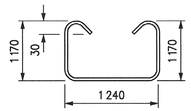
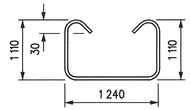
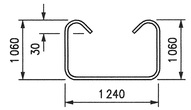
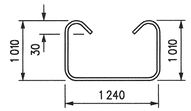
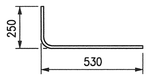
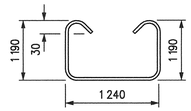
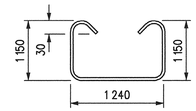
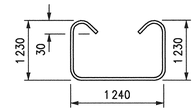
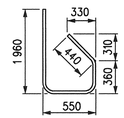
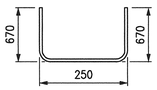
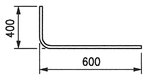
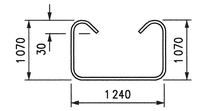
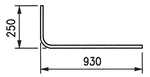
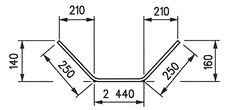
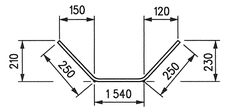
BILL OF REINFORCING STEEL
FOR ABUTMENT MODIFICATION - STAGE 2 — Site No. 2924-00

MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
1501	BENT	90	3 580	11	61.83	
1502	BENT	90	3 460	17	92.35	
1503	BENT	90	3 360	5	26.38	
1504	BENT	90	3 260	4	20.47	
1509	STR		1 120	12	21.10	
1510	STR		1 010	10	15.86	
1511	BENT	90	780	630	771.50	
1512	BENT	90	3 620	10	56.83	

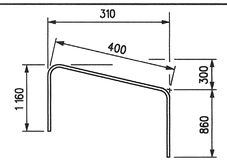
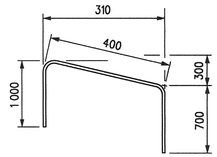
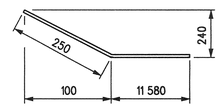
BILL OF REINFORCING STEEL
FOR ABUTMENT MODIFICATION - STAGE 2 — Site No. 2924-00

MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
1513	BENT	90	3 540	7	38.90	
1517	STR		1 150	2	3.61	
1518	STR		1 070	10	16.80	
1520	BENT	90	3 700	6	34.85	
1521	STR		1 230	16	30.90	
1522	BENT	90	3 310	77	400.15	
1524	BENT	90	1 590	77	192.22	
1525	BENT	90	1 000	73	114.61	
1528	STR		1 350	77	163.20	
1530	BENT	90	3 380	10	53.07	
1532	STR		11 510	3	54.21	
1533	STR		11 620	7	127.70	
1534	STR		11 380	7	125.07	

BILL OF REINFORCING STEEL
FOR ABUTMENT MODIFICATION - STAGE 2 — Site No. 2924-00

MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
1535	BENT		2 920	8	36.68	
1536	STR		450	12	8.48	
1539	BENT	90	1 180	8	14.82	
1544	STR		1 370	6	12.91	
1548	STR		1 110	5	8.71	
1549	STR		4 360	3	20.54	
1558	STR		1 050	6	9.89	
1562	STR		1 320	2	4.14	
1564-1	STR		1 710	1	2.68	
1564-2	STR		2 310	1	3.63	
1564-3	STR		2 910	1	4.57	
1565	STR		11 490	3	54.12	
1566	BENT	90	2 940	4	18.46	
1567	STR		1 200	5	9.42	
1568	BENT	90	2 030	4	12.75	
1569-1	STR		1 890	1	2.97	
1569-2	STR		2 490	1	3.91	
1570-1	STR		1 450	1	2.28	
1570-2	STR		2 050	1	3.22	
1571	STR		800	6	7.54	
1572-1	STR		2 030	2	6.37	
1572-2	STR		1 880	2	5.90	
1572-3	STR		1 730	2	5.43	
1572-4	STR		1 580	2	4.96	
1572-5	STR		1 430	2	4.49	
1572-6	STR		1 280	2	4.02	
1572-7	STR		1 130	2	3.55	
1572-8	STR		980	2	3.08	
1572-9	STR		830	2	2.61	
1573	STR		2 580	6	24.30	
1574	STR		3 880	4	24.37	

BILL OF REINFORCING STEEL
FOR ABUTMENT MODIFICATION - STAGE 2 — Site No. 2924-00

MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM
1575	BENT	90	2 420	10	37.99	
1576-1	STR		2 620	1	4.11	
1576-2	STR		2 020	1	3.17	
1577	STR		4 000	4	25.12	
1578-1	STR		2 170	1	3.41	
1578-2	STR		1 570	1	2.46	
1580	STR		4 470	3	21.05	
1581	BENT	90	2 100	12	39.56	
1582	STR		560	6	5.28	
1583-1	STR		1 940	2	6.09	
1583-2	STR		1 790	2	5.62	
1583-3	STR		1 640	2	5.15	
1583-4	STR		1 490	2	4.68	
1583-5	STR		1 340	2	4.21	
1583-6	STR		1 190	2	3.74	
1583-7	STR		1 040	2	3.27	
1583-8	STR		890	2	2.79	
1583-9	STR		740	2	2.32	
1583-10	STR		590	2	1.85	
1584	STR		2 650	7	29.12	
1585-1	STR		3 010	1	4.73	
1585-2	STR		2 410	1	3.78	
1585-3	STR		1 810	1	2.84	
1586	STR		1 900	2	5.97	
2002	STR		4 110	12	116.15	
2005	BENT	100	11 830	7	195.02	

REVISIONS		
DATE	BY	DESCRIPTION

PROVINCE OF MANITOBA — Mar. 15/10 — S.S RIHAL — REGISTERED PROFESSIONAL ENGINEER

ABUTMENT MODIFICATIONS
STAGE 2 - BILL OF REINFORCING

RECONSTRUCTION AND STRENGTHENING OF EXISTING BRIDGE
OVER ASSINIBOINE RIVER - CONTRACT THREE
ON P.T.H. No. 100 IN R.L.'S 72, 73 & 94
PARISH OF ST. CHARLES

CITY OF WINNIPEG

Manitoba Infrastructure and Transportation
Water Control & Structures

RELEASED FOR CONSTRUCTION BY: Ruth Yoden — March 15/10
DIRECTOR — DATE
STRUCTURES, DESIGN AND CONSTRUCTION BRANCH

DESIGN	BY: M.B.C.	
	CHECKED: S.S.R.	
DETAILS	BY: M.S.	
	CHECKED: S.S.R./J.J.	

SCALE:
SHEET No. 41
SITE No. 2924-00

...\292400_Abut_Reinf_Contract3.dgn 2010-03-09 11:43:40 AM