

DEPARTMENT OF HIGHWAYS STATE OF COLORADO

PLAN AND PROFILE OF PROPOSED COMPLETED FEDERAL AID PROJECT NO. F 030-1(4) STATE HIGHWAY NO. 66 BOULDER COUNTY

INDEX OF SHEETS
AS CONSTRUCTED
REVISED DATE June 7, 1968

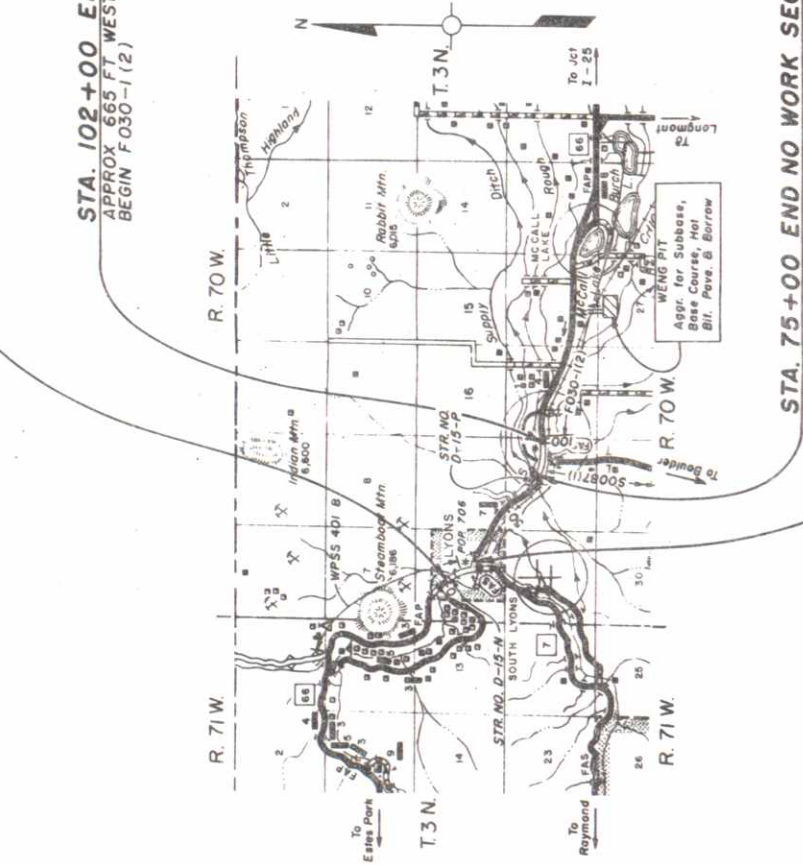
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- M-203-B
M-203-C
M-206-A
M-500-A
M-601-C
M-601-D
M-603-CA
M-603-M
M-603-RC
M-604-AA
M-604-B
M-604-D
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M-614-A
M-614-IA
M-614-TB
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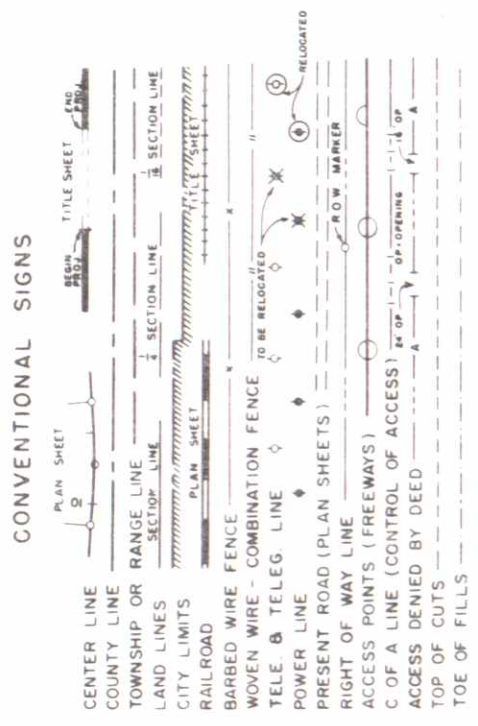
Contractor: Ramour Bros., Inc.
Sub Contractor: Sterling Paving Co.
Resident Engineer: Geo. S. Douthett, Jr.
Project Engineer: Kenneth F. Mauro
Project Started: January 22, 1968
Project Completed: June 7, 1968

STA. 5+34.5 BEGIN F030-1(4) =
23 FT. LT. OF STA. 12+63.3 ON WPSS 401-B

STA. 102+00 END F030-1(4) =
APPROX. 665 FT. WEST OF STA. 98+00
BEGIN F030-1(2)



STA. 75+00 END NO WORK SECTION
STA. 11+52.0 BK. = EQU. — BEGIN NO WORK SECTION
STA. 11+54.5 AH.



TABULATION OF LENGTH & DESIGN DATA

STATION	ROADWAY LIN. FT.	MAJOR STRUCTURE LIN. FT.	NO. WORK SECTION LIN. FT.
5+34.5 Begin F030-1(4) = 23 Ft. Lt. of 12+63.3 on WPSS 401-B	74.9	63.9	6,345.5
6+09.4 Bridge Str No D-15-N 6+73.3	224.5		
8+97.8 Opposite 9+00 Begin WPSS 401-B	254.2		
11+52.0 Bk. = 11+54.5 Ah. = Equa. - Beg. No Work Sec.			
[40+32.3 Lyons City Limits]			
75+00 End No Work Section	2,634.4		
101+34.4 Bk. = 101+37.5 Ah. = Equation	62.5		
102+00 End F030-1(4) = Approx. 665 Ft. West of 98+00 Beg. F030-1(2)			
TOTALS	3,250.5	63.9	6,345.5
SUMMARY	LIN. FT.	MILES	
Roadway	3,250.5	0.616	
Major Structure	63.9	0.012	
Total - Net Length	3,314.4	0.628	
No Work Section	6,345.5	1.202	
Total Gross Length	9,659.9	1.830	
DESIGN DATA	CITY SECTION STA. 5+ TO STA. 75+ TO 102+	SECTION	
Maximum Degree of Curve	40°00'	3°00'	
Maximum Grade	6.78 %	1.50 %	
Minimum S.S.D. - Horizontal	155 FT.	800 FT.	
Minimum S.S.D. - Vertical	225 FT.	1100 FT.	
Maximum Design Speed	25 MPH.	70 MPH.	

SEE SPECIAL PROVISIONS FOR
NOTICE TO BIDDERS

Department of Highways
State of Colorado

Final Approval
As Constructed Plans

Chief Engineer
Deputy Chief Engineer

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

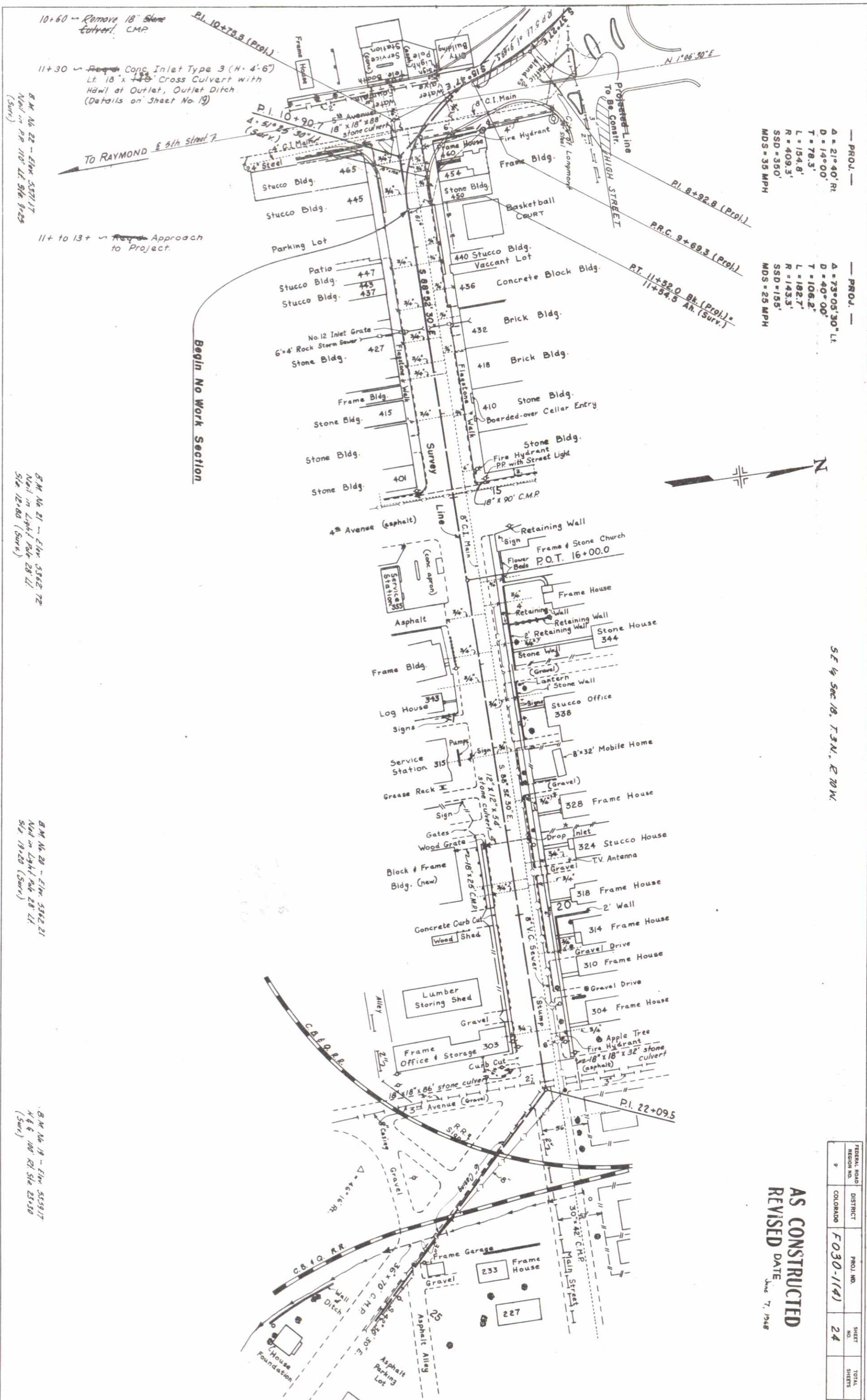
APPROVED: *John E. Shumate* 12-6-67
DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

APPROVED: _____
DATE



PLAN
 28316
 28320



— PROJ. —
 A = 21°40' R;
 D = 14°00'
 T = 78.3'
 L = 154.8'
 R = 409.3'
 SSD = 350'
 MDS = 35 MPH

— PROJ. —
 A = 73°05'30" L;
 D = 40°00'
 T = 106.2'
 L = 182.7'
 R = 143.3'
 SSD = 155'
 MDS = 25 MPH

SE 1/4 Sec 18, T.3N., R.10W.

AS CONSTRUCTED
 REVISED DATE June 7, 1968

FEDERAL ROAD DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9 COLORADO	F030-1(4)	24	

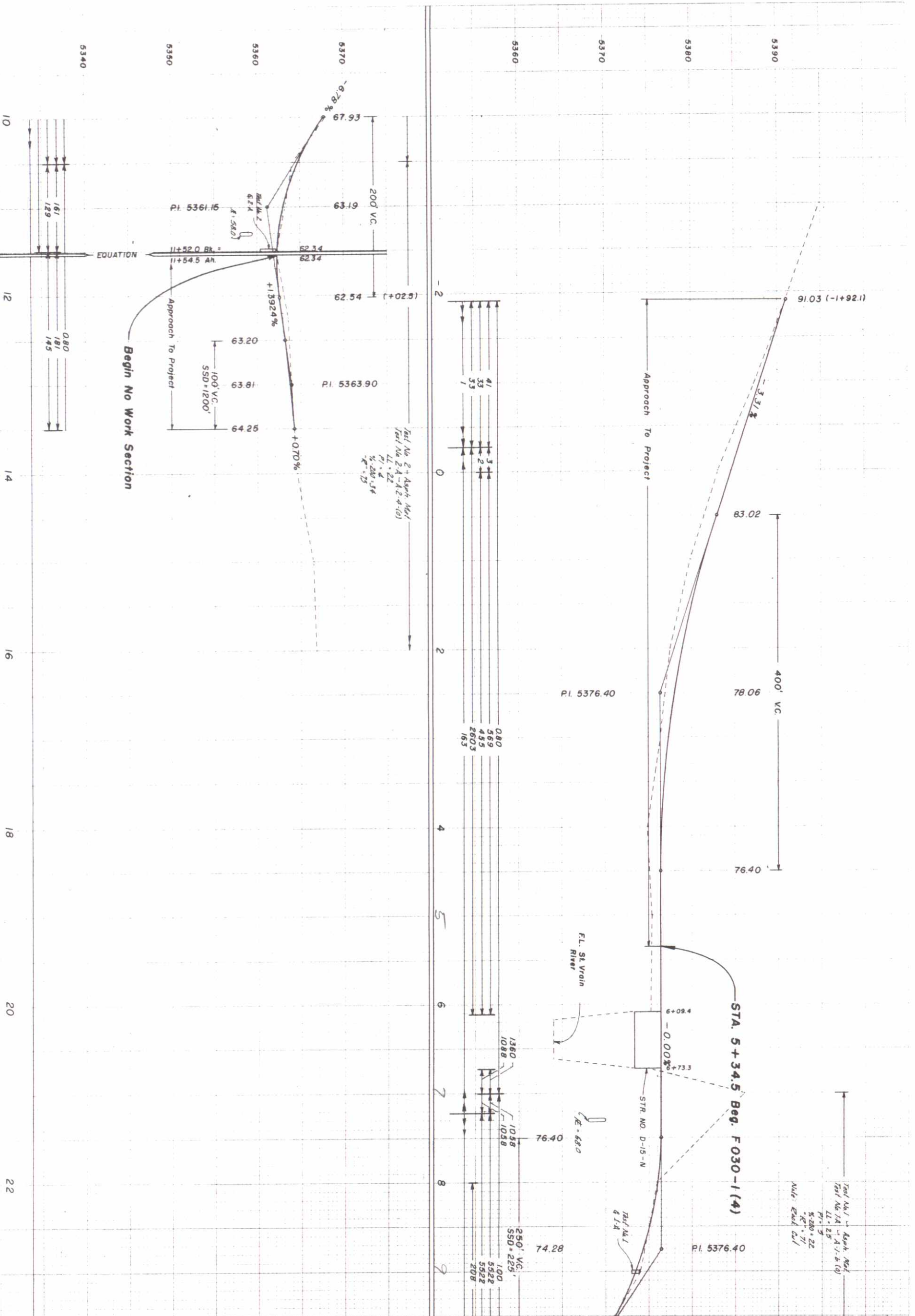
10+60 - Remove 18" Stone Culvert, CMP
 11+30 - Remove Conc Inlet Type 3 (H. 4'-6") Lt. 18" x 18" Cross Culvert with HDW at Outlet, Outlet Ditch. (Details on Sheet No. 19)
 B.M. No. 22 - Elev. 5371.17
 Nail in RR 110' Lt. Sta. 19+29 (Surv.)

11+ to 13+ - Approach to Project.

B.M. No. 21 - Elev. 5362.72
 Nail in Light Pole 28' Lt. Sta. 12+80 (Surv.)

B.M. No. 20 - Elev. 5362.21
 Nail in Light Pole 28' Lt. Sta. 19+20 (Surv.)

B.M. No. 19 - Elev. 5359.17
 N.G. 4' 100' Rt. Sta. 25+50 (Surv.)



PROJECT NO.	SHEET NO.
F 030-1(4)	25

5340 FACTOR
 5350 EXCAVATION
 5360 EXCAV. x FACTOR
 5370 EMBANKMENT
 5380 HAUL - 70. MI.
 5390

24

22

20

18

16

14

12

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5340

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5370

5380

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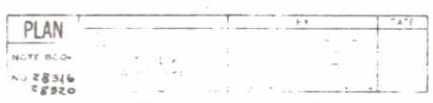
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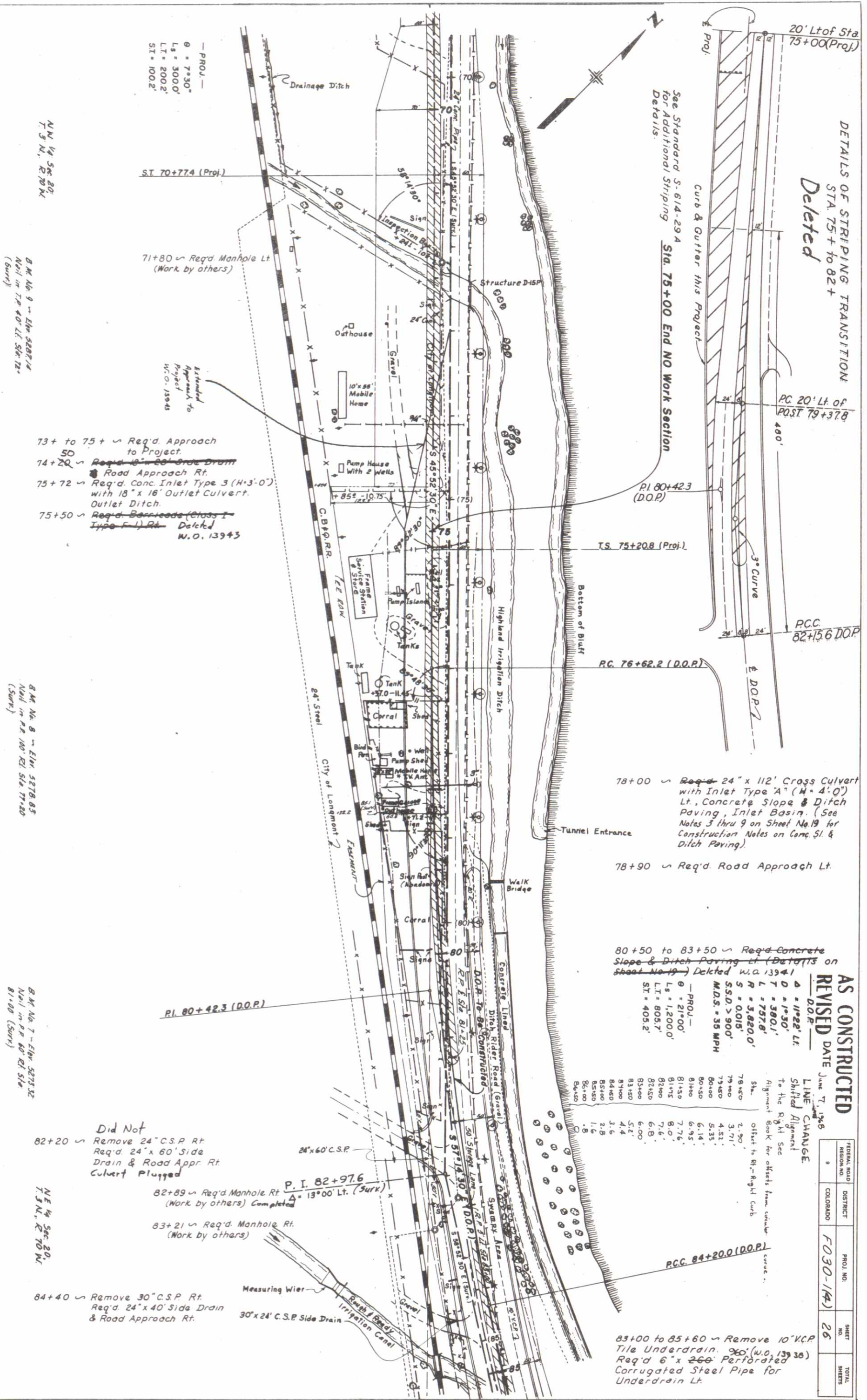


DETAILS OF STRIPING TRANSITION
STA. 75+ to 82+
Deleted

See Standard S-614-29 A
for Additional Striping
Details.

Curb & Gutter this Project

SI 75+00 END NO WORK SECTION



PROJ.—
θ = 7°30'
L_s = 3000'
L_t = 2002'
S_t = 100.2'

N.M. 1/4 Sec. 20,
T. 3 N., R. 70 W.

B.M. No. 9 — Elev. 5287.14
Nail in TP 40' Lt. Sta. 72+
(Survey)

- 73+ to 75+ ~ Req'd. Approach to Project.
- 74+20 ~ Req'd. 18" x 24" Side Drain Road Approach Rt.
- 75+72 ~ Req'd. Conc. Inlet Type 3 (H=3'-0") with 18" x 16" Outlet Culvert. Outlet Ditch.
- 75+50 ~ Req'd. Barricade (Cross I Type F-1) Rt. Deleted W.O. 13943

B.M. No. 8 — Elev. 5278.85
Nail in P.P. 100' Rt. Sta. 77+20
(Survey)

B.M. No. 7 — Elev. 5275.52
Nail in P.P. 60' Rt. Sta. 81+00
(Survey)

Did Not
82+20 ~ Remove 24" C.S.P. Rt. Req'd. 24" x 40" Side Drain & Road Appr. Rt. Culvert Plugged

N.E. 1/4 Sec. 20,
T. 3 N., R. 70 W.

84+40 ~ Remove 30" C.S.P. Rt. Req'd. 24" x 40" Side Drain & Road Approach Rt.

78+00 ~ Req'd. 24" x 112' Cross Culvert with Inlet Type "A" (W=4'-0") Lt., Concrete Slope & Ditch Paving, Inlet Basin. (See Notes 3 thru 9 on Sheet No. 19 for Construction Notes on Conc. Sl. & Ditch Paving).

78+90 ~ Req'd. Road Approach Lt.

80+50 to 83+50 ~ Req'd. Concrete Slope & Ditch Paving Lt. (Details on Sheet No. 19) Deleted w/a 13941

AS CONSTRUCTED
REVISED DATE June 7, 1946
D.O.P.—
θ = 11°22' Lt.
D = 1930'
T = 3801'
L = 757.8'
S = 0.015'
R = 3,820.0'
SS.D. > 900'
M.D.S. = 35 MPH
— PROJ.—
θ = 21°00'
L_s = 1,200.0'
L_t = 805.7'
S_t = 405.2'

Sta.	Offset to Rt.-Right Curb
78+50	2.90'
79+00	3.71'
79+50	4.51'
80+00	5.33'
80+50	6.14'
81+00	6.95'
81+50	7.76'
82+00	8.57'
82+50	9.38'
83+00	10.19'
83+50	11.00'
84+00	11.81'
84+50	12.62'
85+00	13.43'
85+50	14.24'
86+00	15.05'
86+50	15.86'
87+00	16.67'
87+50	17.48'
88+00	18.29'
88+50	19.10'
89+00	19.91'
89+50	20.72'
90+00	21.53'
90+50	22.34'
91+00	23.15'
91+50	23.96'
92+00	24.77'
92+50	25.58'
93+00	26.39'
93+50	27.20'
94+00	28.01'
94+50	28.82'
95+00	29.63'
95+50	30.44'
96+00	31.25'
96+50	32.06'
97+00	32.87'
97+50	33.68'
98+00	34.49'
98+50	35.30'
99+00	36.11'
99+50	36.92'
100+00	37.73'

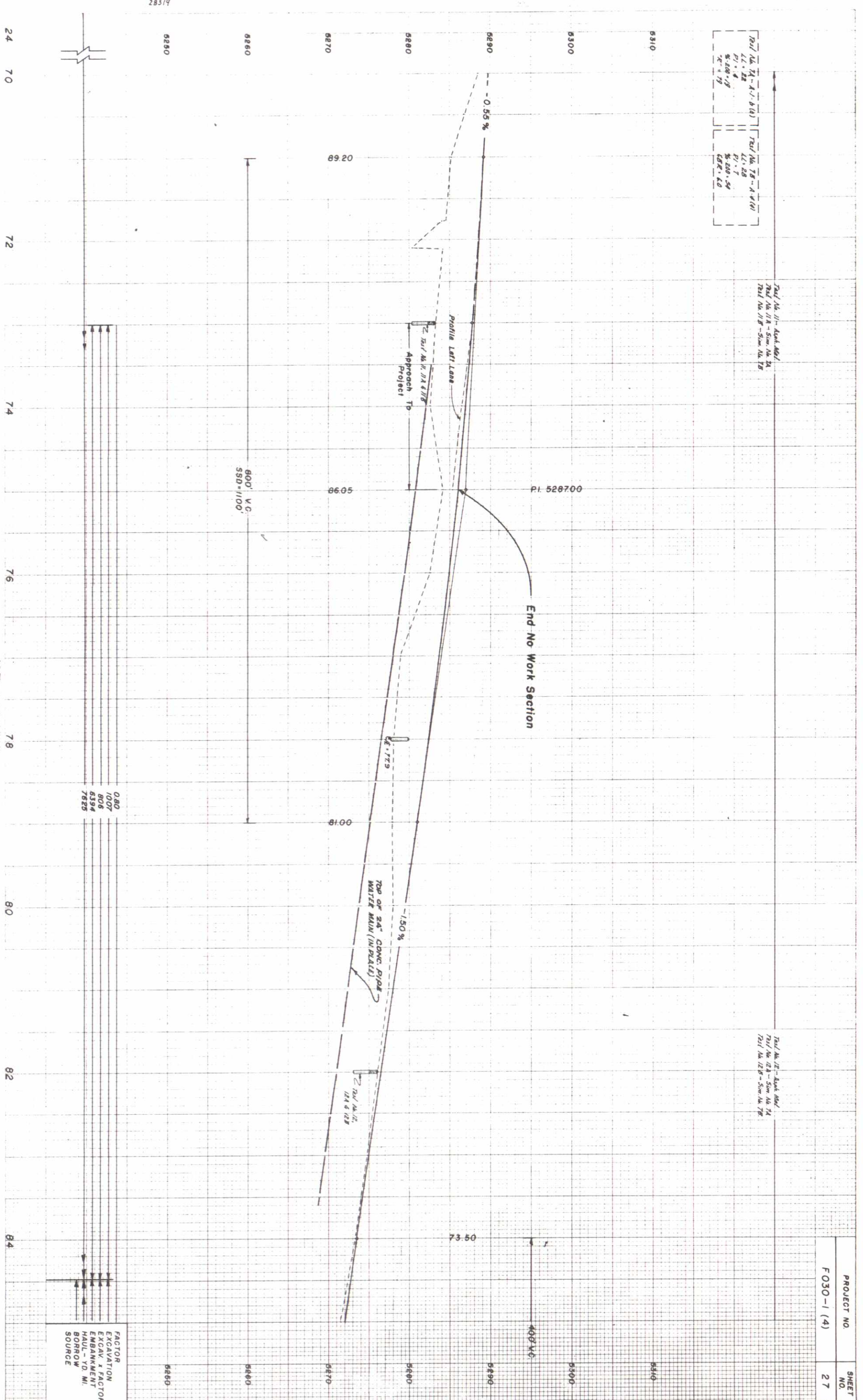
83+00 to 85+60 ~ Remove 10" VCP Tile Underdrain. 960' (w.o. 13936) Req'd 6" x 266' Perforated Corrugated Steel Pipe for Underdrain Lt.

FEDERAL ROAD DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	FO30-144	26	

Proj. No. 71 - A-1-B(4)	Proj. No. 78 - A-4(4)
L.L. 28	L.L. 28
P.I. 4	P.I. 7
% 2.00 - 1.8	% 2.00 - .54
% 2.00 - 1.8	% 2.00 - 1.8
CRK. 6.0	CRK. 6.0

Proj. No. 11 - 400' Mod.
 Proj. No. 11 - 500' Mod.
 Proj. No. 11 - 500' Mod.

Proj. No. 12 - 400' Mod.
 Proj. No. 12 - 500' Mod.
 Proj. No. 12 - 500' Mod.



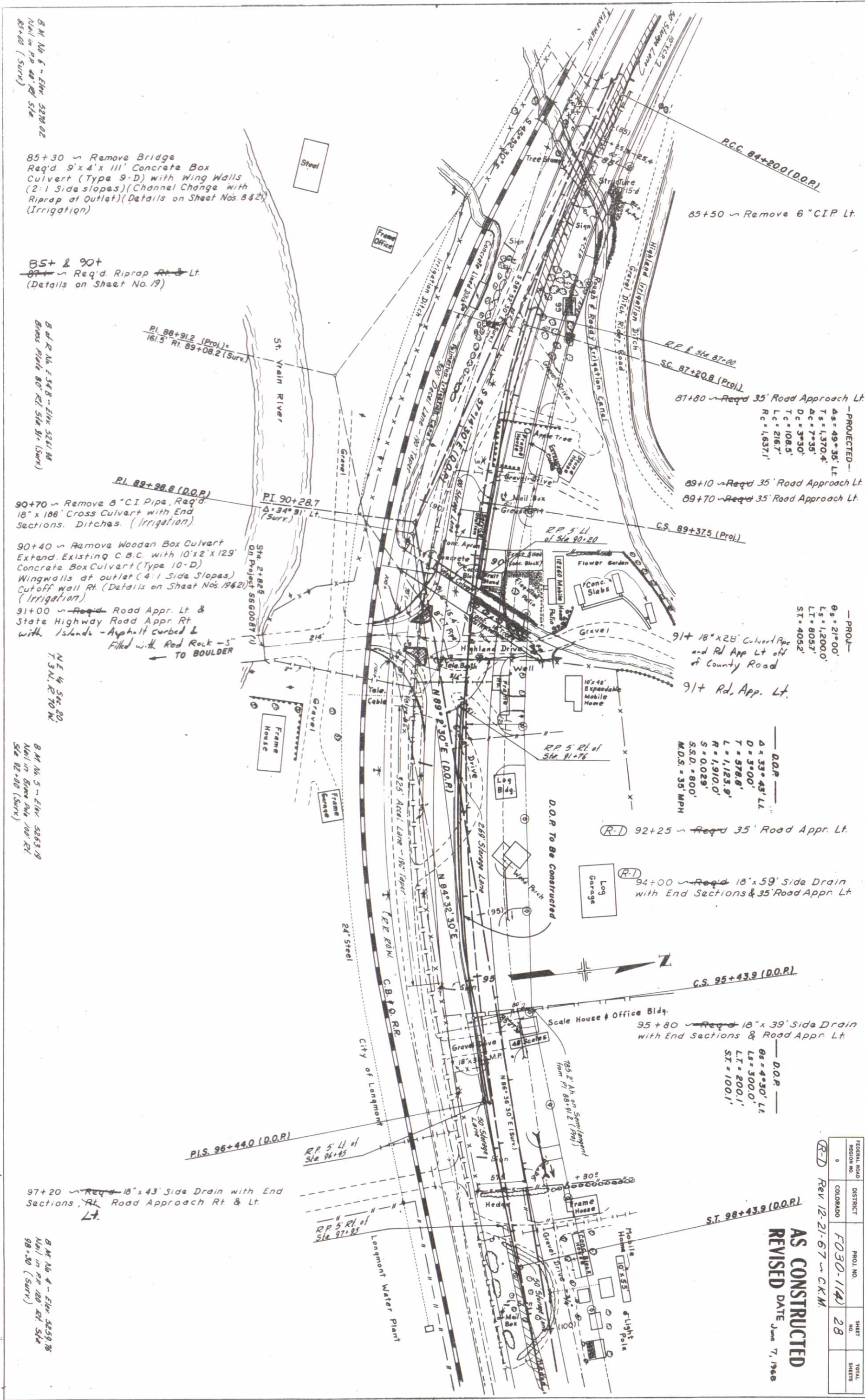
PROJECT NO.	FO30-1 (4)
SHEET NO.	27

FACTOR
 EXCAVATION
 EXCAV. X FACTOR
 EMBANKMENT
 HAUL - YD. MI.
 BORROW
 SOURCE

K&E

28519

PLAN



B.M. No. 6 - Elev. 5220.02
Nail in RR 40' RT. STA
85+00 (Surv.)

85+30 ~ Remove Bridge
Req'd 9'x4'x11' Concrete Box
Culvert (Type 9-D) with Wing Walls
(2:1 Side Slopes)(Channel Change with
Riprap at Outlet)(Details on Sheet Nos. 842)
(Irrigation)

85+ & 90+
Req'd Riprap Rt. & Lt.
(Details on Sheet No. 19)

B.M. No. 7 - Elev. 5211.88
Grass Pile 80' RT. STA 91.18
(Surv.)

90+70 ~ Remove 8" C.I. Pipe, Req'd
18" x 108" Cross Culvert with End
Sections. Ditches. (Irrigation)

90+40 ~ Remove Wooden Box Culvert
Extend Existing C.B.C. with 10'x2'x129'
Concrete Box Culvert (Type 10-D)
Wingwalls at outlet (4:1 Side Slopes)
Cutoff wall Rt. (Details on Sheet Nos. 1942)
(Irrigation)

91+00 ~ Req'd Road Appr. Lt. &
State Highway Road Appr. Rt.
with Islands - Asphalt Curbed &
Filled with Red Rock - 5"
TO BOULDER

N 1/4 Sec. 20,
T 3N, R 70W

B.M. No. 5 - Elev. 5283.19
Nail in Grass Pile 100' RT.
Sta 92+00 (Surv.)

97+20 ~ Req'd 18" x 43" Side Drain with End
Sections, Rt. Road Approach Rt. & Lt.
Lt.

B.M. No. 4 - Elev. 5259.76
Nail in RR 100' RT. STA
98+50 (Surv.)

85+50 ~ Remove 6" C.I.P. Lt.

87+80 ~ Req'd 35' Road Approach Lt.
- PROJECTED -
A = 49° 35' Lt.
T = 1,370.4'
D = 7° 35'
L = 108.5'
C = 216.7'
R = 1,637.1'

89+10 ~ Req'd 35' Road Approach Lt.
89+70 ~ Req'd 35' Road Approach Lt.

91+ ~ 18" x 28" Culvert Pipe
and Rd App Lt off
of County Road
91+ Rd. App. Lt.

D.O.R. -
A = 33° 43' Lt.
D = 3° 00'
T = 578.8'
L = 1,123.9'
R = 1,910.0'
S = 0.029'
S.S.D. = 800'
M.D.S. = 35' MPH

(R-D) 92+25 ~ Req'd 35' Road Appr. Lt.

(R-I) 94+00 ~ Req'd 18" x 59" Side Drain
with End Sections & 35' Road Appr. Lt.

95+80 ~ Req'd 18" x 39" Side Drain
with End Sections & Road Appr. Lt.

D.O.R. -
A = 4° 30' Lt.
L = 300.0'
LT = 200.1'
ST = 100.1'

ST. 98+43.9 (D.O.R.)

FEDERAL ROAD DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9 COLORADO	FO30-11(A)	28	

AS CONSTRUCTED
REVISED DATE June 7, 1968

Rev. 12-21-67 - CKM

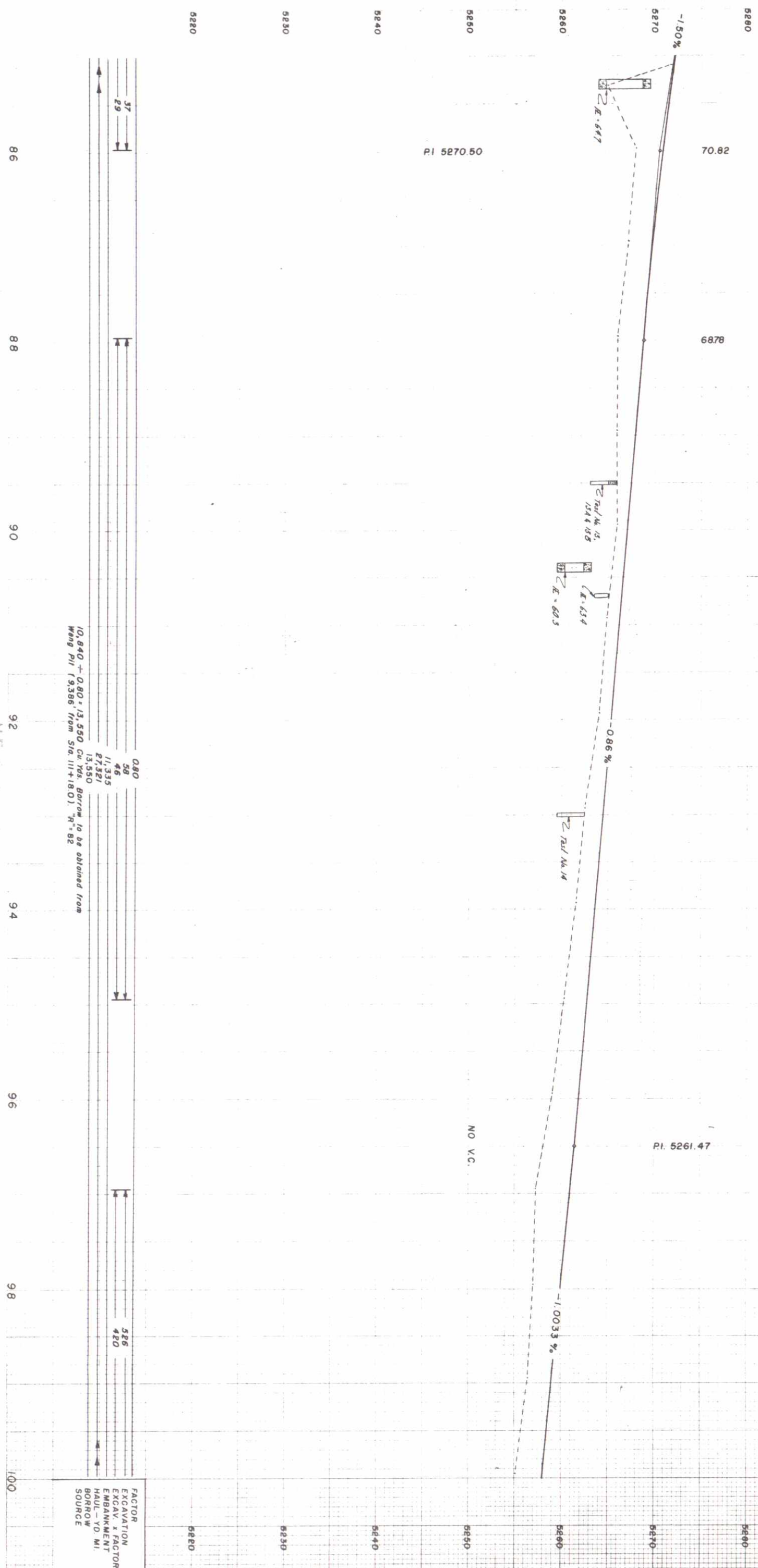
PROJECT NO. F 030-1(4)
SHEET NO. 29

Vert. No. 14 - 4'-4(10)
L.L. = 82
P.I. = 4
% = 2.00 - 54
C.S.P. = 61.0

Vert. No. 15 - 4' - 4(10)
L.L. = 82
P.I. = 7
% = 2.00 - 54
C.S.P. = 61.0

Vert. No. 16 - 4'-4(10)
L.L. = 80
P.I. = 8
% = 2.00 - 54
C.S.P. = 61.0

400' VC

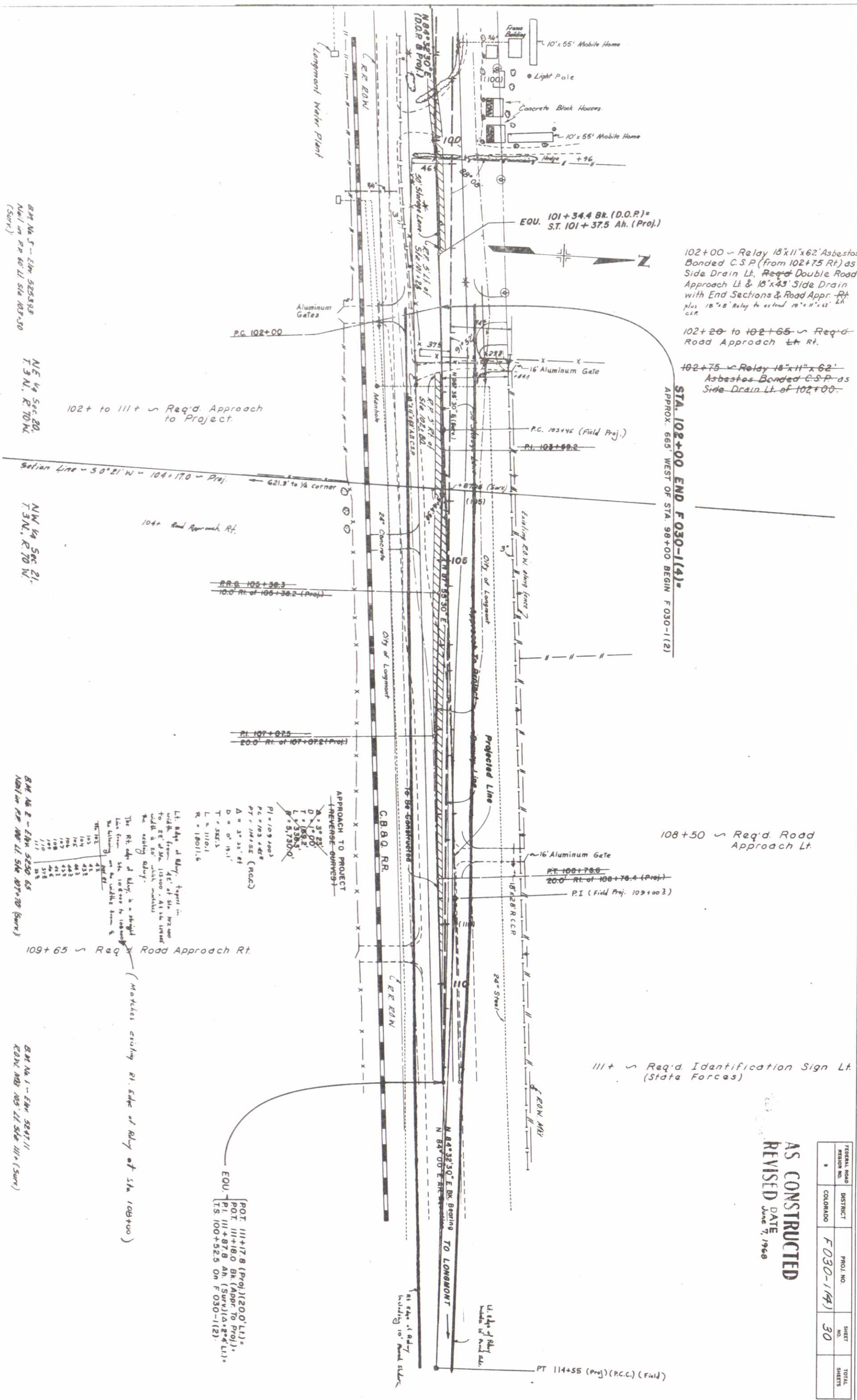


10,840 ± 0.80 ± 13,550 cu yds. Borrow to be obtained from Wang Hill (3,386 from Sta. 111+18.01) R=82

FACTOR
EXCAVATION
EXCAV. X FACTOR
EMBARMENT
HAUL-YD MI.
BORROW
SOURCE

28317

PLAN



BM No. 5 - Elev. 5253.98
 NAD in RP 60 Lt. Sta. 103+50
 (Surv.)

NE 1/4 Sec. 20,
 T.3N., R.70W.

NW 1/4 Sec. 21,
 T.3N., R.70W.

BM No. 2 - Elev. 5250.65
 NAD in RP 60 Lt. Sta. 107+70 (Surv.)

BM No. 1 - Elev. 5247.11
 ROAD MARK 105 Lt. Sta. 111+ (Surv.)

102+ to 111+ ~ Req'd Approach to Project.

104+ Road Approach Rt.

STA. 102+00 END F 030-1(4)
 APPROX. 665' WEST OF STA. 98+00 BEGIN F 030-1(2)

108+50 ~ Req'd Road Approach Lt.

111+ ~ Req'd Identification Sign Lt. (State Forces)

109+65 ~ Req'd Road Approach Rt.
 (Makes existing Rt. Edge of Relay of Sta. 108+00)

POT 111+17.8 (Proj.) (200' L.I.)
 POT 111+18.0 (Proj.) (200' L.I.)
 PT. 111+87.8 (Surv.) (120' L.I.)
 EQU. (S. 100+52.5 ON F 030-1(2))

APPROACH TO PROJECT
 (REVERSE - DRIVES)

PI = 109+00.3
 PC = 103+46.8
 PT = 104+52.5 (P.C.C.)
 $\Delta = 3^\circ 53' 41''$
 $D = 67' 15.1''$
 T = 525.3
 L = 1110.1
 R = 18011.6

AS CONSTRUCTED
 REVISED DATE
 June 7, 1966

FEDERAL ROAD DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
COLOMADO	F 030-1(4)	30	

285/9

Text No. 12 - 4 (14)
 L.L. = 80
 P.I. = 8
 % = 2.00 - 5.4
 C.B.C. = 4.0

Text 15 - Similar No. 18
A-4 (14)

STA. 102+00 End F 030-1 (4)

EQUATION

400' VC

101+34.4 Bk =
101+37.5 Ah.

56.61
56.61

53.98

52.22

50.97

49.38

(111+18.0)

-1.0033 %

-0.50 %

Approach To Project

P.I. 5251.97



PROJECT NO.	F 030-1(4)
SHEET NO.	31

FACTOR
 EXCAVATION
 EXCAV. FACTOR
 EMBANKMENT
 HAUL ID. MI.
 BORROW
 SOURCE

100 102 104 106 108 110 112

5280

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5240

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5270

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