

COLORADO
DEPARTMENT OF HIGHWAYS
PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. S 0001(14)
STATE HIGHWAY NO. 51 (385)
CHEYENNE COUNTY

FEDERAL ROAD DIVISION NO	DISTRICT	PROJ NO	SHEET NO	TOTAL SHEETS
9	COLORADO	S 0001(14)	1	1

CONVENTIONAL SIGNS

CENTER LINE	PLAN SHEET	TITLE & SHEET
RIGHT OF WAY LINE	ROW MARKER	
COUNTY LINE		
TOWNSHIP OR RANGE LINE		
LAND LINES	SECTION LINE	1/4 SECTION LINE
RAILROAD	TITLE SHEET	PLAN SHEET
BARBED WIRE FENCE		
COMBINATION WIRE FENCE		
SNOW FENCE		
TELEPHONE & TELEGRAPH LINES		
POWER LINE		
DETOUR		
PRESENT ROAD (Plan Sheets)		

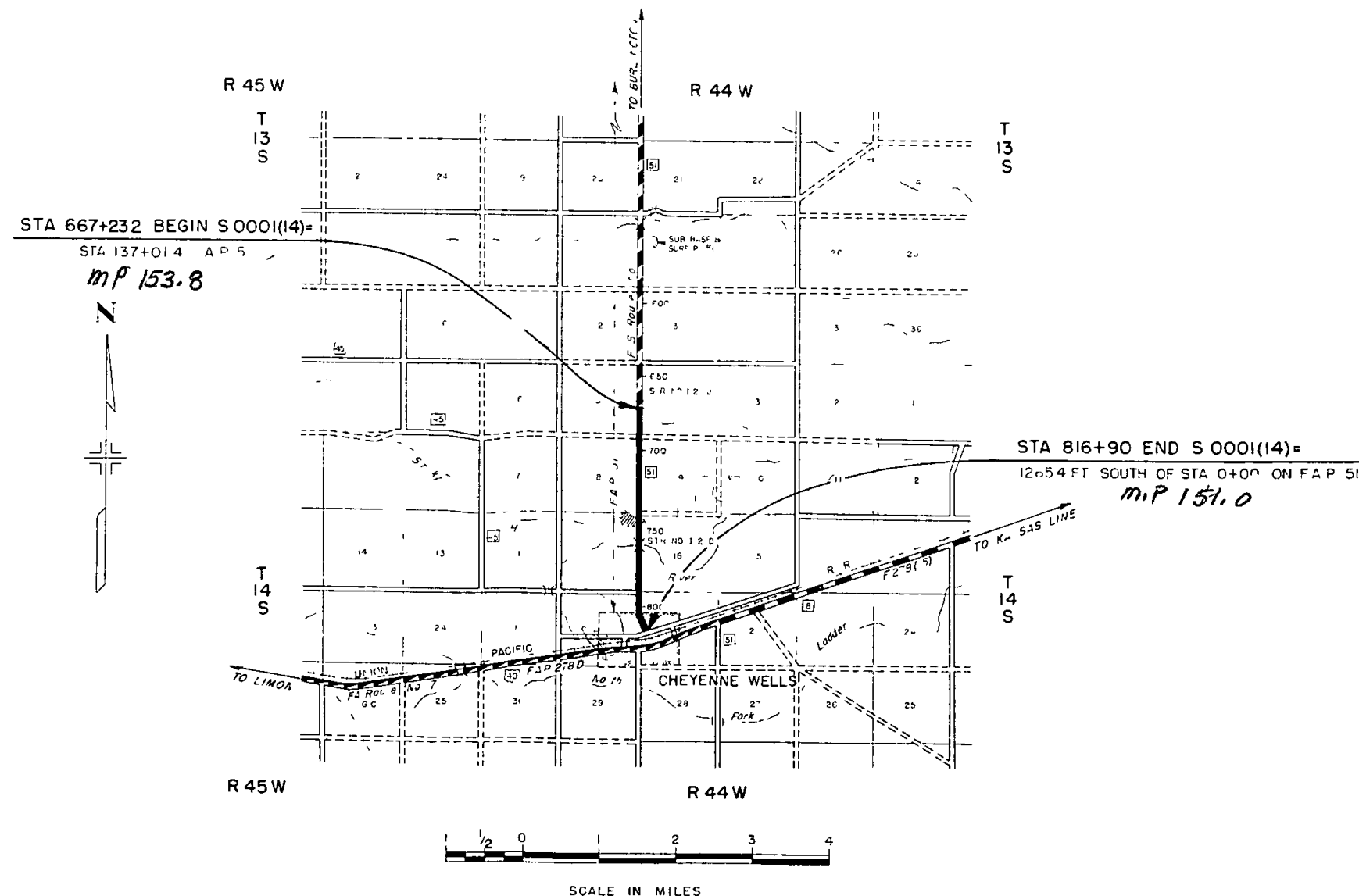
INDEX OF SHEETS

SHEET NO	DESCRIPTION	REFERENCE
1	SKETCH MAP, TITLE PAGE AND TABULATION OF LENGTH AND DESIGN DATA	
2	TYPICAL SECTIONS, SUMMARY OF APPROXIMATE QUANTITIES	
3	GENERAL NOTES AND TABULATION OF GUARD POSTS	
4	SURFACING PLAN, SUB-BASE MATERIAL PLAN, LIST OF STRUCTURES AND PIT LOCATION	
5	STANDARD MARKER POSTS	M-7-B
6	STANDARD HEADWALLS AND APRONS FOR CMP CULVERTS	M-102-G
7	STANDARD TIMBER GUARD POSTS	M-19-C
8	STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES	M-1-B
9	STANDARD SIDE APPROACH ROADS, FLARING CUT SLOPE TREATMENT AND WIDENING AT BRIDGES AND AT CREST OF GRADES	M-2-DM
10	STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS	M-2-DS
11	STANDARD TYPES OF DITCHES AND CONSTRUCTION METHODS	M-107-C
11-16	ALIGNMENT PLAN AND PROFILE	
17-48	CROSS SECTIONS	
49	SUMMARY OF EARTHWORK QUANTITIES	

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 (BASE) OF FINISHED ROAD			
GROSS LENGTH OF PROJECT 14,966.8 FT = 2.835 MILES			
NET LENGTH OF PROJECT			

TABULATION OF LENGTH & DESIGN DATA

STATION	ROADWAY		BRIDGE	
	CHEYENNE WELLS		LOADING	LIN FT
	OUTSIDE	INSIDE		
	LIN FT	LIN FT		
667+232 Begin S 0001(14)- STA 137+014 on F A P 51				
766+341 } 766+832 } Bridge	9,910.9			49.1
804+246 Cheyenne Wells City Limits - STA 0+00 on F A P 51	3,741.4			
816+90 End S 0001(14) 1,265.4 Ft South of STA 0+00 on F A P 51		1,265.4		
TOTALS	13,652.3	1,265.4		49.1
SUMMARY	LIN FT		MILES	
S 0001(14) Roadway(Inside Cheyenne Wells)	1,265.4		0.240	
S 0001(14) Roadway(Outside Cheyenne Wells)	13,652.3		2.586	
S 0001(14) Bridge(Outside Cheyenne Wells)	49.1		0.009	
TOTALS	14,966.8		2.835	
DESIGN DATA				
MAXIMUM DEGREE OF CURVE	4°00			
MAXIMUM GRADE	4.8%			
MINIMUM N P S D - HORIZONTAL	> 1300			
MINIMUM N P S D - VERTICAL	450			
MAXIMUM DESIGN SPEED	310' (CITY SECTION)			
	50 MPH			
	40 MPH (CITY SECTION)			



NOTICE TO BIDDERS
IT IS RECOMMENDED THAT BIDDERS ON THIS PROJECT GO OVER THE PLAN DETAILS WITH ONE OF THE FOLLOWING FIELD REPRESENTATIVES OF THIS DEPARTMENT
G M ELDOWNEY CONSTRUCTION ENGINEER
DENVER, COLO
T H KILPATRICK PROJECT ENGINEER
BURLINGTON, COLO

COLORADO DEPARTMENT OF HIGHWAYS	
APPROVED	
CHIEF ENGINEER	DATE

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
RECOMMENDED FOR APPROVAL	
DISTRICT ENGINEER	DATE
APPROVED	
DIVISION ENGINEER	DATE

NW 1/4 Section 4
T14S, R44W

FED ROAD DIV NO	DISTRICT	F A S PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO	S 0001(14)	11	1

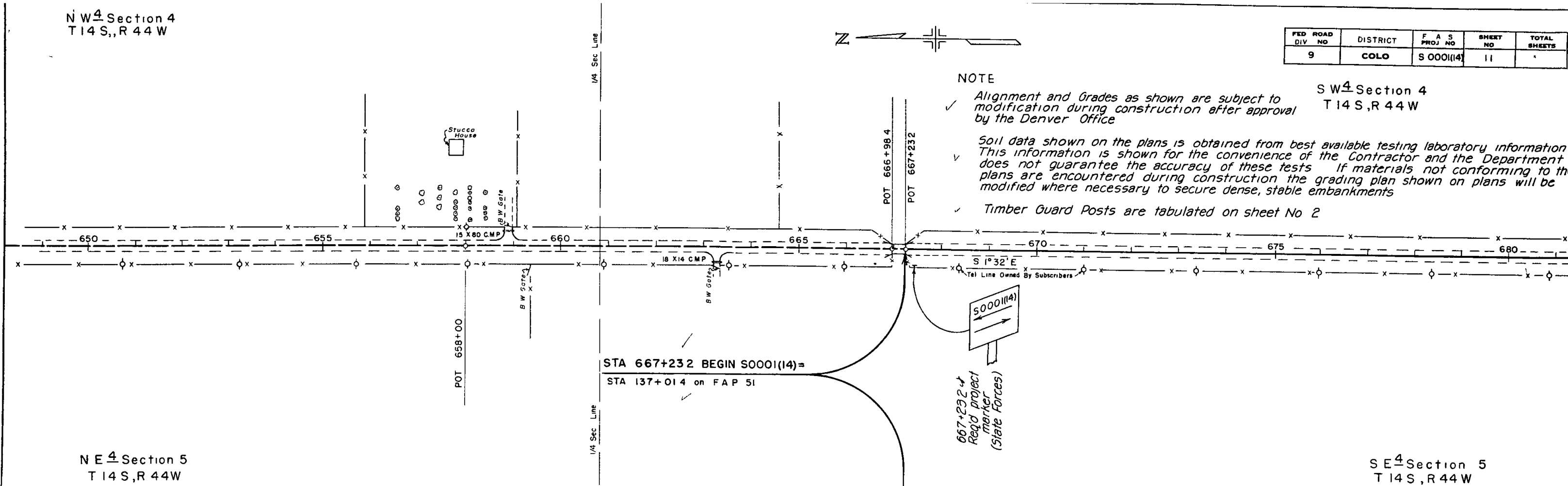
SW 1/4 Section 4
T14S, R44W

NOTE

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

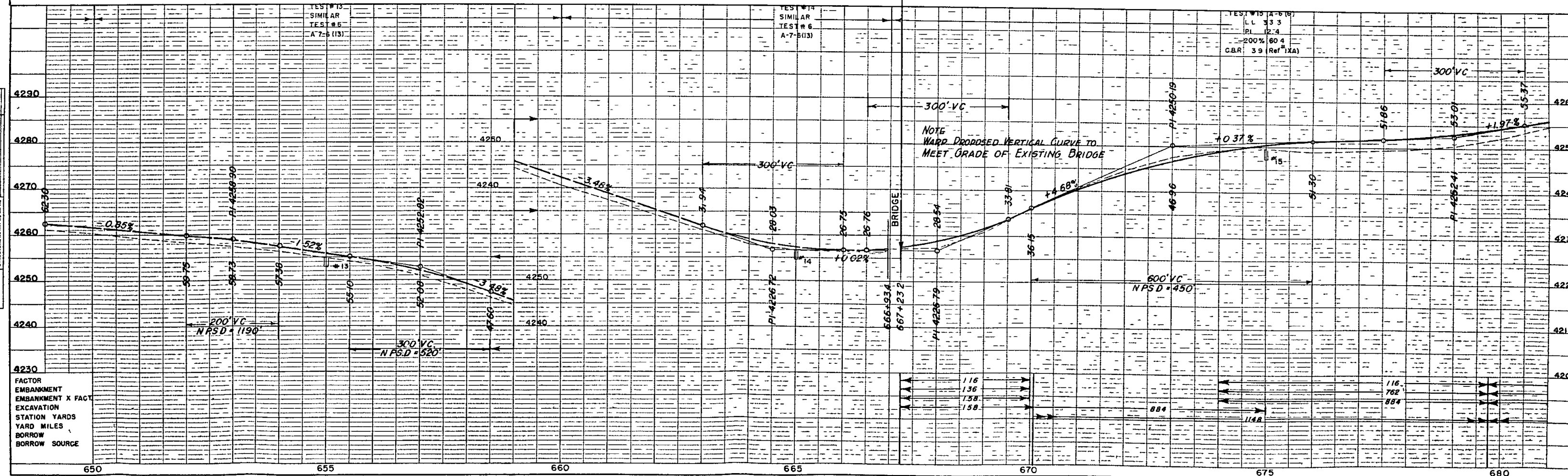
Soil data shown on the plans is obtained from best available testing laboratory information. This information is shown for the convenience of the Contractor and the Department does not guarantee the accuracy of these tests. If materials not conforming to the plans are encountered during construction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

Timber Guard Posts are tabulated on sheet No 2



NE 1/4 Section 5
T14S, R44W

SE 1/4 Section 5
T14S, R44W



FACTOR
EMBANKMENT
EMBANKMENT X FACT
EXCAVATION
STATION YARDS
YARD MILES
BORROW
BORROW SOURCE

SW 1/4 Section 4
T14S, R44W

NW 1/4 Section 9
T14S, R44W

SE 1/4 Section 5
T14S, R44W

NE 1/4 Section 8
T14S, R44W

FED. ROAD DIV. NO.	DISTRICT	F. A. S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO	S 0001 (14)	12	

710+30 - Req'd 18'x26'
side drain & road app. Lt

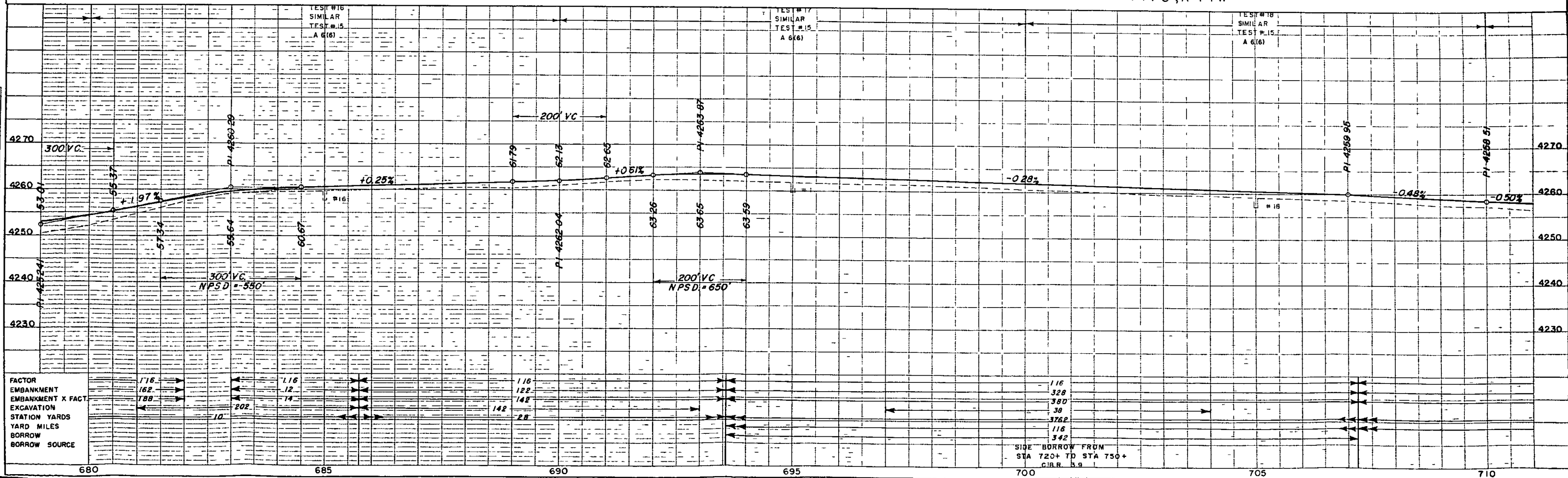
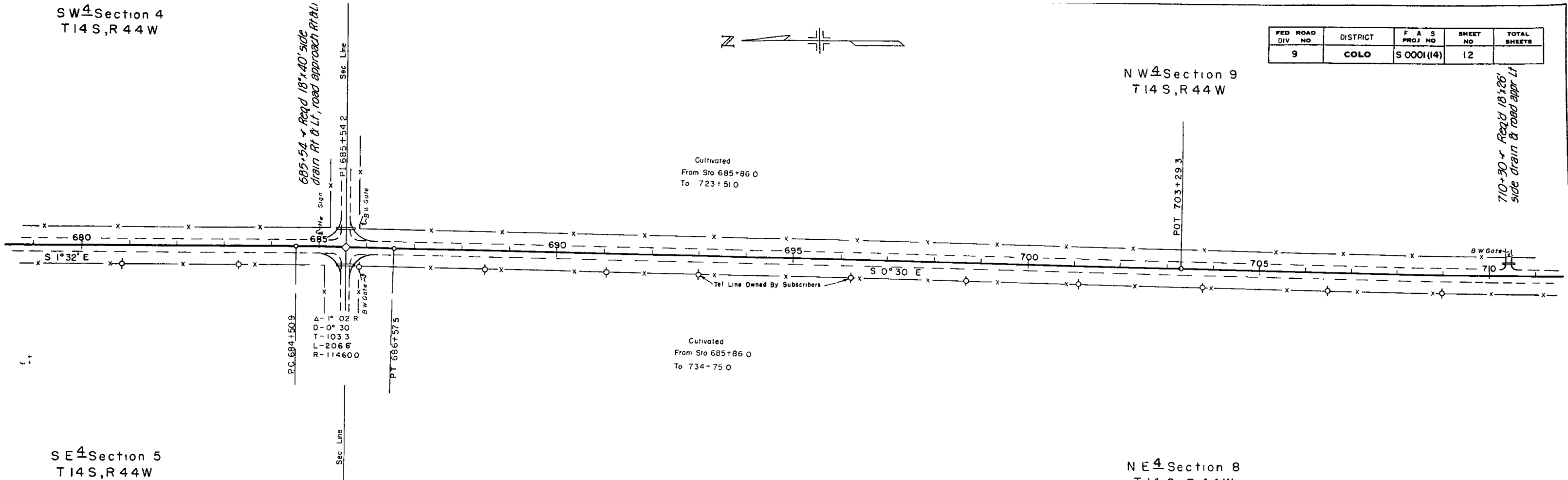
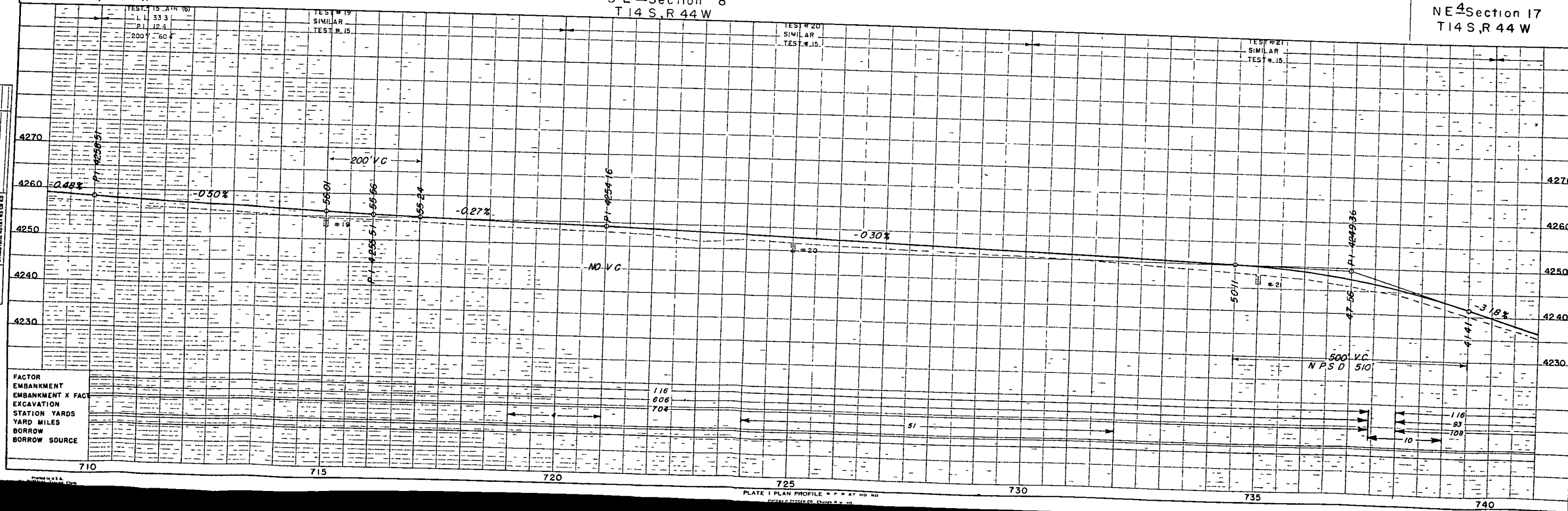


PLATE 1 PLAN PROFILE & BY ROAD

NW⁴Section 16
T14S,R44W

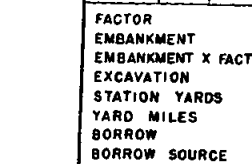
SE ⁴ Section 8
T 14 S, R 44 W

NE ⁴ Section 17
T14 S, R 44 W



PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	ALIGNMENT CHECKED		
NO	RT OF WAY CHECKED		

PLAN	NO
NOTE BOOK	NO
SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTED	
CH NO	



FED ROAD DIV NO	DISTRICT	F A S PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO	S 0001(14)	15	

SW 4 Section 16
T 14 S, R 44 W

NW 4 Section 21
T 14 S, R 44 W

SE 4 Section 17
T 14 S, R 44 W

NE 4 Section 20
T 14 S, R 44 W

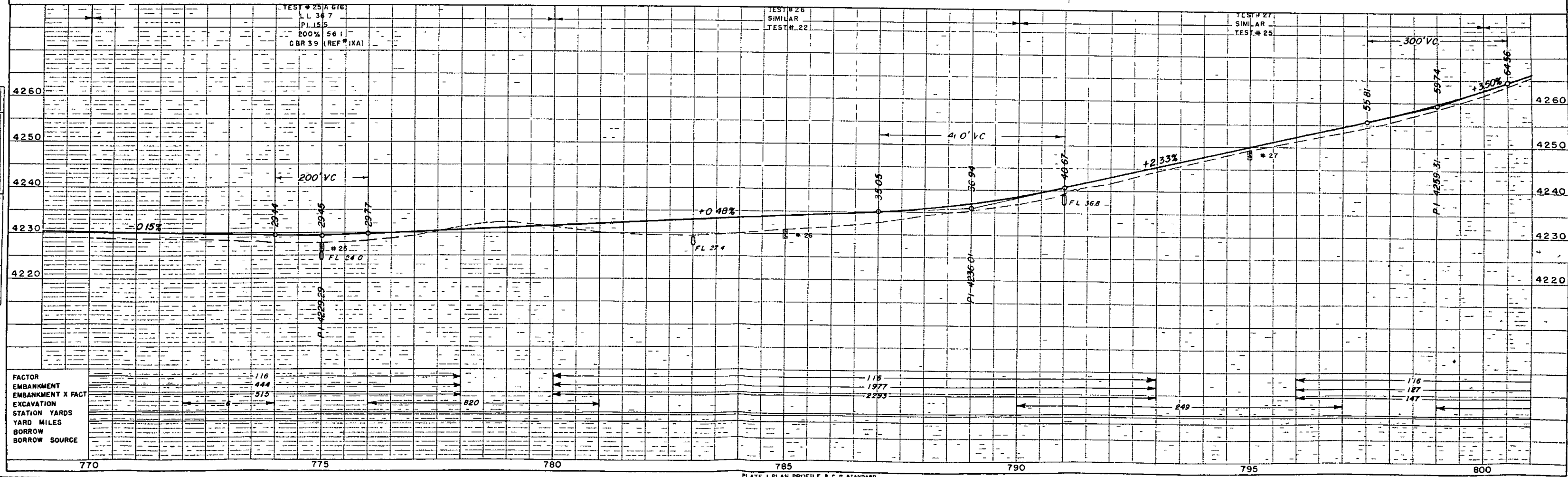
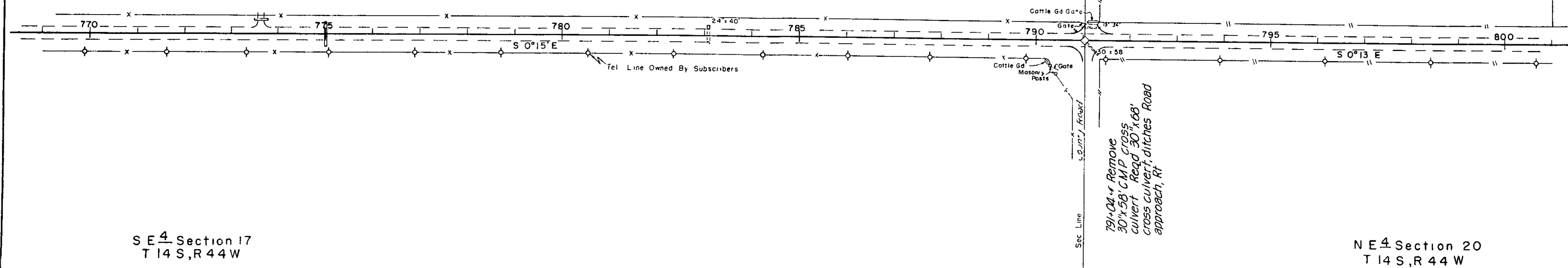
773+16 -> Req'd 18"x28'
side drain to road
approach Lt

775+00 -> Req'd 24"x52'
cross culvert, ditches

783+10 ->
Remove 24"x40' cross
culvert. Req'd
24"x48' cross
culvert

791+21 -> Req'd
road approach
Lt

791+04 -> Remove
30"x58' C.M.P. cross
culvert. Req'd 30"x68'
cross culvert, ditches Road
approach, Rt



FACTOR	EMBANKMENT	EMBANKMENT X FACT	EXCAVATION	STATION	YARDS	YARD MILES	BORROW SOURCE
116	444	515					

CHEYENNE WELLS

S W⁴ Section 21
T14S,R 44W

