

# COLORADO DEPARTMENT OF HIGHWAYS

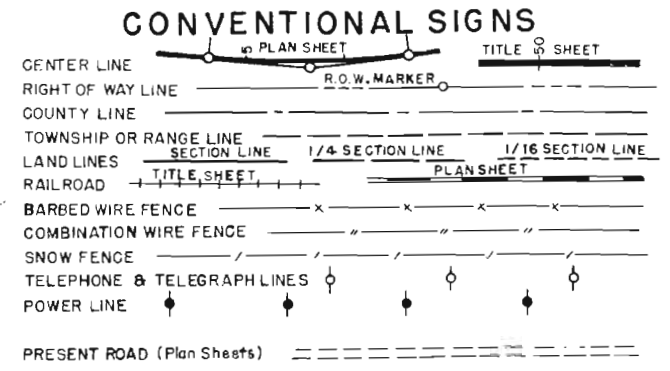
## PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. I-25-2(32)161 STATE HIGHWAY NO. 1 DOUGLAS & EL PASO COUNTIES

FEDERAL ROAD REGION NO.	DIVISION	PROJ NO
9	COLORADO	I-25-2(32)161

Rev. Add Sheet 12a 7-9-59 G.S. 25

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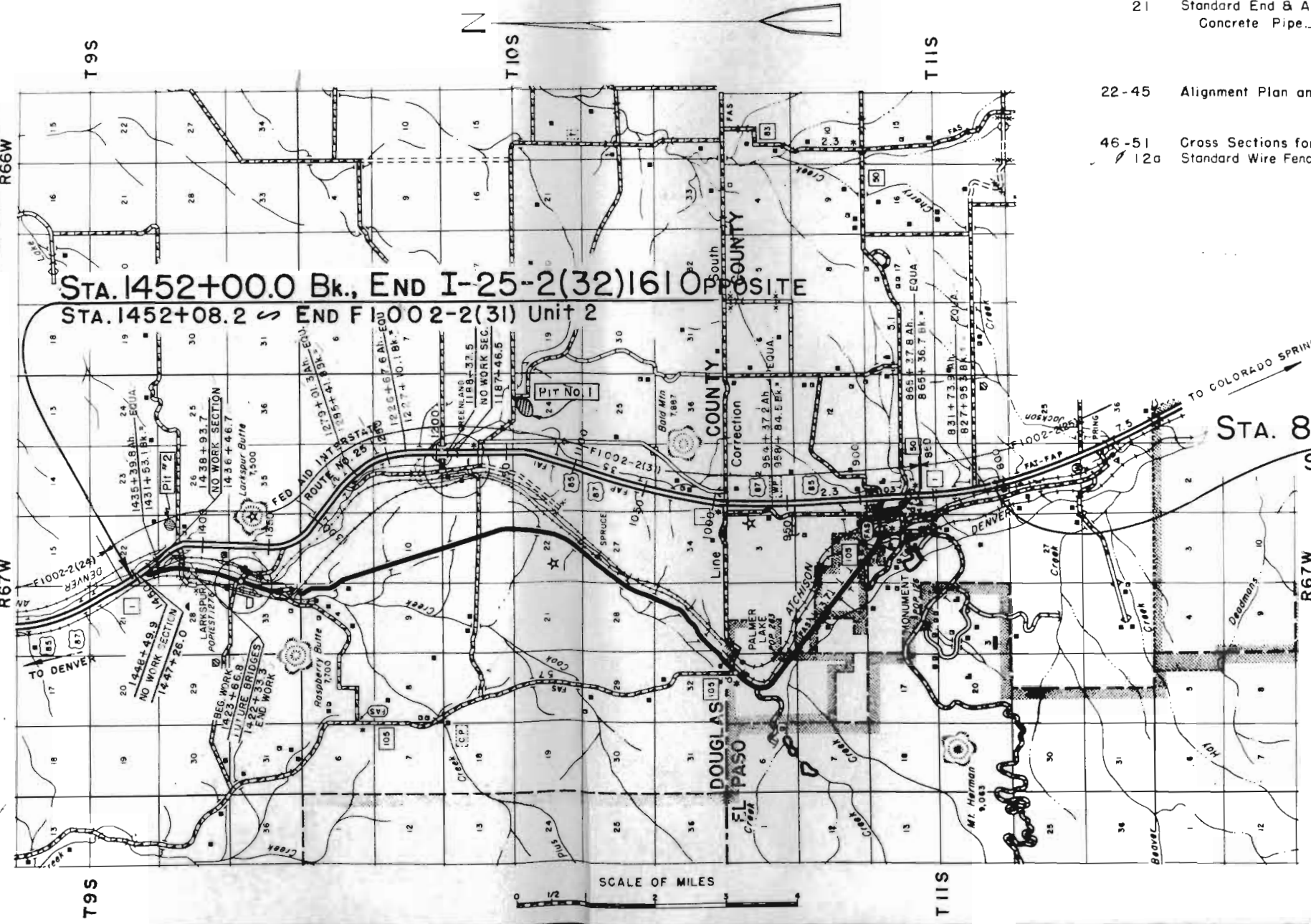


### TABULATION OF LENGTH & DESIGN DATA (LENGTH BASED ON EAST LANE)

STATION	DESCRIPTION	ROADWAY		NO WORK SECTION
		LIN. FT.	LIN. FT.	
812+61.5	BEG. I-25-2(32)161-812+61.5 on F1002-2(25)	1,533.8		
827+95.3 Bk. 831+73.9 Ah.	END F1002-2(25) EQUATION BEG. F1002-2(31) Unit 2	3,362.8		
865+36.7 Bk. 865+37.8 Ah.	EQUATION	9,346.7		
956+64.5 Bk. 954+37.2 Ah.	EQUATION	2,330.93		
1187+46.5 1188+33.5	END WORK EAST PLUM CREEK BEG. WORK	3,876.6	67.0	
1227+10.1 Bk. 1226+67.6 Ah.	EQUATION	5,874.2		
1285+41.8 Bk. 1279+01.3 Ah.	EQUATION	14,332.0		
1422+33.3 1423+66.8	END WORK FUTURE BRIDGES BEG. WORK	786.3	133.5	
1431+53.1 Bk. 1435+39.8 Ah.	EQUATION	106.9		
1436+46.7 1438+93.7	END WORK D. & R.G.W., R.R. BEG. WORK	832.3	247.0	
1447+26.0 1448+49.9	END WORK EAST PLUM CREEK BEG. WORK	350.1	123.9	
1452+00.0 Bk.	END I-25-2(32)161 Opposite Sta. 1452+08.2 END F1002-2(31) Unit 2			
<b>TOTAL</b>		<b>63,711.0</b>	<b>591.4</b>	
<b>SUMMARY</b>		<b>LIN. FT.</b>	<b>MILES</b>	
ROADWAY (NET LENGTH)		63,711.0	12.066	
NO WORK SECTIONS		591.4	0.112	
I-25-2(32)161 (GROSS LENGTH)		64,302.4	12.178	
<b>DESIGN DATA</b>				
MAXIMUM GRADE		5.05%		
MAXIMUM DEGREE OF CURVE		2°00'		
MINIMUM N.P.S.D. - Horizontal		700'		
MINIMUM N.P.S.D. - Vertical		600'		
MAXIMUM DESIGN SPEED		70 M.P.H.		

SCALES OF ORIGINAL DRAWINGS  
ON PLAN 1 IN = 100 FT  
ON PROFILE 1 IN = 100 FT HORIZONTAL  
1 IN = 10 FT VERTICAL

GROSS LENGTH OF PROJECT = 64,302.4 LIN. FT. = 12.178 MILES  
NET LENGTH OF PROJECT = 63,711.0 LIN. FT. = 12.066 MILES



SEE SPECIAL PROVISIONS FOR NOTICE T  
STA. 812+61.5, Beg. I-25-2(32)161  
STA. 812+61.5, on F1002-2(25)

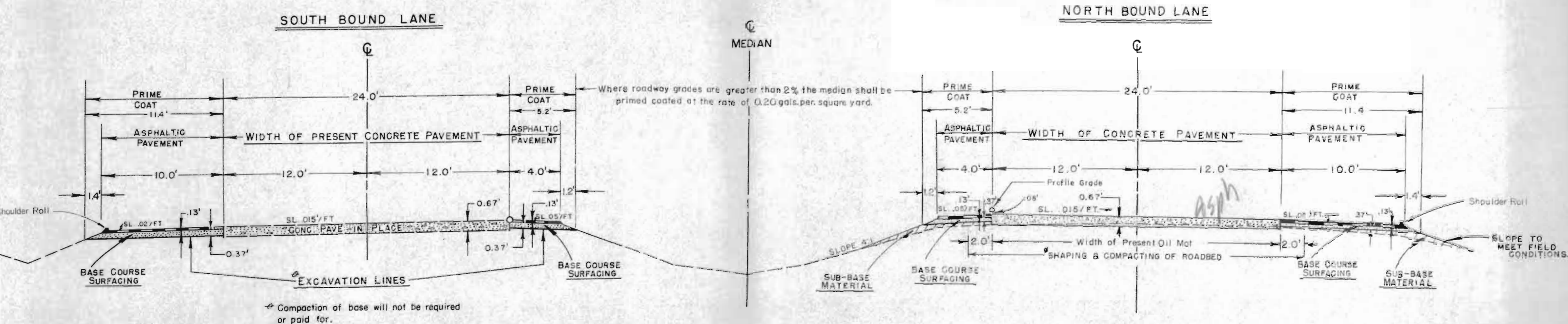
COLORADO  
DEPARTMENT OF HIGHWAYS

APPROVED:  
*[Signature]*  
CHIEF ENGINEER

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED:  
\_\_\_\_\_  
DIVISION ENGINEER

## TYPICAL CROSS SECTION OF IMPROVEMENT



↪ Compaction of base will not be required or paid for.

**NOTE:**  
Where concrete pavement is in place the present shoulders shall be excavated as shown above. Removed material to be used to widen fill slopes.

Approximate 0.50' compacted thickness of Asphaltic Pavement and Surfacing shall be placed on the Shoulders at the following rates per 100 lin. ft.

\* Cement Included

	S.B. LANE	N.B. LANE	TONS
PLANT MIXED ASPH. SURF.	13	13	
BASE COURSE SURFACING	38	38	

**NOTE:**  
Sub-Base material at locations designated in Sub-Base material tabulation. Estimated quantities involved in this operation are tabulated in the Sub-Base Material Plan.

↪ Except between Sta. 950+00 and Sta. 964+00.

### GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado Department of Highways, adopted January 1, 1958.

All quantities on preliminary plans are to be considered approximate only.

For preliminary plan quantities of Asphaltic Road Materials the following rates of application were used.

PRIME COAT MC at 0.40 Gals. per Sq. Yd.  
PAVING ASPHALT (85 - 100 PENETRATION) at 6.48 Lb. per Sq. Yd. per Inch  
PRIME COAT MC MEDIAN at 0.20 Gals. per Sq. Yd.  
PROCESS OIL SC at 0.61 Gals. per Sq. Yd. per Inch (Gross over)

Rate of application and grade of Asphaltic Material shall be as determined by the Engineer at time of application.

Grading will be paid for between Sta. 950+00 and 964+00, Northbound Lane Only.

#### LOCATIONS FOR DISPOSAL OF PRESENT OIL MAT

STA.	SIDE	DESCRIPTION
875+ - 877+	East	Wash in Borrow Pit
919+ - 922+	West	Outlet Ditch
950+	West	Outlet Ditch
957+ - 970+	East	Future Frontage Road Area
1017+	East	Fill Old Channel
1210+ - 1260+	West	Shoulder Washes
1241+	East	Wash in Backslope
1242+ - 1243+	East	Wash in Borrow Pit
1251+ - 1254+	West	Fill Old Channel
1252+ - 1254+	East	Wash in Borrow Pit
1271+ - 1272+	East	Wash in Backslope
1274+	East	Wash in Backslope
1283+ - 1286+	West	Fill Old Channel
1309+ - 1320+	West	Shoulder Washes
1318+	West	Outlet Ditch
1339+	West	Outlet Ditch
1355+ - 1356+	West	Wash in Borrow Pit
1357+ - 1359+	West	Wash
1362+	West	Outlet of Cattle Pass
1378+ - 1380+	West	Wash in Borrow Pit
1383+	West	Wash
1386+ - 1388+	West	Wash in Borrow Pit
1397+ - 1398+	West	Wash in Borrow Pit
1398+ - 1399+	East	Wash in Borrow Pit
1416+ - 1417+	East	Disposal Area
1416+ - 1422+	West	Shoulder Washes
1420+ - 1422+	West	Outlet Ditch
1430+	West	Wash in Borrow Pit
1439+ - 1447+	West	Shoulder Washes

Disposal Quantity Estimated at 173,100 Sq. Yds. = 14,425 Cu. Yds.

#### SUMMARY OF EARTHWORK QUANTITIES

<b>EXCAVATION</b>	
From Line Sheets (Southbound)	12,386
From Line Sheets (Northbound)	5,854
Est. for Subsidence	1,824
List of Structures as Excavation	23,040
List of Structures as Embankment	15
Est. of Cut Slope Treatment	100
Est. for Covering Ends of Culverts	50
<b>TOTAL</b>	<b>Cu. Yd. 43,269</b>
<b>STA. YD. OVERHAUL</b>	
From Line Sheets	200,640
Est. for Subsidence	20,064
Est. for Structure Backfill	3,839
<b>TOTAL</b>	<b>Sta. Yd. 224,543</b>
<b>YD. MI. OVERHAUL</b>	
From Line Sheets	100
Est. for Subsidence	10
Est. for Structure Backfill	1,642
<b>TOTAL</b>	<b>Yd. Mi. 1,752</b>
<b>UNCLASSIFIED DITCH EXCAVATION</b>	
Intercepting Ditches	0
From List of Structures	39
<b>TOTAL</b>	<b>Cu. Yd. 39</b>
<b>COMPACTION</b>	
Base of Cuts & Fills	2,200
<b>TOTAL</b>	<b>Cu. Yd. 2,200</b>

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	ITEMS	UNITS	ROADWAY
11	Removal of 5 Structures	L.S.	•
11	Removing Concrete Pavement	Sq. Yd.	50
11	Reset Guard Posts	Each	780
11	Reset Inlet Grating & Frame	Each	3
11	Removal of Asphaltic Pavement	Sq. Yd.	173,100
13	Unclassified Excavation	Cu. Yd.	44,000
13	Unclassified Ditch Excavation	Cu. Yd.	100
13	Stripping	Cu. Yd.	2,000
14	Unclassified Structural Excavation — Miscellaneous	Cu. Yd.	690
16	Structure Backfill (Class 1)	Cu. Yd.	350
17	Compaction (Modified)	Cu. Yd.	2,200
17	Wetting	M Gal.	2,440
18	Station Yard Overhaul	Sta. Yd.	225,000
18	Yard Mile Overhaul	Yd. Mi.	1,800
18	Ton Mile Overhaul	Ton Mi.	573,200
23	Sub-Base Material (Class 2)	Ton	82,600
26	Gravel or Crushed Rock Surfacing (Grading D)	Ton	49,300
29	Asphalt (85 to 100 Penetration)	Ton	1,260
30	Asphaltic Road Material SC (Process)	Gal.	4,300
30	Asphaltic Road Material MC (Prime)	Gal.	116,000
31	Road Mix Asphaltic Processing	Sq. Yd.	2,340
32	Plant Mixed Asphaltic Surfacing	Ton	19,050
32	Plant Mixed Asphaltic Shoulder Roll	Ton	240
32	Plant Mixed Asphaltic Ditch Paving	Ton	2,260
37	Concrete Pavement ( 8 inches Thick)	Sq. Yd.	174,880
46	Class "A" Concrete	Cu. Yd.	306
47	Reinforcing Steel	Lb.	24,500
52	24" Reinforced Concrete Culvert Pipe (Class III)	Lin. Ft.	354
53	8" Corrugated Metal Culvert Pipe	Lin. Ft.	776
65	Concrete Slope & Ditch Paving	Cu. Yd.	270
75	Metal Plate Guard Fence (Beam Type)	Lin. Ft.	50
76	Combination Wire Fence with Metal Posts	Lin. Ft.	300
84	Concrete Combination Curb & Gutter (Type I)	Lin. Ft.	540
93	8" Metal Embankment Protectors (Type I)	Each	26
119	Shaping & Compacting Roadbed	Mile	11.8
152	24" Flared End Sections for Reinforced Concrete Culvert Pipe	Each	3
81	Project Markers	Each	1
	STATE FORCES	L.S.	•
	Striping Entire Project ( Non-Fed. Aid)	Each	4
	Cleaning Culverts	Each	4
	NON - FED. AID		

Rev. Conc., Steel & add Price 7-9-59 B.S.  
 Rev. IO-1-59, G.S. - Added Concrete Comb. Curb. B  
 Gutter (Type I)  
 Rev. IO-22-59, Embankment Protector & Drain Pipe-G.S.

FEDERAL ROAD DIVISION NO	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	I-25-2(32)161	3	



# LIST OF STRUCTURE QUANTITIES

Rev 1275+00 & 1276+00 7-9-59 GS

Rev. 10-1-59, G.S.-Added Conc. Comb. Curb & Gutter (Type I)  
 Rev. 10-22-59, Embank. Protector-G.S. & C.M.P.

DISTRICT	PROJ NO	SHEET NO	TOTAL SHEETS
COLORADO	I-25-2(32)161	6	

LOCATION	MISCELLANEOUS	REMOVE STRUCTURE NO.	EXCAVATION CUBIC YARDS			UNCLASSIFIED STRUCTURAL EXCAVATION (MISCELLANEOUS) CUBIC YARDS	STRUCTURE BACKFILL CUBIC YARDS	GRAVEL OR CRUSHED ROCK SURFACING TONS	CONCRETE SLOPE & DITCH PAVING CU YD CL X	CONCRETE REINFORCING STEEL	METAL EMBANKMENT PROTECTOR TYPE I Each	CORRUGATED METAL CULVERT PIPE LINEAR FEET	REINFORCED CONCRETE CULVERT PIPE (Class III)		FLARED END SECTIONS FOR RCP	
			UNCL.	EMB.	TOTAL								24"	24"	Each	Each
803+ 810+ 812+61.5 Entire Project	522 Tons Sub-Base, 1170 Sq Yds. Road Mix Asphaltic Processing 1- Project Marker (State Forces) 780 Reset Guard Posts		420					238								
▲ Monument Interchange					5	5		1.2		4		12 26 58 58				
858+ to 860+ 910+00 915+75	540 Lin.Ft. Concrete Comb. Curb & Gutter (Type I)				1	1		0.3		1		4				
922+00 933+	Cleaning Culvert (Non.-Fed Aid) Cleaning Culvert (Non.-Fed Aid)		5									2				
934+00 945+50					1	1		0.3		1		4				
950+00 957+					1	1		0.3		1		4				
1015+50 1015+74.5	Reset Inlet Grating & Frame				113	20		2.04 0.72	195				80			
1018+00 1051+85 1052+00	Reset Inlet Grating & Frame				1	1		0.3		1	26					
1112+65 1113+00	Reset Inlet Grating & Frame				95	24		2.04 0.47	195				70			
1196+ 1241+ 1242+ 1246+00	50 Lin. ft. Metal Plate Guard Fence (Beam Type)				92	20		1.92 0.47	185				72			
1249+00 1255+00					20			43								
1261+00 1266+00 1273+00					1	1		0.3		1	4					
1275+00 1276+00	43 Sq. Yds. Removing Concrete Pavement 300 lin. ft. of Combination Wire Fence		100		67	20							78	1		
1276+00			13,900		121	216		329	298.04	23,923						

# LIST OF STRUCTURE QUANTITIES

Rev. Total Conc. & Steel 7-9-59 G.S.  
Rev. 10-22-59, Embank. Protector-G.S.  
B. C. M. P.

FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	1-25-2(32)161	7	

LOCATION	MISCELLANEOUS	REMOVE STRUCTURE	EXCAVATION			UNCLASSIFIED STRUCTURAL EXCAVATION (MISCELLANEOUS) CUBIC YARDS	STRUCTURE BACKFILL CUBIC YARDS	GRAVEL OR CRUSHED ROCK SURFACING TONS	CONCRETE SLOPE & DITCH PAVING CUBIC YARDS	CONCRETE CUBIC YARDS	REINFORCING STEEL LBS	METAL EMBANKMENT PROTECTOR TYPE I Each	CORRUGATED METAL CULVERT PIPE		REINFORCED CONCRETE CULVERT PIPE (Class III) Lin. ft.	FLARED END SECTIONS FOR RCCP Each								
			CUBIC YARDS										CL. 1	TONS			Cu. Yd.	CL. A	LBS	8"	8"	LINEAR FEET	24"	24"
			NO.	PRICE	AMT.																			
1285+00 Bk. 1285+00 Bk.					3	1		0.3			1		64											
1296+ 1305+ 1310+00 1314+ 1342+			2,000		5	17		34																
1316+00 1318+00					3	2		0.3			1		74											
1355+00 1355+ 1357+					5	9		17																
1361+00 1362+00					10			43																
1362+40 1375+ 1380+ 1381+ 1387	Cleaning Culvert (Non-Fed. Aid)		10		5	5		0.6			2		84 42		50	2								
1386+00 1391+00					10	15		107																
1392+00 1399+90					54			0.06																
1400+10 1409+00 1421+00	Cleaning Culvert (Non-Fed. Aid)				1,200																			
1452+ 1411+	522 Tons Sub-Base, 1170 Sq.Yds. Road Mix Asphaltic Surfacing				1	1		0.3			1		4											
					1	1		0.3			1		28											
					6			11																
					4	4		0.6			2		50 40											
					1	1		0.3			1		22											
					1	1		0.3			1		40											
					420			229																
<b>TOTALS</b>					5	22,040	15	39	690		349		796	262.80	305.78	24,498	26	776		354	3			

Δ Location to be determined during construction by the Engineer.

**NOTE:**

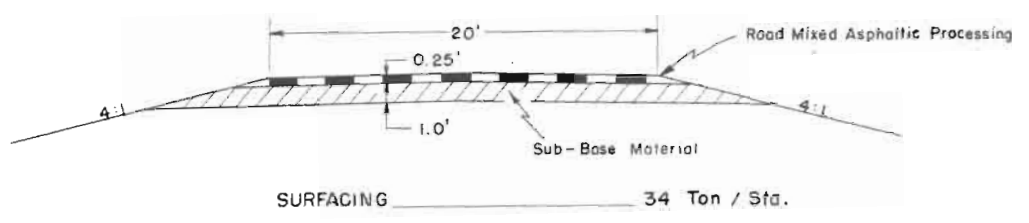
Alignment and Grades shown are subject to modification during construction after approval by the Denver Office.

Soil data shown on the Plans is obtained from best available testing Laboratory information. This information is shown for convenience of the Contractor and the Department does not guarantee the accuracy of these tests. If materials not conforming to the data on the Plans are encountered during construction the grading Plan shown on Plans will be modified where necessary to secure dense, stable embankments.

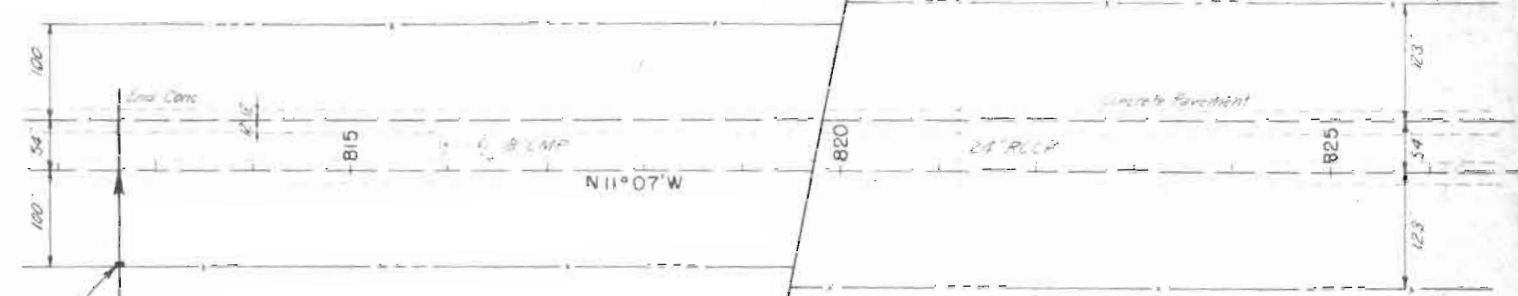
FED. ROAD DIST. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	I-25-2(32)161	22	

SW 1/4 Sec. 14

TYPICAL SECTION FOR CROSS OVER  
Sta. 803+ to 810+ ; 1452+ to 1411+

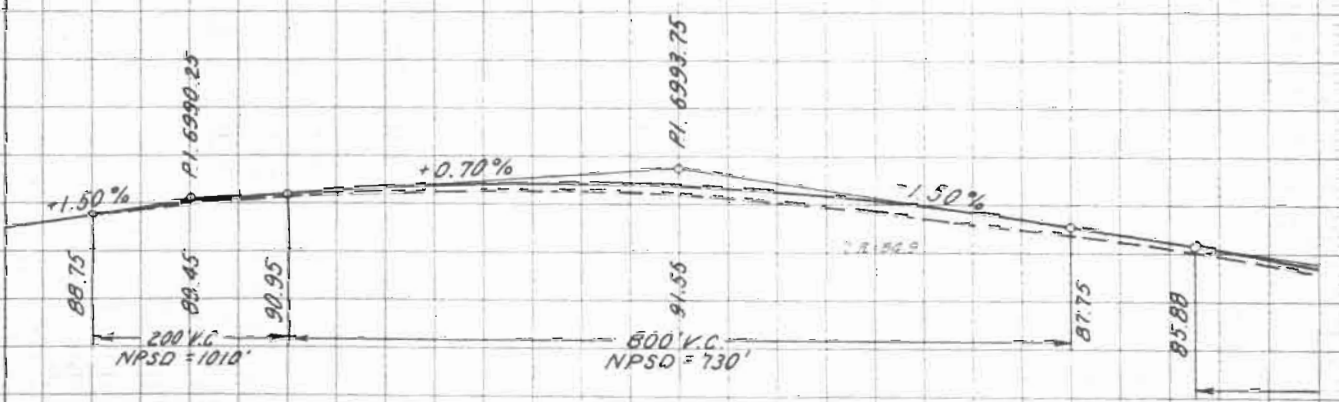


803+ to 810+  
 Req'd. Crossover &  
 Remove Crossover  
  
 Entire Project  
 Req'd. Remove & Reset  
 Guard Posts  
  
 812+61.5  
 Req'd. Project Marker Pl.  
 (State Forces)



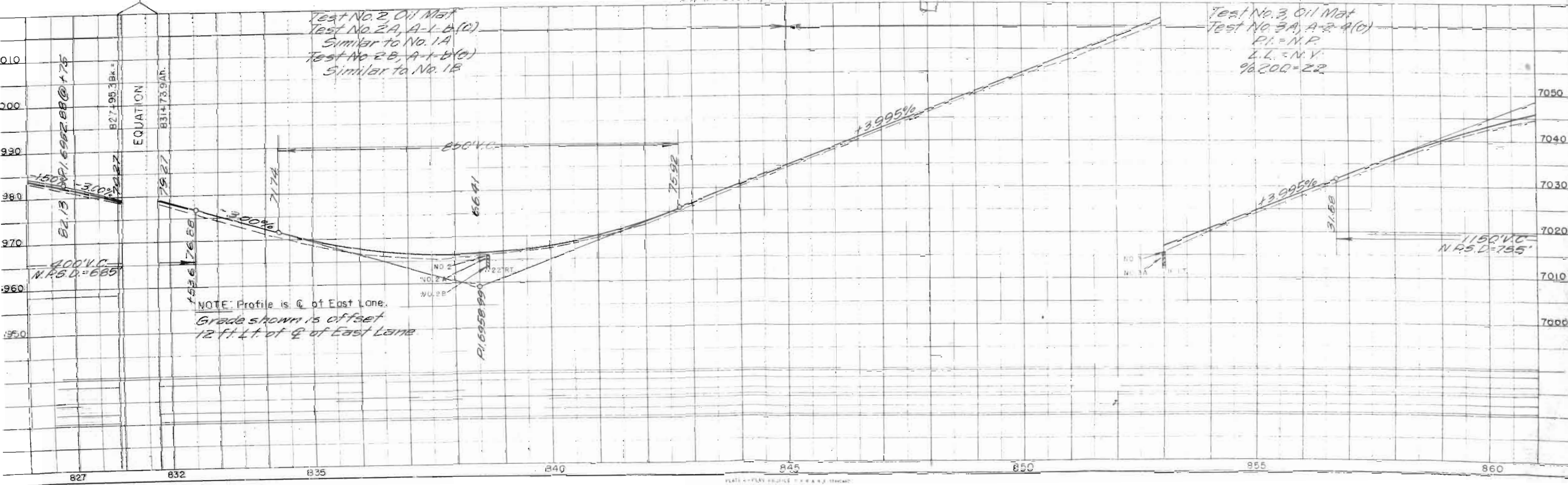
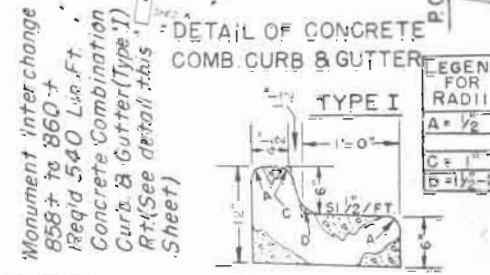
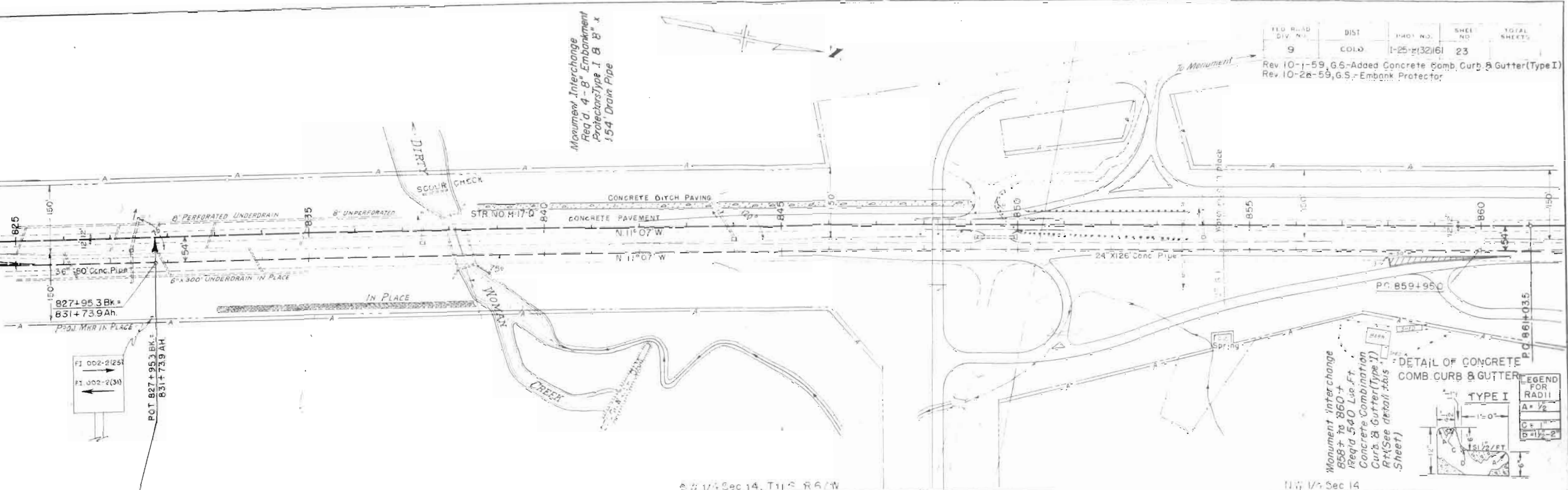
Sta. 812+61.5, Beg. I-25-2(32)161 =  
Sta. 812+61.5 on F1 002-2(25)

NW 1/4 Sec. 23

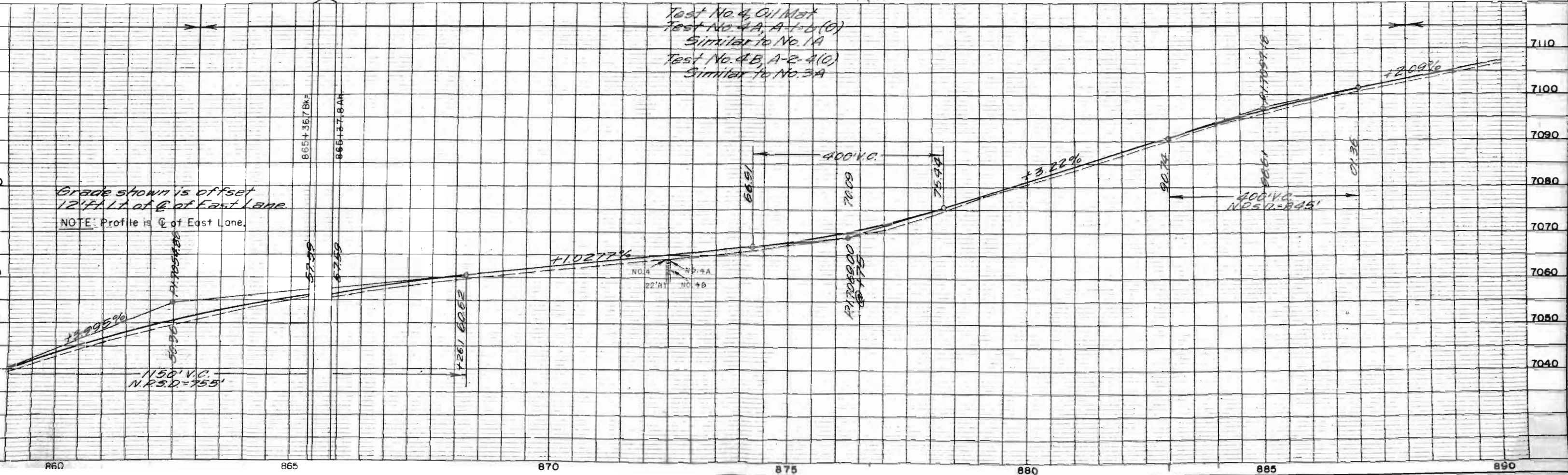
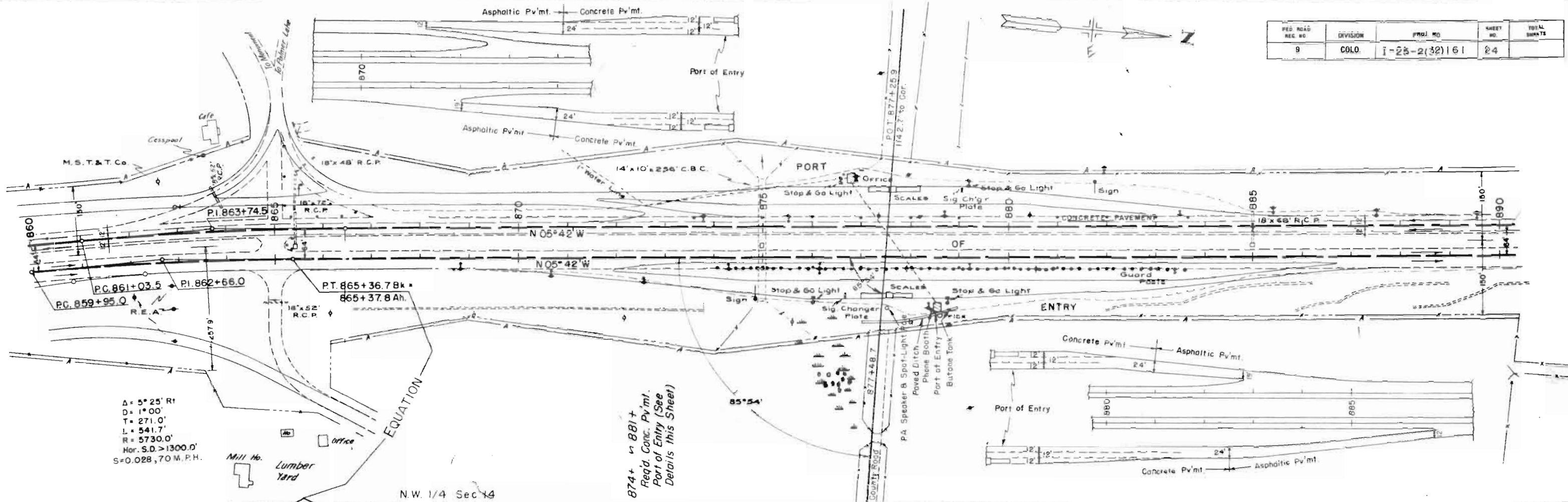


NOTE: Profile is  $\mathcal{Q}$  of East Lane  
Grade shown is offset 12' lt. of  $\mathcal{Q}$  of East Lane.

Estimated Quantities for Removal of Material for Betterment of South Bound Shoulders:  
 EXCAVATION = 12,386 Cu. Yds.  
 STATION YARD O'HAUL = 136,246 Sta. Yds.  
 YARD MILE O'HAUL = 100 Yd. Mi.



FED. ROAD REC. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	I-25-2(32)161	24	



N.W. 1/4, S.W. 1/4 Sec. 11  
T. 11 S., R. 67 W.

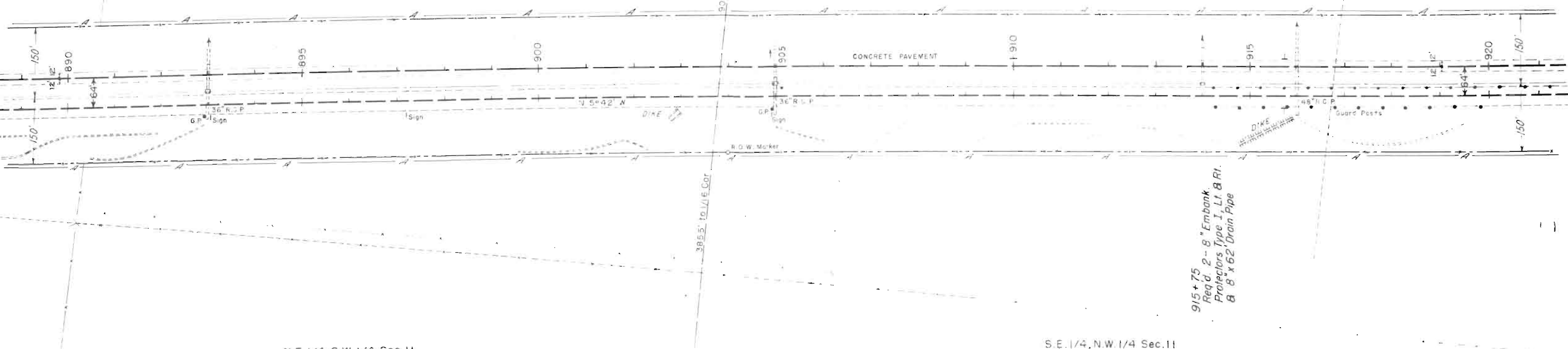
S.W. 1/4, N.W. 1/4 Sec. 11

FILE ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	I-25-232161	25	

Rev. 10-22-59, Embank, Protector - G S.

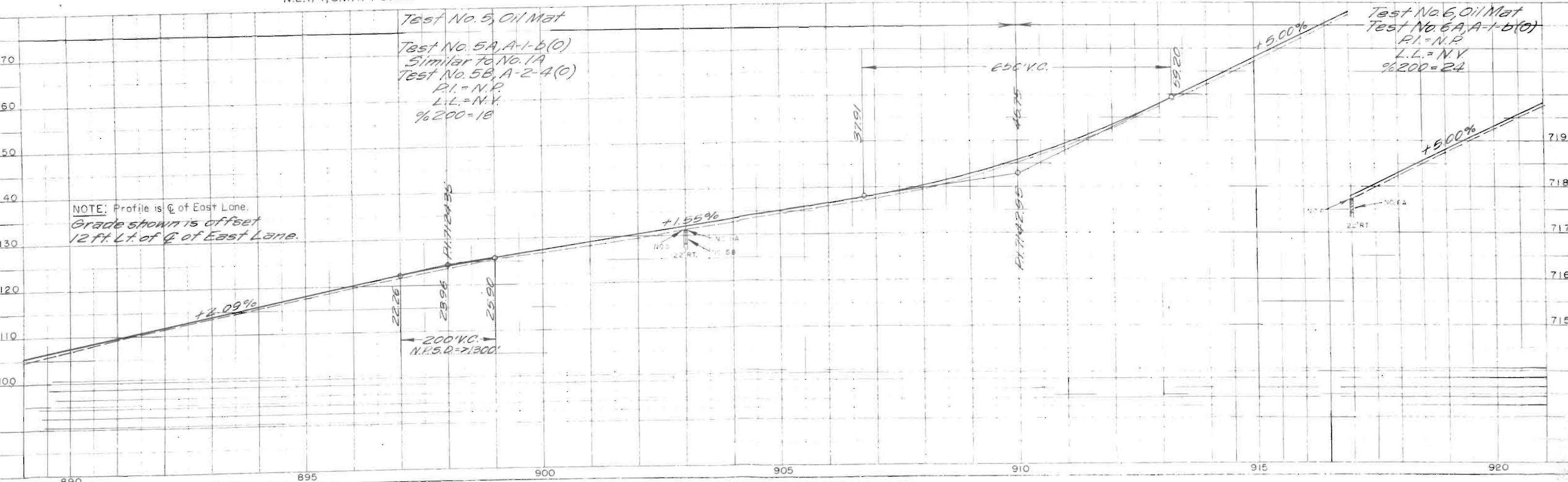
910+00  
Req'd. 8" Embank.  
Protectors Type I &  
8" x 4' Drain Pipe Lt.

915+75  
Req'd. 2-8" Embank.  
Protectors Type I, Lt. & Rt.  
& 8" x 62' Drain Pipe



N.E. 1/4, S.W. 1/4 Sec. 11

S.E. 1/4, N.W. 1/4 Sec. 11

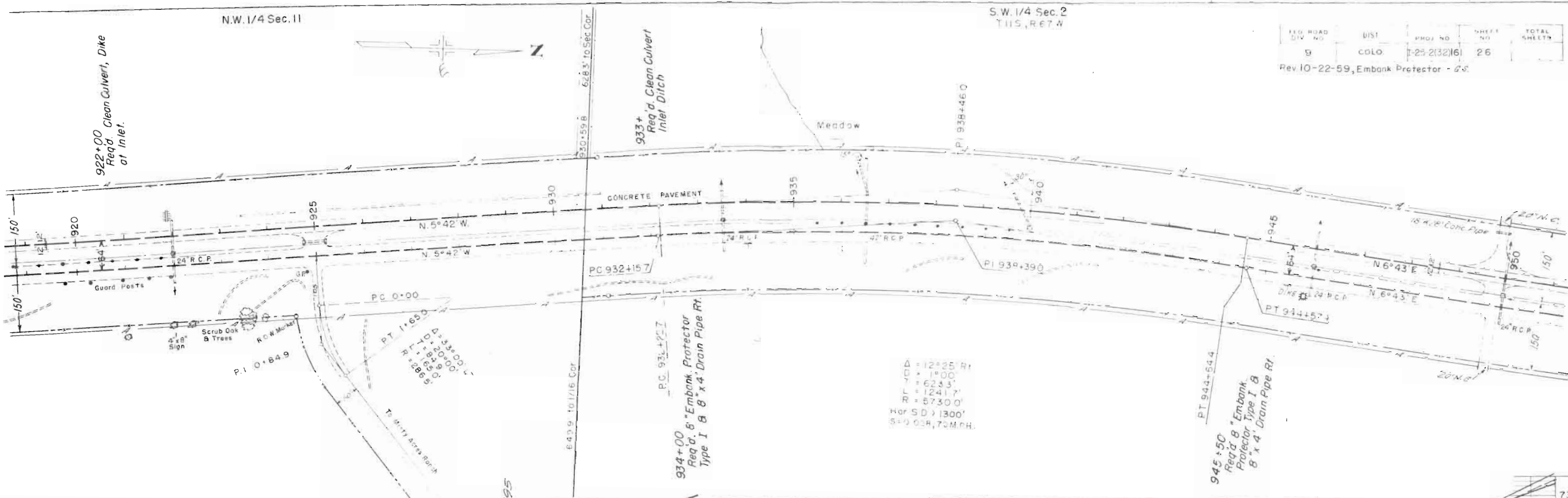


N.W. 1/4 Sec. 11

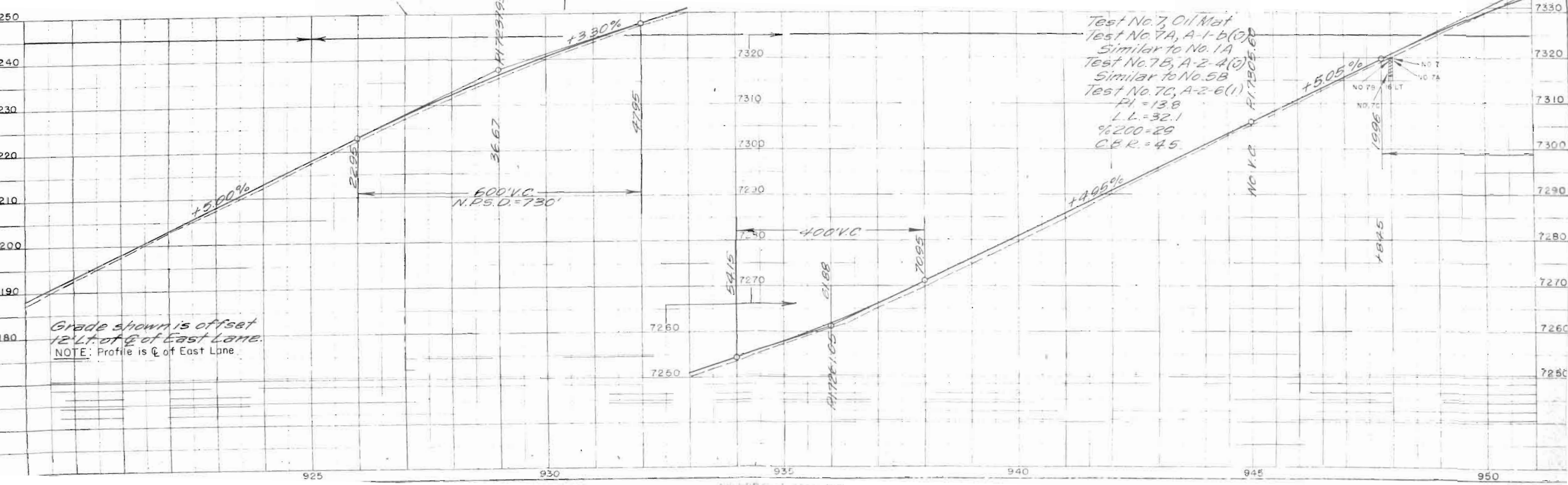
S.W. 1/4 Sec. 2  
T.11S, R.67.W

REG. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	T-25-2(32)16	26	

Rev 10-22-59, Embank Protector - 6'S

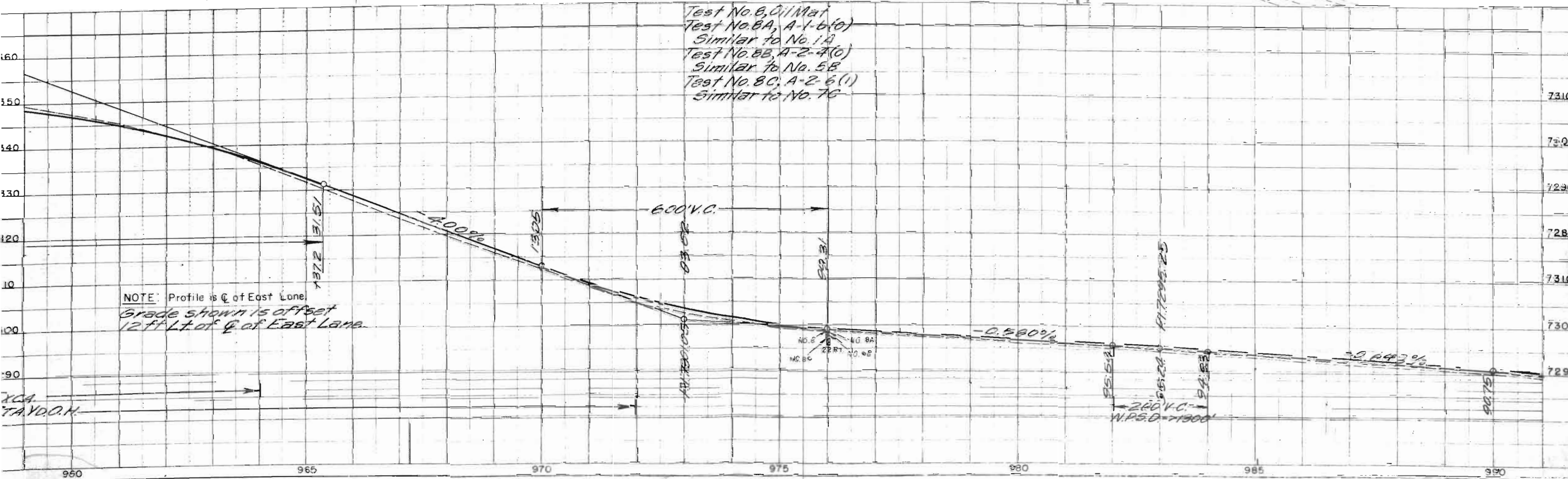
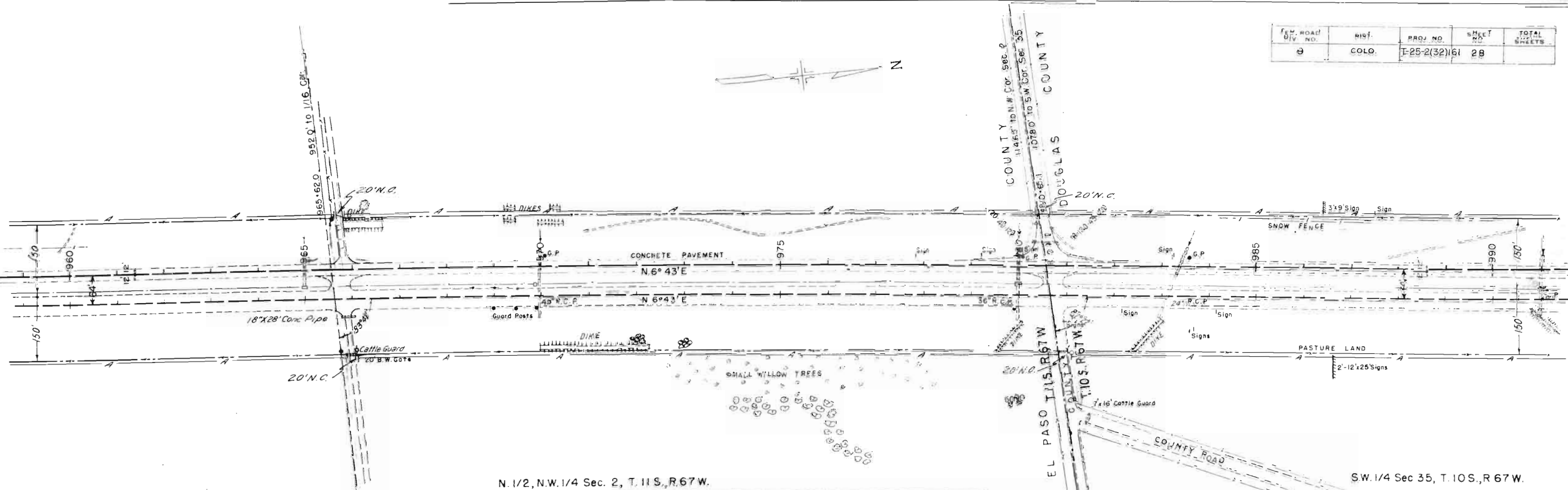


$\Delta = 12^{\circ}25' R$   
 $DB = 1^{\circ}00'$   
 $Y = 624.3'$   
 $L = 1241.7'$   
 $R = 5730.0'$   
 HOR. SD = 1300'  
 S = 0.028, 70M CH.





FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	E-25-2(32)	61 28	



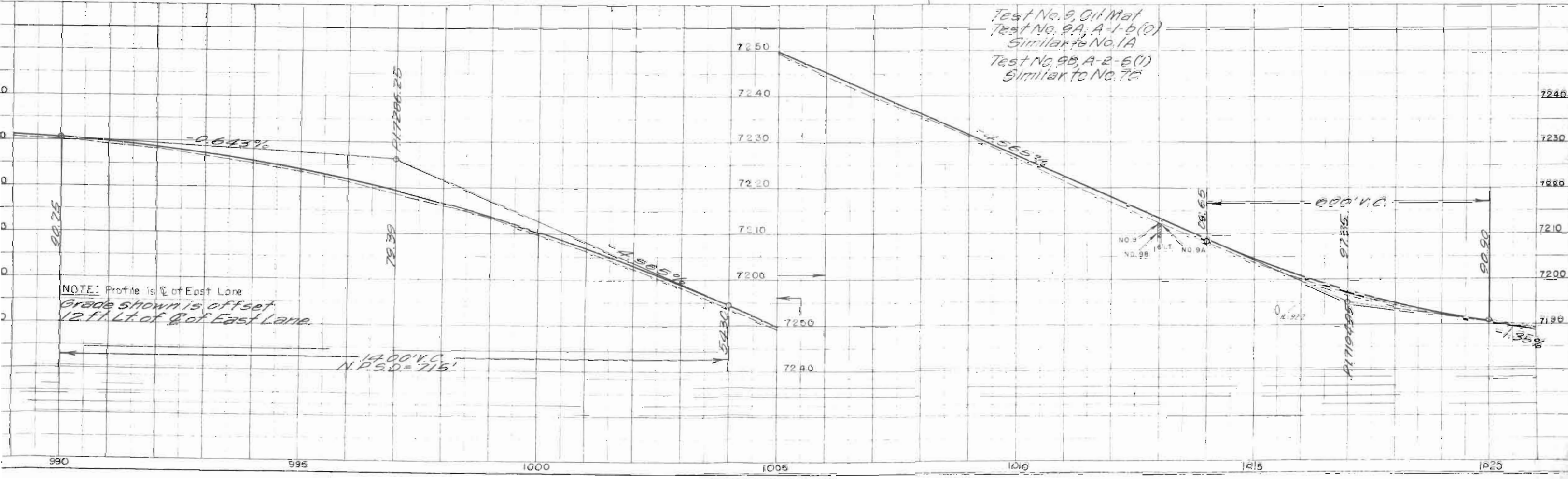
FED. ROAD DIST.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLP.	I-25-2(32)161	29	

Rev. 10-22-69, Embank. Protector - 6 S.

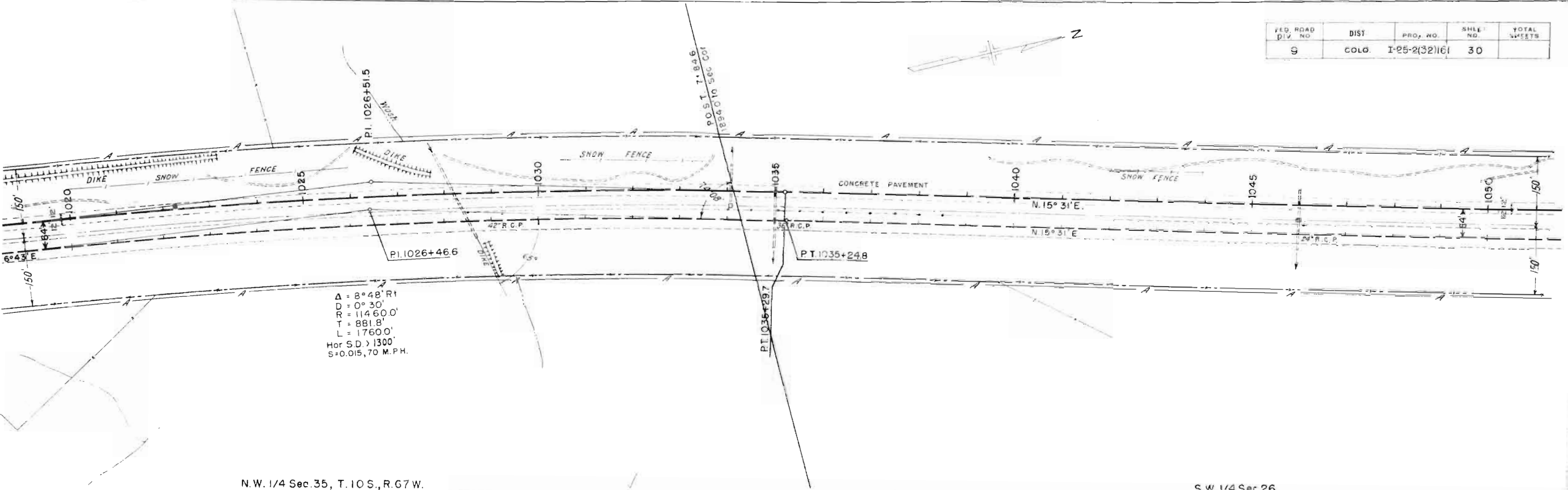


S.W. 1/4 Sec. 35, T.10 S., R.67 W.

N.W. 1/4 Sec. 35

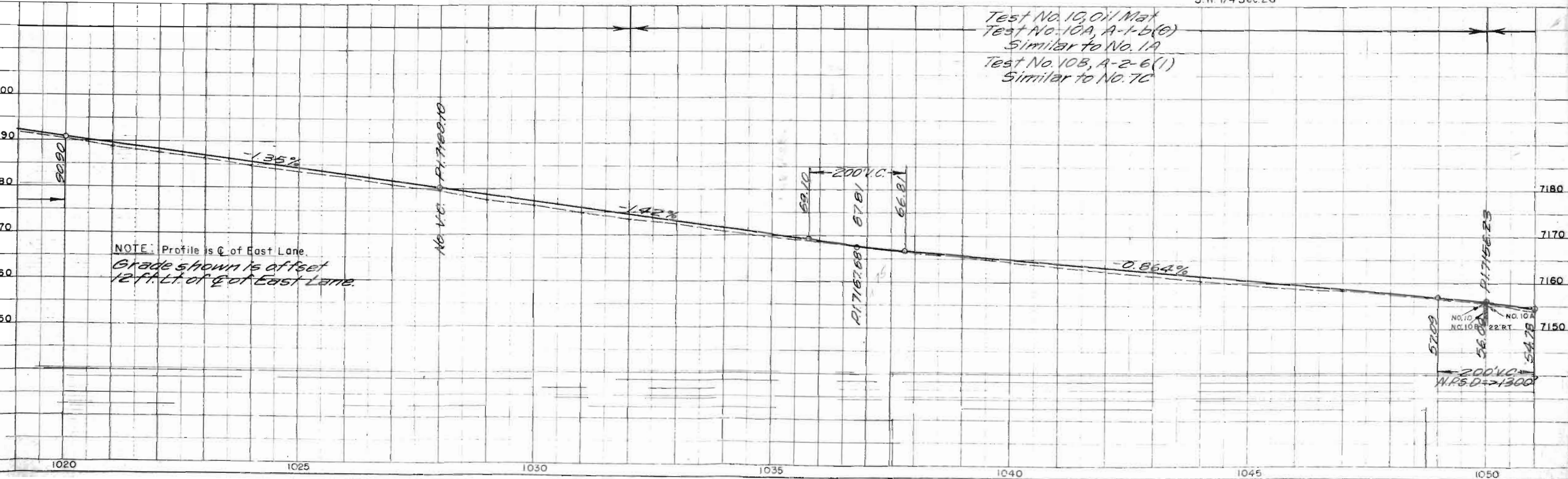


FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	I-25-2(32)161	30	



N.W. 1/4 Sec. 35, T. 10 S., R. 67 W.

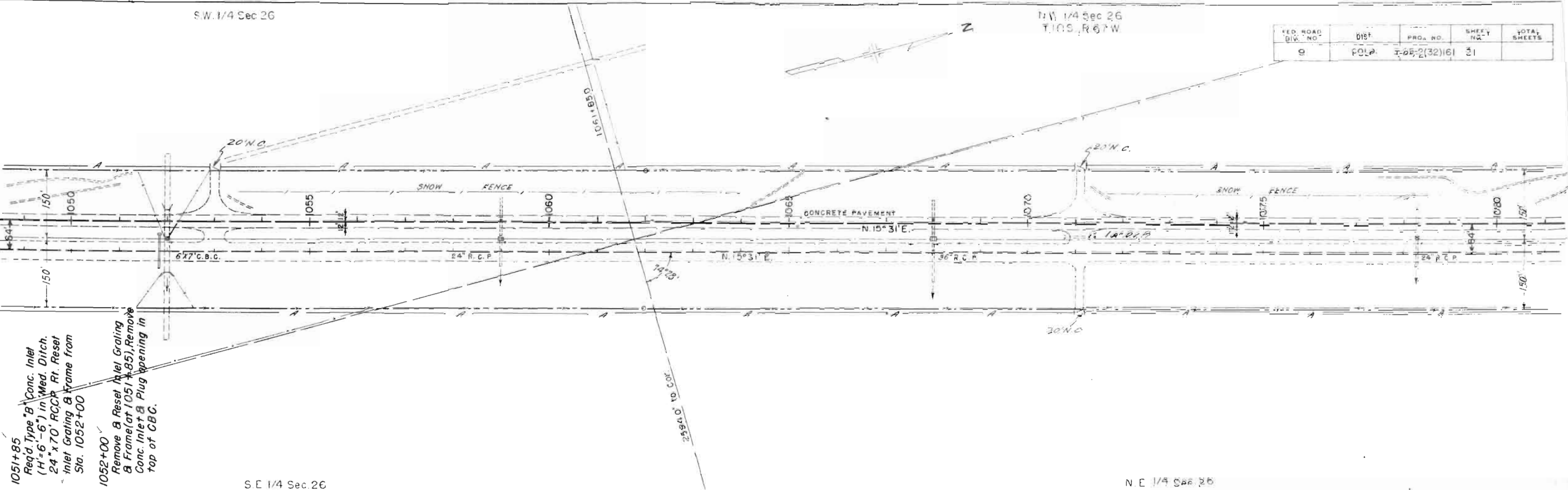
S.W. 1/4 Sec. 26



S.W. 1/4 Sec 26

N.W. 1/4 Sec 26  
T.10S. R.67W

FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	FOLP	T-25-2(32)161	31	

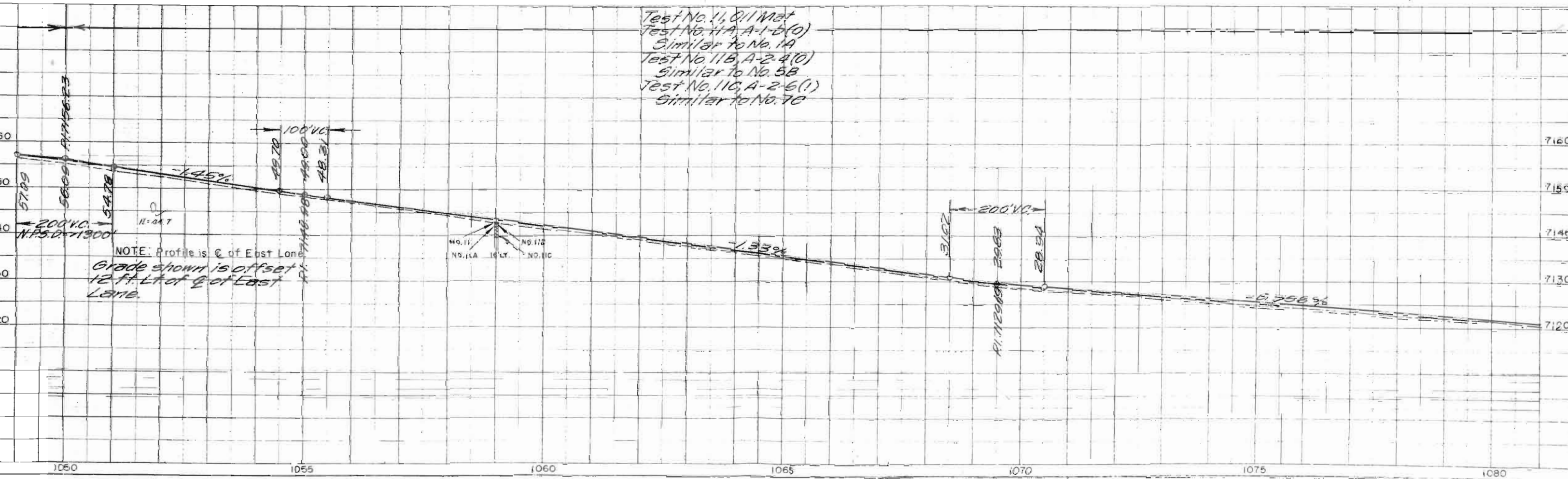


1051+85  
Req'd. Type "B" Conc. Inlet  
(H=6'-6") in Med. Ditch.  
24"x70" RCCP Rt. Reset  
Inlet Grating & Frame from  
Sta. 1052+00

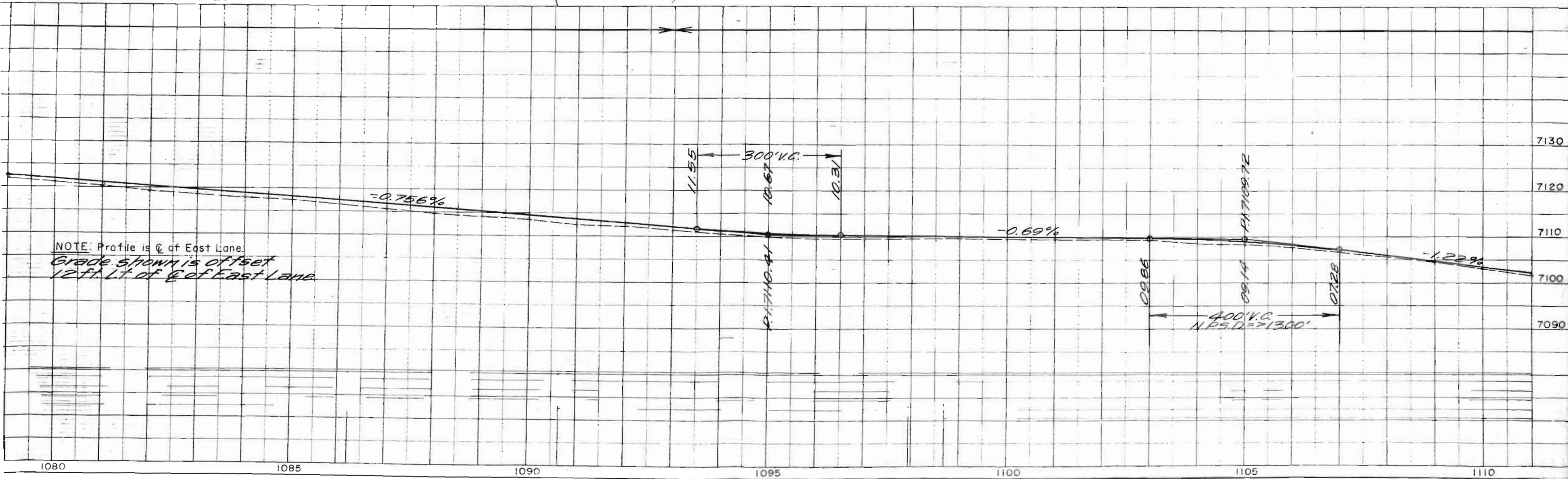
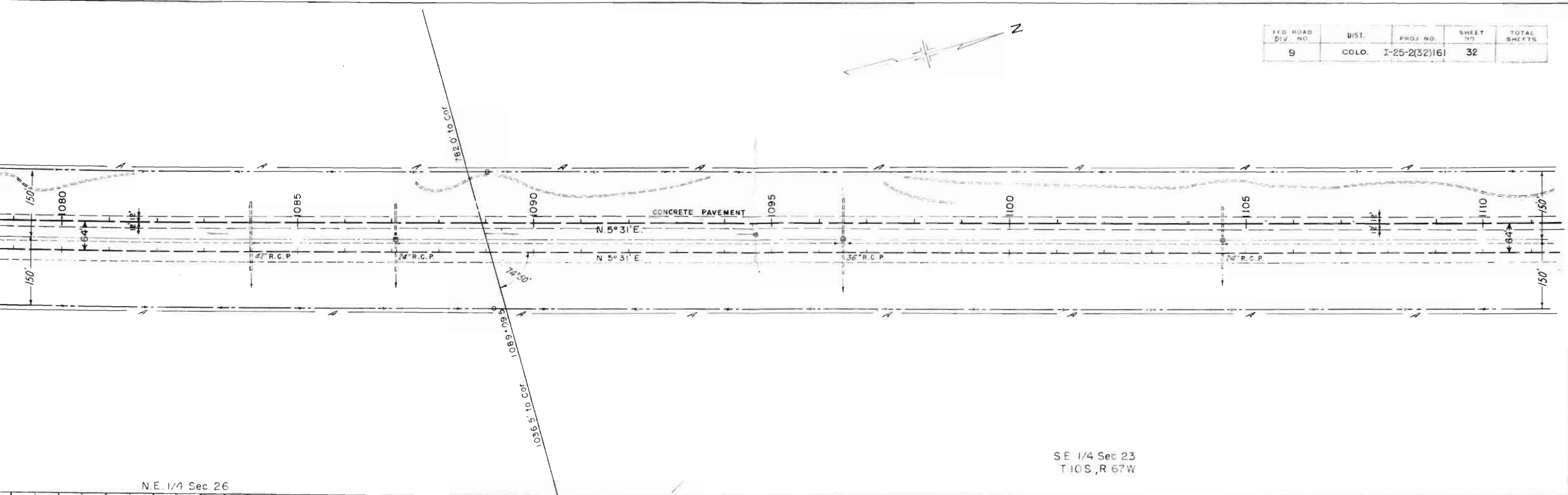
1052+00  
Remove & Reset Inlet Grating  
& Frame at 1051+85, Remove  
Conc. Inlet & Plug opening in  
top of CBC.

S.E. 1/4 Sec 26

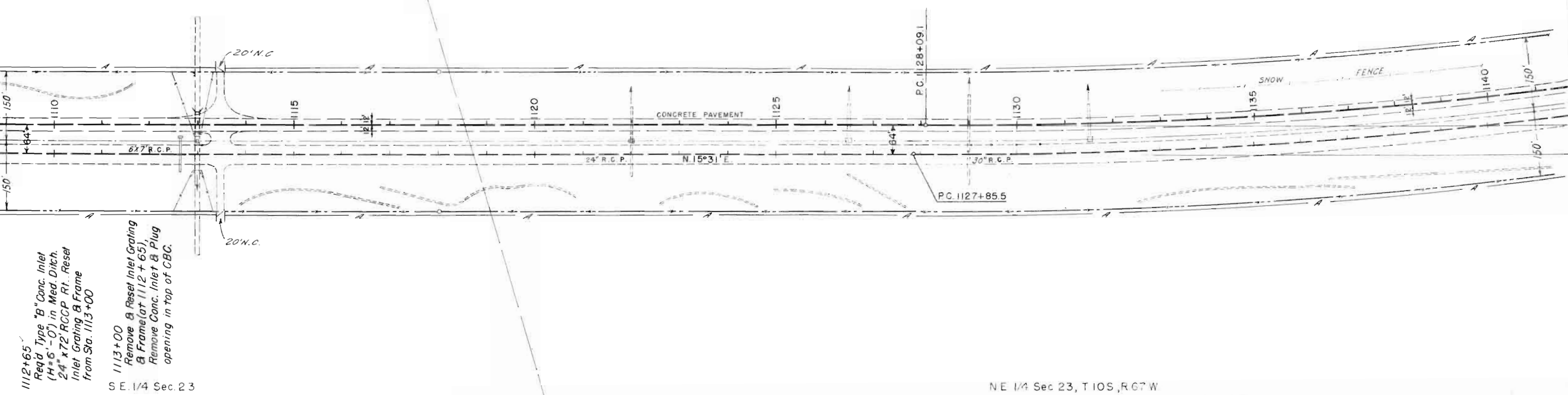
N.E. 1/4 Sec 26



FED ROAD DIV NO	DIST.	PROJ NO.	SHEET NO	TOTAL SHEETS
9	COLO.	I-25-2(32)161	32	



FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	I-25-2(32)161	33	

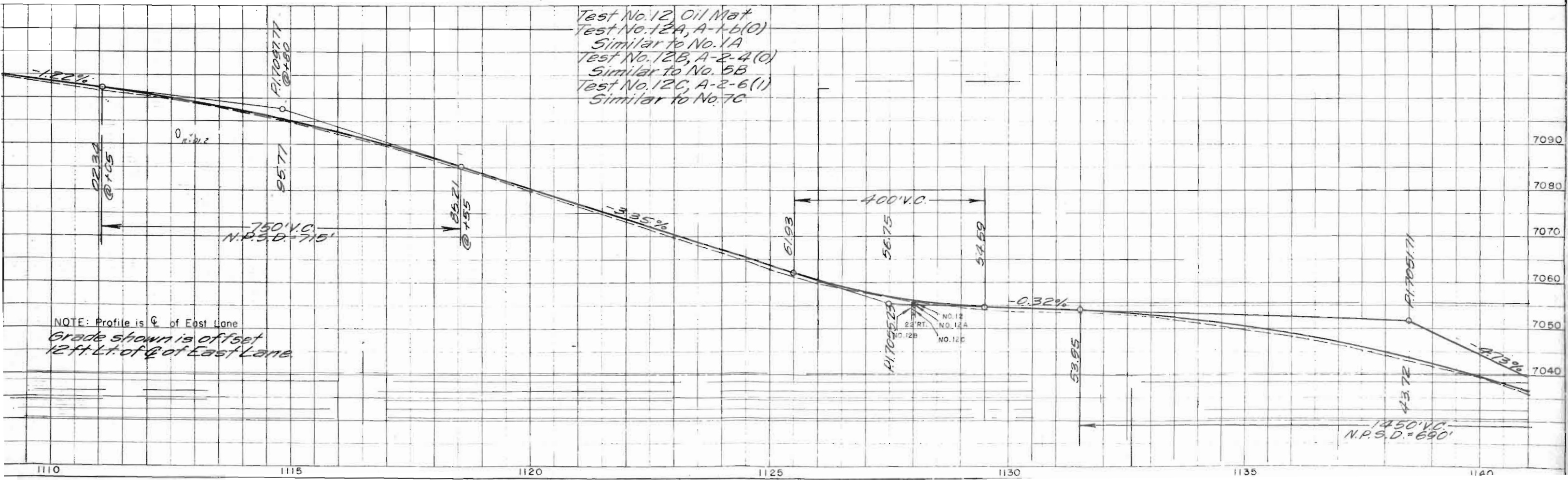


1112+65  
Req'd. Type "B" Conc. Inlet  
(H=6'-0") in Med. Ditch.  
24" x 72" R.C.P. Rt. Reset  
Inlet Grating & Frame  
from Sta. 1113+00

1113+00  
Remove & Reset Inlet Grating  
& Frame (at 1112+65),  
Remove Conc. Inlet & Plug  
opening in top of C.B.C.

S E 1/4 Sec. 23

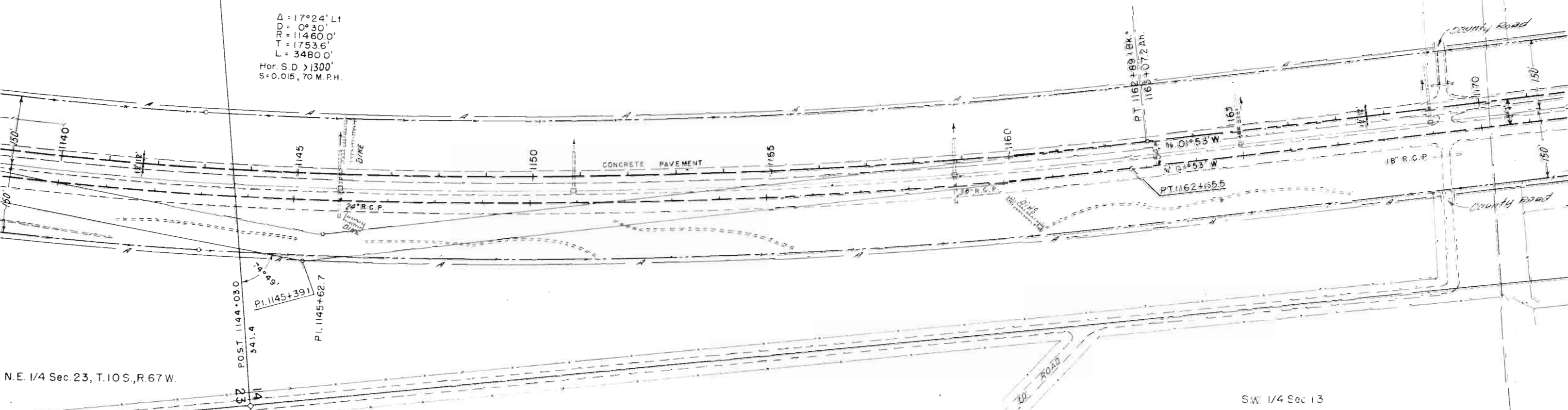
NE 1/4 Sec 23, T 10S, R 67 W



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	I-25-2(32)161	34	

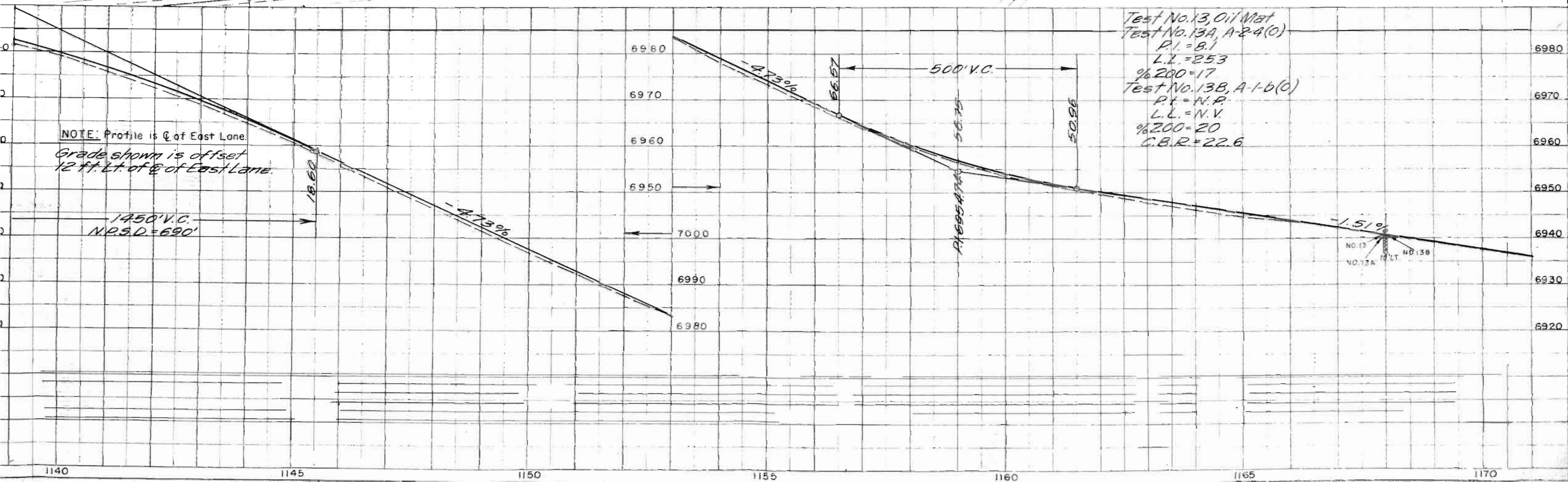


$\Delta = 17^{\circ}24' Lt$   
 $D = 0^{\circ}30'$   
 $R = 11460.0'$   
 $T = 1753.6'$   
 $L = 3480.0'$   
 Hor. S.D. > 1300'  
 $S = 0.015, 70 \text{ M.P.H.}$

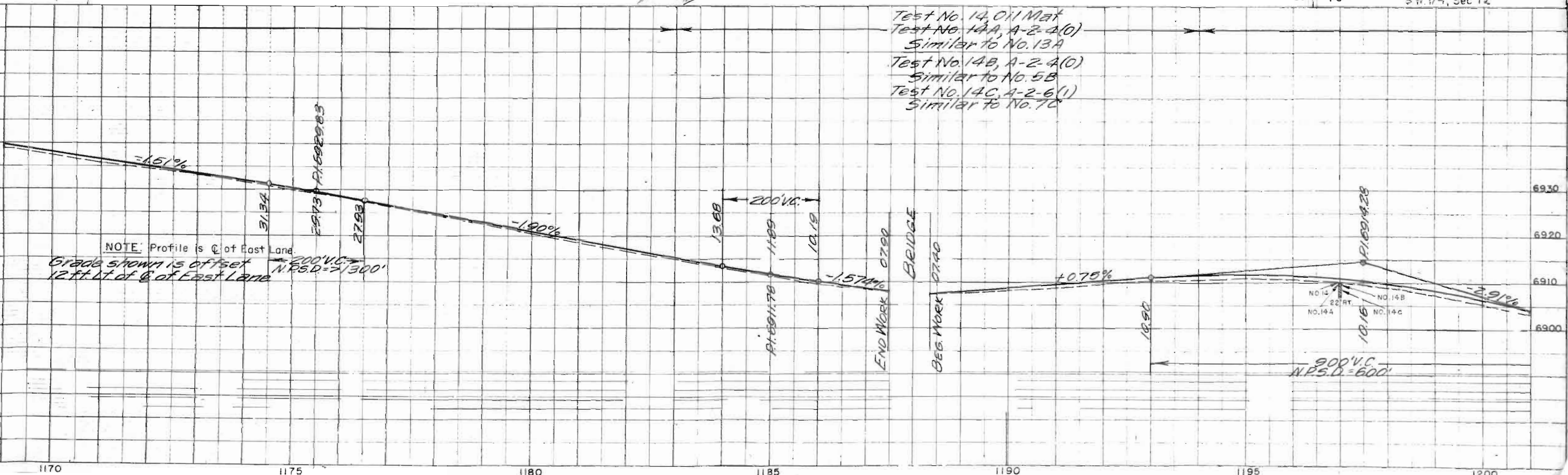
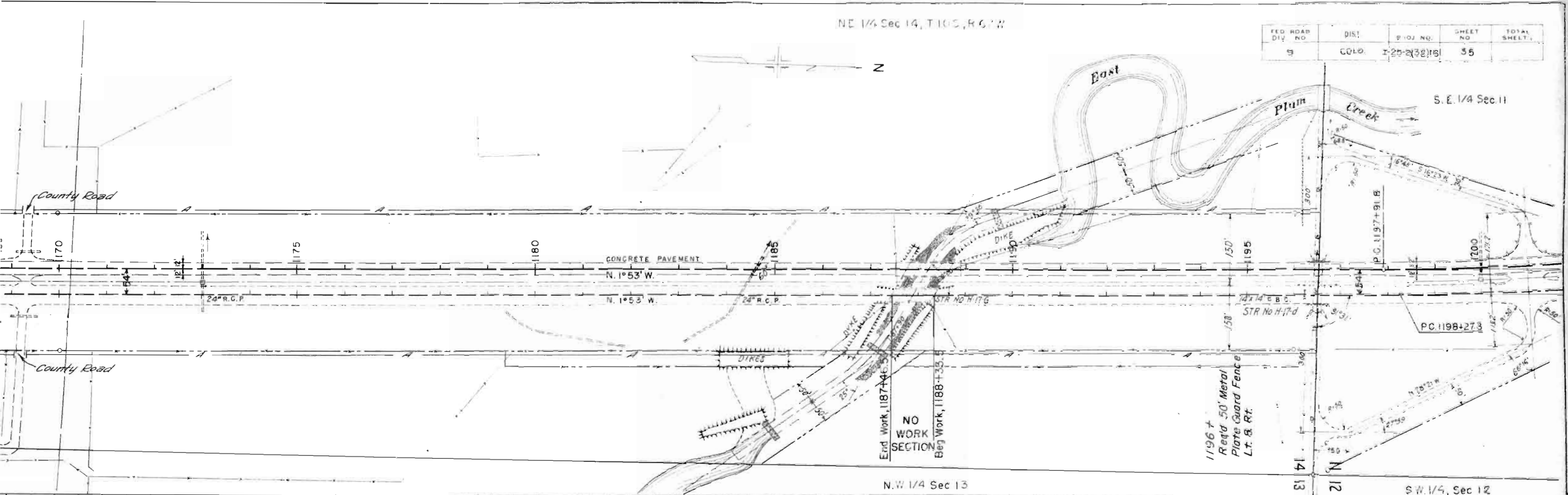


N.E 1/4 Sec. 23, T.10S., R.67W.

SW 1/4 Sec 13



FED. ROAD DIV. NO.	DIST.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	1-25-2(32)116	35	

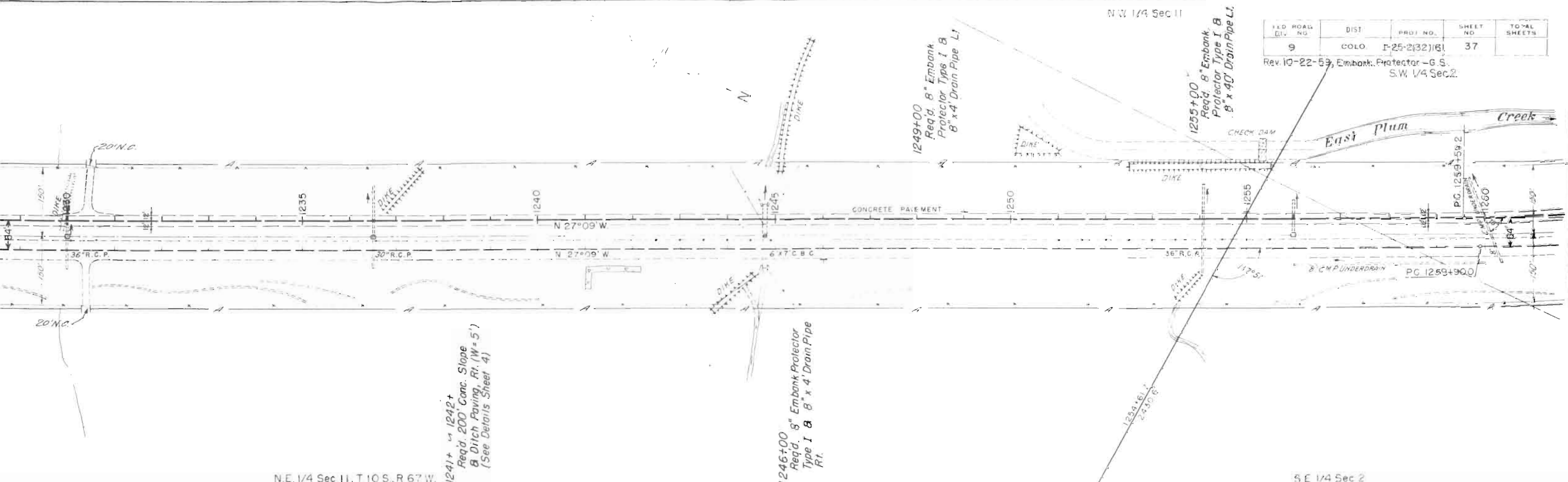




N.W. 1/4 Sec 11

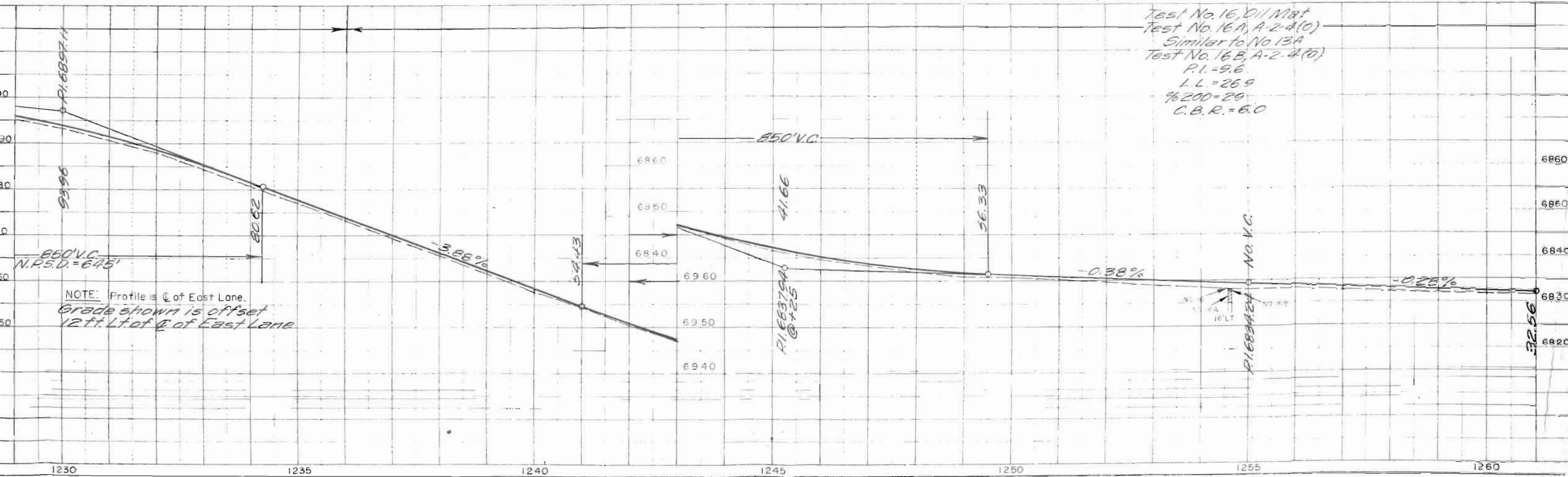
FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F-25-2(32)161	37	

Rev. 10-22-59, Embank. Protector - G.S.  
S.W. 1/4 Sec. 2

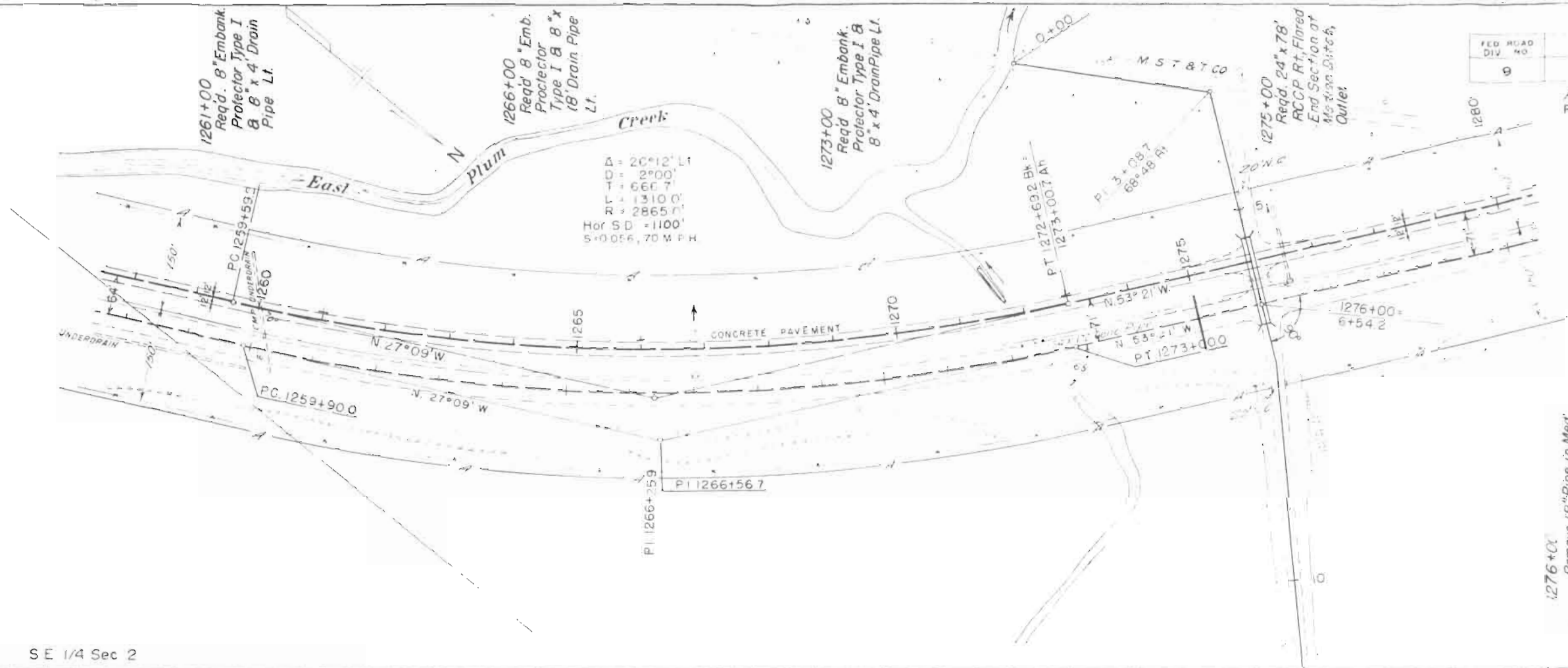


N.E. 1/4 Sec 11, T 10 S, R 67 W.

S.E. 1/4 Sec 2

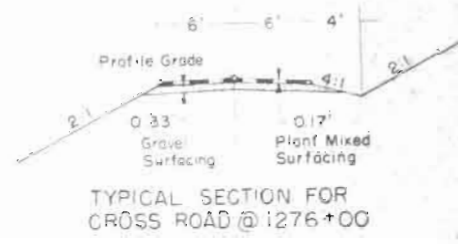


1230 1235 1240 1245 1250 1255 1260



FED ROAD DIV NO	DIST	PROJ NO	SHEET	TOTAL SHEETS
9	COLD	I-25-2(32)161	38	

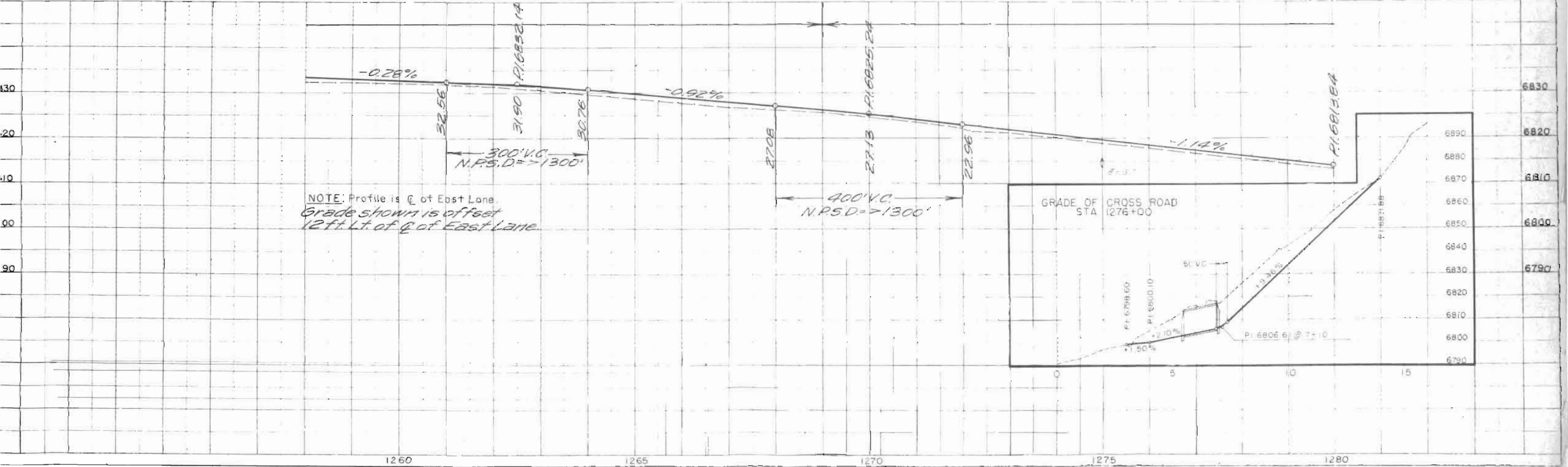
Rev 7-9-59, G.S., relocate C.B.C.  
Rev 10-22-59, Embank. Protector-G.S.



1276+00  
Remove 18" Pipe in Med.  
Reqd. 12 x 10 x 143 C.B.C.  
(Type 12A) B. Approaches  
(See Detail this sheet)  
Remove Concrete South  
Lane for C.B.C. Fence  
from Box to R.O.W. Rt.  
B.Lt

10 S. 1/4 Sec 2  
T 10 S. R 67 W

SE 1/4 Sec 2

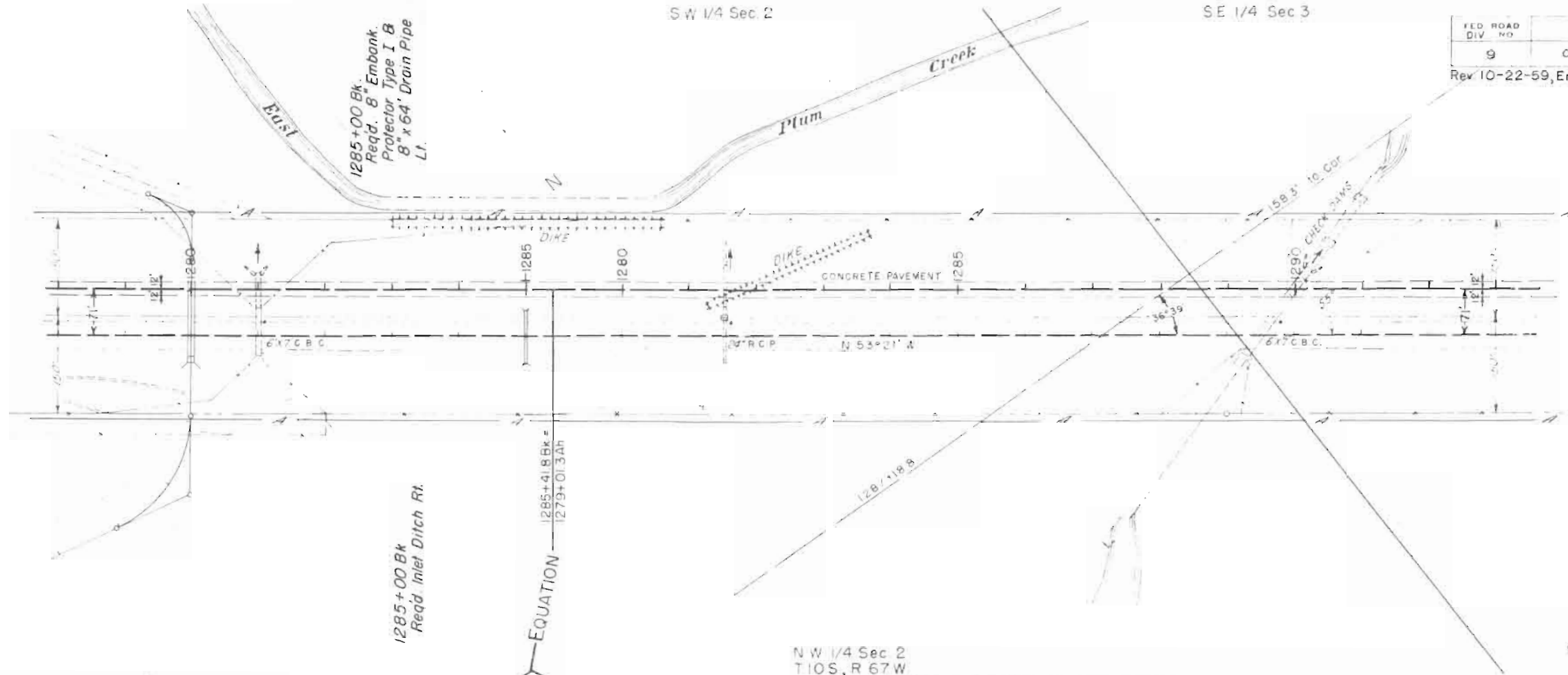


SW 1/4 Sec 2

SE 1/4 Sec 3

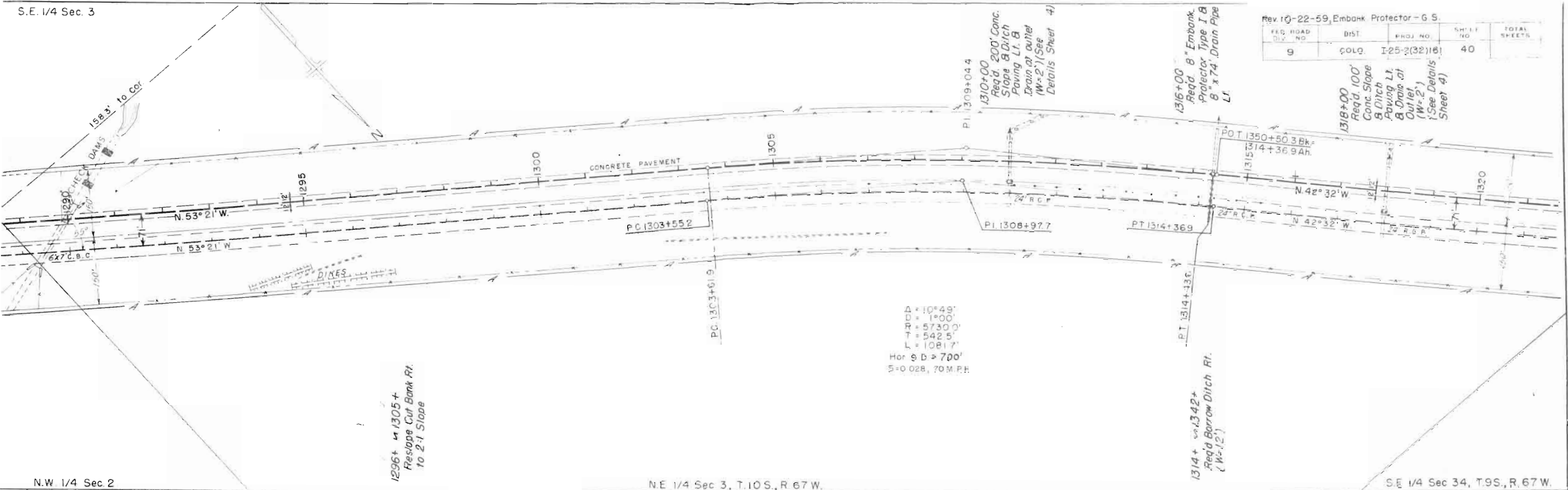
FED ROAD DIV NO	DIST	PROJ NO.	SHEET NO	TOTAL SHEETS
9	COLO	I-25-2(32)161	39	

Rev 10-22-59, Embank Protector - G.S.



S.E. 1/4 Sec. 3

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	I-25-2(32)161	40	



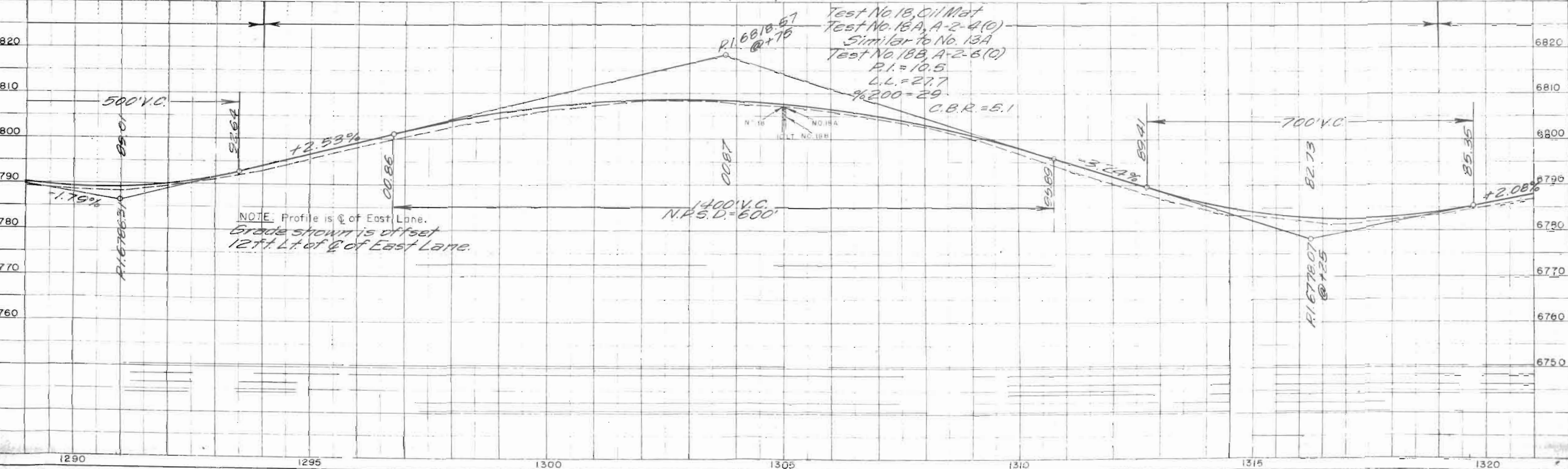
$\Delta = 10^\circ 49'$   
 $D = 100'$   
 $R = 5730.0'$   
 $T = 542.5'$   
 $L = 1081.7'$   
 Hor S.D. = 700'  
 S-O 028, 70 M.P.H.

1296+ to 1305+  
Reslope Cut Bank Rt.  
to 2:1 Slope

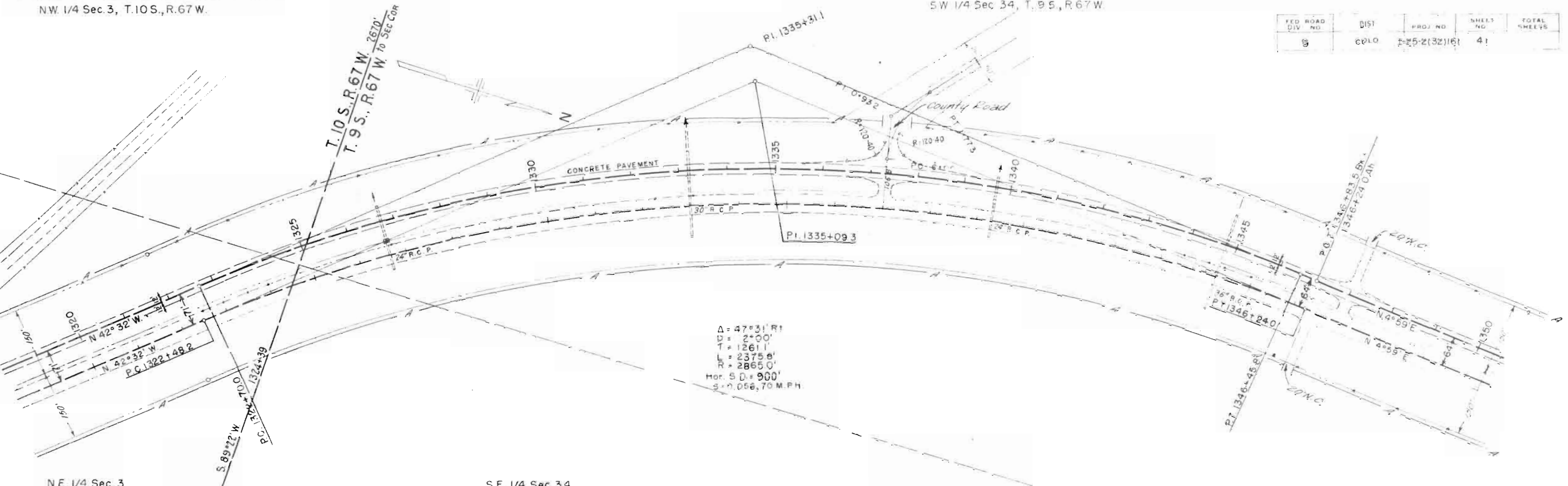
N.W. 1/4 Sec. 2

NE 1/4 Sec 3, T.10S., R. 67W.

SE 1/4 Sec 34, T.9S., R. 67W.



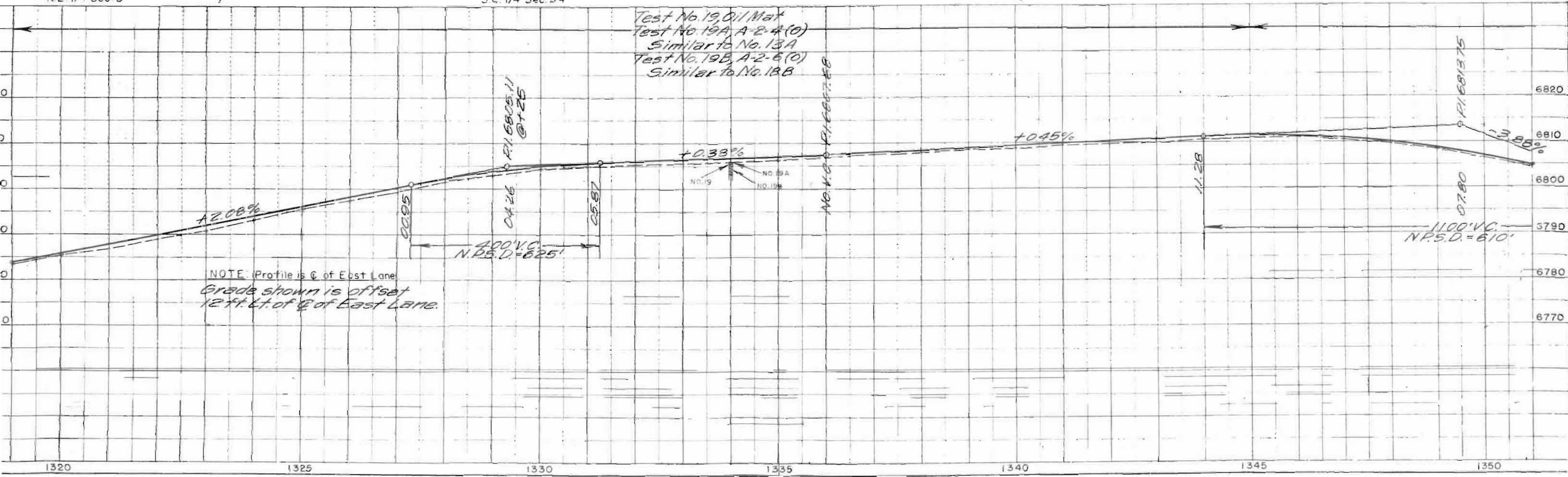
FED ROAD DIV NO	DIST	PROJ NO	SHEET NO	TOTAL SHEETS
5	COLO	1-25-2(32)161	41	



$\Delta = 47^{\circ}31' R1$   
 $W = 2^{\circ}00'$   
 $T = 12611'$   
 $RI = 23758'$   
 $RI = 28650'$   
 $Hor. S.D. = 900'$   
 $S = 0.058, 70 \text{ M.P.H.}$

NE 1/4 Sec 3

SE 1/4 Sec. 34

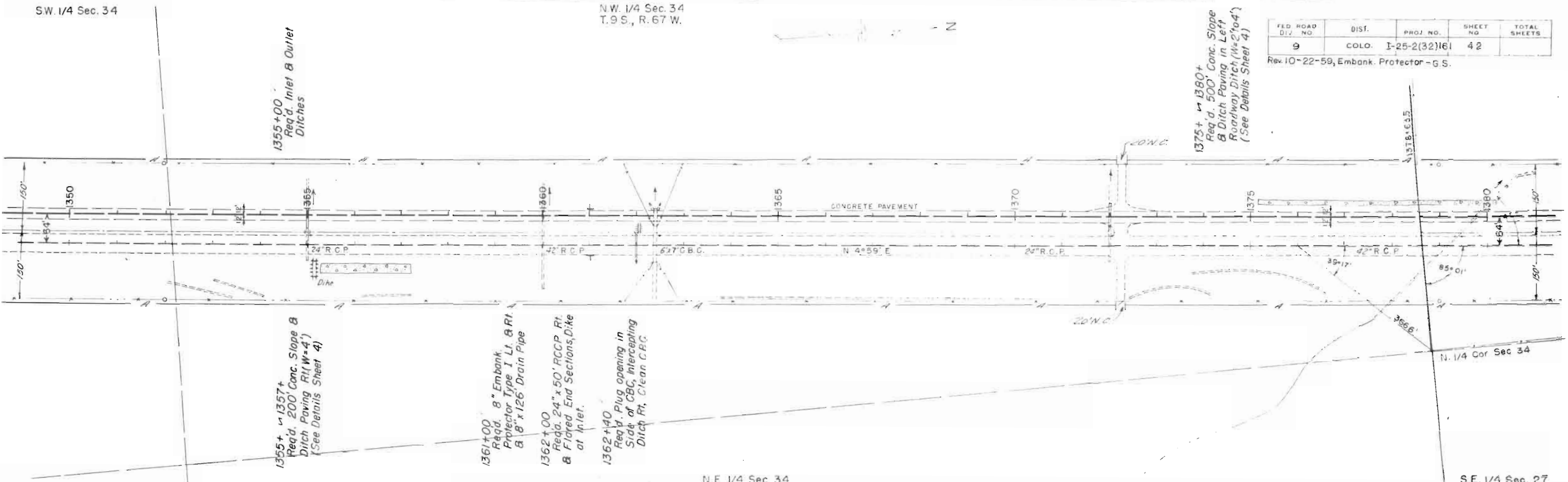


S.W. 1/4 Sec. 34

N.W. 1/4 Sec. 34  
T.9 S., R.67 W.

FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	I-25-2(32)161	42	

Rev. 10-22-59, Embank. Protector - G.S.



1355+00  
Req'd. Inlet & Outlet  
Ditches

1375+00  
Req'd. 500' Conc. Slope  
& Ditch Paving in Left  
Roadway Ditch (W=2' to 4')  
(See Details Sheet 4)

1355+00  
Req'd. 200' Conc. Slope &  
Ditch Paving (W=4')  
(See Details Sheet 4)

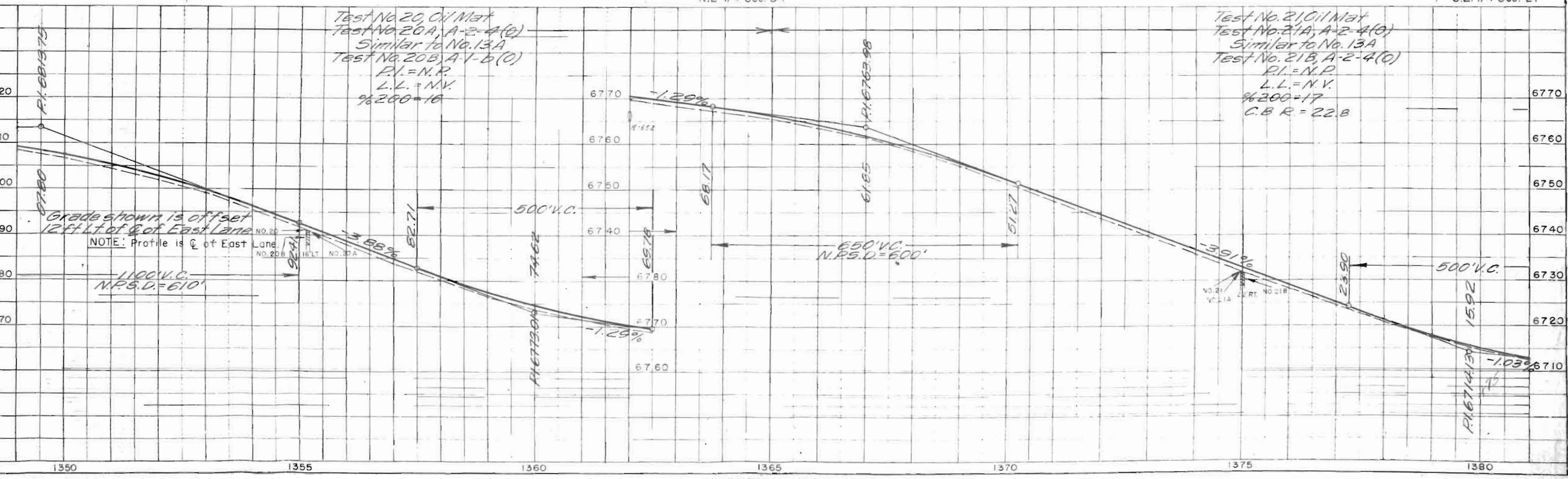
1361+00  
Req'd. 8" Embank.  
Protector Type 1 Lt. & Rt.  
& 8" x 126" Drain Pipe

1362+00  
Req'd. 24" x 50' RCCP Rt.  
& Flared End Sections, Dike  
at Inlet.

1362+40  
Req'd. Plug opening in  
Side of CBC, Intersecting  
Ditch Rt. Clean C.R.C.

N.E. 1/4 Sec. 34

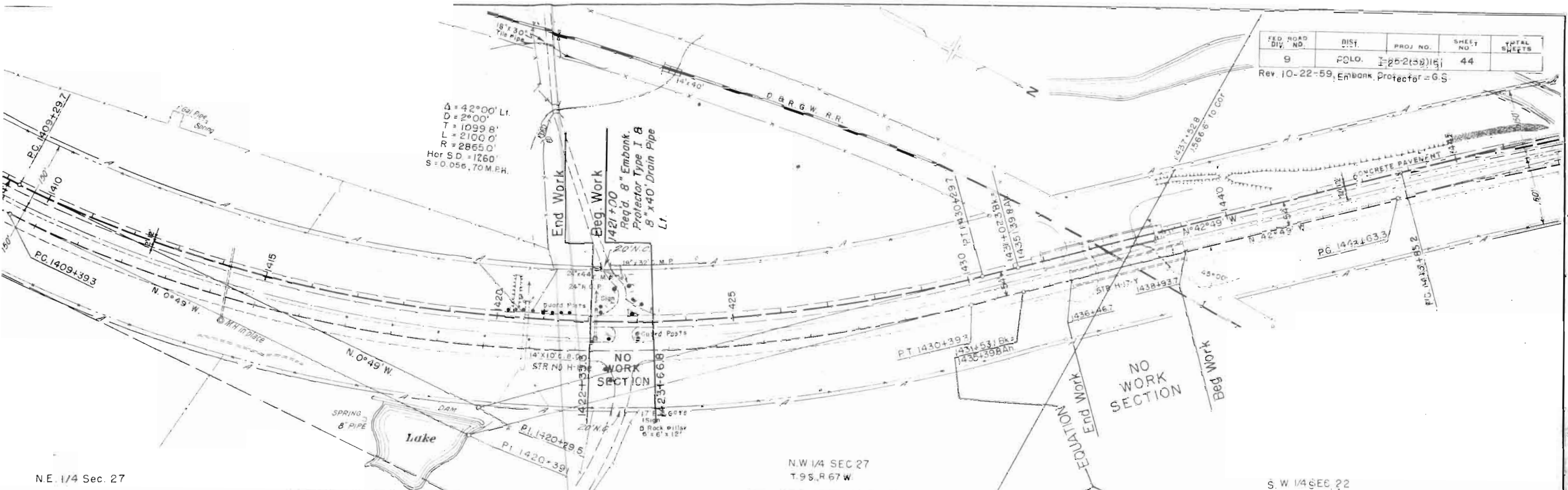
S.E. 1/4 Sec. 27





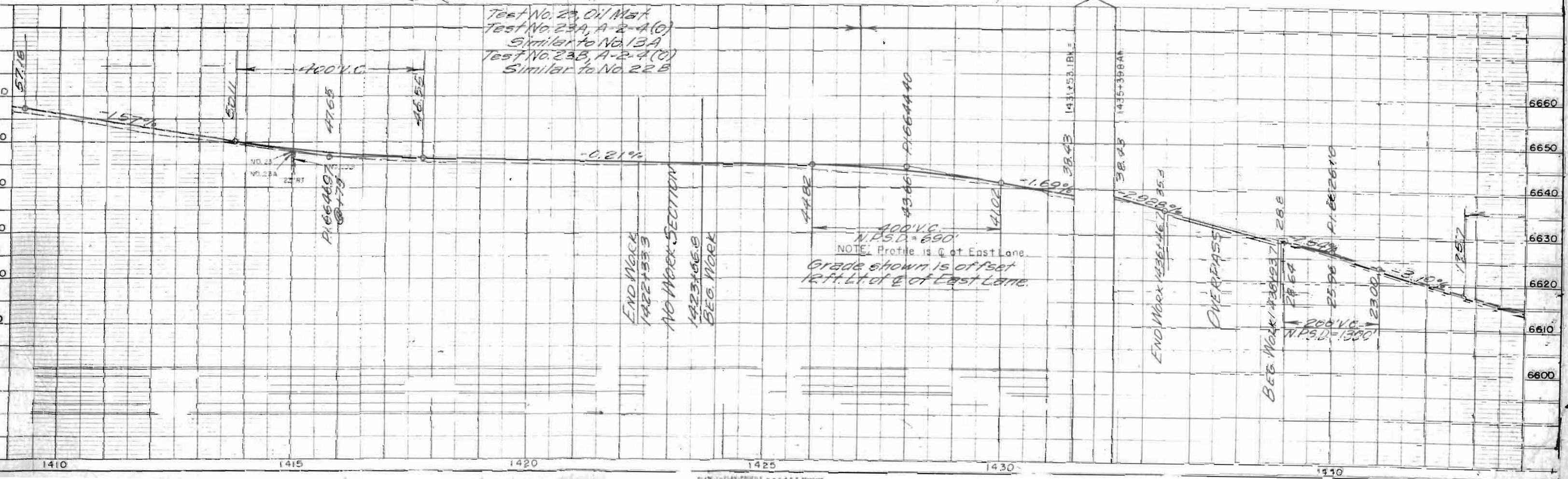
FED. ROAD DIV. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	POLO	I-25-2(32)16	44	

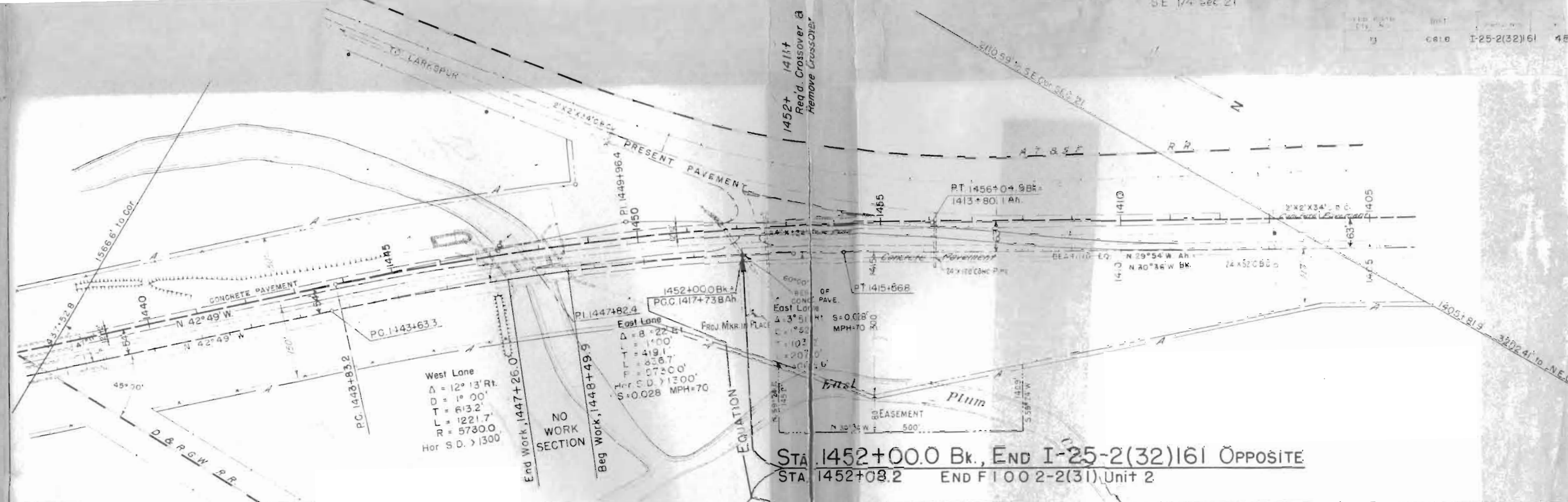
Rev. 10-22-59, Embank. Protector = G.S.



NE 1/4 Sec. 27

S.W. 1/4 SEC 22





STA. 1452+00.0 Bk., END I-25-2(32)161 OPPOSITE  
 STA. 1452+08.2 END F100 2-2(31) Unit 2

