

RESIDENT ENGINEER

# DEPARTMENT OF HIGHWAYS STATE OF COLORADO

RIGHT OF WAY PREVIOUSLY PURCHASED ON  
COMB. PROJ. F.A.P. 68F (1) & FL.H.P. 3B (1) &  
COMB. PROJ. F.A.P. 68E (1) & FL.H.P. 3C (1)

FEDERAL ROAD DIVISION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	F O 25-1 (3)	1	

REV. 5-18-65, C.K.M.

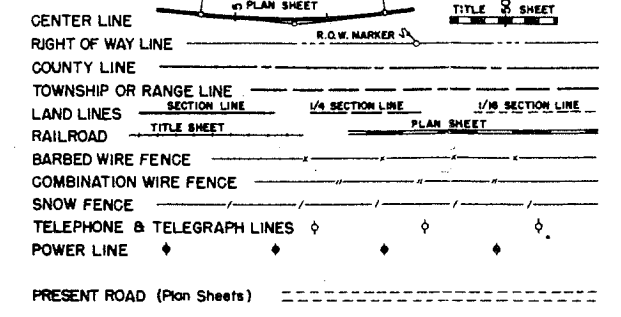
### INDEX OF SHEETS

- SHEET NO.
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  - 2. TYPICAL SECTIONS AND GENERAL NOTES.
  - 3. SUMMARY OF APPROXIMATE QUANTITIES.
  - 4. SURFACING AND SUBBASE MATERIAL PLANS.
  - 5. PIT LOCATIONS.
  - 6. TABULATION OF DELINEATORS, TABULATION OF GUARD FENCE, SUMMARY OF EARTHWORK QUANTITIES AND DETAILS OF PLUG C.B.C. STA. 1759+.
  - 7-8. STRUCTURE QUANTITIES.
  - 9. DETAILS OF RIPRAP DITCH CHECKS, TYPICAL CHANNEL SECTION AND PROFILE OF CHANNEL CHANGE STA. 1756+ TO 1764+, DETAIL OF DRY RUBBLE SLOPE & DITCH PAVING STA. 1667+, DETAIL OF RIPRAP AND DETAIL FOR HEADWALL REMOVAL.
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  - 19-68. CROSS SECTIONS.
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  - 82-84. CROSS SECTIONS FOR CHANNEL CHANGE STA. 1756+ TO 1764+.

- M-1-D SUPERELEVATION AND WIDENING OF CURVES - CROWNED HIGHWAYS (2-3-'64)
- M-2-A APPROACH ROADS, FLARING, CUT SLOPE TREATMENT, BRIDGE & CREST WIDENING (2-3-'64)
- M-6-B CONSTRUCTION TRAFFIC SIGNS (TWO SHEETS) (1-31-'64) & (8-24-'64)
- M-6-BA TRAFFIC SIGNING FOR HIGHWAY CONSTRUCTION (THREE SHEETS) (2-1-'65)
- M-6-CA IDENTIFICATION SIGNS (6-26-'64)
- M-13-A DITCH TYPES (2-3-'64)
- M-16-A BACKFILL AROUND STRUCTURES (1-31-'64)
- M-45-B CULVERT PIPE (4-16-'65)
- M-46-C SINGLE AND DOUBLE CONCRETE BOX CULVERTS (2-11-'64)
- M-46-E WINGWALLS FOR CONCRETE BOX CULVERTS (2:1 SIDE SLOPES) (9-24-'64)
- M-75-A METAL PLATE GUARD FENCE (12-9-'64)
- M-76-A WIRE FENCES AND GATES (TWO SHEETS) (4-8-'65)
- M-82-AA CATTLE GUARD, 10 FT. & 16 FT. ROADWAY (4-8-'65)
- M-95-A HEADWALLS AND APRONS FOR C.M.P. CULVERTS (3-9-'65)
- M-142-AA TIMBER BARRICADES (2-1-'65)
- M-192-AA DELINEATORS (TWO SHEETS) (10-27-'64)

## PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. FO 25-1 (3) STATE HIGHWAY NO. 15 CHAFFEE & SAGUACHE COUNTIES

### CONVENTIONAL SIGNS

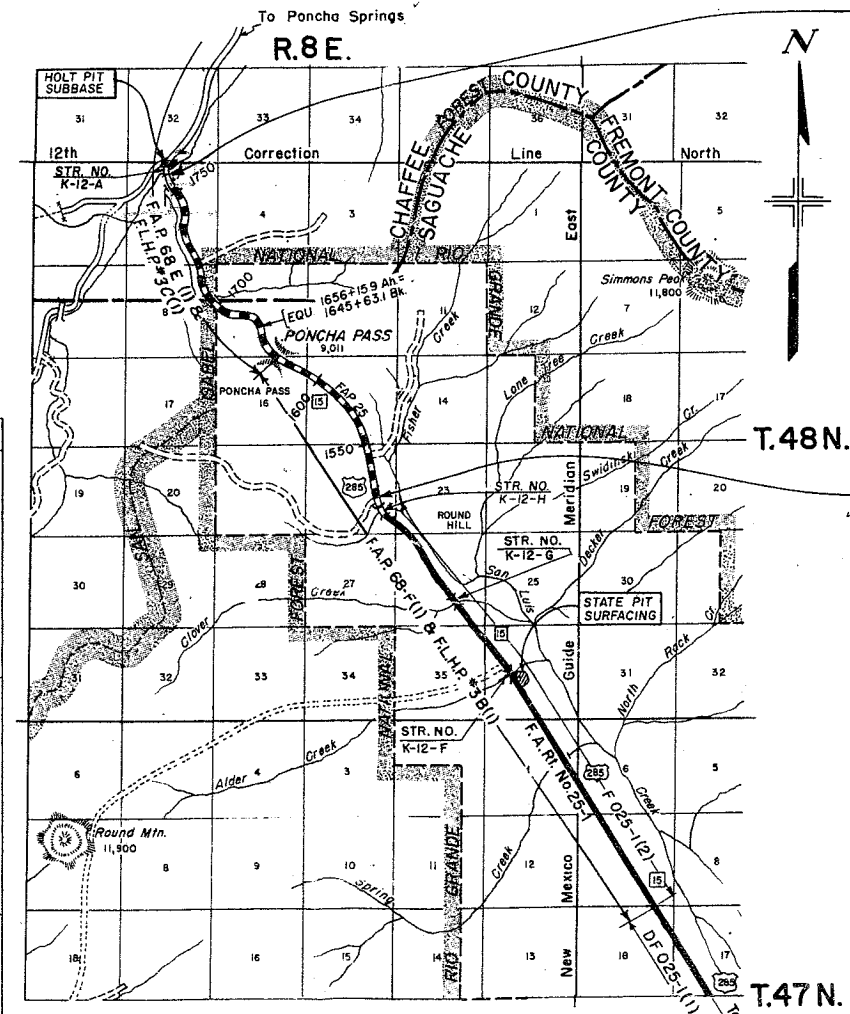


### SCALES OF ORIGINAL DRAWINGS

ON PLAN. 1 IN. = 100 FT.  
ON PROFILE. 1 IN. = 100 FT. HORIZONTAL  
1 IN. = 10 FT. VERTICAL  
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

### TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY SAGUACHE COUNTY		ROADWAY CHAFFEE COUNTY	SUMMARY	LIN. FT.	MILES
	24' RDWY	36' RDWY	36' RDWY			
	LIN. FT.	LIN. FT.	LIN. FT.			
1515+00 BEGIN CONST. FO25-1(3)= END FO25-1(2)= STA. 1515+00 ON COMB. PROJ. F.A.P. 68F (1) & FL.H.P. 3B (1)				24' RDWY SAGUACHE CO.	11,000.0	2.083
				36' RDWY SAGUACHE CO.	6,504.9	1.232
				TOTAL SAGUACHE CO.	17,504.9	3.315
				36' RDWY CHAFFEE CO.	6,302.7	1.194
1625+00=END 24' RDWY=BEGIN 36' RDWY	11,000.0			PROJ. TOTAL (NET & GROSS LENGTH)	23,807.6	4.509
1627+83.0=END COMB. PROJ. F.A.P. 68F (1) & FL.H.P. 3B (1)= BEGIN COMB. PROJ. F.A.P. 68E (1) & FL.H.P. 3C (1)		283.0		DESIGN DATA		
1645+63.1 BK.= } EQUATION 1656+15.9 AH. }		1,780.1		MAXIMUM DEGREE OF CURVE	12° 00'	
1700+57.7 SAGUACHE CHAFFEE COUNTY LINE (SAN ISABEL NAT. FOREST BOUNDARY)		4,441.8		MAXIMUM GRADE	6.978%	
1758+25.8 BK.= } EQUATION 1758+55.4 AH. }			5,768.1	MINIMUM S.S.D.-HORIZONTAL	310 FT.	
1763+90 END CONST. FO25-1(3)= 1763+90 ON COMB. PROJ. F.A.P. 68E (1) & FL.H.P. 3C (1)			534.6	MINIMUM S.S.D.-VERTICAL	370 FT.	
TOTALS	11,000.0	6,504.9	6,302.7	MAXIMUM DESIGN SPEED	45 M.P.H.	



STA. 1763+900 END CONST. FO25-1(3)=  
STA. 1763+90 ON COMB. PROJ. F.A.P. 68E (1) & FL.H.P. 3C (1)

STA. 1515+00 BEGIN CONST. FO25-1(3)=  
END FO25-1(2)= STA. 1515+00 ON COMB. PROJ. F.A.P. 68F (1)  
& FL.H.P. 3B (1)

SEE SPECIAL PROVISIONS FOR  
NOTICE TO BIDDERS

DEPARTMENT OF HIGHWAYS  
STATE OF COLORADO

APPROVED: *[Signature]*  
CHIEF ENGINEER

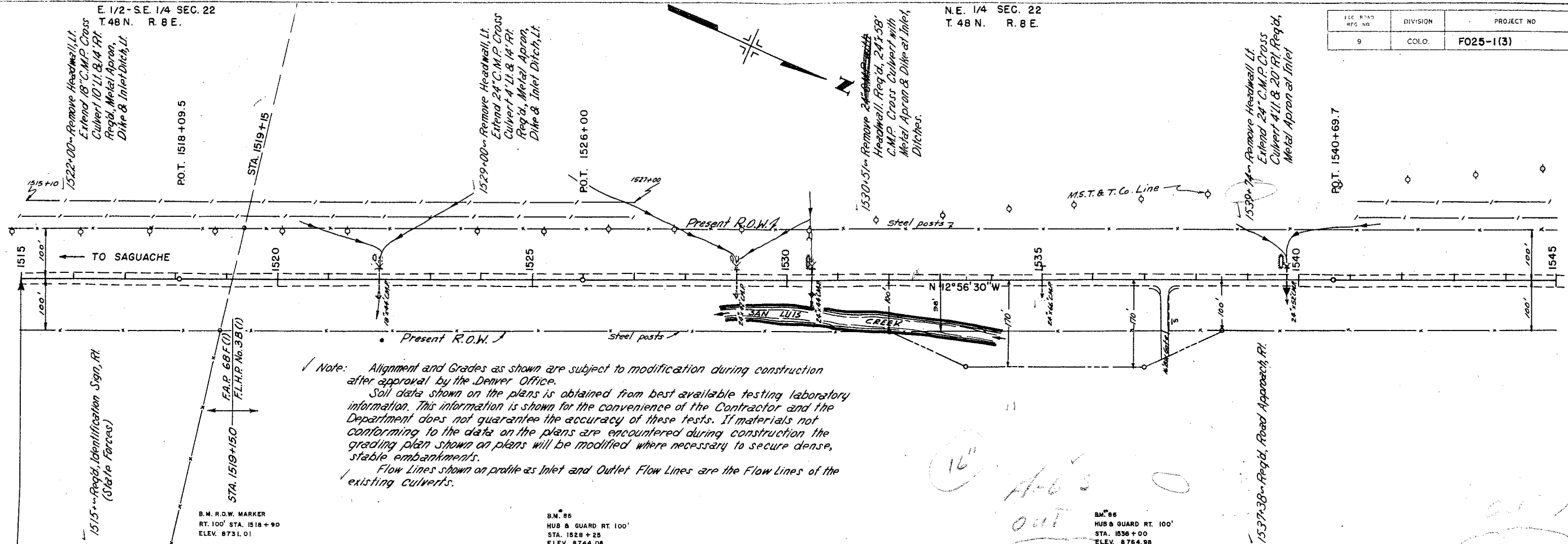
DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

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

E 1/2 - SE 1/4 SEC. 22  
T 48 N. R 8 E.

N.E. 1/4 SEC. 22  
T. 48 N. R. 8 E.

ICE R750 RFG. NO.	DIVISION	PROJECT NO.
9	COLO.	F025-1(3)



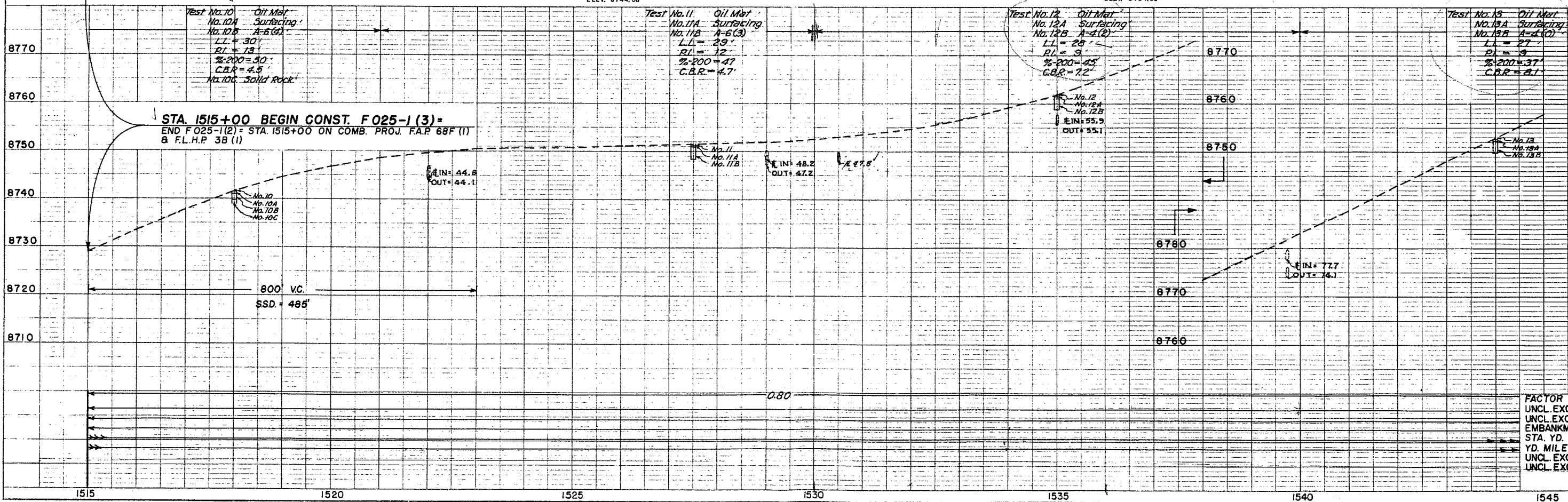
Note: Alignment and Grades as shown are subject to modification during construction after approval by the Denver Office.  
Soil data shown on the plans is obtained from best available testing laboratory information. This information is shown for the convenience of the Contractor and the Department does 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.  
Flow Lines shown on profile as Inlet and Outlet Flow Lines are the Flow Lines of the existing culverts.

1515+00 - Reg'd. Identification Sign, Rt. (State Forces)

B.M. R.O.W. MARKER  
RT. 100' STA. 1518+90  
ELEV. 8731.01

B.M. 85  
HUB & GUARD RT. 100'  
STA. 1528+25  
ELEV. 8744.08

B.M. 86  
HUB & GUARD RT. 100'  
STA. 1538+00  
ELEV. 8764.98



STA. 1515+00 BEGIN CONST. F025-1(3)  
END F025-1(2) = STA. 1515+00 ON COMB. PROJ. F.A.P. 68F(1)  
& FL.H.P. 3B(1)

Test No. 10 Oil Mat  
No. 10A Surfacing  
No. 10B A-5(6)  
LL = 30  
PI = 13  
%200 = 30  
C.B.R. = 4.5  
No. 10C Solid Rock

Test No. 11 Oil Mat  
No. 11A Surfacing  
No. 11B A-6(3)  
LL = 29  
PI = 12  
%200 = 47  
C.B.R. = 4.7

Test No. 12 Oil Mat  
No. 12A Surfacing  
No. 12B A-4(2)  
LL = 28  
PI = 9  
%200 = 45  
C.B.R. = 7.2

Test No. 13 Oil Mat  
No. 13A Surfacing  
No. 13B A-4(1)  
LL = 27  
PI = 9  
%200 = 37  
C.B.R. = 8.1

FACTOR  
UNCL. EXCA  
UNCL. EXCA  
EMBANKME  
STA. YD. O'  
YD. MILE C  
UNCL. EXCA  
UNCL. EXCA

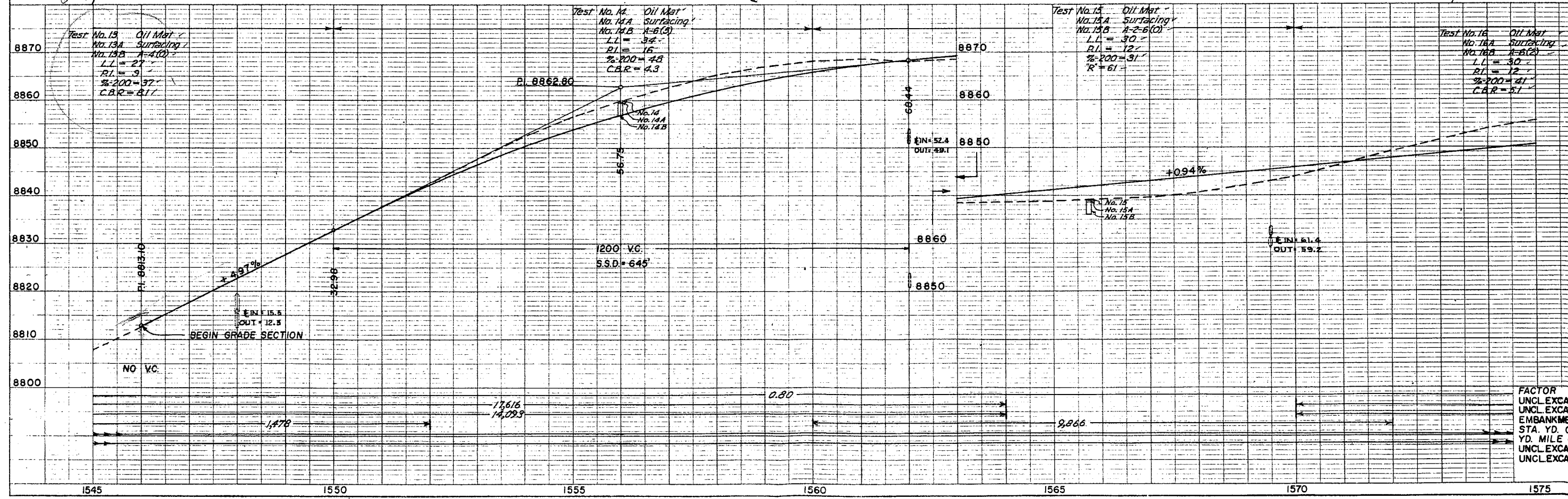
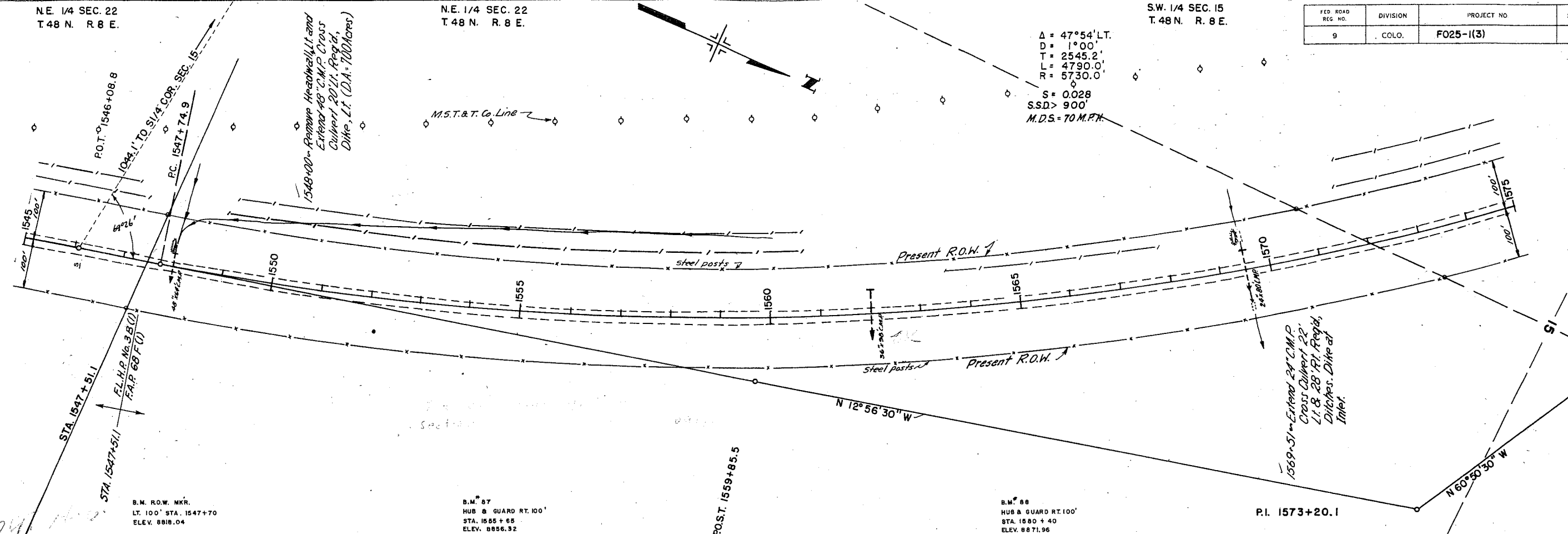
N.E. 1/4 SEC. 22  
T.48 N. R.8 E.

N.E. 1/4 SEC. 22  
T.48 N. R.8 E.

S.W. 1/4 SEC. 15  
T.48 N. R.8 E.

FED. ROAD REG. NO.	DIVISION	PROJECT NO.
9	COLO.	F025-1(3)

Δ = 47°54' LT.  
D = 1°00'  
T = 2545.2  
L = 4790.0  
R = 5730.0  
S = 0.028  
SSD > 900'  
M.D.S. = 70 M.P.H.



S.W. 1/4 SEC. 15  
T. 48 N. R. 8 E.

S. 1/2-N.W. 1/4 SEC. 15  
T. 48 N. R. 8 E.

FED. ROAD DIST. NO.	DIVISION	PROJECT NO.
9	COLO.	F025-1(3)

$\Delta = 47^{\circ}54' LT.$   
 $D = 1^{\circ}00'$   
 $T = 2545.2'$   
 $L = 4790.0'$   
 $R = 5730.0'$   
 $S = 0.028$   
 $S.S.D. > 900$   
 $M.D.S. = 70 M.P.H.$

1580+00<sup>+</sup> Reg'd. Road Appr.  
 Lt. with cattle Guard  
 (16' Roadway) and  
 Gate.

1593+40<sup>+</sup> Reg'd. Road Approach, Lt.

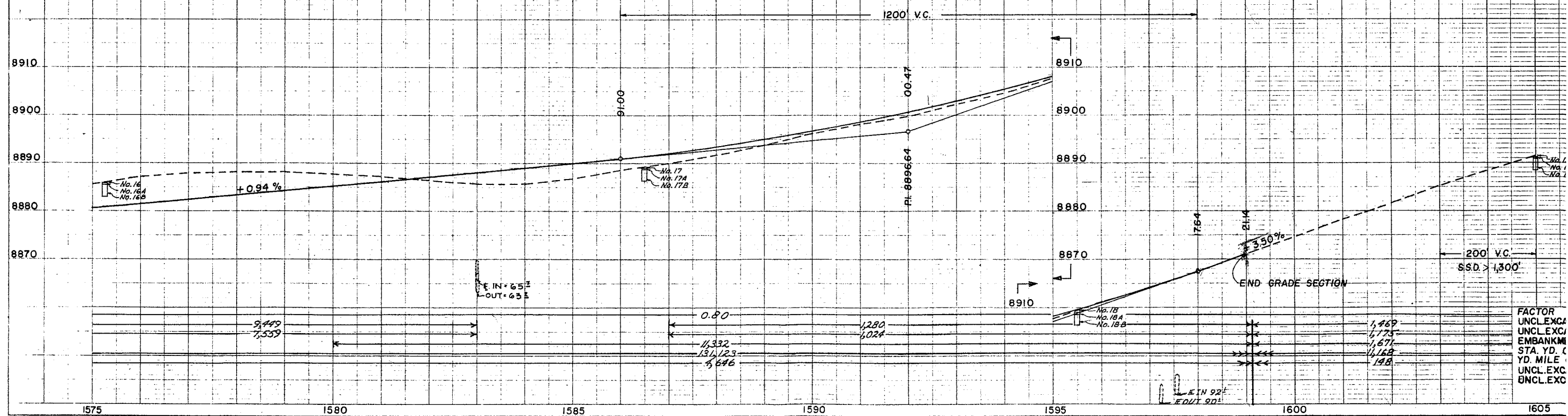
NE. 1/4 SEC. 15  
T. 48 N. R. 8 E.

B.M. 89  
 HUB & GUARD LT. 100'  
 STA. 1580+40  
 ELEV. 8884.13

B.M. 90  
 HUB & GUARD RT. 90'  
 STA. 1599+10  
 ELEV. 8916.11

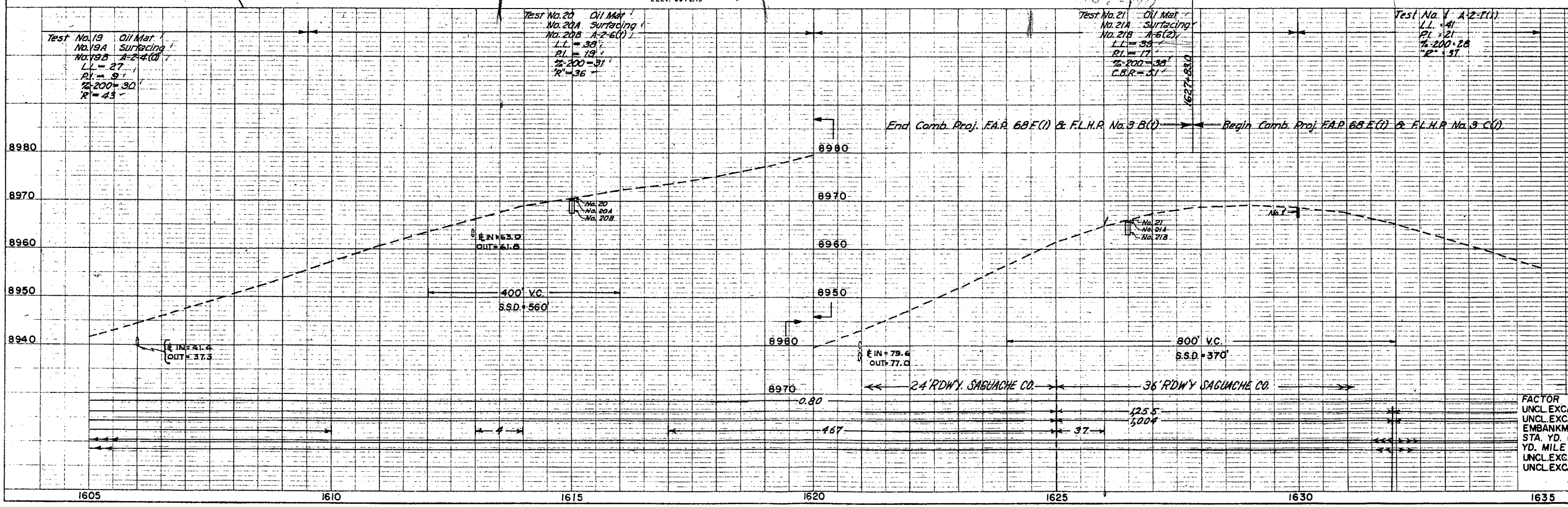
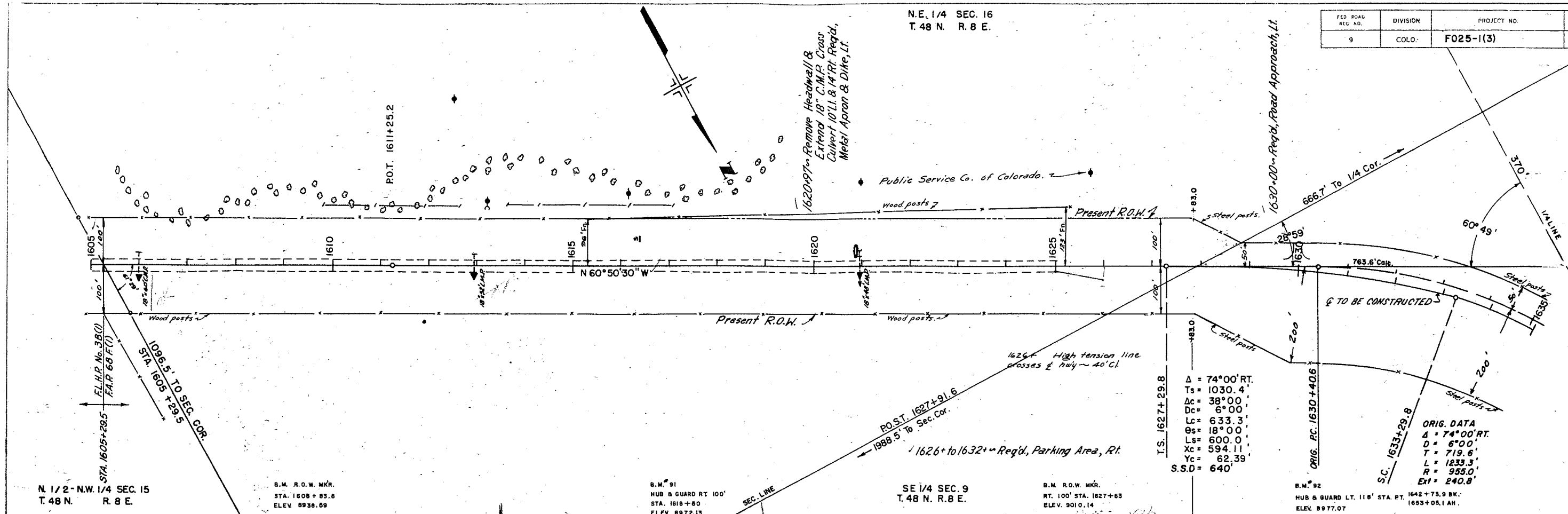
N. 1/2-N.W. 1/4 SEC. 15  
T. 48 N. R. 8 E.

Test No. 16 Oil Mat No. 16A Surfacing No. 16B A-6(2) LL = 30 PL = 12 % 200 = 41 C.B.R. = 51	Test No. 17 Oil Mat No. 17A Surfacing No. 17B A-7-6(17) LL = 60 PL = 39 % 200 = 66 C.B.R. = 23	Test No. 18 Oil Mat No. 18A Surfacing No. 18B A-7-6(2) LL = 48 PL = 26 % 200 = 46 C.B.R. = 32	Test No. 19 Oil No. 19A Silt No. 19B A-2 LL = 27 PL = 3 % 200 = 3 % 40 = 43
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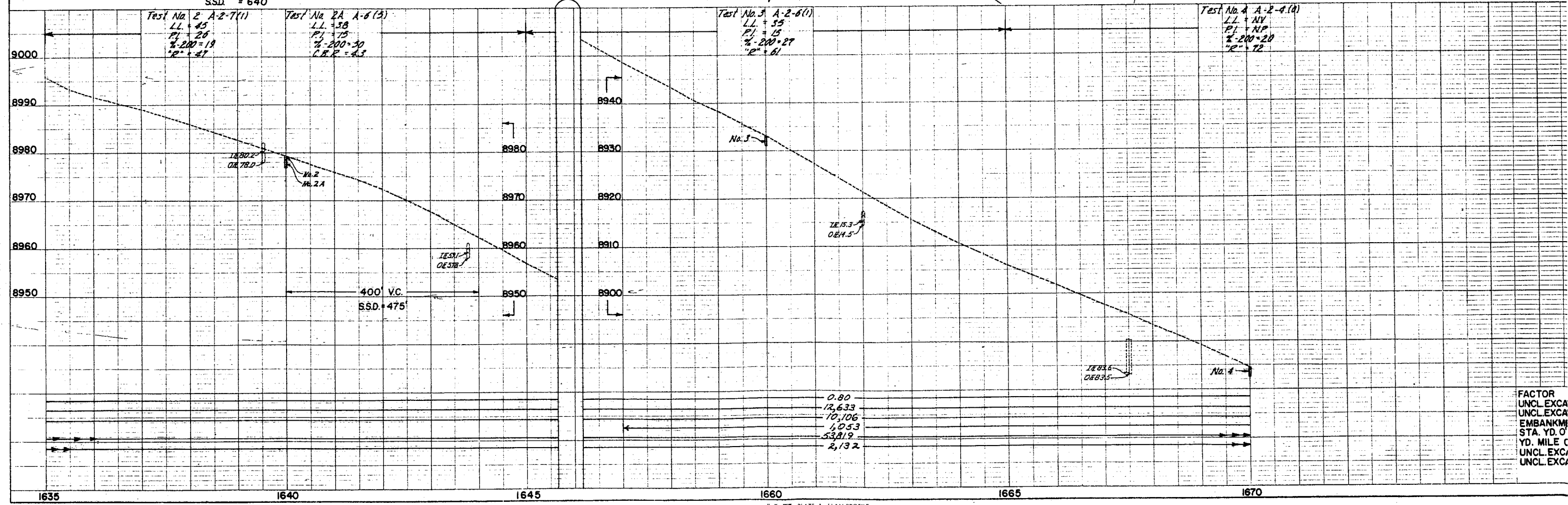
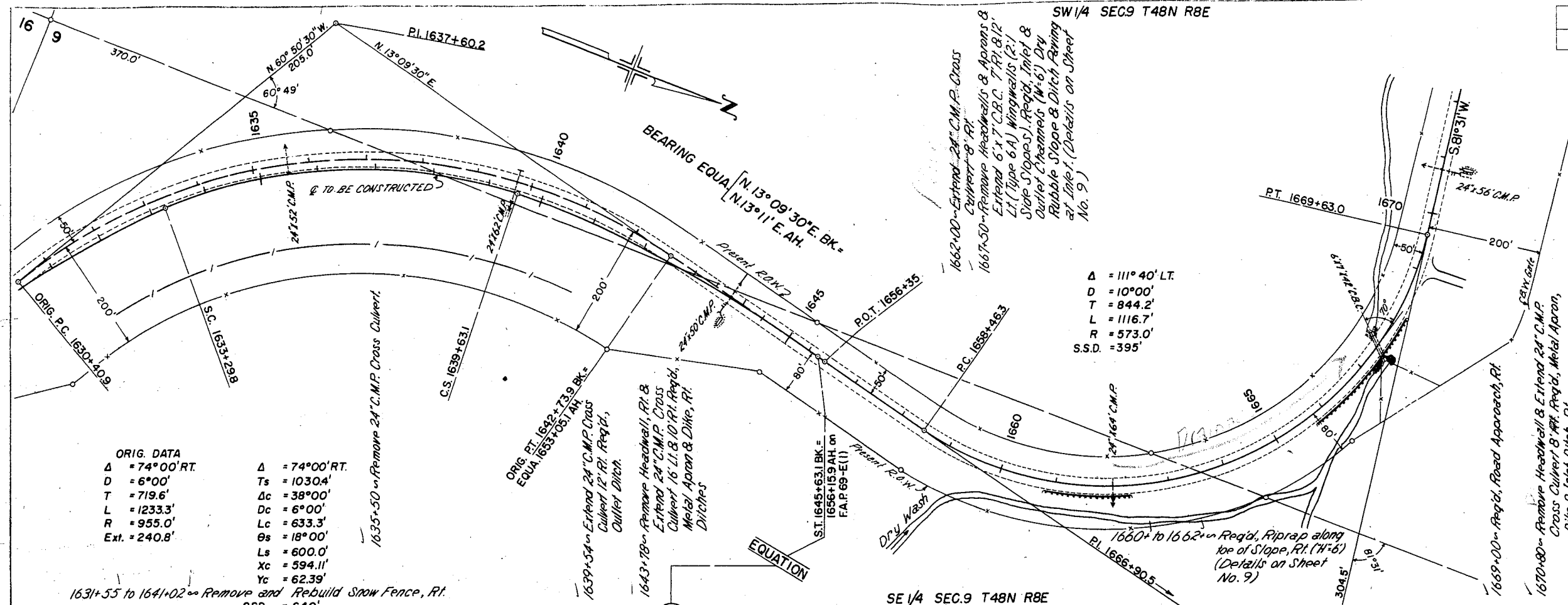


N.E. 1/4 SEC. 16  
T. 48 N. R. 8 E.

FED. ROAD REC. NO.	DIVISION	PROJECT NO.
9	COLO.	F025-1(3)



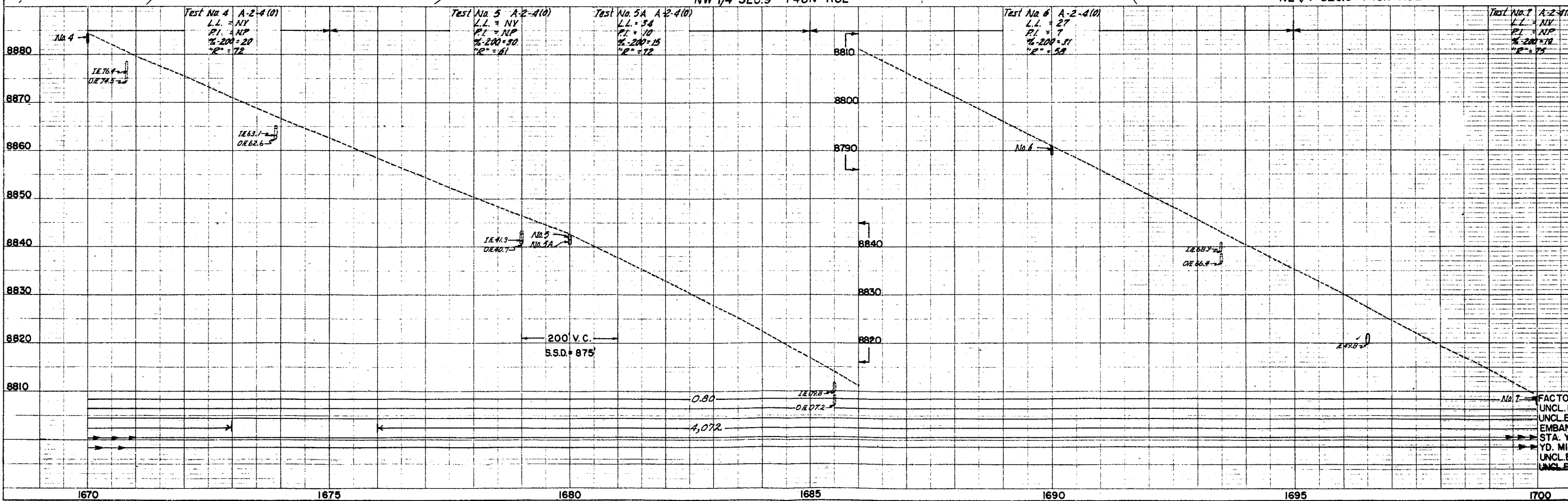
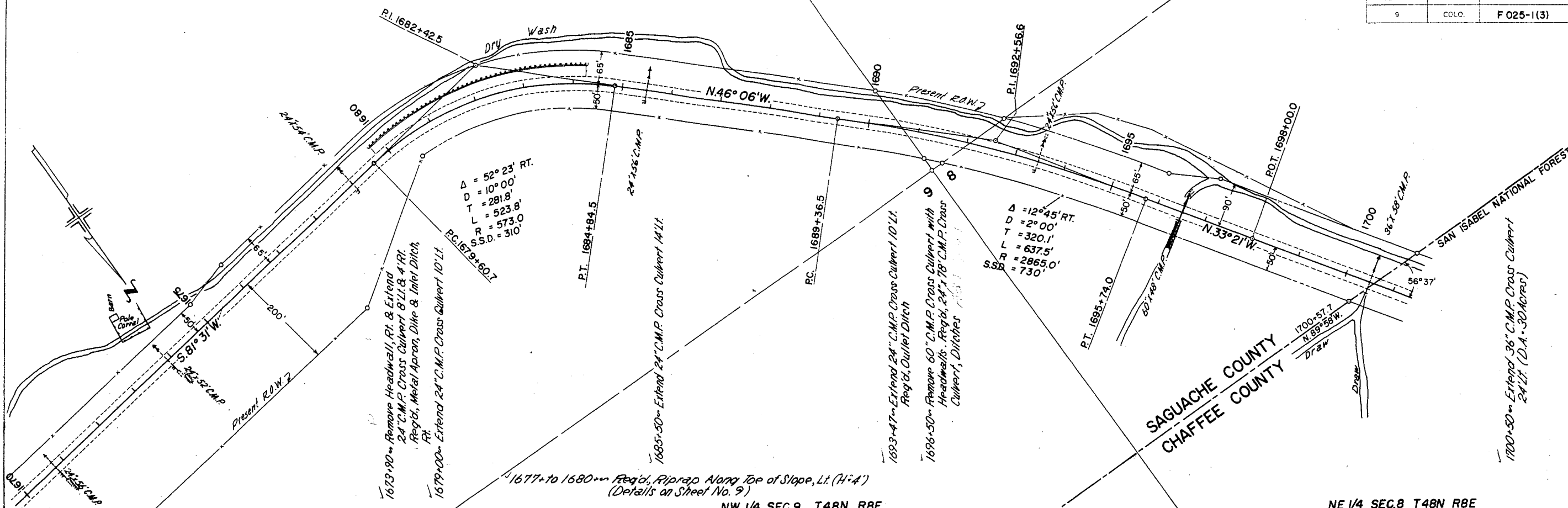
FILE NO.	DIVISION	PROJECT NO.
9	COLO.	F 025-1(3)



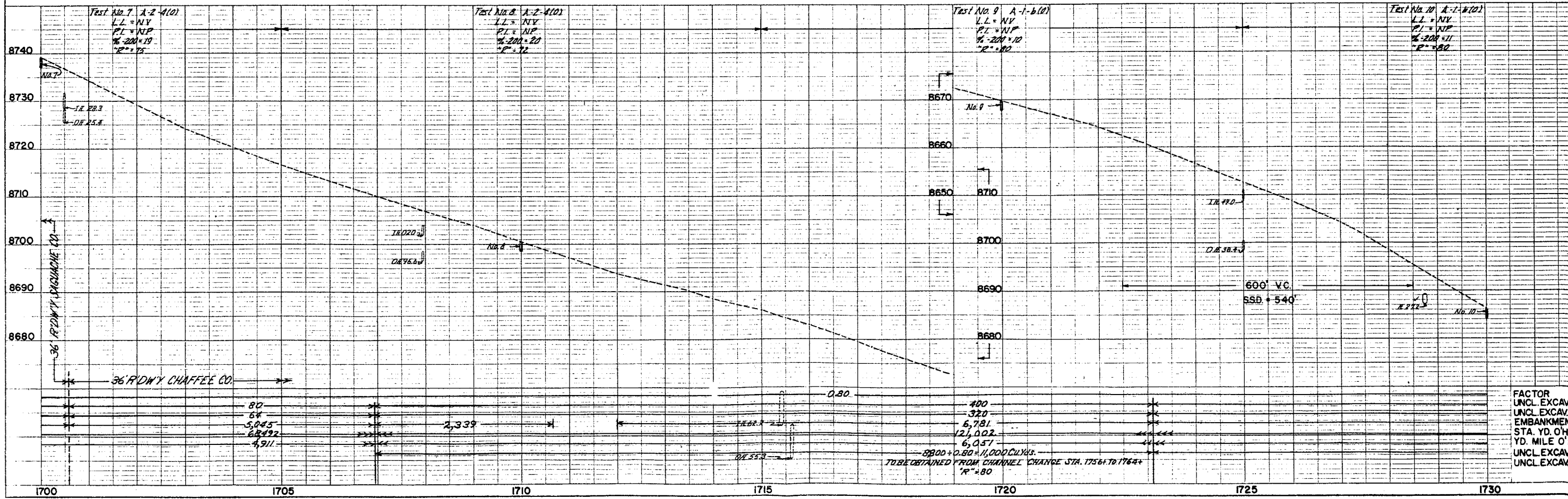
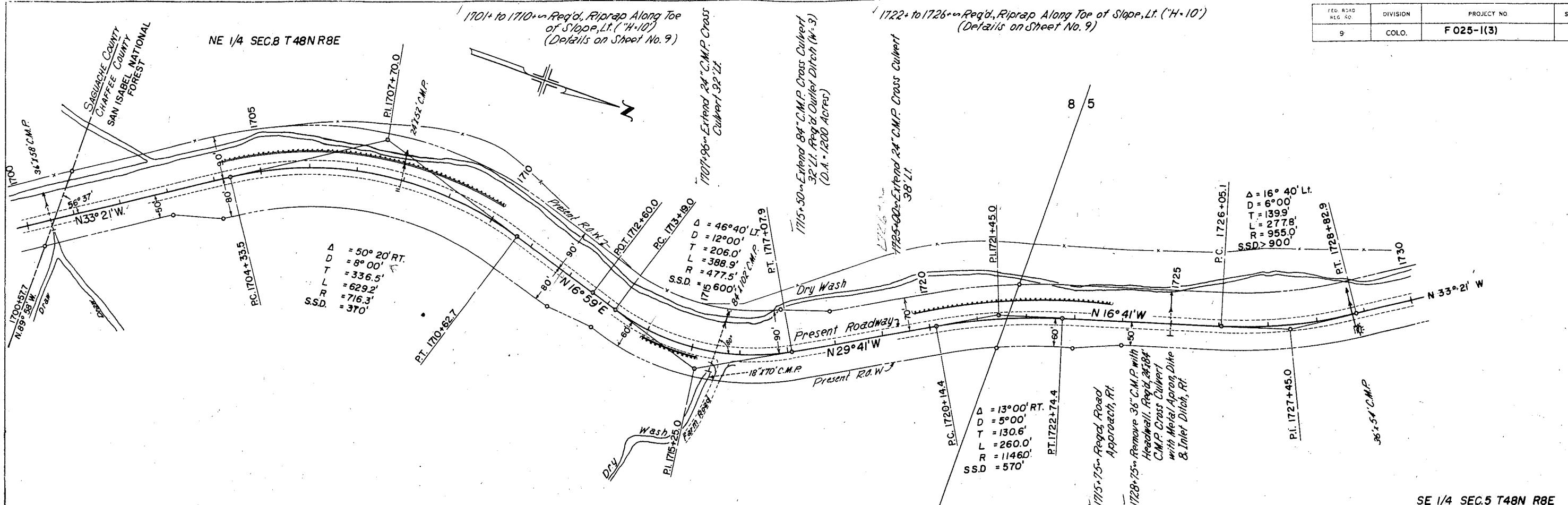
SW 1/4 SEC.9 T48N R8E

SE 1/4 SEC.8 T48N R8E

REG. NO.	DIVISION	PROJECT NO.	SI
9	COLO.	F 025-1(3)	



FED. ROAD REG. NO.	DIVISION	PROJECT NO.	ST.
9	COLO.	F 025-(13)	

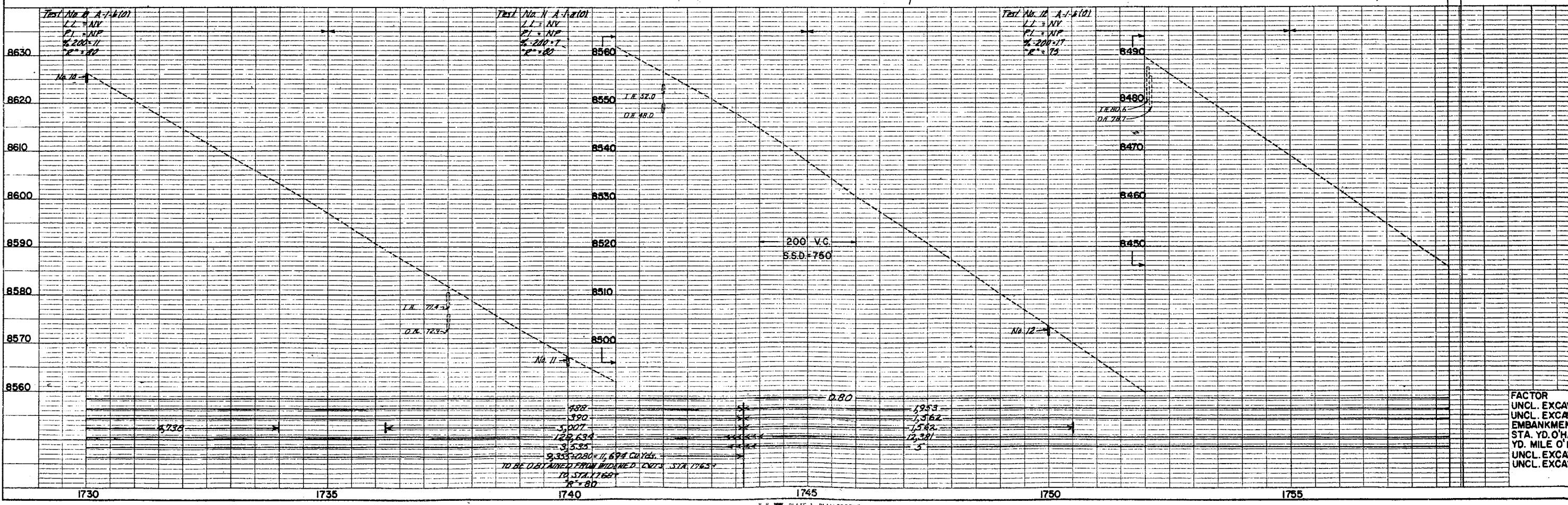
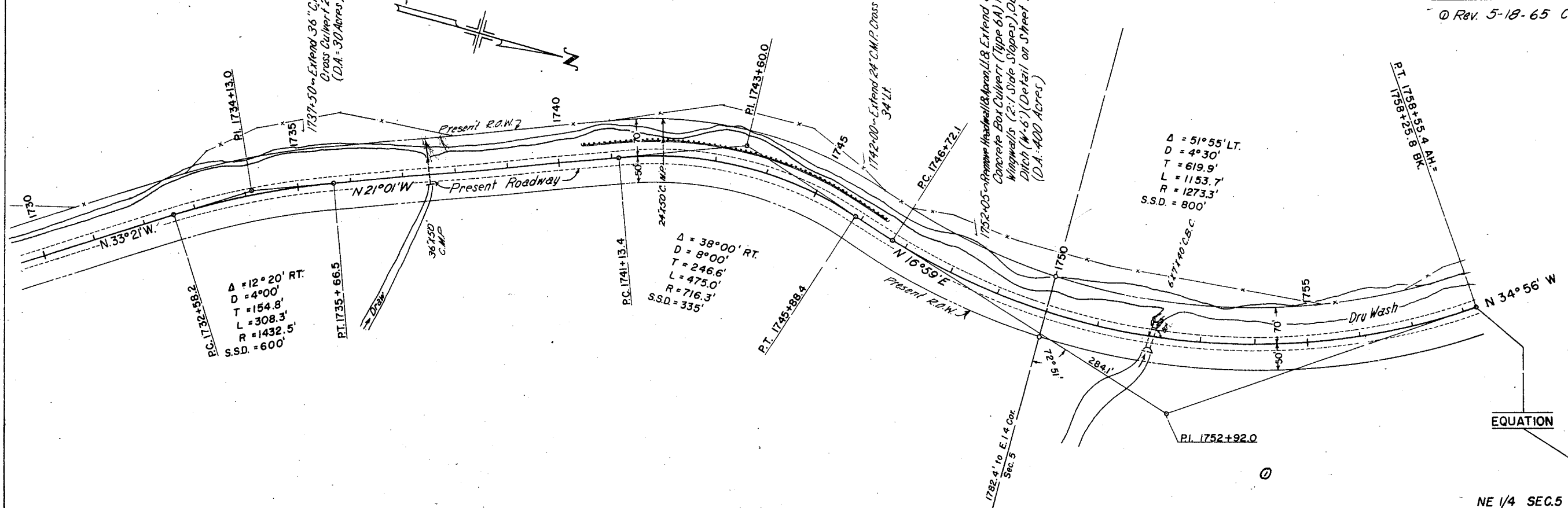


SE 1/4 SEC. 5 T48N R8E

1737+ to 1746+ in Reg'd. Riprap Along Top of Slope, Lt. (H-10)  
(Details on Sheet No. 9)

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SP
9	COLO.	F 025-1 (3)	

© Rev. 5-18-65 C.K.M.



FACTOR  
UNCL. EXCA  
UNCL. EXCA  
EMBANKMEN  
STA. YD. O'H  
YD. MILE O'I  
UNCL. EXCA  
UNCL. EXCA

NE 1/4 SEC.5 T48N R8E

SW 1/4 SE 1/4 SEC.32 T49N R8E

FED. ROAD REG. NO.	DIVISION	PROJECT NO.
9	COLO.	F 025-1(3)

Rev. 5-18-55, C.K.M.

1756+ to 1764+ - Reg'd. Channel Change Lt. (W=12') with Riprap Ditch Checks (Details on Sheet No. 9)

1763+ Reg'd. Identification Sign, Lt. (State Forces)

1764+ - Reg'd. Riprap along Poncha Creek Lt. (A-10) (Details on this Sheet)

Easement for Channel Change 2

Channel Change 2

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

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10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

10' Curve Present Zone

EQUATION

PT. 1758+55+41.4H = 1758+55+9K

DOUBLE 10' 6" x 12" C.B.C.

10' Curve

10' Curve

10' Curve

10' Curve

10' Curve

10' Curve

10' Curve

10' Curve

10' Curve

10' Curve

10' Curve

10' Curve

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10' Curve

10' Curve

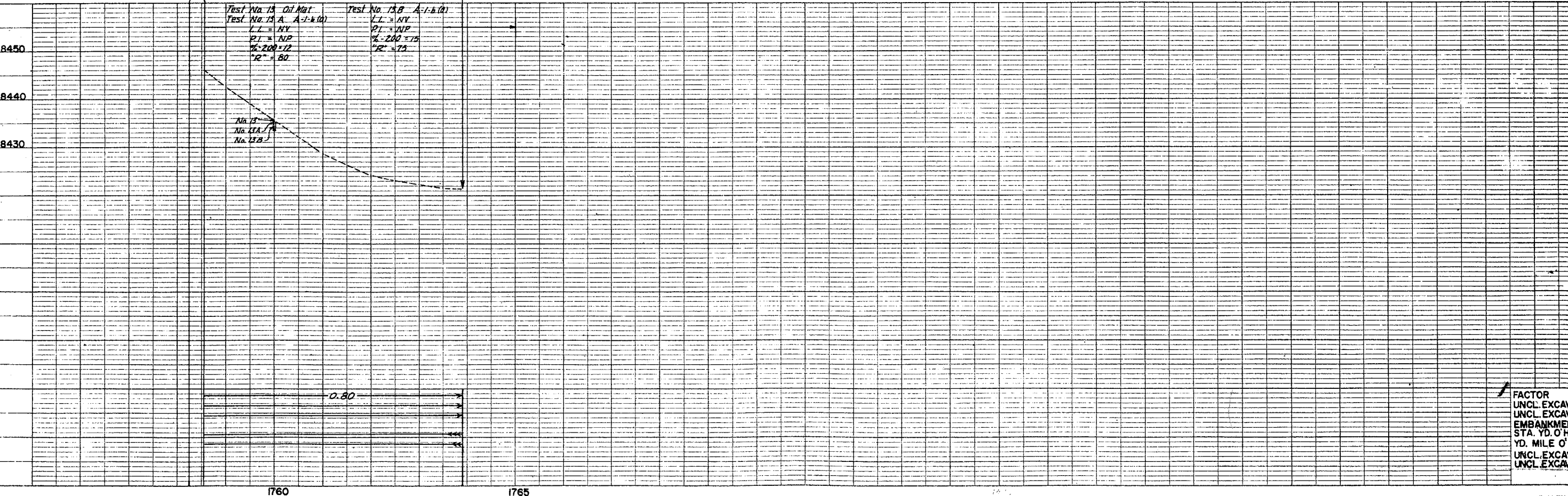
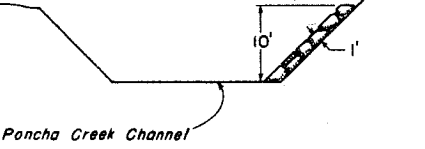
10' Curve

10' Curve

10' Curve

STA. 1763+90.0 END CONST. F 025-1(3) = STA 1763+90.0 ON COMB. PROJ. F.A.P. 68E(1) & F.L.H.P. 3C(1)

DETAILS OF RIPRAP Sta. 1764+ Lt.



FACTOR UNCL. EXCAV UNCL. EXCAV EMBANKMEN STA. YD. O'H YD. MILE O'I UNCL. EXCAV UNCL. EXCAV