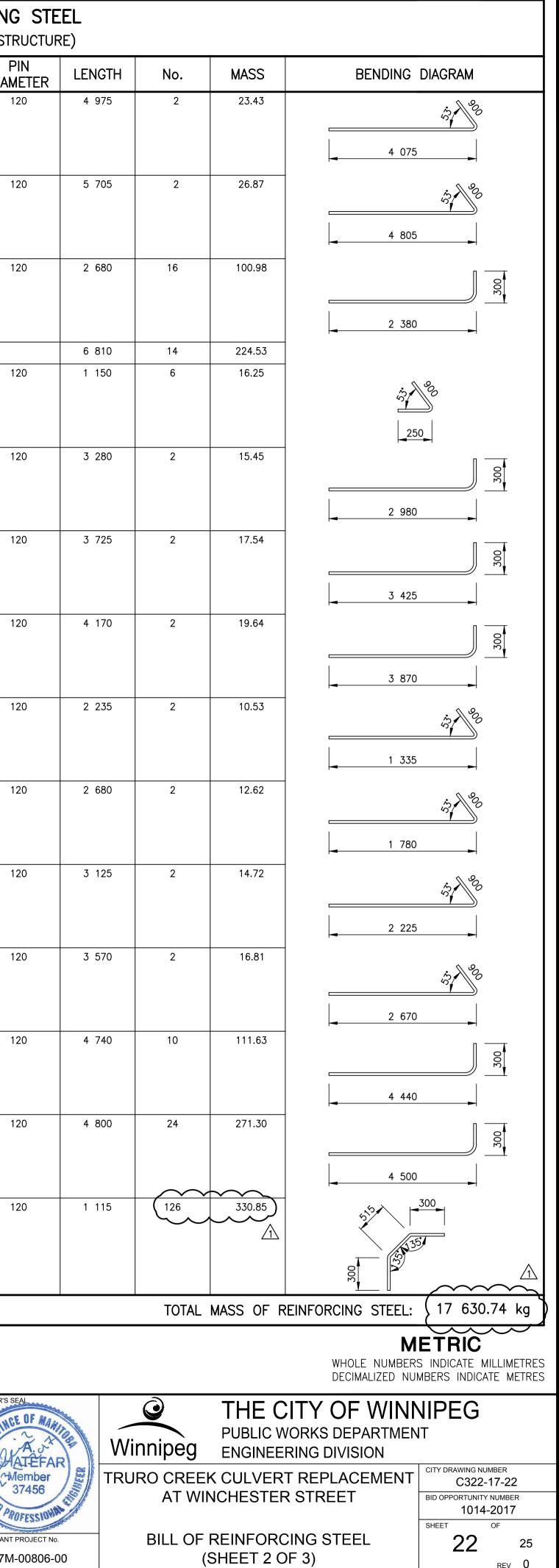
BILL OF REINFORCING STEEL FOR BOX CULVERT (SUBSTRUCTURE)							BILL OF REINFORCING STEEL FOR BOX CULVERT (SUBSTRUCTURE)								BILL OF REINFORCING FOR BOX CULVERT (SUBSTRU		
MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM	MARK	TYPE	PIN DIAMETER	LENGTH	No.	MASS	BENDING DIAGRAM	MARK	TYPE DIAI		
C1520-13	BENT	95	1 930	2	6.06		C2006	BENT	120		246			C2014-5	BENT		
C1520-14	BENT	95	2 020	2	6.34		C2007 C2008	STR BENT	120	9 255 1 760	12 74	261.55 306.72		C2014-6	BENT		
C1520-15	BENT	95	2 110	2	6.63								800	C2015	BENT		
							C2009	BENT	120	2 680	8	50.49	2 380	C2016 C2017	STR BENT		
C1520-16	BENT	95	2 195	2	6.89		C2010-1	BENT	120	2 880	4	27.13		C2018-1	BENT		
C1520-17	BENT	95	2 285	2	7.17		C2010-2	BENT	120	3 310	4	31.18	2 580				
							C2010-3	BENT	120	3 735	4	35.18	3 010	C2018–2	BENT		
C1520–18	BENT	95	2 370	2	7.44		C2010-4	BENT	120	4 160	4	39.19	3 435	C2018-3	BENT		
C1520-19	BENT	95	2 460	2	7.72		C2010–5	BENT	120	4 585	4	43.19		C2019-1	BENT		
C1520–20	BENT	95	2 550	2	8.01								4 285	C2019-2	BENT		
							C2010-6	BENT	120	5 010	4	47.19	4 710	C2019-3	BENT		
C2001	BENT	120	5 630	74	981.14		C2011 C2012 C2013	STR STR STR		14 775 15 255 6 590	2 14 15	69.59 502.96 232.79	\mathbf{Y}	C2019-4	BENT		
						375	C2014-1	BENT	120	2 060	2	9.70	1 160				
C2002	BENT	120	5 400 <u>(</u>)	123	1 564.19		C2014-2	BENT	120	2 790	2	13.14		C2020	BENT		
C2003	BENT	120	5 400	147	1 869.40)) C2014–3	BENT	120	3 520	2	16.58	1 890	C2021	BENT		
00001)) C2014-4	BENT	120	4 245	2	19.99	2 620	C2022	BENT		
C2004	BENT	120	5 630	74	981.14												
C2005	BENT	120		246	1 149.97								CONTINUED→] [
						CONTINUED→		UNDERG	NS APPROVED ROUND STRUC	TURES	 TOP NUT OF F BETWEEN NES 233.659 	IRST HYDRANT SOUTH OF INTE S AVENUE AND LINWOOD STR		93 Lombard Ave Winnipeg T+ 1 F+ 1	Group Limited enue, Suite 111 MB R3B 3B1 204-943-3178 204-943-4948 www.wsp.com		
						GE MA Certificate of A WSP Canada G	NITOBA Authorization	LOCATION OF U SHOWN ARE B AVAILABLE BU EXISTING LITU	JNDERGROUND STRUCTUI ASED ON THE BEST INFOR I NO GUARANTEE IS GIVEN TIES ARE SHOWN OR THA	RES AS MATION N THAT ALL T THE GIVEN OF			DRAWN BY CP	APPROVED BY	IL AND R		
NOTE: These design docur no representations	ments are prepara of any kind made	ed solely for the use e by the design profe	by the party with w essional to any party	hom the desig with whom the	n professional has ei e design professional	ntered into a contract and there are has not entered into a contract.		LOCATIONS AR EXISTANCE AN	E EXACT CONFIRMATION (D EXACT LOCATION OF AL INED FROM THE INDIVIDU	DF L SERVICES AL UTILITIES 0	ISSUED FOR AD ISSUED FOR TEI REVISIONS		17.11.23 JL VERTICAL N.T.S.	RELEASED FOR CONSTRUCTION DATE	CONS		

	LOCATIONS APPROVED UNDERGROUND STRUCTURES	G.B.M. = TOP NUT OF FIRST HYDRANT SOUTH OF INTERSECTION BETWEEN NESS AVENUE AND LINWOOD STREET ELEV. = 233.659				11	5))	WSP Canada Group Limited 93 Lombard Avenue, Suite 111 Winnipeg MB R3B 3B1 T+ 1 204-943-3178		ENGINEER'S
	SIGNED BY:								F+ 1 204-943-4948 www.wsp.com	
						DESIGNED BY AG DRAWN BY CP		CHECKED BY	MLW	
	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 EXISTANCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING							APPROVED BY	JL	
d		1	ISSUED FOR ADDENDUM No. 2	17.12.08	JL		RELEASED FOR			
		0	ISSUED FOR TENDER	17.11.23	JL	VERTICAL N.T.S.		CONSTRUCTION		
		No.	REVISIONS	DATE	BY	DATE	17.11.23	DATE		17№



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