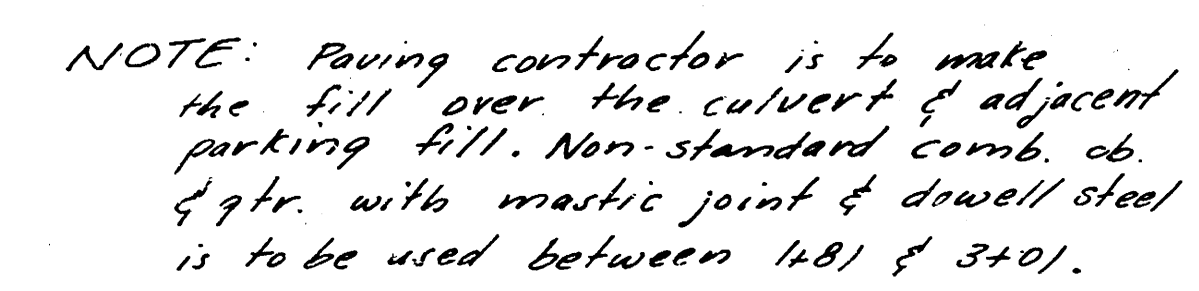
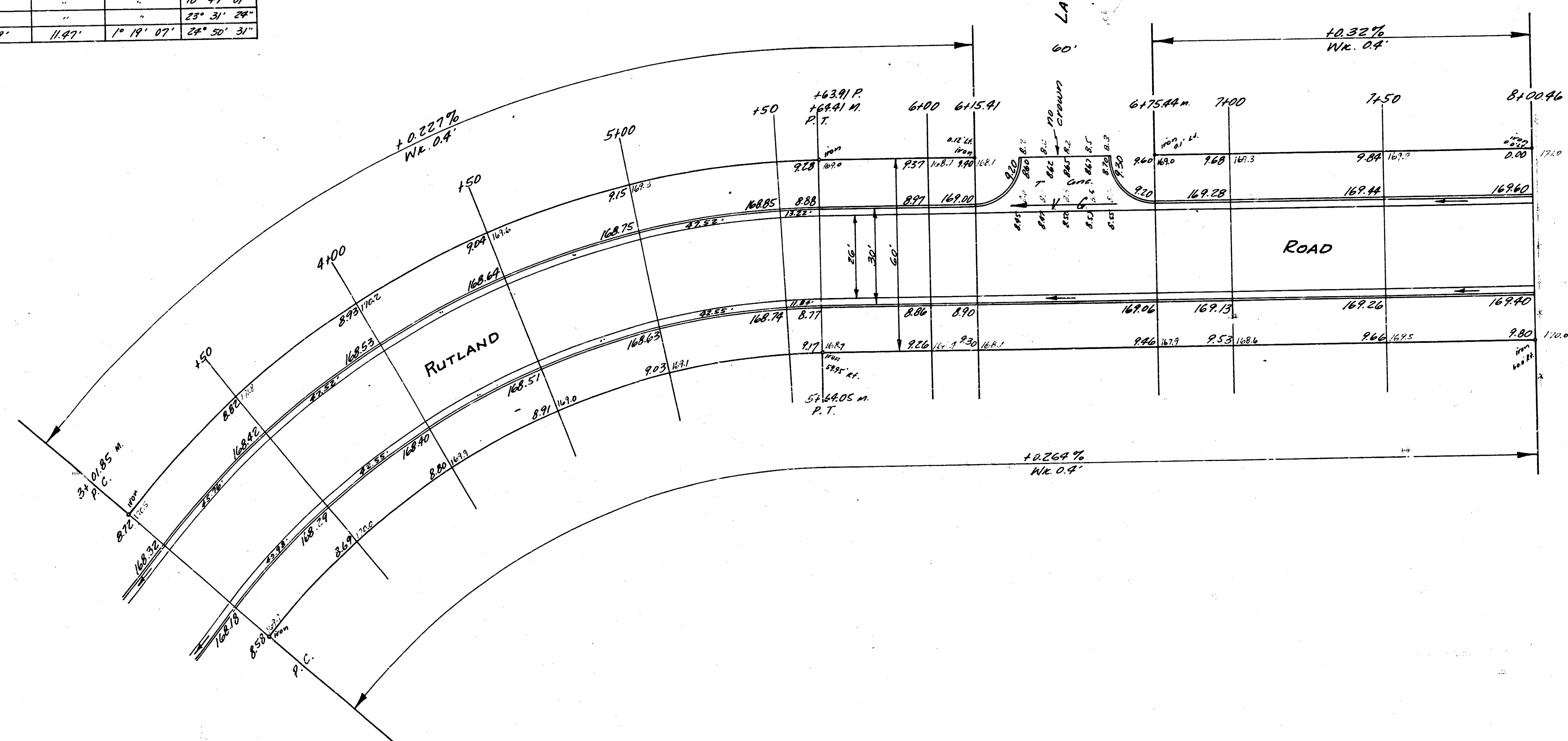
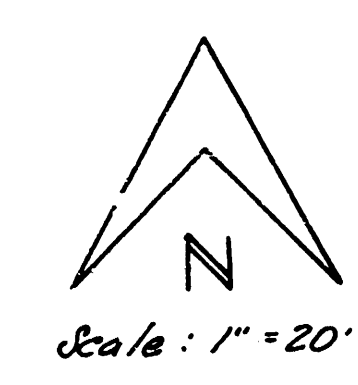


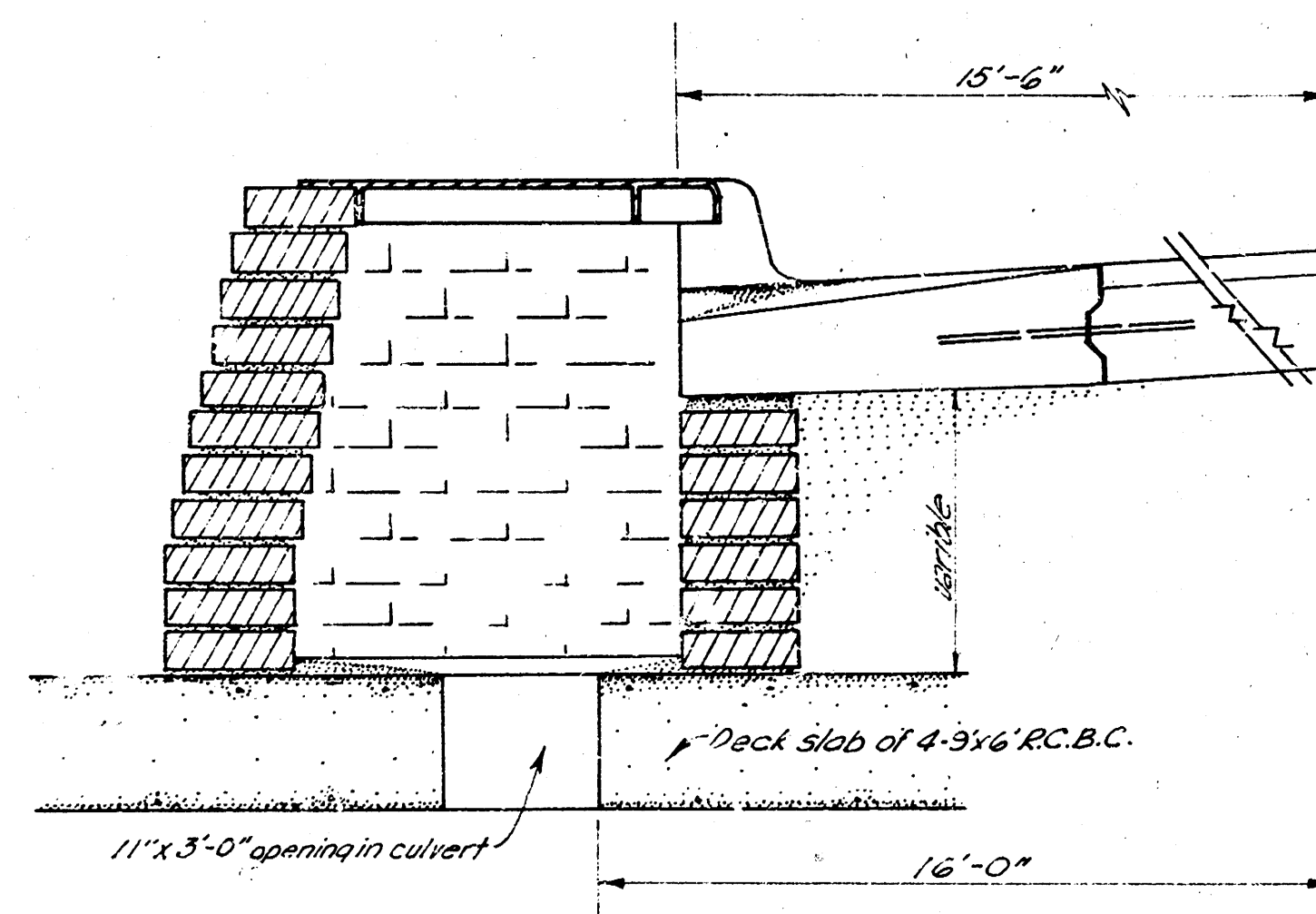
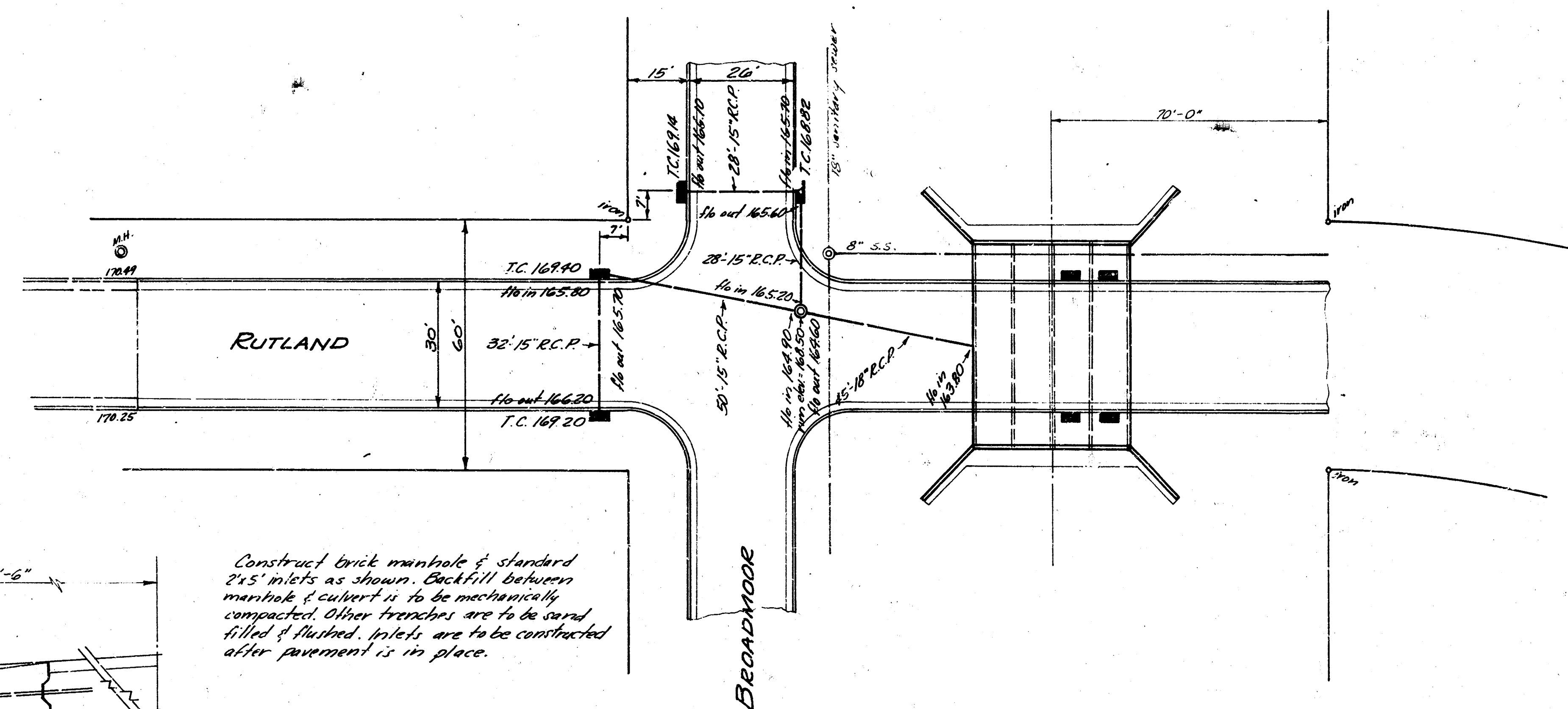
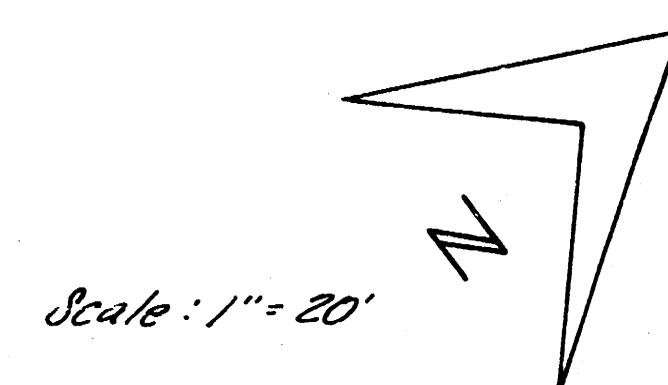
Scale: 1" = 20'

 $\frac{1}{3}$

CURVE DATA					
L = 262.06'	$\Delta = 43^\circ 41'$	Sta. 11 = 548.77	Radius = 3022.1'	N.P.L.	
Sta. on N.P.L.	Arc length	Chord length	Chord length	Deflection	Total deflection
301.85 P.C.		Sta. 11 Cb. 0.00 S. Cb.			
150	48.15'	46.99'	39.66'	4° 33' 52"	4° 33' 52"
400	50.0'	48.79'	41.18'	4° 48' 23"	9° 18' 15"
150	"	"	"	"	18° 08' 38"
5400	"	"	"	"	18° 47' 01"
150	"	"	"	"	23° 31' 24"
5163.91 P.T.	13.91'	13.57'	11.47'	1° 19' 07"	24° 50' 31"

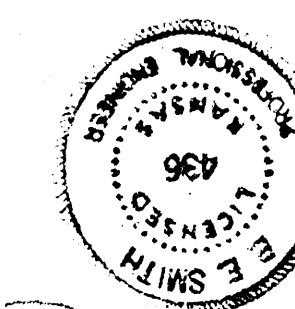


B.M. 171.33 'x' cut on N. rim M.H. ring N.S. Rutland
 @ E.L. Woodlawn Village 2nd Addn.



Catchbasin Detail Over 4'-9"x6' R.C.B.C.

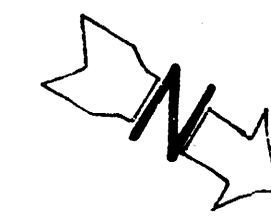
Construct brick manhole of standard
 24\"/>



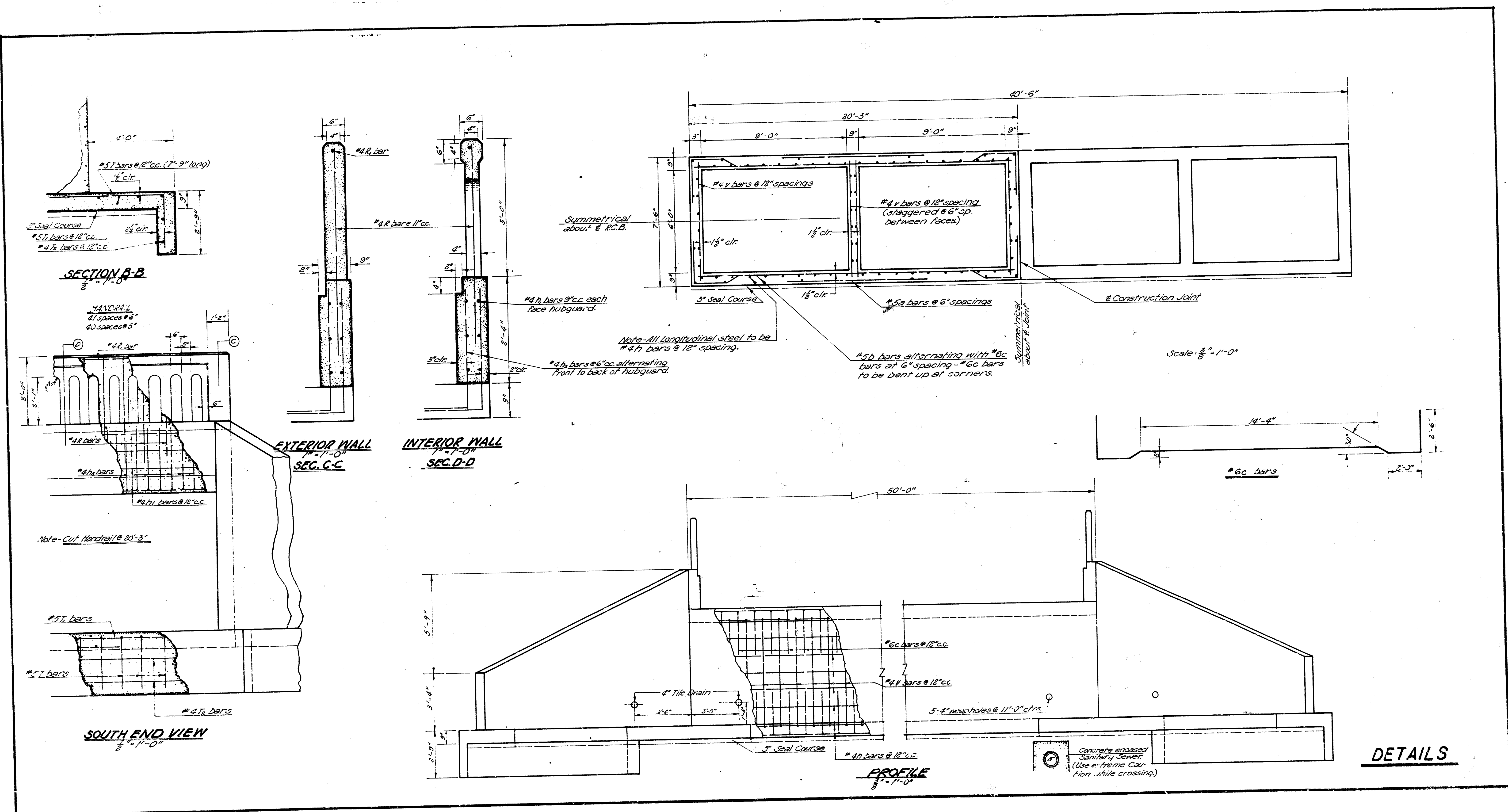
INCIDENTAL DRAINAGE
 RUTLAND ROAD
 E.L. 2nd ADDN TO WOODLAWN VILLAGE TO
 E.L. LOT 1, BLD. D, 3rd ADDN TO WOODLAWN VILLAGE
 4'-9\"/>

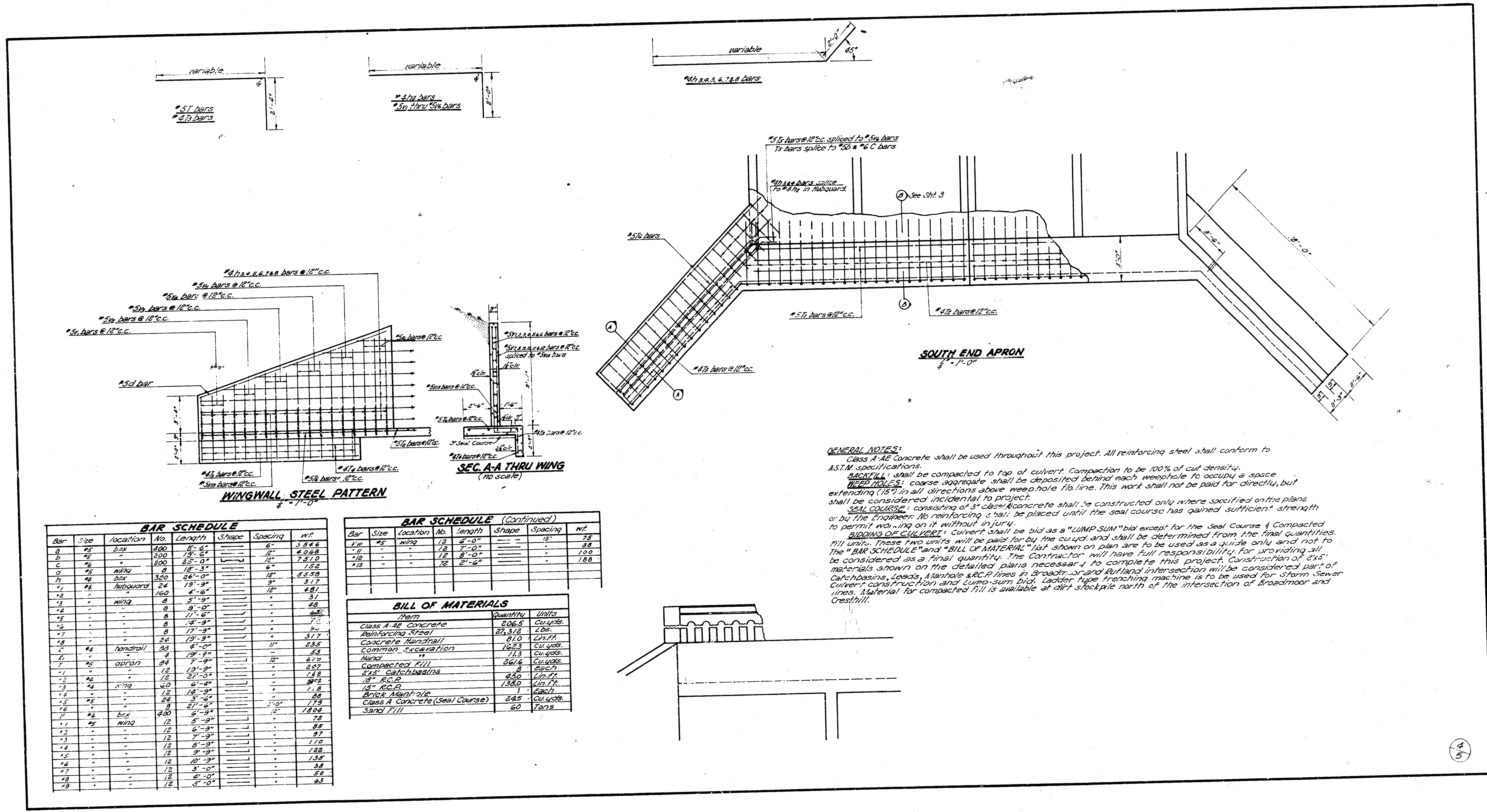
CITY OF WICHITA, KANSAS
 B.E. SMITH CITY ENGINEER
 MAY 1963, 1963 PROJ. C-12-78

1/5



4-9'x6' R.C.B.
GYPSUM CREEK & RUTLAND RD.
PLAN VIEW
ENGINEERING DEPARTMENT
CITY OF WICHITA, KANSAS
B.E. SMITH
DATE: CITY ENGINEER
PROJ. NO.





BAR SCHEDULE						
Bar	Size	Location	No.	Length	Shape	Wt.
1	#5	Box	300	8'-6"		3.544
2	#5		300	13'-0"		4.699
3	#5		300	12'-0"		4.699
4	#5	Wing	6	18'-3"		1.56
5	#5	Box	360	18'-0"		5.599
6	#5	Reinforced	24	18'-0"		3.1
7	#5		160	8'-0"		1.81
8	#5	Wing	6	9'-0"		.68
9	#5		6	11'-0"		.77
10	#5		6	12'-0"		.86
11	#5		6	13'-0"		.95
12	#5		6	14'-0"		1.04
13	#5		6	15'-0"		1.13
14	#5		6	16'-0"		1.22
15	#5	Handrail	33	8'-0"		.85
16	#5	Apron	4	19'-9"		6.79
17	#5		12	13'-9"		2.97
18	#5		12	13'-0"		2.88
19	#5	Wing	24	9'-0"		1.8
20	#5		12	14'-0"		1.8
21	#5		24	8'-0"		1.8
22	#5		6	27'-0"		1.84
23	#5	Box	300	8'-0"		.78
24	#5	Wing	12	6'-0"		.88
25	#5		12	6'-0"		.97
26	#5		12	7'-0"		1.10
27	#5		12	8'-0"		1.22
28	#5		12	9'-0"		1.35
29	#5		12	10'-0"		1.48
30	#5		12	11'-0"		1.61
31	#5		12	12'-0"		1.74
32	#5		12	13'-0"		1.87
33	#5		12	14'-0"		2.0
34	#5		12	15'-0"		2.13
35	#5		12	16'-0"		2.26
36	#5		12	17'-0"		2.39
37	#5		12	18'-0"		2.52
38	#5		12	19'-0"		2.65
39	#5		12	20'-0"		2.78
40	#5		12	21'-0"		2.91
41	#5		12	22'-0"		3.04
42	#5		12	23'-0"		3.17
43	#5		12	24'-0"		3.3
44	#5		12	25'-0"		3.43
45	#5		12	26'-0"		3.56
46	#5		12	27'-0"		3.69
47	#5		12	28'-0"		3.82
48	#5		12	29'-0"		3.95
49	#5		12	30'-0"		4.08
50	#5		12	31'-0"		4.21
51	#5		12	32'-0"		4.34
52	#5		12	33'-0"		4.47
53	#5		12	34'-0"		4.6
54	#5		12	35'-0"		4.73
55	#5		12	36'-0"		4.86
56	#5		12	37'-0"		4.99
57	#5		12	38'-0"		5.12
58	#5		12	39'-0"		5.25
59	#5		12	40'-0"		5.38
60	#5		12	41'-0"		5.51
61	#5		12	42'-0"		5.64
62	#5		12	43'-0"		5.77
63	#5		12	44'-0"		5.9
64	#5		12	45'-0"		6.03
65	#5		12	46'-0"		6.16
66	#5		12	47'-0"		6.29
67	#5		12	48'-0"		6.42
68	#5		12	49'-0"		6.55
69	#5		12	50'-0"		6.68
70	#5		12	51'-0"		6.81
71	#5		12	52'-0"		6.94
72	#5		12	53'-0"		7.07
73	#5		12	54'-0"		7.2
74	#5		12	55'-0"		7.33
75	#5		12	56'-0"		7.46
76	#5		12	57'-0"		7.59
77	#5		12	58'-0"		7.72
78	#5		12	59'-0"		7.85
79	#5		12	60'-0"		7.98
80	#5		12	61'-0"		8.11
81	#5		12	62'-0"		8.24
82	#5		12	63'-0"		8.37
83	#5		12	64'-0"		8.5
84	#5		12	65'-0"		8.63
85	#5		12	66'-0"		8.76
86	#5		12	67'-0"		8.89
87	#5		12	68'-0"		9.02
88	#5		12	69'-0"		9.15
89	#5		12	70'-0"		9.28
90	#5		12	71'-0"		9.41
91	#5		12	72'-0"		9.54
92	#5		12	73'-0"		9.67
93	#5		12	74'-0"		9.8
94	#5		12	75'-0"		9.93
95	#5		12	76'-0"		10.06
96	#5		12	77'-0"		10.19
97	#5		12	78'-0"		10.32
98	#5		12	79'-0"		10.45
99	#5		12	80'-0"		10.58
100	#5		12	81'-0"		10.71

BAR SCHEDULE (Continued)						
Bar	Size	Location	No.	Length	Shape	Wt.
101	#5	Wing	12	6'-0"		.78
102	#5		12	7'-0"		.88
103	#5		12	8'-0"		.98
104	#5		12	9'-0"		1.08
105	#5		12	10'-0"		1.18
106	#5		12	11'-0"		1.28
107	#5		12	12'-0"		1.38
108	#5		12	13'-0"		1.48
109	#5		12	14'-0"		1.58
110	#5		12	15'-0"		1.68
111	#5		12	16'-0"		1.78
112	#5		12	17'-0"		1.88
113	#5		12	18'-0"		1.98
114	#5		12	19'-0"		2.08
115	#5		12	20'-0"		2.18
116	#5		12	21'-0"		2.28
117	#5		12	22'-0"		2.38
118	#5		12	23'-0"		2.48
119	#5		12	24'-0"		2.58
120	#5		12	25'-0"		2.68
121	#5		12	26'-0"		2.78
122	#5		12	27'-0"		2.88
123	#5		12	28'-0"		2.98
124	#5		12	29'-0"		3.08
125	#5		12	30'-0"		3.18
126	#5		12	31'-0"		3.28
127	#5		12	32'-0"		3.38
128	#5		12	33'-0"		3.48
129	#5		12	34'-0"		3.58
130	#5		12	35'-0"		3.68
131	#5		12	36'-0"		3.78
132	#5		12	37'-0"		3.88
133	#5		12	38'-0"		3.98
134	#5		12	39'-0"		4.08
135	#5		12	40'-0"		4.18
136	#5		12	41'-0"		4.28
137	#5		12	42'-0"		4.38
138	#5		12	43'-0"		4.48
139	#5		12	44'-0"		4.58
140	#5		12	45'-0"		4.68
141	#5		12	46'-0"		4.78
142	#5		12	47'-0"		4.88
143	#5		12	48'-0"		4.98
144	#5		12	49'-0"		5.08
145	#5		12	50'-0"		5.18
146	#5		12	51'-0"		5.28
147	#5		12	52'-0"		5.38
148	#5		12	53'-0"		5.48
149	#5		12	54'-0"		5.58
150	#5		12	55'-0"		5.68
151	#5		12	56'-0"		5.78
152	#5		12	57'-0"		5.88
153	#5		12	58'-0"		5.98
154	#5		12	59'-0"		6.08
155	#5		12	60'-0"		6.18
156	#5		12	61'-0"		6.28
157	#5		12	62'-0"		6.38
158	#5		12	63'-0"		6.48
159	#5		12	64'-0"		6.58
160	#5		12	65'-0"		6.68
161	#5		12	66'-0"		6.78
162	#5		12	67'-0"		6.88
163	#5		12	68'-0"		6.98
164	#5		12	69'-0"		7.08
165	#5		12	70'-0"		7.18
166	#5		12	71'-0"		7.28
167	#5		12	72'-0"		7.38
168	#5		12	73'-0"		7.48
169	#5		12	74'-0"		7.58
170	#5		12	75'-0"		7.68
171	#5		12	76'-0"		7.78
172	#5		12	77'-0"		7.88
173	#5		12	78'-0"		7.98
174	#5		12	79'-0"		8.08
175	#5		12	80'-0"		8.18
176	#5		12	81'-0"		8.28
177	#5		12	82'-0"		8.38
178	#5		12	83'-0"		8.48
179	#5		12	84'-0"		8.58
180	#5		12	85'-0"		8.68
181	#5		12	86'-0"		8.78
182	#5		12	87'-0"		8.88
183	#5		12	88'-0"		8.98
184	#5		12	89'-0"		9.08
185	#5		12	90'-0"		9.18
186	#5		12	91'-0"		9.28
187	#5		12	92'-0"		9.38
188	#5		12	93'-0"		9.48
189	#5		12	94'-0"		9.58
190	#5		12	95'-0"		9.68
191	#5		12	96'-0"		9.78
192	#5		12	97'-0"		9.88
193	#5		12	98'-0"		9.98
194	#5		12	99'-0"		10.08
195	#5		12	100'-0"		10.18

BILL OF MATERIALS		
Item	Quantity	Units
Class A-AE Concrete	206.5	Cu.Yds.
Reinforcing Steel	81.516	Lbs.
Concrete Handrail	81.0	Lbs.
Common Excavation	1623	Cu.Yds.
Hand	113	Cu.Yds.
Compacted Fill	8616	Cu.Yds.
2.5" Catchbasins	8	Each
18" R.C.P.	250	Lm.Ft.
18" R.C.P.	1380	Lm.Ft.
Brick Manhole	1	Each
Class A Concrete (Seal Course)	245	Cu.Yds.
Sand Fill	60	Tons

GENERAL NOTES:
Class A-AE Concrete shall be used throughout this project. All reinforcing steel shall conform to ASTM specifications.
REINFORCING STEEL shall be compacted to top of culvert. Compaction to be 100% of cut density.
WEEDHOLE: shall be deposited behind each weedhole to occupy a space
WEEDHOLE: coarse aggregate shall be deposited behind each weedhole to occupy a space
extending (15") in all directions above weed hole line. This work shall not be paid for directly, but shall be considered incidental to project.
SEAL COURSE: consisting of 3" dense bituminous 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 on it without injury.
BIDDING OF CULVERT: Culvert shall be bid as a "LUMP SUM" bid except for the Seal Course & Compacted Fill units. These two units will be paid for by the cu.yd. and shall be determined from the final quantities. The "BAR SCHEDULE" and "BILL OF MATERIAL" list shown on plan are to be used as a guide only and not to be considered as a final quantity. The Contractor will have full responsibility for providing all materials shown on the detailed plans necessary to complete this project. Construction of 2.5" catchbasins, leads, manhole and R.C.P. lines in Broadmoor and Rutland intersection will be considered part of current construction and Lump-sum bid. Ladder type trenching machine is to be used for storm sewer lines. Material for compacted fill is available at dirt stockpile north of the intersection of Broadmoor and Rutland.