

2-10'x6' R.C.B.C.

CHERRY CREEK DRIVE

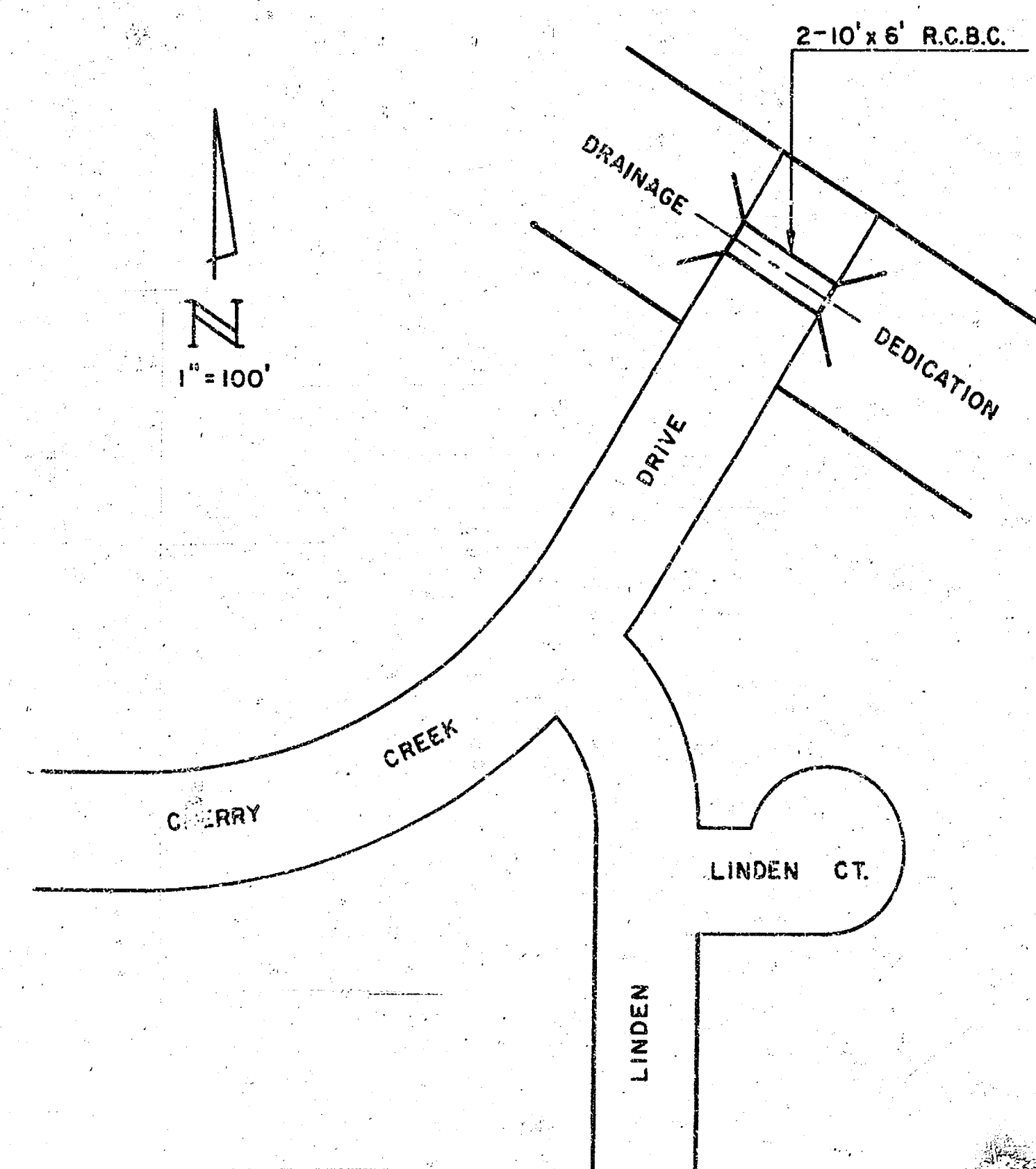
HEDGECLIFF ADDn

CITY OF WICHITA, KANSAS

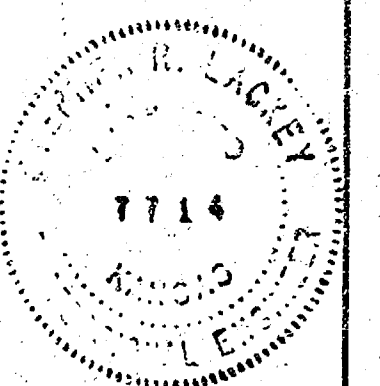
D.S. SELLERS CITY ENGINEER

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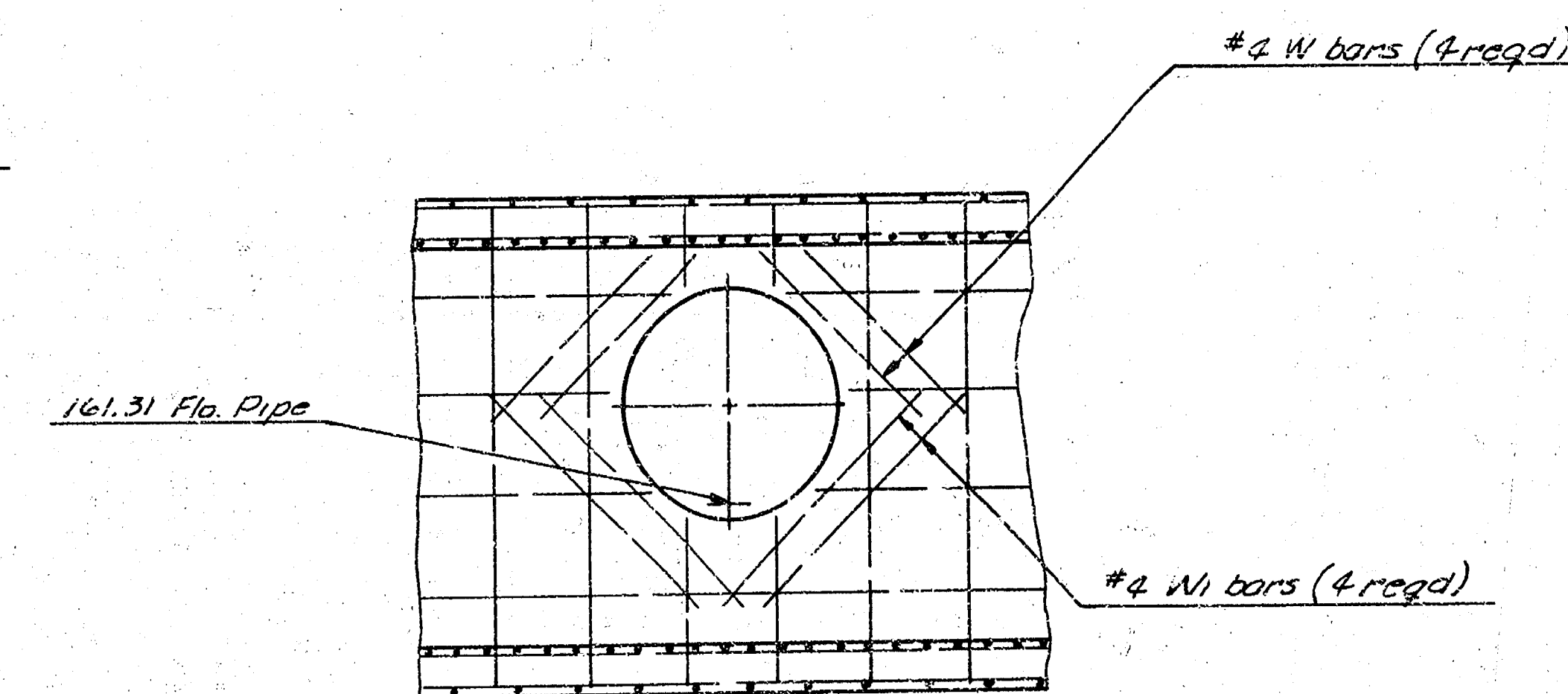
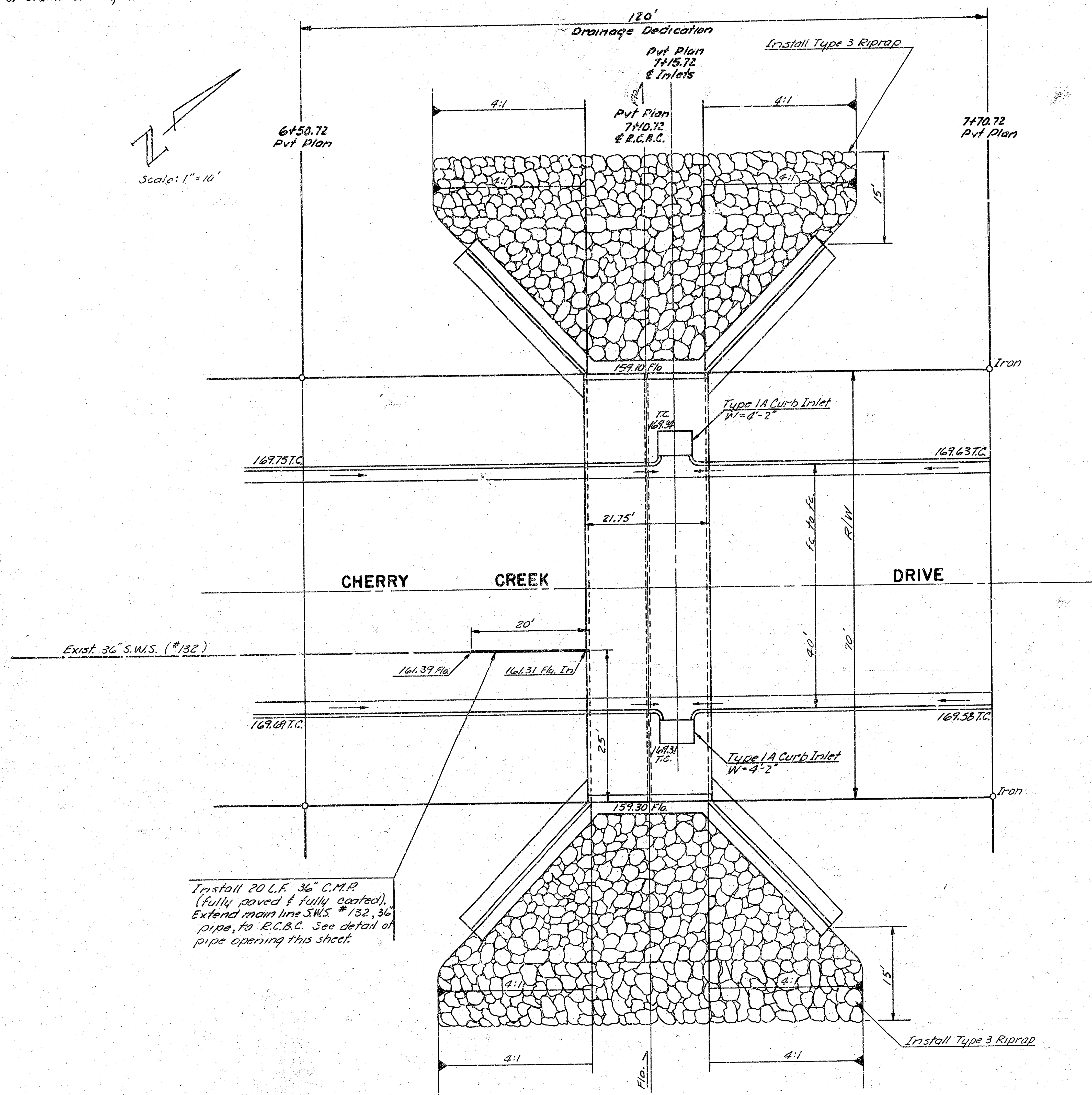
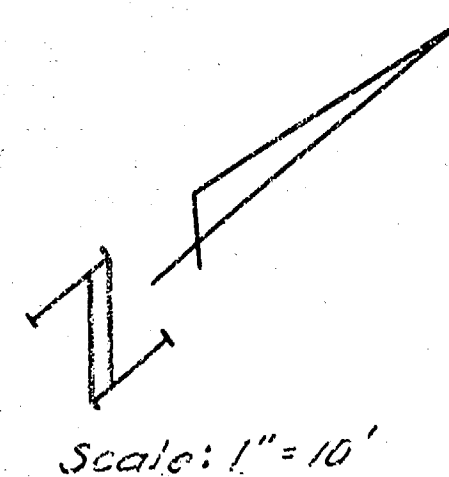
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LOCATION MAP



B.M. 178.46 Top W. Curb Rosalie, 5.5' S. of S. Line Cherry Creek Drive



DETAIL - 36" PIPE OPENING
3/8" = 1'-0"

Design Data	
Area Drained	270 Acres
Flow	500 cfs
Depth of Flo. in channel	3'
Depth of Flo. in box	3'
O.W.S.	U.S. 163.2 O.S. 162.1
N.W.S.	U.S. 159.3 O.S. 159.1

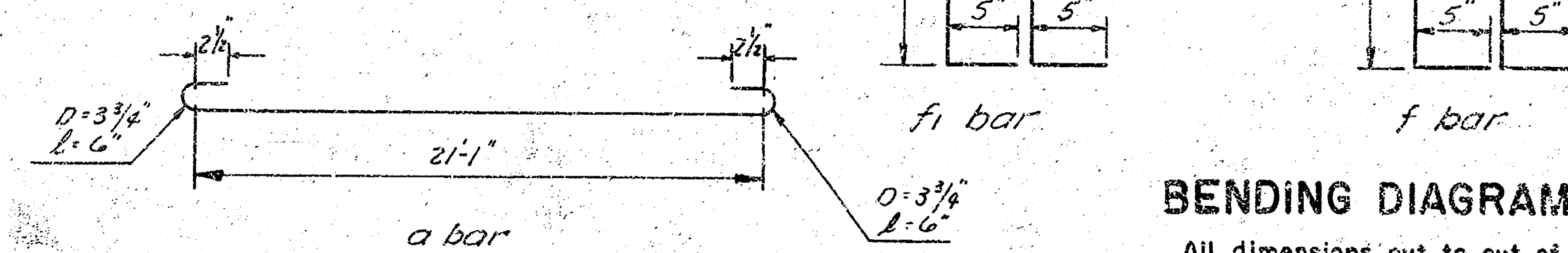
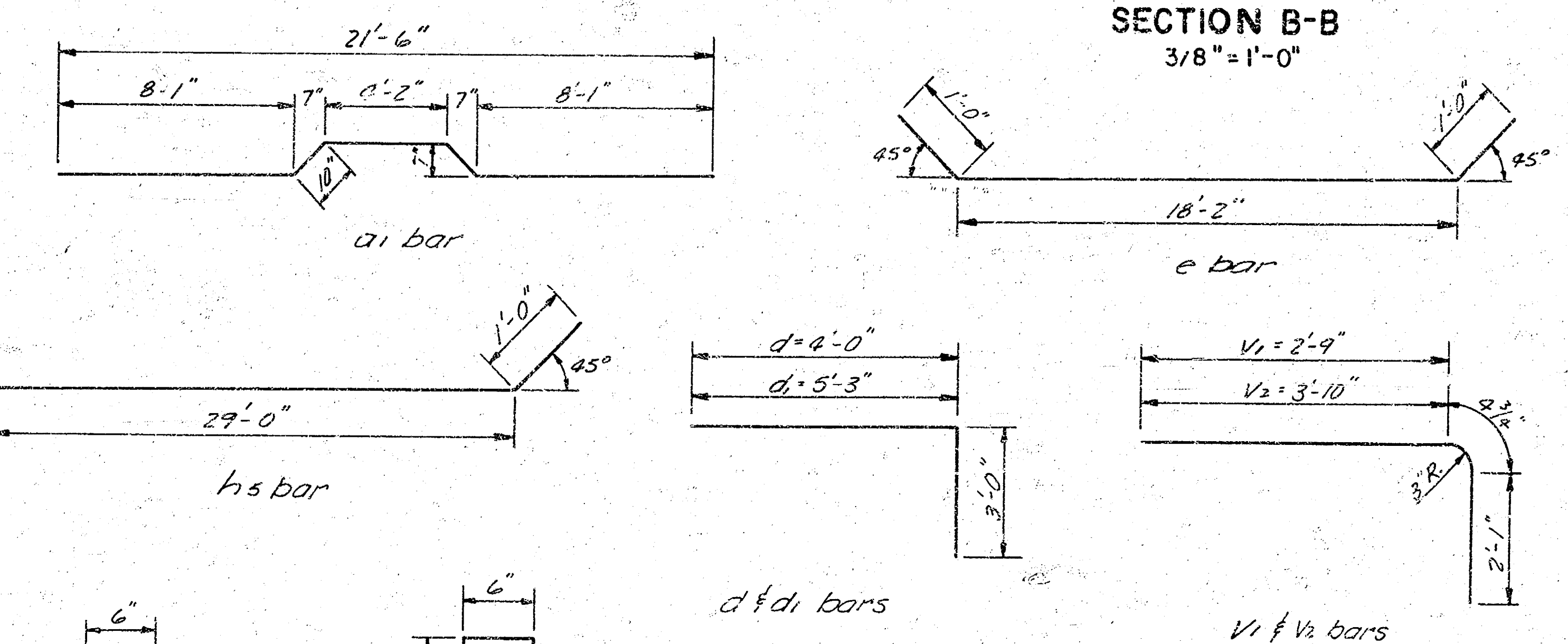
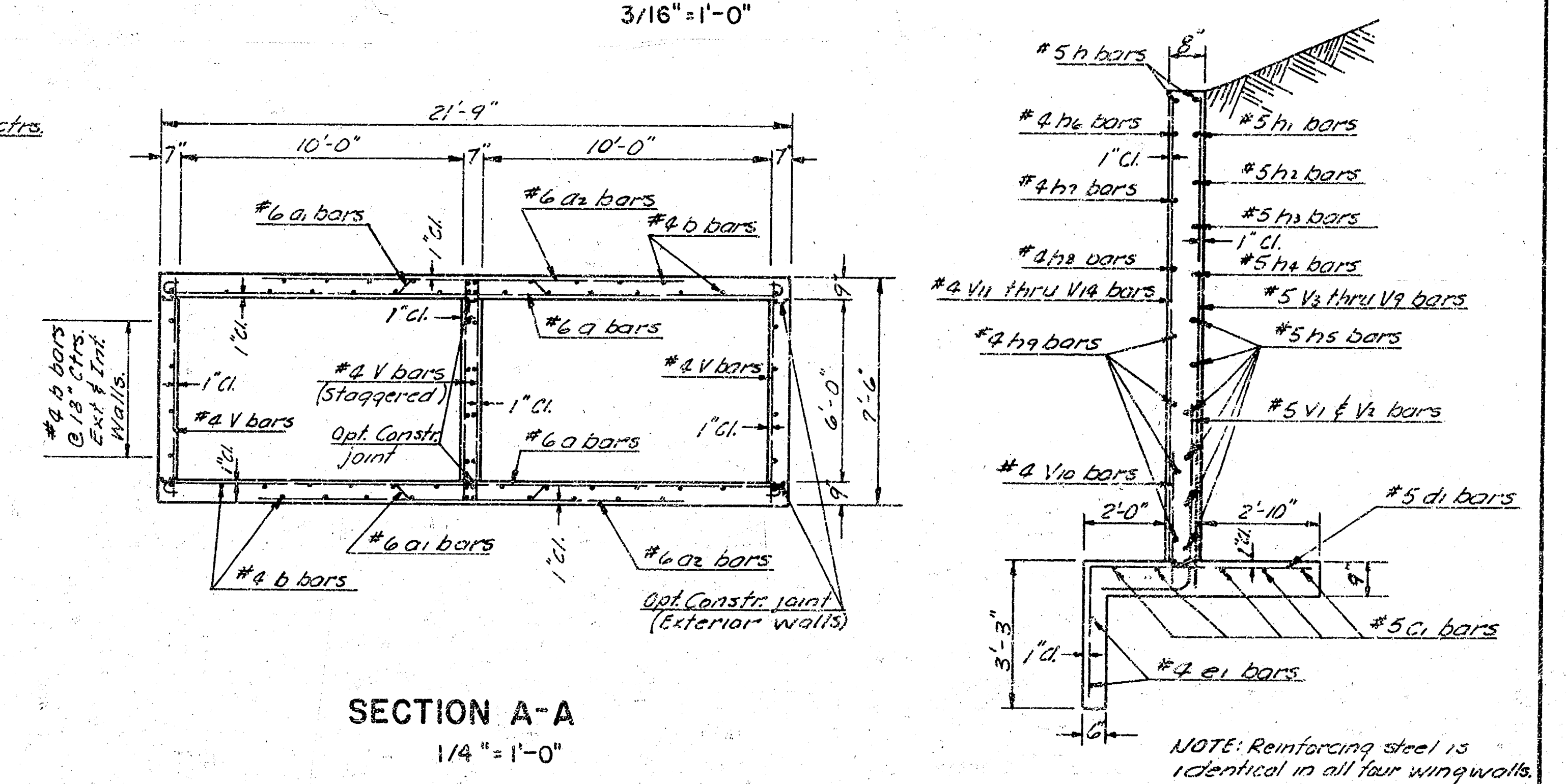
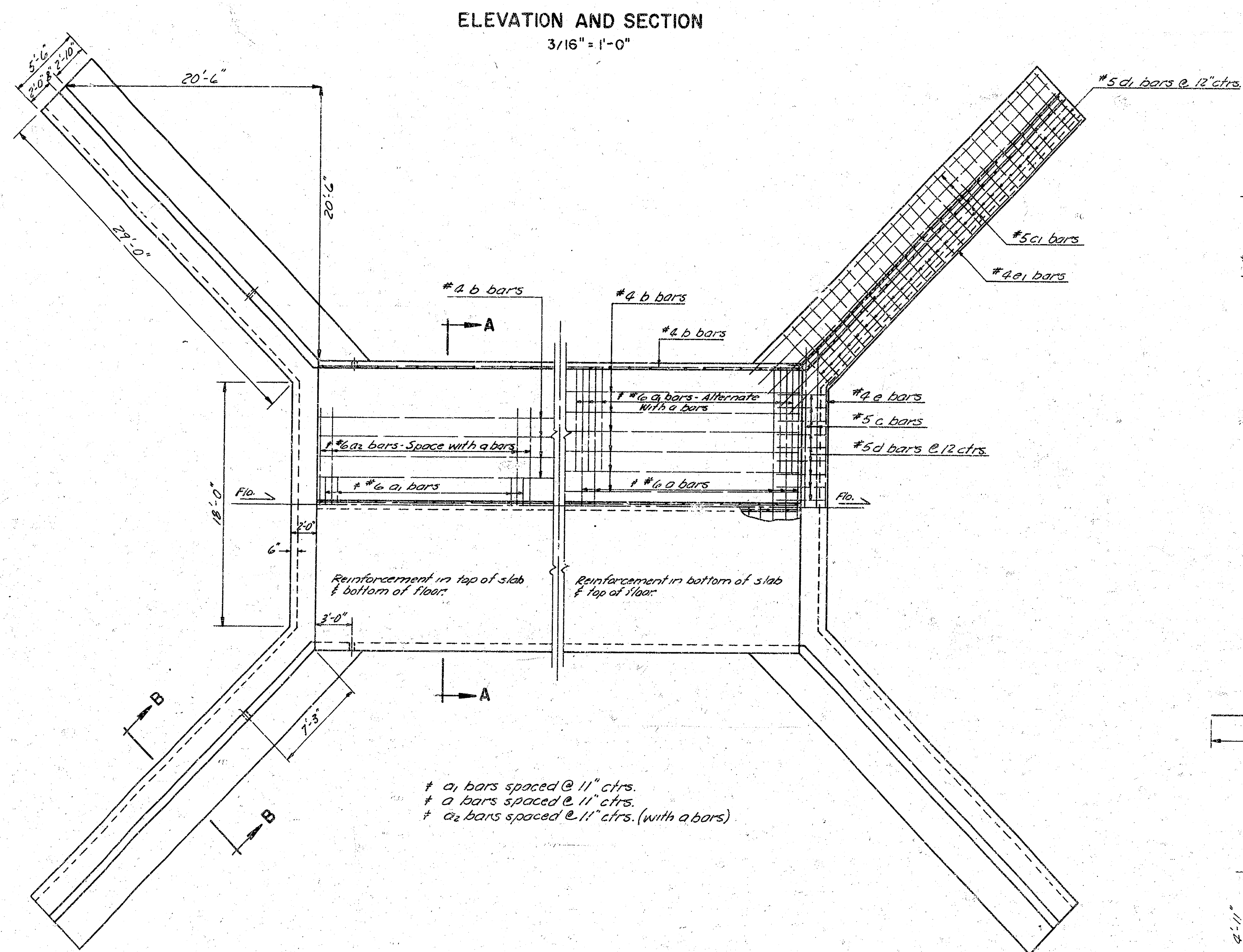
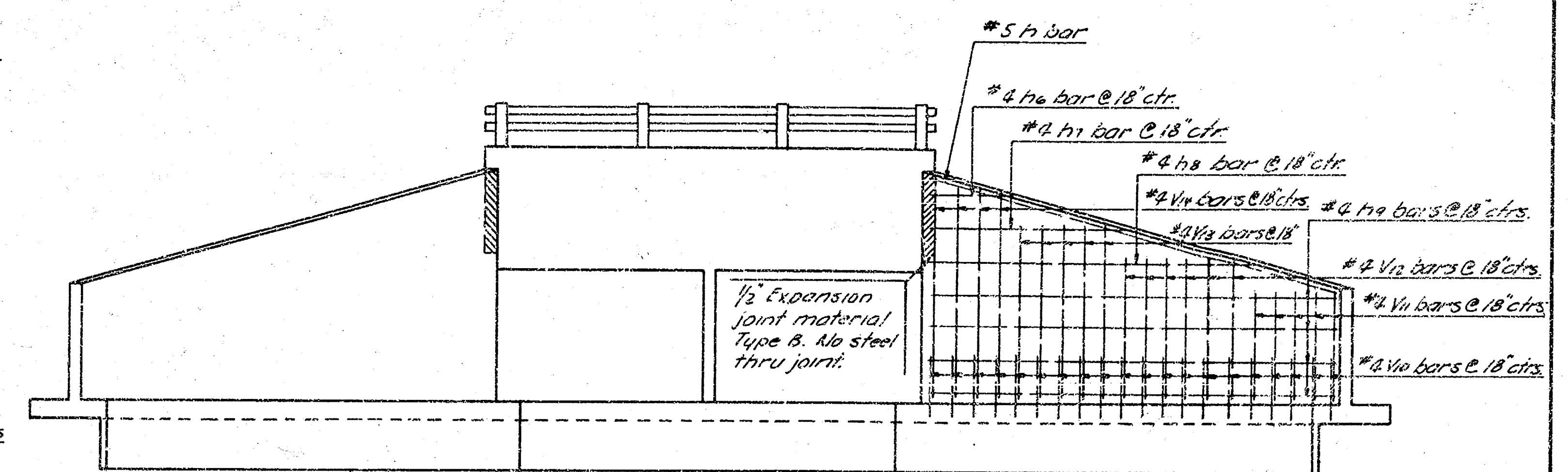
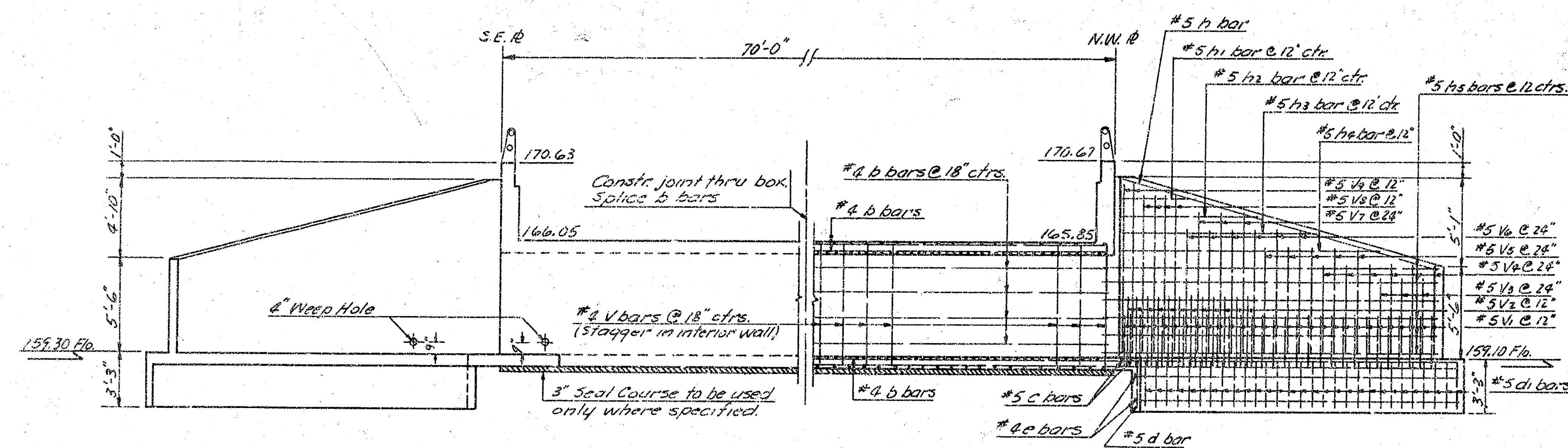
2-10'x6' R.C.B.C.
CHERRY CREEK DRIVE
HEDGECLIFF ADDN

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SHOWN DEC
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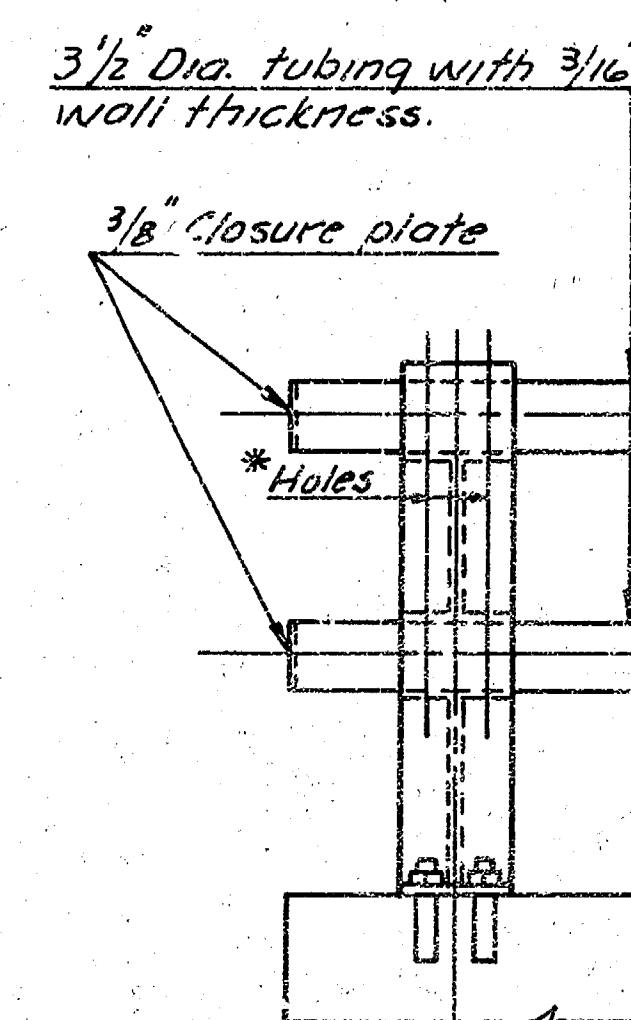
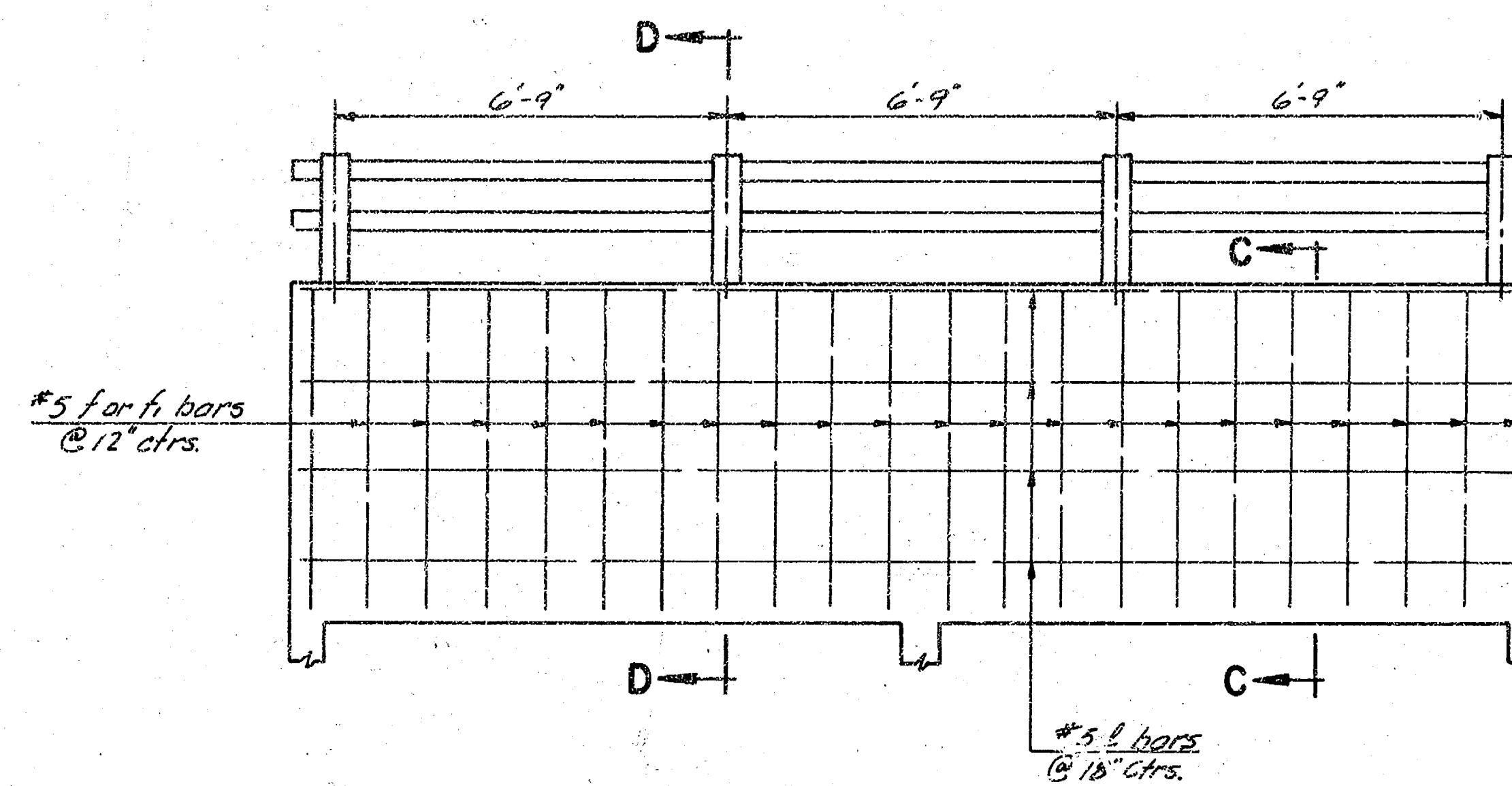
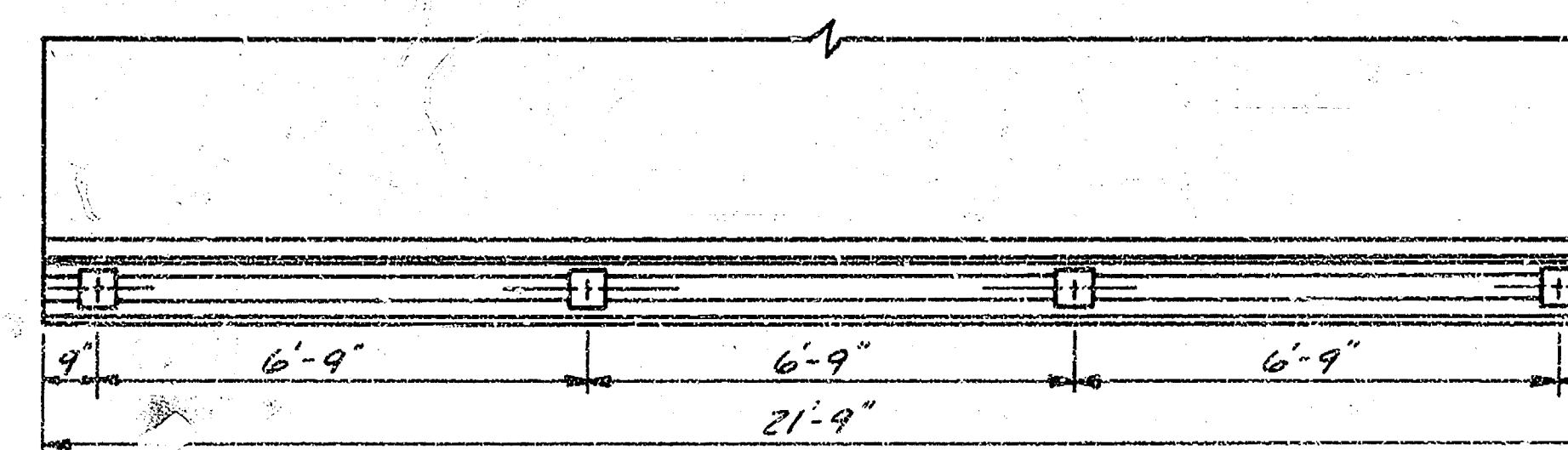
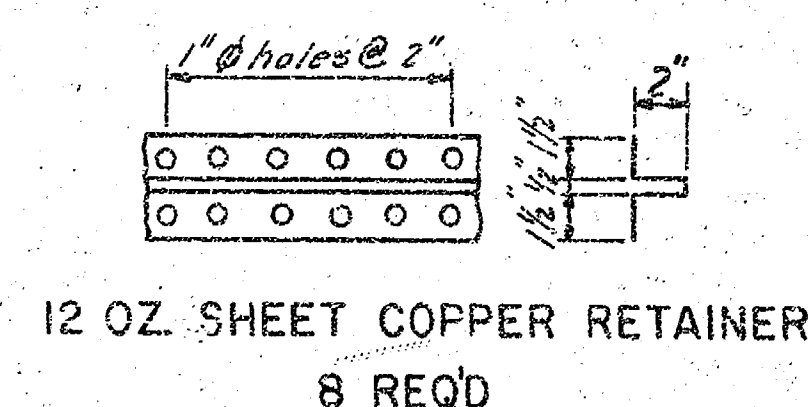
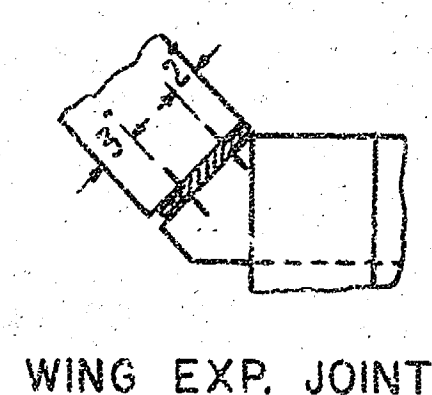
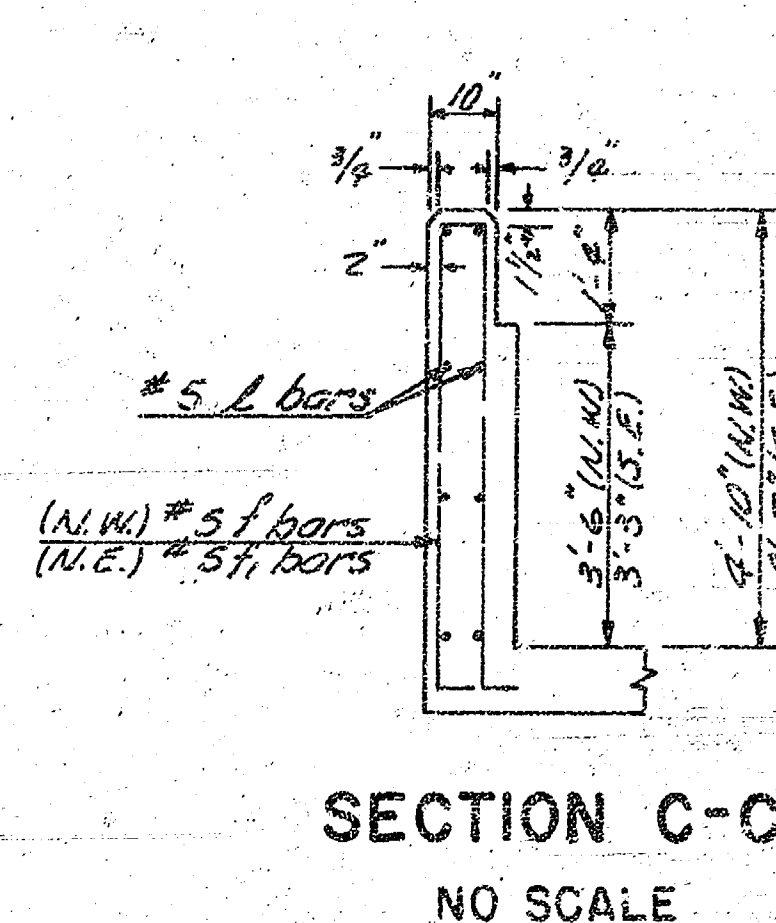
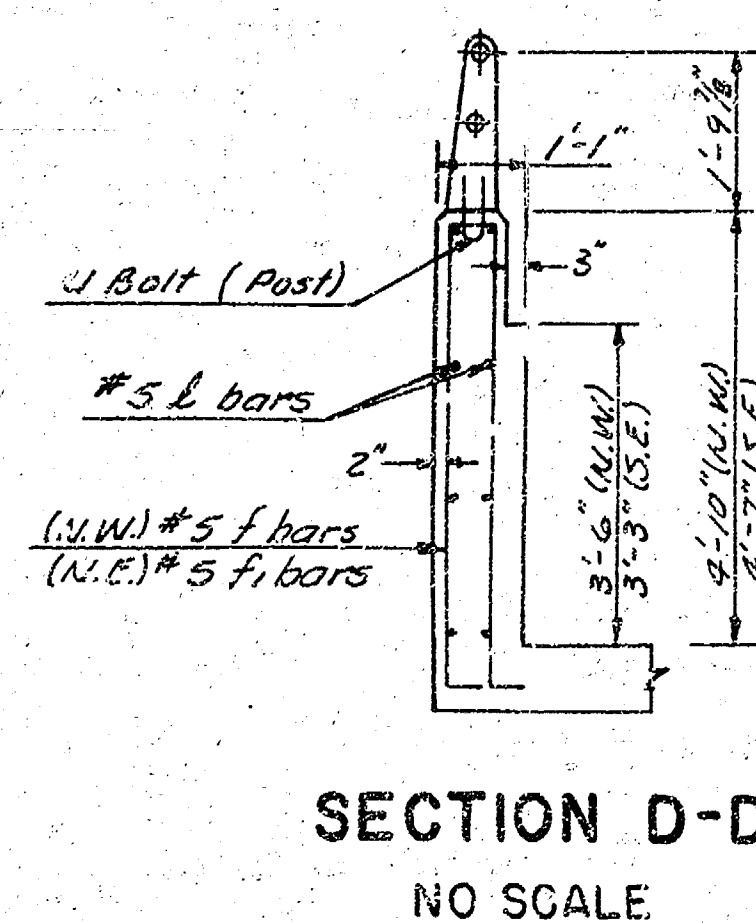
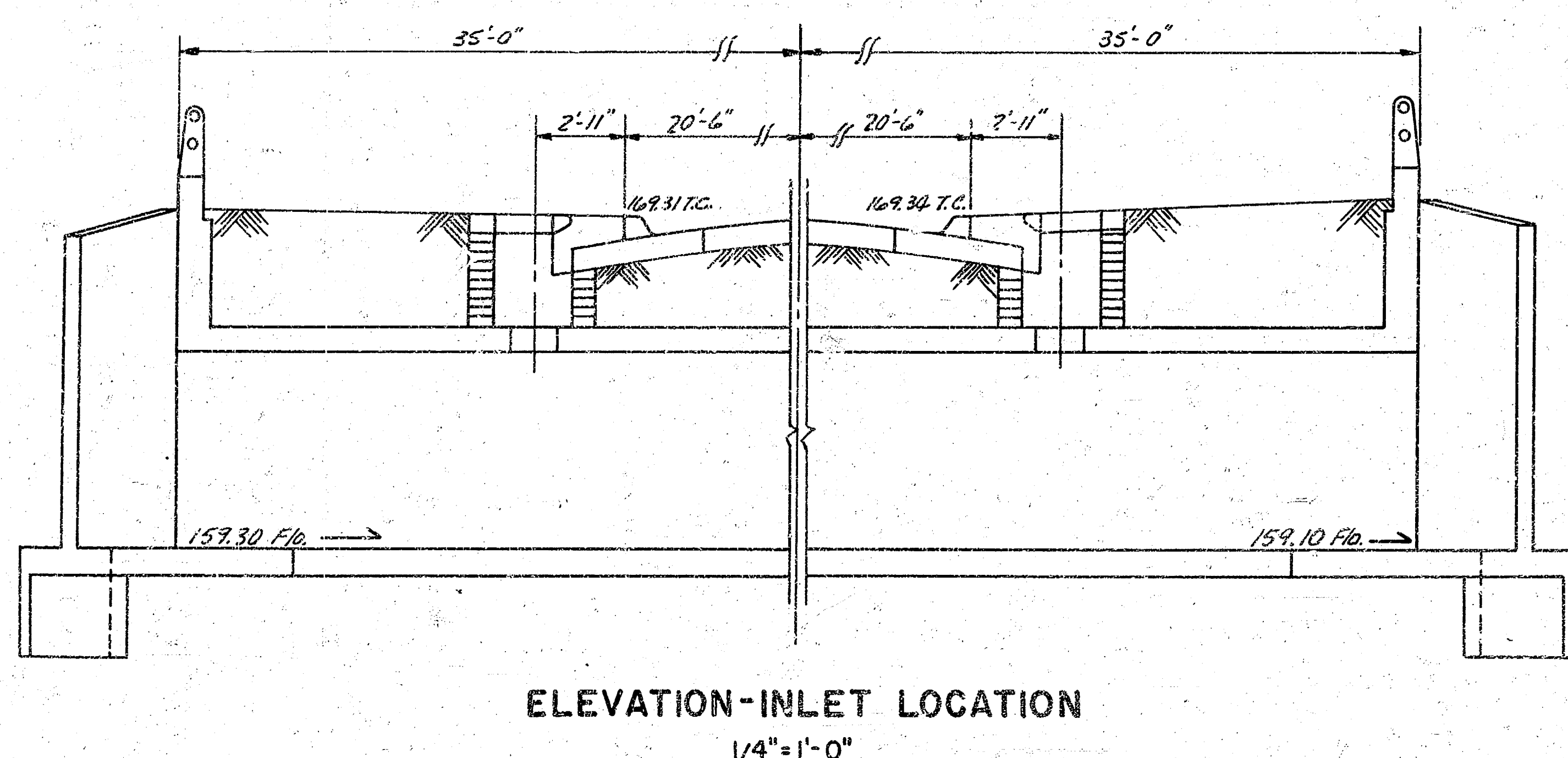
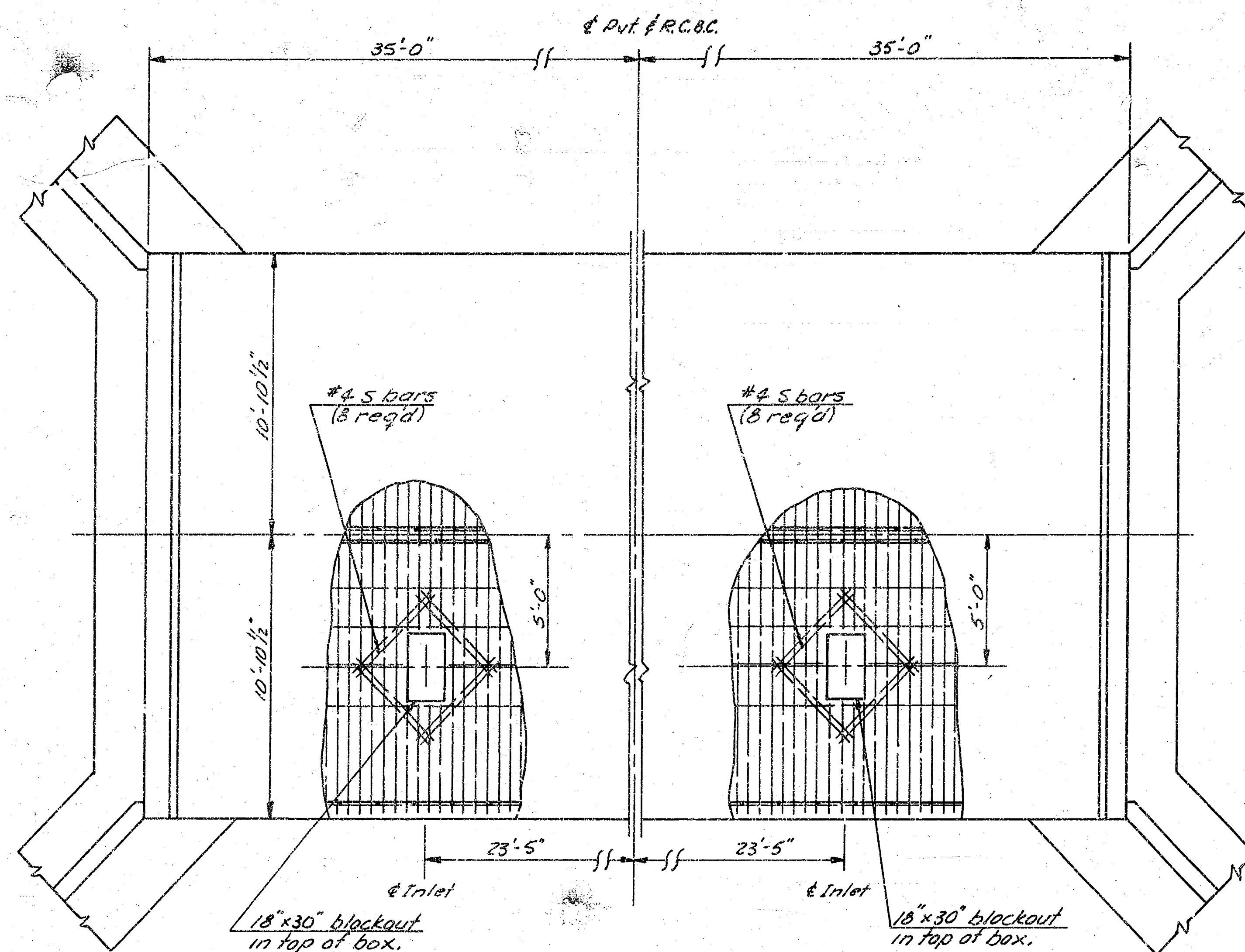
BENDING DIAGRAMS NO SCALE
All dimensions out to out of bars

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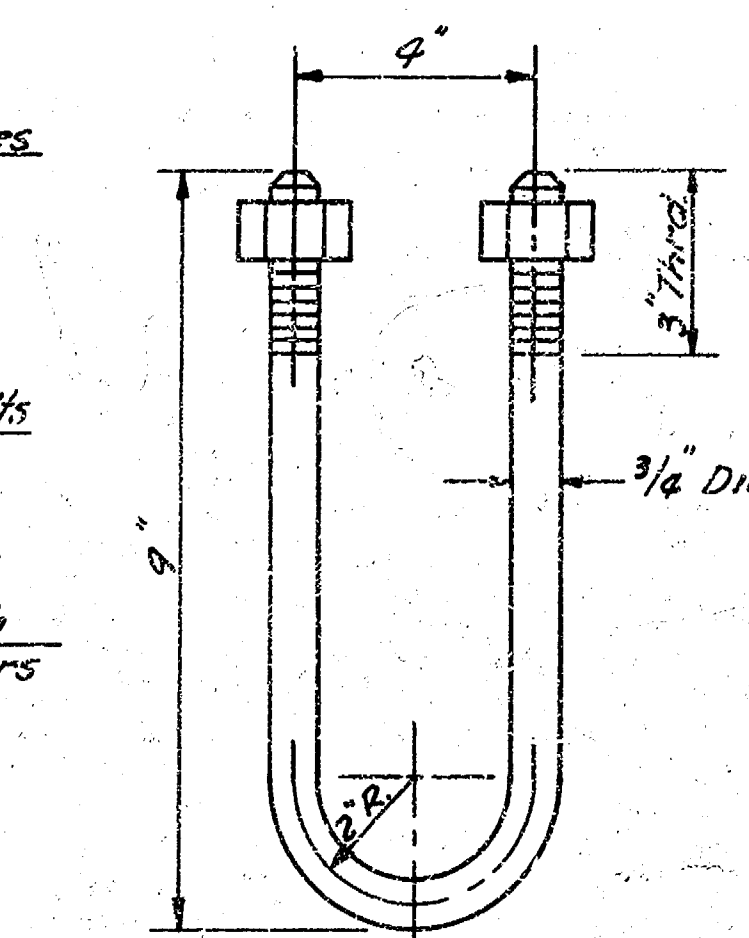
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HEDGE CLIFF ADDn

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* Holes: 1/16" square holes in post under head and 1/16" round holes under nuts for 3/8" x 5 1/2" carriage bolts with hex nuts.



NOTE: Aluminum Handrail
Aluminum posts shall be Reynolds Aluminum Highway Products Bridge Railing System, No. 2R19A or equal.
Top & bottom rails shall be 3 1/2" O.D. x 3/16" wall tube of 6063-T6 Aluminum.
Aluminum shims between concrete and post base may be used. The space below posts shall be thoroughly caulked with Aluminastic compound or other approved material.

BILL OF MATERIALS		
ITEMS	QUANTITY	UNIT
Class A-AE Concrete	170.1	C.Y.
Reinforcing Steel	24,902.5	Lbs.
Hand Excavation	21.2	C.Y.
Aluminum Handrail	43.5	L.F.
Class A Concrete - Seal Course	14.1	C.Y.
Excavation	262.9	C.Y.
Compacted Fill	148.9	C.Y.
Riprap - Type 3	400.0	S.Y.

BAR SCHEDULE				
BAR	SIZE	LENGTH	NO.	WEIGHT
A	#6	22'-6"	154	5208.03
A1	#6	22'-0"	152	5022.69
A2	#6	18'-9"	154	3411.79
B	#4	36'-0"	134	3210.53
C	#5	34'-0"	4	100.13
C1	#5	32'-0"	20	667.52
D	#5	7'-0"	36	262.88
D1	#5	8'-3"	116	998.15
E	#4	20'-2"	4	53.89
E1	#4	28'-9"	8	153.64
F	#5	11'-8"	22	267.78
F1	#5	11'-2"	22	256.31
H	#5	29'-0"	8	241.98
H1	#5	5'-8"	8	23.66
H2	#5	11'-8"	4	48.69
H3	#5	16'-8"	4	61.55
H4	#5	21'-8"	4	90.81
H5	#5	30'-0"	24	750.96
H6	#4	4'-9"	4	12.69
H7	#4	13'-0"	4	34.74
H8	#4	21'-6"	4	57.45
H9	#4	21'-8"	16	231.61
L	#5	21'-6"	16	358.79
S	#4	2'-6"	16	48.10
V	#4	7'-3"	181	905.64
V1	#5	5'-2 1/4"	116	630.77
V2	#5	6'-3 1/4"	48	315.90
V3	#5	4'-6"	12	54.79
V4	#5	5'-6"	24	133.42
V5	#5	6'-4"	20	132.04
V6	#5	7'-4"	24	183.48
V7	#5	8'-4"	12	104.26
V8	#5	9'-4"	16	155.70
V9	#5	9'-9"	8	81.35
V10	#4	3'-0"	80	160.32
V11	#4	5'-1"	20	67.87
V12	#4	6'-7"	24	105.24
V13	#4	8'-1"	20	107.95
V14	#4	9'-7"	16	122.39
W	#4	3'-6"	4	4.35
W1	#4	4'-6"	4	12.02

GENERAL NOTES

- CLASS A-AE - CONCRETE SHALL BE USED THROUGHOUT ON THE STRUCTURE. THE REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPECIFICATIONS.
- EARTHWORK - ALL EARTHWORK SHALL BE CONSIDERED AS "COMMON EXCAVATION" EXCEPT FOR THE TOWHALL. TOWHALL EXCAVATION SHALL BE INCLUDED IN "LUMP SUM BID".
- BACKFILL - ALL BACKFILL AND EXCAVATION TO EXTEND TO (2') BEYOND SIDES OF BOX AND WING-WALLS.
- SEAL - ALL EXPOSED EDGES OF CONCRETE WITH 3/4" TRIANGULAR MOLDING.
- WEEDHOLES - COURSE AGGREGATE SHALL BE DEPOSITED BEHIND EACH WEEDHOLE TO OCCUPY A SPACE EXTENDING (15") IN ALL DIRECTIONS ABOVE WEEDHOLE FLOW LINE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED A PART OF THE EXCAVATION WORK.
- SEAL COURSE - A SEAL COURSE CONSISTING OF 3" CLASS "A" CONCRETE SHALL BE CONSTRUCTED ONLY WHERE SPECIFIED ON THE PLANS OR BY THE ENGINEER. NO REINFORCING SHALL BE PLACED UNTIL THE SEAL COURSE HAS GAINED SUFFICIENT STRENGTH TO PERMIT WORKING UPON IT WITHOUT DAMAGE.
- BIDDING OF CULVERT - THE CULVERT SHALL BE BID AS A "LUMP SUM BID" WHICH SHALL INCLUDE THE FOLLOWING ITEMS: CLASS A-AE CONCRETE, REINFORCING STEEL, HAND EXCAVATION, AND ALUMINUM HAND RAIL. ALL OTHER ITEMS SHALL BE INCLUDED AS BID ITEMS.
- THE QUANTITIES SHOWN IN THE "BILL OF MATERIALS OR ITEMS" WHICH ARE INCLUDED IN THE "LUMP SUM BID" OF THE CULVERT ARE FOR "INFORMATION PURPOSES ONLY". THE CONTRACTOR MUST SATISFY HIMSELF AS TO THE "QUANTITIES" AND THE ENGINEER ASSUMES NO RESPONSIBILITIES FOR THEIR ACCURACY. THE CONTRACTOR WILL HAVE THE FULL RESPONSIBILITY FOR PROVIDING ALL MATERIALS ON THE DETAILED PLANS NECESSARY TO COMPLETE THE PROJECT.

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HEDGECLIFF ADDN

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