

CHIEF DRAFTSMAN	LOCATING ENGR.	DESIGN ENGR.	BRIDGE ENGR.	CONSTRUCTION ENGR.	B. P. R.
CEB 8-17-56		J.B.M.	D.L.M.		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.			1	

GRADE CROSSINGS	0
GRADE CROSSINGS ELIMINATED	0
BY SEPARATION	OVERPASS 0
	UNDERPASS 0
BY RELOCATION	0
GRADE CROSSINGS REMAINING	0

# INDEX OF SHEETS

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"	" 28. STD. GR-1-3
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"	" 30. STD. SE-1-0
"	" 31. STD. MD-2-1
"	" 32. STD. MPA-1-1
"	" 33. STD. CP-2-0
"	" 34. STD. CP-2S-0
"	" 35. STD. BC-5S <sub>2</sub> RF
"	" 36. STD. BC-6
"	" 37. STD. BC-6S <sub>2</sub> RF
"	" 38. STD. BC-6AS <sub>4</sub> RF
"	" 39. STD. CD-1-1
"	" 40. STD. MMH-1-0
"	" 41. STD. MFC-1-1
"	" 42. STD. SGF-1
"	" 43. STD. SSI-2A
"	" 44. STD. SSI-3
"	" 45. STD. PCD-3-3
"	" 46. STD. PCD-4-1
"	" 47. STD. J-8-55
"	" 48. STD. P-4F-2
"	" 49-80 CROSS SECTIONS
"	" 48A RWF-1-1

# SCALES

PLAN	1" = 50'-30'
PROFILE	HOR. 1" = 50'-30'
	VER. 1" = 5'-3'
CROSS SECTIONS	1" = 10'
LAYOUT MAP	1" = 5,280'
USC & GS LEVEL DATUM	
BEARINGS FROM OBSERVATION ON POLARIS	

# CONVENTIONAL SIGNS

	PROPOSED ROAD
	RAILROADS
	RANGE & TOWNSHIP LINES
	SECTION LINES
	QUARTER SECTION LINES
	FENCES
	BASE LINE
	RIGHT-OF-WAY LINES
	GROUND LINES
	GRADE LINE
	TRAVELLED ROADS
	CULVERTS & BRIDGES
	TELEPHONE & TELEGRAPH
	POWER LINES
	BUILDINGS
	UNLOADING POINTS
	OIL WELLS
	RIGHT OF WAY MARKERS

F.A. SPECIAL PROVISIONS GOVERN AND  
STATE STANDARD SPECIFICATIONS GOVERN APPROVED APRIL 28, 1955

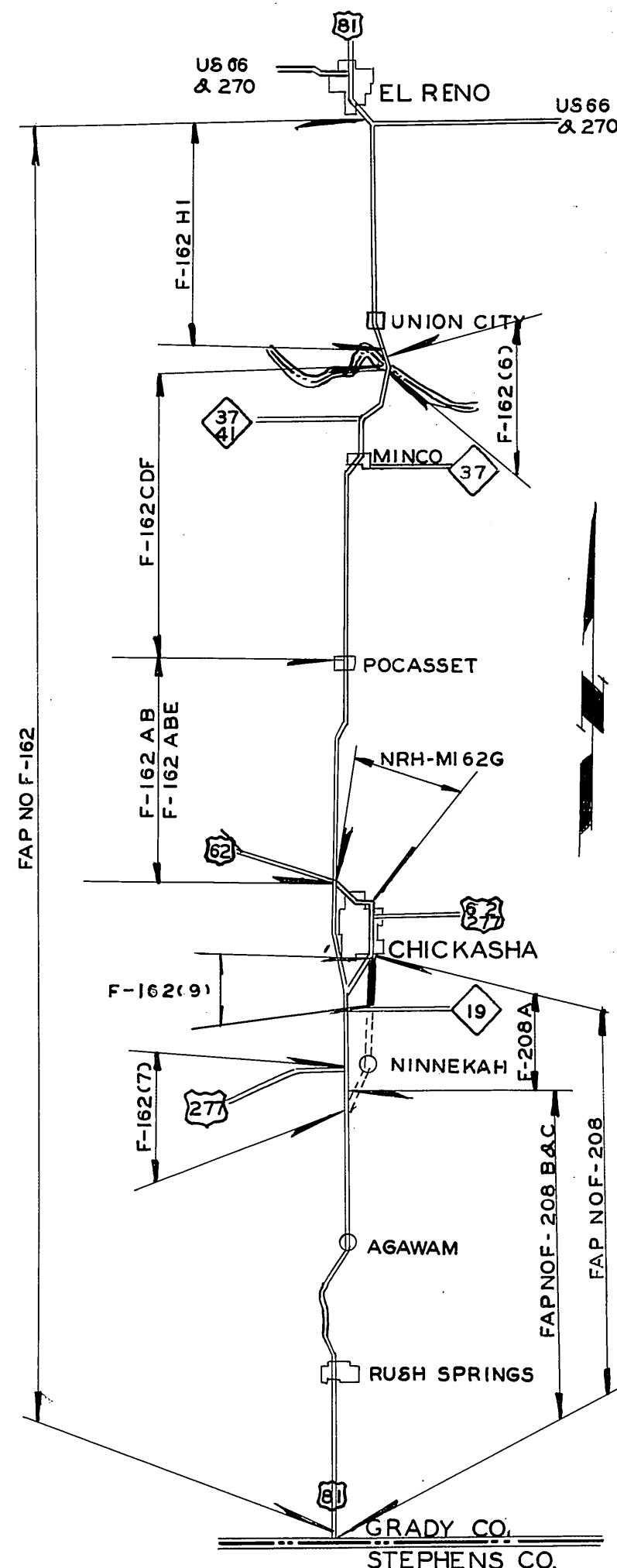
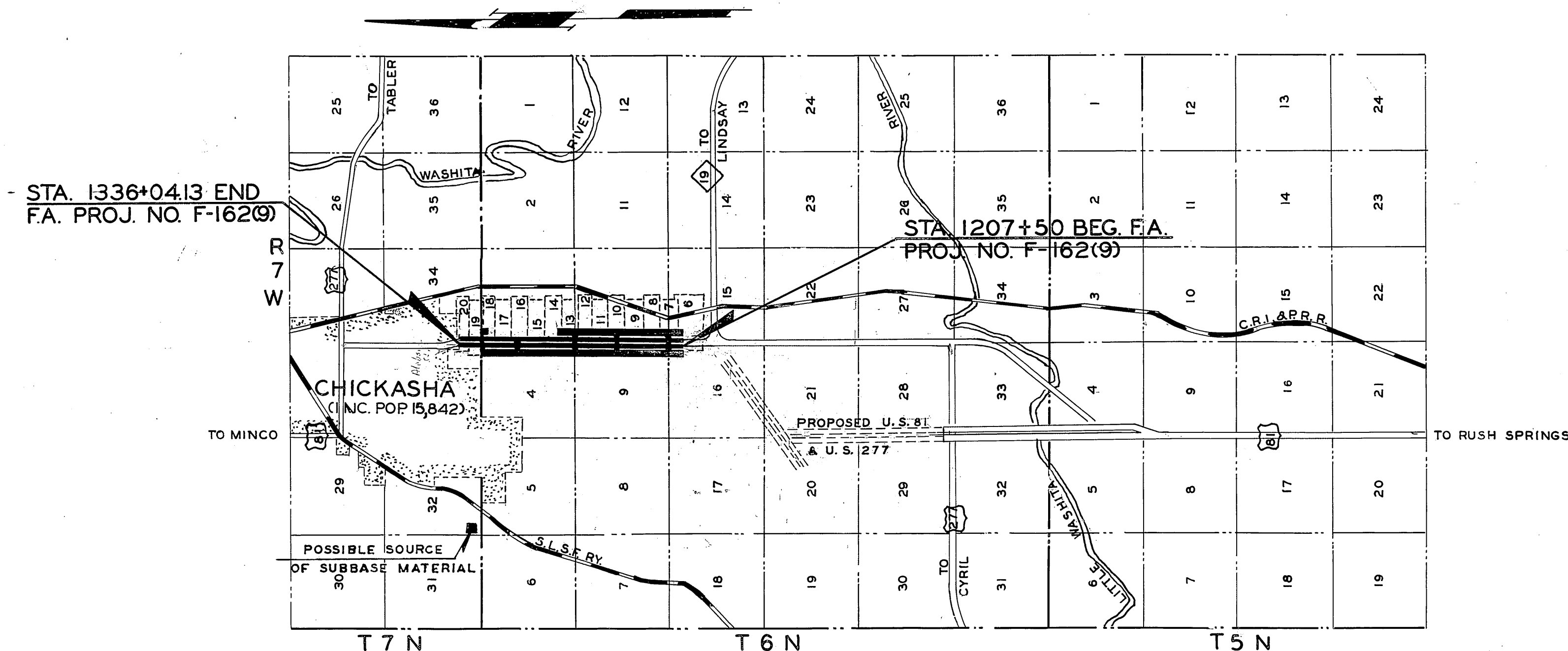
# STATE OF OKLAHOMA DEPARTMENT OF HIGHWAYS

# PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT NO. F-162(9)  
U. S. HIGHWAY NO. 81

# GRADY COUNTY

CONTROL SECTION NO. 26-07



PROJECT MODIFICATION SKETCH

APPROVED  
THIS DAY OF 1956

CHIEF ENGINEER  
OKLA. DEPARTMENT OF HIGHWAYS

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED DATE

DISTRICT ENGINEER

Under the rules and regulations of  
the Bureau of Public Roads, any  
changes in the design, including en-  
trances to through lanes or location  
of median openings shall first have  
written approval from the Department  
of Highways and the Bureau of Public  
Roads before executing any work.

FILE NO.	DATE	FROM	FISCAL YEAR	ENTRY NO.	INITIALS
6	GRILE				



STA. 1316 + 00 TO STA. 1322 + 82

TYPICAL GRADING AND SURFACING SECTION

Diagram illustrating the roof edge detail. The roof surface is labeled "Dbl. Bit. Surface". The vertical wall is labeled "Shoulder". The edge of the roof is labeled "6" Edge". The roof is covered with "No. 2 Cover" and "No. 1 Cover". The wall is covered with "Stab. Agg. Base Course".

6" Edge To Be Constructed Of No. 2  
Cover Material & Asphalt Binder.



### LESS INTERSECTIONS

## SURFACING SHEET ESTIMATES

DRAINAGE STRUCTURES															
STR. NO.	P & P SHEET NO.	STATION	DESCRIPTION	DESIGN	DESIGN SHEET NO.	CONST. JOINTS	STRUC. EXCAV. CU. YD.	CL."A" CONC. CU.YD.	REINF. STEEL LB.	C.G.M. P. ARCH L.F.		C.G.M. PIPE L.F.			
										22 X13-	29 X18	24	30	36	
1	6	1205+20	24'x70' Long C&MP Under Temp. Conn. Skew 45° Lt. Fwd. W/90° Wings	CP-2-D			145	2.18	172			70'			
2	6	1205+68	DELETED												
3	6	1207+00	29'x18"x22'-8" Rdy. CGMP Arch SD. Lt. W/Hdwlls.	MDA-I-1			8	1.24	42		24				
4	11	1252+40	2'-8½x214' CI Rdy. RCB. Skew 60° Rt. Fwd.	BC-6AS,RF		5	2300	436.73	50,707						
5	11	1252+60	5'x3'x54' Rdy. RCB. S.D. Lt.	BC-6			235	27.61	2605						
6	14	1277+00	5'x3'x192' CI Rdy. RCB. Skew 60° Rt. Fwd.	BC-5S,RF		5	5'80	97.81	9829						
7	16	1296+36	22'x13'x22'-8" Rdy. C&MP Arch SD. Rt. W/Hdwlls.	MDA-I-1			6	0.84	34		24				
8	16	1296+36	29'x18"x26'-8" Rdy. C&MP Arch SD. 950' Rt. W/Hdwlls.	MDA-I-1			10	1.24	42			28			
9	17	1304+58	5'x5'x160' CI Rdy. RCB. Skew 60° Rt. Fwd.	BC-6S,RF		3	1020	163.18	12,403						



SUMMARY OF PAY QUANTITIES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA				

PAY QUANTITIES-BRIDGES

ITEM NUMBER	ITEM	UNIT	
202.06d	Class "D" Unclassified Excavation	Cu. Yd.	
308.06a	Sand Cushion	Sq. Yd.	
414.06c	Approach Slabs	Sq. Yd.	
501.06a	Structural Excavation, Unclassified	Cu. Yd.	
501.06b	Substructure Excavation, Common	Cu. Yd.	
501.06c	Substructure Excavation, Rock	Cu. Yd.	
501.06d	Removal of Existing Structure	Each	
505.06	Concrete Rails	Lin. Ft.	
505.06	Aluminum Hand Rail	Lin. Ft.	
505.06	Steel Handrailing	Lin. Ft.	
506.06	Structural Steel	Lb.	
507.06	Timber	M.F.B.M.	
509.06a	Class "A" Concrete	Cu. Yd.	
509.06a	Class "A" Concrete (Pier & Abutment Bases)	Cu. Yd.	
509.06b	Class "AA" Concrete	Cu. Yd.	
511.06	Reinforcing Steel	Lb.	
513.06a	15" Corrugated Galvanized Metal Pipe	Lin. Ft.	
513.06a	18" Corrugated Galvanized Metal Pipe	Lin. Ft.	
514.06a	Test Piles	Each	
514.06b	Untreated Timber Piling	Lin. Ft.	
514.06c	Treated Timber Piling	Lin. Ft.	
514.06d	Reinforced Concrete Piling	Lin. Ft.	
514.06e	Steel Piling	Lin. Ft.	
514.06f	Steel Piling Splices	Each	
601.06a	Plain Rip Rap	Cu. Yd.	
601.06b	Special Plain Rip Rap	Ton	
611.06h	Inlet Frame & Grate	Each	
624.06a	6" Black Traffic Stripe	Lin. Ft.	

PAY QUANTITIES-ROADWAY

ITEM NUMBER	ITEM	UNIT	GRADING	SURFACING
202.06d	Class "D" Unclassified Excavation	Cu. Yd.	▲ 123,025	
204.06	Overhaul	Sec. Yd.	33,300	
206.06a	Reshaping Roadbed	1/2 Mile		
303.06	Stabilized Aggregate Base Course	Ton		32,801.6
303.06	Stabilized Aggregate Base Course (Shoulder)	Ton		6,831
306.06a	Subbase	Cu. Yd.		46,608
308.06a	4" Sand Cushion	Sq. Yd.		72,423
310.06b	Subgrade, Method B	Sq. Yd.		
313.06a	Asphalt for Stabilization	Gal.		
313.06b	Suitable Soil for Blending for Soil-Asphalt Base	Sq. Yd.		
313.06b	Suitable Soil for Soil-Asphalt Base	Sq. Yd.		
313.06c	Manipulation	Sq. Yd.		
313.06d	Rolling	Hour		
401.06a	Traffic Bound Surface Course, Type A	Cu. Yd.		602.5
403.06a	Prime Material	Gal.		39,027
403.06b	Asphalt Binder	Gal.		17,501
403.06c	No. 1 Cover Material	Cu. Yd.		375.1
403.06d	No. 2 Cover Material	Cu. Yd.		342.8
408.06a	Blended Rock Asphalt Surface Course	Sq. Yd.		
411.06a	Type "A" Aggregate	Ton		
411.06a	Type "B" Aggregate	Ton		
411.06a	Type "C" Aggregate	Ton		6,662.7
411.06b	Asphalt (85 to 100 Penetration)	Ton		501
411.06c	Tack Coat (Asphalt Emulsion AE-5)	Gal.		
414.06a(ae)	8" Portland Cement Concrete Pavement (Air-Entraining Agent)	Sq. Yd.		67,633
414.06b(ae)	8" High Early Strength Concrete Pavement (Air-Entraining Agent)	Sq. Yd.		
501.06a	Structural Excavation, Unclassified	Cu. Yd.	4209	
509.06a	Class "A" Concrete	Cu. Yd.	778.2	
509.06d	Class "C" Concrete	Cu. Yd.		2.98
511.06	Reinforcing Steel	Lb.	76,678	
512.06a	18" Reinforced Concrete Culvert Pipe	Lin. Ft.		
512.06a	24" Reinforced Concrete Culvert Pipe	Lin. Ft.		
512.06a	30" Reinforced Concrete Culvert Pipe	Lin. Ft.		
512.06a	36" Reinforced Concrete Culvert Pipe	Lin. Ft.		
512.06a	42" Reinforced Concrete Culvert Pipe	Lin. Ft.		
513.06a	24" Corrugated Galvanized Metal Pipe	Lin. Ft.	70	
513.06a	30" Corrugated Galvanized Metal Pipe	Lin. Ft.		
513.06a	36" Corrugated Galvanized Metal Pipe	Lin. Ft.		
513.06a	48" Corrugated Galvanized Metal Pipe	Lin. Ft.		
513.06b	22"x13" Corrugated Galvanized Metal Pipe Arch	Lin. Ft.		
513.06b	29"x18" Corrugated Galvanized Metal Pipe Arch	Lin. Ft.	48	
513.06b	36"x22" Corrugated Galvanized Metal Pipe Arch	Lin. Ft.	52	
513.06b	43"x27" Corrugated Galvanized Metal Pipe Arch	Lin. Ft.		
601.06a	Plain Rip Rap	Cu. Yd.		
602.06	Laid Up Rip Rap	Sq. Yd.		
608.06	6" Integral Curb	Lin. Ft.		22,117
608.06	4" Integral Curb	Lin. Ft.		17,885.8
609.06b	2'-6" Combined Curb and Gutter	Lin. Ft.		38,152.9
609.06b	Combined Curb and Gutter (Var. Width)	Lin. Ft.		598
610.06b(ae)	Concrete Driveway (Air-Entrained Concrete) (6")	Sq. Yd.		1116.2
614.06h	8" Pipe Underdrain (Perforated Corrugated Metal Pipe)	Lin. Ft.		
614.06a	Pipe Underdrain Cover Material	Cu. Yd.		
620.06a	Concrete Paving Removed	Sq. Yd.	26,408.3	
622.06a	Pipe Railing (1 1/2" Galvanized Iron)	Lin. Ft.		
623.06c	Metal Plate Guard Rail	Lin. Ft.		25
623.06h	Guide Posts	Each		
624.06a	6" Black Traffic Stripe	Lin. Ft.		22,940
625.06a	Monuments	Each		
625.06b	Right-of-Way Markers	Each	35	
626.06	Fertilizer	Ton		2,498
Special	Water	M. Gal.		795
Special	Bermuda Slab Sodding	Sq. Yd.		26,488
Special	Mulch Sodding	Cu. Yd.		
Special	Bermuda Plug Sodding	Sq. Yd.		
Special	Right-of-Way Fence	Lin. Ft.	5,650	
Special	Right-of-Way Fence Gate	Each		
610.06a	4" Concrete Sidewalk	Sq. Yd.		49.6
611.06a	Manhole	Each	13	
611.06b	Additional Depth Masonry in Manhole	Vert. Ft.	6.5	
611.06d	Manhole Frame and Cover (Type B)	Each	13	
611.06e	Inlet Brick Masonry	Cu. Ft.	2,552.18	
611.06f	Special Inlet Curb	Lin. Ft.	893.91	
611.06h	Inlet Frame and Grate	Each	86	
613.06b	18" Reinforced Concrete Pipe Sewer	Lin. Ft.	1,290	
613.06c	24" Reinforced Concrete Pipe Sewer	Lin. Ft.	1,658	
613.06d	30" Reinforced Concrete Pipe Sewer	Lin. Ft.	1,808	
620.06g	Concrete Sidewalk Removed	Sq. Yd.	138.8	
620.06j	Concrete Driveway Removed	Sq. Yd.	940.2	
210.06c	3" Top Soil (Placed Directly)	Sq. Yd.		79,564
Special	Shaping Roadbed	Sq. Yd.	30	
Special	Remove and Relay Stabilized Aggregate Base Course	Ton		1078

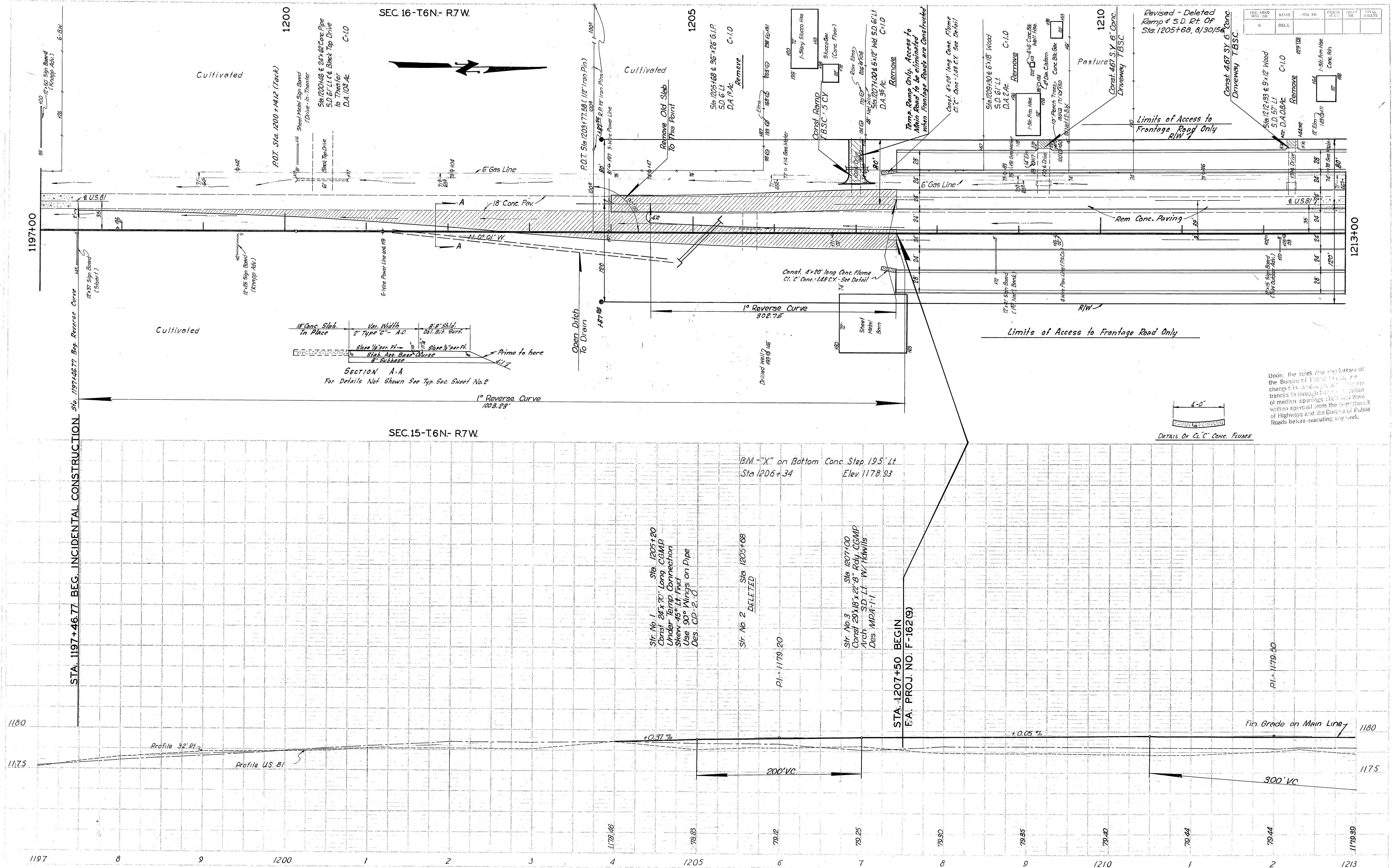
MAINTENANCE OF TRAFFIC  
This Project shall be constructed without closing existing road to local or through traffic. See Std. Specifications of 1954 for Maintenance of Local and Through Traffic. See Special Provisions for "Sequence of Operations" for Maintaining Traffic.

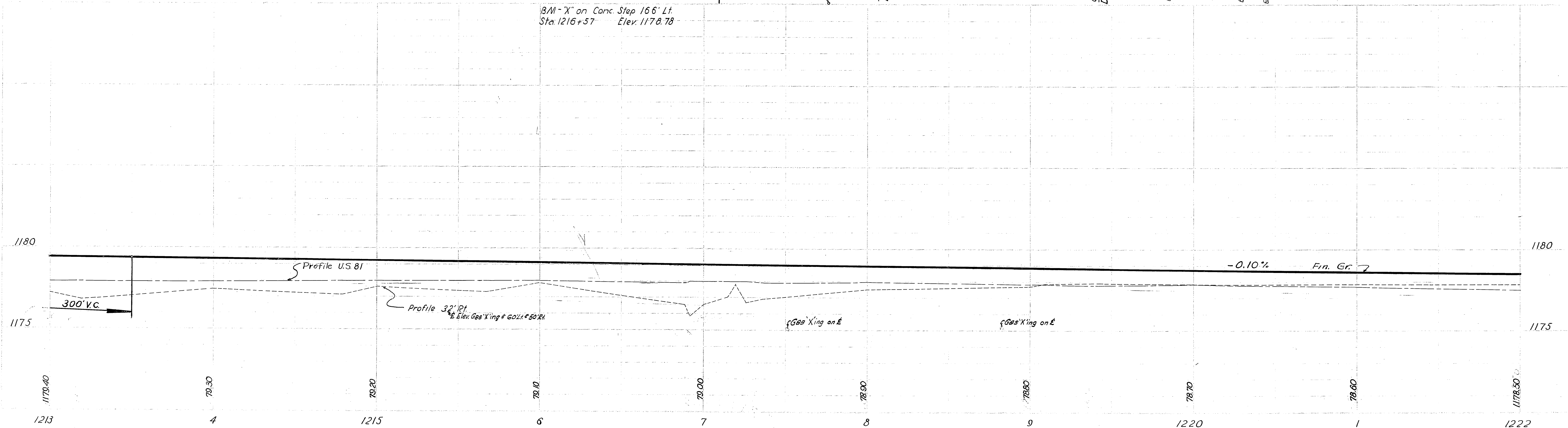
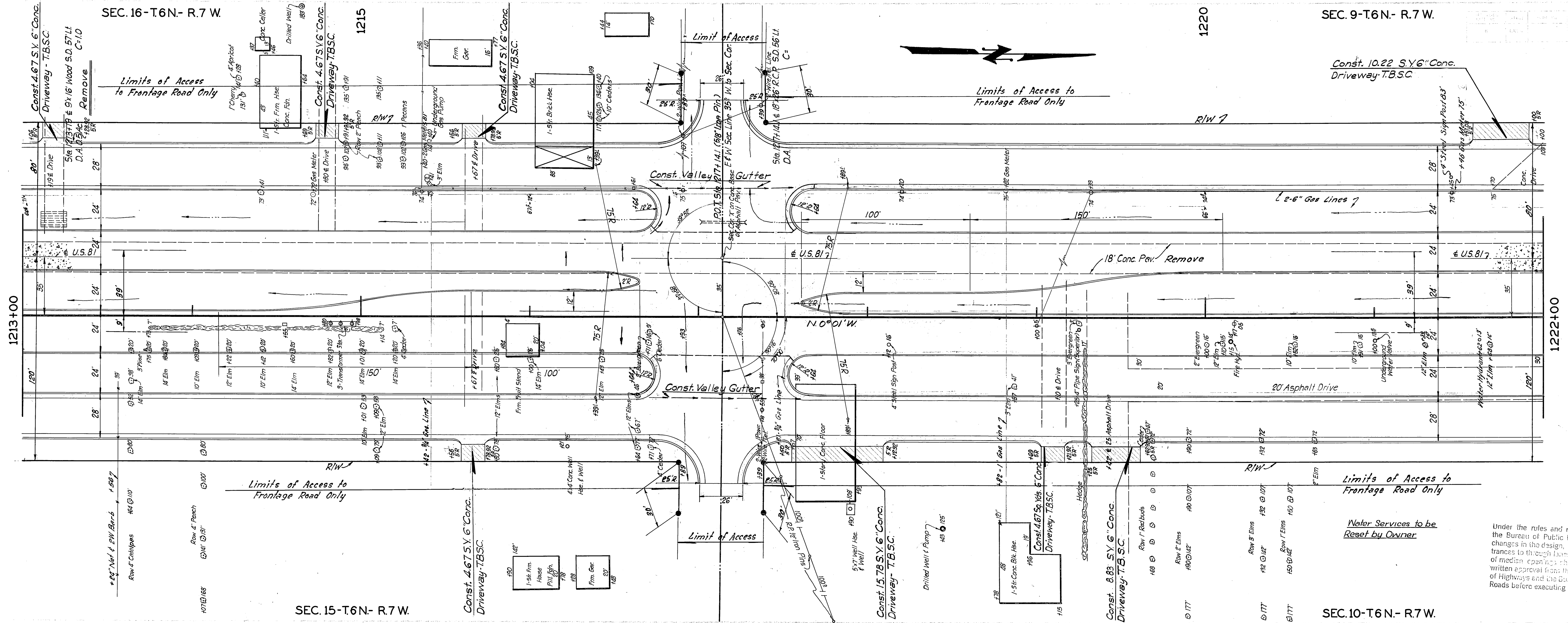
- ① Includes Cu. Yds. for Ramps, Dykes and Miscellaneous Earthwork Where No Quantity is Shown on P & P Sheets.
- ② Est. at 148 Lbs. Per Cu. Ft.
- ③ Est. at Gals. Per Sq. Yd. of Soil Asphalt Base.
- ④ Est. at Hours Per Mile.
- ⑤ Est. at 0.4 Gal. Per Sq. Yd.
- ⑥ Est. at 0.75 Gals. Per Sq. Yd. of Double Bituminous Surface. ‡ @ 0.45 Gal. Per Sq. Yd. of Edge
- ⑦ Est. at 1.0 Cu. Yd. Per 60 Sq. Yd. Double Bituminous Surface.
- ⑧ Est. at 1.0 Cu. Yd. Per 70 Sq. Yd. Double Bituminous Surface. ‡ @ 1 Cu. Yd. Per 64 Sq. Yds. of Edge
- ⑨ Est. at 100 Lbs. Per Sq. Yd. Per 1" Thickness.
- ⑩ Est. at 94% of Asphaltic Concrete
- ⑪ Est. at 93.5% of Asphaltic Concrete } (Asphaltic Concrete Est. at 105 Lbs. Per Sq. Yd. Per 1" Thickness or
- ⑫ Est. at 93% of Asphaltic Concrete } 140 Lbs. Per Cu. Ft.
- ⑬ Est. at 6% of Asphaltic Concrete Type "A"; Est. at 6.5% of Asphaltic Concrete Type "B"; Est. at 7% of Asphalt Concrete Type "C"
- ⑭ Est. at 0.1 Gal. Per Sq. Yd.
- ⑮ Est. at 37 Cu. Yd. Per Sta.
- ⑯ Includes Marker Posts.
- ⑰ Est. at 30 Gal. Per Sq. Yd. Ber. Strip Sod, 10 Gal. Per Sq. Yd. Ber. Slab Sod, 15 Gal. Per Sq. Yd. Ber. Plug Sod & Mulch Sod.
- ⑱ Includes 45.51 Cu. Yds. In Storm Sewer Construction
- ⑲ Includes 810 Lbs. In Storm Sewer Construction
- ⑳ Est. @ 0.152 Tons per Acre
- ㉑ Increased by 40%
- ㉒ Includes 2% Added for Ground Measurement and Contingencies.
- ㉓ To be Approx. 2" Thick on all Ramps.
- ㉔ Est. @ 89% of Stab. Agg. Base on Widening for Maintaining Traffic

▲ See Special Provision for "Test Rolling"

See General Construction Notes Sheet No. 5. Only the Following Notes Apply. Nos. 1, 5, 9, 11, 12, 13, 14, 15, 16, 22, 24, 27, 30, 31, 35

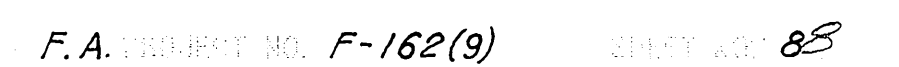
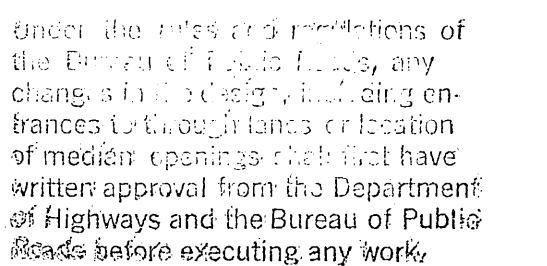






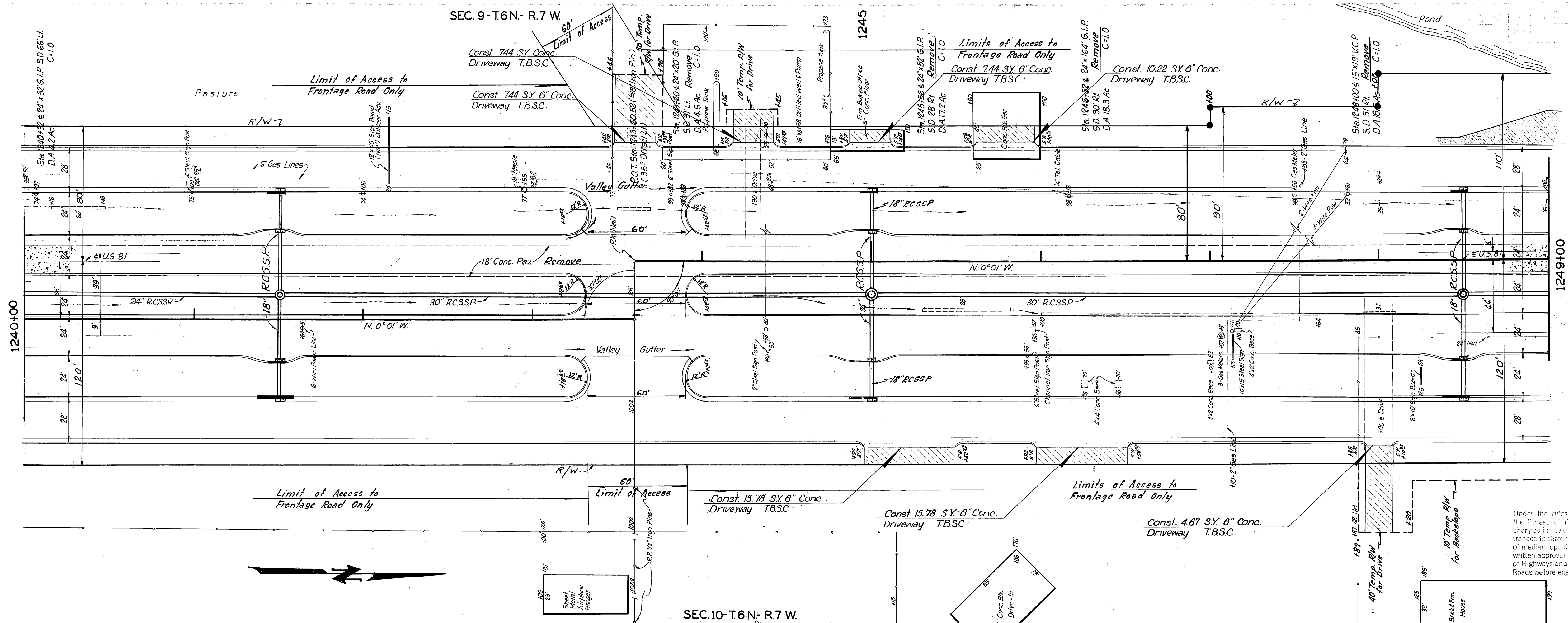
Under the rules and regulations of the Bureau of Public Roads, any changes in the design, including entrances to through lanes, relocation of median openings, etc., must have written approval from the Department of Highways and the Bureau of Public Roads before executing any work.



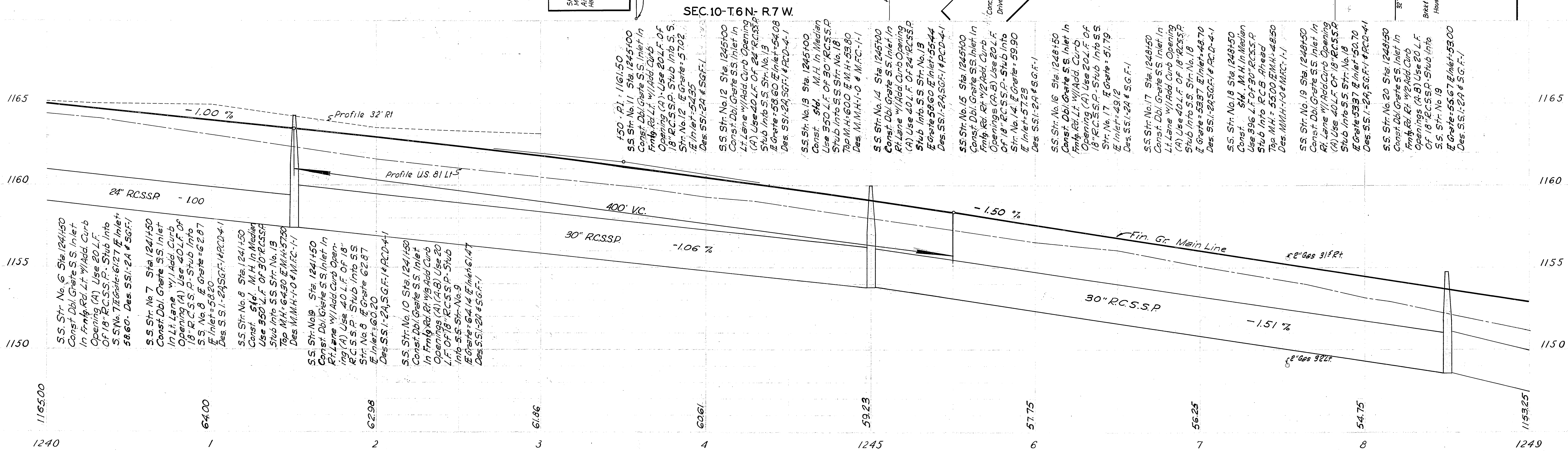


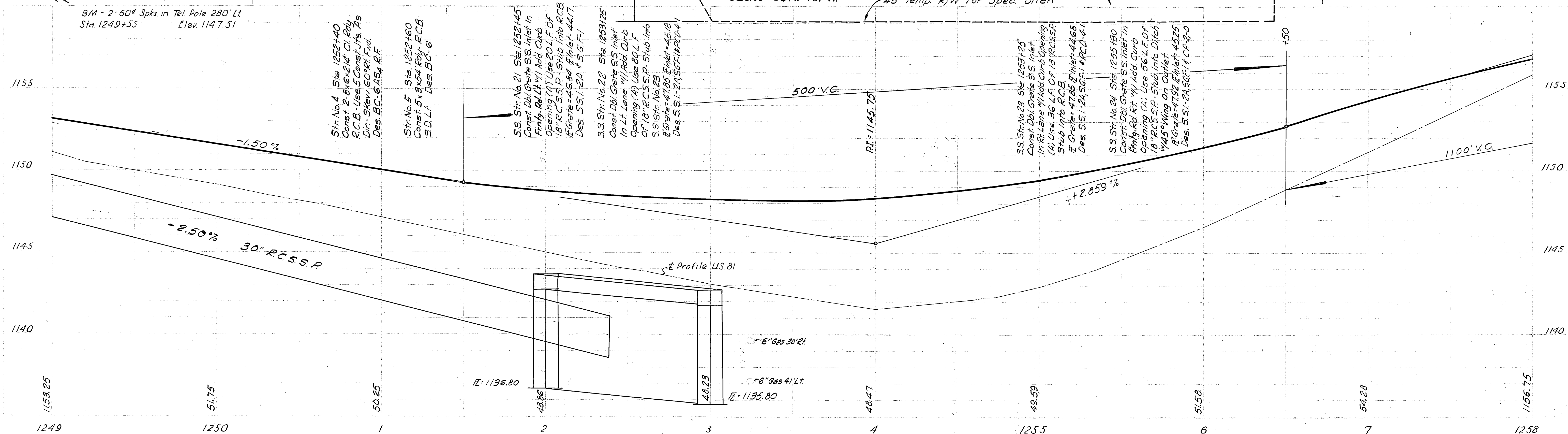
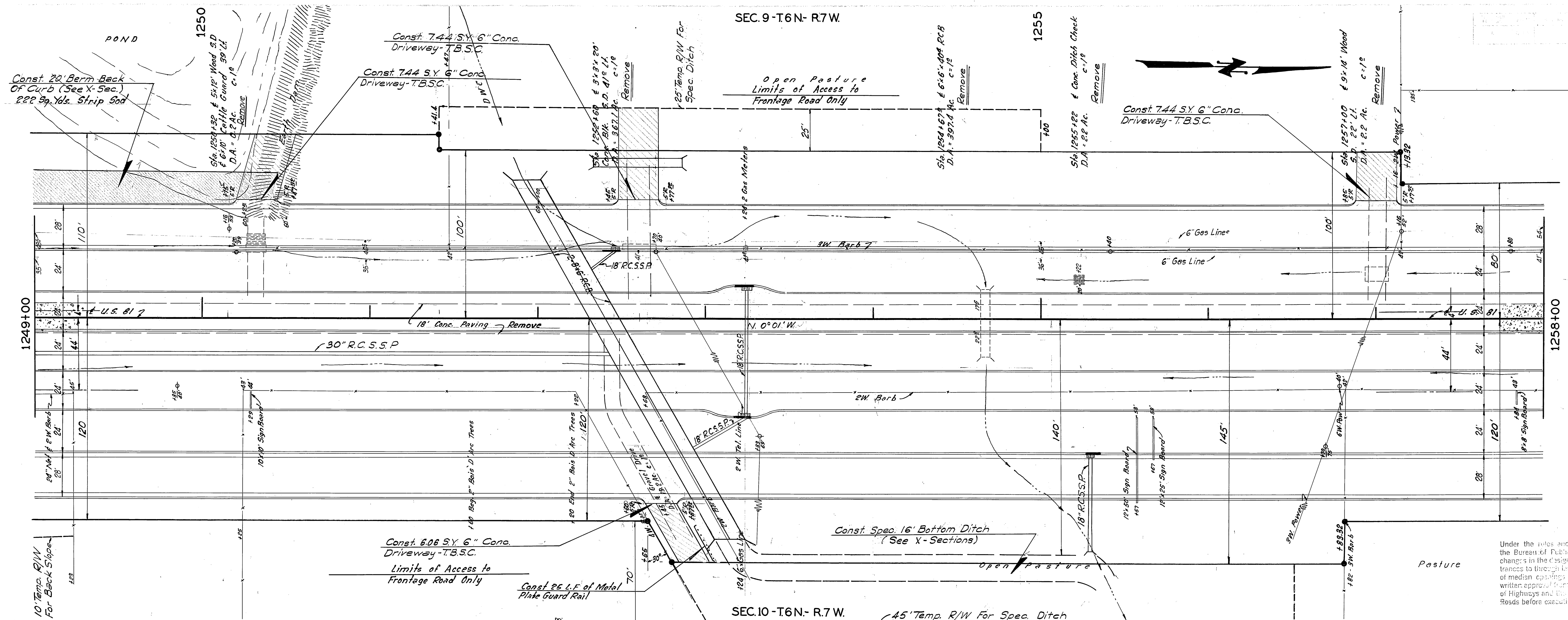






Under the rules and regulations of the Department of Public Roads, any changes in the design and location of median openings shall first have written approval from the Department of Highways and the Bureau of Public Roads before executing any work.

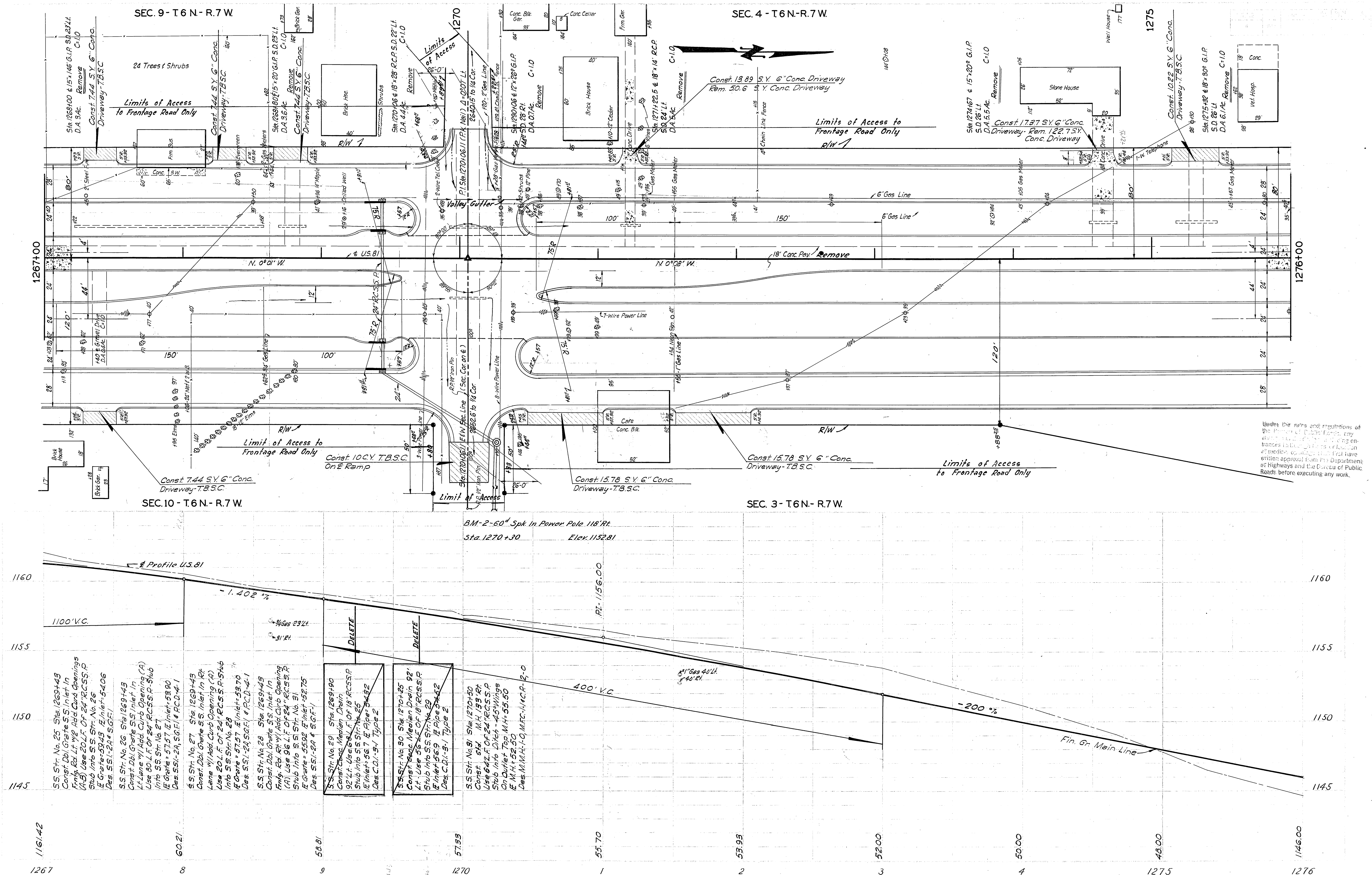




Under the rules and regulations of the Bureau of Public Roads, any changes in the design, including on trances to through lands or location of median openings that first have written approval from the Department of Highways and the Bureau of Public Roads before executing any work.

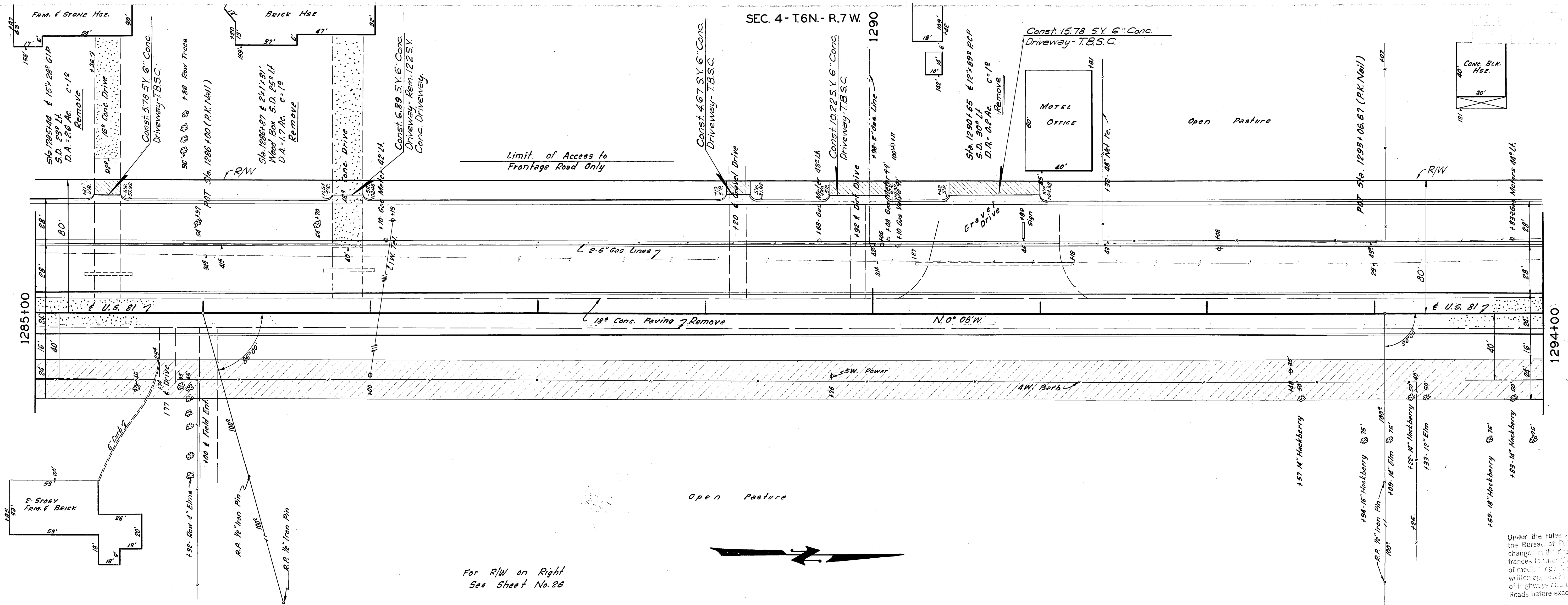








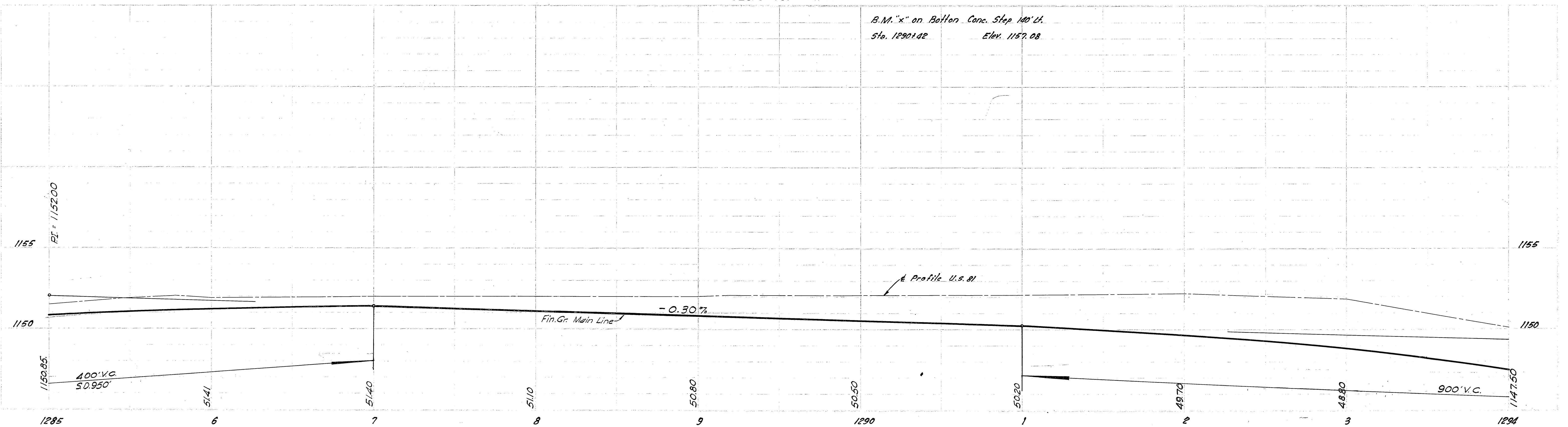




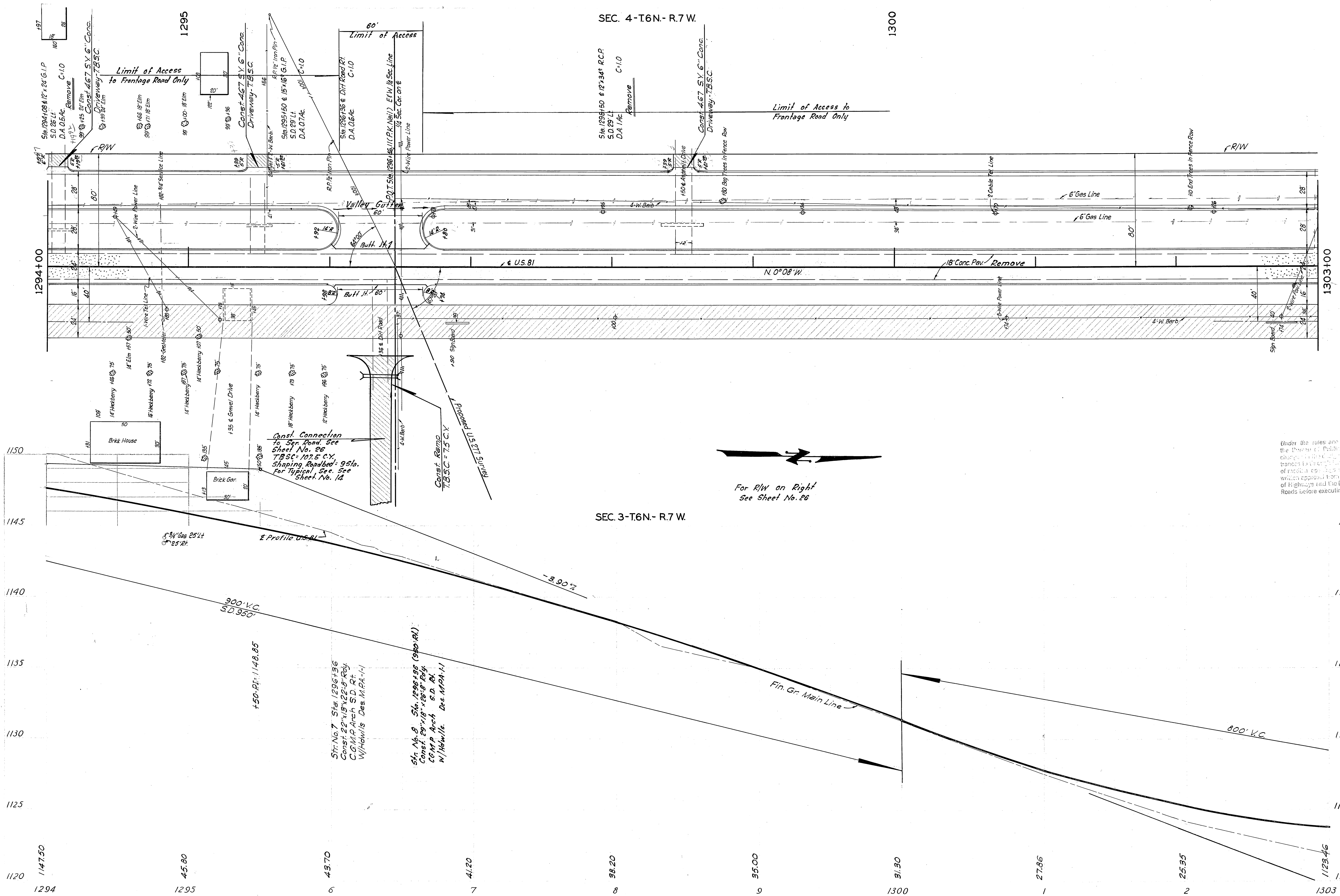
Under the rules and regulations of the Bureau of Public Roads, any changes in the location of entrances to the highway or location of median openings shall require written approval of the Department of Highways and the Bureau of Public Roads before executing any work.

### SEC. 3-T6N-R.7W.

B.M. "x" on Bottom Conc. Step 140' Lt.  
Sta. 1290+42 Elev. 1157.08







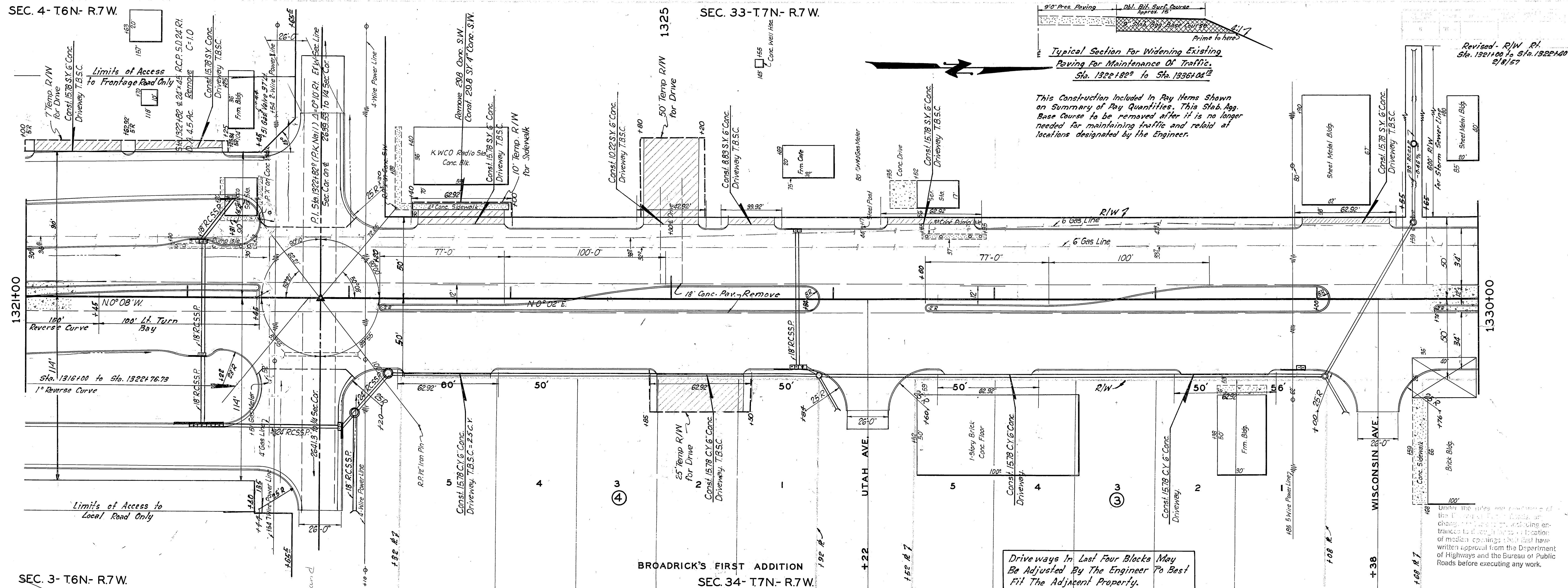
Under the rules and regulations of the Bureau of Public Roads, any changes in the location of any existing or proposed highway or location of median, shoulders, or other features which are not shown on the plans, must be approved by the Bureau of Public Roads before executing any work.



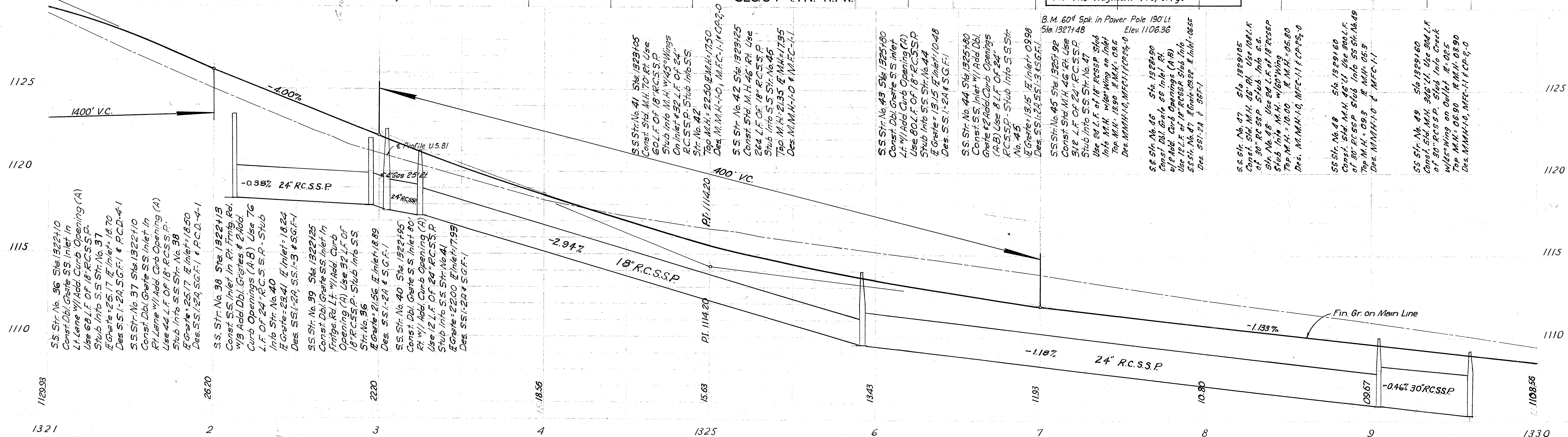




SEC. 4- T.6 N.- R.7 W.



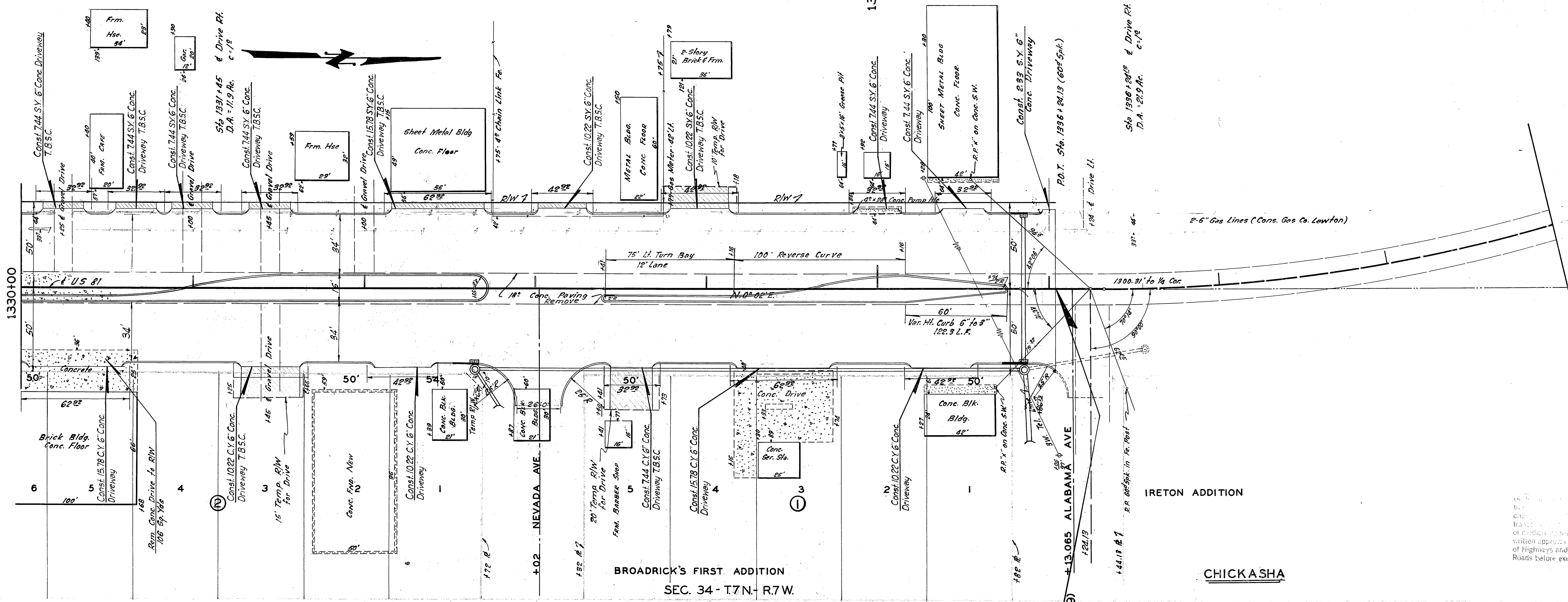
SEC. 3- T.6N- R.7 W.





SEC. 33- T7N.- R7W.

1335

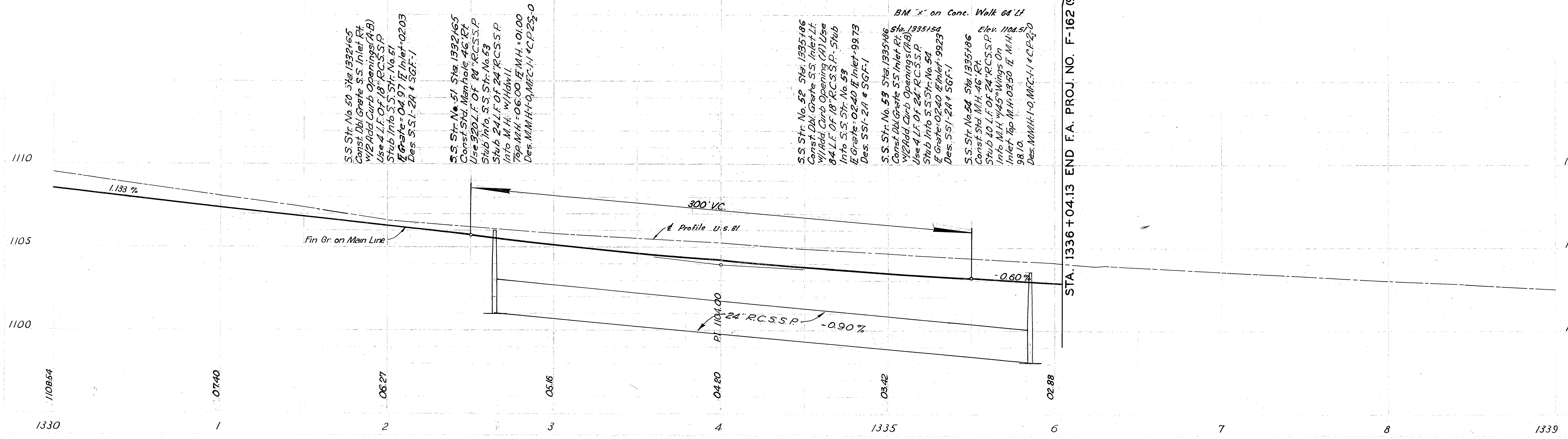


BROADRICK'S FIRST ADDITION  
SEC. 34- T7N.- R7W.

CHICKASHA

IRETON ADDITION

THESE PLANS HAVE BEEN PREPARED BY THE ENGINEER AND THE SURVEYOR AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER AND THE SURVEYOR.



S.S. Str. No. 50 Sta. 1332+65  
Const. Dbl. Gate S.S. Inlet Rt.  
W/2 Add. Curb Opening (Rt.)  
Use 4 L.F. OF 18" R.C.S.S.P.  
Stub Into S.S. Str. No. 51  
If Gate = 04.97 IE Inlet = 02.03  
Des. S.S. 1-2A + SGF-1

S.S. Str. No. 51 Sta. 1332+65  
Const. Std. Manhole 48" Rt.  
Use 220 L.F. OF 24" R.C.S.S.P.  
Stub Into S.S. Str. No. 53  
Stub 24 L.F. OF 24" R.C.S.S.P.  
Into M.H. w/ Hdw. L.  
Top M.H. = 06.00 IE M.H. = 01.00  
Des. M.M.H. = 0, M.F.C. = H 40.223-0

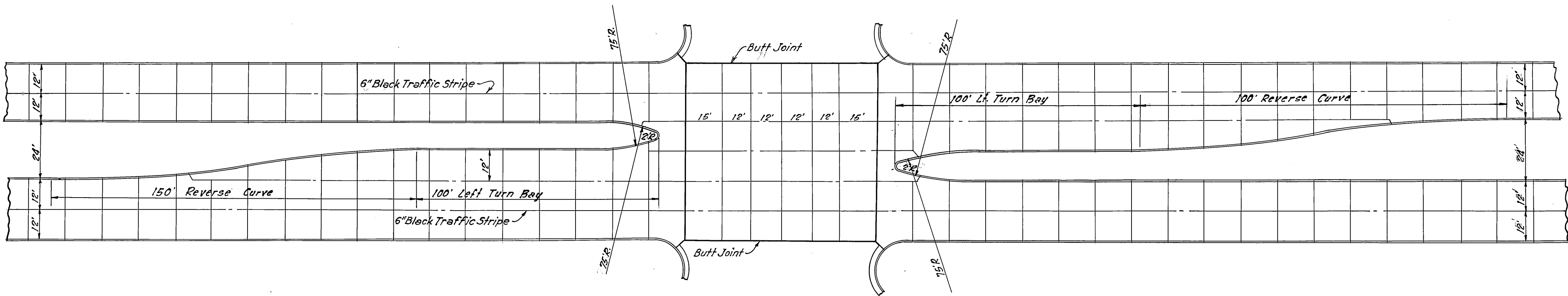
S.S. Str. No. 52 Sta. 1335+86  
Const. Dbl. Gate S.S. Inlet Lt.  
W/2 Add. Curb Opening (Lt.)  
Use 8 L.F. OF 18" R.C.S.S.P. - Stub  
Into S.S. Str. No. 53  
If Gate = 02.40 IE Inlet = 99.73  
Des. S.S. 1-2A + SGF-1

S.S. Str. No. 53 Sta. 1335+86  
Const. Dbl. Gate S.S. Inlet Rt.  
W/2 Add. Curb Opening (Rt.)  
Use 4 L.F. OF 24" R.C.S.S.P.  
Stub Into S.S. Str. No. 54  
If Gate = 02.40 IE Inlet = 99.23  
Des. S.S. 1-2A + SGF-1

S.S. Str. No. 54 Sta. 1335+86  
Const. Std. M.H. 48" Rt.  
Stub 40 L.F. OF 24" R.C.S.S.P.  
Into M.H. w/ 45° Wings On  
Inlet Top M.H. = 03.50 IE M.H. =  
98.10  
Des. M.M.H. = 1-0, M.F.C. = H 40.223-0

JOINT LAYOUT

PROJECT NO.	DATE	PROJECT	SCALE	DATE
6	10/1/84			



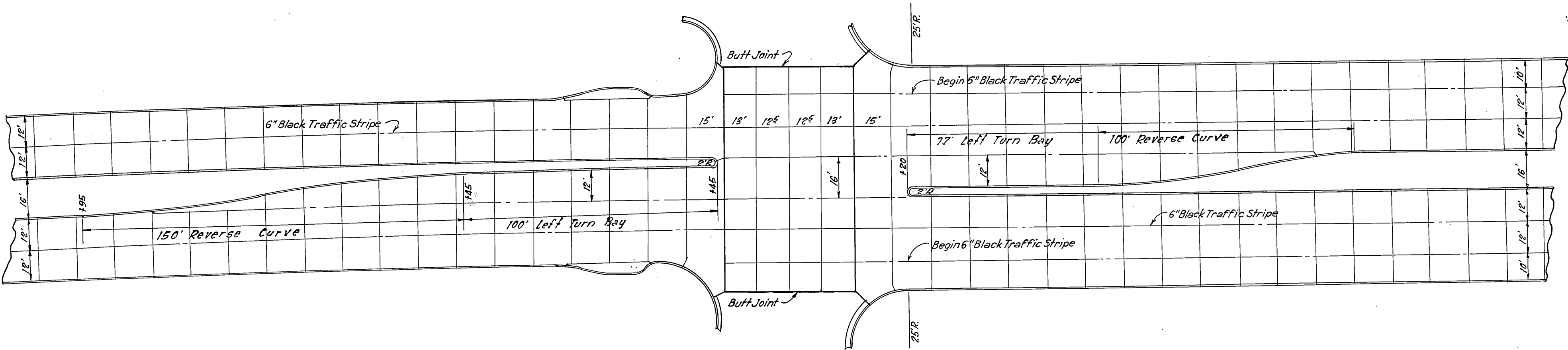
STA. 1217+14.1 & STA. 1270+06.11

- LEGEND -

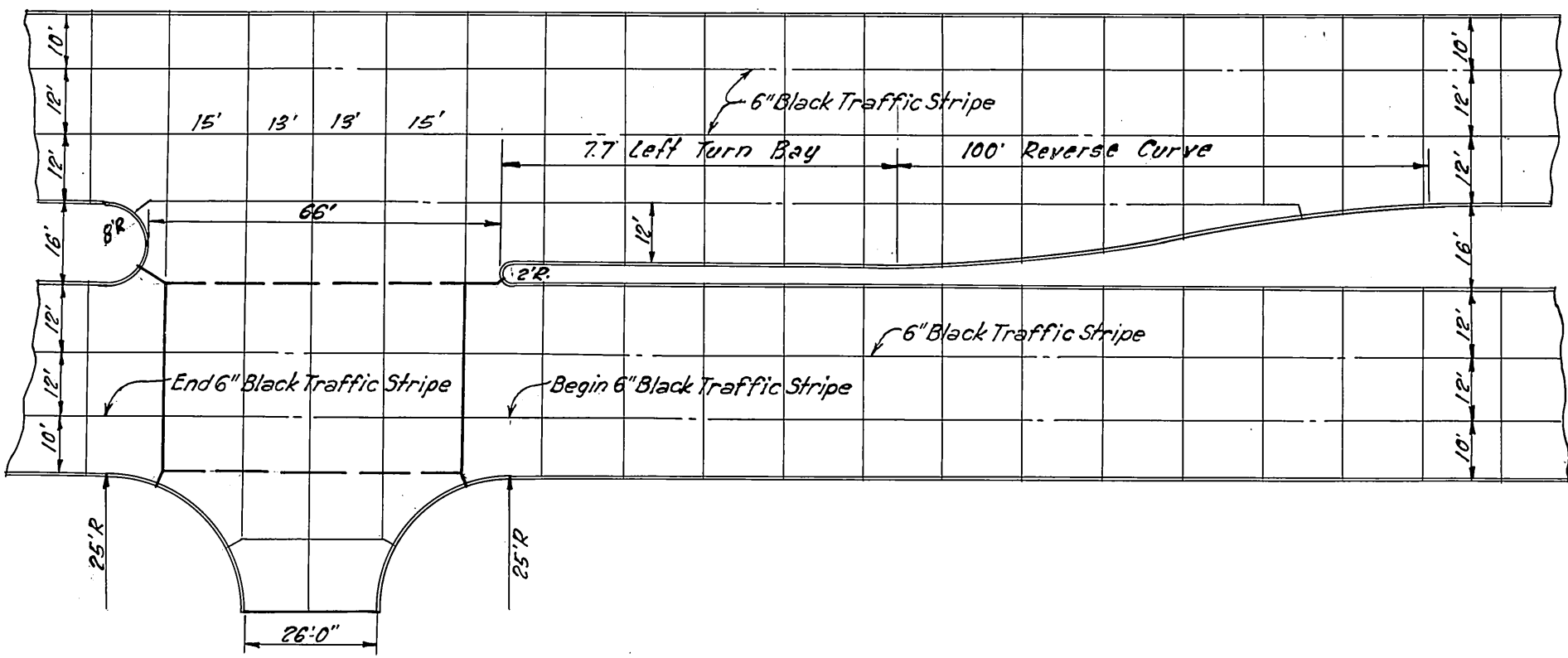
- Longitudinal Joint
- Expansion Joint
- Contraction Joint
- Tongue & Groove Joint

NOTE:

1. All Dimensions and Radii Shown are to Face of Curb.
2. All Residential Drives are Std. 8' Flared Concrete Driveways Constructed 2.5' Back of Curb Unless Otherwise Noted.



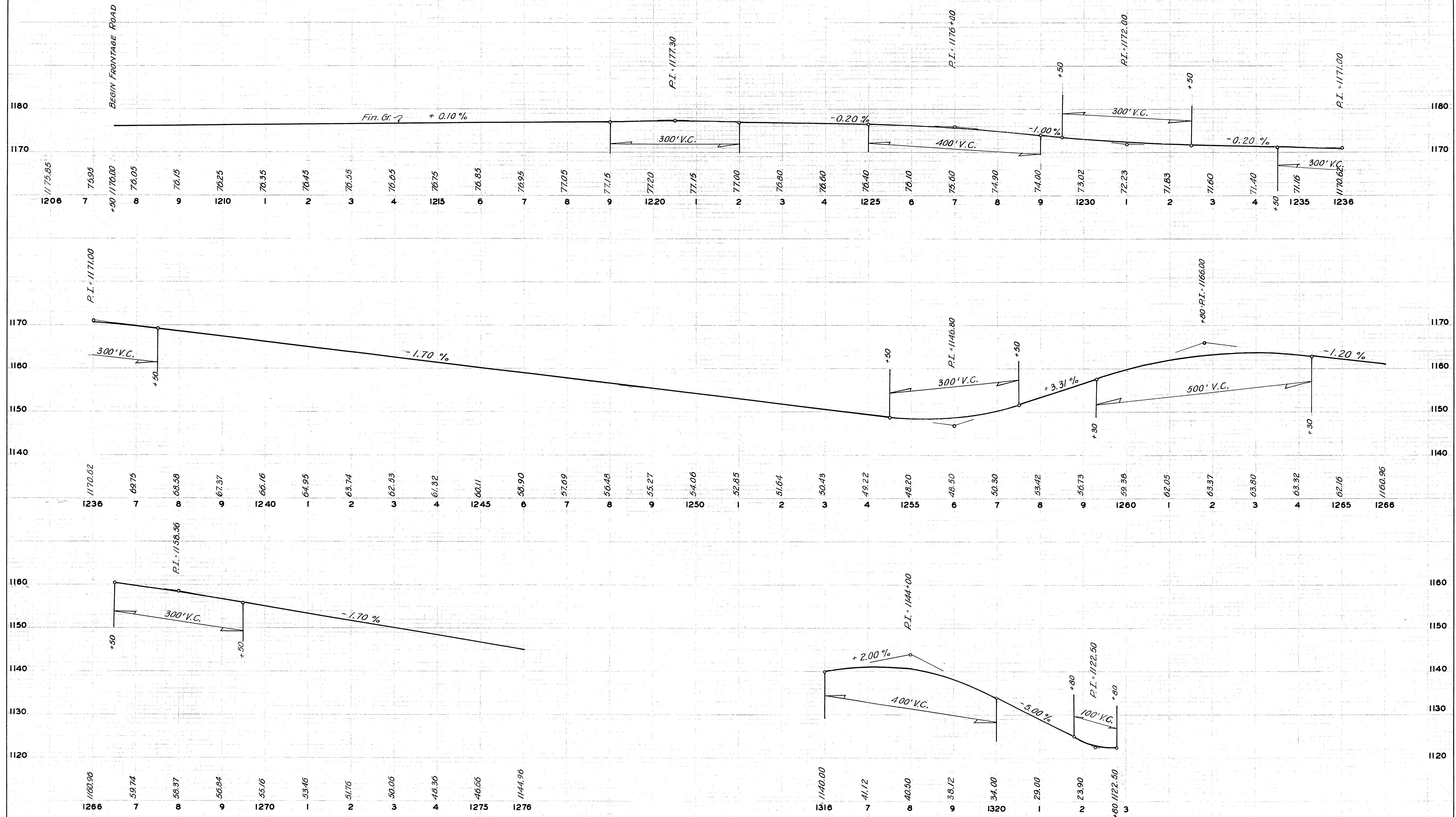
STA. 1322+82



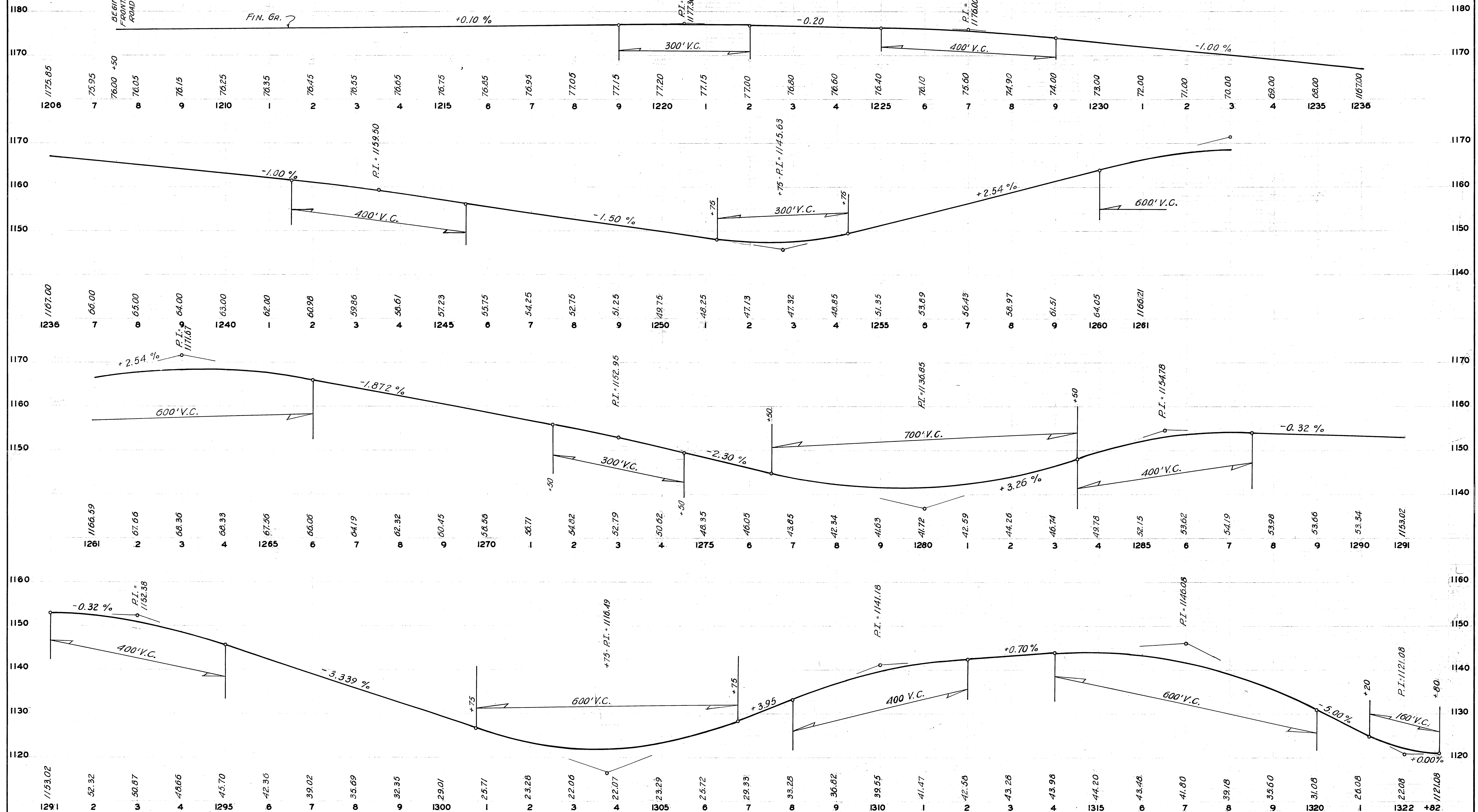
STA. 1326+22 - STA. 1329+38  
& STA. 1333+02



# FRONTAGE ROAD RT.



# FRONTAGE ROAD LT.



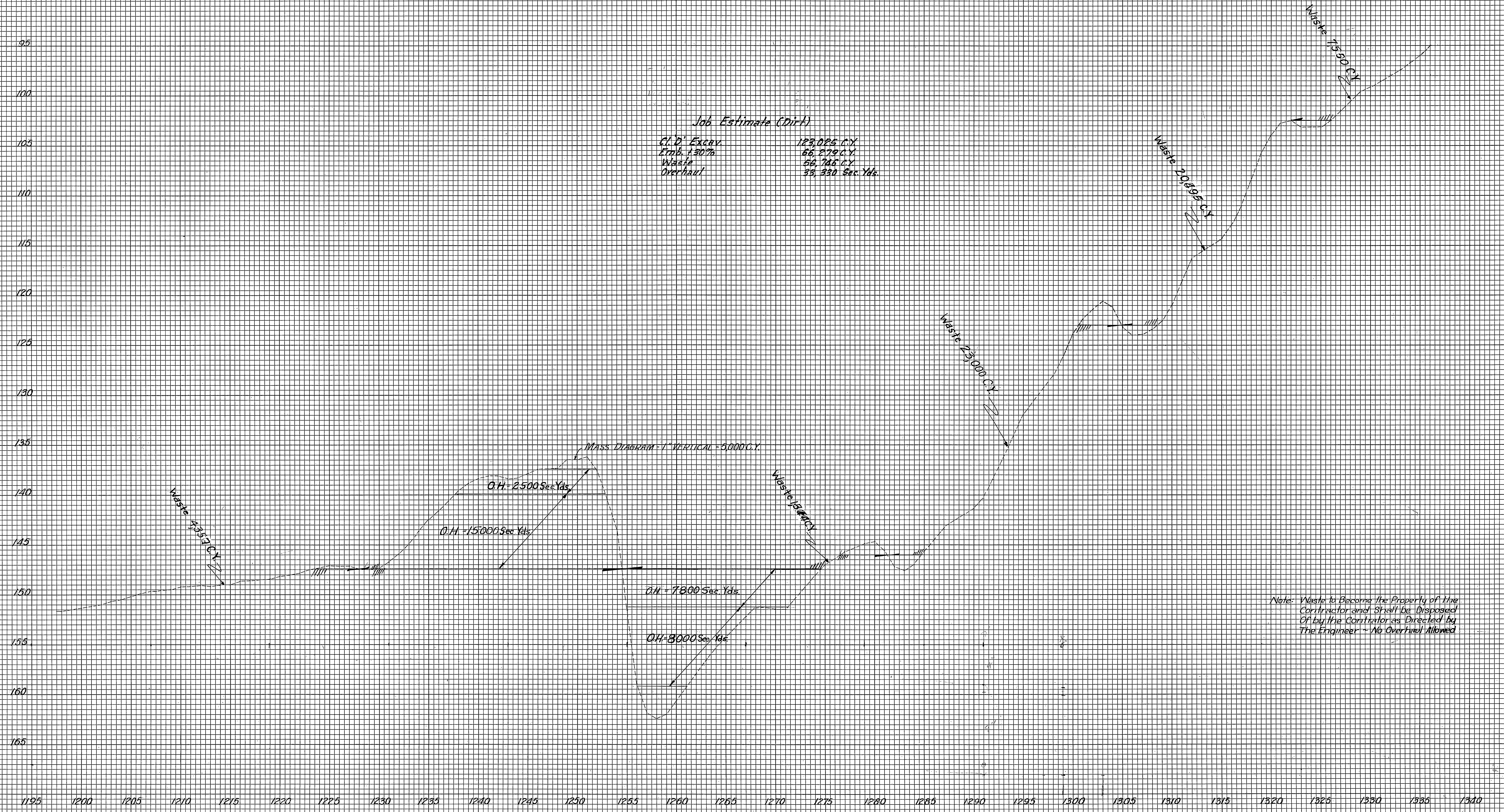


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

# MASS DIAGRAM

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	AREAS CHECKED		





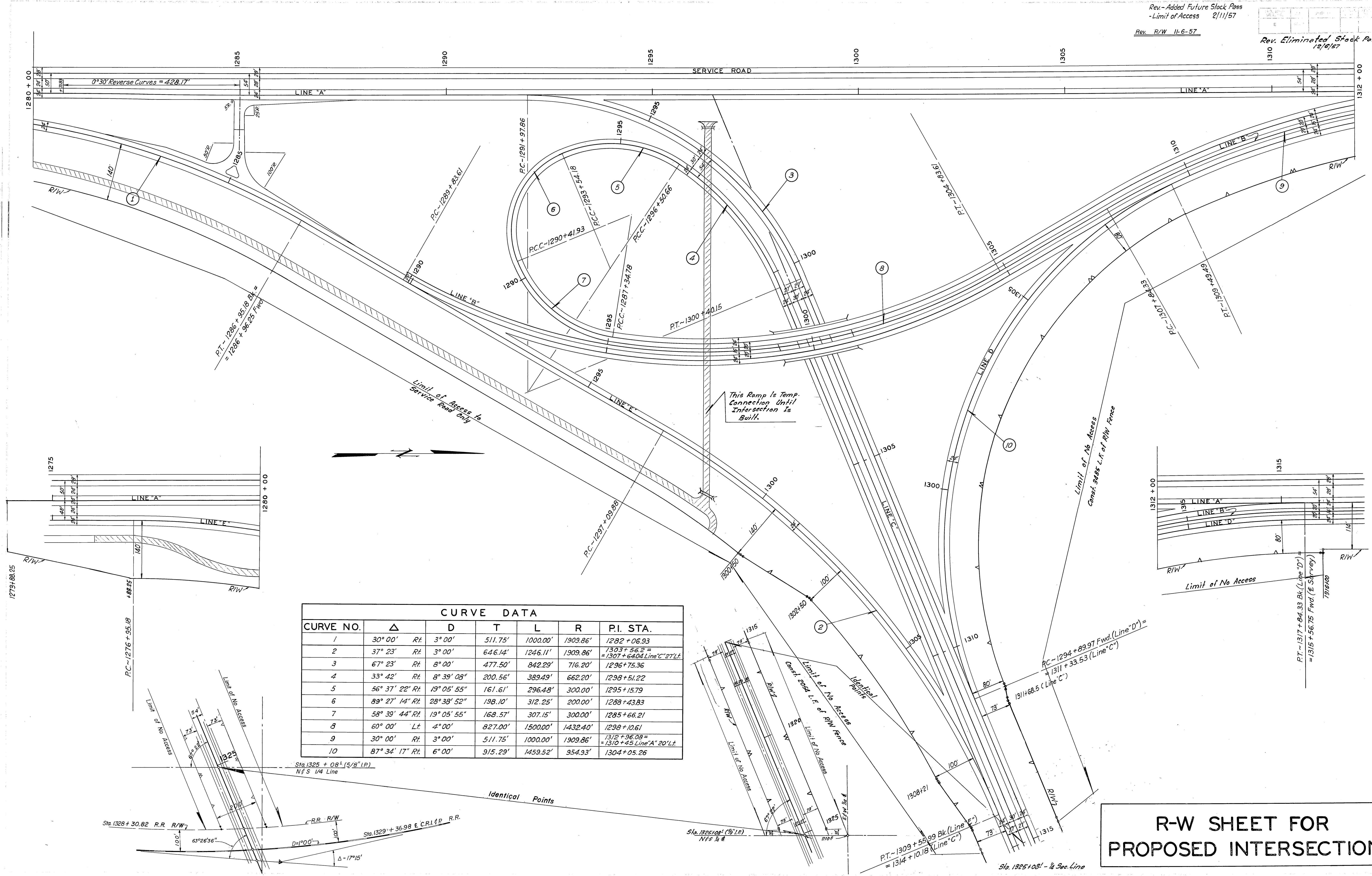
PLANT	BY	DATE
SURVEYED		
PLOTTED		
REMARKS CHECKED		
BY: OF MAN CHECKED		



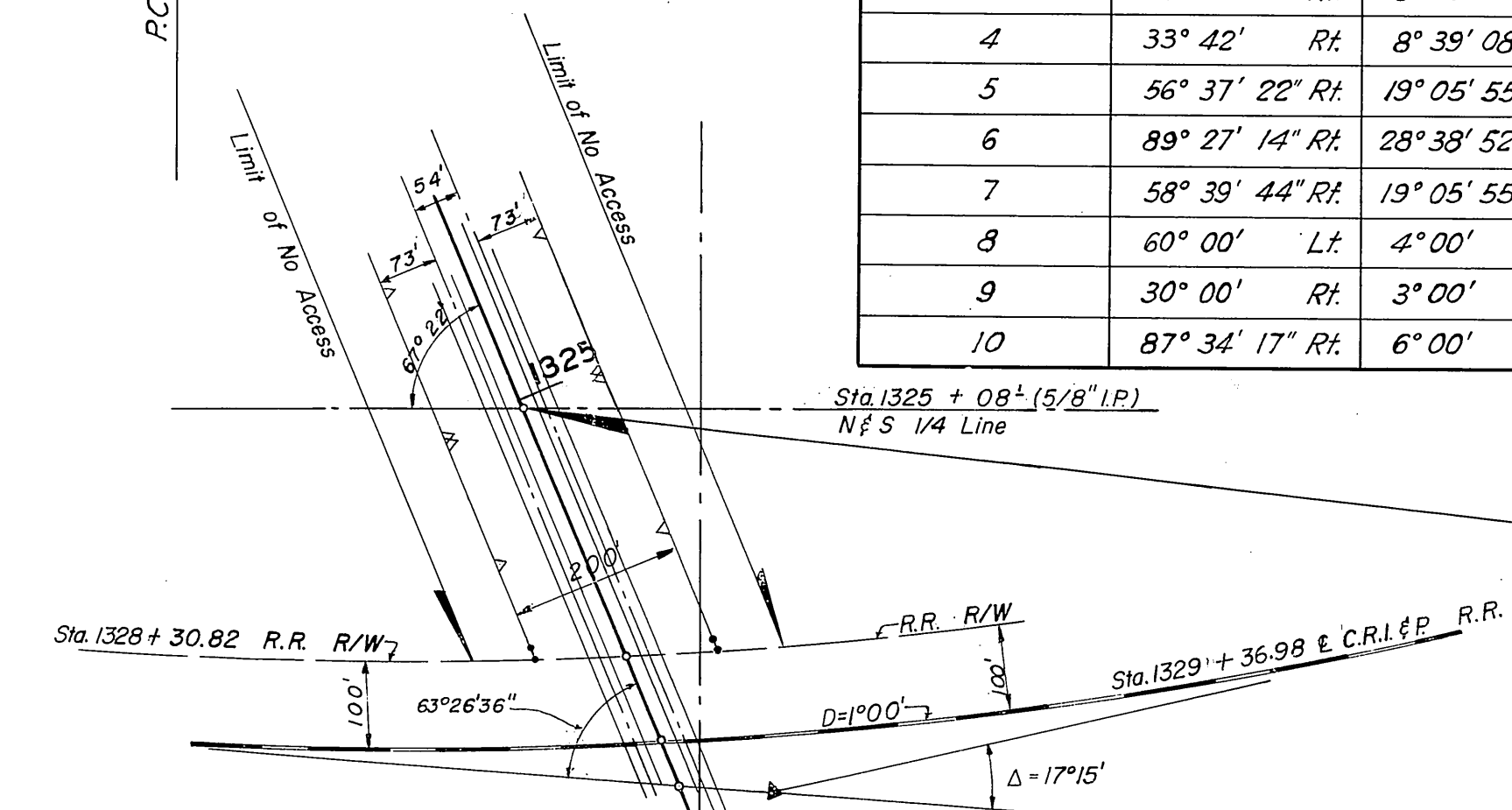
Rev. Added Future Stock Pass  
- Limit of Access 2/11/57

Rev. R/W 11-6-57

Rev. Eliminated Stock Pass  
12/6/57



CURVE DATA						
CURVE NO.	Δ	D	T	L	R	P.I. STA.
1	30° 00'	Rt.	3° 00'	511.75'	1000.00'	1282 + 06.93
2	37° 23'	Rt.	3° 00'	646.14'	1246.11'	1303 + 56.2 = 1307 + 64.04 Line 'C' 27' Lt.
3	67° 23'	Rt.	8° 00'	477.50'	842.29'	716.20' 1296 + 75.36
4	33° 42'	Rt.	8° 39' 08"	200.56'	389.49'	662.20' 1298 + 51.22
5	56° 37' 22"	Rt.	19° 05' 55"	161.61'	296.48'	300.00' 1295 + 15.79
6	89° 27' 14"	Rt.	28° 38' 52"	198.10'	312.25'	200.00' 1288 + 43.83
7	58° 39' 44"	Rt.	19° 05' 55"	168.57'	307.15'	300.00' 1285 + 66.21
8	60° 00'	Lt.	4° 00'	827.00'	1500.00'	1432.40' 1298 + 10.61
9	30° 00'	Rt.	3° 00'	511.75'	1000.00'	1312 + 96.08 = 1310 + 45 Line 'A' 20' Lt.
10	87° 34' 17"	Rt.	6° 00'	915.29'	1459.52'	954.93' 1304 + 05.26



R-W SHEET FOR  
PROPOSED INTERSECTION