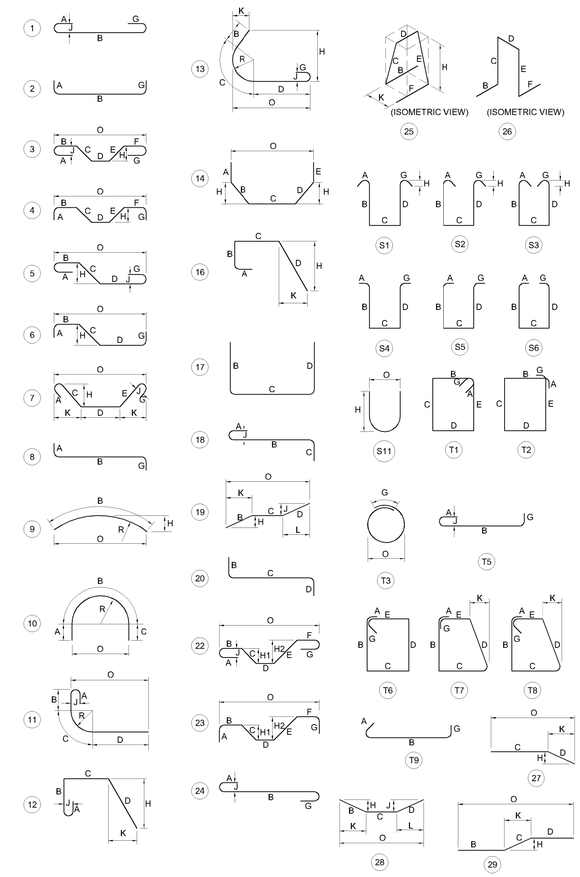
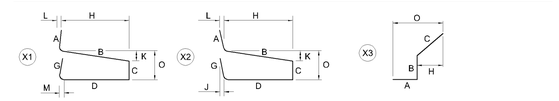
MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
APPROACH																				
S1601S	43	16	2 915	X2	280	265	180	265			1 925	265	195		50		180			197.42
S1602S	58	16	2 385	X2	250	675	160	650			650	650		185			345			217.87
S1603S	58	16	2 385	X1	250	675	160	650			650	650		186			345			217.87
S1604S	58	16	1 105	X3	400	355	350					200					600			100.94
S1605S	58	16	1 145	X3	400	395	350					200					600			104.60
S1606X	48	16	6 630	2	280	6 350														493.91
S1607X	48	16	9 000	STR																670.46
S1608X	46	16	9 280	2	280	9 000														662.52
S1609X	46	16	6 350	STR																453.34
S1610X	94	16	1 550	STR																226.13
S1611X	94	16	5 000	STR																729.44
S1612X	94	16	8 200	STR																1 196.28
S1613S	16	16	6 850	STR																172.62
S1614S	1	16	2 800	X2	280	335	180	335			1 670	335	150		20		180			4.41
S1615S	1	16	2 950	X2	280	410	180	410			1 670	410	110		15		180			4.65
S1616S	1	16	3 090	X2	280	480	180	480			1 670	480	30				180			4.87
S1617S	10	16	3 270	X1	280	555	180	555			1 700	555			17	50	180			51.50
S1618S	47	16	6 850	STR																507.07
S1619X	94	16	5 500	STR																802.38
S1620X	94	16	8 800	STR																1 283.81
S1621X	48	16	8 800	STR																655.56
S1622X	48	16	5 700	1	200	5 500														424.63
S1623X	46	16	5 500	STR																392.66
S1624X	46	16	9 000	1	200	8 800														642.53
S1625S	28	16	710	17		265	180	265												31.31
S1901X	320	19	6 850	STR																4 899.12
S1902S	94	19	4 842	5	200	3 400	492	750									4 600			1 023.17
S1903X	96	19	3 000	STR																643.68
S2501X	306	25	7 400	1	280	6 840					280									8 996.46
S2502X	12	25	7 489	3	280	3 610			304	3 015	280	215					6 840			357.05
S2503S	**34**	**25**	**7 400**	**1**	**280**	**6 840**					**280**									**1 015.71**
												TOTAL MASS TWO APPROACH SLABS(STAINLESS STEEL)(kg)								3 654.01
												TOTAL MASS TWO APPROACH SLABS (CHROMX 9100) (kg)								23 529.96
												TOTAL MASS: TWO APPROACH SLABS (kg)								27 183.96
SHOULDER BARRIERS																				
B1001S	95	10	760	16		310	140	310				308		35						40.14
B1601S	602	16	1,510	T7		650	210	650						70						1,431.71
B1602S	304	16	2,865	STR																1,371.76
B1603S	32	16	3,450	STR																173.88
B1604S	32	16	865	STR																43.60
B1605S	16	16	3,140	STR																79.13
B1606S	38	16	3,823	STR																228.81
B2501S	138	25	600	STR																334.26
												TOTAL MASS: NORTH & SOUTH SHOULDER BARRIERS (STAINLESS STEEL) (kg)								3,703.29
MEDIAN BARRIER																				
M1601S	301	16	1,790	14		830	130	830				925					300			848.59
M1602S	152	16	2,865	STR																685.88
M1603S	16	16	3,450	STR																86.94
M1604S	16	16	865	STR																21.80
M1605S	8	16	3,140	STR																39.56
M2501S	69	25	600	STR																65.21
												TOTAL MASS: MEDIAN BARRIER (STAINLESS STEEL) (kg)								1,747.98
												TOTAL MASS OF STAINLESS STEEL = 9 105.27 kg								
												TOTAL MASS OF CHROMX (9100) = 23 529.96 kg								

MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)



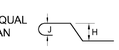
A.C.I. - TYPICAL BAR BENDS



SPECIAL BAR BENDS

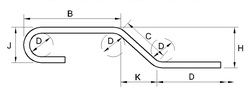
NOTES:

1. ALL DIMENSIONS ARE OUT-TO-OUT OF A BAR EXCEPT 'A' AND "G" ON STANDARD 180° AND 135° HOOKS.
2. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
3. ON TRUSS BARS "J" WILL BE KEPT EQUAL TO OR LESS THEN "H". WHERE "J" CAN EXCEED "H" IT SHOULD BE SHOWN.



4. THE STIRRUPS "H" DIMENSION SHOULD BE SHOWN ONLY WHERE NECESSARY TO FIT WITHIN CONCRETE.
5. CRITICAL DIMENSIONS ARE TO BE IDENTIFIED WHERE BARS ARE TO BE BENT MORE ACCURATELY THAN STANDARD BENDING TOLERANCES.
6. ON TYPE T3 "G" DIMENSION IS EQUAL TO CLASS C SPLICE.
7. FIGURES SHOWN IN CIRCLES SHOW TYPES.
8. ALL BAR BENDS OTHER THAN THE TYPES SHOWN ABOVE MUST BE DESIGNATED TYPE "X".
9. "a" DENOTES LONGER BARS AND SHOULD BE USED FOR THE TOP BECAUSE EXTRA LAP REQUIRED ON TOP.

UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL HOOKS AND BENDS ON A BAR.



ENLARGED VIEW SHOWING BAR BENDING DETAILS

APEGM
Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: 2018/02/09

NO.	REVISIONS	DATE	BY
1	ADDENDUM #2	18/02/22	DRA
0	ISSUED FOR TENDER	18/02/09	DRA

KGW

DILLON CONSULTING

DESIGNED BY	DRA	CHECKED BY	SSR
DRAWN BY	CLO / DB	APPROVED BY	MBL
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERTICAL	AS SHOWN		
DATE	2018/02/09	DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
D.R.C. AMORIM
Member 33215
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER
17-5932

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

FERMOR AVENUE BRIDGE OVER SEINE RIVER
BRIDGE REHABILITATION, PEDESTRIAN-CYCLIST UNDERPASS STRUCTURE AND ROADWORKS FROM ST. ANNE'S ROAD TO ARCHIBALD STREET

BRIDGE STRUCTURE REINFORCING
STEEL SCHEDULE 2 OF 2

CITY DRAWING NUMBER: B-118-2017-CS-050
SHEET 050 OF 100
CONSULTANT DRAWING NUMBER: CS - 050

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