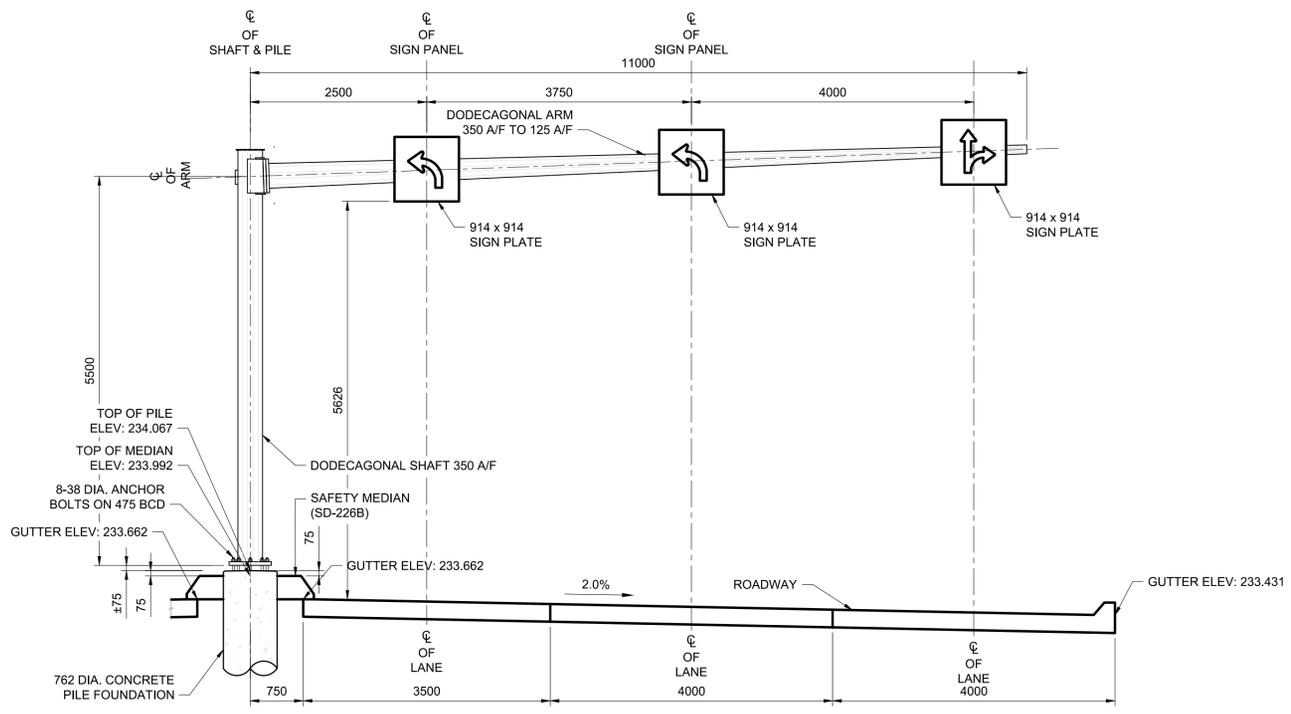
ANCHOR BOLTS LAYOUT
1:20



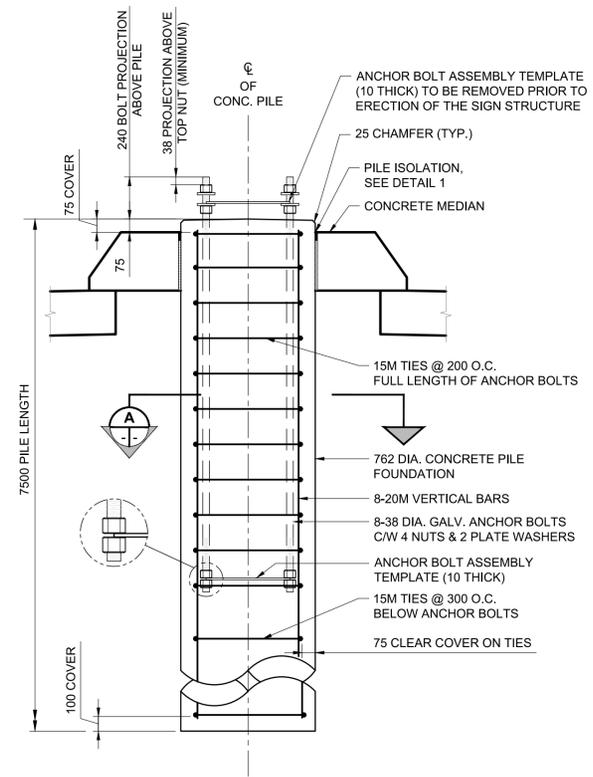
ANCHOR BOLT ASSEMBLY TEMPLATE
1:20



KEY PLAN
SCALE 1:1000



S794 ELEVATION - LOOKING NORTH
1:50



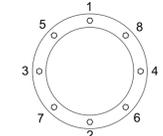
CONCRETE PILE FOUNDATION DETAIL FOR S794
1:20

PILE CONSTRUCTION NOTES

- REINFORCING STEEL**
 - CSA G30.18 GR. 400W
 - VERTICAL BARS FULL LENGTH OF PILE
 - HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A767
- 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% OF) OF THE UPPER ANCHOR NUTS.
 - ANCHOR BOLTS SHALL BE TIGHTENED USING A STAR PATTERN TIGHTENING SEQUENCE.
- FORM TOP OF PILE WITH A TUBULAR FORM (SONOTUBE):**
 - 1m FOR DRILLED SHAFTS
 - 1.5m FOR HYDRO-EXCAVATED SHAFTS
- 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:

 - CLASS OF EXPOSURE: F-1 AND S-1
 - MINIMUM COMPRESSIVE STRENGTH AT 56 DAYS = 35 MPa
 - MAXIMUM WATER/CEMENT RATIO = 0.40
 - AIR CONTENT: CATEGORY 1 PER TABLE 4 OF CSA A23.1-14 (5-8%)
 - TYPE HS, HSb OR HSs CEMENT IN ACCORDANCE WITH CSA A23.1-14



CENTRE OF PILE LAYOUT TABLE				
STRUCTURE	STATION	O/S (m)	NORTHING	EASTING
S794 (P5)	17+14.499	48.282 (RIGHT)	9907.1513	10486.3763

(PR-FERMOR-SOUTH MEDIAN EDGE CONTROL LINE)

LOCATION APPROVED UNDERGROUND STRUCTURES

GBM ELEV 55-015
ELEV 233.170

DESIGNED BY TN
CHECKED BY GQW
DRAWN BY AH
APPROVED BY BAP
RELEASED FOR CONSTRUCTION

DATE 19/02/15

NOTE:
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 THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

No.	REVISIONS	DATE	BY
C	ISSUED FOR TENDER	19/03/22	BAP
B	ISSUED FOR CLIENT REVIEW	19/02/15	BAP
A	N/A	-	-

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
G.Q. WEI
Member 38723

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

2019/2020 REGIONAL STREET RENEWAL PROGRAM
FERMOR AVENUE
FROM LAGIMODIERE BOULEVARD
TO PLESSIS ROAD (CITY BOUNDARY)
OVERHEAD SIGN STRUCTURE
S794 DAWSON ROAD NB, SOUTH OF FERMOR
GENERAL ARRANGEMENT & FABRICATION DETAILS

CITY DRAWING NUMBER P-3501-56
SHEET 56 OF 63
DRAWING No. 56

TENDER No. 8-2019

P:\2018\1804191-00-2019020 Regional St Renew Fermor\08_CAD\07_Sheets\1804191-56-Fermor-OH-07.dwg Last Saved: 3/18/2019 1:27 PM by jheppner Plotfile: 3/22/2019 8:32 AM by Alex Heppner