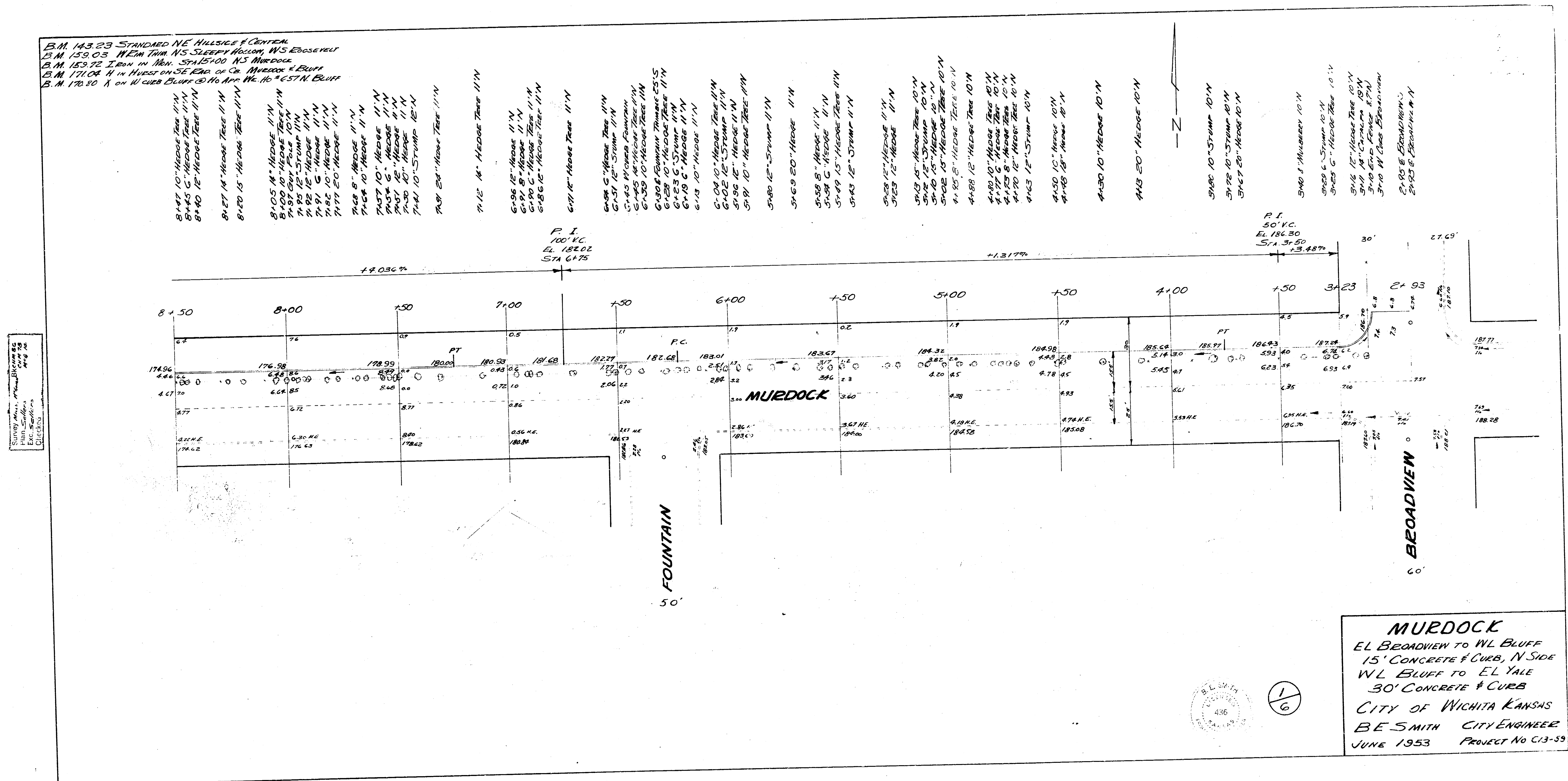
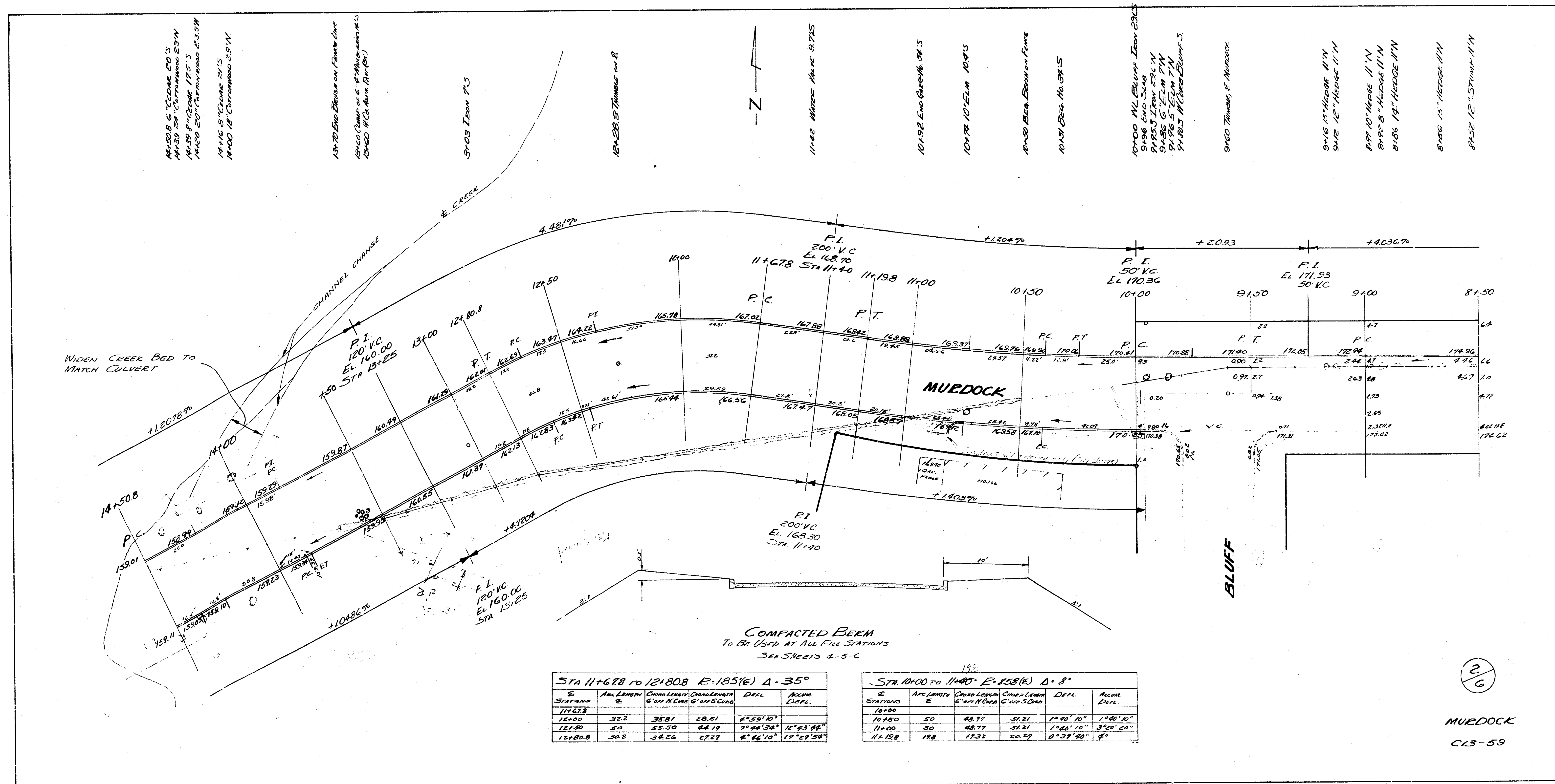
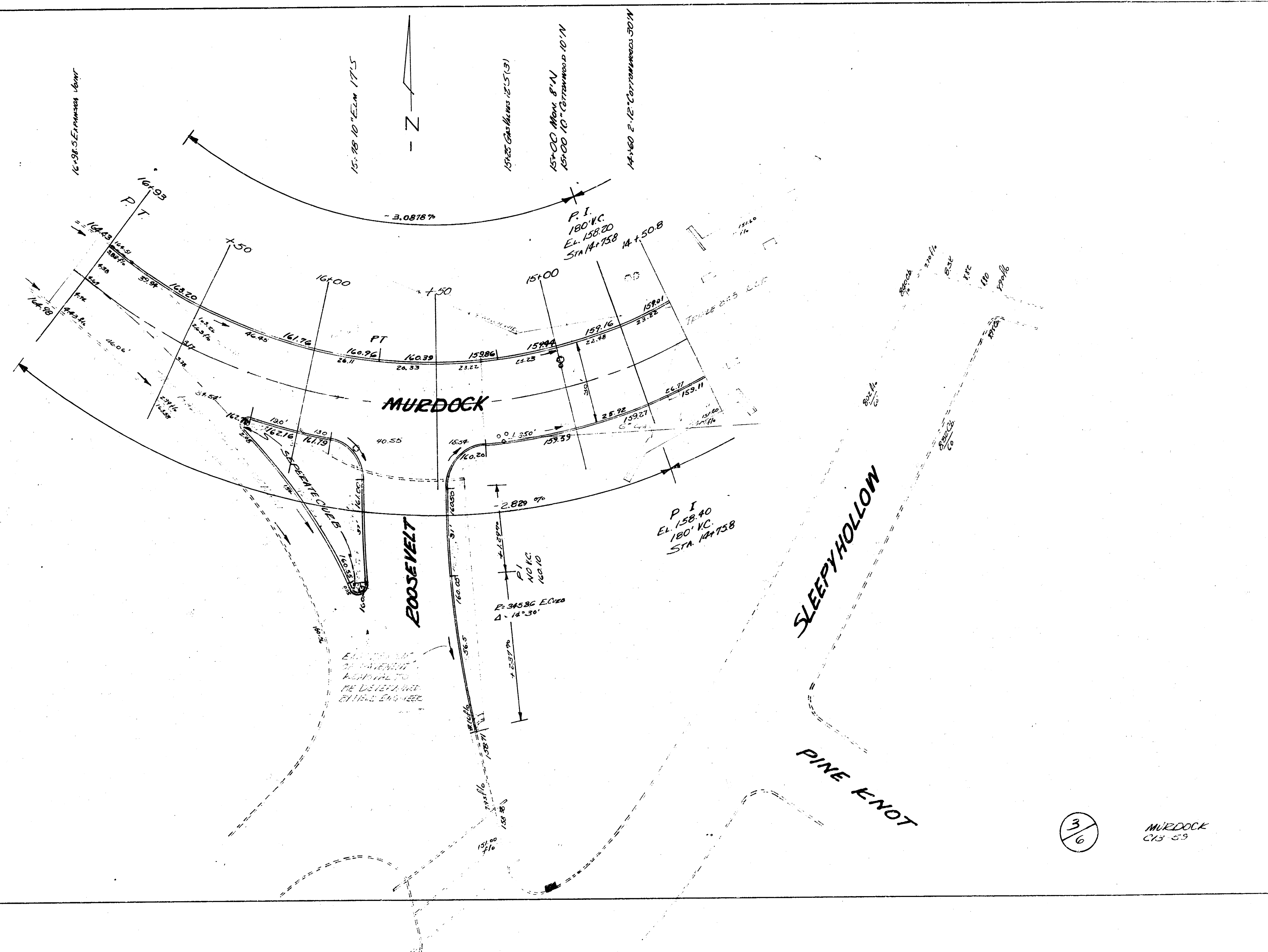






STA 14+50.8 TO 16+93 E=21118, Δ=65°46'

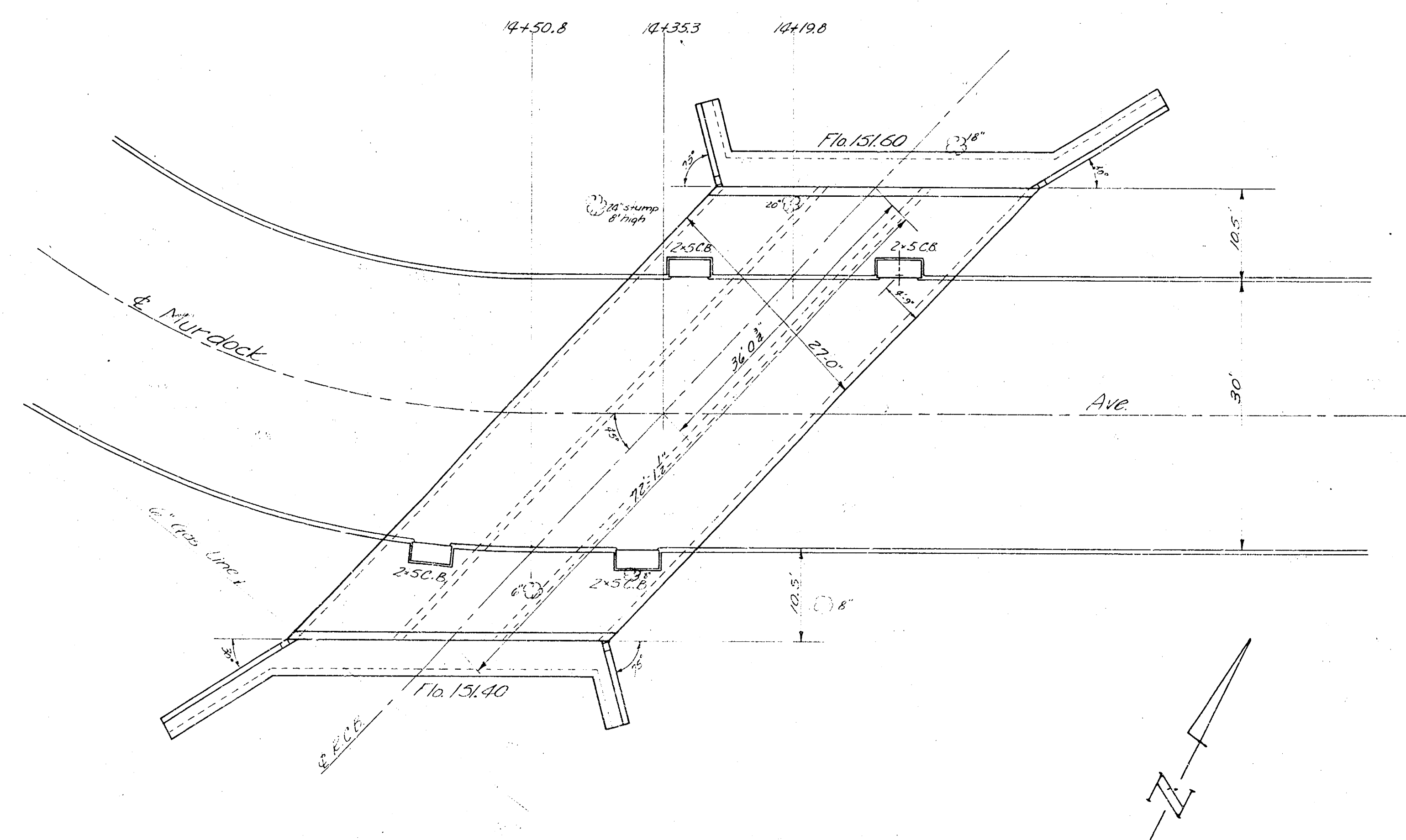
E. STATIONS	ARC LENGTH S	CHORD LENGTH G' 0.1111 CURVE	CHORD LENGTH G' 0.1111 CURVE	DEFL.	ACCUM. DEFL.
14+50.8					
14+75.8	25	22.80	27.47	3° 23' 40"	
15+00	25	22.78	27.43	3° 17' 48"	6° 40' 48"
15+25	25	22.60	27.07	3° 23' 40"	10° 04' 28"
15+50	"	"	"	"	13° 28' 08"
15+75	"	"	"	"	16° 51' 48"
16+00	"	"	"	"	20° 15' 28"
16+25	"	"	"	"	23° 38' 08"
16+50	"	"	"	"	27° 01' 48"
16+93	43	38.65	47.20	3° 50' 12"	30° 51' 05"



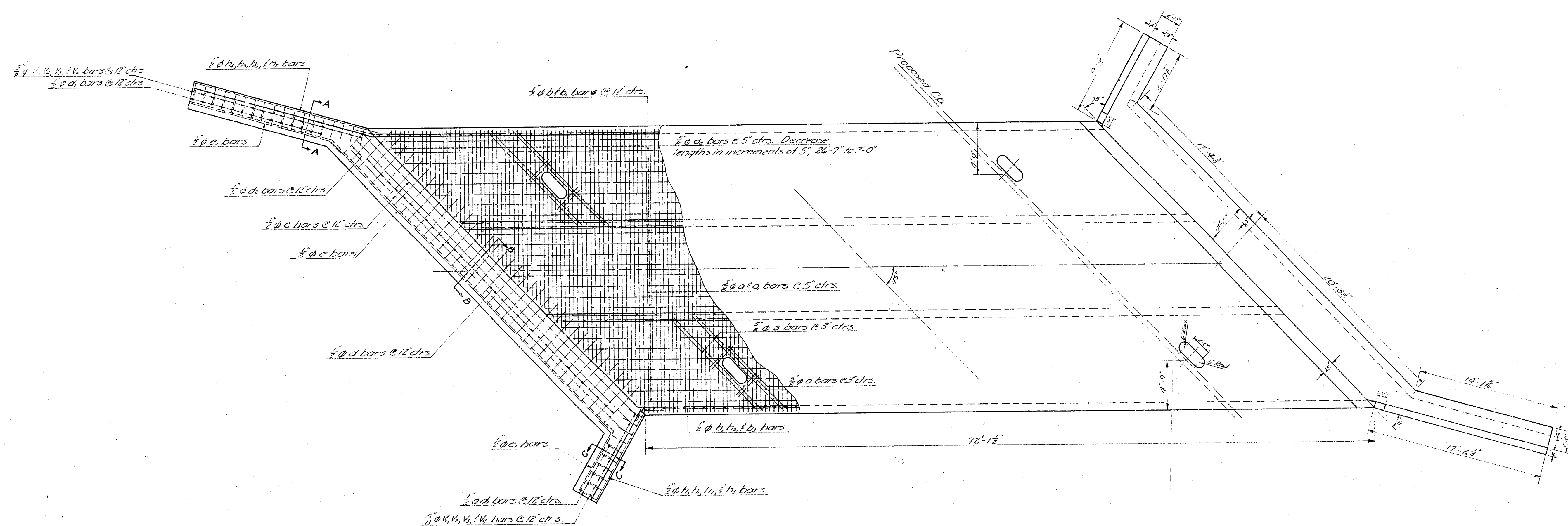
3/6

MURDOCK
C13 53

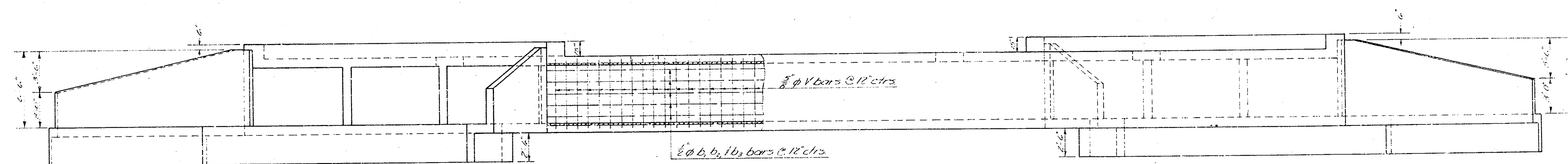
3 - 8'x5' R.C.B.
MURDOCK AVE.



PLAN LAYOUT
Scale: 1" = 10'

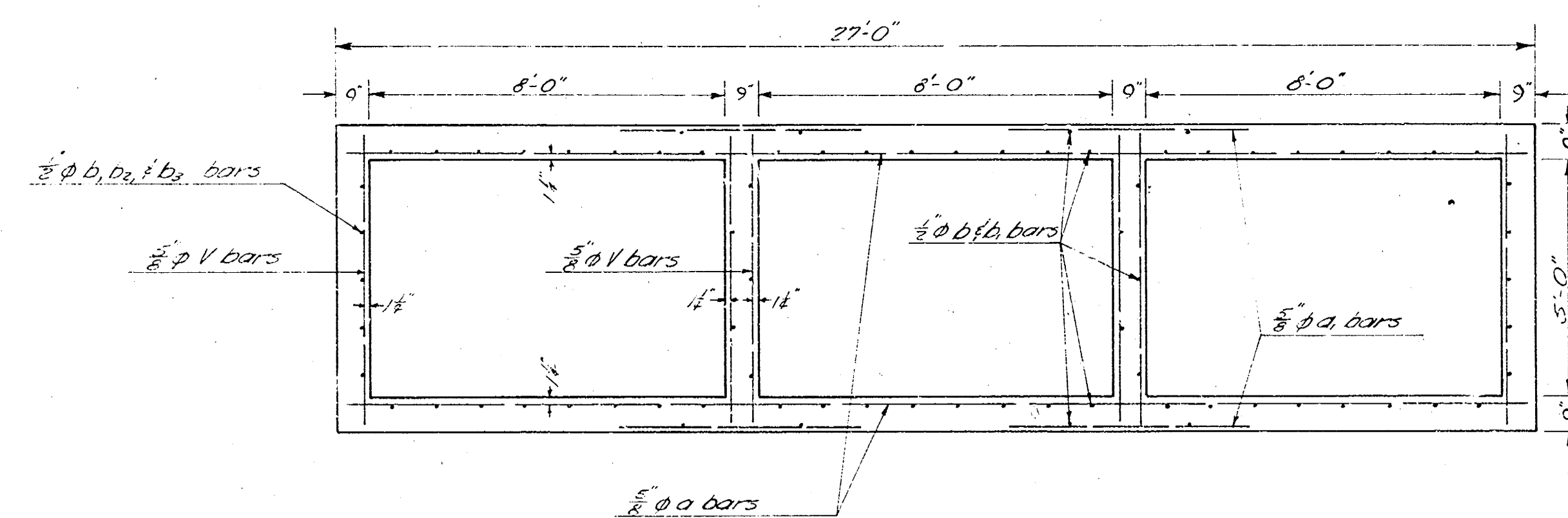


PLAN VIEW
Scale: $\frac{1}{8}$ " = 1'-0"

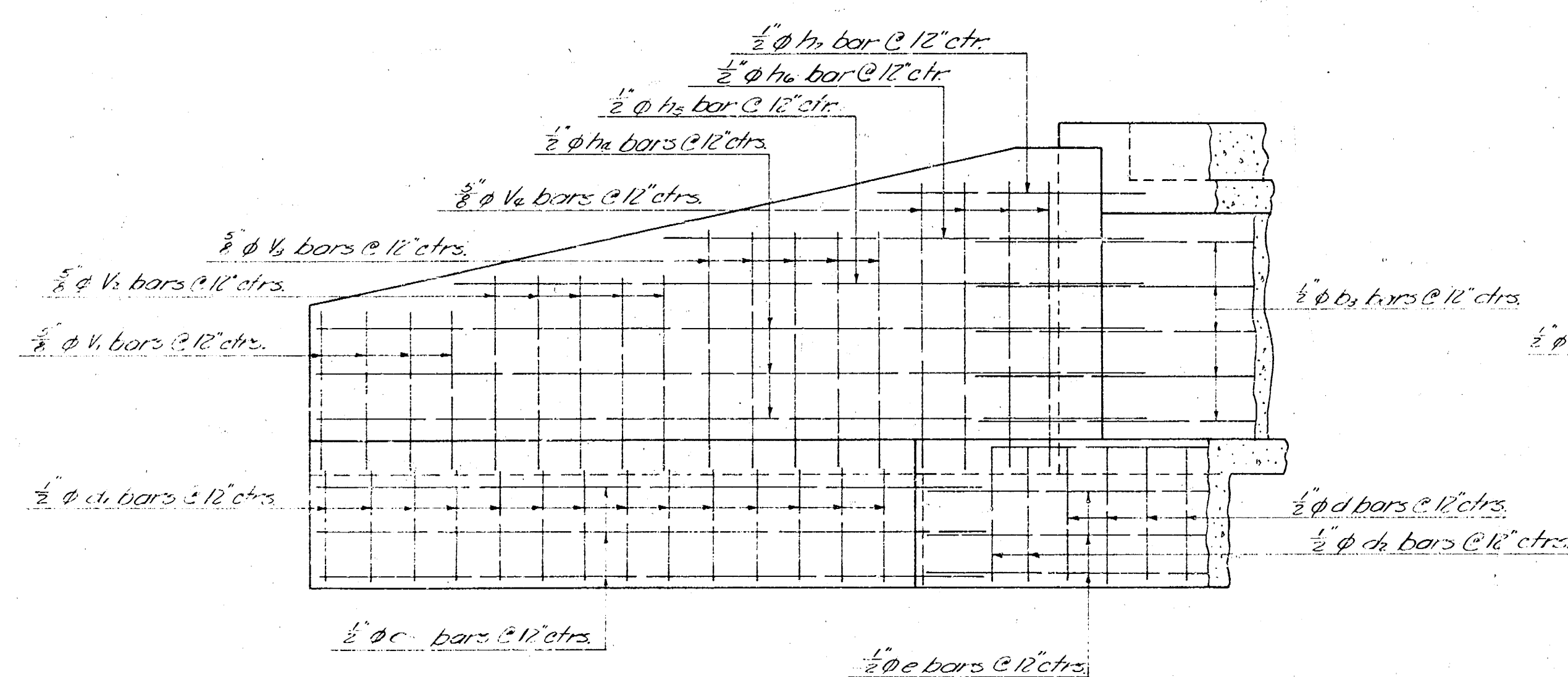


SIDE ELEVATION
Scale: $\frac{1}{8}$ " = 1'-0"

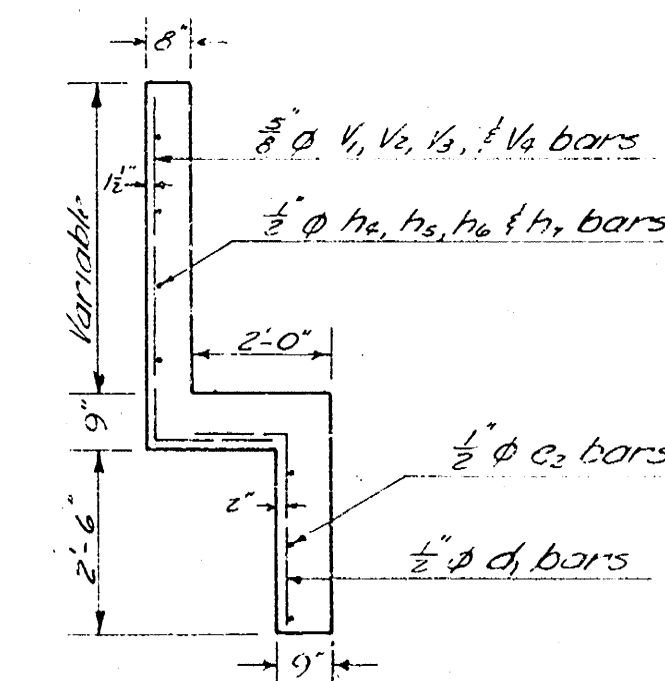
NOTE: Excavation is to be extended 2.0' beyond sides of the box & wingwalls. Backfill is to be carried to original ground elevation. Backfill is to be sand stabilized and mechanically tamped.



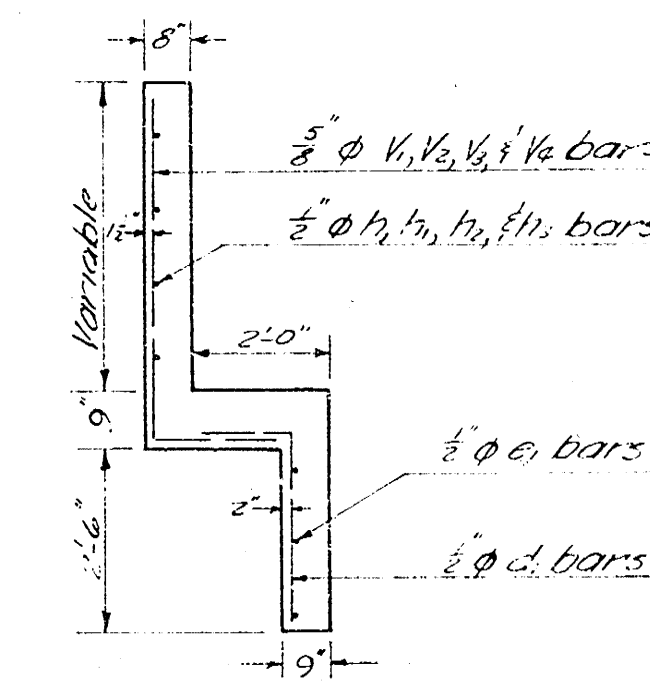
CROSS SECTION OF BOX
Scale: $\frac{1}{8}'' = 1'-0''$



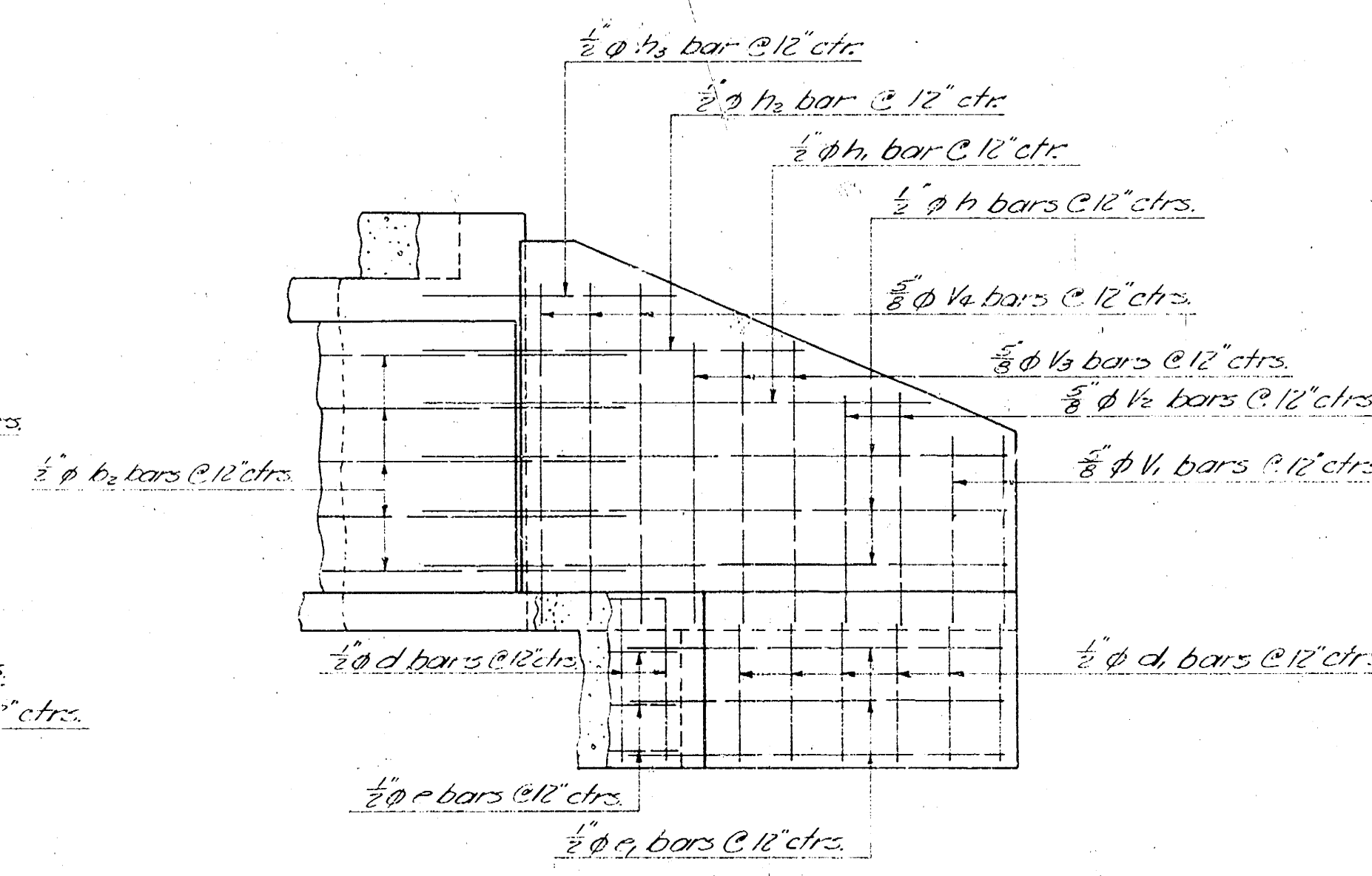
LONGITUDINAL SECTION OF WINGWALL
Scale: $\frac{1}{8}'' = 1'-0''$



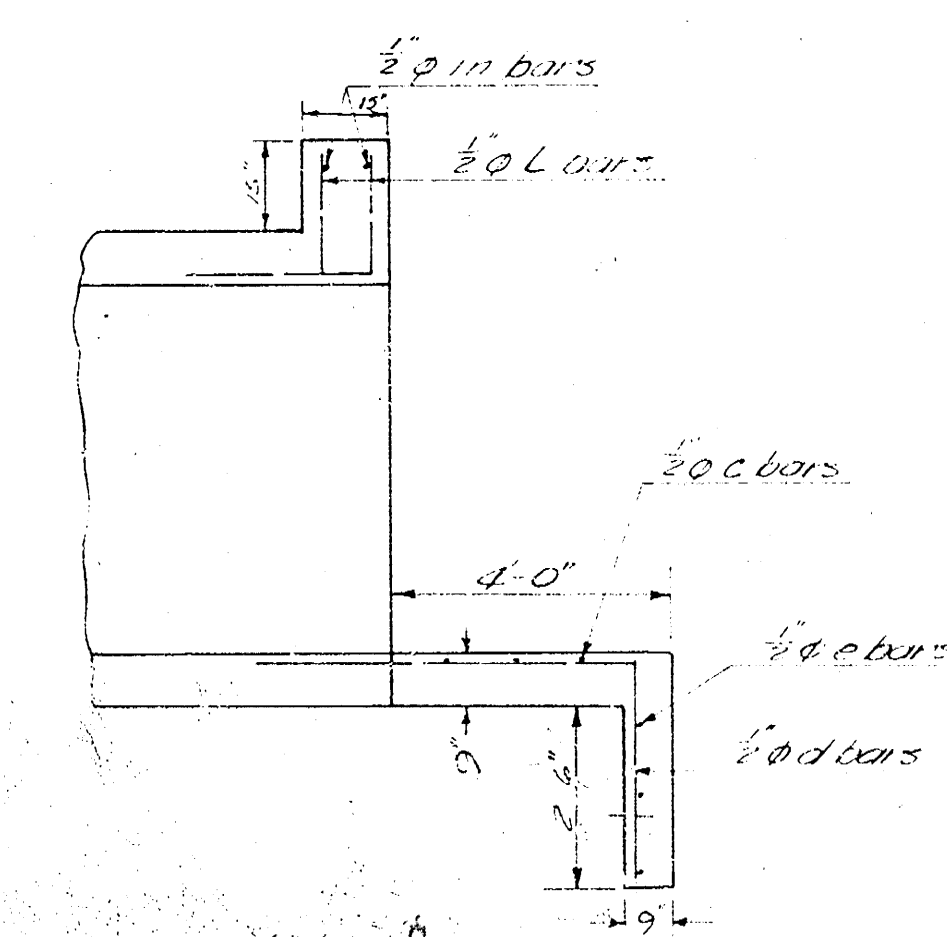
SECTION A-A
No Scale



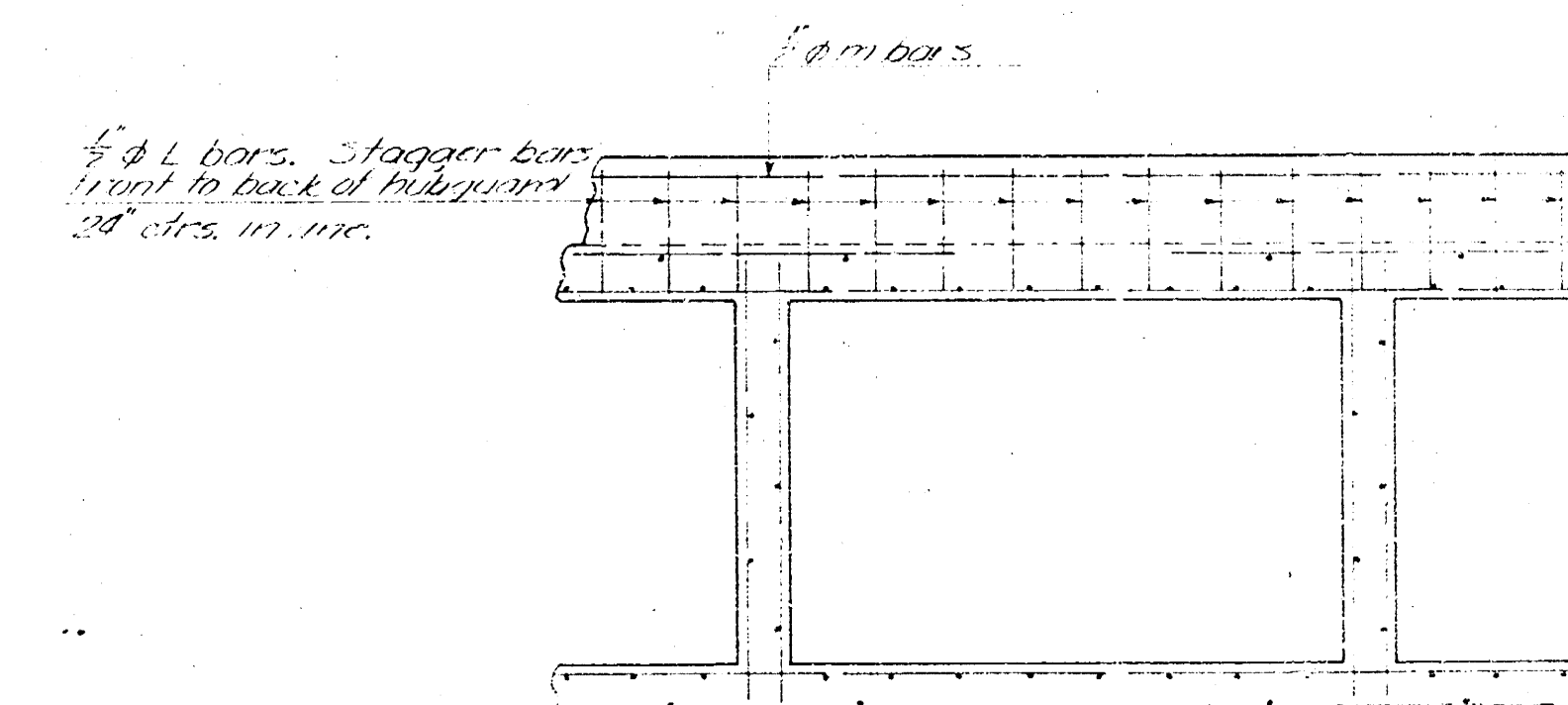
SECTION C-C
No Scale



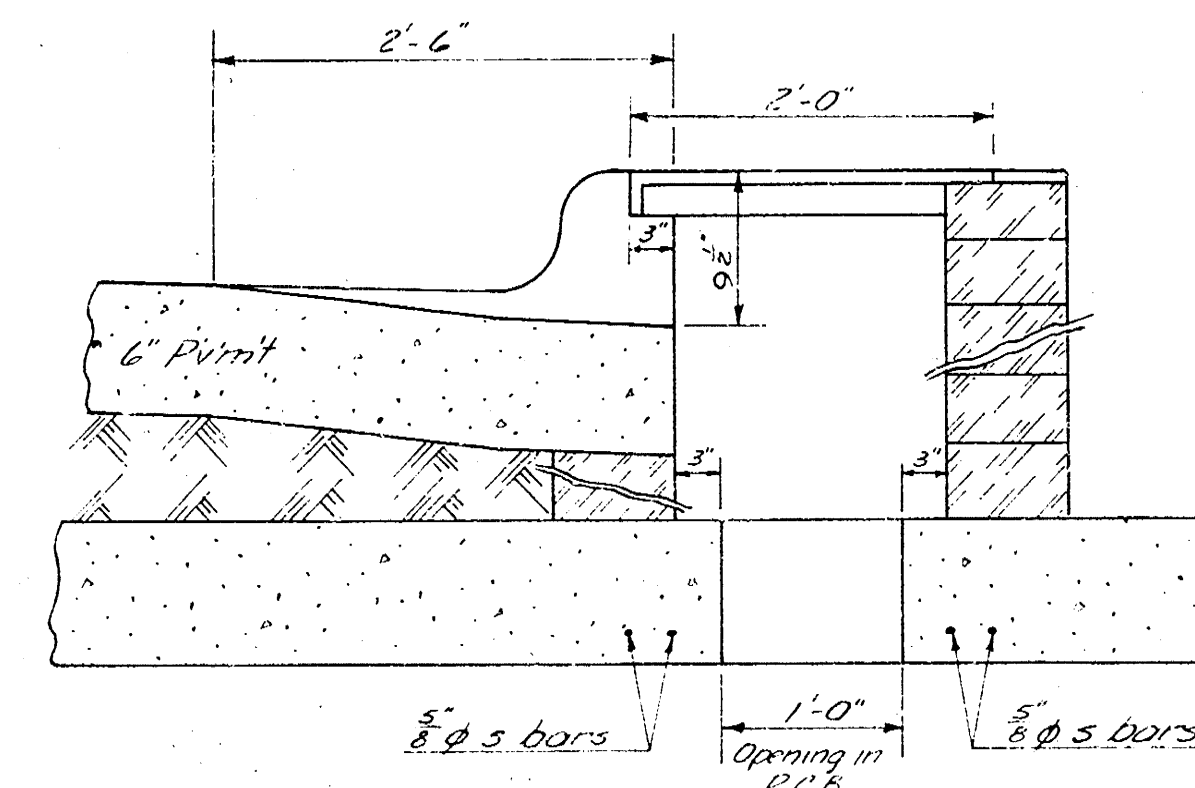
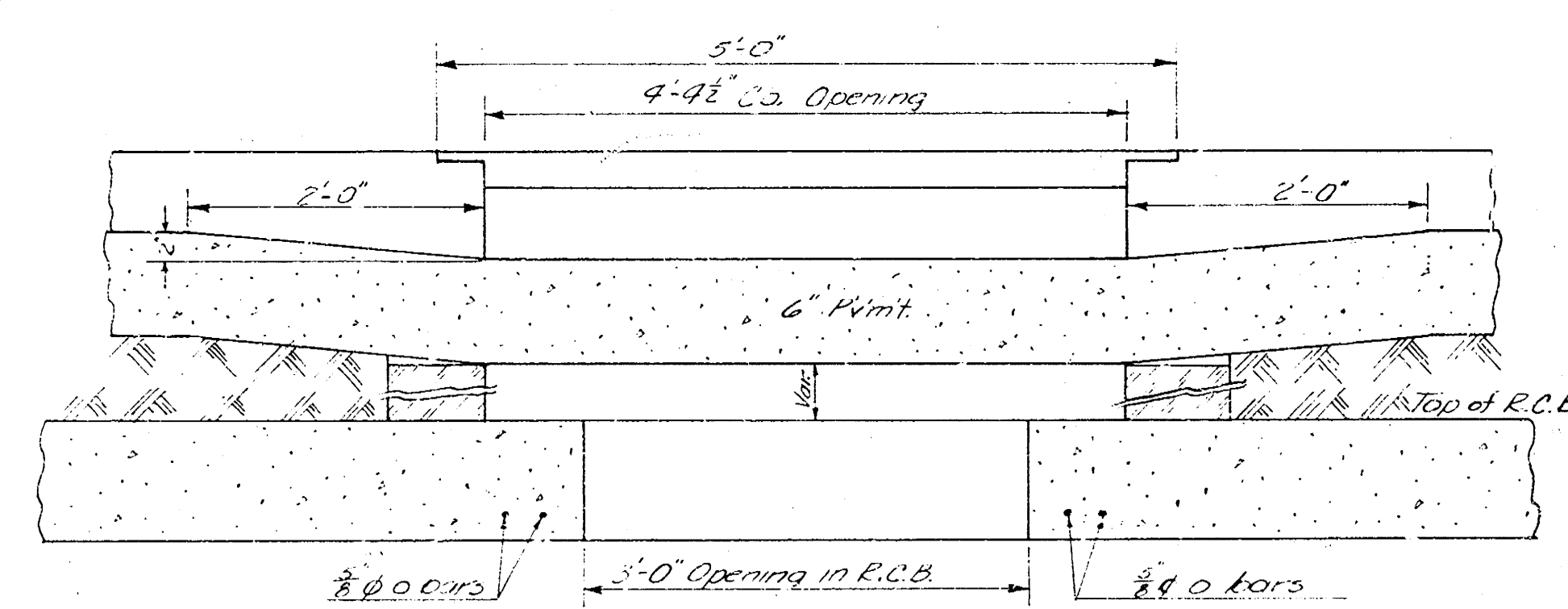
LONGITUDINAL SECTION OF WINGWALL
Scale: $\frac{1}{8}'' = 1'-0''$



SECTION B-B
Scale: $\frac{1}{8}'' = 1'-0''$

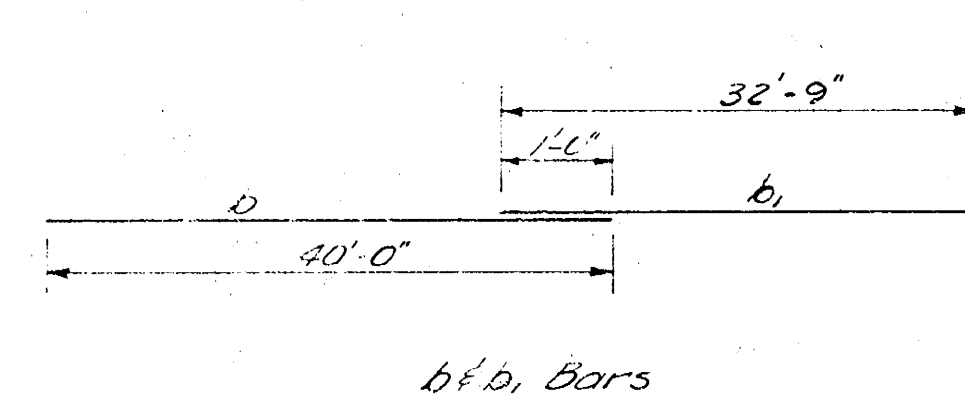


SECTION OF BOX & HUBGUARD
Scale: $\frac{1}{8}'' = 1'-0''$

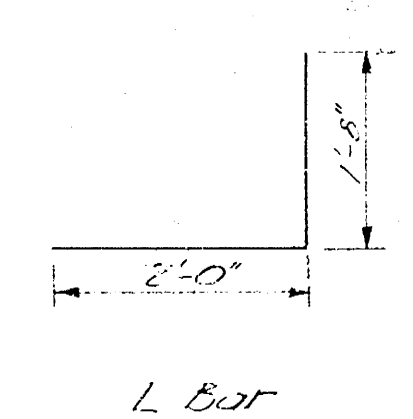
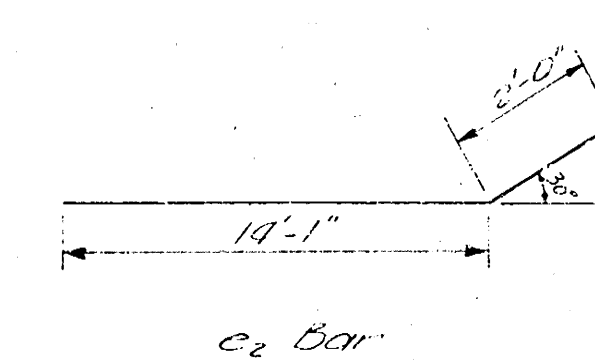
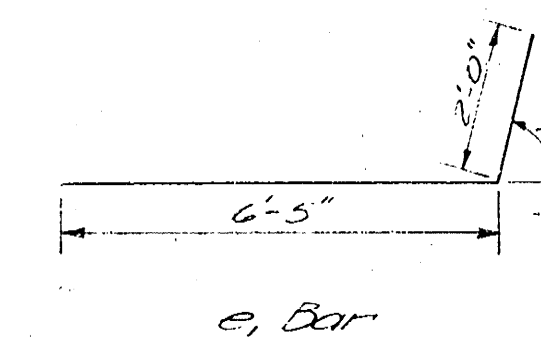
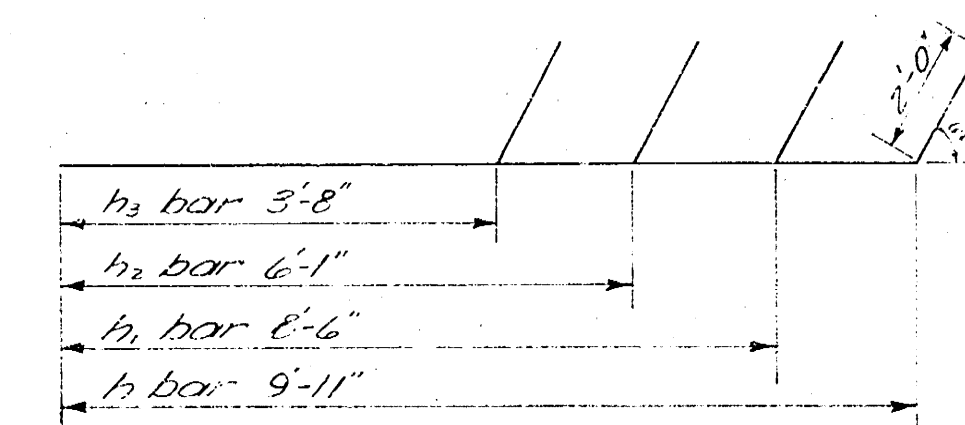
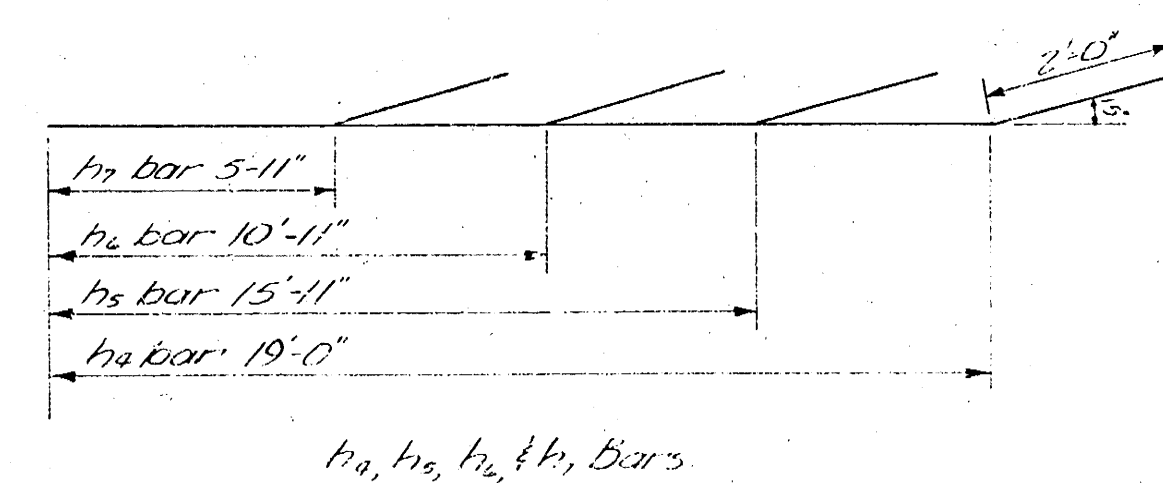
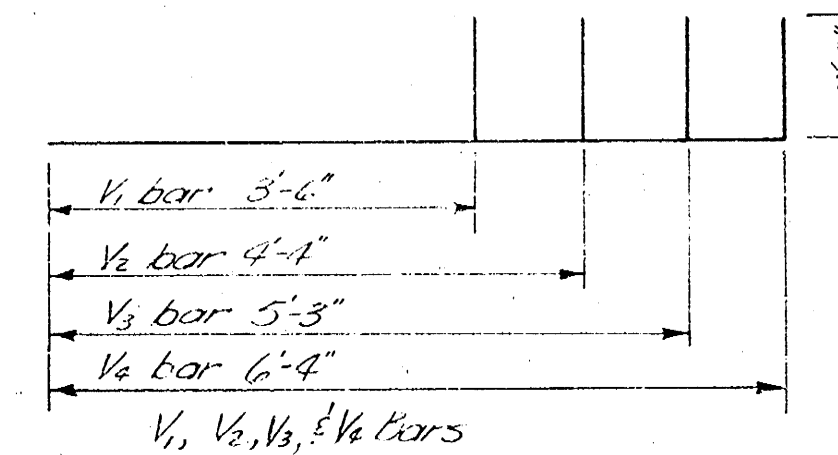
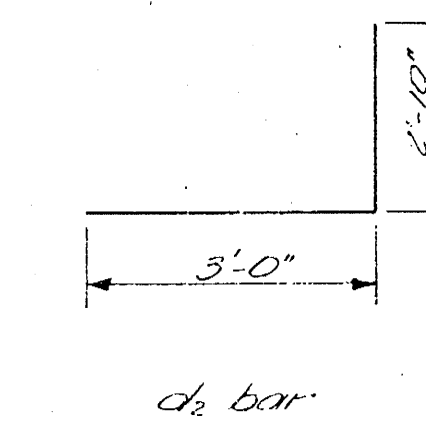
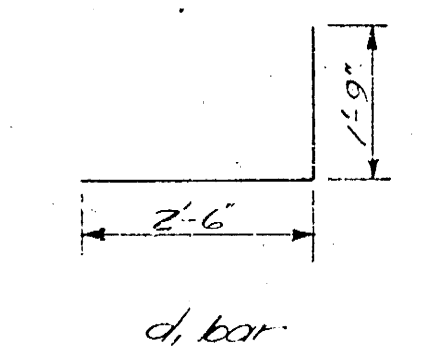
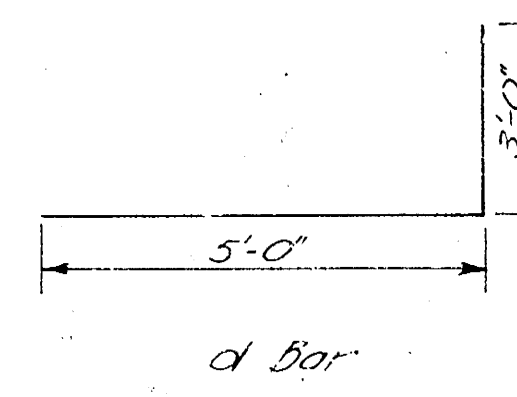
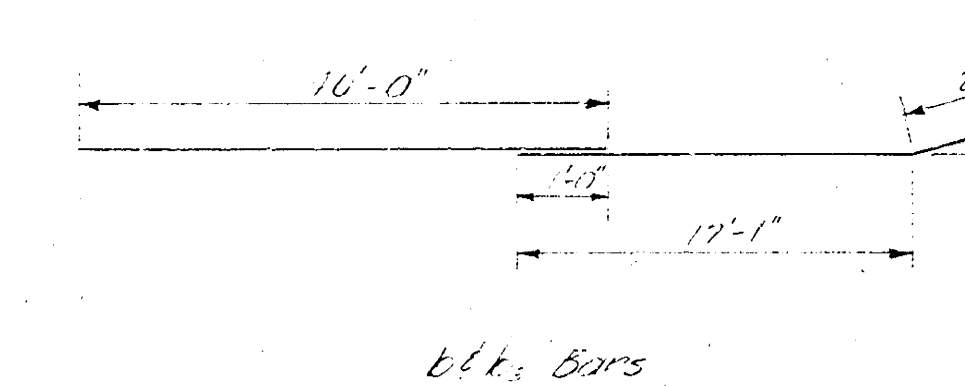
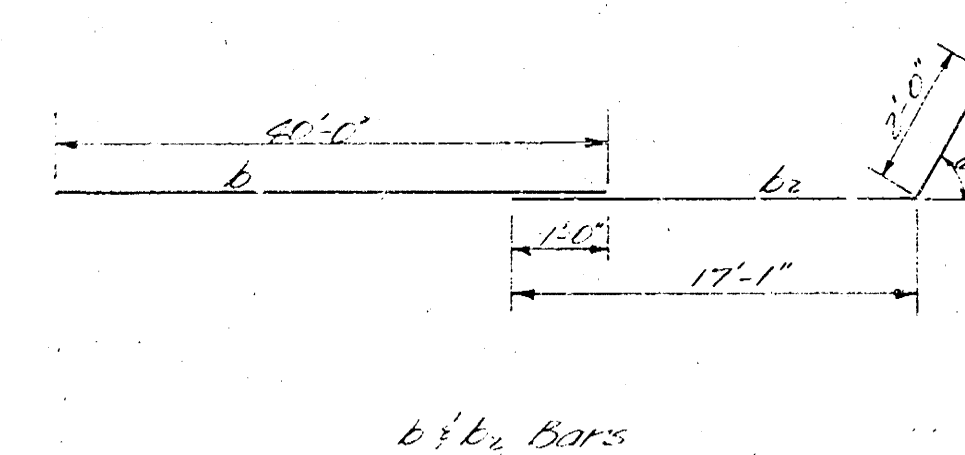


SECTIONS THROUGH CATCH BASINS
Scale: 1" = 1'-0"

STEEL SCHEDULE									
BAR	SIZE	NO.	LENGTH	SHAPE	BAR	SIZE	NO.	LENGTH	SHAPE
a	#4	214	26'-8"	—	m	#4	2	12'-11"	—
a	#4	80	26'-8"	—	n	#4	2	7'-11"	—
a	#4	656	5'-6"	—	l	#4	78	3'-6"	—
b	#4	76	40'-0"	—	m	#4	4	37'-4"	—
b	#4	66	32'-9"	—	o	#4	16	3'-0"	—
b	#4	10	19'-1"	—	s	#4	16	12'-4"	—
b	#4	10	19'-1"	—	v	#4	288	6'-8"	—
c	#4	6	38'-0"	—	w	#4	12	5'-6"	—
d	#4	70	8'-0"	—	x	#4	18	6'-4"	—
d	#4	40	4'-3"	—	y	#4	16	7'-3"	—
d	#4	42	5'-10"	—	z	#4	18	6'-3"	—
e	#4	6	38'-8"	—					
e	#4	6	8'-5"	—					
e	#4	6	16'-1"	—					
f	#4	6	11'-11"	—					
f	#4	2	10'-6"	—					
f	#4	2	8'-1"	—					
f	#4	2	5'-8"	—					
f	#4	6	31'-0"	—					
f	#4	2	17'-11"	—					



NOTE: Alternate splice of b1, b2 bars at opposite ends of the box.



BAR BENDING DIAGRAMS No Scale

ITEM	QUANTITY	UNITS
Class B Concrete	179.60	Cu Yd
General Excavation	139.0	Cu Yd
Hand Excavation	19.1	Cu Yd
Compacted Backfill-Sand	25	TON
Reinf. Steel	20,935	LBS
Catch Basins	4	Complete
Large Trees Removed	3	
Small Trees Removed	2	