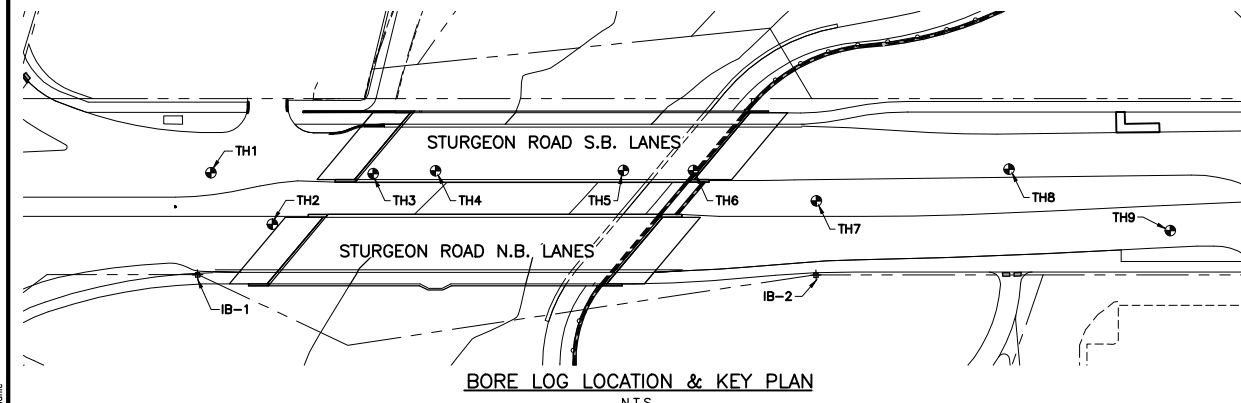


**NOTES:**  
 1. CONTROL LINE REFERENCE IS ALONG SOUTHBOUND CURB LANE GUTTER AND NORTHBOUND CURB LANE GUTTER.  
 2. ABUTMENT WORKING POINTS (WP) ARE LOCATED ON THE ABUTMENT WALL BEARING SEAT AT THE FACE OF THE BALLAST WALL.  
 3. SEE SHEET 14 FOR BORE LOGS.  
 4. SEE SHEETS 26 THROUGH 29 FOR ROCK SOCKETED CAISSON DETAILS.

**FOUNDATION LAYOUT**  
1:125



WORK POINT LOCATION & ELEVATION				
BM.	NORTHING	EASTING	ELEVATION	DESCRIPTION
B.M.	5527114.360	623668.570	236.590	83R592
IB-1	5526707.002	623657.134	234.577	IRON BAR
IB-2	5526813.955	623661.025	234.331	IRON BAR
S.B. WP-1	5526743.151	623632.840	235.251	TOP OF ABUTMENT BEARING SEAT
S.B. WP-2	5526760.632	623633.469	235.558	TOP OF PIER
S.B. WP-3	5526783.504	623634.292	236.038	TOP OF PIER
S.B. WP-4	5526800.984	623634.921	236.466	TOP OF ABUTMENT BEARING SEAT
N.B. WP-1	5526721.551	623656.779	234.799	TOP OF ABUTMENT BEARING SEAT
N.B. WP-2	5526739.030	623657.408	235.158	TOP OF PIER
N.B. WP-3	5526761.901	623658.231	235.708	TOP OF PIER
N.B. WP-4	5526779.380	623658.860	236.185	TOP OF ABUTMENT BEARING SEAT

BILL OF CAISSONS						
No.	PILE TYPE	DESCRIPTION	LOCATION	APPROX. AVERAGE LENGTH (m)	TOTAL (m)	
3	914 O.D. x 9.5 THK. CONC. FILLED STEEL CASING	CAISSON	S.B. SU.2	11.5	34.5	△
3	762# CONC. FILLED ROCK SOCKET	CAISSON	S.B. SU.2	4.5	13.5	
3	914 O.D. x 9.5 THK. CONC. FILLED STEEL CASING	CAISSON	S.B. SU.3	11.5	34.5	△
3	762# CONC. FILLED ROCK SOCKET	CAISSON	S.B. SU.3	4.5	13.5	
3	914 O.D. x 9.5 THK. CONC. FILLED STEEL CASING	CAISSON	N.B. SU.2	11.2	33.6	△
3	762# CONC. FILLED ROCK SOCKET	CAISSON	N.B. SU.2	4.5	13.5	
3	914 O.D. x 9.5 THK. CONC. FILLED STEEL CASING	CAISSON	N.B. SU.3	11.2	33.6	△
3	762# CONC. FILLED ROCK SOCKET	CAISSON	N.B. SU.3	4.5	13.5	

BILL OF PILES					
No.	PILE TYPE	DESCRIPTION	LOCATION	LENGTH (m)	TOTAL (m)
10	HP360x132 STEEL PILE	ABUTMENT	S.B. SU.1	16.0	160.0
10	HP360x132 STEEL PILE	ABUTMENT	N.B. SU.1	15.5	155.0
10	HP360x132 STEEL PILE	ABUTMENT	S.B. SU.4	17.0	170.0
10	HP360x132 STEEL PILE	ABUTMENT	N.B. SU.4	17.0	170.0
				<b>TOTAL LENGTH (m)</b>	<b>655.0</b>

83R592 - S.E. COR. STURGEON RD. & BOOTH DR., TBLT. ON TOP OF 0.05m DIA. X 2.4m IRON PIPE, 3.5m W. OF E.L. OF STURGEON DR. & 3.3m N. OF S.L. OF BOOTH DR.

**APEGM**  
 Certificate of Authorization  
 Stantec Consulting Ltd.  
 No. 1301 Date: \_\_\_\_\_

**LOCATION APPROVED UNDERGROUND STRUCTURES**  
 SUPV. U/G STRUCTURES DATE COMMITTEE \_\_\_\_\_  
 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
1	REVISED PER ADDENDUM No.1	12.01.18	K.S.A.
0	ISSUED FOR TENDER	11.12.15	K.S.A.

**Stantec Consulting Ltd.**  
 100-1355 Taylor Ave., Winnipeg, Manitoba  
 Tel 204-928-8840 Fax 204-284-4795

DESIGNED BY: K.S.A. CHECKED BY: K.S.A.  
 DRAWN BY: J.M.B. APPROVED BY: B.J.W.

HOR. SCALE: AS SHOWN  
 VERTICAL: \_\_\_\_\_

RELEASED FOR CONSTRUCTION: \_\_\_\_\_  
 DATE: \_\_\_\_\_

ENGINEER'S SEAL  
 CONSULTANT DRAWING NO. **S-104**

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION

**STURGEON ROAD BRIDGE REPLACEMENT**  
 PORTAGE AVENUE TO HALLONQUIST DRIVE  
 FOUNDATION LAYOUT & DETAILS

SHEET **12** OF **81**  
 CAD FILE DRAWING NUMBER **31590s-104-767.dwg**  
 CITY DRAWING NUMBER **B120-12-012**

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 Date: 2012 Jun 19 12:56pm User: bjpj, Stephen

**METRIC**  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES