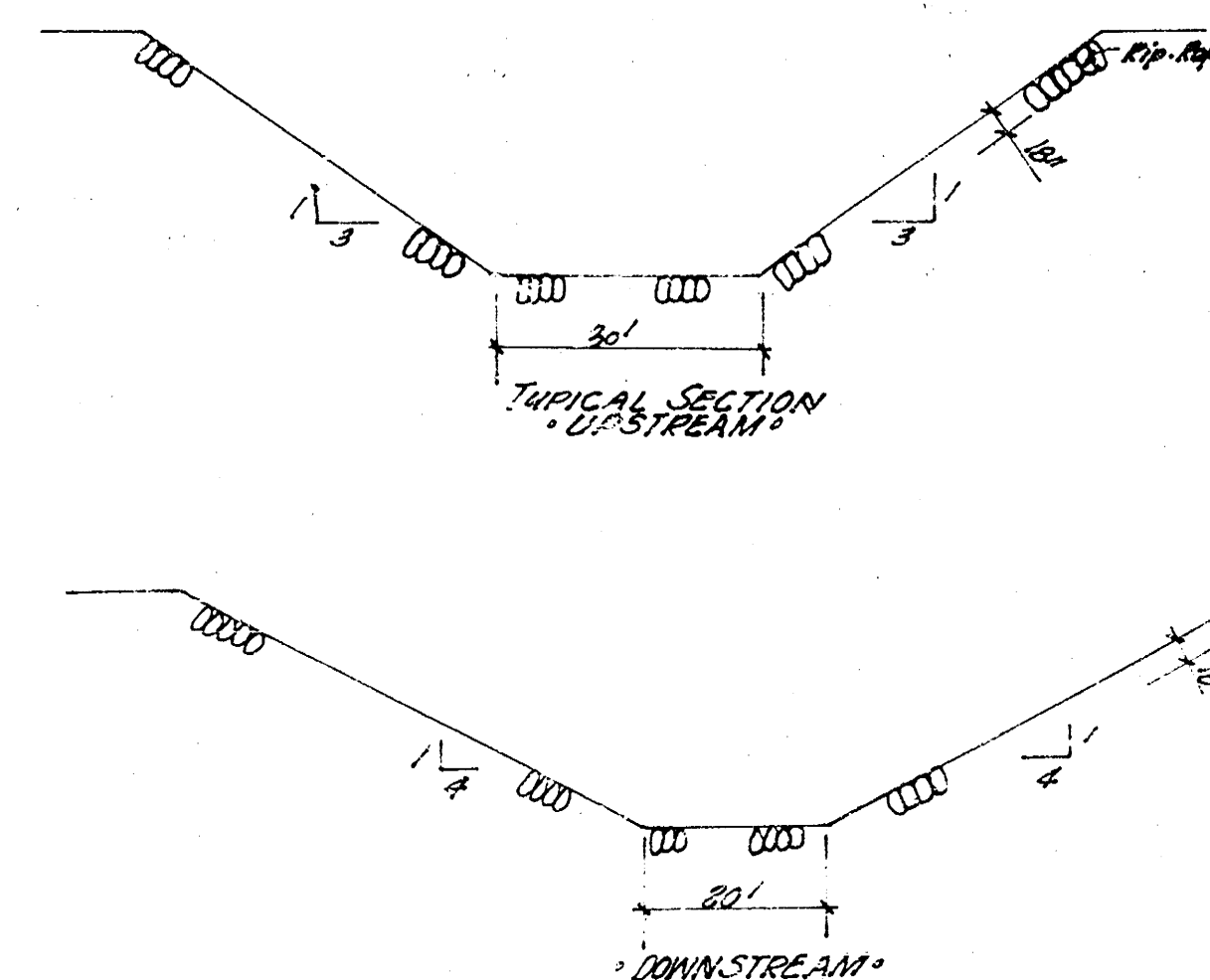
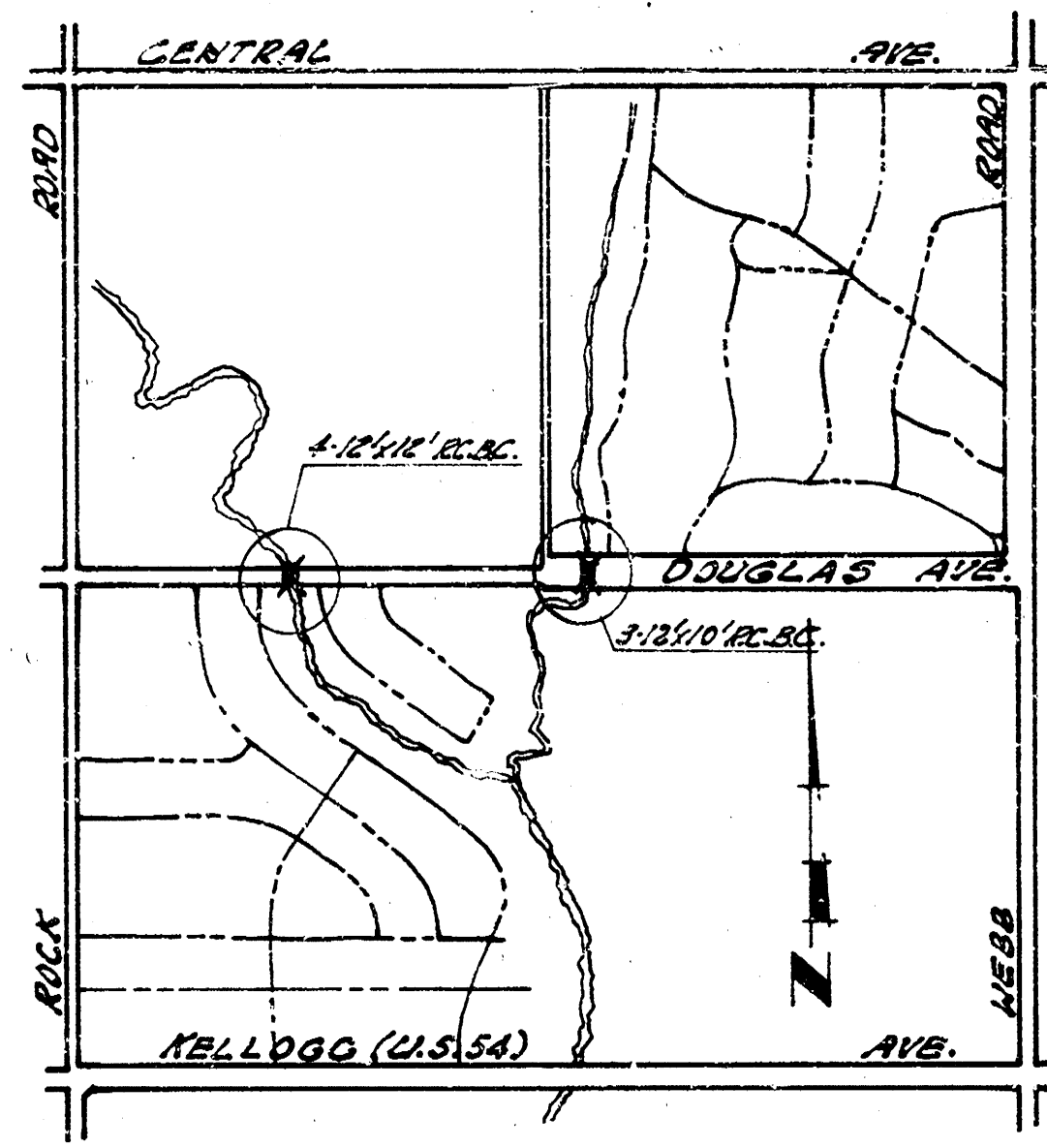
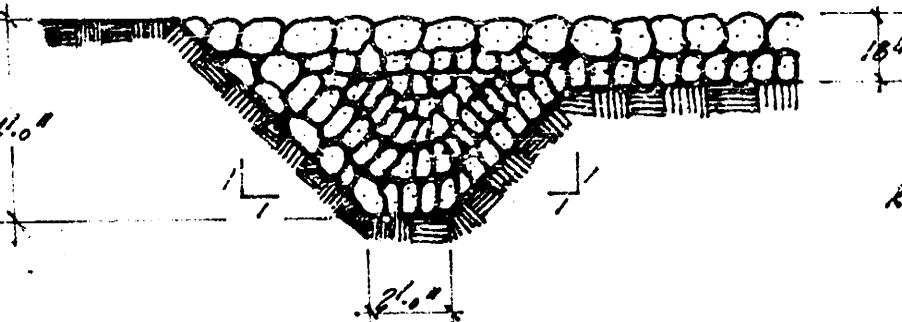


Plan - See

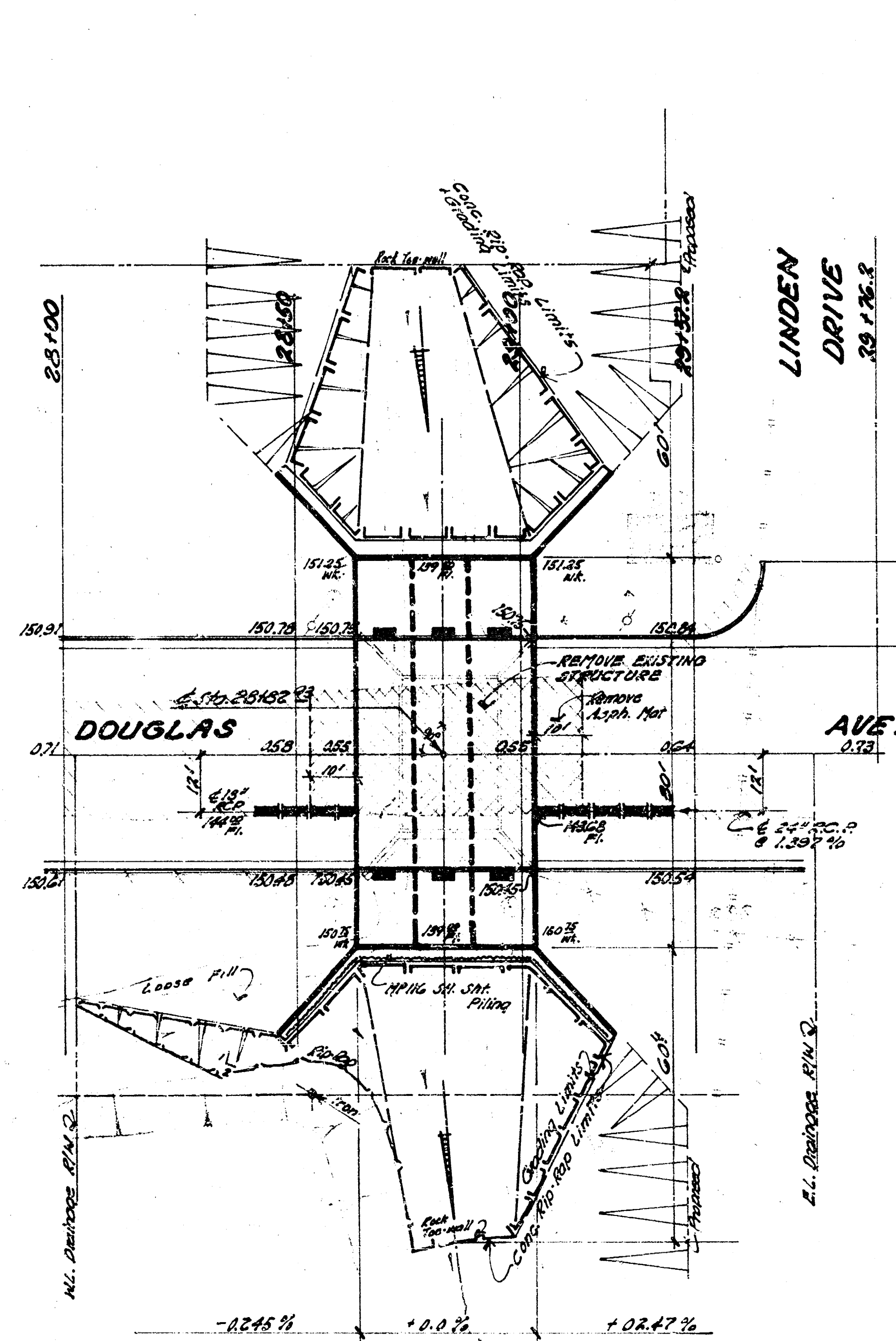


5:1 Conc. Rip-Rap in downstream area to be determined by the amount of material furnished by "OTHERS".

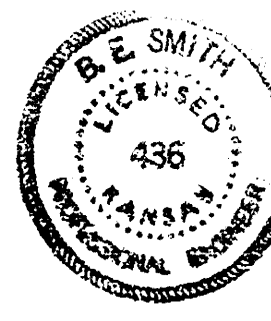


"DETAIL OF ROCK TOE WALL"

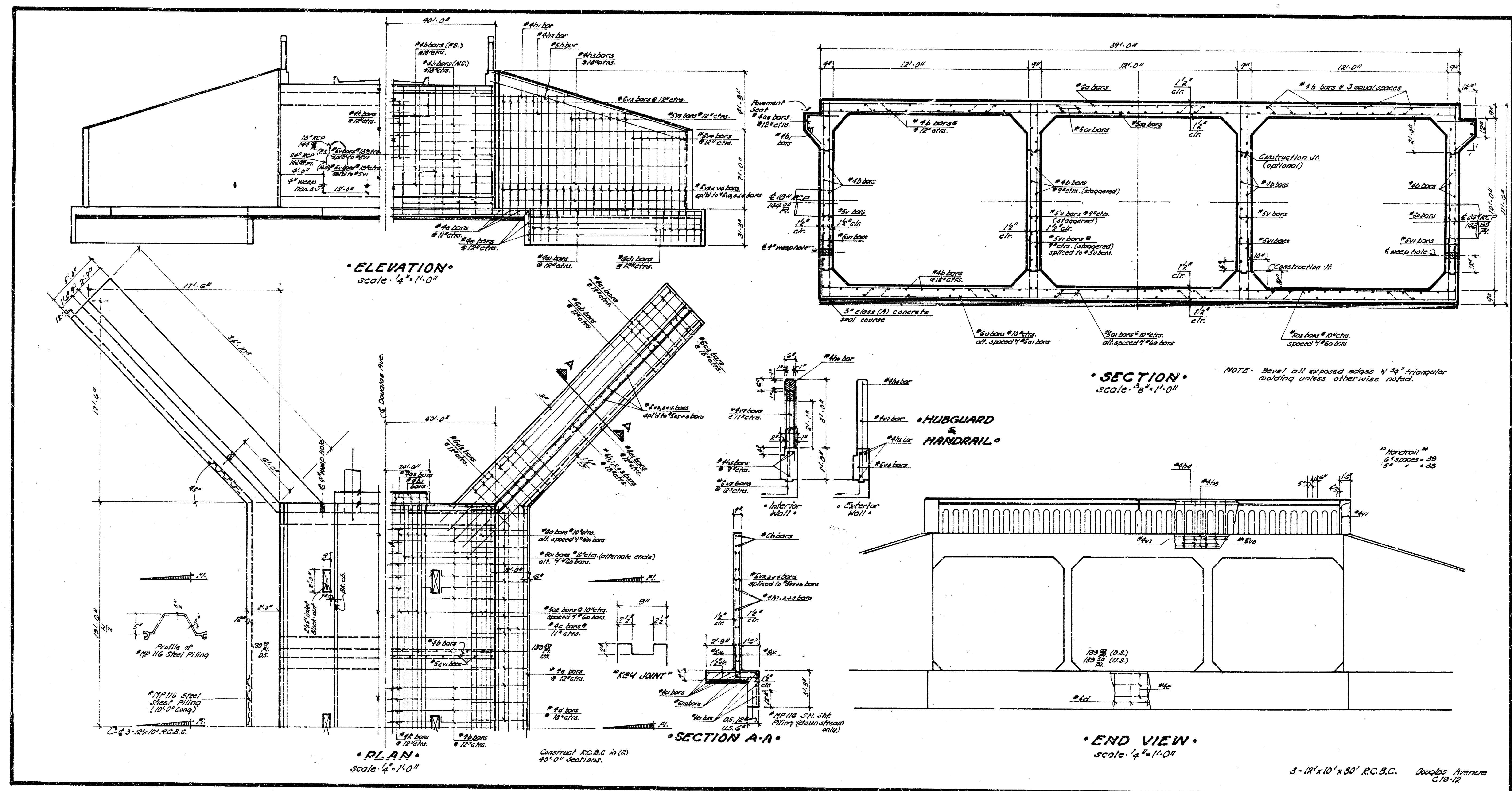
Rip-Rap - To be of broken concrete with max. size stone of 30 pounds; avg. size 30 to 50 pounds; not more than 10% of material composed of pieces which are less than 10 pounds. Neither depth nor the thickness of any piece shall be less than 1/8 its length.

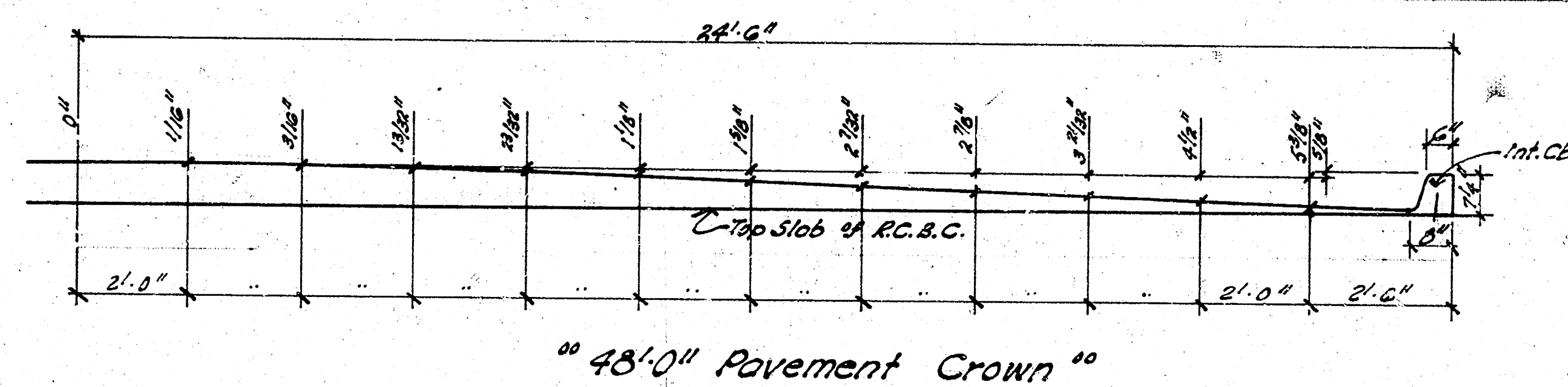


NOTE TO CONTRACTOR & ENGINEER: This Project to be cross-sectioned before and after to determine final quantities for earthwork. Having Contractor to fill area below c.s. & subgrade across R.C.B.C.



3-12x10' R.C.B.C. in Connection With
 City of Wichita, Kansas
 B.E. Smith City Engineer
 Date: Sept. 1969 Project No. C19-12



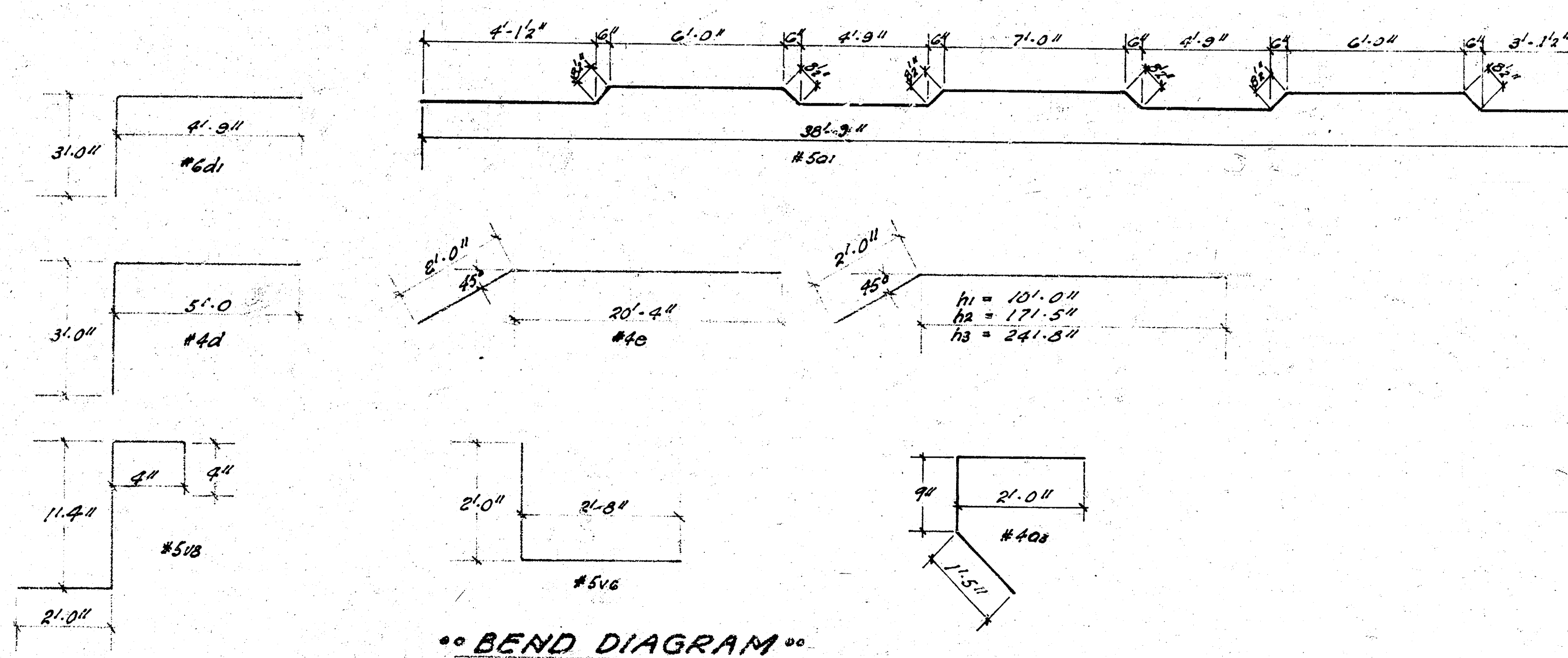
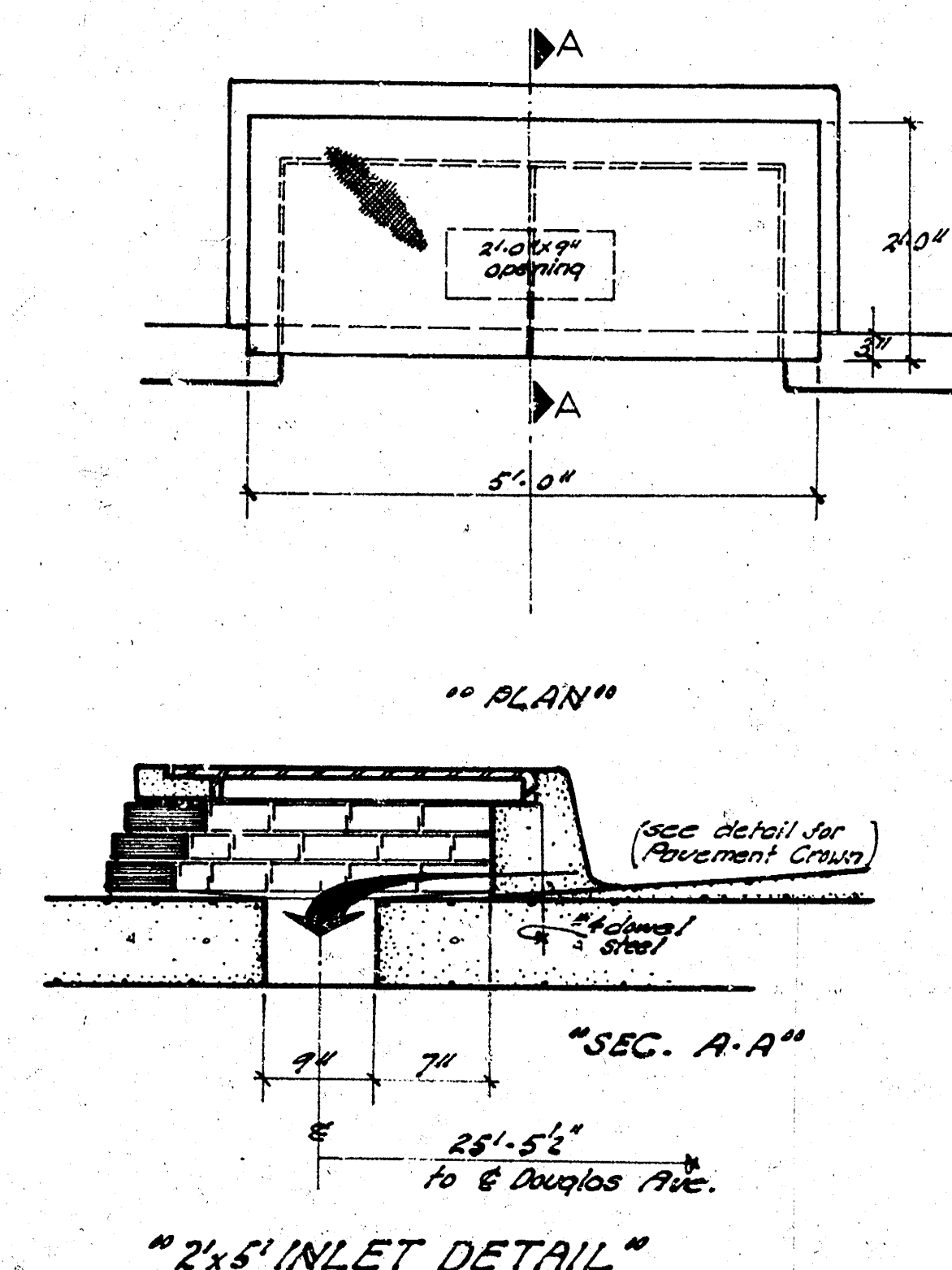


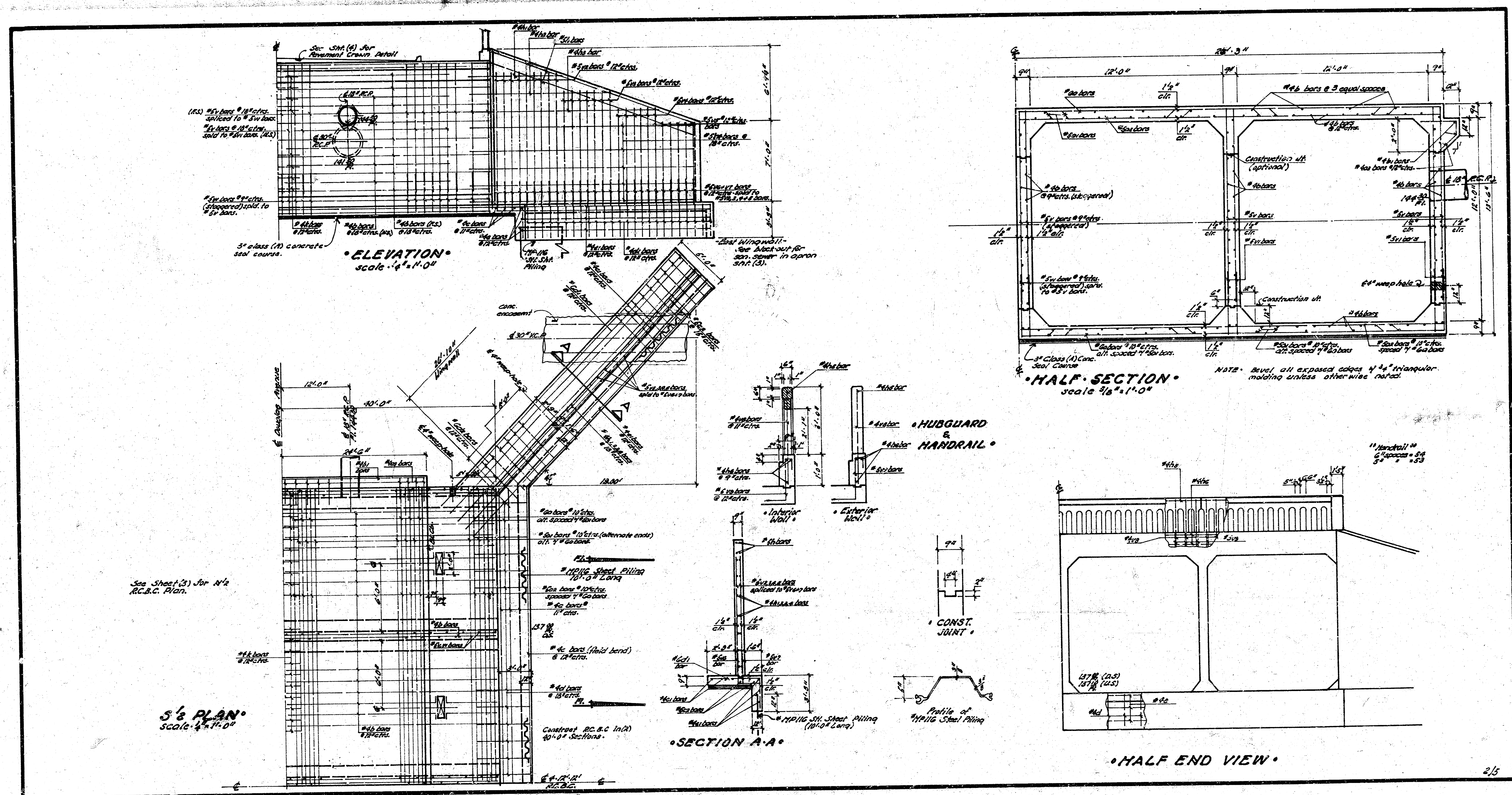
BAR SCHEDULE							
Lot	Size	Length	No.	Location	Shape	Secans	Acres
3	R	34'-9"	193	box	—	10"	1117.94
4	R	30'-0"	178	"	—	10"	796.86
5	R	38'-9"	176	"	—	10"	779.76
6	R	40'-0"	180	box	—	12"	846.36
7	R	35'-9"	320	"	—	9 1/2"	1017.44
8	R	25'-2"	8	box	—	11"	134.43
9	R	35'-9"	6	ocean	—	9"	155.31
10	R	20'-0"	16	Winnell	—	14"	315.30
11	R	20'-0"	5	"	—	12"	334.67
12	R	8'-0"	56	ocean	—	9"	271.69
13	R	71'-0"	98	Winnell	—	18"	1070.83
14	R	71'-0"	12	"	—	12"	85.61
15	R	24'-7 1/2"	12	Winnell	—	14"	179.12
16	R	24'-7 1/2"	12	Winnell	—	14"	179.12
17	R	27'-0"	16	"	—	12"	353.50
18	R	12'-0"	8	"	—	12"	66.18
19	R	14'-5"	8	"	—	12"	128.36
20	R	26'-0"	40	"	—	10"	712.53
21	R	28'-5"	4	hampden	—	9"	57.44
22	R	28'-5"	4	hampden	—	9"	57.44
23	R	31'-0"	104	box	—	12"	249.50
24	R	9'-6"	424	"	—	9"	4021.80
25	R	31'-0"	424	"	—	9"	1421.68
26	R	31'-0"	72	Winnell	—	12"	336.13
27	R	31'-2"	72	"	—	12"	342.14
28	R	6'-0"	64	"	—	12"	64.52
29	R	5'-0"	200	"	—	12"	514.82
30	R	5'-0"	300	"	—	12"	288.49
31	R	5'-0"	56	hampden	—	11"	282.97
32	R	5'-0"	72	hampden	—	12"	326.85

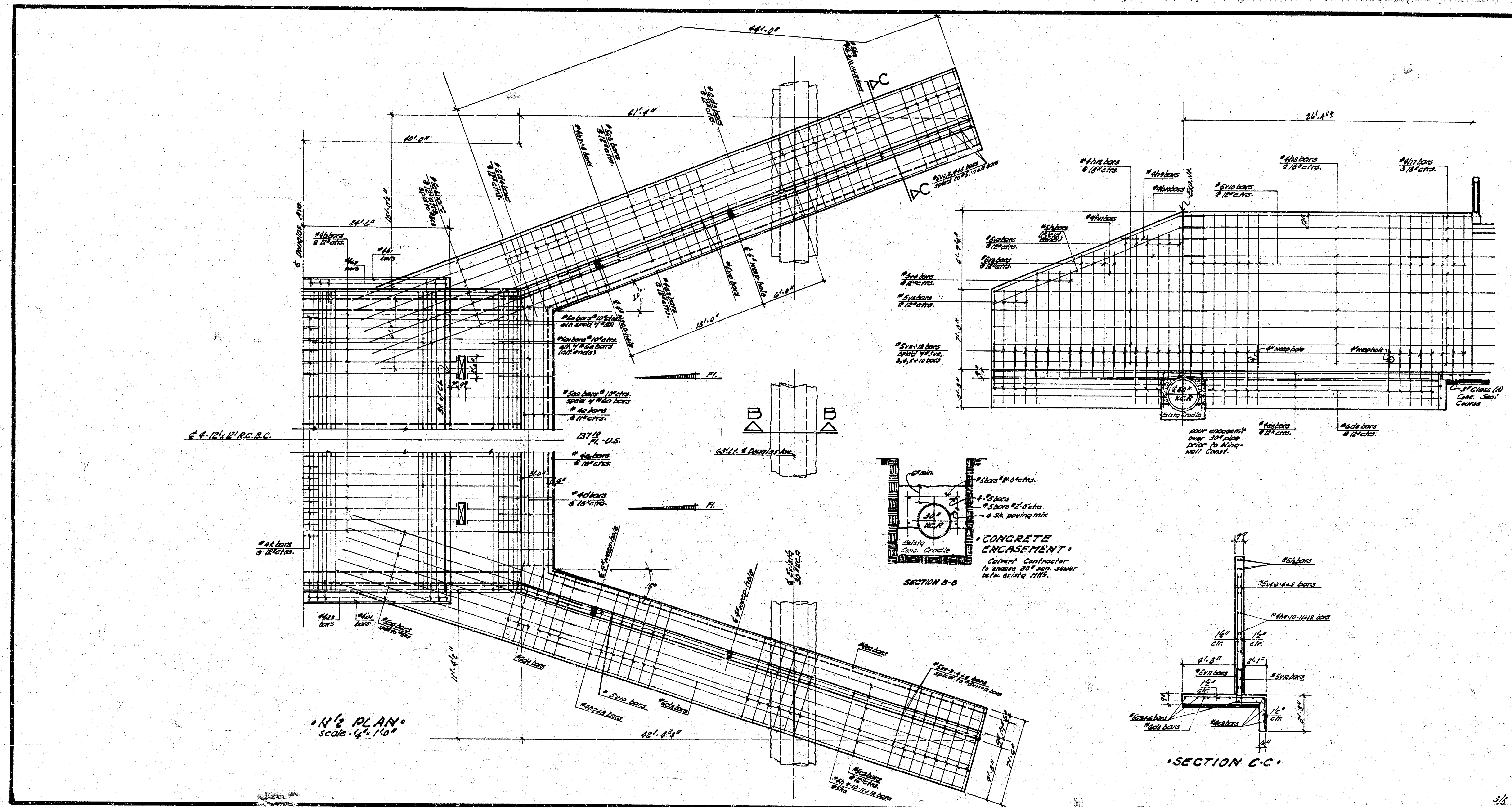
BILL OF MATERIALS	QTY	UNIT	
CLASS 9.45 CONCRETE	446.8	CU.METER	6.5
REINFORCING STEEL	11.65	T.M	6.5
CONCRETE REINFORCING	78.0	SQ.FT	6.5
ROD EXCAVATION	84.0	SQ.FT	6.5
MPING STEEL SHEET PILING	78.0	6.5	6.5
INF CURB	14.4	CU.CM	6.5
18" S. CONCRETE	5	S	6.5
18" RCP	5	S	6.5
18" "	5	S	6.5
CONC. RIP-ROD	180	6.5	6.5
ROUGH 100' REM.	100	6.5	6.5
EXIST. STRUCTURE REM.	100	6.5	6.5
CLEARING 100'		6.5	6.5
CONCRETE EXCAVATION	1100	CU.CM	6.5
COMPACTED FILL	100	CU.CM	6.5
LOOSE FILL	270	CU.CM	6.5

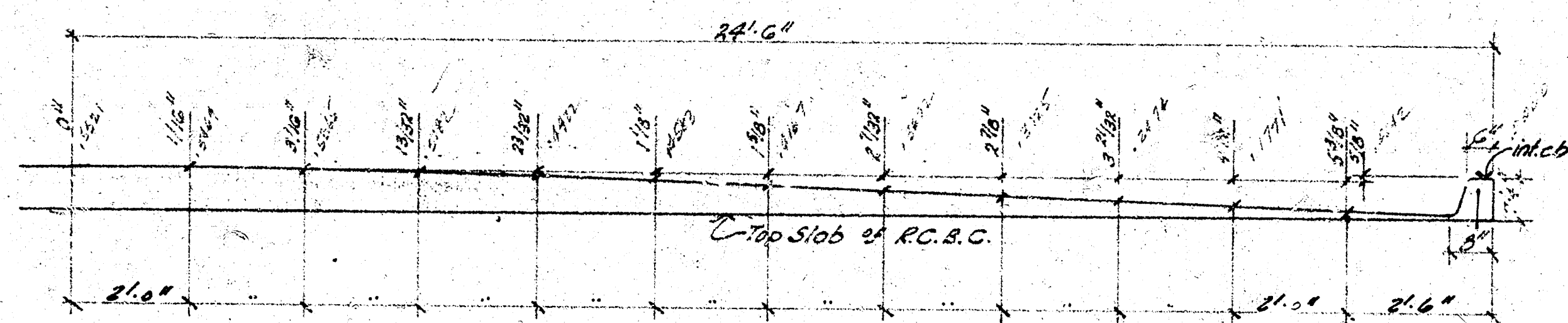
Lump Sum Bid = 2.5

1200' 30" = 6.1

[illegible]







BAR SCHEDULE							
Bar	Size	Length	No.	Location	Shape	Spacing	Weight
a	#5	26'-0"	364	box	—	12"	16,975.91
b	#5	26'-10"	380	"	—	10"	10,636.11
c1	#5	26'-0"	364	"	—	10"	10,613.31
c2	#5	35'-3"	476	box	—	18"	27,91.94
d1	#5	25'-2"	8	box	—	9"	1,664.69
e	#5	26'-0"	12	garage	—	11"	200.66
f	#5	31'-5"	4	windwall	—	24"	1,677.89
g1	#5	31'-5"	4	garage	—	18"	1,801.75
g2	#5	2'-3"	78	"	—	12"	1,267.33
h1	#5	7'-3"	50	windwall	—	24"	2,000.03
h2	#5	4'-3"	6	"	—	12"	66.81
i1	#5	10'-3"	84	"	—	18"	2,188.88
i2	#5	7'-3"	6	"	—	12"	65.34
j1	#5	28'-3"	6	garage	—	12"	1,833.87
j2	#5	28'-3"	6	windwall	—	12"	1,833.87
k1	#5	40'-0"	6	"	—	18"	1,600.32
k2	#5	58'-4"	4	"	—	—	1,575.88
l1	#5	11'-0"	4	"	—	—	24.59
l2	#5	17'-0"	4	"	—	—	65.48
m1	#5	63'-0"	4	"	—	—	66.12
m2	#5	20'-0"	8	"	—	18"	206.16
n1	#5	12'-10"	8	handrail	—	12"	205.78
n2	#5	12'-10"	84	handguard	—	9"	819.74
o1	#5	28'-0"	40	windwall	—	18"	5,861.52
o2	#5	7'-0"	40	"	—	18"	5,861.52
p1	#5	11'-5"	4	"	—	—	30.73
p2	#5	15'-5"	4	"	—	—	40.97
q1	#5	19'-4"	80	"	—	18"	5,058.89
r	#5	3'-0"	124	bar	—	12"	368.24
s	#5	11'-5"	640	"	—	9"	7,700.47
t1	#5	20'-0"	80	"	—	18"	2,060.30
t2	#5	11'-0"	80	wind wall	—	18"	2,060.30
u1	#5	4'-0"	80	"	—	18"	2,060.30
u2	#5	2'-0"	80	"	—	18"	2,060.30
v1	#5	3'-0"	116	hand rail	—	12"	5,123.55
v2	#5	3'-0"	116	hand guard	—	12"	5,123.55
w1	#5	18'-0"	108	wind wall	—	12"	1,600.32
w2	#5	18'-0"	108	"	—	12"	1,600.32

BILL OF MATERIALS			QUAN	UNIT
ITEM				
class A.R.C concrete			559.0	CU.YD.
reinforcing steel			76,288.66	LBS.
concrete formwork			185.6	S.F.
hand excavation			14.80	CU.YD.
HPing 10" Short Piling			1020.0	S.F.
cast in place fill	est		23,540.0	CU.YD.
common excavation	est		77,840.0	CU.YD.
class A Concrete			6,103	CU.YD.
24" inlets			8	EA.
16" R.C.P.			6	LF.
36" "			5	LF.
asph. mat. rem.			278.44	SQ.
existing structure rem.			-	EO.
clearing of R/W			-	Linear Feet
6 inch concrete (non-satur encasement)			46.0	CU.YD.
5" R.C. core			106.0	CU.YD.
10" curb			106.0	CU.YD.
loose fill			36,000.0	CU.YD.
Manhole Adjustments	est		2	NO.

00 GENERAL NOTES 00

CLASS A-AB CONCRETE Shall be used throughout this Project. All Reinforcing Steel Shall conform to A.S.T.M. Specifications.

*EARTHWORK: all earthwork shall be considered as "Common Excavation" except for the firewall. Firewall Excavation shall be included in "Cump Sum Bid".

excavation to extend to (?) beyond sides of bar. Winqwalls. Cause fill of barks to be in Lump Sum Bid.

SEAL COURSE: a seal course consisting of (3) Class (A) Concrete shall be constructed

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 injury.

• **BIDDING OF CULVERT:** The Culvert shall be bid as a "Lump Sum Bid" except for the following items:

minors, Camp Hill, Common Excav., Class A conc., 24" x 16" x 12" PE, asphalt rem., eroded structural rem., glauconitic, 6.5% conc. conc. No pop. ~~conc. 10%~~ Nonhole Adulterium. Quantities shown in the "Bill of Materials" or items which are included in the "Lump Sum Bid" of the Contract are for information only. The Contractor must endorse himself in the

quantities and the Engineer assumes no responsibility for their accuracy. The Contractor will have full responsibility for providing all materials shown on the detailed plans necessary to complete this project.

YR	25'	21' 7"	84	Wingsall	12"	287.11
C3	25'	40'-0"	18	"	12"	750.96
C4	25'	22'-3"	18	"	12"	417.72
						286.65

