BILL OF REINFORCING STEEL

STRAIGHT BARS

MARK	QTY.	LENGTH (mm)	MASS (kg)
A1501	76	15860	1892.4
A1502	19	3250	96.9
A1503	1	3100	4.9
A1504	1	2760	4.3
A1505	1	2420	3.8
A1506	1	2080	3.3
A1507	2	2645	8.3
A1508	1	2305	3.6
A1509	2	1970	6.2
A1510	2	1660	5.2
A1511	4	920	5.8
A1512	2	2785	8.7
A1513	1	2300	3.6
A1514	1	2715	4.3
A1515	1	2230	3.5
A1516	1	1745	2.7
A1517	1	1305	2.0
A1518	2	975	3.1
A1519	1	3215	5.0
A1520	1	2860	4.5
A1521	1	2500	3.9
A1522	1	2140	3.4
A1523	1	1785	2.8
A1524	1	2325	3.7
A1525	1	1610	2.5
A1526	3	1290	6.1
A1527	5	900	7.1
A1528	1	3030	4.8
A1529	1	2265	3.6
A1530	2	2780	8.7
A1531	1	2400	3.8
A1532	1	2015	3.2
A1533	1	1670	2.6
A1534	2	930	2.9
A1535	1	2890	4.5
A1536	1	2525	4.0
A1537	1	2165	3.4
A1538	1	1800	2.8
A1539	1	2340	3.7
A1540	1	1980	3.1
A1541	1	1615	2.5
A1542	1	3020	4.7
A1543	1	2690	4.2
A1544	1	3265	5.1
A1545	1	2940	4.6
A1546	1	2610	4.1
A1547	1	2280	3.6
A1548	2	1955	6.1
A1549	2	1415	4.4
A1550	1	3130	4.9

MARK	QTY.	LENGTH (mm)	MASS (kg)
A1551	1	2435	3.8
A1552	1	2990	4.7
A1553	1	2640	4.1
A1554	1	2295	3.6
A1555	1	1945	3.1
A1556	1	1600	2.5
A1557	2	1395	4.4
A1558	1	3070	4.8
A1559	1	2495	3.9
A1560	1	2210	3.5
A1561	1	1920	3.0
A1562	1	2530	4.0
A1563	1	2245	3.5
A1564	1	1695	2.7
A2001	19	3250	145.4
A2002	1	3100	7.3
A2003	1	2760	6.5
A2004	1	2420	5.7
A2005	1	2080	4.9
A2006	2	2645	12.5
A2007	1	2305	5.4
A2008	2	1970	9.3
A2009	2	1660	7.8
A2011	2	2785	13.1
A2012	1	2300	5.4
A2013	1	2715	6.4
A2014	1	2230	5.3
A2015	1	1745	4.1
A2016	1	1305	3.1
A2018	1	3215	7.6
A2019	1	2860	6.7
A2020	1	2500	5.9
A2021	1	2140	5.0
A2022	1	1785	4.2
A2023	1	2325	5.5
A2024	1	1610	3.8
A2025	3	1290	9.1
A2027	1	3030	7.1
A2028	1	2265	5.3
A2029	2	2780	13.1
A2030	1	2400	5.7
A2031	1	2015	4.7
A2032	1	1670	3.9
A2034	1	2890	6.8
A2035	1	2525	5.9
A2036	1	2165	5.1
A2037	1	1800	4.2
A2038	1	2340	5.5

MARK	QTY.	LENGTH (mm)	MASS (kg)
A2039	1	1980	4.7
A2040	1	1615	3.8
A2041	1	3020	7.1
A2042	1	2690	6.3
A2043	1	3265	7.7
A2044	1	2940	6.9
A2045	1	2610	6.1
A2046	1	2280	5.4
A2047	2	1955	9.2
A2049	1	3130	7.4
A2050	1	2435	5.7
A2051	1	2990	7.0
A2052	1	2640	6.2
A2053	1	2295	5.4
A2054	1	1945	4.6
A2055	1	1600	3.8
A2057	1	3070	7.2
A2058	1	2495	5.9
A2059	1	2210	5.2
A2060	1	1920	4.5
A2061	1	2530	6.0
A2062	1	2245	5.3
A2063	1	1695	4.0
A2064	32	15860	1195.2

ABUTMENTS — BENT BARS

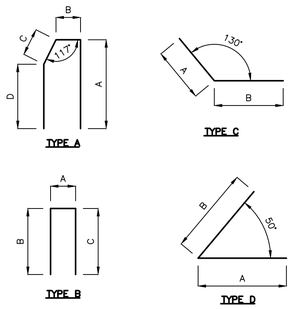
MARK	QTY.	TYPE	A	B	C	D	E	LENGTH (mm)	MASS (kg)
A1579	82	C	600	600	–	–	–	1200	154.5
A1580	82	D	600	600	–	–	–	1200	154.5
A1583	102	B	590	750	325	–	–	1665	266.6
A1584	102	B	590	310	740	–	–	1640	262.6
A1585	204	B	885	720	720	–	–	2325	744.7
A1586	204	B	885	650	650	–	–	2185	699.8
A1587	9	B	150	875	875	–	–	1900	26.8
A1588	12	B	150	1190	1190	–	–	2530	47.7
A1589	7	B	300	990	990	–	–	2280	25.1
A1590	18	B	300	1030	1030	–	–	2360	66.7
A1591	1	B	300	745	745	–	–	1790	2.8
A1592	1	B	300	1350	1350	–	–	3000	4.7
A1593	2	B	300	1120	1120	–	–	2540	8.0
A1594	2	B	300	890	890	–	–	2080	6.5
A1595	4	B	300	810	810	–	–	1920	12.1
A1596	2	B	300	580	580	–	–	1460	4.6
A1597	4	B	300	390	390	–	–	1080	6.8
A1598	5	B	300	1205	1205	–	–	2710	21.3
A1599	5	B	300	1340	1340	–	–	2980	23.4
A15100	1	B	300	1325	1325	–	–	2950	4.6
A15101	1	B	300	1160	1160	–	–	2620	4.1
A15102	16	B	300	1000	1000	–	–	2300	57.8
A15103	1	B	300	840	840	–	–	1980	3.1
A15104	1	B	300	680	680	–	–	1660	2.6
A15105	1	B	300	515	515	–	–	1330	2.1
A15106	2	B	300	380	380	–	–	1060	3.3
A15107	9	B	300	925	925	–	–	2150	30.4
A15108	1	B	300	830	830	–	–	1960	3.1
A15109	2	B	300	755	755	–	–	1810	5.7
A15110	3	B	300	550	550	–	–	1400	6.6
A15111	2	B	300	385	385	–	–	1070	3.4
A15112	1	B	300	730	730	–	–	1760	2.8
A15113	1	B	300	1210	1210	–	–	2720	4.3
A15114	1	B	300	1005	1005	–	–	2310	3.6
A15115	3	B	300	860	860	–	–	2020	9.5
A15116	6	B	300	1290	1290	–	–	2880	27.1
A15117	6	B	300	1260	1260	–	–	2820	26.6
A15118	2	B	300	1295	1295	–	–	2890	9.1
A15119	1	B	300	1105	1105	–	–	2510	3.9
A15120	1	B	300	920	920	–	–	2140	3.4
A15121	1	B	300	730	730	–	–	1760	2.8
A15122	1	B	300	540	540	–	–	1380	2.2
A15123	12	B	300	1200	1200	–	–	2700	50.9
A15124	2	B	300	825	825	–	–	1950	6.1
A15125	2	B	300	780	780	–	–	1860	5.8
A15126	2	B	300	565	565	–	–	1430	4.5
A15127	1	B	300	740	740	–	–	1780	2.8
A15128	1	B	300	530	530	–	–	1360	2.1
A15129	1	B	300	910	910	–	–	2120	3.3
A15130	1	B	300	870	870	–	–	2040	3.2

MARK	QTY.	TYPE	A	B	C	D	E	LENGTH (mm)	MASS (kg)
A15131	6	B	300	1475	1475	–	–	3250	30.6
A15132	12	B	300	1485	1485	–	–	3270	61.6
A15133	1	B	300	1530	1530	–	–	3360	5.3
A15134	1	B	300	1060	1060	–	–	2420	3.8
A15135	1	B	300	820	820	–	–	1940	3.0
A15136	1	B	300	585	585	–	–	1470	2.3
A15137	6	B	300	1510	1510	–	–	3320	31.3
A15138	1	B	300	1395	1395	–	–	3090	4.9
A15139	1	B	300	1185	1185	–	–	2670	4.2
A15140	1	B	300	980	980	–	–	2260	3.5
A15141	1	B	300	770	770	–	–	1840	2.9
A15142	1	B	300	560	560	–	–	1420	2.2
A15143	9	B	300	1080	1080	–	–	2460	34.8
A15144	2	B	300	855	855	–	–	2010	6.3
A15145	2	B	300	600	600	–	–	1500	4.7
A15146	1	B	300	865	865	–	–	2030	3.2
A1569S	39	A	1075	200	225	875	–	2375	145.4
A1570S	1	A	1065	200	225	875	–	2365	3.7
A1571S	1	A	930	200	225	875	–	2230	3.5
A1572S	1	A	905	200	225	875	–	2205	3.5
A1573S	2	A	770	200	225	875	–	2070	6.5
A1574S	1	A	980	200	225	875	–	2280	3.6
A1575S	1	A	785	200	225	875	–	2085	3.3
A1576S	1	A	950	200	225	875	–	2250	3.5
A1577S	1	A	780	200	225	875	–	2080	3.3
A1582S	204	B	195	975	975	–	–	2145	687.0

TOTAL MASS OF BLACK STEEL REINFORCING 6981.0 kg

TOTAL MASS OF STAINLESS STEEL REINFORCING 863.3 kg

BAR TYPES



APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301 Date:_____

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

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.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	11.12.15	K.S.A.

Stantec Consulting Ltd.
100–1355 Taylor Ave., Winnipeg, Manitoba
Tel 204–488–5742 Fax 204–284–4795

DESIGNED BY	K.S.A.	CHECKED BY	K.S.A.
DRAWN BY	S.A.S.	APPROVED BY	B.J.W.
SCALE:	N/A	RELEASED FOR CONSTRUCTION:	
DATE	DEC. 15, 2011	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NO.
S-209

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

STURGEON ROAD
BRIDGE REPLACEMENT
PORTAGE AVENUE TO HALLONQUIST DRIVE
REINFORCING SCHEDULE FOR ABUTMENTS

SHEET 25 OF 82
CAD FILE DRAWING NUMBER 31590s-205-767.dwg
CITY DRAWING NUMBER B120-12-025

V:\1137\active\113731590\drawing\402_design\sheet_files\2011-11-12_tender_issue\31590s-205-767.dwg
Date: 2011 Dec 20 3:13pm Login: Beernaerts, James