

STATE DEPARTMENT OF HIGHWAYS

DIVISION OF HIGHWAYS—STATE OF COLORADO

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VII	COLORADO	IR 70-3(161)	1	4

RIGHT OF WAY
East of Idaho Springs East

OFFICE COPY
Rev. SH. 254:2-1-87

REVISIONS	

CONVENTIONAL SIGNS

County Line
Township or Range Line
Land Lines
Property or Tract Line
City Limits
Railroad
Existing Road
New Road

Control of Access
Access denied by Dead
Right of Way Line
Protected by Freeway (Virgin Location)
Top of Cuts
Toe of Fills
Barbed Wire Fence
Chain Link Fence
Woven Wire-Combination Fence
Snow Fence
Wood Fence
Dear Fence

Trees
Deciduous
Coniferous

Tel & Teleg. Lines
Electric Lines
Elec. Trans. Tower
Buried Tel. Cable
Buried Electric Cable
Gas Main
Oil Main
Water Main
Sanitary Sewers
Storm Sewers

Road Approaches
Section Corner
Center of Section

Culverts & Drains
Proposed
Existing
Proposed
Existing (To be dashed)

Bridges
Existing (To be dashed)

RIGHT OF WAY PLAN OF PROPOSED FEDERAL AID PROJECT NO. IR 70-3(161) STATE HIGHWAY NO. 70 CLEAR CREEK COUNTY RIGHT OF WAY

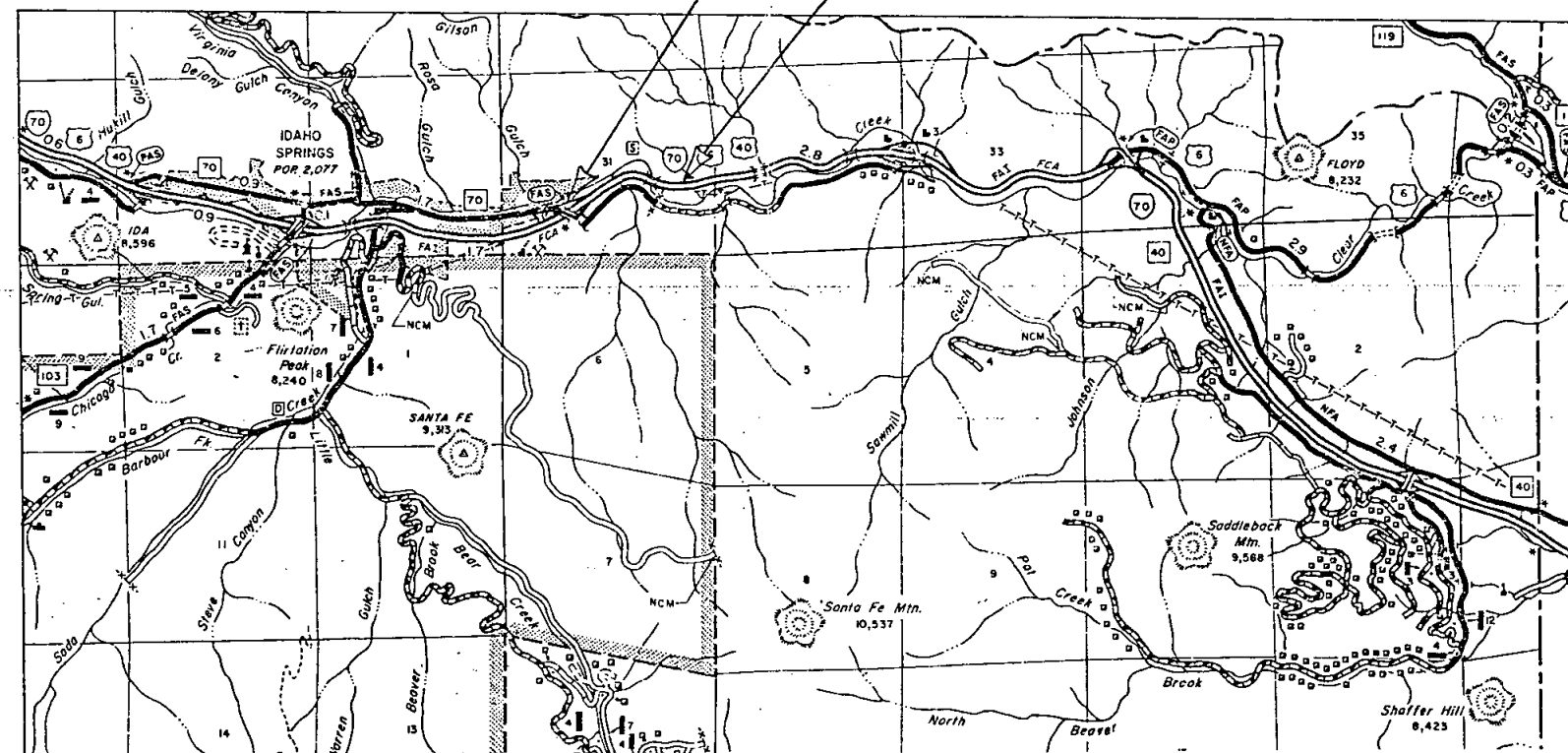
SCALE OF ORIGINAL DRAWINGS

PLAN SHEETS 1" = 100'
DETAIL SHEETS 1" = 100'
OWNERSHIP MAPS 1" = 100'

ROW LENGTH OF PROJECT = 3004.44 ft. / 0.569 mi

BEGIN R.O.W. ON IR 70-3(161) =
STA. 131+00 on IR 70-3(161) =
STA. 131+00 on F 005-3(9)
m.p. 241.37

END R.O.W. ON IR 70-3(161) =
STA. 161+04.44 on IR 70-3(161) =
STA. 161+77.93 on F 005-3(9)
m.p. 241.94



INDEX OF SHEETS

1. TITLE SHEET
2. TABULATION OF OWNERSHIPS
3. CONTROL and MONUMENTATION SHEET
4. R.O.W. PLAN DETAIL SHEET and ownership

DIVISION OF HIGHWAYS	
APPROVED:	8-26-88
DISTRICT ENGINEER	DATE

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED:	DATE
DIVISION ADMINISTRATOR	

Basis of Bearings: Basis of Bearing on this project are point nos. 252 (C1/4 Sec. 31) and 251 (R.O.W. mkr. 1/4 sec. line Lt. sta. 139+90.17)

Date: August 1988
Subaccount: 96020
District: 1

COUNTY S.H. No. 70 PROJ. IR 70-3 (161)

RIGHT OF WAY East of Idaho Springs-East

[illegible]

CONTROL AND MONUMENTATION SHEET

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	IR 70-3 (161)	3	4

RIGHT OF WAY

EAST OF IDAHO SPRINGS-
EAST

REVISIONS

TABULATION OF R.O.W. MARKERS TO BE SET

Point	N	E	LOCATION FROM F005-3(9)
302	19720.644	40986.802	96.4' RT. 157+99.07
306	19631.899	39996.892	325.0' RT. 149+50
307	19511.724	39935.386	460.0' RT. 149+50
310	19827.572	39138.339	374.0' RT. 137+05.55
311	19676.634	38564.453	208.1' RT. 131+00
1010	19692.469	40760.621	94.6' RT. 155+82.57
1013	19696.828	41377.143	191.3 RT. 161+77.93

SURVEY CONTROL POINT TABULATION

POINT	N	E	DESCRIPTION
82	20073.249	39130.118	PROPERTY PIN
21	19435.063	41706.654	SE COR. NE 1/4 SE 1/4 SEC. 31
251	20347.661	39236.513	R.O.W. MKR. 1/4 SEC. LINE
252	20624.101	39062.348	C 1/4 SEC. 31
1012	19765.806	41283.383	L. S. PIN
1044	18047.488	39236.722	S 1/4 COR. SEC. 31

BASIS OF BEARING ON THIS PROJECT ARE POINT NOS. 252 (C 1/4 SEC. 31) &
251 (R.O.W. MKR. 1/4 SEC. LINE LT. STA 139+90.17

BEARING = S. 32°12'43"E DIST. = 326.73

BEARINGS ARE CALCULATED USING CENTERLINE SHOWN ON F005-3(9)

GENERAL NOTES

1. This Right of Way plan is not a complete boundary survey of all adjoining owners and is prepared for Highway Department purposes only.
2. Field survey control precision computed to exceed $\frac{1}{20,000}$.
3. Memorandum of Ownerships supplied by the Clear Creek-Gilpin Abstract & Title.
4. NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event, may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.
5. All R.O.W. Markers set from survey control points.
6. All centerline and offset stationing is theoretical only and may not represent the centerline as constructed in the field.
7. All coordinates listed are assumed project coordinates.

SURVEYOR CERTIFICATE (FIELD)

Control survey and monumentation was done under my supervision and checking.

Name _____ P.L.S. No. _____

Date _____

SURVEYOR CERTIFICATE (OFFICE)

ROW Plans and Legal Descriptions were prepared under my supervision and checking.

Name _____ P.L.S. No. _____

Date _____

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VII	COLORADO	IR 70-3(161)	4	4

REVISIONS		
REVISED	sq. ft. / ac. to Parcel No. 2	
1-17-89	8 TE-2	D-1
3-31-89	Added 'Rev' To Par No. 1W	D-1

**RIGHT OF WAY
EAST OF IDAHO SPRINGS-
EAST**

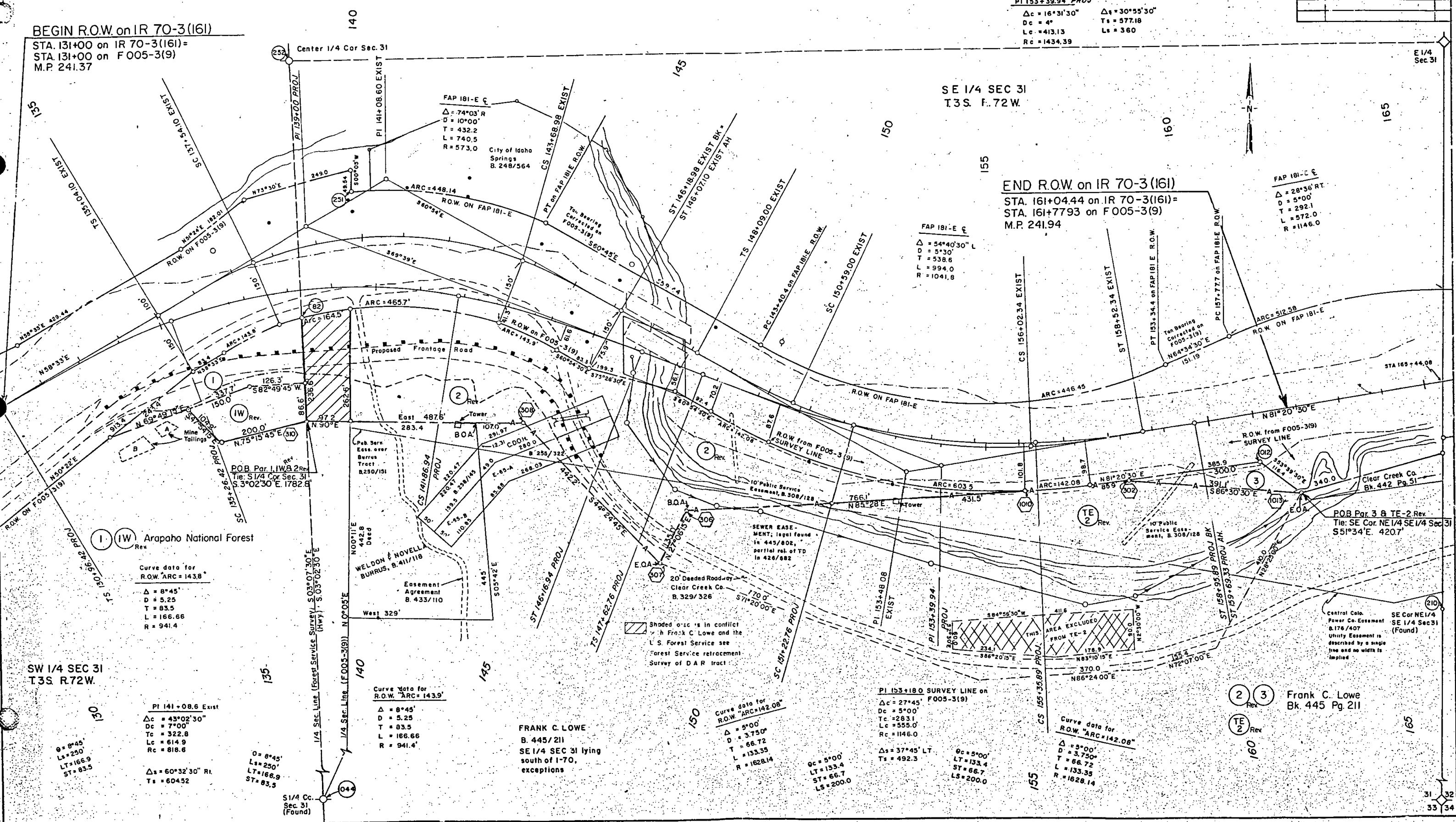
PI 139+00 PROJ
 $\Delta c = 31^{\circ}22'30''$
 $Dc = 4^{\circ}45'$
 $Lc = 660.53$
 $Rc = 1206.23$

PI 153+48.08 EXIST
 $\Delta c = 27^{\circ}10'$
 $Dc = 5^{\circ}$
 $Lc = 543.33$
 $Rc = 1145.9'$

PI 153+39.94 PROJ
 $\Delta c = 16^{\circ}31'30''$
 $Dc = 4^{\circ}$
 $Lc = 413.13$
 $Rc = 1434.39$

BEGIN R.O.W. on IR 70-3(161)
 STA. 131+00 on IR 70-3(161)=
 STA. 131+00 on F005-3(9)
 M.P. 241.37

END R.O.W. on IR 70-3(161)
 STA. 161+04.44 on IR 70-3(161)=
 STA. 161+7793 on F005-3(9)
 M.P. 241.94



Curve data for R.O.W. ARC=143.8'
 $\Delta = 8^{\circ}45'$
 $D = 5.25$
 $T = 83.5$
 $L = 166.66$
 $R = 941.4$

PI 141+08.6 EXIST
 $\Delta c = 43^{\circ}02'30''$
 $Dc = 7^{\circ}00'$
 $Tc = 322.8$
 $Lc = 614.9$
 $Rc = 818.6$

Curve data for R.O.W. ARC=143.9'
 $\Delta = 8^{\circ}45'$
 $D = 5.25$
 $T = 83.5$
 $L = 166.66$
 $R = 941.4$

FRANK C. LOWE
 B. 445/211
 SE 1/4 SEC 31 lying
 south of I-70,
 exceptions

Curve data for R.O.W. ARC=142.08'
 $\Delta = 5^{\circ}00'$
 $D = 3.750'$
 $T = 66.72$
 $L = 133.35$
 $R = 1628.14$

PI 153+18.0 EXIST
 $\Delta c = 27^{\circ}45'$
 $Dc = 5^{\circ}00'$
 $Tc = 283.1$
 $Lc = 555.0'$
 $Rc = 1146.0$

Curve data for R.O.W. ARC=142.08'
 $\Delta = 5^{\circ}00'$
 $D = 3.750'$
 $T = 66.72$
 $L = 133.35$
 $R = 1628.14$

Frank C. Lowe
 Bk. 445 Pg. 211

STATE DEPARTMENT OF HIGHWAYS
DIVISION OF HIGHWAYS—STATE OF COLORADO

PLAN AND PROFILE OF PROPOSED
COMBINED **FEDERAL AID PROJECT NO.** IR 70-3(161) & IR 70-3(178)
STATE HIGHWAY NO. 70
CLEAR CREEK COUNTY

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
XIII	COLORADO	IR 70-3(161) & IR 70-3(178)	1

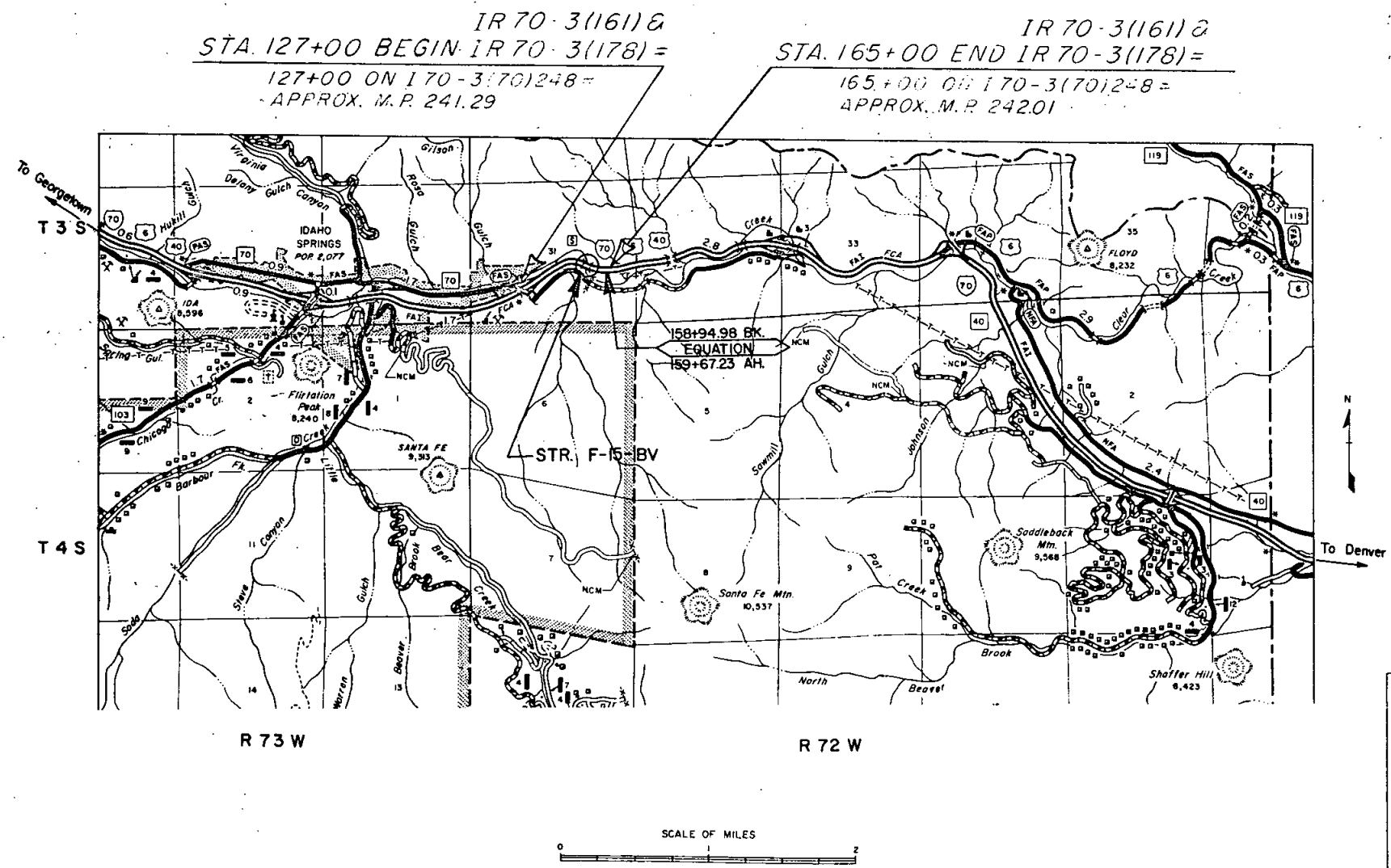
AS CONSTRUCTED	
NO REVISIONS	REVISED
	VOID

REVISIONS	

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

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS LIST
3 - 4	TYPICAL SECTIONS
5	DESCRIPTION OF PROJECTS, TABULATION OF LENGTH, DESIGN DATA, GENERAL NOTES AND SEEDING PLAN
6 - 8	SUMMARY OF APPROXIMATE QUANTITIES
9	SUMMARY OF EARTHWORK QUANTITIES, SUBBASE AND SURFACING PLAN AND TABULATION OF GUARD RAIL
10	STRUCTURE QUANTITIES
11 - 36	BRIDGE SHEETS - STR. NO. F-15-BV
37	PROPOSED ALIGNMENT
38 - 39	PLAN AND PROFILE SHEETS
40	FRONTAGE ROAD PROFILE SHEET
41	WETLAND LANDSCAPE PLAN
42 - 45	PHASING DETAILS
46 - 53	TRAFFIC CONTROL
54	FLASHING BEACON (PORTABLE) DETAILS
55	TABULATION OF SIGNING QUANTITIES, SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES AND TYPICAL SAND BARREL ATTENUATOR LAYOUT

NEW AND REVISED STANDARDS		
M-203-11	SUPERELEVATION OF CURVES - DIVIDED HIGHWAYS - SHOULDER PIVOT	(1 SHEET) 8-16-84
M-203-12	SUPERELEVATION OF CURVES - STREETS	(1 SHEET) 8-16-84
M-606-12	GUARD RAIL-TYPE 4 CONCRETE BARRIER	(9 SHEETS) 2-16-83
M-C20-2	FIELD LABORATORY CLASS 2	(1 SHEET) 5-25-88



DIVISION OF HIGHWAYS	
APPROVED:	
<i>James E. Diehl</i> Asst. CHIEF ENGINEER	1-17-89 DATE

AS CONSTRUCTED INFORMATION	
CONTRACTOR	_____
ENGINEER (Project or Resident)	_____
PROJECT STARTED	_____
PROJECT COMPLETED	_____
AS CONSTRUCTED PLANS APPROVED	_____
TITLE	DATE

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED:	
DATE	
DIVISION ADMINISTRATOR	

PROPOSED ALIGNMENT MAIN LINE

I 70 RE-ALIGNMENT
EAST OF IDAHO SPRINGS
AT SEWER PLANT CURVE

EXIST. CURVE DATA

$\Delta_s = 39^\circ 40' 00''$ LEFT
 $T_s = 539.078'$
 $\Delta_c = 27^\circ 10' 00''$ $\theta_s = 6^\circ 15'$
 $D_c = 5^\circ 00'$ $L_s = 250'$
 $L_c = 543.333'$ $LT = 166.771'$
 $R_c = 1145.916'$ $ST = 83.428'$

PROJECTED CURVE DATA

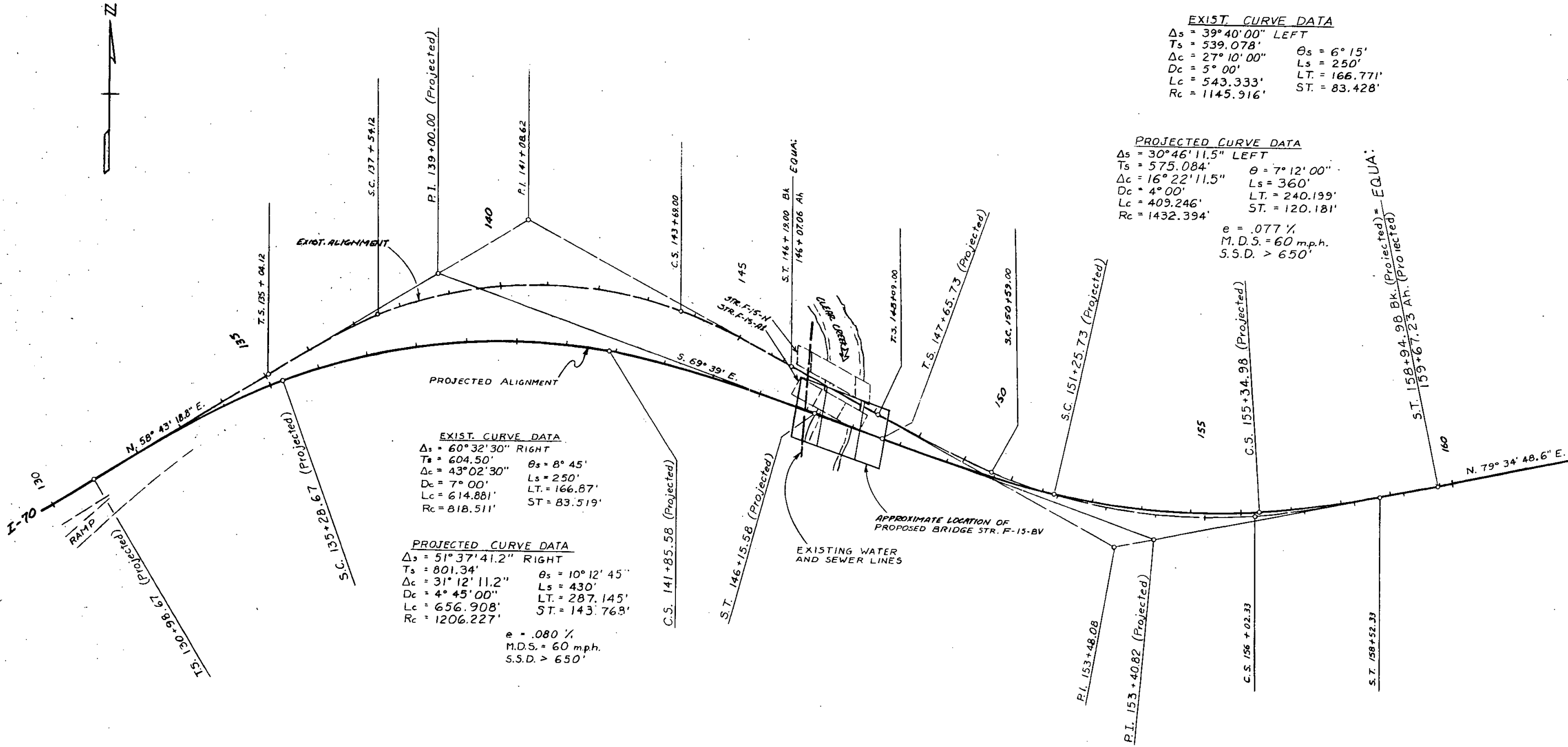
$\Delta_s = 30^\circ 46' 11.5''$ LEFT
 $T_s = 575.084'$ $\theta = 7^\circ 12' 00''$
 $\Delta_c = 16^\circ 22' 11.5''$ $L_s = 360'$
 $D_c = 4^\circ 00'$ $LT = 240.199'$
 $L_c = 409.246'$ $ST = 120.181'$
 $R_c = 1432.394'$
 $e = .077\%$
 $M.D.S. = 60 \text{ m.p.h.}$
 $S.S.D. > 650'$

EXIST. CURVE DATA

$\Delta_s = 60^\circ 32' 30''$ RIGHT
 $T_s = 604.50'$ $\theta_s = 8^\circ 45'$
 $\Delta_c = 43^\circ 02' 30''$ $L_s = 250'$
 $D_c = 7^\circ 00'$ $LT = 166.87'$
 $L_c = 614.881'$ $ST = 83.519'$
 $R_c = 818.511'$

PROJECTED CURVE DATA

$\Delta_s = 51^\circ 37' 41.2''$ RIGHT
 $T_s = 801.34'$ $\theta_s = 10^\circ 12' 45''$
 $\Delta_c = 31^\circ 12' 11.2''$ $L_s = 430'$
 $D_c = 4^\circ 45' 00''$ $LT = 287.145'$
 $L_c = 656.908'$ $ST = 143.763'$
 $R_c = 1206.227'$
 $e = .080\%$
 $M.D.S. = 60 \text{ m.p.h.}$
 $S.S.D. > 650'$



STA 132+00 RT. AT INLET (FR. RD.) REQ'D.
20' X 18" C.S.P. WITH END SECTIONS
TO STA 132+40 FROM STA. 131+00
DISE RT. (EL. 7430.0)

D.A. = 2.14 80' MI.
Q 50 = 15 cfs
DHW = 7448.9
AHW = 7450.0 (DIKE) SEE STA 145+
Q 100 = 15 cfs
HW = 7448.9

STA 132+40 - PLUG 24" X 143' C.S.P.
REQ'D. 30' X 172' C.S.P.
WITH END SECTION RT.
SEE HYD. DATA STA. 132+00
DHW = 7445.6
AHW = 7446.5
HW = 7445.6

STA 135+95 - REMOVE 24" X 87' C.S.P.
(FRONTAGE RD.) & TYPE C INLET
PLUG 24" X 122' C.S.P. (MAIN LINE)

STA 142+ (LT. OF FRONTAGE RD.)
REMOVAL OF WALL 70' X 7' (CRIBBING)

BENCH MARK 4 #5 REBAR ON FENCE
AT OLD SEWER PLANT STA. 144+00

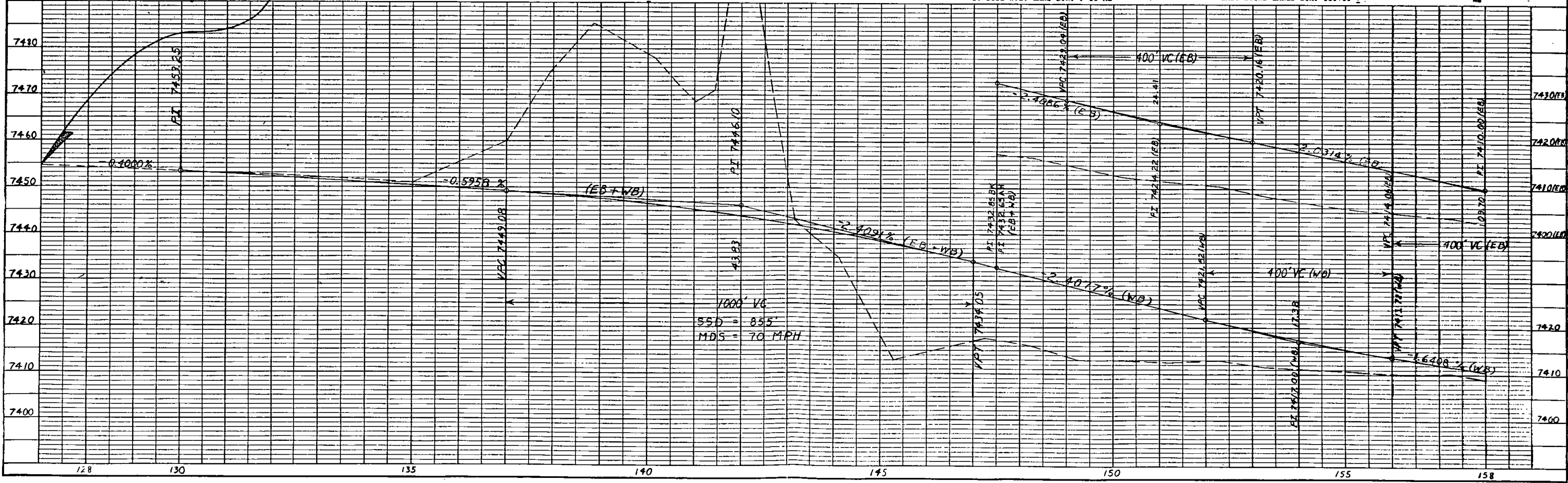
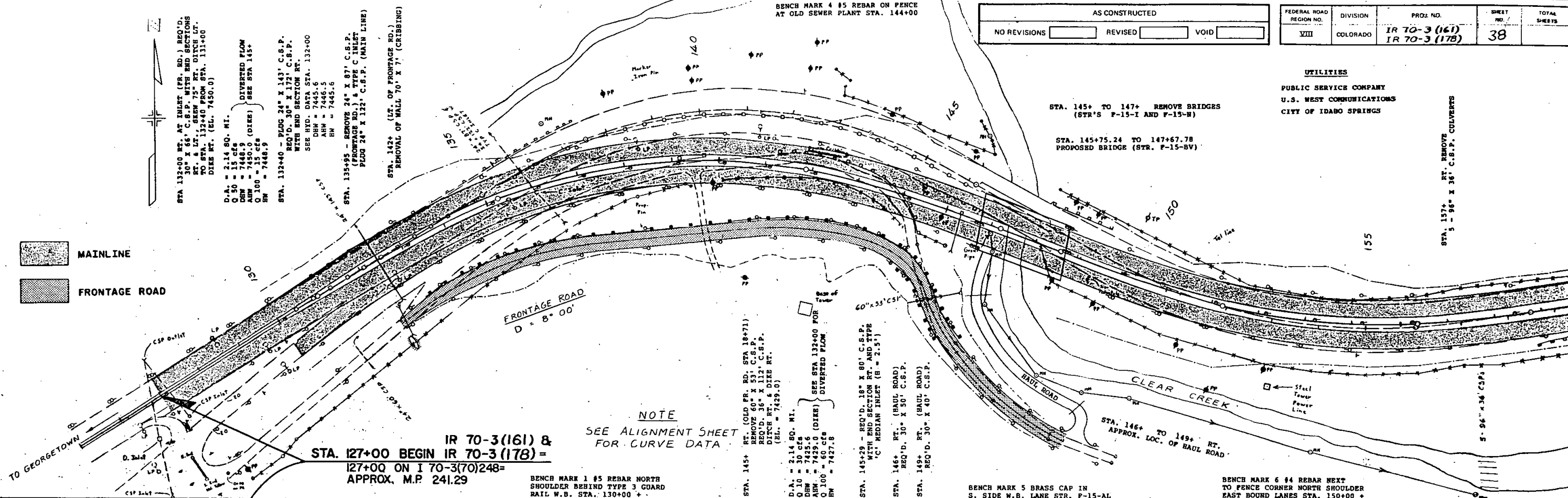
AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	IR 70-3 (161) IR 70-3 (178)	38	

UTILITIES
PUBLIC SERVICE COMPANY
U.S. WEST COMMUNICATIONS
CITY OF IDAHO SPRINGS

STA. 137+ RT. REMOVE
5' - 96" X 36" C.S.P. CULVERTS

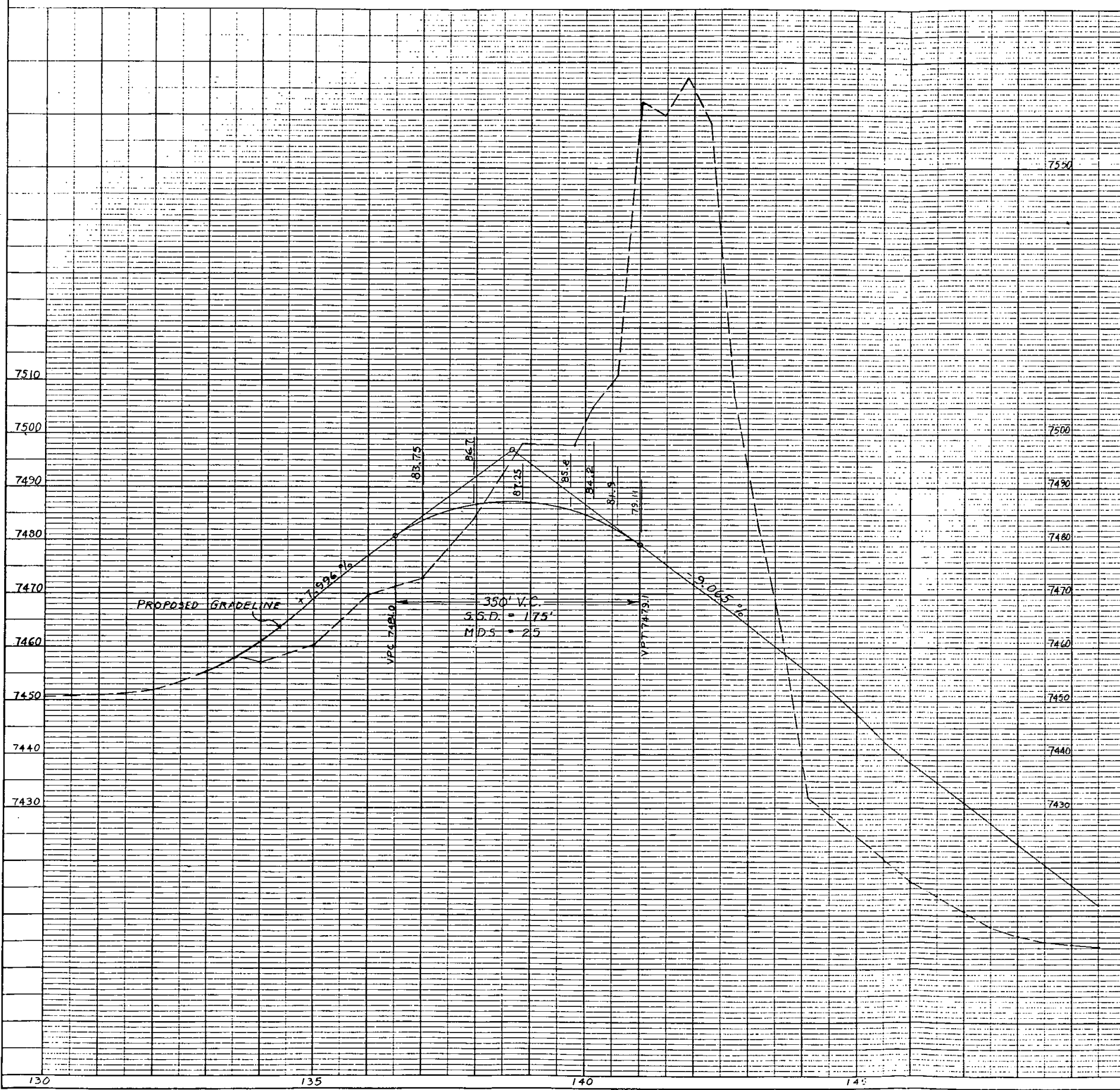
MAINLINE
FRONTAGE ROAD



AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	IR 70-3 (161) IR 70-3 (178)	40	

FRONTAGE ROAD PROFILE
OPPOSITE PROJECTED M.L. STATIONS



NO. 1
STRUCTURAL MATERIALS CHECKED