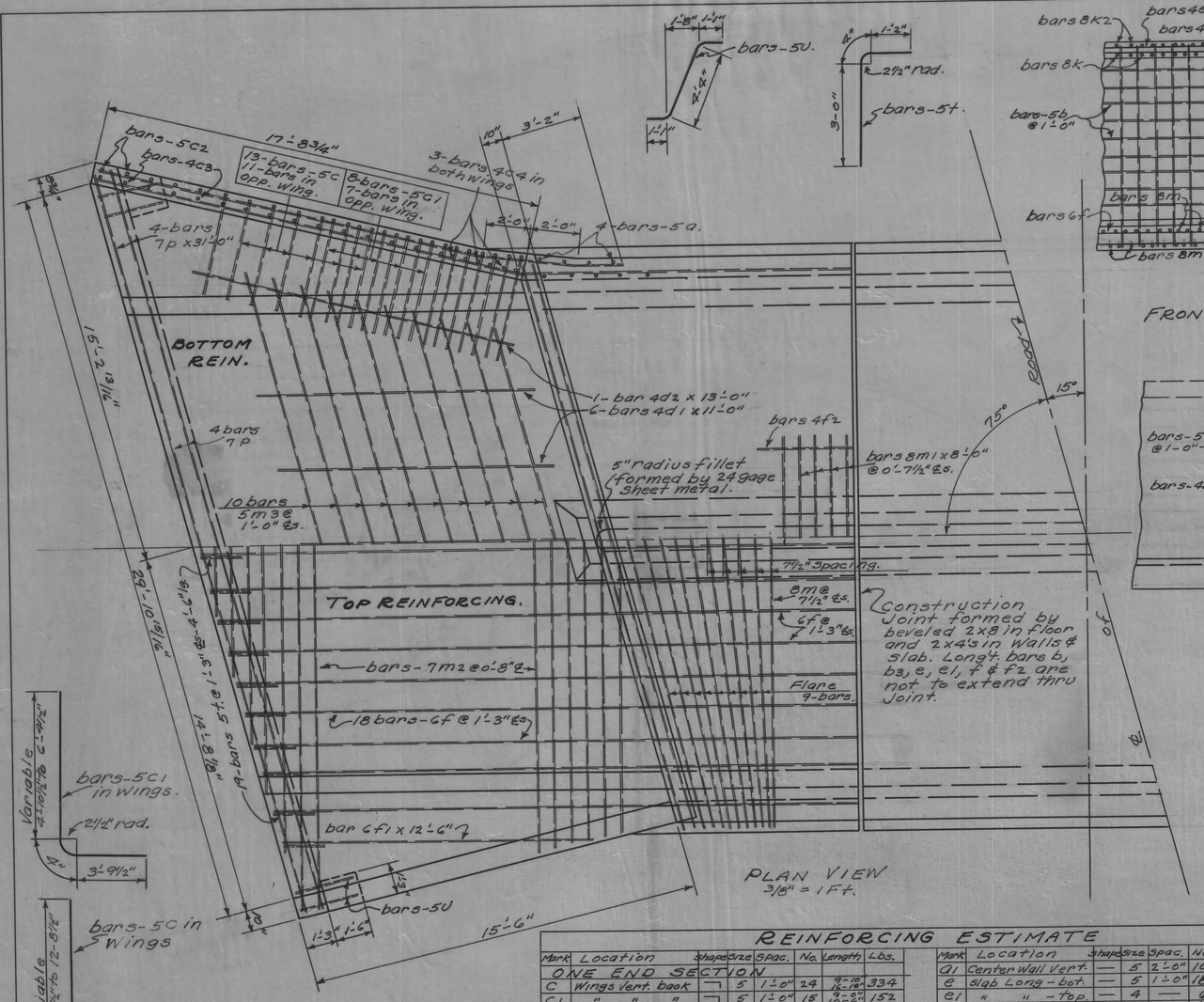

REINFORCING ESTIMATE

Mark	Location	Shape	Size	Spac.	No.	Length	Lbs.
ONE END SECTION							
C	Wings Vert. back	⌐	5	1'-0"	24	9'-10" to 12'-8"	334
C1	" " "	⌐	5	1'-0"	15	9'-0" to 12'-8"	152
C2	" " "	⌐	5	1'-0"	10	3'-7" to 12'-8"	45
C3	" " front	—	4	1'-0"	34	3'-7½" to 12'-1½"	182
C4	" " "	—	4	1'-0"	6	6'-0"	24
d	Floor ends	—	4	—	1	19'-5" to 20'-8"	22
d1	" "	—	4	—	6	11'-0"	44
d2	" "	—	4	—	1	13'-0"	9
f	" Long	—	6	1'-3"	18	28'-9" to 29'-10"	730
f1	" "	—	6	—	1	13'-5" to 13'-8"	39
m3	" trans. bot.	—	5	1'-0"	10	18'-5" to 19'-5"	219
m2	" " top	—	7	0'-8"	29	Var.	1271
P	Curtain Horiz.	—	7	—	4	31'-0"	253
7	"	⌐	5	1'-3"	19	4'-6"	89
U	"	⌐	5	0'-8"	4	6'-6"	27
S	Wing Slope - Long.	◜	6	—	2	22-3½"	67
S	" " - Short	◜	6	—	2	20-4½"	62
S1	" " - Long	◜	6	—	1	22-3½"	33
S1	" " - Short	◜	6	—	1	20-4½"	31
J	Parapet - Hor.	—	5	—	2	23'-0"	48
j	" - Vert.	⌊	4	1'-0"	22	1'-8"	25
a	Wall Vert. - back	—	5	1'-0"	8	12'-4"	103
b1	Wings Hor. - back	◢	4	"	1	19'-6"	13
b1	" " "	◢	4	"	1	21-8½" to 22'-6"	15
b1	" " "	◢	4	"	8	8'-5½" to 9'-0"	73
b1	" " "	◢	4	"	8	8'-5½" to 9'-3½"	83
b	" " front	◢	5	"	1	23'-9"	25
b	" " "	◢	5	"	1	31'-7"	33
b	" " "	◢	5	"	9	15'-3" to 16'-3"	161
b	" " "	◢	5	"	9	21'-2" to 22'-0"	225
b3	Center Wall-Hor.	—	5	Shown.	11	11'-0"	126
a	Walls Vert.	—	5	1'-0"	22	12'-4"	283
a1	Center Wall Vert.	—	5	2'-0"	10	12'-4"	129
e	Slab Long - bot.	—	5	1'-0"	18	8'-2" to 8'-10"	207
e1	" " - top.	—	4	—	6	8'-1" to 8'-10"	44
f2	Floor " - bot.	—	4	—	1	13'-0" to 15'-0"	15
K	Slab trans. - bot.	—	8	0'-7½"	19	22'-2"	1124
K1	" Corners.	⌐	5	1'-0"	22	8'-0"	184
K2	" trans. - top.	—	8	0'-7½"	17	8'-0"	363
m	Floor " - top.	—	8	"	19	23'-0"	1167
m1	" " - bot.	—	8	"	17	8'-0"	363
TOTAL ONE END SECTION =							8442
TOTAL TWO " SECTIONS =							16,884
CENTER SECTION							
a	Walls Vert.	—	5	1'-0"	70	12'-9"	900
a1	Center Wall Vert.	—	5	2'-0"	35	12'-4"	450
b	Walls - Horiz.	—	5	1'-0"	20	33'-8"	702
b3	Center Wall-Hor.	—	5	2'-0"	11	33'-8"	386
e	Slab Long - bot.	—	5	1'-0"	18	"	632
e1	" " - top	—	4	—	6	"	135
f	Floor " - top	—	6	1'-3"	18	"	910
f2	" " - bot.	—	4	—	2	"	45
K	Slab trans bot.	—	8	0'-7½"	55	22'-2"	3255
K1	" Corners	⌐	5	1'-0"	68	8'-0"	567
K2	" trans - top	—	8	0'-7½"	55	"	1175
m	Floor trans-top	—	8	0'-7½"	55	23'-0"	3377
m1	" " - bot.	—	8	"	55	8'-0"	1175
r	Slab dowels	—	5	1'-0"	44	2'-6"	115
TOTAL CENTER SECTION =							13824
TOTAL ENTIRE CULVERT =							30,708

QUANTITIES: FILL = 9 FT.		
CONCRETE	235.70	C.Y.
REIN. STEEL	30,708	LBS.
EXCAVATION	538	C.Y.

DESIGN FOR 15° SKEW

TWIN 10' x 10' R. C. BOX CULVERT

STA.- 26+47.0 PROJECT No. SN-220

CRAWFORD COUNTY, IOWA

Location: Section-10 Union TWP. T.82N. R.40W.

Sheet # 2 of 2

CRAWFORD COUNTY. DESIGN No. 4859 PROJ. No. SN-220 File #20837