HIGHLAND CEMETERY

MAPLE GROVE CEMETERY

AVENUE

Note To Field Engineer:
Establish Ties to Iron at Hillside & Ninth Prior to Pavement Removal.

NINTH STREET

8" C.I. Water

HILLSIDE

Remove existing R.C.B. & Construct 2-80' x 5.0' x 11.40' R.C.B. (80°)

Top Manhole El. 145.51
F.L. El. 8" Pipe W. 132.10
F.L. El. 8" Pipe W. 131.77
F.L. El. 4" Pipe N.E. 142.64
F.L. El. 4" Pipe E. 141.27
F.L. El. 8" Pipe S. 136.30

B.M. 147.42 N.W. corner conc. base to flood light pole, S.E. corner Hillside & Ninth.

JOHN H. EPPERSON — LICENSED — 531 — KANSAS — PROFESSIONAL ENGINEER

O. E. SMITH — LICENSED — 435 — KANSAS — PROFESSIONAL ENGINEER

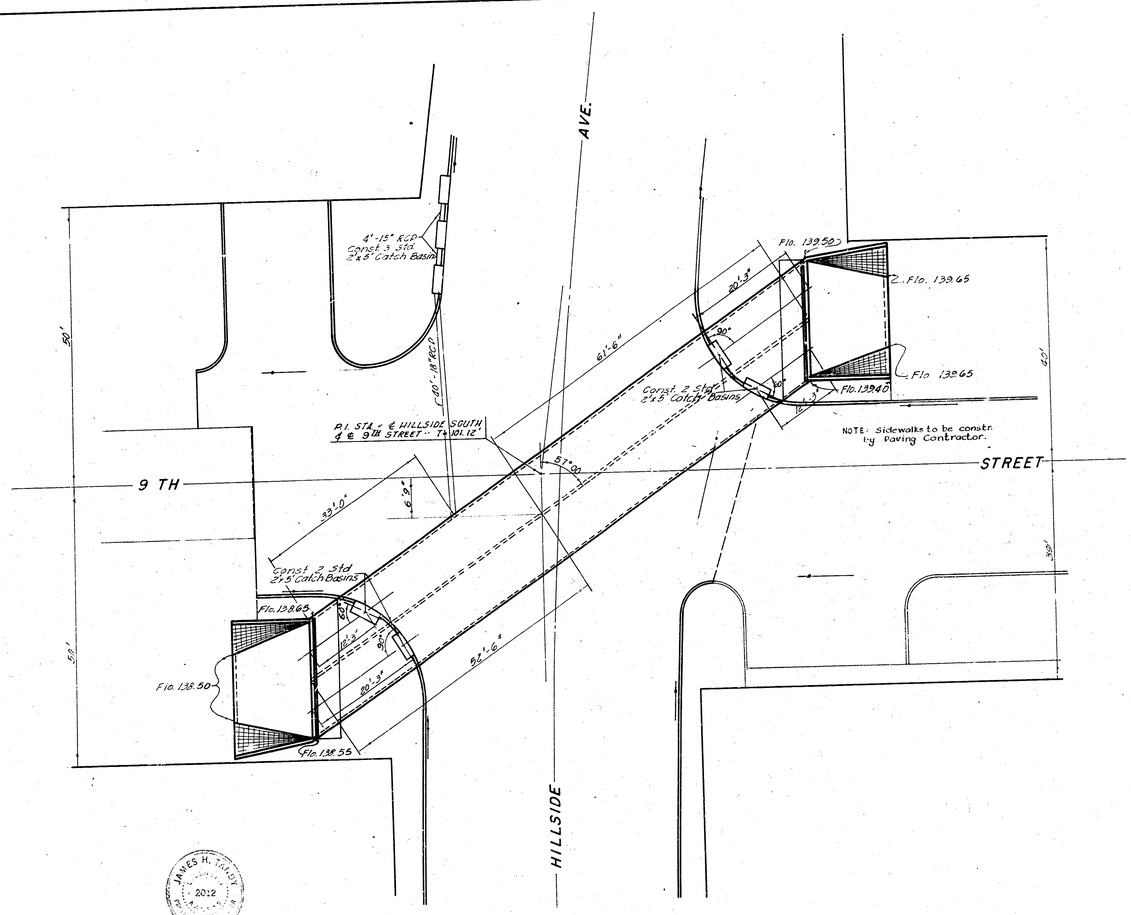
DOUBLE-REINFORCED-CONCRETE
8' x 5' BOX CULVERT
9TH ST. & HILLSIDE
CITY OF WICHITA, KANSAS

O. E. SMITH CITY ENGINEER

DATE: DEC. 1950, PROJ. NO. C10-33

DESIGNED BY:	CHECKED BY:	SURVEY:	SHEET:
Fago	Tandy	Glantz	1 of 7

J.F.G. 48



GENERAL NOTES:

Class A-AE Concrete shall be used throughout. Bevel all exposed edges with a ¾" triangular moulding, unless otherwise indicated.

Coarse aggregate shall be deposited behind each weephole, occupying a space 15" in all directions from the weephole. This work shall not be paid for directly but shall be considered subsidiary to Bid Item "Common Excavation".

All parts of Concrete Handrail including concrete and reinforcing steel shall be included in Bid Item "Concrete Handrail".

All reinforcing steel shall conform to ASTM specification A 305-53T for new intermediate grade of billet steel bars, of deformed section.

The Contractor shall remove and dispose of the existing 12.5' x 6' x 18" RCB. All materials to be removed from the site.

General excavation to be extended 2' each side of Box and wingwalls. Backfill to be mechanically tamped to top of Box and wingwalls and to be sand stabilized. Fill on top of Culvert to be compacted by Pavement Contractor.

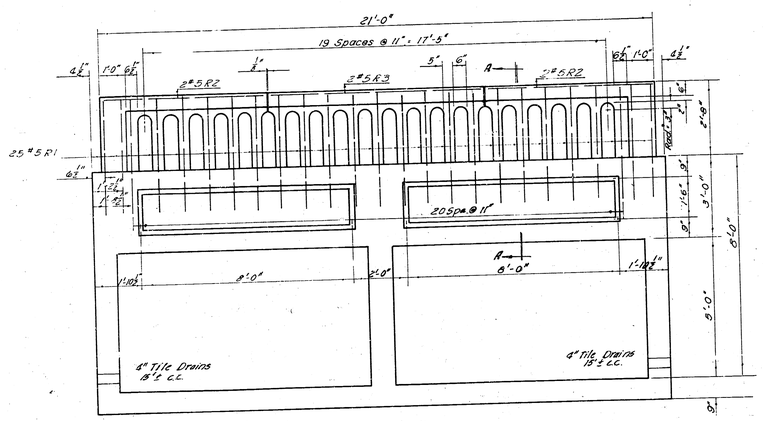
Catch Basins to be installed after intersection has been paved

SUMMARY of QUANTITIES

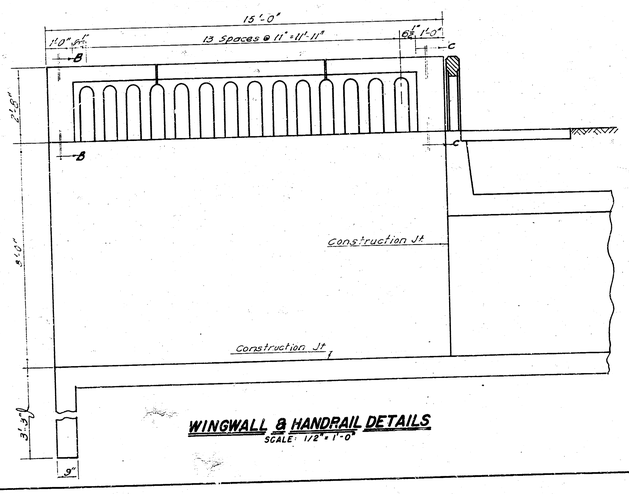
TOTAL BID ITEMS	UNITS	ITEM
198.9	CU. YDS.	CLASS A AE CONCRETE
25,540	LBS.	REINFORCING STEEL
72	LIN. FT.	CONCRETE HANDRAIL
710	CU. YDS.	COMMON EXCAVATION
2	CU. YDS.	HAND EXCAVATION
7	EA.	CATCH BASINS
40	LIN. FT.	18" RCP
8	LIN. FT.	15" RCP
400	SQ. YDS.	BRICK PAVMT. REM.
214	CU. YDS.	COMPACTED FILL
1	EA.	SMALL TREE
1	LUMP SUM	REM. OF EXIST. RCB

JAMES H. TRAUT
2012

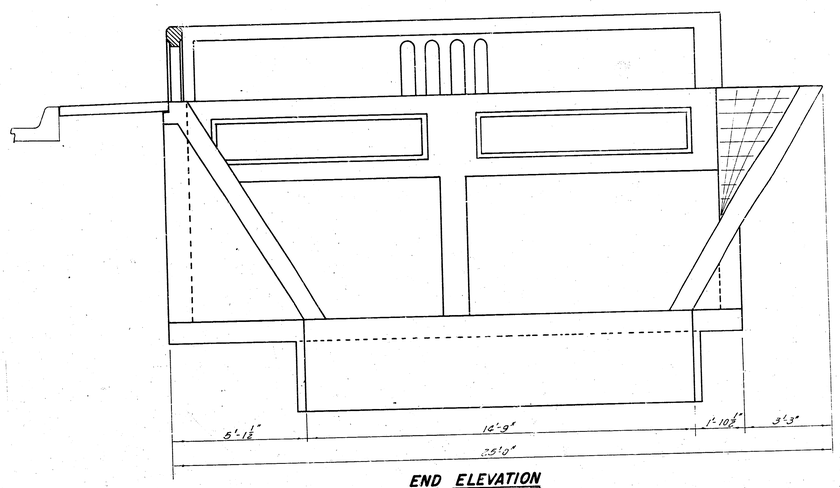
Sheet 3 of 7



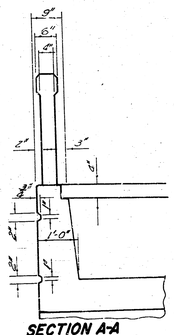
PARAPET FACE & HANDRAIL DETAILS
SCALE: 1/2" = 1'-0"



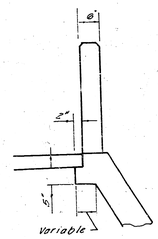
WINGWALL & HANDRAIL DETAILS
SCALE: 1/2" = 1'-0"



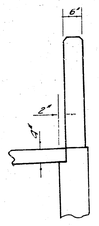
END ELEVATION
SCALE: 1/2" = 1'-0"



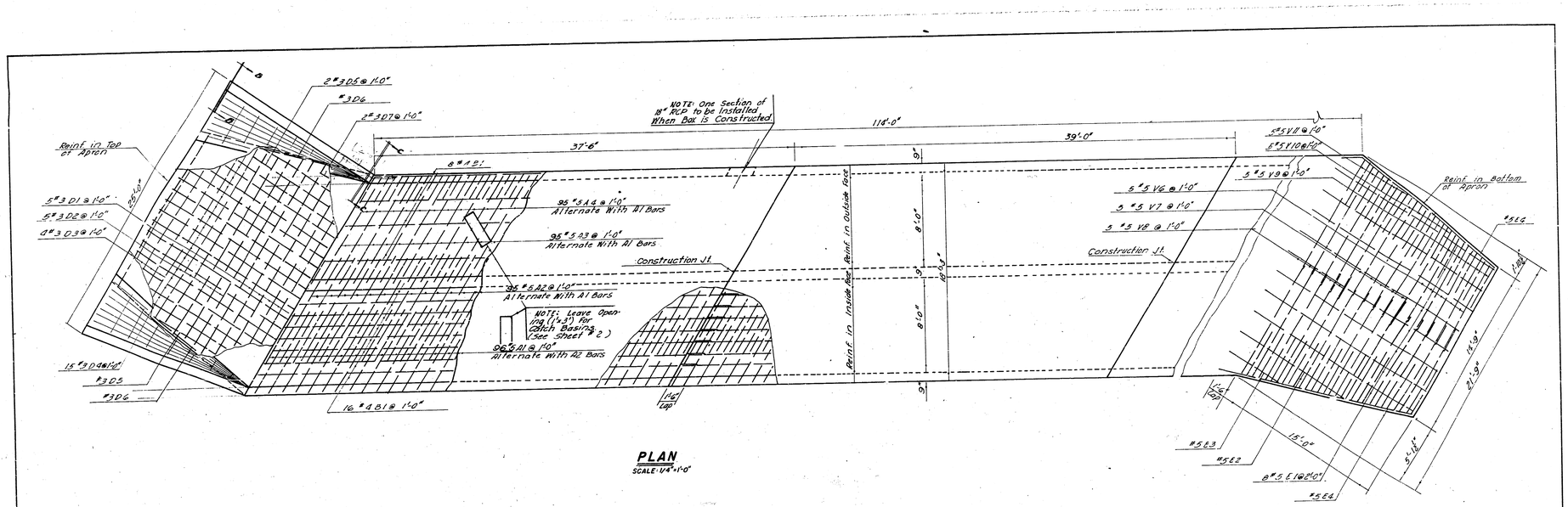
SECTION A-A
SCALE: 3/4" = 1'-0"

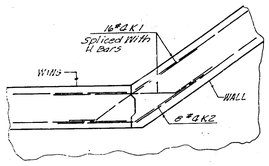


SECTION B-B
SCALE: 3/4" = 1'-0"

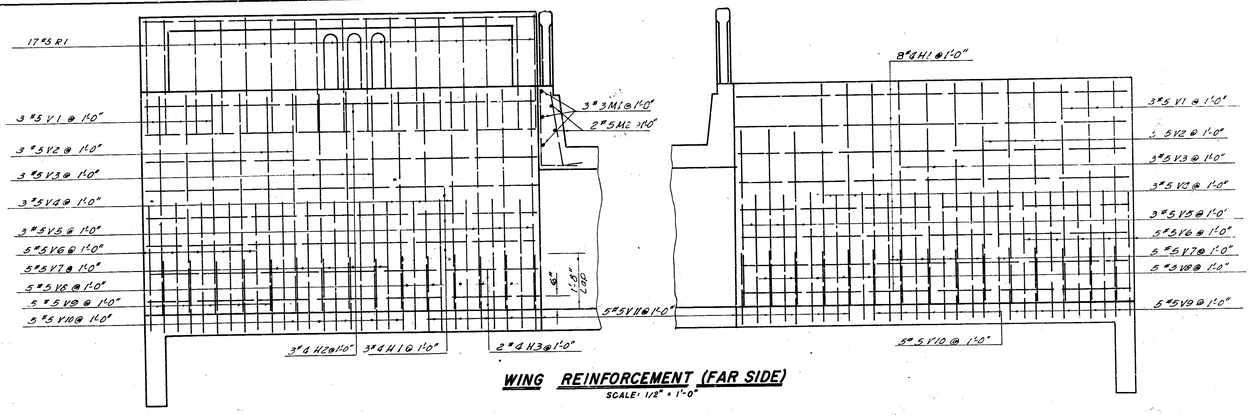


SECTION C-C
SCALE: 3/4" = 1'-0"

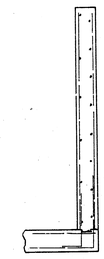

2 #3D5 @ 1'-0"
#3D6
2 #3D7 @ 1'-0"
Reinf in Top of Apron
5 #3D1 @ 1'-0"
5 #3D2 @ 1'-0"
4 #3D3 @ 1'-0"
15 #3D4 @ 1'-0"
#3D5
#3D6
16 #4B1 @ 1'-0"
8 #4B2
NOTE: One Section of 18" RCP to be Installed When Box is Constructed.
37'-6"
118'-0"
39'-0"
95 #3A4 @ 1'-0" Alternate With A1 Bars
95 #3A3 @ 1'-0" Alternate With A1 Bars
Construction Jt
95 #3A2 @ 1'-0" Alternate With A1 Bars
NOTE: Leave Opening (1'x3') for Catch Basin # 2 (See Sheet # 2)
95 #3A1 @ 1'-0" Alternate With A2 Bars
Reinf in Inside Face
Reinf in Outside Face
8'-0"
8'-0"
1'-0"
1'-0"
1'-0"
Cap
5 #5V11 @ 1'-0"
5 #5V10 @ 1'-0"
5 #5V9 @ 1'-0"
5 #5V6 @ 1'-0"
5 #5V7 @ 1'-0"
5 #5V8 @ 1'-0"
Construction Jt
Reinf in Bottom of Apron
#5E4
1'-6" Cap
15'-0"
#5E3
#5E2
8 #5E1 @ 2'-0"
#5E4
PLAN
SCALE: 1/4" = 1'-0"
95 #5A6 Spaced With A2 Bars
116 #4C1 @ 1'-0"
1'-0" Cap
#5A6
4 #4 All Walls
#5A1
#5A2
#5A3
#5A6
#4C1
#4C1
#4B1
1'-0"
8'-0"
1'-0"
5 #5E5
ELEVATION
SCALE: 1/4" = 1'-0"



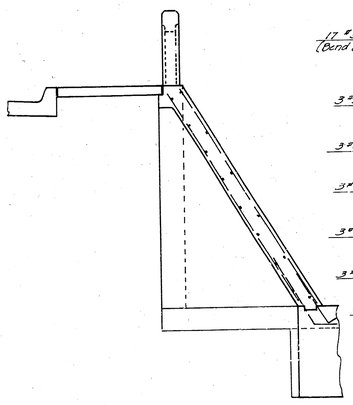
WALL DETAIL AT CORNER
NO SCALE



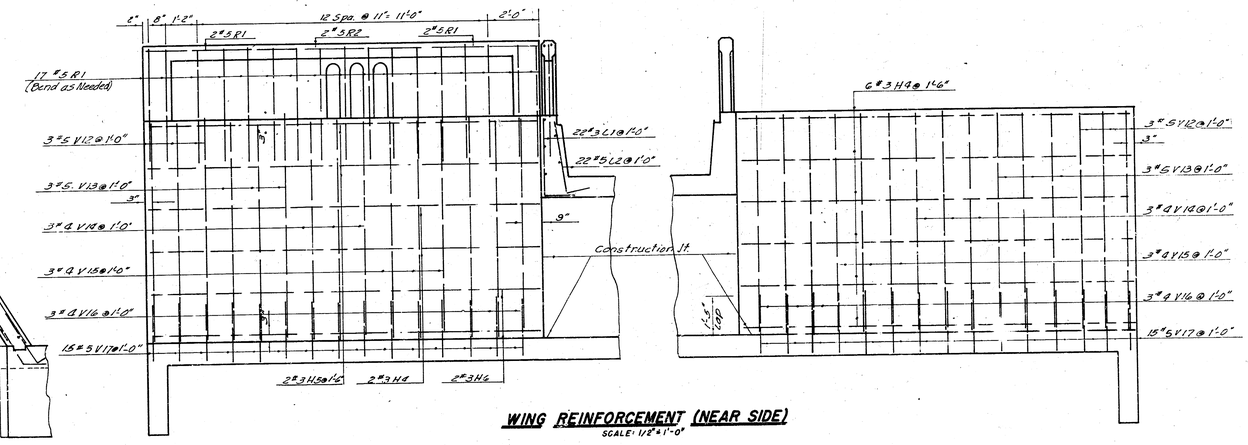
WING REINFORCEMENT (FAR SIDE)
SCALE: 1/2" = 1'-0"



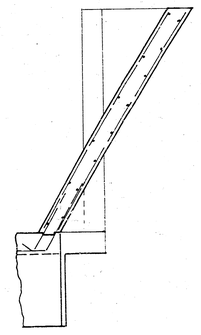
WING SECTION AT BOX



WING SECTION AT END OF WING

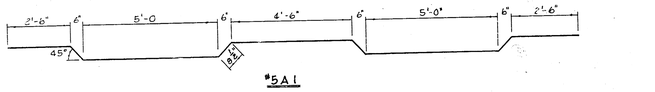


WING REINFORCEMENT (NEAR SIDE)
SCALE: 1/2" = 1'-0"

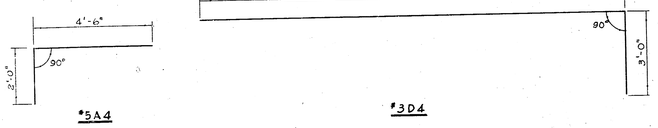


WING SECTION AT END OF WING

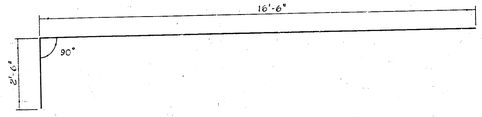
Sht. 1 of 7



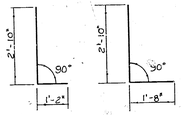
*5A1



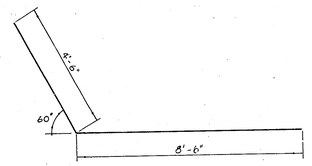
*5A4 *3D4



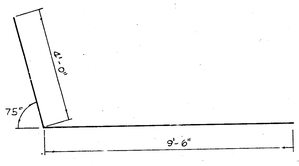
*5E1



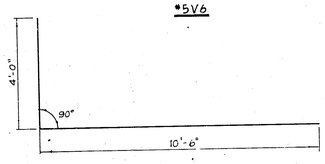
*3L1 *5L2



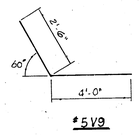
*5V6



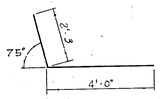
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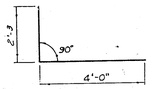
*5V8



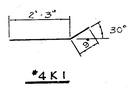
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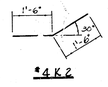
*5V10



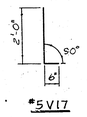
*5V11



*4K1



*4K2



*5V17

BAR SCHEDULE

BAR	SIZE	LOCATION	LENGTH	NUMBER	SHAPE	WEIGHT
A1	#5	SLAB	22'-4"	192		4472
A2	#5	"	21'-4"	190		4228
A3	#5	"	12'-0"	190		2378
A4	#5	SLAB & WALL	6'-6"	380		2576
B1	#4	"	38'-0"	213		5549
C1	#4	WALL	6'-3"	460		1921
D1	#3	APRON	19'-6"	10		73
D2	#3	"	17'-0	10		64
D3	#3	"	15'-6	8		47
D4	#3	"	19'-0"	30		214
D5	#3	"	12'-0"	6		27
D6	#3	"	17'-0"	4		26
D7	#3	"	5'-6"	4		8
E1	#5	"	19'-0"	16		317
E2	#5	"	11'-0"	2		23
E3	#5	"	5'-0"	2		10
E4	#5	"	17'-0"	4		71
E5	#5	"	14'-6"	10		151
H1	#4	WINGWALL	15'-0"	22		220
H2	#4	"	14'-9"	6		59
H3	#4	"	15'-6"	4		41
H4	#3	"	15'-0"	16		90
H5	#3	"	14'-9"	4		22
H6	#3	"	15'-6"	4		23
K1	#4	WALL & WINGWALL	3'-0"	64		128
K2	#4	"	3'-0"	32		64
L1	#3	HUBGUARD	4'-0"	44	L	66
L2	#5	"	4'-6"	44	L	207
M1	#3	"	21'-3"	6		48
M2	#5	"	21'-3"	4		89
R1	#5	HANDRAIL	4'-0"	92		384
R2	#5	"	6'-0"	12		75
R3	#5	"	8'-0"	4		33
V1	#5	WINGWALL	8'-9"	12		110
V2	#5	"	8'-6"	12		106
V3	#5	"	8'-3"	12		103
V4	#5	"	8'-0"	12		100
V5	#5	"	7'-9"	12		97
V6	#5	WINGWALL & APRON	13'-0"	20	L	271
V7	#5	"	13'-6"	20	L	282
V8	#5	"	14'-6"	20	L	302
V9	#5	"	6'-6"	20	L	136
V10	#5	"	6'-3"	20	L	130
V11	#5	"	6'-3"	20	L	130
V12	#5	WINGWALL	8'-9"	12		110
V13	#5	"	8'-6"	12		106
V14	#4	"	8'-3"	12		66
V15	#4	"	8'-0"	12		64
V16	#4	"	7'-9"	12		62
V17	#5	WINGWALL & APRON	2'-6"	60	L	156