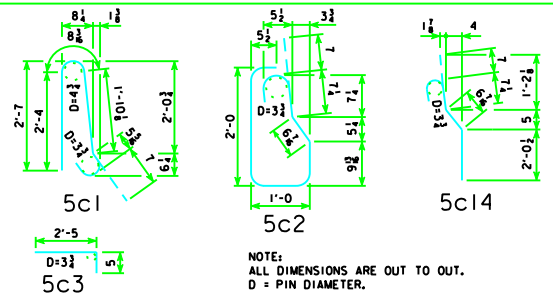
REINFORCING STEEL-TWO BARRIER RAILS

(NOTE: THESE REINFORCING BARS TO BE USED ON ALL SKEWS)

BRIDGE LENGTH				46'-8			55'-0			67'-6			80'-0			90'-0			100'-0			110'-0		
SECTION	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
STANDARD SECTION	5c1	VERTICAL	A	100	5'-11	617	116	5'-11	716	142	5'-11	876	186	5'-11	1148	206	5'-11	1271	226	5'-11	1395	246	5'-11	1518
	5c2	VERTICAL	B	100	6'-0	626	116	6'-0	726	142	6'-0	889	166	6'-0	1039	186	6'-0	1164	206	6'-0	1289	226	6'-0	1414
	5c3	VERTICAL	C	-	-	-	-	-	-	-	-	-	20	2'-10	59	20	2'-10	59	20	2'-10	59	20	2'-10	59
	5c14	VERTICAL	D	-	-	-	-	-	-	-	-	-	20	3'-10	80	20	3'-10	80	20	3'-10	80	20	3'-10	80
	5d1	LONGITUDINAL	—	36	26'-1	979	36	30'-3	1136	36	36'-6	1371	54	32'-7	1835	54	35'-11	2023	54	39'-3	2211	72	32'-6	2441
		4 END SECTIONS @ 412 LBS.				1648			1648			1648			1648			1648			1648			1648
TOTAL LBS. (INCLUDE WITH SUPERSTRUCTURE REINFORCING)						3870			4226			4784			5809			6245			6682			7160

NOTE: ALL BARRIER RAIL REINFORCEMENT TO BE EPOXY COATED IF EPOXY COATING OPTION IS USED. SEE SHEET H30S1-09-05, H30S1-16-05 AND H30S1-23-05.

BENT BAR DETAILS



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

CONCRETE PLACEMENT SUMMARY

BRIDGE LENGTH		46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
STANDARD SECTION *	2 X B @ 0.1052 CU.YD. PER FT.	10.5	12.3	14.9	19.7	21.8	23.9	26.0
END SECTION	4 @ 0.62 CU.YD.	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	TOTAL (CU. YD.)	13.0	14.8	17.4	22.2	24.3	26.4	28.5

* SEE SHEET H30S1-34-05 FOR DIMENSION "B".
CONCRETE QUANTITIES SHOWN ARE BASED ON 30° SKEW BID LENGTHS.

CONCRETE BARRIER RAIL QUANTITIES

BRIDGE LENGTH		UNIT	46'-8	55'-0	67'-6	80'-0	90'-0	100'-0	110'-0
CONCRETE BARRIER RAILING	0° SKEW	L.F.	127.3	144.0	169.0	214.0	234.0	254.0	274.0
CONCRETE BARRIER RAILING	15° SKEW	L.F.	127.5	144.2	169.2	214.2	234.2	254.2	274.2
CONCRETE BARRIER RAILING	30° SKEW	L.F.	128.3	144.9	169.9	214.9	234.9	254.9	274.9

LATEST REVISION DATE :

APPROVED BY

STANDARD DESIGN - 30' ROADWAY, SINGLE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

JANUARY, 2005 HS20-44 LOADING

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

BARRIER RAIL DETAILS
SHEET 3 OF 3

H30S1-36-05