5 MO.
7 DADE

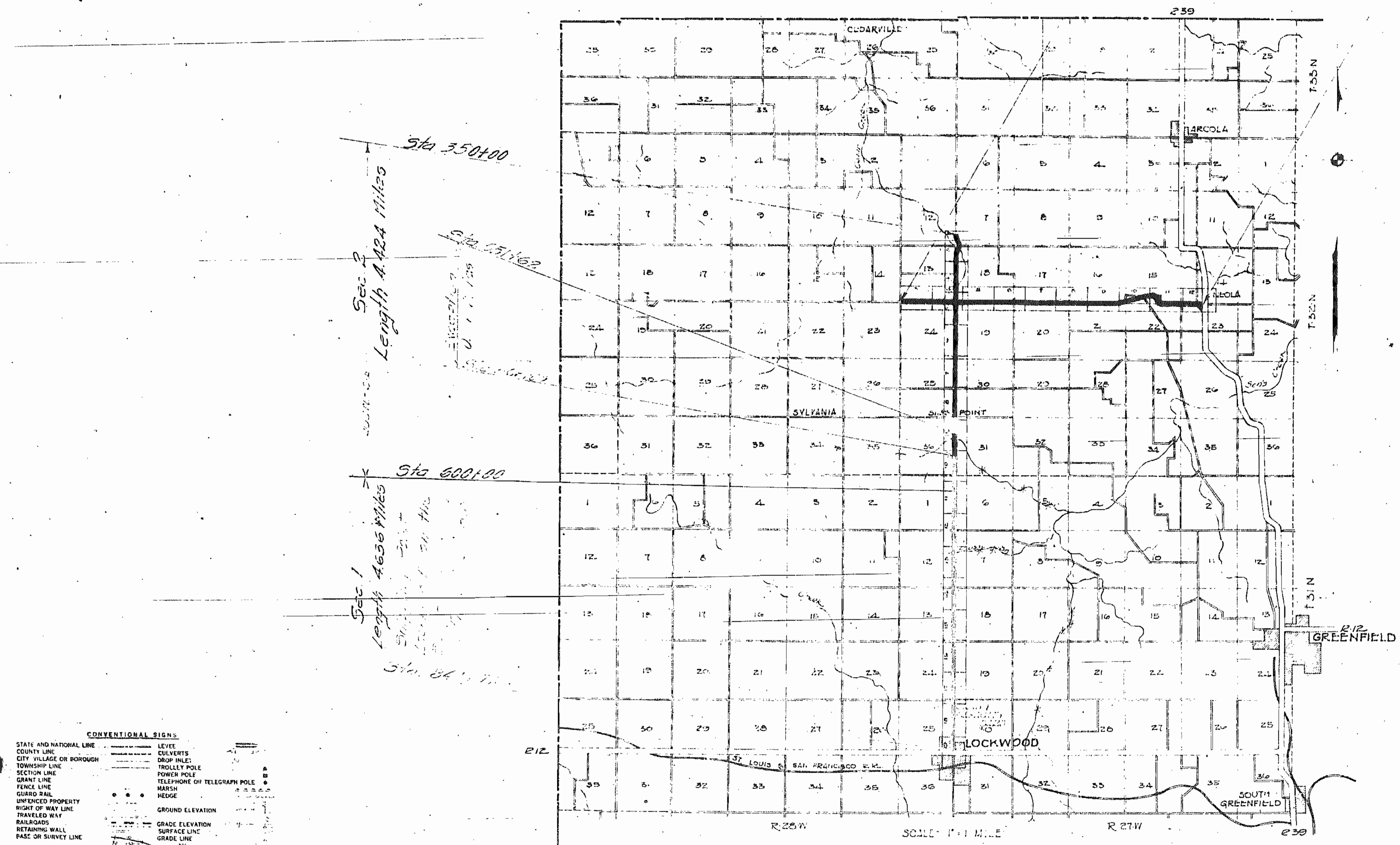
MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

DADE COUNTY

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

ROUTE 5E



198

SUBMITTED [redacted]
CHIEF ENGINEER MO. STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL [redacted]
DISTRICT ENGINEER - DISTRICT NO. 5

RECOMMENDED FOR APPROVAL [redacted]
CHIEF ENGINEER BUREAU PUBLIC ROADS

APPROVED [redacted]

Name of road *Lockwood - North*

Type of Improvement *24' Graded Earth - Gravel Surface*

MISSOURI STATE HIGHWAY COMMISSION

ESTIMATE SHEET

County of *DADE*

Length *5.737* Miles

FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.			2A	
DIV. NO.	COUNTY			ROUTE	SEC. NO.
7	DADE			S.A.	1

EXCAVATION

Station	Cl. "A"	Cl. "C"	Borrow	Overhaul	Mach. Grad.	Em.
524+50						
533+00					8.5	
535+20	80		96			360
547+00			150	475	12.0	
551+62	761	27	450			1405
Exception						
569+00						
582+00					13.0	
585+00	299					299
649+00		34			64.0	
654+00	11		2431			3104
669+00		12			15.0	
671+00	201					239
705+00					34.0	
710+00	1041					1010
720+00					10.0	
723+00	217	38				194
727+00					4.0	
733+00	1159					902
790+00					57.0	
795+00	393					357
844+77					51.77	
Sub Total	4162	118	3127	475	269.27	7870
Chan. Ch. 651+94	175					
Tail Ditch	296					
Side Road & Farm Ent.	54		297			
Total	4687	118	3424	475	269.27	7870

CLEARING

Sheet No.	No. Units
3	8
4	147
5	68
6	44
7	34
8	38
9	80
10	27
11	2
12	21
13	26
14	2
Total	497 = 11.4 Ac.

GRUBBING

Sheet No.	No. Units
3	7
4	124
5	48
6	28
7	28
8	31
9	86
10	13
11	3
12	8
13	1
14	0
Total	377 = 8.7 Ac.

HEDGE PULLING

Station	Station	Side	Lin. Ft.	Station	Station	Side	Lin. Ft.
579+90		Rt.	55	739+16		Rt.	20
579+90	589+20	Rt.	930	740+00	742+00	Lt.	200
590+75	596+00	Rt.	525	740+00	746+72	Rt.	672
596+45	596+70	Rt.	25	753+25	754+20	Lt.	95
672+00		Lt.	10	753+70	765+22	Rt.	1152
673+25	675+00	Lt.	175	759+40	761+26	Lt.	186
675+75	684+90	Lt.	915	784+71	791+66	Rt.	695
717+15	735+50	Rt.	1835	792+19	800+00	Rt.	781
717+38	719+95	Lt.	257	800+00	812+85	Rt.	1285
727+00	728+00	Lt.	100	815+60	827+20	Rt.	1160
735+50	737+40	Lt.	190				
737+72	737+92	Lt.	20	Total			11538
738+79	739+61	Rt.	82				
739+16	740+00	Rt.	84				= 115.38 (100 Ft.)
739+61	740+00	Lt.	39				
738+39		Lt.	50				

REINFORCED CONCRETE BOX CULVERTS

STATION	STANDARD	SIZE	LENGTH	CONCRETE	REINF.	EXCAV.	REMARKS
549+00	Special C-3310	10x6	35'	40.23	2868	80	30° Skew
707+55	Special C-338	8x4	28'	21.86	2284	40	
Total				62.09	5152	120	

REINFORCING STEEL LEFT ON HAND

549+00	(C.O. #6 Cor.)	1285

PIPE CULVERTS

Station	Side	15"	18"	24"	30"	36"	48"	Culv. Exc.	SR-FE Exc. "A"	SR-FE Borrow	Emb. included in balance	Remarks
524+72	℄			36'				13				
524+94	Rt.							6				Removal
534+16	℄						44'	34				
538+00	℄			38'				15				
539+90	Rt.	18'						1	3	1	5	F.E.
544+00	Lt.		18'					1		5	6	F.E.
570+68	Lt.	18'						2	4		5	F.E.
577+18	Rt.	18'						1		4	5	F.E.
577+27	Lt.	18'						1		4	5	F.E.
581+62	Rt.	18'						2		5	7	F.E.
583+57	℄			72'				16				Double
602+00	℄			36'				11				
606+03	Rt.		18'					1		5	6	F.E.
610+34	Lt.	18'						1		4	5	F.E.
623+08	Lt.	18'						1		6	7	F.E.
631+28	℄							6				Removal
631+79	℄					80'		42				Double
632+80	Rt.			30'				2		18	20	S.R.
632+73	Rt.							7				Removal
642+38	Lt.	18'						1		5	6	F.E.
658+71	Lt.	18'						1		7	8	F.E.
670+00	℄				80'			29				Double
675+00	Lt.	18'						1		8	9	F.E.
685+64	Rt.							2				Removal
685+67	Rt.		30'					2		23	25	S.R.
690+37	Rt.	18'						1		6	7	F.E.
698+29	Lt.		18'					3	2	4	9	F.E.
711+50	Lt.		18'					1		8	9	F.E.
721+90	Lt.	18'						1			10	F.E.
727+66	℄						84'	80				Double
731+04	Lt.							9				Removal
737+55	Rt.	18'						1	1	2	4	F.E.
740+87	℄			76'				27				Double
748+75	Rt.			20'				2		7	9	F.E.
748+80	Lt.		18'					1		6	7	F.E.
762+92	Lt.	18'						1		8	9	F.E.
765+33	Rt.	18'						2		5	7	S.R.
779+44	Lt.		18'					1		4	5	F.E.
782+20	℄		68'					12				Double
791+10	℄				40'			14				
791+57	℄			40'				15				
807+03	Lt.-Rt.		36'					2		12	14	F.E.
825+20	Rt.	18'						1		6	7	F.E.
Total		288	242	348	120	80	128	373	10	163	216	

CROWN SIDE ROAD AND FARM ENTRANCE

Station	Side	SR-FE Exc. "A"	SR-FE Borrow	Emb. included in balance	Remarks
524+50	Lt.	Included in X-sections			S.R.
524+94	Rt.	Included in X-sections			S.R.
525+21	Lt.		5	5	F.E.
536+10	Rt.	3	1	4	F.E.
551+62	Lt.	Included in X-sections			S.R.
551+62	Rt.	34	48	82	S.R.
579+28	Lt.	3	1	4	F.E.
~~579+70~~	~~Rt.~~	~~Included in X-sections~~			~~S.R.~~
601+85	Lt.		8	8	F.E.
616+57	Rt.-Lt.		13	13	F.E.
632+00	Lt.	Included in X-sections			S.R.
661+78	Rt.-Lt.	3	12	15	F.E.
685+08	Lt.	Included in X-sections			S.R.
687+25	Rt.-Lt.		12	12	F.E.
722+32	Rt.	1		4	F.E.
722+59	Lt.			6	F.E.
738+15	Lt.	Included in X-sections			S.R.
738+79	Rt.	Included in X-sections			S.R.
768+23	Rt.		9	9	F.E.
785+34	Rt.-Lt.		11	11	F.E.
791+30	Lt.	Included in X-sections			S.R.
791+95	Rt.	Included in X-sections			S.R.

LENGTH OF PROJECT

End of Project	Station	844+77.2	
Beginning of Project	Station	524+50	
Apparent Length		32027.2	Feet
Equations and Exceptions:			
End of Exception	Station	569+00	
Beginning of Exception	Station	551+62	
Length of Exception	Feet	1738	
Total Corrections		1738	Feet
Net Length of Project		30289.2	Feet
30289.2 Feet : 5280 =		5.737	Miles

GRAVEL SURFACE

Book No.	Cu. Yds.
1	199.00
2	195.50
3	193.50
4	192.00
5	192.50
6	198.75
7	198.50
8	195.50
9	198.00
10	199.50
11	200.00
12	200.00
13	200.00
14	200.00
15	200.00
16	76.25
Total	3039.00

GRAVEL STOCKPILE

Book No.	Cu. Yds.
1	195.0
2	197.0
3	184.0
Total	576.0

TAIL DITCH

Station	Side	Cu. Yds. Cl. "A"
549+00	Rt.	13
583+57	Rt.	30
602+00	Rt.	44
727+66	Lt.	129
782+20	Rt.	80
Total		296

CHANNEL CHANGE

Station	Side	Cu. Yds. Cl. "A"
651+94	Lt.	175
Total		175

PIPE CULVERT ON HAND

	15"	18"	18" Collar
	24'	30'	1
Total	24'	30'	1

SUMMARY

FINAL PLANS

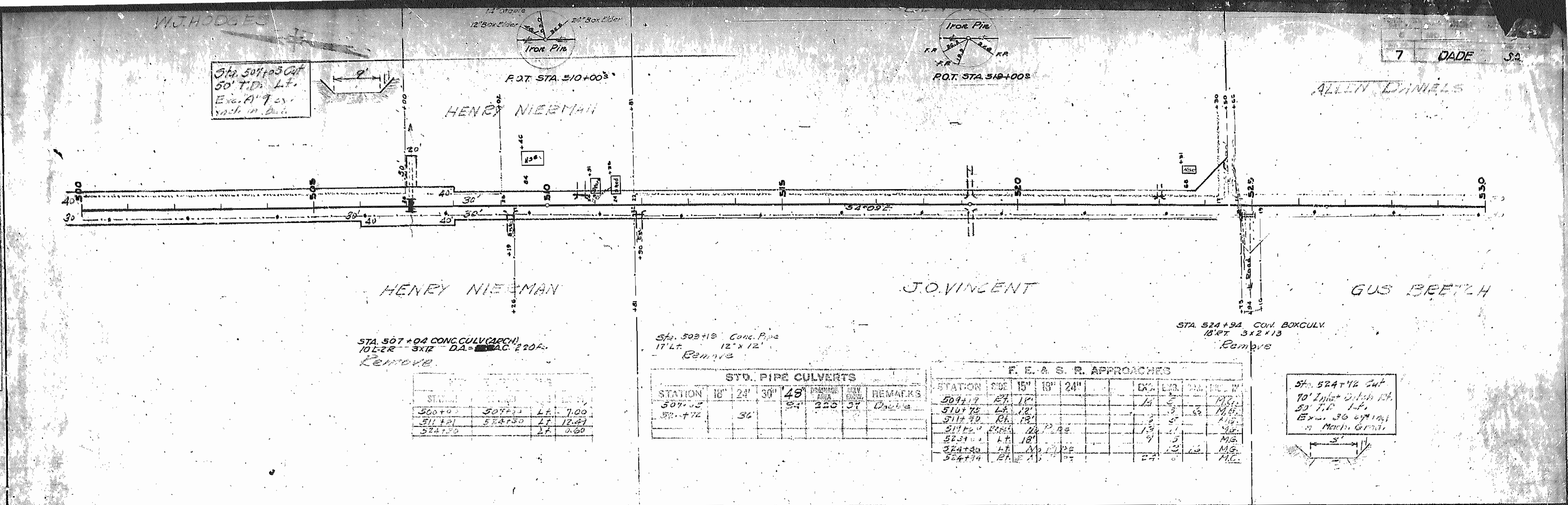
ITEM No.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY
1-a	Clearing	Acre	11.4	
1-b	Grubbing	"	8.7	
1-c	Hedge Pulling	100 ft.	115.38	
1-d	Class "A" Excavation	Cu. Yds.	4687	
1-f	Class "C" Excavation	" "	118	
1-i	Culvert Excavation	" "	493	
1-l	Borrow Excavation	" "	3424	
1-n	Machine Grading	Station	269.27	
14-i	Gravel Surface	Cu. Yds.	3039	
14-j	Gravel Stockpile	" "	576	
16-b	Class "B" Conc. Masonry	" "	62.09	
18-D	15" Pipe Culverts	Lin. Ft.	288	
18-D	18" Pipe Culverts	" "	242	
18-D	24" Pipe Culverts	" "	348	
18-D	30" Pipe Culverts	" "	120	
18-D	36" Pipe Culverts	" "	80	
18-D	48" Pipe Culverts	" "	128	
19-a	Reinf. for Conc. Structures	Lbs.	5152	
1-M	Overhaul C.O. #5-Blanket	Sta. Yds.	475	
18-	15" Pipe Culvert Left on Hand-C.O. #7-C	Lin. Ft.	24	
18-	18" Pipe Culvert Left on Hand C.O. #7-C	" "	30	
	18" Pipe Culv. Collar Left on Hand C.O. 7-C	Each	1	
19-a	Reinf. Steel Left on Hand C.O. #6-C	Lbs.	1285	

BRIDGE-STA. 651+94 BR. DWG. NO. 5-194

ITEM No.	DESCRIPTION	UNIT	TOTAL UNITS
1 I	Culvert Excavation	Cu. Yds.	318.5
16-B	Class "B" Concrete	" "	88.9
19-A	Reinf. for Conc. Structures	Lbs.	9140
37-A	Removal Old Bridge	Lump Sum	1
39-A	Gas Pipe for Bridge Rail	Lin. Ft.	152
	Drilling Test Holes C.O. #3	Force Acct.	16.50

GRAVEL STOCKPILE

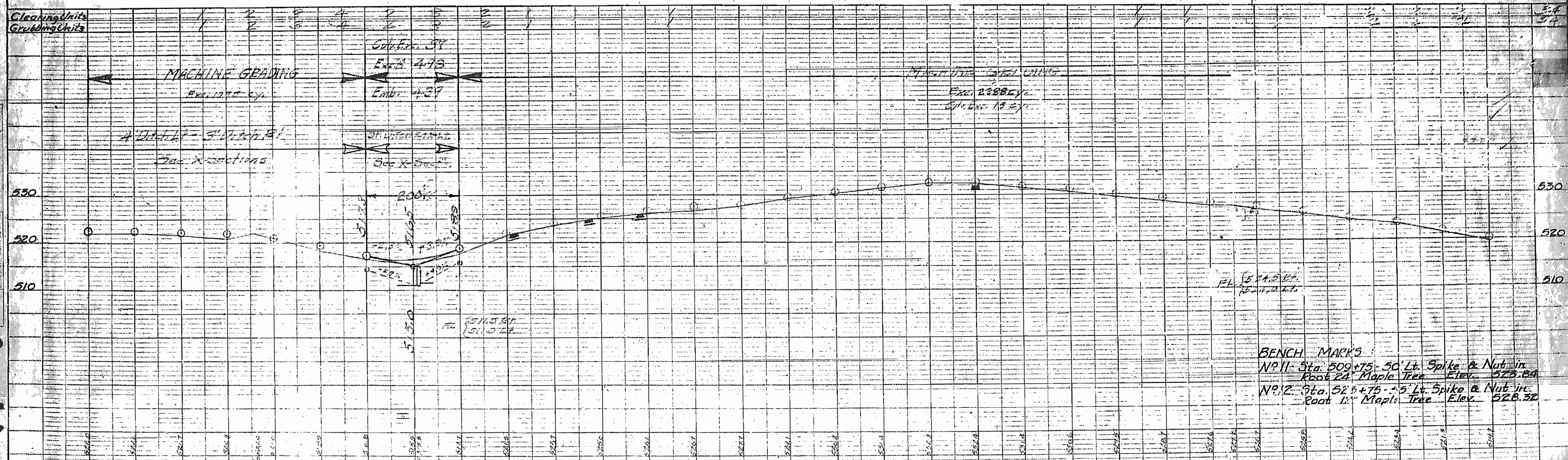
Book No.	STA.	Side	Amount	Total
1	616+50	RT.	50	
1	637+50	RT.	44.5	
1	662+00	RT.	48.5	
1	687+00	RT.	52	195
2	689+00	RT.	6	
2	722+00	RT.	75	
2	769+00	RT.	62	
2	786+00	RT.	26	
2	795+00	RT.	28	197
3	795+00	RT.	12	
3	828+00	LT.	60	
3	536+00	RT.	52	
3	579+00	LT.	60	184
			Total	576

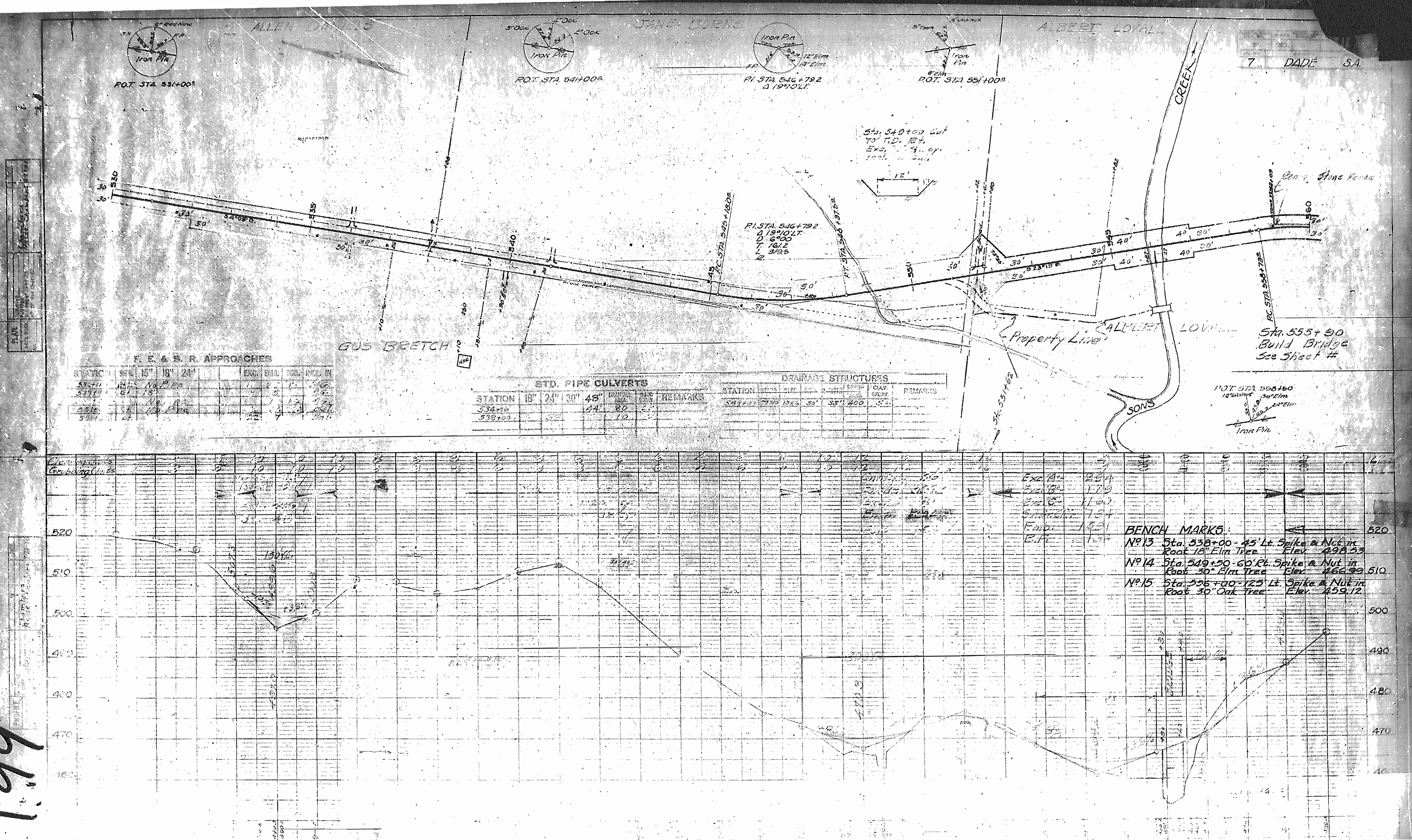


Station			
500+00	507+30	Lt.	7.00
511+21	524+30	Lt.	12.49
524+30		Lt.	0.60

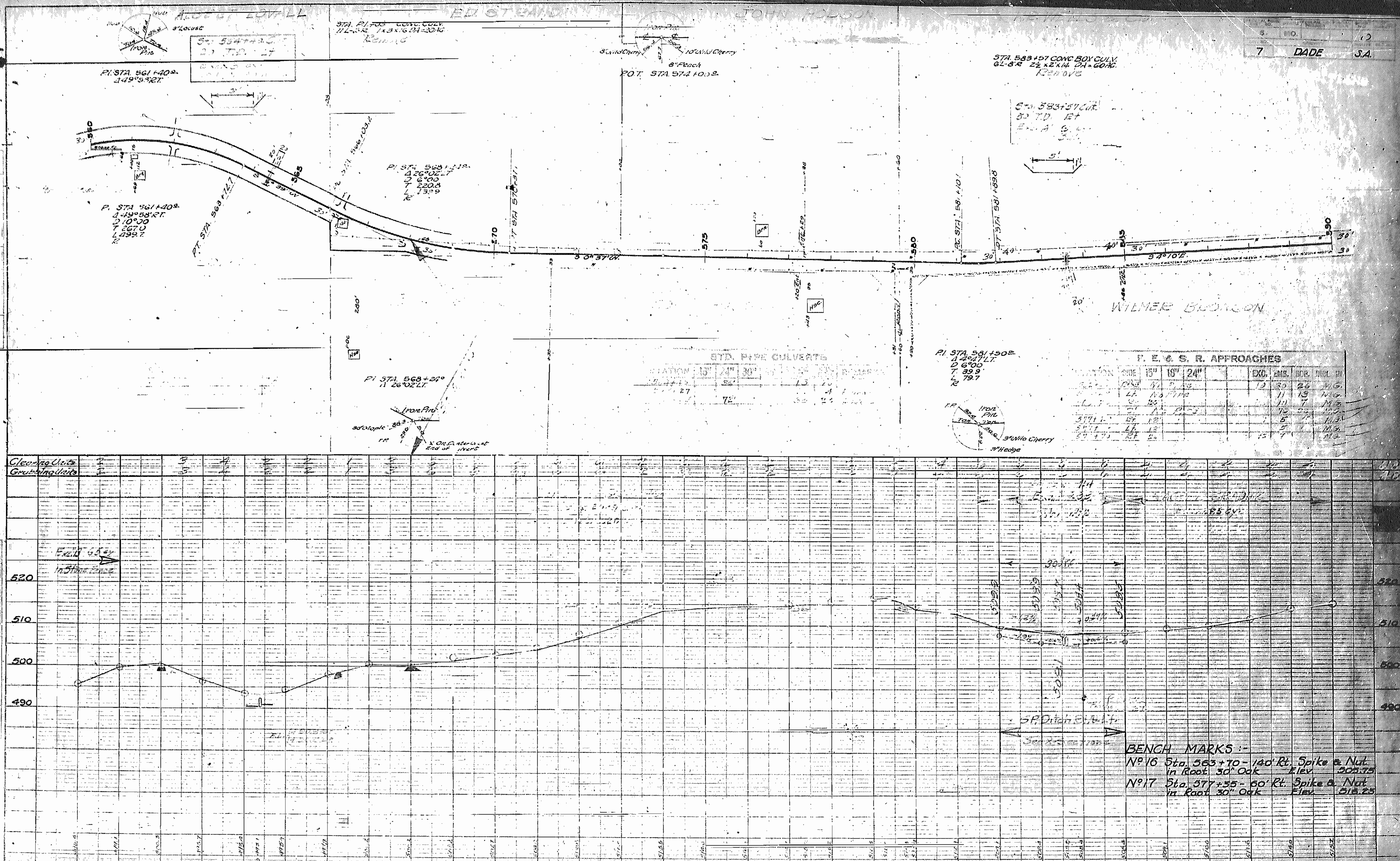
STD. PIPE CULVERTS							
STATION	18"	24"	30"	48"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
507+05				94'	220	37	Double
52[illegible]+72		36'					

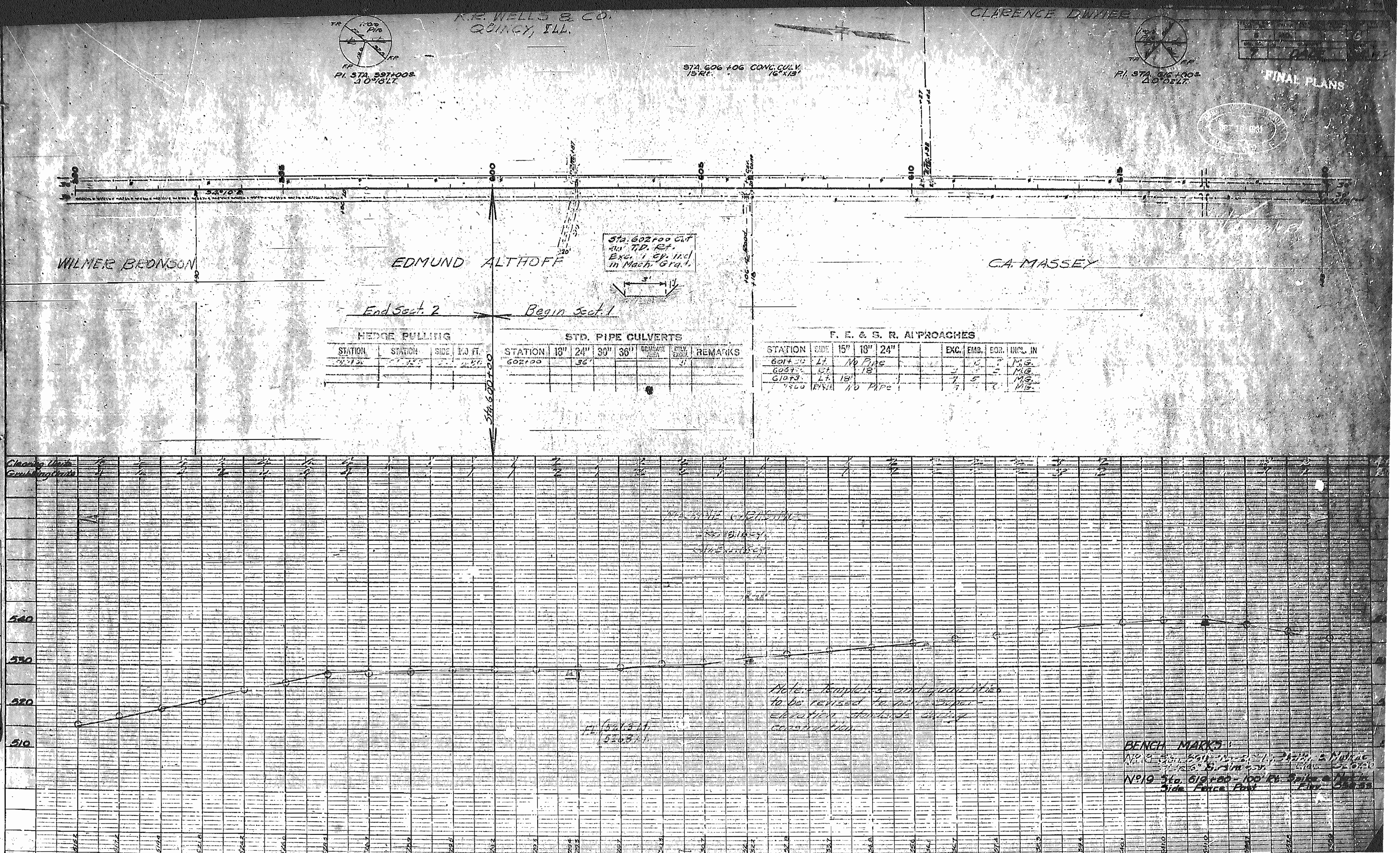
F. E. & S. R. APPROACHES										
STATION	SIDE	15"	18"	24"			EXC.	EMB.	[illegible]	[illegible]
509+19	Rt.	18'					14	5		M.G.
510+75	Lt.	12'						5	6	M.G.
511+90	Rt.	18'					6	5		M.G.
519+50	Both	No Pipe					13	11		M.G.
523+[illegible]	Lt.	18'					9	5		M.G.
524+30	Lt.	No Pipe						13	16	M.G.
524+94	Rt.	[illegible]					24	0		M.C.





7 DADE S.A.
ALLEN DANIELS
JANE BURNS
ALBERT LOVALL
Iron Pin
P.O.T. STA. 531+00⁰
P.O.T. STA. 541+00⁰
P.I. STA. 546+79.2
Δ 19°10' LT.
P.O.T. STA. 551+00⁰
CREEK
Sta. 549+00 Cut
12'
P.I. STA. 546+79.2
Δ 19°10' LT.
D. 6°00'
T. 161.2
L. 319.5
P.C. STA. 543+18.0⁰
P.C. STA. 558+73⁵
Remove Stone Fence
Property Line
ALBERT LOVALL
Sta. 555+90
Build Bridge
See Sheet #
GUS BEETCH
SONS
P.O.T. STA. 558+60
Iron Pin
F. E. & S. R. APPROACHES
STD. PIPE CULVERTS
STATION
REMARKS
534+46
538+00
DRAINAGE STRUCTURES
Clearing Units
Grubbing Units
Exc. "A"
Exc. "B"
Exc. "C"
BENCH MARKS:
Nº 13 Sta. 538+00 - 45' Lt. Spike & Nut in Root 18" Elm Tree Elev. 498.53
Nº 14 Sta. 549+50 - 60' Rt. Spike & Nut in Root 30" Elm Tree Elev. 466.99
Nº 15 Sta. 556+00 - 125' Lt. Spike & Nut in Root 30" Oak Tree Elev. 459.12
520
510
500
490
480
470
PLAN
PROFILE
199


7 DADE S.A.
ED. ST. ...
JOHN HOBSON
WILMER BURTON
8" Locust
Iron Pin
P.I. STA. 561+40±
Δ 49°58' RT.
STA. P.I. 568 CONC. CULV.
Remove
8" Wild Cherry
10" Wild Cherry
8" Peach
P.O.T. STA. 574+00±
STA. 583+57 CONC. BOX CULV.
Remove
P.I. STA. 561+40±
Δ 49°58' RT.
D 10°00'
T 267.0
L 499.7
R
PT. STA. 563+12.7
P.I. STA. 568+14±
Δ 26°02' LT.
D 6°00'
T 220.8
L 133.9
R
PT. STA. 570+31.1
PC. STA. 581+10.1
PT. STA. 581+89.8
P.I. STA. 568+24°
Δ 26°02' LT.
P.I. STA. 581+50±
Δ 4°47' LT.
D 6°00'
T 39.9
L 79.7
R
Iron Pin
X On Centerline at End of Invert
3" Wild Cherry
3" Hedge
560
565
570
575
580
585
590
STD. PIPE CULVERTS
F. E. & S. R. APPROACHES
Clearing Units
Grubbing Units
520
510
500
490
BENCH MARKS :-
Nº 16 Sta. 563+70 - 140' Rt. Spike & Nut in Root 30" Oak Elev. 505.75
Nº 17 Sta. 577+55 - 60' Rt. Spike & Nut in Root 30" Oak Elev. 518.25



HEDGE PULLING

STATION	STATION	SIDE	LIN. FT.
[illegible]	[illegible]	[illegible]	[illegible]

STD. PIPE CULVERTS

STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
602+00		36'				[illegible]	

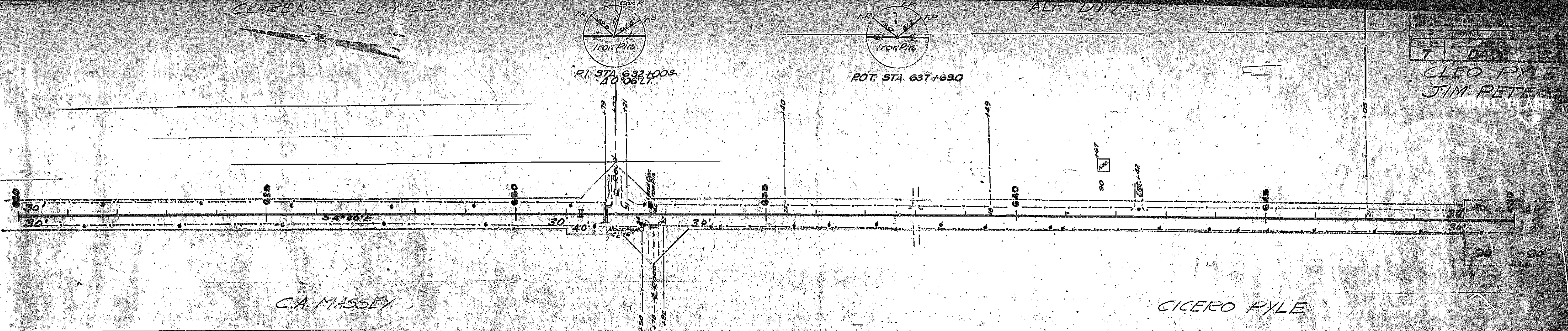
F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
601+[illegible]	Lt.	No Pipe						[illegible]	[illegible]	M.G.
606+[illegible]	Lt.		18'				3	[illegible]	[illegible]	M.G.
610+3[illegible]	Lt.	18'					7	5		M.G.
[illegible]	R&L	No Pipe					7		[illegible]	M.G.

7 DADE

CLEO PYLE
JIM PETERSON

FINAL PLANS



STA. 631+28 CONC. BOX CULV. 9L-52 3'x2½'x14' DA=120 AC. Remove

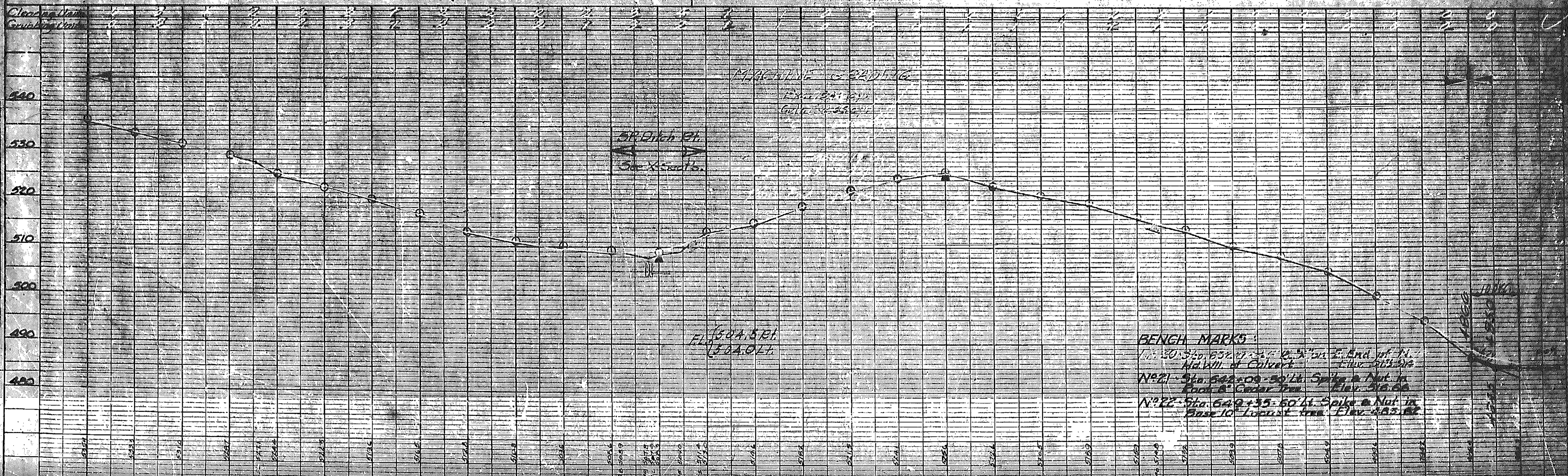
STA. 632+73 CONC. BOX CULV. 21' Rt. 3'x2½'x16' Remove

STD. PIPE CULVERTS

STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
631+28						[illegible]	Removal
631+79				80'	120	[illegible]	Double

F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
632+00	Lt.	No Pipe						16	19	M.G.
632+73	Rt.			32'			13	[illegible]	[illegible]	M.G.
63[illegible]	Rt.&Lt.	No Pipe					3			M.G.
642+[illegible]	Lt.	18'					5	5		M.G.



BENCH MARKS:

No. 20 Sta. 632+[illegible] [illegible] on E. End of N. Hdwll. of Culvert Elev. [illegible]

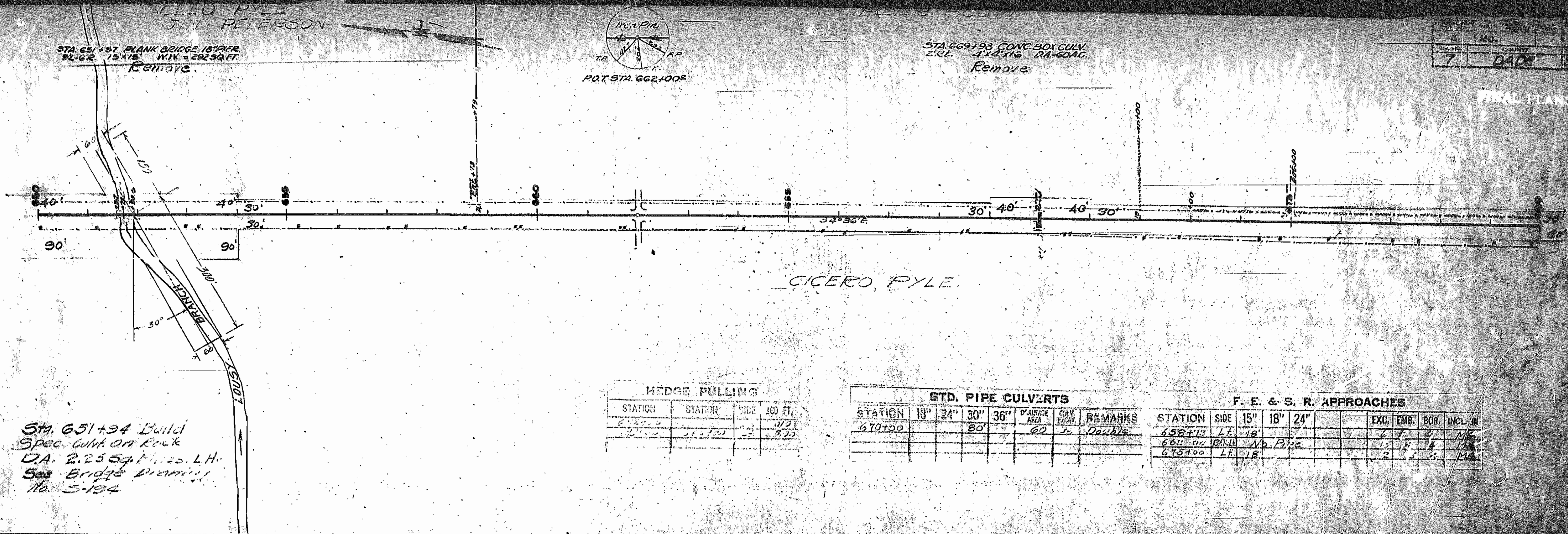
No. 21 - Sta. 642+09 - 60' Lt. Spike & Nut in Root 8" Cedar Tree Elev. 516.66

No. 22 - Sta. 649+35 - 60' Lt. Spike & Nut in Base 10" Locust tree Elev. 485.82

202

6	MO.			3	
7	DADE			9.A.	1

FINAL PLANS



HEDGE PULLING

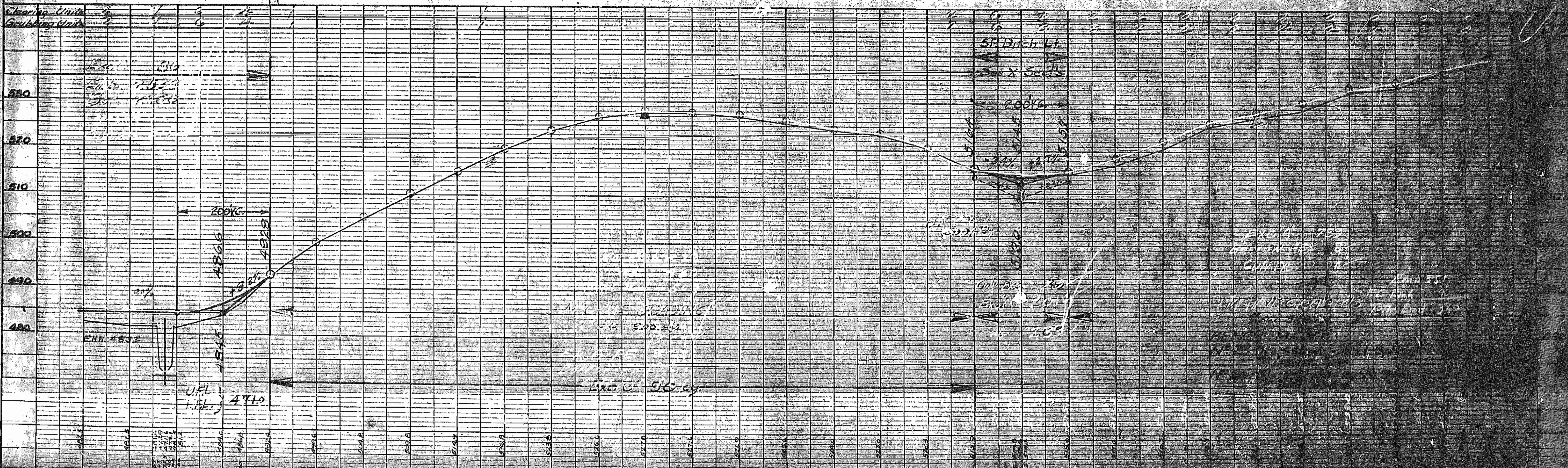
STATION	STATION	SIDE	LIN. FT.
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

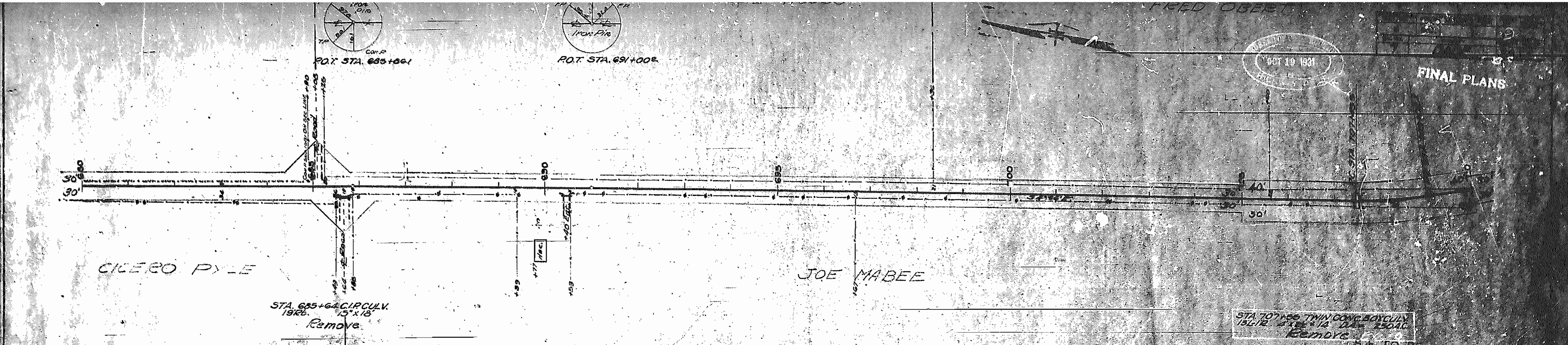
STD. PIPE CULVERTS

STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. [illegible]	REMARKS
670+00			80'		60	32	Double

F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
658+13	LT.	18'					6	[illegible]	[illegible]	M.E.
661+[illegible]	B.A.H.	No Pipe					[illegible]	[illegible]	4	M.E.
675+00	LT.	18'					2	[illegible]	3	M.E.





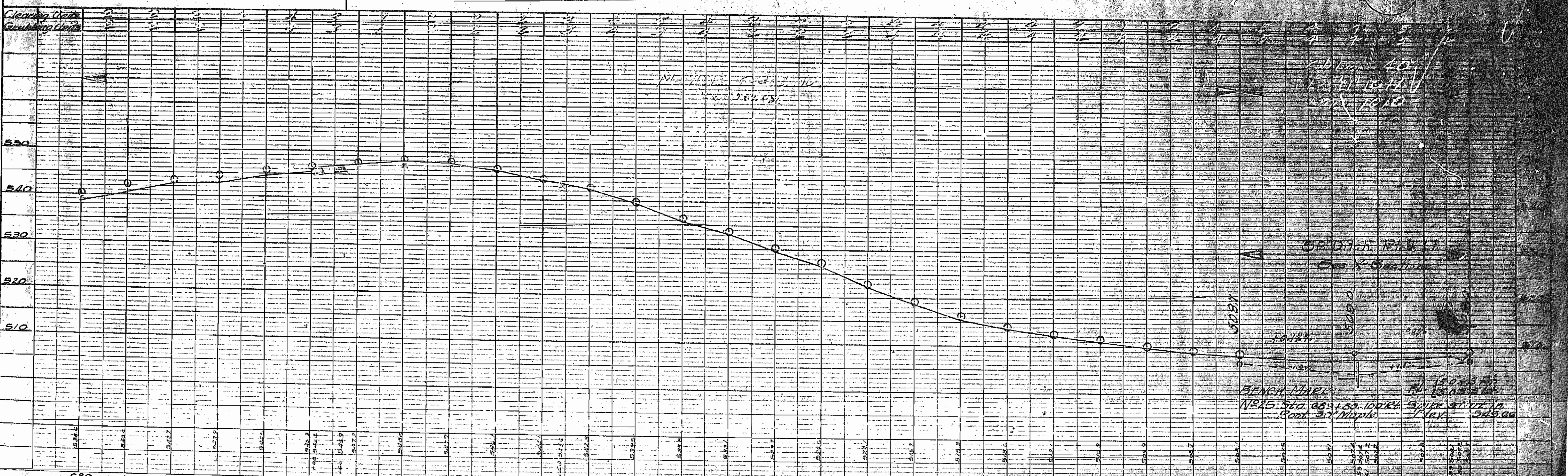
STATION	[illegible]	[illegible]	FT.
680+00	684+10	Lt.	4.90

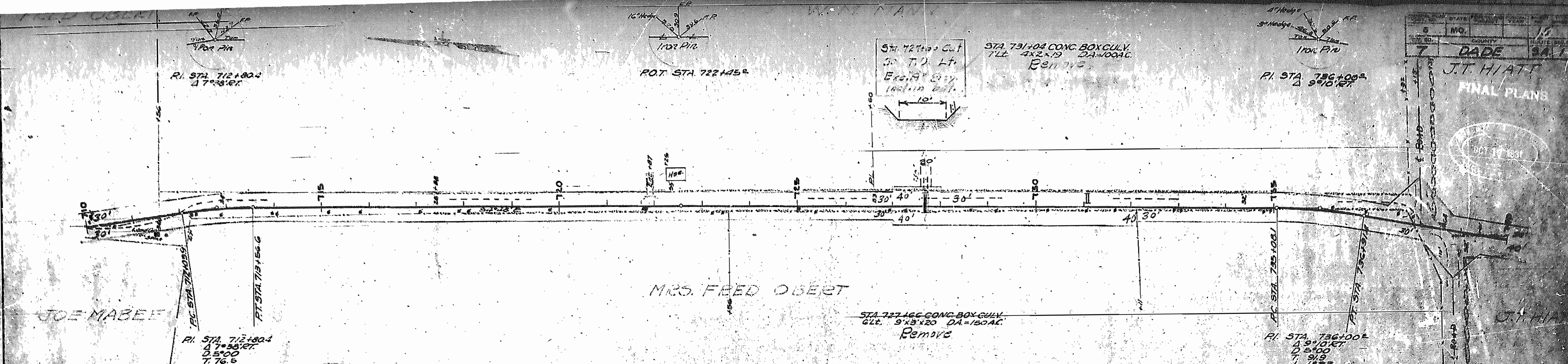
F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BCR.	INCL. IN
685+08	Lt.	No Pipe					[illegible]	8		M.G.
685+64	Rt.		30'				[illegible]	10		M.G.
689+00	Lt.	No Pipe					[illegible]	5		M.G.
690+00	Rt.	18'					12	5		M.G.

DRAINAGE STRUCTURES

STATION	STAND	SIZE	SKEW	LENGTH	AREA	CULV. EXCAV.	REMARKS
707+55	C339	8x4		28	250	44	Special See Sheet No. A





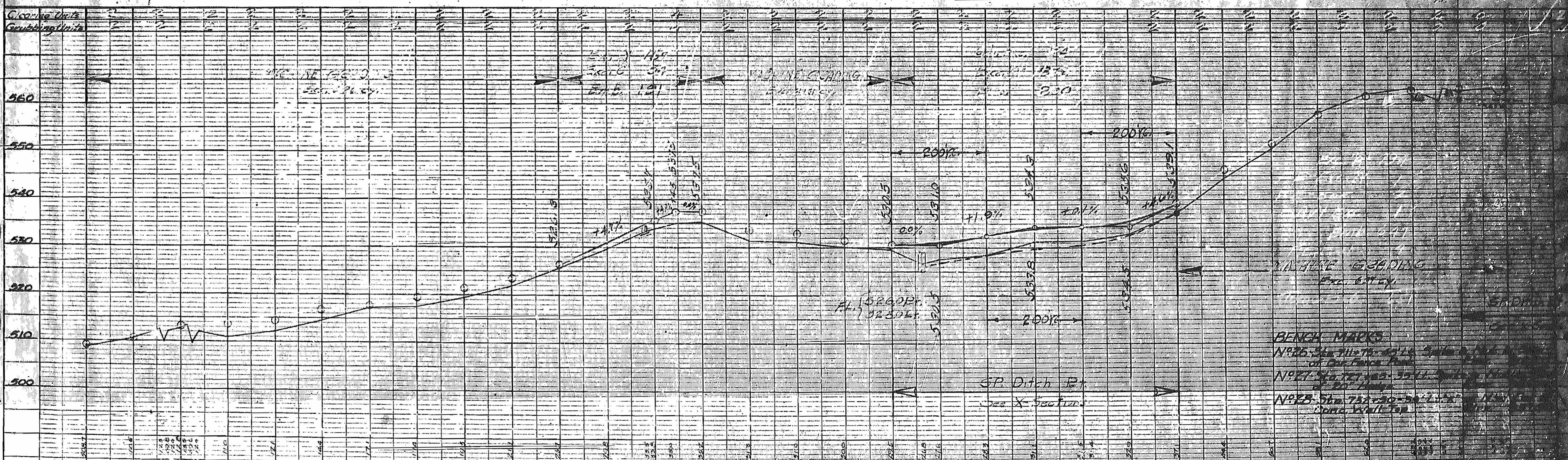
STATION	[illegible]	[illegible]	[illegible]
717+5?	735+50	Rt.	18.2
717+38	[illegible]	Lt.	[illegible]
727+00	728+00	Lt.	1.00
735+50	737+72	Lt.	2.42
737+72	737+92	L.	0.20
738+71	739+61	Rt.	0.92
739+16	740+00	Rt.	0.84
739+61	740+00	Lt.	0.39
738+34		Lt.	0.50
737+16		Rt.	0.20

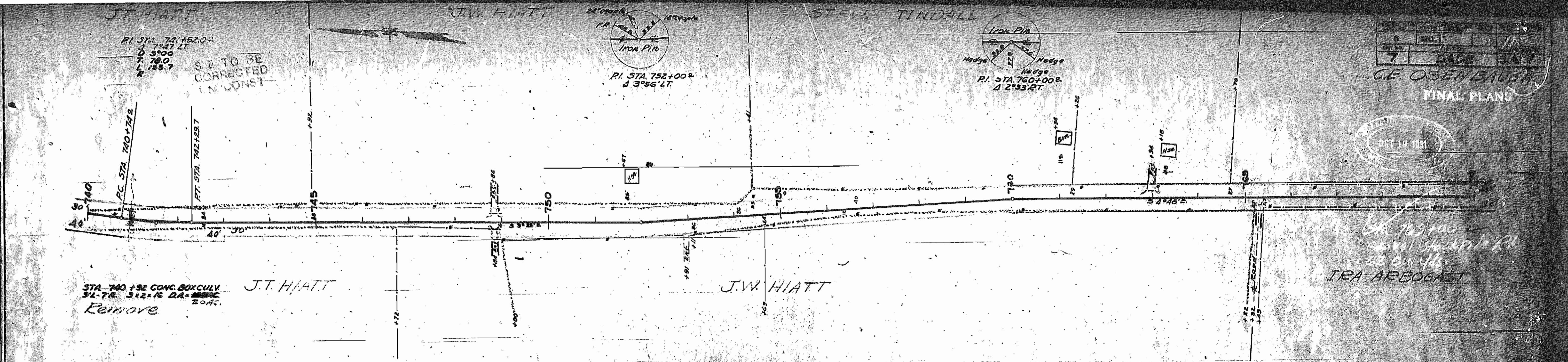
F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
721+?	Lt.	18'						10		Bal.
738+15	Lt.	No	Pipe					17	20	M.G.
738+79	Rt.	No	Pipe				4	2	7	M.G.

STD. PIPE CULVERTS

STATION	18"	24"	30"	48"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
727+66						22	Removal
727+66				24'	220	40	Double
731+04						[illegible]	Removal





STATION	STATION	SIDE	[illegible] FT.
740+00	742+20	Lt.	2.00
740+00	746+72	Rt.	6.72
753+20	754+20	Lt.	0.9"
753+70	765+22	Rt.	11.52
751+40	761+26	Lt.	1.86

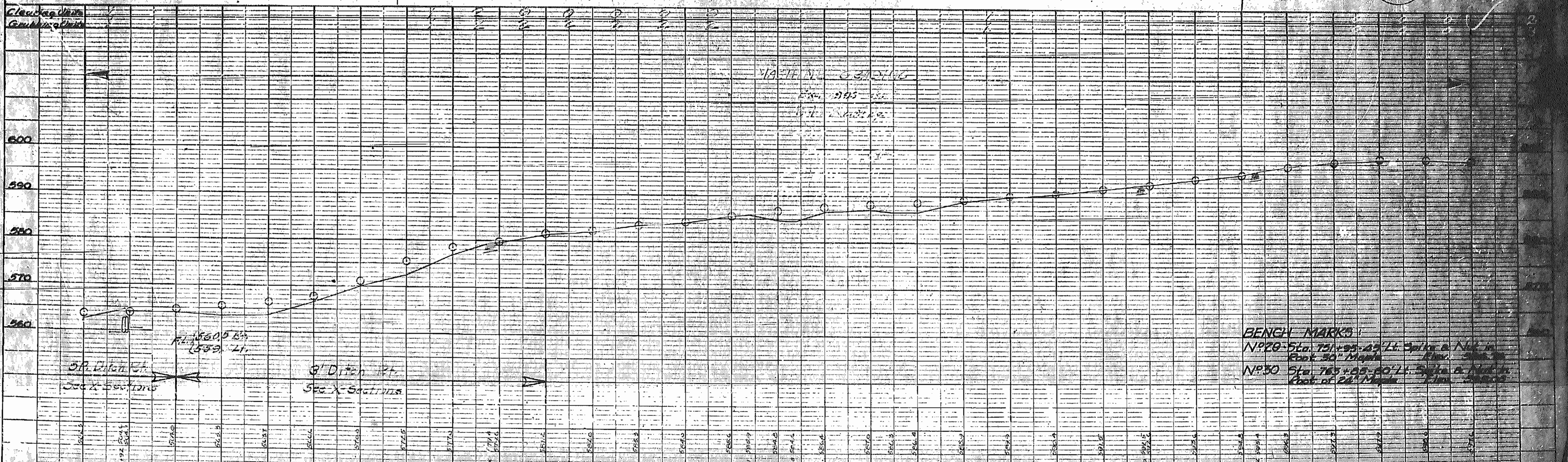
STD. PIPE CULVERTS

STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
740+92		76'			2.2	.7	Double

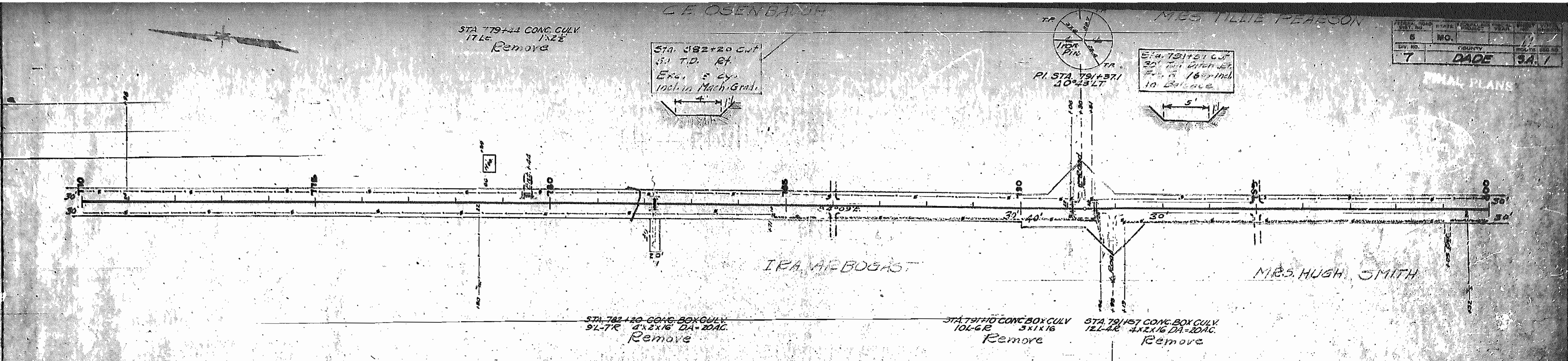
F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
748+62	Rt.			20'			3		10	M.G.
748+84	Lt.		18				10	5		M.G.
762+94	Lt.	18					12	7		M.G.
765+32	Rt.	18					2			M.G.

P.I. STA. 741+52
Δ 7°27' LT.



BENCH MARKS:
No. 29 - Sta. 751+95 - 45' Lt. Spike & Nail in Root 30" Maple
No. 30 - Sta. 763+85 - 60' Lt. Spike & Nail in Root of 24" Maple



HEDGE PULLING

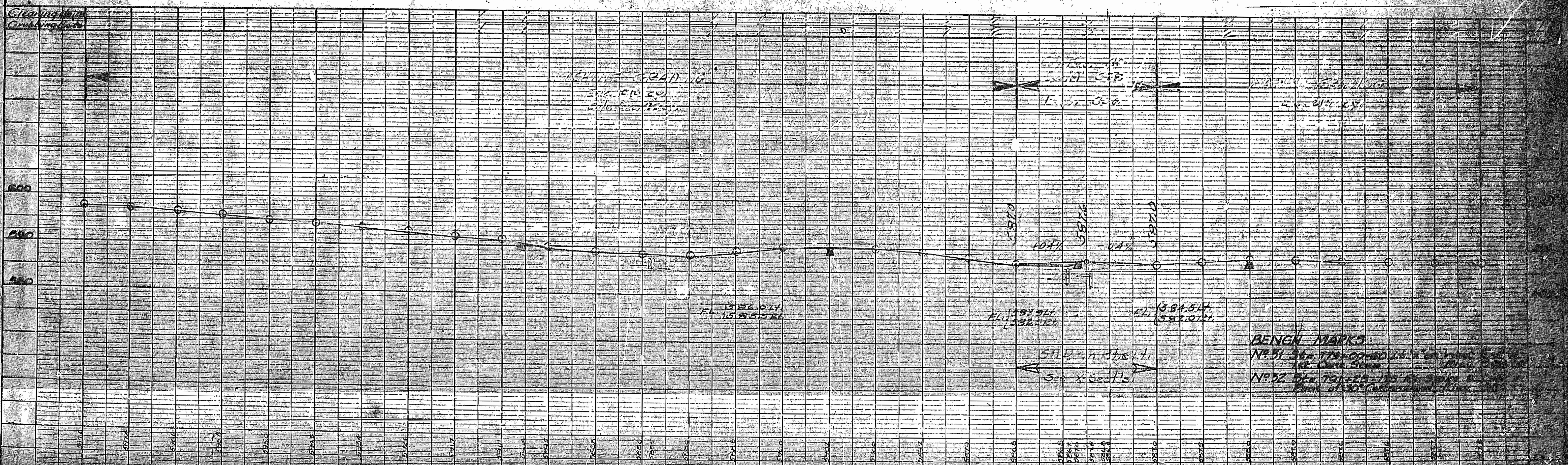
STATION	STATION	SIDE	100 FT.
784+71	791+06	Rt.	6.45
792+19	800+00	Rt.	7.81

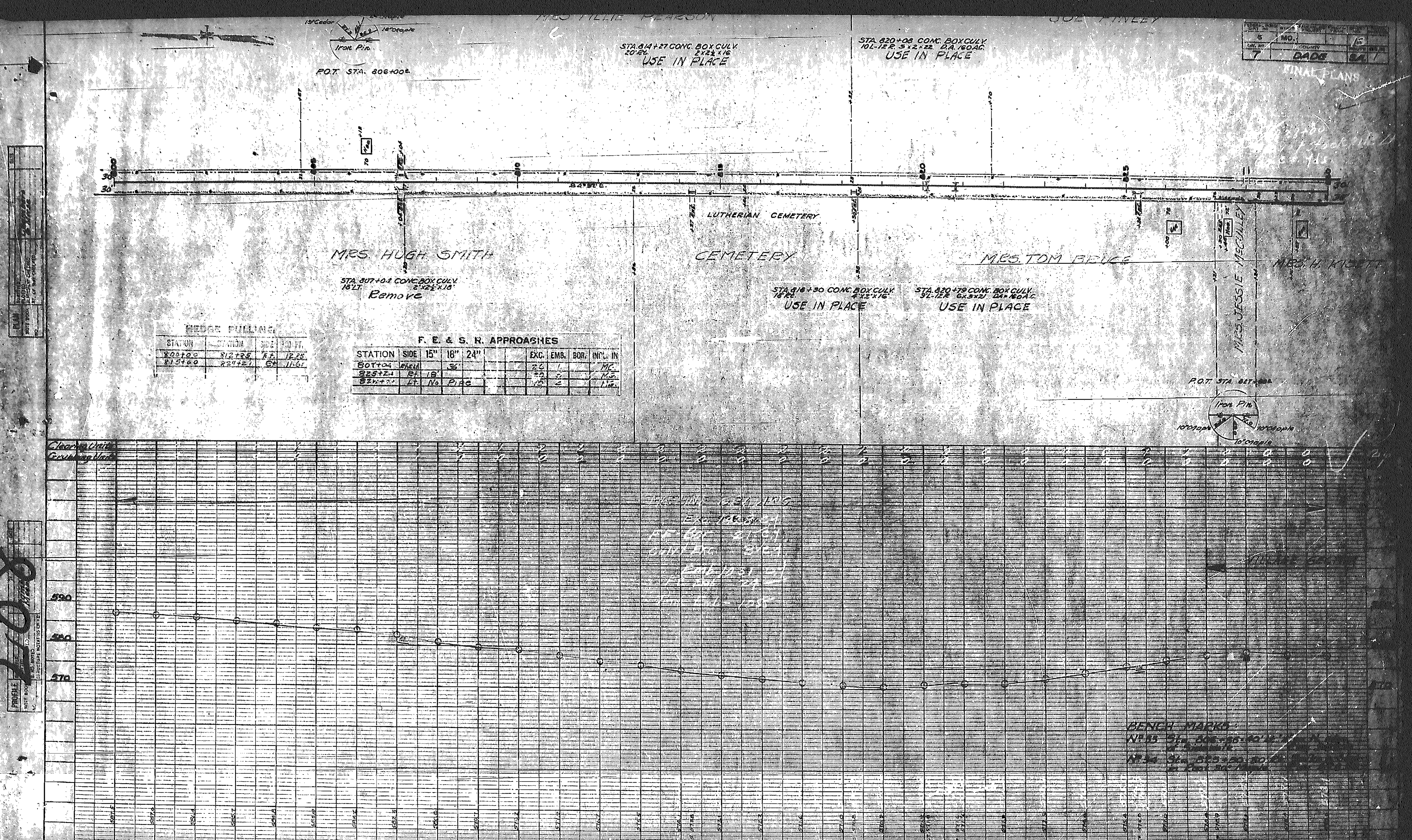
STD. PIPE CULVERTS

STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
782+20	68				20	[illegible]	Double
791+10			40'		[illegible]	[illegible]	
791+57		40'			20	9	

F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
779+44	Lt.		18'				8	5		M.G.
780+02	Rt. & Lt.	No Pipe					15			M.G.
791+50	Lt.	No Pipe						12		Bal.
791+95	Rt.	No Pipe						[illegible]		Bal.
[illegible]	[illegible]	[illegible]					[illegible]	[illegible]		M.G.



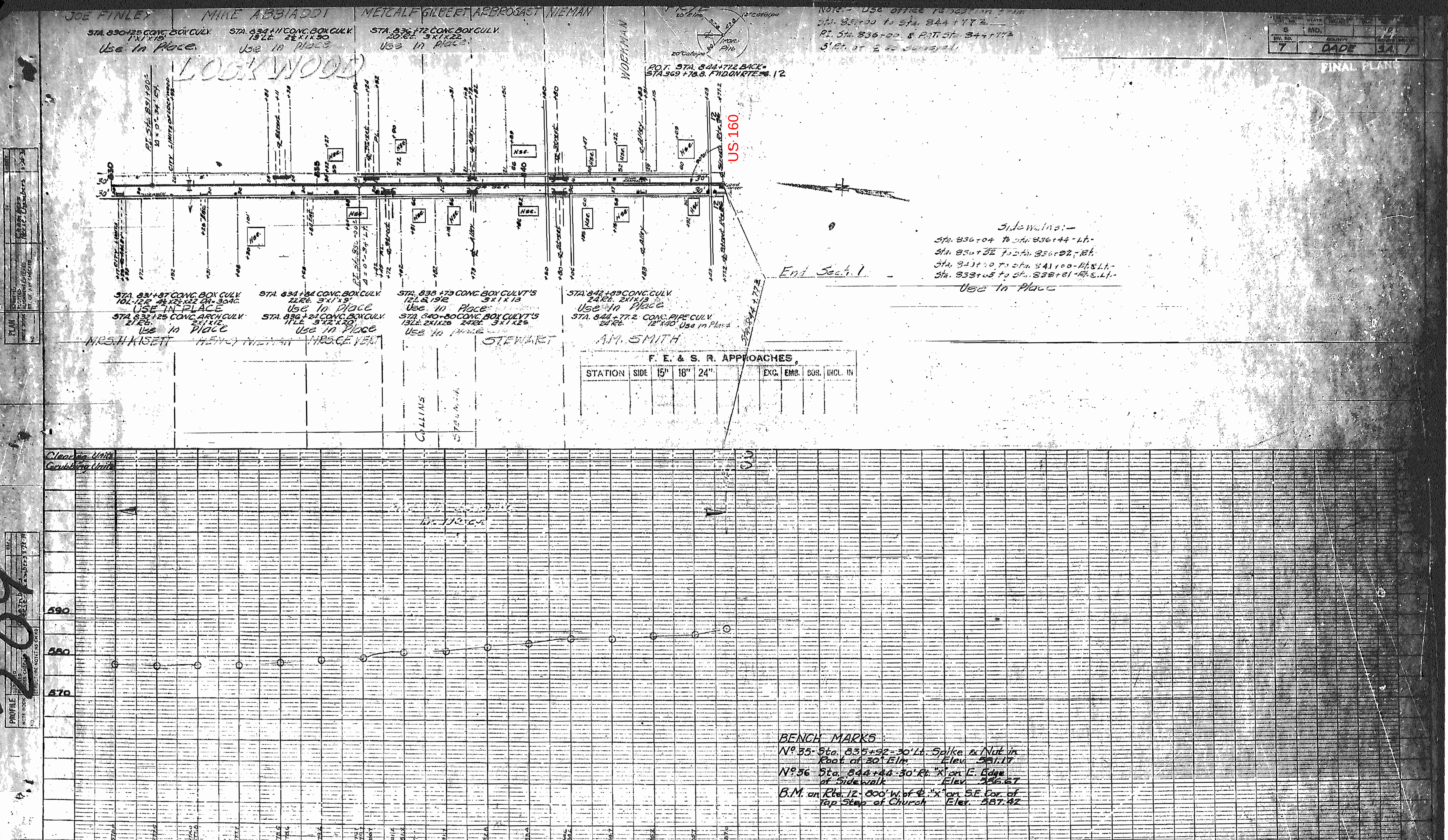


HEDGE PULLING

STATION	STATION	SIDE	100 FT.
800+00	812+25	Rt.	12.25
815+60	827+21	Rt.	11.61

F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
807+04	Both		36'				26	1		MC.
825+24	Rt.	18'					[illegible]	5		M.S.
82[illegible]	Lt.	No	Pipe				15	2		[illegible]



7 | DADE | 34
FINAL PLANS
JOE FINLEY
MIKE ABBIADDI
METCALF
GILBERT
ARBROGAST
NIEMAN
WORKMAN
LOCKWOOD
STA. 830+25 CONC. BOX CULV. 1'x1'x19' Use In Place
STA. 834+11 CONC. BOX CULV. 13 Lt. 2½'x1'x30 Use In Place
STA. 836+72 CONC. BOX CULV. 20 Lt. 3'x1'x22 Use In Place
P.O.T. STA. 844+77.2 BACK = STA. 369+78.8 FWD ON RTE. 12
US 160
P.I. Sta. 831+00 Δ = 0°-34' Rt.
City Limits of Lockwood
Sidewalks:-
Sta. 836+04 to Sta. 836+44 - Lt.
Sta. 836+32 to Sta. 836+92 - Rt.
Sta. 841+00 to Sta. 841+00 - Rt. & Lt.
Sta. 833+65 to Sta. 838+81 - Rt. & Lt.
Use In Place
End Sect. 1
STA. 831+87 CONC. BOX CULV. 10 Lt.-12 Rt. 4½'x2½'x22 DA.=30 AC. USE IN PLACE
STA. 832+25 CONC. ARCH CULV. 21 Rt. 2'x1'x12 Use In Place
STA. 834+84 CONC. BOX CULV. 22 Rt. 3'x1'x9' Use In Place
STA. 836+24 CONC. BOX CULV. 11 Lt. 3'x2'x20' Use In Place
STA. 838+73 CONC. BOX CULVT'S 12 Lt. & 19 Rt. 3'x1'x13 Use In Place
STA. 840+80 CONC. BOX CULVT'S 13 Lt. 2'x1'x26 24 Rt. 3'x1'x25 Use In Place
STA. 842+83 CONC. CULV. 24 Rt. 2'x1'x13 Use In Place
STA. 844+77.2 CONC. PIPE CULV. 24 Rt. 12"x40' Use In Place
MRS. H KISETT
HENRY NIEMAN
MRS. C.E. VENT
COLLINS
STEWART
A.M. SMITH
Sta. 844+77.2
F. E. & S. R. APPROACHES
STATION | SIDE | 15" | 18" | 24" | EXC. | EMB. | SOS. | INCL. IN
Clearing Units
Grubbing Units
590
580
570
PLAN
PROFILE
BENCH MARKS:
Nº 35 - Sta. 835+92 - 30' Lt. Spike & Nut in Root of 30" Elm Elev. 581.17
Nº 36 Sta. 844+44 - 30' Rt. "X" on E. Edge of Sidewalk Elev. 586.67
B.M. on Rte. 12 - 800' W. of ℄ "X" on S.E. Cor. of Top Step of Church Elev. 587.42

TYP SEC. + Earthwork
G8B-30

STANDARDS

Route A
Sec. ~~Proj~~ 1
County DAde
Sheet # 18

SURFACE-CURB + GUTTER
APPROACHES

DRAINAGE

BRIDGES

CONC.-REINF.-APPURTS,
FINISH ETC.

MISC.

FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

213

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

~~FEDERAL AID PROJECT~~

DADE COUNTY

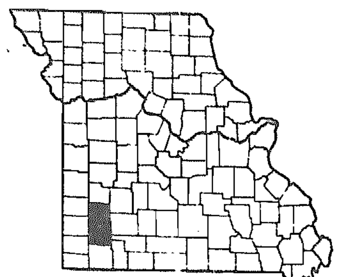
LAWRENCE COUNTY

COUNTY
DADE - LAWRENCE
STATE ROUTE NO.
B (97)
PROJECT NO.
~~C029-B(2)~~
~~C029-B(3)~~

FINAL PLANS

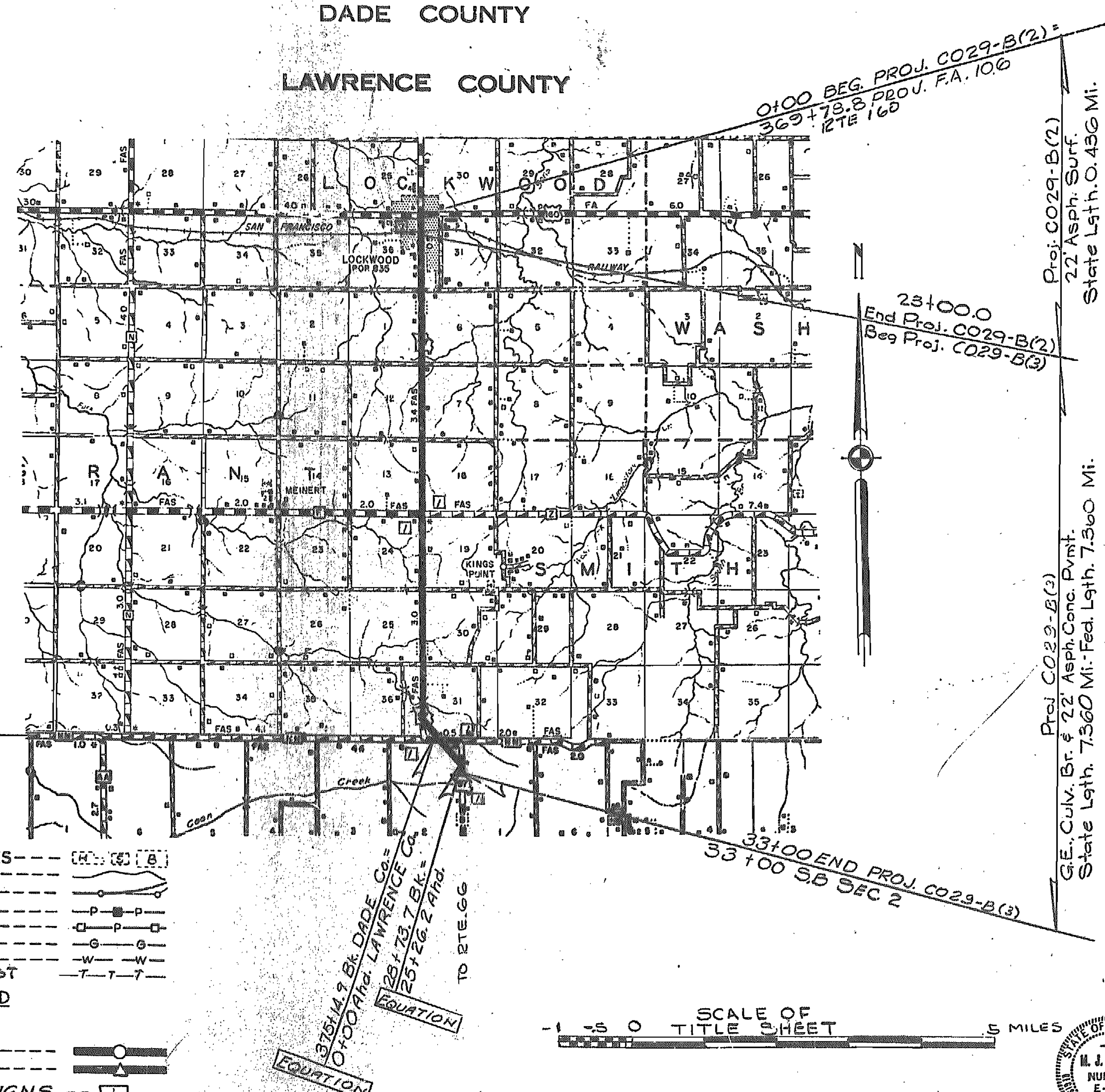
C029-B(2) & (3)

INDEX OF SHEETS



DESIGN DESIGNATION

A.D.T. (1968) = 2150 IN Lockwood
A.D.T. (1988) = 3180 IN Lockwood
D.H.V. (1988) = 318
D=50%
T= %
V=60m.p.h. STA. 28 TON



SCALE OF TITLE SHEET
1 .5 0 5 MILES

CONVENTIONAL SYMBOLS

STATE LINE
COUNTY LINE
CITY LIMITS
TOWNSHIP OR RANGE LINE
OTHER LAND SURVEY LINES
FENCE LINE
GUARD RAIL
PROPERTY LINE
RIGHT OF WAY LINE
RIGHT OF WAY MARKER
RAILROAD
SURVEY CENTER-LINE
CULVERT
OVERHEAD TELEPHONE NEW
OVERHEAD TELEPHONE EXIST
EXISTING BUILDINGS & STRUCTURES
GROUND LINE
GRADE LINE
OVERHEAD POWER-EXIST
OVERHEAD POWER-NEW
UNDERGROUND GAS-NEW
UNDERGROUND WATER-EXIST
UNDERGROUND TELEPHONE-EXIST

TITLE SHEET LEGEND

INTERCHANGE
GRADE SEPARATION
PROJECT INFORMATION SIGNS

STATE OF MISSOURI
M. J. SNIDER
NUMBER
E-623
REGISTERED PROFESSIONAL ENGINEER

SUBMITTED BY DATE

CHIEF ENGINEER
MISSOURI STATE HIGHWAY COMMISSION

U S DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

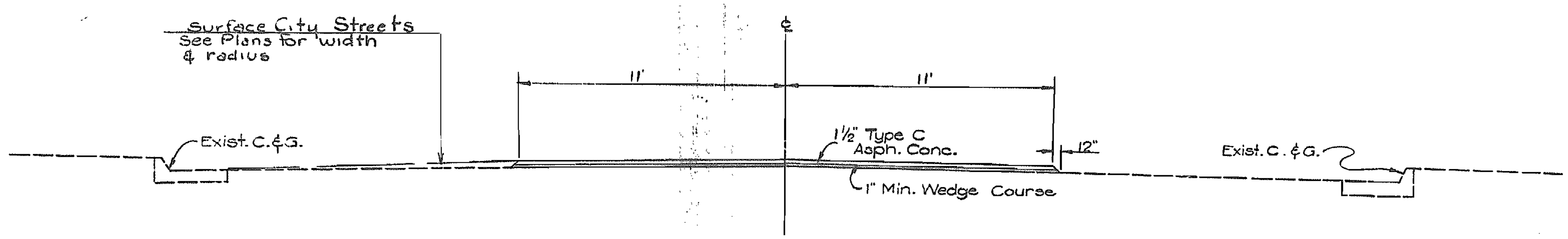
APPROVED:

DIVISION ENGINEER DATE

509

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.		SHEET NO.
5	MO.	C-029-B(2)		
DIST. NO.	COUNTY		ROUTE	SEC.
7	DADE		B91	

FINAL PLANS



TYPICAL SECTION
Sta. 0+09 to 8+50
Sta. 10+60 to 23+00

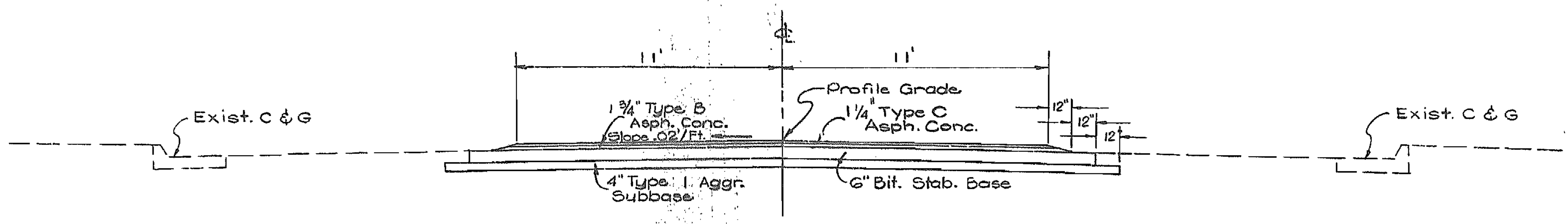
Depth transition to zero thickness at Edge of Existing pavement on Route 160 sta. 0+09± and at Railroad crossing sta. 10+60±. Meet grade of new construction at sta 8+50 and at sta. 23+00. ~~Rate of transition to be 1200:1~~ Slope ~~as~~ as directed by the Engineer.

MISSOURI STATE HIGHWAY COMMISSION
TYPICAL SECTION
STA. 0+00 TO STA. 23+00

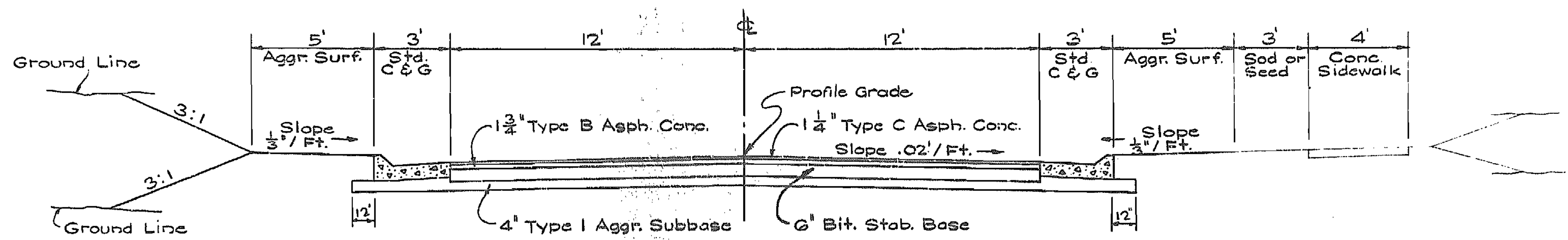
510

FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.		SHEET No.
5	MO.	C-029 B-2 C023-B(3)		2
DIST. No.	COUNTY		ROUTE	SEC.
7	DADE		B(97)	

FINAL PLANS



TYPICAL SECTION
Sta. 8+500 to 10+00.8
Sta. 10+18.5 to 10+50.0
Sta. 23+00 to 23+64.5 ~ Rt.
Sta. 23+00 to 23+84.9 ~ Lt.



TYPICAL SECTION
Sta. 23+64.5 to 29+32.5 ~ Rt.
Sta. 23+84.9 to 29+32.5 ~ Lt.

FINAL SURVEY	NOTE BOOK NO.		BY	DATE
		SURVEYED		
		PLOTTED		
		TEMPLATE		
		AREAS		
		AREAS CHECKED		

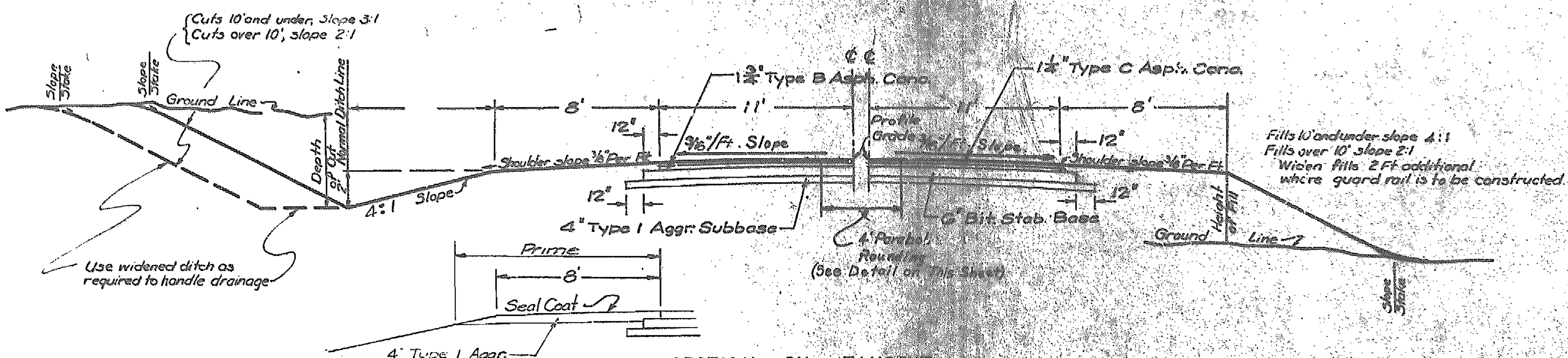
ORIGINAL SURVEY	NOTE BOOK NO.		BY	DATE
		SURVEYED		
		PLOTTED		
		TEMPLATE		
		AREAS		
		AREAS CHECKED		

511

MISSOURI STATE HIGHWAY COMMISSION
TYPICAL SECTIONS
STA. 10+18.5 TO STA. 10+50.0
STA. 23+00 TO STA. 29+32.5

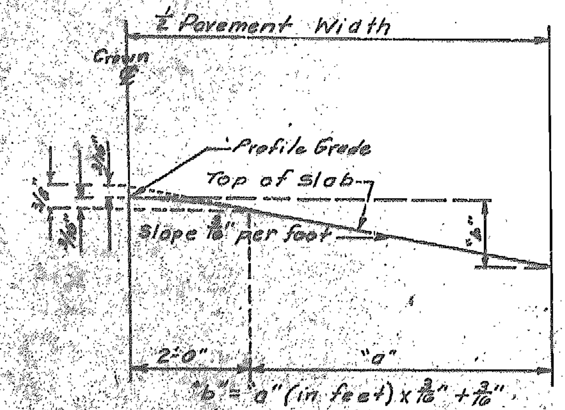
SHEET 2 OF 5

FINAL PLANS

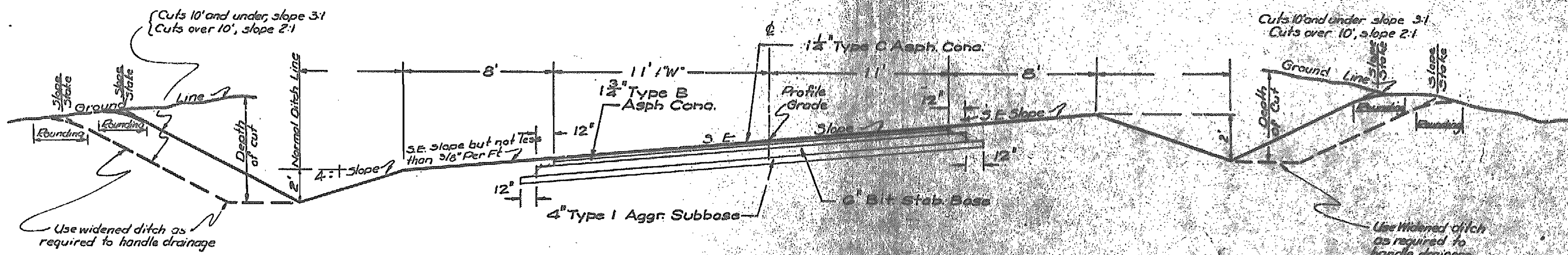


Sta. 29+32.5 to 34+36.7
(Lt. Side Only)

SECTION ON TANGENT
Sta. 29+32.5 to 55+00



STANDARD CROWN



CUT SECTION ON SUPERELEVATED CURVE (ALL CURVES OVER 30 MINUTES)

NOTE: Fill sections on superelevated curve to be identical to this section from shoulder to shoulder. Beyond shoulders use same as shown for "Section on Tangent"

Sta. 29+32.5 to 55+00

GENERAL NOTES:

For details of superelevation & widening of horizontal curves, undergrading, rounding, all pav't appurtenances, drainage items, etc., see other dwgs & Std. Dwg. 21.40

In transitioning from one cut or fill slope to another, used a 25' transition beginning at a point 25' back along that which would normally be the flatter slope and ending the transition at the critical point where the steeper slope is required. If the actual limits requiring a steeper slope is less than 25' in length, do not change to the steeper slope.

All information shown on these Typical Sections is for the purpose of indicating general design and construction details. Actual construction of roadway widths, slopes, depths and type of ditches under graded cuts, and other features, shall conform to the details shown on Cross-Sections and Plan-Profile sheets or as directed by the Engineer.

MISSOURI STATE HIGHWAY COMMISSION

PRIMARY SYSTEM

TYPICAL SECTIONS FOR 33' GRADED EARTH AND 22 FT. ASPHALT CONCRETE SURFACE

(DESIGN SPEED 60 M.P.H.)

ROUTE: B(97) COUNTY: DADE

PROJ. OR SEC. C029-B(3)

APPROVED [signature] ENGR. SURVEYS & PLANS APPROVED [signature] CHIEF ENGINEER

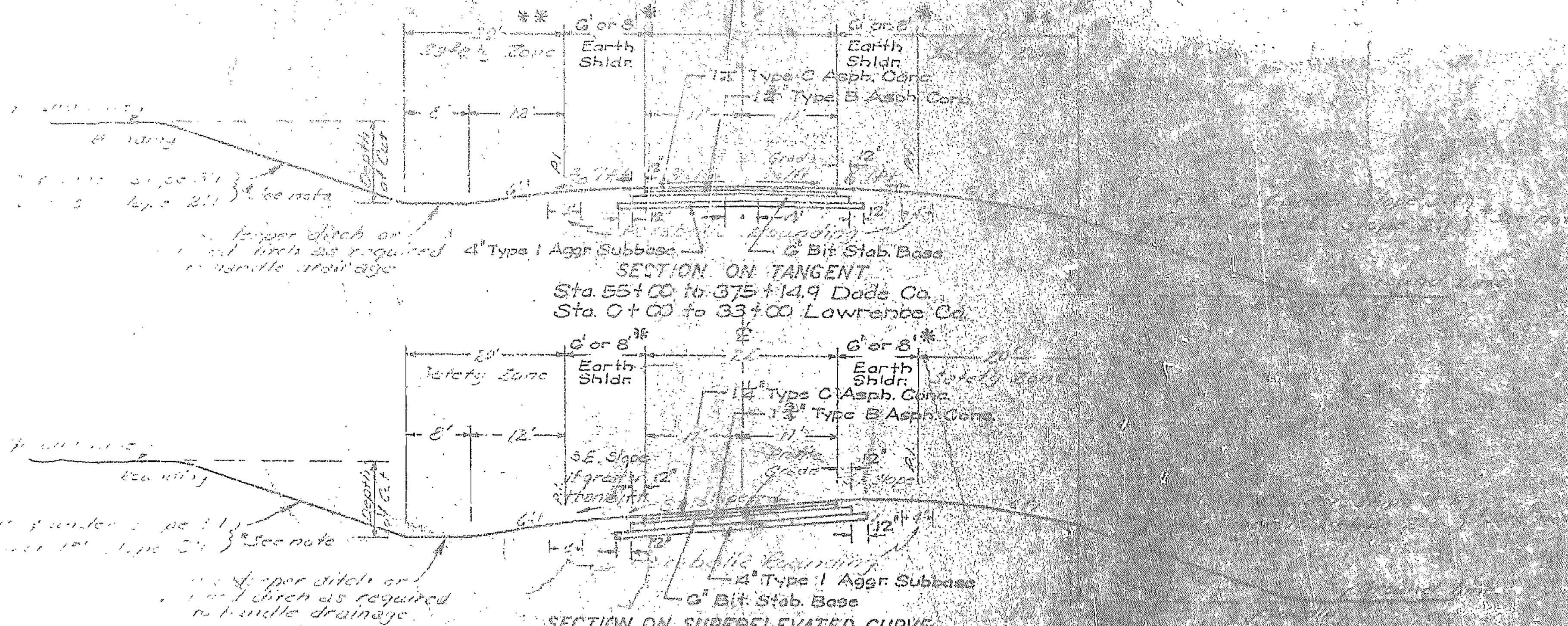
REVISIONS DATE 12-7-66

SHEET 3 OF 5

21.10

512

FINAL PLANS



SECTION ON TANGENT
Sta. 55+00 to 375+14.9 Dade Co.
Sta. 0+00 to 33+00 Lawrence Co.

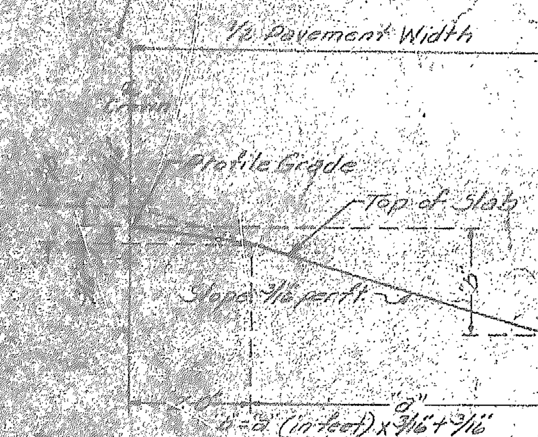
SECTION ON SUPERELEVATED CURVE
Sta. 55+00 to 375+14.9 Dade Co.
Sta. 0+00 to 33+00 Lawrence Co.

GENERAL NOTES:

For details of superelevation and widening at horizontal curves, undergrading [illegible] all pavement appurtenances, drainage items, etc., see other drawings.

In transitioning from one cut or fill [illegible] another, use a 25' transition beginning [illegible] 25' back [illegible] which would normally be [illegible] flatter slope and [illegible] the transition at the [illegible] point where the [illegible] slope is required. [illegible] limits [illegible] length, [illegible] the steeper slope.

All information shown on these Typical [illegible] for the purpose of [illegible] general design [illegible] details. [illegible] roadway [illegible] undergraded cuts [illegible] details shown on [illegible] [illegible]



STANDARD CROWN

MISSOURI STATE HIGHWAY COMMISSION

TYPICAL SECTIONS
FOR
34-38 FT. ROADBED*
AND
22 FT. PAVEMENT

ROUTE B [illegible] PROJ. OR SEC. 6023 [illegible] COUNTY DADE

DESIGN TRAFFIC 400-750 A.D.T.

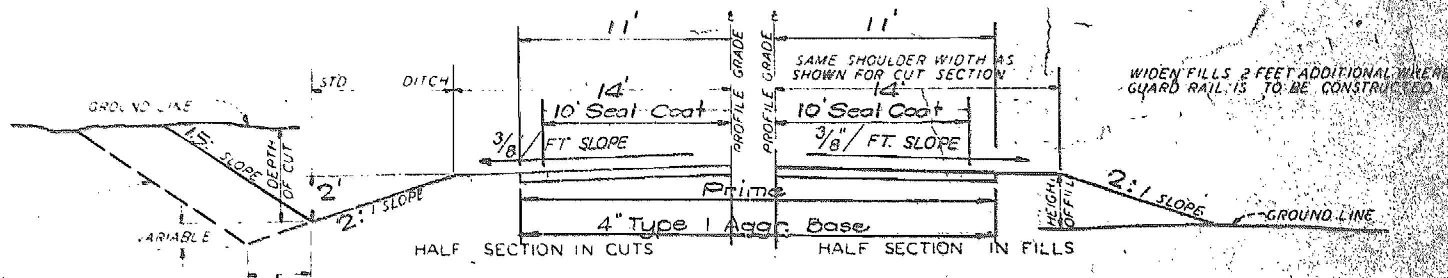
APPROVED [illegible] ENGR. SURVEYS & PLANS APPROVED M. J. Snider CHIEF ENGINEER

SHEET 4 OF 5

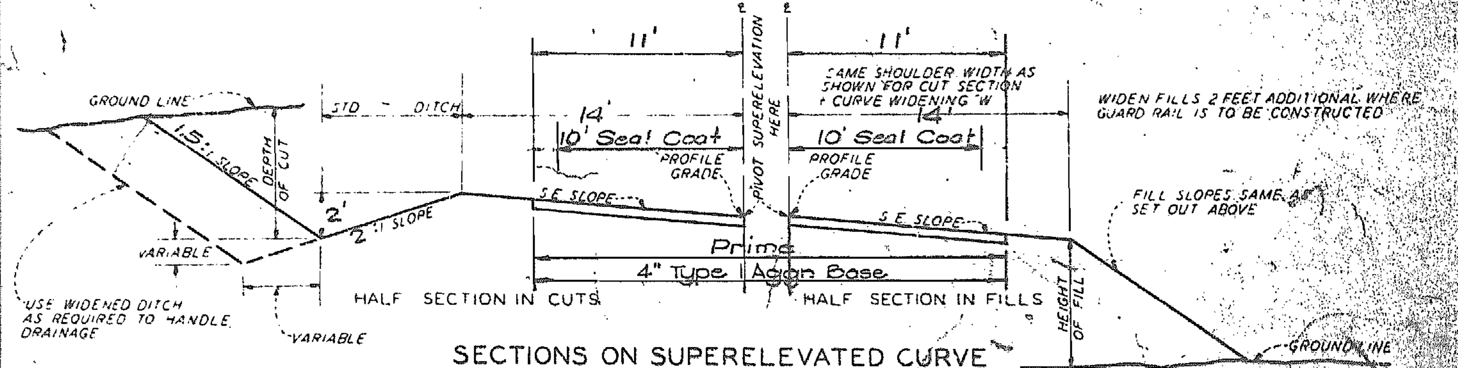
21.82

553

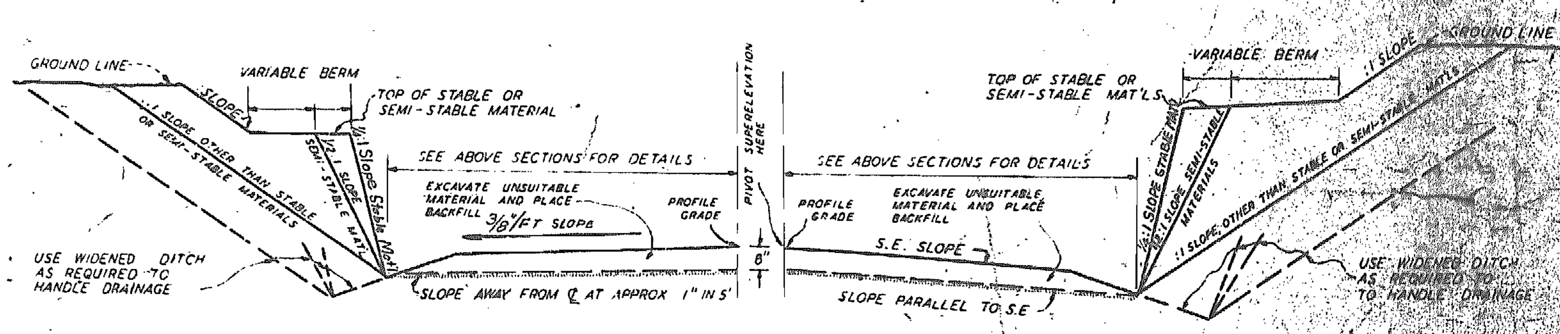
FINAL PLANS



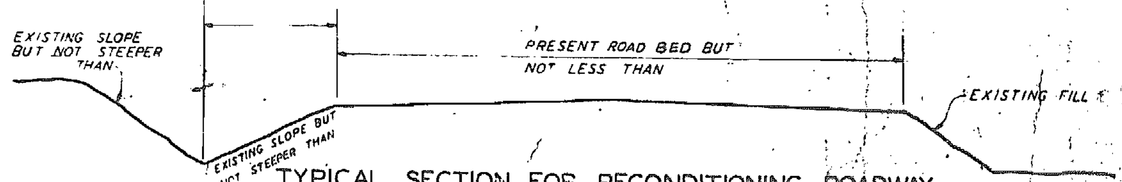
SECTIONS ON TANGENT



SECTIONS ON SUPERELEVATED CURVE



SECTIONS IN UNDERGRADED CUTS



TYPICAL SECTION FOR RECONDITIONING ROADWAY

GENERAL NOTES —

MACHINE GRADING AND RECONDITIONING ROADWAY ~~SHALL BE~~ COMPLETED IN ACCORDANCE WITH THESE TYPICAL SECTIONS USING THE STANDARD DEPTH OF DITCH EXCEPT AS OTHERWISE NOTED ON PLAN SHEETS AND AS REQUIRED TO PROVIDE PROPER DRAINAGE. COVERING OF AT LEAST ONE FOOT ~~WILL BE~~ REQUIRED OVER ALL DRAINAGE STRUCTURES LOCATED WITHIN MACHINE GRADING AND RECONDITIONING ROADWAY SECTIONS.

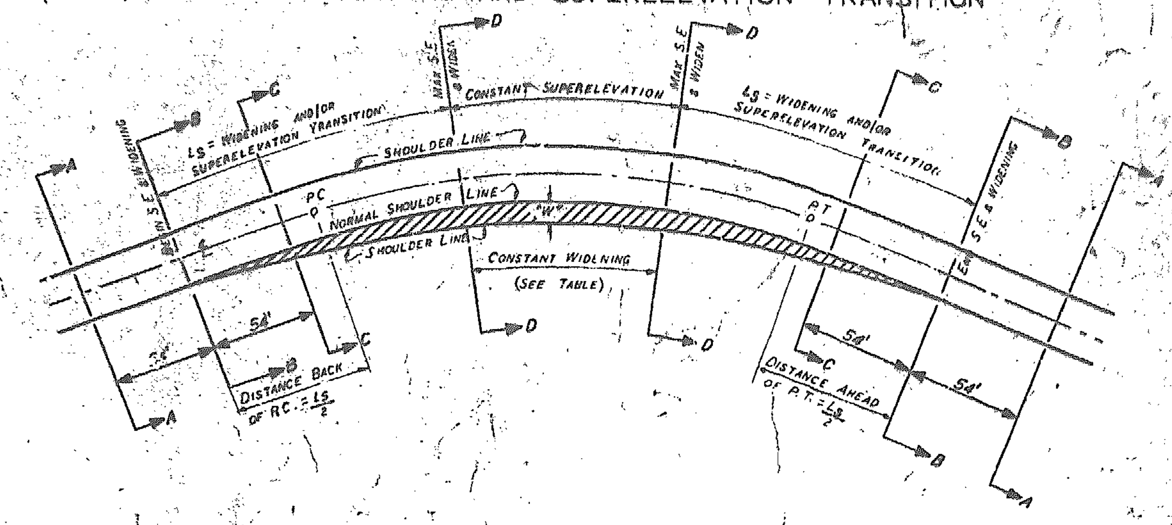
IN TRANSITIONING FROM ONE SLOPE TO ANOTHER, USE A 25 FOOT LENGTH OF TRANSITION.

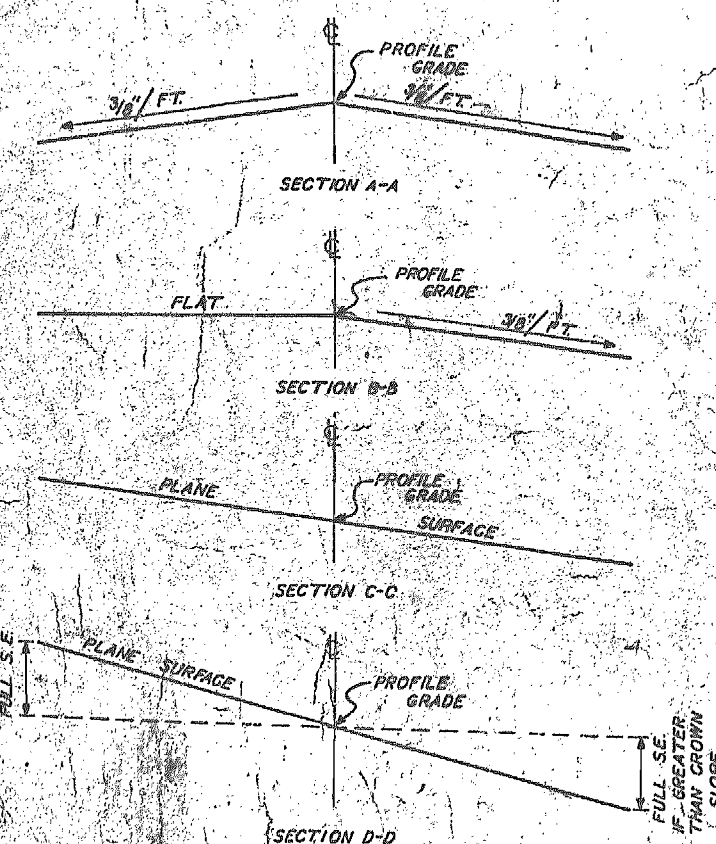
ALL INFORMATION SHOWN ON THESE TYPICAL SECTIONS IS FOR THE PURPOSE OF INDICATING THE REQUIRED CROWN ON TANGENT SECTION AND GENERAL DESIGN AND CONSTRUCTION DETAILS. ACTUAL CONSTRUCTION OF ROADBED WIDTHS, SLOPES, DEPTH AND WIDTH OF DITCHES, UNDERGRADED CUTS AND OTHER FEATURES ~~SHALL~~ CONFORM TO THE DETAILS SHOWN ON CROSS-SECTION AND PLAN & PROFILE SHEETS ~~OR AS DIRECTED BY THE ENGINEER.~~

UNLESS OTHERWISE SHOWN ON THE PLANS THE ROADWAY DITCH AT ALL CROSS ROAD CULVERTS ~~SHALL BE~~ WIDENED TO (5) FEET AT THE INLET WITH A (50) FOOT TRANSITION TO THE STANDARD ROADWAY DITCH. IN "MACHINE GRADING" LIMITS THE COST OF THIS EXCAVATION IS ~~TO BE~~ INCLUDED IN THE CONTRACT UNIT PRICE FOR MACHINE GRADING.

SEE STANDARD DRAWING 21.60 FOR SUPERELEVATION AND WIDENING DATA.

SCHEME OF WIDENING AND SUPERELEVATION TRANSITION





ILLUSTRATIONS FOR CURVE TO RIGHT – REVERSE FOR LEFT CURVE.

*STA. 34+48.7 S.R. LT.
STA. 53+10.2 S.R. RT. & LT.
STA. 212+11.3 ROUTES F & Z
STA. 286+17.5 ROUTE N N
STA. 17+27.1 ROUTE N.N. (LAWRENCE CO.)

* WIDTH 24'

MISSOURI STATE HIGHWAY COMMISSION
TYPICAL SECTIONS
FOR
28 FT. GRADED EARTH
AND
22' OF 4" TYPE 1 AGGR. BASE
WITH 20' SEAL COAT
(DESIGN SPEED 40 M.P.H.)

ROUTE COUNTY

PROJ. OR SEC.

APPROVED L. V. McLaughlin
ENGR. SURVEYS AND PLANS

APPROVED M. J. Snider
CHIEF ENGINEER

REVISIONS
DATE
1-1-61
12-7-64

SHEET 5 OF 53

21.00

514

LOCATION From Lockwood To South Of The Lawrence County Line

TYPE 38' GE, Culvs, Brg, Agg Subbase, Bit Stab Base & Asph Conc Pavement

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet No. 1 of 2

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	C029-B(3)		2-A	
DIST. No.		COUNTY		ROUTE	SEC. No.
7		DADE-LAWRENCE		B(97)	

EXCAVATION

Station	Cl A Exc Cu Yds	Ch. Ch. A Cu Yds (Plan Quan)	U.G. Cl A Cu Yds	Sandstone Cu Yds	Comp Emb Cu Yds **	Comp Cuts Cu Yds	Overhaul Sta Yds (Plan Quan)	MG 1	MG 2	Cl A Borr Cu Yds	
23+00											
30+00	[illegible]					1300					See Sh No 21
42+50	3538					3110	43311	3.4			" " " 22
61+00	[illegible]					2756		1.0			" " " 24
80+06	10338					4453		1.2			" " " 25
93+42	12977		1192	1363		392		1.3			" " " 29
96+00	5828			1379			3776	0			" " " 30
109+50	7.32			292		1597		1.6	1.2		" " " 31
116+72	[illegible]							0			Plan Quan.
130+00	7482					698		0			See Sh No 32
149+50	6516					3932		1.8			" " " 34
156+20	3763					2488	25650	0			" " " 34
172+88	7688					3051		2.4	2.6		" " " 36
185+00	[illegible]					2547		0.6		333	" " " 37 & 55
189+00	637					202		0			" " " 37
208+00	7639					4195		0.6	1.4	256	" " " 39-55
213+53	3581					2101	8880	0			" " " 39
229+00	5178					2378		1.0			" " " 41
240+00	7463					457		1.4			" " " 41
257+00	6961					2495		1.6			" " " 43
276+50	17420		244			2604	19808	0.6	1.4		" " " 44
279+00	9914		1222				21148	0			" " " 44
298+00	26985		3559			135		0.7			" " " 45
302+54	727							0			Plan Quantity
319+15	6189					3171		0.5	2.6		See Sh No 46
322+00	2061					994		1.2			" " " 46
340+57	16937	940				4396		1.2	1.8		" " " 47
351+86	7441					2259		0.7			" " " 48
371+00	20830					6243	39000	0.7	7.0*	37	*Obliteration See Sh Nos 49 & 56
375+14.9 Bk	826					17		0	4.6*	532	*Obliteration See Sh Nos 49 & 56
0+00 Ah.											
5+00	1643					348		1.9		511	See Sh Nos 50 & 57
25+00	6056					3287		1.2	12.4*	962	*Obliteration See Sh Nos 52 & 58
33+00	4678					2976		1.2			" " " 54
Sub-Totals	233810	940	6217	3034	191328**	64582	161573	27.8	35.0	2631	
Ch. Ch. A	940										
U.G. A	6217										
Rounding	5913	From S&P Tabulation Sheets									
Cl. A Borr.	2631										
TOTALS	249511			3034	191328						

** See Computations on Sheet No. 54

FLASHER SIGNS

Station	Location	No. Flashers	
24+00	℄	1	
370+00	℄	1	
	TOTAL	2	See order Record No. 1

LENGTH OF PROJECT

End of Project	Station	33+00
Beginning of Project	Station	23+00
Apparent Length		1000.0 Feet
Equations and Exceptions:		
Sta 375+14.9 Bk = Sta 0+00 Ah		+ 37514.9
Sta 28+73.7 Bk = Sta 25+26.2 Ah		+ 347.5
Total Corrections		+ 37862.4 Feet
Net Length of Project		38862.4 Feet
State Length =		7.360 Miles
Federal Length =		Miles

REMOVAL OF (84) MISC. ITEMS

Plan quantity checked and found to be 84 instead of 82.
Lump Sum = 84/82
See C.O. No. 2.

CONCRETE BOX CULVERTS

Station	Loc.	Std	Size	Length	Skew	Cl B Conc Cu Yds	Rein Steel Pounds	Cl 3 Exc Cu Yds	Remarks
29+61	℄	53 20	5×3	45	Rt ∠s	22.0	2200	84.0	2' Fill
104+87	℄	53 20	5×3	81	Rt ∠s	34.7	3760	93.0	4' Fill Incl. Rem
114+19	℄	53 20	6×4	81	Rt ∠s	47.2	4880	131.0	5' Fill Incl Part Rem.
189+46	℄	53 20	6×4	87	20° L.A.	50.7	5300	127.0	5' Fill
233+50	℄	53 15	6×5	78	Rt ∠s	50.5	5180	84.0	4' Fill Incl. Rem.
291+65	℄	53 15	5×4	85	Rt ∠s	40.9	4230	87.0	6' Fill Incl. Rem.
298+47	℄	53 15	6×5	77	Rt ∠s	49.9	5120	94.0	5' Fill Incl Part Rem.
TOTALS						295.9	30670	700.0	

REINFORCED CONC CULVERT PIPE CL III (X-ROAD)

Station	Location	Skew	30"	36"	42"	30" State Owned	C. Hdwlls	Cl B Conc Cu Yds	Reinf Steel Pounds	Cl 3 Exc Cu Yds	Remarks
34+40	℄	45° LA		59			Rt & Lt	7.6	600	86	2' Fill
52+51	℄	-	60				" "	3.5	310	42	2' Fill Incl. Rem
53+71	℄	-		62			" "	4.5	380	44	3' Fill
82+20	℄	-			96		" "	5.9	480	83	7' Fill
169+96	℄	-			84		" "	5.9	480	100	5' Fill
219+35	℄	-	81				" "	3.5	310	64	4' Fill
264+80	℄	-		84			" "	4.5	380	85	5' Fill
*321+68	℄	-	82			10	" "	6.2	620	89	2' Fill
372+00	℄	15° LA		88			" "	5.0	430	62	5' Fill
TOTALS			223	293	180	10		46.6	3990	655	

* See Change Order No. 2 and Culv. Sheet No. 19.

MISCELLANEOUS ITEMS (On P.P. Sheets)

Sheet No.	Clearing Units	Grubbing Units	R/W Markers Each	R/W Markers B Conc.	Tp II Mulch Sq. Ft. (See Note)	Seeding Sq. Ft. (See Note)
3	12	13				
4	0	0		4		
5	22	22	10	8		
6	16	16	10			
7	27	33	17			
8	14	15	7			
9	7	5	14			
10	47	45	14			
11	77	89	12			
12	35	35	18			
13	243	248	10			
14	103	102	15			
15	186	183	12			
16	35	32	22			
17	125	117	14			
TOTALS	949	955	175	12	2929605	3613037
Acres	10.9	11.0			67.3	82.1

Note See Book No. 7 For Mulching and Seeding Computations

MOVEABLE BARRICADES

Station	Location	No.	Remarks
25+00	℄	1	See order Record # 1
52+00	℄	1	" " 3
54+00	℄	1	" " 3
211+00	℄	1	" " 3
213+00	℄	1	" " 3
213+00	℄	1	" " 1
317+50	℄	1	" " 3
319+00	℄	1	" " 3
319+00	℄	1	" " 1
370+00	℄	1	" " 3
371+00	℄	1	" " 1
20+00	℄	1	" " 3
TOTAL		12	

REINFORCED CONC. CULV. PIPE CL. III (Storm Sewer)

Location	15"	18"	24"	30"	Cl 3 Exc.	Elbows	Cl B Conc.	Reinf Steel
1-1E To 1-2E			43		32			
1-2E To 3-1M			52		34			
2-1E To 2-2E	39				21			
2-2E To 3-1M		18			9	2 @ 45°		
3-1M To 3-2M			229		174			
4-1E To 4-2E	35				17			
4-2E To 4-3G	25				10	2 @ 45°		
4-3G To 4-4G		25			10			
4-4G To 3-2M		6			1			
3-2M To Hdwl.				311	283	1 @ 30°	1.8	150
5-1G To 5-2G	25				9			
5-2G To Main	6				1			
TOTALS	130	49	324	311	601		1.8	150

CONCRETE MANHOLES

Station	Location	No.	Size	"D"	Pipe Openings	Cl B Conc Cu Yds	Reinf Steel	Cl 3 Exc Cu Yds	Tp II Frame & Cover (Ea)
23+90	21.5' Rt	3-1M	3'×3'	4'-6"	2-24" & 1-18"	1.7	200	10	1
26+22	21.5' Rt	3-2M	3'×3'-6"	5'-3"	1-30", 1-24", 1-18"	2.1	230	12	1
TOTALS						3.8	430	22	2

DROP INLETS

Station	Location	No. & Type	Size	D	Pipe Openings	Cl B Conc	Rein Steel	Cl 3 Exc	Grates & Bear. Plates
23+32	32' Rt	2-1E	3×3	2'-9"	1-15"	1.2	100	7	
23+49	33' Lt	1-1E	3×3	3'-6"	1-24"	1.3	110	8	
23+73.5	32' Rt	2-2E	3×3	3'-0"	1-15" & 1-18"	1.2	100	7	
23+94.5	33' Lt	1-2E	3×3	3'-6"	2-24"	1.3	120	8	
26+22	13.5' Lt	4-3G	2×2	2'-3"	1-15" & 1-18"	0.6	120	4	190
26+22	13.5' Rt	4-4G	2×2	2'-6"	2-18"	0.6	120	4	190
26+38	33.5' Lt	4-2E	3×3	3'-0"	2-15"	1.2	100	7	
26+76	33.5' Lt	4-1E	3×3	2'-9"	1-15"	1.2	100	7	
28+45	13.5' Lt	5-1G	2×2	2'-0"	1-15"	0.6	110	3	190
28+45	13.5' Rt	5-2G	2×2	2'-3"	2-15"	0.6	120	4	190
TOTALS						9.8	1100	59	760

GENERAL SUMMARY — FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED.
20008	Clearing	Acre	10.9	
20108	Grubbing	Acre	11.0	
21004	Class A Excavation	Cu Yd	249511	
21204	Compacting Embankment	Cu Yd	191328	
21214	Compacting In Cuts	Cu Yd	64582	
21309	Overhaul	Sta Yd	161573	
21400	Interception Ditch	100 L.F.	26.0	
21507	Water	100 Gal	1100	
21801A	Machine Grading Class 1	Sta	27.8	
21901A	Machine Grading Class 2	Sta	35.0	
24200	Removal of (84) Misc Items	L. Sum	84/82	
24410	Removal of Bldg Class 1	Each	2	
24420	Removal of Bldg Class 2	Each	1	
24430	Removal of Bldg Class 3	Each	1	
24450	Removal of Bldg Class 5	Each	2	
31015	Type 1 Agg for Base	Ton	28811	
31142	Processing Type 1 Agg (4")	Mile	7.40	
31143	Processing Type 1 Agg (4")	Sq Yd	8373	
35064	Crushed Stone (B)	Cu Yd	368	
37007	Primer (MC-0)	Gal	31940	
41256	Bit Mat'l (Base) (60-100 PA)	Ton	16477	
41205	Min Aggregate (Base)	Ton	32615	
43025	Type B Asph Conc	Ton	9365	
43035	Type C Asph Conc	Ton	6891	
44717	Bit Mat'l (1st Appl) (150-300 PA)	Gal	0	
44035	Cover Agg (Grade 6)	Ton	168	
50034	Class 3 Exc for Struct	Cu Yd	2054	
53021	Class B Concrete (Culv)	Cu Yd	295.9	
53022	Class B Concrete (Misc)	Cu Yd	62.0	
54000	Reinforcing Steel	Lb.	36340	
60704	Bit Coated CMP Arch Culv (Plain) B-4	L.F.	114	
60705	Bit Coated CMP Arch Culv (Plain) B-5	L.F.	120	
60706	Bit Coated CMP Arch Culv (Plain) B-6	L.F.	84	
60707	Bit Coated CMP Arch Culv (Plain) B-7	L.F.	50	
61315	15" Class III RCP Culv	L.F.	130	
61318	18" Class III RCP Culv	L.F.	49	
61324	24" Class III RCP Culv	L.F.	324	
61330	30" Class III RCP Culv	L.F.	534	
61336	36" Class III RCP Culv	L.F.	293	
61342	42" Class III RCP Culv	L.F.	180	
68015	15" Pipe Culv (Group III)	L.F.	542	
68018	18" Pipe Culv (Group III)	L.F.	738	
68024	24" Pipe Culv (Group III)	L.F.	200	
68030	30" Pipe Culv (Group III)	L.F.	60	
83000	Furnishing Rock Fill	Cu Yd	37	
83010	Placing Rock Fill	Cu Yd	37	
84200	Curb & Gutter	L.F.	1155	
84300	Concrete Gutter	L.F.	28	
84400	Paved Ditch	S.Y.	332.1	
85504	Concrete Sidewalk (4")	S.Y.	32.2	
87020	Moveable Barricades	Each	12	
87040	Flasher Signs	Each	2	
87100	Construction Signs	L. Sum	1	
88000	Right-of-Way Markers	Each	175	
88001	Type B Conc. Right-of-Way Markers	Each	12	
89000	Grates & Bearing Plates	Lb.	760	
89200	Manhole Frame & Cover (Type 2)	Each	2	
90120	Type II Mulch	Acre	67.3	
90121	Asphalt Emulsion	Gal.	16340	
90200	Sodding	S.Y.	1203	
90400	Seeding	Acre	82.9	
	CONTINGENT ITEMS			
Cont.	Place State Owned 30" Pipe	L.F.	10	
Cont.	Sandstone Excavation	Cu Yd	3034	
Cont.	Temporary Surfacing	Cu Yd	200	
Cont.	120-150 Bit Mat'l (1st Appl) P.A.	Gal	3270	
Cont.	Asphalt Samples	Ea.	40	
	Bridge At Station 339+53.87 Drawing No A-2464			
50034	Class 3 Excavation For Structures	Cu Yd	574	
53020	Class B Concrete	Cu Yd	354.7	
54000	Reinforcing Steel	Lb.	38700	

Prepared By [illegible] Date ________ 19__ Checked in Dist. Office By ________ Date ________ 19__ Checked in Central Office By [illegible] Date [illegible] 19__ Revised By ________ Date ________ 19__

S & P - 2AS

LOCATION From Lockwood To South of the Lawrence County Line

TYPE 38 G.E. Culvs, Brg Agg Sub-Base, Bit Stab Base & Asph Conc Pavement

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet No. 2 of 2

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	C029-B (3)			
DIST. No.	COUNTY			ROUTE	SEC. No.
7	DADE - LAWRENCE			B(97)	

ENTRANCE & SIDE ROAD CULVERT PIPE and APPROACHES

Station	Type & Location	Bit Coated M.A. Pipe (Plain) B-4	B-5	B-6	B-7	C.M. Culv. Pipe (Group III) 15"	18"	24"	30"	M.G. 1 Stas	M.G. 2 Stas	Cu Yd Exc.	[illegible]	Remarks
30+67.5	PE Lt						38			0.3			1	
31+12.5	PE Lt						38			0.3			1	
32+56	PE Rt			42						0.4			2	
32+84.5	PE Lt						38			0.5			1	
34+48.7	SR Lt													No Pipe
34+50	CE Rt						46			0.3			1	30' Width
36+25	FE Rt						36			0.3			1	
37+90	PE Lt							42		0.3			1	
39+35	PE Lt							40		0.3			1	
40+29	PE Rt						36			0.3			1	
41+37	PE Rt						36			0.3			1	
41+65	PE Lt							40		0.3			1	
44+50	PE Rt						36			0.3			1	
48+00	FE Rt									0.3				No Pipe
48+00	FE Lt									0.4				No Pipe
53+10.2	SR Lt													No Pipe
53+10.2	SR Rt													No Pipe
71+30	FE Lt									0.6				No Pipe
71+30	PE Rt									0.6				No Pipe
92+85	FE Lt					38				0.6			1	
92+95	FE Rt					38				0.7			1	
105+97.1	SR Rt				50						1.2		1	
105+97.1	SR Lt					28				1.3		17		See Sh No For Cl 3 Exc
105+87.6	PE Rt					36				0.3			1	off SR Lt 152'
132+50	FE Rt	38								0.6			1	
139+55	PE Lt		40							0.6			1	
139+55	FE Rt		40							0.6			1	
158+83.1	SR Lt						56				1.3		1	
158+83.1	SR Rt						56				1.3		1	
11+65	FE Lt									0.3				No Pipe SR Lt Sta
11+65	FE Rt									0.3				No Pipe
168+10	FE Lt									0.6				No Pipe
168+10	PE Rt									0.6				No Pipe
171+35	FE Rt						38			0.6			1	
178+75	FE Lt						38			0.6			1	
191+60	FE Lt							40			0.7		1	
191+60	PE Rt							40			0.7		2	
204+66	FE Rt						38			0.6			1	
2+00	FE Rt									0.3				Rte. 2 Sta No Pipe
22+00	FE Rt									0.7				No Pipe
236+00	FE Rt						38			0.7			1	
238+60	PE Lt		40							0.7			1	
249+92	FE Rt					38				0.6			1	
251+94	FE Lt						38			0.6			1	
256+21	PE Rt									0.4				No Pipe
265+26.3	SR Lt								60				3	
265+26.3	SR Rt													No Pipe
8+30	FE Lt					36				0.3			1	off SR Lt
8+30	FE Rt					36				0.3			1	" " "
276+19	PE Rt					46					1.4		3	
285+50	FE Lt			42						0.7			1	
313+95	FE Lt						38			0.5			1	
318+29	SR Rt										1.3			No Pipe
313+29	SR Lt						56				1.3		1	
320+00	FE Rt									0.6				No Pipe
320+00	FE Lt									0.6				No Pipe
331+50	FE Rt					38				0.6			1	
331+69	SR Lt										1.8			No Pipe
332+00	FE Rt									0.6				No Pipe
346+00	PE Rt						38			0.7	7.0*		1	*Obliteration
361+00	FE Rt					38				0.7	4.6*		1	* "
369+80.6	Rte Conn Rt													No Pipe
3+75	PE Lt					38				0.6			1	
5+00	FE Lt					38				0.6			1	
5+00	FE Rt	38								0.7			1	
17+27.1	Supp Rte Conn													No Pipe
308+73	PE Rt					38				0.3			2	Rte NN Sta
310+00	FE Rt					36				0.3			1	" " "
23+00	FE Rt	38								0.6	12.4*		1	*Obliteration
28+60	FE Lt									0.6				No Pipe
28+60	PE Rt									0.6				No Pipe
212+11.3	S.R. Lt													No Pipe
212+11.3	S.R. Rt													No Pipe
TOTALS		114	120	84	50	542	738	200	60	27.8	35.0	17		

LENGTH OF PROJECT

End of Project		Station	
Beginning of Project		Station	
Apparent Length			Feet
Equations and Exceptions:			
Total Corrections			Feet
Net Length of Project			Feet
	State Length =		Miles
	Federal Length =		Miles

REMOVAL OF BUILDINGS

Station	Location	Description	Class 1	Class 2	Class 3	Class 5
167+43	Rt.	34×37 House		1		
329+48	Rt	40×22 Barn	1			
13+26	℄	20×20 Shed	1			
14+28	Lt.	22×44 House			1	
19+21	Lt.	12×14 Barn				1
19+68	Lt	14×12 Shed				1
		TOTALS	2	1	1	2

Note. See letter signed by James T. Masters & Raymond McDaniel

PROCESSING TYPE 1 AGG. (4") (Mile)

Plan quantity checked and found to be correct. Total = 7.40 Miles

PROCESSING TYPE 1 AGG. (4") S.Y.

All entrances & Street Approaches Built To Plan Measurements – Total = 8373 S.Y.

INTERCEPTION DITCH

Station	To Station	Loc.	Width	100 Units	
85+50	90+00	Rt.	4'	4.5	See Book No. 5 Page 12
90+00	92+70	Rt.	4'	2.7	" " "
192+50	204+50	Rt.	4'	12.0	" " "
284+80	291+50	Lt.	4'	6.7	" " "
Field Measured			TOTAL	25.9	

PAVED DITCH

Total: 332.1 S.Y. (See Sh. No 18)

CONCRETE SIDEWALK (4")

Station	Station	Location	Leng & Width	Sq. Yds.
23+41	23+47	Lt.	6 × 4	2.7
23+51	23+61	Lt.	10 × 4	4.4
23+85	23+92.5	Lt.	7.5 × 4	3.3
23+96.5	23+99.5	Lt.	3 × 4	1.3
23+27	23+30	Rt.	3 × 4	1.3
23+34	23+39	Rt	5 × 4	2.2
23+64	23+71.5	Rt.	7.5 × 4	3.3
23+75.5	23+87.5	Rt	12 × 4	5.3
26+29	26+36	Lt.	7 × 4	3.1
26+40	26+45	Lt.	5 × 4	2.2
26+69	26+74	Lt.	5 × 4	2.2
26+78	26+80	Lt.	2 × 4	0.9
Field Measured			TOTAL	32.2

ROCK FILL

Station	To Station	Leng & Width	Furnish	Place	Location
126+00	127+00	100 × 10	37.0	37.0	Rt.

Field Measured.

SODDING

Total Sq. Yds.: 1203 See Book No. 9 Pages 20

GENERAL SUMMARY FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY

CURB & GUTTER (Type A)

Station	To Station	Location	Lin. Ft.
23+64.5	25+63	Rt.	215
24+81.9	26+44	Lt.	273
25+77	28+89	Rt.	334
26+69.4	28+58.9	Lt.	207
28+72.9	28+88.9	Lt.	38
29+02.9	29+37.5	Lt.	44
29+03	29+37.5	Rt.	44
		Total	1155

Field Measured – See Book #9, Page 18

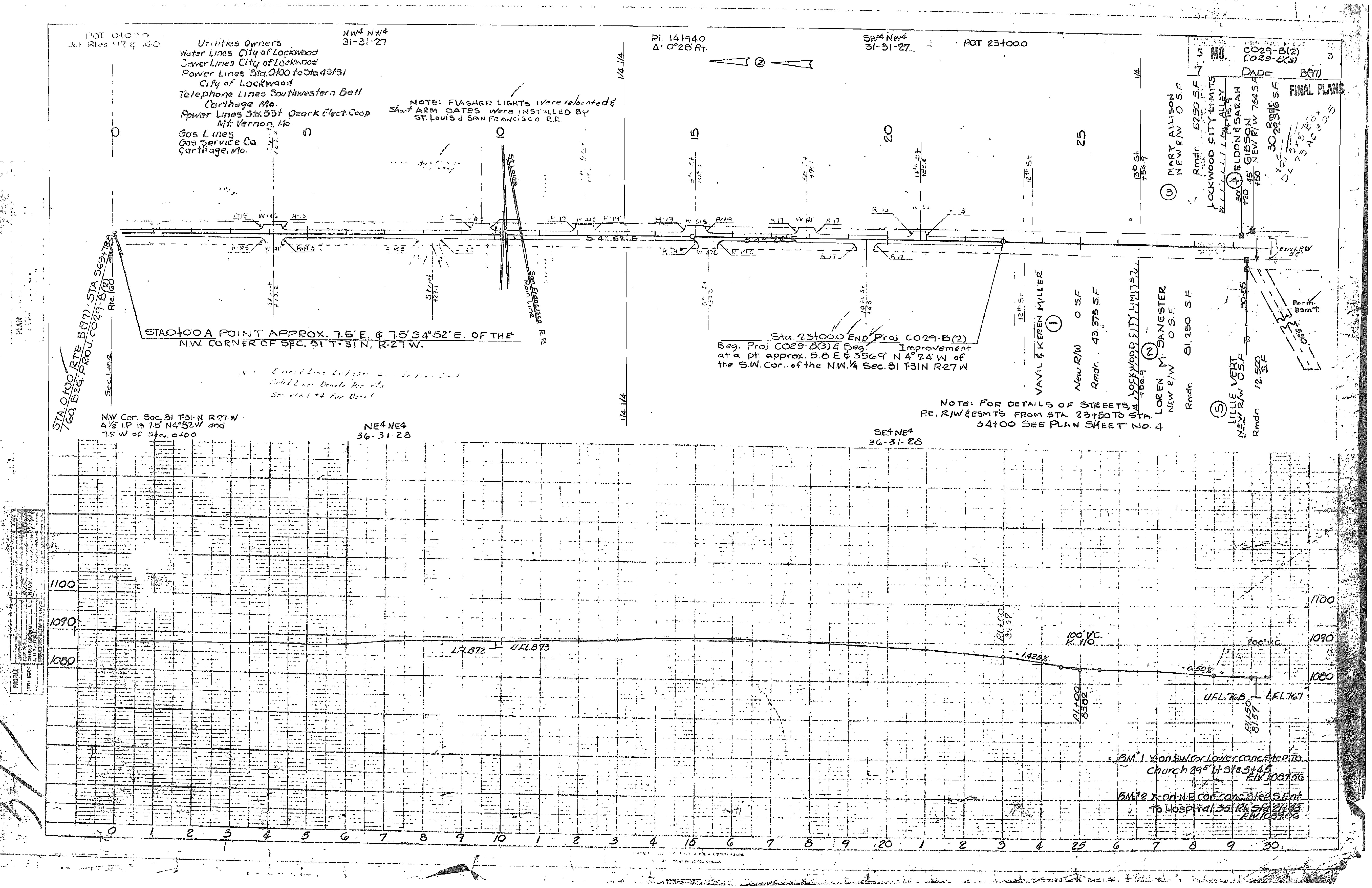
CONCRETE GUTTER (Type A)

Station	To Station	Location	Lin. Ft.
29+37.5	29+44	Rt.	8
29+37.5	29+54	Lt.	20
		Total	28

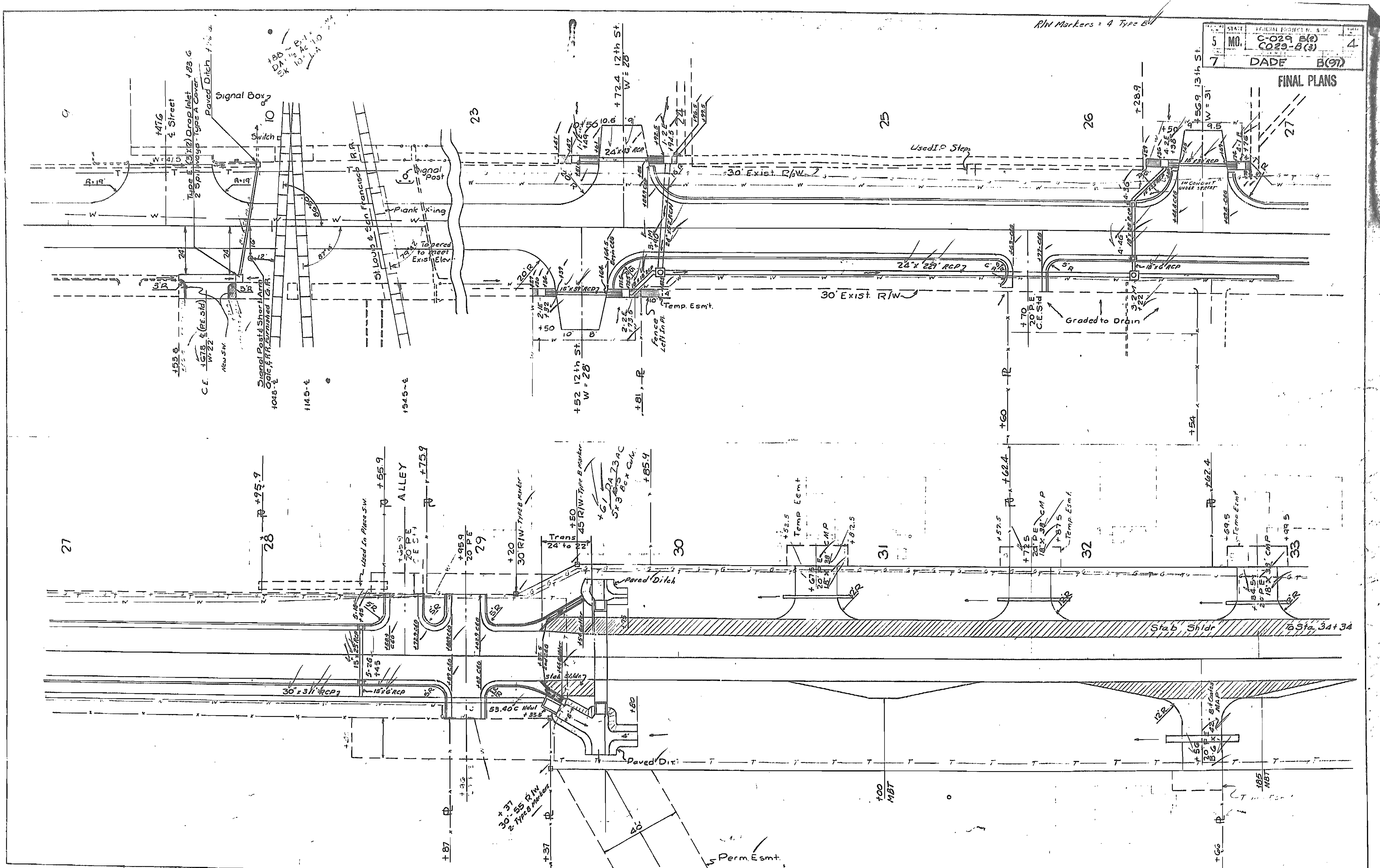
Field Measured – See Book #9, Page 18

516

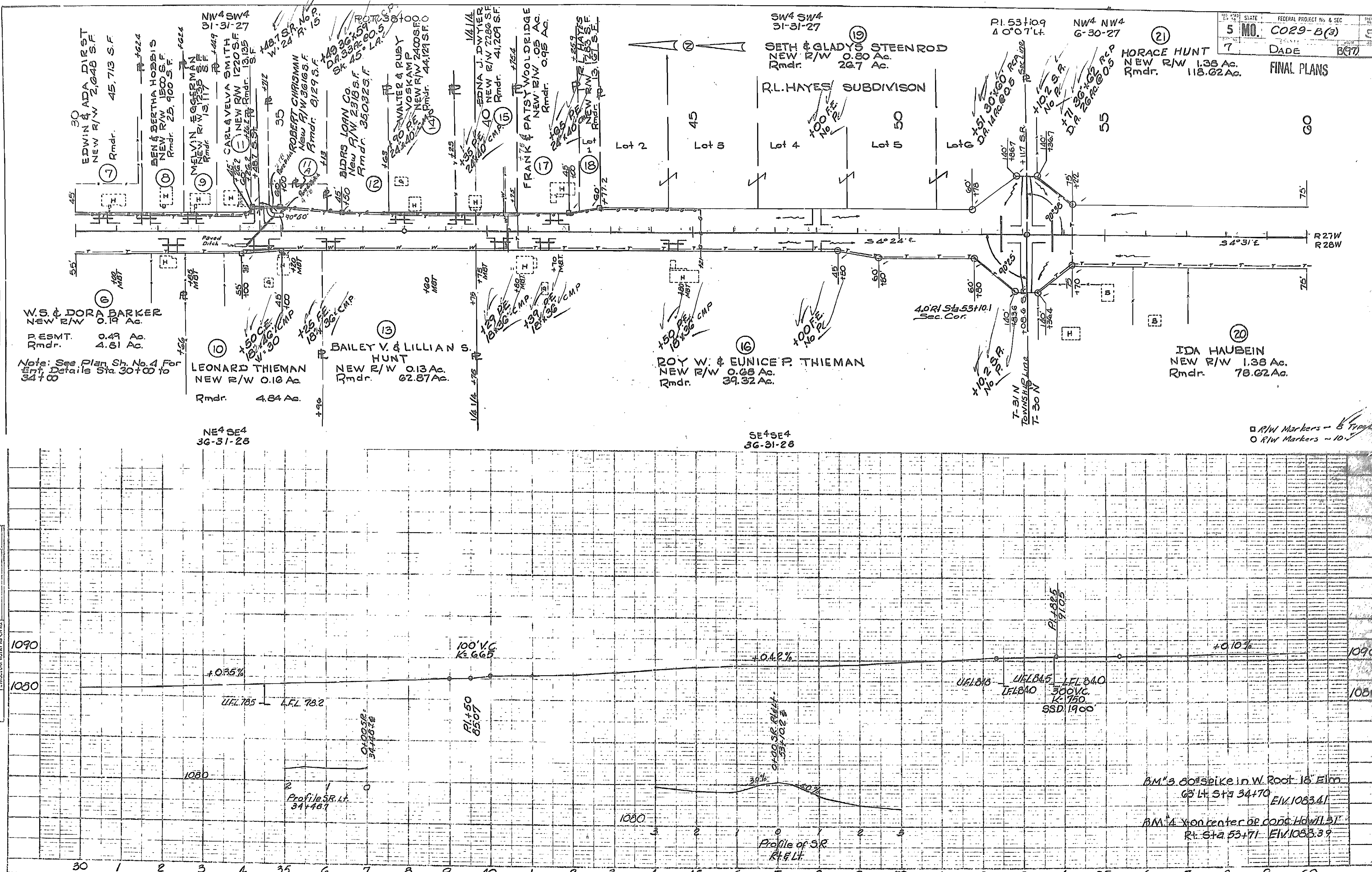
Prepared By ________ Date ________ 19__ Checked in Dist. Office By ________ Date ________ 19__ Checked in Central Office By ________ Date 11-7 19 7_ Revised By ________ Date ________ 19__



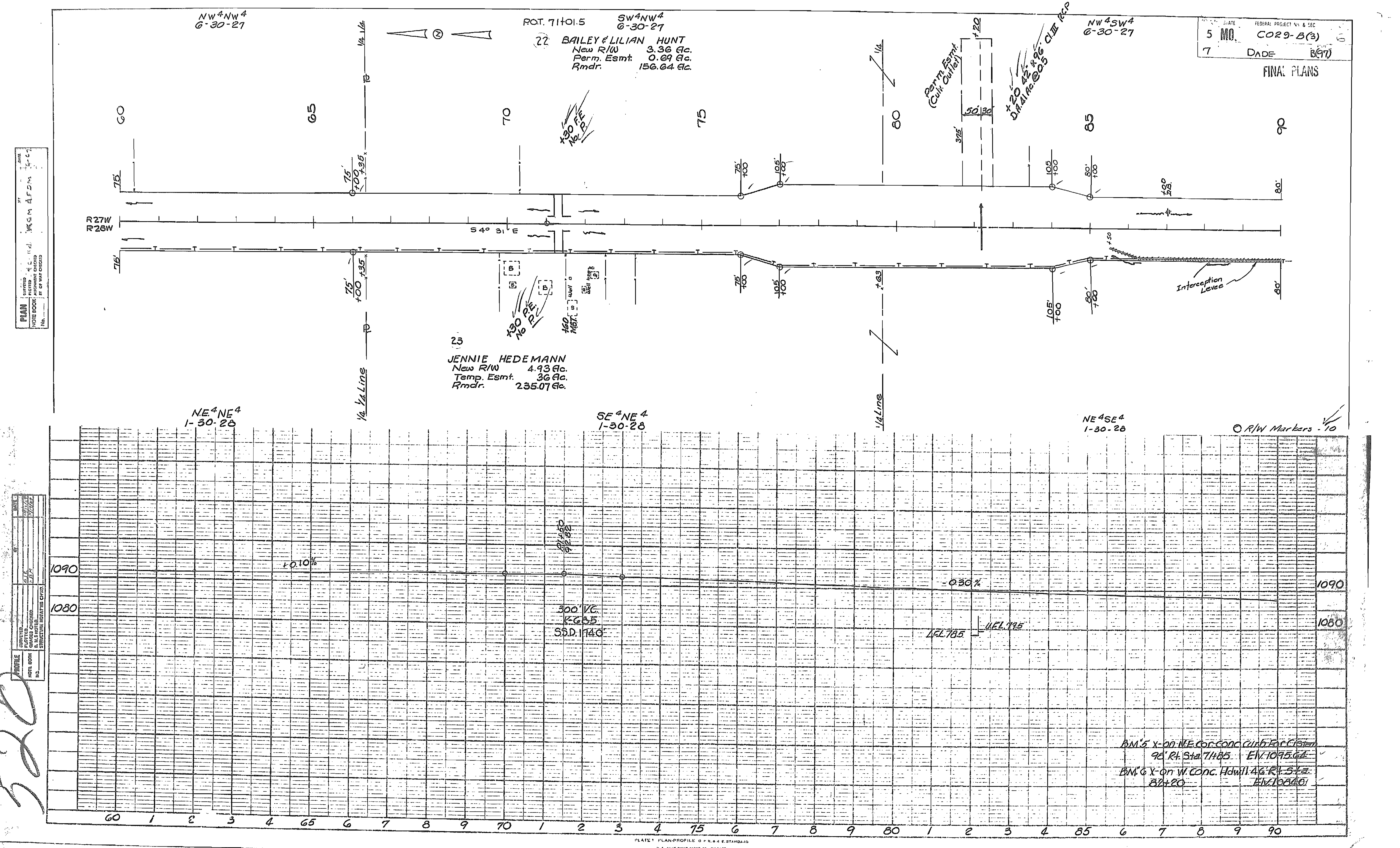
5 MO. C029-B(2) C029-B(3) 3
7 DADE B(17)
FINAL PLANS
POT 0+00.0
Utilities Owners
Water Lines City of Lockwood
Sewer Lines City of Lockwood
Power Lines Sta. 0+00 to Sta 43+31 City of Lockwood
Telephone Lines Southwestern Bell Carthage Mo.
Power Lines Sta. 53+ Ozark Elect. Coop Mt. Vernon, Mo.
Gas Lines Gas Service Co. Carthage, Mo.
NW¼ NW¼ 31-31-27
NOTE: FLASHER LIGHTS were relocated & Short ARM GATES were INSTALLED BY ST. LOUIS & SAN FRANCISCO R.R.
P.I. 14+94.0 Δ: 0°28' Rt.
SW¼ NW¼ 31-31-27
POT 23+00.0
San Francisco R.R. Main Line
S. 4°52' E.
STA 0+00 A POINT APPROX. 7.5' E. & 7.5' S4°52'E. OF THE N.W. CORNER OF SEC. 31 T-31N, R-27W.
STA 0+00 RTE B(17) = STA 369+78.3 / 160, BEG. PROJ. C029-B(2) Rte. 160
Sec. Line
N.W. Cor. Sec. 31 T-31-N R-27-W A ½" I.P. is 7.5' N4°52'W and 7.5' W of Sta. 0+00
NE¼ NE¼ 36-31-28
SE¼ NE¼ 36-31-28
Sta. 23+00.0 END Proj. C029-B(2) Beg. Proj. C029-B(3) & Beg. Improvement at a pt. approx. 5.8' E & 3569' N 4°24' W of the S.W. Cor. of the N.W. ¼ Sec. 31 T-31N R-27W
NOTE: FOR DETAILS OF STREETS, PE, R/W & ESMTS FROM STA. 23+50 TO STA. 34+00 SEE PLAN SHEET No. 4
① VAVIL & KEREN MILLER New R/W 0 S.F. Rmdr. 43,375 S.F.
② LOREN M. SANGSTER New R/W 0 S.F. Rmdr. 81,250 S.F.
③ MARY ALLISON NEW R/W 0 S.F. Rmdr. 5250 S.F.
④ ELDON & SARAH GIBSON NEW R/W 764 S.F. Rmdr. 29,316 S.F.
⑤ LILLIE VERT New R/W 0 S.F. Rmdr. 12,500
LOCKWOOD CITY LIMITS
Perm. Esmt.
1100
1090
1080
L.F.L. 87.2
U.F.L. 87.3
P.I. 23+00 86.47
-1.425%
100' V.C. K 110
P.I. 25+00 83.02
-0.50%
200' V.C.
U.F.L. 76.8
L.F.L. 76.7
P.I. 29+50 81.57
BM 1 X on SW cor. Lower conc. step to Church 29.5' Lt. Sta. 3+45 EL. 1087.56
BM 2 X on N.E. cor. conc. step S. Ent. to Hospital 41.35' Rt. Sta. 21+43 EL. 1097.06
0 1 2 3 4 5 6 7 8 9 10 1 2 3 4 15 6 7 8 9 20 1 2 3 4 25 6 7 8 9 30
PROFILE



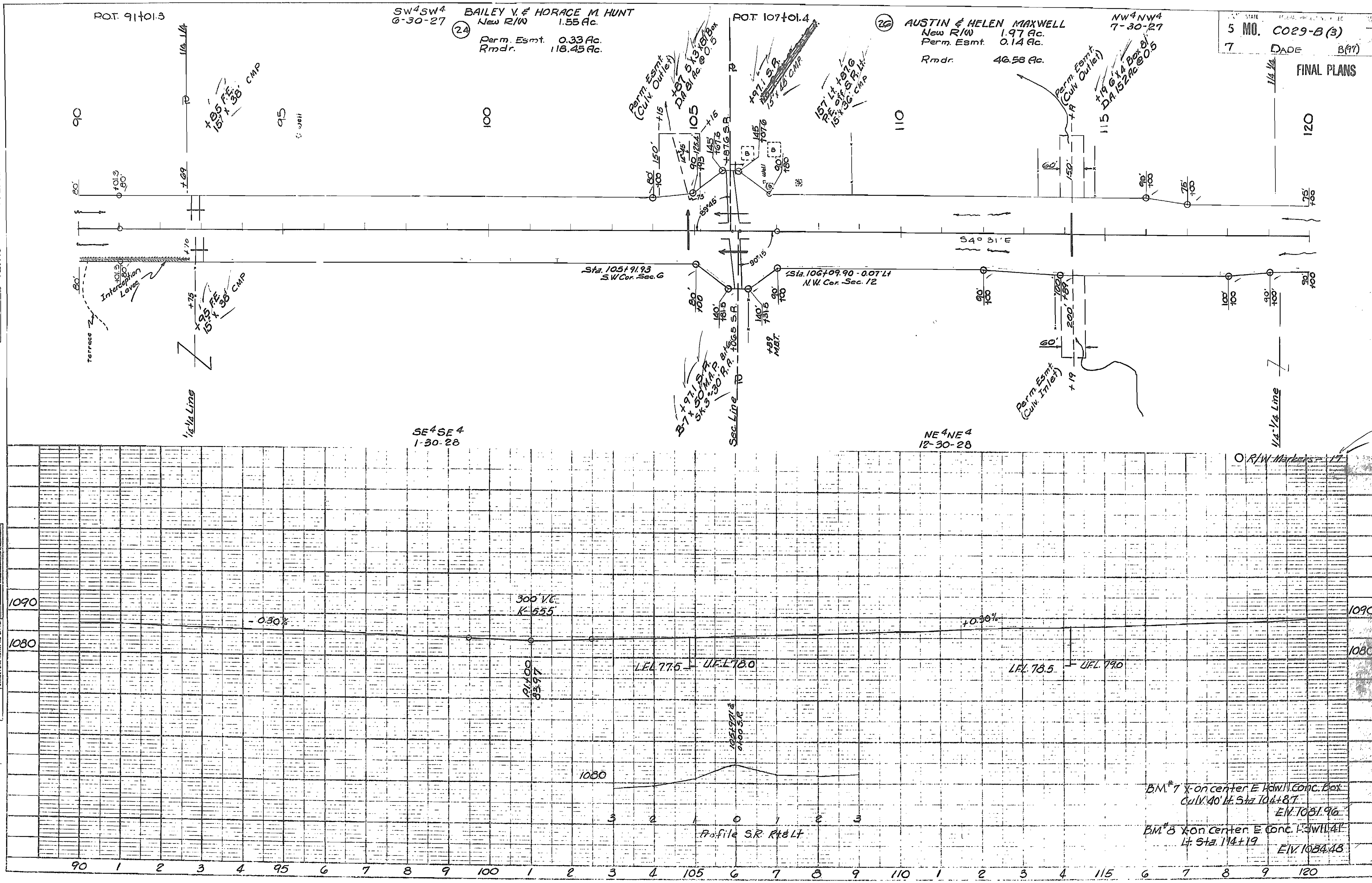
R/W Markers = 4 Type B
5 MO. C-029 B(2) C029-B(3) 4
7 DADE B(97)
FINAL PLANS
Signal Box
Switch
Paved Ditch
Type E (3'x12') Drop Inlet 183 G 2 Spillways - Type A Cover
+47G ⅊ Street W=41.5
Signal Post
Plank X-ing
St. Louis & San Francisco R.R.
Tapered to meet Exist. Elev.
Signal Post & Short Arm Gate, R.R. Furnished 104.8 ⅊
114.5 ⅊
154.5 ⅊
C.E. +67.8 ⅊ (P.E. Std.) W=22
New S.W.
+53.8
+72.4 12th St. W=28
24"x43' RCP
30' Exist. R/W
Used I.P. Steps
15"x37' RCP
24"x221' RCP
Temp. Esmt.
Fence Left in Pl.
+52 12th St. W=28
+81 ℙ
+70 20' P.E. C.E. Std.
Graded to Drain
+60 ℙ
+54
+28.9
+56.9 13th St. W=31
18"x6' RCP
In Conduit Under Street
25
26
27
23
10
ALLEY
+95.9
+55.9
+75.9
20' P.E.
29
28
+20 30' R/W - Type B Marker
Trans 24' to 22'
+50 45' R/W - Type B Marker
+61 DA 7.3 AC 5'x3' Box Culv.
+85.9
30
Paved Ditch
Used In Place S.W.
30"x31' RCP
15"x6' RCP
53.40 C Hdwl
Stab. Shldr.
Temp. Esmt.
+62.4
31
32
33
18"x38' CMP
+87.5 Temp. Esmt.
+69.5 Temp. Esmt.
+99.5
Stab. Shldr.
To Sta. 34+34
+87
+37
30'+37 55' R/W 2 Type B Markers
40'
Perm. Esmt.
+00 MBT
+85 MBT
+66
12 R
518



5 MO. C029-B(3) 5
7 DADE B(97)
FINAL PLANS
NW4 SW4
31-31-27
SW4 SW4
31-31-27
NW4 NW4
6-30-27
R.L. HAYES SUBDIVISON
Lot 1
Lot 2
Lot 3
Lot 4
Lot 5
Lot 6
P.I. 53+10.9
Δ 0°07' Lt.
EDWIN & ADA DIRST
NEW R/W 2,048 S.F.
Rmdr. 45,713 S.F.
BEN & BERTHA HOBBS
NEW R/W 1500 S.F.
Rmdr. 25,900 S.F.
MELVIN EGGERMAN
NEW R/W 1238 S.F.
Rmdr. 13,117 S.F.
CARL & VELVA SMITH
NEW R/W 1220 S.F.
Rmdr. 13,135 S.F.
ROBERT CHRISMAN
New R/W 3616 S.F.
Rmdr. 8129 S.F.
BIDRS LOAN Co.
New R/W 2318 S.F.
Rmdr. 350323 S.F.
WALTER & RUBY VOSKAMP
NEW R/W 2400 S.F.
Rmdr. 44,121 S.F.
EDNA J. DWYER
NEW R/W 2286 S.F.
Rmdr. 41,209 S.F.
FRANK & PATSY WOOLDRIDGE
NEW R/W .05 Ac.
Rmdr. 0.95 Ac.
R. HAYES
NEW R/W 1,769 S.F.
Rmdr. 13,191 S.F.
SETH & GLADYS STEENROD
NEW R/W 0.80 Ac.
Rmdr. 26.7 Ac.
HORACE HUNT
NEW R/W 1.38 Ac.
Rmdr. 118.62 Ac.
W.S. & DORA BARKER
NEW R/W 0.19 Ac.
P. ESMT. 0.49 Ac.
Rmdr. 4.81 Ac.
LEONARD THIEMAN
NEW R/W 0.16 Ac.
Rmdr. 4.84 Ac.
BAILEY V. & LILLIAN S. HUNT
NEW R/W 0.13 Ac.
Rmdr. 62.87 Ac.
ROY W. & EUNICE P. THIEMAN
NEW R/W 0.68 Ac.
Rmdr. 39.32 Ac.
IDA HAUBEIN
NEW R/W 1.38 Ac.
Rmdr. 78.62 Ac.
Note: See Plan Sh. No. 4 For Ent. Details Sta. 30+00 to 34+00
4.0' Rt Sta 53+10.1 Sec. Cor.
T-31 N TOWNSHIP Line T-30 N
R 27W
R 28W
S 4°24' E
S 4°31' E
R/W Markers ~ 6 Type B
R/W Markers ~ 10
NE4 SE4
36-31-28
SE4 SE4
36-31-28
1090
1080
+0.35%
+0.42%
+0.10%
100' V.C.
K= 66.5
P.I. +50
85.07
P.I. +82.5
91.05
U.F.L. 78.5
L.F.L. 78.2
U.F.L. 84.8
U.F.L. 84.0
U.F.L. 84.5
L.F.L. 84.0
300' V.C.
K= 750
SSD 1900'
Profile S.R. Lt. 34+46.7
Profile of S.R. Rt. & Lt.
BM "3 60d Spike in W. Root 18" Elm 63' Lt. Sta 34+70 Elv. 1083.41
BM "4 X on center of conc. Hdwl. 31" Rt. Sta 53+71 Elv. 1083.39
30 1 2 3 4 35 6 7 8 9 40 1 2 3 4 45 6 7 8 9 50 1 2 3 4 55 6 7 8 9 60



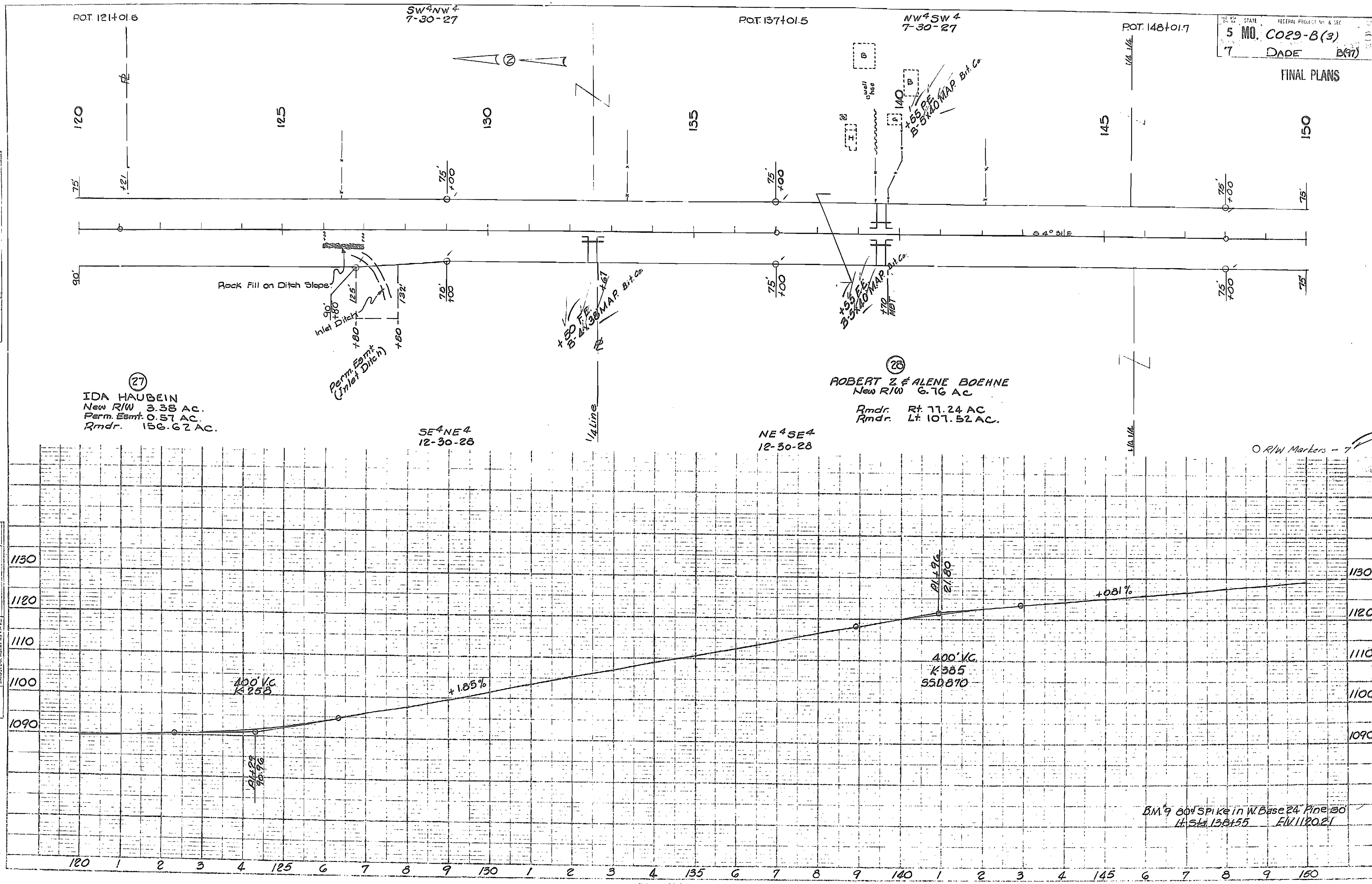
5 MO. C029-B(3) 6
7 DADE B(97)
FINAL PLANS
NW4NW4 6-30-27
SW4NW4 6-30-27
NW4SW4 6-30-27
POT. 71+01.5
22 BAILEY & LILIAN HUNT
New R/W 3.36 Ac.
Perm. Esmt. 0.69 Ac.
Rmdr. 156.64 Ac.
Perm. Esmt. (Culv. Outlet)
+20 42" x 96" Cl.III RCP
+20 D.A. .41 Ac. @ 0.5
+30 F.E. No P.
+30 P.E. No P.
R27W
R28W
S 4° 31' E
Interception Levee
23
JENNIE HEDEMANN
New R/W 4.93 Ac.
Temp. Esmt. .36 Ac.
Rmdr. 235.07 Ac.
1/4 1/4 Line
1/4 Line
NE4NE4 1-30-28
SE4NE4 1-30-28
NE4SE4 1-30-28
O R/W Markers - 10
+0.10%
-0.30%
300' V.C.
K-63.5
S.S.D. 1140
LFL 785
UFL 795
1090
1080
BM 5 X-on N.E. Cor. Conc. Curb For Cistern 98' Rt. Sta. 71+85 Elv. 1095.64
BM 6 X-on W. Conc. Hdwl. 1.46' Rt. Sta. 82+20 Elv. 1084.01
60 1 2 3 4 65 6 7 8 9 70 1 2 3 4 75 6 7 8 9 80 1 2 3 4 85 6 7 8 9 90
PLAN
PROFILE
PLATE 1 PLAN-PROFILE



PLAN

PROFILE

321



5 MO. C029-B(3)
7 DADE B(97)
FINAL PLANS
P.O.T. 121+01.6
SW4NW4 7-30-27
P.O.T. 137+01.5
NW4SW4 7-30-27
P.O.T. 148+01.7
Rock Fill on Ditch Slope
Inlet Ditch
Perm. Esmt. (Inlet Ditch)
+50 F.E. B-4x38 MAP Bit. Co.
+55 P.E. B-5x40 MAP Bit. Co.
+55 F.E. B-5x40 MAP Bit. Co.
1/4 Line
27
IDA HAUBEIN
New R/W 3.38 AC.
Perm. Esmt. 0.57 AC.
Rmdr. 156.62 AC.
SE4NE4 12-30-28
NE4SE4 12-30-28
28
ROBERT Z. & ALENE BOEHNE
New R/W 6.76 AC
Rmdr. Rt. 77.24 AC
Rmdr. Lt. 107.52 AC.
O R/W Markers - 7
400' V.C. K 258
+1.85%
400' V.C. K 385 SSD 870
+0.81%
B.M. 9 80d Spike in W. Base 24" Pine 30' Lt. Sta. 138+55 Elv. 1120.21
PLAN
PROFILE

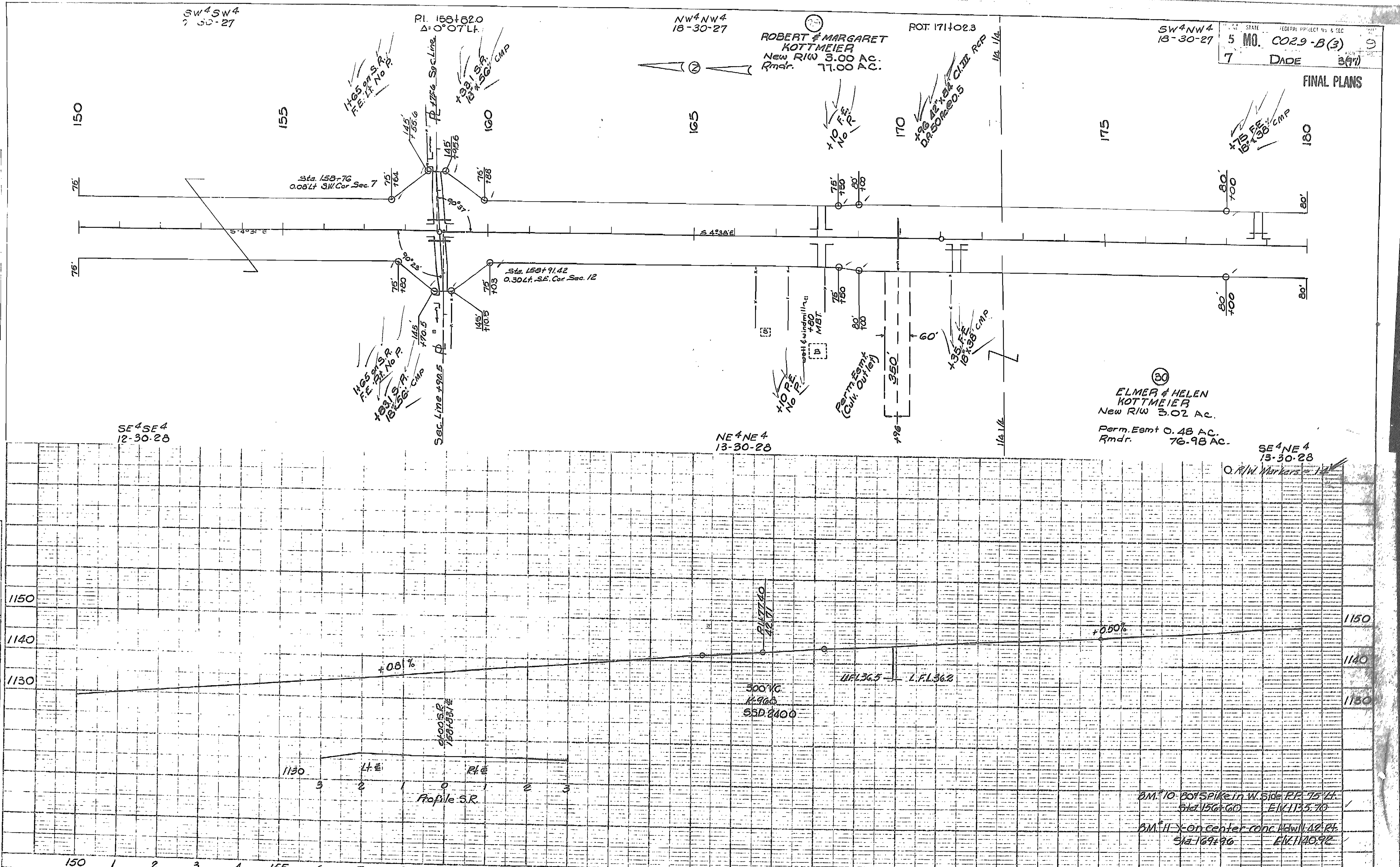
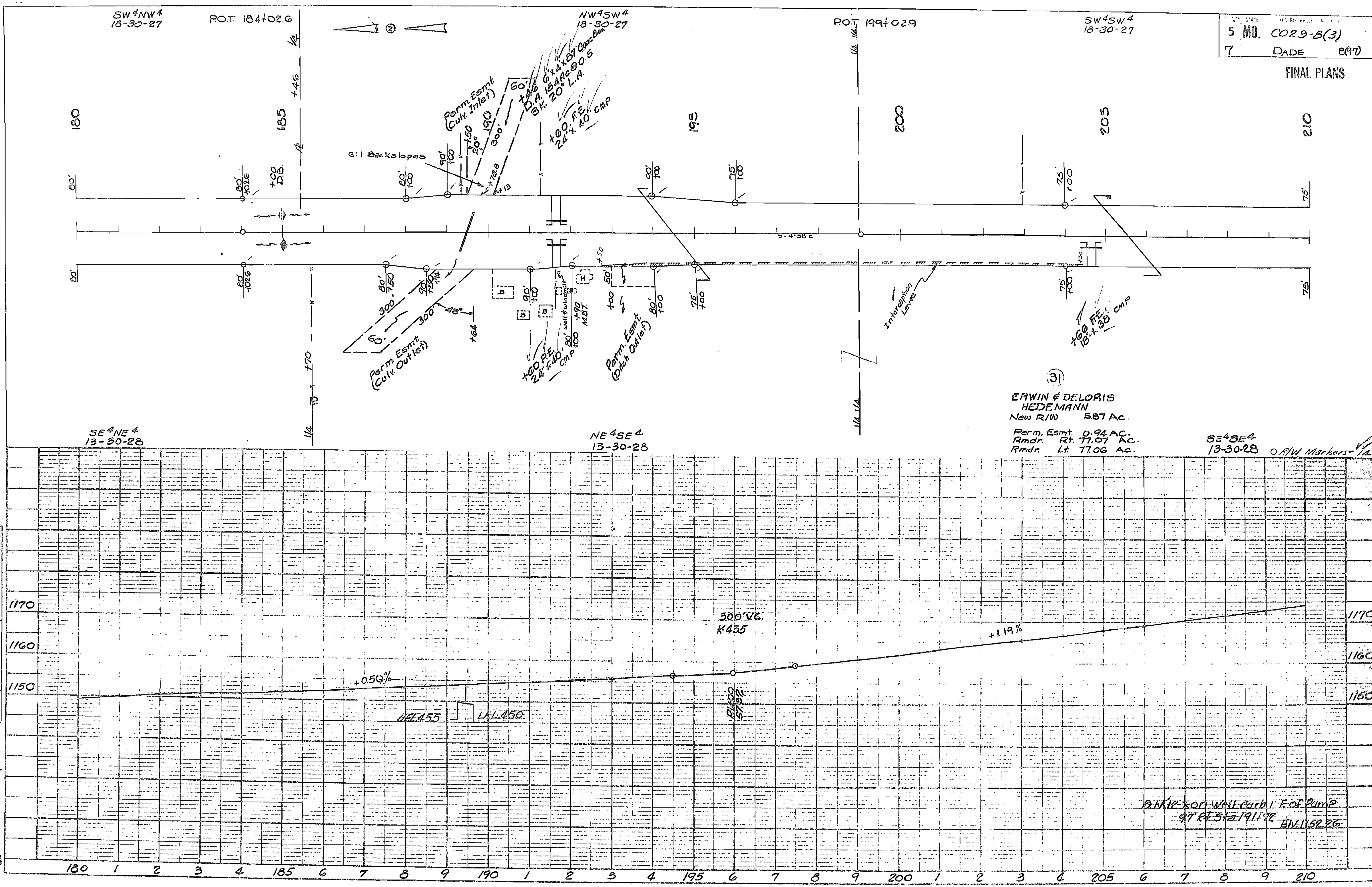
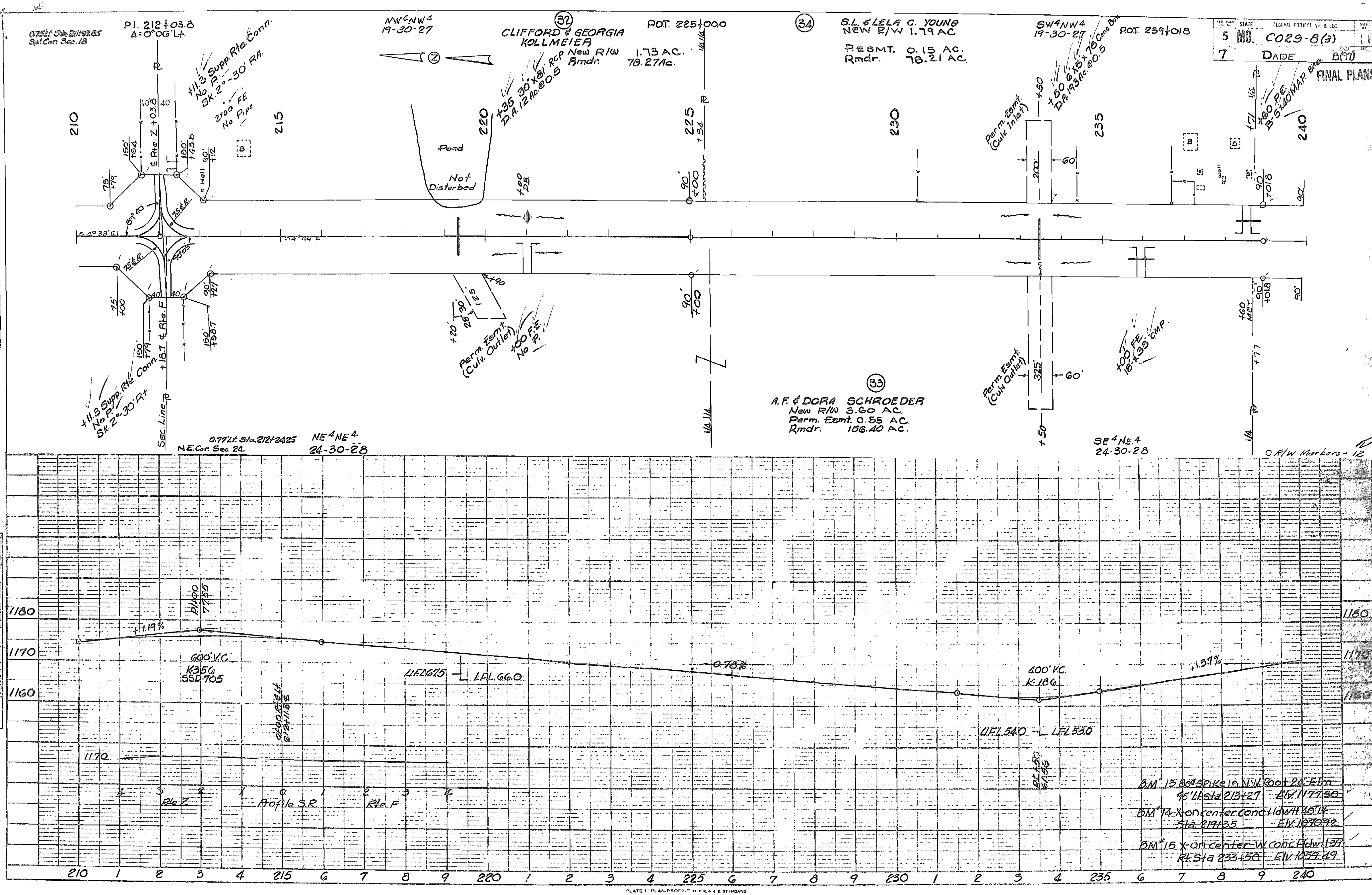


PLATE 1-PLAN-PROFILE
U. S. BLUE PRINT PAPER CO.-CHICAGO



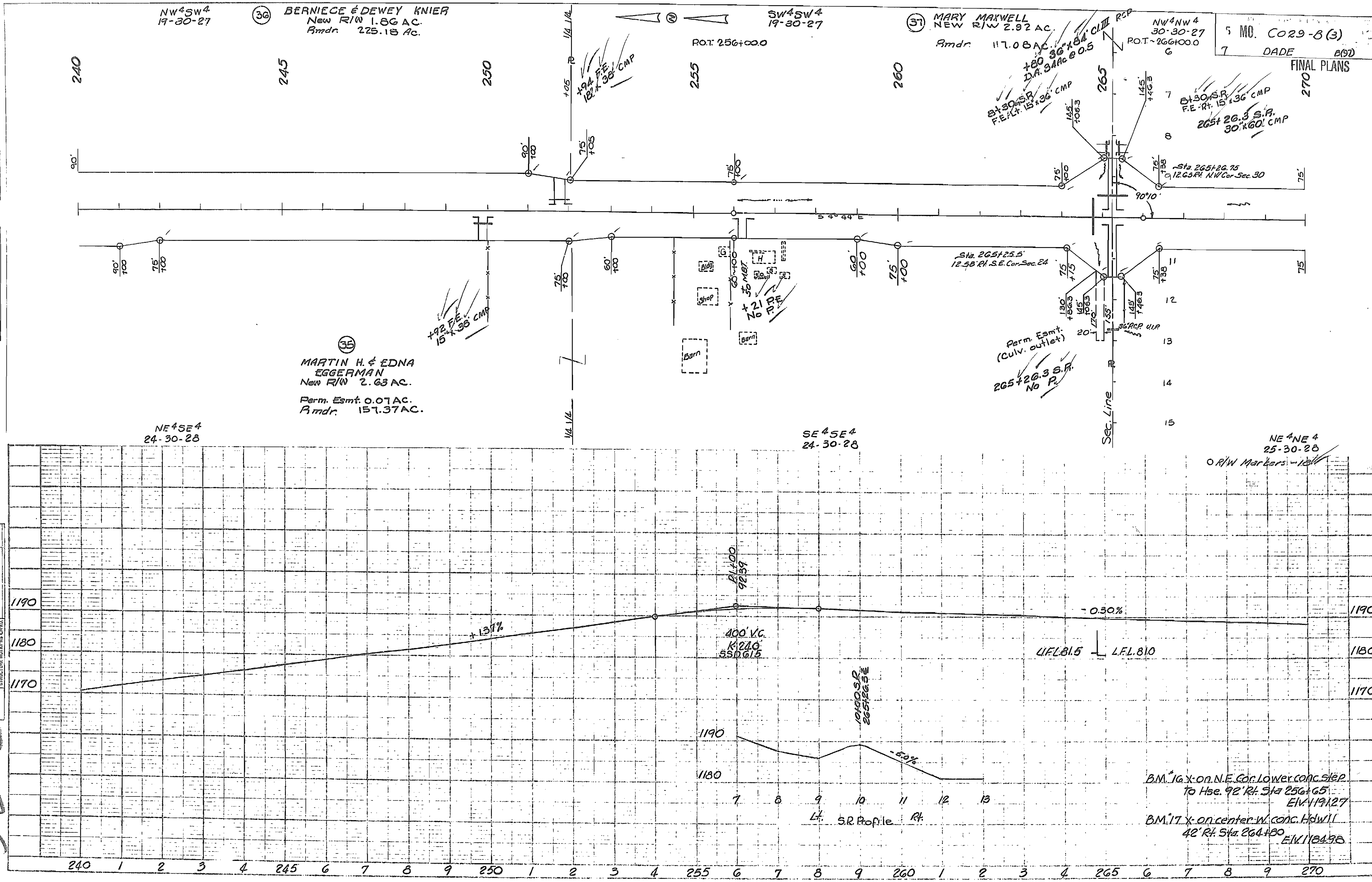
5 MO. C029-8(3)
7 DADE B(97)
FINAL PLANS
SW4NW4 18-30-27
P.O.T. 184+02.6
NW4SW4 18-30-27
P.O.T. 199+02.9
SW4SW4 18-30-27
180
185
190
195
200
205
210
6:1 Backslopes
Perm. Esmt. (Culv. Inlet)
+46 6'x4'x87' Conc Box D.A. 154 Ac @ 0.5 Sk. 20° L.A.
+00 F.E. 24"x40' CMP
Perm. Esmt. (Culv. Outlet)
+60 F.E. 24"x40' CMP
Perm. Esmt. (Ditch Outlet)
Interception Levee
+66 F.E. 18"x38' CMP
S 4°38' E
31
ERWIN & DELORIS HEDEMANN
New R/W 5.87 Ac.
Perm. Esmt. 0.94 Ac.
Rmdr. Rt. 77.07 Ac.
Rmdr. Lt. 77.06 Ac.
SE4NE4 13-30-28
NE4SE4 13-30-28
SE4SE4 13-30-28
O R/W Markers
1170
1160
1150
+0.50%
300' V.C. K 435
+1.19%
P.I. 196+00 57.32
UFL 455
LFL 450
B.M. 12 on Well Curb 1' E of Pump 97' Rt. Sta. 191+72 El. 1152.26
180 1 2 3 4 185 6 7 8 9 190 1 2 3 4 195 6 7 8 9 200 1 2 3 4 205 6 7 8 9 210

524

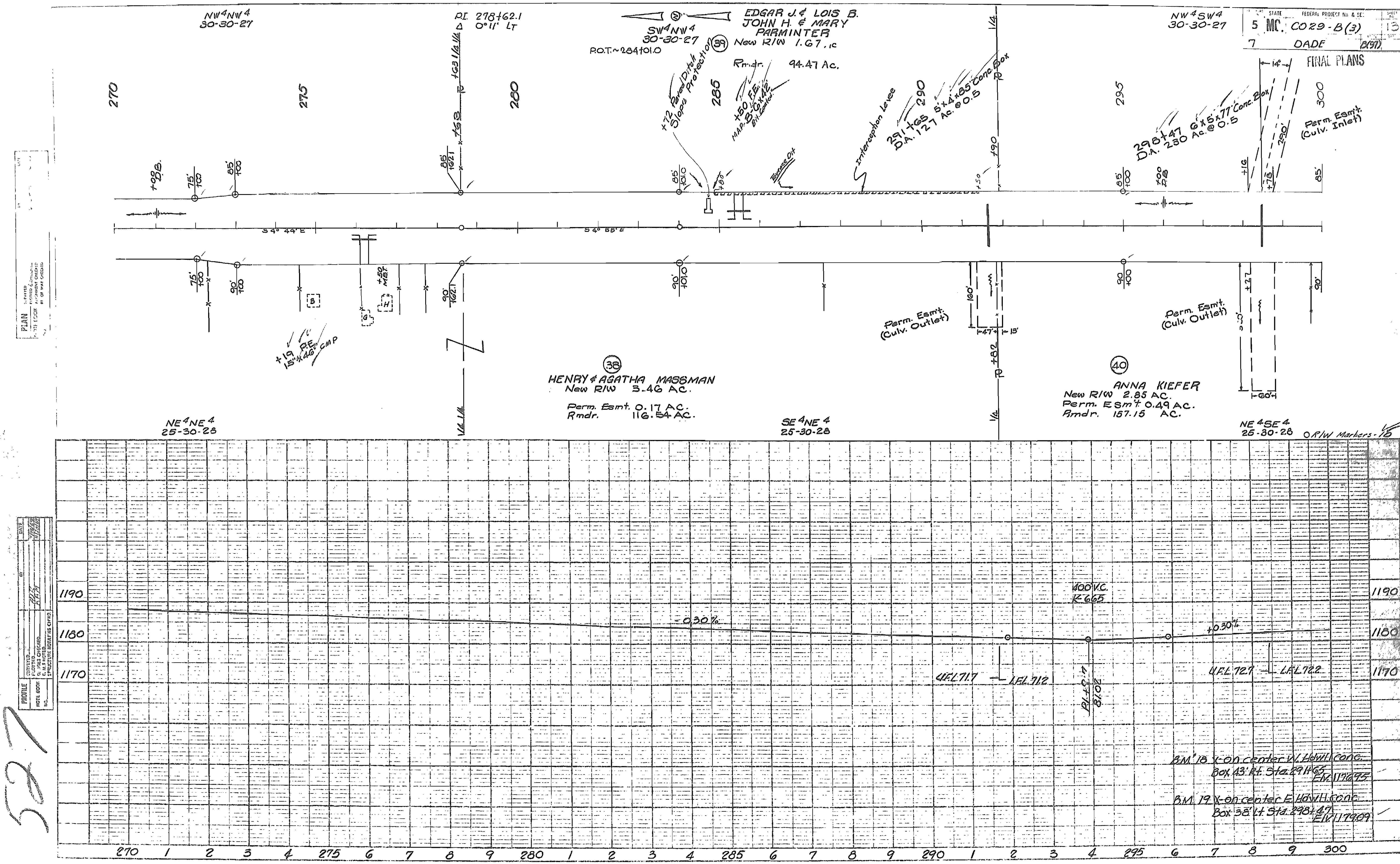


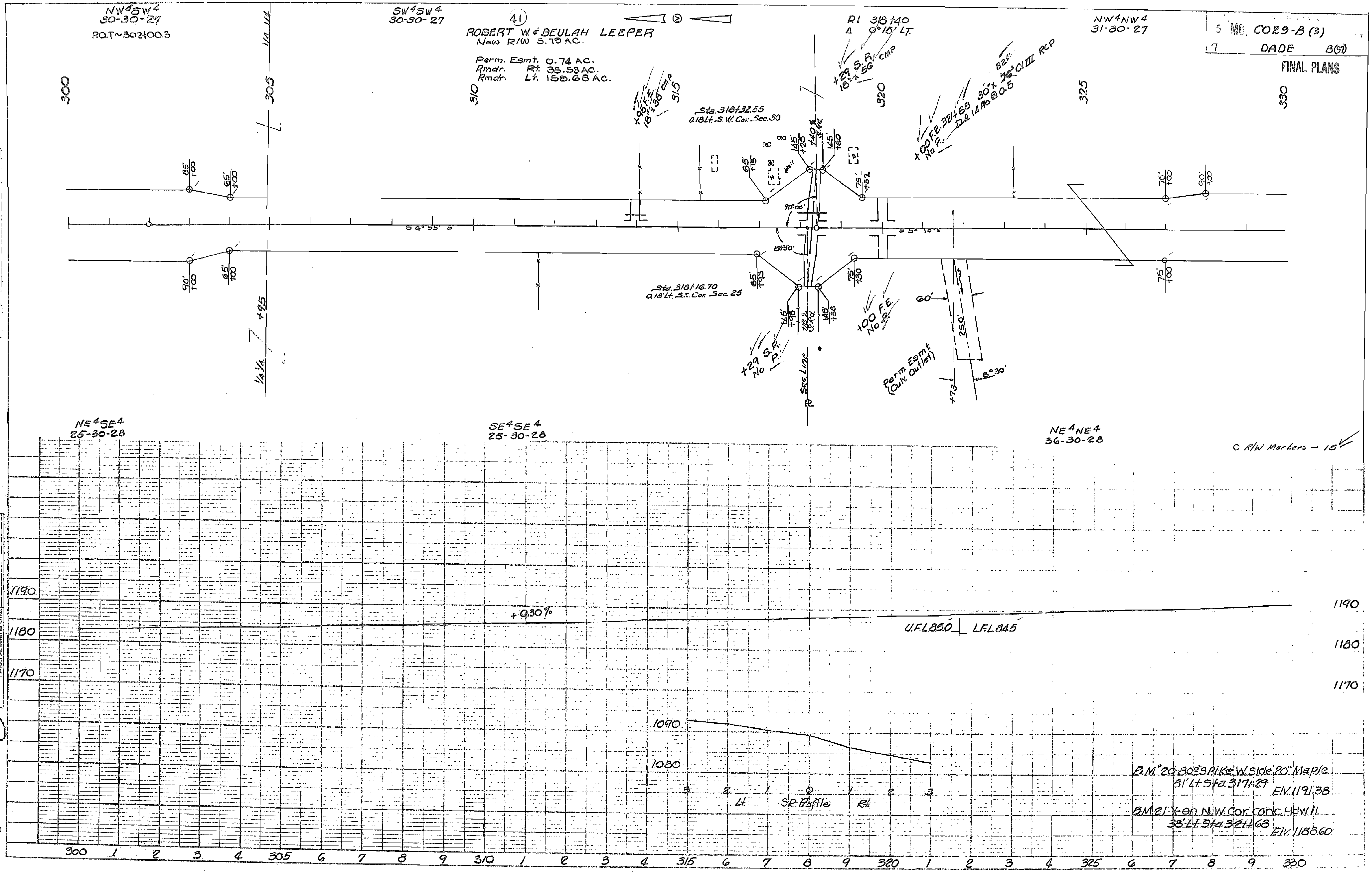
5 MO. C029-B(3)
7 DADE B(91)
FINAL PLANS
P.I. 212+03.8
Δ=0°06' Lt.
0.75' Lt. Sta. 211+82.85
Sec. Cor. Sec. 18
NW 4 NW 4
19-30-27
CLIFFORD & GEORGIA KOLLMEIER
New R/W 1.73 AC.
Rmdr. 78.27 Ac.
P.O.T. 225+00.0
S.L. & LELA C. YOUNG
NEW R/W 1.79 AC
P. ESMT. 0.15 AC.
Rmdr. 78.21 AC.
SW 4 NW 4
19-30-27
P.O.T. 239+01.8
+11.3 Supp. Rte. Conn.
No P.
Sk. 2°-30' Rt.
2+00 F.E.
No Pipe
+35 30"x81' RCP
D.A. 12 Ac. @ 0.5
Pond
Not Disturbed
+50 6'x5'x 78' Conc. Box
D.A. 193 Ac. @ 0.5
Perm. Esmt. (Culv. Inlet)
Perm. Esmt. (Culv. Outlet)
+00 F.E.
No P.
+00 F.E.
18"x 35' CMP
+60 P.E.
B-5 1-40 MAP Bitu.
+11.3 Supp. Rte. Conn.
No P.
Sk. 2°-30' Rt.
Sec. Line
+18.7 ℄ Rte. F
℄ Rte. Z +03.0
A.F. & DORA SCHROEDER
New R/W 3.60 AC.
Perm. Esmt. 0.55 AC.
Rmdr. 156.40 AC.
0.77' Lt. Sta. 212+24.25
N.E. Cor. Sec. 24
NE 4 NE 4
24-30-28
SE 4 NE 4
24-30-28
O R/W Markers - 12
210
215
220
225
230
235
240
1180
1170
1160
+1.19%
P.I. 100
77.55
600' V.C.
K-356
SSD 705
U.F.L. 67.5
L.F.L. 66.0
-0.78%
400' V.C.
K-186
+1.37%
U.F.L. 54.0
L.F.L. 53.0
Profile S.R.
Rte. Z
Rte. F
B.M. 13 80d Spike in N.W. Root 26" Elm
95' Lt. Sta. 213+29 Elv. 1177.30
B.M. 14 X on center Conc. Hdwll. 40' Lt.
Sta. 219+35 Elv. 1070.92
B.M. 15 X on center W. conc. Hdwl. 139'
Rt. Sta. 233+50 Elv. 1059.49
PLATE 1 - PLAN-PROFILE

525

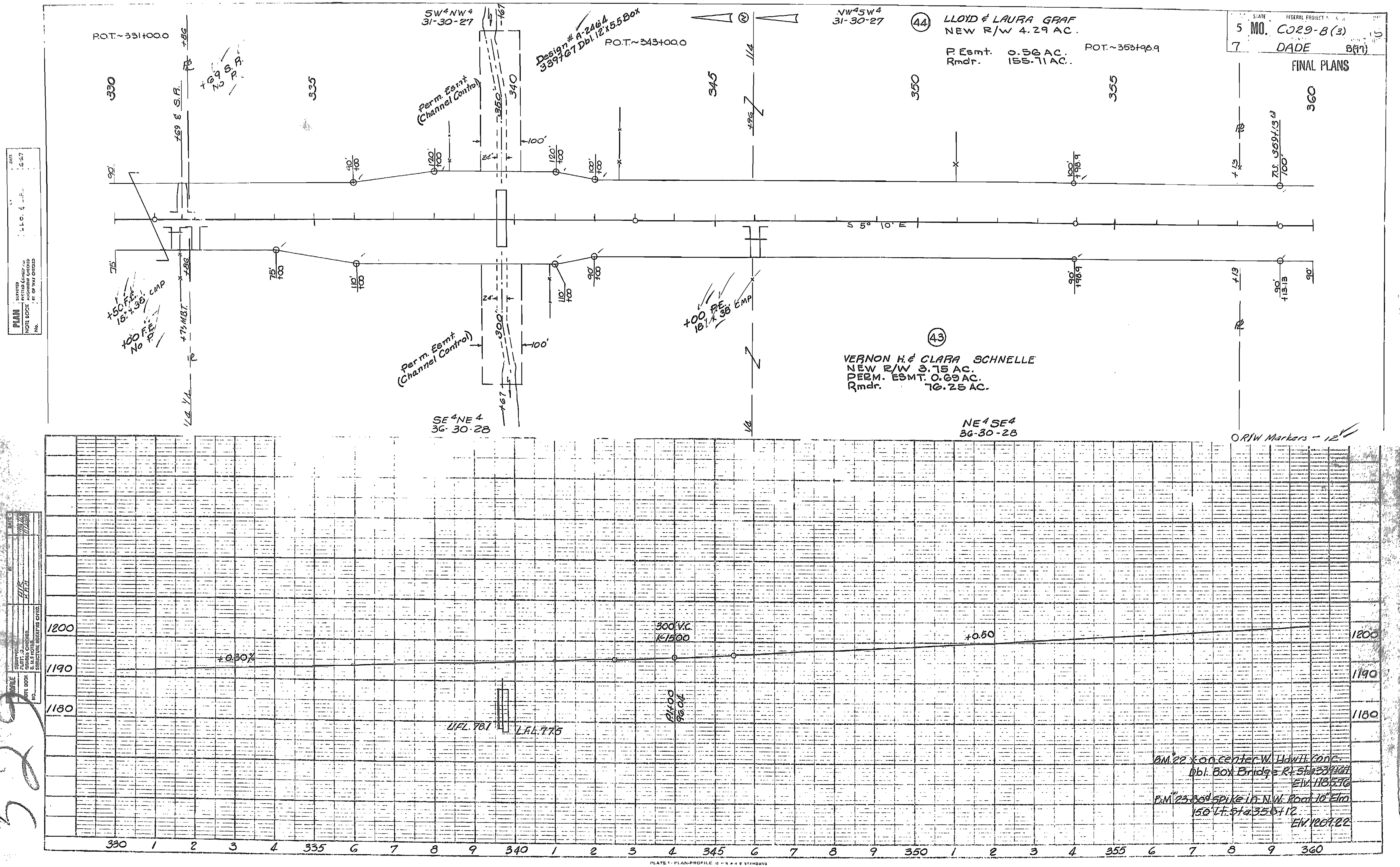


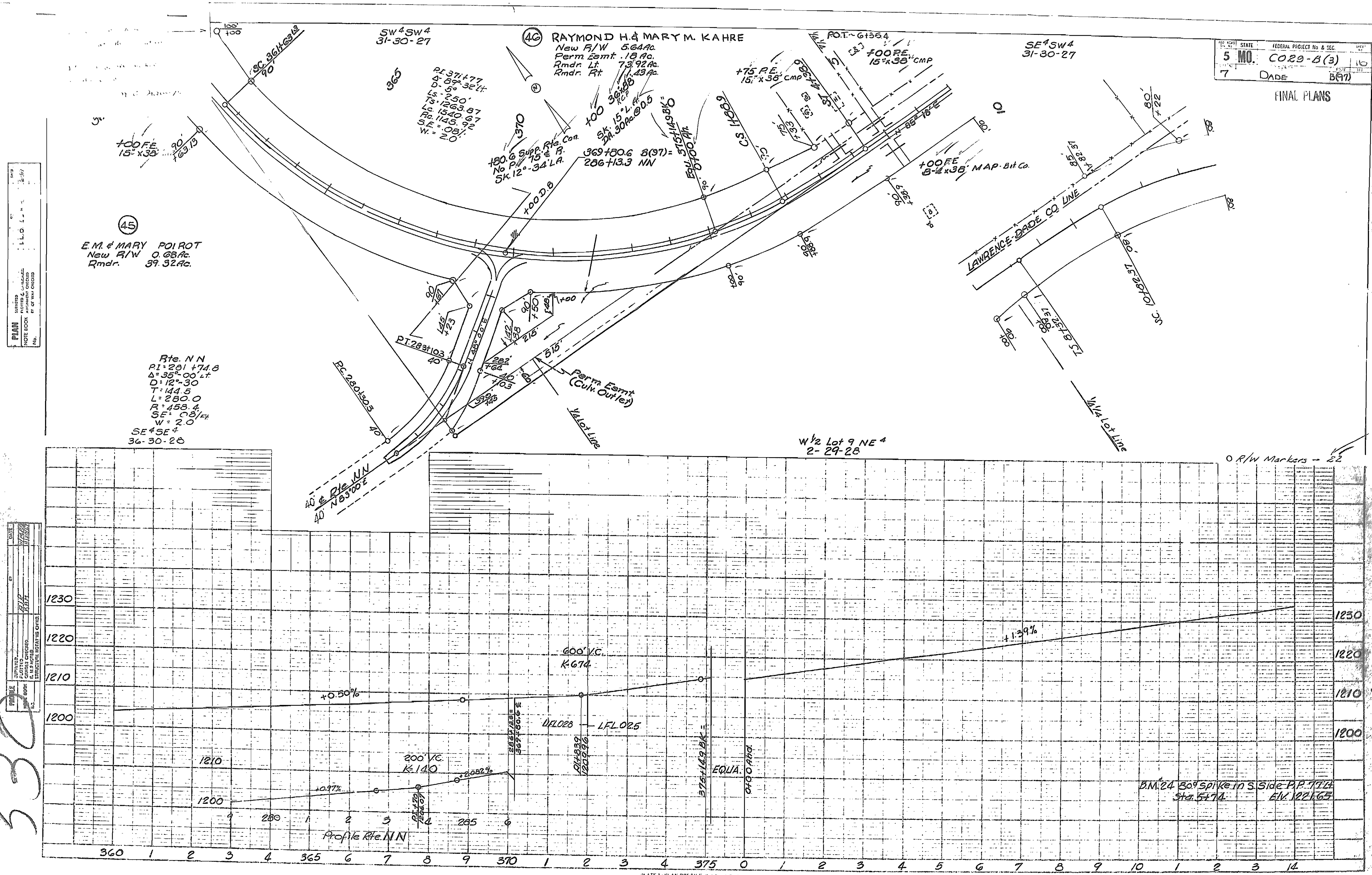
MO. C029-8(3)
DADE
FINAL PLANS
NW4SW4 19-30-27
36 BERNIECE & DEWEY KNIER
New R/W 1.86 AC.
Rmdr. 225.18 Ac.
SW4SW4 19-30-27
37 MARY MAXWELL
NEW R/W 2.92 AC.
Rmdr. 117.08 AC.
NW4NW4 30-30-27
P.O.T. 256+00.0
P.O.T.~266+00.0
+60 36"x64" Cl.III RCP D.A. 34Ac @ 0.5
+94 F.E. 18"x 38' CMP
8+30 S.R. F.E. Lt. 15"x 36' CMP
8+30 S.R. F.E. Rt. 15"x 36' CMP
265+26.3 S.R. 30"x 60' CMP
Sta. 265+26.75 12.63 Rt. NW Cor. Sec. 30
Sta. 265+25.5 12.58 Rt. S.E. Cor. Sec. 24
S 4°44' E
90°10'
+92 F.E. 15"x 36' CMP
+21 P.E. No P.
36" RCP U.P.
Perm. Esmt. (Culv. outlet)
265+26.3 S.R. No P.
Bldg
Shop
Barn
35 MARTIN H. & EDNA EGGERMAN
New R/W 2.63 AC.
Perm. Esmt. 0.07 AC.
Rmdr. 157.37 AC.
1/4 1/4
Sec. Line
NE4SE4 24-30-28
SE4SE4 24-30-28
NE4NE4 25-30-28
O R/W Markers - 18
+1.37%
-0.30%
P.I. 400 92.39
400' V.C. K-240 SSD 615
U.F.L. 81.5
L.F.L. 81.0
10+00 S.R. 265+26.3 ℄
-6.0%
Lt. S.R. Profile Rt.
B.M. 16 X on N.E. Cor. Lower conc. step To Hse. 92' Rt. Sta. 256+65 Elv. 1191.27
B.M. 17 X on center W. conc. Hdwll 42' Rt. Sta. 264+80 Elv. 1184.98
240 245 250 255 260 265 270
1170 1180 1190


5 MO. C029-B(3) 13
7 DADE
FINAL PLANS
NW4 NW4 30-30-27
P.I. 278+62.1 Δ 0°11' LT
SW4 NW4 30-30-27
P.O.T.~284+01.0
EDGAR J. & LOIS B. JOHN H. & MARY PARMINTER
39 New R/W 1.67 Ac
Rmdr. 94.47 Ac.
+72 Paved Ditch Slope Protection
+50 F.E. MAP-B-Gx42 Bit. Coated
Interception Levee
291+65 5'x4'x85' Conc. Box D.A. 127 Ac. @ 0.5
NW4 SW4 30-30-27
298+47 6'x5'x77' Conc. Box D.A. 230 Ac. @ 0.5
Perm. Esmt. (Culv. Inlet)
S 4° 44' E
S 4° 55' E
+19 P.E. 15"x46" CMP
38 HENRY & AGATHA MASSMAN
New R/W 3.46 AC.
Perm. Esmt. 0.17 AC.
Rmdr. 116.54 AC.
Perm. Esm't. (Culv. Outlet)
40 ANNA KIEFER
New R/W 2.85 AC.
Perm. Esm't 0.49 AC.
Rmdr. 157.15 AC.
NE4 NE4 25-30-28
SE4 NE4 25-30-28
NE4 SE4 25-30-28
O R/W Markers-15
400 V.C. K-665
-0.30%
+0.30%
UFL 71.7
LFL 71.2
UFL 72.7
LFL 72.2
BM 18 X-on center W. Hdwll. conc. Box 43' Rt. Sta. 291+65 Elv. 1176.95
BM 19 X-on center E. Hdwll. conc. Box 38' Lt. Sta. 298+47 Elv. 1179.09
1190
1180
1170
270 275 280 285 290 295 300
PLATE 1 - PLAN-PROFILE

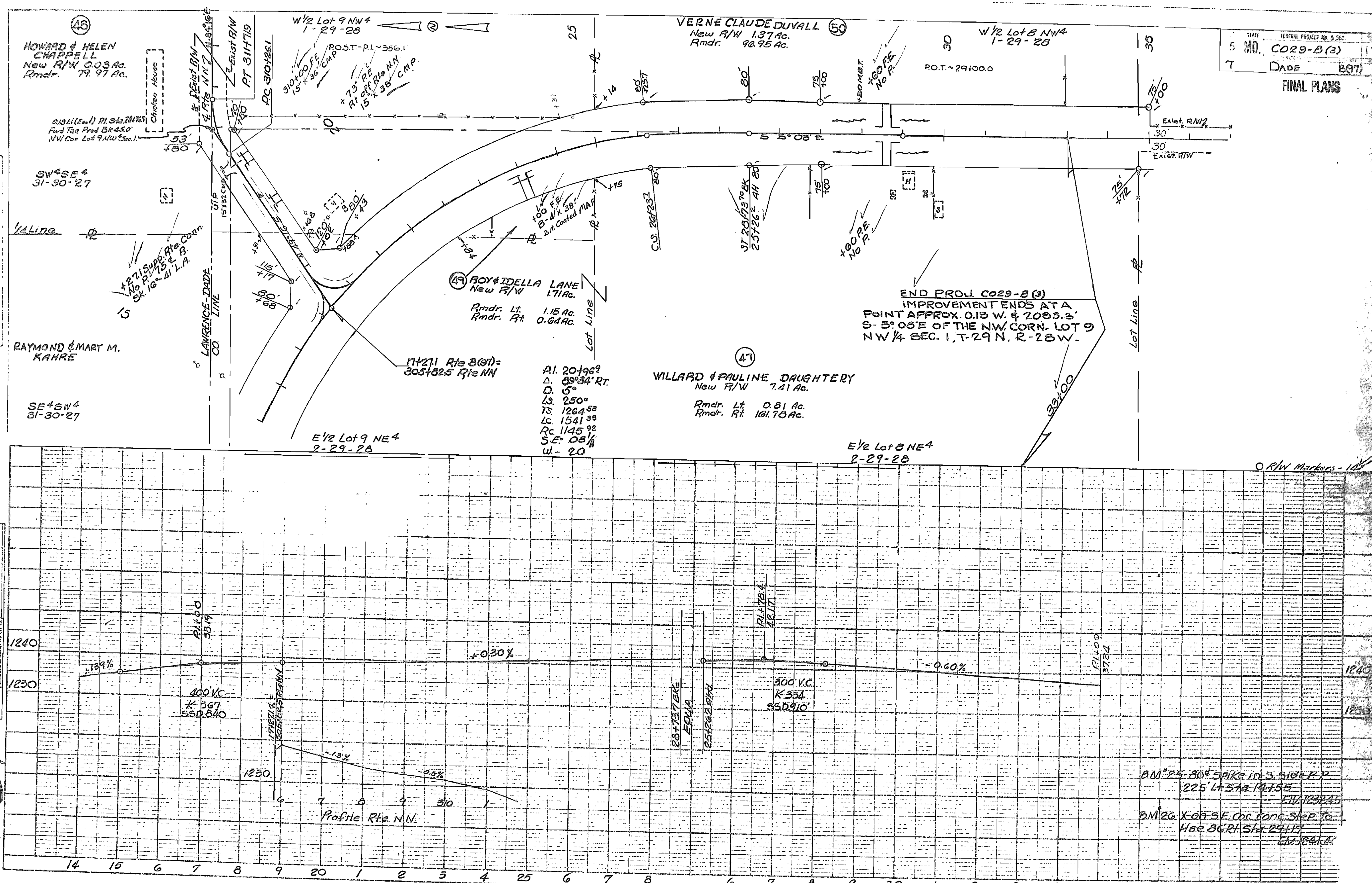

5 MO. C029-B (3)
7 DADE 8(9)
FINAL PLANS
NW4SW4 30-30-27
P.O.T~302+00.3
SW4SW4 30-30-27
41
ROBERT W. & BEULAH LEEPER
New R/W 5.79 AC.
Perm. Esmt. 0.74 AC.
Rmdr. Rt. 38.53 AC.
Rmdr. Lt. 158.68 AC.
P.I. 318+40
Δ 0°15' LT.
NW4NW4 31-30-27
300
305
310
315
320
325
330
Sta. 318+32.55
0.18 Lt. S.W. Cor. Sec. 30
Sta. 318+16.70
0.18' Lt. S.E. Cor. Sec. 25
S 4° 55' E
S 5° 10' E
+29 S.R. 18" x 56' CMP
+00 F.E. 321+68 30" x 82' Cl. III RCP
Perm. Esmt. (Culv. Outlet)
Sec. Line
1/4 1/4
NE4SE4 25-30-28
SE4SE4 25-30-28
NE4NE4 36-30-28
O R/W Markers ~ 15
+0.30%
U.F.L. 85.0 L.F.L. 84.5
1190
1180
1170
1090
1080
S.R. Profile
BM 20 80d Spike W. Side 20" Maple 81' Lt. Sta. 317+29 Elv. 1191.38
BM 21 X on N.W. Cor. Conc. Hdwll. 38' Lt. Sta. 321+68 Elv. 1188.60
PROFILE
PLAN

53


5 MO. C029-B(3) 15
7 DADE 8(97)
FINAL PLANS
(44) LLOYD & LAURA GRAF
NEW R/W 4.29 AC.
P. Esmt. 0.56 AC.
Rmdr. 155.71 AC.
P.O.T.~353+98.9
P.O.T.~331+00.0
P.O.T.~343+00.0
SW4NW4
31-30-27
NW4SW4
31-30-27
Design # A-2464
339+67 Dbl. 12'x5.5 Box
Perm. Esmt. (Channel Control)
S 5° 10' E
(43) VERNON H. & CLARA SCHNELLE
NEW R/W 3.75 AC.
PERM. ESMT. 0.69 AC.
Rmdr. 76.25 AC.
SE4NE4
36-30-28
NE4SE4
36-30-28
R/W Markers – 12
+50 F.E. 15'x 38' CMP
+00 F.E. No P.
+00 P.E. 18'x 38' CMP
+69 S.R. No P.
300 V.C.
K-1500
+0.30%
+0.50
P.I. 4+00
1190.04
U.F.L. 76.1
L.F.L. 77.5
B.M. 22 X on center W. Hdwll. Conc.
Dbl. Box Bridge Rt. Sta. 339+67
Elv. 1185.76
B.M. 23 30d spike in N.W. Root 10" Elm
150' Lt. Sta. 358+12
Elv. 1209.22
1200
1190
1180
330 1 2 3 4 335 6 7 8 9 340 1 2 3 4 345 6 7 8 9 350 1 2 3 4 355 6 7 8 9 360
PLATE 1 - PLAN-PROFILE
U. S. BLUE PRINT PAPER CO. - CHICAGO

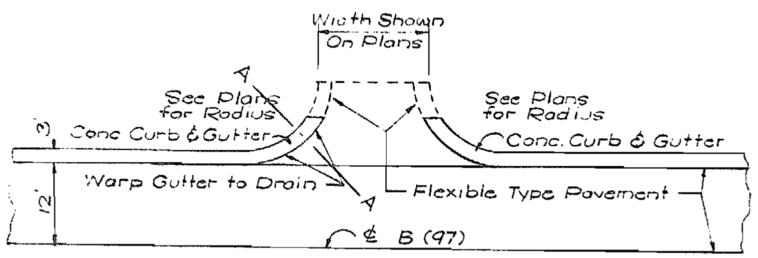


5 MO. C029-B(3) 16
7 DADE B(97)
FINAL PLANS
46 RAYMOND H. & MARY M. KAHRE
New R/W 5.64Ac.
Perm. Esmt. .18Ac.
Rmdr. Lt. 73.92Ac.
Rmdr. Rt. 1.43Ac.
SW4 SW4
31-30-27
SE4 SW4
31-30-27
P.I. 371+77
Δ- 89°32' Lt.
D- 5°
Ls.-250'
Ts.-1263.87
Lc.-1540.67
Rc.-1145.92
S.E.=.08'
W.=2.0'
369+80.6 B(97)=
286+13.3 NN
Equ. 375+149 Bk=
0+00 Ah.
C.S. 11+83.9
P.O.T.~6+36.4
+00 P.E. 15"x38" CMP
+75 P.E. 15"x38" CMP
+00 F.E. B-4x38" MAP-Bit Co.
+00 F.E. 15"x38"
LAWRENCE-DADE CO. LINE
1/4 1/4 Lot Line
1/2 Lot Line
Perm. Esmt. (Culv. Outlet)
45 E.M. & MARY POIROT
New R/W 0.68Ac.
Rmdr. 39.32Ac.
Rte. NN
PI=281+74.8
Δ=35°-00' Lt.
D: 12°-30
T: 144.5
L= 280.0
R= 458.4
SE= .08/Ft.
W= 2.0
SE4 SE4
36-30-28
PC 280+03
PT 283+103
40' ℄ Rte. NN
N 83°00' E
W1/2 Lot 9 NE4
2-29-28
O R/W Markers - 22
600' V.C.
K-674
+0.50%
+1.39%
LFL028
LFL025
200' V.C.
K-140
+0.97%
+2.082%
EQUA.
Profile Rte NN
B.M. 24 80d Spike in S. Side P.P. 774
Sta. 5+74 Elv. 1221.65
1230
1220
1210
1200
360 1 2 3 4 365 6 7 8 9 370 1 2 3 4 375 0 1 2 3 4 5 6 7 8 9 10 1 2 3 14
PLAN
PROFILE

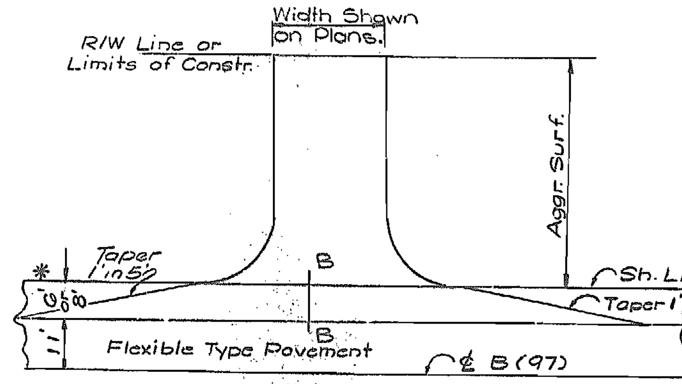

5 MO. C029-B(3) 17
7 DADE B(97)
FINAL PLANS
HOWARD & HELEN CHAPPELL
New R/W 0.03 Ac.
Rmdr. 79.97 Ac.
W½ Lot 9 NW4
1-29-28
VERNE CLAUDE DUVALL
New R/W 1.37 Ac.
Rmdr. 96.95 Ac.
W½ Lot 8 NW4
1-29-28
P.O.T. ~ 29+00.0
S 5° 08' E.
Exist. R/W
SW4SE4
31-30-27
¼ Line
LAWRENCE-DADE CO. LINE
RAYMOND & MARY M. KAHRE
SE4SW4
31-30-27
ROY & IDELLA LANE
New R/W 1.71 Ac.
Rmdr. Lt. 1.15 Ac.
Rmdr. Rt. 0.64 Ac.
17+27.1 Rte B(97)= 305+82.5 Rte NN
P.I. 20+96.9
Δ. 89°34' RT.
D. 5°
LS. 250°
TS. 1264.53
Lc. 1541.33
Rc. 1145.92
S.E. .08'/ft
W.- 2.0
WILLARD & PAULINE DAUGHTERY
New R/W 7.41 Ac.
Rmdr. Lt. 0.81 Ac.
Rmdr. Rt. 161.78 Ac.
END PROJ. C029-B(3)
IMPROVEMENT ENDS AT A POINT APPROX. 0.13 W. & 2083.3' S-5° 08'E OF THE N.W. CORN. LOT 9 NW¼ SEC. 1, T-29 N, R-28 W.
E½ Lot 9 NE4
2-29-28
E½ Lot 8 NE4
2-29-28
O R/W Markers - 14
+.139%
+0.30%
-0.60%
400' V.C.
K-367
SSD 840
300' V.C.
K-334
SSD 910'
28+13.7 BK= EQUA.
25+26.2 Ahd.
Profile Rte N.N.
BM 25 80d Spike in S. side P.P. 22.5' Lt. Sta. 14+55 El. 1232.45
BM 26 X on S.E. Cor. Conc. Step to Hse 86' Rt. Sta. 29+17 El. 1241.4
PLATE 1 - PLAN-PROFILE
33/

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.	C029-B(3)	19
DIST. NO.	COUNTY		ROUTE
7	DADE		B(97)

FINAL PLANS

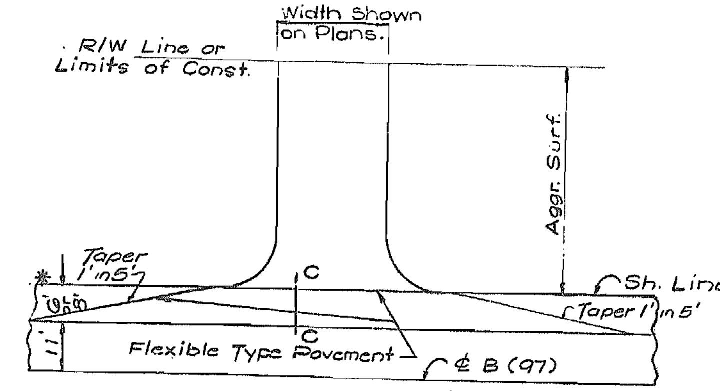


FLEXIBLE TYPE PAVED APPROACHES WITH CONC. CURB & GUTTER

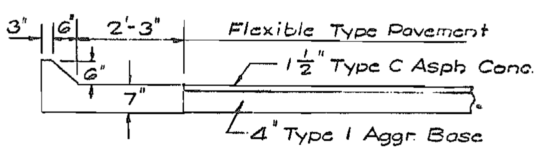


COMMERCIAL ENTRANCES & SIDE ROAD APPRS.

* 6' Shldr. Sta. 213+00 to End of Project
8' Shldr. Sta. 55+00 to 213+00

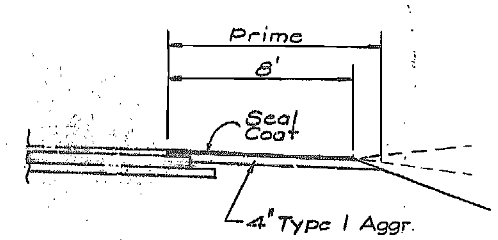


PRIVATE ENTRANCES

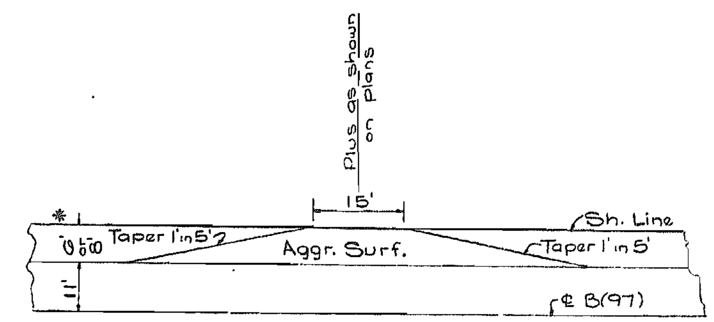


SECTION A-A

Flexible Type Paved Approaches With Conc Curb & Gutter



SECTION B-B
SECTION C-C



MAIL BOX TURNOUT

Note on plans as M.B.T.

SPECIAL SHEET NO. 1

FINAL SURVEY NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

ORIGINAL SURVEY NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

32

LIST OF STANDARD PLANS

PROJ.	SHEET
C029-B(2) & (3)	20
CO. DADE & LAWRENCE	**RTE.** B(97)

53.41		(1-1-67)	21.70		(2-1-67)
54.00		(12-1-67)	21.92		(2-1-67)
61.00		(6-1-64)	43.10		(12-7-64)
72.00	1 OF 5	(6-19-61)	53.15	1 OF 3	(9-12-61)
72.00	2 OF 5	(6-19-61)	53.15	2 OF 3	(9-12-61)
72.00	3 OF 5	(6-19-61)	53.15	3 OF 3	(9-12-61)
72.00	4 OF 5	(6-19-61)	53.20	1 OF 3	(9-15-61)
72.00	5 OF 5	(6-19-61)	53.20	2 OF 3	(9-15-61)
80.40		(9-10-61)	53.20	3 OF 3	(9-13-61)
80.44		(10-20-61)	53.24		(10-6-61)
80.46		(1-1-61)	53.40		(1-1-67)
84.01		(11-1-63)			
84.03		(6-1-61)			
85.00		(6-62)			
85.10		(1-1-61)			
87.00		(6-64)			
87.10	1 OF 4	(7-68)			
87.10	2 OF 4	(7-68)			
87.10	3 OF 4	(7-68)			
87.10	4 OF 4	(7-68)			
87.20		(3-1-68)			
89.00		(8-67)			
21.40		(4.64)			
21.50		(9-1-65)			
21.51		(9-1-65)			
21.55		(5-1-66)			
21.60		(12-7-64)			

HRS

562-13(1935)

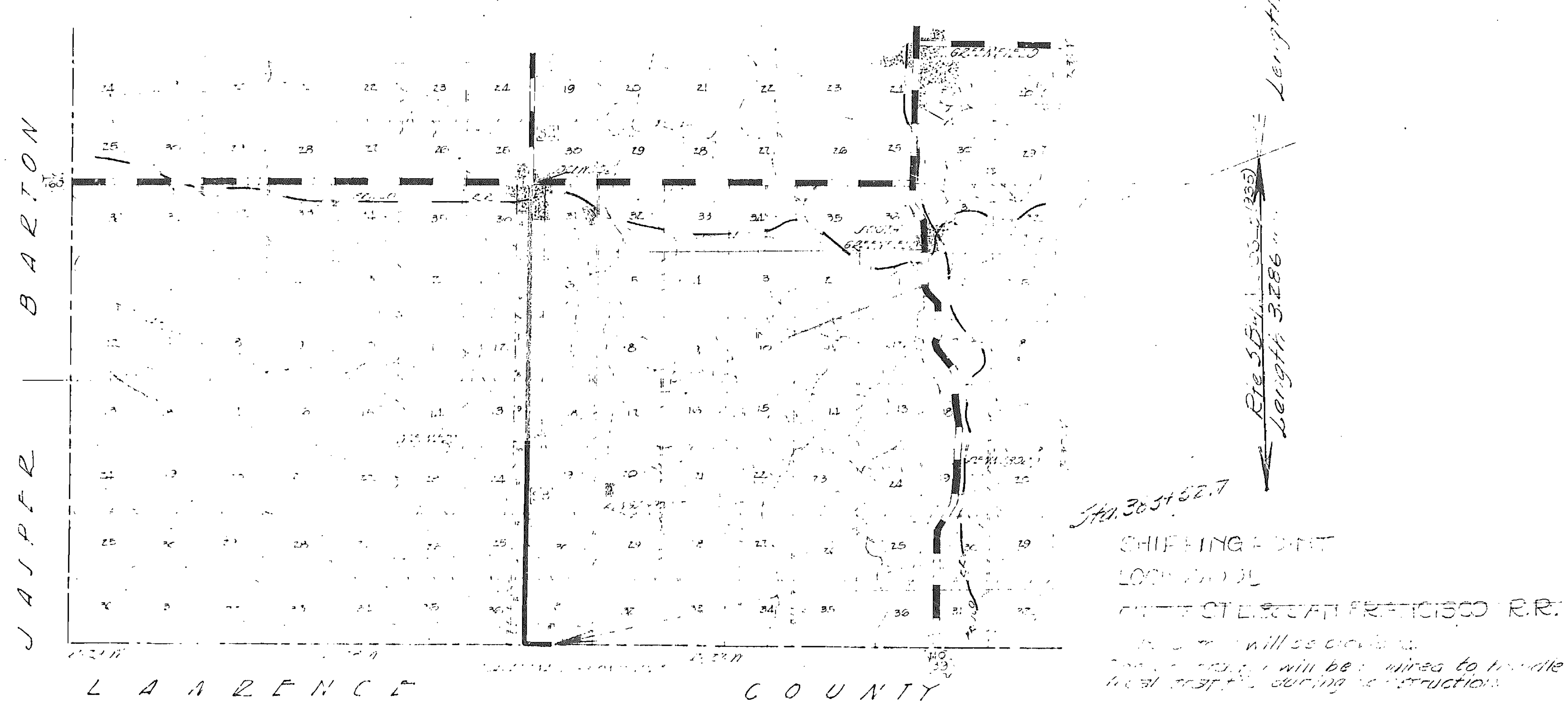
7 DADE J.B.

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

DADE COUNTY

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



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE
COUNTY LINE
CITY, VILLAGE OR BOROUGH
TOWNSHIP LINE
SECTION LINE
GRANT LINE
FENCE LINE
GUARD RAIL
UNFENCED PROPERTY
RIGHT OF WAY LINE
TRAVELED WAY
RAILROADS
RETAINING WALL
BASE OR SURVEY LINE

LEVEE
CULVERTS
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE OR TELEGRAPH POLE
MARSH
HEDGE
GROUND ELEVATION — DATUM LINE
GRADE ELEVATION — GRADE LINE
SURFACE LINE
GRADE LINE

SUBMITTED [redacted]

CHIEF ENGINEER MO. STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL [redacted]

DISTRICT ENGINEER - DISTRICT NO. 5

RECOMMENDED FOR APPROVAL [redacted]

CHIEF ENGINEER BUREAU PUBLIC ROADS

APPROVED [redacted]

DIRECTOR BUREAU OF PUBLIC ROADS

223

Name of Road LOCKWOOD, SOUTH

Type of Improvement 24' GRADED EARTH

MISSOURI STATE HIGHWAY COMMISSION

ESTIMATE SHEET

County of DADE

Length 3.977 Miles

FED. ROAD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	NRS 562-A	1935	2-A	
DIV. No.	COUNTY			ROUTE	SEC. No.
7	DADE			5B	

EXCAVATION

STATION	CL. "A"	CL. "A" Bor.	CL. "C"	OVERHAUL	MACH. GRADING	EMB.
0+00						
24+39	No Work					
29+00					4.61	
30+00	57					63
51+00					21.00	
55+00	431					480
77+00					22.00	
84+00	698					698
103+00			36		19.00	
111+80	778			3		874
118+00	593					799
123+00	455					397
127+00	328					242
150+00			111		23.00	
180+00			40		30.00	
186+00		30			6.00	
191+00	146	824				1057
210+00			28		19.00	
Sub-Totals	3486	854	215	3	144.61	4610
Crown Ent.	22	25				38
Pipe Ent.	65	141				211
Tail Ditches	220					
Grand Totals	3793	1020	215	3	144.61	4859

CLEARING & GRUBBING

SHEET No.	CLEARING	GRUBBING
3	3	1
4	42	2
5	28	0
6	90	0
7	136	0
8	42	3
9	52	39
Total Units	393	45
	87	12
Acres	4.5	0.5

HEDGE PULLING

SHEET No.	100 Ft.
3	.80
4	1.85
5	.25
6	.55
7	26.60
8	12.45
9	0.00
Total	42.50

TAIL DITCHES

STATION	SIDE	CU. YDS.
29+50	Rt.	37
82+00	Lt.	14
114+12	Lt.	140
169+88	Rt.	29
Total		220

REINFORCED CONCRETE BOX CULVERTS

STATION	STANDARD	SIZE	LENGTH	CONCRETE	REINF.	EXCAV.	REMARKS
29+50	C-424	6x2	26	12.63	1215	38	9" Hd'w'ls 1 Ft. Fill
53+70	C-243	3x2	27	7.73	1173	24	"
82+00	C-243	3x2	26	7.51	1142	19	"
104+85	C-424	6x2	26	12.63	1215	30	" 9' Fill
106+08	C-243	3x2	24	7.06	1081	20	5 R.R. 9" Hd'w'ls 9' Fill
114+21	C-424	6x3	31	17.16	1673	48	30° Skew 9" Hd'w'ls 1 Ft. Fill
189+64	C-424	6x3	26	14.43	1361	29	9" Hd'w'ls 1 Ft. Fill
			Totals	79.15	8860	208	

CROSS ROAD PIPE CULVERTS

STATION	24"	30"	CULV. EXC.
52+50	36'		16
169+88		36'	17
Totals	36	36	33

CULVERT REMOVALS

STATION	KIND	SIDE	CULV. EXC.
39+28	V.C.P.	Lt.	1
52+78	Conc. Box	℄	12
53+32	Conc. Box	℄	5
82+32	Conc. Box	℄	18
105+99	Conc. Box	℄	27
114+08	Conc. Box	℄	10
139+49	Conc. Box	Lt.	5
141+90	Conc. Box	Lt.	5
141+93	Conc. Box	Rt.	5
158+61	C.I.P.	Lt.	2
158+75	Conc. Box	Rt.	5
170+18	Conc. Box	℄	7
		Total	102

FARM ENTRANCE & SIDE ROAD PIPE CULVERTS

STATION	KIND	SIDE	15"	18"	24"	CL. "A" EXC.	BORROW	CULV. EXC.	EMB.
26+60	F.E.	Rt.			24'	1	5	4	8
28+62	Alley	Lt.			24'	0	9	3	10
31+70	F.E.	Lt.			24'	0	15	1	13
32+57	F.E.	Rt.		20'		0	9	1	8
34+41	F.E.	Rt.		20'		1	4	1	5
37+74	F.E.	Lt.		20'		5	1	1	6
39+30	F.E.	Lt.	20'			5	0	1	5
40+28	F.E.	Rt.	20'			3	4	1	7
41+37	F.E.	Rt.		20'		4	2	1	6
42+35	F.E.	Lt.	20'			5	2	1	7
66+21	F.E.	Lt.	20'			1	5	1	6
66+26	F.E.	Rt.	20'			1	5	1	6
66+47	F.E.	Lt.	20'			1	5	1	6
69+68	F.E.	Rt.	20'			0	7	1	7
89+00	F.E.	Rt.	20'			5	1	2	7
101+25	F.E.	Lt.	20'			3	0	2	4
106+55	Walk Ent.	Lt.		6		0	0	1	5
132+55	F.E.	Rt.			24'	3	8	3	12
139+49	F.E.	Lt.			24'	6	8	2	13
141+93	F.E.	Rt.			24'	3	5	2	8
158+61	S.R.	Lt.		24'		0	8	2	8
158+75	S.R.	Rt.		30'		6	0	1	6
171+28	F.E.	Rt.		20'		0	7	1	7
178+75	F.E.	Lt.		20'		5	2	1	7
191+80	F.E.	Lt.			24	1	13	2	13
191+80	F.E.	Rt.			24	3	12	2	14
204+58	F.E.	Rt.	20'			3	4	1	7
		Totals	200'	180'	192'	65	141	41	211

LENGTH OF PROJECT

End of Project	Station	210+00	
Beginning of Project	Station	0+00	
Apparent Length		21000	Feet
Equations and Exceptions:			
Total Corrections		None	Feet
Net Length of Project		21000	Feet
21000 Feet ÷	5280 =	3.977	Miles

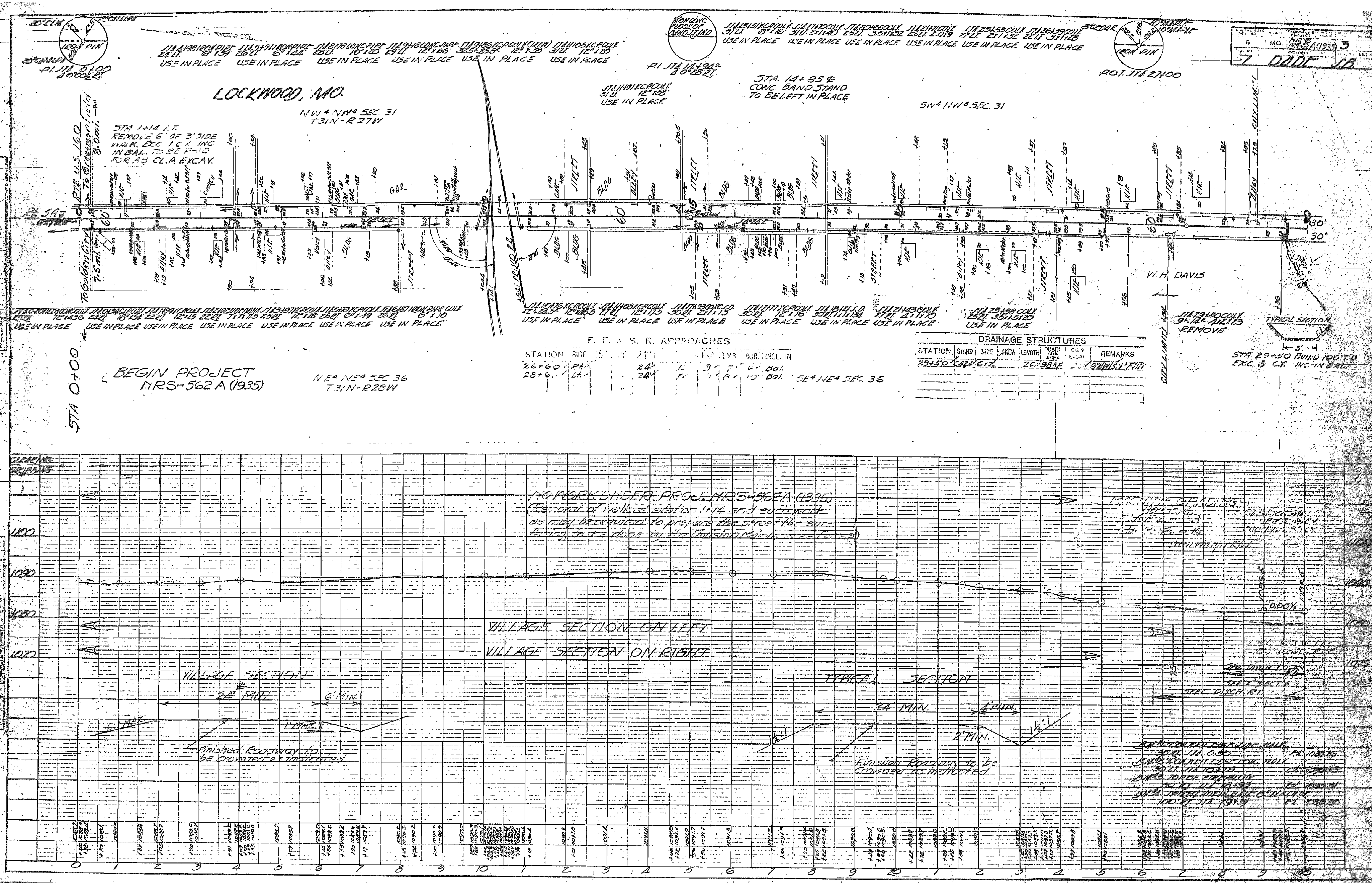
CROWN SIDE ROAD & FARM ENTRANCES

STATION	KIND	SIDE	CL. "A" EXC.	BORROW	EMB.
48+00	F.E.	Lt.	0	8	7
48+00	F.E.	Rt.	1	5	5
53+00	S.R.	Rt.	Incl. in Balance		
53+00	S.R.	Lt.	"	"	"
71+10	F.E.	Lt.	4	1	4
71+30	F.E.	Rt.	2	3	4
92+80	F.E.	Rt.	9	0	7
92+80	F.E.	Lt.	1	3	3
105+85	S.R.	Lt.	Incl. in Balance		
106+08	S.R.	Rt.	"	"	
168+07	F.E.	Rt.	1	4	4
168+12	F.E.	Lt.	4	1	4
		Totals	22	25	38

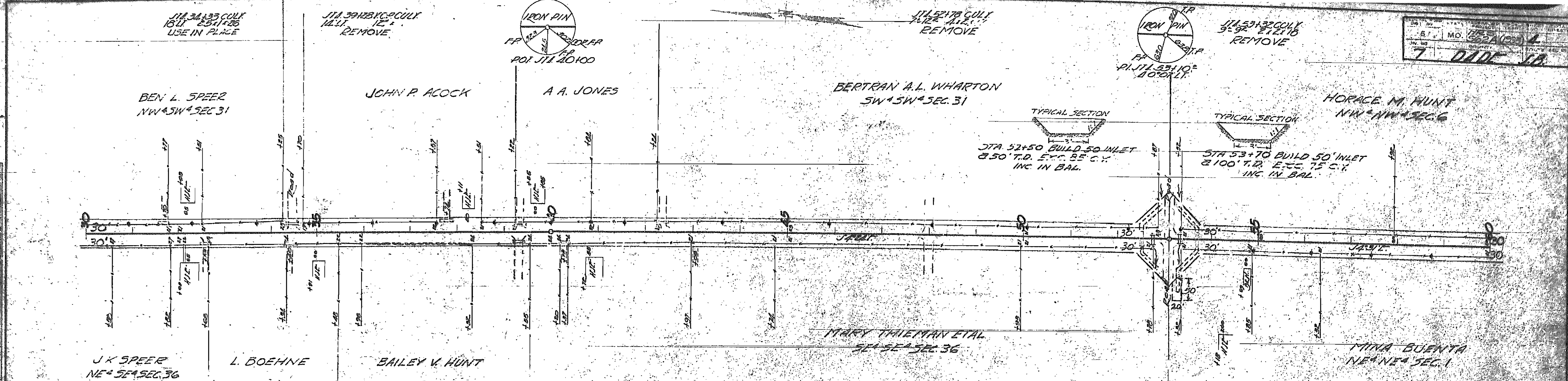
SUMMARY

ITEM No.	DESCRIPTION	UNIT	TOTAL UNITS	No. UNITS FED. AID ONLY
1-A	Clearing	Acre	4.5	
1-B	Grubbing	Acre	0.5	
1-C	Hedge Pulling	100 Ft.	42.50	
1-D	Cl. "A" Excavation	Cu. Yd.	3793	
1-I	Culvert Excavation	Cu. Yd.	384	
1-L	Cl. "A" Borrow Excavation	Cu. Yd.	1020	
1-M	Overhaul	Sta. Yd.	3	
1-N	Machine Grading	Station	144.61	
16-B	Cl. "B" Concrete Masonry	Cu. Yd.	79.15	
18	15" C.M.P. Culverts	Lin. Ft.	200	
18	18" C.M.P. Culverts	Lin. Ft.	180	
18	24" C.M.P. Culverts	Lin. Ft.	228	
18	30" C.M.P. Culverts	Lin. Ft.	36	
19-A	Reinf. For Conc. Structures	Pound	8860	
	CONTINGENT ITEMS			
	Cl. "C" Excavation	Cu. Yd.	215	

Prepared By J. H. Olin Date Sept. 30, 1935 Checked in Div. Office By Date 193 Checked in Central Office By Date 193



LOCKWOOD, MO.
NW¼ NW¼ SEC. 31 T31N-R27W
SW¼ NW¼ SEC. 31
NE¼ NE¼ SEC. 36 T31N-R28W
SE¼ NE¼ SEC. 36
STA 0+00
BEGIN PROJECT NRS-562 A (1935)
STA 1+14 LT. REMOVE 6' OF 3' SIDE WALK. EXC. 1 C.Y. INC. IN BAL. TO BE PAID FOR AS CL. A EXCAV.
STA. 14+85 ± CONC. BAND STAND TO BE LEFT IN PLACE
P.I. STA 14+94± 40°28'RT.
P.O.T. STA 27+00
USE IN PLACE
REMOVE
W. H. DAVIS
TYPICAL SECTION
STA. 29+50 BUILD 100' T.D. EXC. 8 C.Y. INC. IN BAL.
F. F. & S. R. APPROACHES
DRAINAGE STRUCTURES
STATION
STAND
SIZE
SKEW
LENGTH
REMARKS
29+50
NO WORK UNDER PROJ. NRS-562A (1935) (Removal of walk at station 1+14 and such work as may be required to prepare the street for surfacing to be done by the Division Maintenance Forces)
VILLAGE SECTION ON LEFT
VILLAGE SECTION ON RIGHT
VILLAGE SECTION
24' MIN.
6' MIN.
Finished Roadway to be crowned as indicated
TYPICAL SECTION
24' MIN.
2' MIN.
Finished Roadway to be crowned as indicated.
0.00%
1100
1090
1080
1070
0 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 20 1 2 3 4 5 6 7 8 9 30
PLATE 1 - PLAN - PROFILE



F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
[illegible]	[illegible]	20'				FE	[illegible]	[illegible]		Bal.
[illegible]	[illegible]	20'					[illegible]	[illegible]		"
[illegible]	[illegible]	[illegible]					[illegible]	[illegible]		"
[illegible]	[illegible]	APPROACH					[illegible]	[illegible]		"

DRAINAGE STRUCTURES

STATION	STAND	SIZE	SKEW	LENGTH	DRAINAGE AREA	CULV. EXCAV.	REMARKS
39+28							Removal - Lt.
52+78						6	Removal
53+32							Removal
53+70	C243	3x2'		27'	24 L.R.	[illegible]	9' Hwls.

F. E. & S. R. APPROACHES

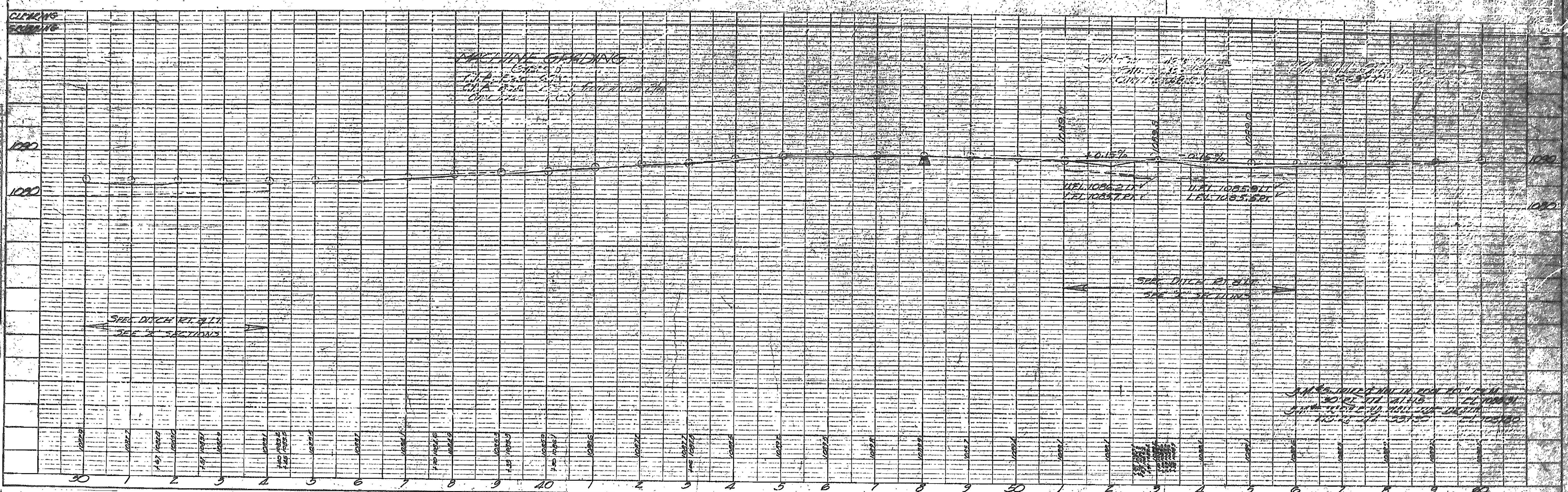
STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
[illegible]	[illegible]			20'		FE	[illegible]	[illegible]	[illegible]	Bal.
[illegible]	[illegible]		20'			FE	[illegible]	[illegible]	[illegible]	"
[illegible]	[illegible]		20'			FE	[illegible]	[illegible]	[illegible]	"
[illegible]	[illegible]	S.R. APPROACH					[illegible]	[illegible]		"
[illegible]	[illegible]		20'				[illegible]	[illegible]		"
[illegible]	[illegible]		20'			FE	[illegible]	[illegible]		"
[illegible]	[illegible]	20'					[illegible]	[illegible]		"

STD. PIPE CULVERTS

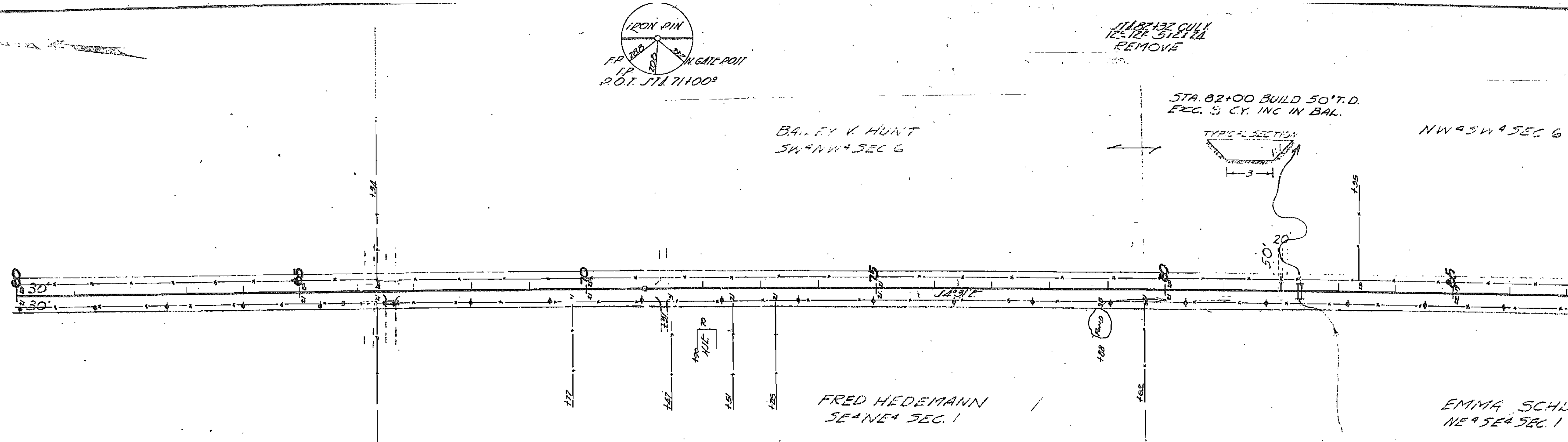
STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
52+50		36'			14 L.R.	[illegible]	

HEDGE PULLING

STATION	STATION	SIDE	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]



6	MO.	HRS 562A(1935)	5	
7	DADE	J.B.		



HEDGE PULLING

Station	Station	Side	100 Ft.
57+50		Rt.	.75

F. E. & S. R. APPROACHES

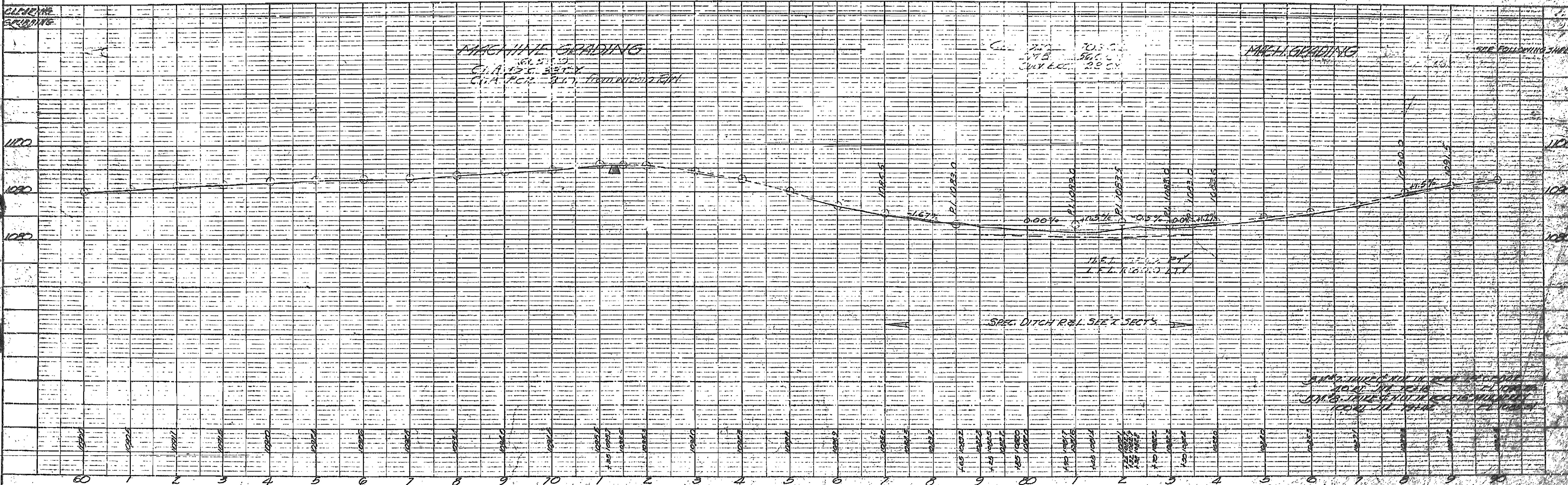
STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
[illegible]	R&L	[illegible]					11	[illegible]		Bal
61+50	R&L	40'					8	[illegible]	[illegible]	"
[illegible]+31	R&L	[illegible]					14	[illegible]		"
[illegible]	[illegible]	20'					[illegible]	6		"

STD. PIPE CULVERTS

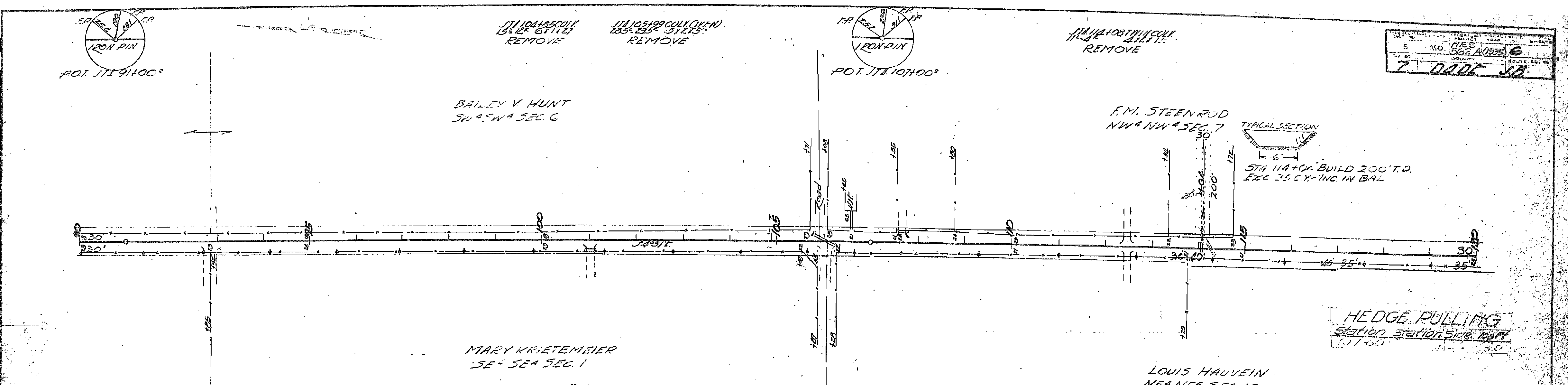
STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
NONE							

DRAINAGE STRUCTURES

STATION	STAND.	SIZE	SKEW	LENGTH	DRAINAGE AREA		REMARKS
82+00	C-243	3x2'		26'	24 I.R.	[illegible]	9" H.W.s
82+32						[illegible]	Removal



5	MO.	RS-562-A(1935)	6
7	DADE		S.R.

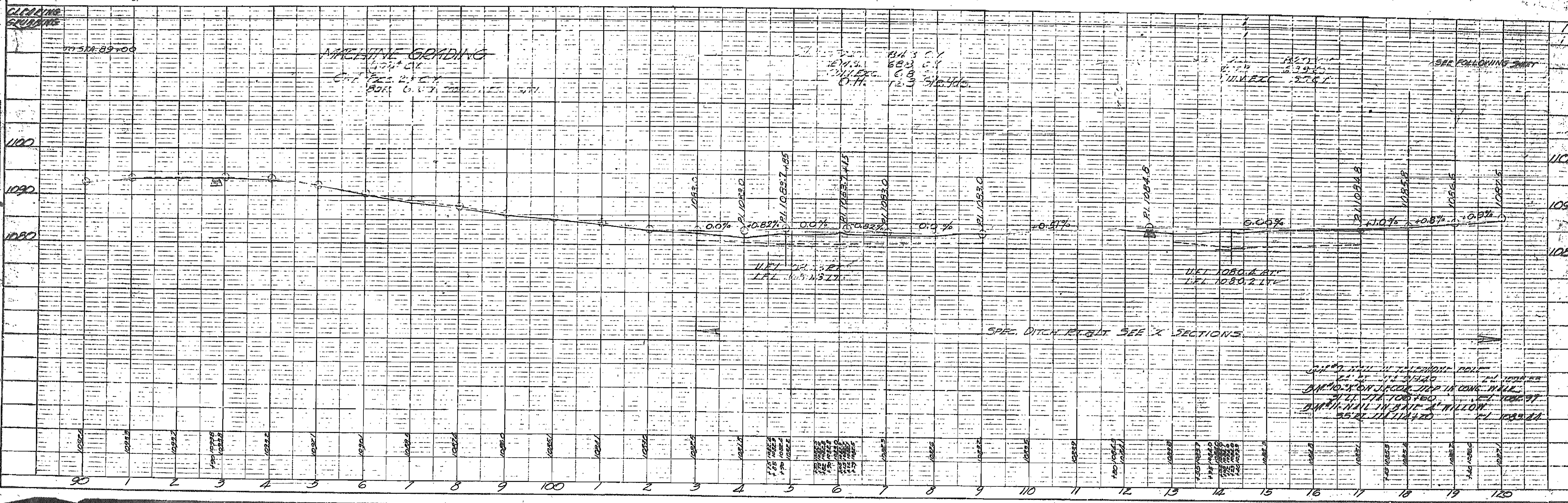


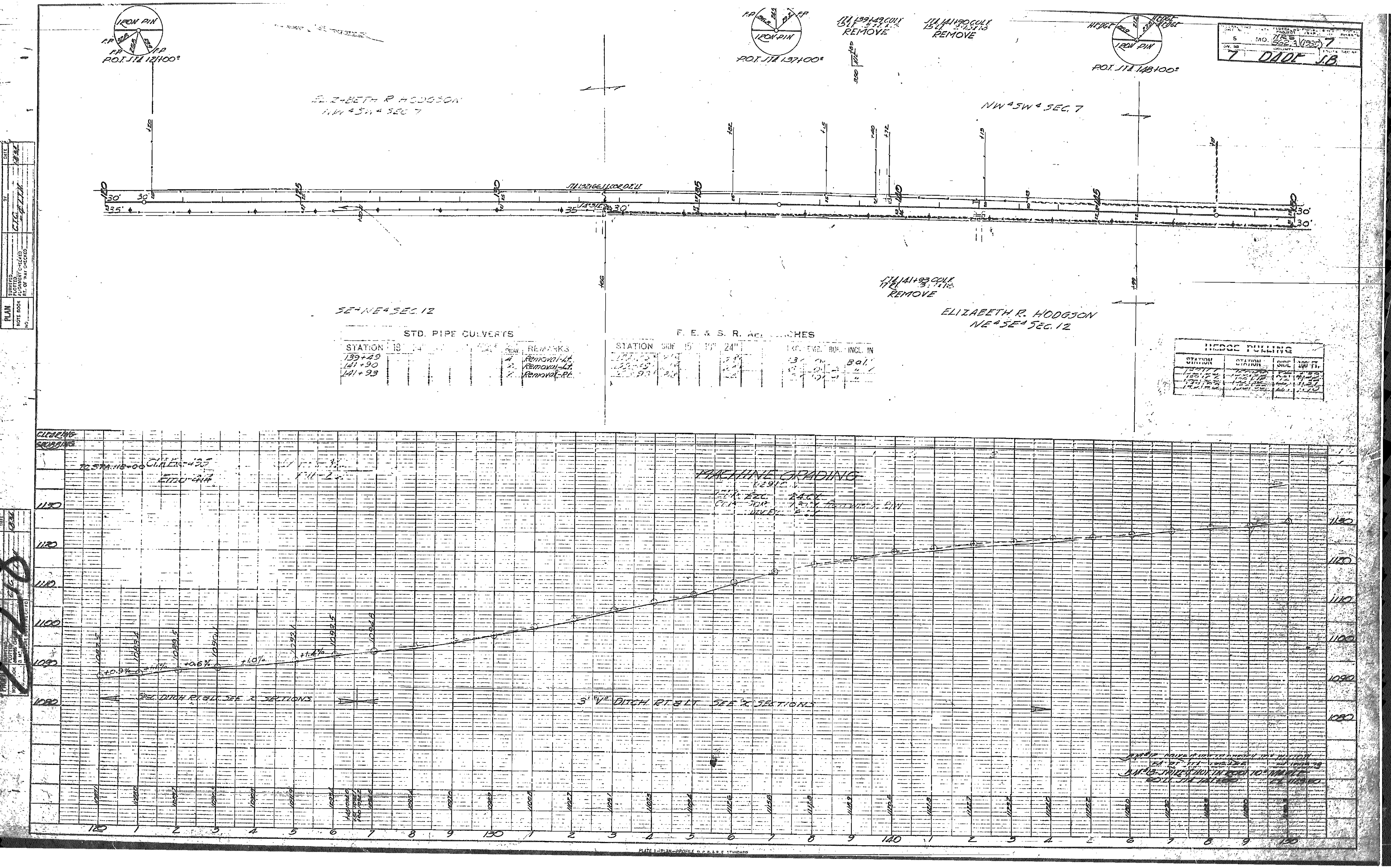
F. L. & S. R. APPROACHES

STATION	S'DL	15"	18"	24"		EXC.	EMB.	BOR.	INCL. IN
[illegible]	[illegible]	[illegible] CROWN				6	70	[illegible]	Bal.
[illegible]	[illegible]	[illegible]				3	[illegible]		"
[illegible]	[illegible]					10	[illegible]		"
[illegible]	[illegible]	[illegible]					20		"
		[illegible]					35		"
[illegible]		20'				4	[illegible]		"
117+50	[illegible]	[illegible] CONN. [illegible] PIPE				3	20		"

DRAINAGE STRUCTURES

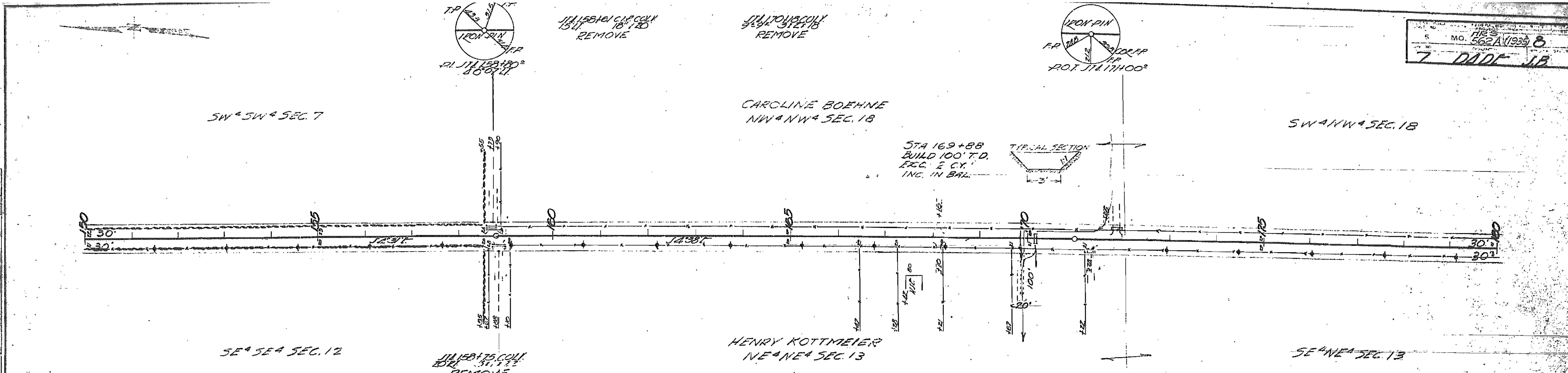
STATION	STAND	SIZE	SKEW	LENGTH	DRAINAGE AREA	[illegible]	REMARKS
104+85	C424	6x2		26'	92 L.R.	2.7	9" Hwls 9" Fill
105+99						.9	Removal
106+08	C243	3x2		24'	40 L.R.	[illegible]	9" Hwls 9" Fill S.R. Rt.
114+08						[illegible]	Removal
114+21	C424	6x3	30° Rt.	31'	158 L.R.	[illegible]	9" Hdwls 1' Fill





STD. PIPE CULVERTS

STATION	18"	24"						REMARKS
139+49							4	Removal-Lt.
141+90							2	Removal-Lt.
141+93							2	Removal-Rt.



F. E. & S. R. APPROACHES

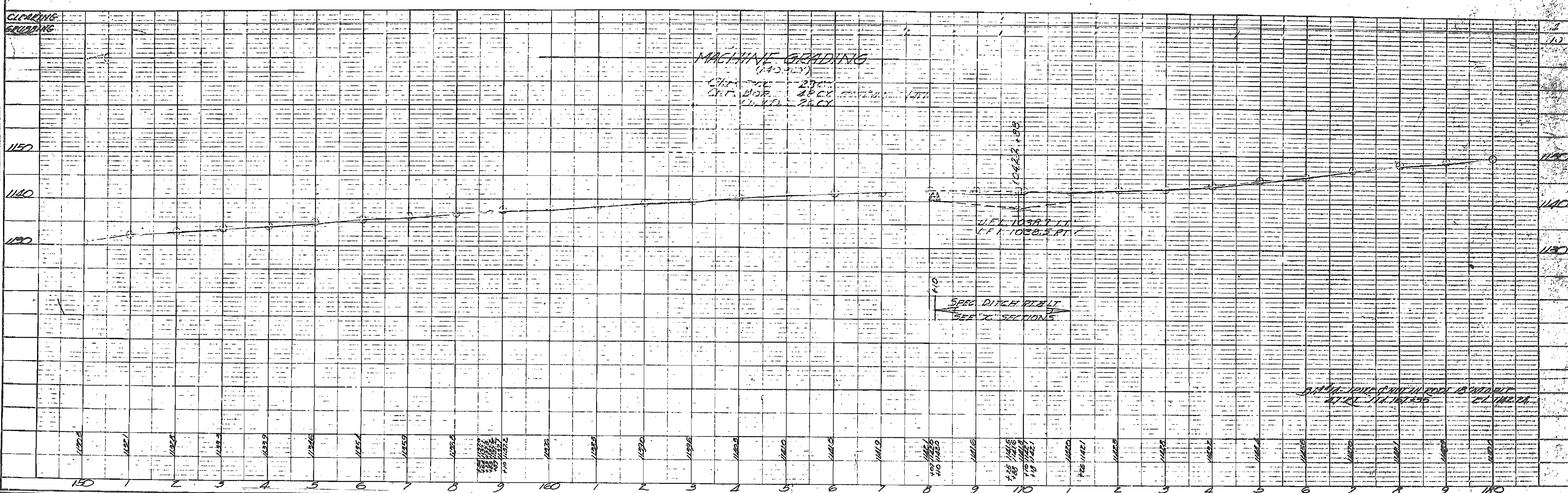
STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
[illegible]	[illegible]		[illegible]					12	4	Bal.
[illegible]	[illegible]		[illegible]					1	18	"
[illegible]	F.E.	F.E.	[illegible]	1-NO P.E.			11	12	3	"
171+23	R.		[illegible]					4	5	"
[illegible]	[illegible]							6	5	"

STD. PIPE CULVERTS

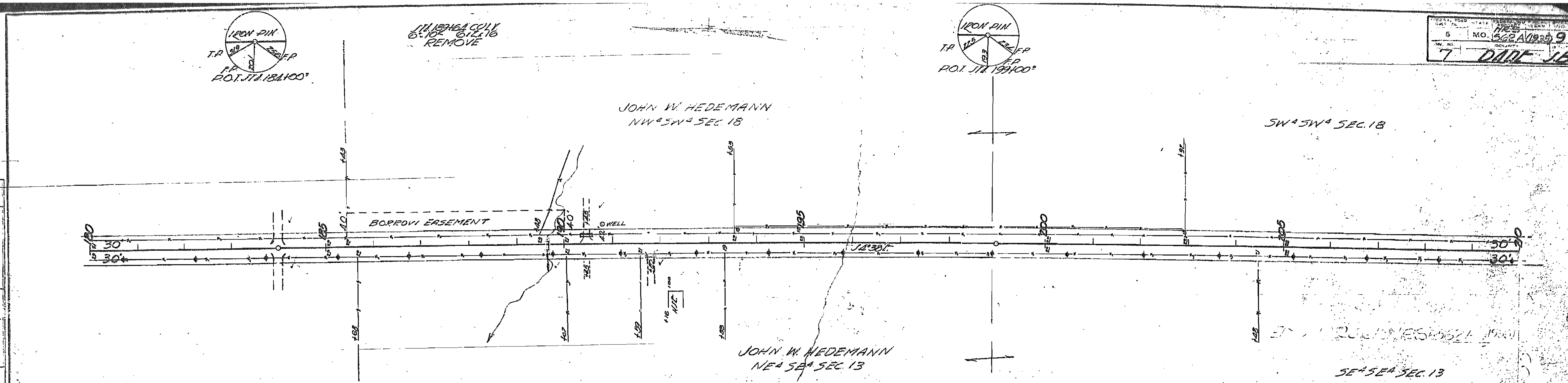
STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
158+61						2	Removal-Lt
158+75						3	Removal-Rt
169+88			36'		32 L.R.	-	
170+18						4	Removal

HEDGE PULLING

STATION	STATION	SIDE	100 FT.
[illegible]	158+55	Lt.	[illegible]
170+[illegible]		Rt.	[illegible]

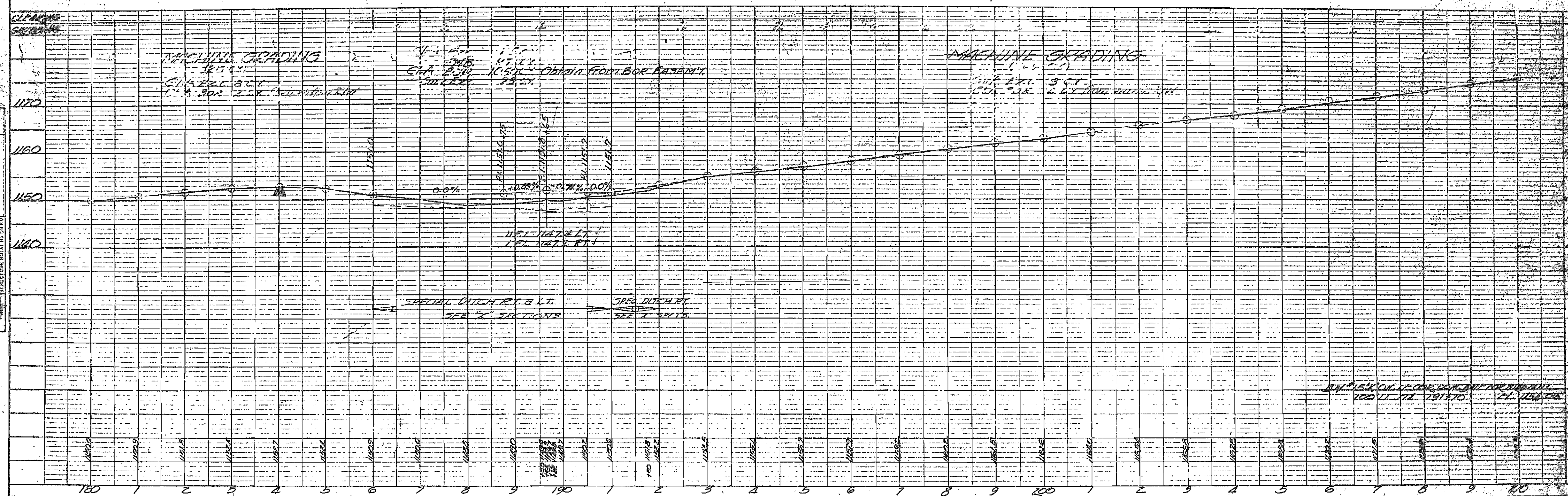


5 MO. 562 A(1936) 9
7 DADE J.B.



F. E. & S. R. APPROACHES										
STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
[illegible]	Rt.& Lt.	F.E. CROWN		40 PIPE			8	3	2	Bal.
190+25	[illegible]			2				0		"
191+80	Rt.			24			6	10	[illegible]	"

DRAINAGE STRUCTURES							
STATION	STAND	SIZE	SKEW	LENGTH	DRAINAGE AREA	CULV. EXCAV.	REMARKS
189+64	C-424	6x3	—	26'	158 L.R.	26	19" Hwls. 1' Fill



Lockwood Sidewalk Project

Section 36, Township 31N, Range 28W

TAP-9900 (739)

INDEX OF SHEETS

LENGTH OF PROJECT

SIDEWALK - HWY 97/MAIN ST

Beginning of Project:	Sta 10+00.00
End of Project:	Sta 17+20.96

SIDEWALK - 12TH ST

Beginning of Project:	Sta 10+00.00
End of Project:	Sta 14+86.18

UTILITIES

City of Lockwood	417-232-4221
Dade County	417-637-6076
Lockwood Water Department	417-232-4221
Missouri Gas & Energy	314-341-0973
Lockwood Electric	417-232-4221
Mediacom	855-633-4226
Missouri One Call	800-344-7483

Site Map

PROJECT AREA

PREPARED BY:

JUSTIN W. LIKES, P.E. DATE
PROJECT ENGINEER

APPROVED

CITY SEAL

BARB ROUTLEDGE DATE
CITY CLERK

APPROVED FOR ONE YEAR FROM THIS DATE

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
001_TL-01_063.dgn

SHEET TITLE:
TITLE SHEET

SHEET NO.
SHEET 1 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

BID DOCUMENTS

ebaker 8/2/2017 3:42:57 PM G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\001_TL-01_063.dgn

GENERAL NOTES:

1. EXISTING UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION WORK. ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, FENCES, AND/OR INCIDENTALS NOT DESIGNATED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2. THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT, OR RELOCATION OF UTILITIES OR STRUCTURES (UNDERGROUND, SURFACE, OR OVERHEAD) REQUIRED FOR THE PROJECT SHALL BE COORDINATED, BY THE CONTRACTOR, WITH EACH UTILITY OWNER BEFORE COMMENCING CONSTRUCTION.

3. ALL NECESSARY POWER POLE RELOCATIONS, WATER METER RELOCATIONS, AND WATER VALVE ADJUSTMENTS PER THE PLANS SHALL BE COMPLETED BY LOCKWOOD AT THE CITY'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION AND SEQUENCING OF WORK. ALL COORDINATION SHALL BE INCIDENTAL TO THE PROJECT.

4. CONTRACTOR'S STAGING, PARKING, AND MATERIAL STORAGE AREAS SHALL BE LIMITED TO THE SPACE(S) INDICATED BY OWNER. PROVIDING ADDITIONAL STORAGE OR PARKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. BEFORE COMMENCING DEMOLITION CONSTRUCTION OR EXCAVATION, CONTRACTOR SHALL CALL MISSOURI ONE-CALL SYSTEM, INC. AT 1-800-344-7483.

6. ALL WORK SHALL CONFORM TO THE LATEST REVISION OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (MoDOT) UNLESS OTHERWISE NOTED.

7. ALL EXISTING SURVEY BENCHMARKS, MONUMENTS, PROPERTY PINS, & RIGHT-OF-WAY MARKERS ARE TO BE PRESERVED; OR IF DISTURBED OR REQUIRED TO BE REMOVED DURING CONSTRUCTION, ARE TO BE RESTORED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PROPERTY CORNER MARKERS. PROPERTY CORNER MARKERS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REESTABLISHED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF MISSOURI.

8. ANY EXISTING YARD FEATURE OR OTHER ITEM DAMAGED BY THE CONTRACTOR SHALL BE REPLACED OR REPAIRED TO THE PRE-EXISTING OR BETTER CONDITION. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK.

9. THE CONTRACTOR MUST PROVIDE TEMPORARY ACCESS FOR PROPERTY OWNERS WHILE CROSSING ROADWAYS AND DRIVEWAYS.

10.THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS 48 HOURS NOTICE PRIOR TO PERFORMING WORK ON THEIR PROPERTY.

11.THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE PAY AND NON-PAY ITEMS AS DESCRIBED IN THE PROJECT MANUAL.

12. PAYMENT WILL BE MADE FOR ONLY THOSE ITEMS LISTED IN THE PROPOSAL. EXAMPLES OF ITEMS THAT ARE INCIDENTAL TO THOSE LISTED IN THE PROPOSAL INCLUDE THE FOLLOWING:
   A) REPAIRING DAMAGED UTILITY LINES, IF ANY
   B) MAILBOX ADJUSTMENTS
   C) REMOVING ANY SHRUBS AND SMALL TREES WITHIN THE GRADING LIMITS
   D) TEMPORARY CONSTRUCTION FENCING
   E) BYPASS PUMPING
   F) EXISTING PAVEMENT DAMAGE/RESTORATION
   G) DEWATERING

13. PROTECTION OR REMOVAL OF TREES & PLANTS IS TO BE AS INDICATED ON THE CONTRACT DRAWINGS & AS SPECIFIED, INCLUDING COMPLYING WITH ANY CONDITIONS FOR EASEMENTS BETWEEN THE CONTRACTOR & THE PROPERTY OWNER(S).

14. SAFETY: SAFETY ON THE JOB IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO REPLACE AND MAINTAIN PROPER BARRICADES AND/OR FENCES TO PREVENT INJURY TO HIS/HER AND OTHER PERSONNEL AND THE PUBLIC. THE CONTRACTOR SHALL LEAVE SUCH BARRICADES AND/OR FENCES IN PLACE AT ANY TIME HE/SHE IS ABSENT FROM THE JOB SITE.

15. ALL PAVEMENTS, SIDEWALKS, ABANDONED SEWERS, PIPELINES, EXCESS EARTHWORK, AND/OR OTHER OBSTRUCTIONS TO CONSTRUCTION THAT ARE REMOVED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFICALLY NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAUL-OFF AND DISPOSAL IN ACCORDANCE WITH STATE REGULATIONS AND MISSOURI DEPARTMENT OF NATURAL RESOURCES AND SHALL NOT RECEIVE SEPARATE PAYMENT FROM THE OWNER. THIS WORK SHALL BE CONSIDERED INCIDENTAL.

16. REMOVALS OF PORTIONS OF PAVEMENT, CURB GUTTERS, SIDEWALK, AND OTHER SIMILAR IMPROVEMENTS SHALL BE REMOVED TO AN EXISTING JOINT IF ONE IS WITHIN 5'. IF THERE IS NO EXISTING JOINT, A JOINT WILL BE SAWED TO A MINIMUM DEPTH OF 2" WITH TRUE LINE AND VERTICAL FACE PRIOR TO REMOVAL.

17. WORK IN THE RIGHT-OF-WAY SHALL HAVE ADEQUATE TRAFFIC CONTROL TO PROVIDE A SAFE WORK AREA IN ACCORDANCE WITH PART 6 OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) OF THE US DEPARTMENT OF TRANSPORTATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC WAYS AND DETOUR CONTROL (SIGNS AND DEVICES) DURING THE CONSTRUCTION WORK AND AT ALL TIMES UNDER THIS CONTRACT.

18. THE CONTRACTOR SHALL CONTROL EROSION AND SILTATION DURING CONSTRUCTION AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS. THE CONTRACTOR'S EROSION CONTROL MEASURES SHALL CONFORM TO THE MoDOT EROSION AND SEDIMENT CONTROL SPECIFICATIONS AND THE PROJECT SWPPP. A COPY SHALL BE OBTAINED AND KEPT ON SITE AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION AND PREVENT POLLUTION FOR ALL WORK WHICH THEY ARE DIRECTLY INVOLVED.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING ALL DISTURBED AREAS BY CONSTRUCTION THAT ARE NOT PAVED.

HORIZONTAL AND VERTICAL CONTROL

PROJECT COORDINATES SHOWN HEREON BASED ON MISSOURI STATE PLANE, WEST ZONE, NAD 83, NAVD 88 IN "GROUND" U.S. SURVEY FEET AND ARE TIED TO NGS STATION "LOCK"
GRID FACTOR=0.99991988
1 METER=3.28083333 U.S. SURVEY FEET.
"LOCK" GRID COORDINATES: N 135938.704 (M) / E 895593.702 (M)
"LOCK" PROJECT COORDINATES: N 446027.9671 (US SURVEY FEET) / E 2938529.1055 (US SURVEY FEET) / ELEV = 1079.00 (HELD)

HORIZONTAL CONTROL POINTS:

CONTROL POINT #3
SET ½" IRON BAR WEST OF THE EAST ENTRANCE TO PARKING LOT ON THE SOUTH SIDE OF GOOD SHEPHERD NURSING HOME.

RM 1: WEST, 2.71' TO EAST FACE OF LIGHT POLE.
RM 2: NORTHWEST, 10.76' TO SOUTHEAST CORNER OF GOOD SHEPHERD NURSING HOME SIGN.
RM 3: SOUTH, 8.04' TO NORTH EDGE OF PAVEMENT ON 12TH STREET.

N 443527.3410 / E 2947250.7781 / ELEV=1082.13

CONTROL POINT #4
SET ½" IRON BAR IN GRASS AT THE SOUTHWEST CORNER OF W. 12TH AND MAIN.

RM 1: SOUTH, 16.70' TO CENTER OF MANHOLE LID.
RM 2: NORTH, 4.74' TO BACK OF CURB.
RM 3: EAST, 22.53' TO CENTERLINE OF MAIN STREET.

N 443477.6709 / E 2947757.0403 / ELEV=1083.93

CONTROL POINT #151
FOUND MAG NAIL IN NORTH SIDE OF SOUTH ASPHALT DRIVE IN FRONT OF BLD. #1307

RM 1: NORTH, 2.37' TO BACK OF CURB.
RM 2: EAST, 16.93' TO EAST EDGE OF PAVEMENT.
RM 3: NORTHEAST, 18.34' TO MAG NAIL IN EAST FACE OF POWER POLE.

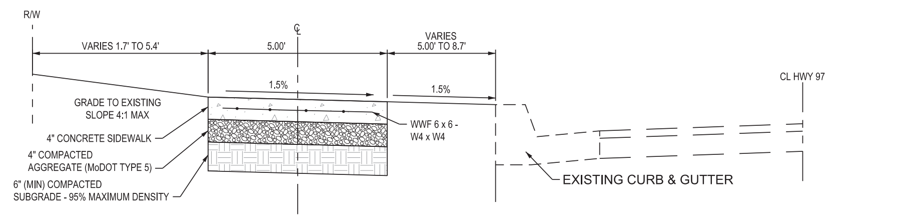
N 442978.9055 / E 2947740.0199 / ELEV=1080.15

CONTROL POINT #152
FOUND MAG NAIL IN EAST SHOULDER OF MAIN STREET AT THE SOUTHEAST CORNER OF E. 11TH AND MAIN.

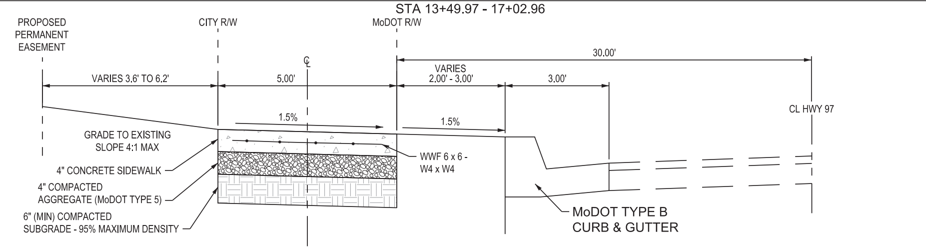
RM 1: EAST, 8.89 TO TOP OPERATING NUT OF FIRE HYDRANT.
RM 2: WEST, 17.50' TO CENTERLINE OF MAIN STREET.
RM 3: NORTHEAST, 12.45' TO SOUTH FACE OF E. 11TH AND MAIN STREET SIGN.

N 443737.0631 / E 2947803.3661 / ELEV=1086.63

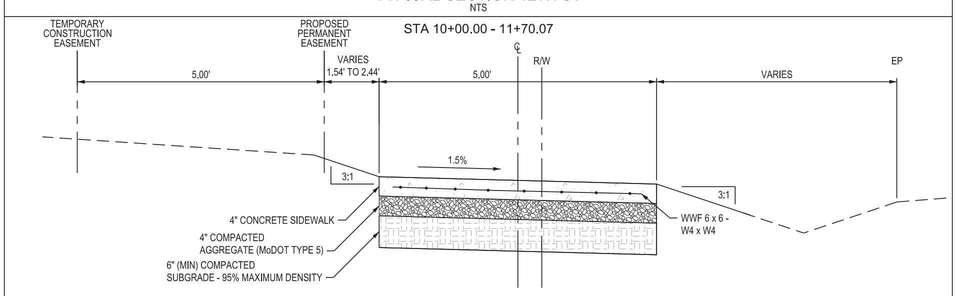
TYPICAL SECTION HWY 97
NTS
STA 10+00.00 - 13+07.51



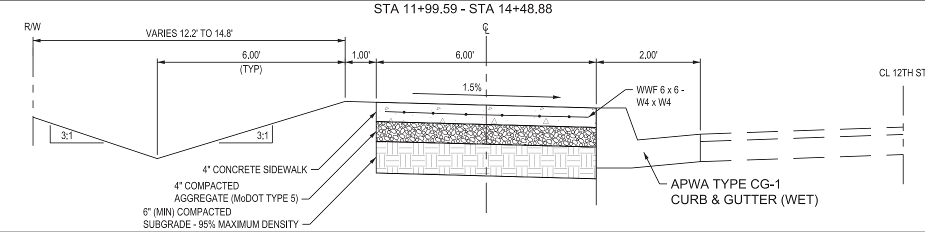
TYPICAL SECTION HWY 97
NTS
STA 13+49.97 - 17+02.96



TYPICAL SECTION 12TH ST
NTS
STA 10+00.00 - 11+70.07



TYPICAL SECTION 12TH ST
NTS
STA 11+99.59 - STA 14+48.88



TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER
JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
002_GN-01_063.dgn

SHEET TITLE:
GENERAL NOTES SHEET

SHEET NO.
SHEET 2 OF 27

BID DOCUMENTS

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

ebaker
8/2/2017 • 3:43:00 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\002_GN-01_063.dgn

GENERAL ADA NOTES:

1. ALL AREAS OF THE PEDESTRIAN ACCESS ROUTE MUST BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADA). EXCEPTIONS MUST BE APPROVED BY THE ENGINEER. ALL OTHER AREAS OF NON -COMPLIANCE SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE.
2. FINISHED SIDEWALK SHALL BE STABLE, SLIP RESISTANT AND ENSURE SURFACE DOES NOT POND WATER.
3. SIDEWALK AND RAMP CROSS SLOPES SHALL BE A MINIMUM OF 1.0% TO FACILITATE DRAINAGE AND A MAXIMUM OF 2.0% TO BE USABLE BY DISABLED INDIVIDUALS.
4. STORM WATER INLETS, SIGNS, POSTS, MANHOLE COVERS, PULL BOXES AND OTHER ACCESS LIDS SHOULD BE AVOIDED WITHIN THE SIDEWALK. IF SUCH A LOCATION IS NECESSARY, THE FEATURE MUST MEET ADA STANDARDS.
5. THE RUNNING GRADE OF A SIDEWALK SHALL NOT EXCEED 5.0% UNLESS IT IS MATCHING THE GRADE OF THE ADJACENT ROADWAY OR A SIDEWALK RAMP.
6. PEDESTRIAN ACCESS ROUTE SHALL CONTINUE ACROSS DRIVEWAYS.
7. LANDINGS SHALL BE CONSTRUCTED AT THE TOP AND/OR BOTTOM OF A CURB RAMP WHEREVER A TURNING MOVEMENT OR ACCESS TO PEDESTRIAN PUSH BUTTON IS REQUIRED. LANDINGS LOCATED IN THE ROADWAY MUST BE COMPLETELY CONTAINED WITHIN THE CROSSWALK.
8. SIDE FLARES OF CURB RAMPS, IN THE PATH OF PEDESTRIAN TRAVEL (TRAVERSABLE), SHALL NOT EXCEED A SLOPE OF 1V:10H. SIDE FLARES OUTSIDE THE PEDESTRIAN PATH (NON TRAVERSABLE) MAY BE 1V:2H OR VERTICAL.
9. TRANSITION FROM SIDEWALK TO GUTTER TO ROADWAY MUST BE FLUSH.
10. DETECTABLE WARNINGS (TRUNCATED DOMES) SHALL BE PREFORMED AND INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. STAMPED CONCRETE WILL NOT BE ACCEPTED.
11. THE DETECTABLE WARNING SURFACE SHALL BE BRICK RED. TRUNCATED DOMES SHALL SPAN THE FULL WIDTH (WITHIN 2") OF THE RAMP OR LANDING. DETECTABLE WARNING DOMES SHALL BE ALIGNED PARALLEL TO THE SLOPE WHEN INSTALLED ON A RAMP. WHEN INSTALLED ON A LANDING OR BLENDED TRANSITION, THEY SHALL BE ALIGNED PERPENDICULAR OR RADIAL TO THE BREAK BETWEEN THE RAMP, LANDING OR BLENDED TRANSITION AND THE STREET.
12. IF CONSTRUCTION OF 5' X 5' LANDING IS NOT FEASIBLE, A 5' X 4' LANDING MAY BE USED.
13. ALL SIDEWALKS AND CURB RAMPS WITHIN THE CITY'S RIGHT-OF-WAY OR EASEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH MoDOT STANDARD SPECIFICATIONS AND THE CURRENT APPROVED AMERICAN WITH DISABILITIES ACT (ADA). THE MODOT ADA POST CONSTRUCTION CHECKLIST SHALL BE UTILIZED BY THE CONTRACTOR FOR VERIFYING COMPLIANCE WITH THE ADA LAW.
14. CURB RAMP REQUIREMENTS ARE SHOWN ON MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION DRAWINGS. CURB RAMPS WITH DETECTABLE WARNING SURFACES (TRUNCATED DOMES) ACROSS THE FULL WIDTH OF THE RAMP SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A STREET.
15. THE CONTRACTOR CAN LOCATE THE ADA POST CONSTRUCTION CHECKLIST FORM ON THE MISSOURI DEPARTMENT OF TRANSPORTATION WEBSITE: HTTP://WWW.MODOT.MO.GOV/BUSINESS/CONTRACTOR_RESOURCES/FORMS.HTM. THE CHECKLIST IS INTENDED TO BE A HELPFUL TOOL FOR THE CONTRACTOR TO USE DURING THE CONSTRUCTION OF THE PEDESTRIAN FACILITIES AND A BASIS FOR THE CITY'S ACCEPTANCE OF WORK. PRIOR TO WORK BEING PERFORMED, THE CONTRACTOR SHALL BRING TO THE CITY'S ATTENTION ANY PLANNED WORK THAT IS IN CONFLICT WITH THE REQUIREMENT SHOWN IN THE CHECKLIST. SITUATIONS MAY ARISE WHERE THE CHECKLIST MAY NOT FULLY ADDRESS ALL REQUIREMENTS NEEDED TO CONSTRUCT A FACILITY TO THE FULL REQUIREMENTS OF CURRENT ADA LAW. IN THOSE SITUATIONS, THE CONTRACTOR SHALL PROPOSE A SOLUTION TO THE CITY THAT IS COMPLIANT WITH CURRENT ADA LAW USING THE FOLLOWING HIERARCHY OF RESOURCES: AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), DRAFT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG), MODOT'S ENGINEERING POLICY GUIDELINES (EPG), OR A SOLUTION APPROVED BY THE ACCESS BOARD.
16. THE CONTRACTOR SHALL PROVIDE THE COMPLETED ADA POST CONSTRUCTION CHECKLIST TO THE CITY AT THE FINAL INSPECTION FOR PROJECT ACCEPTANCE. ADA IMPROVEMENTS REQUIRE FINAL INSPECTION AND COMPLIANCE WITH THE ADA POST CONSTRUCTION CHECKLIST. EACH ITEM LISTED IN THE CHECKLIST MUST RECEIVE EITHER A "YES" OR AN "N/A" SCORE. ANY ITEM RECEIVING A "NO" WILL BE DEEMED NON -COMPLIANT AND SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE UNLESS DEEMED OTHERWISE BY THE CITY.
17. ALL LANDING AREAS SHALL BE CONSTRUCTED WITH A MAXIMUM SLOPE OF 2.0% IN ANY DIRECTION, UNLESS THE SIDEWALK IS A TRANSITION AREA ADJACENT TO AN EXISTING SIDEWALK.
18. THE BID ITEM FOR CURB RAMPS SHALL INCLUDE DETECTABLE WARNING PANELS, LANDING AND RAMP. ANY ADDITIONAL SIDEWALK WILL BE PAID FOR UNDER SIDEWALK BID ITEM.

SIGNING & STRIPING NOTES:

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL SIGNING ITEMS IN ACCORDANCE WITH THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) THROUGHOUT THE DURATION OF THE PROJECT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL, RELOCATION AND REUSE OF ALL SIGNAGE, POSTS AND ASSEMBLIES. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPLACEMENT OF SIGNAGE, POSTS AND ASSEMBLIES IF DAMAGED DURING REMOVAL.
3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LATEST VERSION OF THE MUTCD.
4. CROSSWALK MARKINGS SHALL BE TYPE 2 PREFORMED MARKING TAPE IN ACCORDANCE WITH MoDOT SECTION 620.

SIDEWALK & DRIVEWAY NOTES:

1. ALL EXISTING SIDEWALKS OR SIDEWALK RAMPS WITHIN PROJECT LIMITS SHALL BE TOTALLY REMOVED TO THE NEAREST CONTRACTION OR ISOLATION JOINT UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. THE SECTION SHALL BE SAWED FULL DEPTH. DRIVEWAY APPROACHES SHALL BE REMOVED TO WITHIN 2' OF RIGHT-OF-WAY.
2. ALL EXCAVATION OR EMBANKMENT REQUIRED SHALL BE AS DEFINED IN DIVISION 200 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE TOP 6 INCHES OF THE FINISHED SUBGRADE SHALL BE COMPACTED TO OBTAIN A DENSITY OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 FOR COHESIVE SOILS OR TO 70% RELATIVE DENSITY AS DETERMINED BY ASTM D2049 FOR NON-COHESIVE SOILS.
3. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH MoDOT TYPE B MIX.
4. CONTRACTOR'S CONSTRUCTION LIMITS SHALL BE WITHIN EXISTING RIGHT-OF-WAY UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL REPLACE SIDEWALKS TO THE NEAREST JOINT, EXISTING JOINT SHALL BE SAW CUT. EXISTING CURBS AND CURB & GUTTER TO BE REMOVED SHALL BE SAW CUT.
6. CONTRACTORS WILL MINIMIZE ANY EQUIPMENT PARKING ON TURF AREAS. IN THE EVENT THIS IS UNAVOIDABLE AND RESULTS IN RUTTING OF THE TURF AND SOIL, RESTORATION WILL NOT BE CONSIDERED COMPLETE UNTIL ANY RUTS HAVE BEEN LEVELED OUT AND GRASS SEED IS ADEQUATELY ESTABLISHED. CONTRACTORS WILL PLANT GRASS SEED TO MATCH THAT EXISTING AT THE SITE; FESCUE WITH FESCUE, BERMUDA WITH BERMUDA, ETC., (NO MORE THAN 10% ANNUAL RYE ALLOWED IN ANY CASE).

EROSION CONTROL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST REVISION OF DIVISION 800 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND AS NOTED IN THE PROJECT DRAWINGS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
3. THE CONTRACTOR SHALL NOT REMOVE EROSION CONTROL UNTIL APPROVED BY THE CITY.
4. CONTRACTOR SHALL COMPLY WITH THE GOVERNING AGENCY CONSTRUCTION REQUIREMENTS AND NPDES REQUIREMENTS, AND SHALL PROVIDE APPROPRIATE MITIGATION MEASURES FOR PROTECTION AND RESTORATION AT ALL LOCATIONS AS REQUIRED BY THEIR OPERATIONS AND AS REQUIRED BY ENGINEER. SPECIAL CONSTRUCTION REQUIREMENTS, TEMPORARY PROTECTIVE FENCING OR BARRICADES, SHEETING, SHORING, EROSION PROTECTION AND SURFACE RESTORATION AT CERTAIN LOCATIONS ARE INDICATED ON THE DRAWINGS TO BRING CONTRACTOR'S ATTENTION TO SENSITIVE AREAS.
5. THE CONSTRUCTION STAGING AREA AND ANY STOCK PILES SHALL HAVE SILT FENCE AROUND THE PERIMETER.
6. THE LIMITS OF DISTURBANCE SHOWN ARE APPROXIMATE. THE CONTRACTOR SHOULD TAKE CARE TO MINIMIZE SOIL DISTURBANCE AS MUCH AS POSSIBLE.
7. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS AS CONSTRUCTION IS COMPLETED.

STORM SEWER NOTES:

1. HORIZONTAL STATIONING ALONG THE PIPELINE ALIGNMENT IS FOR LEVEL LINE MEASUREMENT. ACTUAL PIPE LENGTH IS TO BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED. THE ALIGNMENT HAS NOT BEEN SURVEYED & MARKED IN THE FIELD. THE STATIONING & COORDINATES SHOWN ARE CALCULATED FROM THE BASE LINE HORIZONTAL CONTROL POINTS & THE COORDINATE SYSTEM.
2. SHOP DRAWINGS FOR STORM SEWERS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO ORDERING MATERIALS.
3. ALL STORM SEWER PIPING SHALL BE HDPE, UNLESS NOTED OTHERWISE AND IN CONFORMANCE WITH DIVISION 600 & 700 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
4. LOCATION OF STRUCTURES SET AT CENTER OF THE FRONT INSIDE FACE OF THE CURB INLET, CENTER OF JUNCTION BOX AND CENTER OF MANHOLES UNLESS OTHERWISE NOTED.
5. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INLET THROAT AND CURB AND GUTTER UP TO THE CONCRETE INLET TOP.
6. INSTALLATION OF ALL STORM SEWER AND BACKFILL OF TRENCHES SHALL BE IN ACCORDANCE WITH DIVISION 700 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
7. CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS TO CONFIRM DEPTH & LOCATION PRIOR TO STORM CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ORDERING STORM BOXES.

GRADING NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION, HAUL OFF AND PROPER DISPOSAL OF EXCAVATED AND UNSUITABLE MATERIAL.
3. THE CONTRACTOR'S OPERATIONS SHALL CONFORM TO OSHA CONSTRUCTION STANDARDS 29 CFR PERTAINING TO EXCAVATION AND TRENCHING.
4. GRADING PLAN REFLECTS TOP OF GRADE ELEVATION UNLESS OTHERWISE NOTED.
5. ALL AREAS DISTURBED DURING THE PROGRESS OF THIS PROJECT SHALL BE GRADED AND OTHERWISE RESTORED TO A CONDITION PER THE SPECIFICATIONS.
6. CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
7. EXISTING UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL THE EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION WORK. ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, FENCES, AND/OR INCIDENTALS NOT DESIGNATED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. ALL PROPOSED SIDEWALKS & PATH SHALL HAVE A MINIMUM OF 1% CROSS SLOPE AND BE ADA COMPLIANT.
9. ALL FILL MATERIAL SHALL BE FREE OF ORGANIC MATTER AND DEBRIS, AND SHALL BE APPROVED BY THE CITY PRIOR TO PLACEMENT. FILL MATERIALS SHALL NOT BE FROZEN AND SHALL NOT BE PLACED ON FROZEN SUBGRADE. ON-SITE SOILS (EXCEPT TOPSOIL) ARE SUITABLE FOR USE AS ENGINEERED FILL. THE SOFTER SOILS DESCRIBED MAY REQUIRE DRYING TO MEET COMPACTION REQUIREMENTS. ANY SOILS PREPARATION INCLUDING BUT NOT LIMITED TO SOIL STABILIZATION AND/OR SOIL DRYING ARE THE RESPONSIBILITY OF THE CONTRACTOR FOR NO SEPARATE PAYMENT BY THE CITY. THE CONTRACTOR HAS THE OPTION TO IMPORT FILL MATERIAL THAT IS APPROVED BY THE CITY & MoDOT.
10. PRIOR TO REPLACEMENT OF FILL, EXISTING SLOPES STEEPER THAT 5:1 SHALL BE BENCHED TO REDUCE THE POTENTIAL FOR SLIPPAGE BETWEEN EXISTING SLOPES AND NEW FILLS. BENCHES SHOULD BE LEVEL AND WIDE ENOUGH TO ACCOMMODATE COMPACTION. BENCHES SHALL HAVE A MAXIMUM VERTICAL FACE OF 3 FEET AND FINAL EARTH SLOPES SHALL NOT BE STEEPER THAN 3:1, WHILE RIP RAP SLOPES SHALL NOT BE STEEPER THAN 2:1.

TRAFFIC CONTROL NOTES:

1. ALL SIGNS, BARRICADES, DRUMS, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ANY EXISTING SIGNS OR PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED DURING CONSTRUCTION OPERATIONS WITH APPROVAL FROM THE ENGINEER.
3. IF NECESSARY, THE CONTRACTOR MUST OBTAIN A STREET CLOSURE PERMIT AT LEAST 14 DAYS IN ADVANCE OF THE PROPOSED CLOSURE DATE IN ORDER TO ALLOW SUFFICIENT TIME FOR PUBLIC NOTIFICATIONS.
4. WHERE FLAGGERS ARE REQUIRED, ADVANCED SIGNING SHALL BE INSTALLED PER THE MUTCD. THE FLAGGER SHALL MEET THE REQUIREMENTS OF MUTCD WITH REGARD TO CHARACTER, ATTIRE, BEHAVIOR, AND MUST BE CERTIFIED AS A FLAGGER WITHIN A WORK AREA BY A NATIONALLY RECOGNIZED ORGANIZATION SUCH AS ATSSA OR IMSA OR AN APPROVED EQUAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING IN POSITION, CLEANING AND REPLACING, DAMAGED TRAFFIC CONTROL DEVICES, DETOURS, STREET LIGHTS, AND OTHER UTILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL TRAFFIC LANES CLEAR OF MUD AND DEBRIS.
7. ADEQUATE CLEARANCE AT INTERSECTIONS SHALL BE MAINTAINED TO PROVIDE PROPER SIGHT DISTANCE FOR THE SAFE OPERATION OF VEHICLES, INCLUDING TRACTOR TRAILER TRUCKS, AND PROVIDE SAFETY FOR PEDESTRIAN TRAFFIC.

UTILITY LEGEND

EXISTING FIBER	FO
EXISTING UNDERGROUND POWER LINES	E
EXISTING OVERHEAD UTILTIES	OHU
EXISTING UNDERGROUND TELEPHONE LINES	T
EXISTING WATER LINE	W
EXISTING SANITARY SEWER	S
EXISTING GAS LINE	G
EXISTING STORM SEWER	OR ST
EXISTING TREE LINE	
PROPOSED SANITARY SEWER	SS SS
PROPOSED STORM SEWER	
PROPOSED WATER LINE	W W
PROPOSED GAS LINE	NG NG

LEGEND

ENCASEMENT PIPE	
SIGN	
TYPE 3 BARRICADE	
POWER POLE	
LIGHT POLE	
ELECTRIC TRANSFORMER	
TELEPHONE POLE	
TELEPHONE PEDESTAL	
CABLE TV PEDESTAL	
FIRE HYDRANT (SURVEY)	
WATER METER (SURVEY)	W
WATER VALVE (SURVEY)	
GUY ANCHOR	
GAS METER	G
GAS VALVE	
MAIL BOX	M
SIGN (SURVEY)	
EXISTING TREE (DIA)	12"
EXISTING PINE TREE (DIA)	12"
EXISTING BUSH	3'

ABBREVIATIONS:

AI	AREA INLET
BMP	BEST MANAGEMENT PRACTICE
CI	CURB INLET
℄	CENTER LINE
CU YD	CUBIC YARD
CTR	CENTER
DND	DO NOT DISTURB
DWG	DRAWING
EGL	ENERGY GRADE LINE
EL	ELEVATION
EOP	EDGE OF PAVEMENT
EXIST	EXISTING
FH	FIRE HYDRANT
FES	FLARED END SECTION
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
JB	JUNCTION BOX
LF	LINEAR FEET
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
PG	PROFILE GRADE
RCP	REINFORCED CONCRETE PIPE
SF	SQUARE FEET
SHLDR	SHOULDER
UIP	USE IN PLACE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPT	VERTICAL POINT OF TANGENCY
YD	YARD

LEGEND

L	LANDING AREA
R	RAMP
	TRUNCATED DOMES (DETECTABLE WARNING PANELS)

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
003_GN-02_063.dgn

SHEET TITLE:

GENERAL NOTES SHEET

SHEET NO.

SHEET 3 OF 27

BID DOCUMENTS

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES FOR FIELD VERIFICATION OF ALL UTILITY LOCATIONS AND DISCONNECTION OF UTILITIES TO PROJECT SITE PRIOR TO ANY WORK. THE CONTRACTOR SHALL CONTACT THE DIGSAFE/DIGRITE UTILITY INFORMATION SERVICE. THE CONTRACTOR SHALL COORDINATE AND ALLOW ACCESS FOR UTILITY COMPANIES TO PERFORM ANY DISCONNECTION OR RELOCATION ACTIVITIES.

2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING REMOVAL AND REPLACEMENT OF ALL UTILITIES ON THIS SITE WITH THE OWNER, AND THE APPROPRIATE UTILITY PROVIDER, ALL UTILITIES INCLUDE, BUT ARE NOT LIMITED TO STORM, SANITARY, GAS, ELECTRIC, WATER, TELEPHONE, CABLE, AND FIBER.

3. ALL UTILITY ADJUSTMENTS SHALL BE PERFORMED BY AND BE THE RESPONSIBILITY OF EACH RESPECTIVE UTILITY. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL WATER AND ELECTRIC ADJUSTED OR RELOCATED BY OTHERS WILL BE PERFORMED BY THE CITY OF LOCKWOOD. ANY DELAYS AS A RESULT OR RESPONSIVENESS FROM THE UTILITY COMPANIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. ALL UTILITIES SERVING STRUCTURES IMMEDIATELY SURROUNDING THE DEMOLITION AREA SHALL REMAIN IN SERVICE THROUGHOUT DEMOLITION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY DAMAGE TO SUCH UTILITIES OR STRUCTURES (VALVE BOXES, METER COVERS, MANHOLE LIDS, ETC.) DURING DEMOLITION. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, REPAIR OR REPLACE ANY DAMAGE TO PUBLIC UTILITY SERVICES CAUSED BY CONTRACTOR ACTIVITIES.

DEMOLITION NOTES (CONT'D):

5. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO NOT DAMAGE ANY EXISTING PUBLIC INFRASTRUCTURE, INCLUDING SIGNING, SIDEWALKS, STREET LIGHTING, EXIST PUBLIC UTILITIES, STREET OR PARKING LOT PAVEMENT, CONCRETE OR ASPHALT CURBING. ANY ITEMS REMOVED AND STORED SHALL BE COORDINATED AND APPROVED BY CITY STAFF. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, REMOVE, STORE, REPAIR OR REPLACE ANY DAMAGED PORTIONS OF THE PUBLIC INFRASTRUCTURE CAUSED BY DEMOLITION ACTIVITIES AND/OR HAULING ACTIVITIES.

6. THE CONTRACTOR SHALL REMOVE TREES, SHRUBS, BRUSH, GROUND VEGETATION MARKED BY AN "X" LOCATED WITHIN THE DEMOLITION SITE UNLESS OTHERWISE INDICATED ON THE DEMOLITION PLANS. ALL TREES WITHIN RIGHT-OF-WAY SHALL BE CLEARED & GRUBBED. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING TREES, SHRUBS, AND PLANTS OUTSIDE THE RIGHT-OF-WAY UNLESS OTHERWISE NOTED.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAUL-OFF AND DISPOSAL OF ALL ITEMS TO BE REMOVED. THE CONTRACTOR SHALL NOT USE ANY REMOVED PAVEMENT OR CURB AS BACKFILL.

8. IF THE CONTRACTOR ENCOUNTERS UNSUITABLE OR HAZARDOUS MATERIAL AT ANY TIME, THE CONTRACTOR SHALL STOP WORK AND IMMEDIATELY NOTIFY THE ENGINEER.

DEMOLITION NOTES (CONT'D):

9. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING DEMOLITION AND IS RESPONSIBLE FOR ALL DEWATERING NECESSARY FOR CONSTRUCTION.

10. ALL EXCAVATED OR OTHERWISE DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AS NEARLY AS IS PRACTICAL. THE REPLACEMENT MATERIALS SHALL BE COMPACTED SO AS TO PREVENT SETTLEMENT.

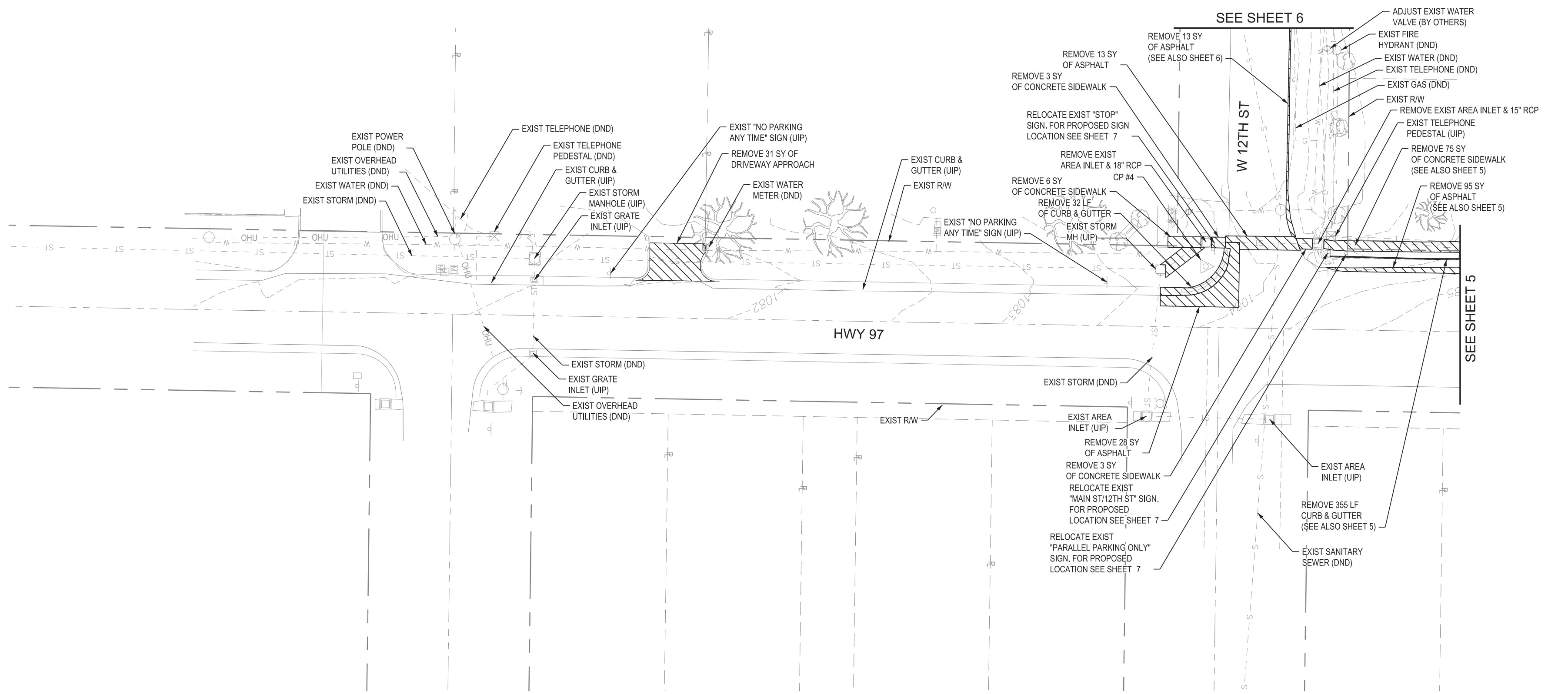
11. THE CONTRACTOR SHALL INSTALL EROSION CONTROL PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN AND ADJUST IN ACCORDANCE WITH STAGING CHART AS CONSTRUCTION PROGRESSES.

12. THE CONTRACTOR SHALL VERIFY ALL DEMOLITION DIMENSIONS SHOWN PRIOR TO COMMENCING DEMOLITION.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK WITH THE PROPERTY OWNERS, IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRIVEWAY FOR RESIDENT ACCESS.

14. THE CONTRACTOR SHALL REMOVE & REPLACE FENCE AS NECESSARY TO COMPLETE GRADING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING FENCE & EXERCISING CARE DURING DEMOLITION AND ERECTION. ANY DAMAGED FENCE SHALL BE REPLACED WITH NEW FOR NO SEPARATE PAYMENT.

LEGEND:
- REMOVAL
- REMOVE



TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI JUSTIN W. LIKES NUMBER PE-2010025271 PROFESSIONAL ENGINEER 08-03-17

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
004_PR-01_063.dgn

SHEET TITLE:

REMOVAL PLAN 1 OF 3

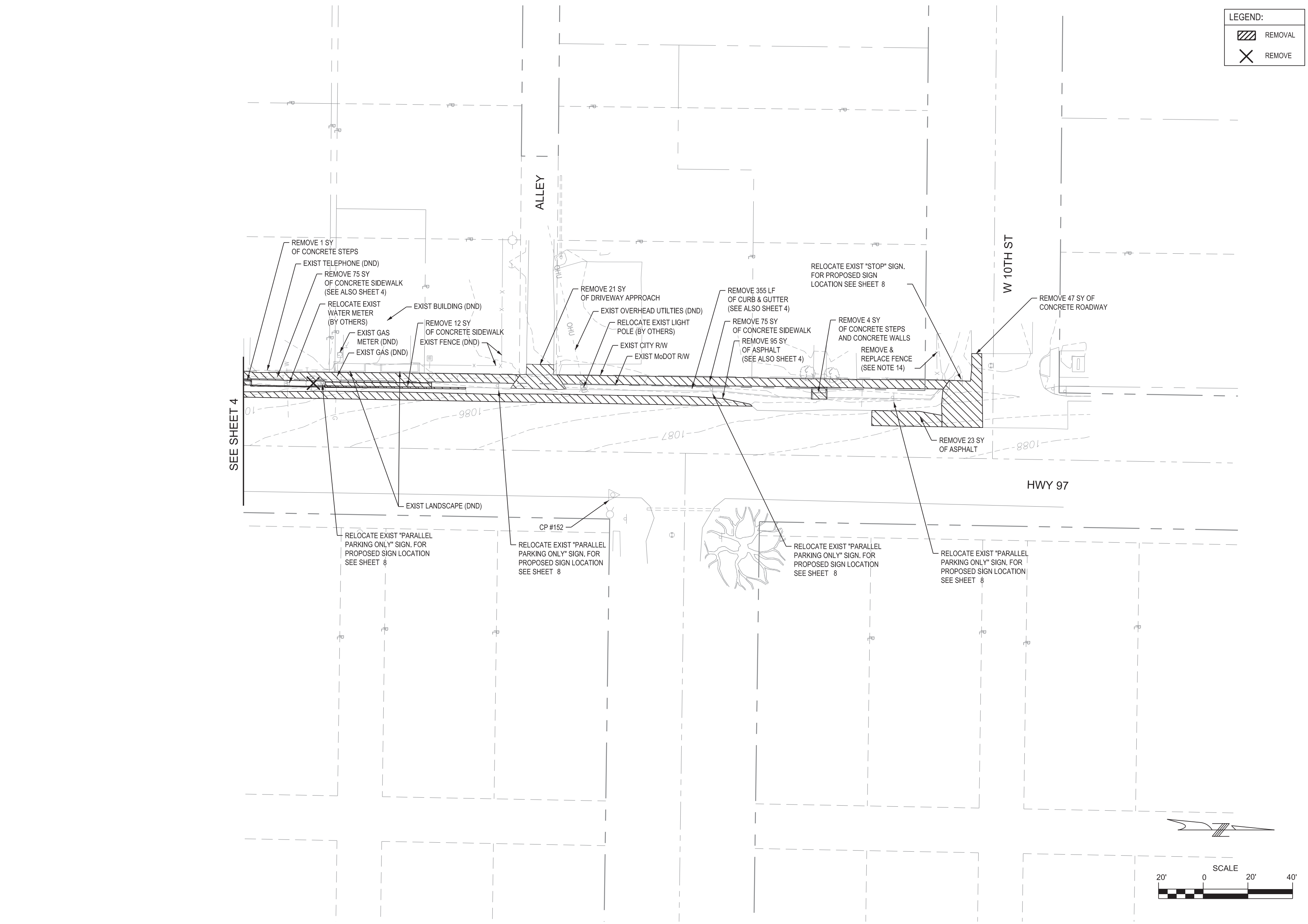
SHEET NO.

SHEET 4 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

BID DOCUMENTS

ebaker 8/2/2017 • 3:43:18 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\004_PR-01_063.dgn



TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
005_PR-02_063.dgn

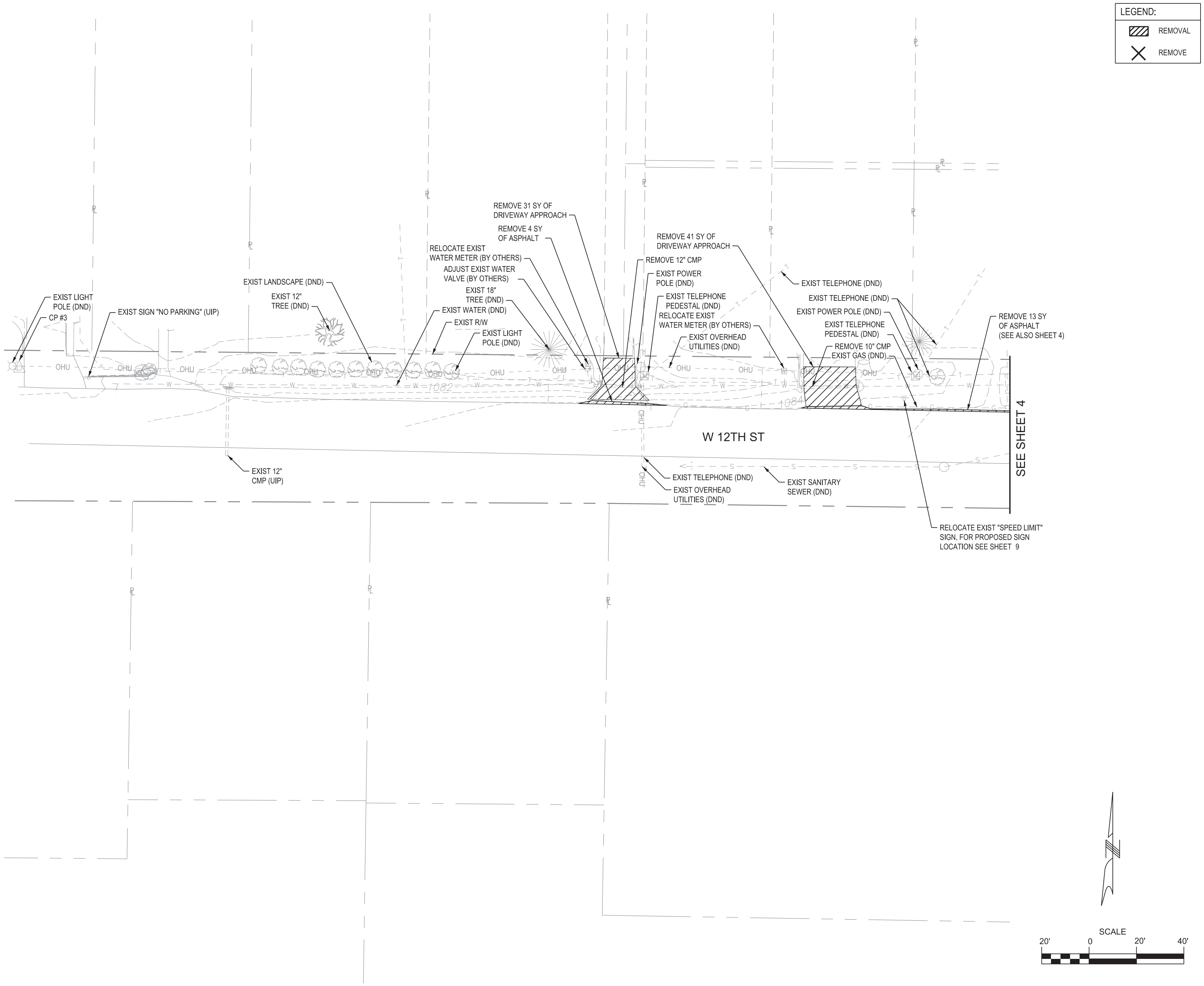
SHEET TITLE:
REMOVAL PLAN 2 OF 3

SHEET NO.
SHEET 5 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

ebaker 8/2/2017 3:43:20 PM G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\005_PR-02_063.dgn

BID DOCUMENTS



TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI — JUSTIN W. LIKES — NUMBER PE-2010025271 — PROFESSIONAL ENGINEER — 08-03-17

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
006_PR-03_063.dgn

SHEET TITLE:

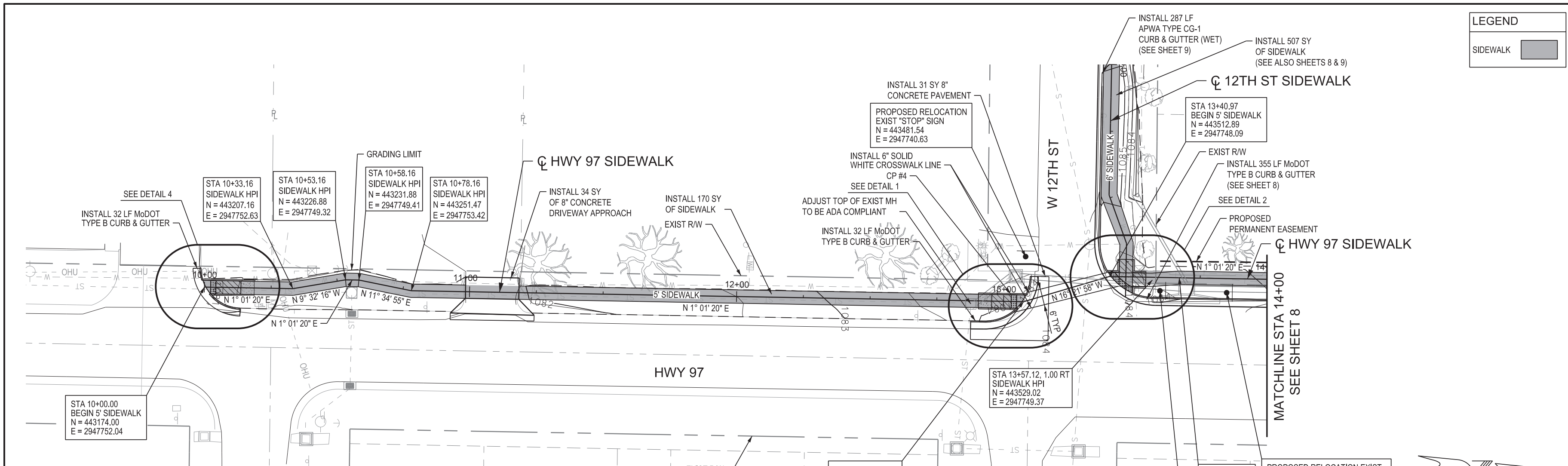
REMOVAL PLAN 3 OF 3

SHEET NO.

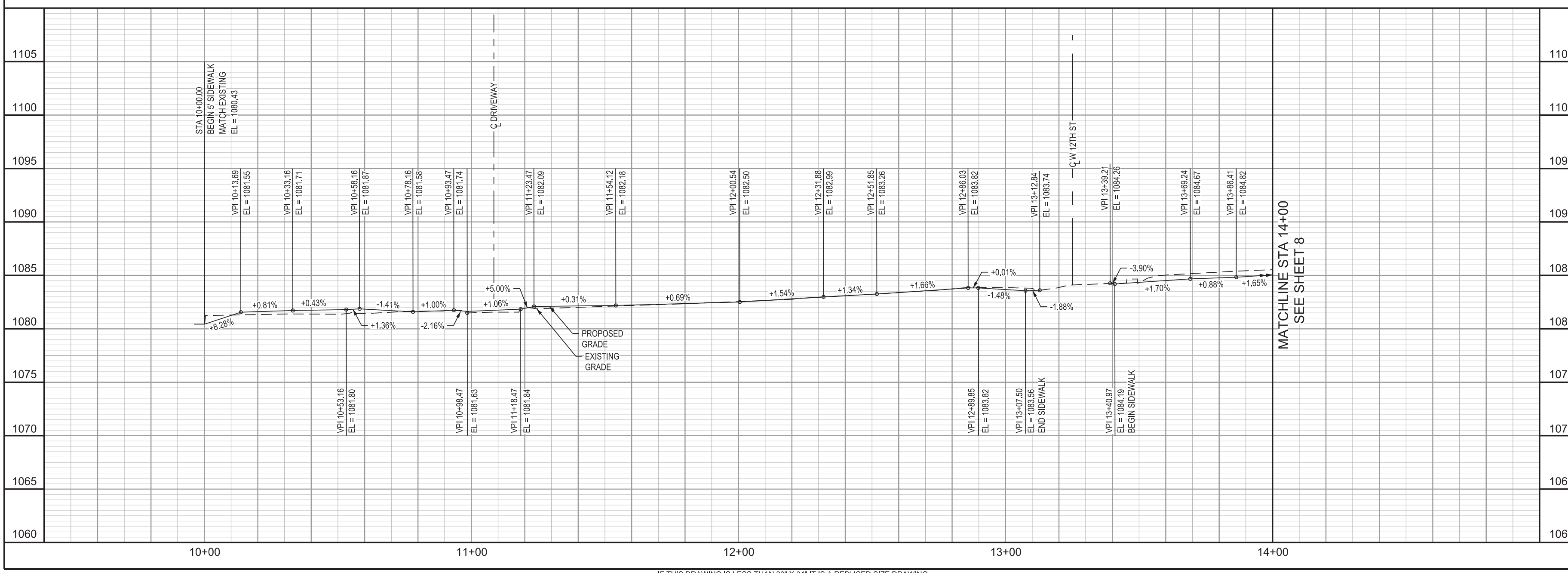
SHEET 6 OF 27

BID DOCUMENTS

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



NOTES:
1. FOR CURB & GUTTER DETAILS, SEE SHEET 25.
2. FOR MoDOT CONCRETE SIDEWALK PAVEMENT SECTION DETAILS, SEE SHEET 21.
3. FOR TYPICAL MoDOT CURB RAMP DETAILS, SEE SHEETS 22, 23 & 24.
4. FOR PAVEMENT SECTION DETAILS, SEE SHEET 25.
5. FOR INTERSECTION DETAILS, SEE SHEET 20.
6. FOR DRIVEWAY APPROACH DETAILS, SEE SHEET 28.



IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI JUSTIN W. LIKES NUMBER PE-2010025271 PROFESSIONAL ENGINEER 08-03-17
JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK DATE DESCRIPTION

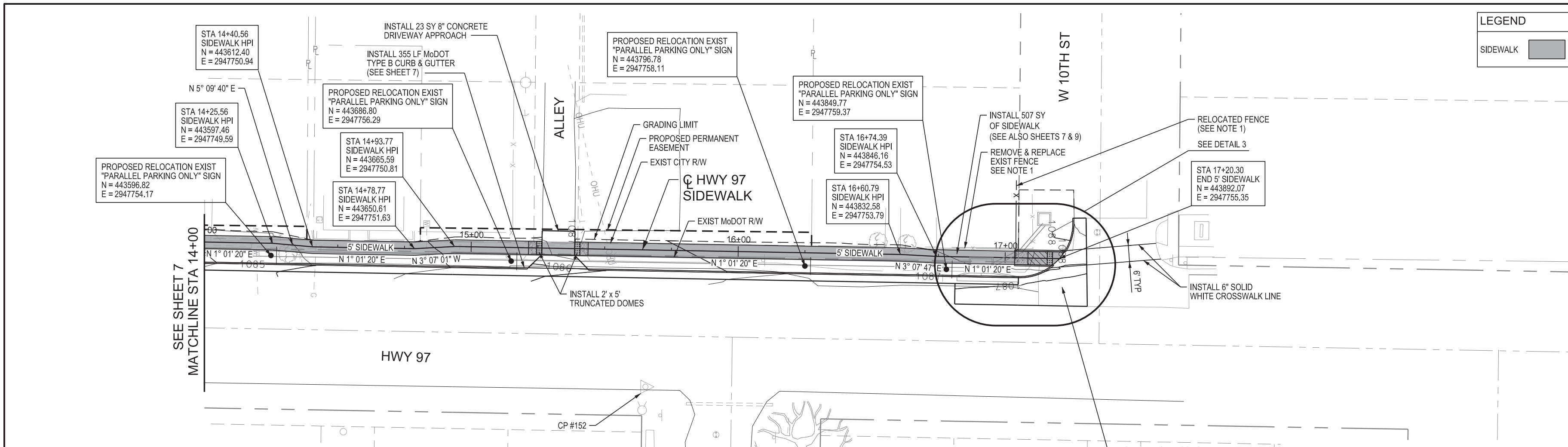
PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
007_PP-01_063.dgn

SHEET TITLE:
SIDEWALK PLAN & PROFILE 1 OF 3

SHEET NO.
SHEET 7 OF 27

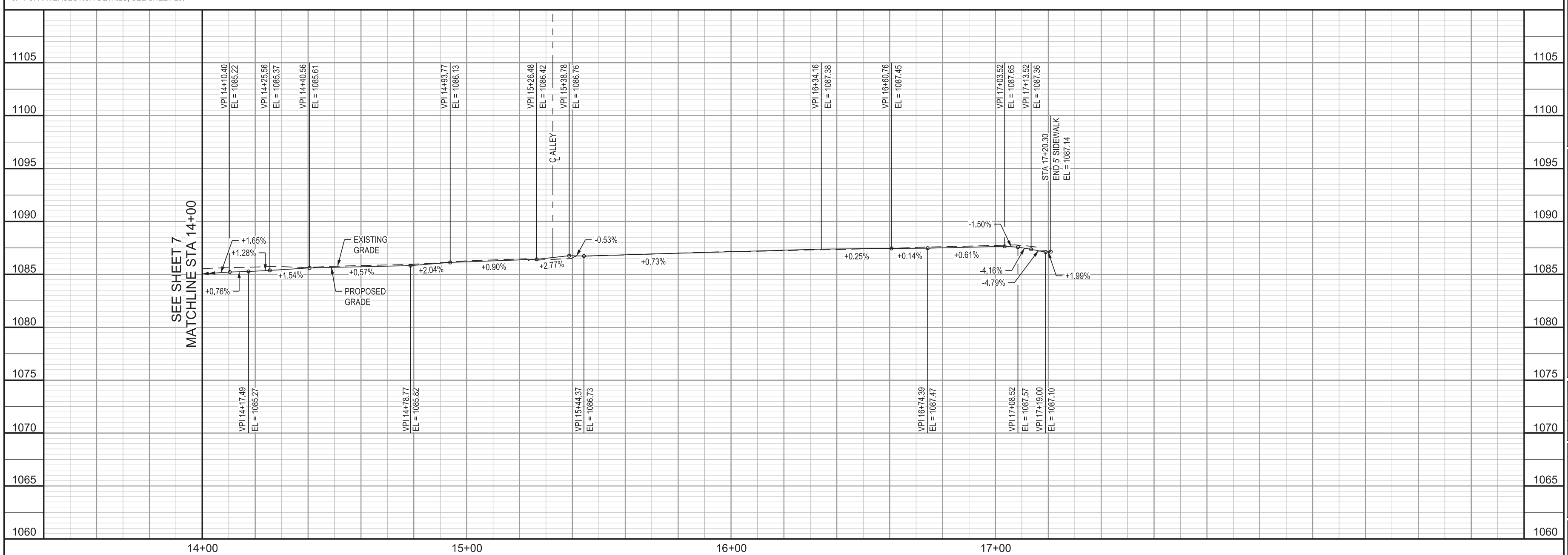
BID DOCUMENTS

ebaker 8/2/2017 • 3:43:23 PM • G:\16-063 City of Lockwood, MO - TAP-990(739) Sidewalk Improvements\Sheets\007_PP-01_063.dgn



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING FENCE TO ALLOW CONSTRUCTION OF STORM SEWER & SIDEWALK. THE CONTRACTOR SHALL PLACE FENCE ONE FOOT INSIDE PROPERTY LINE. THIS WORK SHALL BE CONSIDERED INCIDENTAL & NO SEPERATE PAYMENT WILL BE MADE TO THE CONTRACTOR. THE CONTRACTOR SHALL EXCERCISE CARE AND SHALL BE RESPONSIBLE FOR REPLACING THE FENCE TO "PRE-EXISTING" OR "BETTER" CONDITION.
2. FOR CURB & GUTTER DETAILS, SEE SHEET 25.
3. FOR PAVEMENT SECTION DETAILS, SEE SHEET 25.
4. FOR TYPICAL MoDOT CURB RAMP DETAILS, SEE SHEETS 22, 23 & 24.
5. FOR DRIVEWAY APPROACH DETAILS, SEE SHEET 28.
6. FOR INTERSECTION DETAILS, SEE SHEET 20.



IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
008_PP-02_063.dgn

SHEET TITLE:

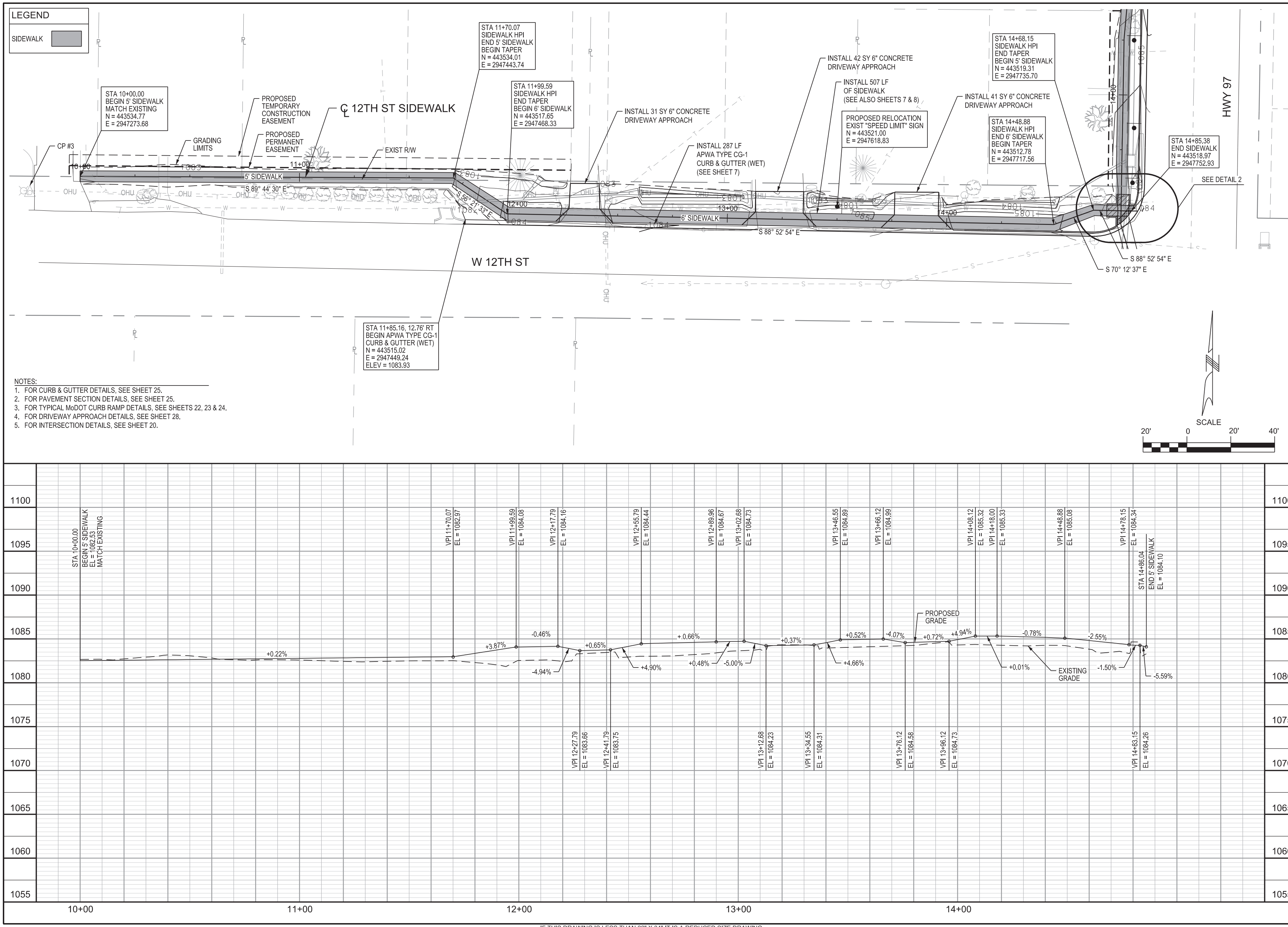
SIDEWALK
PLAN & PROFILE
2 OF 3

SHEET NO.

SHEET 8 OF 27

BID DOCUMENTS

ebaker
8/2/2017 • 3:43:25 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\008_PP-02_063.dgn



NOTES:
1. FOR CURB & GUTTER DETAILS, SEE SHEET 25.
2. FOR PAVEMENT SECTION DETAILS, SEE SHEET 25.
3. FOR TYPICAL MoDOT CURB RAMP DETAILS, SEE SHEETS 22, 23 & 24.
4. FOR DRIVEWAY APPROACH DETAILS, SEE SHEET 28.
5. FOR INTERSECTION DETAILS, SEE SHEET 20.

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
009_PP-03_063.dgn

SHEET TITLE:

SIDEWALK
PLAN & PROFILE
3 OF 3

SHEET NO.
SHEET 9 OF 27

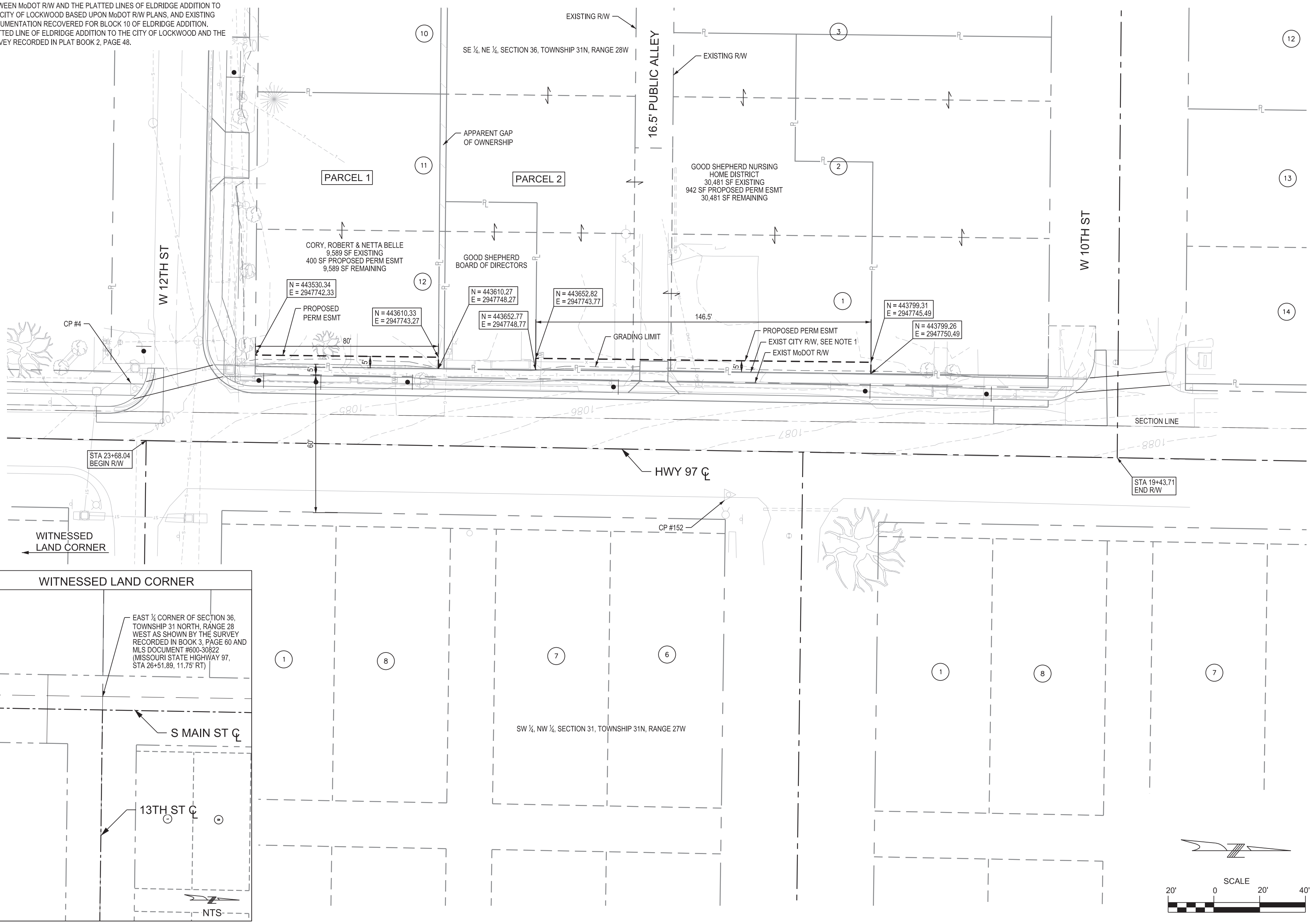
IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

BID DOCUMENTS

ebaker 8/2/2017 • 3:43:27 PM • G:\16-063 City of Lockwood, MO - TAP -9900(739) Sidewalk Improvements\Sheets\009_PP-03_063.dgn

NOTES:

1. APPARENT AREA OF DEDICATED RIGHT-OF-WAY TO THE CITY OF LOCKWOOD BETWEEN MoDOT R/W AND THE PLATTED LINES OF ELDRIDGE ADDITION TO THE CITY OF LOCKWOOD BASED UPON MoDOT R/W PLANS, AND EXISTING MONUMENTATION RECOVERED FOR BLOCK 10 OF ELDRIDGE ADDITION, PLATTED LINE OF ELDRIDGE ADDITION TO THE CITY OF LOCKWOOD AND THE SURVEY RECORDED IN PLAT BOOK 2, PAGE 48.



IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI JUSTIN W. LIKES NUMBER PE-2010025271 PROFESSIONAL ENGINEER
08-03-17
JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

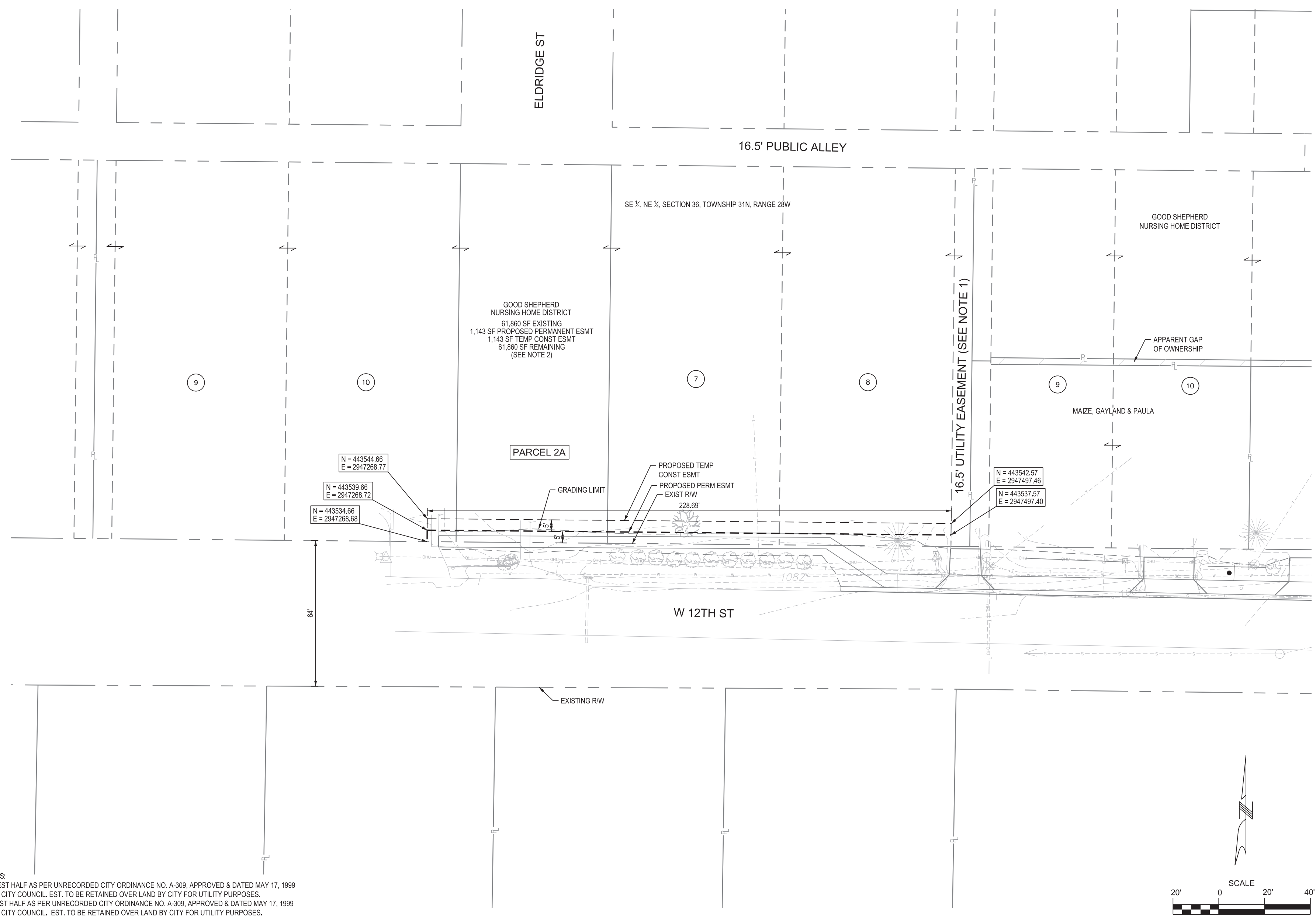
PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
010_RW-01_063.dgn

SHEET TITLE:
RIGHT-OF-WAY PLAN
SHEET 1 OF 2

SHEET NO.
SHEET 10 OF 27

BID DOCUMENTS

ebaker 8/2/2017 3:43:30 PM G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\010_RW-01_063.dgn



NOTES:
1. WEST HALF AS PER UNRECORDED CITY ORDINANCE NO. A-309, APPROVED & DATED MAY 17, 1999 BY CITY COUNCIL. EST. TO BE RETAINED OVER LAND BY CITY FOR UTILITY PURPOSES.
EAST HALF AS PER UNRECORDED CITY ORDINANCE NO. A-309, APPROVED & DATED MAY 17, 1999 BY CITY COUNCIL. EST. TO BE RETAINED OVER LAND BY CITY FOR UTILITY PURPOSES.
2. VACATED CHESTNUT ST PER THE UNRECORDED CITY ORDINANCE NO. 164, APPROVED & DATED SEPT. 2, 1959.

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER
JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
011_RW-02_063.dgn

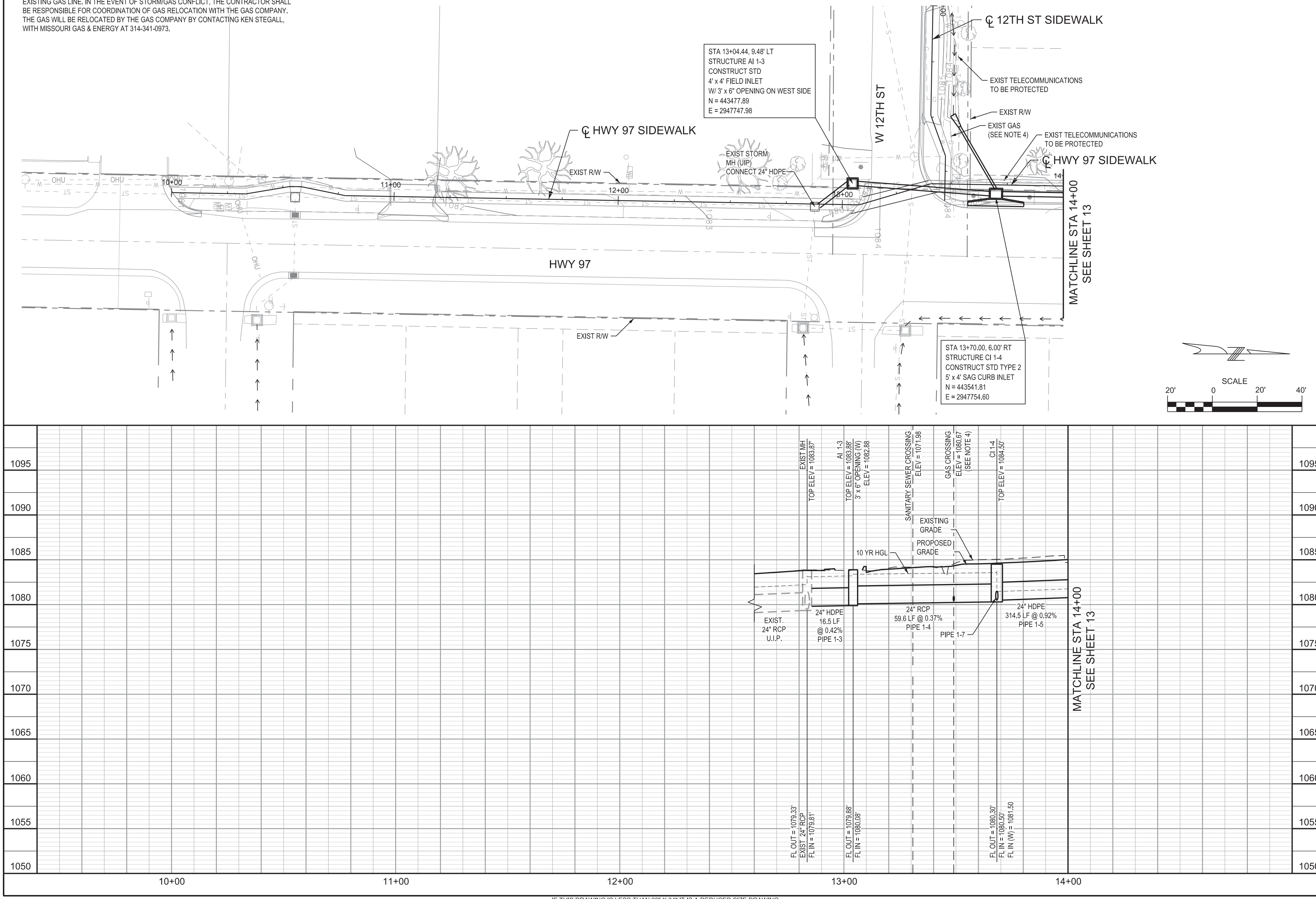
SHEET TITLE:
RIGHT-OF-WAY PLAN
SHEET 2 OF 2

SHEET NO.
SHEET 11 OF 27

BID DOCUMENTS

ebaker
8/2/2017 • 3:43:31 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\011_RW-02_063.dgn

NOTE:
1. SEE CURB INLET DETAIL ON SHEET 26.
2. FOR CONNECTION TO EXIST STORM BOX SEE SHEET 27.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING DEPTH AND LOCATION OF EXISTING GAS LINE. IN THE EVENT OF STORM/GAS CONFLICT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF GAS RELOCATION WITH THE GAS COMPANY. THE GAS WILL BE RELOCATED BY THE GAS COMPANY BY CONTACTING KEN STEGALL, WITH MISSOURI GAS & ENERGY AT 314-341-0973.



IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
PROFESSIONAL ENGINEER
08-03-17

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:		
MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
012_DR-01_063.dgn

SHEET TITLE:

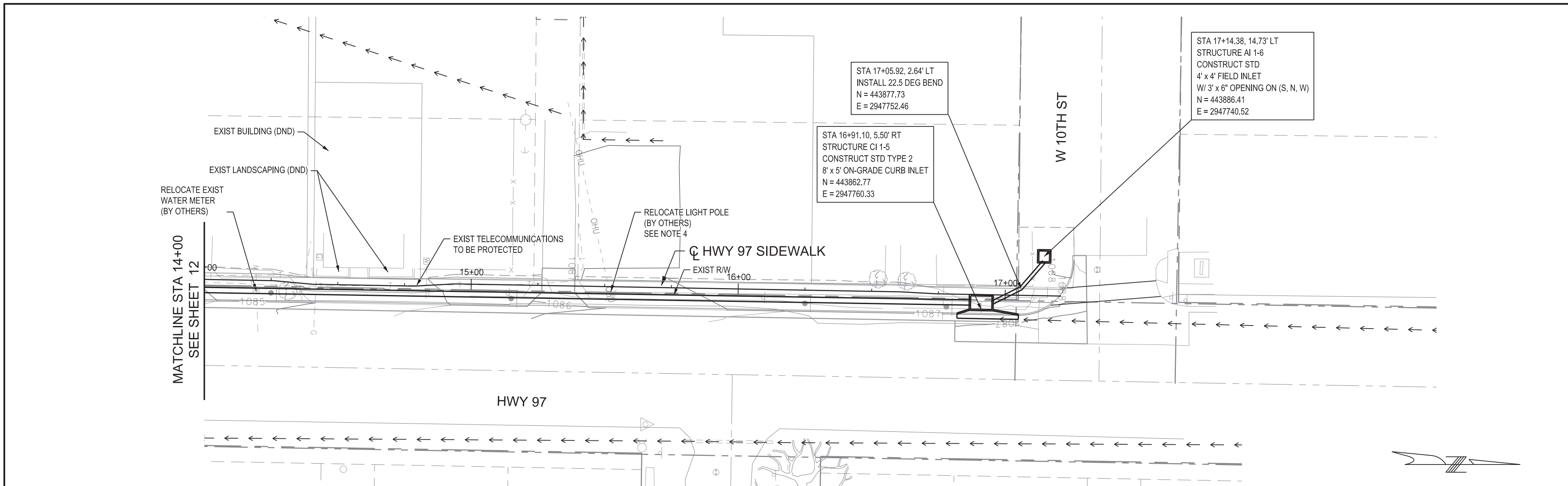
DRAINAGE
PLAN & PROFILE
1 OF 3

SHEET NO.

SHEET 12 OF 27

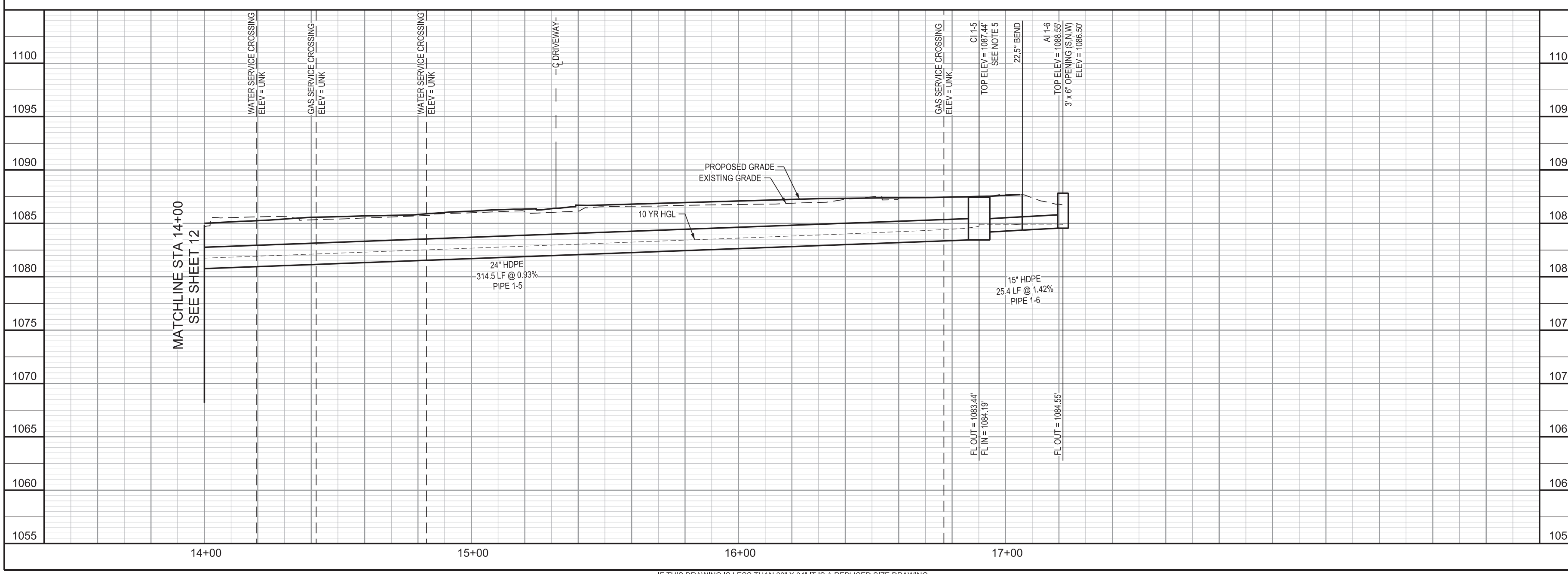
BID DOCUMENTS

ebaker 8/2/2017 • 3:43:33 PM • G:\16-063 City of Lockwood, MO - TAP -990(739) Sidewalk Improvements\Sheets\012_DR-01_063.dgn



NOTES:
1. SEE CURB INLET DETAIL ON SHEET 26.
2. CONTRACTOR SHALL POTHOLE UTILITY CROSSINGS TO CONFIRM DEPTH & LOCATION PRIOR TO STORM CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ORDERING STORM BOXES.
3. SEE FIELD INLET DETAIL ON SHEET 25.
4. THE CONTRACTOR SHALL COORDINATE LIGHT RELOCATION WITH THE CITY. THE RELOCATION WILL BE DONE BY THE CITY.

SCALE
20' 0 20' 40'



IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

ebaker 8/2/2017 • 3:43:34 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\013_DR-02_063.dgn

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

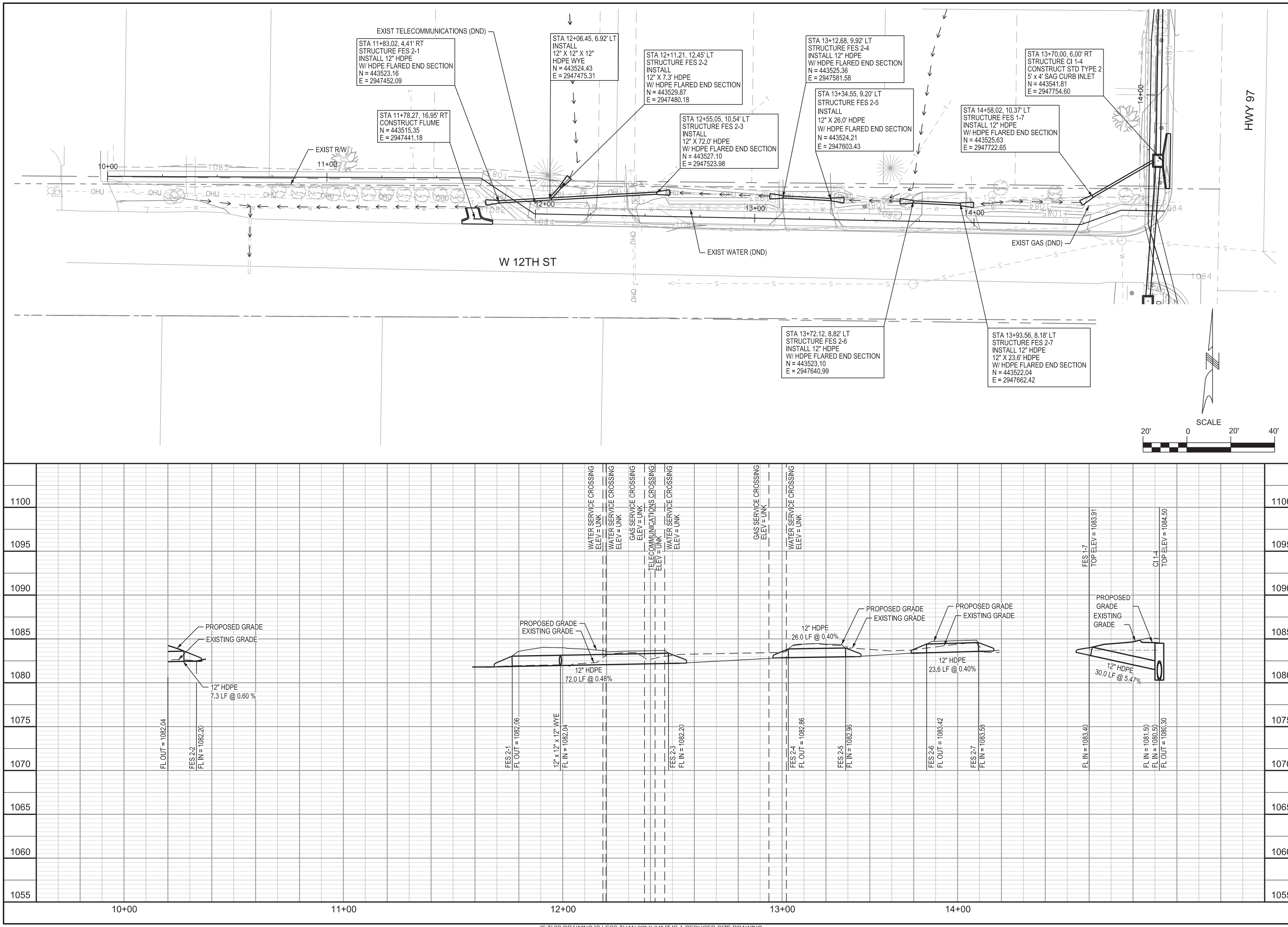
REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
013_DR-02_063.dgn

SHEET TITLE:
DRAINAGE PLAN & PROFILE 2 OF 3

SHEET NO.
SHEET 13 OF 27

BID DOCUMENTS



IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
PROFESSIONAL ENGINEER
08-03-17

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

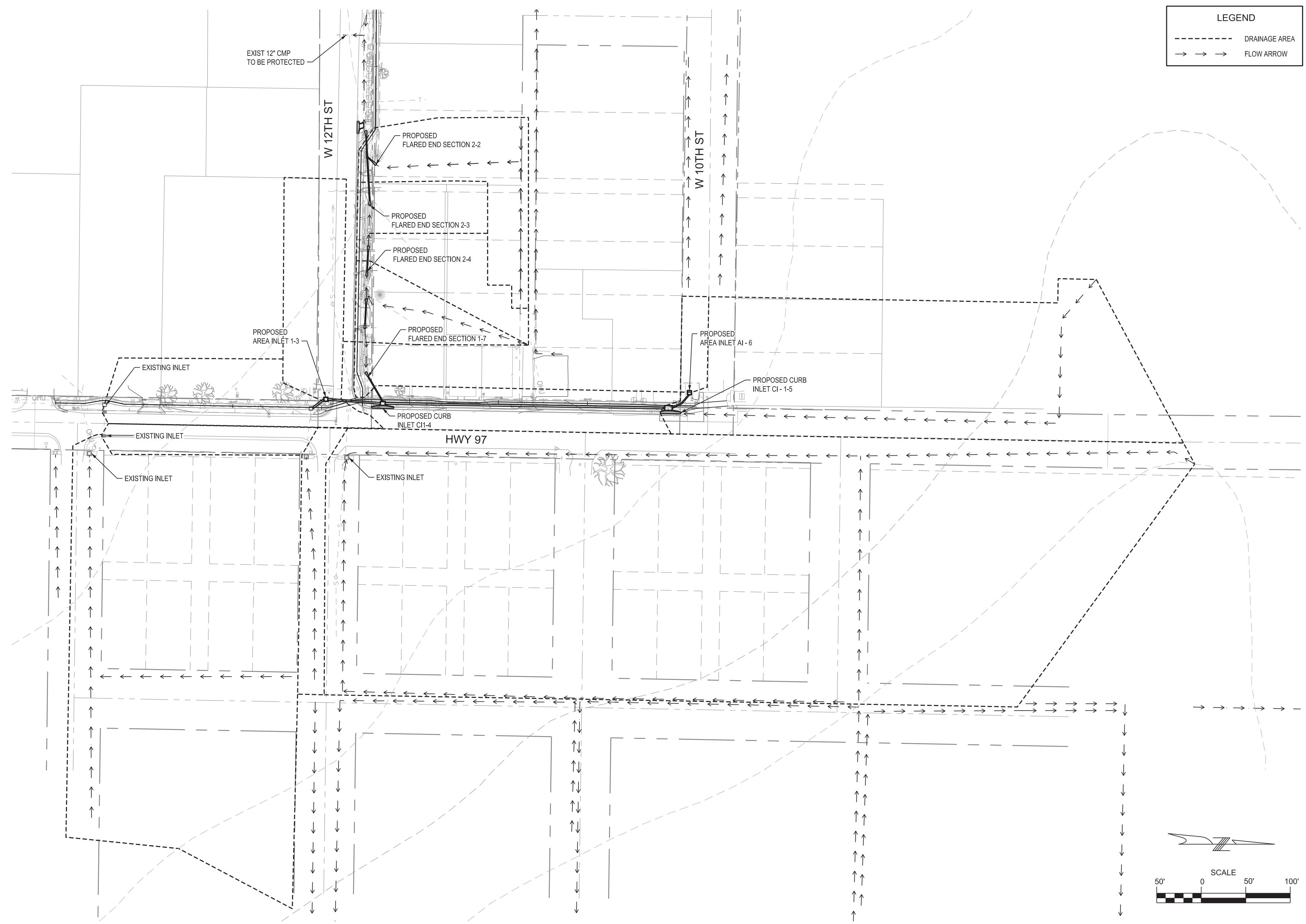
PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
014_DR-03_063.dgn

SHEET TITLE:
DRAINAGE
PLAN & PROFILE
3 OF 3

SHEET NO.
SHEET 14 OF 27

BID DOCUMENTS

ebaker
8/2/2017 • 3:43:35 PM • G:\16-063 City of Lockwood, MO - TAP -9900(739) Sidewalk Improvements\Sheets\014_DR-03_063.dgn



TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI JUSTIN W. LIKES NUMBER PE-2010025271 PROFESSIONAL ENGINEER

08-03-17

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 50'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
015_DA-01_063.dgn

SHEET TITLE:

DRAINAGE AREA MAP

SHEET NO.

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

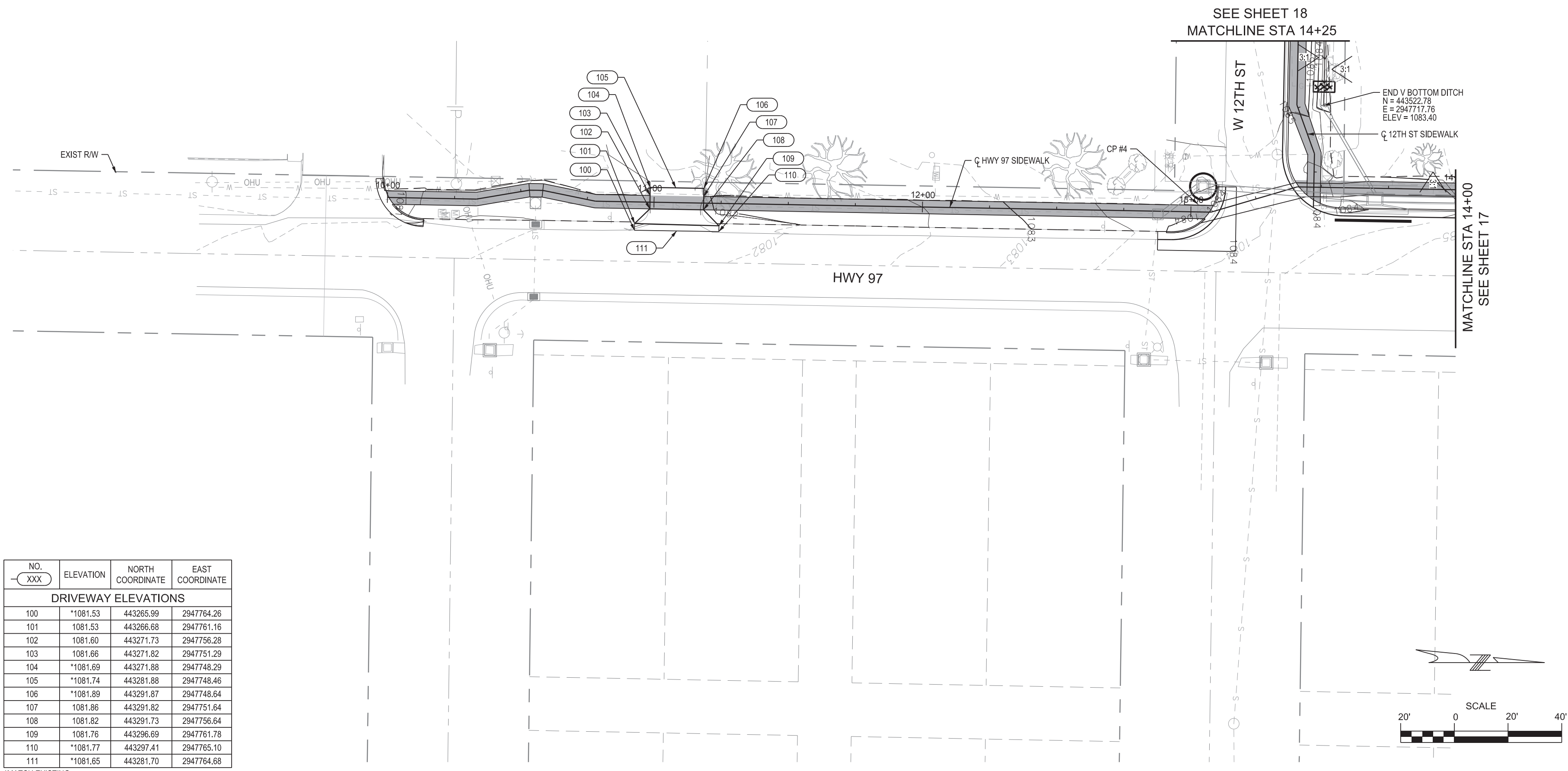
BID DOCUMENTS

ebaker 8/2/2017 • 3:43:49 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\015_DA-01_063.dgn

LEGEND

— — — — —	LIMITS OF DISTURBANCE
▬▬▬	GRAVEL BAG INLET PROTECTION
⊠	ALTERNATE DITCH CHECK

NOTES:
1. SEE MoDOT STD PLAN 806.10 AND SPECIFICATION SECTIONS 800 FOR EROSION CONTROL DETAILS.
2. ALL DISTURBED AREAS SHALL HAVE SEED AND MULCH APPLIED AFTER GRADING.



NO. (XXX)	ELEVATION	NORTH COORDINATE	EAST COORDINATE
DRIVEWAY ELEVATIONS			
100	*1081.53	443265.99	2947764.26
101	1081.53	443266.68	2947761.16
102	1081.60	443271.73	2947756.28
103	1081.66	443271.82	2947751.29
104	*1081.69	443271.88	2947748.29
105	*1081.74	443281.88	2947748.46
106	*1081.89	443291.87	2947748.64
107	1081.86	443291.82	2947751.64
108	1081.82	443291.73	2947756.64
109	1081.76	443296.69	2947761.78
110	*1081.77	443297.41	2947765.10
111	*1081.65	443281.70	2947764.68

*MATCH EXISTING

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
016_GR-01_063.dgn

SHEET TITLE:

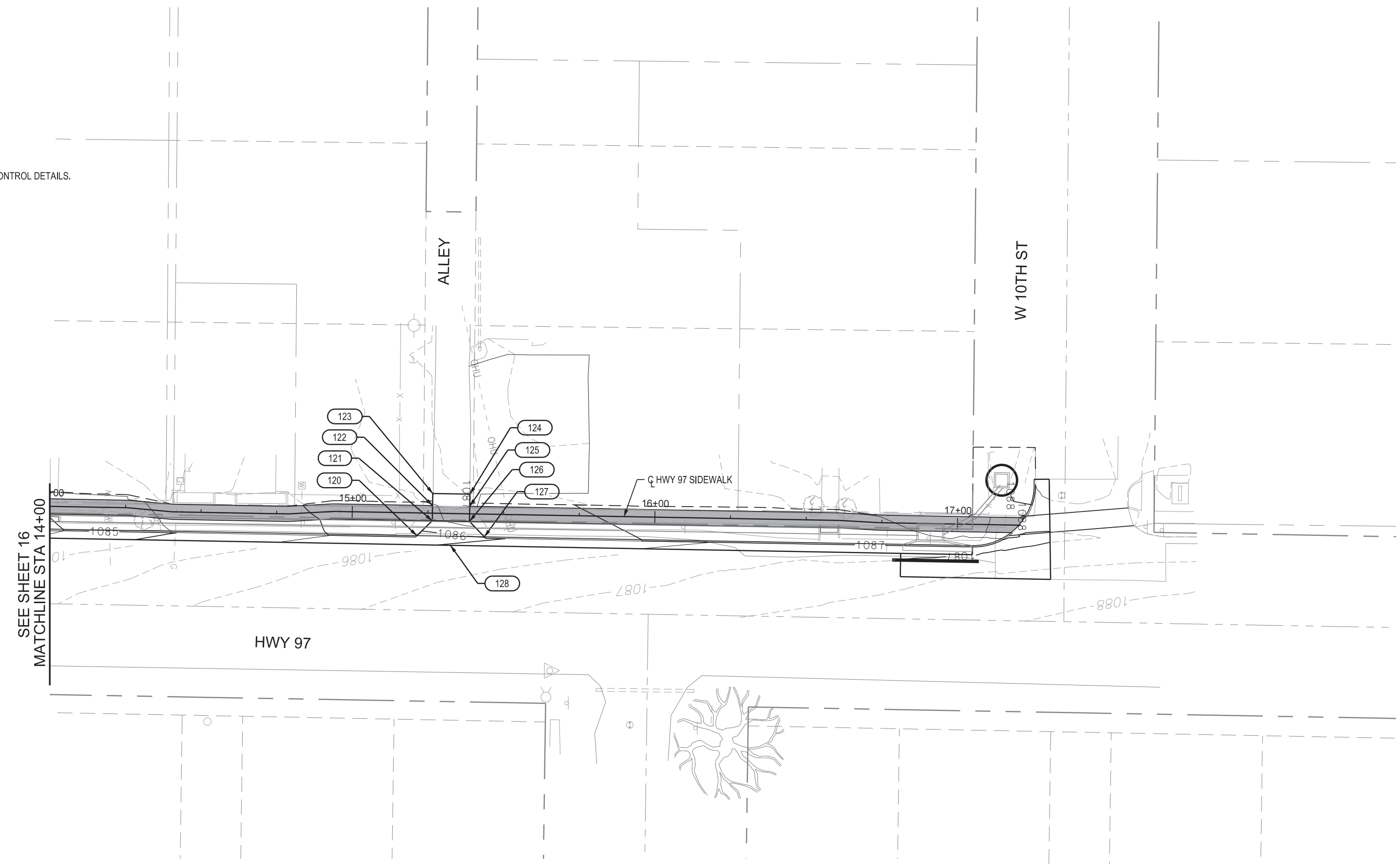
GRADING & EROSION CONTROL 1 OF 3

SHEET NO.

LEGEND

— — — — —	LIMITS OF DISTURBANCE
▬▬▬	GRAVEL BAG INLET PROTECTION
⊠	ALTERNATE DITCH CHECK

NOTES:
1. SEE MoDOT STD PLAN 806.10 AND SPECIFICATION SECTIONS 800 FOR EROSION CONTROL DETAILS.
2. ALL DISTURBED AREAS SHALL HAVE SEED AND MULCH APPLIED AFTER GRADING.



NO. (XXX)	ELEVATION	NORTH COORDINATE	EAST COORDINATE
DRIVEWAY ELEVATIONS			
120	1085.82	443693.16	2947758.80
121	1086.39	443698.25	2947753.89
122	1086.45	443698.34	2947748.89
123	*1086.76	443698.41	2947744.89
124	*1087.01	443710.70	2947745.11
125	1086.79	443710.63	2947749.11
126	1086.73	443710.54	2947754.11
127	1086.02	443715.45	2947759.20
128	*1086.00	443704.25	2947762.00

*MATCH EXISTING

SCALE
20' 0 20' 40'

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER PE-2010025271
08-03-17
PROFESSIONAL ENGINEER
JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
017_GR-02_063.dgn

SHEET TITLE:
GRADING & EROSION CONTROL 2 OF 3

SHEET NO.
SHEET 17 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

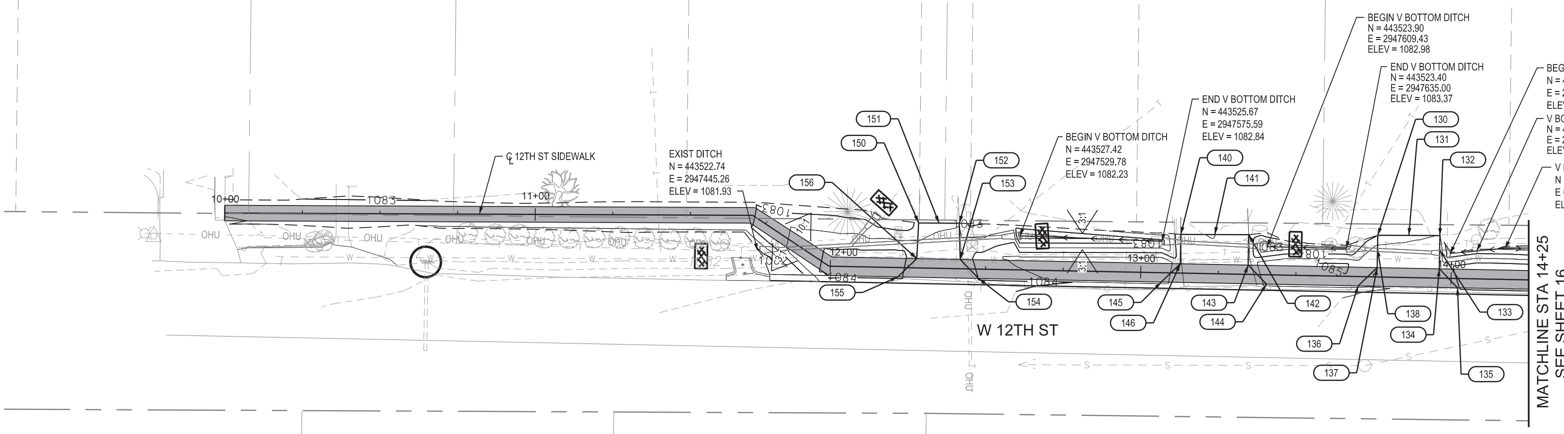
ebaker 8/2/2017 - 3:43:53 PM - G:\16-063 City of Lockwood, MO - TAP -990(739) Sidewalk Improvements\Sheets\017_GR-02_063.dgn

BID DOCUMENTS

LEGEND

— — — —	LIMITS OF DISTURBANCE
———	GRAVEL BAG INLET PROTECTION
⊠	ALTERNATE DITCH CHECK

NOTES:
1. SEE MoDOT STD PLAN 806.10 AND SPECIFICATION SECTIONS 800 FOR EROSION CONTROL DETAILS.
2. ALL DISTURBED AREAS SHALL HAVE SEED AND MULCH APPLIED AFTER GRADING.



NO. (XXX)	ELEVATION	NORTH COORDINATE	EAST COORDINATE
DRIVEWAY ELEVATIONS			
130	*1084.00	443527.60	2947645.08
131	*1084.29	443527.55	2947655.08
132	*1084.53	443527.51	2947665.08
133	1084.86	443522.81	2947664.99
134	1084.77	443516.81	2947664.87
135	1084.97	443510.70	2947670.76
136	1084.78	443511.32	2947638.76
137	1084.63	443517.20	2947644.88
138	1084.72	443523.20	2947645.00
140	*1084.34	443527.89	2947581.64
141	*1084.50	443527.84	2947592.57
142	*1084.35	443527.79	2947603.50
143	1084.36	443518.01	2947603.31
144	1084.55	443511.90	2947609.19
145	1084.70	443512.56	2947575.34
146	1084.28	443518.44	2947581.45
150	*1083.28	443531.57	2947497.19
151	*1083.42	443531.51	2947503.75
152	*1083.47	443531.45	2947510.27
153	1083.80	443519.82	2947510.57
154	1084.00	443513.71	2947516.46
155	1084.13	443514.22	2947490.48
156	1083.71	443520.10	2947496.58

*MATCH EXISTING

SCALE
20' 0 20' 40'

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER PE-2010025271
08-03-17
PROFESSIONAL ENGINEER
JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 20'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
018_GR-03_063.dgn

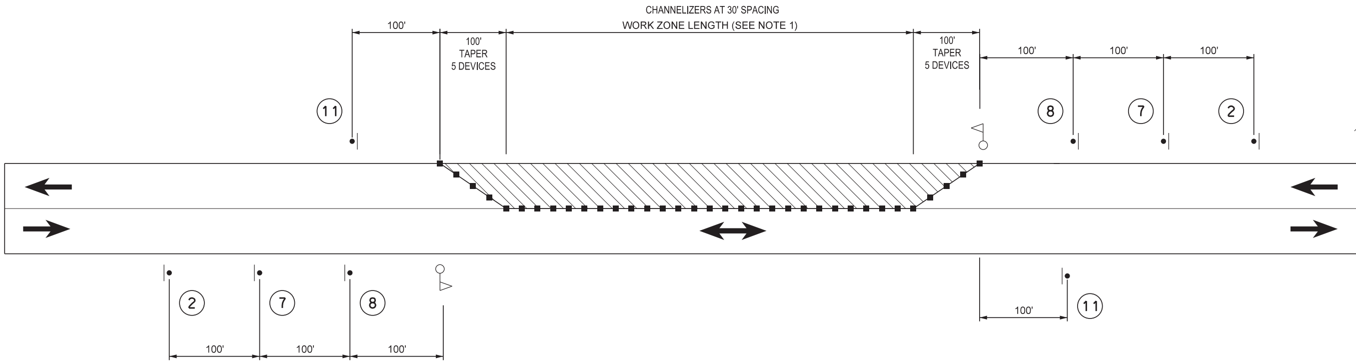
SHEET TITLE:
GRADING & EROSION CONTROL
3 OF 3

SHEET NO.
SHEET 18 OF 27

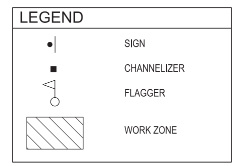
BID DOCUMENTS

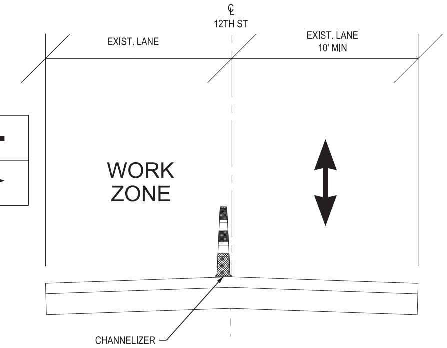
IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

ebaker
8/2/2017 - 3:43:54 PM - G:\16-063 City of Lockwood, MO - TAP -990(739) Sidewalk Improvements\Sheets\018_GR-03_063.dgn



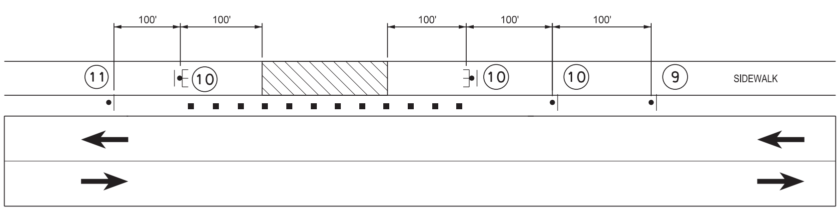
12TH ST TRAFFIC CONTROL

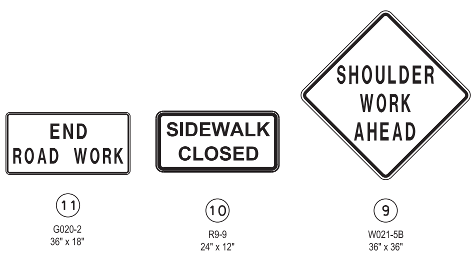




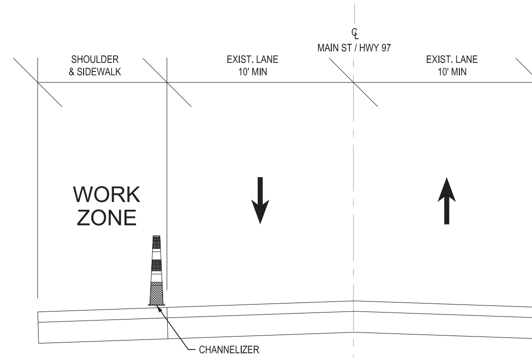
RESIDENTIAL ST TYPICAL SECTION
NOT TO SCALE

NOTE:
1. WHEN CONSTRUCTING RAMPS AND STORM IN INTERSECTION OF HWY 97 / 12TH ST, THE CONTRACTOR SHALL HAVE ADVANCED WARNING SIGNS ALONG HWY 97. WITH PRE APPROVAL FROM THE CITY, THE CONTRACTOR MAY ELECT TO CLOSE THE INTERSECTION WITH TYPE III BARRICADES AND ROAD CLOSED SIGNS. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AT THE PRE-CONSTRUCTION MEETING.





HWY 97 TRAFFIC CONTROL



TYPICAL SECTION
NOT TO SCALE

NOTE:
1. WHEN CONSTRUCTING RAMPS AND STORM IN INTERSECTION OF HWY 97 / 12TH ST, THE CONTRACTOR SHALL HAVE ADVANCED WARNING SIGNS ALONG HWY 97. WITH PRE APPROVAL FROM THE CITY, THE CONTRACTOR MAY ELECT TO CLOSE THE INTERSECTION WITH TYPE III BARRICADES AND ROAD CLOSED SIGNS. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AT THE PRE-CONSTRUCTION MEETING.

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
019-TC-01_063.dgn

SHEET TITLE:
TRAFFIC CONTROL PLAN

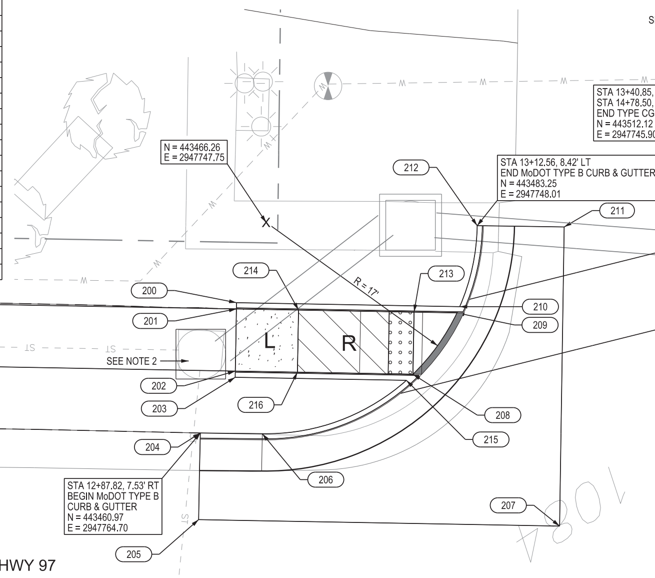
SHEET NO.
SHEET 19 OF 27

BID DOCUMENTS

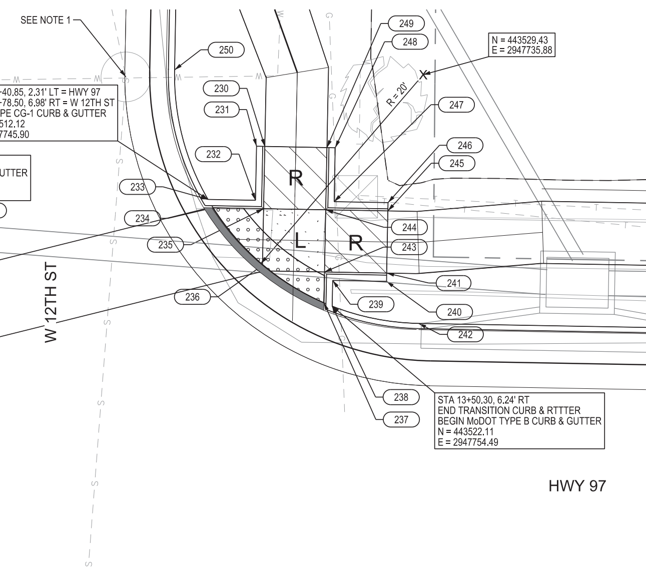
ebaker 8/2/2017 • 3:43:55 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\019-TC-01_063.dgn

NO. XXX	ELEVATION	NORTH COORDINATE	EAST COORDINATE
200	1083.85	443463.88	2947754.21
201	1083.85	443463.87	2947754.71
202	1083.77	443463.78	2947759.71
203	1083.77	443463.77	2947760.21
204	*1083.67	443460.97	2947764.70
205	*1083.70	443460.83	2947771.66
206	1084.19	443465.95	2947764.75
207	*1084.01	443489.88	2947772.18
208	1083.56	443478.08	2947759.97
209	1083.58	443481.62	2947755.03
210	1084.24	443481.85	2947754.53
211	*1083.92	443490.25	2947748.12
212	1084.25	443483.25	2947748.01
213	1083.64	443478.17	2947754.97
214	1083.77	443468.87	2947754.80
215	1084.21	443477.55	2947760.46
216	1083.70	443468.78	2947759.80

*MATCH EXISTING



DETAIL 1



DETAIL 2

NO. XXX	ELEVATION	NORTH COORDINATE	EAST COORDINATE
230	1084.41	443516.69	2947741.64
231	1084.41	443516.02	2947741.63
232	1084.73	443515.94	2947745.97
233	1084.78	443512.12	2947745.90
234	1084.27	443512.53	2947746.58
235	1084.26	443516.59	2947746.65
236	1084.20	443516.50	2947751.20
237	1084.11	443521.45	2947754.22
238	1084.59	443522.11	2947754.49
239	1084.73	443522.15	2947752.42
240	1084.51	443526.48	2947752.50
241	1084.51	443526.49	2947751.83
242	1084.49	443529.07	2947755.88
243	1084.26	443521.50	2947751.74
244	1084.33	443521.59	2947746.74
245	1084.58	443526.59	2947746.83
246	1084.58	443526.60	2947746.16
247	1084.80	443522.27	2947746.09
248	1084.47	443522.36	2947741.75
249	1084.47	443521.69	2947741.74
250	1084.88	443509.43	2947735.49

*MATCH EXISTING

NOTE:
1. THE CONTRACTOR SHALL REMOVE & REPLACE ECCENTRIC CONE SECTION AND ORIENT SO THAT THE MANHOLE LID CAN BE OPENED IN THE ROAD.
2. THE CONTRACTOR SHALL ENSURE TOP IS ADA COMPLIANT.

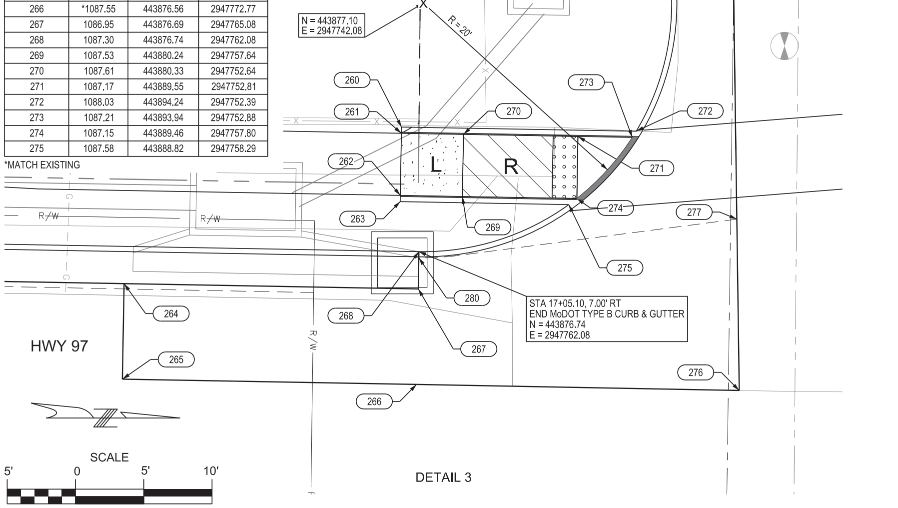
SEE STREET CURB DETAIL AT RAMP ON SHEET 25.

NO. XXX	ELEVATION	NORTH COORDINATE	EAST COORDINATE
260	1087.68	443875.34	2947752.05
261	1087.68	443875.33	2947752.55
262	1087.61	443875.24	2947757.55
263	1087.61	443875.24	2947758.05
264	1086.89	443853.00	2947764.65
265	*1087.39	443852.86	2947772.35
266	*1087.55	443876.56	2947772.77
267	1086.95	443876.69	2947765.08
268	1087.30	443876.74	2947762.08
269	1087.53	443880.24	2947757.64
270	1087.61	443880.33	2947752.64
271	1087.17	443889.55	2947752.81
272	1088.03	443894.24	2947752.39
273	1087.21	443893.94	2947752.88
274	1087.15	443889.46	2947757.80
275	1087.58	443888.82	2947758.29

*MATCH EXISTING

NO. XXX	ELEVATION	NORTH COORDINATE	EAST COORDINATE
276	*1087.70	443902.54	2947773.26
277	*1086.91	443902.35	2947759.46
278	*1087.76	443902.08	2947740.16
279	1088.24	443897.08	2947740.23
280	1086.78	443876.74	2947762.58

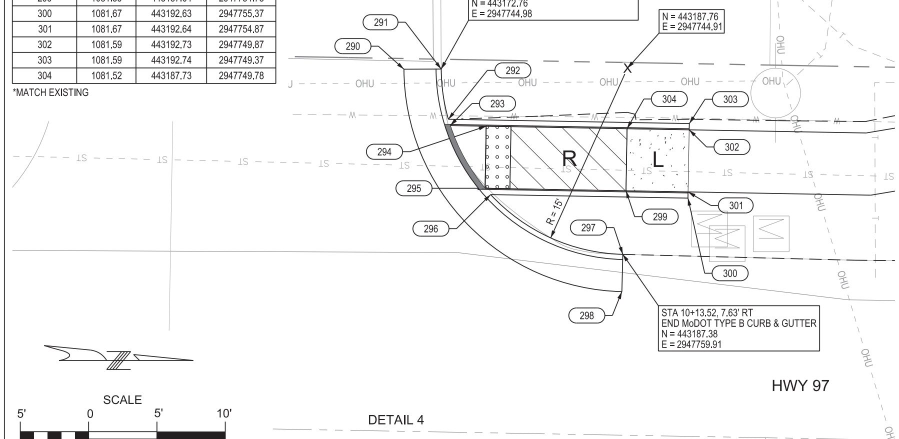
*MATCH EXISTING



DETAIL 3

NO. XXX	ELEVATION	NORTH COORDINATE	EAST COORDINATE
290	*1080.61	443169.76	2947745.00
291	*1081.11	443172.76	2947744.98
292	1081.20	443173.34	2947749.03
293	1080.72	443173.49	2947749.53
294	1080.92	443176.39	2947749.58
295	1080.85	443176.30	2947754.58
296	1081.36	443176.75	2947755.09
297	*1081.63	443187.38	2947759.91
298	*1081.13	443187.31	2947762.90
299	1081.59	443187.64	2947754.78
300	1081.67	443192.63	2947755.37
301	1081.67	443192.64	2947754.87
302	1081.59	443192.73	2947749.87
303	1081.59	443192.74	2947749.37
304	1081.52	443187.73	2947749.78

*MATCH EXISTING



DETAIL 4

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: 1" = 5'
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
020-ID-01_063.dgn

SHEET TITLE:

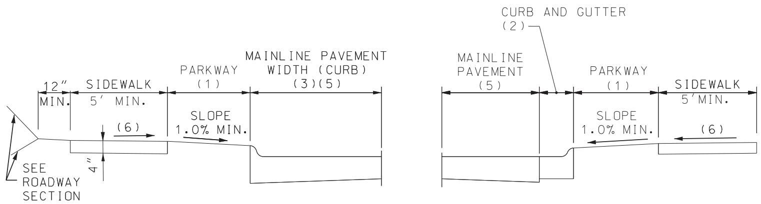
INTERSECTION DETAILS

SHEET NO.

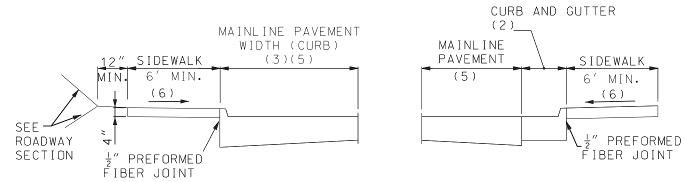
SHEET 20 OF 27

BID DOCUMENTS

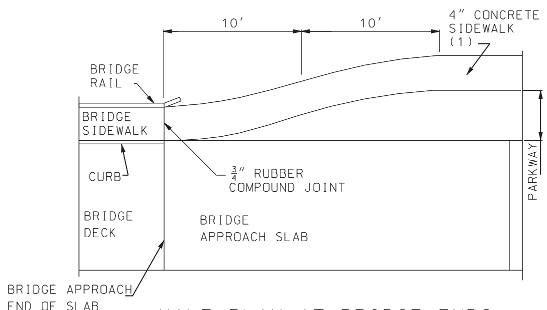
ebaker 8/2/2017 • 3:43:58 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\020-ID-01_063.dgn



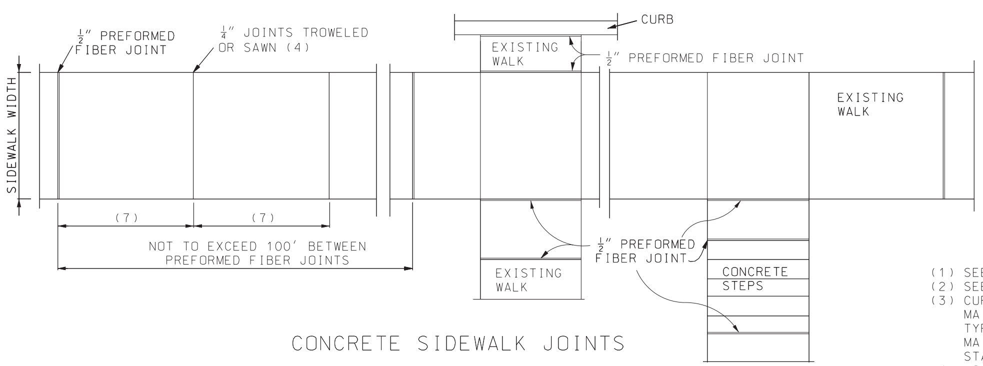
TYPICAL SIDEWALK WITH PARKWAY 2' OR MORE



TYPICAL SIDEWALK WITH NO PARKWAY



HALF PLAN AT BRIDGE ENDS



CONCRETE SIDEWALK JOINTS

GENERAL NOTES:

ALL AREAS OF THE PEDESTRIAN ACCESS ROUTE MUST BE COMPLIANT WITH THE AMERICANS WITH DISABLILITES ACT - GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS OF WAY. EXCEPTIONS MUST BE APPROVED BY THE ENGINEER. ALL OTHER AREAS OF NON-COMPLIANCE SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE.

THE SURFACES OF PEDESTRIAN ACCESS ROUTES AND ELEMENTS, AND SPACES REQUIRED TO CONNECT TO PEDESTRIAN ACCESS ROUTES, SHALL BE FIRM, STABLE, SLIP RESISTANT, AND SHALL NOT POND WATER.

WHERE SIDEWALKS ARE LESS THAN 5 FT., 5 FT. X 5 FT. PASSING SPACES EVERY 200 FT. SHALL BE PROVIDED AND ARE PERMITTED TO OVERLAP PEDESTRIAN ACCESS ROUTES.

THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE THROUGH ENTRANCES, ALLEYS, AND SIDEROAD CONNECTIONS WITH STOP OR YIELD CONTROL SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN PEDESTRIAN STREET CROSSINGS WITHOUT YIELD OR STOP CONTROL, THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE 5.00% MAXIMUM.

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN MIDBLOCK PEDESTRIAN STREET CROSSINGS, THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.

STORMWATER INLETS, SIGNS, POSTS, MANHOLE COVERS, PULL BOXES AND OTHER ACCESS LIDS SHOULD BE AVOIDED WITHIN THE SIDEWALK. IF SUCH A LOCATION IS NECESSARY, THE FEATURE MUST MEET ADA STANDARDS.

THE RUNNING GRADE OF A SIDEWALK SHALL NOT EXCEED 5.0% UNLESS IT IS MATCHING THE GRADE OF THE ADJACENT ROADWAY.

PEDESTRIAN ACCESS ROUTE SHALL CONTINUE ACROSS RESIDENTIAL AND COMMERCIAL ENTRANCES, ALLEYS, AND SIDEROAD CONNECTIONS.

(1) SEE PLANS FOR WIDTH
(2) SEE STANDARD 608.00
(3) CURB TO BE MONOLITHIC WITH PCC MAINLINE PAVEMENT. CURB TO BE TYPE S WITH ASPHALT CONCRETE MAINLINE PAVEMENT. SEE STANDARD PLAN 609.00.
(4) MIN. ½" DEPTH JOINT.
(5) SEE TYPICAL PAVEMENT SECTION
(6) SLOPE 1.0% (2.0% MAX.)
(7) SPACING EQUAL TO WIDTH OF WALK

MoDOT
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

CONCRETE SIDEWALK

DATE EFFECTIVE: 04/01/2015
DATE PREPARED: 8/2/2017
608.10P
SHEET NO. 1 OF 1

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER PE-2010025271
08-03-17
PROFESSIONAL ENGINEER
JUSTIN W. LIKES - ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
021-DE-01_063.dgn

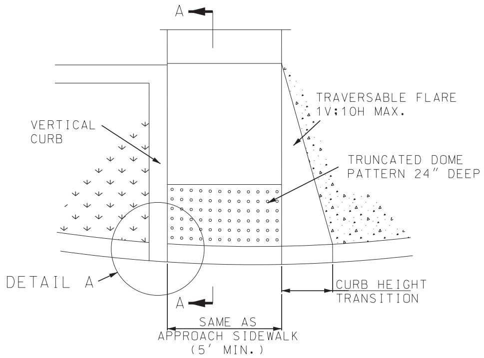
SHEET TITLE:
DETAILS
1 OF 7

SHEET NO.
SHEET 21 OF 27

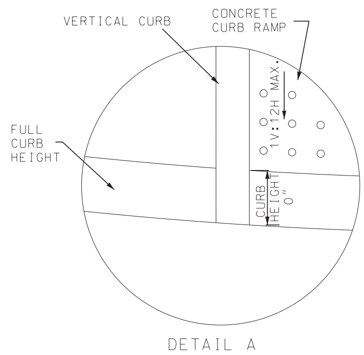
BID DOCUMENTS

ebaker
8/2/2017 • 3:43:59 PM • G:\16-063 City of Lockwood, MO - TAP-990(739) Sidewalk Improvements\Sheets\021-DE-01_063.dgn

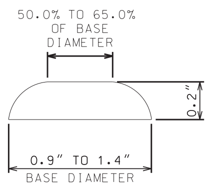
IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



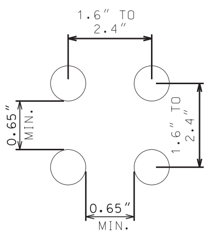
CURB RAMP DETAIL



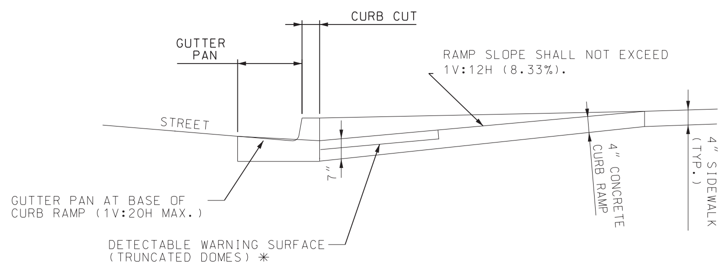
DETAIL A



TRUNCATED DOMES CROSS SECTION



TRUNCATED DOMES SPACING



SECTION A-A

✱ SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. THE CONCRETE BORDER SHALL NOT EXCEED 2 INCH PER SIDE.

GENERAL NOTES:

ALL AREAS OF THE PEDESTRIAN ACCESS ROUTE MUST BE COMPLIANT WITH THE AMERICANS WITH DISABLILITES ACT - GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS OF WAY". EXCEPTIONS MUST BE APPROVED BY THE ENGINEER. ALL OTHER AREAS OF NON-COMPLIANCE SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE.

THE SURFACES OF PEDESTRIAN ACCESS ROUTES AND ELEMENTS, AND SPACES REQUIRED TO CONNECT TO PEDESTRIAN ACCESS ROUTES, SHALL BE FIRM, STABLE, SLIP RESISTANT, AND SHALL NOT POND WATER.

SIDEWALK, RAMP AND LANDING CROSS SLOPES SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE THROUGH ENTRANCES, ALLEYS, AND SIDEROAD CONNECTIONS WITH STOP OR YIELD CONTROL SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN PEDESTRIAN STREET CROSSINGS WITHOUT YIELD OR STOP CONTROL, THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE 5.00% MAXIMUM.

WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN MIDBLOCK PEDESTRIAN STREET CROSSINGS, THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.

30"x 48" CLEAR SPACE SHALL BE PROVIDED CENTERED ON THE PEDESTRIAN PUSH BUTTON.

BEYOND THE BOTTOM GRADE BREAK OF A CURB RAMP, A CLEAR SPACE 4'MINIMUM BY 4'MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE.

SIDE FLARES OF CURB RAMPS, IN THE PATH OF PEDESTRIAN TRAVEL (TRAVERSABLE), SHALL NOT EXCEED A SLOPE OF 1V:10H. SIDE FLARES OUTSIDE THE PEDESTRIAN PATH (NONTRAVERSABLE) MAY BE VERTICAL.

TRANSITION FROM SIDEWALK OR CURB RAMP TO GUTTER TO ROADWAY SHALL BE FLUSH.

DETECTABLE WARNING SURFACES (TRUNCATED DOMES) SHALL BE PREFORMED AND INSTALLED AS PER MANUFACTURER'S RECOMENDATIONS. STAMPED CONCRETE WILL NOT BE ACCEPTED.

THE DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. TRUNCATED DOMES SHALL SPAN THE FULL WIDTH OF THE RAMP OR LANDING 24" DEEP.

DETECTABLE WARNING SURFACES SHALL BE ALIGNED PERPENDICULAR OR RADIAL TO THE BREAK BETWEEN THE RAMP, LANDING OR BLENDED TRANSITION, AND THE STREET.

WHERE THE BOTTOM GRADE BREAK OF A CURB RAMP IS LESS THAN 5' FROM THE BACK OF CURB, DETECTABLE WARNINGS SHALL BE LOCATED ON THE RAMP SURFACE AT THE BACK OF THE CURB. WHERE THE GRADE BREAK IS GREATER THAN 5' FROM THE BACK OF CURB, THE DETECTABLE WARNING SHALL BE LOCATED ON THE LOWER LANDING.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MoDOT
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

CURB RAMPS

DATE EFFECTIVE:	04/01/2015	608.50	SHEET NO. 1 of 4
DATE PREPARED:	8/2/2017		

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES - ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
022_DE-02_063.dgn

SHEET TITLE:

DETAILS
2 OF 7

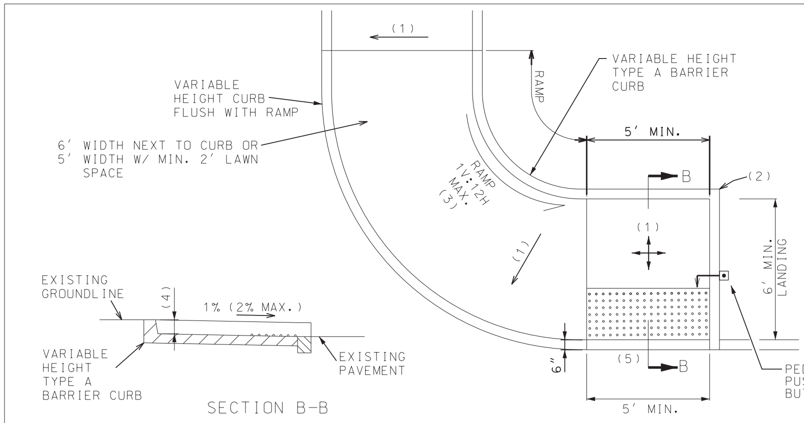
SHEET NO.

SHEET 22 OF 27

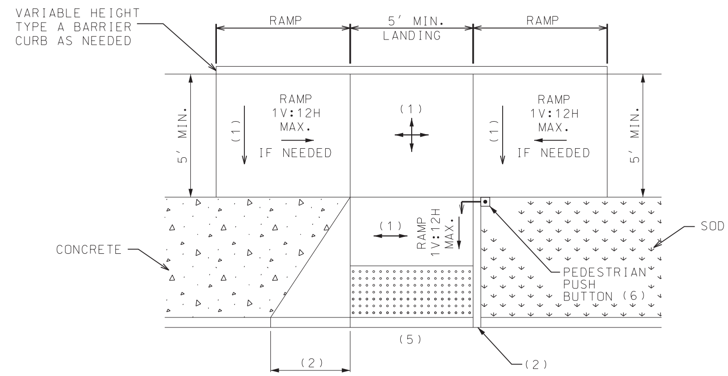
BID DOCUMENTS

ebaker
8/2/2017 • 3:44:00 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\022_DE-02_063.dgn

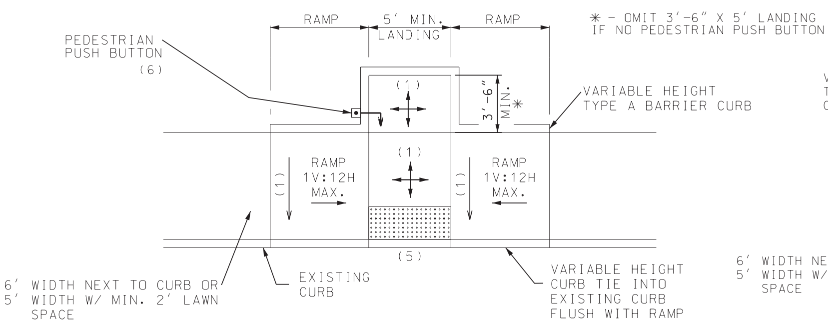
IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



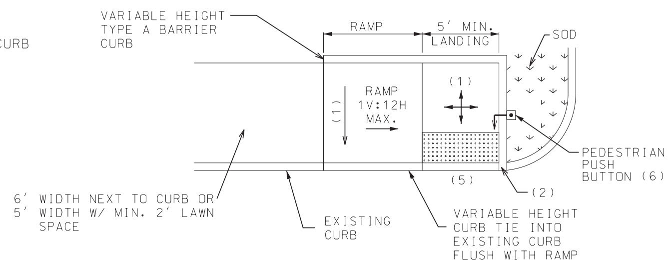
TYPE 1 PARALLEL



COMPOUND PERPENDICULAR



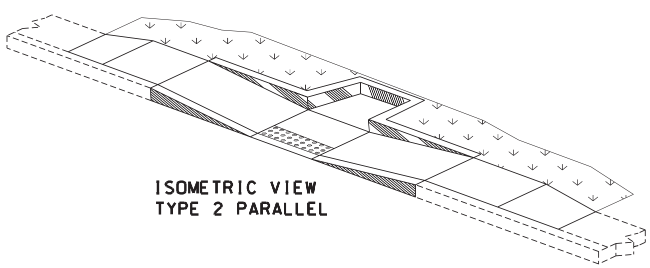
TYPE 2 PARALLEL



TYPE 3 PARALLEL

GENERAL NOTES:

(1) 1.0% (2.0% MAX.) OR ROAD GRADE EXCEPTION
(2) VARIABLE HEIGHT VERTICAL CURB . IF TRAVERSABLE USE A MAX. 1V:10H FLARE MEASURED PARALLEL TO THE CURB LINE.
(3) ENSURE THAT THE INSIDE EDGE OF CURVED RAMPS MAINTAIN AN 8.3% (1V:12H) MAXIMUM SLOPE.
(4) HEIGHT VARIES TO MEET EXISTING GROUND.
(5) THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMP RUNS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 5% MAXIMUM.
(6) THE FACE OF PEDESTRIAN PUSH BUTTONS SHALL BE 0" OFFSET FOR FRONT APPROACH AND 10" MAX. FOR SIDE APPROACH TO THE CURB FACE.



ISOMETRIC VIEW
TYPE 2 PARALLEL

MoDOT
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

CURB RAMPS

DATE EFFECTIVE: 04/01/2015
DATE PREPARED: 8/2/2017

608.50

SHEET NO. 2 of 4

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER PE-2010025271
08-03-17
PROFESSIONAL ENGINEER
JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
023_DE-03_063.dgn

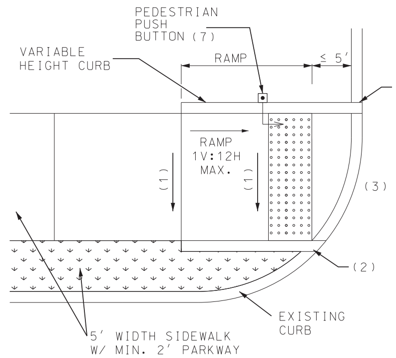
SHEET TITLE:
DETAILS
3 OF 7

SHEET NO.
SHEET 23 OF 27

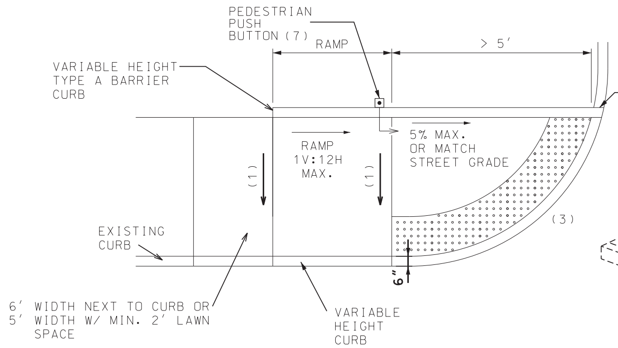
IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

ebaker 8/2/2017 • 3:44:01 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\023_DE-03_063.dgn

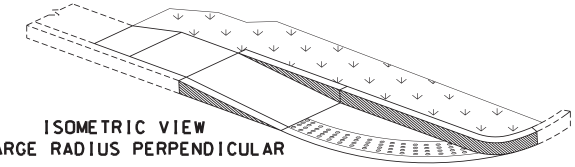
BID DOCUMENTS



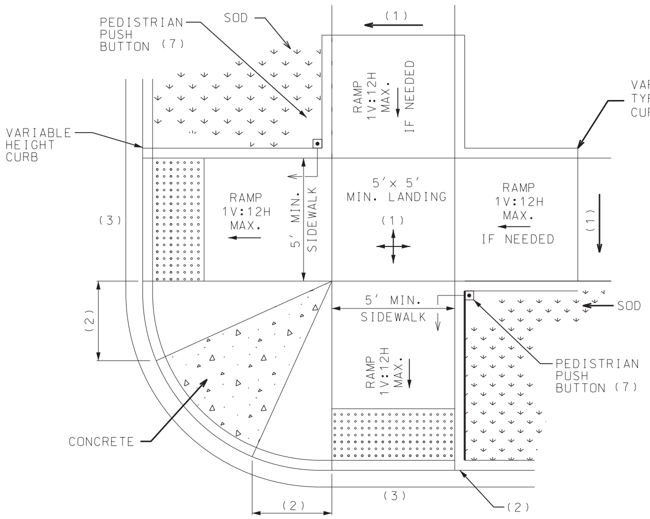
SMALL RADIUS PERPENDICULAR



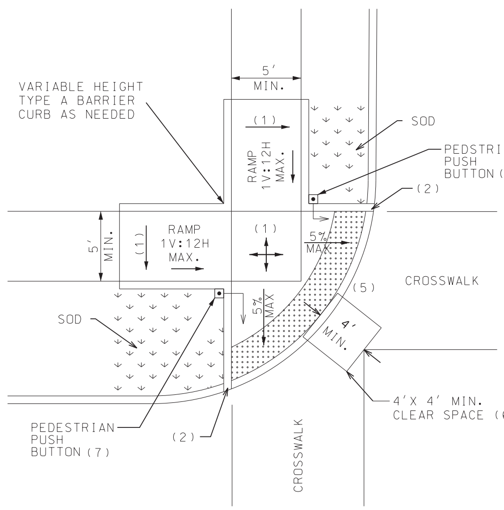
LARGE RADIUS PERPENDICULAR



ISOMETRIC VIEW
LARGE RADIUS PERPENDICULAR



DUAL PERPENDICULAR



BLENDED TRANSITION

GENERAL NOTES:

(1) 1.0% MINIMUM, 2.0% MAXIMUM.
(2) VERTICAL OR 1' FLARE. IF TRAVERSABLE USE A MAX. 1V:10H FLARE MEASURED PARALLEL TO THE CURB LINE.
(3) ENSURE THAT THE INSIDE EDGE OF CURVED RAMPS MAINTAIN AN 8.3% (1V:12H) MAXIMUM SLOPE.
(4) HEIGHT VARIES TO MEET EXISTING GROUND.
(5) THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMP RUNS.BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 5% MAXIMUM.
(6) BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE 4'X 4' MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE.
(7) THE FACE OF PEDESTRIAN PUSH BUTTONS SHALL BE 0" OFFSET FOR FRONT APPROACH AND 10" MAX. FOR SIDE APPROACH TO THE CURB FACE.

MoDOT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

CURB RAMPS

DATE EFFECTIVE: 04/01/2015
DATE PREPARED: 8/2/2017

608.50

SHEET NO. 3 of 4

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TREKK
DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI
JUSTIN W. LIKES
NUMBER
PE-2010025271
08-03-17
PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD,
DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
024_DE-04_063.dgn

SHEET TITLE:

DETAILS
4 OF 7

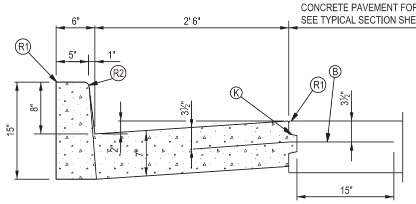
SHEET NO.

SHEET 24 OF 27

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

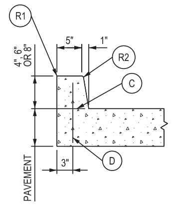
ebaker
8/2/2017 • 3:44:02 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\024_DE-04_063.dgn

BID DOCUMENTS



MoDOT TYPE B (BARRIER) CURB

NTS



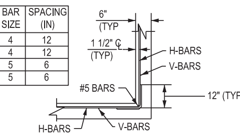
INTEGRAL CURB

NTS

LEGEND

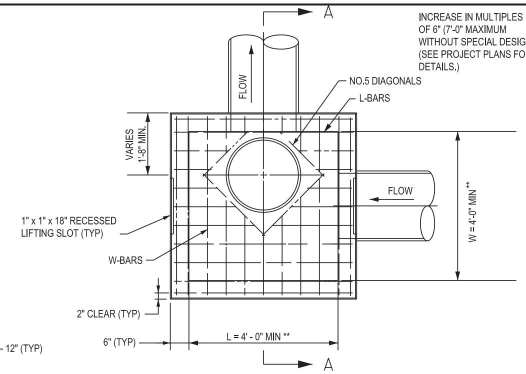
- (B) TIE BARS - 30" X #5 Ó AT 30" CTRS.
- (C) PERMISSIBLE CONSTRUCTION JOINT. IF CONSTRUCTED IN THIS MANNER TIE BARS MUST BE USED.
- (D) #4 O TIE BAR AT 24" CENTERS LENGTH OF THE TIE BARS EQUALS THICKNESS OF PAVEMENT PLUS HEIGHT OF CURB, LESS 3 INCHES.
- (K) TONGUE & GROOVE JOINT WITH TIE BAR - SEE DETAIL.
- (R1) ROUND TO ½" RADIUS. (EXCEPT FOR SAWED JOINTS)
- (R2) ROUND TO ¾" RADIUS.

BARS	BAR SIZE	SPACING (IN)
H	4	12
V	4	12
L	5	6
W	5	6



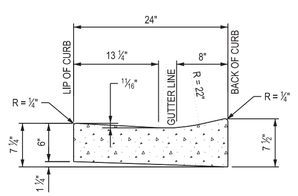
WALL CORNER DETAIL

NTS



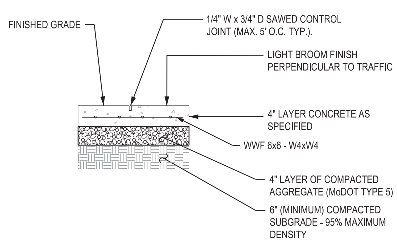
PLAN

NTS



STREET CURB DETAIL AT RAMP

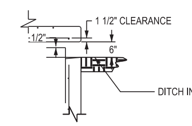
NTS



NOTE:
1. SEE DETAIL SHEET 28 FOR EXPANSION JOINT.
2. EXPANSION JOINTS & #4 EPOXY COATED TIE BARS @ 12" O.C. SHALL BE USED AT CONSTRUCTION JOINTS.

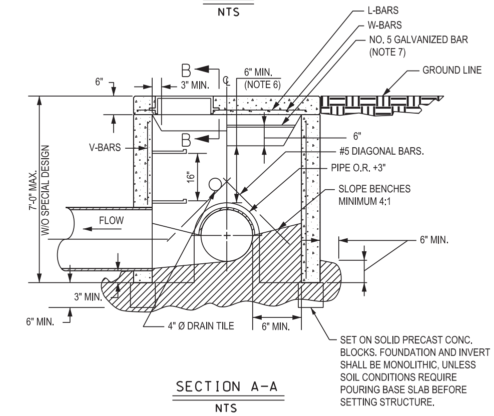
4" CONCRETE SIDEWALK SURFACE

NTS



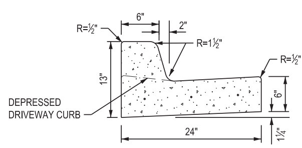
SECTION B-B

NTS



SECTION A-A

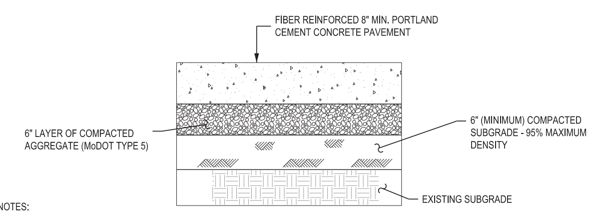
NTS



CURB & GUTTER NOTES:
1. 1/2" EXPANSION JOINTS WITH 2' DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWELS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 1" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. FIX DOWEL WITH BAR SUPPORTS.
4. CONCRETE SHALL CONFORM TO MCIB MIX NO. WA 610-1-4 UNLESS OTHERWISE SPECIFIED IN PLANS AND PROJECT MANUAL.
5. j - USE 5/8" Ø X2' SMOOTH DOWELS AT LOCATIONS SHOWN ON EACH TYPICAL SECTION.
6. DEPTH OF CURB SHALL BE A MINIMUM OF 8" THRU THE HANDICAP ACCESS RAMP.

TYPE CG-1 (WET)
(STRAIGHT BACK)

NTS



NOTES:
1. PRIOR TO PLACEMENT OF BASE COURSE MATERIAL THE PREVIOUSLY PREPARED SUBGRADE SURFACE SHALL BE CLEARED OF ALL FOREIGN SUBSTANCES AND RESTORED IN SHAPE, TOLERANCE AND DENSITY AS SPECIFIED IN KCMO APWA SECTION 2201 SUBGRADE PREPARATION. THE TOP 6" OF SUBGRADE SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY FOR THE MATERIAL USED AS DETERMINED BY ASTM D698 AND WITHIN A TOLERANCE OF PLUS 2% AND MINUS 3% OF OPTIMUM MOISTURE CONTENT.
2. THE 6" LAYER OF COMPACTED AGGREGATE SHALL COMPLY MoDOT TYPE 5.
3. ALL PORTLAND CEMENT CONCRETE PAVEMENT, REINFORCEMENT, JOINTS, CURING, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH KCMO APWA SECTION 2208 PORTLAND CEMENT CONCRETE PAVEMENT.

8" CONCRETE PAVEMENT

NTS

NOTES:
1. ALL WORK SHALL CONFORM TO APWA SECTION 2600.
2. POUR BASE AND INVERT MONOLITHIC FOR PRECAST INLETS.
3. LOCATE RING AND COVER OVER OUTLET.
4. ALL WORK AND MATERIALS SHALL CONFORM TO APWA SECTION 2600.
5. USE ⅜" CHAMFER STRIP ON ALL EXPOSED CONCRETE CORNERS.
6. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4'.
7. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
8. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
9. LIMIT OPENING HEIGHT TO 6" WITH NO. 5 GALVANIZED BARS EXTENDING TO CORNER BARS.
10. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIZE OF OPENINGS.
11. O.R. = OUTSIDE PIPE RADIUS
12. RING AND COVER TO BE NEENAH R-1537, CLAY & BAILEY #2020, DEETER #2016, OR APPROVED EQUAL.
13. 4" Ø FIELD TILE SHALL BE LOCATED AT ENTERING PIPES WHEN USED ON SUMP POINTS. THESE TILES OR OPENINGS SHALL BE CAPPED WITH 1/4" GALVANIZED WIRE MESH ON THE OUTSIDE OF THE INLET AND CLEAR THE INVERT AND BASE CONCRETE.

FIELD INLET DETAIL

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI JUSTIN W. LIKES NUMBER PE-2010025271 08-03-17 PROFESSIONAL ENGINEER

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
025-DE-05_063.dgn

SHEET TITLE:
DETAILS
5 OF 7

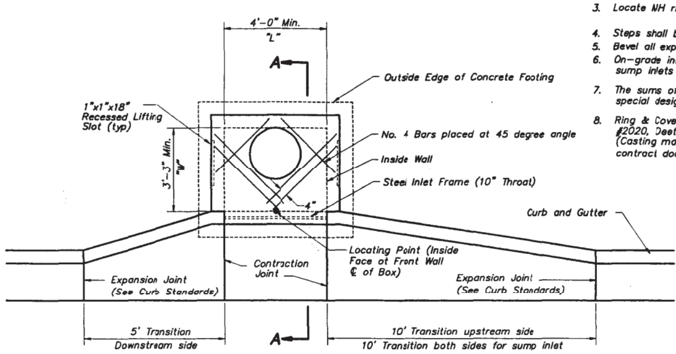
SHEET NO.
SHEET 25 OF 27

BID DOCUMENTS

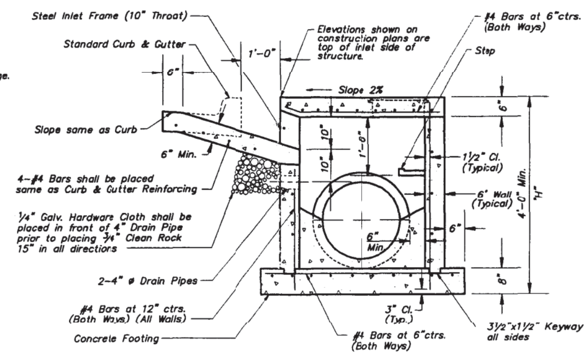
ebaker 8/2/2017 • 3:44:02 PM • G:\16-063 City of Lockwood, MO - TAP -9900(739) Sidewalk Improvements\Sheets\025-DE-05_063.dgn

GENERAL NOTES:

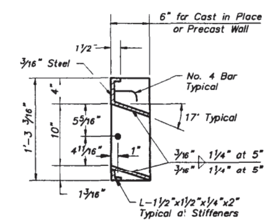
1. The first dimension listed in the Construction Notes is the "L" dimension. The second dimension is the "W" dimension. ℄'s listed on the project plans are listed at the inside face of the wall.
2. Floor of inlet shall be shaped with invert to provide smooth flow.
3. Locate MH ring and cover over outlet.
4. Steps shall be spaced at 1'-4" O.C. vertically.
5. Bevel all exposed edges with 3/4" chamfer or 1/2" tooled edge.
6. On-grade inlets shall conform to the street grade and sump inlets shall be level.
7. The sums of "L" & "W" shall not exceed 14' without special design. (See project plans for details.)
8. Ring & Cover to be Neenah R-1537, Clay & Bailey #2020, Deeter #2016, or approved equal. (Casting may vary by municipality, refer to plans & contract documents.)



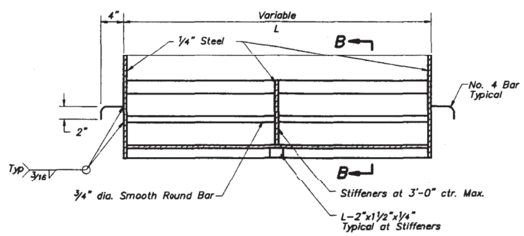
PLAN



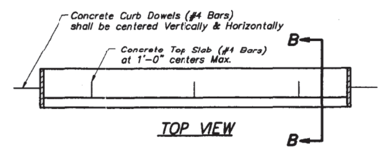
SECTION A–A



SECTION B–B



FRONT VIEW



TOP VIEW

Notes:

1. All welds shall be preformed in accordance with appropriate AWS Specifications & Procedures.
2. All welds on exposed surfaces shall be dressed so as to provide a pleasing finished appearance.
3. The entire frame shall be painted a single coat of CHEM-PRIME #37-77 primer (Red) or equal.

AMERICAN PUBLIC WORKS ASSOCIATION
APWA
KANSAS CITY METROPOLITAN CHAPTER

CURB INLET – TYPE 2 DETAILS

STANDARD DRAWING NUMBER CI – 2

ADOPTED: APRIL 17, 1996

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER

STATE OF MISSOURI – JUSTIN W. LIKES – NUMBER PE-2010025271 – PROFESSIONAL ENGINEER – 08-03-17

JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
026-DE-06_063.dgn

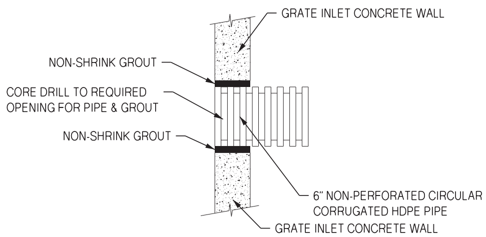
SHEET TITLE:
DETAILS 6 OF 7

SHEET NO.
SHEET 26 OF 27

BID DOCUMENTS

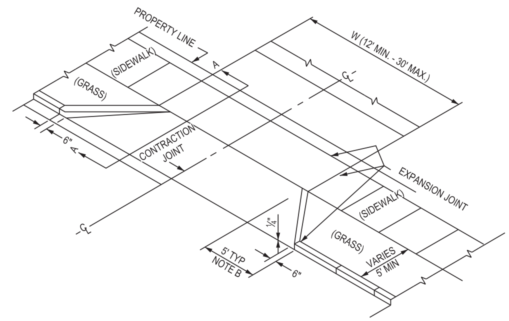
IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

ebaker 8/2/2017 • 3:44:05 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\026-DE-06_063.dgn

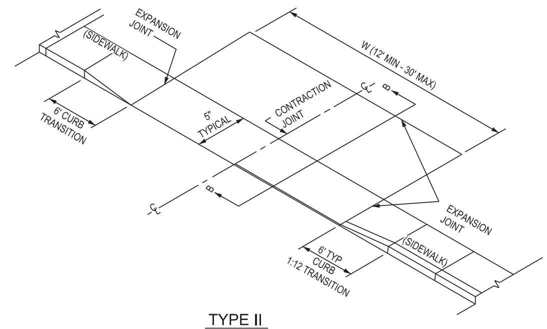


EXISTING STORM SEWER CONNECTION DETAIL

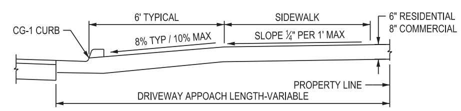
NTS



TYPE I



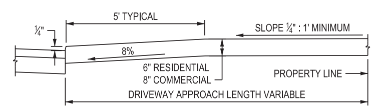
TYPE II



SECTION A-A (CG-1 CURB SHOWN)

A. TYPE I LAYOUT MAY BE ADAPTED TO CG-2 CURB.

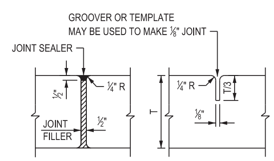
B. WHERE DRIVE WIDTH IS 14 FEET OR LESS FLARES SHALL BE 7.5 FEET WIDE AT CURB AND SHALL EXTEND AT A 45° ANGLE THROUGH THE SIDEWALK.



SECTION B-B (CS OR C-1 CURB)

NOTES:

1. ALL DRIVEWAYS SHALL HAVE 6" OF MoDOT TYPE 5 AGGREGATE COMPACTED TO 95% OF STANDARD MAXIMUM DENSITY AS BASE BELOW THE PAVEMENT. THE TOP 6" OF THE EXISTING SUBGRADE BELOW THE AGGREGATE BASE SHALL BE COMPACTED TO 95% OF STANDARD MAXIMUM DENSITY.
2. CONCRETE SHALL CONFORM TO MCIB MIX NO WA610-1-4.
3. EXPANSION JOINT FILLER AND JOINT SEALING COMPOUND SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2209.2.
4. CURING MEMBRANES SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2208.2F.
5. CURB TRANSITIONS ON DRIVEWAY FLARES ARE CONSIDERED PART OF DRIVEWAY.
6. 6" x 6" - W2.9 x W2.9 REINFORCING SHALL BE PLACED IN CENTER OF SLAB THICKNESS.
7. CONTRACTION JOINTS SHALL BE SPACED AT 12' MAX., BOTH DIRECTIONS.
8. TWO ⅝"Ø x 2' SMOOTH DOWELS (ONE FOR C-1 CURB). SEE CURB STANDARDS FOR PLACEMENT.
9. FORM ½" LIP AT PAVEMENT LINE ON DRIVES IN C-1 & CS CURBS.
10. IF PARKWAY IS <1.5', FILL WITH CONCRETE AS PART OF THE SIDEWALK.



EXPANSION JOINT   CONTRACTION JOINT

JOINT DETAILS

DRIVEWAY DETAIL

NTS

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

TREKK DESIGN GROUP, LLC
1411 E 104th St
Kansas City, MO 64131
Tel (816) 874-4655
Fax (816) 874-4675
MO St. Cert. of Authority: 2002010300

PROFESSIONAL ENGINEER
STATE OF MISSOURI JUSTIN W. LIKES NUMBER PE-2010025271 PROFESSIONAL ENGINEER
08-03-17
JUSTIN W. LIKES – ENGINEER
MISSOURI P.E. NO. 2010025271

LOCKWOOD SIDEWALK PROJECT
CITY OF LOCKWOOD, DADE COUNTY, MISSOURI
TAP-9900 (739)

REVISIONS: MARK	DATE	DESCRIPTION

PROJ NO: 16-063
SCALE: NTS
DATE: 8/2/2017
DRAWN BY: ELB
CHECKED BY: CAF
027-DE-07_063.dgn

SHEET TITLE:
DETAILS
7 OF 7

SHEET NO.
SHEET 27 OF 27

BID DOCUMENTS

ebaker 8/2/2017 • 3:46:33 PM • G:\16-063 City of Lockwood, MO - TAP-9900(739) Sidewalk Improvements\Sheets\027-DE-07_063.dgn

FED ROAD DIST. NO.	STATE		FISC. YEAR		
	MO.		22		
DIV NO	COUNTY			ROUTE	
7	DADE				

INDEX OF SHEETS

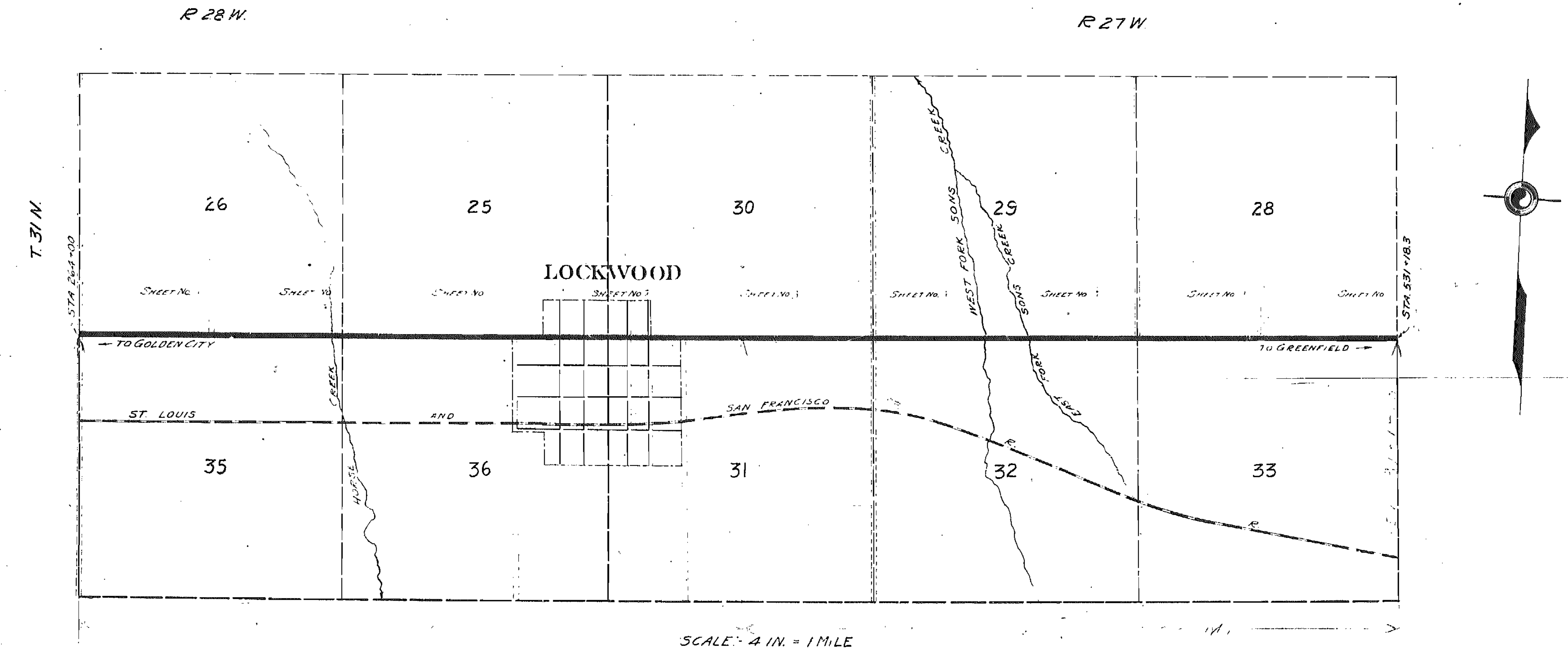
SHEET NO	
	TITLE PAGE
"	TYPICAL CROSS-SECTION OF IMPROVEMENT
"	PLAN AND PROFILE STA. 264+00 TO STA. 290+00
"	" " " 290+00 " " 320+00
"	" " " 320+00 " " 350+00
"	" " " 350+00 " " 380+00
"	" " " 380+00 " " 410+00
"	" " " 410+00 " " 440+00
"	" " " 440+00 " " 470+00
"	" " " 470+00 " " 500+00
"	" " " 500+00 " " 531+18.3
	CROSS SECTIONS

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

DADE COUNTY

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



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE
COUNTY LINE
CITY, VILLAGE OR BOROUGH
TOWNSHIP LINE
SECTION LINE
GRANT LINE
FENCE LINE
GUARD RAIL
UNFENCED PROPERTY
RIGHT OF WAY LINE
TRAVELED WAY
RAILROADS
RETAINING WALL
BASE OR SURVEY LINE
LEVEE
CULVERTS
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE OR TELEGRAPH POLE
MARSH
HEDGE
GROUND ELEVATION — DATUM LINE
GRADE ELEVATION — GRADE LINE
SURFACE LINE
GRADE LINE

EXCEPTIONS

EQUATIONS
NONE

LENGTH OF PROJECT.

APPARENT LENGTH	26718.3 FT.	= 5.060	MILES
GROSS LENGTH	26718.3	" " 5.060	
NET LENGTH	26718.3	" " 5.060	

SUBMITTED [redacted]

CHIEF ENGINEER MO. STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL [redacted]

DISTRICT ENGINEER - DISTRICT NO. 5

RECOMMENDED FOR APPROVAL [redacted]

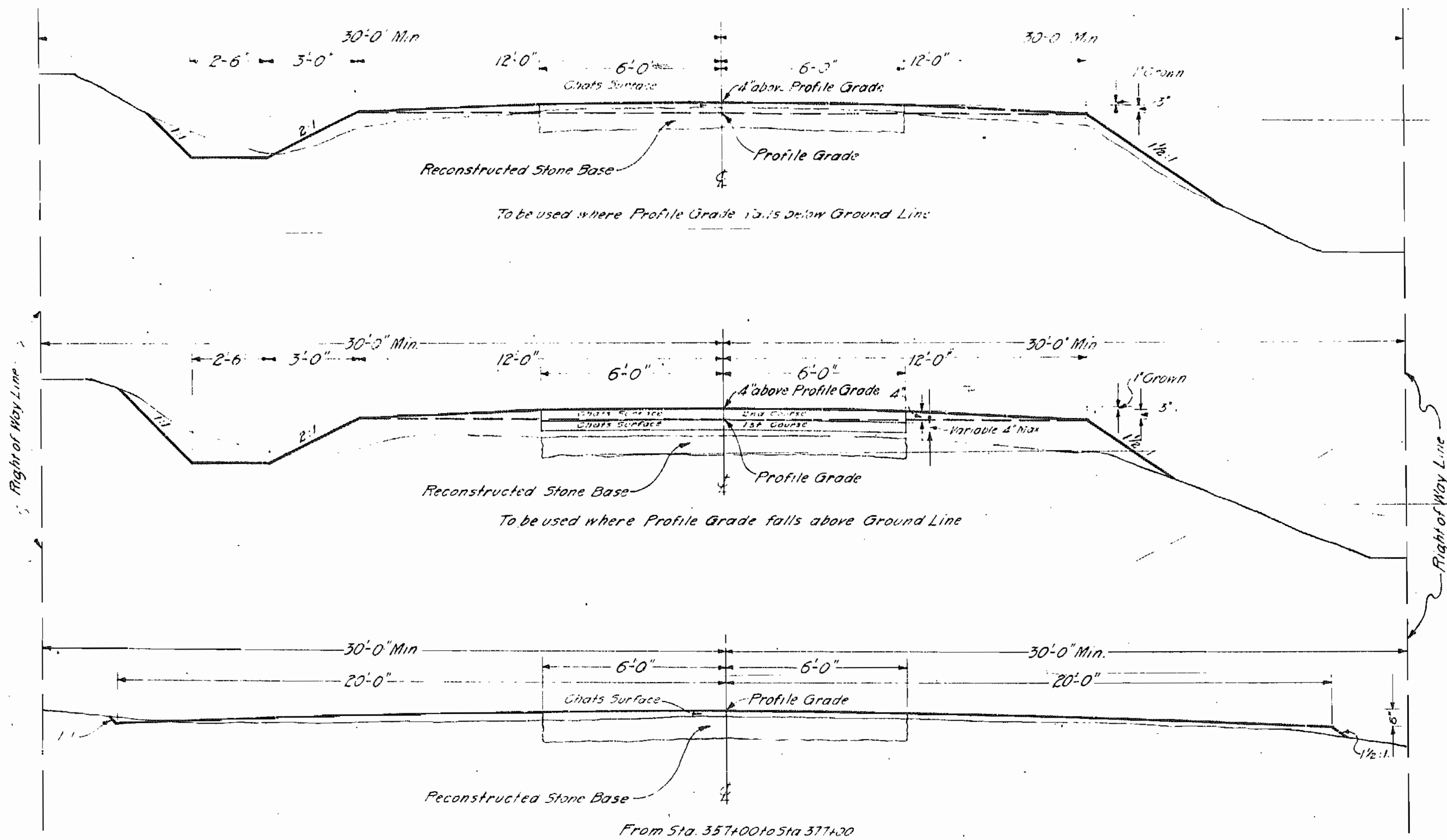
CHIEF ENGINEER BUREAU PUBLIC ROADS

APPROVED [redacted]

DIRECTOR BUREAU OF PUBLIC ROADS

FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.
5	MO.	106	1923	2
DIV. NO.	COUNTY			ROUTE
7	DADE			36

TYPICAL CROSS SECTIONS OF IMPROVEMENT.



MISSOURI STATE HIGHWAY COMMISSION
ESTIMATE SHEET

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.
5	MO.	1924 8A
DIV. NO.	COUNTY	
7	DADE	36

Description of paving 12' Chat Surface

County of DADE

Length 2.528 miles

Prepared by Geo. E. [illegible] Date Dec. 21 [illegible] Name of road Golden City - Greenfield

Sta.	Excavation Earth	Rock	Borrow	O'Haul
264				
269	292			
274	212			
276+73	126			
282	247			
286	52			
288	83			
294	495			
295+70	136			
300	229			
305	185			
310	152	24		
313+97	285			
314+32	Bridge			
319	136		401	
327	387			100
332	227			
337	235			
342	136			
344	28			
349	63			
354	117			
359	81			
364	52			
369	50			
374	57			
379	61			
382	100			
387	164			
390+67	164			
393+60	122			
397+50	113			
Total	4787	24	401	100

Cross Road Drains

Sta.	15"	18"	24"
[illegible]		52'*	
Total		52'	

*Double 26'-18"

Side Road Drains

Sta.	15"	18"	24"	Side
377+53	30'			Lt
384+30			24	Rt
Total	30'		24'	

Farm Entrance Culverts.

Sta.	15"	18"	Side
277+12	18'		Lt.
277+30	18		Rt.
286+10	18		Lt.
286+84	18		Rt.
297+94	18		Lt.
305+80	18		Rt.
379+80	18		Lt.
384+60	18		Lt.
Total	144		

Reconstructed Base Course

397+50
264+00

$133+50 \times \frac{12}{9} = 17800$ Sq. yds.

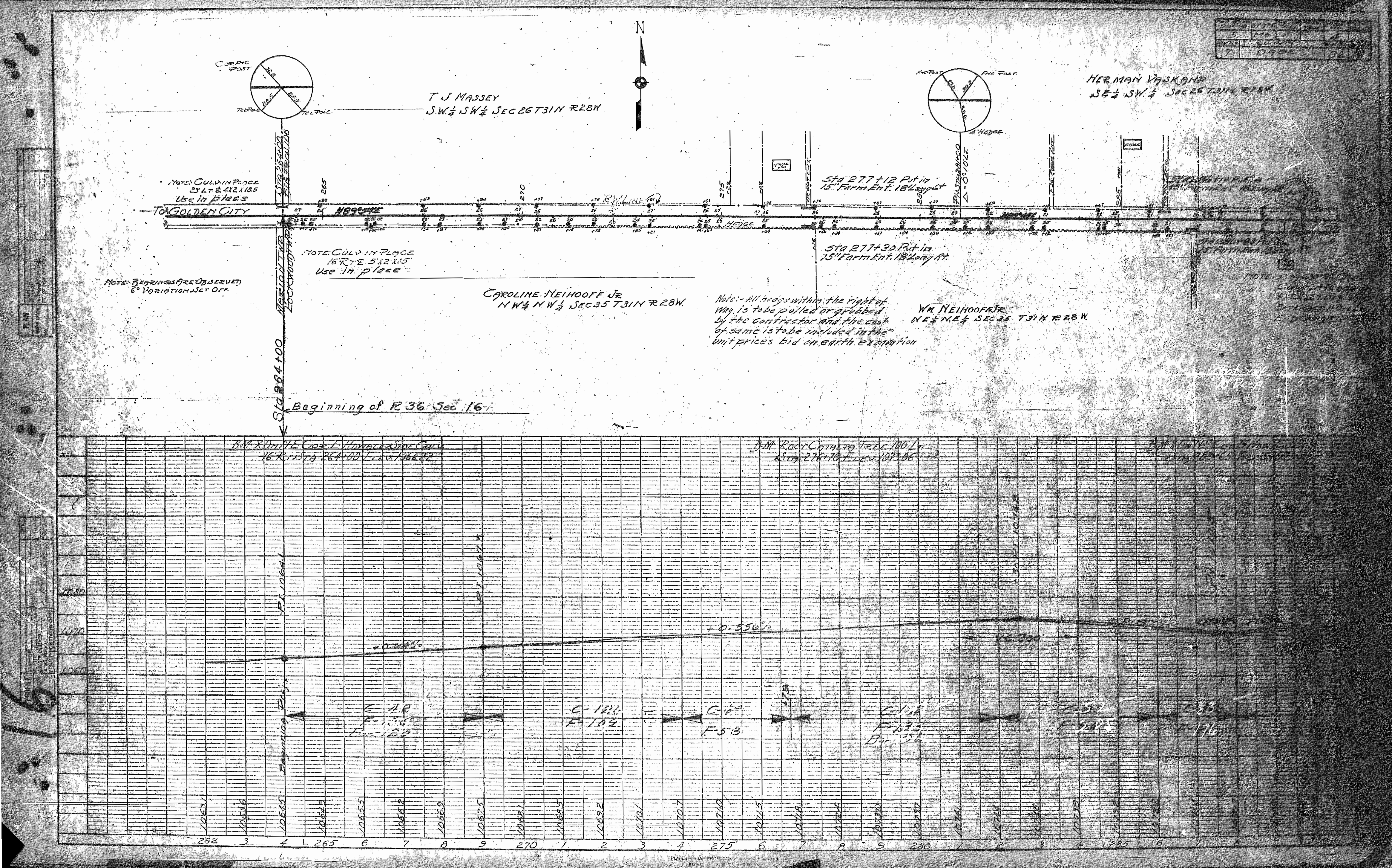
Chat Surface

Length	Width	Thickness	Cu. yds.
2,577	12	10"	954.4
10,773	12	5"	1995.0
Extra Finishing			19.5
Total			2968.9

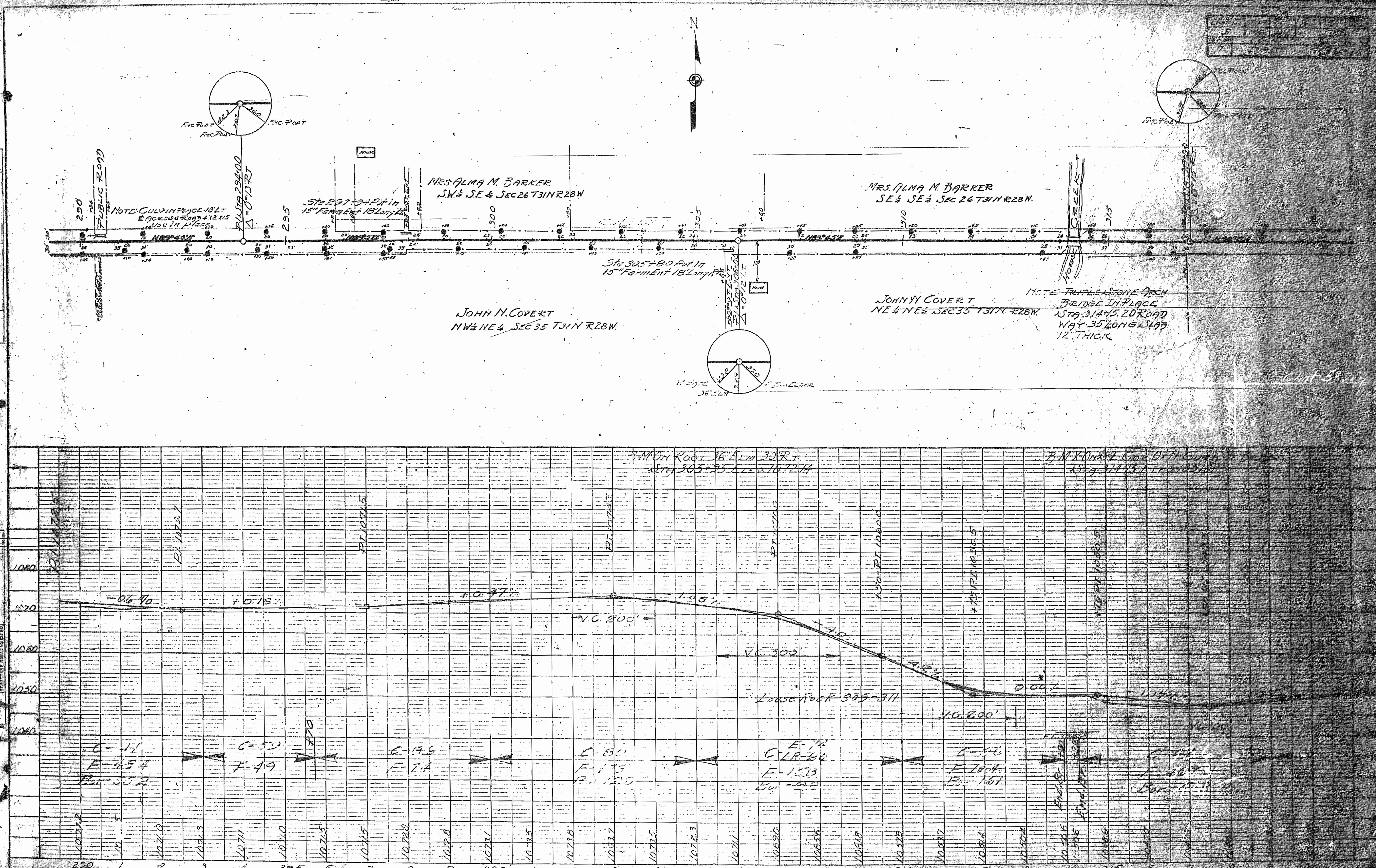
Summary

Item	Description	Unit	Quantity
7A	Earth Roadway Exc.	Cu. yds.	4787
7B	Loose Rock Exc.	"	24
7D	Borrow	"	401
7E	O'Haul	"	100
10A	Recon. Base Course	Sq. Yds.	17800
13A	Chat Surface	Cu. Yds.	2968.9
50B	15" Corr. I. Pipe	Lin. Ft.	30
50B	18" Corr. I. Pipe	"	52
50B	24" Corr. I. Pipe	"	24
50B	15" Corr. I. Pipe Farm Ent.	"	144

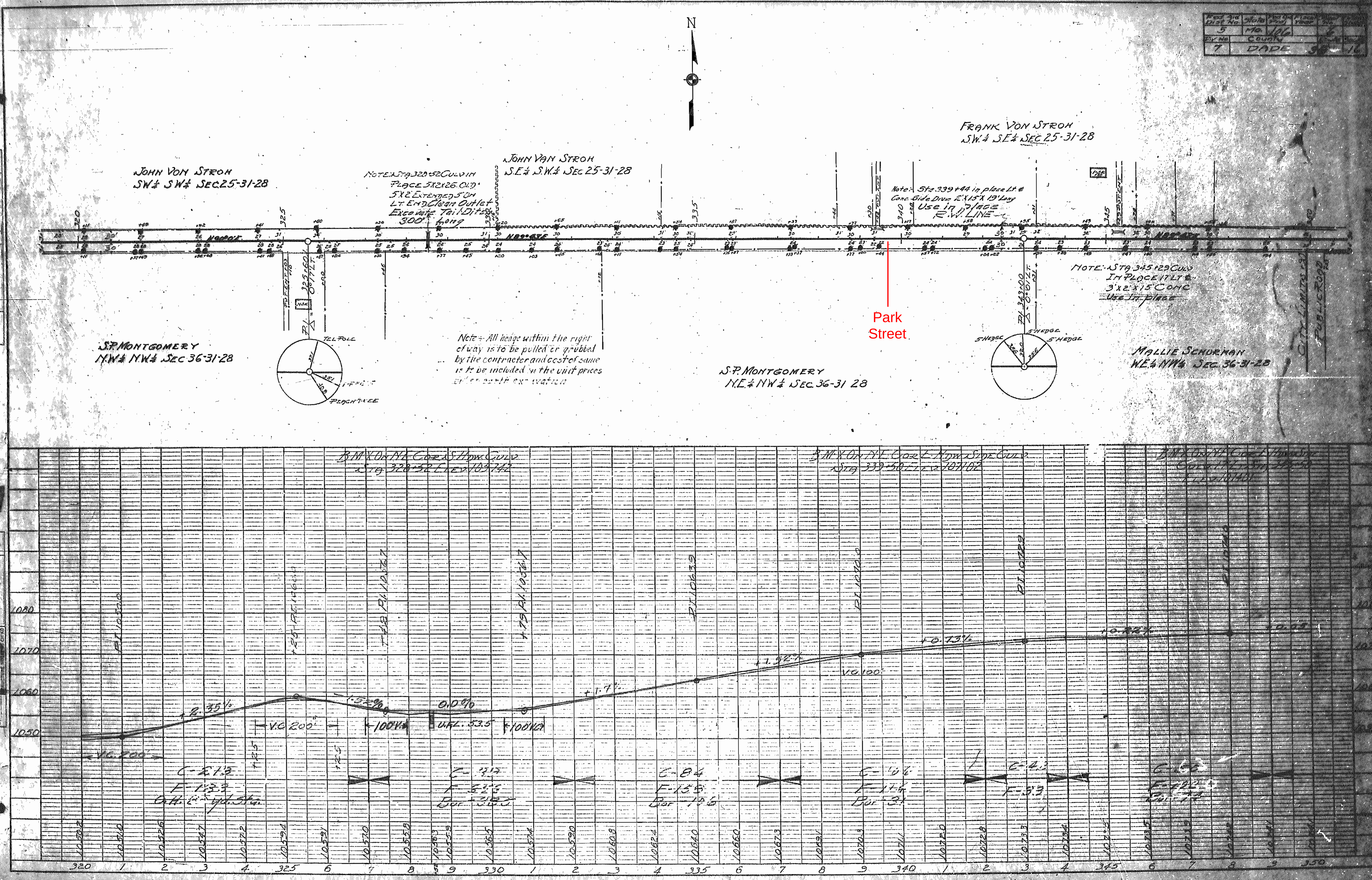
[illegible]



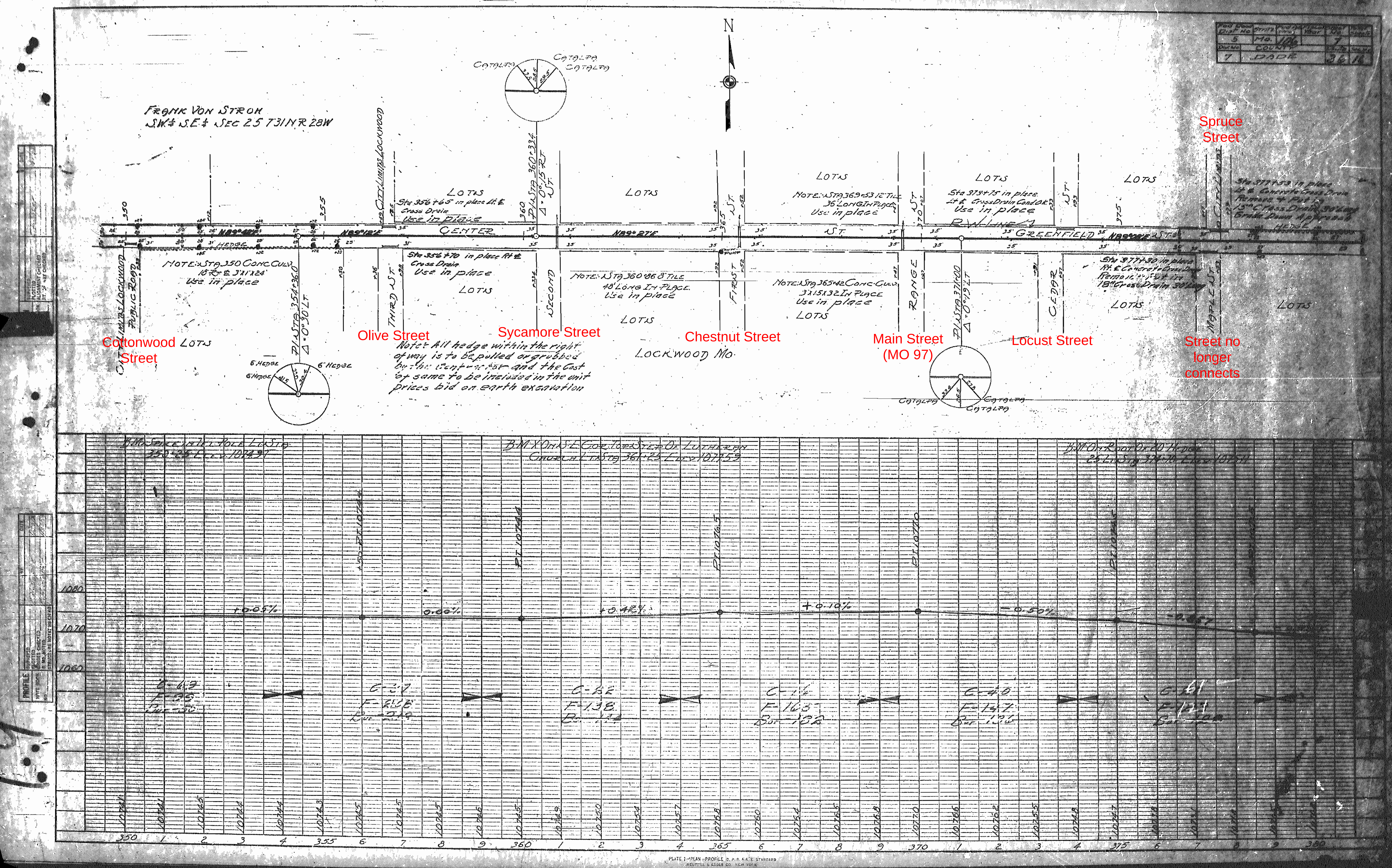
5 MO.
7 DADE 36 16
N
T J MASSEY
S.W.¼ S.W.¼ SEC 26 T31N R28W
HERMAN VASKAMP
SE¼ SW.¼ SEC 26 T31N R28W
Note: Culv. in Place 23 Lt ℄ 4x2x18.5 Use in place
To GOLDEN CITY
N89°54'E
Sta 277+12 Put in 15" Farm Ent. 18' Long Lt
Sta 286+10 Put in 15" Farm Ent. 18' Long Lt
Note: Culv. in Place 16 Rt ℄ 5x2x15 Use in place
Sta 277+30 Put in 15" Farm Ent. 18' Long Rt.
Note: Bearings Are Observed 6° Variation Set Off.
CAROLINE NEIHOFF JR
N.W¼ N.W¼ SEC 35 T31N R28W.
Note:- All hedge within the right of way is to be pulled or grubbed by the contractor and the cost of same is to be included in the unit prices bid on earth excavation
WM NEIHOFF JR
N.E¼ N.E¼ SEC 35 T31N R28W.
MARION TWP. LOCKWOOD TWP.
Sta 264+00
Beginning of R 36 Sec 16
B.M. X On N.E. Cor. E. Hdwall Slab Culv. 16 Rt. Sta 264+00 Elev. 1066.22
B.M. Root Catalpa Tree 100 Lt Sta 276+70 Elev 1073.06
+0.64%
+0.556%
V.C. 300
1080
1070
1060
Beginning Proj.
262 3 4 265 6 7 8 9 270 1 2 3 4 275 6 7 8 9 280 1 2 3 4 285 6 7 8 9 290

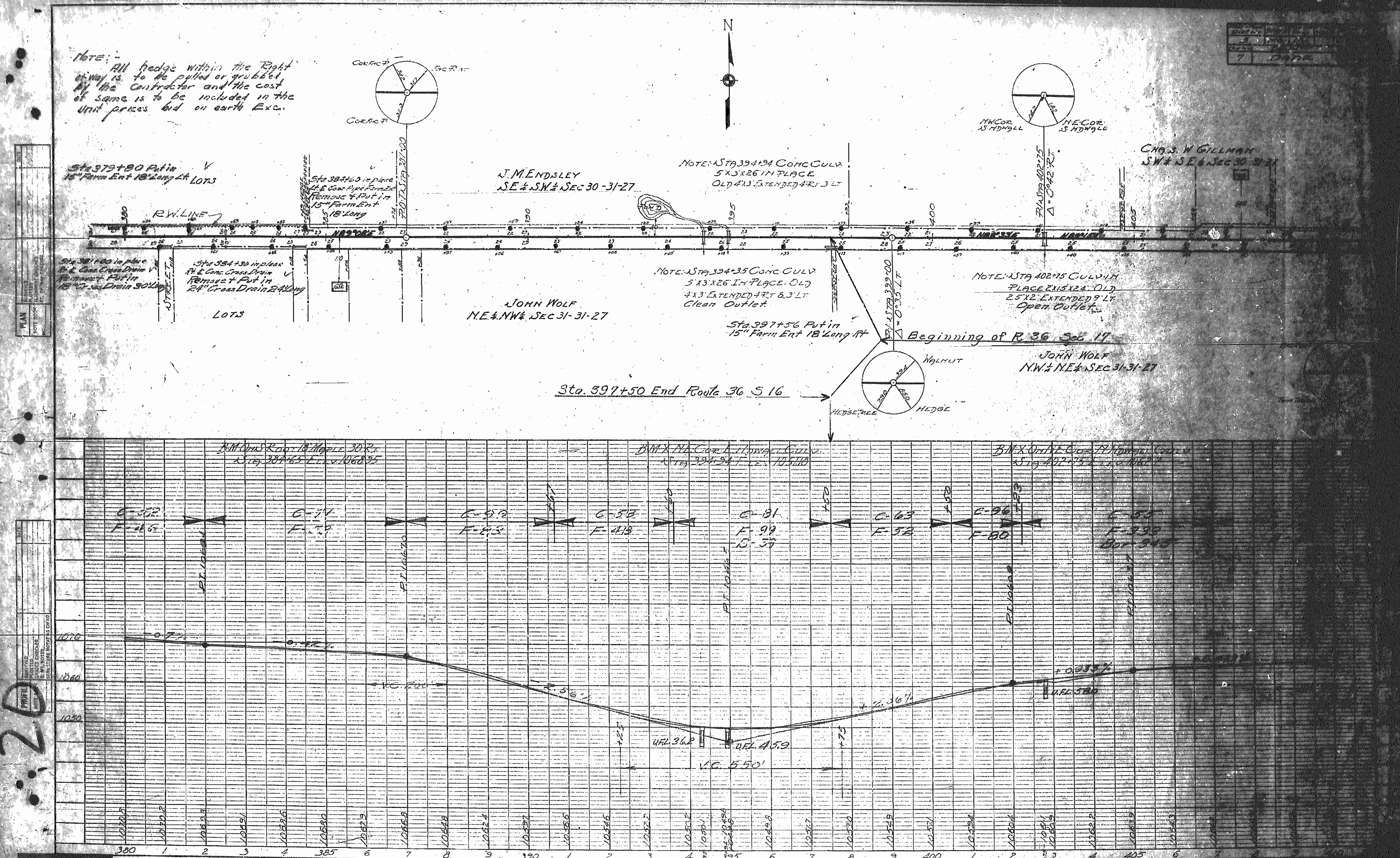


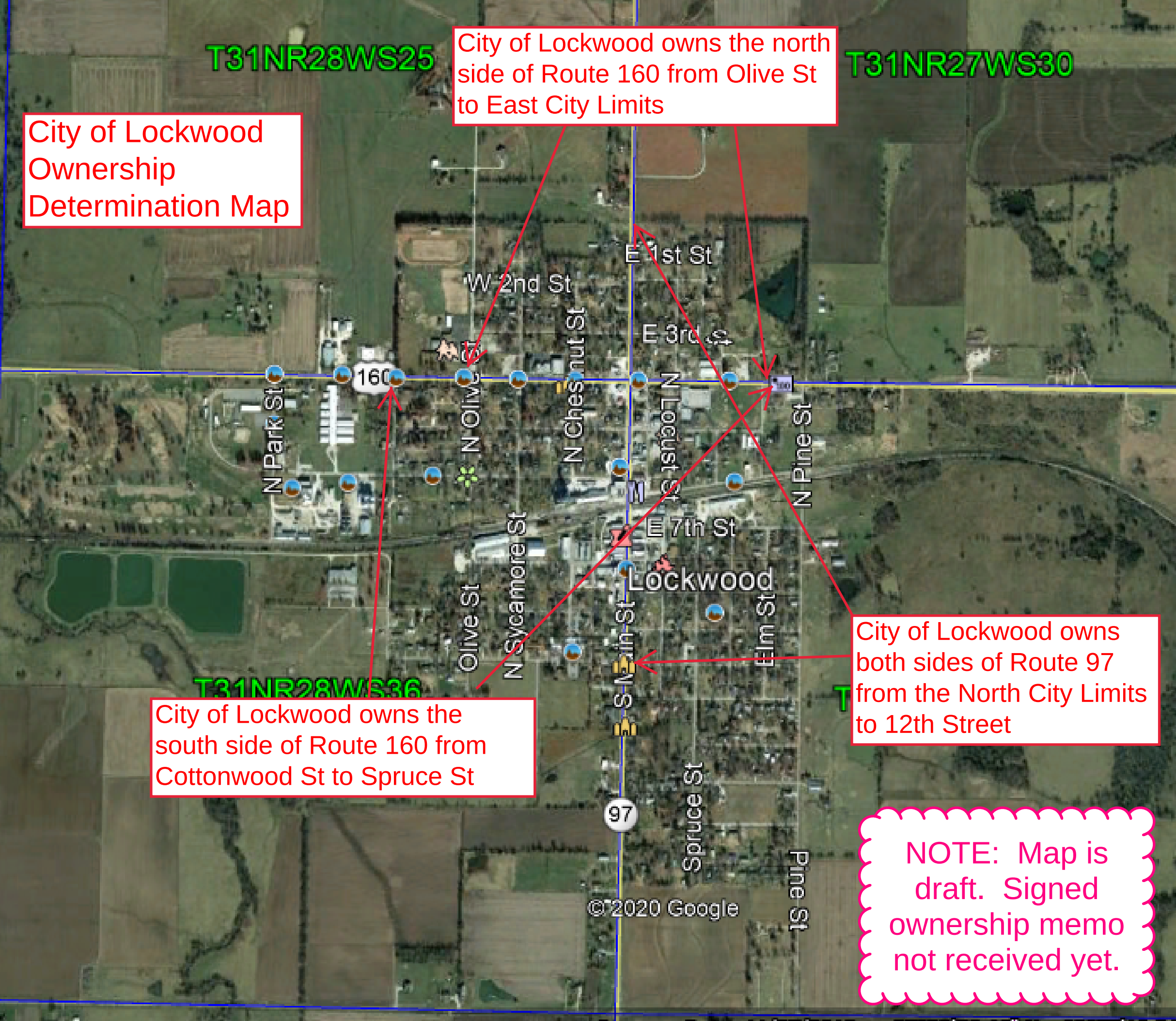
MO.
DADE
N
MRS ALMA M. BARKER
S.W.¼ SE¼ SEC 26 T31N R28W
MRS ALMA M. BARKER
SE¼ SE¼ SEC 26 T31N R28W
PUBLIC ROAD
NOTE: CULVIN PLACE 18'LT & ACROSS ROAD 4'12 X15 Use in place
P.I. STA 294+00
Sta 297+94 Pit in 15" Farm Ent 18' Long Rt
Sta 305+80 Put In 15" Farm Ent 18' Long Rt
JOHN N. COVERT
NW¼ NE¼ SEC 35 T31N R28W.
JOHN N. COVERT
NE¼ NE¼ SEC 35 T31N R28W.
CREEK
NOTE: TRIPLE STONE ARCH BRIDGE IN PLACE
STA. 314+5.20 ROAD WAY 35 LONG SLAB 12" THICK
TEL POLE
FNC POST
House
PLAN
PROFILE
-0.6%
+0.18%
+0.47%
-1.06%
V.C. 200'
V.C. 300'
V.C. 200'
V.C. 100
0.00%
Loose Rock 309-311
1080
1070
1060
1050
1040
290
295
300
305
310
315
320



N
5 Mo. 1/16
7 DADE
JOHN VON STROH
SW¼ SW¼ SEC 25-31-28
NOTE: STA 320+52 CULV IN PLACE 5X2X26 OLD. 5X2 EXTENDED 5' ON LT. END. Clean Outlet Excavate Tail Ditch 300' long
JOHN VAN STROH
S.E¼ S.W¼ SEC 25-31-28
FRANK VON STROH
S.W.¼ S.E¼ SEC 25-31-28
Note: Sta 339+44 in place Lt. Conc. Side Drain 2'X1.5'X 19' Long Use in place
R.W. LINE
NOTE: STA 345+29 CULV IN PLACE 17' LT. 3'x2'x15 CONC Use in place
S.P. MONTGOMERY
N.W¼ N.W¼ SEC 36-31-28
Note: All hedge within the right of way is to be pulled or grubbed by the contractor and cost of same is to be included in the unit prices for earth excavation
S.P. MONTGOMERY
N.E¼ NW¼ SEC 36-31 28
MALLIE SCHURMAN
W.E¼ NW¼ SEC 36-31-28
Park Street
CITY LIMITS
PUBLIC ROAD
TEL POLE
PEACH TREE
5 HEDGE
B.M. X ON N.E. COR. S. HDW. CULV. STA 328+52 ELEV 1057.42
B.M. X ON N.E. COR. E. HDW. SIDE CULV. STA 339+50 ELEV 1071.02
+2.35%
-1.52%
0.0%
+1.7%
+1.52%
+0.73%
V.C. 200'
V.C. 100'
H.W.L. 53.5
C-21.3
F-13.3
C-84
F-15.8
1050
1060
1070
1080
320
325
330
335
340
345
350


N
FRANK VON STROH
SW¼ SE¼ SEC 25 T31N R28W
CATALPA
CATALPA
CATALPA
LOTS
CENTER
GREENFIELD
ST.
P.I. STA 360+33.4
Δ 0°15' RT
P.I. STA 354+36.0
Δ 0°30' LT
P.I. STA 371+00
Δ 0°19' LT
Sta 356+65 in place Lt ℄ Cross Drain Use in place
Sta 356+70 in place Rt ℄ Cross Drain Use in place
NOTE: STA 350 CONC CULV 18' Rt ℄ 3'x1'x24' Use in place
NOTE: STA 360+86 8" TILE 48' LONG IN PLACE. Use in place
NOTE: STA 365+42 CONC CULV 3'x1.5'x32' IN PLACE Use in place
NOTE: STA 369+53 12" TILE 36' LONG IN PLACE Use in place
Sta 373+75 in place Lt ℄ Cross Drain Cond OK Use in place
CITY LIMITS LOCKWOOD
PUBLIC ROAD
THIRD ST
SECOND
FIRST
RANGE
CEDAR
MAPLE ST
HEDGE
6" HEDGE
Note: All hedge within the right of way is to be pulled or grubbed by the contractor and the cost of same to be included in the unit prices bid on earth excavation
LOCKWOOD MO.
Cottonwood Street
Olive Street
Sycamore Street
Chestnut Street
Main Street (MO 97)
Locust Street
Spruce Street
Street no longer connects
B.M. X On S.E. Cor. Top Step Of Lutheran Church Lt Sta 361+25 Elev 1077.59
+0.05%
0.60%
+0.42%
+0.10%
-0.50%
1080
1070
1060
350
355
360
365
370
375
380
5
Mo.
7
DADE
PLATE 1—PLAN—PROFILE
KEUFFEL & ESSER CO. NEW YORK

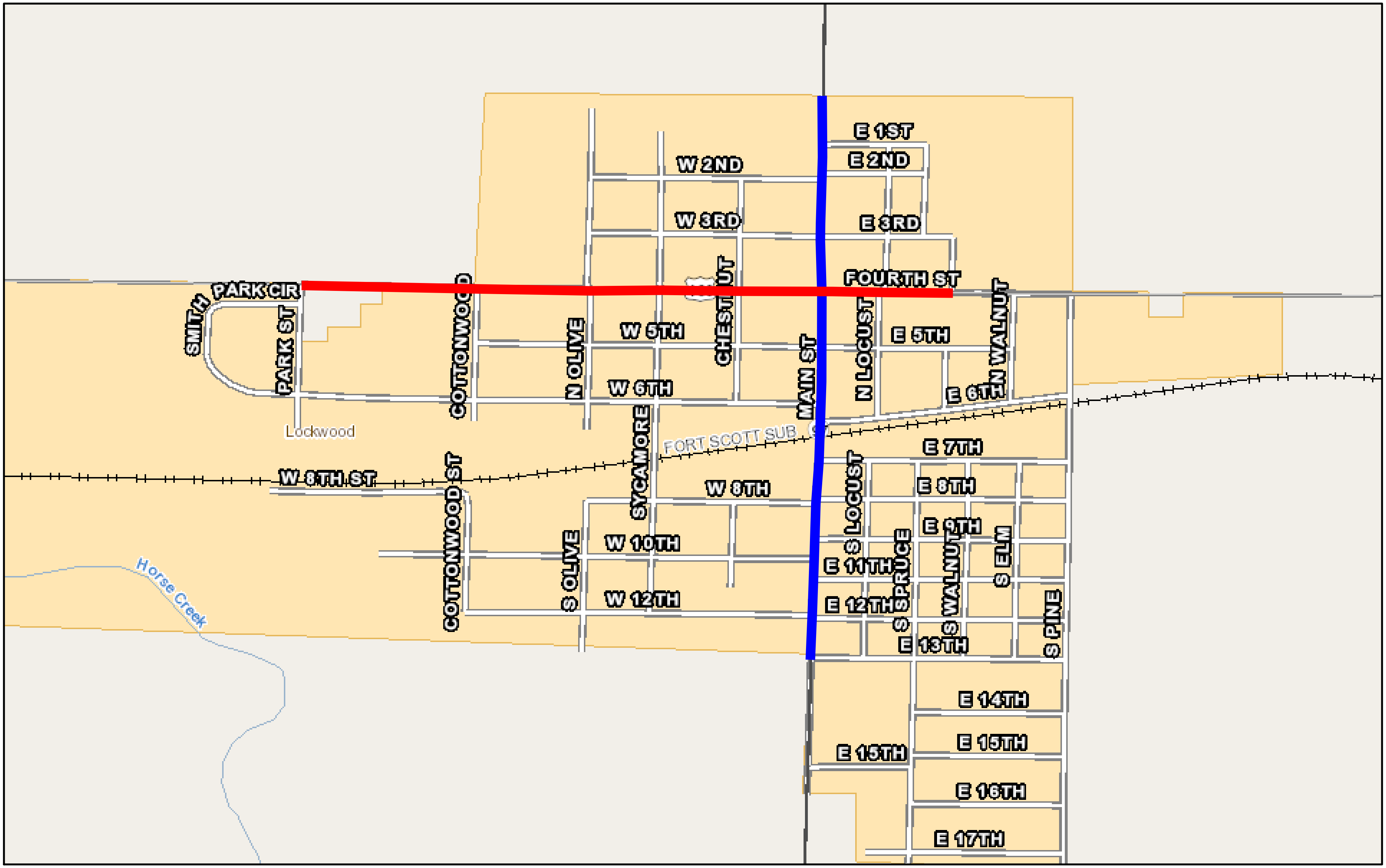

NOTE:- All hedge within the Right of way is to be pulled or grubbed by the Contractor and the cost of same is to be included in the unit prices bid on earth Exc.
N
Sta 379+80 Put in 15" Farm Ent 18' Long Lt
LOTS
R.W. LINE
Sta 381+00 in place Rt. E. Conc. Cross Drain Remove + Put in 18" Cross Drain 30' Long
Sta 384+30 in place Rt. E. Conc. Cross Drain Remove + Put in 24" Cross Drain 24' Long
Sta 384+60 in place Rt. E. Conc. Pipe Farm Ent Remove + Put in 15" Farm Ent 18' Long
STREET
LOTS
J.M. ENDSLEY
S.E.¼ S.W.¼ Sec 30-31-27
JOHN WOLF
N.E.¼ N.W.¼ Sec 31-31-27
NOTE: Sta 394+94 Conc Culv. 5'x3'x26' In Place Old 4'x3' Extended 4' Rt 3' Lt
NOTE: Sta 394+35 Conc Culv. 5'x3'x26' In Place. Old 4'x3' Extended 4' Rt & 3' Lt. Clean Outlet.
Sta 397+56 Put in 15" Farm Ent 18' Long Rt
P.I. Sta 399+00 Δ = 0°35' Lt
Beginning of R. 36 Sec 17
Sta. 397+50 End Route 36 S 16
WALNUT
HEDGE
HEDGE TREE
P.I. Sta 402+75 Δ = 0°42' Rt
NW COR. 15 HDWALL
N.E. COR. 15 HDWALL
Chas. W. Gillman SW¼ S.E.¼ Sec 30-31-27
NOTE: Sta 402+75 Culv In Place 2'x1.5'x24' Old 2.5'x2' Extended 9' Lt. Open Outlet.
JOHN WOLF
N.W.¼ N.E.¼ Sec 31-31-27
B.M. On S Root 18" Maple 30' Rt. Sta 384+65 Elev 1068.95
B.M. X N.E. Cor. Hdwall Culv. Sta 394+94 Elev 1051.18
B.M. X On N.E. Cor. Hdwall Culv. Sta 402+75
C-52 F-46
C-74 F-37
C-93 F-43
C-58 F-48
C-81 F-99 B-37
C-63 F-52
C-96 F-80
P.I. 1068.7
P.I. 1067.0
P.I. 1046
P.I. 1060.8
V.C. 200'
V.C. 550'
U.FL. 36.2
U.FL. 45.9
U.FL. 58.0
+0.035%
1070
1060
1050
380 1 2 3 4 385 6 7 8 9 390 1 2 3 4 395 6 7 8 9 400 1 2 3 4 405 6
PLAN
PROFILE
2D



City of Lockwood Ownership Determination Map
T31NR28WS25
City of Lockwood owns the north side of Route 160 from Olive St to East City Limits
T31NR27WS30
E 1st St
W 2nd St
E 3rd St
160
N Park St
N Olive
N Locust St
N Pine St
E 7th St
Lockwood
Olive St
N Sycamore St
Elm St
T31NR28WS36
City of Lockwood owns the south side of Route 160 from Cottonwood St to Spruce St
City of Lockwood owns both sides of Route 97 from the North City Limits to 12th Street
97
Spruce St
Pine St
©2020 Google
NOTE: Map is draft. Signed ownership memo not received yet.

Don't have approved ADA ownership memo and map yet.

J7S3531 - City of Lockwood



February 5, 2023

= PROJECT LIMITS (Route 160)

= PROJECT LIMITS (Route 97)

1:12,000

0 0.08 0.16 0.32 mi

0 0.13 0.26 0.52 km

Missouri Department of Transportation