

Rev. 3-7-62 - Index - D.H.H.

COLORADO

DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

FEDERAL AID PROJECT NO. S 0074 (1)

STATE HIGHWAY NO. 56

LARIMER & WELD COUNTIES



SCALES OF ORIGINAL DRAWINGS

ON PLAN. 1 IN. = 100 FT.

ON PROFILE 1 IN. = 10 FT. HORIZONTAL

ON PROFILE 1 IN. = 10 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

AS CONSTRUCTED PLANS
RETURN TO DIST. 4 DESIGN

CONVENTIONAL SIGNS



STA. 30+71 BEGIN S 0074 (1)
R.O.W. ONLY

TABULATION OF LENGTH & DESIGN DATA

STATION	LARIMER COUNTY		WELD COUNTY	
	R.O.W. ONLY	24 FT. ROADWAY	24 FT. ROADWAY	24 FT. ROADWAY
30+71 BEGIN S 0074 (1) R.O.W. ONLY	2,640.3			
57+11.3 { BEGIN GRADING LARIMER CO. AND WELD CO. LINE 165+05.9 BK. = 165+03.2 A.H. EQUATION 251+52.5 END S 0074 (1) 1,250' WEST OF STA. 386+96.6 ON I-25-3(21) 244		10,794.6 8,649.3		
SUB - TOTAL	2,640.3	19,443.9		
SUMMARY				
R.O.W. ONLY (LARIMER COUNTY)	2,640.3	0.500		
24 FT. ROADWAY (WELD COUNTY)	19,443.9	3.683		
GROSS LENGTH OF PROJECT	22,084.2	4.183		
DESIGN DATA				
MAXIMUM DEGREE OF CURVE	0° 45'			
MAXIMUM GRADE	3.49%			
MINIMUM S.S.D. VERTICAL	610 FT.			
MINIMUM S.S.D. HORIZONTAL	> 1,300 FT.			
MAXIMUM DESIGN SPEED	70 M.P.H.			

INDEX OF SHEETS

- SHEET NO.
- 1' SKETCH MAP, TITLE PAGE AND TABULATION OF LENGTH & DESIGN DATA.
 - 2' TYPICAL SECTION, GENERAL NOTES & SUMMARY OF EARTHWORK.
 - 3' SUMMARY OF APPROXIMATE QUANTITIES, TIMBER GUARD POSTS, R.O.W. MARKERS AND DETAILS OF CONCRETE DITCH LINING.
 - 4-5' LIST OF STRUCTURE QUANTITIES.
 - 6' PIT INFORMATION, DETAILS OF CONCRETE DIVISION BOX, STA. 215+8
 - 7' PIT INFORMATION, SURFACING PLAN, SUB-BASE PLAN AND FENCING REQUIREMENTS.
 - 8' DETAILS OF DIVISION BOX STA. 187+95 AND DETAILS OF INSPECTION BOX STA. 143+40.
 - 9' STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES (CROWNED HIGHWAYS).
 - 10' STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT AND WIDENING AT BRIDGES AND AT CREST OF GRADES.
 - 11' STANDARD MARKER POSTS AND BENCH MARKS.
 - 12' STANDARD TIMBER GUARD POSTS.
 - 13-13A' STANDARD WIRE FENCES AND GATES.
 - 14-15' STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS.
 - 16' STANDARD IDENTIFICATION SIGNS.
 - 17' STANDARD CONCRETE INLET FOR MEDIAN DITCH.
 - 18' STANDARD METHODS OF BACKFILL AROUND STRUCTURES.
 - 19' STANDARD HEADWALLS AND APRONS FOR CMP CULVERTS.
 - 20' STANDARD TYPES OF DITCHES AND CONSTRUCTION METHODS.
 - 21' REINFORCED CONCRETE PIPE.
 - 22' STANDARD FLARED END SECTION AND 7*30' ANGLE SECTION.
 - 23' STANDARD SIPHON CORRUGATED GALVANIZED IRON PIPE WITH CONCRETE INLET AND OUTLET BOXES. M-123-E ALIGNMENT PLAN AND PROFILE.
 - 24-31' STRUCTURE CROSS SECTIONS.
 - 32-37' WIDENED CUT CROSS SECTIONS.
 - 38-46' STA. 251+52.5 END S 0074 (1)

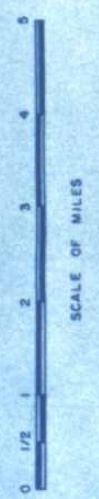
1,250' WEST OF STA. 386 + 96.6 ON I-25-3(21) 244

SEE SPECIAL PROVISIONS FOR NOTICE TO BIDDERS.

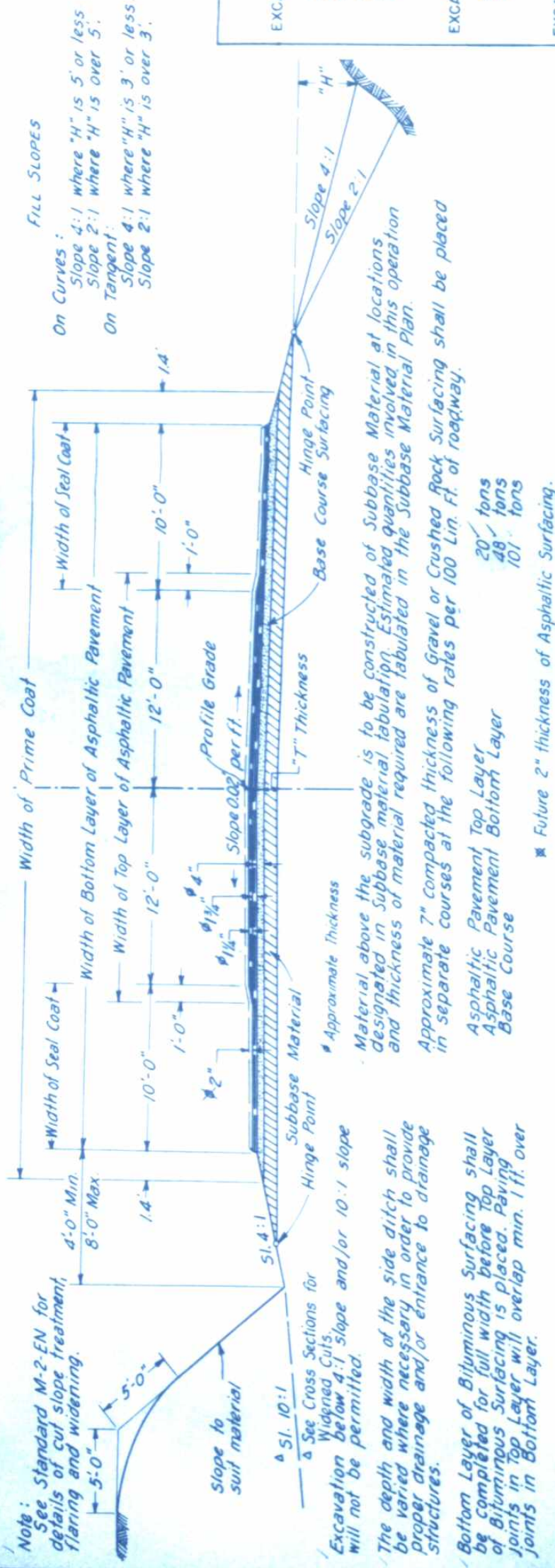
COLORADO
DEPARTMENT OF HIGHWAYS
APPROVED: *Maud T. Perkins* 11-27-61
CHIEF ENGINEER
DATE



DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED: _____
DATE _____
DIVISION ENGINEER



TYPICAL CROSS SECTION OF IMPROVEMENT



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.

All poles encroaching on construction are to be moved by the owners.

For preliminary plan quantities of Asphaltic Road Materials and Stone Screenings, the following rates of application were used.

PRIME COAT MC
PAVING ASPHALT (120-150' Penetration)
SEAL COAT RC (Forlified)
STONE SCREENINGS (TYPE I)

@ '0.40 Gals. per Sq. Yd.
@ '6.40 Lbs. per Sq. Yd. per inch.
@ '0.35 Gals. per Sq. Yd.
@ '24 Lbs. per Sq. Yd.

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

It is estimated that old road is to be obliterated at the following locations: 69+ to 74+.

The force account item "Clearing of Building Sites, etc." shall include removal of all foundations, wells, outhouses and other appurtenances not removed by the owner, and any necessary backfilling of cellars, cess. pools, wells, etc., to provide neat road-side conditions. It is estimated that this applies at the following locations: 57+, Rt. 196+, Rt. 224+, Rt. 41+, Rt.

Road approaches which require plant mixed asphalt surfacing in the "Structure List" shall be primed and a 1 1/2" thickness of asphaltic surfacing placed as follows:

aspirating surfacing placed as follows:

Public Approaches and approaches to houses and appurtenances to be surfaced 50 ft out from edge of shoulder or to the R.O.W. line, whichever is less and field approaches shall be surfaced 4 ft. out from edge of shoulder.

Thickness of Subbase, Surfacing and Asphaltic Pavement Materials as shown on plans is approximate only. These materials are to be placed on the basis of tonnages shown on plans.

During construction of this project, traffic will use the present traveled roadway except where detours are shown on plans.

SUMMARY OF EARTHWORK QUANTITIES

[illegible]

PTS. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	S 0074 (1)	24	



Soil data shown on the plans is obtained from test 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 plans are encountered during construction the grading plan shown on plans will be modified where necessary to secure dense, stable embankments.

N.W. 1/4 Sec. 24, T. 4 N., R. 69 W.

STA.30+71 BEGIN S 0074(1)
R.O.W. ONLY

N.E. 1/4 Sec. 24,
T.4N., R.69 W.

50'-00" Remove 18" R.C.P. with
Headwall. Repl. Modified Type "B"
Concrete Inlet (H=3'-8") &
18"x6" Drgn. R.P. to connect to
existing 36" R.C.P. Inlet ditch
(Details on Sheet No. 6)

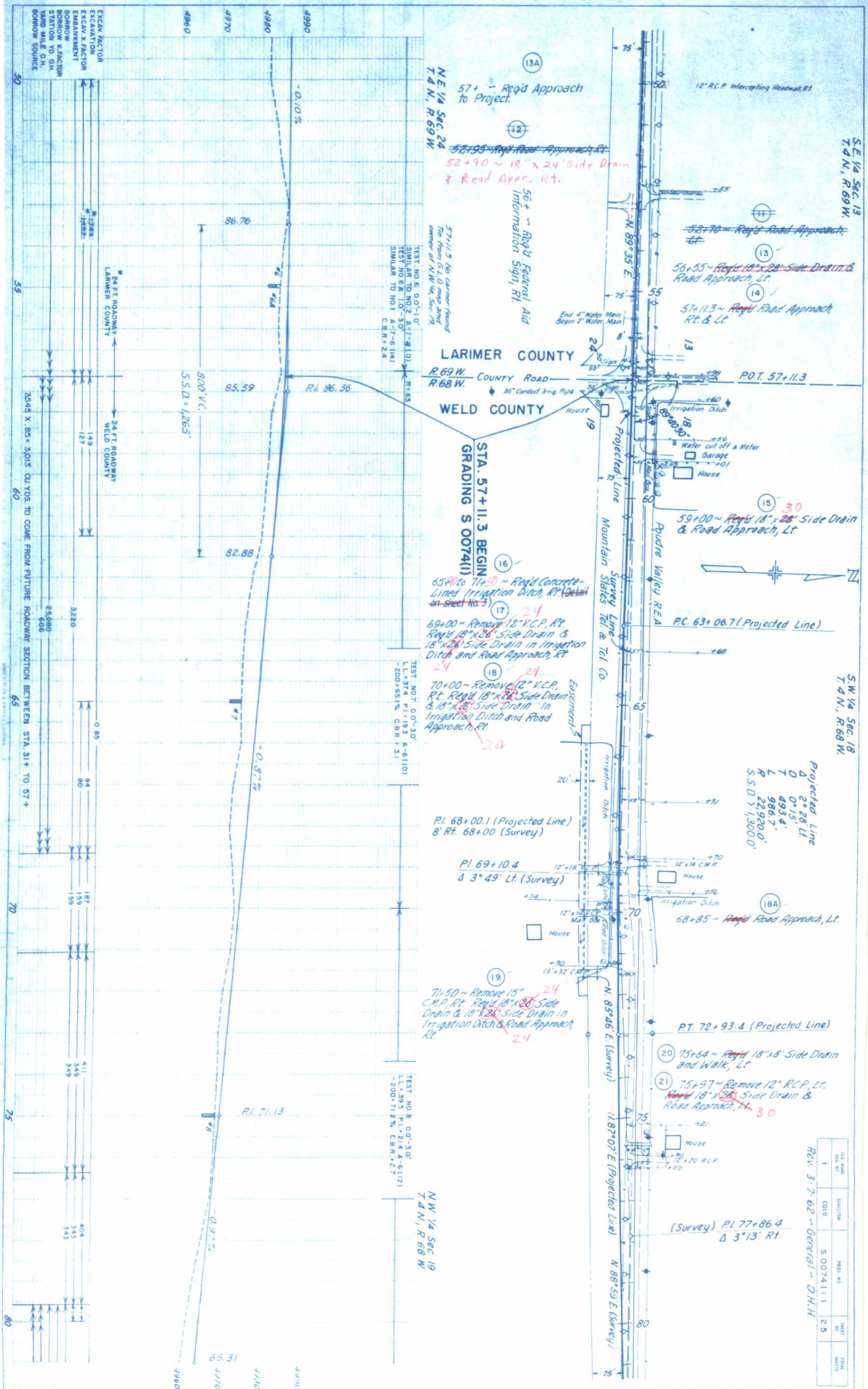


TEST NO. 4 U.O.-1.0
SIMILAR TO NO. 2 A-1-8 (O) R=65
TEST NO. 4 I.O.-3.0
L.L.=43.3 P.I.=23.3 A-7-6 (14)
-200=77.6% C.B.R.=2.4

FOR INFORMATION ONLY
TEST NO. 1 - 0.0' - 3.0' STA. 5+00
11.43 81.33 800.76

TEST NO.5 0.0-1.0
SIMILAR TO NO.2-A-1-2(0) R-65
PIT RUN SUB-BASE
TEST NO.5A 1.0-3.0
SIMILAR TO NO.1 A-7-6(14) CBR*2.4

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO. 22720	ALIGNMENT CHECKED		
	RT. OF BRY CHECKED		



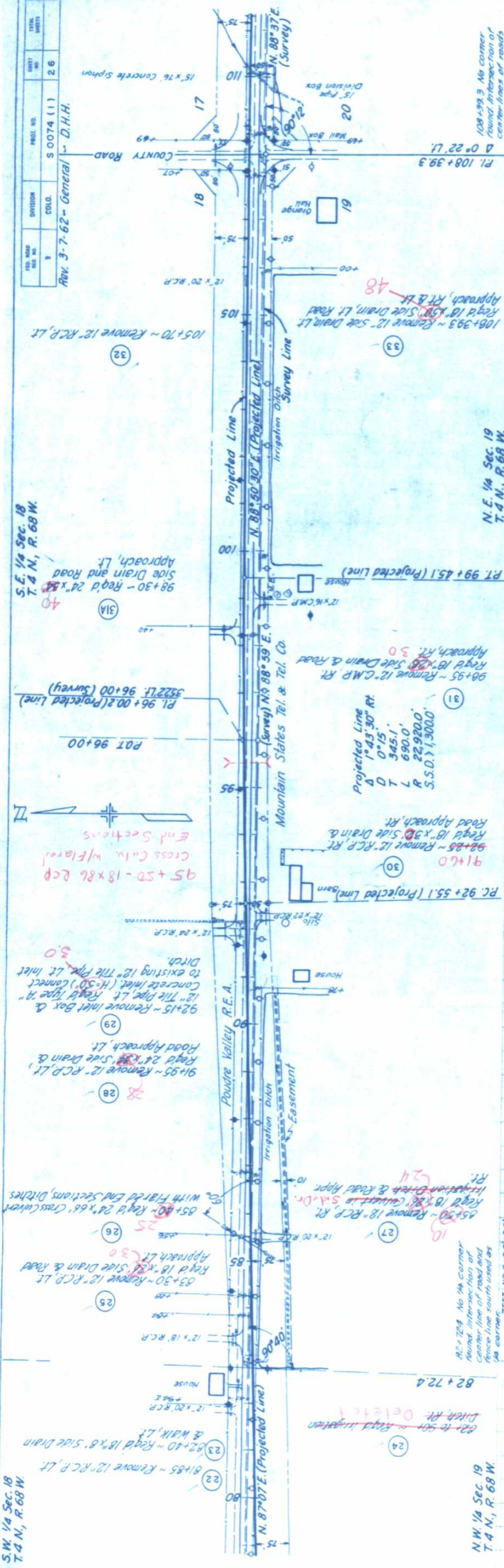
FIELD NO.	DIVISION	PROJ NO	SHEET NO	TOTAL SHEETS
5	COLD	50074(1)	25	

FED. ROAD DIST. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	S 0074 (1)	26	

Rev. 3-7-62 - General - D.H.H.

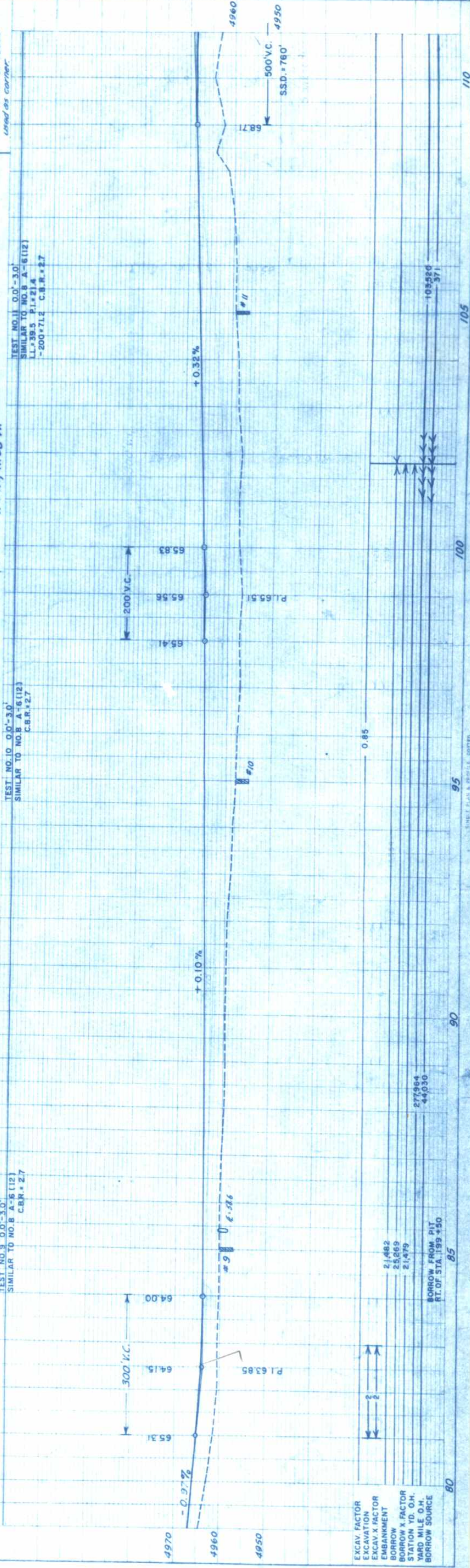
S.E. 1/4 Sec. 18
T. 4 N., R. 68 W.

S.W. 1/4 Sec. 18
T.4 N., R. 68 W.



N.E. $\frac{1}{4}$ Sec. 19
T.4 N., R.68 W.

N.W. 1/4 Sec. 19
T. 4 N., R. 68 W.

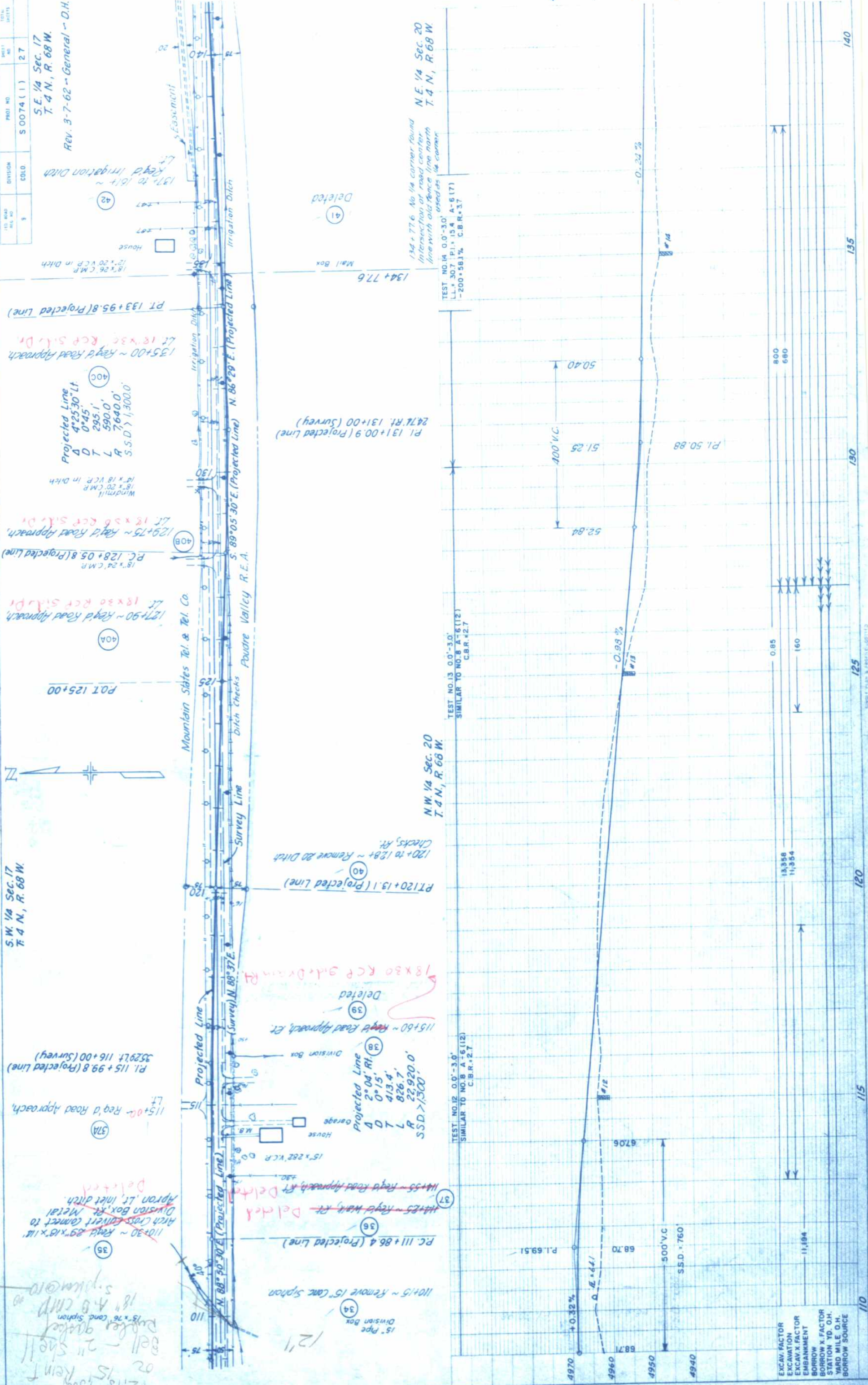


SINGLE PLAN & DOUBLE CORNER

110

PLATE	SUBJECT	DATE
	REMARKS	
	NO. OF PLANT CHANGES	
	REVISIONS	
	BY	
	DATE	

REV. 3-7-62 - General - D.H.H.

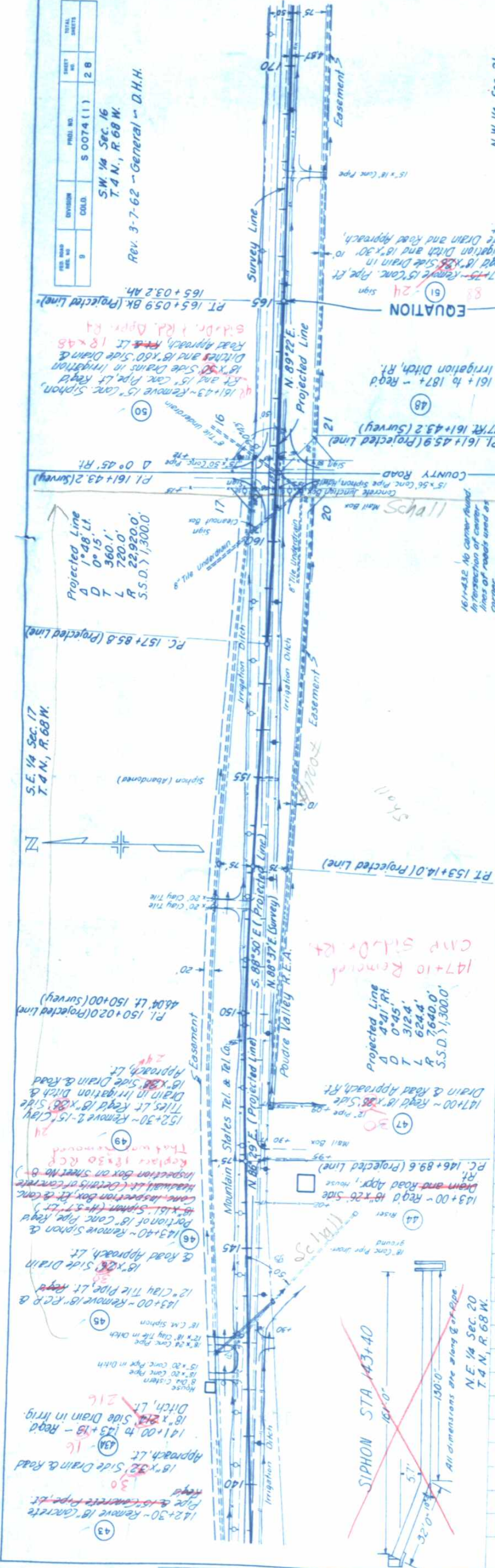


DATE	BY	REVIEWED	APPROVED	NOTED	NOISE BOOK	NO
------	----	----------	----------	-------	------------	----

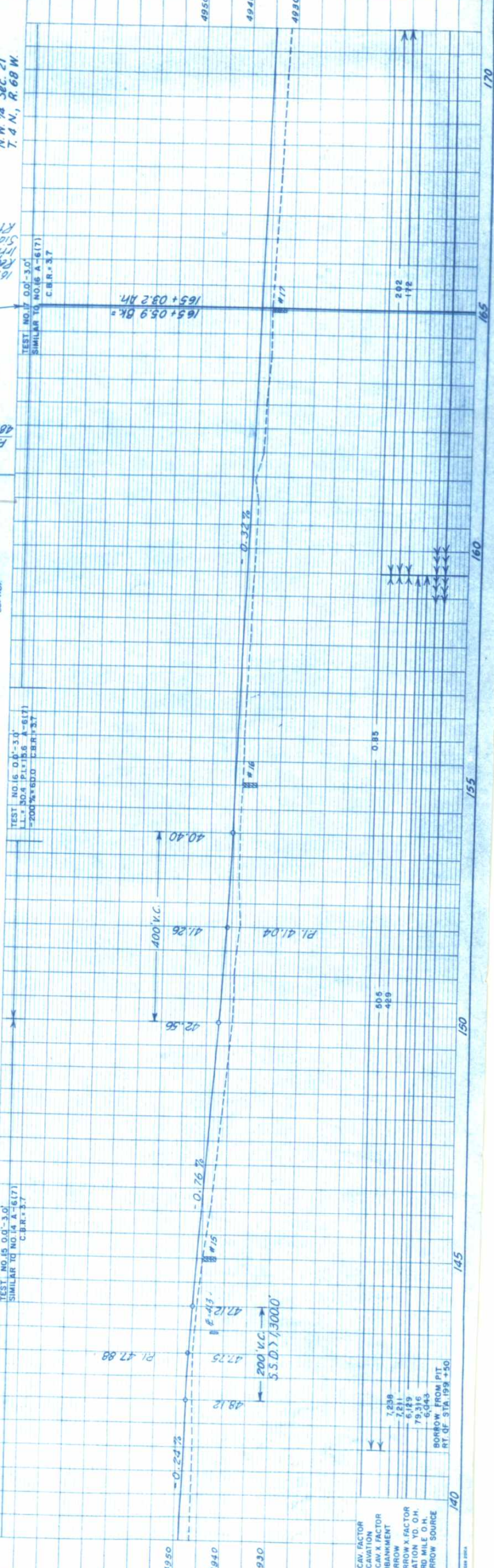
EXCAV. FACTOR
EXCAVATION
EXCAV. X. FACTOR
EMBANKMENT
BORROW
BORROW X. FACTOR
STATION YD. O.H.
YARD MILE. O.H.
BORROW SOURCE

REV.	DATE	BY	CHKD.	APP.	NO.	SHEET	TOTAL SHEETS
0						28	

SW 1/4 Sec. 16
T. 4 N., R. 68 W.
Rev. 3-7-62 - General - D.H.H.



NO.	DATE	BY	CHKD.	APP.	NO.	SHEET	TOTAL SHEETS
0						28	



NO.	DATE	BY	CHKD.	APP.	NO.	SHEET	TOTAL SHEETS
0						28	

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	BY		
	STRUCTURE NOTATIONS CHECKED		

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO. 22721	ALIGNMENT CHECKED		
	BY		
	BY		

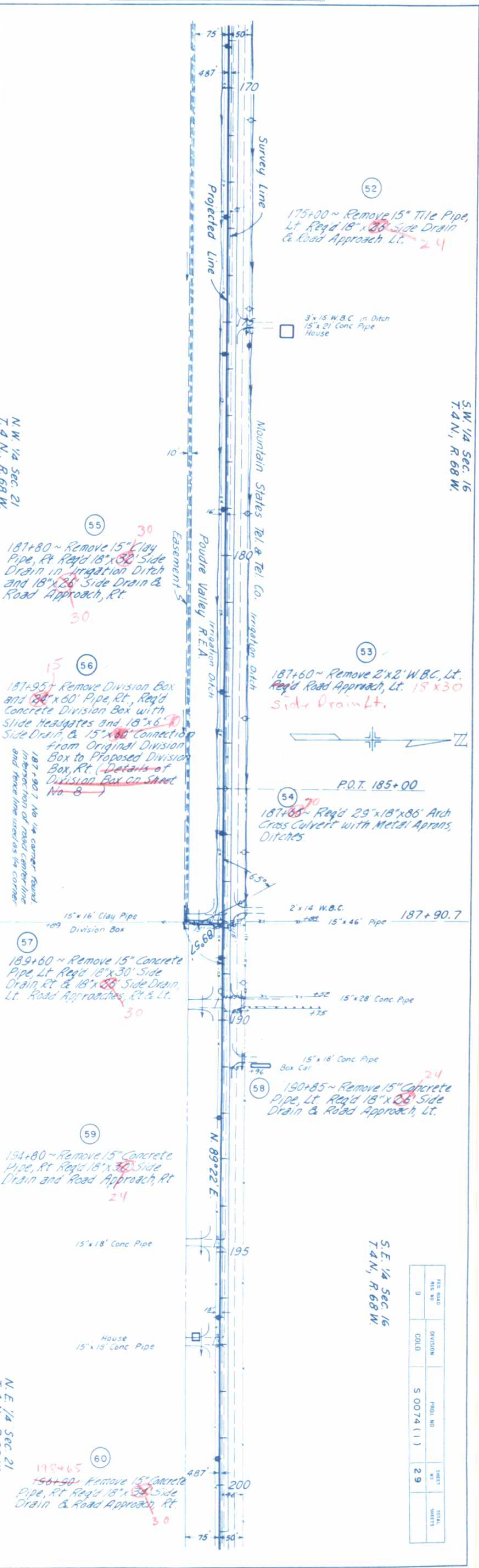
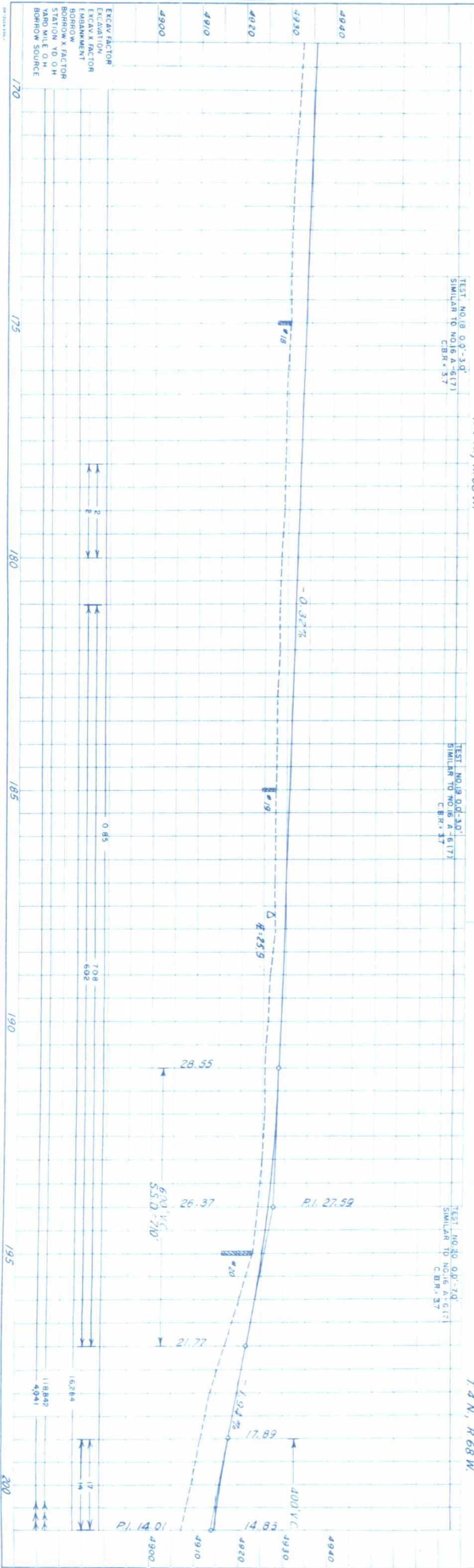
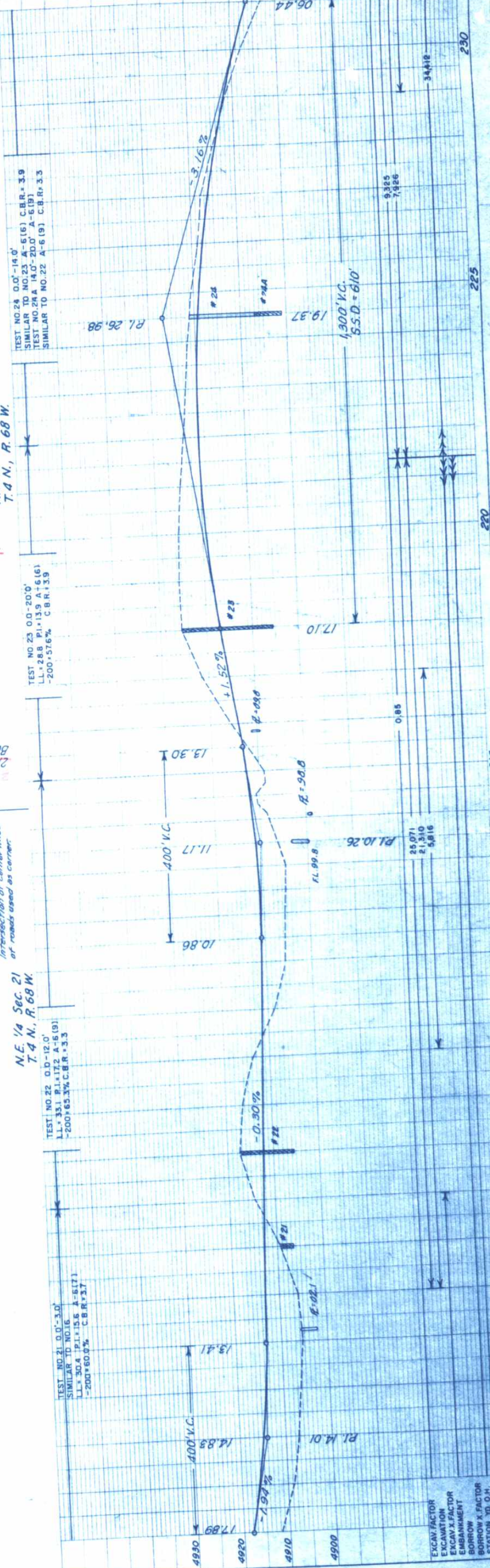
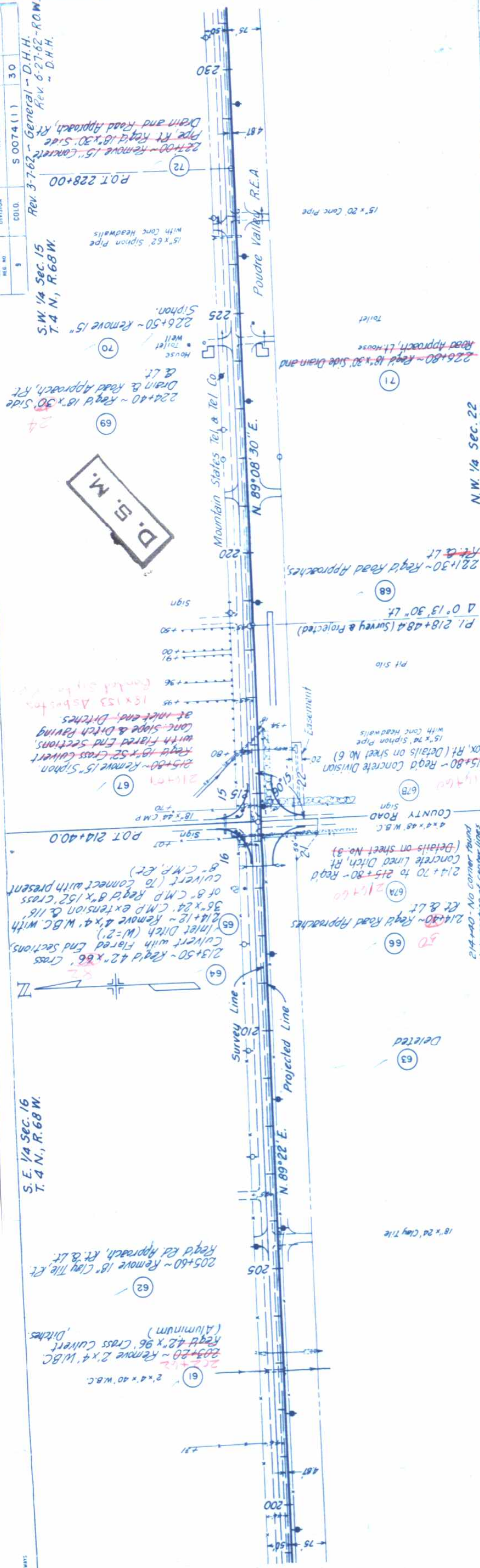


FIG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	C.O.L.D.	S 0074 (1)	29	

S.W. 1/4 Sec. 15
T.4 N., R.68 W.



NO	NOTE BOOK	STRUCTURE NOTATION CHKO
		IS MAINT
		STANDARD CHECKED
		NOTED
		SUBMITTED
		BY
		DATE