

COLORADO • DISTRICT ENGR'S COPY
DEPARTMENT OF HIGHWAYS

FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	S 0087(2)	1	1

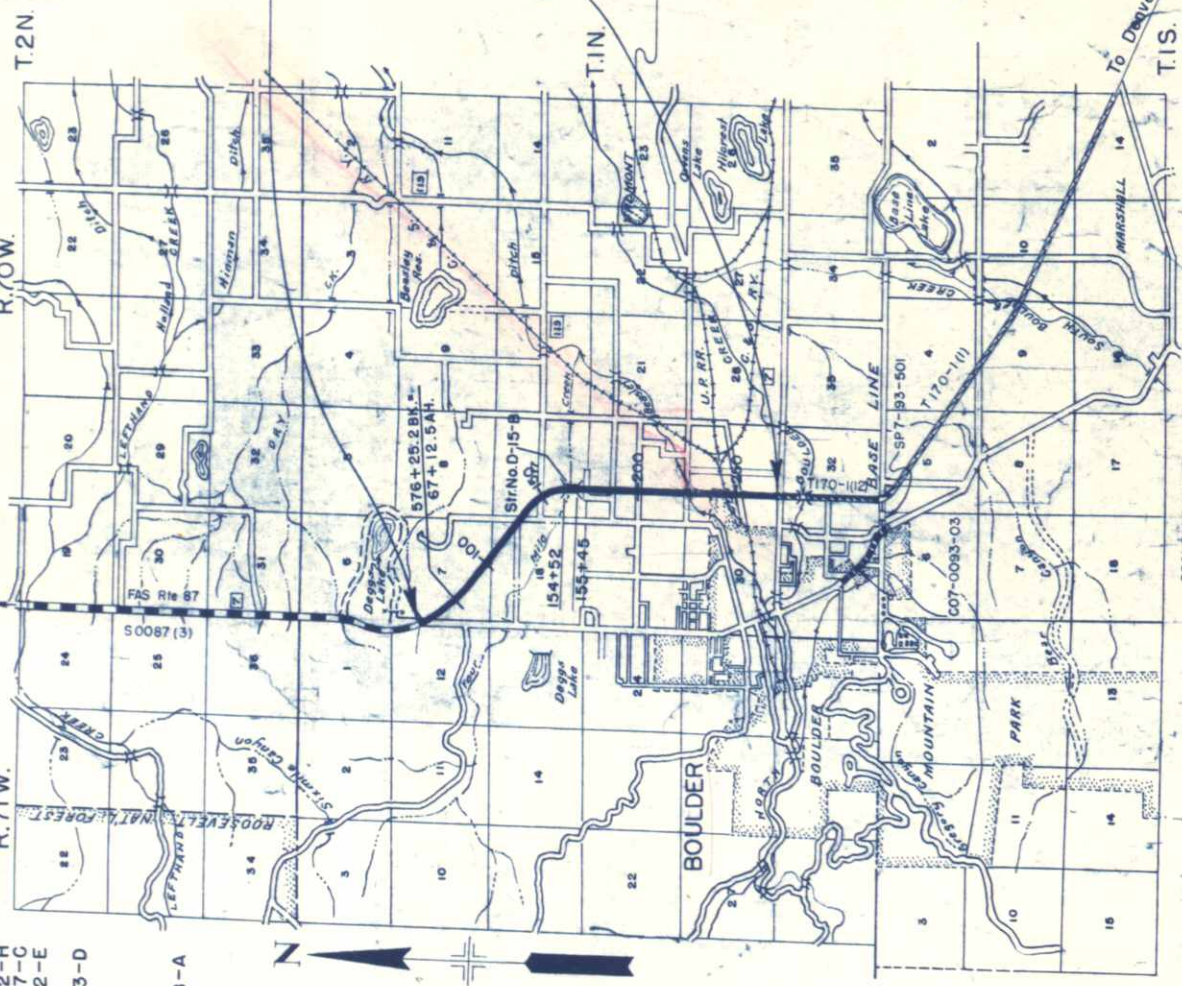
CONVENTIONAL SIGNS

- CENTER LINE
- RIGHT OF WAY LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- LAND LINES
- RAILROAD
- BARBED WIRE FENCE
- COMBINATION WIRE FENCE
- SNOW FENCE
- TELEPHONE & TELEGRAPH LINES
- POWER LINE
- DETOUR
- PRESENT ROAD (Pon Sheets)
- CITY LIMITS

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. S 0087 (2)
STATE HIGHWAY NO. 7
BOULDER COUNTY

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
NET LENGTH OF PROJECT } 22,786.4 FT. = 4.316 MILES

- M-1-C
- M-2-EM
- M-7-C
- M-10-B
- M-12-D13
- M-16-A
- M-18-B
- M-1-C1
- M-21-C
- M-26-C
- M-27-C
- M-29-B
- M-50-AW
- M-102-H
- M-107-C
- M-112-E
- M-123-D
- M-118-A



STA. 554 + 67.5 - BEGIN S 0087(2) =
End S 0087(3)

STA. 273 + 37.6 - END S 0087(2) =
Opposite Sta. 48 + 92.5 On T 170-(1)(2)

TABULATION OF LENGTH & DESIGN

STATION	ROADWAY		BRIDGE	LOADING
	24'	48'	LIN. FT.	
554+675 Begin S 0087(2) End S 0087(3)				
576+29.2 Bk. = Equal: n 67+2.5 Ah.	2,161.7			
154+52 Bridge End	8,739.5		3.0	
154+15.0 Bk. = Equation - Four Mile 154+5.4 n. Creek (Str. No. D-15-B)				
IF 5 Bridge End	6,413.1		89.6	H 20- S 16-44
31 End 24' Roadway = Beginning 48' Roadway		5,379.5		
r 376 End S 0087(2) = Opposite Sta. 48 + 92.5 T 170-(1)(2)				
TOTAL	17,314.3	5,379.5	92.6	
SUMMARY				
			LIN. FT.	MILES
TOTAL ROADWAY (24' width)			17,314.3	3.279
TOTAL ROADWAY (48' width)			5,379.5	1.019
TOTAL BRIDGE			92.6	.018
TOTAL (Gross & Net Length)			22,786.4	4.316
DESIGN DATA				
Maximum Grade				2.70%
Minimum Degree of Curve				2° 00'
Minimum NPSD (Horizontal)				800'
Minimum NPSD (Vertical)				475'
Maximum Design Speed				60 MPH

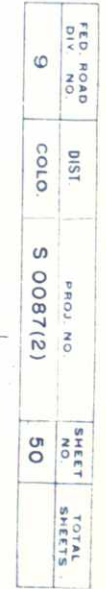
INDEX OF SHEETS

- 1 SKETCH MAP, TITLE PAGE & TABULATION OF LENGTH & DESIGN DATA.
- 2 TYPICAL SECTION & GENERAL NOTES.
- 3 SUMMARY OF APPROXIMATE QUANTITIES.
- 4 SUB-BASE MATERIAL PLAN, ~~EMBER GUARD POSTS~~, R.O.W. MARKERS
- 5-6 FENCING REQUIREMENTS.
- 7 DETAILS OF CONCRETE CURB & GUTTER & TABULATION.
- 8-14 LIST OF STRUCTURES.
- 15-19 DETAILS OF BRIDGE, STA. 154 +
- 20-21 DETAILS OF CONCRETE BOX CULVERT, STA. 218 +
- 22 DETAILS OF CONCRETE BOX CULVERT, STA. 144 + & STA. 245 +
- 23-24 DETAILS OF CONCRETE DIVISION BOXES.
- 25 CONCRETE DIVISION BOX, STA. 163 + 84 & TYPICAL SECTION OF TRENCH FOR UNDERDRAIN.
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- 59-120 CROSS SECTIONS.
- 45A STANDARD END & ANGLE SECTIONS, EXPANSION JOINTS FOR CONCRETE PIPE

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:
E. W. Oviatt, Construction Engineer, Greeley, Colorado
D. S. Moore, Resident Engineer, Boulder, Colorado
Home Phone Hillcrest 2-1261

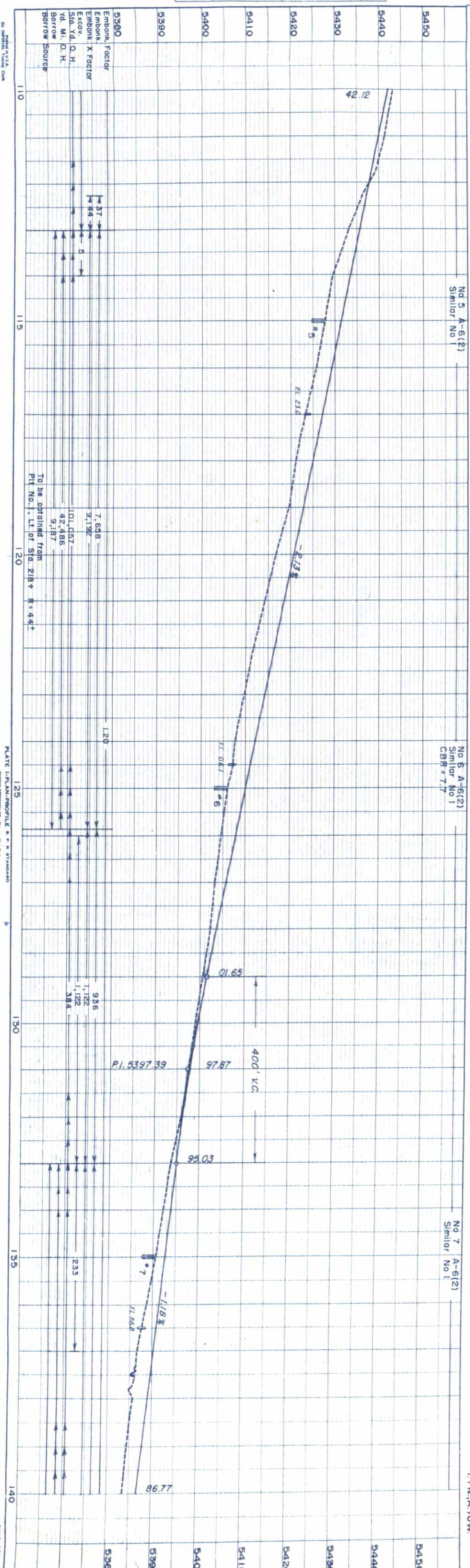
COLORADO
DEPARTMENT OF HIGHWAYS
APPROVED: *Mark E. Hobbs* 1-18-57
CHIEF ENGINEER DATE

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



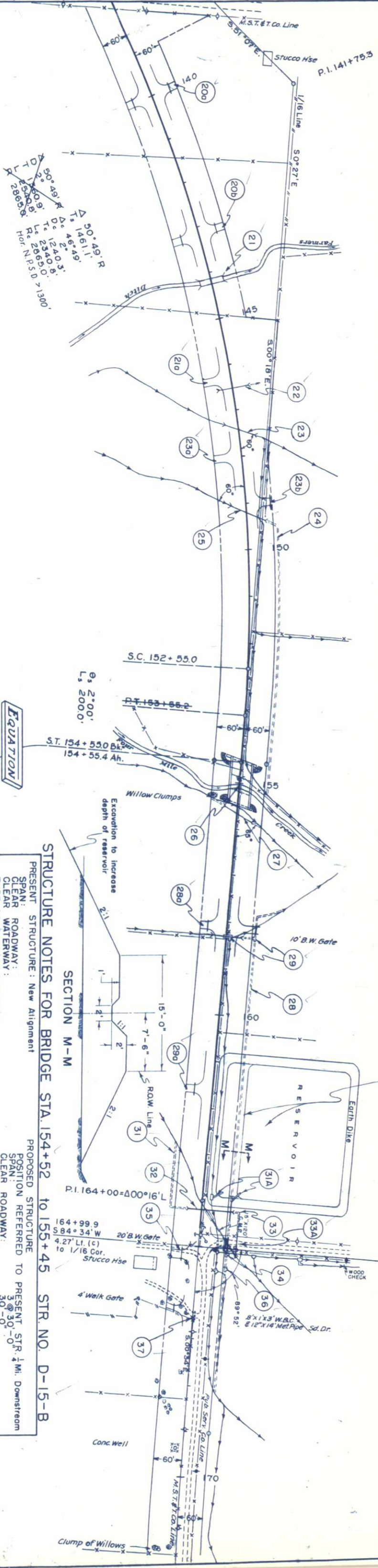
	cm		cm

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____ GRADES CHECKED _____ B.M. & NOTED _____ STRUCTURE NOTATIONS CHECKED _____		
NOTE BOOK			
NO. 16017			



PLAN	DATE
DESIGNED BY	W.E. Johnston
NOTED BY	
NOTED BY	
NOTED BY	

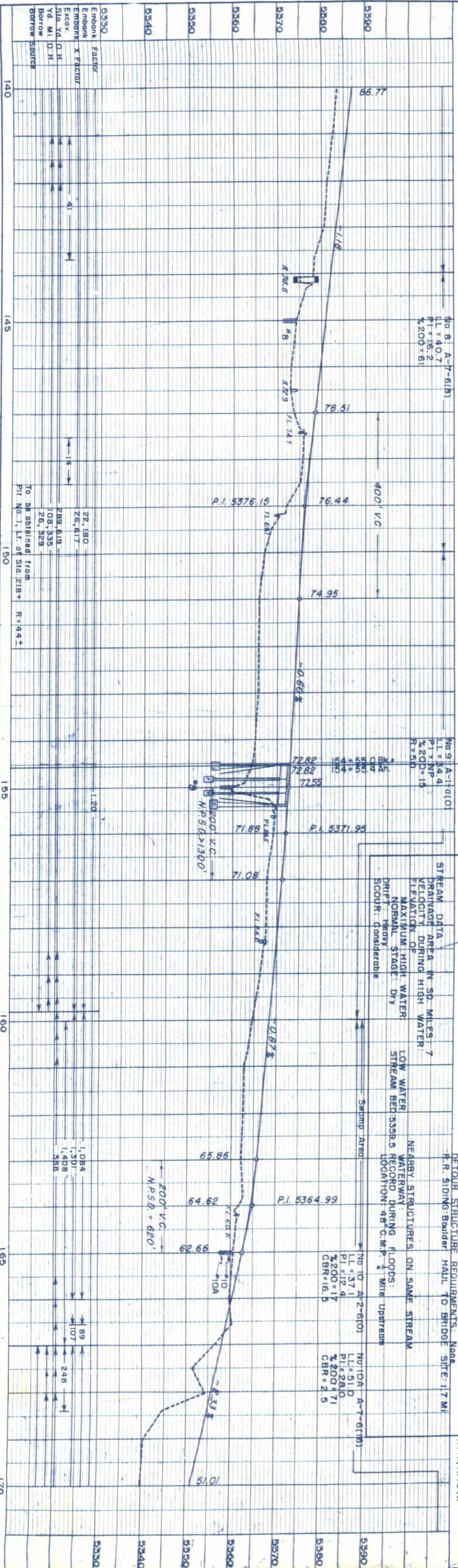
PROFILE	DATE
DESIGNED BY	W.E. Johnston
NOTED BY	
NOTED BY	
NOTED BY	



STRUCTURE NOTES FOR BRIDGE STA. 154+52 TO 155+45 STR. NO. D-15-B

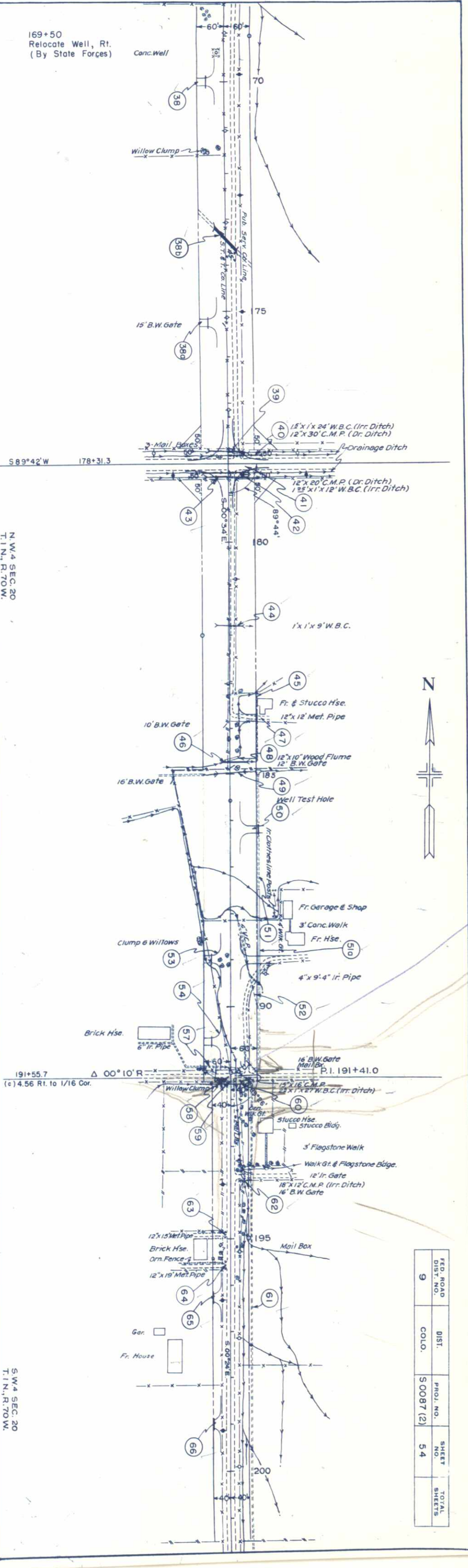
PRESENT STRUCTURE: New Alignment
 POSITION REFERRED TO PRESENT STR. 1/4 MI. Downstream
 SPAN: ROADWAY: 30'-0"
 CLEAR WATERWAY: 30'-0"
 TYPE OF SUPERSTRUCTURE: Concrete Slab & Girder
 TYPE OF SUBSTRUCTURE: Reinforced Concrete
 REQUIREMENTS AS TO REMOVAL:

STREAM DATA
 DRAINAGE AREA IN SQ. MILES: 7
 VELOCITY DURING HIGH WATER:
 ELEVATION OF MAXIMUM HIGH WATER:
 NORMAL STAGE: Dry
 SCOUR: Considerable
 NEARBY STRUCTURES ON SAME STREAM
 WATERWAY: RECORD DURING FLOODS:
 LOCATION: 48° C.M.P. 1/4 Mile Upstream



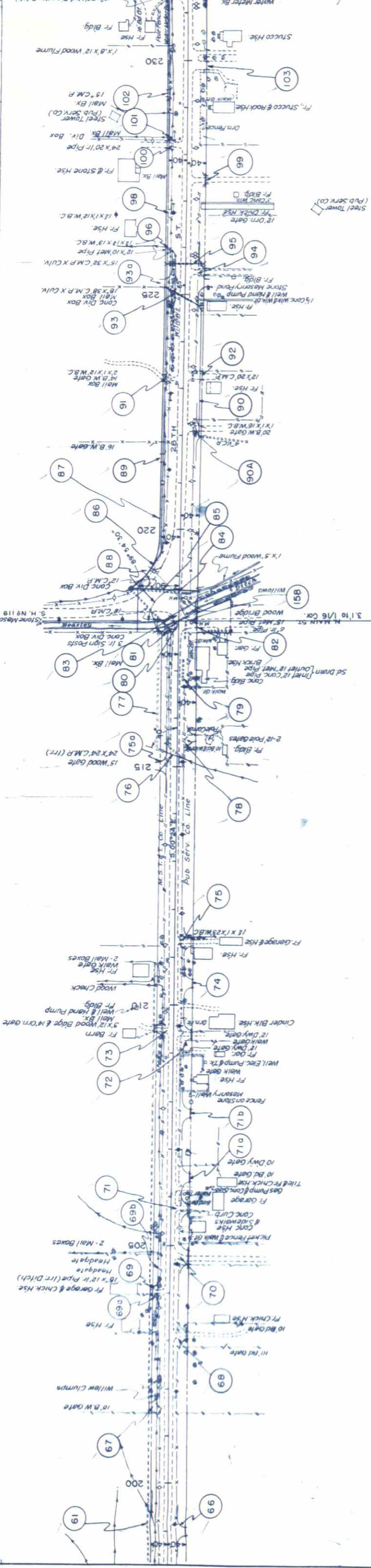
FEED ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0087(2)	53	

PL		BY	DATE
	SURVEYED		
	LOTTER		
NOTE BOOK	ALIGNMENT CHECKED		
NO. 16818 16820	RT. OF WAY CHECKED		



FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50087 (2)	54	

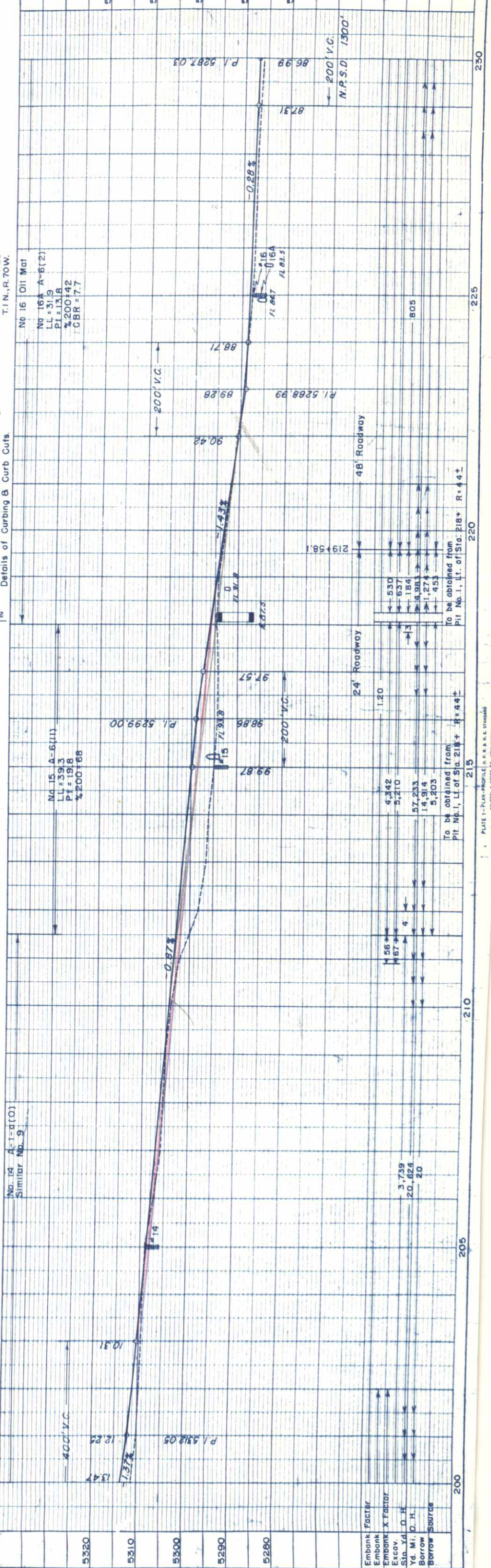
FED. ROAD DIST. NO.	DIST.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0087(2)	55	



S.W.4 SEC. 20
T. 1 N., R. 70 W.

NOTE:
See Sheet No. 7 for Tabulation &
Details of Curbing & Curb Cuts.

N.W.4 SEC. 29
T. 1 N., R. 70 W.



No. 14 A-1-d(0)
Similar No. 9

No. 16 Oil Mat
No. 16 A-6(2)
LL = 31.9
PI = 13.8
%200+42
CBR = 7.7

PROFILE
NOTED
B.M. NOTED
STRUCTURE NOTED
NO. 16819

PL 11
NOTED
B.M. NOTED
STRUCTURE NOTED
NO. 16819

PLAN
DATE
BY
NOTED
CHECKED
NO. 1592
DATE

PROFILE
DATE
BY
NOTED
CHECKED
NO. 1592
DATE

Projection $\Delta = 3^{\circ}23'1''$
 $D = 4^{\circ}00'$
 $T = 42.3'$
 $L = 84.6'$
 $R = 1432.5'$

FED. ROAD DIST. NO. 9
DIST. COLO. S 0087(2)
SHEET NO. 56
TOTAL SHEETS

