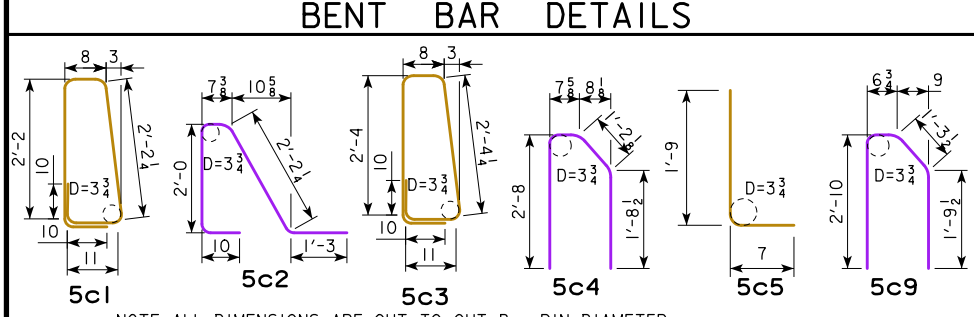


### EPOXY REINF. STEEL-EAST BARRIER RAILING

SECTION	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
RAMP D	5c1-D	VERTICAL		311	7'-8"	2487
	5c3-D	VERTICAL		15	8'-0"	125
	5c5-D	VERTICAL		57	2'-4"	139
	6d1-D	LONGITUDINAL		50	33'-6"	2516
	6d3-D	LONGITUDINAL		10	6'-8"	100
(INCLUDE WITH SUPERSTRUCTURE REINFORCING)						TOTAL (LBS.) 5367

### STAINLESS STEEL-EAST BARRIER RAILING

SECTION	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
RAMP D	5c2-D	VERTICAL		135	6'-11"	974
	5c4-D	VERTICAL		22	6'-3"	143
	5c9-D	VERTICAL		8	6'-6"	54
(INCLUDE WITH SUPERSTRUCTURE REINFORCING)						TOTAL (LBS.) 1172



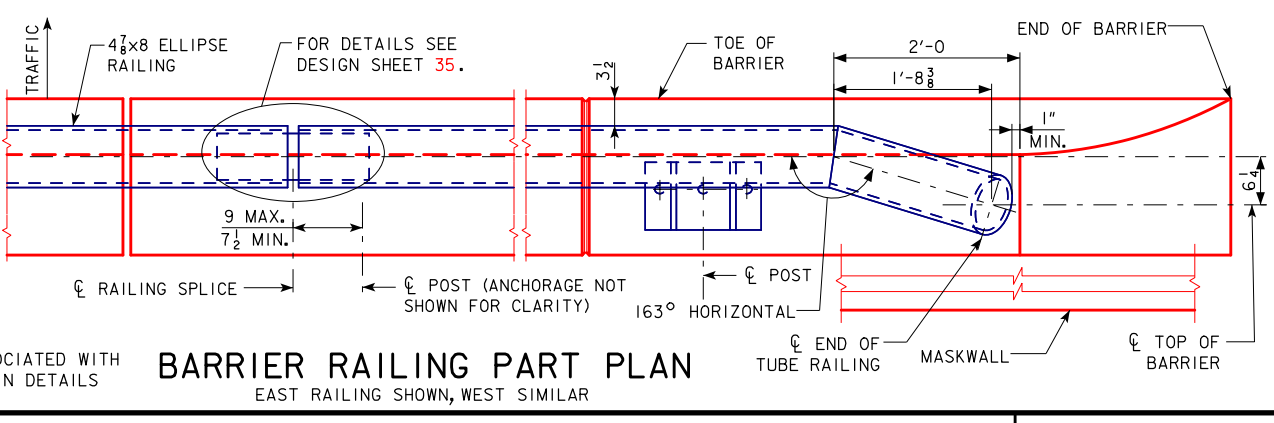
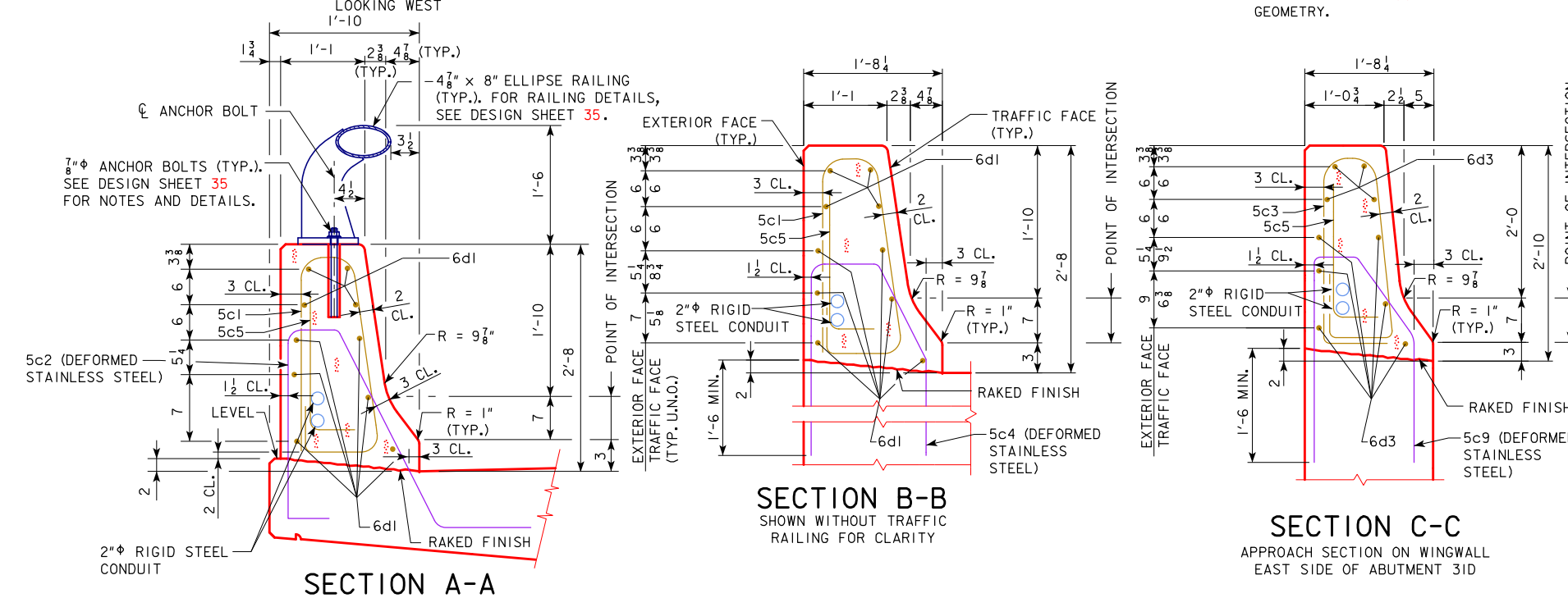
### CONCRETE PLACEMENT SUMMARY

SECTION	TOTAL
2'-8 RAILING SECTION	157.4 @ 0.122 CU.YD. PER FT. 19.2
APPROACH RAILING SECTION	7.0 @ 0.129 CU.YD. PER FT. 0.9
TOTAL (CU. YD.)	20.0

### CONCRETE BARRIER RAILING QUANTITIES

ITEM	UNIT	QUANTITY
CONCRETE BARRIER RAILING	L.F.	164.5
STRUCTURAL STEEL RAILING, TRAFFIC	L.F.	154.9

### EAST BARRIER RAILING ELEVATION



**NOTE:**  
U.N.O. DENOTES UNLESS NOTED OTHERWISE.

DESIGN FOR VARIABLE SKEW (L.A.)  
**137'-9 x VARIES**  
**WELDED GIRDER BRIDGE**  
 137'-9 SIMPLE SPAN  
**EAST TRAFFIC BARRIER DETAILS**  
 STA. 4502+63.37, BASELINE U.S. 67 RAMP D  
 SCOTT COUNTY  
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
 DESIGN SHEET NO. 34 OF 42 FILE NO. 30253 DESIGN NO. 1617

**benesch**  
 engineers · scientists · planners  
 Alfred Benesch & Company  
 205 North Michigan Avenue, Suite 2400  
 Chicago, Illinois 60601  
 312-665-0450 Job No. 10061

**NOTE:**  
 DESIGNATION "-D" SIGNIFIES BAR ASSOCIATED WITH THE RAMP D BRIDGE. "-D" NOT SHOWN IN DETAILS FOR CLARITY.

