

REVISED 09-14 - CORRECTED THE BARRIER RAIL REINFORCING STEEL QUANTITIES FOR ALL THE BRIDGE LENGTHS.

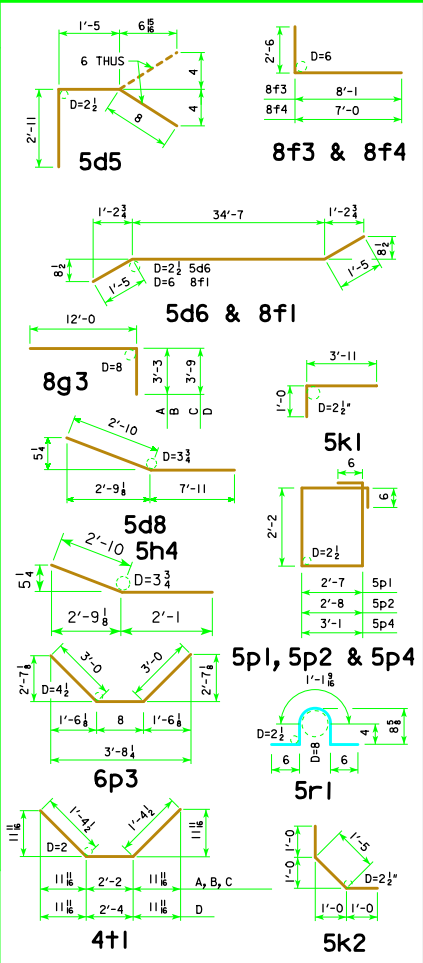
REINFORCING BAR LIST			BRIDGE LENGTH																											
			46'-8				55'-0				67'-6				80'-0				90'-0				100'-0				110'-0			
			NO.	LENGTH	WEIGHT	SHAPE	NO.	LENGTH	WEIGHT	SHAPE	NO.	LENGTH	WEIGHT	SHAPE	NO.	LENGTH	WEIGHT	SHAPE	NO.	LENGTH	WEIGHT	SHAPE	NO.	LENGTH	WEIGHT	SHAPE	NO.	LENGTH	WEIGHT	SHAPE
ONE SUPERSTRUCTURE AND TWO ABUTMENTS			A				A				B				C				D				D							
601	SLAB TRANSVERSE, TOP & BOTTOM	87	32'-10	4291	109	32'-10	5376	143	32'-10	7053	175	32'-10	8631	203	32'-10	10,012	229	32'-10	11,294	255	32'-10	12,576	255	32'-10	11,294	255	32'-10	12,576		
602	SLAB TRANSVERSE END, TOP	44	*	1105	44	*	1105	44	*	1105	44	*	1105	44	*	1105	44	*	1105	44	*	1105	44	*	1105	44	*	1105		
603	SLAB TRANSVERSE END, BOTTOM	46	**	1155	46	**	1155	46	**	1155	46	**	1155	46	**	1155	46	**	1155	46	**	1155	46	**	1155	46	**	1155		
5b1	SLAB LONGITUDINAL TOP & BOTTOM	168	26'-0	4556	168	30'-2	5286	168	36'-5	6381	252	29'-2	7666	252	32'-6	8542	252	35'-10	9418	252	39'-2	10,294	252	35'-10	9418	252	39'-2	10,294		
5d2	ABUTMENT DIAPHRAGM, LONGITUDINAL - F.F.	24	7'-2	180	24	7'-2	180	24	7'-2	180	24	6'-11	174	24	7'-1	178	24	7'-1	178	24	7'-1	178	24	7'-1	178	24	7'-1	178		
5d3	ABUTMENT DIAPHRAGM, LONGITUDINAL - F.F.	8	6'-3	53	8	6'-3	53	8	6'-3	53	8	6'-0	51	8	5'-10	49	8	5'-10	49	8	5'-10	49	8	5'-10	49	8	5'-10	49		
5d5	ABUTMENT DIAPHRAGM, LONGITUDINAL - END	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63	12	5'-0	63		
5d6	ABUTMENT DIAPHRAGM LONGITUDINAL - B.F.	8	37'-5	313	8	37'-5	313	8	37'-5	313	8	37'-5	313	8	37'-5	313	8	37'-5	313	8	37'-5	313	8	37'-5	313	8	37'-5	313		
5d7	PAVING NOTCH, LONGITUDINAL	4	37'-10	158	4	37'-10	158	4	37'-10	158	4	37'-10	158	4	37'-10	158	4	37'-10	158	4	37'-10	158	4	37'-10	158	4	37'-10	158		
5d8	ABUTMENT DIAPH. WING EXT. LONGIT.	-	-	-	-	-	-	-	-	-	24	10'-9	269	24	10'-9	269	24	10'-9	269	24	10'-9	269	24	10'-9	269	24	10'-9	269		
5d9	ABUT. DIAPH. WING EXT. LONGIT.	-	-	-	-	-	-	-	-	-	24	10'-8	267	24	10'-8	267	24	10'-8	267	24	10'-8	267	24	10'-8	267	24	10'-8	267		
8f1	ABUTMENT FOOTING LONGITUDINAL	18	37'-5	1798	18	37'-5	1798	18	37'-5	1798	18	37'-5	1798	18	37'-5	1798	18	37'-5	1798	18	37'-5	1798	18	37'-5	1798	18	37'-5	1798		
8f3	ABUTMENT EXTENSION LONGITUDINAL	-	-	-	-	-	-	-	-	-	16	10'-7	453	16	10'-7	453	16	10'-7	453	16	10'-7	453	16	10'-7	453	16	10'-7	453		
8f4	ABUTMENT EXTENSION LONGITUDINAL	-	-	-	-	-	-	-	-	-	16	9'-6	406	16	9'-6	406	16	9'-6	406	16	9'-6	406	16	9'-6	406	16	9'-6	406		
8g1	ABUTMENT VERTICAL	114	6'-7	2004	114	6'-7	2004	114	7'-2	2181	110	7'-8	2252	110	8'-5	2472	110	8'-5	2472	110	8'-5	2472	110	8'-5	2472	110	8'-5	2472		
8g3	ABUTMENT DIAPHRAGM VERTICAL - B.F.	50	15'-3	2036	50	15'-3	2036	50	15'-3	2036	50	15'-9	2103	50	15'-9	2103	50	15'-9	2103	50	15'-9	2103	50	15'-9	2103	50	15'-9	2103		
6g4	ABUT. DIAPH. WING EXT. VERT.	-	-	-	-	-	-	-	-	-	40	5'-8	341	40	6'-5	386	40	6'-5	386	40	6'-5	386	40	6'-5	386	40	6'-5	386		
5h1	ABUTMENT TO WING ANCHOR	28	6'-8	196	28	6'-8	196	28	6'-8	196	36	6'-8	252	36	6'-8	252	36	6'-8	252	36	6'-8	252	36	6'-8	252	36	6'-8	252		
5h2	ABUTMENT TO WING ANCHOR	56	4'-11	288	56	4'-11	288	56	4'-11	288	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62		
5h3	ABUTMENT TO WING ANCHOR	28	6'-9	198	28	6'-9	198	28	6'-9	198	36	6'-9	256	36	6'-9	256	36	6'-9	256	36	6'-9	256	36	6'-9	256	36	6'-9	256		
5h4	ABUTMENT TO WING ANCHOR	-	-	-	-	-	-	-	-	-	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62	12	4'-11	62		
5j1	SLAB TRANSV. TOP AT RAIL	126	6'-3	822	148	6'-3	965	182	6'-3	1187	214	6'-3	1396	242	6'-3	1578	268	6'-3	1748	294	6'-3	1917	294	6'-3	1748	294	6'-3	1917		
5k1	PAVING NOTCH, TRANSVERSE	52	4'-11	267	52	4'-11	267	52	4'-11	267	52	4'-11	267	52	4'-11	267	52	4'-11	267	52	4'-11	267	52	4'-11	267	52	4'-11	267		
5k2	PAVING NOTCH, TRANSVERSE	52	3'-5	186	52	3'-5	186	52	3'-5	186	52	3'-5	186	52	3'-5	186	52	3'-5	186	52	3'-5	186	52	3'-5	186	52	3'-5	186		
5p1	ABUTMENT HOOPS	120	10'-6	1315	120	10'-6	1315	120	10'-6	1315	120	10'-6	1315	112	10'-6	1227	128	10'-6	1402	128	10'-6	1402	128	10'-6	1402	128	10'-6	1402		
5p2	ABUTMENT EXT. HOOPS	-	-	-	-	-	-	-	-	-	24	10'-8	268	24	10'-8	268	24	10'-8	268	24	10'-8	268	24	10'-8	268	24	10'-8	268		
6p3	ABUT. BOTT. AT PILES	-	-	-	-	-	-	-	-	-	28	6'-8	281	32	6'-8	321	36	6'-8	361	36	6'-8	361	36	6'-8	361	36	6'-8	361		
5p4	ABUTMENT HOOPS AT ENDS	8	11'-6	96	8	11'-6	96	8	11'-6	96	8	11'-6	96	8	11'-6	96	8	11'-6	96	8	11'-6	96	8	11'-6	96	8	11'-6	96		
5r1	PAVING BLOCK LIFTING HOOPS	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24	8	2'-10	24		
5s1	WING, VERTICAL	64	5'-10	390	64	5'-10	390	64	6'-2	412	64	6'-11	462	64	7'-8	512	64	7'-8	512	64	7'-8	512	64	7'-8	512	64	7'-8	512		
4f1	UNDER BEAMS AT ABUTMENTS	10	4'-11	33	10	4'-11	33	10	4'-11	33	10	4'-11	33	10	5'-1	34	10	5'-1	34	10	5'-1	34	10	5'-1	34	10	5'-1	34		
#2	PILE SPIRAL - NO. 2 BAR	12	38'-6	77	12	38'-6	77	12	38'-6	77	18	38'-6	115	20	38'-6	128	22	38'-6	141	22	38'-6	141	22	38'-6	141	22	38'-6	141		
	SPIRAL SPACER L _x x L _y x L _z x 0.70	24	1'-10	32	24	1'-10	32	24	1'-10	32	36	1'-10	47	40	1'-10	53	44	1'-10	59	44	1'-10	59	44	1'-10	59	44	1'-10	59		
	REINFORCING STEEL (LBS.)			21636			23594			26678			32327			35055			37617			39944			39944			39944		
	SEE BARRIER RAIL DETAILS (LBS.)			4054			4410			4968			6002			6438			6875			7353			7353			7353		
	SEE OPEN RAIL DETAILS (LBS.)			4179			4572			5277			6816			7478			7900			8322			8322			8322		

* VARIES FROM 3'-1 TO 30'-4 ** VARIES FROM 2'-5 TO 31'-0

CONCRETE PLACEMENT QUANTITIES (SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)		46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
SLAB, AND ABUT. DIAPHRAGM	WITH BARRIER RAIL	73.8	81.0	96.4	117.0	133.6	142.9	152.0
	WITH OPEN RAIL	75.2	82.7	98.5	119.5	136.4	146.0	155.4
PAVING BLOCKS		1.7	1.7	1.7	1.7	1.7	1.7	1.7
ABUTMENT WINGS		7.2	7.2	7.6	8.4	9.2	9.2	9.2
ABUTMENT FOOTINGS		30.7	30.7	30.7	38.5	38.5	38.5	38.5

ESTIMATED QUANTITIES (SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)		46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
NO. OF STEEL H-PILES FOR TWO ABUTS. (HP10X57)		12	12	12	18	20	20	20
STRUCTURAL CONCRETE, (BRIDGE)	WITH BARRIER RAIL	113.4	120.6	136.4	165.6	183	192.3	201.4
	WITH OPEN RAIL	114.8	122.3	138.5	168.1	185.8	195.4	204.8
CONCRETE RAIL (BARRIER OR OPEN)		128.3	144.9	169.9	214.9	234.9	254.9	274.9
REINFORCING STEEL	WITH BARRIER RAIL	25,490	27,804	31,446	39,120	41,284	44,283	47,088
	WITH OPEN RAIL	25,815	28,166	32,064	39,143	42,533	45,517	48,266
STRUCTURAL STEEL	WITH BARRIER RAIL	1532	1526	1570	1610	1695	1695	1695
	WITH OPEN RAIL	1242	1235	1235	1235	1265	1265	1265

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D= PIN DIAMETER

09-14
LATEST REVISION DATE

Thomas E. McQuill
APPROVED BY BRIDGE ENGINEER

IOWADOT Highway Division
STANDARD DESIGN - 30' ROADWAY, SINGLE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
APRIL, 2012

DECK & ABUTMENT REINF. H30S1-20-12
30 SKEW