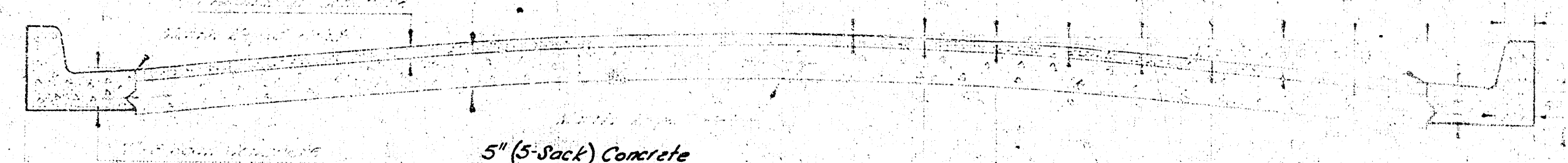


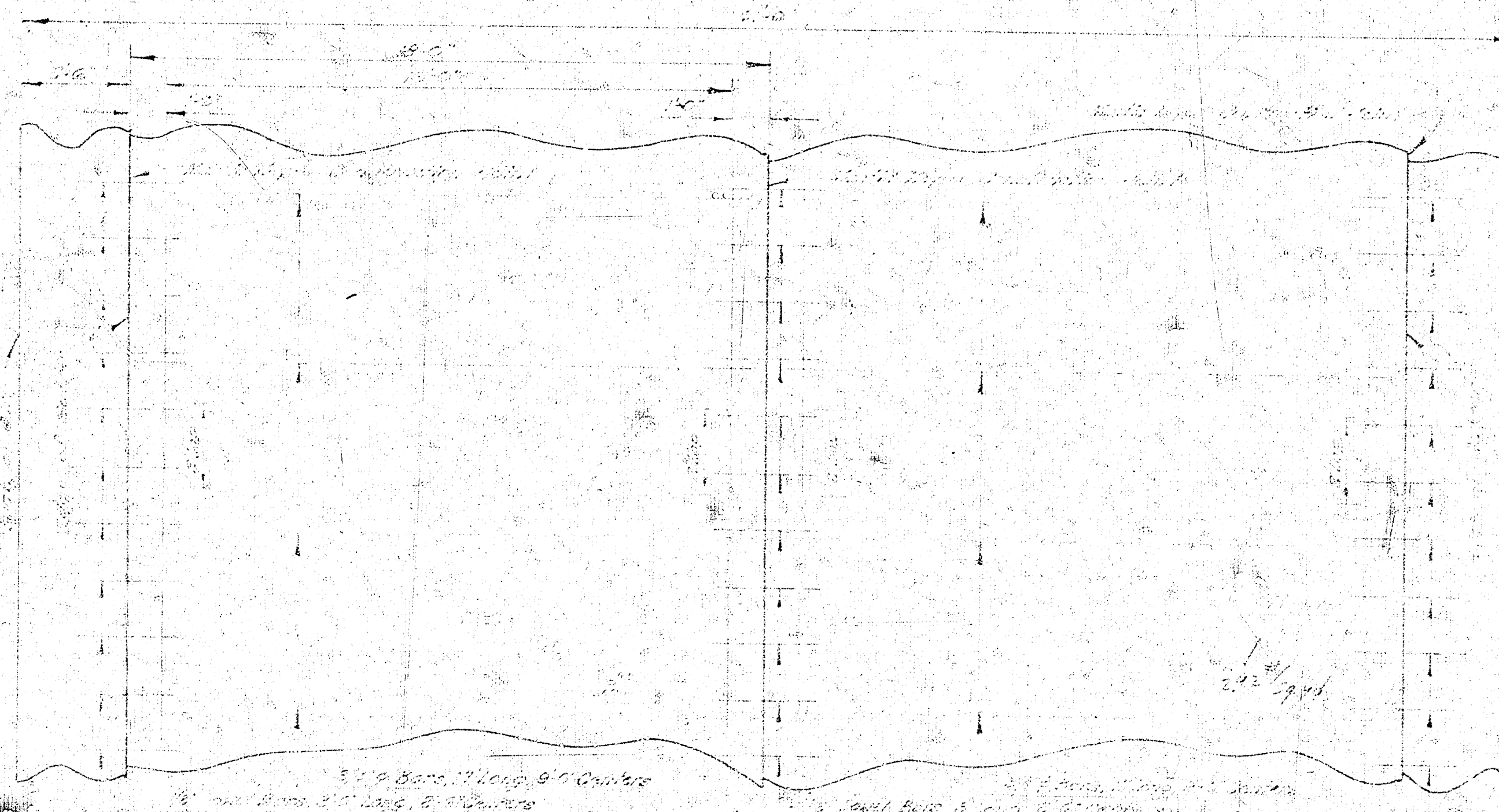
DOUGLAS AVENUE

FROM W.L. ROCKWOOD 3 RD. ADDITION TO E.L. RUTLAND ROAD
CITY OF WICHITA KANSAS B.E. SMITH CITY ENGINEER

PROJECT NO. C14-58

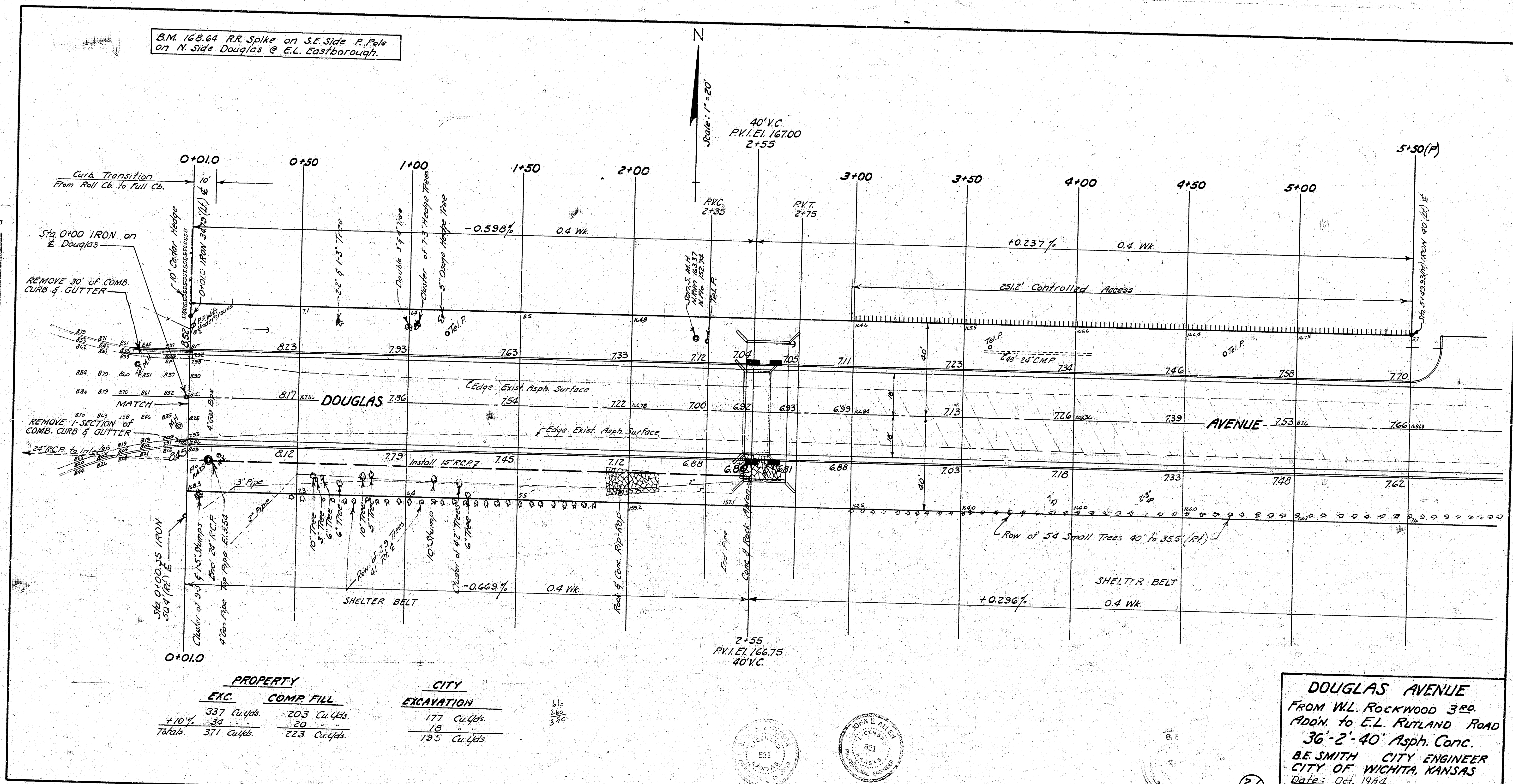


TYPICAL SECTION
NOT TO SCALE



USE 3/4" Ø BARS EXCEPT WHERE NOTED
NOT TO SCALE

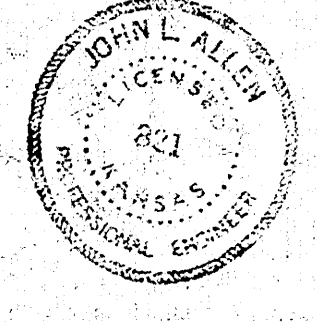
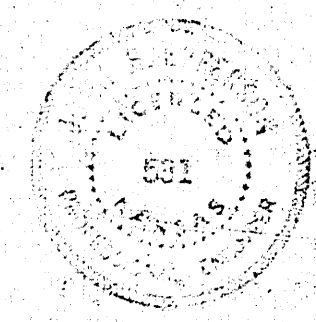
B.M. 168.64 R.R. Spike on S.E. Side P. Pole
on N. Side Douglas @ E.L. Eastborough.



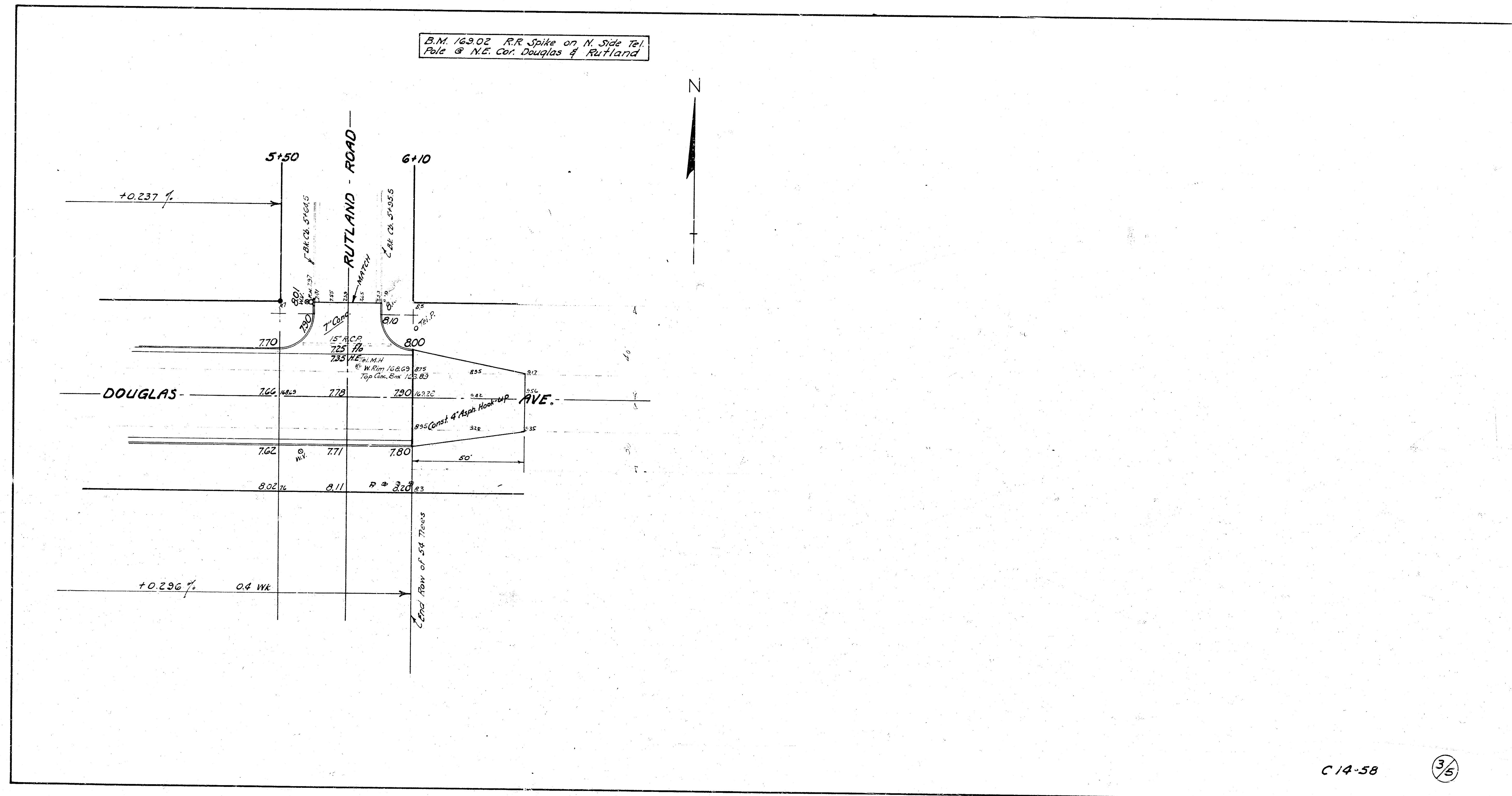
Scale: 1"=20'

PROPERTY		CITY	
EXC.	COMP. FILL	EXCAVATION	
337 Cu. Yds.	203 Cu. Yds.	177 Cu. Yds.	
410' 34"	20	18	
Totals	377 Cu. Yds.	223 Cu. Yds.	195 Cu. Yds.

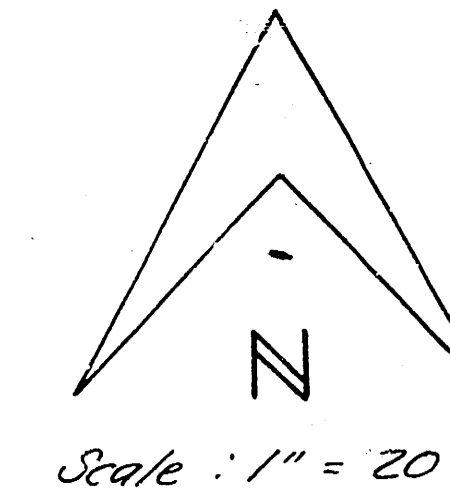
DOUGLAS AVENUE
FROM W.L. ROCKWOOD 3RD
ADJ. to E.L. RUTLAND ROAD
36'-2'-40' Asph. Conc.
B.E. SMITH CITY ENGINEER
CITY OF WICHITA, KANSAS
Date: Oct. 1964
Proj. No. C14-58



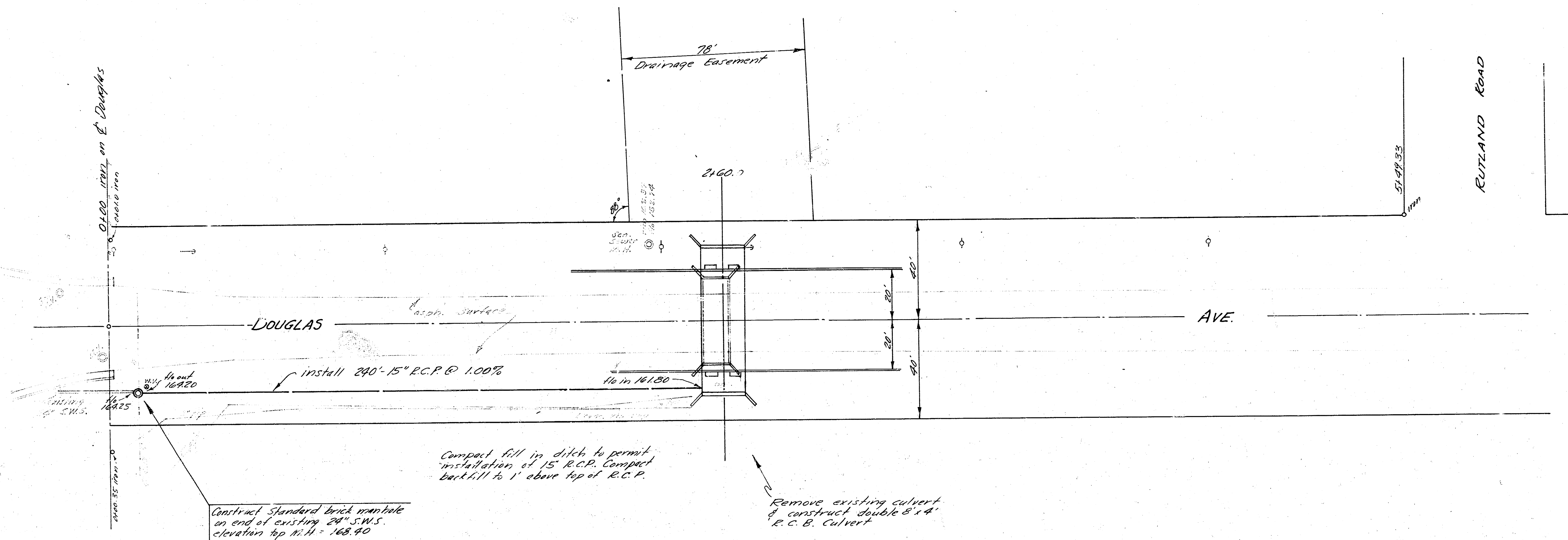
2/5



B.M. 168.64 R.R. Spike on S.E. Side P. Pole on
N.S. Douglas @ E.L. Eastborough

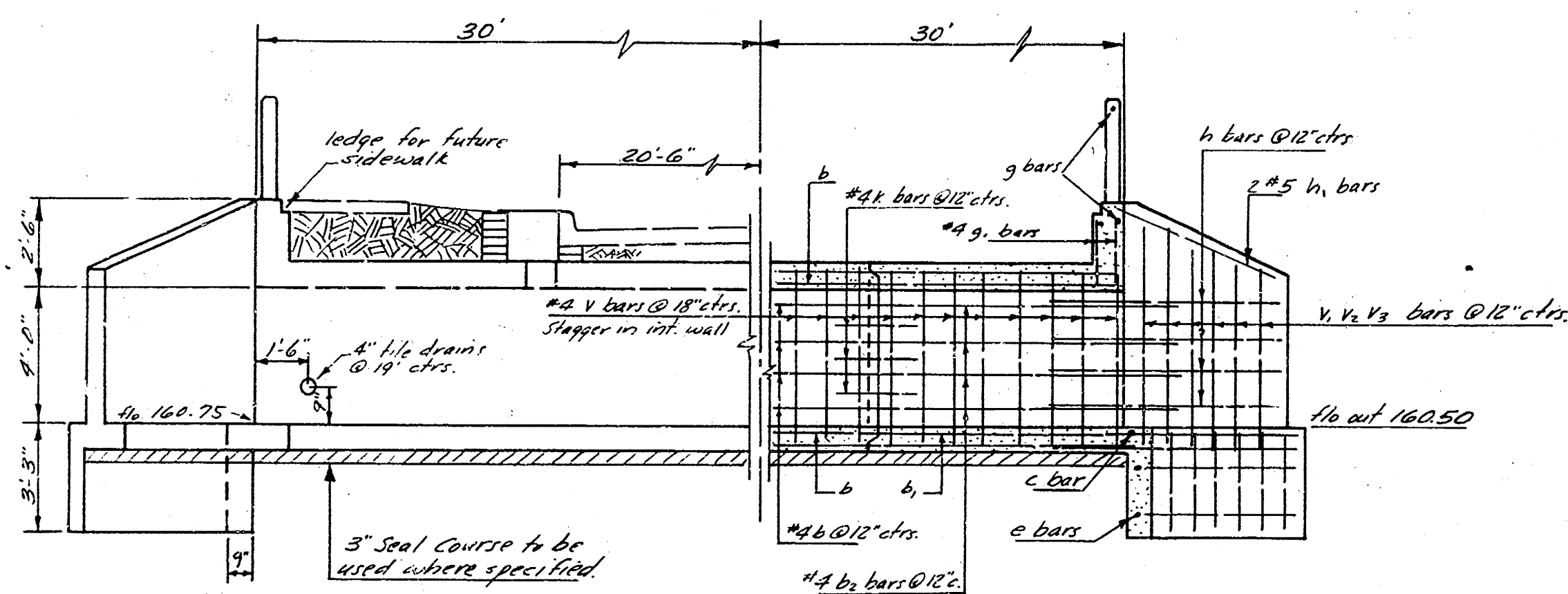


Sheet 1 of 1
11/18/78
L. Smith

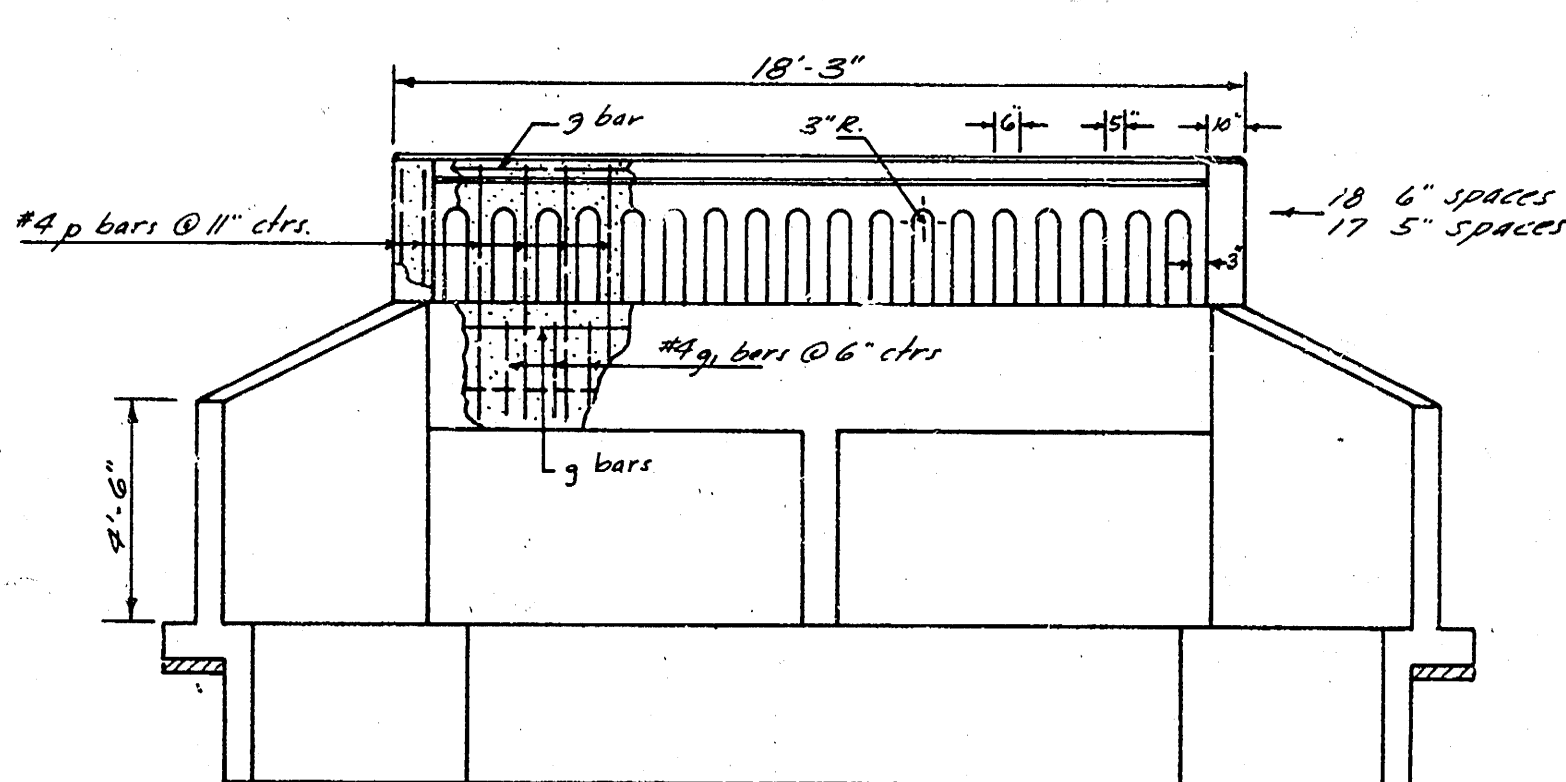


DOUGLAS AVE.
W.L. ROCKWOOD 3RD ADDN TO
E.L. RUTLAND ROAD
DOUBLE 8x4' CULVERT
CITY OF WICHITA, KANSAS
B.E. SMITH - CITY ENGINEER
Sept., 1964 PROJ. C14-58

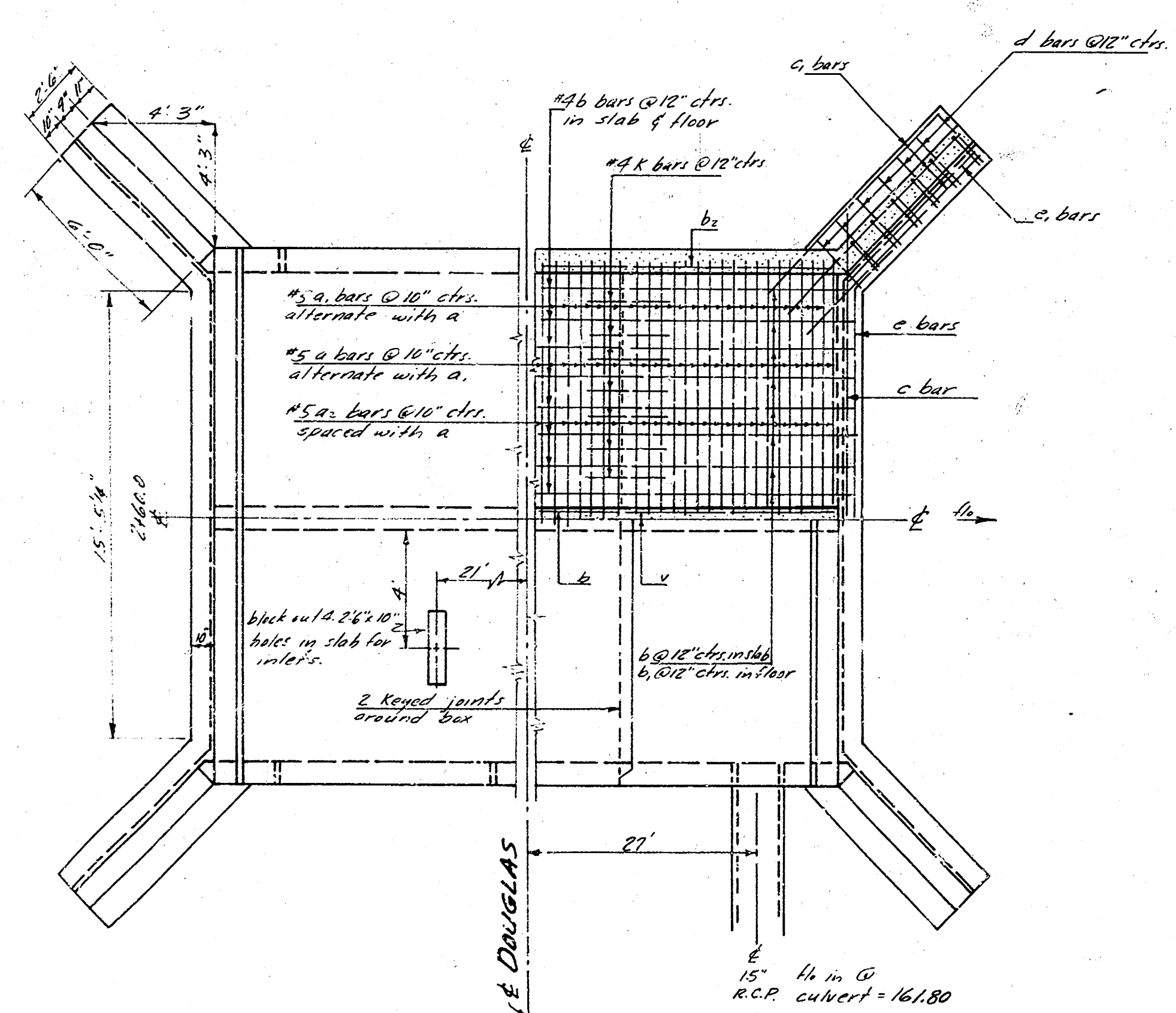
1/3



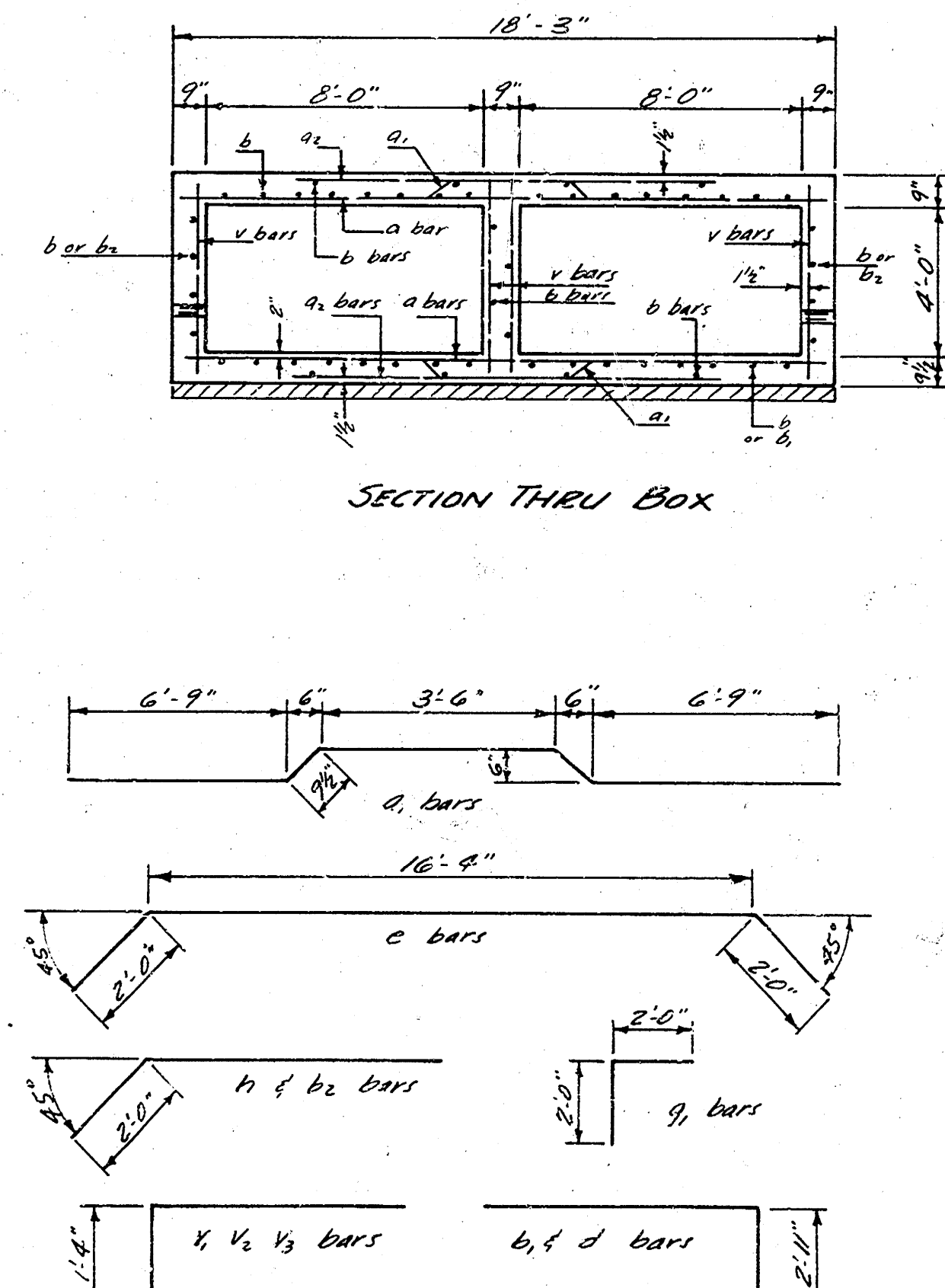
ELEVATION & SECTION



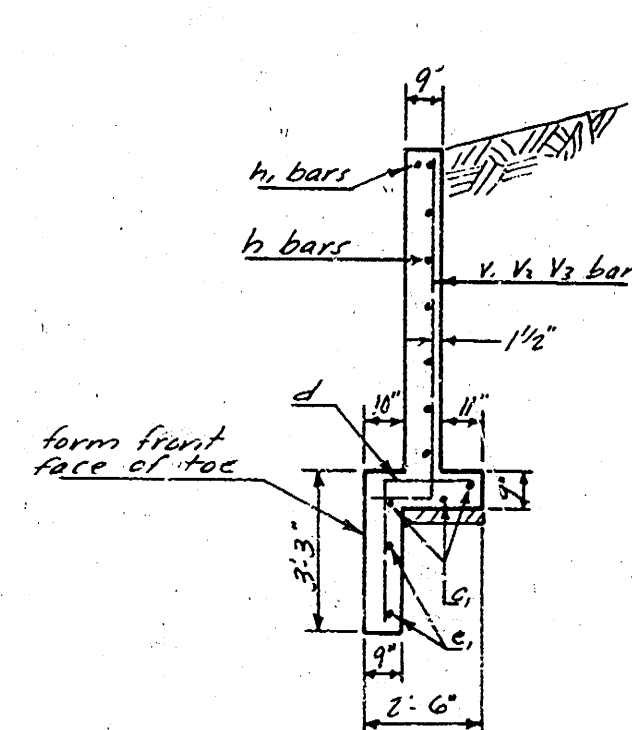
END ELEVATION



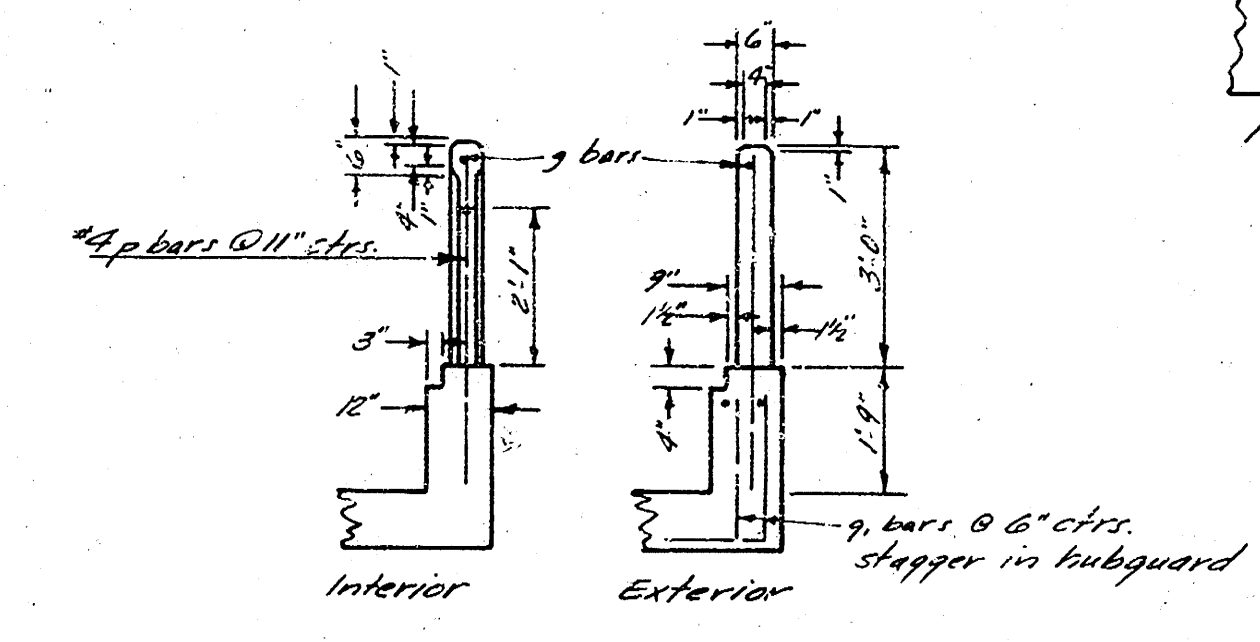
PLAN & SECTION



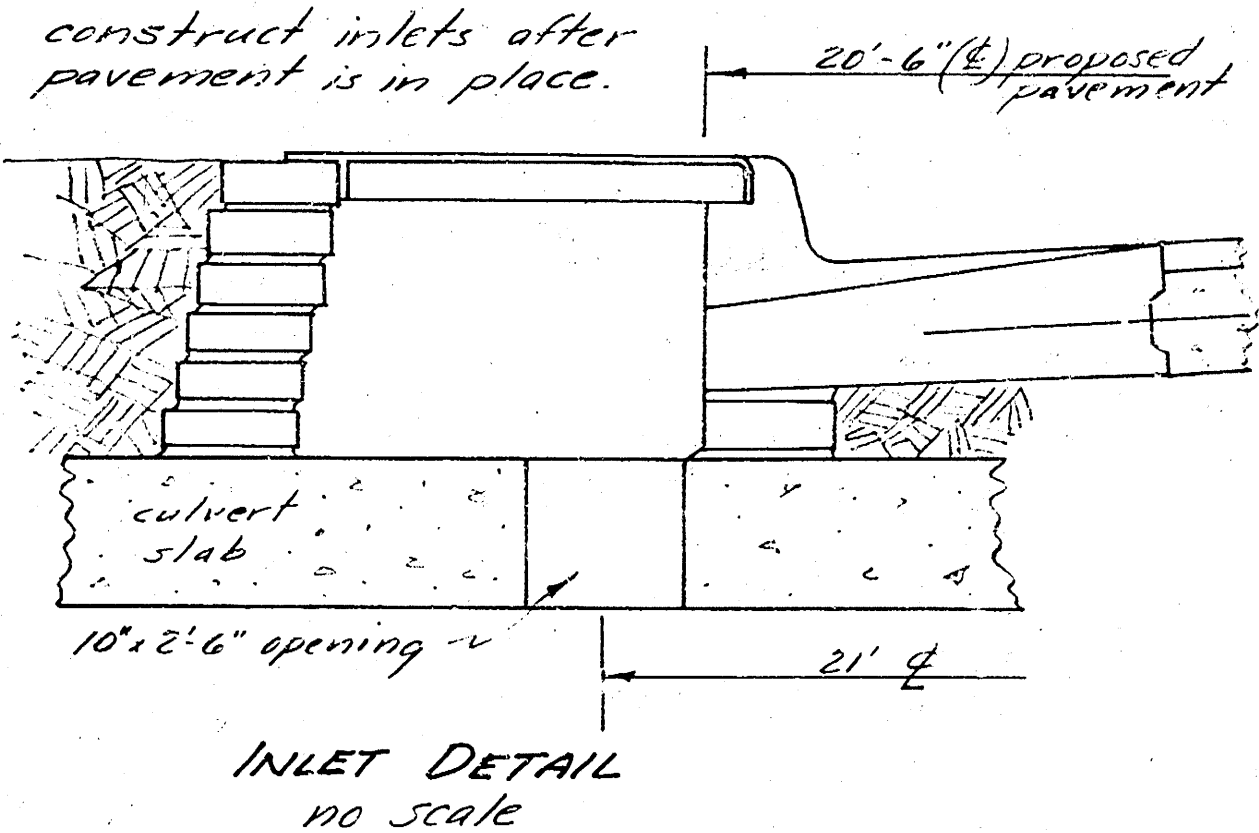
BAR BENDING DIAGRAMS



SECTION THRU WING



Hubguard & Handrail Detail
3/8" = 1'-0"



INLET DETAIL
NO SCALE

CONCRETE BOX CULVERT
DOUBLE 8' x 4'
DOUGLAS AVE.
PROJ. C14-58 SHEET 2 OF 3

Rein. Steel Schedule																									
Bar	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
No.	149	142	149	148	32	14	2	12	28	4	8	6	72	16	8	140	8	8	8	78	22				
Size	#5	#5	#5	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4
Length	18'0"	18'5"	12'0"	20'7"	20'1"	20'4"	7'0"	4'7"	20'4"	6'6"	8'4"	4'0"	5'6"	6'9"	5'3"	7'0"	6'6"	6'0"	3'7"	4'4"					

BILL OF MATERIALS		
Item	Quantity	Unit
Class A-AE concrete	95.0	cu. yds.
Reinforcing steel	11,070	lbs.
Concrete handrail	36.5	lin. ft.
Hard excavation	4.0	cu. yds.
Concrete culvert removed	1	each
2' x 5' inlets	4	each
Brick manhole	1	each
common excavations	150	cu. yds.
compacted fill	200	cu. yds.
Class A concrete (seal course)	10.6	cu. yds.
15" rein. conc. pipe	240	lin. ft.

lump sum items

unit bid items

GENERAL NOTES:

Class A-AE concrete to be used in the structure.
Class D concrete is to be used in the handrail & base.
Seal Course consisting of Class A concrete is to be constructed only where specified by the Engineer. No reinforcing steel shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.
Bevel all exposed edges with a 3/8" triangular mold.
Coarse aggregate to be deposited behind each weep hole to occupy a space extending 15" in all directions from the weep hole. This is a no pay item incidental to the project.
Compact backfill to the top of the culvert backfill of excavation to extend 5' beyond sides of box & wingwalls. Compact fill in existing roadside ditch to permit installation of 15" R.C.P.
Fill washout in the channel on south side of the culvert with broken concrete (no steel) up to elevation 166.4. Filling of washout, removal of asphalt, & removal of broken concrete is to be considered as part of bid of 'culvert removed' in lump sum bid.