

FEDERAL AID PROJECT
BUTLER COUNTY

SCALES. - PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS-SECTIONS 1 IN. = 5 FT.

Proj. FA 58-B(3)
Proj. FA 58-C(2)
Proj. FA 58-C2(2)



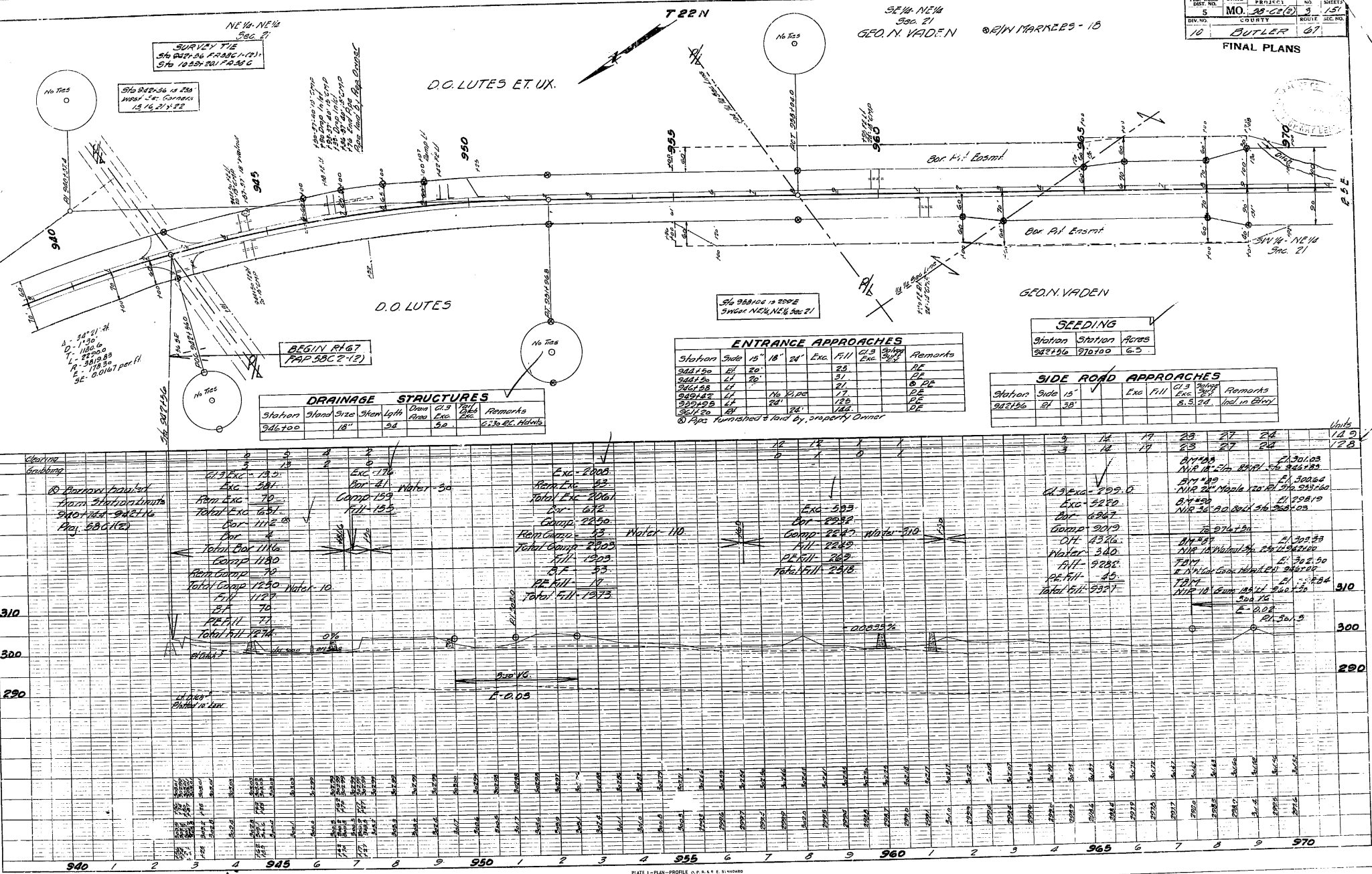
FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	FA 36 CR- (2)		2-A	151
DIV. No.	COUNTY			ROUTE	SEC. No.
10	BUTLER			67	

FINAL SUMMARY OF QUANTITIES

FINAL SUMMARY OF QUANTITIES

Prepared By _____ Date _____ 19____ Checked in Div. Office By _____ Date _____ 19____ Checked in Central Office By _____ Date _____ 19____ Revised by _____

FINAL PLANS



BEGIN R167
 PAP. 50C 2-12

DRAINAGE STRUCTURES

Station	Hand	Size	Shen	Lgth	Drain	C.I.B	Remarks
946.700		18"	58		Exc.	5.0	C.I.B. Exc. Abolite

ENTRANCE APPROACHES

Station	Side	15"	18"	24"	Exc.	Fill	C.I.B	Remarks
944.100	EL	20'			23		DF	
944.150	EL	20'			31		DF	
944.158	EL				21		DF	
944.162	EL				13		DF	
944.168	EL				13		DF	
944.170	EL				24		DF	

6) App. furnished & laid by property owner

SEEDING

Station	Station	Acres
942.100	970.100	6.5

SIDE ROAD APPROACHES

Station	Side	15"	Exc.	Fill	C.I.B	Remarks
942.100	EL	30'			8.5	24' Incl. in Comp.

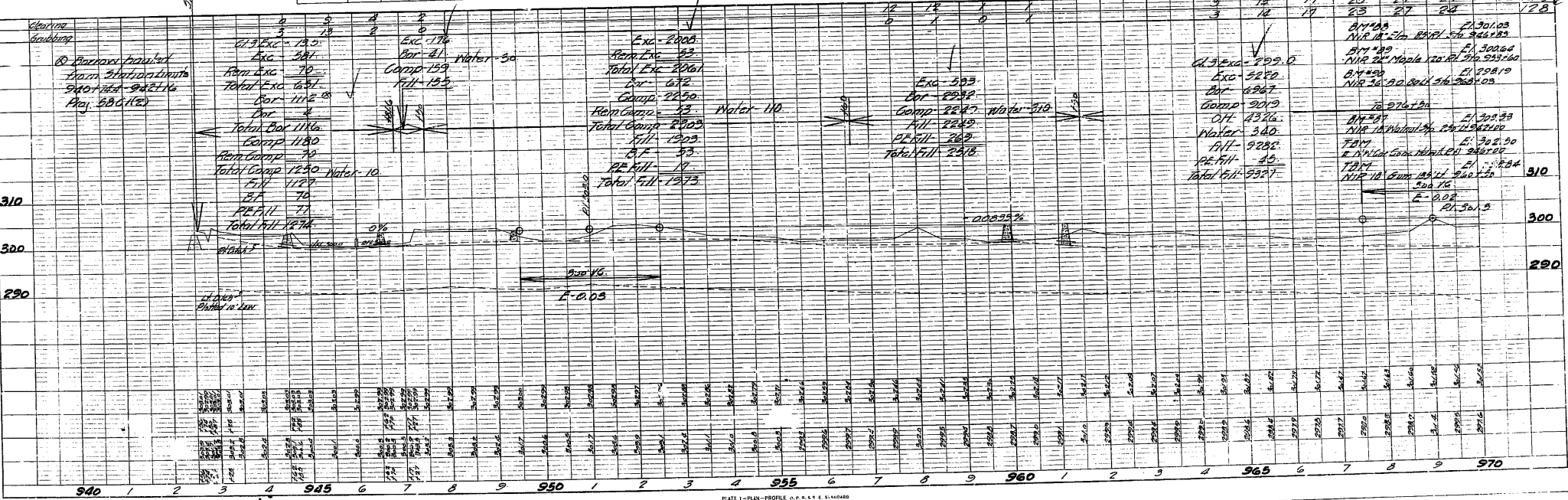
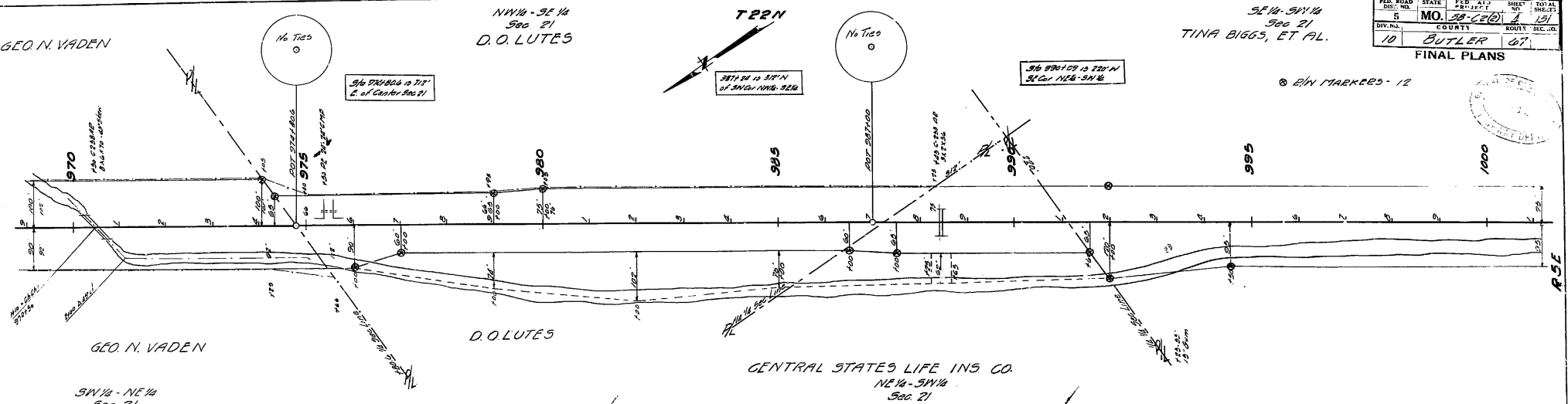


PLATE 1 - PLAN - PROFILE OF R167 & R168
 REUPPEL & CO. INC. OF NEW YORK



ENTRANCE APPROACHES

Station	Side	2d' Exc	Fill	Gr. S. Slope	Remarks
975+50	L	24'	43'	RE	

DRAINAGE STRUCTURES

Station	Span	Size	Shed	Lgth	Drain Area	Gr. S. Slope	Remarks
975+50	24" x 24"	24"	45'	70'	2820	5" Hauls	
985+25	24" x 24"	24"	56'		4400	5" Hauls	

SEEDING

Station	Station	Acres
970+00	1000+00	7.9

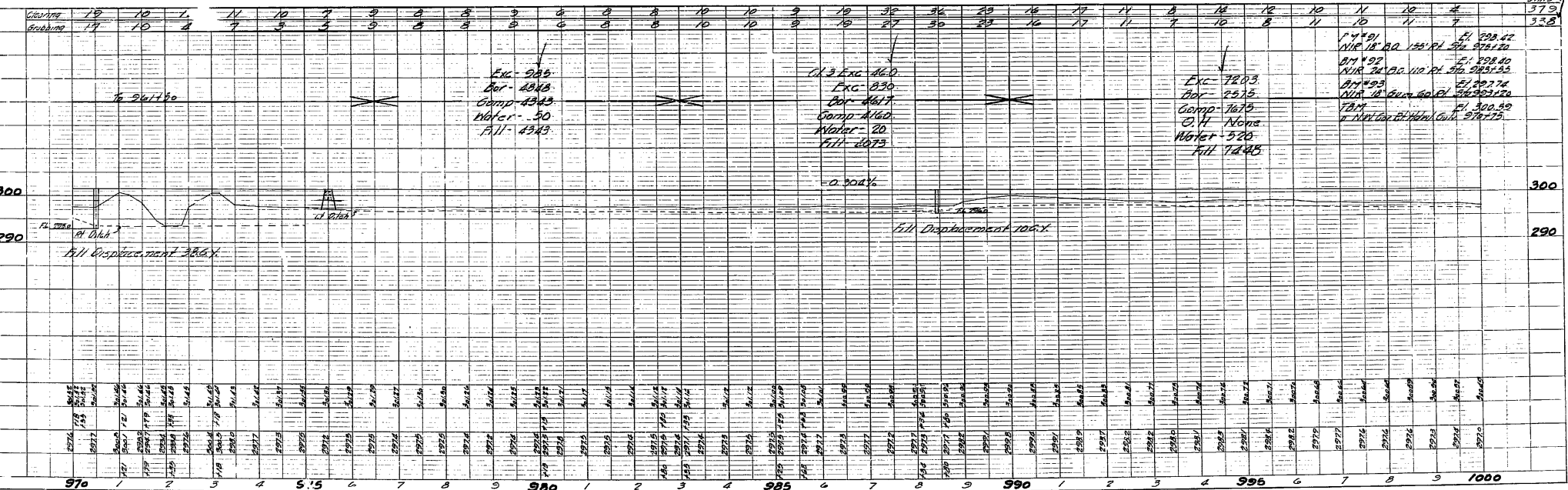


PLATE 1 - PLAN - PROFILE OF ROAD & STRUCTURES

SE 1/4 - NW 1/4
Sec. 21
TINA BIGGS ET AL.

NE 1/4 - NW 1/4
Sec. 28
J.L. TATE ESTATE

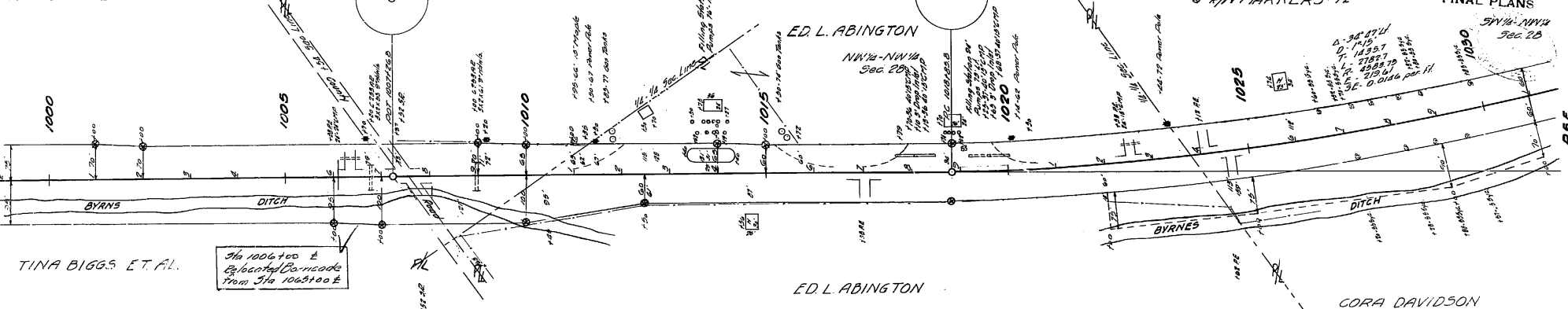
T 22 N

CGRA DAVIDSON

R/W MARKERS - 12

PLAT NO.	STATE	FED. AID	SHEET NO.	TOTAL SHEETS
3	MO.	28	67	131
DIV. NO.	COUNTY	ROUTE	SECTION	
10	BUTLER	67		

FINAL PLANS



TINA BIGGS ET AL.

ED. L. ABINGTON

CORA DAVIDSON

Inside of 3rd NW 1/4 13.9' Longitudinal & of Cor. 11.2' E. and Parallel to E. of 67' 14' N. 11.2' S. 35' W. with reference to box & parallel to SE E. 3.5' total 12.4' E. to box. 9' NW 1/4.

Station	Side	Size	Shen	Light	Drain Area	C.I. 3	Exc.	Remarks
1006+00	LT	23'x30'	3X2	55	31.0	31.0	21.0	2' Holes
1007+00	LT	23'x30'	3X2	51	27.0	27.0	21.0	2' Holes
1007+20	LT	23'x30'	3X2	51	27.0	27.0	21.0	2' Holes

No. 1007+34 E. Removal Existing Structure Lump Sum

Station	Station	Area
1007+00	1007+20	6.31

ENTRANCE APPROACHES									
Station	Side	15'	18'	24'	Exc.	Fill	C.I. 3 Exc.	Sample Depth C.I.	Remarks
1006+38	LT			24'		6.0			PE
1017+05	LT		No Pipe			2.0			PE
1022+58	LT	24'				5.5		7.	PE
1026+18	LT		No Pipe			2.7		7.	PE
1028+62	LT		No Pipe			3.1		7.	PE

SHADE TREES ✓			
Station	Station	Side	No
1026+60	1030+00	Lt	6
1027+20	1030+00	Rt	4

SIDE ROAD APPROACHES					
Station	Side	Exc.	Fill	C.I. 3	Remarks
1007+00	LT				2' Holes
1007+20	LT				2' Holes

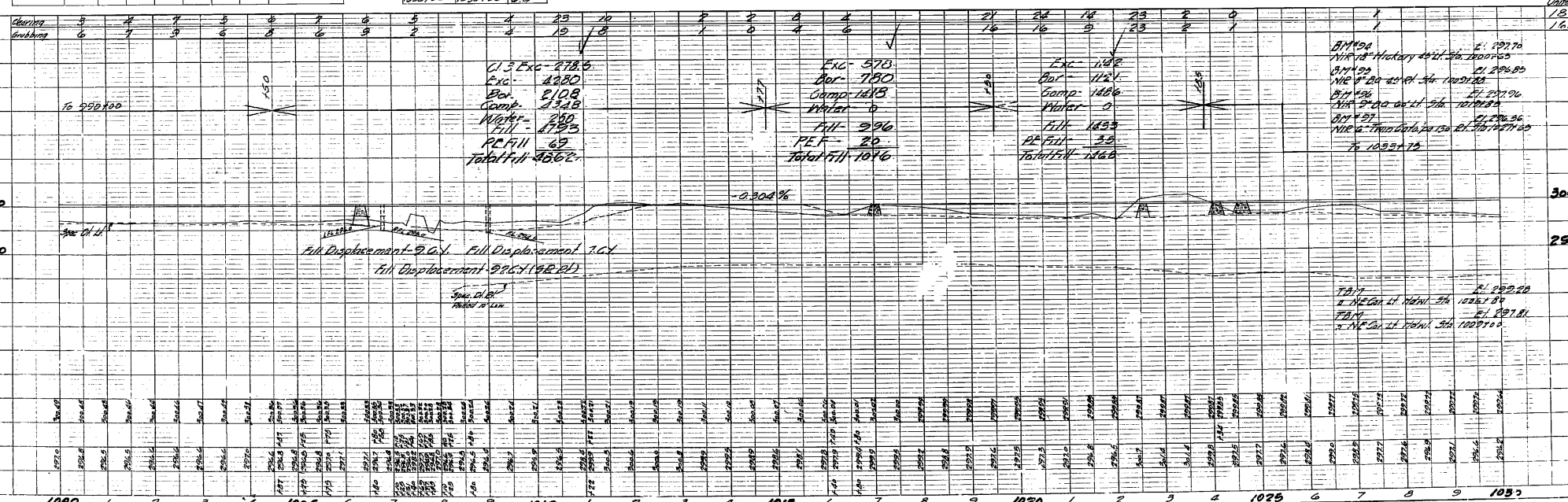
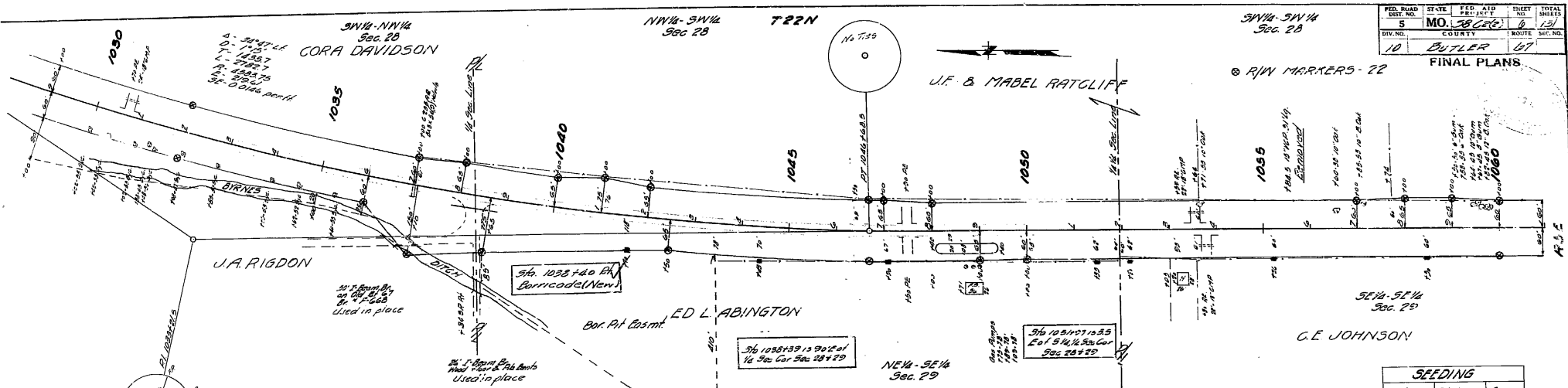


PLATE 1 - PLAN - PROFILE OF ROAD STANDARD



SE 1/4 - NE 1/4 Sec. 29

DRAINAGE		STRUCTURES		Remarks	
Station	Hand	Size	Shank	Depth	Remarks
1035+00	612x612	3x3	36		2" Nozzle Removal
1035+84.9					

ENTRANCE APPROACHES

Station	Side	15'	18'	24'	Exc.	Fill	C.I. 3 Exc.	Remarks
1031+70	LT		26		36			DE
1047+60	ET				35			16" Pipe DE
1048+50	LT				30			16" Pipe DE
1053+59	LT		22		30		7	DE
1053+80	ET		22		27			DE

SHADE TREES

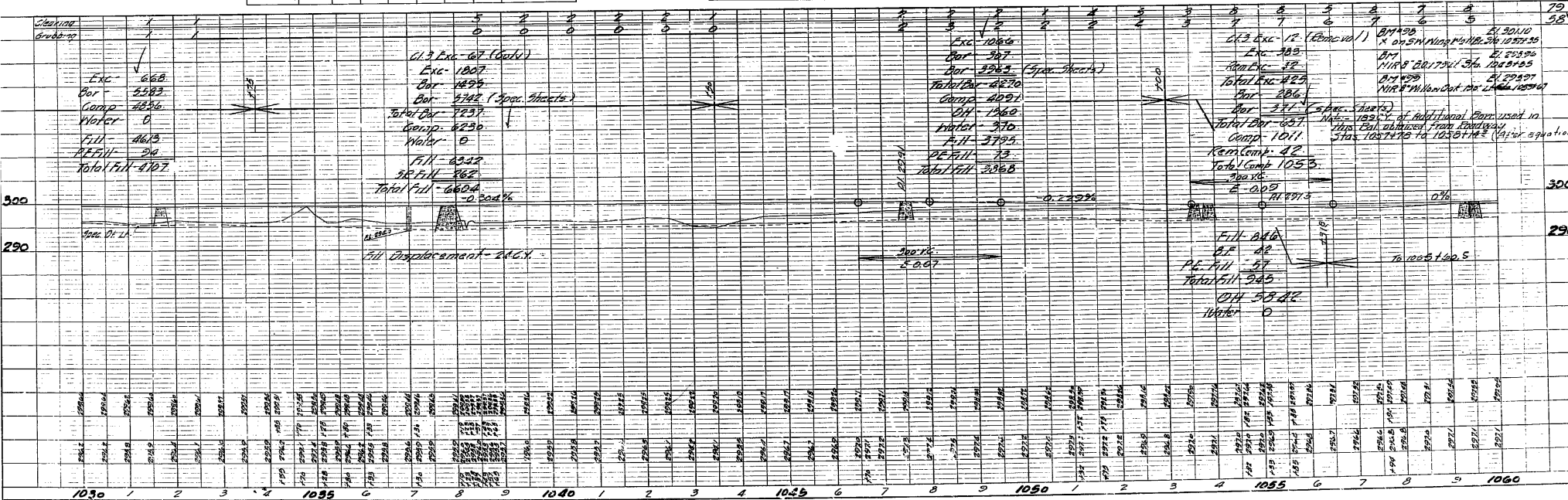
Station	Side	No	Remarks
1030+02	ET	10	
1035+40	ET		

SIDE ROAD APPROACHES

Station	Side	Exc.	Fill	C.I. 3	Exc.	Remarks
1036+34	ET		242			No Pipe

SEEDING

Station	Station	Area
1030+00	1060+00	6.9



SW 1/4 - SW 1/4
Sec. 28
MABEL RATCLIFF

NNW 1/4 - NNW 1/4
Sec. 33

T22N

SW 1/4 - SW 1/4
Sec. 33

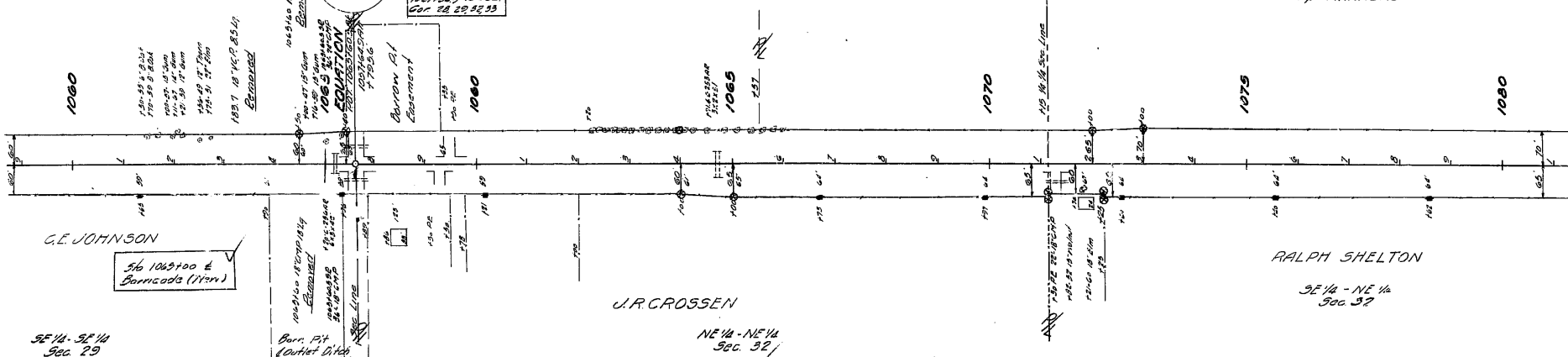
SW 1/4 - NW 1/4
Sec. 33

PER. ROAD STATE PER. AID
DIST. NO. 5 MO. 58 C.C. 1
DIV. NO. COUNTY ROUTE
10 BUTLER 47
FINAL PLANS

R. M. ABERNATHY

H. KIMBERLIN

8 R/W MARKERS - 11



ENTRANCE APPROACHES

Station	Side	15'	18'	24'	Exc.	Fill	Remarks
10714.30	GL	22	32			DE	
10591.30	GL	100'	10	200'	36	DE	
10591.50	LT						

SIDE ROAD APPROACHES

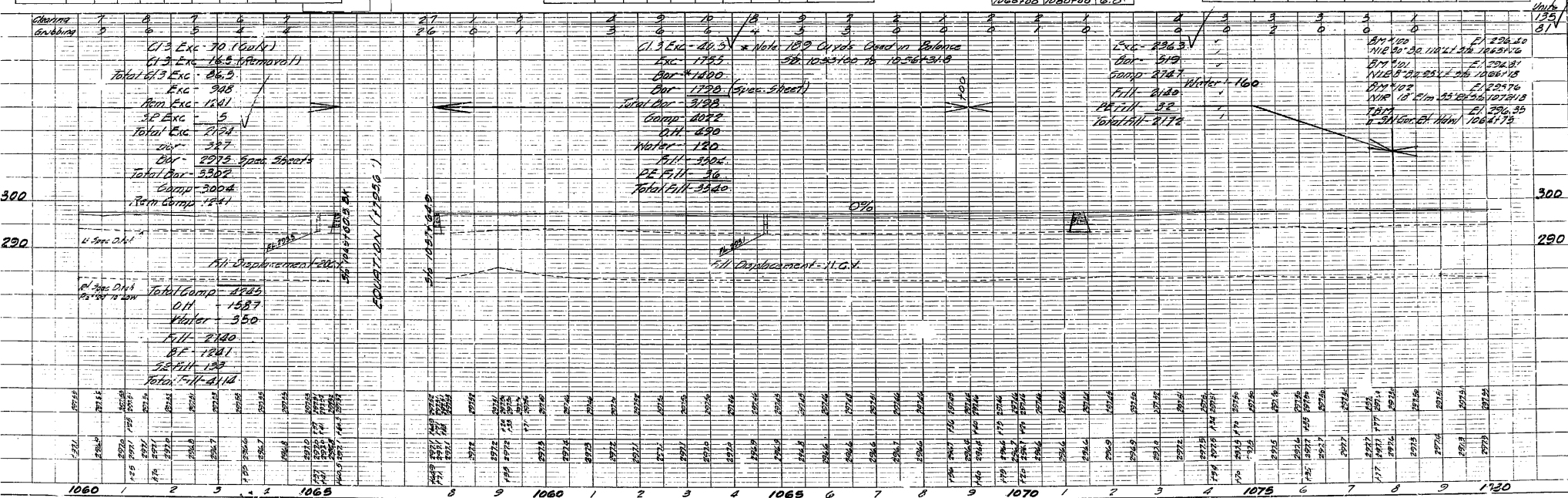
Station	Side	15'	18'	24'	Exc.	Fill	Remarks
10620.00	GL	36	2	62		DE	
10621.60	LT	36	2	71		DE	

SEEDING

Station	Station	Area
106100	1060100	6.8

DRAINAGE STRUCTURES

Station	Span	Size	Shew	Lph	Drain Area	Exc.	Fill	Remarks
10631.87								
10631.20	CPB	48.0		42	2.0			Empoal
10631.60					70.0			9' Holes
10631.60					5.0			Empoal
10631.60					40.0			9' Holes



FINAL P
Outlet Ditch Survey

NW 1/4 - NE 1/4
Sec 32

⊗ R/W MARKERS - 5

No 7129

1060

EQUATION
1065 1425 - 1065 1425
0700 0700 0700 0700

0400 15 Cor. 13
Sec 28, 27, 32 & 33

1065

Boo Pitt Easmt.

DITCH CLEANOUT RT STA. 1065+60.5

CARL E. JOHNSON

END SPECIAL
OUTLET DITCH

SE 1/4: SE 1/4
Sec 29

SW 1/4 SE 1/4
Sec. 29

Clearing
Grubbing

Units
27
15

Exc. 1663.
Fill- 1271.
No Overhaul

BM 100	El 294.40
NIP 30" B.O. 110 Lt Sls	100.5976
TBM "A"	El 295.10
NIP 6" Persimmon	25" Lt Sls 100.65
TBM "B"	El 296.25
NIP 6" Tava Elm	25" Lt Sls 251.70

300

290

TABLE 1. PLAN PROFILE OF THE STUDY

SW 1/4 - NW 1/4
Sec. 33

R.M. ABERNATHY

LOT 1 - SW 1/4
Sec. 33
H.E. ODOM

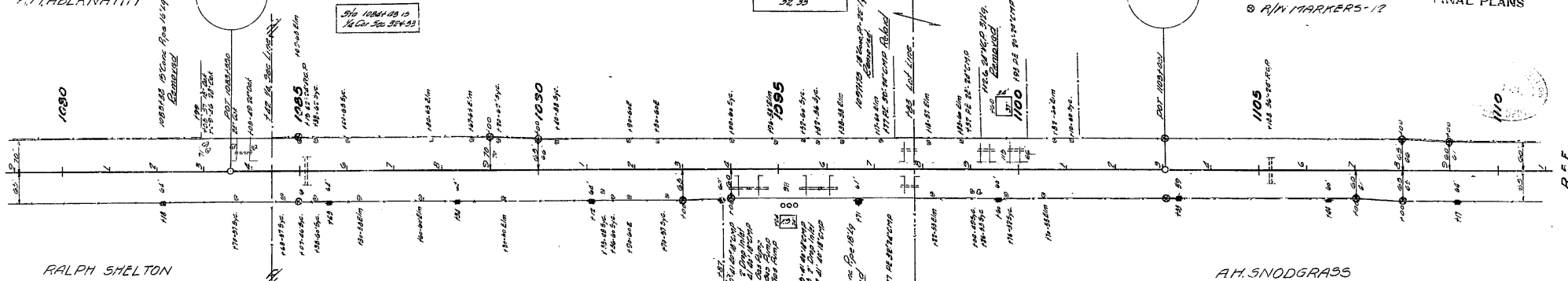
T 22 N

LOT 2 - SW 1/4
Sec. 33
H.E. ODOM

8 R/W MARKERS - 12

PROJECT NO.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
5	MO.	3868(2)	8	131
DIST. NO.	COUNTY	ROUTE	SECTION	
10	OUTLER	67		

FINAL PLANS



SE 1/4 - NE 1/4
Sec. 32

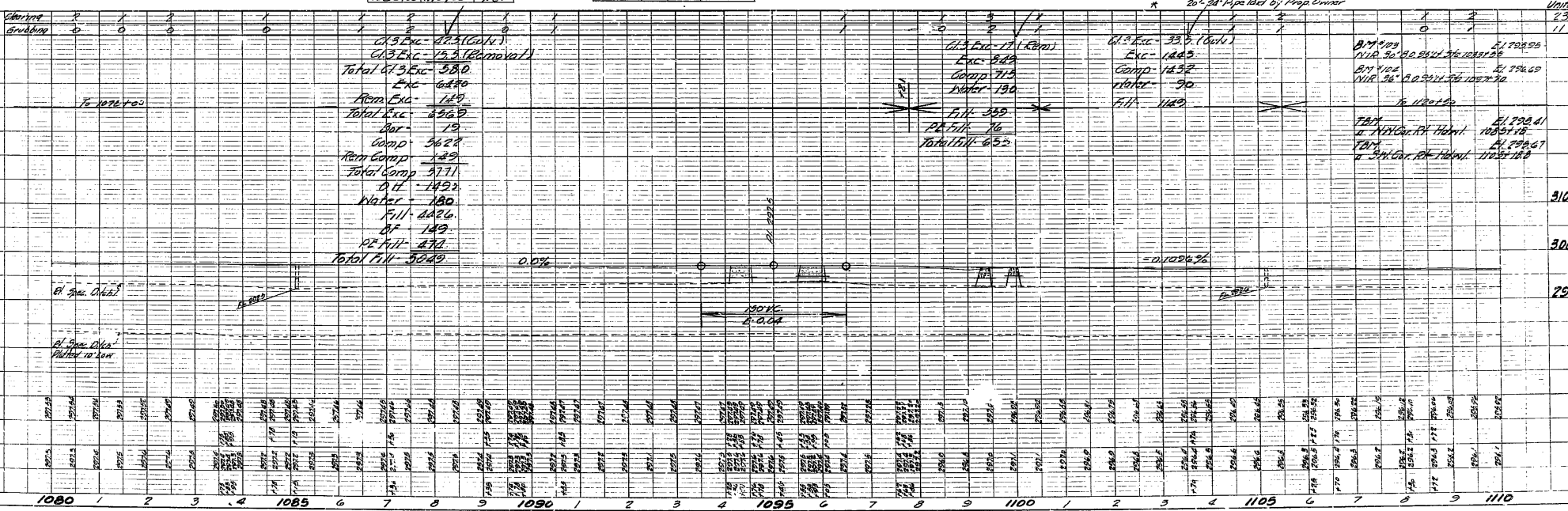
Station	Side	Size	Stem	Depth	Drain	Exc.	Remarks
1083+88							Removal
1085+12	SE	24"					Removal
1097+75							Removal
1097+76							Removal
1097+112							Removal
1097+112	SE	24"					Removal

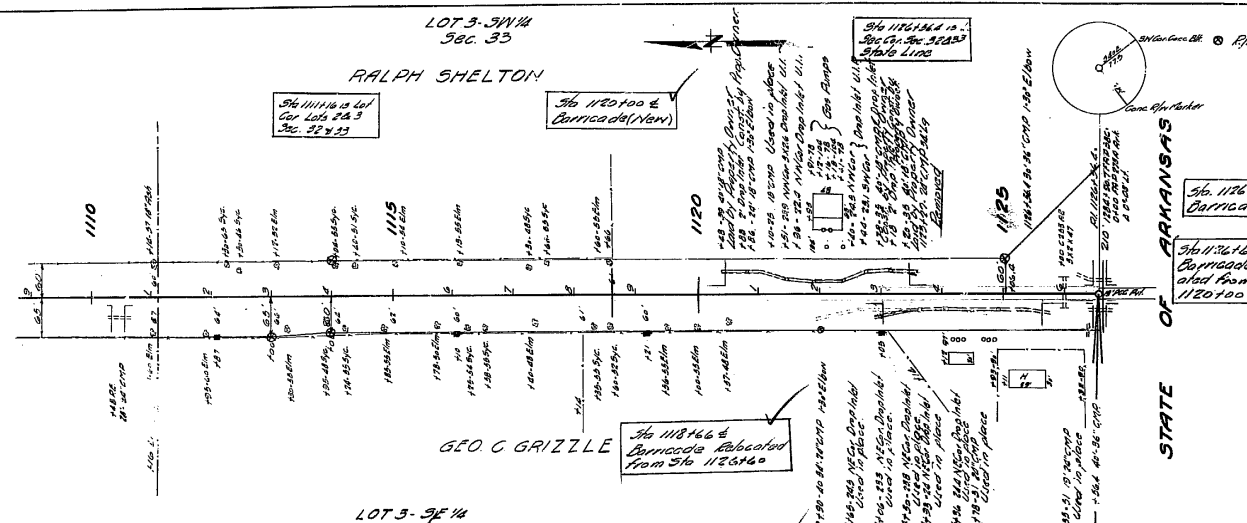
Station	Station	Area
1080+00	1110+00	7.2

Station	Side	Size	Stem	Depth	Drain	Exc.	Remarks
1083+88							Removal
1085+12	SE	24"					Removal
1097+75							Removal
1097+76							Removal
1097+112							Removal
1097+112	SE	24"					Removal

Station	Station	Side	No.
1083+70	1107+70	SE	16
1085+00	1107+10	SE	19

Station	Side	18"	24"	Exc.	F.I.	C.I.	Remarks
1083+20	SE						DE
1083+40	SE						DE
1083+60	SE						DE
1083+80	SE						DE
1083+100	SE						DE
1083+120	SE						DE
1083+140	SE						DE
1083+160	SE						DE
1083+180	SE						DE
1083+200	SE						DE
1083+220	SE						DE
1083+240	SE						DE
1083+260	SE						DE
1083+280	SE						DE
1083+300	SE						DE
1083+320	SE						DE
1083+340	SE						DE
1083+360	SE						DE
1083+380	SE						DE
1083+400	SE						DE
1083+420	SE						DE
1083+440	SE						DE
1083+460	SE						DE
1083+480	SE						DE
1083+500	SE						DE
1083+520	SE						DE
1083+540	SE						DE
1083+560	SE						DE
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1083+880	SE						DE
1083+900	SE						DE
1083+920	SE						DE
1083+940	SE						DE
1083+960	SE						DE
1083+980	SE						DE
1083+1000	SE						DE
1083+1020	SE						DE
1083+1040	SE						DE
1083+1060	SE						DE
1083+1080	SE						DE
1083+1100	SE						DE





DRAINAGE STRUCTURES

Station	Stand	Size	Skew	Lgth	Drain	C/S	Exc.	Remarks
1120+27	1120+27	36"	0	47	12.0	12.0	Comp. 1	9' 11" 1/2
1120+27	1120+27	36"	0	47	12.0	12.0	Comp. 1	9' 11" 1/2

ENTRANCE APPROACHES

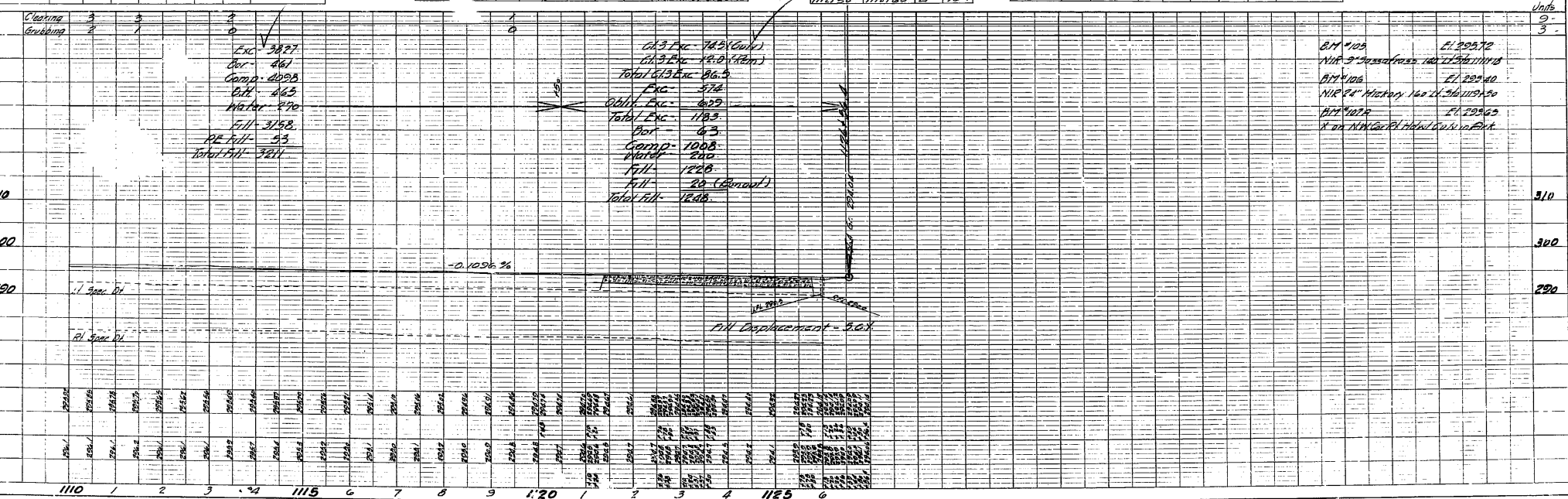
Station	Side	15'	18'	24'	Exc.	Fill	C/S	Exc.	Remarks
1120+27	RT			28	63		DE		Exc. 100' 0"
1120+27	LT	24	24	100' 0"	100' 0"	4	1.2	1.2	Exc. 100' 0"
1120+27	RT			34	7	1.2	1.2	1.2	Exc. 100' 0"

SHADE TREES

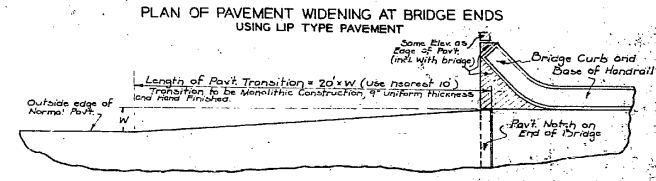
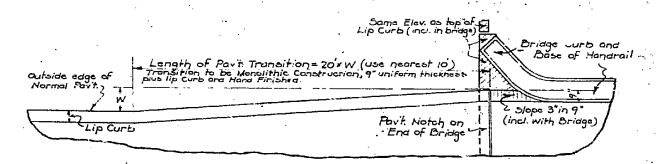
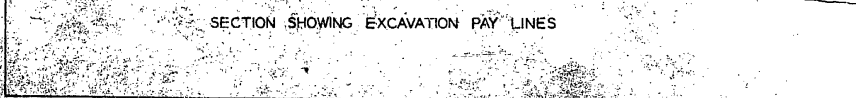
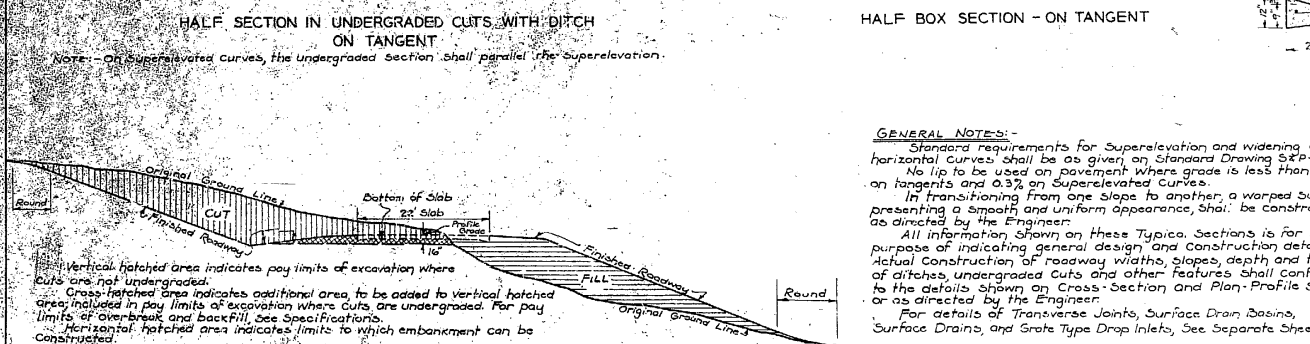
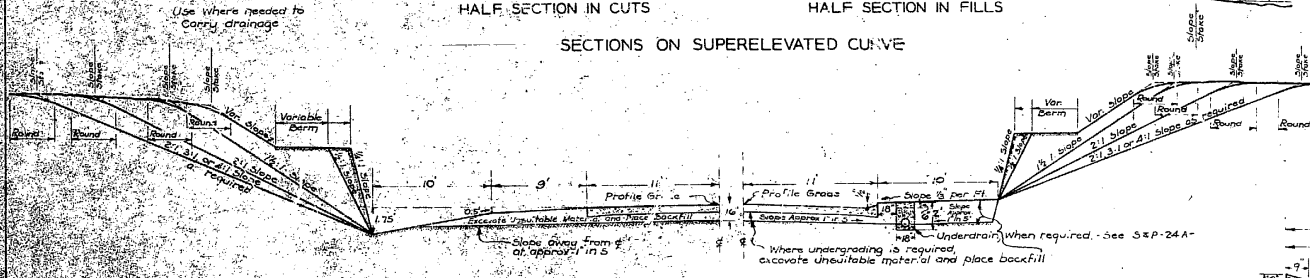
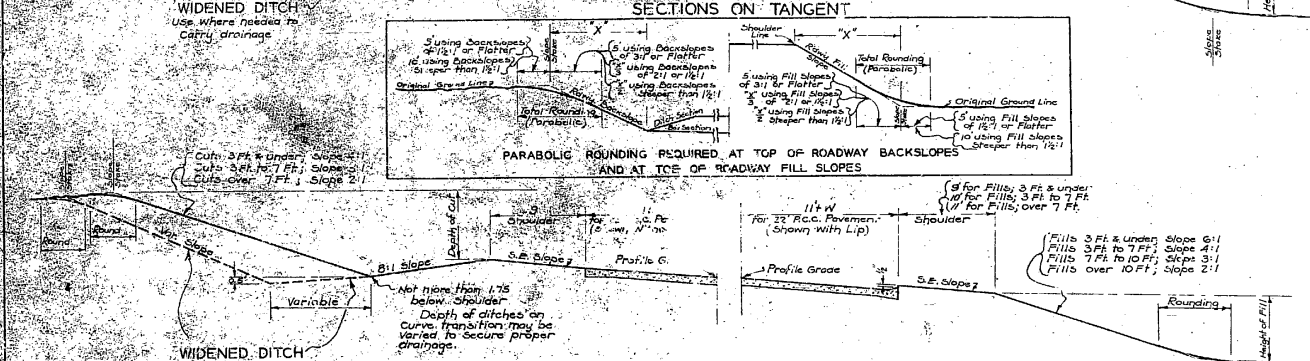
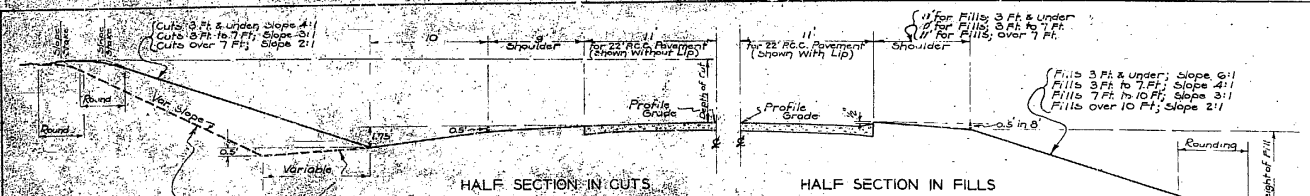
Station	Side	No.
1120+27	RT	12
1120+27	LT	10

SIDE ROAD APPROACHES

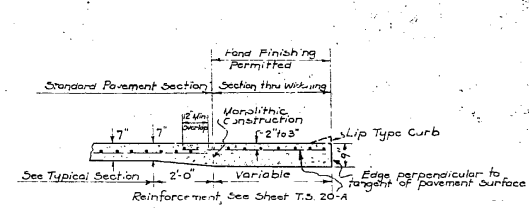
Station	Side	36"	Exc.	Fill	C/S	Exc.	Remarks
1120+27	LT	36"	100' 0"	100' 0"	1.2	1.2	Exc. 100' 0"
1120+27	RT	36"	100' 0"	100' 0"	1.2	1.2	Exc. 100' 0"



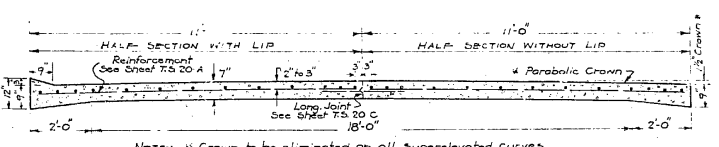
Proj. No.	State	Proj. No.	Year	Sheet	Total
5	Mo.				



PLAN OF PAVEMENT WIDENING AT BRIDGE ENDS USING PAVEMENT WITHOUT LIP



TYPICAL SECTION SHOWING CURVE WIDENING AND OTHER IRREGULAR PAVEMENT WIDENING



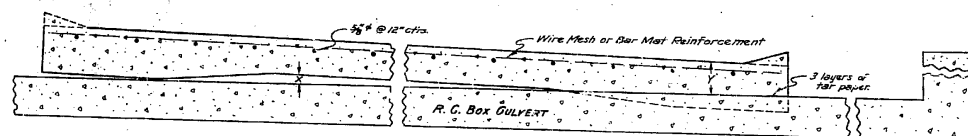
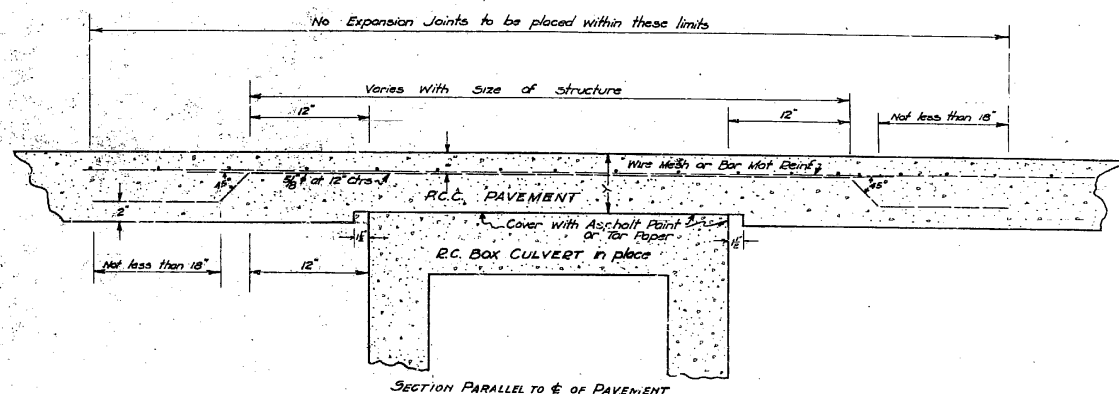
DETAILS OF TYPICAL SECTION OF 22 FT. SLAB

GENERAL NOTES:-
 Standard requirements for Super-elevation and widening of horizontal curves shall be as given on Standard Drawing S&P-17. No lip to be used on pavement where grade is less than 1% on tangents and 0.3% on super-elevated curves.
 In transitioning from one slope to another, a warped surface, presenting a smooth and uniform appearance, shall be constructed as directed by the Engineer.
 All information shown on these Typical Sections is for the purpose of indicating general design and construction details. Actual construction of roadway widths, slopes, depth and type of ditches, undergraded cuts and other features shall conform to the details shown on Cross-Section and Plan-Profile sheets or as directed by the Engineer.
 For details of Transverse Joints, Surface Drain Basins, Surface Drains, and Gate Type Drop Inlets, See Separate Sheets.

MISSOURI STATE HIGHWAY COMMISSION
REINFORCED
22 FT. PORTLAND CEMENT CONCRETE
PAVEMENT
40 FT. ROADBED
ROUTE 67 BUTLER COUNTY
PROJECTS FA 58-C1(2) & FA 513-C2(2)

FED. ROAD DIST. NO.	STATE	FED. AID FUND.	YEAR	SHEET NO.	TOTAL SHEETS
5	MO.				
BY NO.	COUNTY	ROUTE	SHEET NO.		
10			67		

7-12-32
RAP 58 C.C.T.S.



SECTION ON C OF CULVERT

Note:

Y = Minimum distance between top surface of pavement and top slab of concrete box, to be not less than 4". When Y is less than 4" modify culvert as shown on "Special Sheet - Design for Culverts using Top Slab for Riding Surface."

X = Minimum clearance between bottom of pavement slab and top of concrete box. When X is not less than 2" at any point over culvert use hand tamped earth cushion over box and omit reinforcing bars. When X is less than 2" increase thickness of pavement slab to meet top of culvert box and omit reinforcing steel as shown.

No extra compensation for this type of construction. Entire cost to be completely covered by contract price for Portland Cement Concrete Pavement per 3¢ yd.

SPECIAL REINFORCED CONCRETE PAVEMENT OVER CULVERTS

SHEET 102

7-12-32

50% Earthwork

STANDARDS

Revised
Surveyed
Sandy
Sheet

SURFACE-CURB & GUTTER
APPROACHES

DRAINAGE

C23CR C25GAE
C24R C25S AR
C24 C25R
C25R
C253AR
C255 AR
EIN
13C14-1
15D15-50
15E-14
C16R

440-22

BRIDGES

MISC.