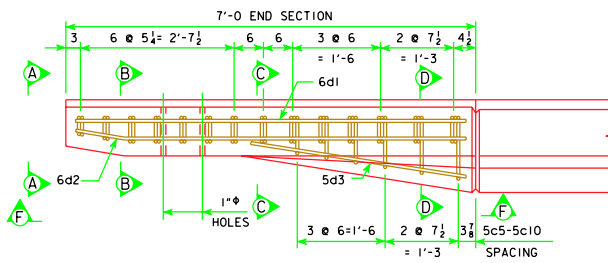
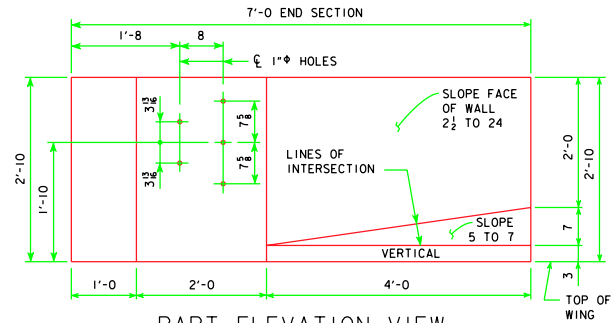


PART PLAN VIEW

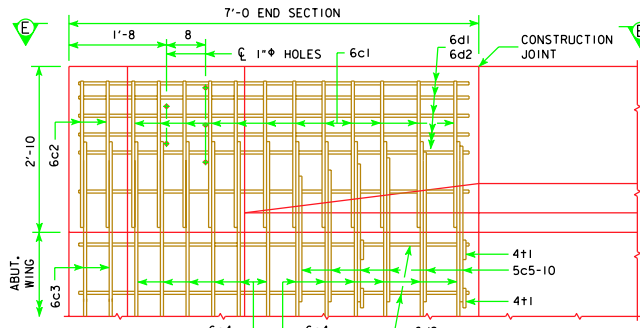


PART VIEW E-E

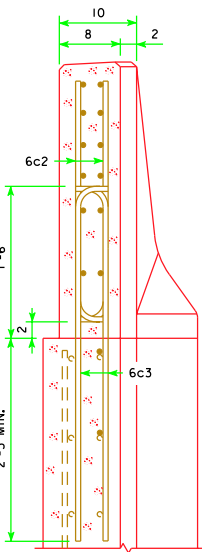


PART ELEVATION VIEW

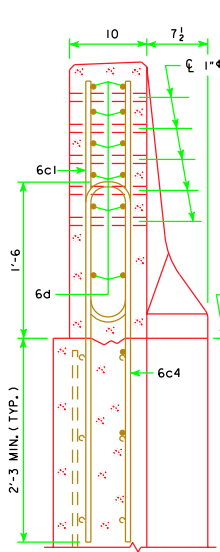
PROVIDE 5 HOLES FORMED WITH 1" PLASTIC CONDUIT, COST TO BE INCLUDED IN PRICE BID FOR CONCRETE BARRIER RAILING.



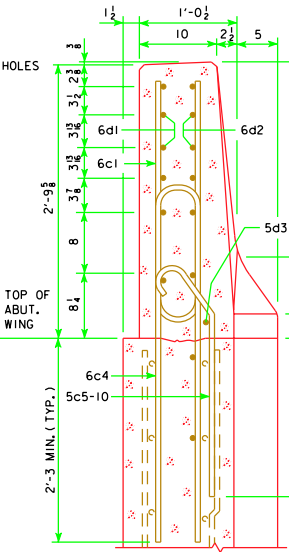
PART VIEW F-F



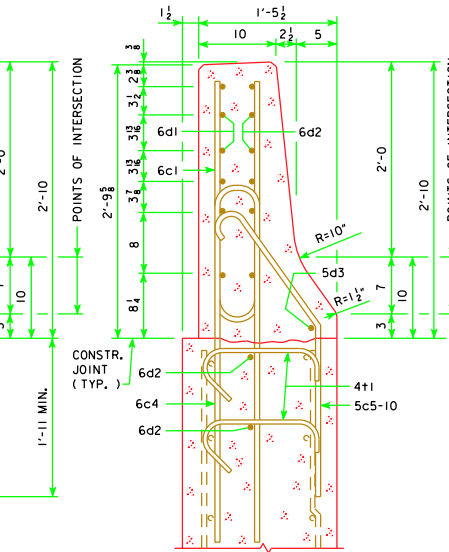
VIEW A-A



SECTION B-B



SECTION C-C



SECTION D-D

NOTE:
4+1 PLACEMENT- 2 BARS EACH LEVEL OF 6d2 IN WING FOOTING.

NOTE:
CONSTRUCTION JOINT BETWEEN TOP OF WING AND BARRIER RAIL IS ROUGHENED CONCRETE.

NOTE:
THE 10" RADIUS AND 1 1/2" RADIUS ARE TYPICAL AND SHALL BE USED WHEN CONSTRUCTING THE CORNERS FOR VIEW A-A, SECTION B-B, SECTION C-C AND SECTION D-D.

NOTE:
THE 6c4, 6c3, 5c5-10, 2 - 6d2 AND 4+1 BARS ARE TO BE PLACED WITH THE ABUTMENT WING. THE DETAILS FOR PLACEMENT ARE SHOWN ON THE WING ABUTMENT SHEET.

NOTE:
DASHED LINES BELOW THE TOP OF WING ARE THE ABUTMENT WING REINFORCING STEEL, SEE WING ABUTMENT SHEET FOR PLACEMENT.

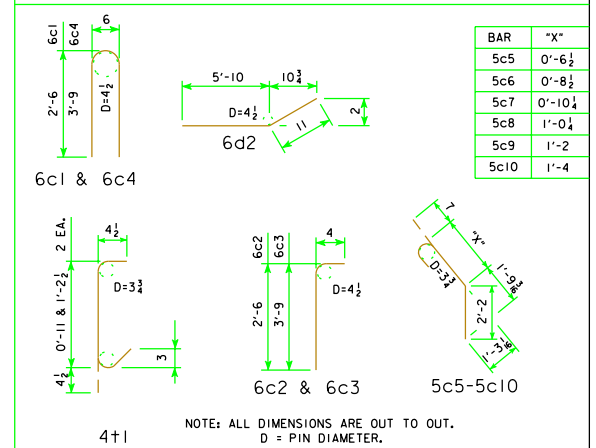
EPOXY REINFORCING STEEL - ONE END SECTION

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	
6c1	VERTICAL	U	12	5'-6"	99	
6c2	VERTICAL	U	4	2'-10"	17	
6c3	VERTICAL	U	4	4'-1"	25	
6c4	VERTICAL	U	12	8'-0"	144	
5c5-10	VERTICAL	U	6	VARIES	23	
6d1	HORIZONTAL	—	6	6'-8"	60	
6d2	HORIZONTAL	—	8	6'-9"	81	
5d3	HORIZONTAL	—	1	3'-9"	4	
4+1	ABUTMENT WING TIE BARS	—	4	VARIES	5	
				(INCLUDE WITH BARRIER RAIL REINFORCING)	TOTAL WEIGHT (LBS.)	458

CONCRETE PLACEMENT SUMMARY

SECTION	TOTAL
BARRIER RAIL ONE END SECTION	0.65 CU. YD.

BENT BAR DETAILS



BAR	"X"
5c5	0'-6 1/2"
5c6	0'-8 1/2"
5c7	0'-10 1/2"
5c8	1'-0 1/2"
5c9	1'-2"
5c10	1'-4"

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



Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
CONTINUOUS CONCRETE
SLAB BRIDGES
NOVEMBER, 2006

BARRIER RAIL END SECTION

J40-47-06

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Thomas C. McQuinn

REVISED 07-09 - CHANGED SHAPE OF 5c5-5c10 BARS.