COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500001065

Description:
ROW Plans 24X36

Route # and Mile Points:
SH 145

Originating Office:

ROW/Survey

File Name:
F 020-1(2)_ROW(.PDF)

Box Location:
20 (TUBE-25)of 38

For assistance, or to request changes to this form,
please email helpdesk@msimaging.com.

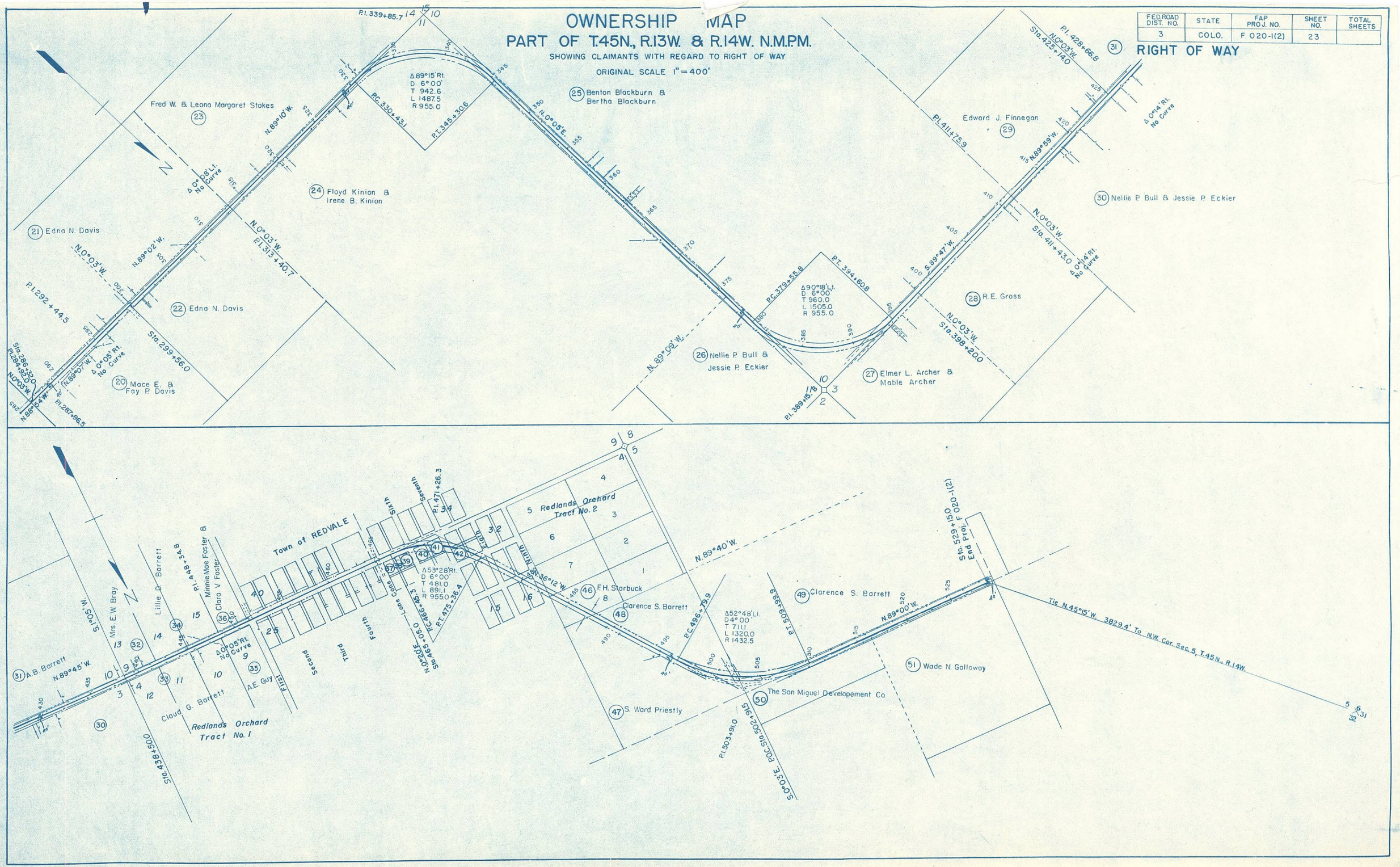
MOUNTAIN STATES
IMAGING

F020-1 (2)

OWNERSHIP MAP
PART OF T.45N., R.13W. & R.14W. N.M.P.M.
SHOWING CLAIMANTS WITH REGARD TO RIGHT OF WAY

ORIGINAL SCALE 1" = 400'

FED. ROAD DIST. NO.	STATE	FAP PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 020-1(2)	23	



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500001069

Description:
ROW Plans 24X36

Route # and Mile Points:
SH 145

Originating Office:

ROW/Survey

File Name:
F 020-1(2)_ROW(.PDF)

Box Location:
21 (TUBE-1)of 38

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MOUNTAIN STATES IMAGING

F020-1(2)

N.E. 1/4, Sec. 6, T. 45 N., R. 14 W.

S.E. 1/4, Sec. 31, T. 46 N., R. 14 W.

FED. R. DIST. 3

OWNERSHIP MAP

Plat of Part of Townships 45 and 46 North, Range 14 West, N.M.P.M. showing with regards to Right-of-Way of Project F 020-1(2)

ORIGINAL SCALE 1"=400'
May 11, 1951

Recomended Right-of-Way 80'

1 SW 1/4, Sec. 5

2 NW 1/4, Sec 5

3 SE 1/4, Sec 31

4 SW 1/4, Sec 32

SE 1/4, Sec 6

T. 45 N., R. 14 W.
T. 46 N., R. 14 W.

N. 0° 39' E.

P.I. 56+11.698

N. 87° 01' W.

N. 50° 59' W.

N. 0° 39' E.

P.I. 524+28.2

P.I. 529+72.7

P.I. 537+96.6

P.I. 556+36.5

P.I. 569+02.8

P.I. 572+54.7

P.C. 524+01.4

P.C.S. 529+72.7

P.C.S. 537+96.6

P.C.S. 556+36.5

P.C.S. 569+02.8

P.T. 572+54.7

P.S.S. 524+01.4

$\theta_1 = 7°30'$
$L_s = 300$
$L_T = 200.1$
$S_T = 100.1$

$\Delta = 38°01' Rt$
$T_s = 545.8$
$D_c = 2°01'$
$D_s = 5°00'$
$L_c = 1233.3$
$L_s = 440.3$

$\theta_1 = 7°30'$
$L_s = 300$
$L_T = 200.2$
$S_T = 100.2$

$\theta_2 = 6°00'$
$L_s = 300$
$L_T = 200.1$
$S_T = 100.1$

$\Delta_c = 50°56' Rt$
$T_s = 833.3$
$\Delta_c = 38°56'$
$D_c = 4°$
$T_c = 506.4$
$L_c = 973.3$

$\theta_2 = 6°00'$
$L_s = 300$
$L_T = 200.1$
$S_T = 100.1$

26.23 ft. to Sec. Corner

P.S. 569+09.8

1045 ft.

1423 ft.

N. 58° N. R. 14 W. N.M.P.M.

1.48 M.P.M. N. 14 W.

County Road

N. 0° 39' W. 580

N. 0° 45' W.

N. 0° 05' W.

535 540 545 550 555 560 565 570 575 580 585 590 595

40'

NW 1/4, Sec. 5, T. 45 N., R. 14 W.

SW 1/4, Sec. 32, T. 34 N., R. 14 W.

COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500001080

Description:
ROW Plans 24X36

Route # and Mile Points:
SH 145

Originating Office:

ROW/Survey

File Name:
F 020-1(2)_ROW(.PDF)

Box Location:
21 (TUBE-3)of 38

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MOUNTAIN STATES
IMAGING

F020-1 (2)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	/	

RIGHT OF WAY Rev. 9-12-51 S.W.Z.

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F020-1(2)
STATE HIGHWAY NO. 145
IN SAN MIGUEL & MONTROSE COUNTIES

INDEX OF SHEETS

SHEET NO. 1 TITLE SHEET.

2-3A TABULATION OF PROPERTIES.

4-21B ALIGNMENT PLAN AND PROFILE. SHOWING RIGHT OF WAY

22-24 OWNERSHIP MAP

CONVENTIONAL SIGNS

CENTER LINE — TITLE SHEET
RIGHT OF WAY
SECTION LINE
QUARTER SECTION LINE
RAILROAD
BARBED WIRE FENCE
COMBINATION FENCE
TELEPH. & TELEG. LINE
POWER LINE

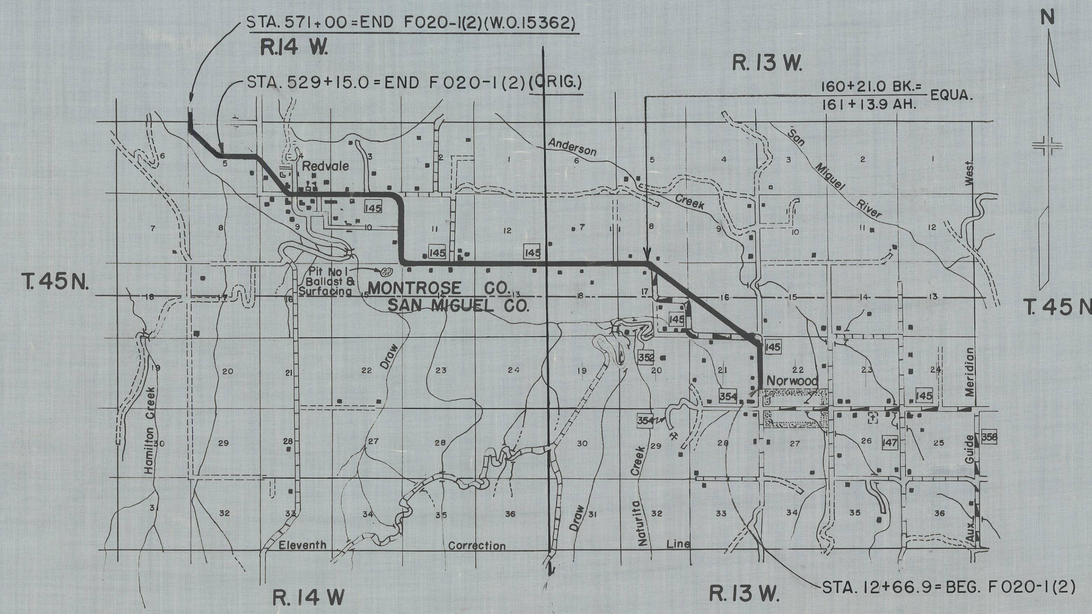
SCALES

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

GROSS LENGTH OF PROJECT } 51,555.2 FEET = 9.764 MILES
NET LENGTH OF PROJECT }

RIGHT OF WAY



MICROFILMED

R.O.W. TABULATION OF PROPERTIES IN SAN MIGUEL & MONTROSE COUNTIES S.H. No. 145 PROJ. F020-1(2).

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 020-1(2)	2	

RIGHT OF WAY

PARCEL NO.	OWNER	ADDRESS	LOCATION	AREA IN ACRES			REMARKS	NO.
				TOTAL LAND IN TRACT	PARCEL	TO BE ACQUIRED		
			T. 45 N., R. 13 W., N.M. P.M.					
1	SAN MIGUEL BASIN FAIR ASS'N.		S.W. 1/4 Sec. 22		1.128	0.282		
2	EVA L. McKEEVER		S.E. 1/4 Sec. 21		0.753	0.188		
3	MARVEL R. SOUTHER		S.E. 1/4 Sec. 21		1.209	0.378		
4	AGNES L. CUNNINGHAM		S.W. 1/4 Sec. 22		0.835	0.227		
5	J. WILLIAM NIX 1/3, LENA A. NIX 1/3, W. HUBERT NIX & MARY E NIX 1/3.		N.W. 1/4 Sec. 22		1.795	0.464		
6	J. WILLIAM NIX 1/3, LENA A. NIX 1/3, W. HUBERT NIX & MARY E. NIX 1/3.		N.E. 1/4 Sec. 21		4.482	3.261		
7	STATE OF COLORADO SCHOOL SECTION		S. 1/2 Sec. 16		11.836	11.661	Mr. O.A. GREAGER is assessed with improvements on this land but does not have title. Has agreement with State.	7
8	ROBERT T. ALEXANDER		N.W. 1/4 (Lot) Sec. 16		0.498	0.498		
9	ROBERT T. ALEXANDER		N.E. 1/4 Sec. 17		8.012	7.972		
10	CHARLES F. JACOBS		N.W. 1/4 Sec. 17		2.922	0.876		
11	CHARLES F. JACOBS		S.W. 1/4 Sec. 8		2.025	0.304		
12	C.D. WAGGONER, Jr.		N.E. 1/4 Sec. 18		1.244	0.519		
13	CLARENCE H. GIBSON		S. 1/2 Sec. 7		4.779	1.195		
14	W. W. WILLIAMS		N.E. 1/4 Sec. 18		1.180	0.283		
15	D. LEWIS WILLIAMS		N.W. 1/4 Sec. 18		2.355	0.442		
			T. 45 N., R. 14 W., N.M. P.M.					
16	LOY MOCK		S.E. 1/4 Sec. 12		2.418	0.725		
17	C.P. REED, DINA C. REED, CHARLES H. REED & ZENOBIA A. REED		N.E. 1/4 Sec. 13		2.418	0.831		
18	EDNA N. DAVIS		S. W. 1/4 Sec. 12		2.445	0.489		
19	AL. C. WILLIAMS & MARIE H. WILLIAMS		N.W. 1/4 Sec. 13		2.444	0.330		
20	MACE E. DAVIS & FAYE P. DAVIS		S.E. 1/4 Sec. 11		1.216	0.319		
21	EDNA N. DAVIS		N.E. 1/4 Sec. 14		2.487	0.354		
22	EDNA N. DAVIS		S.E. 1/4 Sec. 11		1.272	0.430		

MONTROSE CO. — SAN MIGUEL CO.

MICROFILMED

IMPERIAL "I" TRACING CLOTH
K & E CO., N.Y.

R.O.W. TABULATION OF PROPERTIES IN SAN MIGUEL & MONTROSE COUNTIES S.H. No. 145 PROJ. F020-1(2)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F020-1(2)	3	

RIGHT OF WAY

PARCEL NO.	OWNER	ADDRESS	LOCATION	AREA IN ACRES			REMARKS	NO.
				TOTAL LAND IN TRACT	PARCEL	TO BE ACQUIRED		
			T.45 N., R.14W., N.M. P.M.					
23	FRED W. & LEONA MARGARET STOKES		N.W. 1/4 Sec. 14		1.735	0.370		
24	FLOYD KINION & IRENE B. KINION		W. 1/2 Sec. 11		6.765	3.151		
25	BENTON BLACKBURN & BERTHA BLACKBURN		E. 1/2 Sec. 10		7.287	2.751		
26	JESSIE P. ECKLER & NELLIE P. BULL		N.W. 1/4 Sec. 11		0.504	0.111		
27	ELMER L. ARCHER & MABLE ARCHER		S.E. 1/4 Sec. 3		0.501	0.158		
28	R.E. GROSS		S.E. 1/4 Sec. 3		1.215	0.365		
29	EDWARD J. FINNEGAN		N.W. 1/4 Sec. 10		1.259	0.276		
30	JESSIE P. ECKLER & NELLIE P. BULL		S.W. 1/4 Sec. 3		2.484	0.806		
31	A.B. BARRETT		N.W. 1/4 Sec. 10		1.227	0.230		
32	MRS. E.W. BRAY		N.E. 1/4 Sec. 9		0.038	0.038		
33	CLAUDE G. BARRETT		S.E. 1/4 Sec. 4		0.113	0.113		
34	LILLIE D. BARRETT		N.E. 1/4 Sec. 9		0.075	0.075		
35	A.E. GAY		S.E. 1/4 Sec. 4		0.040	0.040		
36	MINNIE MAE FOSTER & CLARA V. FOSTER		N.E. 1/4 Sec. 9		0.035	0.035		
37	RAYMOND W. STRAWN & VEOLA V. STRAWN		S.W. 1/4 Sec. 4		0.001	0.001		
38	REDLANDS TOWNSITE CO. (A Corp.)		S.W. 1/4 Sec. 4		0.002	0.002		
39	REVA S. LUTZ		S.W. 1/4 Sec. 4		0.022	0.022		
40	A.E. GAY		S.W. 1/4 Sec. 4		0.184	0.184		
41	REDLANDS TOWNSITE CO. (A Corp.)		S.W. 1/4 Sec. 4		0.252	0.252		
42	REVA S. LUTZ		S.W. 1/4 Sec. 4		0.412	0.064		
43	REDLANDS TOWNSITE CO. (A Corp.)		S.W. 1/4 Sec. 4		0.187	0.112		
44	REDLANDS TOWNSITE CO. (A Corp.)		S.W. 1/4 Sec. 4		0.316	0.078		
45	REDLANDS TOWNSITE CO. (A Corp.)		S.W. 1/4 Sec. 4		0.380	0.111		
46	F.H. STARBUCK		S.W. 1/4 Sec. 4		0.740	0.137		

MONTROSE CO.

MICROFILMED

R.O.W. TABULATION OF PROPERTIES IN SAN MIGUEL & MONTROSE COUNTIES S.H. No. 145 PROJ. F 020-1(2)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F020 1(2)	3 A	

RIGHT OF WAY

Rev. 9-12-51 S.W.Z.
Rev. 7-14-53 S.W.Z.

MONTROSE CO.

PARCEL NO.	OWNER	ADDRESS	LOCATION	AREA IN ACRES: TOTAL LAND IN TRACT	PARCEL	TO BE ACQUIRED					REMARKS	NO.
			T. 45 N., R. 14 W., N.M.P.M.									
47	S. WARD PRIESTLY		S.W. 1/4 Sec. 4		1.112	0.164						
48	CLARENCE S. BARRETT		S.W. 1/4 Sec. 4		1.789	0.743						
49	CLARENCE S. BARRETT		S.E. 1/4 Sec. 5		2.850	1.142						
50	THE SAN MIGUEL DEVELOPMENT CO.		N.E. 1/4 Sec. 5		0.748	0.188						
51	WADE N. GALLOWAY		N.E. 1/4 Sec. 5		1.219	0.243						
			W.O. 15362									
52	ALICE B. PHILLIPS		S.W. 1/4 Sec. 5		0.138	0.000						
53	HATTIE SKEES		NW 1/4 Sec. 5		0.140	0.000						
54Rev.	KENNETH SPILLMAN		NW 1/4 Sec. 5		6.894	2.970						
55	U.S. GOVERNMENT		NE 1/4 Sec. 6									
56	DELETED											
57	DELETED											

MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	4	

RIGHT OF WAY

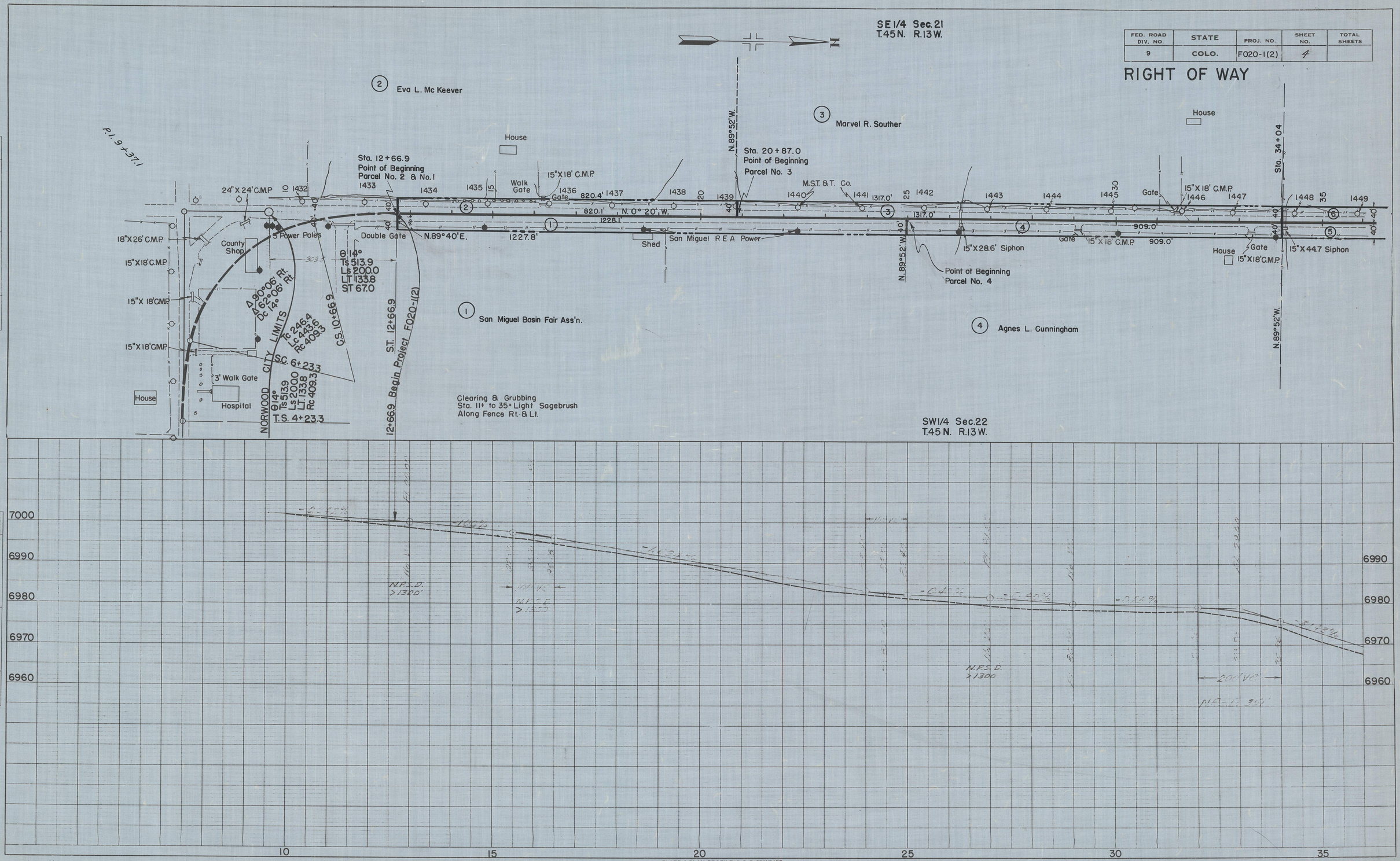


PLATE I-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO. Chicago-New York

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

PROFILE NOTE BOOK NO. — SURVEYED, PLOTTED, GRADES CHECKED, B.M.'s NOTED, STRUCTURE NOTATIONS CHKD — BY — DATE

MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	5	

Sta. 34+04.0
Point of Beginning
Parcel No. 6

N.89°52'W.

Point of Beginning
Parcel No. 5

40' 40'

35

40

N.0°-20'W

1595.7'

San Miguel R.E.A. Power Line

18"X 26' C.M.P.

15"X 26' C.M.P.

House

Irrig.

Conc. Sidewalk

45

1596.3'

1994.7'

1994.7'

18"X 30' Siphon

M.S.T.&T. Co.

S.7°00'E.
86.2'

15"X 18' C.M.P.

N.6°20'E.
86.2'

15"X 18' C.M.P.

50

P.C. 50+55.6

Arc 318.4'

Arc 1082.5'

Arc 883.8'

55

Present Road

Willows

8

N.68°52'W

P.I. 57+36.2

N.89°53'W.

Sta. 64+66.4

P.I. 62+27.8

18"X 26' C.M.P.

368.7'

278.8'

108.4'

Present Road

Gurley Canal

7

STATE OF COLORADO

Δ 68° 32' Lt.
D 6° 00'
T 650.6
L 1142.2
R 955.0

6 J. William Nix 1/3
Lena A. Nix 1/3
W. Hubert & Mary E. Nix 1/3

5 J. William Nix 1/3
Lena A. Nix 1/3
W. Hubert & Mary E. Nix 1/3

Clearing & Grubbing

35+ to 39+ Heavy Willows along Fence Rt. & Lt.
39+ to 43+ Light Sage along Fence Rt. & Lt.

Clearing & Grubbing

57+ - 59+ Heavy Willows Lt.

NE1/4 Sec. 21
T. 45N. R. 13W.

NW 1/4 Sec. 22
T. 45N. R. 13W.

SE1/4 Sec. 16
T. 45N., R. 13W.

16 21 22

RIGHT OF WAY

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

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

MICROFILMED

-3.1429%
-0.633%
+0.1333%
-1.00%
0.0%
-0.60%
-1.5339%

200' V.C.
100' V.C.
N.P.S.D. 1300
N.P.S.D. 1000

6970
6960
6950
6940
6930

35 40 45 50 55 60 65

PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO. Chicago-New York

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NE1/4 Sec. 21
T.45N., R.13W.

SW1/4 Sec. 16
T.45N., R.13W.

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	6	

RIGHT OF WAY

N.89°53'W.

278.8'

Present Road

1384.5'

N68°52'W

1644.7'

Arc 2034.4'

Arc 1999.2'

N.0°05E.

P.I. 90+00

Gurley Canal

50' Rt. Sta. 63+36.2
Point of Beginning
Parcel No. 7

(7) State of Colorado School Section
S 1/2 Sec. 16

P.C. 79+81.0

Δ 20°10' Rt.
D 1°00
T 1019.0
L 2016.7
R 5730.0

50'

50'

Clearing & Grubbing

65+ to 82+ Medium Sagebrush Rt. & Lt.

82+ to 95+ Heavy Sagebrush & Scattered Pinons Rt. & Lt.

SE1/4 Sec. 16
T.45N., R.13W.

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M.= NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE
BY

MICROFILMED

6750
6940
6930
6920
6910

+1.00%
-0.920%
-1.877%
-0.167%
+2.214%

200' V.C.
N.P.S.D. 480

200' V.C.
N.P.S.D. 390

300' V.C.

200' V.C.
N.P.S.D. 460

65 70 75 80 85 90 95

PLATE 1-PLAN-PROFILE B.P.R. STANDARD
EUGENE DIETZGEN CO. Chicago-New York

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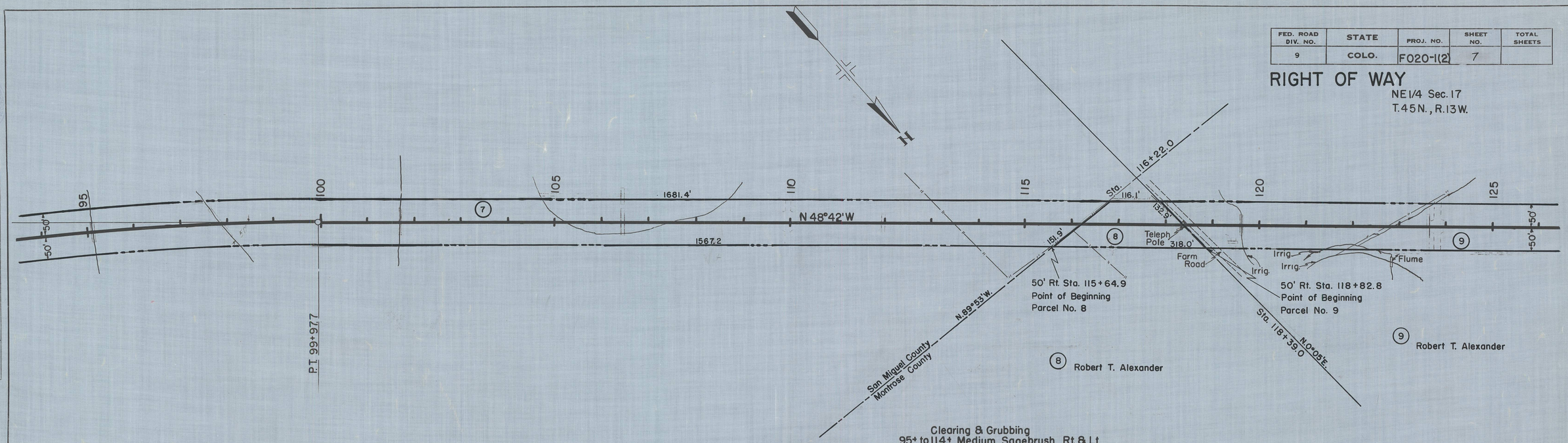
FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	7	

RIGHT OF WAY

NE1/4 Sec. 17
T.45N., R.13W.



Clearing & Grubbing
95+ to 114+ Medium Sagebrush Rt. & Lt.

SW1/4 Sec. 16
T.45N., R.13W.

NW1/4 Sec. 16
T.45N., R.13W.

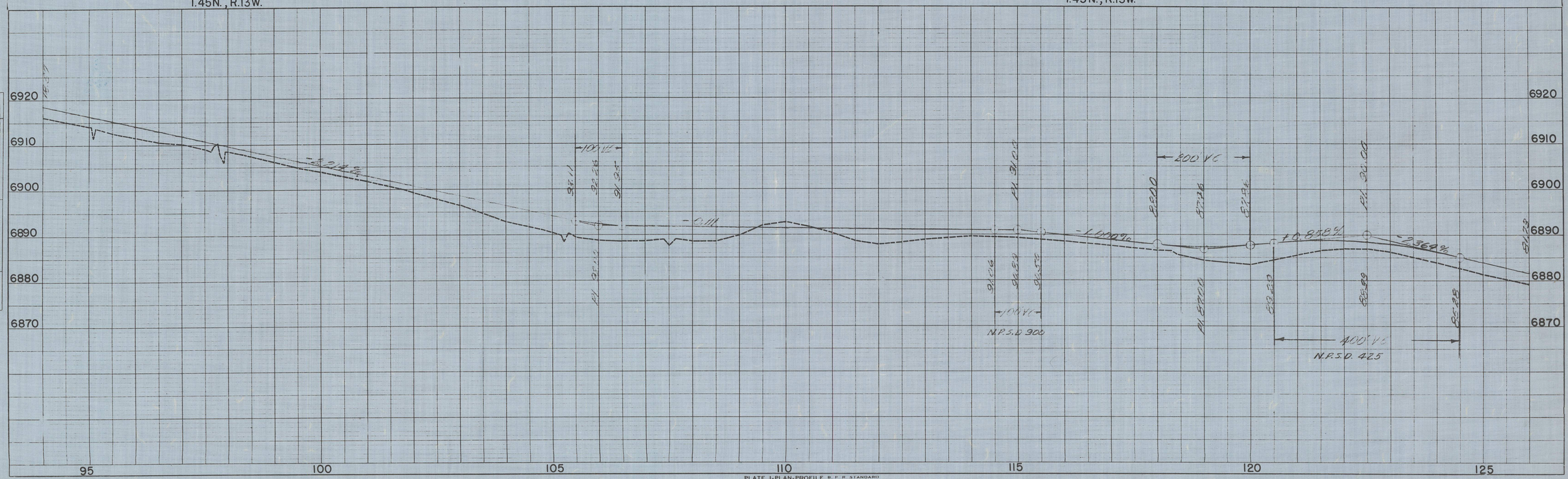


PLATE I-PLAN-PROFILE B. P. R. STANDARD

EUGENE DIETZGEN CO., Chicago-New York

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

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M.'s NOTED, STRUCTURE NOTATN'S CH'KD, NO., BY, DATE

MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	8	

RIGHT OF WAY

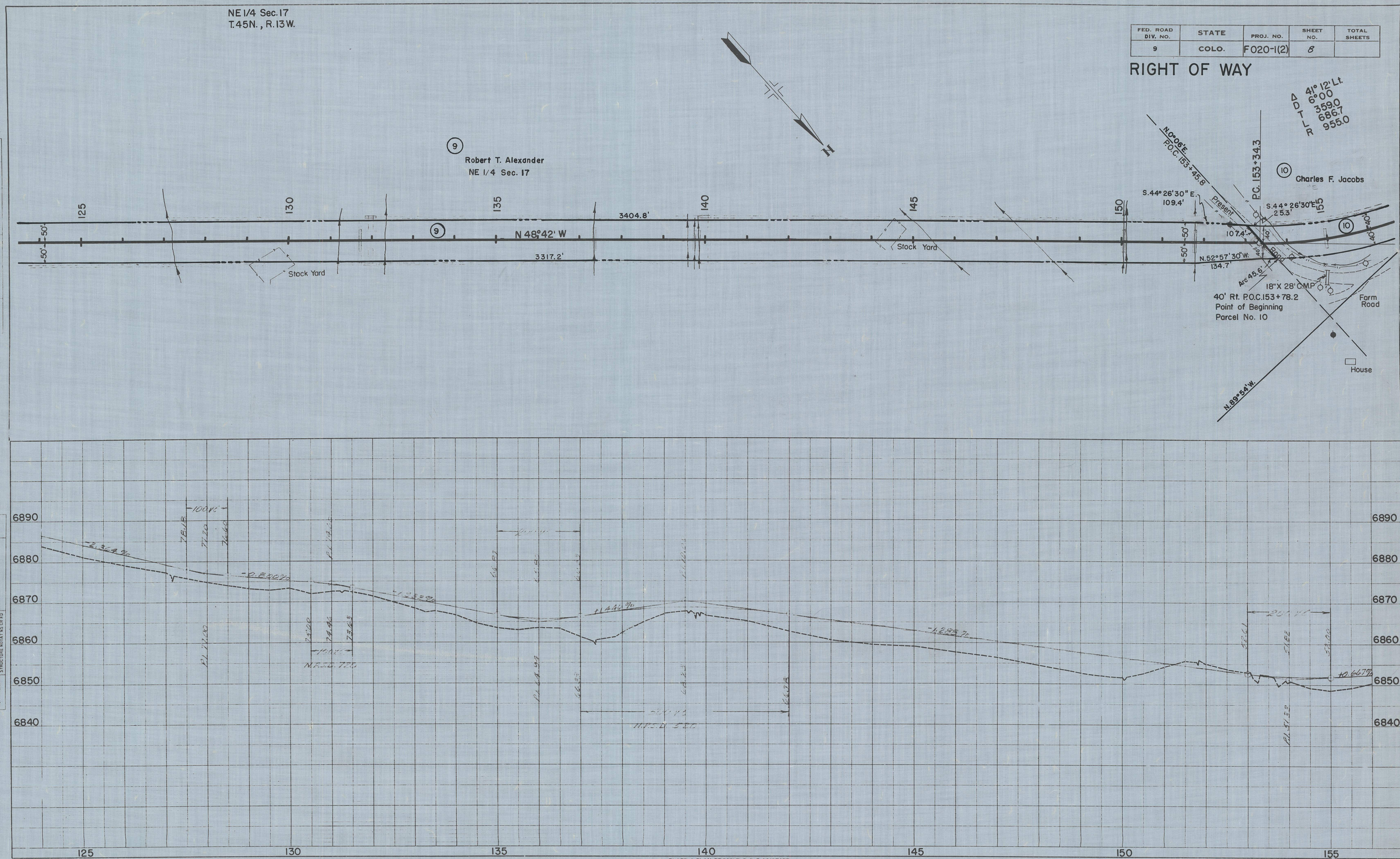

PLATE 1-PLAN-PROFILE B. P. R. STANDARD

EUGENE DIETZGEN CO. Chicago New York

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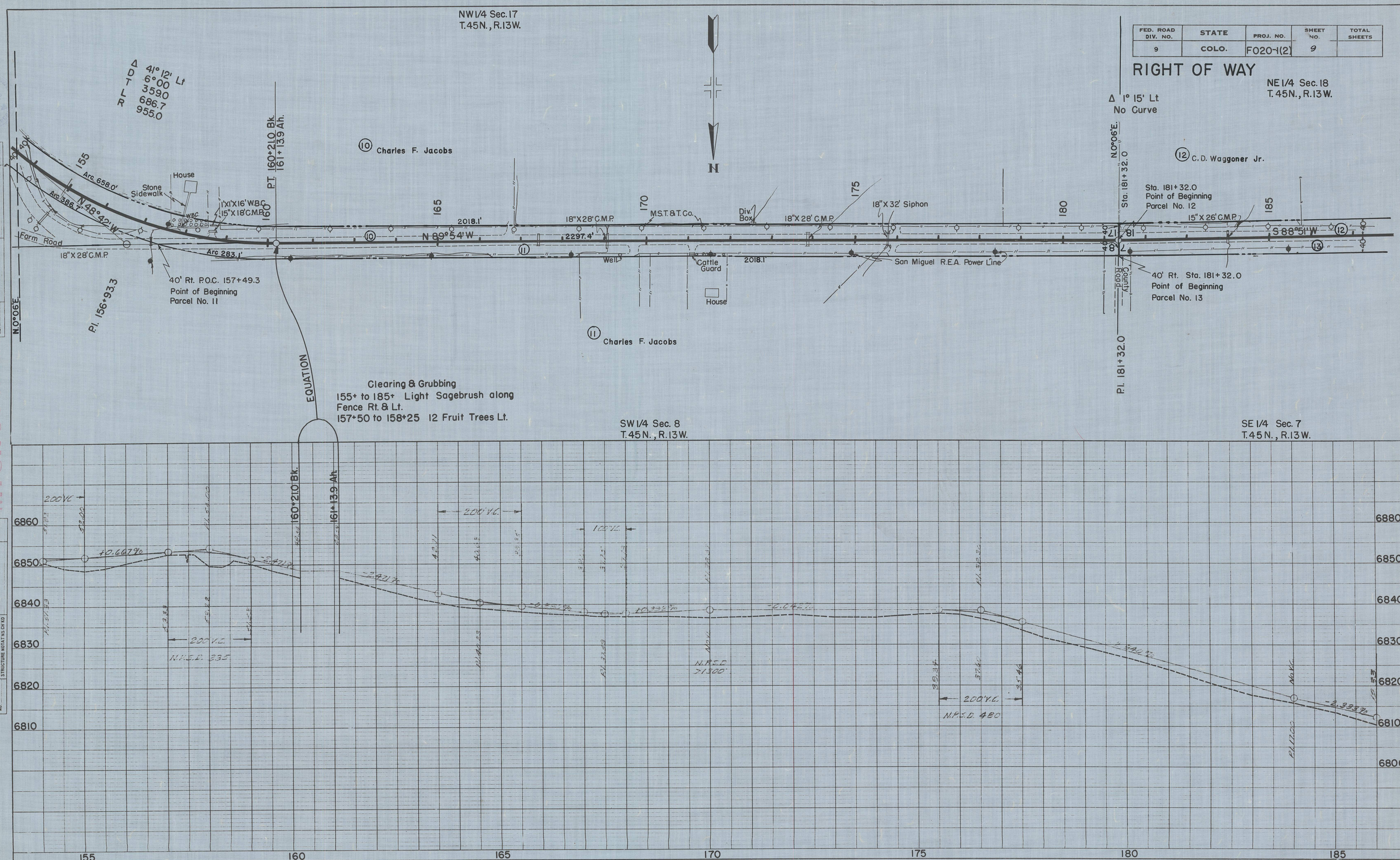
Printed in U.S.A. On IMPERIAL Tracing Cloth

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

PROFILE			
NOTE BOOK	SURVEYED	PLOTTED	GRADES CHECKED	B.M. NOTED	STRUCTURE NOTATNS CH KD
NO	BY	DATE	

MICROFILMED



FED. ROAD DIV. NO. 9
STATE COLO.
PROJ. NO. F020-1(2)
SHEET NO. 9
TOTAL SHEETS
RIGHT OF WAY
NW 1/4 Sec. 17
T. 45 N., R. 13 W.
NE 1/4 Sec. 18
T. 45 N., R. 13 W.
SW 1/4 Sec. 8
T. 45 N., R. 13 W.
SE 1/4 Sec. 7
T. 45 N., R. 13 W.
Δ 41° 12' Lt
D 6° 00
T 359.0
L 686.7
R 955.0
Δ 1° 15' Lt
No Curve
N 0°06'E.
P.T. 160+21.0 Bk.
161+13.9 Ah.
P.I. 156+93.3
P.I. 181+32.0
Sta. 181+32.0
Point of Beginning
Parcel No. 12
Sta. 181+32.0
Point of Beginning
Parcel No. 13
40' Rt. P.O.C. 157+49.3
Point of Beginning
Parcel No. 11
Arc 658.0'
Arc 386.7'
Arc 283.1'
N 48° 42' W
N 89° 54' W
S 88° 51' W
Farm Road
Stone Sidewalk
House
1'x1'x16' W.B.C.
15"x18' C.M.P.
18"x28' C.M.P.
2018.1'
2297.4'
M.S.T. & T. Co.
Div. Box
18"x32' Siphon
15"x26' C.M.P.
Well
Cattle Guard
San Miguel R.E.A. Power Line
County Road
Charles F. Jacobs
Clearing & Grubbing
155+ to 185+ Light Sagebrush along
Fence Rt. & Lt.
157+50 to 158+25 12 Fruit Trees Lt.
EQUATION
160+21.0 Bk.
161+13.9 Ah.
200' V.C.
100' V.C.
N.P.S.D. 335
N.P.S.D. >1300'
N.P.S.D. 480
6860
6850
6840
6830
6820
6810
6880
6800
155
160
165
170
175
180
185
PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO. Chicago-New York
Printed in U.S.A. On IMPERIAL Tracing Cloth

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	10	

RIGHT OF WAY

NE 1/4 Sec. 18
T. 45 N., R. 13 W.

NW 1/4 Sec. 18
T. 45 N., R. 13 W.

(12) C. D. Waggoner

Corral

(14) W. W. Williams

House

1576

24" X 26' C.M.P.

1355.0'

1355.0'

M.S.T. & T. Co.

S. 0° 06' W.

Sta. 194+87.0
Point of Beginning
Parcel No. 14

1247.0'

1246.6'

2602.0'

2602.5'

S 88° 51' W

S 89° 54' W

San Miguel R.E.A. Power Line

18" X 26' C.M.P.

24" X 30' Siphon

2'X1'X14' W.B.C.

15" X 18' C.M.P.

15" X 18' C.M.P.

24" X 28' C.M.P.
38.4'

38.0'

1'X2'X14' W.B.C.

1'X2'X12' W.B.C.

P.I. 207+340

Sta. 207+72.0
Point of Beginning
Parcel No. 15

Δ 1° 03' Rt.
No Curve

N. 0° 06' E.

(13) Clarence H. Gibson

185 190 195 200 205 210 215

Clearing & Grubbing
185+ to 215+ Light Sage along Fence Lt. & Rt.

SE 1/4 Sec. 7
T. 45 N., R. 13 W.

SW 1/4 Sec. 7
T. 45 N., R. 13 W.

6850 6840 6830 6820 6810 6800

-3.33%

+1.31 5%

+5.09%

-1.00%

-2.85 9%

200 V.C.

300 V.C.

500 V.C.
NPSD - 345'

200 V.C.
NPSD 480'

100 V.C.

PI 6800

PI 6810

PI 6820

PI 6830

PI 6840

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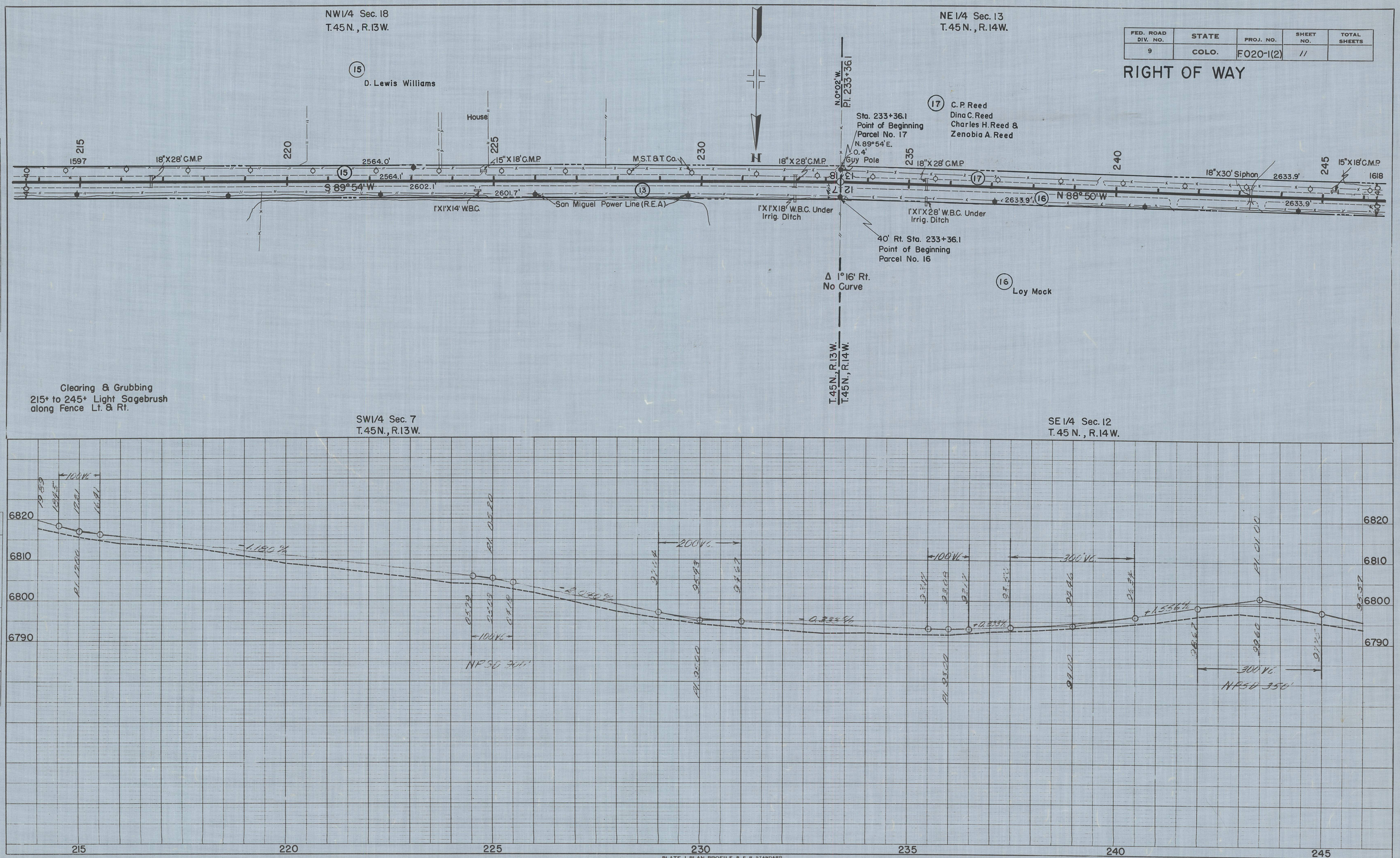
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BRIDGES ADDED, NO., STRUCTURE NOTATIONS CH'KD, BY, DATE

MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	11	

RIGHT OF WAY



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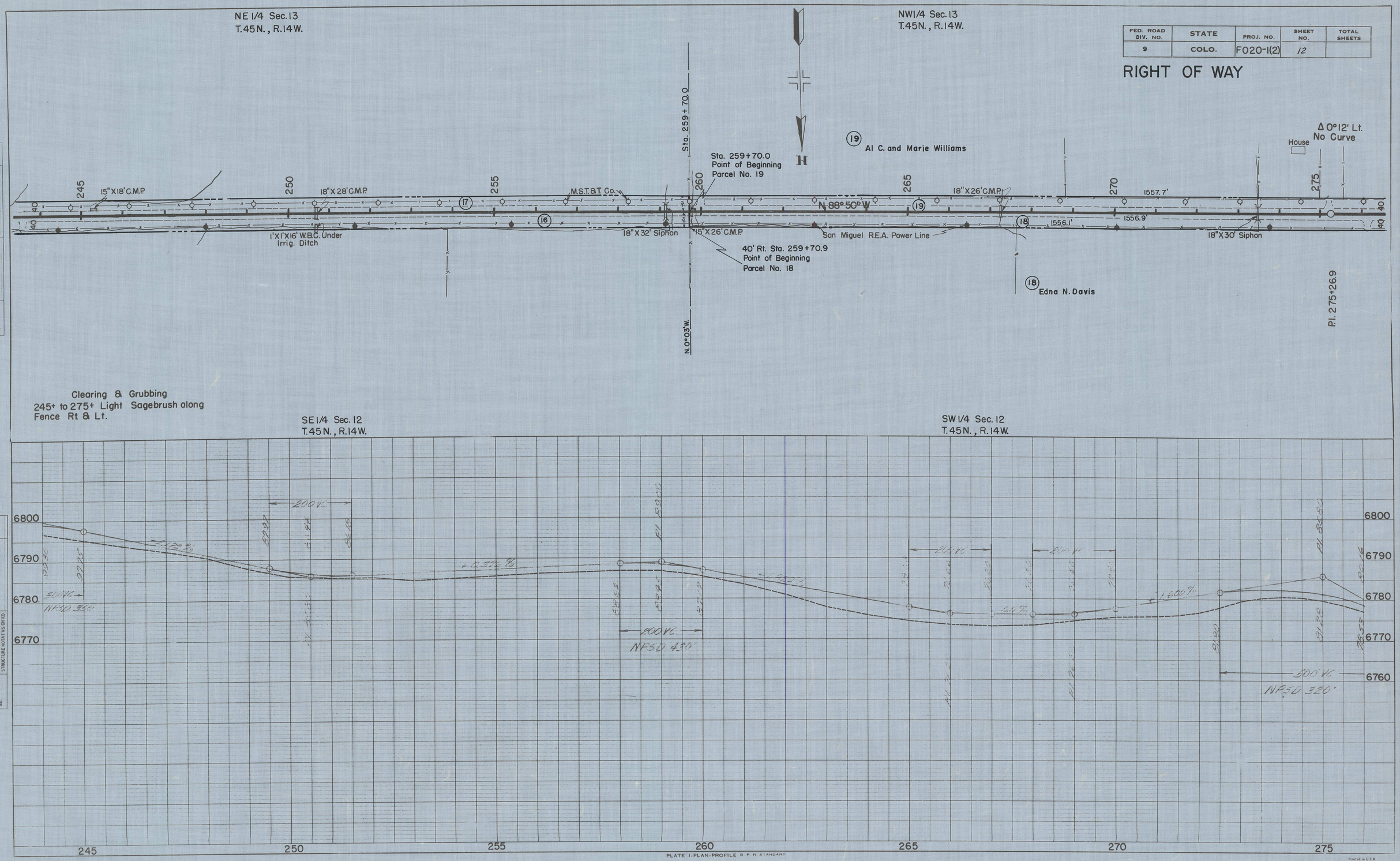
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M.'s NOTED, STRUCTURE NOTAT'NS CH'KD, NOTE BOOK, NO., BY, DATE

MICROFILMED



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

PROFILE NOTE BOOK NO. SURVEYED PLOTTED GRADES CHECKED B.M.'s NOTED STRUCTURE NOTATNS CH'KD BY DATE

MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	13	

RIGHT OF WAY

NW1/4 Sec. 13
T. 45 N., R. 14 W.

NE1/4 Sec. 14
T. 45 N., R. 14 W.

Δ 0°12' Lt.
No Curve

House

Pl. 275+26.9

965.1'

18"X26' C.M.P.

M.S.T. & T. Co.

N89°02'W

San Miguel R.E.A. Power Line

Pl. 284+92.0

Sta. 286+32.0

Sta. 286+32.0
Point of Beginning
Parcel No. 21

(21) Edna N. Davis

Δ 0°13' Lt.
No Curve

4'X12'X44.5' C.B.C.

N88°54'W

139.2'

165.3'

164.5'

140.0'

140.8'

163.7'

Δ 0°08' Rt.
No Curve

40' Rt. Sta. 286+32.9
Point of Beginning
Parcel No. 20

Pl. 287+96.5

N. 0°03' W.

Pl. 292+44.5

448.0'

448.1'

N89°07'W

Δ 0°05' Rt.
No Curve

(20) Mace E. Davis &
Faye P. Davis

24"X26' C.M.P.

15"X26' C.M.P.

711.5'

712.2'

1'X2'X33' Wooden Flume

Barn

.5'X5'X10' W.B.C.

House

2'X2'X17' W.B.C.

15"X24' C.M.P.

N. 0°03' W.

Sta. 299+56.0

40' Rt. Sta. 299+56.7
Point of Beginning
Parcel No. 22

(22) Edna N. Davis

15"X18' C.M.P.

2095.5'

2096.2'

N89°02'W

Shed

Farm Road

Shed

House

Water Line

1 1/2"

1'X2'X11' Div. Box

County Road

Clearing & Grubbing
275+ to 293+ Medium Sagebrush Lt. & Rt.
293+305+ Light Sagebrush along Fence Rt. & Lt.

SW1/4 Sec. 12
T. 45 N., R. 14 W.

SE1/4 Sec. 11
T. 45 N., R. 14 W.

6780
6770
6760
6750
6740
6730
6720
6710
6690
6700
6680
6670
6660
6710
6700
6690
6740
6730
6720
6710

275 280 285 290 295 300 305

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PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/T. OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CH'KD
NOTE BOOK
NO.
BY
DATE

MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	14	

RIGHT OF WAY

NE 1/4 Sec. 14
T. 45 N., R. 14 W.

NW 1/4 Sec. 14
T. 45 N., R. 14 W.

Δ 0°08' Lt.
No Curve

Sta. 313+40.7
Point of Beginning
Parcel No. 23

1' X 5' X 17' Wooden Flume

1' X 1' X 8' Wooden Flume

S. 89°02' E.
0.7'

Sta. 313+40.7

305 310 315 320 325 330 335

N 89°02' W

1384.7'
1384.0'

18" X 26' C.M.P.

18" X 26' C.M.P.

N. 89°10' W.
0.7'

18" X 26' C.M.P.

40' Rt. Sta. 313+41.3
Point of Beginning
Parcel No. 24

P.I. 313+40.7

N. 0°03' W.

(23) Fred W. and Leona Margaret Stokes

1702.4'

M.S.T. & T. Co.

1981.7'

N 89°10' W

15" X 18' C.M.P.

1701.8'

San Miguel R.E.A. Power Line

(24) Floyd and Irene B. Kinion

House

Reservoir

18" X 26' C.M.P.

House

Arc 283.1

18" X 28' Siphon

P.C. 330+43.1

Δ 89°15' Rt.
D 6°00'
R 942.6
T 1487.5
L 955.0

Clearing & Grubbing
305+ to 332+ Light Sagebrush along
Fence Rt & Lt.

SE 1/4 Sec. 11
T. 45 N., R. 14 W.

SW 1/4 Sec. 11
T. 45 N., R. 14 W.

6760
6750
6740
6730
6720

305 310 315 320 325 330 335

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PROFILE: SURVEYED, PLOTTED, CALCS. CHECKED, B.M.'s NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., DATE, BY

MICROFILM

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	15	

RIGHT OF WAY

P.I. 339+85.7

N 0°05' E

N 89°10 W

40' Lt. P.O.C. 342+59.0
Point of Beginning
Parcel No. 25

E 1/2 Sec. 10
T. 45 N., R. 14 W.

(25) Benton Blackburn
and Bertha Blackburn

(24) Floyd Kinion and
Irene B. Kinion

Arc 983.7'

Arc 1425.3'

Arc 283.1'

Δ 89°15' Rt.
D 6°00
R 954.6
T 1487.5
L 955.0

P.T. 345+30.6

P.C. 330+43.1

18"X28' Siphon

San Miguel R.E.A. Power Line

M.S.T. & T. Co.

18"X26' C.M.P.

15"X18' C.M.P.

1'X1'X14' W.B.C.

House

3063.4'

3343.2'

3425.2'

3983.8'

1'X1'X16' W.B.C.

U.S.G.S. B.M. 145

County Road

1'X1'X13' Wooden Div. Box

18"X26' C.M.P.

Clearing & Grubbing
342+ to 365+ Medium Sagebrush
along Fence Rt. & Lt.

W 1/2 Sec. 11
T. 45 N., R. 14 W.

200' V.C.
N.P.S.D. 330

100' V.C.
N.P.S.D. 620

150' V.C.

N.P.S.D. 1300

N.P.S.D. 1300

6630
6620
6610
6600
6590
6580
6570

335 340 345 350 355 360 365

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PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M.'s NOTED, STRUCTURAL DATA NOTED, NOTE BOOK, NO., BY, DATE

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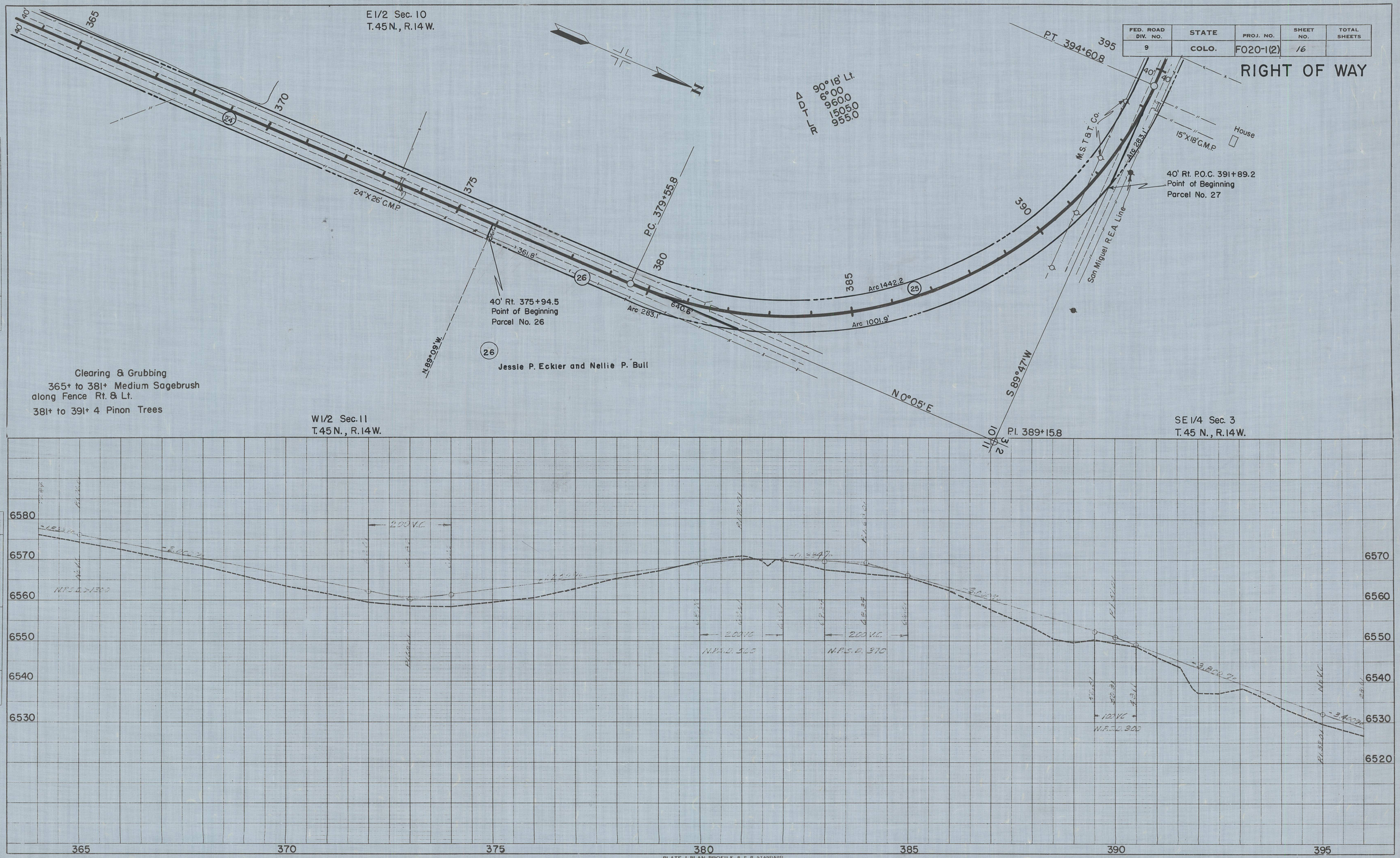

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PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. + NOTED, STRUCTURE NOTAT NS CH KO, NOTE BOOK, NO., BY, DATE

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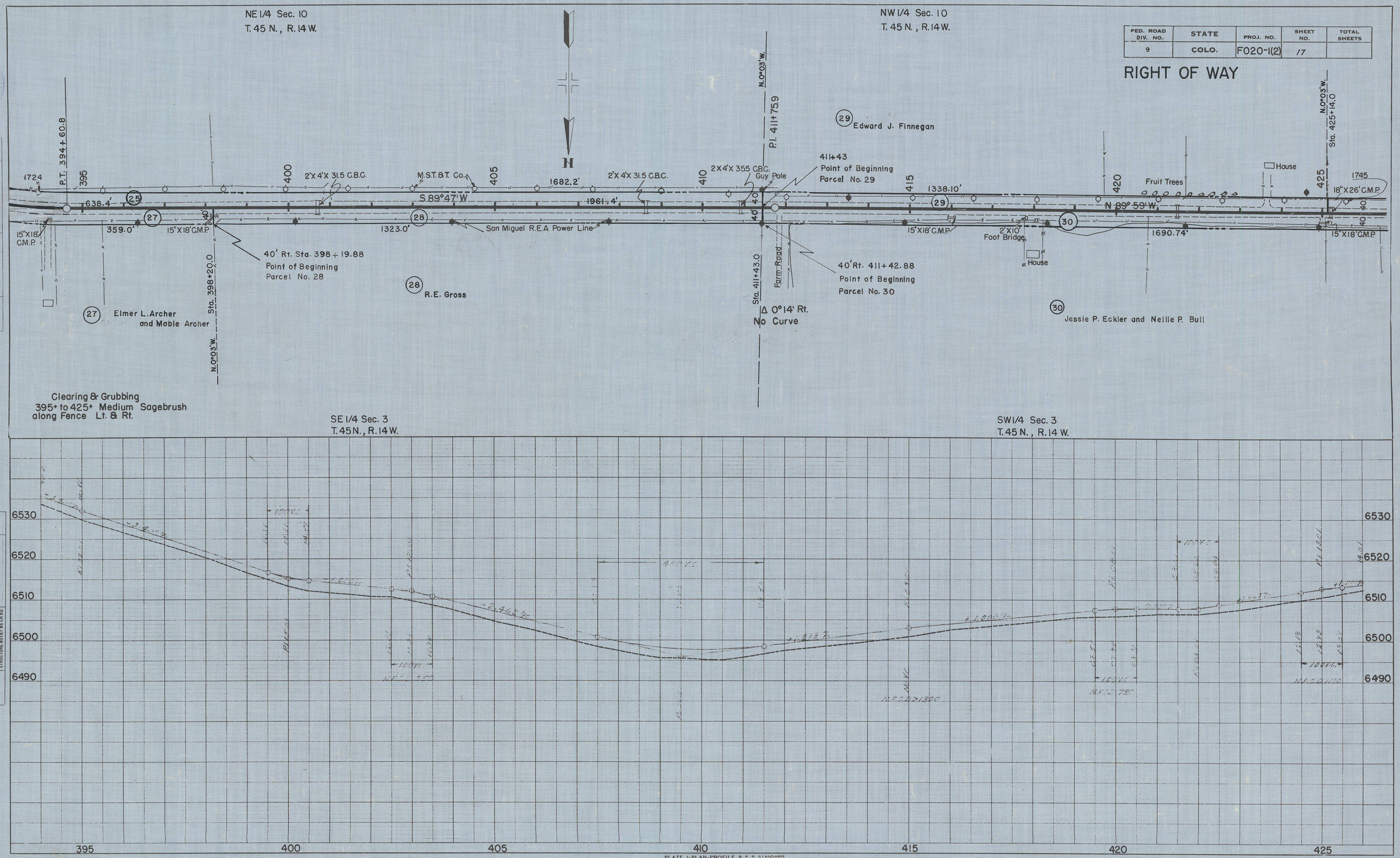

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PROFILE NOTE BOOK NO. — SURVEYED, PLOTTED, GRADES CHECKED, B.M.'s NOTED, STRUCTURE NOTAT'NS CH'KD — BY — DATE

MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	18	

NW 1/4 Sec. 10
T. 45 N., R. 14 W.

NE 1/4 Sec. 9
T. 45 N., R. 14 W.

REDLANDS ORCHARD TRACT NO. 1

RIGHT OF WAY

TOWN OF REDVALE

(31) A. B. Barrett

(32) Mrs. E. W. Bray

(33) Claude G. Barrett

(34) Lillie D. Barrett

(35) A. E. Guy

(36) Minnie Mae Foster and Clara V. Foster

(37)

Sta. 425+14.0
Point of Beginning
Parcel No. 31

Pi. 428+66.8

Sta. 438+50.0
Point of Beginning
Parcel No. 32

Sta. 441+84.5
Point of Beginning Parcel No. 34

Pi. 448+34.8

Sta. 448+34.8
Point of Beginning
Parcel No. 36

Point of Beginning
Parcel No. 33

40' Rt. Sta. 438+50.1

40' Rt. Sta. 448+34.8
Point of Beginning
Parcel No. 35

LOT 13 · LOT 14 · LOT 15 · LOT 16

LOT 12 · LOT 11 · LOT 10 · LOT 9

18"X 26' C.M.P. · 352.9' · N 89°59'W · 352.8' · 18"X 28' Siphon M.S.T.&T. Co. · Fruit Trees · 983.8' · N 89°45'W · 983.2' · 15"X18' C.M.P. · 982.6' · San Miguel R.E.A. Power Line

1"X2"X 16" W.B.C. · House · 1"X1"X4" Div. Box

15"X18' C.M.P. · 24"X28' C.M.P. · Fruit Trees · House · 15"X18' C.M.P. · 15"X26' C.M.P. 650.5' · 650.3' · 334.5' · 984.7' · 15"X12' C.M.P. · 15"X28' Siphon · 984.8' · Sign · 15"X28' Siphon · House · 1"X1"X12" W.B.C.

3'X6'X 25.5' C.B.C. · House · 2'X12' Sidewalk · 305.2' · 1"X2"X 20" W.B.C. · 1"X1"X28" Wooden Flume · Guy Pole · 2'X12' Steel Pipe · 12'X12' C.M.P. · Fruit Trees · Sidewalk · House · 1"X1"X22" W.B.C. · House · House

Δ 0° 14' Rt.
No Curve

Δ 0° 05' Rt.
No Curve

Sta. 438+50.0 · Sta. 441+84.5 · Sta. 448+34.8 · Sta. 451+42.0 · Sta. 453+23.0 · Sta. 455+32.0

County Road

Clearing & Grubbing
425+ to 451+ Medium Sagebrush
along Fence Rt. & Lt.

Clearing & Grubbing
451+ to 455+ Light Sagebrush
along Fence Rt. & Lt.

SW 1/4 Sec. 3
T. 45 N., R. 14 W.

SE 1/4 Sec. 4
T. 45 N., R. 14 W.

PLAN
SURVEYED · DRAWN · NOTE BOOK · NO. · ALIGNMENT CHECKED · RT. OF WAY CHECKED · BY · DATE

PROFILE
SURVEYED · DRAWN · GRADES CHECKED · B.M. - NOTED · STRUCTURE AND ITS STYLE · BY · DATE

+1.06% · +1.00% · -3.00% · -1.44% · +1.42% · -1.30% · -2.33%

100' V.C. · N.P.S.D. 1100
200' V.C. · N.P.S.D. 340
200' V.C.
400' V.C. · N.P.S.D. 520
N.P.S.D. 890
N.P.S.D. 1300

6510 · 6500 · 6490 · 6480

425 · 430 · 435 · 440 · 445 · 450 · 455

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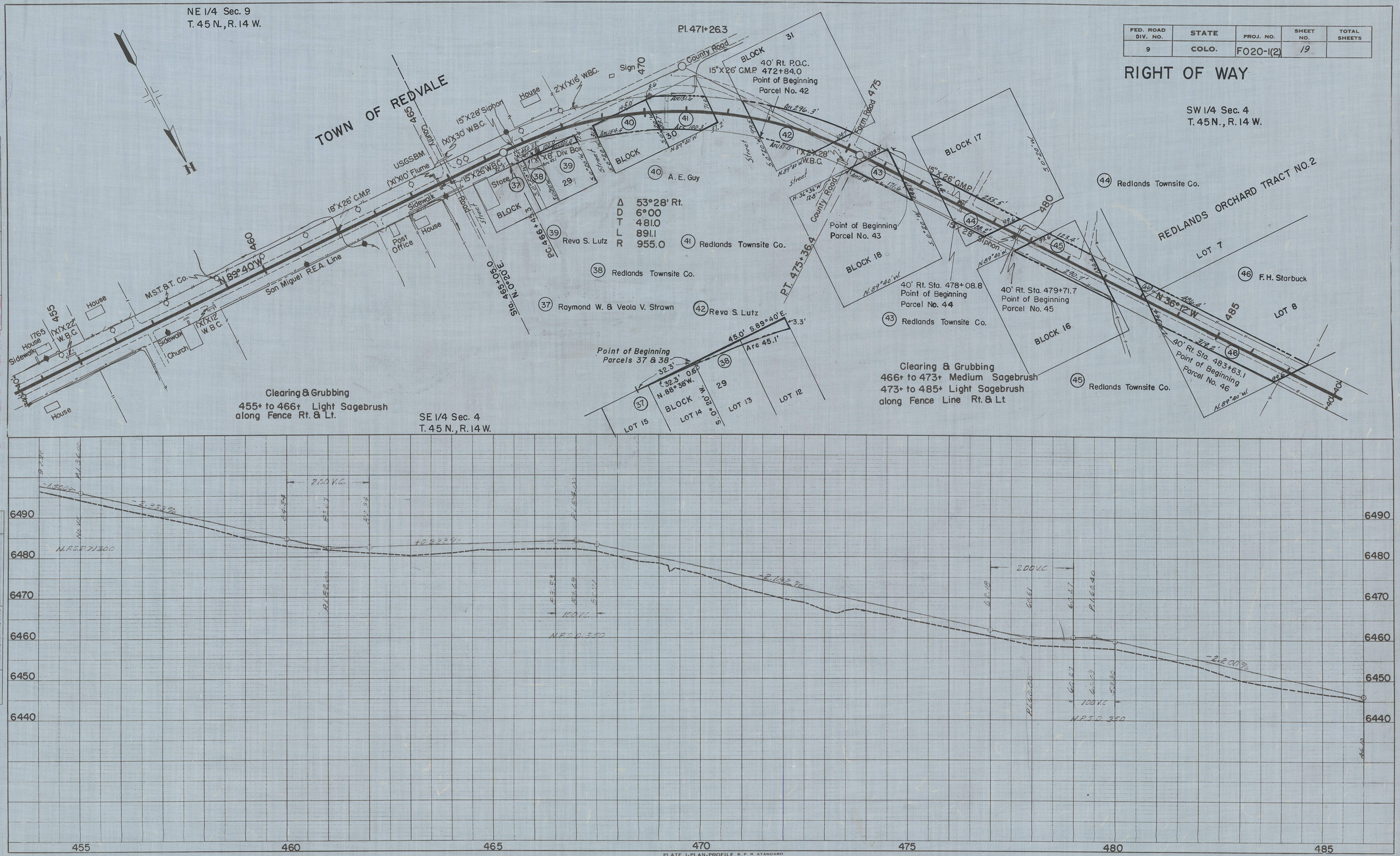
FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	19	

RIGHT OF WAY



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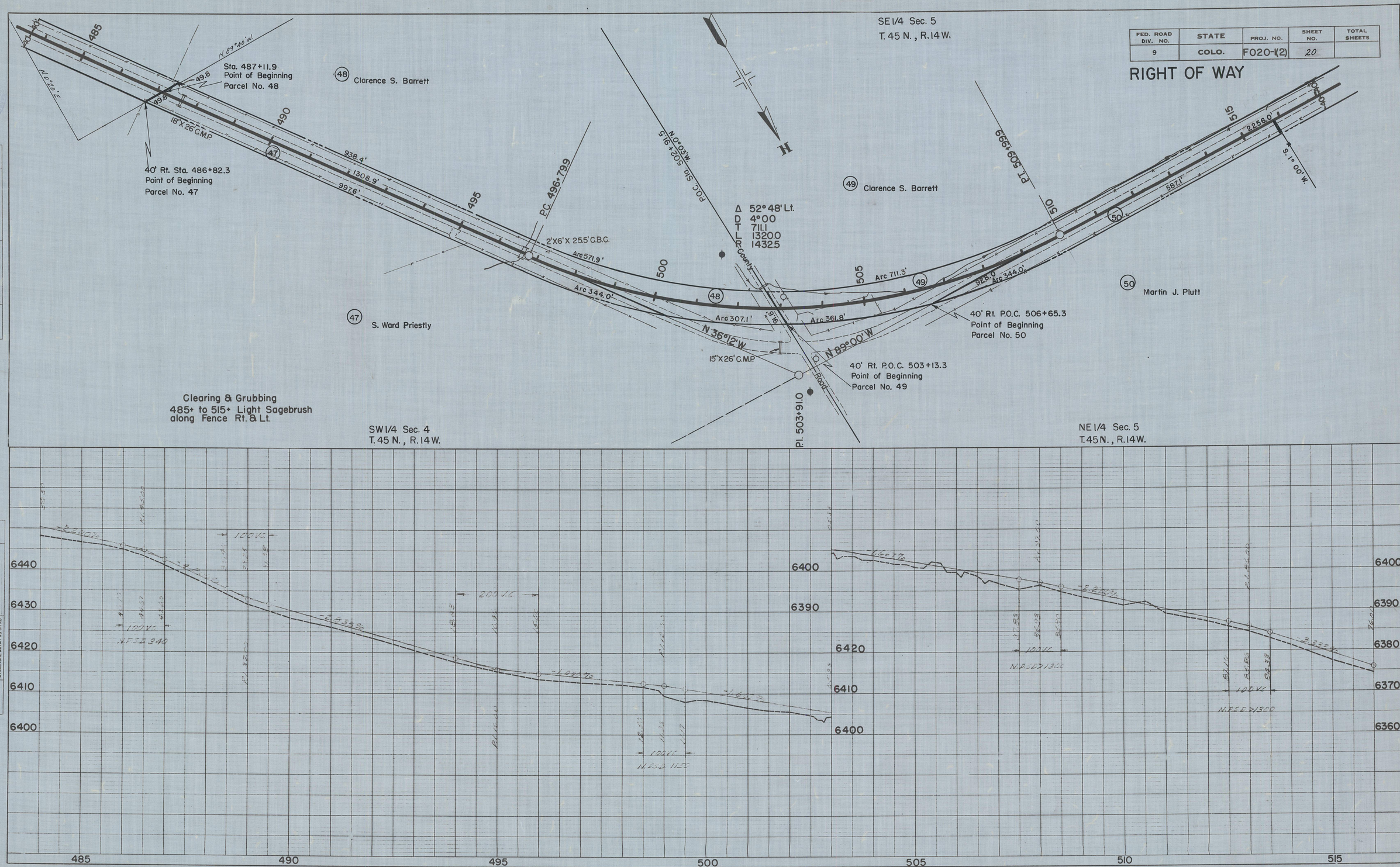

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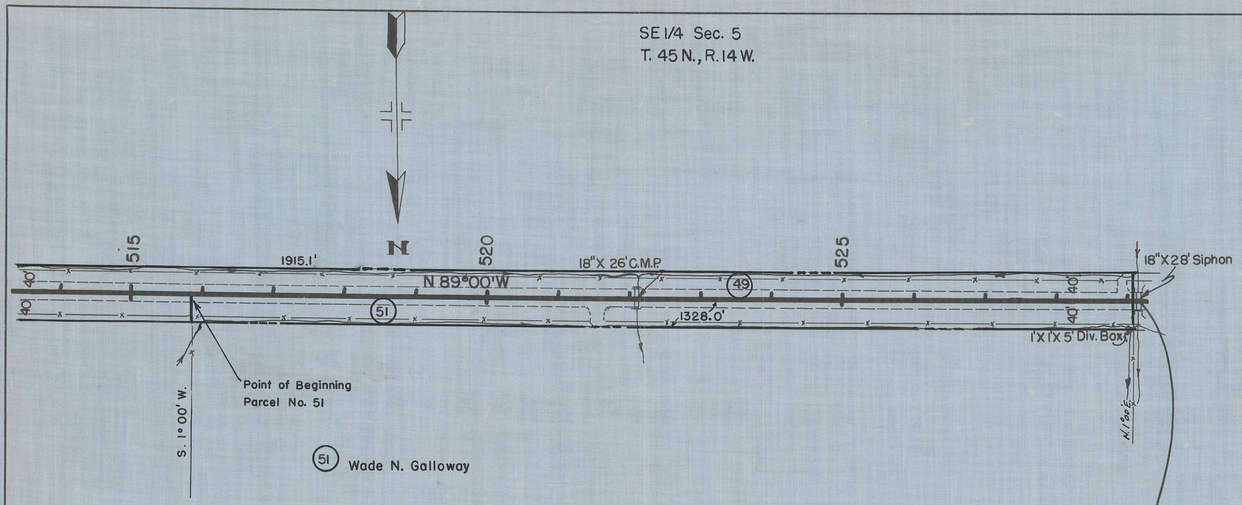
FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	21	

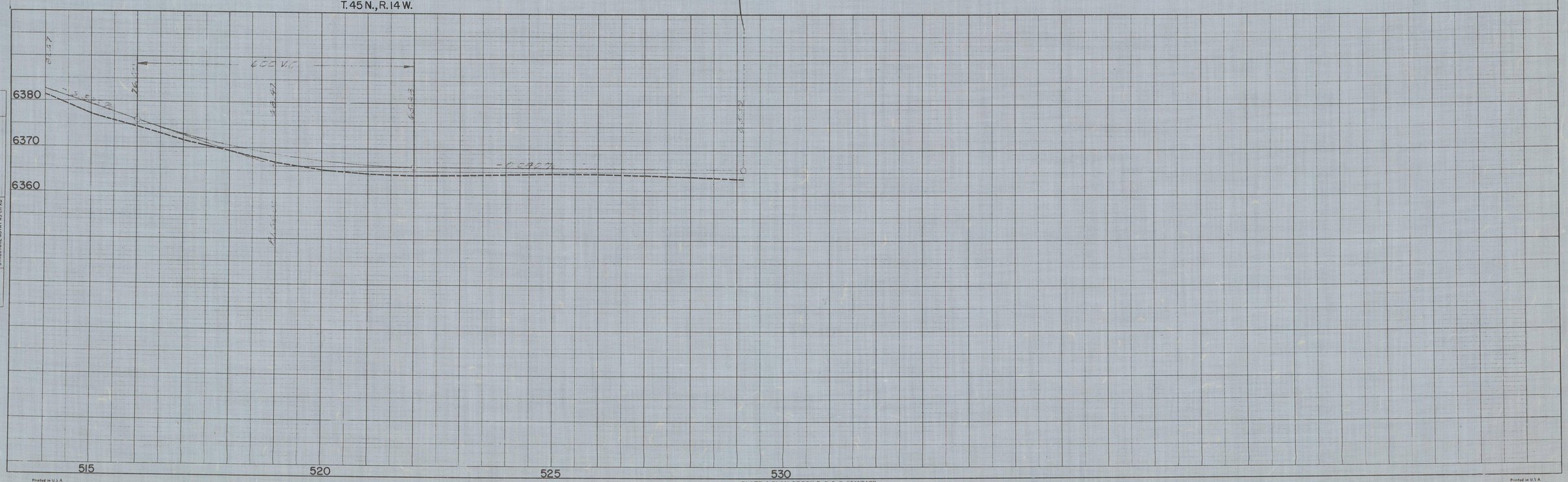
RIGHT OF WAY

SE 1/4 Sec. 5
T. 45 N., R. 14 W.



Clearing & Grubbing
515+ to 529+ Light Sagebrush
along Fence Rt. & Lt.

NE 1/4 Sec. 5
T. 45 N., R. 14 W.



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PROFILE: SURVEYED, PLOTTED, CURVES CHECKED, B.M.'s NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

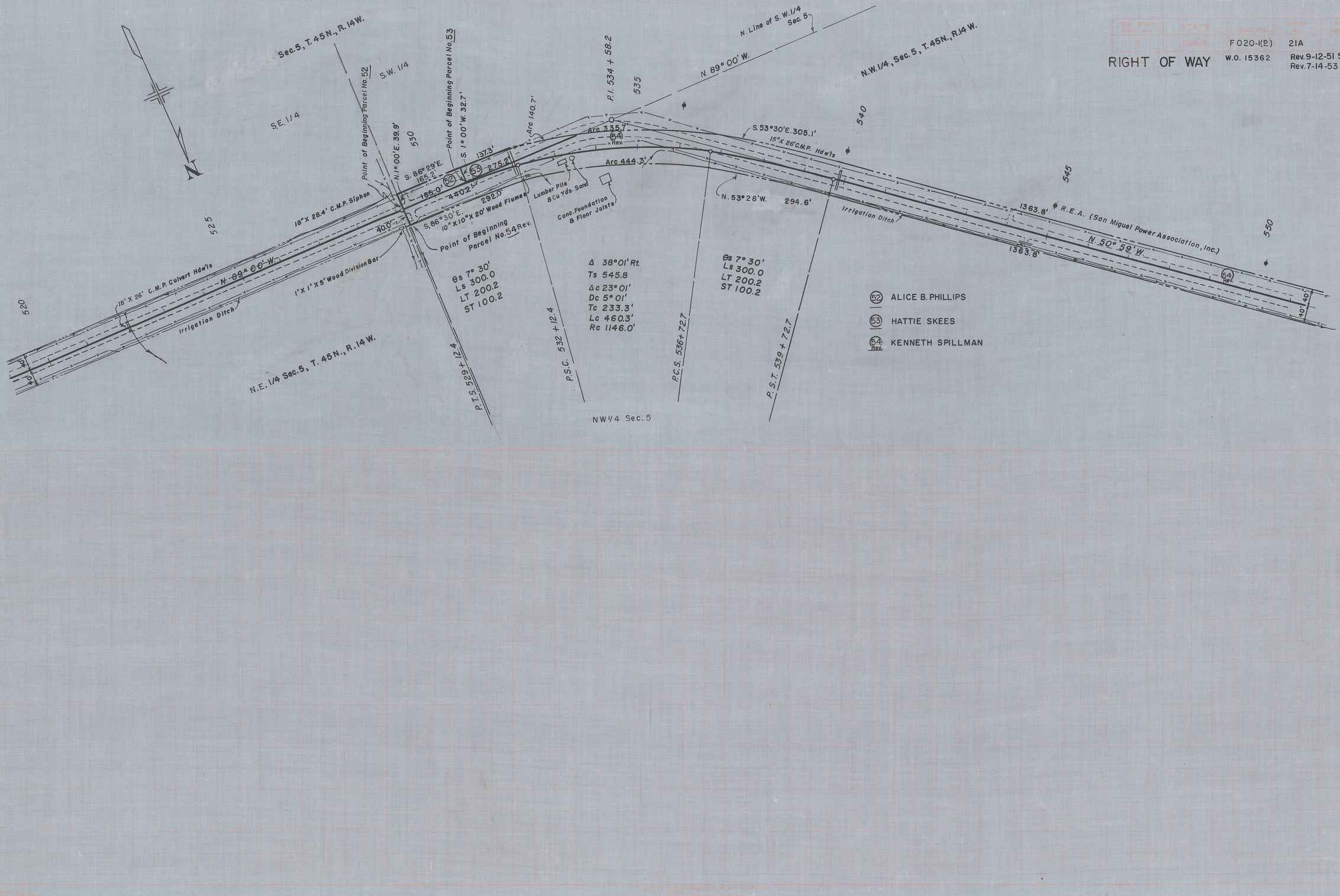
MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
9	COLO.	F 020-1(2)	21A	

RIGHT OF WAY

W.O. 15362

Rev. 9-12-51 S.W.Z.
Rev. 7-14-53 S.W.Z.



(52) ALICE B. PHILLIPS

(53) HATTIE SKEES

(54) Rev. KENNETH SPILLMAN

MICROFILMED

FED. ROAD DIST. NO.	STATE	ROUTE NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	21B	

RIGHT OF WAY W.O. 15362 Rev. 9-13-51 S.W.Z. Rev. 7-14-53 S.W.Z.

54 Rev. KENNETH SPILLMAN
55 U.S. GOVT.
56 DELETED
57 DELETED

S.W. 1/4, N.W. 1/4 Sec. 5, T. 45N., R. 14W.

N.E. 1/4, N.E. 1/4 Sec. 6 T. 45 N., R. 14 W.

55 U.S. LAND

S.E. 1/4, Sec. 31, T. 46 N., R. 14 W.

S. 0°03' E.

P.I. 561 + 69.8

18" X 52' C.M.P. Hdw'ls

24" X 26' C.M.P. Hdw'ls

571+00 End of F020-1(2) Extension.

T.45N., R.14W., N.M.P.M. / T.46N., R.14W., N.M.P.M.

Pipe & Cap Marker

Tel. Guy Pole

15" X 26' C.M.P. Hdw'ls

S. 48° 56' E. 304.0'

Arc 821.3'

Arc 946.2'

54 Rev.

Stack Yard

625.3'

N. 2° 02' W. 295.6'

N. 0° 03' W. 144.7'

℄ N. 0° 03" W.

39.8'

County Rd.

N. 43° 00' W. 295.6'

1363.8'

N. 50° 59' W.

1363.8'

40'

Δ 50° 56' Rt.
Ts 833.3'
Δ 38° 56'
Dc 4° 00'
Tc 506.4'
Lc 973.3'
Rc 1432.5'

θ 6° 00'
Ls 300.0'
LT 200.1'
ST 100.1'

P.T.S. 552+36.5

P.S.C. 556+36.5

θ 6° 00'
Ls 300.0'
LT 200.1
ST 100.1

P.C.S. 566+09.8

P.S.T. 569+09.8

N. 89° 45' W. Sta. 570+54.71 on TWP. LINE

18" X 44' C.M.P., Hdw'ls

140'

N.W. 1/4, N.W. 1/4 Sec. 5 T. 45 N., R. 14 W.

S.W. 1/4, S.W. 1/4 Sec. 32 T. 46 N., R. 14 W.

N

550 555 560 565 570 575 580

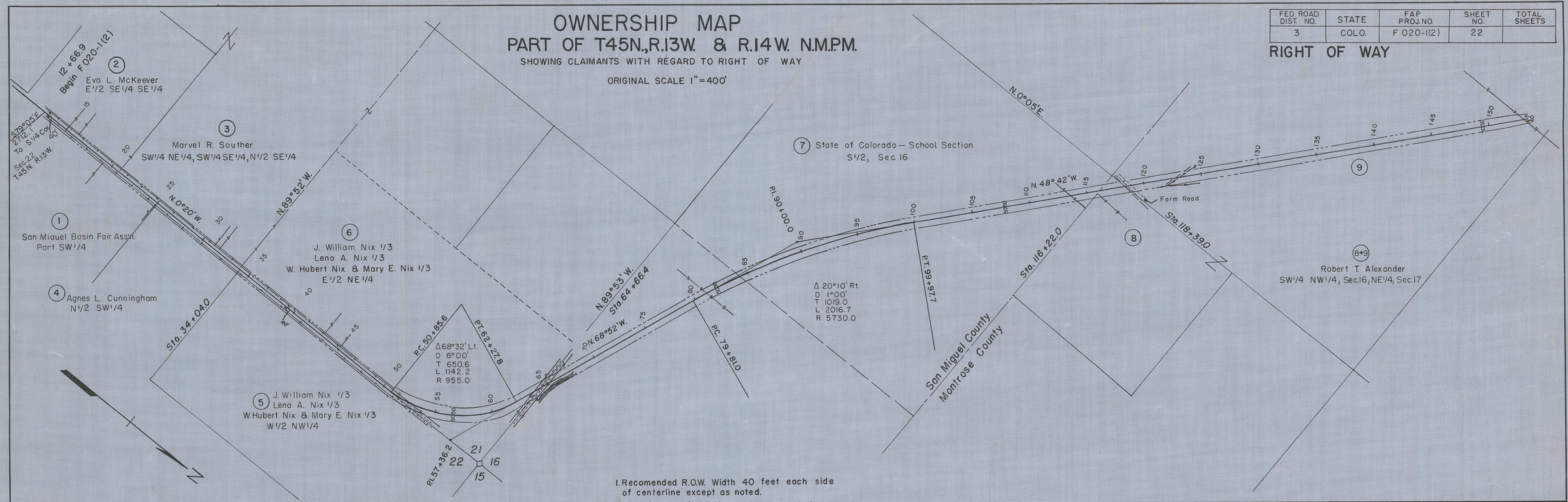
MICROFILMED

OWNERSHIP MAP
PART OF T45N.,R.13W. & R.14W. N.M.P.M.
SHOWING CLAIMANTS WITH REGARD TO RIGHT OF WAY

ORIGINAL SCALE 1"=400'

FED. ROAD DIST. NO.	STATE	FAP PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 020-1(2)	22	

RIGHT OF WAY



MICROFILMED

OWNERSHIP MAP

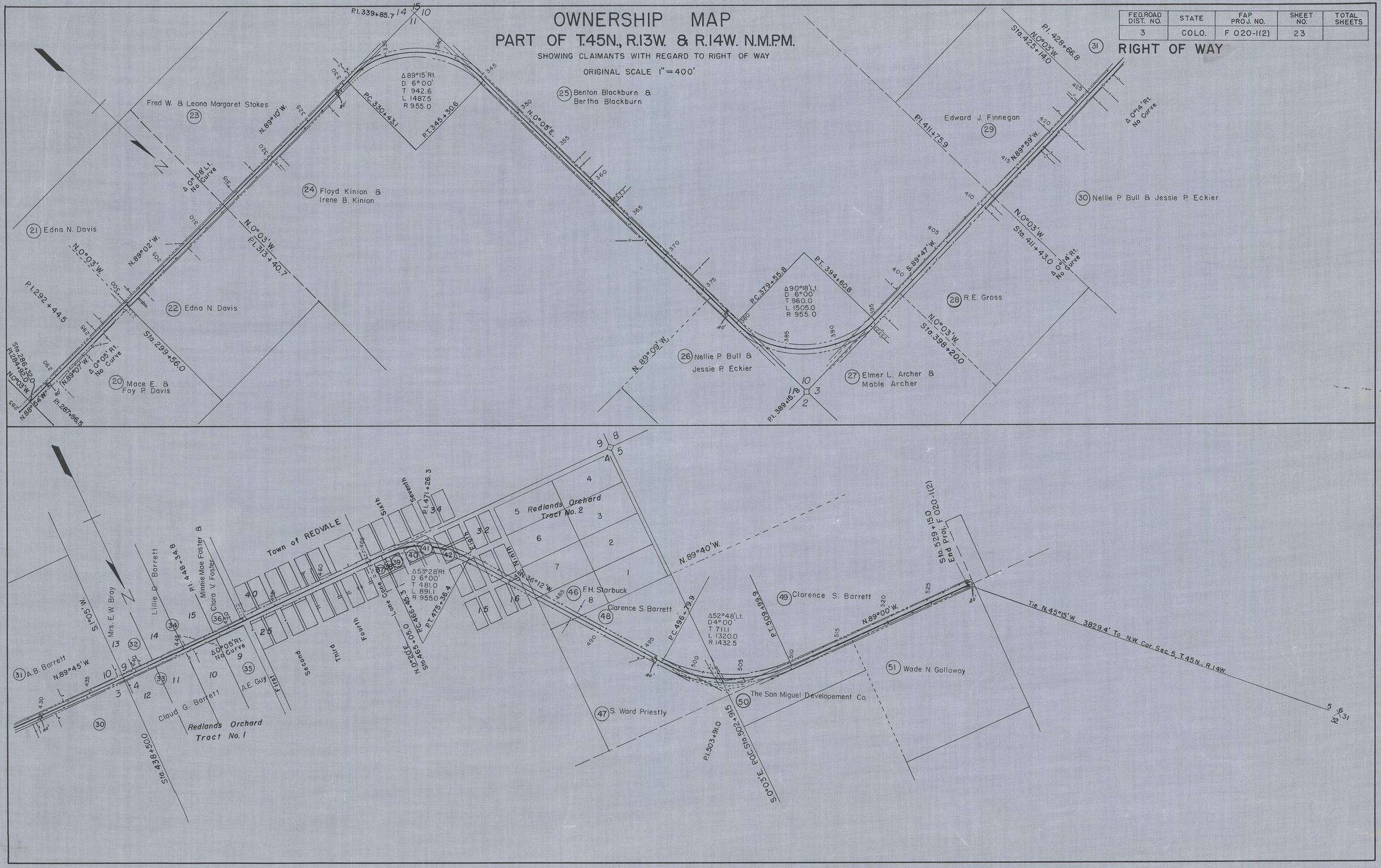
PART OF T.45N., R.13W. & R.14W. N.M.P.M.

SHOWING CLAIMANTS WITH REGARD TO RIGHT OF WAY

ORIGINAL SCALE 1" = 400'

FED. ROAD DIST. NO.	STATE	FAP PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 020-1(2)	23	

RIGHT OF WAY



MICROFILMED

FED. ROAD DIST. NO	STATE	PROJECT NO	SHEET NO.	TOTAL SHEETS
3	COLO.	F Q20-1(2)	24	

W.O. # 15362

Rev. 9-13-51 S.W.Z.
Rev. 7-14-53 S.W.Z.

RIGHT OF WAY

COLORADO STATE HIGHWAY DEPARTMENT

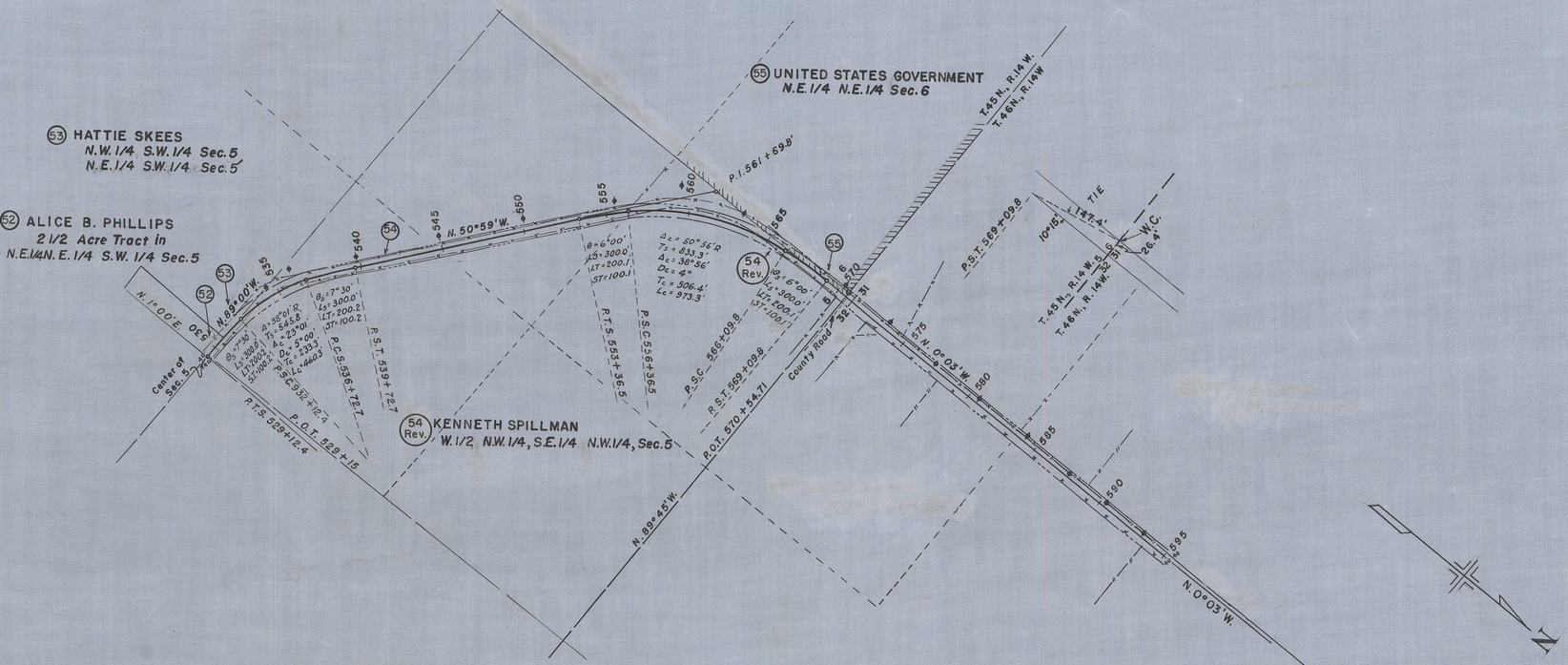
OWNERSHIP MAP

FOR

F020-1(2) Extension W.O. #15362

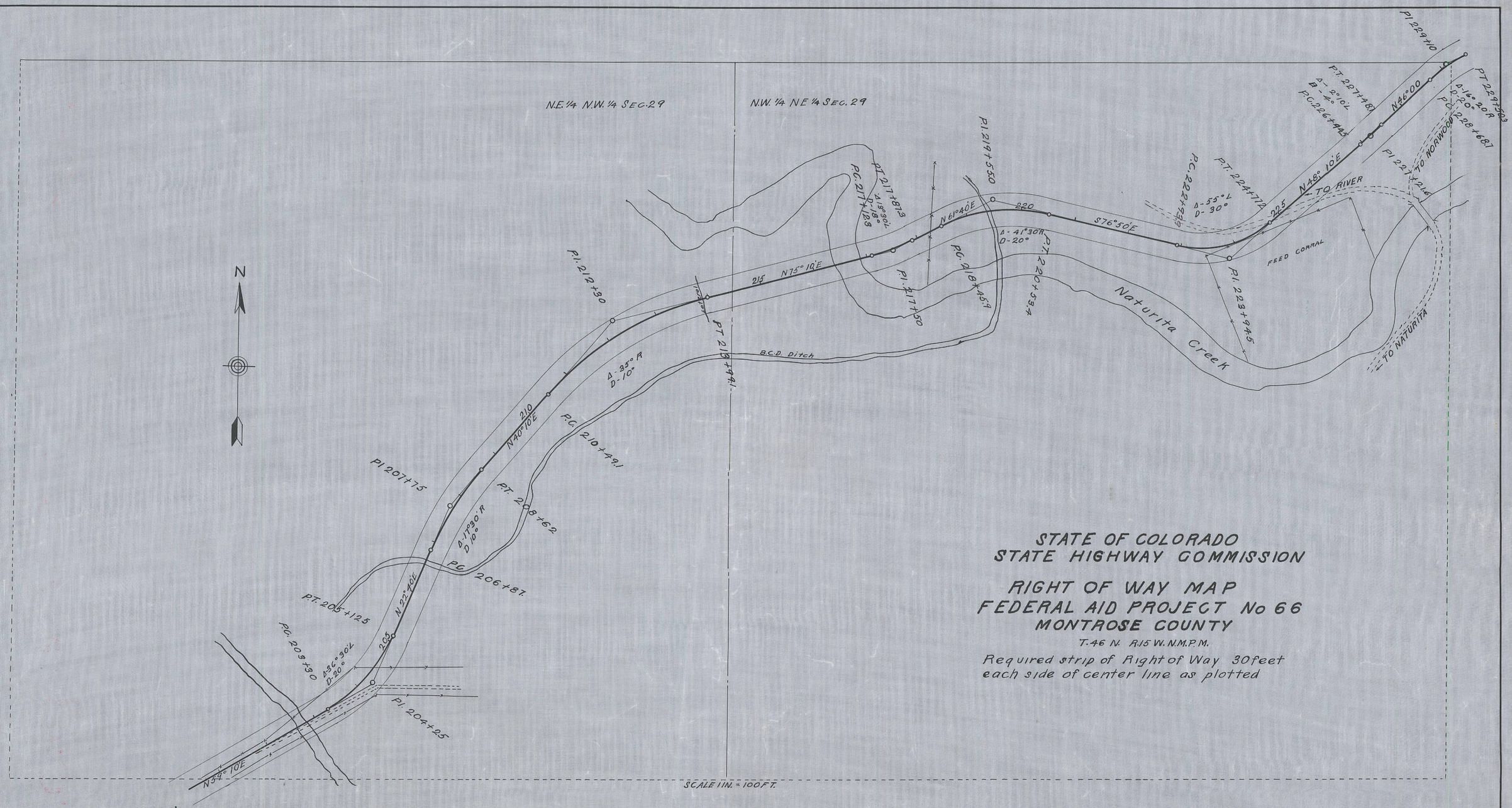
MONTROSE COUNTY

Scale - 1in = 400ft.



R.D.C.

FILMED
MICROFILMED



STATE OF COLORADO
STATE HIGHWAY COMMISSION

RIGHT OF WAY MAP
FEDERAL AID PROJECT No 66
MONTROSE COUNTY

T. 46 N. R. 15 W. N.M.P.M.

Required strip of Right of Way 30 feet each side of center line as plotted

SCALE 1 IN. = 100 FT.

MICROFILMED

03446

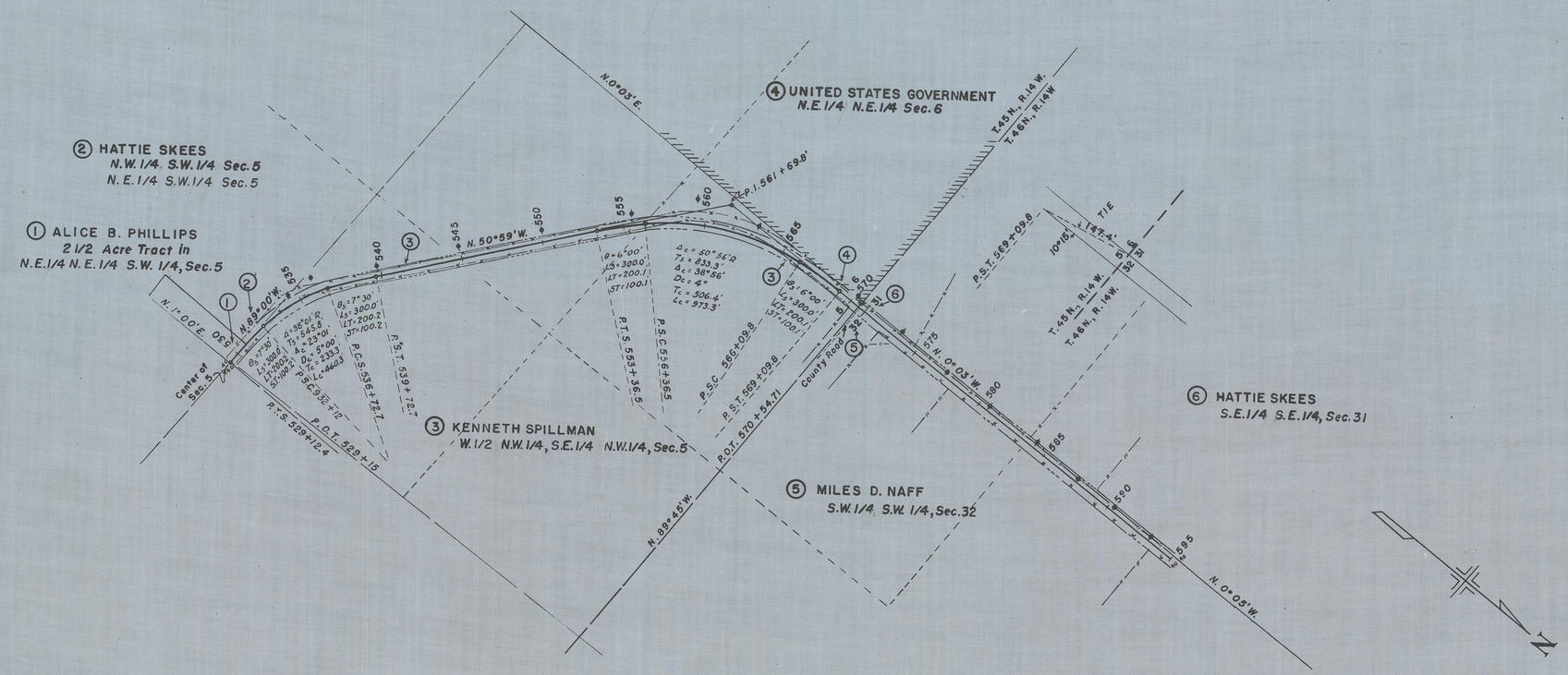
FED. ROAD DIST. NO	STATE	PROJECT NO	SHEET NO.	TOTAL SHEETS
3	COLO.	F020-1(2) EXTENSION W.O.# 15362	1	

SERIAL NO 03446

BUREAU OF LAND MANAGEMENT
Colorado State Office
Denver, Colo.
AUG 21 1951
9:30 AM
RECEIVED

COLORADO STATE HIGHWAY DEPARTMENT
RIGHT OF WAY MAP
FOR
F020-1(2)Extension W.O.#15362
MONTROSE COUNTY
Scale - 1in = 400ft.

Vacant Public Land Map
1 Sheet



CERTIFICATE

I, HAROLD J. BURBACK, Manager, Bureau of Land Management, Denver, Colorado, hereby certify that the lands shown cross-hatched hereon and traversed by the Norwood-Naturita road [Project-F020-1(2) Extension, W.O.# 15362] are the only unpatented or unappropriated lands on this route within limits of Project [F020-1(2) Extension, W.O.# 15362] and that all lands shown on this map not cross-hatched and traversed by Project [F020-1(2)-Extension, W.O.#15362] are appropriated and reserved private lands.

Harold J. Burback
Manager, Denver, Colorado.

R.D.C.

MICROFILMED

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	1	

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F020-1(2)
STATE HIGHWAY NO. 145
IN SAN MIGUEL & MONTROSE COUNTIES

INDEX OF SHEETS

SHEET NO. 1 SKETCH MAP AND TITLE PAGE
2 TABULATION OF PROPERTIES
3-20 ALIGNMENT PLAN AND PROFILE

CONVENTIONAL SIGNS

CENTER LINE — TITLE SHEET
RIGHT OF WAY
SECTION LINE
QUARTER SECTION LINE
RAILROAD
BARBED WIRE FENCE
COMBINATION FENCE
TELEPH. & TELEG. LINE
POWER LINE

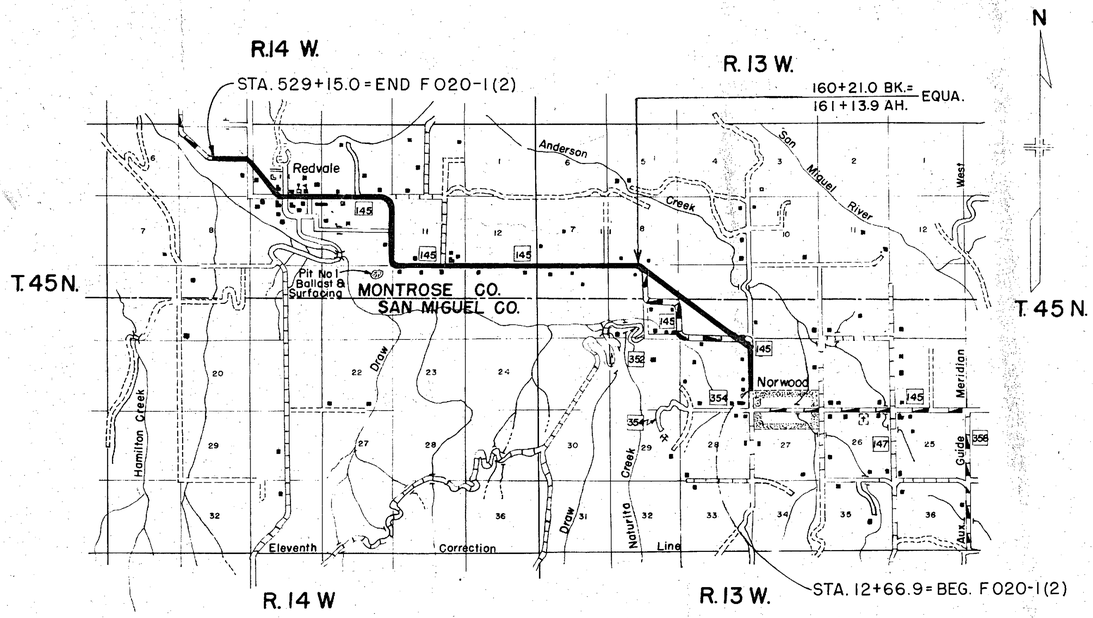
SCALES

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

GROSS LENGTH OF PROJECT } 51,555.2 FEET = 9.764 MILES
NET LENGTH OF PROJECT }

RIGHT OF WAY



0 1 2 3 4
SCALE 1" = 1 Mile

R.O.W. TABULATION OF PROPERTIES IN SAN MIGUEL & MONTROSE COUNTIES S.H. No. 145 PROJ. F 020-1 (2)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 020-1 (2)	2	

RIGHT OF WAY

PARCEL NO.	OWNER	ADDRESS	LOCATION	AREA IN ACRES			REMARKS	NO.
				TOTAL LAND IN TRACT	PARCEL	TO BE ACQUIRED		
			T.45N. R.13W.N.M.P.M					
1	San Miguel Basin Fair Assn.		SW 1/4 Sec. 22		1.128	0.282		
2	Eva L. McKeever		E 1/2 SE 1/4 SE 1/4 Sec. 21		0.753	0.188		
3	Marvel R. Souther		N 1/2 SE 1/4 Sec. 21		1.209	0.378		
4	Agnes L. Cunningham		SW 1/4 Sec. 22		0.835	0.227		
5	J. William Nix 1/3 Lena A. Nix 1/3				1.795	0.464		
	W. Hubert and Mary E. Nix 1/3		W 1/2 NW 1/4 Sec. 22					
6	J. William Nix 1/3 Lena A. Nix 1/3							
	W. Hubert and Mary E. Nix 1/3		E. 1/2 NE 1/4 Sec. 21		4.483	3.262		
7	State of Colorado School Section		S 1/2 Sec. 16		11.837	11.662	Mr. O.A. Greager is assessed with improvements on this land but does not have title. Has agreement with State.	
8	Robert T. Alexander		SW 1/4 NW 1/4 (Lot) Sec. 16		0.498	0.498		
9	Robert T. Alexander		NE 1/4 Sec. 17		8.013	7.973		
10	Charles F. Jacobs		NW 1/4 Sec. 17		2.922	0.876		
11	Charles F. Jacobs		S 1/2 SW 1/4 Sec. 8		2.024	0.303		
12	C. D. Waggoner		NE 1/4 NE 1/4 Sec. 18		1.244	0.519		
13	Clarence H. Gibson		S 1/2 Sec. 7		4.779	1.195		
14	W. W. Williams		NW 1/4 NE 1/4 Sec. 18		1.180	0.283		
15	D. Lewis Williams		N 1/2 NW 1/4 Sec. 18		2.365	0.442		
			T.45 N. R.14 W.N.M.P.M					
16	Loy Mock		S 1/2 SE 1/4, Sec. 12		2.419	0.726		
17	C.P., Dina C., Charles H. and Zenobia A. Reed		N 1/2 NE 1/4, Sec. 13		2.419	0.832		
18	Edna N. Davis		S 1/2 SW 1/4, Sec. 12		2.445	0.489		
19	Al C. and Marie Williams		N 1/2 NW 1/4, Sec. 13		2.444	0.330		
20	Mace E. and Faye P. Davis		SE 1/4 SE 1/4, Sec. 11		1.216	0.319		
21	Edna N. Davis		N 1/2 NE 1/4, Sec. 14		2.487	0.354		
22	Edna N. Davis		SW 1/4 SE 1/4, Sec. 11		1.272	0.430		
23	Fred W. and Leona Margaret Stokes		N 1/2 NW 1/4, Sec. 14		1.735	0.370		
24	Floyd and Irene B. Kinion		SW 1/4, S 1/2 NW 1/4 Sec. 11		6.897	3.263		
25	Benton and Bertha Blackburn		E 1/2 Sec. 10		7.240	2.704		
26	Jessie P. Eckler and Nellie P. Bull		NW 1/4 NW 1/4, Sec. 11		0.503	0.110		
27	Elmer L. and Mable Archer		SE 1/4 SE 1/4, Sec. 3		0.501	0.458		
28	R. E. Gross		SW 1/4 SE 1/4, Sec. 3		1.215	0.365		
29	Edward J. Finnegan		NE 1/4 NW 1/4, Sec. 10		1.259	0.276		
30	Jessie P. Eckler and Nellie P. Bull		SW 1/4, Sec. 3		2.486	0.205		
31	A. B. Barrett		NW 1/4 NW 1/4, Sec. 10		1.227	0.230		
32	Mrs. E. W. Bray		In NE 1/4 NE 1/4, Sec. 9		0.307	0.061		
33	Claude G. Barrett		In SE 1/4, Sec. 4		0.904	0.249		
34	Lillie D. Barrett		In NE 1/4, Sec. 9		0.597	0.112		
35	A. E. Gay		In SE 1/4, Sec. 4		0.322	0.073		
36	Minnie Mae and Clara V. Foster		In NE 1/4, Sec. 9		0.260	0.074		
37	Raymond W. and Veola V. Strawn		In SW 1/4, Sec. 4		0.0	0.0		
38	Redlands Townsite Co. (A Corp)		In SW 1/4, Sec. 4		0.003	0.003		
39	Reva S. Lutz		In SW 1/4, Sec. 4		0.024	0.002		
40	A. E. Gay		In SW 1/4, Sec. 4		0.183	0.183		
41	Redlands Townsite Co. (A Corp)		In SW 1/4, Sec. 4		0.251	0.251		
42	Reva S. Lutz		In SW 1/4, Sec. 4		0.412	0.064		
43	Redlands Townsite Co. (A Corp)		In SW 1/4, Sec. 4		0.185	0.110		
44	Redlands Townsite Co. (A Corp)		In SW 1/4, Sec. 4		0.316	0.078		

R.O.W. TABULATION OF PROPERTIES IN SAN MIGUEL & MONTROSE COUNTIES S.H. No. 145 PROJ. FO 20-1(2)

FED. ROAD CIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	FO 20-1(2)	3	

RIGHT OF WAY

PARCEL NO.	OWNER	ADDRESS	LOCATION	AREA IN ACRES			REMARKS	NO.
				TOTAL LAND IN TRACT	PARCEL	TO BE ACQUIRED		
			T. 45 N. R. 14 W N.M.P.M.					
45	Redlands Townsite Co. (A Corp.)		In SW 1/4 Sec. 4		0.38	0.111		
46	F. H. Starbuck		In SW 1/4 Sec. 4		0.70	.137		
47	S. Ward Priestly		NW 1/4, SW 1/4, Sec. 4		1.11	.154		
48	Clarence S. Barrett		NW 1/4 SW 1/4, Sec. 4		1.78			
49	Clarence S. Barrett		N 1/2 SE 1/4, Sec. 5		2.05	1.115		
50	Martin J. Plutt		NE 1/4 NE 1/4, Sec. 5					
51	Wade N. Galloway		SW 1/4 NE 1/4, Sec. 5		1.41			

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F0201(2)	4	

RIGHT OF WAY

SE1/4 Sec.21
T.45N. R.13W.

N

(2) Eva L. Mc Keever

(3) Marvel R. Souther

(1) San Miguel Basin Fair Ass'n.

(4) Agnes L. Cunningham

P.I. 9+37.1

Sta. 12+66.9
Point of Beginning
Parcel No. 2

Sta. 20+87.0
Point of Beginning
Parcel No. 3

Point of Beginning
Parcel No. 1
40' Rt. Sta. 12+66.9

40' Rt. Sta. 24+94.7
Point of Beginning
Parcel No. 4

Sta. 34+04

24"X24' C.M.P.
18"X26' C.M.P.
15"X18' C.M.P.
15"X 18' C.M.P.
15"X 18' C.M.P.
15"X 18' C.M.P.
15"X 18' C.M.P.
15"X 18' C.M.P.
15"X28.6' Siphon
15"X447 Siphon

5 Power Poles
County Shop
Double Gate
Walk Gate
Gate
Shed
San Miguel R E A Power
M.S.T. & T. Co.
House
3' Walk Gate
Hospital

N.89°40'E. 1227.8'
820.4'
820.1'
1228.1'
N 0°20' 1317.0'
1317.0'
909.0'
909.0'
N.89°52'W.
N.89°52'W.
N.89°52'W.

Δ 90°06' Rt.
Δ 62°06' Rt.
Dc 14°
T 246.4
Lc 443.6
Rc 409.3

θ 14°
Ts 513.9
Ls 200.0
LT 133.8
ST 67.0

C.S. 10+69.9
S.T. 12+66.9
12+66.9 Begin Project F020-1(2)

SC 6+23.3
CS 10+69.9
ST 12+66.9
CITY LIMITS
NORWOOD
θ 14°
Ts 513.9
Ls 200.0
LT 133.8
Rc 409.3
T.S. 4+23.3

Clearing & Grubbing
Sta. 11+ to 35+ Light Sagebrush
Along Fence Rt. & Lt.

SW1/4 Sec.22
T.45 N. R.13W.

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

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

7000
6990
6980
6970
6960

N.F.S.D. >1300'
N.F.S.D. >1300'

10 15 20 25 30 35

PLATE 1-PLAN-PROFILE R P H STANDARD

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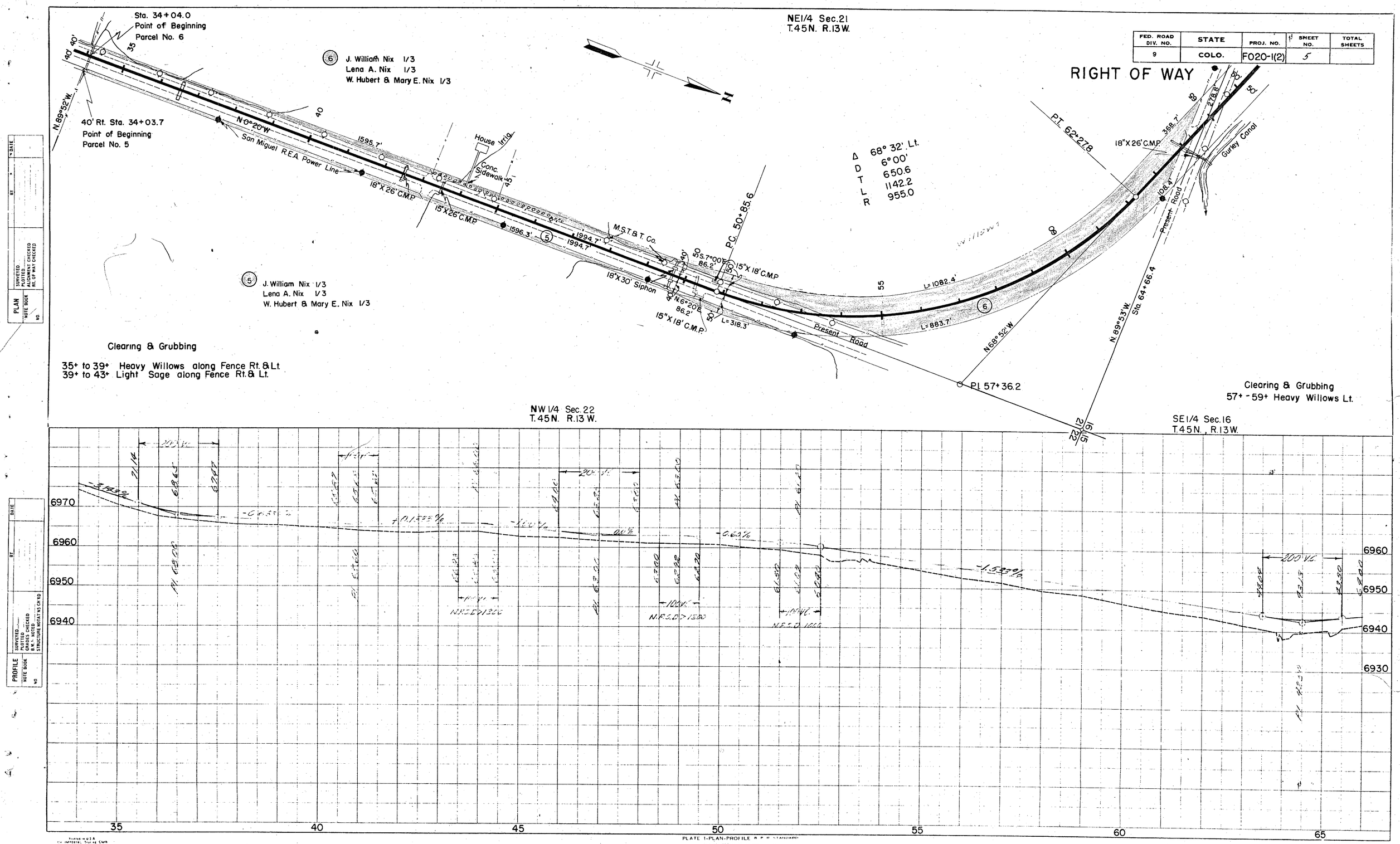

FED. ROAD DIV. NO. 9
STATE COLO.
PROJ. NO. F020-1(2)
SHEET NO. 5
TOTAL SHEETS
RIGHT OF WAY
Sta. 34+04.0
Point of Beginning
Parcel No. 6
40' Rt. Sta. 34+03.7
Point of Beginning
Parcel No. 5
N.89°52'W.
N0°20'W
San Miguel R.E.A. Power Line
1595.7'
18"X26' C.M.P.
15"X26' C.M.P.
House Irrig.
Conc. Sidewalk
1596.3'
1994.7'
M.S.T.&T. Co.
18"X30' Siphon
N.6°20'E
86.2'
15"X18' C.M.P.
S.7°00'E
86.2'
15"X18' C.M.P.
L=318.3'
P.C. 50+85.6
Present Road
L=1082.4'
L=883.7'
N68°52'W
P.I. 57+36.2
Δ 68° 32' Lt.
D 6°00'
T 650.6
L 1142.2
R 955.0
P.T. 62+27.8
18"X26' C.M.P.
368.7'
278.8'
Gurley Canal
108.4'
Present Road
N.89°53'W.
Sta. 64+66.4
J. William Nix 1/3
Lena A. Nix 1/3
W. Hubert & Mary E. Nix 1/3
Clearing & Grubbing
35+ to 39+ Heavy Willows along Fence Rt. & Lt.
39+ to 43+ Light Sage along Fence Rt. & Lt.
Clearing & Grubbing
57+ - 59+ Heavy Willows Lt.
NE1/4 Sec.21
T.45N. R.13W.
NW1/4 Sec.22
T.45N. R.13W.
SE1/4 Sec.16
T.45N., R.13W.
6970
6960
6950
6940
6930
35
40
45
50
55
60
65
PLATE 1-PLAN-PROFILE

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	6	

RIGHT OF WAY

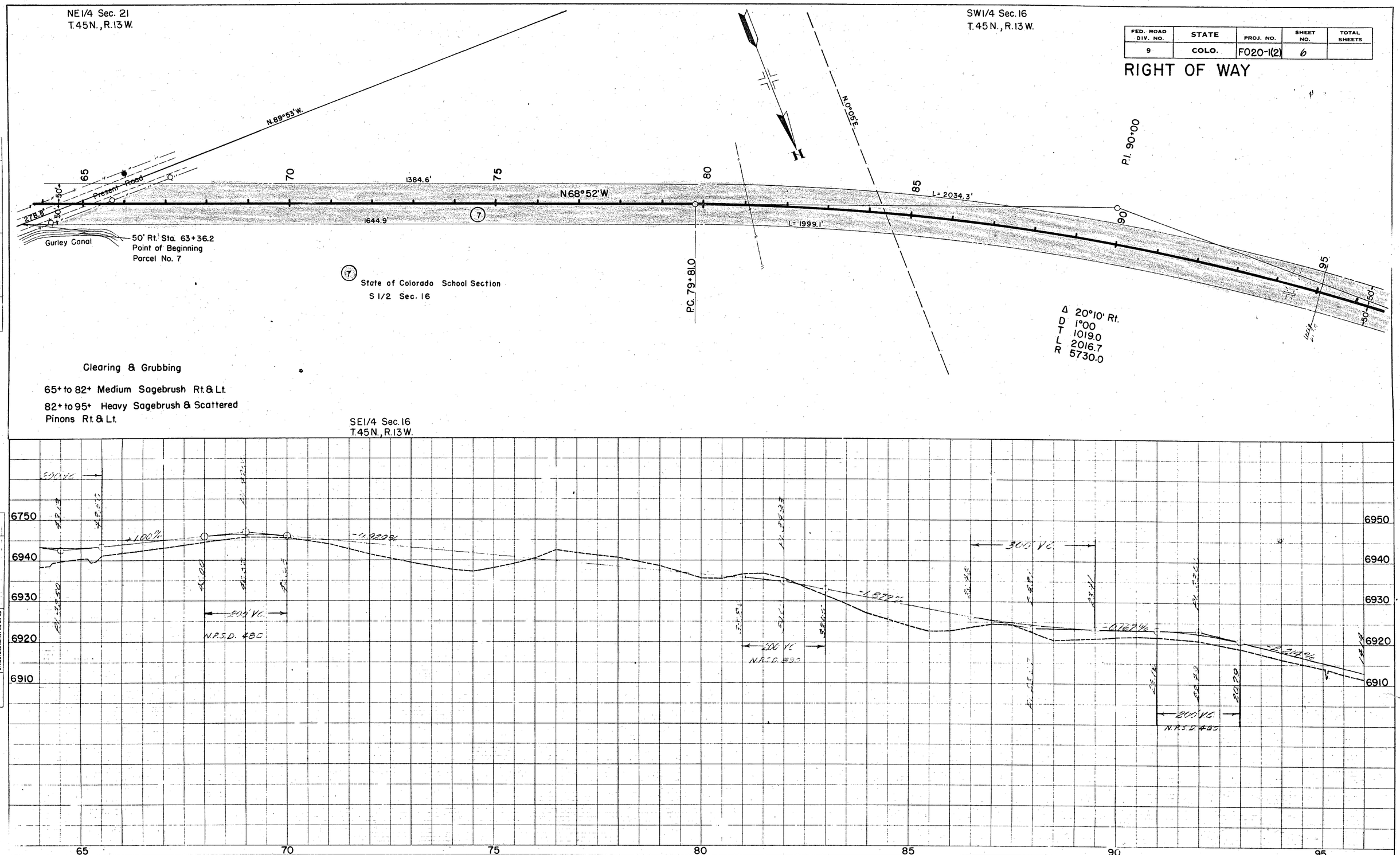

PLATE 1-PLAN-PROFILE

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	7	

RIGHT OF WAY

NE1/4 Sec. 17
T.45N., R.13W.

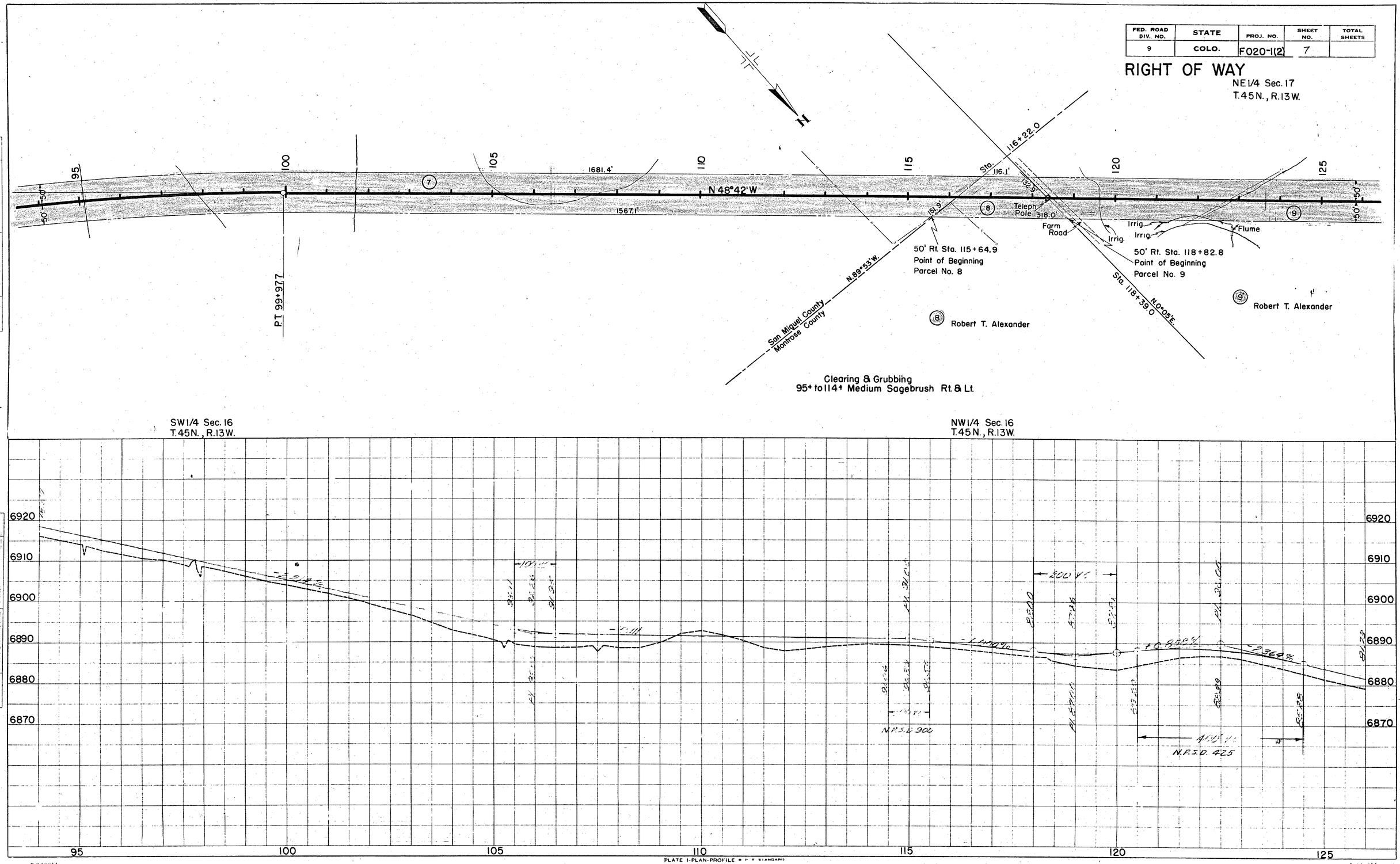

PLATE 1-PLAN-PROFILE

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

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M.'s NOTED, STRUCTURE NOTATNS CH KD, NOTE BOOK, NO., BY, DATE

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	8	

RIGHT OF WAY

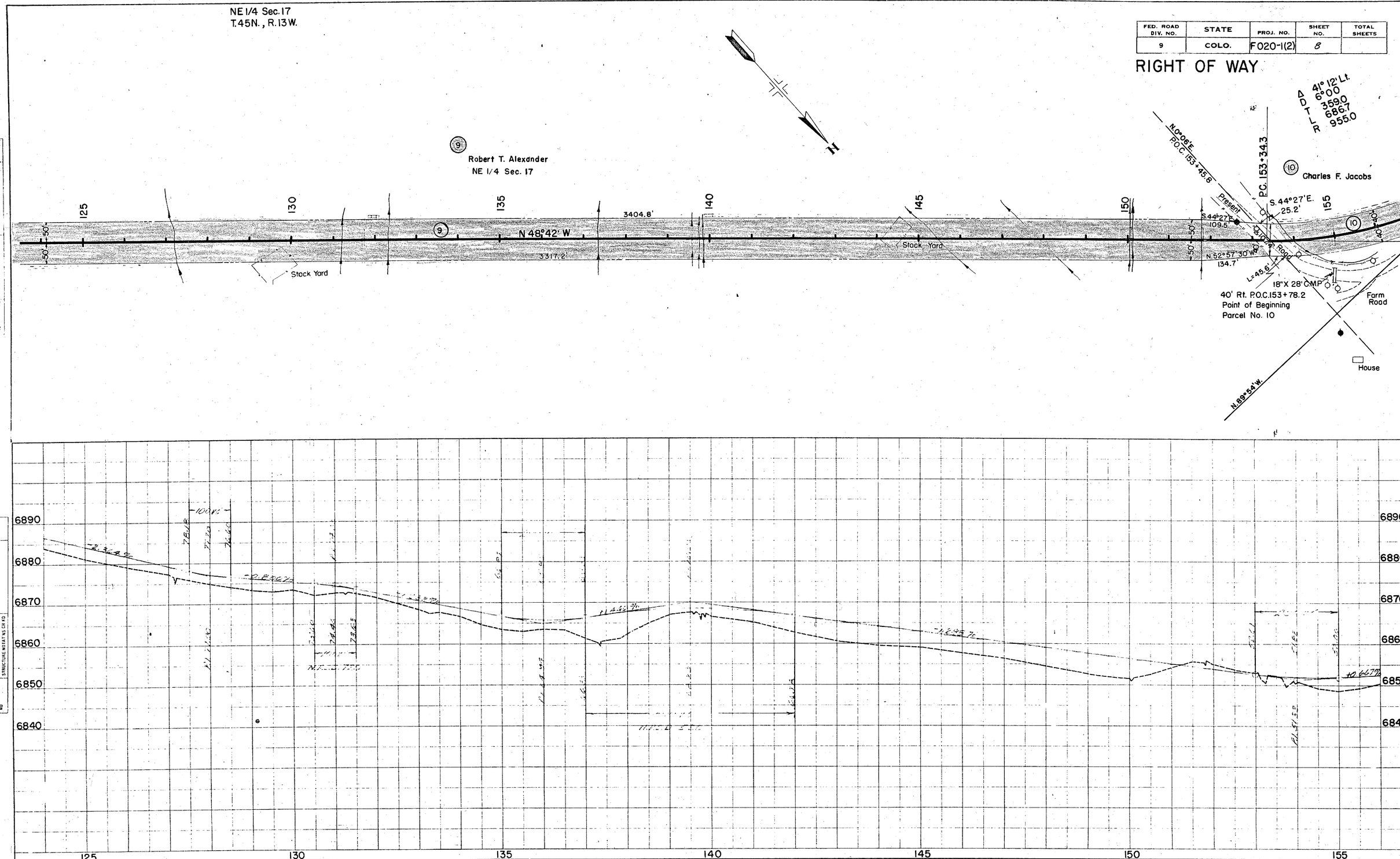

PLATE 1-PLAN-PROFILE B.P.R. STANDARD

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	9	

RIGHT OF WAY

NW1/4 Sec. 17
T. 45N., R. 13W.

NE1/4 Sec. 18
T. 45N., R. 13W.

Δ 41° 12' Lt
D 6°00
R 955.0
T 686.7
L 1590

Δ 1° 15' Lt
No Curve

N. 0°06'E.

N. 0°06'E.

Sta. 181+32.0
Point of Beginning
Parcel No. 12

Sta. 181+32.0

P.I. 181+32.0

40' Rt. Sta. 181+32.0
Point of Beginning
Parcel No. 13

P.I. 156+93.3

40' Rt. P.O.C. 157+49.3
Point of Beginning
Parcel No. 11

P.T. 160+21.0 Bk.
161+13.9 Ah.

EQUATION

(10) Charles F. Jacobs

(11) Charles F. Jacobs

(12) C. D. Waggoner Jr.

N 48°42' W

L = 657.9'

L = 386.7'

Stone Sidewalk

House

1'x1'x16' W.B.C.

15" X 18' C.M.P.

18" X 28' C.M.P.

Farm Road

L = 283.1'

N 89°54' W

2018.1'

2297.4'

18" X 28' C.M.P.

M.S.T. & T. Co.

Div. Box

18" X 28' C.M.P.

18" X 32' Siphon

15" X 26' C.M.P.

S 88°51' W

Well

Cattle Guard

House

2018.1'

San Miguel R.E.A. Power Line

County Road

Clearing & Grubbing
155+ to 185+ Light Sagebrush along Fence Rt. & Lt.
157+50 to 158+25 12 Fruit Trees Lt.

SW1/4 Sec. 8
T. 45N., R. 13W.

SE1/4 Sec. 7
T. 45N., R. 13W.

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

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

6860 6850 6840 6830 6820 6810

6880 6850 6840 6830 6820 6810 6800

200' V.C.
+0.66%
-2.71%
N.P.E.C. 2.3
200' V.C.
N.P.E.C. >1300'
100' V.C.
-4.31%
200' V.C.
N.P.E.C. 485
-2.93%

155 160 165 170 175 180 185

PLATE 1-PLAN-PROFILE B P R STANDARD
EUGENE DIETZGEN CO. Chicago-New York

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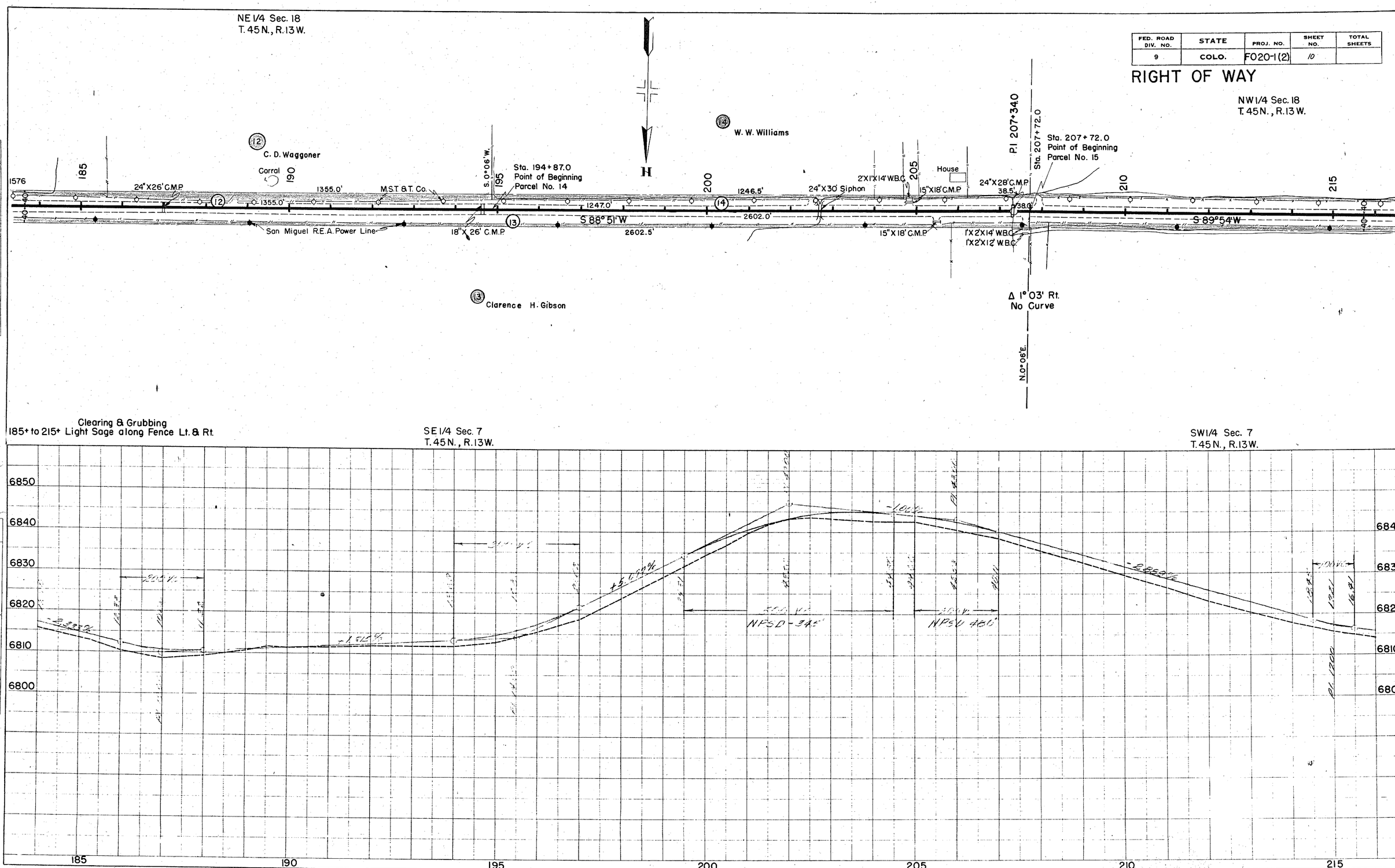
FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	10	

RIGHT OF WAY



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

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO. Chicago New York

Printed in U.S.A.
On IMPERIAL Tracing Cloth

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	11	

RIGHT OF WAY

NW1/4 Sec. 18
T. 45 N., R. 13 W.

NE 1/4 Sec. 13
T. 45 N., R. 14 W.

(15) D. Lewis Williams

House

N. 0°02' W.

Pl. 233+36.1

Sta. 233+36.1
Point of Beginning
Parcel No. 17
N. 89°54' E.
0.4'
Guy Pole

(17) C.P., Dina C., Charles H. and Zenobia A. Reed

215 | 1597 | 18"X28' C.M.P. | 220 | 2564.0' | 2564.1' | 225 | 15"X18' C.M.P. | M.S.T. & T. Co. | 230 | 18"X28' C.M.P. | 235 | 18"X28' C.M.P. | 240 | 18"X30' Siphon | 2633.5' | 245 | 15"X18' C.M.P. | 1618

S 89°54' W | 2602.1' | 2601.7' | N 88°50' W | 2634.0' | 2633.9'

1'X1'X14' W.B.C. | San Miguel Power Line (R.E.A.) | 1'X1'X18' W.B.C. Under Irrig. Ditch | 1'X1'X28' W.B.C. Under Irrig. Ditch

40' Rt. Sta. 233+36.1
Point of Beginning
Parcel No. 16

Δ 1°16' Rt.
No Curve

(16) Loy Mack

T. 45 N., R. 13 W.
T. 45 N., R. 14 W.

Clearing & Grubbing
215+ to 245+ Light Sagebrush along Fence Lt. & Rt.

SW1/4 Sec. 7
T. 45 N., R. 13 W.

SE 1/4 Sec. 12
T. 45 N., R. 14 W.

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE
BY

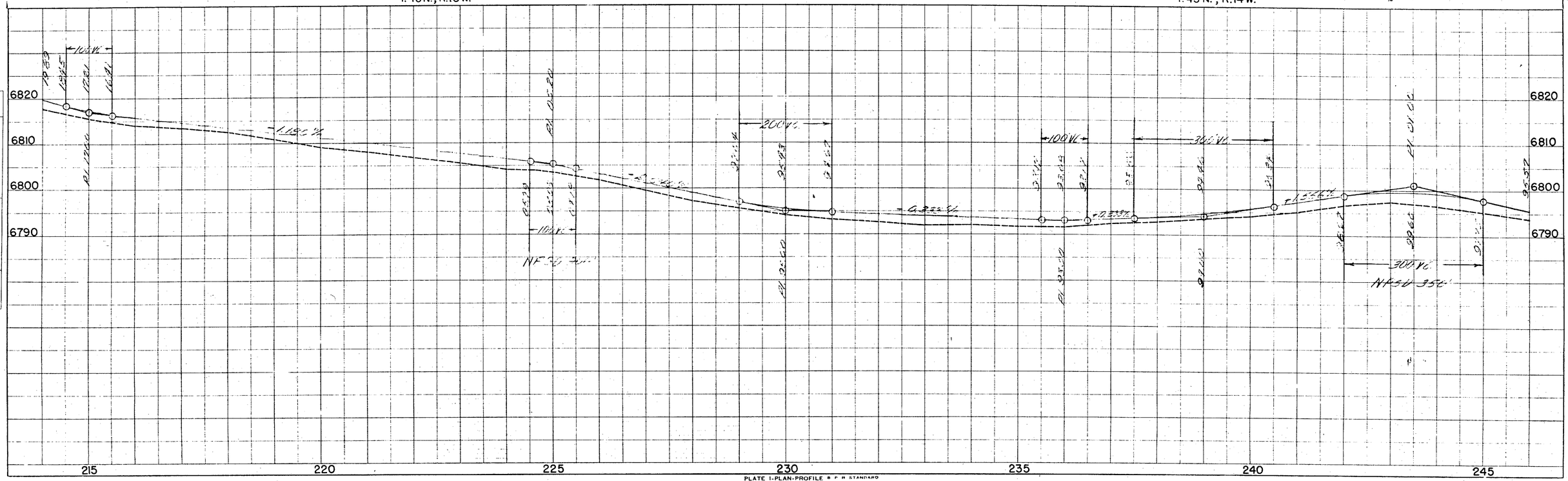
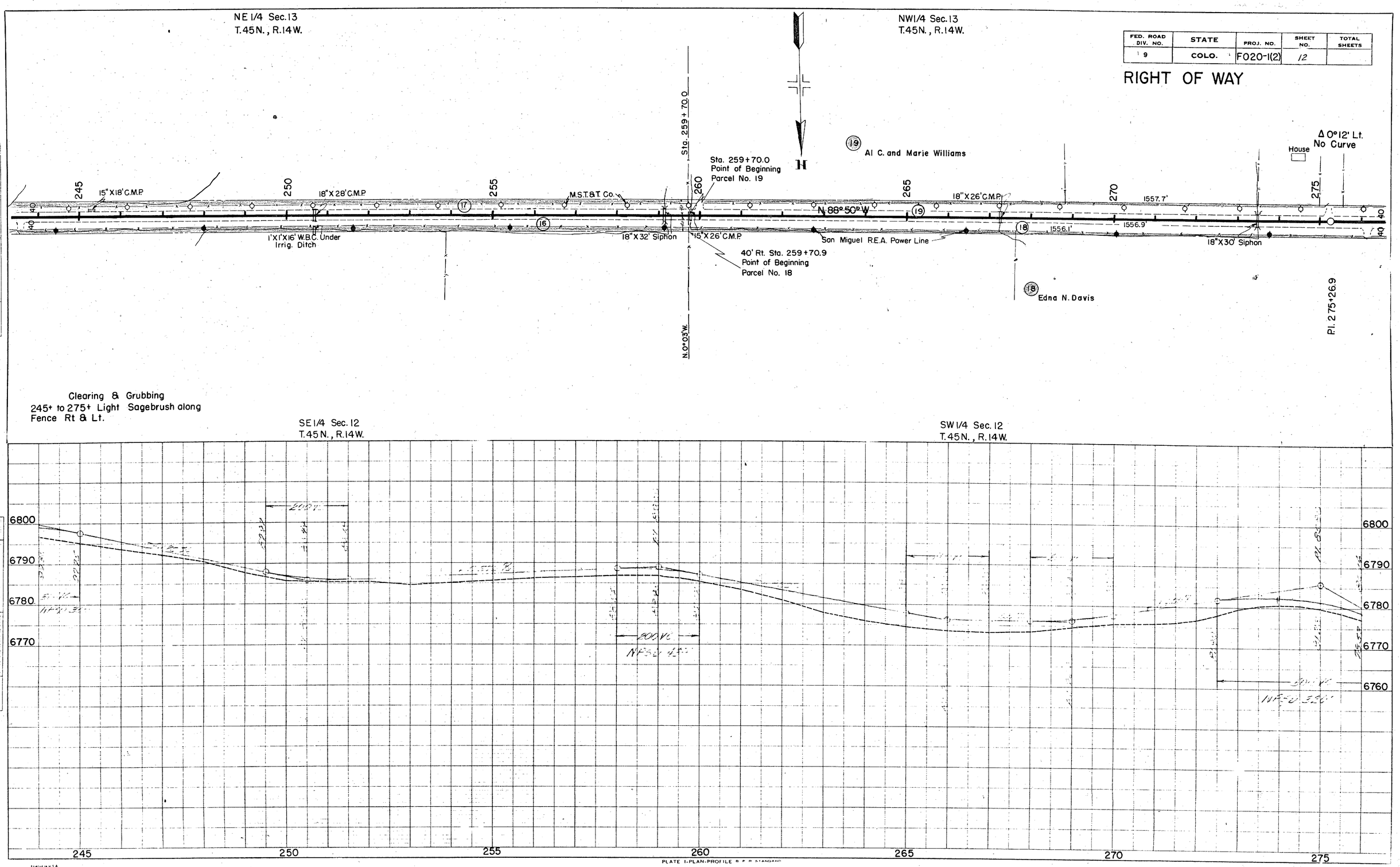


PLATE I-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

Printed in U.S.A. On IMPERIAL Tracing Cloth

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	12	

RIGHT OF WAY



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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

PLATE 1-PLAN-PROFILE R. P. R. STANDARD
EUGENE DIETZGEN CO. Chicago New York

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	13	

RIGHT OF WAY

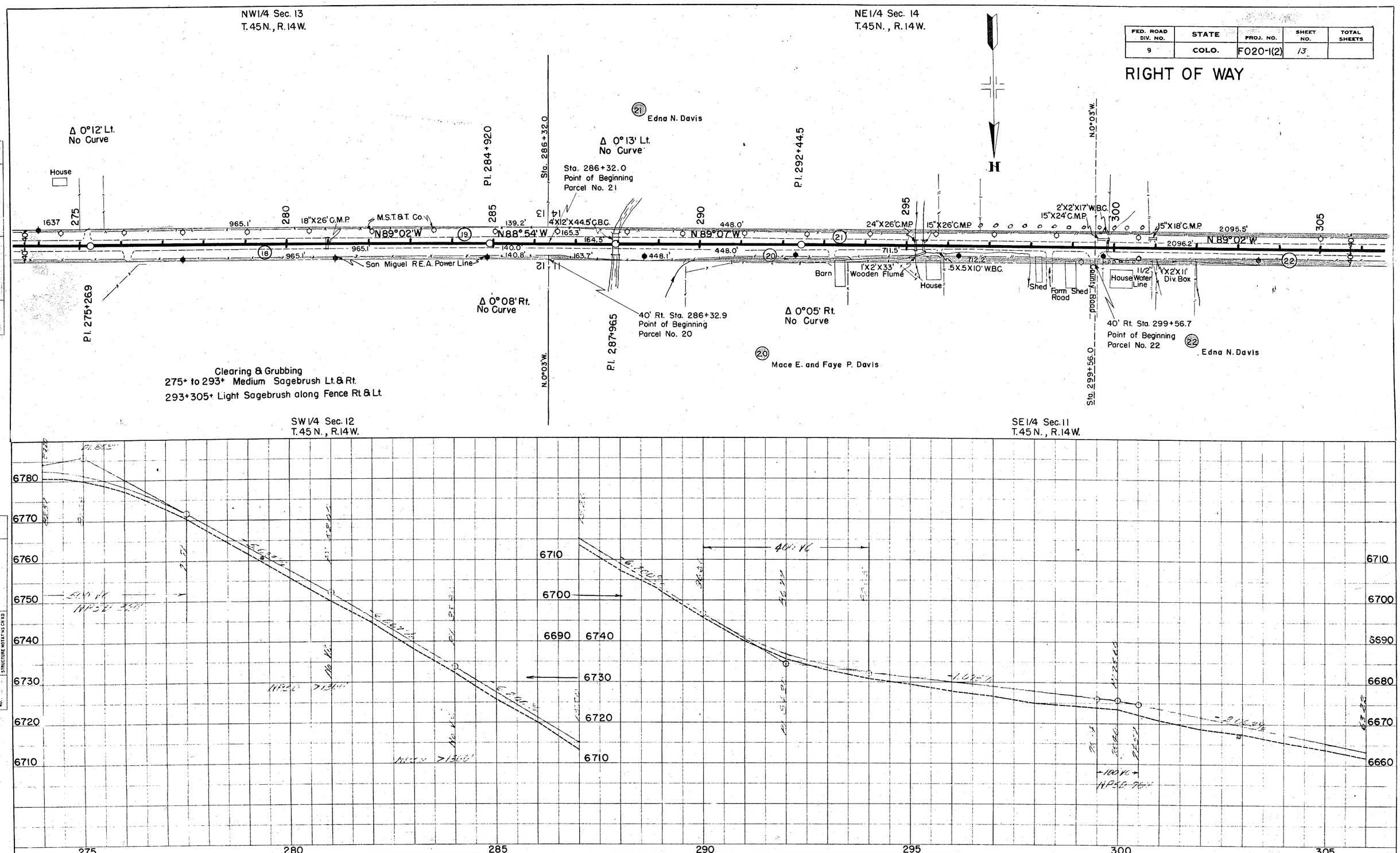


PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago New York

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	14	

RIGHT OF WAY

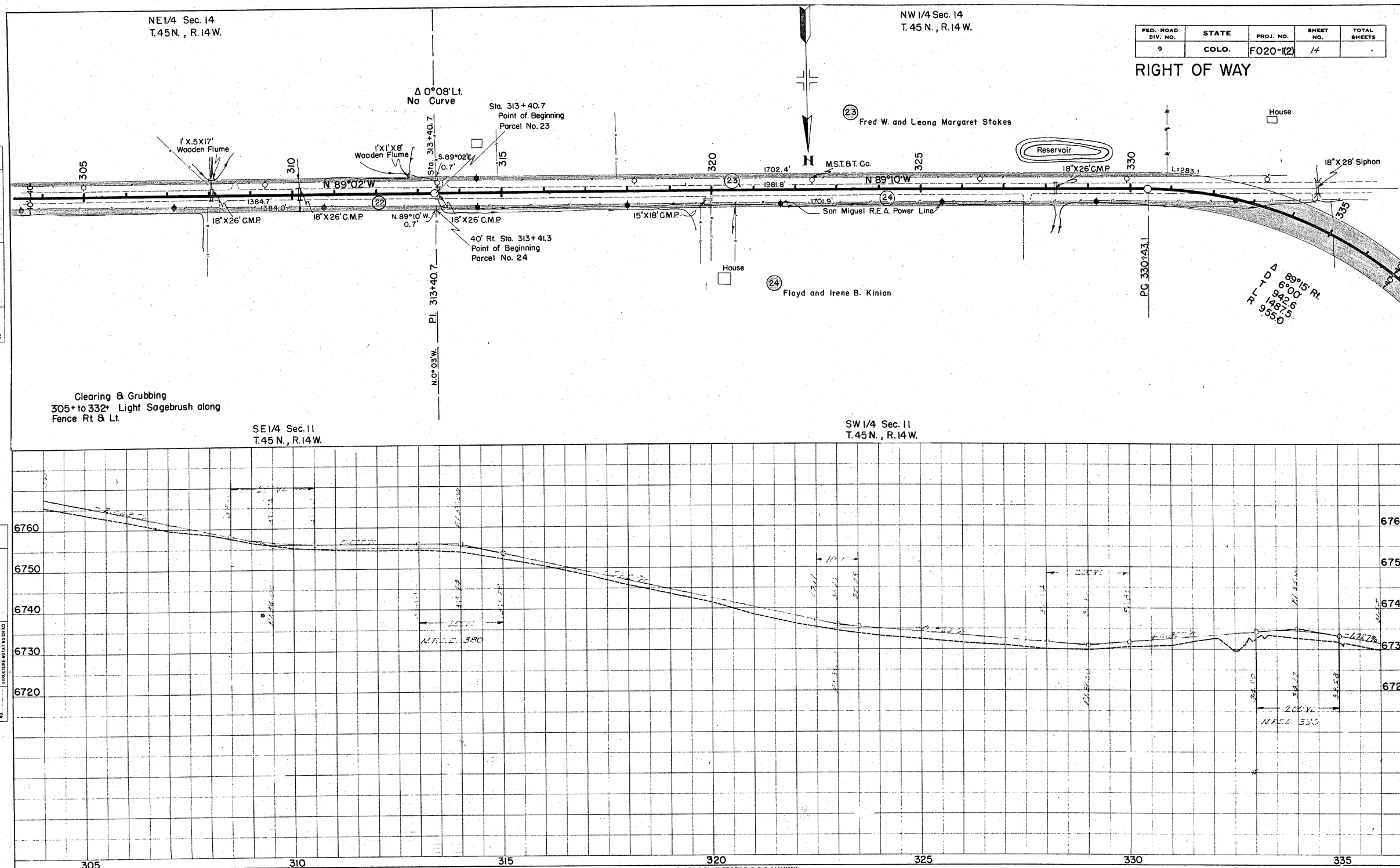

PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

Printed in U.S.A. On IMPERIAL Tracing Cloth

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

PROFILE — NOTE BOOK NO. — SURVEYED — PLOTTED — GRADES CHECKED — B.M.'s NOTED — STRUCTURE NOTATNS CH KD — BY — DATE

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	15	

RIGHT OF WAY

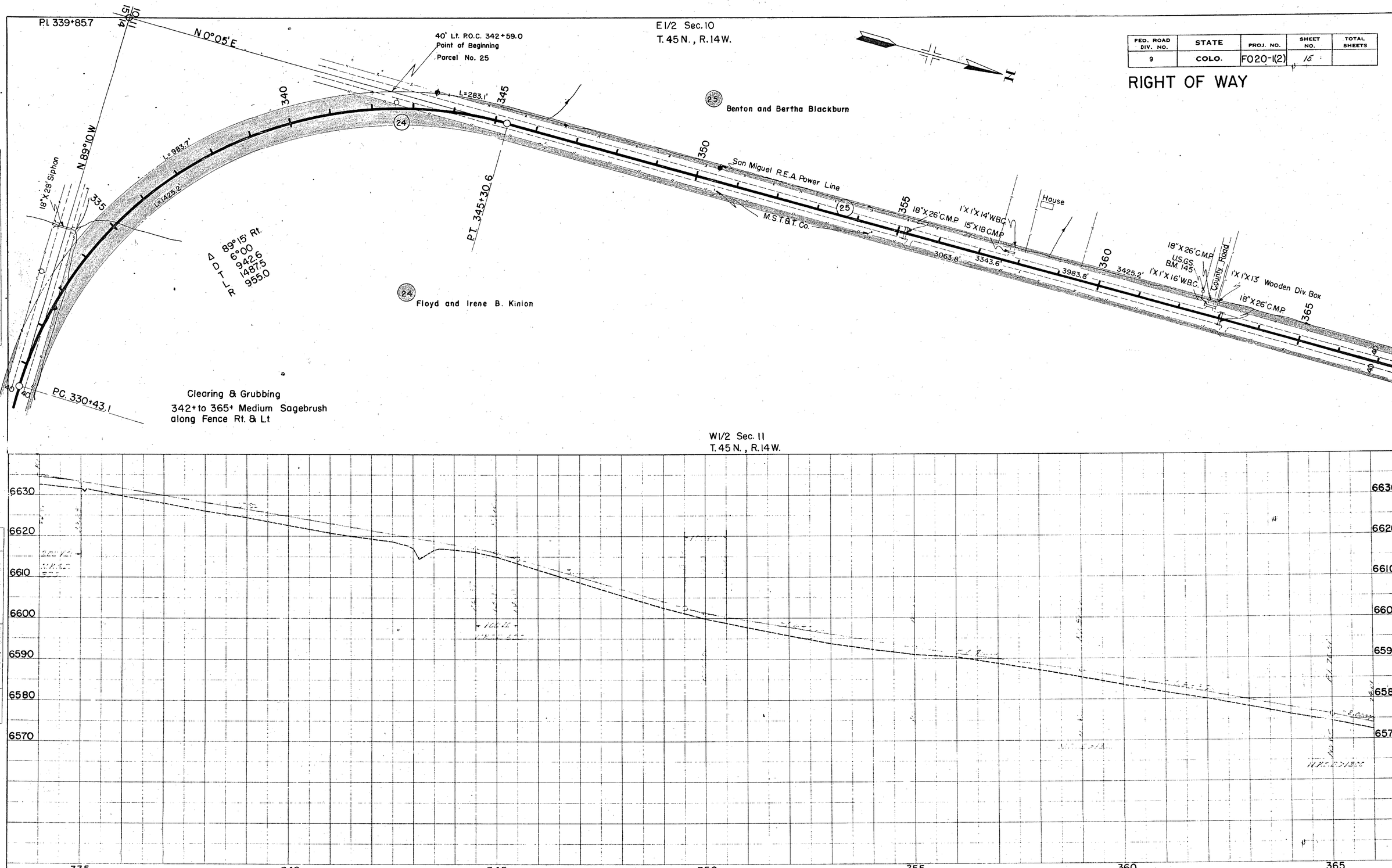

PLATE 1-PLAN-PROFILE B.P.R. STANDARD
LUCIENI DIETZGEN CO. Chicago-New York

Printed in U.S.A. On IMPERIAL Tracing Cloth

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	16	

RIGHT OF WAY

E 1/2 Sec. 10
T. 45 N., R. 14 W.

90°18' Lt.
6°00
960.0
150.5
95.0

PT 394+60.8

40' Rt. P.O.C. 391+89.2
Point of Beginning
Parcel No. 27

M.S.T.&T. Co.

15"X18' C.M.P.

House

L=283.1'

San Miguel R.E.A. Line

24"X26' C.M.P.

P.C. 379+55.8

361.4'

40' Rt. 375+94.5
Point of Beginning
Parcel No. 26

L=283.1'

640.2'

L=1442.0'

L=1001.9'

N 89°09' W.

26

Jessie P. Eckler and Nellie P. Bull

25

N 0°05' E

S 89°47' W

PI. 389+15.8

Clearing & Grubbing
365+ to 381+ Medium Sagebrush along Fence Rt. & Lt.
381+ to 391+ 4 Pinon Trees

W 1/2 Sec. 11
T. 45 N., R. 14 W.

SE 1/4 Sec. 3
T. 45 N., R. 14 W.

PLAN
NOTE BOOK
NO
SURVEYED
PLOTTED
ALIGNMENT CHECKED
BY
DATE

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

6580
6570
6560
6550
6540
6530
6520

365 370 375 380 385 390 395

Printed in U.S.A.
On IMPERIAL Tracing Cloth
EUGENE DIETZGEN CO. Chicago New York

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	17	

RIGHT OF WAY

NE 1/4 Sec. 10
T. 45 N., R. 14 W.

NW 1/4 Sec. 10
T. 45 N., R. 14 W.

SE 1/4 Sec. 3
T. 45 N., R. 14 W.

SW 1/4 Sec. 3
T. 45 N., R. 14 W.

N

1724 P.T. 394+60.8 395 400 405 410 415 420 425

638.4'

2'X4'X 31.5 C.B.C.

M.S.T. & T. Co.

2'X4'X 31.5 C.B.C.

2X4'X 35.5 C.B.C.

Guy Pole

P.I. 411+75.9

N. 0°03' W.

411+43
Point of Beginning
Parcel No. 29

S. 89°47' W

1338.10'

N 89°59' W.

Fruit Trees

House

Sta. 425+14.0

1745

18"X26' C.M.P.

15"X18' C.M.P.

359.0'

15"X18' C.M.P.

1323.0'

San Miguel R.E.A. Power Line

15"X18' C.M.P.

2'X10' Foot Bridge

1690.74'

15"X18' C.M.P.

40' Rt. Sta. 398+19.88
Point of Beginning
Parcel No. 28

Sta. 398+20.0

N. 0°03' W.

Sta. 411+43.0

Farm Road

40' Rt. 411+42.88
Point of Beginning
Parcel No. 30

House

Δ 0°14' Rt.
No Curve

(27) Elmer L. and Mable Archer

(28) R.E. Gross

(29) Edward J. Finnegan

(30) Jessie P. Eckler and Nellie P. Bull

Clearing & Grubbing
395+ to 425+ Medium Sagebrush
along Fence Lt. & Rt.

6530
6520
6510
6500
6490

395 400 405 410 415 420 425

PLATE I-PLAN-PROFILE B. P. R. STANDARD

EUGENE DIETZGEN CO. Chicago New York

Printed in U.S.A. On IMPERIAL Tracing Cloth

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	18	

RIGHT OF WAY

NW 1/4 Sec. 10
T. 45 N., R. 14 W.

NE 1/4 Sec. 9
T. 45 N., R. 14 W.

(31) A. B. Barrett

(32) Mrs. E. W. Bray
Sta. 438+50.0
Point of Beginning
Parcel No. 32

(34) Lillie D. Barrett
Sta. 441+84.5
Point of Beginning Parcel No. 34

(36) Minnie Mae and Clara V. Foster
Sta. 448+34.8
Point of Beginning
Parcel No. 36

Sta. 425+14.0
Point of Beginning
Parcel No. 31

P.I. 428+66.8

P.I. 448+34.8

1744

425 430 435 440 445 450 455

18"X 26' C.M.P.

352.9'

352.8'

N 89°59' W

18"X 28' Siphon M.S.T.&T. Co.

Fruit Trees

983.2'

Reservoir

15"X18' C.M.P.

S. 1°05' W.

24"X28' C.M.P.
Fruit Trees

334.5'

House

15"X18' C.M.P.

15"X26' C.M.P. 650.5'

650.3'

984.8'

984.7'

15"X18' C.M.P.

3'X6'X 25.5' C.B.C.

House

1'X2'X 20' W.B.C.

County Road

Fruit Trees

Sidewalk

House

1'X1'X22' W.B.C.

House

2'X12' Sidewalk

305.2'

350.2'

N 89°40' W

40' Lt.

40' Rt.

1'X2'X16' W.B.C.

1'X1'X4' Div. Box

983.2'

San Miguel R.E.A. Power Line

15"X18' C.M.P.

House

15"X12' C.M.P.
40' Rt. Sta. 438+50.1
Point of Beginning
Parcel No. 33

15"X28' Siphon

Sign

15"X28' Siphon

1'X1'X12' W.B.C.

House

Guy Pole

2'X12' Steel Pipe

12"X12' C.M.P.

House

House

1'X1'X28' Wooden Flume

40' Rt. Sta. 448+34.8
Point of Beginning
Parcel No. 35

Δ 0°14' Rt.
No Curve

Δ 0°05' Rt.
No Curve

(33) Claude G. Barrett

(35) A. E. Guy

Sta. 438+50.0

Sta. 448+34.8
S. 5°17'30" W.

Sta. 451+65.0
S. 0°12'30" W.

Sta. 455+15.0

Clearing & Grubbing
425+ to 451+ Medium Sagebrush
along Fence Rt. & Lt.

Clearing & Grubbing
451+ to 455+ Light Sagebrush
along Fence Rt. & Lt.

SW 1/4 Sec. 3
T. 45 N., R. 14 W.

SE 1/4 Sec. 4
T. 45 N., R. 14 W.

6510
6500
6490
6480

+1.66%

-1.33%

+1.43%

-2.33%

150' V.C.
N.P.S.D. 1100

200' V.C.
N.P.S.D. 340

400' V.C.
N.P.S.D. 520

N.P.S.D. 850

N.P.S.D. 1300

425 430 435 440 445 450 455

PLATE I-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

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

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
R.R. CROSS
STRUCTURE NOTATNS CK'D
BY
DATE

Printed in U.S.A.
On IMPERIAL Tracing Cloth

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	19	

RIGHT OF WAY

NE 1/4 Sec. 9
T. 45 N., R. 14 W.

SW 1/4 Sec. 4
T. 45 N., R. 14 W.

SE 1/4 Sec. 4
T. 45 N., R. 14 W.

P.I. 471+26.3

County Road 465

County Road 470

Farm Road 475

County Road 480

County Road 485

18"X26' C.M.P.

15"X26' C.M.P.

15"X28' Siphon

1'X1'X30' W.B.C.

1'X1'X10' Flume

USGSBM

2'X1'X16' W.B.C.

Sign

House

Store

Post Office

Sidewalk

Road

Church

San Miguel R.E.A. Line

M.S.T. & T. Co.

1765

1'X1'X22' W.B.C.

1'X1'X12' W.B.C.

1'X2'X28' W.B.C.

1'X1'X8' Div. Box

N. 89° 40' W.

N. 0° 20' E.

Sta. 465+40.5

P.O.C. Sta. 466+45.3

Sta. 468+95.8

P.T. 475+36.4

N. 36° 12' W.

Curve Data

Δ 53° 28' Rt.
D 6° 00
T 481.0
L 891.1
R 955.0

40' Rt. P.O.C. 467+26.1
Point of Beginning
Parcel No. 39
Reva S. Lutz

40' Rt. P.O.C. 468+95.8 – Point of Beginning
Parcel No. 40

40' Rt. P.O.C.
470+57.0 – Point of Beginning
Parcel No. 41
A. E. Guy

40' Rt. P.O.C.
472+84.0
Point of Beginning
Parcel No. 42

40' Rt. P.O.C.
475+23.0
Point of Beginning
Parcel No. 43

40' Rt. Sta. 478+08.8
Point of Beginning
Parcel No. 44

40' Rt. Sta. 479+71.7
Point of Beginning
Parcel No. 45

40' Rt. Sta. 483+63.1
Point of Beginning
Parcel No. 46

40' Rt. P.O.C. 466+79.0
Point of Beginning Parcel No. 38
Raymond W. & Veola V. Strawn

40' Rt. Sta. 466+45.3
Point of Beginning
Parcel No. 37

(37) Raymond W. & Veola V. Strawn
(38) Redlands Townsite Co.
(39) Reva S. Lutz
(40) A. E. Guy
(41) Redlands Townsite Co.
(42) Reva S. Lutz
(43) Redlands Townsite Co.
(44) Redlands Townsite Co.
(45) Redlands Townsite Co.
(46) F. H. Starbuck

Clearing & Grubbing
455+ to 466+ Light Sagebrush
along Fence Rt. & Lt.

Clearing & Grubbing
466+ to 473+ Medium Sagebrush
473+ to 485+ Light Sagebrush
along Fence Line Rt. & Lt.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/T OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.R.'S NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

6490
6480
6470
6460
6450
6440

455 460 465 470 475 480 485

PLATE 1-PLAN-PROFILE B.P.R. STANDARD
EUGENE DIETZGEN CO., Chicago New York

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	20	

RIGHT OF WAY

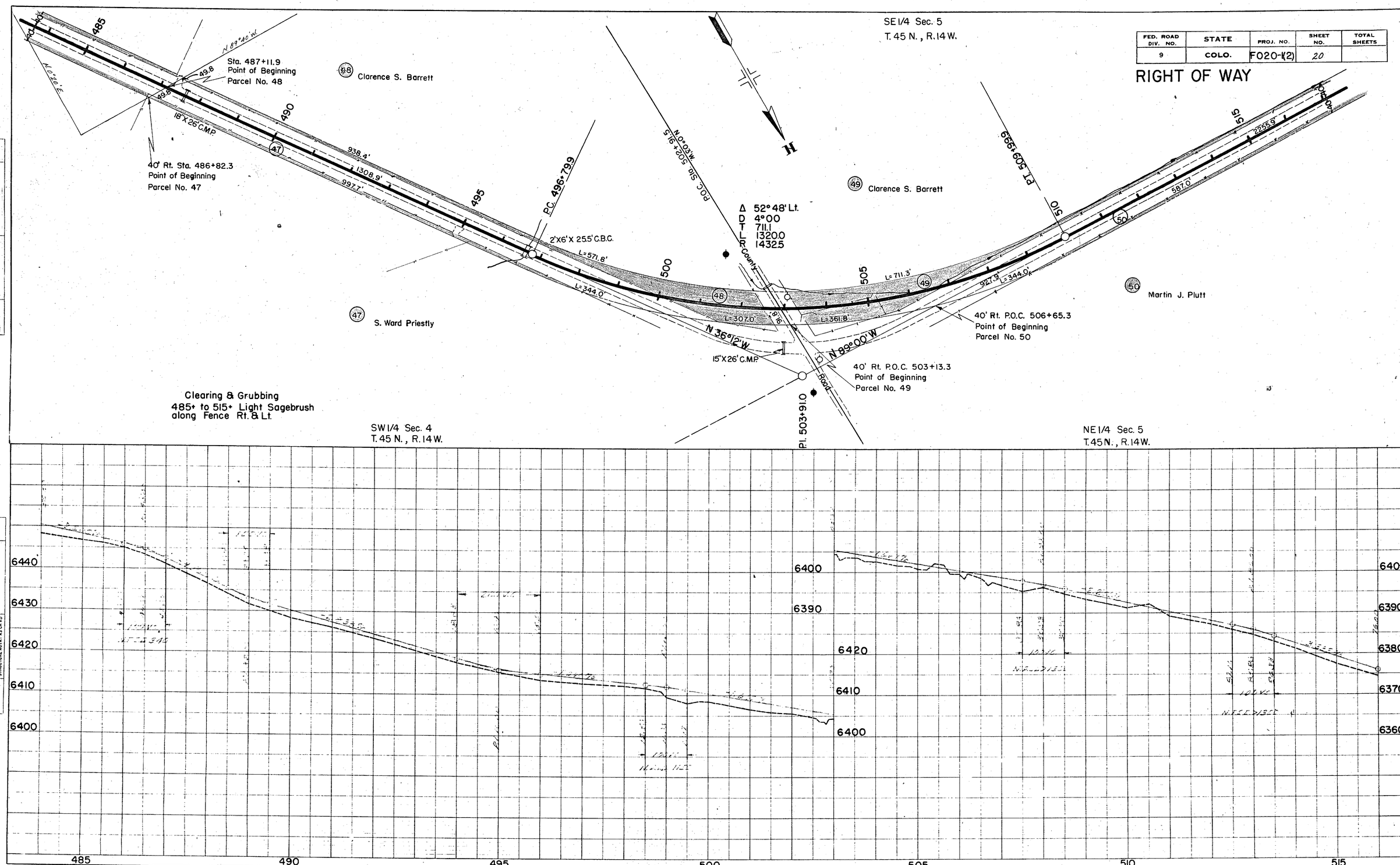

PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

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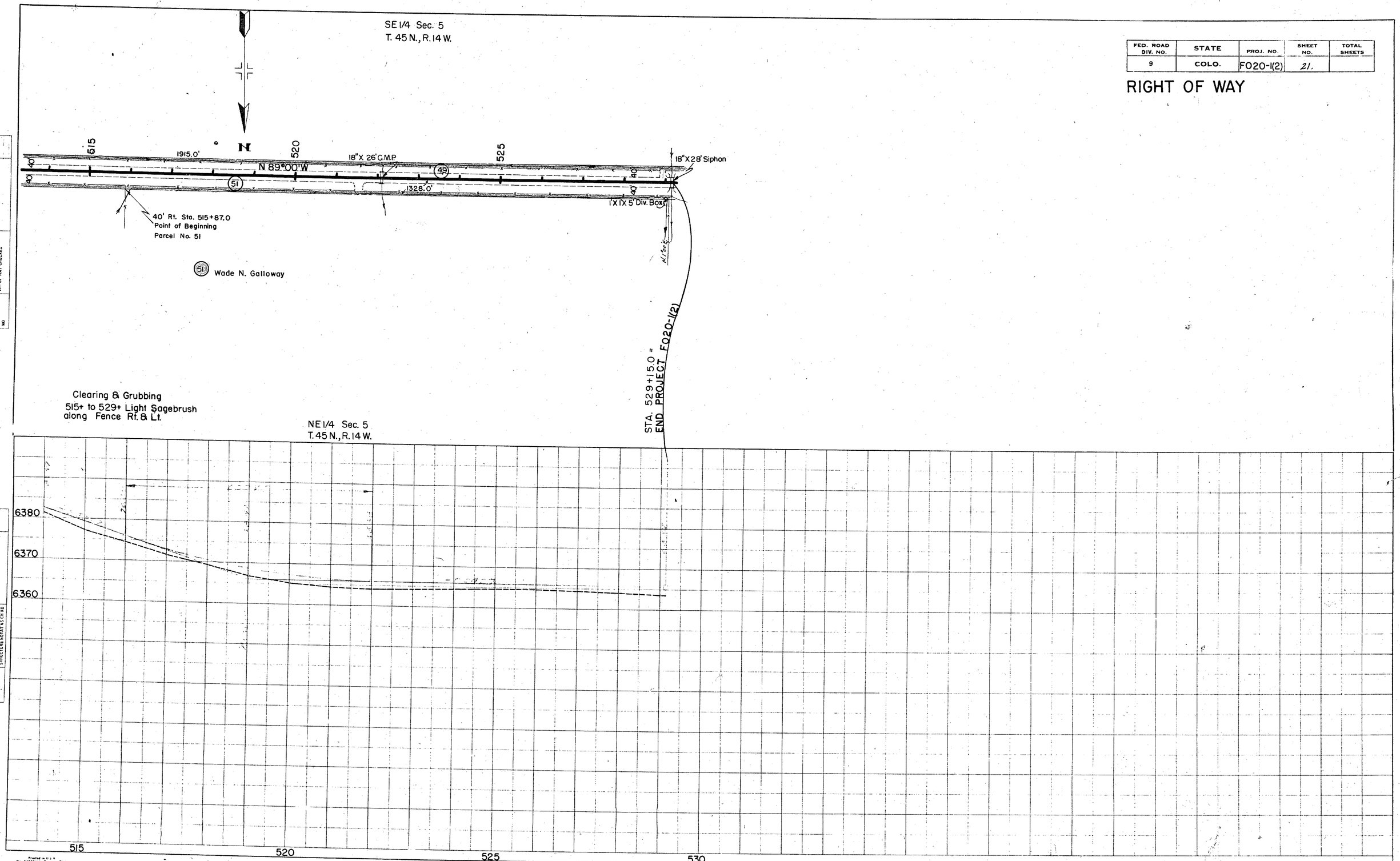
FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	21.	

RIGHT OF WAY



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

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

PLATE 1-PLAN-PROFILE B. C. H. STANDARD
EUGENE DIETZGEN CO. Chicago-New York

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Eva L. McKeever
E½ SE¼ SE¼

Mrs. Marvel Souther
SW¼ NE¼, W½ SE¼, NE¼ SE¼

San Miguel Basin Fair Ass'n.
Part SW¼

William Nix
E½ NE¼

Agnes L. Cunningham
N½ SW¼

William Nix
W½ NW¼

State of Colorado - School Section
NW¼ NE¼, Sec. 21 S½, Sec. 16, SE¼, Sec. 17

San Miguel County
Montrose County

Robert Alexander
SW¼ NW¼, Sec. 16, NE¼, Sec. 17

Farm Road

OWNERSHIP MAP

PLAT OF PART OF T. 45 N., R. 13 W. AND R. 14 W. N.M.P.M. SHOWING CLAIMANTS WITH REGARD TO RIGHT OF WAY FOR PROJECT FO20-1(21)

ORIGINAL SCALE 1" = 400'
August 21, 1950

1. Recomended R.O.W. Width 40 feet each side of centerline except as noted.
2. All ties are field ties except as noted

Charles Jacobs
NW¼, Sec. 17; NE¼ NE¼ Sec. 18; SW¼ SE¼, S½ SW¼, Sec. 8;

C.D. Waggoner
NE¼ NE¼

W.W. Williams
NW¼ NE¼

D. Louis Willams
N½ NW¼

B.P. Reed, Diva C. Reed, Charles H Reed & Zebonia A. Reed
N½ NE¼

Loy Mock
S½ SE¼

Clarence H. Gibson
S½

Edna N. Davis
S½ SW¼

AL C. & Marie H. Williams
N½ NW¼

OWNERSHIP MAP
PLAT OF PART OF T. 4 S., R. 3 W. AND R. 4 W. N.M.P.M. SHOWING CLAIMANTS WITH REGARD TO RIGHT OF WAY FOR PROJECT FOZO-1(2).

ORIGINAL SCALE 1" = 400'
August 21, 1950

Fred W. & Leona Margaret Stokes
N½ NW¼

Floyd & Irene B. Kinion
SW¼, S½ NW¼

Benton & Bertha Blackburn
E½

Edward J. Finnegan
NE¼ NW¼

Nellie Bull & Jessie Eckler
SW¼

Edna N. Davis
N½ NE¼

Edna N. Davis
SW¼ SE¼

Mace C. & Fay Davis
SE¼ SE¼

Nellie P. Bull & Jessie Eckler NW¼ NW¼

Elmer L. & Mable Archer
SE¼ SE¼

R. E. Gross
SW¼ SE¼

Block 37 - Park (Vacant)
Block 38 - Redlands Town Co.
Block 39 -
Lots 1 to 12 - A. E. Guy
Lots 19 to 24 - Mary Ethel & Harry B. Howell
Block 40
Lots 1 to 7 Wm. Cole & Mrs. J. Frazer
8 to 24 Mrs. Hedwig Young

A. B. Barrett
NW¼ NW¼

Lillie M. Barrett

Claud G. Barrett

A. E. Guy First Addition

Second Addition

Blocks 16, 17, & 18 - Redlands Town Co. - A. E. Guy

Block 25
Lots 10 to 12 - Arthur Foster.
Lots 13 to 22 - Claud G, Clarance S and Gordon N. Barrett.

Block 26.
Lots 8 to 12 - Congregational Church
Lots 13 to 24 - A. E. Guy

Block 27 - Redlands Town Co.

Block 23
Lots 8 to 12 - A. E. Hardman
Lot 13 - Francis Langdon
Lots 14 to 21 - Redlands Town Co.

Block 29
Lots 8 to 11 - Reva S. Lutz
" 12 & 13 - Redlands Town Co.
" 14 to 18 - Raymond W. Strawn

Block 30
Lots 8 to 12 - Redlands Town Co.
Lots 13 to 18 - ~~Not shown on county~~ A. E. Guy

Lots 7 & 8 Orchard Tract #2
F. H. Starbuck

S. Ward Priestly
NW¼ SW¼ NE of Road, NW¼ & NE¼ SW¼

Block 30
Lots 1 to 6 - 5 19 to 22 - Redlands Town Co.
13 to 18 - A. E. Guy

Block 31 - Reva S Lutz

Block 35 - Ronald Mair

Block 36
Lots 1 to 5 Ethel Guire
23 & 24 Redlands Town Co.

Clarence S. Barrett
N½ SE¼

Clarence S. Barrett
(Rem) NW¼ SW¼

Martin J. Plutt
10 acre tract, NE¼ NE¼

Wade N. Galloway
SW¼ NE¼
Coll Claude Barrett

Hattie S. Keen
Remainder SW¼

Kenneth Spillman
SE¼ NW¼

Alice

Redlands Foothill Blvd

Tie
N 45° 15 W
3929.2' to
NW Cor. Sec. 5, T 4 S., R 4 W.

COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500001090

Description:
ROW Plans 24X36

Route # and Mile Points:
SH 145

Originating Office:

ROW/Survey

File Name:
F 020-1(2)_ROW(.PDF)

Box Location:
21 (TUBE-5)of 38

For assistance, or to request changes to this form,
please email helpdesk@msimaging.com.

MOUNTAIN STATES
IMAGING

F 020-1 (2)

YEAR PURCHASED 1950 - 1951

SUMMARY SHEET - ACQUISITION OF RIGHT OF WAY

PROJECT NO. F 020-1 (2)
DESIGNATION Norwood - Redvale
MILEAGE OF PROJECT 9.764

APPRAISERS: FRED AKARD & FOREST WHITE NEGOTIATOR: CHARLES M. BURKE

Parcel No.	Owner	Area	Length of Access Rdry.	Appraisals High	Appraisals Low	Settlement cost Land	Improvements	Damage	Total	Holdback	Encumbrance	Documents Deed for R/W	Deed for Access	Release	Agreements Contracts	Openings Gates	Openings Cattlepass	Condemnation Deposit	Condemnation Award	Remarks
	BROT FORWARD	38.934		7813.00	7097.00	3438.50	0.00	6029.00	9465.50									100.00	---	
29	Edward J. Finnegan, et al	0.296	None	100.00	95.00	28.00	0.00	72.00	100.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
30	Nellie P. Bull, et al	0.806	"	61.00	60.00	61.00	0.00	0.00	61.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
31	A. P. Barrett	0.230	"	65.00	50.00	25.00	0.00	40.00	65.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
32	Mrs. E. W. Bray	0.038	"	25.00	25.00	25.00	0.00	50.00	75.00	0.00	0.00	QCD	---	---	---	---	---	---	---	$50.00 above appraisal. Appraisers over looked landscape damage
33	Claude G. Barrett	0.113	"	25.00	25.00	25.00	0.00	0.00	25.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
34	Lily D. Barrett	0.075	"	25.00	25.00	25.00	0.00	0.00	25.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
35 & 40	A. E. Guy	6 Lots	"	175.00	145.00	175.00	0.00	0.00	175.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
36	Minnie May Foster, et al	0.035	"	550.00	525.00	50.00	0.00	525.00	575.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
37	Void																			
39 & 42	Reva S. Lutz	0.086	"	150.00	120.00	150.00	0.00	0.00	150.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
38-41-43	Redlands Townsite Co.	6 Lots		200.00	190.00	200.00	0.00	0.00	200.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
44 & 45	Redlands Townsite Co.																			
46	F. H. Starbuck	0.137	"	25.00	25.00	25.00	0.00	0.00	25.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
47	S. Ward Priestly	0.164	"	125.00	125.00	125.00	0.00	0.00	125.00	0.00	0.00	QCD.	---	---	---	---	---	---	---	
48 & 49	Clarence S. Barrett	1.835	"	153.00	151.00	153.00	0.00	0.00	153.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
50	Martin J. Plutt	0.138	"	25.00	25.00	25.00	0.00	0.00	25.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
51	Wade H. Galloway, et al	0.243	"	25.00	25.00	25.00	0.00	0.00	25.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
	TOTAL	43.210		9462.00	8608.00	4475.50	0.00	6714.00	11,189.50									100.00		

YEAR PURCHASED 19 50 - 1951 TO CASEY

SUMMARY SHEET - ACQUISITION OF RIGHT OF WAY

PROJECT NO. F 020-1(2)
DESIGNATION Norwood - Redvale
MILEAGE OF PROJECT 9.764

APPRAISERS: FRED AKARD &FOREST WITTE NEGOTIATOR: CHARLES M. BURKE

Parcel No.	Owner	Area	Length of Access Bdry.	Appraisals High	Appraisals Low	Settlement cost Land	Improvements	Damage	Total	Holdback	Encumbrance	Documents Deed for R/W	Deed for Access	Release	Agreements Contracts	Openings Gates	Openings Cattlepass	Condemnation Deposit	Condemnation Award	Remarks
1	San Miguel Basin Fair Assn'	0.282	None	57.00	56.00	57.00	0.00	0.00	57.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
2	Eva L. McKeever and R. McKeever	0.188	"	217.00	211.00	42.00	0.00	175.00	217.00	0.00	0.00	W.D'	---	---	---	---	---	---	---	
3	Marvel R. Souther and Jesse Walter Souther	0.378	"	75.00	72.00	75.00	0.00	0.00	75.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
4	Agnes Lick Cunningham, et al	0.227	"	45.00	43.00	45.00	0.00	0.00	45.00	0.00	0.00	QCD	---	---	---	---	---	---	---	
5-6	J. William Hix, et al	3.725	"	1053.00	999.00	653.00	0.00	400.00	1053.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	Total includes $15.50 Misc. Fees
7	State of Colorado	11.661	"	330.00	282.00	365.50	0.00	1150.00	1515.50	0.00	0.00	R/D								
8 & 9	Robert T. Alexander	0.470	"	2622.00	2459.00	872.00	0.00	2128.00	3000.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
10-11 & 12	Chas. F. Jacobs	1.699	"	621.00	544.00	241.00	0.00	459.00	700.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
13	Clarence H. Gibson, Ethel L. Gibson, et al	1.195	"	120.00	120.00	120.00	0.00	0.00	120.00	0.00	T.D.	W.D.	---	P.R.	---	---	---	---	---	
14	W. W. Williams	0.283	"	35.00	28.00	35.00	0.00	0.00	35.00	0.00	0.00	W. D.	---	---	---	---	---	---	---	
15	D. Lewis Williams	0.443	"	55.00	44.00													100.00		Suit Pending
16	Loy Mock, et al	0.725	"	73.00	73.00	88.00	0.00	0.00	88.00	0.00	T.D.	W.D.	---	P.R.	---	---	---	---	---	Total includes $15.00 for Partial Release
17	C. P. Reed, et al	0.831	"	83.00	83.00	83.00	0.00	0.00	83.00	0.00	Mtg.	W.D.	---	P.R.	---	---	---	---	---	
18-21 & 22	Estate of Edna N. Davis, Decd., et al	1.273	"	1420.00	1295.00	120.00	0.00	1300.00	1420.00	0.00	T.D.	W.D.	---	P.R.	---	---	---	---	---	
19	Al C. Williams, et al	0.330	"	25.00	25.00	40.00	0.00	0.00	40.00	0.00	T.D.	W.D.	---	P.R.						
20	Mace E. Davis, et al	0.319	"	225.00	200.00	25.00	0.00	200.00	225.00	0.00	0.00	W.D.	---	---	---	---	---	---	000	
23	Fred W. Stokes, et al	0.370	"	37.00	27.00	37.00	0.00	0.00	37.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
24	Floyd Kinian, et al	3.151	"	478.00	396.00	318.00	0.00	175.00	493.00	0.00	T.D.	W.D.	---	P.R	---	---	---	---	---	Total includes $15.00 for Partial Release
25	Benton Blackburn et ux	2.751	"	155.00	135.00	135.00	0.00	40.00	175.00	0.00	8.00	W.DD	---	---	---	---	---	---	---	
26	D. L. Madison, et al	0.111	"	25.00	25.00	25.00	0.00	0.00	25.00	0.00	0.00	W.D.	---	---	---	---	---	---	---	
27	A. E. Patterson, et al	0.158	"	25.00	25.00	25.00	0.00	0.00	25.00	0.00	T.D.	QCD	---	P.R.	---	---	---	---	---	
28	R. E. Gross, et al	0.365	"	37.00	25.00	37.00	0.00	0.00	37.00	0.00	T.D.	W.D.	---	P.R.	000	---	---	---	---	
	TOTAL FORWARD	38.934		7813.00	7097.00	3438.50	0.00	6027.00	9465.50									100.00		

COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500001687

Description:
ROW Plans 11X17

Route # and Mile Points:
SH 145

Originating Office:

ROW/Survey

File Name:
F 020-1(2)_ROW(.PDF)

Box Location:
27 of 38

For assistance, or to request changes to this form,
please email helpdesk@msimaging.com.

MOUNTAIN STATES IMAGING

RECEPTION#: 832718, 02/28/2012 at
09:21:50 AM, 1 OF 28, ROW R $146.00
FRANCINE TIPTON-LONG, MONTROSE
COUNTY, CO CLERK AND RECORDER

Notice of Colorado Department of Transportation (CDOT) Right of Way (ROW) Location

TO ALL PERSONS TAKE NOTICE:

PURPOSE – The purpose of this document is to provide general notice to the public that CDOT was granted a Highway Right of Way (ROW) by public and private parties from approximately 1950 to 1955. Documents related to this ROW may or may not have been recorded in the Montrose County or San Miguel County Clerk and Recorders office at the time of the Colorado Department of Highways ROW project. The ROW plan showing the ROW location was not recorded. Rather, the ROW plan sheets have been retained by the CDOH/CDOT. This Notice Document is to be recorded in the Montrose County and San Miguel County Clerk and Recorders office to provide notice of the CDOT ROW locations.

ROW LOCATION – The ROW are described as Parcels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54 Rev., and 55, as shown on the attached "Exhibit A" (27 pages).

These parcels are located within the CDOT State Highway 145 alignment and some are within the Townsite of Redvale, CO; and within the following Townships and Ranges:

- Montrose County Township 45 North, Range 14 West, Sections 3, 4, 5, 6, 9, 10, 11, 12, 13, and 14, N.M.P.M. ;
- Montrose County Township 45 North, Range 13 West, Sections 7, 8, 16, 17, and 18, N.M.P.M.
- San Miguel County Township 45 North, Range 13 West, Sections 16, 21 and 22, N.M.P.M.

Full sized copies of Exhibit A are also retained in the CDOT survey offices located at 3803 North Main Avenue; Durango, CO 81301.

TOWN OF REDVALE, Montrose County – Portions of the CDOT ROW include parts of streets and alleys within the Town of Redvale in Montrose County. Any vacation of streets and alleys is subject to CDOT's ownership of the ROW as shown on Exhibit A.

RECORDED BY – This Notice is recorded by CDOT; and is recorded as a Notice to All Persons (To Whom It May Concern).

MEMORANDUM

DEPARTMENT OF TRANSPORTATION

Right of Way Services
R/W Plans & Surveys Unit
4201 East Arkansas Avenue
Denver, Colorado 80222-3400
(303) 757-9837
(303) 757-9305 (Direct Line)
(303) 757-9820 (FAX)
E-mail: douglas.w.bennett@dot.state.co.us

DATE: July 16, 1999

TO: Randy Crumbaugh
Region 5

FROM: Doug Bennett
Right of Way Services

SUBJECT: Resolution - State Highway 145

The attached resolution of the State Highway Commission, number 25-C concerning the abandonment of a portion of State Highway 145, was adopted on May 19, 1952.

Let me know if you need more information.

21-C ... be relocated to follow the alignment of Forest Project No. 55 A-2, and

BE IT FURTHER RESOLVED, that all portions of the old highway relocated by the construction are hereby abandoned as a part of the State Highway System.

The adoption of the resolution was moved by Mr. Bailey, seconded by Mr. Cosgriff, and duly carried.

RES. NO. 22-C — BE IT RESOLVED, that State Highway No. 4 in Garfield and Mesa Counties be relocated to follow the alignment of Federal Aid Primary Project No. F 001-1(3), and

BE IT FURTHER RESOLVED, that all portions of the old highway relocated by the construction are hereby abandoned as a part of the State Highway System.

The adoption of the resolution was moved by Mr. Jorgensen, seconded by Mr. Bash, and duly carried.

RES. NO. 23-C — BE IT RESOLVED, that State Highway No. 3 in Weld County be relocated to follow the alignment of Federal Aid Primary Project No. F 006-1 (3), and

BE IT FURTHER RESOLVED, that all portions of the old highway relocated by the construction are hereby abandoned as a part of the State Highway System.

The adoption of the resolution was moved by Mr. Bailey, seconded by Mr. Sinclair, and duly carried.

RES. NO. 24-C — BE IT RESOLVED, that State Highway No. 149 in Rio Grande and Mineral Counties be relocated to follow the alignment of State Project No. SP (23-62) 149-502, and

BE IT FURTHER RESOLVED, that all portions of the old highway relocated by the construction are hereby abandoned as a part of the State Highway System.

The adoption of the resolution was moved by Mr. Burress, seconded by Mr. Jorgensen, and duly carried.

RES NO. 25-C — BE IT RESOLVED, that State Highway No. 145 in San Miguel and Montrose Counties be relocated to follow the alignment of Federal Aid Primary Project No. F 020-1 (2), and

BE IT FURTHER RESOLVED, that present designated State Highway No. 145 from its junction with the new alignment of State Highway No. 145, thence extending southerly and easterly to a junction with State Highway No. 352, and from another junction with the new alignment of State Highway No. 145, north of Norwood, thence easterly and southerly to a junction with the new alignment are hereby abandoned as a part of the State Highway System.

The adoption of the resolution was moved by Mr. Jorgensen, seconded by Mr. Burress, and duly carried.

R Crumbaugh

September 1, 1983

To Whom It May Concern:

We, Tom and Esther Kelly, hereby lease to Mr. and Mrs. Glen Brice a corner of our property that the road cut off from our property at Redvale, Colorado. Description: NE 1/4 SE 1/4 Section 9; E 1/2, N 1/2 SW 1/4 Section 10, SE 1/4 NW 1/4 Section 15, Township 45 North, Range 14 West, N.M.P.M. The corner we are leasing to the Brices is the North East Corner and is just across the road from the KOA campground.

This Lease is for a term of 99 years at a total lease cost of $100.00 which has been paid in full as of the above date. This lease is binding to heirs of Tom and Esther Kelly or of the sale of property.

Tom F. Kelly
Tom F. Kelly

Esther Kelly
Esther Kelly

State of Colorado
County of Montrose

Above document signed before me at Nucla, Colorado on Sept 7- 1983 by Tom F. Kelly & Esther Kelly - both known to me.

Notary Public

My Commission Expires
Nov 5- 1985

RECEIVED
JUL 0 2 2001
COLORADO DEPT. OF TRANSPORTATION
REGION 5
PROGRAM ENGINEER

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F020-1(2)
STATE HIGHWAY NO. 145
IN SAN MIGUEL & MONTROSE COUNTIES

DISTRICT 9 — COLO F020-1(2)

Rev 1-17-51, C&M Std M-19 d in Index.
Rev. 2-28-51 ELK Std M-101-C in Index
Rev 7-19-51, J C R for W.P. Ext.

TITLE SHEET

INDEX OF SHEETS

SHEET NO. 1	SKETCH MAP, TITLE PAGE & TABULATION OF LENGTH.	
2	TYPICAL SECTIONS, SUMMARY OF APPROXIMATE QUANTITIES & GENERAL NOTES.	
3	SURFACING, R.O.W. MARKERS, FENCING REQUIREMENTS, BALLAST & SELECTED BORROW TABULATION & MARKER POSTS.	
4-8	LIST OF STRUCTURES.	
9	STANDARD LETTERS & FIGURES FOR YEAR NUMBERS & STRUCTURE NUMBERS.	M-10-6
10	STANDARD MARKER POSTS.	M-7-B
11	STANDARD HEADWALLS AND APRONS FOR C.M.P. CULVERTS.	M-10-2-G
12	STANDARD C.M.P. SIPHON WITH METAL APRONS FOR INLETS & OUTLETS.	M-12-4-A
13	STANDARD TIMBER GUARD POSTS.	M-19-B
14	STANDARD WIRE FENCE WITH WOODEN POSTS.	M-24-H
15	STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES.	M-1-B
16	STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT & WIDENING AT BRIDGES & AT CREST OF GRADES.	M-2-DM
17	STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS.	M-2-DS
18	STANDARD TYPES OF DITCHES AND CONSTRUCTION METHODS.	M-10-F-G
19-36	ALIGNMENT PLAN AND PROFILE.	
37-115	CROSS SECTIONS.	
116	SUMMARY OF EARTHWORK QUANTITIES & TABULATION OF INTERCEPTING DITCHES.	
18A	SPECIAL 6'x 7' CONCRETE BOX CULVERT FOR STOCK PASS	M-101-C
3A	SURFACING, R.O.W. MARKERS, FENCING REQUIREMENTS, BALLAST & SELECTED BORROW, & MARKER POSTS FOR EXTENSION.	
8A	LIST OF STRUCTURES FOR EXTENSION.	
36A-36B	PLAN-PROFILE OF EXTENSION.	
117-133	CROSS SECTIONS OF EXTENSION.	

TABULATION OF LENGTH & DESIGN DATA

STATION	ROADWAY 28 FT. LIN. FT.	ROADWAY 26 FT. LIN. FT.	
12+66.9 = BEGIN F 020-1(2) = 150+45.7 on F.A.P. 103+15,045.7 FT. S.E. of Beg. F.A.P. 103	14,754.1		
160+21.0 Bk = 161+13.9 Ah. } EQUATION	6,386.1		
225+00		3000	
228+00		30,113.0	
529+15 = END F 020-1(2) (Orig)		4,185.0	
571+00 = END F 020-1(2) (Ext.)			
TOTALS	21,140.2	34,600.0	

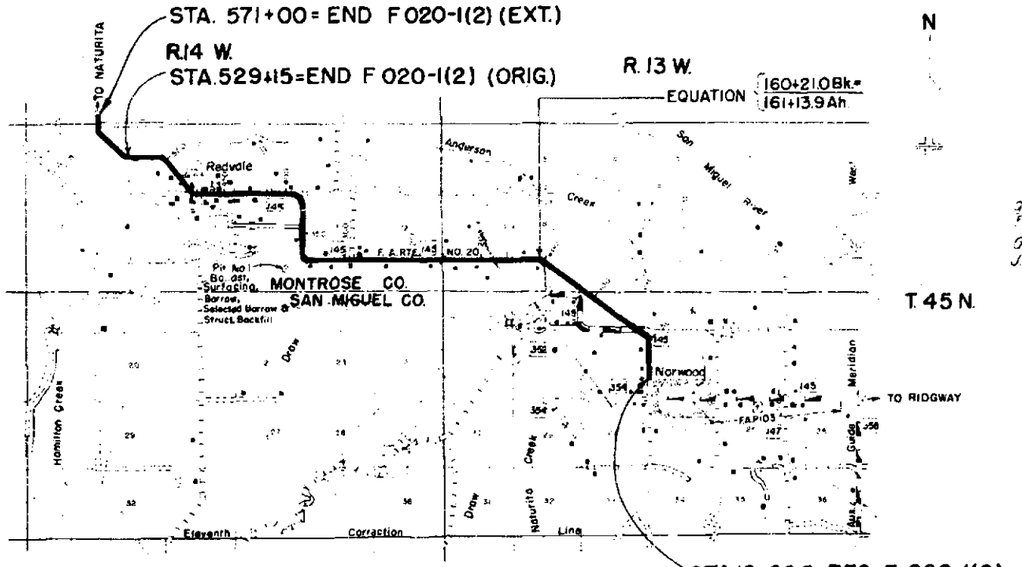
SUMMARY	LIN. FT.	MILES
28 FT. ROADWAY	21,140.2	4.004
26 FT. ROADWAY	34,600.0	6.553
TOTAL F020-1(2)	55,740.2	10.557

DESIGN DATA

Maximum Degree of Curve -	6°00'
Maximum Grade -	6.20%
Minimum N.P.S.D. - Horizontal -	730'
Minimum N.P.S.D. - Vertical -	315'
Maximum Design Speed -	40 M.P.H.

SCALES OF ORIGINAL TRACINGS

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 [illegible]	[illegible] ED ROAD
GROSS LENGTH OF PROJECT	51,555.2 FT. = 9.764 MILES (ORIG.)
NET LENGTH OF PROJECT	
GROSS & NET LENGTH OF EXTENSION	4,185.0 FT. = 0.793 MILES
TOTAL	55,740.2 FT. = 10.557 MILES



CONVENTIONAL SIGNS

CENTER LINE	
RIGHT OF WAY	
SECTION LINE	
QUARTER SECTION LINE	
CITY LIMITS	
BARBED WIRE FENCE	
COMBINATION FENCE	
TELEPH. & TELEG. LINE	
POWER LINE	
PRESENT ROAD (PLAN SHEETS)	

NOTE:

It is recommended that bidders on this Project go over the plan details & in the office of the Colorado Field Representative of the Bureau of Public Roads

G. F. McNicholas, Resident Engineer, Durango, Colorado
J.E. Casey, Construction Engineer, Durango, Colorado

HIGHWAY DEPARTMENT
STATE OF COLORADO

RECOMMENDED FOR APPROVAL:
Jas. S. Bell — ASSISTANT ENGINEER — 10-6-50 DATE

APPROVED:
[signature] — STATE HIGHWAY ENGINEER — 10-6-50 DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL:
DISTRICT ENGINEER — DATE

APPROVED:
DIVISION ENGINEER — DATE

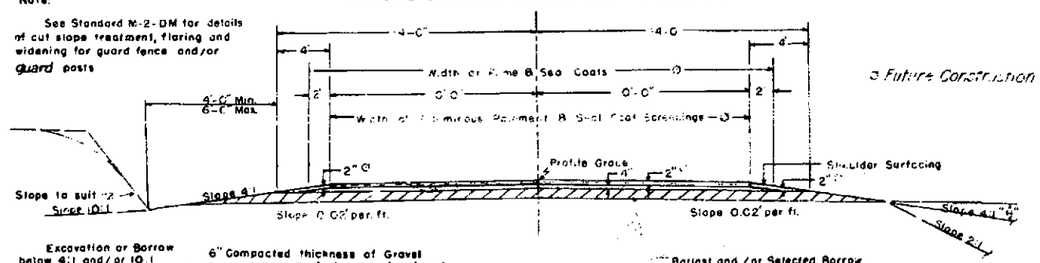
Rev. 1-17-51, C.G.M. 108, 92 and 95yb in Summary
Rev 7-19-51, J.C.R - For W.O. Ext.

FED. ROAD DIV.	NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8		COLO	F020-1(2)	2	

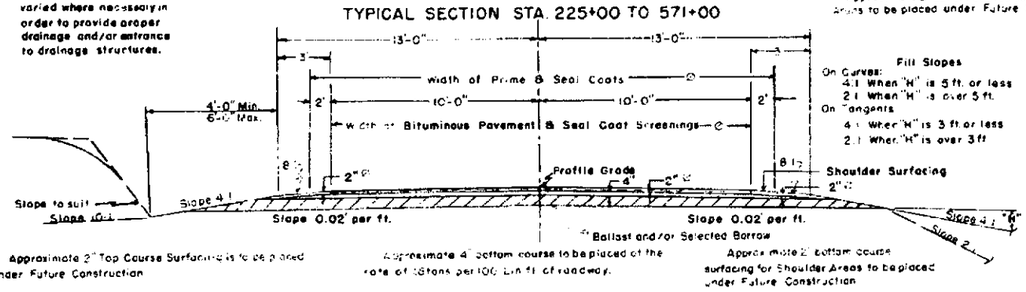
Rev. ... M.-1-... 53L, 53C & 53E

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

TYPICAL SECTION STA. 12+66.9 TO 225+00



TYPICAL SECTION STA. 225+00 TO 571+00



GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1948

All quantities on preliminary plans are to be considered approximate only.

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

All corrugated Metal Pipe Cross Culverts shall be laid with Metal Aprons on each end unless otherwise noted on plans.

All concrete used on this project shall be "Air Entrained Concrete."

Culverts projecting from embankments shall be covered with approximately 6 inches of embankment material in such a manner that a minimum of pipe shall be exposed in the completed work. This shall be accomplished by warping embankment slopes around and adjacent to the culvert

Present Structures on this project that are not listed to be removed or extended shall be left in place and the roadway shoulder, where necessary, shall be altered to fit the structure.

Except as otherwise noted on the plans, payment for overhaul will be based on measurement along the centerline of the project.

Right of Way fences, including line posts, shall be constructed approximately six (6) inches inside the boundary of the Highway Right of Way as shown on the plans.

Approximate location and quantities involved in construction of intercepting ditches are tabulated on summary of earthwork quantities sheet.

All curves are to be superelevated and widened as provided by the Standard Superelevation sheet included with the plans unless otherwise noted on the plans

It is estimated the old road is to be obliterated at the following locations: 58+ to 64+, 155+ to 158+, 334+ to 338+, 387+ to 392+, 471+ to 473+ & 499+ to 507+

The construction of road approaches shall follow Standard M-2-DM (Sheet No. 16) except at locations where present side drains are to be left in place. At these locations the minimum width of 16 ft and/or 20 ft. radius shall be reduced to fit the side drain in place.

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	ITEM	UNIT	28 FT ROADWAY	26 FT ROADWAY	W.O. EXT 529+ TO 571+00	PROJ. TOTALS
10a	Clearing & Grubbing Entire Project	Lump Sum	Project	Project	Project	•
11a	Removal of 43 Structures	Lump Sum				•
11b	Removing Stone Sidewalk	Sq. Ft.	100			100
12a	Removing Fence	Lin. Ft.	2270	3730		6000
12b	Removing and Rebuilding Fence	Lin. Ft.	1900		200	2100
13c	Unclassified Excavation	Cu. Yd.	21400	21400		42800
13d	Unclassified Ditch Excavation	Cu. Yd.	1700	600	100	2400
13x	Selected Borrow	Cu. Yd.	18450	44950	1200	64600
14a	Dry Rock Excavation (Str.)	Cu. Yd.	20	15	5	35
14b	Dry Common Excavation (Str.)	Cu. Yd.	295	285	15	595
14c	Wet Rock Excavation (Str.)	Cu. Yd.	10	10	5	25
14d	Wet Common Excavation (Str.)	Cu. Yd.	125	125	10	260
16a	Structure Backfill (Class 1)	Cu. Yd.	425	460	60	945
16d	Mechanical Tamping	Hr.	160	100	20	280
17ax	Rolling with Tamping Roller (2 Unit)	Hr.	100	95	20	215
17ay	Rolling with Tamping Roller (4 Unit)	Hr.	55	45		100
17b	Rolling with Flat Wheeled Roller	Hr.	270	370	60	700
17dx	Furnishing Tamping Roller (2 Unit)	Each	0.5	0.5		1.0
17dy	Furnishing Tamping Roller (4 Unit)	Each	0.5	0.5		1.0
17e	Furnishing Flat Wheeled Roller	Each	0.4	0.6		1.0
17g	Wetting	M. Gal.	2150	2330	180	4660
5a	Station Yard Overhaul	Sta. Yd.	6350	2...	...	20450
18b	Yd Mile Overhaul	Yd. Mi.	2730	1...	...	4...
18c	Ton Mile Overhaul	Ton Mi.	1...	1...	...	2...
23a	Ballast (Class 1)	Ton	1...	1...	...	2...
26c	Gravel or Crushed Rock Surfacing (Grading C)	Ton	2...	2...	...	5...
46a	Class "A" Concrete	Cu. Yd.	4			4
46b	Class "B" Concrete	Cu. Yd.	4			4
47	Reinforcing Steel	Lb.	4 1...			2...
51a	Relaying 15" Pipe	Lin. Ft.	36			36
51c	Relaying 18" Pipe	Lin. Ft.	20	20		40
53a	15" Corrugated Metal Culvert Pipe	Lin. Ft.	2...	4...	...	...
53b	18" Corrugated Metal Culvert Pipe	Lin. Ft.	621	822	...	...
53c	24" Corrugated Metal Culvert Pipe	Lin. Ft.	572	400	...	...
53e	36" Corrugated Metal Culvert Pipe	Lin. Ft.		63		2...
63	Grouted Rubble Slope & Ditch Paving (12" Inch)	Sq. Yd.	10			1...
76a	Combination Wire Fence with Treated Wooden Posts	Lin. Ft.	19600	30...	...	2...
76n	Driveway Gates	Each	16	2	...	2...
76r	Walk Gates	Each				
81b	Right of Way Markers	Each	16	24	6	46
85b	Trash Guards for 18" Siphons	Each	1			1
92	Timber Guard Posts	Each	8...	20...	3...	3...
95a	Metal Aprons for 15" Corrugated Metal Pipe Culverts	Each		2		2
95b	Metal Aprons for 18" Corrugated Metal Pipe Culverts	Each	23	22		45
95c	Metal Aprons for 24" Corrugated Metal Pipe Culverts	Each	4	8		16
95yb	Metal Aprons for 18" Corr. Metal Pipe Culverts (for Siphon)	Each	1			1
95xb	Metal Aprons for 22"x13" C.M.P. Arch Culverts	Each		8		8
95xc	Metal Aprons for 29"x18" C.M.P. Arch Culverts	Each	2			2
134b	22"x13" Corrugated Metal Pipe Arch Culverts	Lin. Ft.		170		170
134c	29"x18" Corrugated Metal Pipe Arch Culverts	Lin. Ft.	46			46
134d	36"x22" Corrugated Metal Pipe Arch Culverts	Lin. Ft.		175	65	240
	STATE FORCES					
81a	Project Markers	Each	1	1		2
	FORCE ACCOUNT					
	Obliterating Old Road	Lump Sum	Project	Project	Project	•
	FORCE ACCOUNT - NON FEDERAL AID					
	Relocating Power Poles (Work by San Miguel Power Co.)	Lump Sum				•
	RIGHT of WAY					
	Right of Way Including Moving of Buildings & Appurtenances	Lump Sum				•

FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 020-1(12)	3	

Rev 1-17-51. C.G.M., Changed Tabulation to Timber Guard Posts

SURFACING PLAN

It is estimated that material for Gravel Surfacing for the project is available in the vicinity of the pit indicated in the following tabulation. Estimated quantities involved in this operation are shown below.

Alteration of the Surfacing Plan as here outlined will be allowed only on written permission from the Department.

MATERIAL TO BE PLACED	SOURCE	AVAIL.	QUANTITY TONS USED BOTTOM COURSE GRADING - C	OVERHAUL TON MILES BOTTOM COURSE
Approach to Project			16.5	950
12+66.9 to 160+21.0 Bk. 161+13.9 Ah. to 225+00	Pit No 1 NE¼ Sec 15, T 45 N, R 14 W.	Ample	7230 3123	3,334 1207
Estimated for Road Approaches			465	1,749
225+00 to 228+00	[illegible]		146	248
228+00 to 316+20 316+20 to 358+30 358+30 to 529+15	[illegible] [illegible] [illegible]		4234 2045 5,177	3536 Free Haul 13,191
Estimated for Road Approaches			797	929
Approach to Project			25	81
TOTAL 28' ROADWAY			10,989	41,330
TOTAL 26' ROADWAY			15,424	17,985

R.O.W. MARKERS

STATION	SIDE	NO.
28' RDWY		
15+00	[illegible]	
21+00	[illegible]	
28+00	[illegible]	
94+00	[illegible]	
121+00	[illegible]	
147+00	[illegible]	
[illegible]	[illegible]	
26' RDWY		
[illegible]	[illegible]	
153+00	[illegible]	
279+00	[illegible]	
304+00	[illegible]	
330+00	[illegible]	2
357+00	[illegible]	
384+00	[illegible]	
410+00	[illegible]	2
[illegible]	[illegible]	
436+00	[illegible]	2
[illegible]	[illegible]	
[illegible]	[illegible]	
TOTAL 28' ROADWAY		15
TOTAL 26' ROADWAY		24

FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE LIN. FT.	REMOVE & REBUILD FENCE LIN. FT.	BUILD COMB. WIRE FENCE * LIN. FT.	GATES WALK	GATES DRIVE
28' RDWY						
[illegible] to 54+65	[illegible]	[illegible]				
54+30 to 65+30	Lt & Rt	2300				
64+10 to 66+75	Lt & Rt	2350				
64+10	X	160				
50+00 to 65+30	Lt.			1470		
64+10 to 153+95	Rt.			6910		
66+75 to 113+00	Lt.			4650		
117+80 to 152+60	Lt.			3480		
153+40 to 158+80	Lt.			490		
154+40 to 160+00	Rt.			590		
113+00 to 117+80	Lt.		480			
181+30 to 194+85	Lt.		1360			
94+40	Lt & Rt.					2
110+00	Lt & Rt.					2
118+00	Lt.					1
119+40	Rt.					1
123+75	Lt & Rt.					2
132+00	Lt & Rt.					2
140+00	Lt & Rt.					2
118+35	X	150				
122+80	X	200				
133+10	X	120				
153+40 to 158+80	Lt & Rt.	620				
157.20	Lt.				1	
329+50 to 346+20	Rt.			1600		
331+70 to 341+70	Lt.			1050		
333+50	Lt. & Rt.					2
381+50	Lt.					1
332+75	X	450				
343+00	X	440				
382+00	X	460				
391+50	X	310				
26' RDWY						
318+50 to 393+50	Lt.			1450		
383+10 to 393+30	Rt.			1070		
436+50 to 487+00	Rt.			450		
496+00 to 502+25	Lt.			610		
503+10 to 511+00	Lt.			770		
496+00 to 502+80	Lt. & Rt.	700				
502+50	X	120				
503+30	X	130				
503+40 to 507+00	Lt. & Rt.	700				
507+00 to 511+00	Lt.	400				
TOTAL 28' ROADWAY		2,260	1,840	19,590	1	12
TOTAL 26' ROADWAY		3,710		7,000		3

* 1.33 Date Nails are required (State Forces)

* It is estimated that extra posts, if needed, are obtainable from the removed fence at various locations on the project.

TIMBER GUARD POSTS

28' ROADWAY STATION	SIDE	SPACING	NO.	26' ROADWAY STATION	SIDE	SPACING	NO.
[illegible]				[illegible]			
20+24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21+24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21+50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40+50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
43+50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
49+05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
51+05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
56+00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
58+90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95+00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
97+00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]

SURFACING PLAN

MATERIAL TO BE PLACED	TYPE AVAIL.	QUANTITY TONS USED BOTTOM COURSE	QUANTITY TONS USED TOP COURSE	TONNAGES BOTTOM COURSE	TONNAGES TOP COURSE
529+15 to 531+00	Type B	Roadway	2016	1306	
	Mix	Approx.	90	726	
	Sacks	Appr.			
	Fuses	to Proj.	25	105	
	Dynamite				
	Subway				
	Mix to				
	Sta 343+00				
	Total		2131	2137	

R.C.W. MARKERS

STATION	SIDE	NO.
539+92.69 (P.S.T.)	Lt & Rt.	2
553+36.2 (P.T.S.)	Lt & Rt.	2
569+09.6 (P.S.T.)	Lt & Rt.	2
TOTAL		6

FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE	REMOVE & REBUILD FENCE	BARB WIRE FENCE	WOVEN WIRE FENCE
531+00 to 539+00	Lt. & Rt.		300		
555+00 to 568+00	Lt. & Rt.		300		
TOTAL 28' ROADWAY					
TOTAL 26' ROADWAY					
TOTAL 24' ROADWAY EXTENSION			2130		

KEY PLAN

MATERIAL TO BE PLACED	TYPE	QUANTITY TONS USED TOP COURSE	TONNAGES TOP COURSE
Extra on Sta 537+00	Sand Blotter Sec 5 -16N R.4W. Thru Calendar, 7M. to Sta 343+00	4"	2542 9,285
	TOTALS		2542 9,285

MATERIAL TO BE PLACED	TYPE	QUANTITY TONS USED TOP COURSE	TONNAGES TOP COURSE
529+15 to 571+00	Sand Blotter 15 & Sec 15 -15N R.4W. 7M. to Sta. 503+00	4"	2511 9,330
Allowance for irregularities in Subgrade			251 917 25
	TOTALS		2762 10,247

SHEET TOTALS		
	EXCAVATION	CU. YDS.
	EXCAVATION	CU. YDS.
	EMBANKMENT	CU. YDS.

LIST OF STRUCTURES

			Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.
525-1	Miscellaneous Items as Per Sh. 63 and New Approaches					
552-14	Cross Culvert Pipe 24" x 44' C.E.C. Remove Head Wall	1	20		11	12
552-14	Cross Culvert Pipe 24" x 40' C.E.C.		10			10
552-14	Pipe Culvert Extension 24" C.E.C.	1		45	3	5
552-66	Remove Headwall & Extend 15" C.M.P.					
564-...	Concrete Slope Paving		10			
564-...	Concrete Apron 12'-3" x 4'-6" C.E.C. Sides Flare 4'		12		3	7
564-22	Remove Headwall & Extend 15" C.M.P. 14' L & 18' R	1			3	5
564-...	Open Ditch Change F.H.W-2			80		
564-...	Concrete Paving from ℄					F.O.W. Item
564-22	Remove Head Wall & Extend 15" C.M.P. 14' R	1			5	11
564-562	Open Ditch Change F.H.W-2			22		
564-...	Concrete Apron 12'-3" x 4'-6" C.E.C. Sides Flare 4'		20		3	5
564-...	Remove Head Wall & Extend 15" C.M.P. 14' L & 18' R	1			3	6
	Miscellaneous Items					
PROJECT TOTALS		5	90	147	31	51

	Excavation Cu. Yds.	Excavation Area	Embankment Area	Embankment Cu. Yds.
	20			20
	10			10
	10			10
	12			10
	20			20
	90	1103	28	64

SHEET TOTALS | EXCAVATION Cu. Yds. | EXCAVATION Cu. Yds. | EMBANKMENT Cu. Yds.

FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
8	COLO.	F 020-1(12)	4	

Rev. 11-15-57: R.S.M. - C.M.P. Sta. 119+40

LIST OF STRUCTURES

STATION	DESCRIPTION	REMOVE STRUCT.	EXCAVATION			STRUCTURAL EXCAVATION	STRUCTURE BACKFILL	MECH. TAMP.	GRAVEL OR CR. ROCK SURF.	CONCRETE	CORRUGATED METAL CULVERT PIPE				METAL APRONS FOR C.M.P. CULVERTS (TYPE "K")			CORR. METAL PIPE ARCH CULVERTS				METAL APRONS FOR C.M.P. ARCH CULVERTS (TYPE "L")				MISCELLANEOUS
			CU. YDS.			CU. YDS.	CU. YDS. CLASS			CU. YDS. CLASS	LIN. FT.				EACH			LIN. FT.				EACH				
		NO.	UNCL.	EMB.	UNCL. DITCH	A	1	HR.	TONS	"B"	15"	18"	24"	36"	15"	18"	24"	22"x13"	29"x18"	36"x22"		22"x13"	29"x18"		
12+66.9	Project Marker																								
12+66.9	Approach to Project																								1-Project Marker (State Forces)
16+20	Road Approach Lt.			5					10																
29+10	Side Drain, Road Approach & Ditches Rt.	1	10		5	10	11		10				32												
31+30	Remove 15"x18" C.M.P. with Headwalls																								
33+30	Road Approach Lt.			10					10																
	Side Drain, Road Approach & Ditches Rt.		10		5	10	11		10				32												
	Relay 15"x18" C.M.P. as Side Drain Rt. of Sta. 119+40.																								
36+50	Cross Culvert & Ditches. No Hdwls.				5	10	15						40												
42+50	Cross Culvert & Ditches. No Hdwls.				5	5	16						48												
	Relay 18"x26" C.M.P. as Side Drain Rt. of Sta. 54+50.																								
43+20	Road Approaches Rt. & Lt.			30					20																
44+60	Road Approach Lt.			10					10																
49+65 to 54+00	Ditch Change Lt.				40																				
50+65	Cross Culvert with Type "K" Hdwls & Ditches				5	20	16			3.3			48												
54+00	Cross Culvert and Outlet Ditch.				5	10	11					44				2									
54+50	Relay 18"x32" C.M.P. (26' from 42+50 and 26' from 63+90) as Side Drain Rt, Road Appr Rt.			60		5	14		20			41													Relay 52' of 18" Pipe
63+90	Cross Culvert & Outlet Ditch No Hdwls.				10	5	18						56												
	Relay 18"x26" C.M.P. as Side Drain Rt. of Sta. 54+50.																								
66+25	Road Approach Lt.			20					10																
67+00	Cross Culvert & Ditches. No Hdwls.				10	10	16						50												
74+50	Cross Culvert & Ditches. No Hdwls.				5	5	16						48												
83+50	Cross Culvert & Ditches. No Hdwls.				5	5	17						52												
89+00	Cross Culvert & Ditches. No Hdwls.				5	5	17						52												
94+40	Side Drain & Ditches Rt. Road Appr. Rt. & Lt.			100	5	5	7		30			26													
95+06	Cross Culvert & Ditches.				5	5	14						42				2								
97+90	Cross Culvert & Ditches.				5	10	18						54				2								
101+70	Cross Culvert & Ditches.				5	5	9					36				2									
104+70 to 108+50	Ditch Change Lt. (Raised Ditch)			170	20																				
106+50	Cross Culvert, Ditches & C.M.P. under Raised Ditch Lt. Grouted Rubble Slope and Ditch Paving Lt. No Hdwls.				15	10	20						48												12 S.Y. Y.D. Grouted Rubble Slope and Ditch Paving (12" Thick)
110+00	Road Approaches Rt. & Lt.		60						35				14												
112+00	Cross Culvert & Ditches. No Hdwls.				5	5	17						52												
118+00	Road Approach Lt.			20					15																
119+40	Relay 15"x18" C.M.P. (from 33+30) as Side Drain Rt. Road Approach Rt. & Ditches.			20	5	5	5		15																Relay - 18" Pipe
119+60	Cross Culvert and Ditches.				5	5	16						48				2								
123+50	Cross Culvert and Ditches.				10	10	10					40				2									
123+75	Road Approaches Rt. & Lt.			40					30																
124+00 to 133+50	Ditch Change Rt.				160																				
127+00 to 161+80	Ditch Change Lt.				140																				
127+15	Cross Culvert and Ditches.				5	5	10					38				2									
131+00	Cross Culvert and Ditches.				15	10	10					40				2									

28' ROADWAY

CONT'D ON SHEET NO. 5

FED. ROAD DIV. NO	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 020-1(2)	5	

Rev. 11-12-30 R.S.M.- C.M.Ps Sta 137+33, 139+77, 139+85, 167+30, 169+00 & 169+75.
Rev. 12-20-30 R.S.M.- C.B.C. Sta 138+10

LIST OF STRUCTURES

CONT'D FROM SHEET NO. 4

STATION	DESCRIPTION	REMOVE STRUCT. NO.	EXCAVATION CU. YDS. UNCL.	EXCAVATION CU. YDS. EMBANK	EXCAVATION CU. YDS. UNCL. DITCH	STRUCT. EXCAV. CU. YDS. Δ	STRUCTURE BACKFILL CU. YDS. CLASS 1	MECH. TAMP. HR.	GRAVEL OR CR. ROCK SURF. TONS	CONCRETE CU. YDS. CLASS "A"	CONCRETE CU. YDS. CLASS "B"	REINF. STEEL LBS.	CORRUGATED METAL CULVERT PIPE LIN. FT. 15"	18"	24"	36"	METAL APRONS FOR C.M.P. CULVERTS (TYPE "M") EACH 15"	18"	24"	CORR. METAL PIPE ARCH CULVERTS LIN. FT. 22"x13"	29"x18"	36"x25"	METAL APRONS FOR C.M.P. ARCH CULVERTS (TYPE "L") EACH 22"x13"	29"x18"	MISCELLANEOUS
132+00	Side Drains & Road Approaches Rt & Lt			20		10	14		30					26												
137+33	Cross Culvert and Ditches.				5	5	16							26												
138+10	6'-7"x34" C.B.C., Ramps (W=12') & Outlet Ditch		50		20	75	70		18		41.29		397.5			58			2							
139+77	Cross Culvert and Ditches				10	10	12							40					2							
139+85	Cross Culvert; C.M.P. over Irrigation Ditch Lt. & Ditches.				10	10	14							38					2							
														8												
140+00	Side Drain Lt. Road Approaches Rt & Lt			20		10	7		25					26												
145+00	Cross Culvert and Ditches.				10	5	13									38			2							
150+10	Cross Culvert and Ditches				5	5	13									40			2							
150+50 to 151+80	Adjust Barrow Ditch Rt & Lt. to Drain Southeast			♦																						
151+60	Cross Culvert with Siphon Type Inlet, 1-Trash Guard at Inlet & Ditches (Rt)				30	25	11							©46				1								1-18"M.P.II Apron for Siphon, 1-R Trash Guard
153+10	Road Approach Lt			30					15																	
153+20	Cross Culvert and Ditches No Hdwls.				5	10	18									56										
153+80	Road Approach Rt.			30					10																	
153+50 to 160+00	Ditch Change Lt.				60																					
155+00	Cross Culvert and Ditches. No Hdwls.				5	5	18									56										
157+10	Cross Culvert and Ditches				10	10	10																			
157+80	Side Drain under Sidewalk Lt. Remove 1'x4'x6" W.F.C. & Portion of Stone Sidewalk Lt.	1				2	2							40					2							Rem. & Relay Stone Sidewalk
158+60	Relay 15"x15" C.M.P. Side Drain & Irrigation Ditch Lt. Road Apron Lt. Pembina W.F. Lt.	1		30		1	4		10																	Relay 1-15" C.M.P.
164+00	Cross Culvert and Ditches No Hdwls.				5	21	21									64										
166+75	Road Approach Lt			10					10																	
167+30	Rem. Hdwls & Extend C.M.P. 12" Lt. & Rt & Ditches.	1			5	5	5							∓ 12+1 10+1					2							
169+00	Cross Culvert and Ditches. Remove C.M.P. with Hdwls.	1			10	15	10							42					2							
169+75	Road Approach Rt			10					10																	
171+10	Road Approach Rt			10					10																	
176+00	Road Approaches Rt. & Lt.			12					20																	
181+35	Road Approaches Rt. & Lt.			20					20																	
183+90	Cross Culvert and Ditches. Remove 15'x26' C.M.P. with Headwalls	1			5	10	11							44					2							
187+02	Rem. Hdwls. and Extend C.M.P. 14" Rt & 14" Lt & Ditches. No Hdwls.	1			5	5	8							∓ 14+1 14+1												
188+75	Road Approach Lt.			5					10																	
202+50	Road Approach Lt.			5					10																	
202+70	Cross Culvert & Ditches. Rem. 24"x30" Siphon	1			10	10	15														46			2		
204+80	Road Approach Lt.			5					10																	
205+50	Road Approach Rt.			5					10																	
207+35	Extend Cross Culvert 4 Ft. & 8 Lt. & Ditches				5	10	5							∓ 4+1 8+1					2							
207+60	Road Approach Rt.			5					10																	
208+00	Road Approach Lt.			10					10																	
224+60	Side Drain Rt. Road Approach Rt. & Lt.			20		5	7		20					26												
	Mechanical Tamping for all C.M.Ps Under 48"							197																		

28' ROADWAY

CONT'D ON SHEET NO. 6

FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 020-1(2)	6	

LIST OF STRUCTURES

CONT'D FROM SHEET NO. 5

STATION	DESCRIPTION	REMOVE STRUCT. NO.	EXCAVATION CU. YDS. UNCL.	EXCAVATION CU. YDS. EMB.	EXCAVATION CU. YDS. UNCL. DITCH	STRUCTURAL EXCAVATION CU. YDS. A	STRUCTURE BACKFILL CU. YDS. CLASS I	MECH. TAMP. HR.	GRAVEL OR CR. ROCK SURF. TONS	CONCRETE CU. YDS. CLASS "B"	CORRUGATED METAL CULVERT PIPE LIN. FT. 15"	18"	24"	36"	METAL APRONS FOR C.M.P. CULVERTS (TYPE "K") EACH 18"	18"	24"	CORR. METAL PIPE ARCH CULVERTS LIN. FT. 22"x13"	29"x18"	36"x22"	METAL APRONS FOR C.M.P. ARCH CULVERTS (TYPE "L") EACH 22"x13"	29"x18"	MISCELLANEOUS
232+37	C.M.P. [illegible] Rem. [illegible] & W.B.C. Rt.	1				10	6						14										
233+35	Road Approach Rt.			5					1														
233+60	Side Drain [illegible]			15		15	5		1				32										
233+44	C.M.P. [illegible]					10	2						24										
245+25	Side Drain [illegible] Road Approach Lt. Rem. 15"x15" C.M.P. with Headwalls			5	5	10	7		1			24											
259+10	Cross Culvert and Ditches. Rem. 15"x15" C.M.P.					5	11											42			2		
259+75	Cross Culvert and Ditches. Rem. 15"x15" C.M.P. with Headwalls	1			5	1	14					14				2							
266+00	Road Approach Lt.			4					1														
267+25	[illegible] Rem. [illegible] with Headwalls	1			5	15	12						30				2						
275+50	[illegible] Rem. [illegible] C.M.P. Siphon				5	10	7											42			2		
275+25	Road Approach Lt.			5					1														
2+00	Rem. [illegible] Extend C.M.P. [illegible] & Ditches	1			10	5	4									2							
213+25	Road Approach Rt.			5																			
295+10	[illegible] Road Approach Rt.			1	1	5	1						12										
298+30	Road Approach Rt.			5																			
298+75	Road Approach Rt.			15					5														
299+91	Rem. Hdwl. & Extend 18" C.M.P. [illegible] & Ditches	1			5	5	1					12+1 8+1				2							
300+30	Road Approach Lt.			5					1														
308+05	Rem. Hdwls. & Extend 18" C.M.P. 5' Rt. & 6' Lt. & Ditches.	1			5	5	4					5+1 6+1				2							
308+25	Road Approach Rt.			5					1														
310+15	Rem. Hdwls. & Extend 18" C.M.P. 12' Rt. & 5' Lt. & Ditches	1			5	5	5					12+1 3+1				2							
313+45	Rem. Hdwls. & Extend 15" C.M.P. 4' Rt. & 4' Lt. & Ditches	1			5	5	3					12+1 6+1				2							
313+60	Road Approach Lt.			5					1														
319+90	Rem. Hdwls. & Extend 15" Side Drain 8' East & 8' West, Road Approach Rt.	1		15		3	4		1			6+1 3+1											
327+50	Road Approach Rt.			10					1														
328+25	Cross Culvert & Ditches. No Hdwls. Relay 18"x26" C.M.P. as Side Drain Rt. at Sta. 333+50.				5	10	6		1				50										
330+ to 334+ 333+50	Ditch Change Rt. Relay 16"x26" C.M.P. from Sta 328+25) as Side Drain Rt. Road Approaches Rt & Lt			100	50	5	7		1														Relay 26' of 16" Pipe
334+50	Cross Culvert and Ditches.				5	10	12						46			2							
334+50 to 335+50	Ditch Change Rt.				10																		

26' ROADWAY

CONT'D ON SHEET NO. 7

FED. ROAD DIST. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 020-1(2)	7	

Rev. 11-15-50 R.S.M.-C.M.P. Sta. 373+45.

LIST OF STRUCTURES

CONT'D FROM SHEET NO. 6

STATION	DESCRIPTION	REMOVE STRUCT. NO.	EXCAVATION CU. YDS. UNCL.	EXCAVATION CU. YDS. EMB.	EXCAVATION CU. YDS. UNCL. DITCH	STRUCTURAL EXCAVATION CU. YDS. Δ	STRUCTURE BACKFILL CU. YDS. CLASS	MECH. TAMP. HR.	GRAVEL OR CR. ROCK SURF. TONS	CONCRETE CU. YDS. CLASS "B"	CORRUGATED METAL CULVERT PIPE LIN. FT. 15"	18"	24"	36"	METAL APRONS FOR C.M.P. CULVERTS (TYPE "K") EACH 15"	18"	24"	CORR. METAL PIPE ARCH CULVERTS LIN. FT. 22"x13"	29"x18"	36"x22"	METAL APRONS FOR C.M.P. ARCH CULVERTS (TYPE "L") EACH 22"x13"	29"x18"	MISCELLANEOUS
342+10	C.M.P. Lt. under Present Road.					10	9																	
343+00	Road Approach Lt.			10					10			36												
355+16	Plug Present Culvert.			5																				
355+25	Side Drain and Road Approach Rt.			15		10	7		10			26												
357+80	Side Drain and Road Approach Lt. Rem. 15"x18' C.M.P. with 2-Hdw'ls.	1		15		10	10		10			36												
362+75	Road Approach Lt.			10					10															
363+03	Plug Present Culvert.			5																				
363+20	Side Drain and Road Approach Rt.			20		10	9		10			34												
373+45	Cross Culvert & Ditches. (No Hdw'ls.) W-2' Rem. 24"x26' C.M.P. with 2-Hdw'ls.	1			10	15	26						38											
381+50	Road Approach Lt.		5						10															
382+50	Road Approach Rt.			30					15															
388+50	Cross Culvert. No Hdw'ls.					5	18					56												
391+15	Cross Culvert & Ditches. No Hdw'ls.				5	25	16					50												
394+10	Side Drain and Road Approach Rt.			30		7	8		15			30												
	Plug Present Side Drain.																							
398+10	Road Approach Rt.			5																				
400+65	Cross Culvert thru Present C.B.C. & Ditches. (No Hdw'ls.) W: 2'				5	3	10		10											56				
401+00	Road Approach Lt.			10																				
408+60	Cross Culvert thru Present C.B.C. & Ditches (No Hdw'ls.) W: 2'				5	3	12		15											60				
410+90	Cross Culvert thru Present C.B.C. & Ditches (No Hdw'ls.) W: 2'				2	3	10													60				
411+85	Road Approach Rt.			10					10															
416+00	Road Approach Rt.			5					10															
421+45	Rem. Hdw'ls & Extend 18" C.M.P 8' Rt. & 10' Lt. & Ditches. No Hdw'ls.	1			5	3	5																	
423+75	Side Drain and Road Approach Lt.			10		10	8		15			32												
428+67	Cross Culvert & Ditches Rem. 18"x30' Siphon with 2-Hdw'ls.	1			5	10	11												44			2		
428+80	Road Approaches Lt. & Rt.			15					20															
437+20	Road Approach Lt.			5					10															
438+70	Road Approach Rt.			3					10															
440+90	Side Drain and Road Approach Lt. Rem. 15"x18' C.M.P. Lt.	1		5		10	9		15			36												
442+37 to 445+21	Fill and Adjust Borrow Ditch Lt. for Drainage.			100																				
443+61	Plug Present Cross Culvert.			5																				
444+30	Road Approach Lt. Rem. 15"x18' Side Drain Lt.	1		10					15															
445+00	Road Approach Rt.			10					10															
445+21	Cross Culvert & Ditches Rem. 15"x28' Siphon with 2-Hdw'ls.	1			5	10	11												42			2		
445+35	Side Drain and Road Approach Rt. Rem. 1'x1'x12' W.B.C. Rt.	1		10		10	8		15			32												

26' ROADWAY

CONT'D ON SHEET NO. 8

FED. ROAD DIV. NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 020-1(2)	8	

Rev. 11-15-50 R.S.M.-C.M.P. Sta. 478+03 & Totals of 18", 24" & 36" C.M.Ps.
Rev. 12-20-50 R.S.M.- 28' Rdwy Totals

LIST OF STRUCTURES

CONT'D FROM SHEET NO. 7

26' ROADWAY

STATION	DESCRIPTION	REMOVE STRUCT. NO.	EXCAVATION CU. YDS. UNCL.	EXCAVATION CU. YDS. EMB.	EXCAVATION CU. YDS. UNCL. DITCH	STRUCTURAL EXCAVATION CU. YDS. Δ	STRUCTURE BACKFILL CU. YDS. CLASS	MECH. TAMP HR.	GRAVEL OR C.R.ROCK SURF. TONS	CONCRETE CU. YDS. CLASS "A"	CONCRETE CU. YDS. CLASS "B"	REINF. STEEL LBS.	CORRUGATED METAL CULVERT PIPE LIN. FT. 15"	18"	24"	36"	METAL APRONS FOR C.M.P. CULVERTS (TYPE "K") EACH 15"	18"	24"	CORR. METAL PIPE ARCH CULVERTS LIN. FT. 22"x13"	29"x18"	36"x22"	METAL APRONS FOR C.M.P. ARCH CULVERTS (TYPE "C") EACH 22"x13"	29"x18"	MISCELLANEOUS
448+30	Road Approach Lt.			5					10																
451+75	Side Drain and Road Approach Lt.	1		25		15	9		20				40												
	Rem. 1'x1.5'x20' W.B.C. Lt.																								
452+00	Side Drain and Road Approach Rt.	1		15		5	7		15				28												
	Rem. 12'x12' C.M.P. Rt.																								
453+25	Side Drain and Road Approach Rt.			15		5	7		15				28												
454+80	Road Approach Lt.			10					10																
456+80	Side Drain and Road Approach Rt.			15		5	7		15				26												
458+50	Road Approach Rt.			10					10																
463+00	Road Approach Rt.			30					15																
464+70	Rem. Hdwl.s & Extend 15"C.M.P. 12'Rt.&10'Lt. & Ditches. Rem. Timber Head Flume Lt.	2			5	5	5					5 (1+1) σ					2								
465+00	Side Drain Lt. Road Approaches, Rt. & Lt. Rem. 1'x1.5'x30' W.B.C. Lt.	1		20		10	8		50				30												
466+75	Cross Culvert and Ditches	1			5	10	13						50					2							
	Rem. 15"x28' Siphon																								
470+75 to 473+50	Ditch Change Lt.				35																				
469+00	Road Approach Rt. & Lt.			70					30																
470+50	Cross Culvert and Ditches.				5	10	11						44					2							
473+00	Cross Culvert and Ditches. No Hdwls.				5	10	18							54											
475+00	Road Approach Rt. & Lt.			20					30																
475+03	Rem. Hdwls & Extend 18"C.M.P. 12'Rt. & 16'Lt. & Ditches. No Hdwls.	1			5	5	6						σ (12+1 16+1)												
478+25	Road Approach Lt.			20					15																
502+25	Cross Culvert & Ditches No Hdwls.				5	15	16							46											
502+95	Road Approach Rt. & Lt.			150					110																
503+30	Cross Culvert & Ditches. No Hdwls.				5	25	22							66											
503+80 to 510+00	Ditch Change Lt.				45																				
504+	Fill Pit Silo Rt.			400																					
522+08	Rem. Hdwls & Extend 18"C.M.P. 12'Rt. & 8'Lt. & Ditches.	1			5	5	5						σ (12+1 8+1)					2							
529+15	Project Marker																								1-Project Marker (State Force)
529+15	Approach to Project								✓																
	Mechanical Tamping for all C.M.Ps. under 42"							119																	
	TOTALS 28' ROADWAY	8	130	715	120	439	618	155	465	4.29	3.3	3.975	621	1078				23	14		46			2	
	TOTALS 26' ROADWAY	30	5	1375	297	427	477	119	797				828	460		58	2	20	2	170		176	3		

Δ Structural Excavation is estimated to be 95% Common and 5% Rock, each of which is estimated to be 70% Dry and 30% Wet.
⊕ Includes Elbows for Siphon Type Inlet. (Details on Sheet No. 23)
‡ Included in Profile Quantities.
σ 1' Extra for Connecting Band.
✓ Included in Surfacing Plan.

Rev 12-13-47 J.P.K.
Rev 7-1-49 J.R.E.
Rev 9-14-50 J.E.R.

STANDARD M-10-B.

FED. ROAD DIST. NO.	STATE	SHEET NO.	TOTAL SHEETS
3	COLO.	F020(12) 4	

1 2 3 4 5 6 7 8 9 0 .

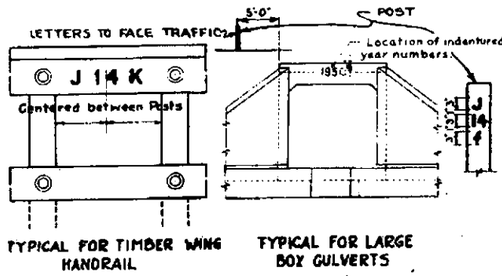
A B C D E F G H I J K L

M N O P Q R S T U V W

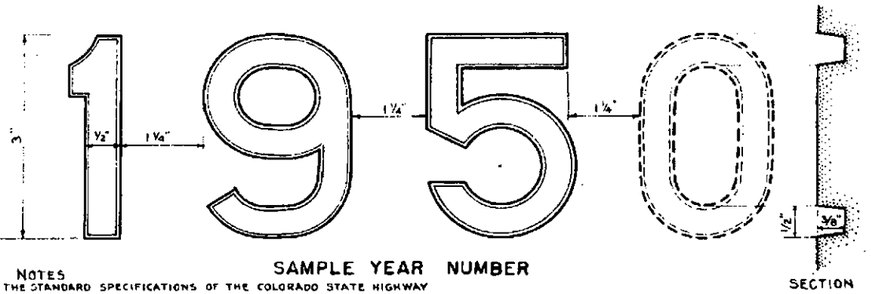
a f g l J 14 K 1950

b c d e f g h i j k l m n o p q r s t u v w x y z

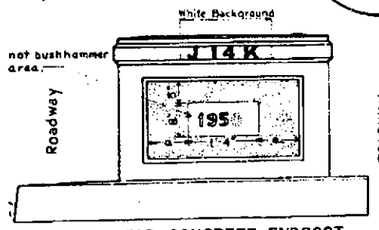
SAMPLE BRIDGE NUMBER



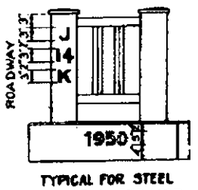
SAMPLE YEAR NUMBER



SECTION



TYPICAL FOR CONCRETE ENDPOST



TYPICAL FOR STEEL HANDRAIL END POST

TYPICAL FOR TIMBER WING HANDRAIL

TYPICAL FOR LARGE BOX CULVERTS

General Notes

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT, ADOPTED JANUARY 19TH 1948.

COMPENSATION FOR THIS WORK SHALL BE INCLUDED IN THE ORIGINAL CONTRACT ITEMS AND WILL NOT BE PAID FOR AS A SEPARATE ITEM.

THE SIZE, SHAPE AND SPACING OF THE LETTERS AND FIGURES SHALL BE IN ACCORDANCE WITH THE FULL SIZE SHOWN ON THIS SHEET.

ADDITIONAL COPIES OF THIS FULL SIZE SHEET CAN BE OBTAINED FROM THE DEPARTMENT WITHOUT CHARGE.

THE YEAR NUMBERS ARE RECESSED IN CONCRETE ⅜" MINIMUM AS SHOWN, INTO THE PANEL OF THE ENDPOST ON THE RIGHT HAND SIDE OF EACH BRIDGE END AND INTO THE FACE OF THE DOWNSTREAM HEADWALL OF CULVERTS AS SHOWN ON PLAN DETAILS. NUMBERS TO BE MADE OF WOOD, METAL OR OTHER SUITABLE MATERIAL AND ATTACHED TO THE FORMS BEFORE CONCRETE IS POURED. THE YEAR NUMBER OF EACH STRUCTURE SHALL CORRESPOND WITH THE YEAR IN WHICH THE CONCRETE IS POURED.

THE STRUCTURE NUMBER SHALL BE STENCILED ON THE RIGHT HAND SIDE OF EACH BRIDGE END AS SHOWN ON THIS STANDARD AND AS SPECIFIED. FOR MAJOR STRUCTURES OVER 20'-0" CLEAR SPAN.

THE CORRECT NUMBER FOR EACH BRIDGE IS SHOWN IN THE LOWER RIGHT HAND CORNER OF THE DETAIL SHEETS FOR THAT BRIDGE.

A PROPER WHITE BACKGROUND, RECTANGULAR IN SHAPE AND EXTENDING THREE INCHES BEYOND THE LIMITS OF THE NUMBER SHALL BE PAINTED WITH TWO COATS OF ACCEPTABLE WHITE PAINT UNLESS AN APPROVED WHITE CONCRETE PAINT IS USED, BEFORE PAINTING THE SURFACE MUST BE THOROLY DRIED, CLEANED AND PROPERLY SIZED. ON TIMBER HANDRAILS THE WHITE PAINT USED ON THE BRIDGE WILL BE SATISFACTORY.

AFTER THE WHITE BACKGROUND HAS DRIED SUFFICIENTLY, THE CORRECT STRUCTURE NUMBER SHALL BE CAREFULLY STENCILED ON IT. WITH TWO COATS OF SECOND FIELD COAT-DARK OR EXTERIOR BLACK PAINT (WHICH IS AS SPECIFIED UNDER ITEM 38 PAINTS AND PAINTING). THE BRACES OF THE STENCILED LETTERS AND FIGURES SHALL BE CAREFULLY FILLED IN BY HAND TO MAKE SOLID FIGURES.

SUFFICIENT TIME BETWEEN SUCCESSIVE COATS SHALL BE ALLOWED TO PERMIT THORO DRYING.

MINOR STRUCTURES WITH CLEAR SPANS 12 TO 20 FEET INCLUSIVE SHALL BE STENCILED WITH STRUCTURE NUMBER THUS W-12-2 ON 3" STEEL MARKER POSTS WHERE PROVIDED AND AS SHOWN ON STATE HIGHWAY STD. M-23-A

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD
LETTERS AND FIGURES
FOR
YEAR NUMBERS AND
STRUCTURE NUMBERS

Designed by G.H.D.	Approved by C.H. Bailey
Made by W.P.M.	Bridge Engineer
Checked by	Date: June 1, 1948

STRUCTURE NO.

REVISIONS

Rev. 6-28-40, A.Z. 1940 Specs.
Rev. 1-2-46, C.S.O. Item 818

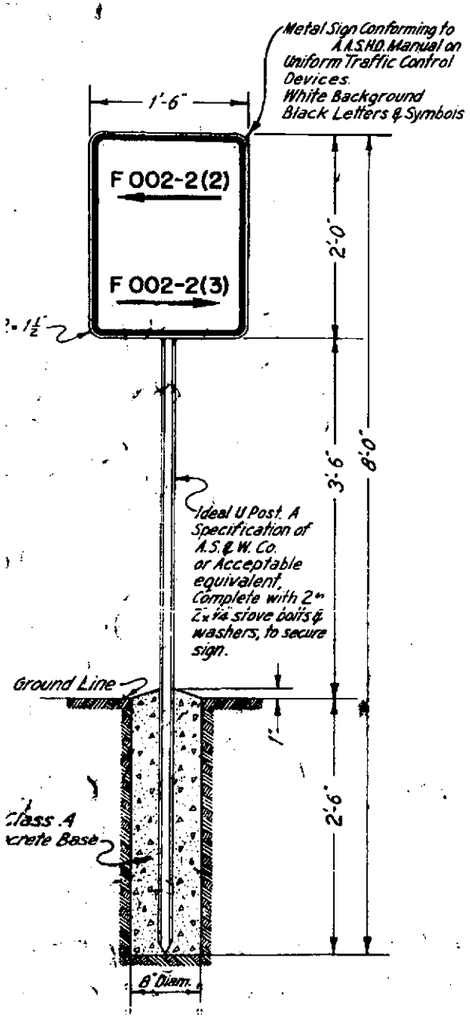
STANDARD M-7-B

Rev. 8 Jan. 46, R.S.A. ½" to 1/2"ø
Rev. June 10 '48, W.E.M. Bronze Tablet
Rev. Mar. 21-1947, W.M.R. – Project Marker Post.
Rev. Nov. 20-1947, J.P.K. re Metal Project Marker
Rev. Dec. 13-1947, J.P.K. re Concrete Base for Metal Project Marker
Rev. July 5-1950, J.C.R. re Rev. Note Re. Metal Sign for Project Marker, & R.O.W. Marker Markings

FED. ROAD DIST. NO.	STATE	SHEET NO	TOTAL SHEETS
3	COLO.	1020(12)	

PROJECT MARKER POST

ITEM Nº 818



NOTES FOR PROJECT MARKER POSTS

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, adopted January 1st 1948

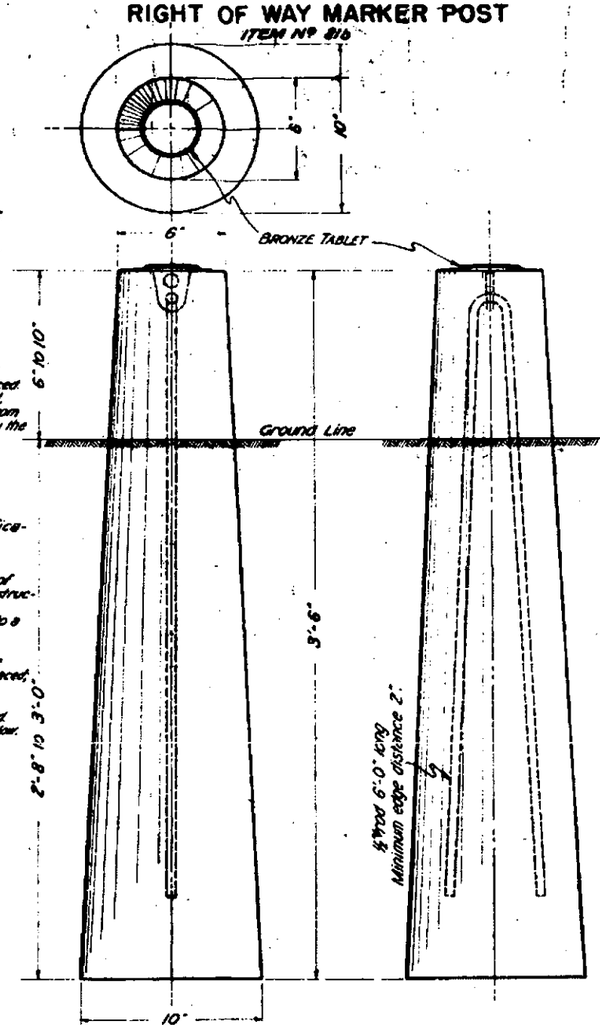
Numbers and arrows shall show the proper numbers and directions of the projects each way from where the post is placed. Post to be set with sign facing the road at the end of the project, two feet inside the R.O.W. line or at a point amply protected from traffic in such a position that the sign will indicate properly the projects to which it refers.

NOTES FOR R.O.W. MARKER POSTS

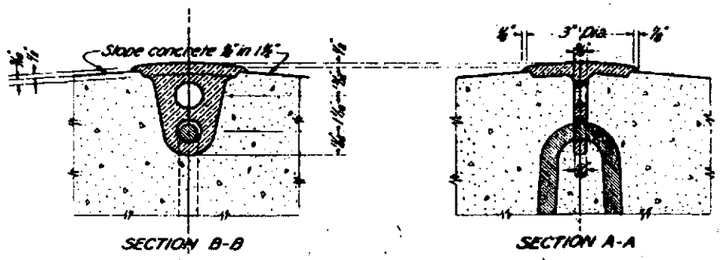
All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department, adopted January 1st 1948.
Posts shall be made of Class "A" Concrete.
The upper 12 inches of marker posts shall be rubbed free of form marks, and the top surface of the post must be constructed to drain thoroughly.
All exposed surfaces of the bronze tablet are to be ground to a smooth surface.
All letters are to be depressed a minimum of 1/16 inch.
Information on the bronze tablet indicated by pin lines is to be stamped in the field by the engineering party after post is placed, 1/16 inch letters and figures to be used.
Project designations on tablets shall be properly shown.
I.E., F.I. for Fed. Aid Interstate, F. for Fed. Aid Primary, S. for Fed. Aid Secondary etc. & S.P. Nº for State Projects, See detail below.

RIGHT OF WAY MARKER POST

ITEM Nº 818







DETAIL OF BRONZE TABLET
FOR RIGHT OF WAY MARKER POST

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD
MARKER POSTS

Designed by R.E.L.
Made by F.F.S.
Checked by R.E.L.
Approved by
Date: January 1st 1948

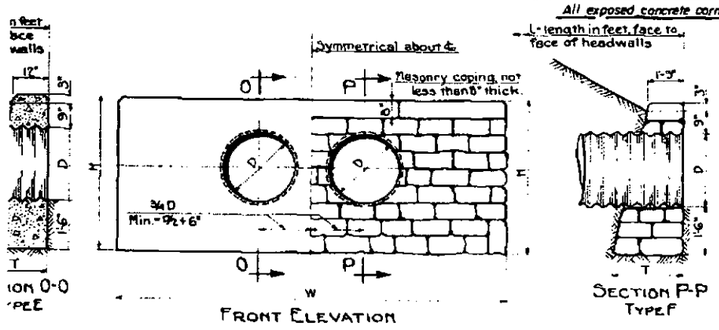
REVISIONS

STANDARD M-102-G

Rev. 8-28-50, C.G.M.- Dimension B, Line 7, Type L

FED. ROAD DIST. NO.	STATE	SHEET NO.	TOTAL SHEETS
3	COLO.	F020-1(2) 11	

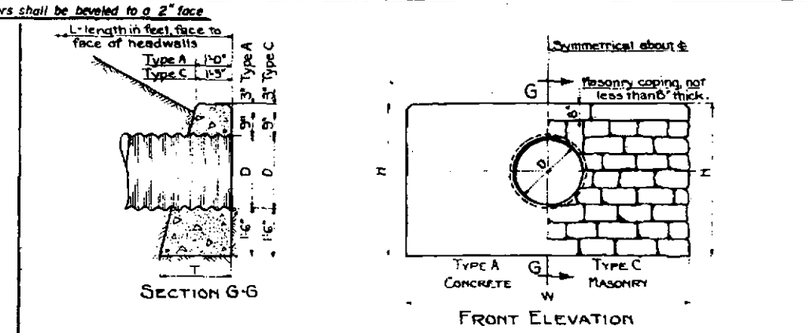
Rev. Types K & L Jan. 17, 1946; A.L.P. *Rev. 3-7-47 Type K&L. R.D.R.*
Rev. Types C & F June 11, 1946; A.L.P. *Rev. 12-15-47 "J.P.K."*
Rev. Types K & L Nov. 6, 1946; A.L.P. *Rev. 2-25-49 "R.E.M."*
Rev. Types A, E, K, & L, July 10, 1950, J.C.R.



STANDARD HEADWALLS FOR DOUBLE CORRUG. METAL PIPE CULVERTS

TABLE OF DIMENSIONS AND QUANTITIES

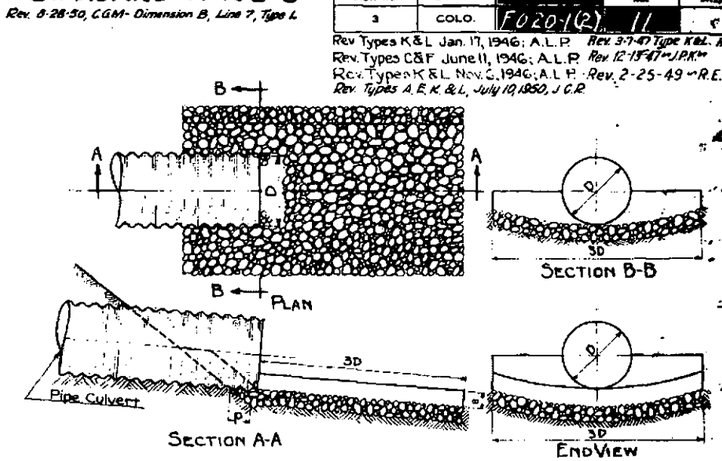
TYPE E		BOTH TYPES				TYPE F		
T	CLASS B CONCRETE IN TWO HEADWALLS	W	H	CORRUGATED METAL PIPE		CEMENT RUBBLE MASONRY IN TWO HEADWALLS	T	D DIAM.
				16 GAGE	2xL= LIN. FT.			
1'-6"	2.4 Cu. Yds.	7'-6"	5'-9"	16 Ga	2xL= Lin. Ft.	3.1 Cu. Yds.	2'-0"	15"
1'-7"	3.0 Do	8'-6"	4'-0"	16 Do	2xL= Do	3.8 Do	2'-1"	18"
1'-10"	4.4 Do	10'-6"	4'-6"	14 Do	2xL= Do	5.5 Do	2'-4"	24"
2'-0"	6.1 Do	12'-9"	5'-0"	14 Do	2xL= Do	7.5 Do	2'-6"	30"
2'-2"	8.1 Do	15'-0"	5'-6"	12 Do	2xL= Do	10.0 Do	2'-8"	36"
2'-5"	10.8 Do	17'-3"	6'-0"	12 Do	2xL= Do	12.8 Do	2'-10"	42"
2'-7"	13.6 Do	19'-6"	6'-6"	12 Do	2xL= Do	16.3 Do	3'-0"	48"



STANDARD HEADWALLS FOR SINGLE CORRUG. METAL PIPE CULVERTS

TABLE OF DIMENSIONS AND QUANTITIES

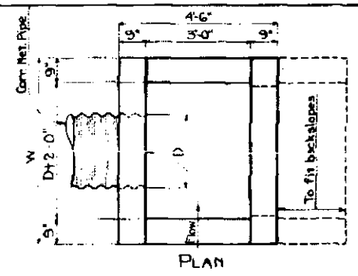
TYPE A			BOTH TYPES				TYPE C		
D DIAM.	T	CLASS B CONCRETE IN TWO HEADWALLS	W	H	CORRUGATED METAL PIPE		CEMENT RUBBLE MASONRY IN TWO HEADWALLS	T	D DIAM.
					16 GAGE	L= LIN. FT.			
15"	1'-6"	1.8 Cu. Yds.	5'-3"	3'-9"	16 Gage	L= Lin. Ft.	2.2 Cu. Yds.	2'-0"	15"
18"	1'-7"	2.2 Do	6'-0"	4'-0"	16 Do	L= Do	2.8 Do	2'-1"	18"
24"	1'-10"	3.3 Do	7'-6"	4'-6"	14 Do	L= Do	4.1 Do	2'-4"	24"
30"	2'-0"	4.5 Do	9'-0"	5'-0"	14 Do	L= Do	5.6 Do	2'-6"	30"
36"	2'-2"	6.0 Do	10'-6"	5'-6"	12 Do	L= Do	7.4 Do	2'-8"	36"
42"	2'-5"	8.0 Do	12'-0"	6'-0"	12 Do	L= Do	9.2 Do	2'-10"	42"
48"	2'-7"	10.0 Do	13'-6"	6'-6"	12 Do	L= Do	11.5 Do	3'-0"	48"



STANDARD GROUTED RUBBLE APRON FOR PIPE CULVERTS.

SQUARE YARDS GROUTED RUBBLE SLOPE AND DITCH PAVING 1 FOOT THICK

FILL SLOPE	D	15"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
0-1	2'-0"	3	4	6	9	12	17	21	27	33	39	46	54	62
2:1	2'-0"	3	4	7	10	15	18	22	28	34	41	49	57	66
3:1	3'-0"	3	4	7	11	15	20	25	31	38	45	54	63	72
4:1	4'-0"	3	5	8	12	16	22	28	34	42	50	59	69	79

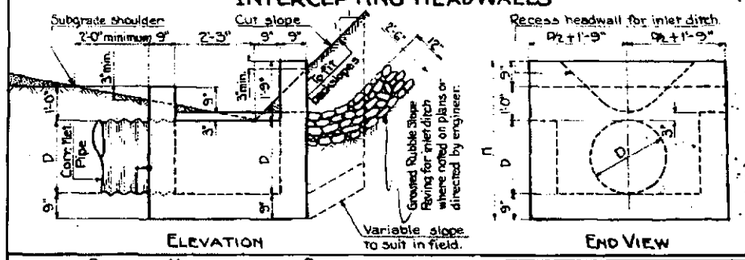


QUANTITIES OF CLASS B CONCRETE OR CEMENT RUBBLE MASONRY

SIZE OF PIPE	WIDTH OF WALL	HEIGHT OF WALL	QUANTITIES IN ONE HEADWALL
D	W	H	CU.YDS.
15"	4'-9"	3'-9"	1.48
18"	5'-0"	4'-0"	1.64
24"	5'-6"	4'-6"	1.99
30"	6'-0"	5'-0"	2.34
36"	6'-6"	5'-6"	2.72

NOTE: Backwall to be eliminated and end walls connected to back slope where ordered by the Engineer. Floor slab is to be extended with side walls if in common material and is to be omitted when inlet is in rock. Actual quantities involved in such operation shall be allowed and paid for. Increases in plan quantities must be covered by work order.

INTERCEPTING HEADWALLS



GENERAL NOTES FOR ALL STRUCTURES

All work shall be done according to the standard specifications of the Colorado State Highway Department, adopted January 1st 1948
All exposed concrete surfaces shall receive class 1 surface finish.

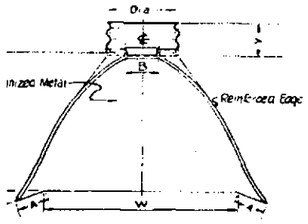
All construction joints shall be thoroughly cleaned before fresh concrete is poured.
All walls shall have forms on both sides.
The minimum fill over top of culverts shall be 1'-0".
When culvert is skewed, headwalls shall be placed parallel to ℄ of roadway.
Minimum grade of pipe shall be 1%.
For size and location of culverts see plan sheets for project.
Footings in rock shall be poured out to rock and not formed.
Mechanical Tamping, as provided under Item No. 16 of the specifications, shall be applied over such areas as shown on the plans or as ordered by the Engineer.

COLORADO STATE HIGHWAY DEPARTMENT

STANDARD HEADWALLS
INTERCEPTING HEADWALLS
GALVANIZED METAL APRONS
GROUTED RUBBLE APRONS
FOR CORR. MET. PIPE CULVERTS

Designed by P.S.B.-C.M.D. | Approved by [signature]
Made by A.L.P. | Bridge Engineer
Checked by H.W.P. | Date December 15, 1948

V= 7" for 12"D to 30"D.
V= 12" for 36"D to 48"D.

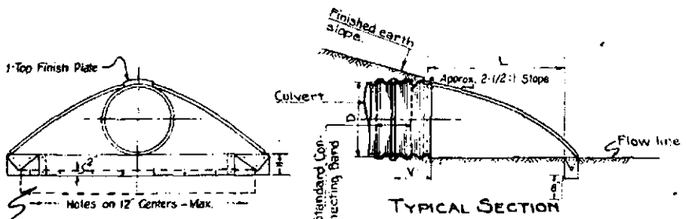


TYPE K

CULV. DIAM. Dia.	GAGE	DIMENSIONS A ±Tol.	B Max.	L ±1½ Tol.	W ±Tol.	H ±1" Tol.	REMARKS
12"	16	6"	8"	26"	30"	6"	One piece skirt
18"	16	7"	9"	31"	36"	6"	One piece skirt
24"	14	9½"	12"	42"	48"	6"	One piece skirt
30"	14	12"	15"	52½"	60"	7½"	Two piece skirt ♦
36"	12	14"	18"	63"	72"	9"	Two piece skirt ♦
42"	12	16"	21"	73½"	84"	10½"	Two piece skirt ♦
48"	12	18"	27"	84"	90"	12"	Two piece skirt ♦

Splices to be the lap riveted type.
● One splice on ℄ made by either riveting or bolting Galvanized Connector Section, Corner Plate & Toe Plate to be same gage as skirt Section.
▲ Culvert diameter is equal to dimension D of connector section.

Length of Toe Plate for Culverts 15" to 30" Dia. incl. = "W" + 10".
36" to 48" Dia. incl. = "W" + 22".

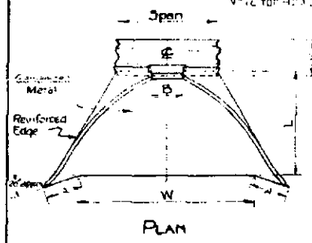


Galvanized Toe Plate of same gage as apron req'd. for 30", 36", 42", & 48" Culverts. Plate to be bolted to apron with 3/8" galvanized bolts.

Elevation

STANDARD METAL APRONS FOR CORRUGATED METAL PIPE CULVERTS TYPE K

V= 7" for 16"x11" & 36"x25" PIPE-ARCHES
V= 12" for 43"x27" to 72"x44" PIPE-ARCHES

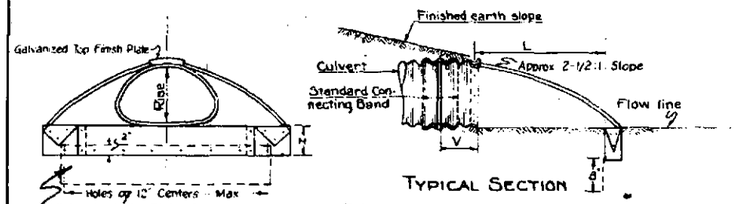


TYPE L

NORMAL CULVERT DIAM.	ARCH DIMENSIONS SPAN	RISE	GAGE	DIMENSIONS A ±Tol.	B Max.	L ±1" Tol.	W ±Tol.	H ±1" Tol.	REMARKS
15"	18"	11"	16	4½"	9"	19"	30"	6"	One piece skirt
18"	22"	13"	16	5½"	10"	23"	36"	6"	One piece skirt
24"	29"	18"	14	7"	14"	31½"	48"	6"	One piece skirt
30"	36"	22"	14	8¾"	16"	38½"	60"	6"	One piece skirt
36"	43"	27"	12	10¾"	17½"	47"	75"	7⅜"	Two piece skirt ▲
42"	50"	31"	12	12¼"	20"	54"	85"	9⅛"	Two piece skirt ▲
48"	58"	36"	12	14"	26"	63"	96"	10⅝"	Two piece skirt ▲
54"	65"	40"	12	15¾"	23"	70"	112"	10⅝"	Three piece skirt ♦
60"	72"	44"	10	17¼"	24"	77"	128"	12⅛"	Three piece skirt ♦

▲ Splices to be the lap riveted or bolted on ℄.
♦ Sections to be joined by riveting or bolting equal distance from ℄.
Galvanized Connector Section, Corner Plate & Toe Plate to be same gage as skirt Section.

NOTE: Length of Toe Plate for Pipe-Arch Culverts with rise of 11" to 27" incl. = "W" + 10".
31" to 44" incl. = "W" + 18".



Galvanized Toe Plate of same gage as apron req'd. for Culverts having a rise of 21" & greater. Plate to be bolted to apron with 3/8" galvanized bolts.

Elevation

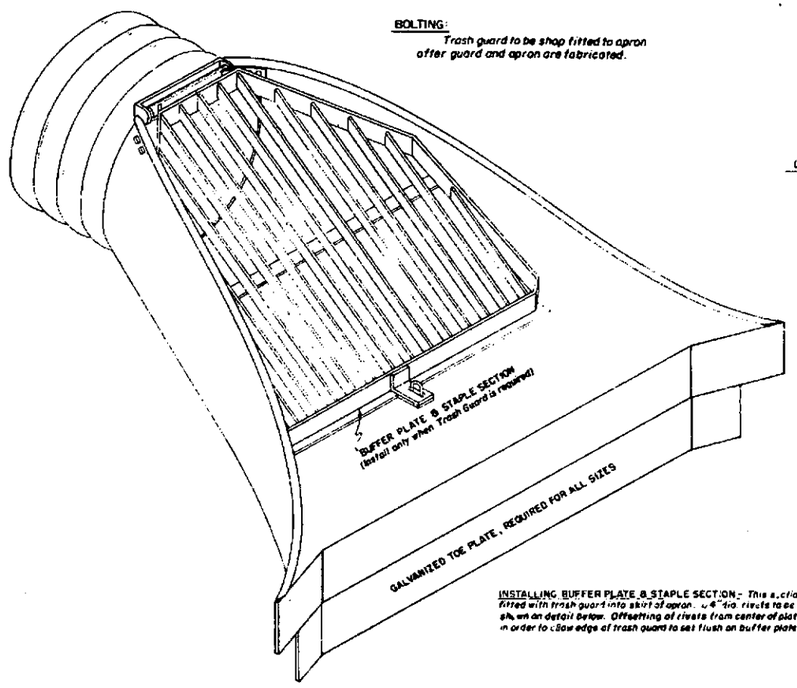
STANDARD METAL APRONS FOR CORRUGATED METAL PIPE ARCH CULVERTS TYPE L

REVISIONS

FED. ROAD DIVISION NO.	DISTRICT		SHEET No.	TOTAL SHEETS
9	COLO	FORT C		

STANDARD C.M.P. SIPHON with METAL APRONS for INLETS & OUTLETS

STANDARD M-124-A

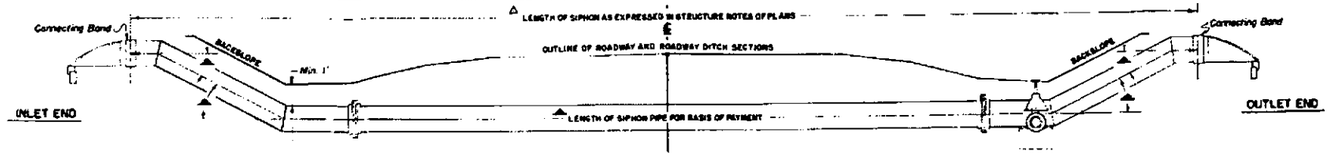


BOLTING: *Trash guard to be shop fitted to apron after guard and apron are fabricated.*

INSTALLING BUFFER PLATE & STAPLE SECTION: *This section to be shop fitted with trash guard into skirt of apron. 4 - 1/4" dia. rivets to be used at locations shown on detail below. Offsetting of rivets from center of plate may be necessary in order to allow edge of trash guard to set flush on buffer plate.*

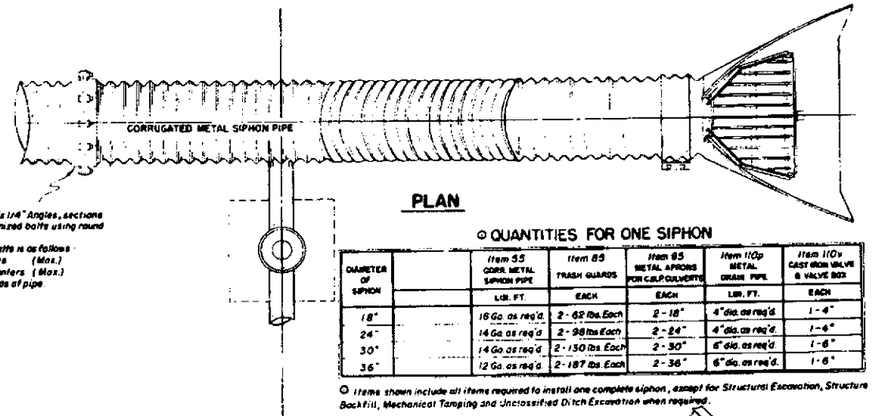
Illustrative Sketch of Metal Apron with Trash Guard Installed

Cross Sectional View Showing Typical Relationship of Siphon to Roadway



▲ *See plans for details showing various lengths and angles for each siphon required. A tolerance of 2° ± will be permitted in angles of sections of pipe to be fabricated.*

△ *A maximum tolerance of 4 inches will be allowed in total length of siphon.*



PLAN

Standard Light Rolled Flanges, 2"x 2"x 1/4" Angles, sections to be bolted together with 1/2" dia. galvanized bolts using round rubber gaskets between angles
Spacing of holes around flanges for bolts as follows:
18" and 24" Siphons - 6" centers (Max.)
30" and 36" Siphons - 3-1/2" centers (Max.)
Flanges shall be securely riveted to ends of pipe.

⊙ QUANTITIES FOR ONE SIPHON

DIAMETER OF SIPHON		Item 55 CORR. METAL SIPHON PIPE	Item 85 TRASH GUARDS	Item 95 METAL APRONS FOR C.M.P. CULVERTS	Item 110p METAL DRAIN PIPE	Item 110v CAST IRON VALVE & VALVE BOX
		LIN. FT.	EACH	EACH	LIN. FT.	EACH
18"		16 Ga. as req'd.	2 - 62 lbs. Each	2 - 18"	4" dia. as req'd.	1 - 4"
24"		14 Ga. as req'd.	2 - 98 lbs. Each	2 - 24"	4" dia. as req'd.	1 - 4"
30"		14 Ga. as req'd.	2 - 130 lbs. Each	2 - 30"	6" dia. as req'd.	1 - 6"
36"		12 Ga. as req'd.	2 - 187 lbs. Each	2 - 36"	6" dia. as req'd.	1 - 6"

⊙ *Items shown include all items required to install one complete siphon, except for Structural Excavation, Structure Backfill, Mechanical Tamping and Unclassified Ditch Excavation when required.*

METAL APRONS - *Except for the following, Metal Aprons used on C.M.P. Siphons shall be of the same specifications as those shown on the Standard Sheet included in plans for Metal Aprons:*
1. Galvanized Toe Plates will be required on all sizes.
▲ 2. The galvanized Top Finish Plate normally required on all Metal Aprons will not be required. The unit is eliminated to facilitate installation of the Trash Guard hinge.

TRASH GUARDS - *Structural Steel Trash Guards conforming to details shown on this sheet shall be painted as per specifications for Structural Steel. These specifications may be found under the item "Paints and Painting."*

CAST IRON VALVE & VALVE BOX - *Cast Iron Extension Valve Box, Size B, with No. 6 Base as shown in Hendrie & Bolthoff Catalog No. 150 (Pg. 387), or an acceptable equivalent will be used.*
Valves used shall be Crane No. 461 Standard Body Wedge Gate Valve with brass seats and stem or an acceptable equivalent.

METAL DRAIN PIPE - *Metal Drain Pipe conforming to specifications shall be used in the following sizes:*
18" & 24" Dia. Siphon - 4" Dia. Drain Pipe with 4" Valve & Drain
30" & 36" Dia. Siphon - 6" Dia. Drain Pipe with 6" Valve & Drain

CORRUGATED METAL SIPHON PIPE - *Siphon Pipe conforming to specifications shall be double riveted along the longitudinal seams and riveted at three (3) inch centers along circumferential seams.*
Assembling of sections shall be accomplished in accordance with details for flanges, bolts and gaskets shown on this sheet.

▲ *Top Finish Plate to be installed where Trash Guard is not required.*

Details of Parts for Trash Guard Assembly

NOTE

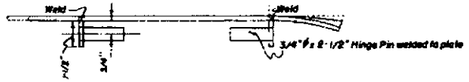
Sections shown below to be furnished and installed as part of Trash Guard Unit. The cost of all assemblies, installing, drilling, bolts, washers, rivets, painting, labor and equipment necessary shall be included for payment in bid price for Item 85, Trash Guards.

TABLE OF DIMENSIONS

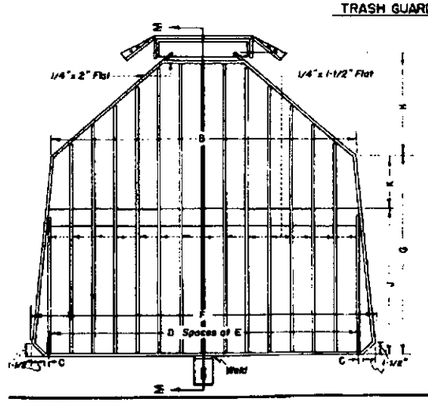
DIA. OF SIPHON	A	B	C	D	E	F	G	H	J	K	L	P	R	S
18"	6"	25"	1"	10	2-1/2"	30"	15"	11"	18°	3"	9"	26"	6-1/2"	1"
24"	8"	34-1/2"	1/2"	14	2-1/2"	39"	23"	12"	17°	6"	10"	37"	5"	1"
30"	12"	41"	1-1/4"	15	2-1/2"	45"	27"	19"	20°	7"	18"	39"	6-1/2"	1"
36"	14"	51"	1-1/4"	21	2-1/2"	58"	32"	23"	24°	8"	20"	54"	6"	1"

NOTE *All dimensions shown above to have 1/2" ± tolerance except dimensions A & L.*

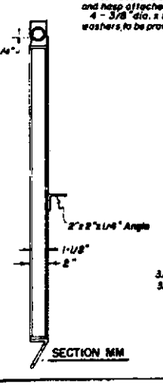
TRASH GUARD HINGE

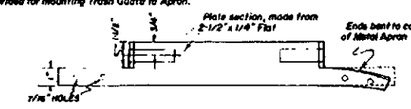


TRASH GUARD

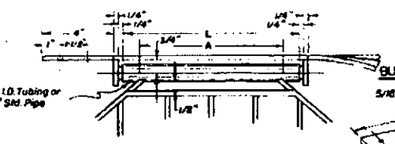


NOTE: *Trash Guard to be of all welded construction with hinge section and hasp attached, making one integral unit. 4 - 3/8" dia. x 1" galvanized machine bolts with flat and lock washers, to be provided for mounting Trash Guard to Apron.*

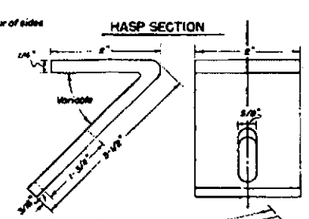


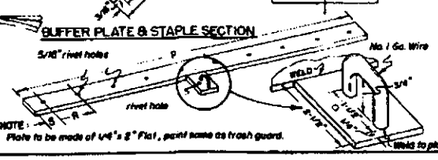


BREAKDOWN VIEWS SHOWING PLATE AND HINGE PINS



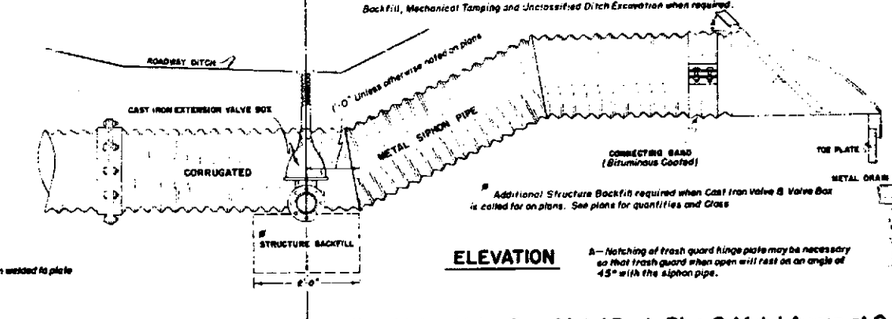
PLAN VIEW OF ASSEMBLED HINGE SECTION





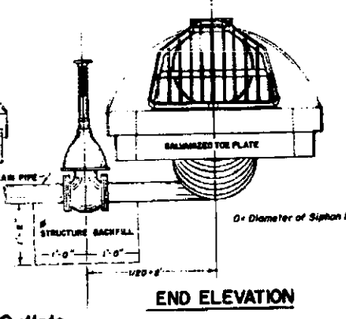
NOTE: *Plate to be made of 1/4" x 8" Flat, paint same as trash guard.*

Details for Installing Valve, Valve Box, Metal Drain Pipe & Metal Apron at Outlets



ELEVATION

Additional Structure Backfill required when Cast Iron Valve & Valve Box is called for on plans. See plans for quantities and Class



END ELEVATION

B— Notching of trash guard hinge plate may be necessary so that trash guard when open will rest on an angle of 45° with the siphon pipe.

GENERAL NOTES

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department applicable to the Project.

Trash Guards, Metal Drain Pipe and Cast Iron Valve and Valve Boxes will be furnished when called for on plans.

Alternate equivalent hardware and fittings will be accepted subject to the Engineers approval.

COLORADO STATE HIGHWAY DEPARTMENT

Standard C.M.P. Siphon with Metal Aprons for Inlets & Outlets

Designed by T.C.H.	Approved by [illegible]
Made by C.C.M.	Engineer, Surveys & Plans
Checked by M.R.H.	Date: Sept 18, 1950

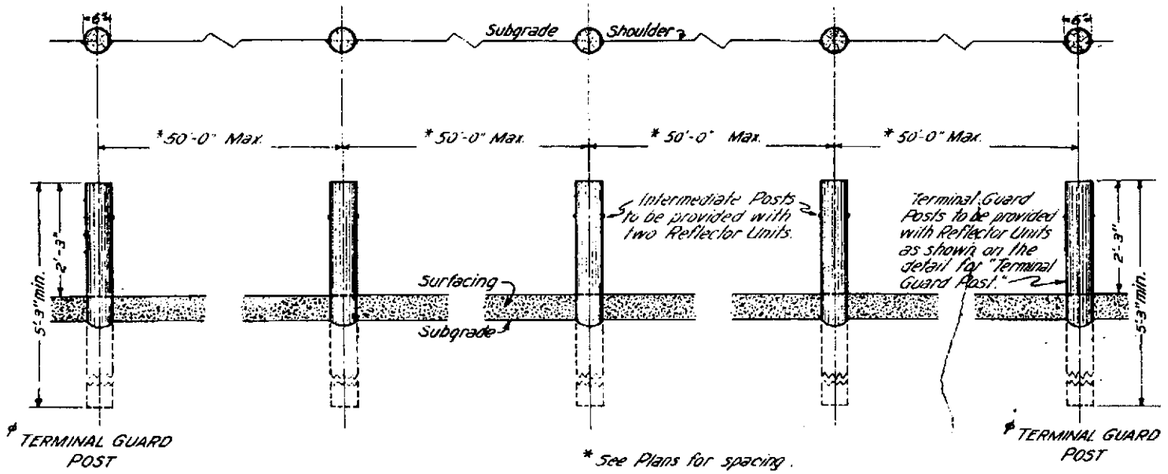
REVISIONS

Rev 11-24-39-PBB Reflector Units (Min. Stds)
Rev 12-19-39-PBB Length and treatment of posts.

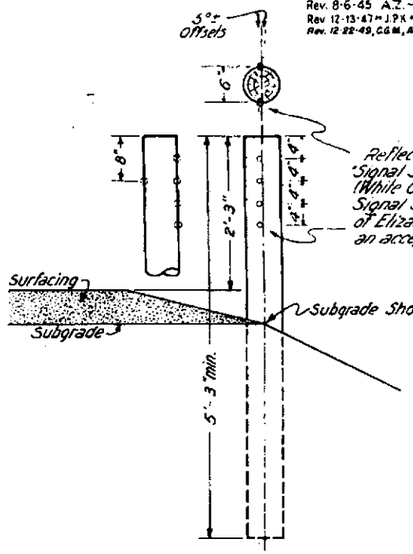
FED. ROAD DIST. NO.	STATE	SHEET NO.
3	COLO.	1020-1(2) 13

STANDARD M-19-B

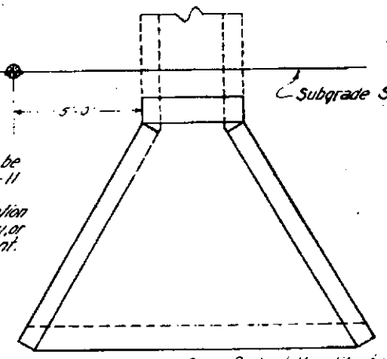
Rev. 6-28-40-A. Z. - 1940 Specs. & Location of posts.
Rev. 10-9-40-PBB - Painting & Refl. Units.
Rev. 2-24-41-PBB - Terminal Guard Post Placement.
Rev. 7-2-41-PBB - White Paint
Rev. 7-9-42 NOW Delete Painting of Posts.
Rev. 8-6-45 A.Z. - Location of posts.
Rev. 12-13-47 - J.P.K.
Rev. 12-22-49, C.G.M., Added Date Nail Detail



SHOWING PLACEMENT ON NORMAL ROADWAY FILLS

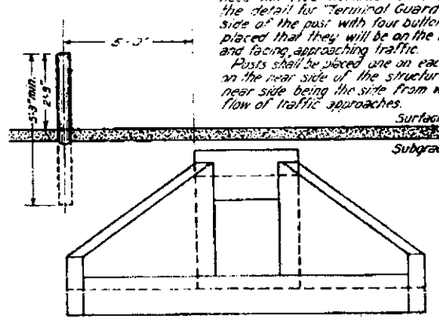


Reflector Units shall be "Signal Service" No. ALA-11 (White Crystall) of the Signal Service Corporation of Elizabeth, New Jersey, or an acceptable equivalent.

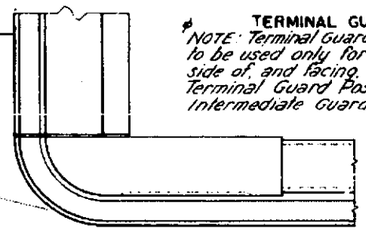


Guard Posts at Minor Structures to be provided with five Reflector Units as shown on the detail for "Terminal Guard Post." The side of the post with four buttons to be so placed that they will be on the right support, and facing approaching traffic.

Posts shall be placed one on each shoulder on the near side of the structure. The near side being the side from which the flow of traffic approaches.



SHOWING PLACEMENT AT MINOR STRUCTURES



TERMINAL GUARD POST

NOTE: Terminal Guard Posts as detailed above to be used only for the near Post on the right side of, and facing, approaching traffic. All other Terminal Guard Posts to be identical with Intermediate Guard Posts.

SHOWING PLACEMENT AT BRIDGE APPROACHES

Intermediate Guard Posts at Bridges to be provided with Reflector Units as shown; that is, one Unit each on the three Posts nearest the bridge end and two Units on the fourth Post.

GENERAL NOTES

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department applicable to the Project.

All wood posts shall be made from seasoned, straight, sound Lodgepole Pine, Southern Yellow Pine, or West Coast Douglas Fir.

No section of wood posts shall be less than 6" in diameter.

All wood posts shall be entirely peeled and shaved thoroughly seasoned and dry, with square tops.

All wood posts shall be set and tamped in plumb and firm, to the lines and grades as directed by the Engineer.

Reflector Units in all posts shall be placed in such position that the units will function at a distance of 500 feet.

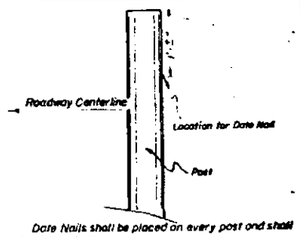
On tangents the Reflector Units shall be placed at an angle of approximately five degrees to a line parallel to the centerline of the highway.

In all instances a test shall be made to assure the position of the Reflector Units to be the most effective possible.

The diameter of holes drilled in the posts shall be drilled approximately one-sixteenth (1/16) inch less than the diameter of the signal button base. In all instances the hole shall be enough undersize that the button when driven into the post shall have complete bond with the post and be securely locked in correct position.

Posts shall be given a standard pressure Creosote treatment and then be thoroughly steam-cleaned in accordance with requirements of specifications.

Details for Placing Date Nails



Date Nails shall be placed on every post and shall be driven flush

Date Nails to be furnished and installed by State Forces as part of Engineering Costs.

COLORADO STATE HIGHWAY DEPARTMENT

STANDARD

TIMBER GUARD POSTS

Designed by R.E.L.	Approved by [illegible]
Made by P.B.B.	Chief Draftsman
Checked by	Date: January 1st 1948

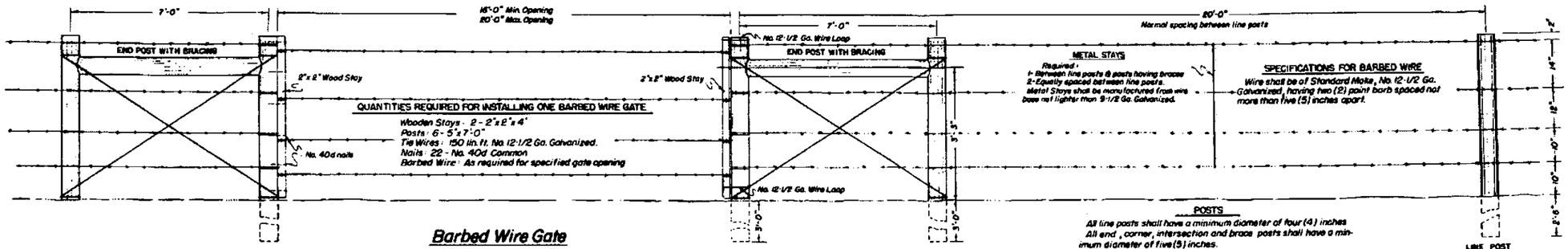
REVISIONS

Standard Wire Fence With Wooden Posts

STANDARD M-24-H

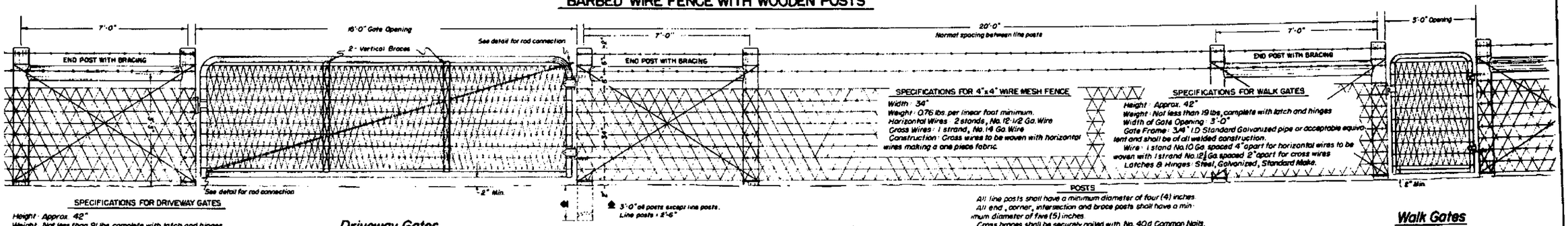
FED. ROAD DIVISION NO.	DISTRICT		SHEET NO.	TOTAL SHEETS
9	COLO.	FOR 18	14	

Rev. 5-1-50, C.G.M., Post spacing, Driveway gate, Added Gen. Note



Barbed Wire Gate

BARBED WIRE FENCE WITH WOODEN POSTS

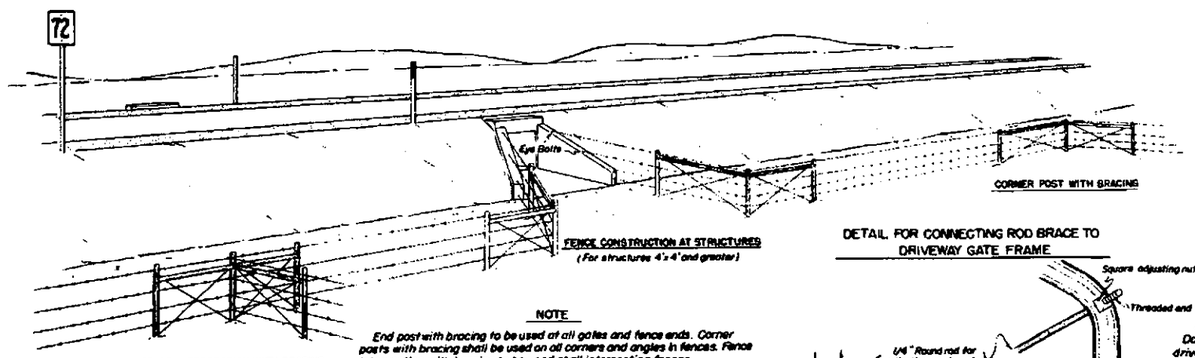


Driveway Gates

Walk Gates

COMBINATION WIRE FENCE WITH WOODEN POSTS

Illustrative Sketch Showing Typical Examples For Constructing Fences



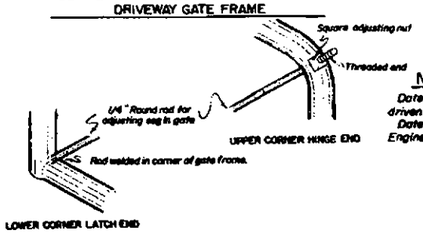
NOTE

End post with bracing to be used at all gates and fence ends. Corner posts with bracing shall be used on all corners and angles in fences. Fence intersection with bracing to be used at all intersecting fences.

At all Structures of 4'x 4' and over the fence shall be ended at eye-bolts in the wings of the structure. Where the type of construction prohibits the use of eye-bolts, an end post with bracing shall be used.

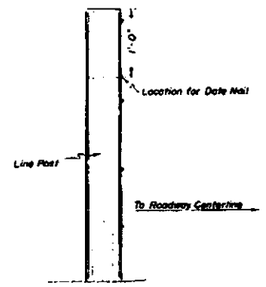
Eye-bolts are to be made from 1/2" round iron bars with a minimum of 6" of body length embedded in the concrete and a minimum of 1" inside eye diameter.

DETAIL FOR CONNECTING ROD BRACE TO DRIVEWAY GATE FRAME



DETAILS FOR PLACING DATE NAILS

(To be installed on Treated Wooden Posts only)



NOTE

Date Nails shall be placed on every tenth (10th) post and shall be driven flush.

Date Nails to be furnished and installed by State Forces as part of Engineering Costs.

General Notes

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department applicable to the Project.

Wire mesh used in Combination Wire Fence as shown above shall be galvanized. Wire mesh used in walk and driveway gates shall be galvanized or painted with an approved waterproof asphalt or mineral paint.

Fence Staples shall be galvanized and of least 1-1/2" in length and shall be made from wire base not less than No. 9 Ga. Barbed wire fence shall have eight (8) staples per line post, Combination wire fence shall have fourteen (14) staples per line post.

Fence wire to be placed on either road or field side of posts depending on local conditions i.e. On curves the wire should be placed on side of post which would prevent tension on staples. This will also apply where wind drift, tumble weeds or other conditions would exert unusual pressure against the wire.

POSTS:

Posts shall be treated or untreated as specified on plans and shall conform to the following:

Untreated posts shall be made of seasoned, straight native cedar. The tops of posts shall be sawed off square and peeling of the posts will not be required. Split posts will not be acceptable for use unless specifically permitted in the Special Provisions of plans.

Treated posts shall be made of seasoned, straight, sound Lodgepole Pine or Southern Pine, to be peeled and tops to be cut off square before pressure treatment. Posts shall be pressure treated in conformity with requirement of the Specifications

In lieu of Galvanized Finish on Gate Frames, Cadmium Plated Pipe or Aluminum Painting with zinc chromate Primer as per specifications will be considered to be equivalent.

COLORADO
STATE HIGHWAY DEPARTMENT

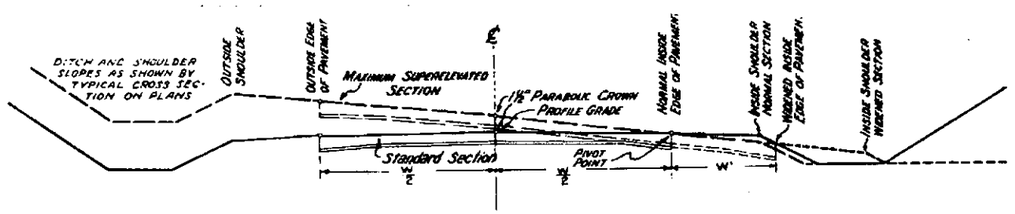
Standard Wire Fence With Wooden Posts

Designed by C.G.M.	Approved by [illegible]
Made by C.G.M.	Engineer of Surveys & Plans
Checked by C.J.	Date: Mar. 1, 1950

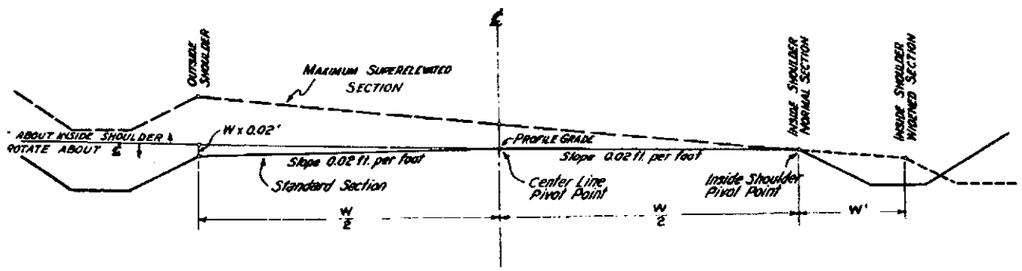
STANDARD M-I-B

DIST. NO. 3 | COLO. | F020-1(3) 15

Rev. 11-2-38 P.B.B. Widening Transition
Rev 12-13-47 J.P.K.



PAVEMENT SECTION

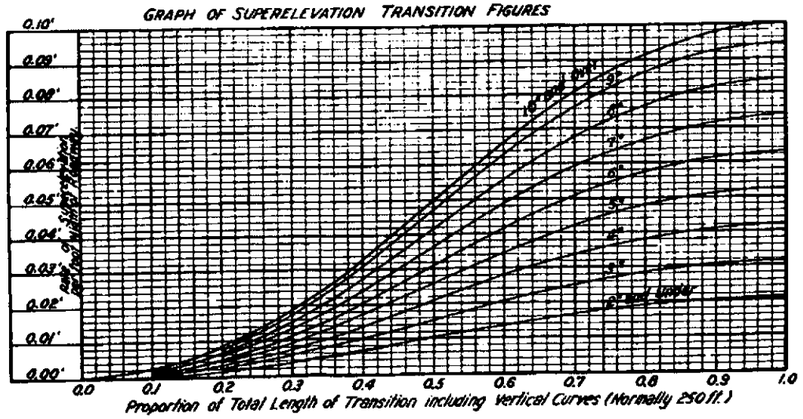


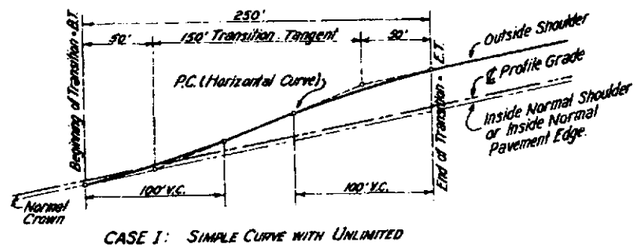
GRADED OR SURFACED SECTION

SUPERELEVATION AND WIDENING TABLES

DISTANCE FROM B.T. (OR E.T.)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	MIN. 1.0
Degree of Curvature	RATE OF SUPERELEVATION (IN FEET) PER FOOT WIDTH OF ROADWAY									
2° and Under	0.00044	0.00175	0.00394	0.00700	0.01050	0.01400	0.01706	0.01925	0.02056	0.02100
3°	0.00066	0.00263	0.00591	0.01050	0.01575	0.02100	0.02559	0.02888	0.03084	0.03150
4°	0.00088	0.00350	0.00788	0.01400	0.02100	0.02800	0.03413	0.03850	0.04113	0.04200
5°	0.00109	0.00438	0.00984	0.01750	0.02625	0.03500	0.04266	0.04813	0.05141	0.05250
6°	0.00131	0.00525	0.01181	0.02100	0.03150	0.04200	0.05119	0.05775	0.06169	0.06300
7°	0.00153	0.00613	0.01378	0.02450	0.03675	0.04900	0.05972	0.06738	0.07197	0.07350
8°	0.00175	0.00700	0.01575	0.02800	0.04200	0.05600	0.06825	0.07700	0.08225	0.08400
9°	0.00197	0.00788	0.01772	0.03150	0.04725	0.06300	0.07678	0.08663	0.09259	0.09450
10° and Over	0.00208	0.00833	0.01875	0.03333	0.05000	0.06667	0.08125	0.09166	0.09792	0.10000
	OFFSETS FOR WIDENING - W'- (IN FEET)									
Over 10° - Under 12°	0.03	0.12	0.27	0.48	0.75	1.08	1.47	1.92	2.43	3.00
12° - " 15°	0.04	0.16	0.36	0.64	1.00	1.44	1.96	2.56	3.24	4.00
15° - " 20°	0.05	0.20	0.45	0.80	1.25	1.80	2.45	3.20	4.05	5.00
20° and Over	0.06	0.24	0.54	0.96	1.50	2.16	2.94	3.84	4.86	6.00

GRAPH OF SUPERELEVATION TRANSITION FIGURES

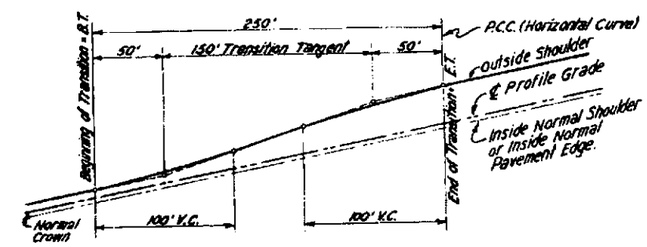




CASE I: SIMPLE CURVE WITH UNLIMITED TANGENT APPROACH

NOTE: CASE I

The transition in this case, from crowned section to superelevated section, shall proceed uniformly by raising the outside shoulder, over a distance of 250 ft. as shown, beginning at a point on the tangent 150 ft. from the end of the curve and acquiring full superelevation at a point 100 ft. inside the curve.



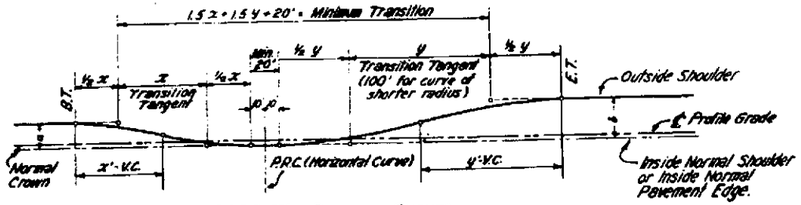
CASE II: COMPOUND CURVE

NOTE: CASE II

Superelevation transitions at the outside ends of compound curves shall be constructed in accordance with rules given under CASE I.

Superelevation transition between the arcs of different radii shall be made as in CASE I, except that the entire transition shall lie within the limits of the curve of the longer radius.

In cases where curves in the same direction have a tangent distance of less than 300 ft. between points of curve, the intervening tangent shall be superelevated an amount equal to that of the curve of greater radius and the transition shall be made as in the case of a true compound curve.



CASE III: REVERSE CURVES

NOTE: CASE III

Transitions between true reverse curves shall be accomplished as shown on the above diagram.

Transition tangents shall be directly proportional to the amount of superelevation of the respective curves.

EXAMPLE: Let a represent the amount of superelevation on 1st curve;
" b " " " " " " 2nd " ;
" x " " " " transition tangent on 1st " ;
" y " " " " " 2nd " ;
then, a : b = x : y.

The transition tangent of the curve having the shorter radius shall be set at 100 ft.

A normal crowned section 20 ft. long, 10 ft. on each side of the P.R.C. shall be used.

In cases where curves in opposite directions are in such proximity that a standard transition can not be had, the practice outlined for true reversing curves shall be used.

The total distance between the P.T. of the first curve and the P.C. of the succeeding curve shall be prorated into the transition distance of the respective curves until a maximum of 150 ft. of transition tangent for each curve is achieved.

GENERAL NOTES

Curves on projects using the Sections shown are to be superelevated and widened as indicated in the accompanying drawings and tables.

The normal inside edge of the Pavement-slab is to remain at the standard elevation of 0.125 ft. below the profile grade, and the outside edge of the slab is to be superelevated at the rate per foot width of roadway given in the table. The Section is to be rotated about the normal inside edge of the Pavement, with a 1½" parabolic crown for curves of 10° and under, and a flat crown for widened Sections.

The normal inside edge of the Graded or Surfaced Section is to remain at the standard elevation of 0.02 ft. per foot width of roadway below the profile grade, or as shown on the Typical Section for the Project. Also, the center-line pivot point is to be used until the superelevation equals 0.02 ft. per foot width of roadway, but when this elevation is exceeded the normal inside shoulder pivot point is to be used.

When the degree of curvature exceeds 10°, the inside edge of the Pavement slab or the inside shoulder of the Graded or Surfaced Section is to be widened from the normal inside edge or shoulder, respectively, as shown by the table and plan or by cross-sections. Curves of 10° or less are not to be widened.

The slope of the shoulders and widened sections shall conform to the rate per foot width of roadway required, except that the inside shoulder of paved sections shall maintain the Typical Section slope until this slope is exceeded by the required superelevation slope.

The outside ditch on superelevated Sections is to be modified, where necessary to provide drainage. Otherwise, this ditch shall conform to normal ditch section shown for Project.

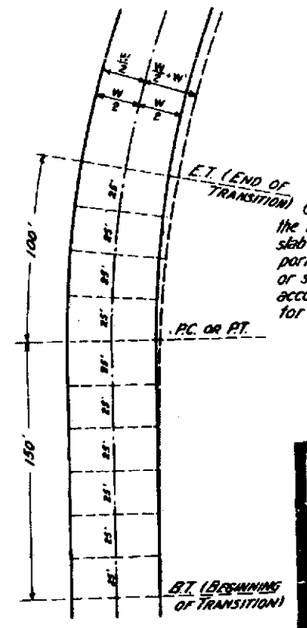
The rate of superelevation per foot width of roadway to be applied at the outside shoulder of the roadway is computed as follows:

The full superelevation per foot width of roadway rate for a given degree of curvature is

0.0105 ft. x Degree of Curvature.

The maximum superelevation of 0.10 ft. per foot width, applying to curves of 10° and over, is not to be exceeded.

Special transition problems not covered by this standard sheet shall be covered by appropriate notes included with curve data on plans.



Curves of over 10° are to have the inside portion of the pavement slab and shoulder, or the inside portion and shoulder in a graded or surfaced section, widened in accordance with the plan, offsets for widening, and cross sections.

GENERAL PLAN OF WIDENING

COLORADO
STATE HIGHWAY DEPARTMENT
STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES

Designed by R.E.L.
Made by P.B.B.
Checked by F.S.S.
January 1st 1946

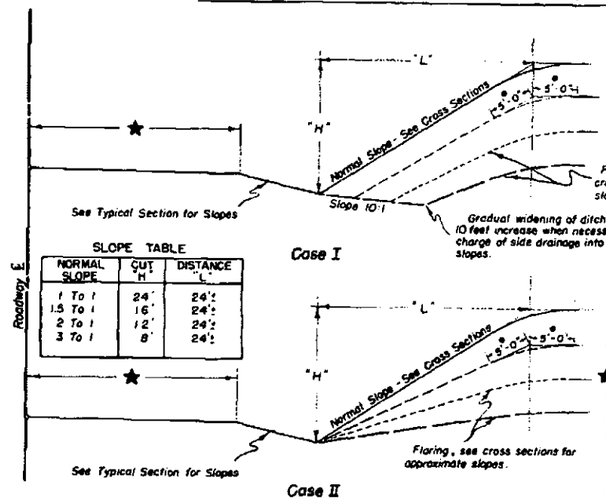
STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT & WIDENING AT BRIDGES AND AT CREST OF GRADES

STANDARD M-2-DM

Rev 7-12-49, C.G.M., Details for widening at Crest of Grades
Rev. 12-7-49, C.G.M., Rev. notes re Type I Rd. Apprs. & widen. at Bridge Apprs., added note re accell. & decell. lanes

DIVISION NO.	DISTRICT	SHEET NO.	TOTAL SHEETS
9.	COLO.	F020-(8)	16

GENERAL DETAILS FOR FLARING OF EARTH CUTS, CUT SLOPE TREATMENT & WIDENING AT BRIDGES



SLOPE TABLE

NORMAL SLOPE	CUT "H"	DISTANCE "L"
1 To 1	24'	24'±
1.5 To 1	16'	24'±
2 To 1	12'	24'±
3 To 1	8'	24'±

FLARING OF EARTH CUTS: The backslopes at ends of all earth cuts shall be flattened & where necessary the ditch shall be widened gradually to discharge side ditch drainage away from the base of adjacent fill slopes in order to avoid erosion & to improve appearance. The transition of flattened backslopes & widened ditch shall be constructed in such a manner that a uniform appearance of slope & ditch results. Backslopes shall be flared to the approximate "L" distance shown on Slope Table included with this detail. Rock cuts shall not be flared.

Flaring with widened ditch, see cross sections for approximate slopes.

Gradual widening of ditch to minimum of 10 feet increase when necessary to avoid discharge of side drainage into adjoining fill slopes.

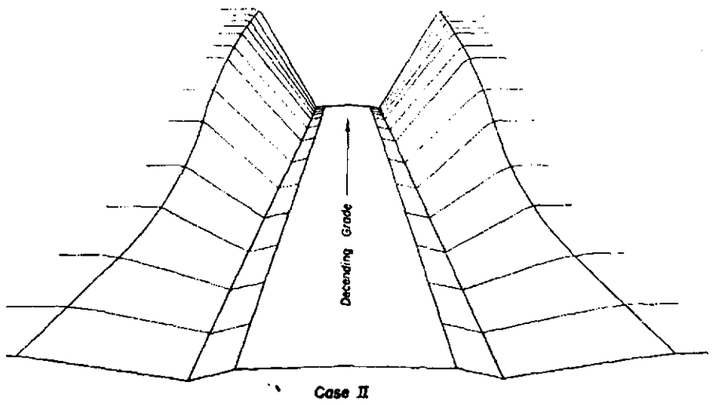
▲ CUT SLOPE TREATMENT IN EARTH CUTS: The intersection of cut slopes with the existing ground shall be rounded in earth cuts, beginning 5 ft. outside the slope stake and extending 5 ft. down the cut slope. Where the cut slope is less than 5 ft. reduce each of the above widths of slope treatment to the actual slope distance. Quantities shall be included in "Unclassified Excavation".

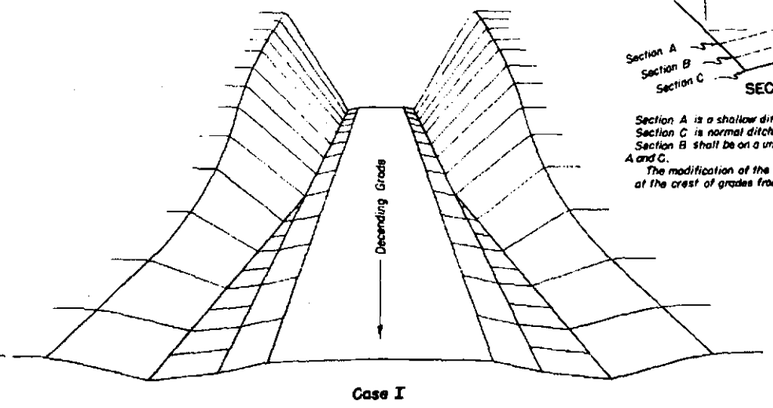
★ WIDENING AT BRIDGE APPROACHES: Roadway embankment at bridge approaches shall be so constructed that the finish point of the subgrade shoulder is a Min. of 2 ft. beyond the outside edge of bridge deck. Where widening of the section is necessary to achieve this result it shall take place gradually over a distance of 300 ft. This is done to accomodate guard fence and/or guard or marker posts at bridge approaches. (See additional requirements for Guard Fences below)

WIDENING TO ACCOMODATE GUARD FENCES: At all locations on the project (except as provided above for bridge approaches) where guard fence is to be constructed the shoulders shall be widened 2 ft. to provide additional lateral support for guard fence posts.

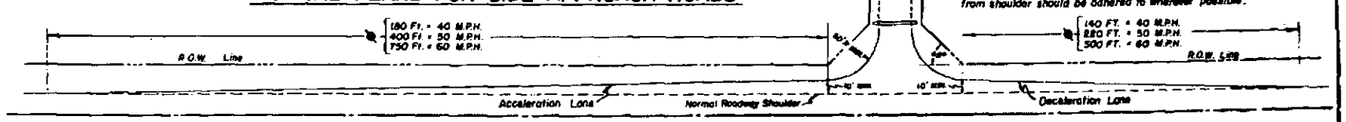
PLAN OF FLARING IN EARTH CUTS





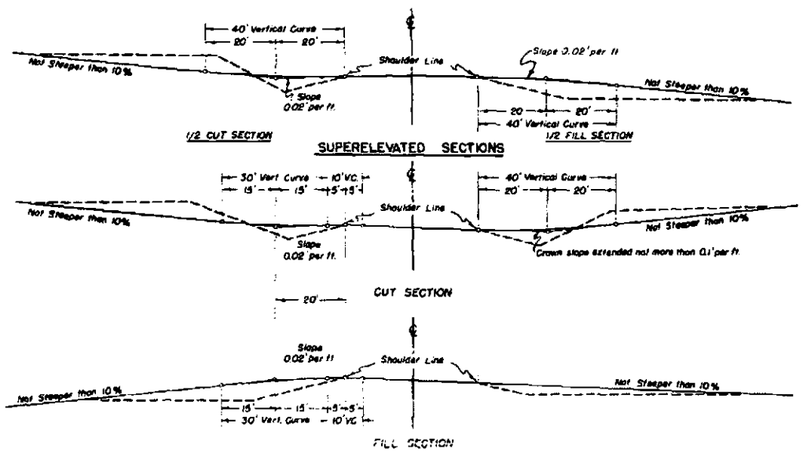


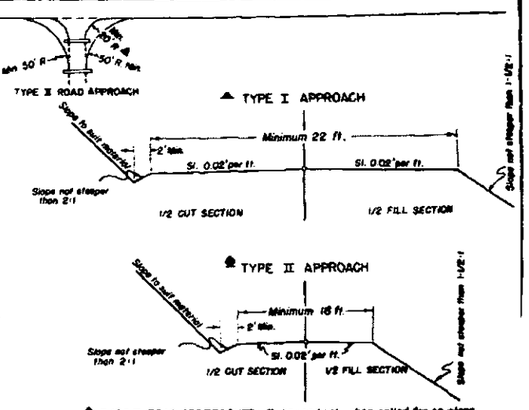
TYPICAL PLANS FOR SIDE APPROACH ROADS



SIDE DRAINS: To be placed at greatest feasible distance from the roadway shoulder consistent with good practice. A minimum of 20 ft. from shoulder should be adhered to wherever possible.

Values shown are general, see plans for specific requirements of each Type I Road Approach.





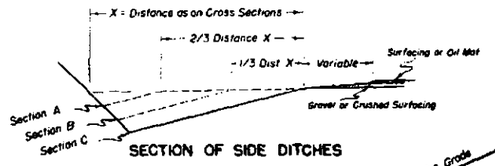
▲ TYPE I ROAD APPROACHES: To be used only when called for on plans. The width of crowned section shall not be less than the existing crowned width of the approaching road but in no case shall less than twenty two (22) feet.

★ TYPE II ROAD APPROACHES: To be used at all places which are not indicated as "Type I Road Approaches". The width of crowned section shall not be less than the existing crowned width of the approaching road but in no case shall be less than sixteen (16) feet.

▲ 20 FT. RADII: To be used only on private road approaches.

DETAILS FOR DITCH & WIDENED SHOULDERS AT CREST OF GRADES

(TO BE USED ONLY WHERE SIGHT DISTANCE AT CREST OF GRADE IS 600 FT. OR LESS)

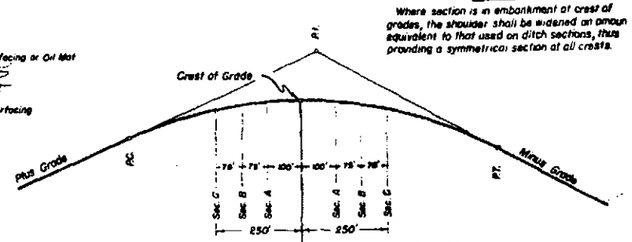


SECTION OF SIDE DITCHES

Section A is a shallow ditch section.
Section C is normal ditch section
Section B shall be on a uniform transition between Sections A and C.
The modification of the ditch indicated shall be used only at the crest of grades from which drainage breaks both ways.

NOTE

Where section is in embankment at crest of grades, the shoulder shall be widened an amount equivalent to that used on ditch sections, thus providing a symmetrical section at all crests.



PROFILE VIEW SHOWING DISTANCES AND RELATIVE POSITIONS OF DITCH-TREATMENT SECTIONS

GENERAL NOTES

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department applicable to the Project.

All side approach roads to the Project shall be Gravel Surfaced with a four (4) inch thickness of "Gravel or Crushed Rock Surfacing" extending approximately to the Right of Way Line. Estimated tonnage & type of material required for this operation are shown in the Surfacing Plan.

The maximum grades shown are to be the limiting grades for all road approaches. Modifications of grades will be permitted where adherence to the grades as shown would cause damage to property or create other unsatisfactory conditions. Grades less than the maximum shown are to be used wherever feasible.

COLORADO
STATE HIGHWAY DEPARTMENT

STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT, & WIDENING AT BRIDGES AND AT CREST OF GRADES

Designed by A.Z
Made by C.G.M.
Checked by J.W.S.

Approved by [signature]
Engineer, Surveys & Plans
Date: April 20th, 1949

STANDARD M-2-DM

REVISIONS

STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS

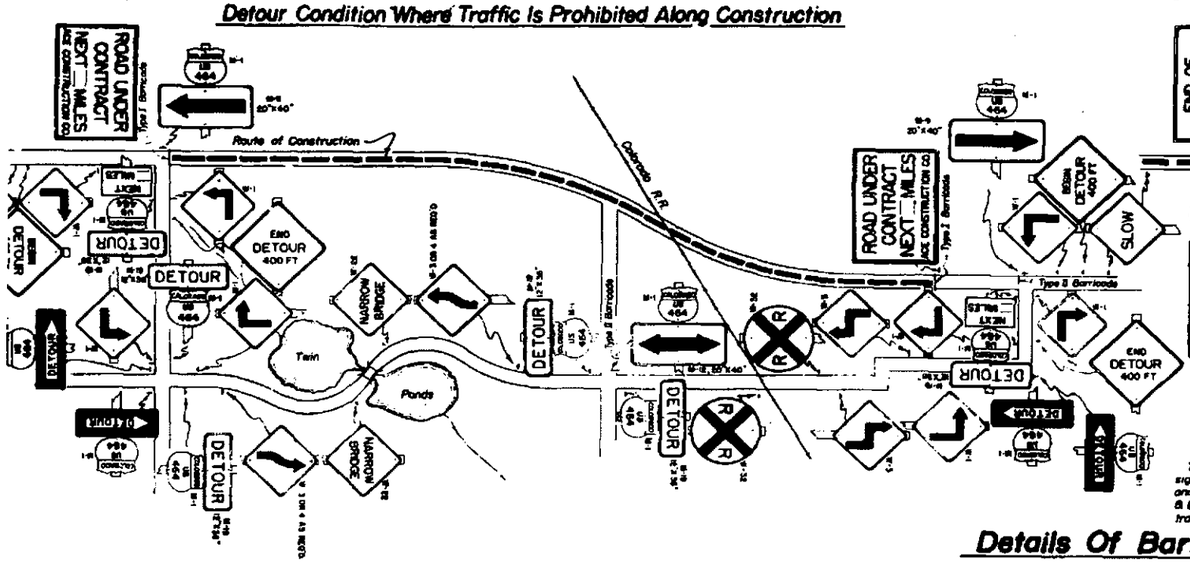
STANDARD M-2-DS

FED. ROAD DIVISION NO.	DISTRICT	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-(6)	77

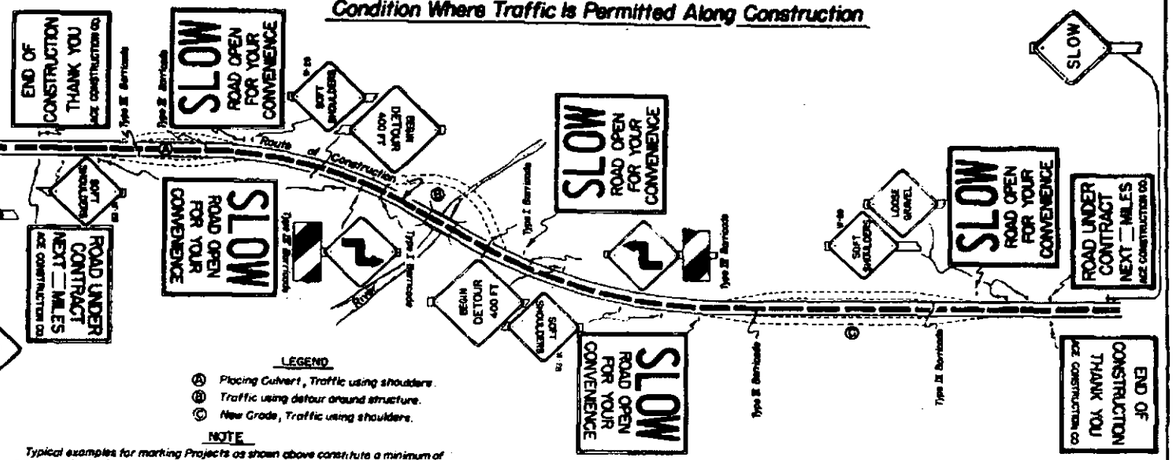
REV.-8/16/49-E.E.O.
REV.-2/3/50-E.A.R.

Typical Methods Of Marking Highways & Detours

Detour Condition Where Traffic Is Prohibited Along Construction



Condition Where Traffic Is Permitted Along Construction



LEGEND

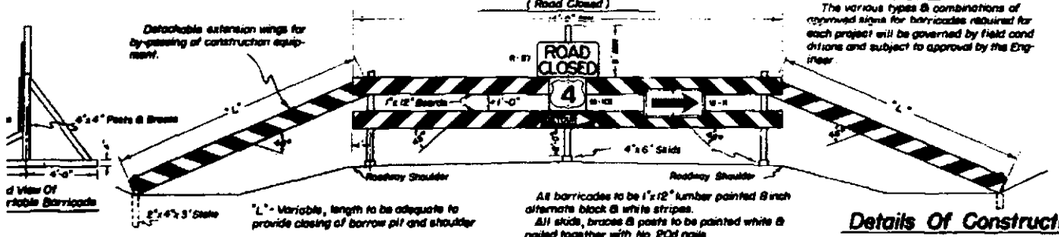
Ⓐ Placing Culvert, Traffic using shoulders.
Ⓑ Traffic using detour around structure.
Ⓒ New Grade, Traffic using shoulders.

NOTE

Typical examples for marking Projects as shown above constitute a minimum of signs required. Additional markings & any special signs required for the guidance and protection of traffic will be done under the direction of the Engineer. Contractor's & Engineers equipment must be parked so that signs & barricades are visable to traffic at all times.

Details Of Barricades

Type I
(Road Closed)



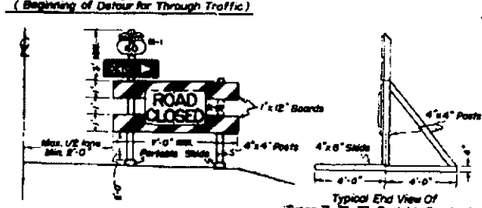
"L" - Variable, length to be adequate to provide closing of borrow pit and shoulder

NOTE

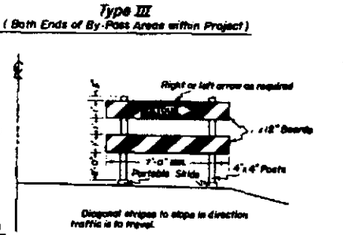
The various types & combinations of approved signs for barricades required for each project will be governed by field conditions and subject to approval by the Engineer.

All barricades to be 1"x12" lumber painted 8 inch alternate black & white stripes.
All skids, braces & posts to be painted white & nailed together with No. 20d nails.
Bases to be weighted where necessary to provide stability

Type II
(Beginning of Detour for Through Traffic)

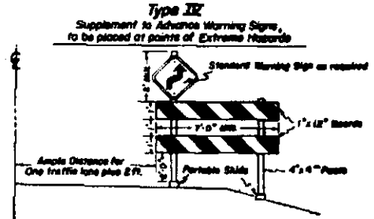


Type III
(Both Ends of By-Pass Areas within Project)



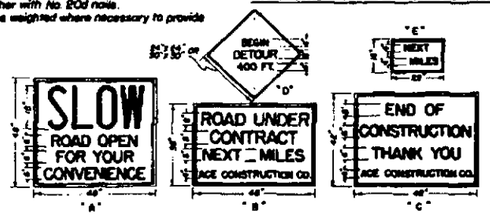
Diagonal stripes to slope in direction traffic is to travel.

Type IV
Supplement to Advance Warning Signs, to be placed at points of Extreme Hazards



Typical End View Of Types II, III, IV, Portable Barricades

Details Of Construction Signs

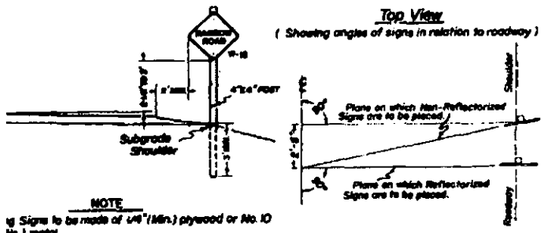


MARKINGS

Construction Sign "A" - to be of 1" material painted White, the word "SLOW" lettered in Red, balance of lettering to be Black.
Construction Signs "B", "C", "E" - to be of 1" material painted White, all lettering to be Black.
Detour Warning Sign "D" to be of 1/4" (min.) plywood or No. 10 (min) gauge metal, painted Yellow, all lettering to be Black.
Construction Signs - "B", "E" - 3/4"x9" metal slides to be placed between words "Next & Miles" spaced so as to accomodate appropriate size numerals. Required numerals to be furnished by the Department and to be installed by the Contractor.
Signs to be fastened to 2- 4"x4" posts set 4 ft. in the ground with a minimum of 3 cleats on the back.

Position Of Signs Relative To Roadbed & Hazards

Top View
(Showing angles of signs in relation to roadway)



NOTE

g Signs to be made of 1/8" (Min.) plywood or No. 10 (Min.) metal
on to be governed by field conditions. Exact location ted by the Engineer. In all cases warning signs are to l well in advance of hazard, the distance depending ority, and existing approach speeds.

Details Of Reflectorized Arrows



WARNING: *A White Reflectorized Arrow of "Scotchlite" Reflective Sheeting or suitable equivalent to be placed on a Black background. Letters to be 4" in height.*

TYPES III-A, III-B

WARNING: *A Black Arrow on a "Highway Yellow" background of "Scotchlite" Reflective Sheeting or suitable equivalent.*

GENERAL NOTES

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department applicable to the Project

Where traffic is maintained through or over any part of the Project, the Contractor will be required to mark all hazards within the limits of the Project with white painted, well maintained Barricades, Warning Signs and Directional Type Signs. All Barricades & Signs shall be moved, added to, changed or removed as required during the progress of construction.

All Warning & Directional Type Signs will be "Reflectorized" with "Scotchlite" Reflective Sheeting or a suitable equivalent. Except for variations noted on this sheet all signs will be in conformity with the specifications outlined in "Manual on Uniform Traffic Control Devices for Streets & Highways" issue of August 1948 by the U.S. Public Roads Administration. U.S. or State Route Markers required for the Project will be furnished by the Department and installed by the Contractor. Numbers adjacent to signs refer to Standards in the Manual.

The Contractor shall furnish & install the following as required within the limits of the Project:

1.	All Barricades	As Required
2.	"SLOW, ROAD OPEN FOR YOUR CONVENIENCE" Signs	Minimum-2
3.	Standard Warning & Directional Signs	As Required
4.	"ROAD UNDER CONTRACT, NEXT _ MILES, CONTRACTORS NAME" Signs	Minimum-2
5.	Approved Directional Arrows for Barricades	As Required
6.	"END OF CONSTRUCTION, THANK YOU, CONTRACTORS NAME" Signs	Minimum-2
7.	Torches and Flares as follows: Type I Barricades	Minimum-3
	Type II, IV Barricades	Minimum-1
	Standard Warning Signs	Minimum-1

Where traffic is prohibited from the Project, the Detour will be marked by the Department except for Barricades complete with approved Warning Signs & Arrows which will be provided, erected & maintained by the Contractor at ends of Project and intersecting roads.

All lumber used shall be of sound durable material. Barricades, Signs, Symbols & Lettering conforming to styles noted hereon will be well painted & maintained. Uneven or smeared lettering will not be accepted.

Flares and Torches shall be of the Oil Burning Type approved by the Department and shall be placed 3 ft. to 5 ft. ahead of the object to be illuminated. Particular care shall be taken to protect all signs and barricades from smoke and smudge arising from torches and flares.

COLORADO
STATE HIGHWAY DEPARTMENT

Standard Roadway Construction Traffic Signs

Designed by	Approved: [signature]
Made by C.G.M.	Engineer, State Highway Engineer
Checked by	Date: 7-25-1949

ID M-2-DS

REVISIONS

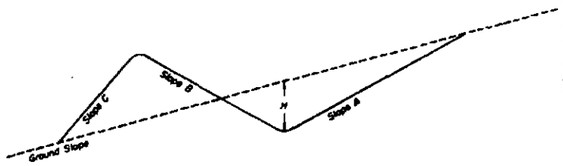
STANDARD TYPES of DITCHES and CONSTRUCTION METHODS

STANDARD M-107-C

FED. ROAD DIVISION NO.	DISTRICT		SHEET NO.	TOTAL SHEETS
9.	COLO.	F020-1(3)	8	

DETAILS for CONTOUR INTERCEPTING DITCHES

Typical Section for Contour Intercepting Ditches



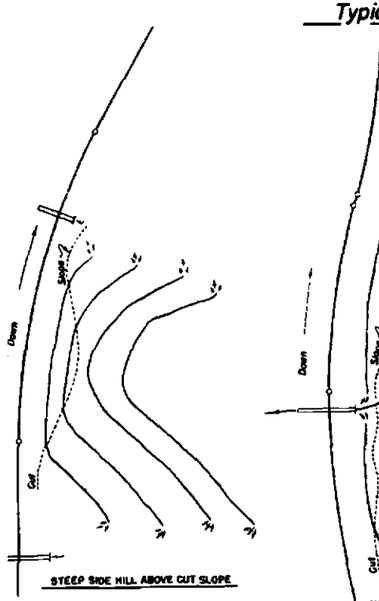
PURPOSE & USE OF THE TABLE

The primary purpose of the information for Contour and Intercepting Ditches shown on this sheet is to serve as a guide in construction and to readily arrive at yardages of excavation involved.

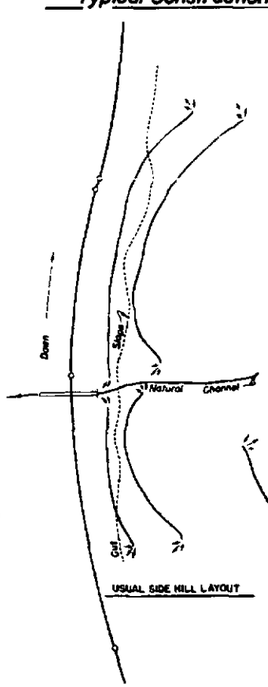
Foremost consideration in constructing these ditches is given first to the natural ground line slope confronted in construction, thence to the other values shown on the Typical Section.

By properly arriving at the combination of values shown on the Typical Section and in the Table for a specified condition, the number of cubic yards of excavation per 100 lin. ft. of ditch may be read under the appropriate column for this item.

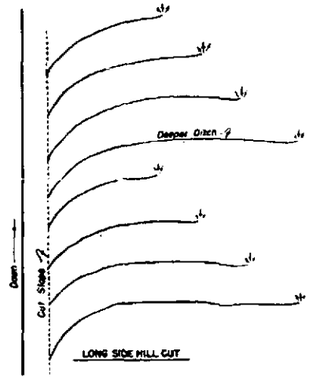
Typical Construction Layouts



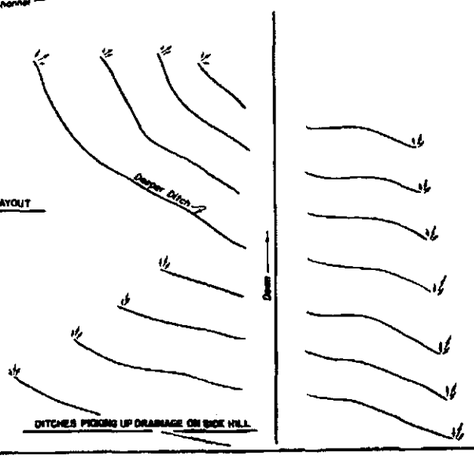
STEEP SIDE HILL ABOVE CUT SLOPE



USUAL SIDE HILL LAYOUT



LONG SIDE HILL CUT



DITCHES PICKING UP DRAINAGE ON SIDE HILL

Scale of Sketches in Feet

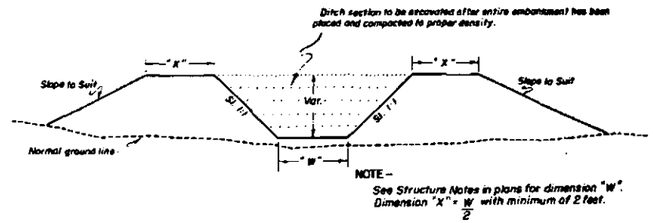
0 0 100 200 300 400

Table of Slopes and Yardages

▲ SLOPES Ground	A	B	C	H	Cubic Yards per 100 lin. ft. of Ditch
5:1 Or Flatter	2:1	4:1	2:1	15"	16
				18"	23
				21"	32
		3:1		15"	15
				18"	22
				21"	30
		2:1		15"	14
				18"	20
				21"	27
		1-1/2:1		15"	13
				18"	19
				21"	25
	1-1/2:1	4:1	1-1/2:1	15"	12
				18"	18
				21"	25
		3:1		15"	12
				18"	17
				21"	23
		2:1		15"	10
				18"	15
				21"	20
		1-1/2:1		15"	10
				18"	14
				21"	19
4:1	2:1	4:1	2:1	15"	17
				18"	25
				21"	34
		3:1		15"	17
				18"	24
				21"	32
		2:1		15"	15
				18"	22
				21"	30
		1-1/2:1		15"	15
				18"	21
				21"	29
	1-1/2:1	4:1	1-1/2:1	15"	13
				18"	18
				21"	25
		3:1		15"	12
				18"	17
				21"	23
		2:1		15"	11
				18"	16
				21"	21
		1-1/2:1		15"	10
				18"	14
				21"	20
3:1	2:1	3:1	2:1	15"	22
				18"	31
				21"	43
		2:1		15"	21
				18"	30
				21"	41
		1-1/2:1		15"	20
				18"	29
				21"	40
	1-1/2:1	3:1	1-1/2:1	15"	13
				18"	19
				21"	26
		2:1		15"	12
				18"	17
				21"	24
		1-1/2:1		15"	12
				18"	17
				21"	23
2:1	1-1/2:1	2:1	1-1/2:1	15"	20
				18"	29
				21"	40
		1-1/2:1		15"	20
				18"	28
				21"	39
	1:1	2:1	1:1	15"	9
				18"	13
				21"	17
		1-1/2:1		15"	8
				18"	12
				21"	16
1-1/2:1	1:1	1-1/2:1	1:1	15"	11
				18"	16
				21"	21

▲ Slopes are approximate and may be varied to suit conditions encountered during construction.

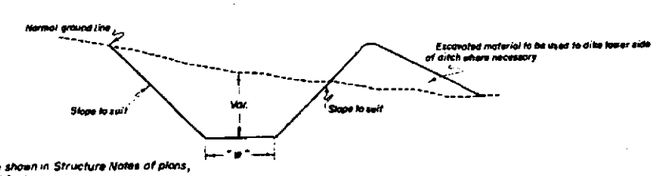
TYPICAL SECTIONS for DRAINAGE, IRRIGATION DITCHES and CHANNEL CHANGES



NOTE –
See Structure Notes in plans for dimension "W".
Dimension "X" = $\frac{W}{2}$ with minimum of 2 feet.

For Embankment Sections

(Generally for use in Irrigation Ditches & Channel Changes)



NOTE –
Unless otherwise shown in Structure Notes of plans, dimension "W" = 1 foot.

For Cut Sections

GENERAL NOTES

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department applicable to the Project.

All ditches are to be constructed to lines and grades as staked by the Engineer using the ditch section shown on plans or as ordered by the Engineer.

CONTOUR INTERCEPTING DITCHES: Ditches are to be laid out along the ground contour on a grade of not over 1%. (Type of soil shall govern the grade).

Ends of ditches are to be lined up so that concentration of flow from a higher contour ditch into one of lower contour is, as far as possible avoided. The use of a deeper ditch is recommended where this condition is encountered.

The following horizontal spacing of ditches is recommended:

4% to 6%	Approximately 70' Centers
8% to 10%	Approximately 60' Centers
20% to 4:1 Slope	Approximately 55' Centers
30% to 1-1/2:1 Slope	Approximately 50' Centers

Where ditch checks are required the intervening ditch between one set of ditch checks shall not exceed a grade of 1.0%. Details of checks will be shown on plans when required.

COLORADO
STATE HIGHWAY DEPARTMENT

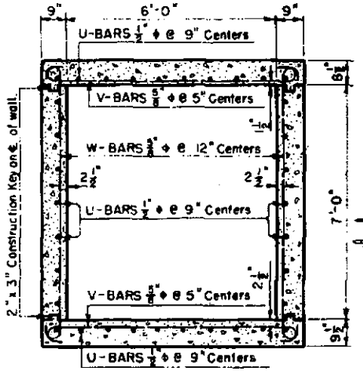
Standard Types of Ditches and Construction Methods

Designed by C.G.M.	Approved by W. Marshall
Made by C.G.M.	Engineer of Surveys & Plans
Checked by	Date: Aug. 18, 1950

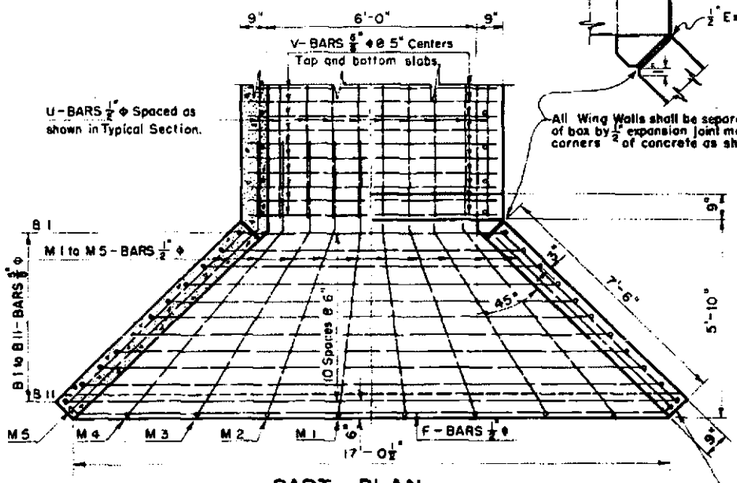
REVISIONS

STANDARD M-101-C

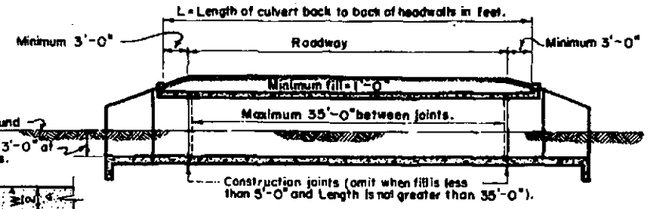
FED. ROAD DIST. NO.	STATE	SHEET NO.	TOTAL SHEETS
3	COLO.	[redacted]	



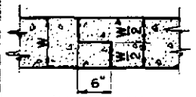
TYPICAL SECTION THRU BOX



PART PLAN

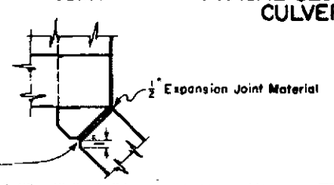


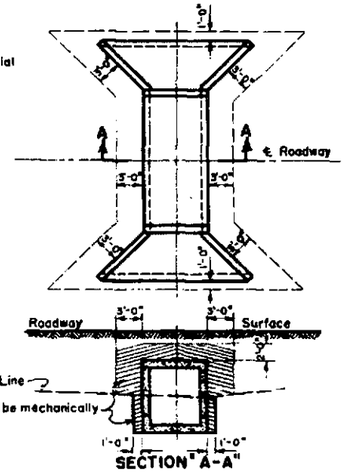
Floor at both ends of culvert shall be laid to a depth of not less than 3'-0" below original ground (drainage to be obtained by excavating overflow channel).



HALF LAP CONSTRUCTION JOINT

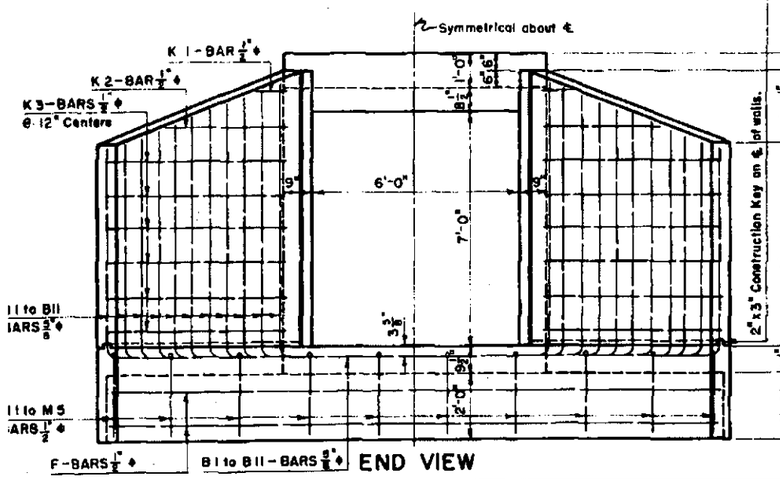
TYPICAL SECTION SHOWING RELATION OF CULVERT TO ROADWAY



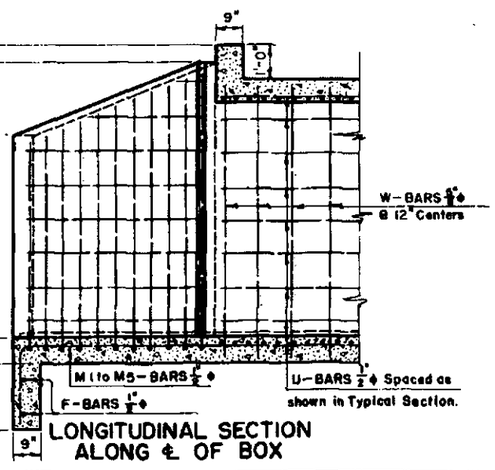


Contractors attention is called to specifications covering Mechanical Tamping. Special care shall be taken to prevent deflection of the wing walls by wedging action.

MECHANICALLY TAMPED BACKFILL



END VIEW



LONGITUDINAL SECTION ALONG ℄ OF BOX

GENERAL NOTES

All work shall be done according to the Standard Specifications of the Colorado State Highway Department, adopted January 1, 1948.

All concrete shall be class "A".

Horizontal construction keys not required when floor and side walls are poured monolithically.

All walls shall have forms on both sides.

Minimum distance between centerline of bar and edge of concrete shall be one and one-half inch.

All construction joints shall be thoroughly cleaned before fresh concrete is poured.

Footings in rock shall be poured out to the rock and not formed.

For culverts required and governing dimensions see "List of Structures."

All reinforcing bars shall be deformed.

All reinforcing bars shall be tagged with the station number and letter designation.

Secondary bars when spliced shall be given a lap of fifty diameters.

Main bars shall not be spliced.

Soundings and depth of footings shown are according to the best available data, if essentially different conditions are encountered the engineer will inspect and determine if redesign is necessary.

Pour wing footing monolithically with floor of box.

The use of additional construction joints undesirable, should field conditions require, construction joints may be made on a vertical plane perpendicular to the centerline of culvert and shall be half-lap joints as shown in detail.

This design not to be used when height of fill exceeds 13'-0".

Supporting soils for all culverts must be composed of firm and uniform material throughout.

All backfilling in approaches to and over culverts shall be laid in layers not exceeding six inches in depth and each layer shall be compacted in accordance with the diagram for mechanically tamped backfill shown on this drawing.

All surfaces exposed to view on the box and wing walls shall receive class I surface finish, except culvert barrel.

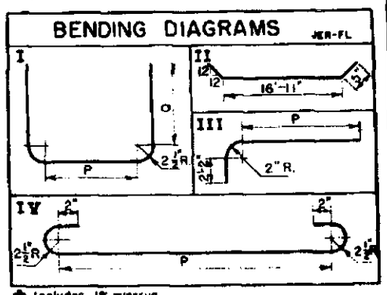
BAR LIST

PER FL.

MARK	SIZE	NO REQ'D.	LENGTH	BEND	DIMENSIONS P	DIMENSIONS Q
B1 to B11	⅝" ϕ	2 Each	23'-9" by 7" to 29'-7"	I	7'-0" by 1'-0" to 17'-0"	6'-0" by 2½" to 5'-11½"
F	1" ϕ	4	17'-9"	II		
K1	½" ϕ	4	1'-9"	STR.		
K2	½" ϕ	4	5'-1"	STR.		
K3	½" ϕ	24	7'-2"	STR.		
M1 to M5	½" ϕ	4 Each	9'-11" by 6" to 11'-11"	III	7'-6" by 6" to 9'-6"	FIELD BEND WHERE NECESSARY
U	½" ϕ	34	L+1'-2"	STR.		
V	⅝" ϕ	(48xL)+8	8'-4"	IV	6'-8"	
W	⅝" ϕ	(2xL)+4	9'-4"	IV	7'-8"	

BENDING DIAGRAMS

PER FL.



ϕ Includes 1% overrun.

SUMMARY OF QUANTITIES

PER FL. BDE

ITEM NO	DESCRIPTION	UNIT	FOR ONE LINEAR FT. OF BOX	FOR TWO HEADWALLS
46a	CLASS "A" CONCRETE	Cu.Yd.	.81	13.75
47	REINFORCING STEEL	Lb.	ϕ 85	ϕ 1085

NOTE: TO BE USED AS STOCK PASS ONLY.

MINIMUM FILL = 1'-0", MAXIMUM FILL NOT TO EXCEED 13'-0".

LOADING DATA

LIVE LOAD: A.A.S.H.O. 1944 H20-S16

DEAD LOAD:
Earth = 120 lbs. per cu. ft.
Concrete = 150 lbs. per cu. ft.

DESIGN DATA

fc = 1,000 lbs. per sq. in.
fs = 20,000 lbs. per sq. in.
n = 10

COLORADO
STATE HIGHWAY DEPARTMENT

SPECIAL 6 FT. x 7 FT. CONCRETE BOX CULVERT FOR STOCK PASS

Sta. _____
Near _____ Sec. _____ T. _____ R. _____

Designed by W.W.D.	Approved by Ed Bailey
Made by J.E.R.	Bridge Engineer
Checked by	Date: Aug. 25, 1948

STRUCTURE NO.

NOTE:

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

The 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 data on plans are encountered during construction necessary modifications of the grading plan shown on the plans will be made to secure dense, stable embankments.

Fencing Requirements, Guard Posts, & R.O.W. Markers are tabulated on Sheet No. 3.

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	19	

Rev 1-17-51 C.G.M. Deleted Ref to Marker Posts in Notes.

SE 1/4 SEC. 21
T 45N, R.13W.

N.E. 1/4 SEC. 21
T 45N, R. 13 W.

12+66.9 - Beg. Approach Section

12+66.9 - Beg'd Project Marker (State Forces)

11+20 - Beg'd. Road Approach Lt.

31+40 - End'd Road Approach Lt.

P.I. 9+37½

ST 12+66.9

90°20'

Δ 90°06' Rt.
Δ 52°06' Rt.
R 12°
T 246.4
L 443.6
Rc 409.3

C.S. 10+66.9

ST. 12+66.9 = BEG. F020-1(2)=
STA. 150+45.7 ON F.A.P. 103 =
150+45.7 FT. S.E. OF BEG. OF F.A.P. 103

F020-1(2)

S.C. 6+23.3

C.S. 6+23.3

NORWOOD CITY LIMITS

9°14'
Ts 513.9
Ls 200.0
LT 133.8
ST 67.0

9°14'
Ts 513.9
Ls 200.0
LT 133.8
Rc 409.3

T.S. 4+23.3

-309.5-

24"X24' C.M.P.

18"X26' C.M.P.

15"X18' C.M.P.

15"X18' C.M.P.

15"X18' C.M.P.

15"X54' C.M.P.

3' Power Poles

Double Gate

County Shop

House

Hospital

3' Walk Gate

Clearing & Grubbing
Sta. 12+ to 35+ Light Sagebrush
Along Fence Rt. & Lt.

House

Walk Gate

1'X1'X6' W.B.C.

Gate

15"X18' C.M.P.

Shed

San Miguel P.E.A. Power

M.S.T. & T. Co.

N 0°20' W

15"X28.6' Siphon

Gate

15"X18' C.M.P.

House

Gate

15"X18' C.M.P.

15"X44' Siphon

29+10 - Req'd. 24' x 24' Side Drain Box Culvert

Road Approach Rt.

Fence Rt. & Lt.

SW. 1/4 SEC. 22
T 45N, R.13 W.

N.W. 1/4 SEC. 22
T 45N, R.13 W.

No 1 = A-6 (10)
LL = 36.0
PI = 15.7
% -200 = 88.9
C.B.R. = 2.4

No 2 = A-6 (10)
Similar to No. 1
C.B.R. = 2.4

No 3 = A-6 (12)
LL = 33.0
PI = 18.3
% -200 = 82.6
C.B.R. Interp. from No 1 & 4 = 2.7

7000
6990
6980
6970
6960

EXCAV. FACTOR
EXCAV.
EXCAV. X FACTOR
EMBANK.
STA. YD. O.H.
YD. MI. O.H.
BORROW
BORROW SOURCE

10 15 20 25 30 35

PLATE 1-PLAN-PROFILE

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	20	

Rev. 11-15-50 R.S.M.-Grade

N.E. ¼ SEC. 21
T. 45 N., R. 13 W.

N 0°-20' W

San Miguel REA Power Line

House Intk.

Conc. Sidewalk

Gulley Cond.

18'X 26' C.M.P.

15'X 26' SIPHON

18'X 30' Siphon

15'X 18' C.M.P.

15'X 18' C.M.P

M.S.T.B.T. Co.

Present Road

Willows

N 69°-52' W

P.I. 62+27.8

P.I. 57+36.2

P.C. 50+85.6

D = 68° 32' Lt.
T = 6°00'
L = 650.6
R = 1142.2
M = 955.0
Hor. Sc. = 1"=100'

49+65 to 54+00 ~ Req'd. Ditch Change Lt.

44+60 ~ Req'd. Road Approach Lt.

50+65 ~ Req'd. 24"x48' Cross Culvert & "A" Headwalls & Ditches

54+00 ~ Req'd. 18"x44' Cross Culvert & Outlet Ditch

54+50 ~ Relay 18"x52' C.M.P. (26' from 42+50 & 26' from 63+90) as Side Drain & Road Approach Pt.

36+50 ~ Req'd. 24"x46' Cross Culvert & Ditches (No Headwalls Req'd.)

42+50 ~ Req'd. 24"x48' Cross Culvert & Ditches (No Headwalls Req'd.) Relay 18" 26' C.M.P. as Side Drain Apt. of Sta. 54+50

43+20 ~ Req'd. Road Approaches Rt. & Lt.

63+90 ~ Req'd. 24"x56' Cross Culvert & Outlet Ditch (No Headwalls Req'd.) (Outlet Ditch to Connect to 18" C.M.P. under Canal) Relay 18"x26' C.M.P. as Side Drain Rt. Sta. 54+50

Clearing & Grubbing

35+ to 39+ Heavy Willows along Fence Rt. & Lt.
39+ to 43+ Light Sage along Fence Rt. & Lt.

Clearing & Grubbing
57+ - 59+ Heavy Willows Lt.

N.W. ¼ SEC. 22
T. 45 N., R. 13 W.

S.E. ¼ SEC. 16
T. 45 N., R. 13 W.

No. 4 - A-6 (13)
LL = 40.0
PI = 21.3
% -200 = 81.0
C.B.R. = 2.9

No. 5 - A-6 (13)
Similar to No. 4
C.B.R. = 2.9

No. 6 - A-6 (13)
Similar to No. 4
C.B.R. = 2.9

-0.683 %

+0.133 %

-0.960 %

-1.593 %

0.85%

200' V.C.

100' V.C.

100' V.C. - N.P.S.D. 1040'

100' V.C. - N.P.S.D. 830'

P.I. No. 6+42.0

6. Sunnyside Pit Haul = 0.7 Miles to P.I. 52+00

1655 - 0.9C = 1655

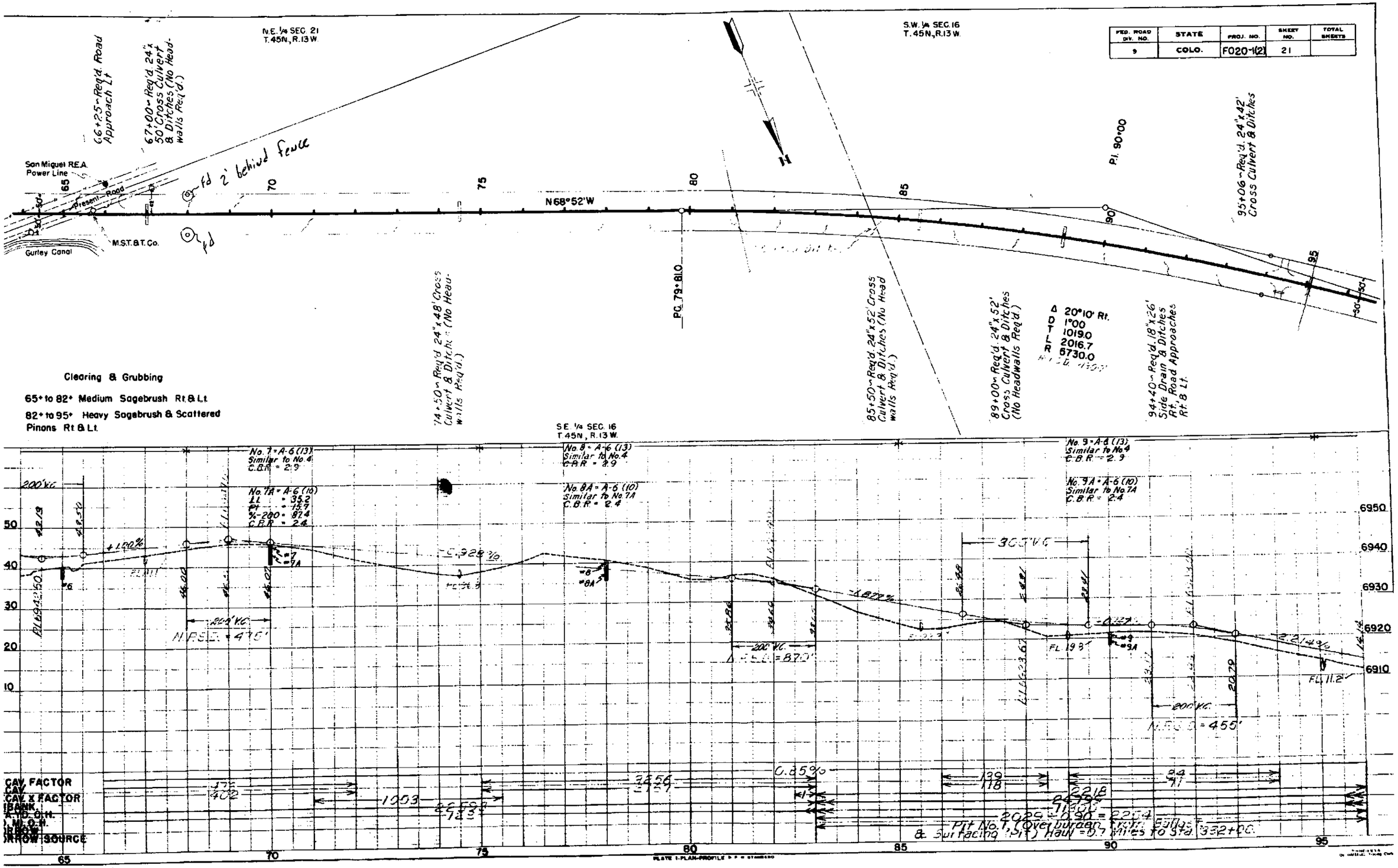
2165

EXCAV. FACTOR		
EXCAV.	245	
EXCAV. X FACTOR	208	
EMBANK.		
STA. YD. O.H.		
YD. MI. O.H.		
BORROW		
BORROW SOURCE		

6970
6960
6950
6940
6930

35 40 45 50 55 60 65

PLATE 7-PLAN-PROFILE A. P. W. A. STANDARD



FED. ROAD DIV. NO. 9
STATE COLO.
PROJ. NO. F020-1(2)
SHEET NO. 21
TOTAL SHEETS
N.E. 1/4 SEC. 21 T.45N., R.13W.
S.W. 1/4 SEC. 16 T.45N., R.13W.
S.E. 1/4 SEC. 16 T.45N., R.13W.
66+25~Req'd. Road Approach Lt
67+00~Req'd. 24"x 50' Cross Culvert & Ditches (No Head-walls Req'd.)
San Miguel R.E.A. Power Line
Present Road
M.S.T.&T.Co.
Gurley Canal
fd 2' behind fence
N68°52'W
P.I. 90+00
95+06~Req'd. 24"x42' Cross Culvert & Ditches
74+50~Req'd. 24"x48' Cross Culvert & Ditches (No Head-walls Req'd.)
85+50~Req'd. 24"x52' Cross Culvert & Ditches (No Head walls Req'd.)
89+00~Req'd. 24"x52' Cross Culvert & Ditches (No Headwalls Req'd.)
94+40~Req'd. 18"x26' Side Drain & Ditches Rt. Road Approaches Rt. & Lt.
Δ 20°10' Rt.
D 1°00
T 1019.0
L 2016.7
R 5730.0
Clearing & Grubbing
65+ to 82+ Medium Sagebrush Rt. & Lt.
82+ to 95+ Heavy Sagebrush & Scattered Pinons Rt. & Lt.
No. 7 = A-6 (13) Similar to No. 4 C.B.R. = 2.9
No. 7A = A-6 (10) LL = 35.2 PI = 15.7 %-200 = 87.4 C.B.R. = 2.4
No. 8 = A-6 (13) Similar to No. 4 C.B.R. = 2.9
No. 8A = A-6 (10) Similar to No. 7A C.B.R. = 2.4
No. 9 = A-6 (13) Similar to No. 4 C.B.R. = 2.9
No. 9A = A-6 (10) Similar to No. 7A C.B.R. = 2.4
200' V.C.
300' V.C.
N.P.S.D. = 475'
N.P.S.D. = 870'
N.P.S.D. = 455'
FL. 19.3
FL. 11.2
CAV. FACTOR
CAV.
CAV. X FACTOR
BANK
A.YD. O.H.
M.O.H.
ROW
ORROW SOURCE
Pit No. 1, (Overburden from Bulge & Surfacing Pit) Haul = 0.7 Miles to Sta. 332+00.
PLATE 1-PLAN-PROFILE

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	22	

Rev. 11-15-50 R.S.M.- Grade & C.M.P. Sta. 119+60
Rev. 12-20-50 R.S.M.- Sta. of County Line

S.W. ¼ SEC. 16
T. 45 N., R. 13 W.

N.E. ¼ SEC. 17
T. 45 N., R. 13 W.

N.W. ¼ SEC. 16
T. 45 N., R. 16 W.

97+30 ± Req'd. 24"x 54' Cross Culvert & Ditches

P.T. 99+97.7

101+70 ± Req'd. 18"x 36' Cross Culvert & Ditches

106+50 ± Req'd. 24"x 48' Cross Culvert & Ditches & 24"x 14' C.M.P. under Raised Ditch Lt. and Grouted Rubble Slope & Ditch Paving Lt. (12" thick) (No Headwalls Req'd.)

104+70 to 108+50 ± Req'd. Ditch Change Lt. (Raised Ditch)

110+00 ± Req'd. Road Approaches Rt. & Lt.

112+00 ± Req'd. 24"x 52' Cross Culvert & Ditches (No Headwalls Req'd.)

118+00 ± Req'd. Road Approach Lt.

STA. 116+22.0

119+40 ± Relay 15"x 18' C.M.P. (from Sta. 33+30) as Side Drain & Road Approach Rt. & Ditches.

119+60 ± Req'd. 24"x 43' Cross Culvert & Ditches

123+50 ± Req'd. 18"x 40' Cross Culvert & Ditches

123+75 ± Req'd. Road Approaches Rt. & Lt.

124+00 to 153+50 ± Req'd. Ditch Change Rt. (Irrigation waste ditches)

N 46°42' W

SAN MIGUEL CO.
MONTROSE CO.

Contour Ditches

M.S.T. & T. Co.

Farm Road

Irrig.

Irrig.

Irrig.

Flume

Clearing & Grubbing
95+ to 114+ Medium Sagebrush Rt. & Lt.
114+ to 125+ Cultivated Land

No. 10 = A-6 (13)
Similar to No. 4
LL = 40.0
PI = 21.3
%-200 = 81.0
C.B.R. = 2.9

No. 10A = A-6 (10)
Similar to No. 7A
C.B.R. = 2.4

No. 11 = A-6 (11)
LL = 34.6
PI = 16.3
%-200 = 83.6
C.B.R. Interp. from
No. 1 & 4 = 2.7

No. 11A = A-6 (11)
LL = 33.8
PI = 16.8
%-200 = 83.2
C.B.R. Interp. from
No. 1 & 4 = 2.7

No. 12 = A-6 (11)
Similar to No. 11
C.B.R. Interp. from
No. 1 & 4 = 2.7

No. 12A = A-7-6 (10)
LL = 41.8
PI = 14.9
%-200 = 88.4
C.B.R. Interp. from
No. 39A = 12.1

No. 12B = A-4 (8)
LL = 35.7
PI = 9.8
%-200 = 84.0
C.B.R. Interp. from
No. 40 = 4.5

EL. 11.2
EL. 90.0
EL. 90.5
EL. 88.1
EL. 87.2
EL. 89.10
EL. 88.82
EL. 88.77
EL. 89.7
EL. 84.7

2.31 %
0.11 %
0.85 %
0.27 %
2.36 %

#10
#10A
#11
#11A
#12
#12A
#12B

100' VC.
100' VC.
400' VC.
N.P.S.D. = 1300'
N.P.S.D. = 540'

| | | |

N.E. ¼ SEC. 17
T. 45 N., R. 13 W.

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	23	

Rev. 12-20-50 R.S.M. - C.B.C. Sta. 138+10

Rev. 11-15-50 R.S.M. - Grade & C.M.P.s Sta. 137+33, 139+77, 139+85.

N.W. ¼ SEC. 17
T. 45 N., R. 13 W.

41° 12' Lt.
6°00
359.0
686.7
955.0
D = 860'
Hor. S.D. = 860'

✓ 127+00 to 151+80 ~ Req'd. Ditch Change Lt. (Irrigation head ditches)

✓ 150+50 to 151+80 ~ Adjust Borrow Ditch Rt. & Lt. Drain South East

✓ 153+50 to 160+00 ~ Req'd. Ditch Change Lt.

N 48°42' W

P.C. 153+34.3

18" X 28' CMP

Stock Yard

Stock Yard

Farm Road

M.S.T. & T. Co.

San Miguel R.E.A. Power Line

House

127+15 ~ Req'd. 18" x 38' Cross Culvert & Ditches

131+00 ~ Req'd. 18" x 40' Cross Culvert & Ditches

132+00 ~ Req'd. 18" x 26' Side Drains & Road Approaches Rt. & Lt.

137+33 ~ Req'd. 24" x 58' Cross Culvert & Ditches

138+10 ~ Req'd. 6' x 7' x 34' C.B.C. (Std. M-101-C) for Stock Pass Ramps (W=12') and Outlet Ditch (W=1')

139+77 ~ Req'd. 18" x 40' Cross Culvert & Ditches

139+85 ~ Req'd. 18" x 38' Cross Culvert & 18" x 8' C.M.P. over Irrig. Ditch Lt. & Ditches

140+00 ~ Req'd. 18" x 26' Side Drain Lt. Road Approaches Rt. & Lt.

145+00 ~ Req'd. 24" x 38' Cross Culvert & Ditches

R.O.W. ITEMS
129+50 ~ Move Stock Yard Rt.
144+50 ~ Move Stock Yard Lt.

150+10 ~ Req'd. 24" x 40' Cross Culvert & Ditches

151+60 ~ Req'd. C.M.P. Cross Culvert with Siphon Type Inlet, Trash Guard at Inlet (No Head Wall Req'd.)

153+10 ~ Req'd. Road Approach Lt.

153+80 ~ Req'd. Road Approach Rt.

Clearing & Grubbing
125+ to 155+ Cultivated Land

No. 13 = A-6 (11)
LL = 36.5
PI = 16.9
%-200 = 94.2
C.B.R. Interp. from No. 14 = 2.7

No. 14 = A-6 (11)
Similar to No. 13
C.B.R. Interp. from No. 18 = 2.7

No. 15 = A-6 (11)
LL = 37.3
PI = 18.0
%-200 = 85.8
C.B.R. Interp. from No. 14 = 2.7

No. 15A = A-6 (10)
LL = 35.2
PI = 14.1
%-200 = 86.0
C.B.R. = 2.4

DETAILS OF C.M.P. CROSS CULVERT
STA. 151+80

ST'D. METAL APRON

42.5'

FL. 85.0

METAL APRON (FOR SIPHON & TRASH GUARD)

* Angles may be either standard 45° C.M.P. elbows with connecting bands or shop cut and welded C.M.P. angle sections.

200' V.C.

P.I. 6827+60

P.I. 6824+60

P.I. 6868+70

-1.933%

-0.015%

+1.39%

-1.44%

FL. 75.2'

FL. 71.0

FL. 59.2

FL. 59.7

FL. 64.2
EL. 65.2

FL. 58.2'

FL. 51.5'

FL. 52.4

FL. 51.2

FL. 49.3'

#13

#14

#15

#15A

N.P.S.D. 695'

N.P.S.D. = 660'

100' V.C.

0.85%

Pit No. 1 (Overburden from Ballast & Surfacing P.I.T.)
Haul = 0.7 Miles to Sta. 338+00.

EXCAV. FACTOR
EXCAV.
EXCAV. X FACTOR
EMBANK.
TO L.O.M.
TO L.O.M.
BORROW
BORROW

130 / 116
15 / 13
13.78
9 / 8
141 / 126
1540.72
3669
312 / 265

PLATE I-PLAN-PROFILE U. S. STANDARD

6890
6880
6870
6860
6850
6840

125 130 135 140 145 150 155

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	24	

Rev. 11-15-50 RSM-Grade & CMPs Sta. 167+30 & 169+00.

Δ = 41° 15' Lt.
D = 6°00'
T = 359.0
L = 686.7
R = 955.0
Hor. S.D. = 6.60'
(House)

157+80 ~ Req'd. 18"x8' Side Drain under Sidewalk, Remove 1x4x6' W.B.C. & Portion of Stone Sidewalk Lt.

158+60 ~ Relay 15"x18' C.M.P. Side Drain in Irrig. Ditch & Road Approach Lt. Remove 1'x1'x16' W.B.C.

164+00 ~ Req'd 24"x64' Cross Culvert & Ditches (No Headwalls Req'd.)

166+75 ~ Req'd. Road Approach Lt.

161+35 ~ Remove Headwalls & Extend 18" C.M.P. 12' Lt. & 10' Rt. & Ditches

169+00 ~ Req'd. 18"x42' Cross Culvert & Ditches Remove 15"x26' C.M.P. with Headwalls

~ Req'd. Road Approaches Rt. & Lt.

N.W. 1/4 SEC. 17
T. 45N., R. 13W.

N

Δ = 1°15' Lt.
D = 1°00'
T = 62.5'
L = 125.0'
R = 5730.0'

N.E. 1/4 SEC. 18
T. 45N., R. 13W.

P.C. 180+69.5

P.T. 181+94.5

155 160 165 170 175 180 185

House
Stone Sidewalk
1'x1'x16' W.B.C.
15"x18' C.M.P.
P.T. 160+21.0 Bk.
161+13.9 Ah.
N 49°42' W
45°44' 260.6
18"x26' C.M.P.
15"x26' C.M.P.
N 89°54' W
15"x26' C.M.P.
16"x26' C.M.P.
15"x26' C.M.P.
M.S.T. & T. Co.
Div. Box
18"x28' C.M.P.
18"x32' Siphon
Cattle Guard
House
San Miguel R.E.A. Power Line
S 88°51' W
15"x26' C.M.P.
P.I. 156+93.3
P.I. 181+32.0
500' to Ajuma

157+10 ~ Req'd. 18"x40' Cross Culvert & Ditches

EQUATION 160+21.0 Bk. = 161+13.9 Ah.

Clearing & Grubbing
155+ to 185+ Light Sagebrush along Fence Rt. & Lt.
157+50 to 158+25 12 Fruit Trees Lt.

169+75 ~ Req'd. Road Approach Rt.

171+10 ~ Req'd. Road Approach Rt.

S.W. 1/4 SEC. 8
T. 45N., R. 13W.

S.E. 1/4 SEC. 7
T. 45N., R. 13W.

No. 16 = A-6 (11)
Similar to No. 15
C.B.R. Interp. from
No. 18A = 2.7

No. 17 = A-1-b (0)
L.L. = 22.6
P.I. = N.P.
%-200 = 18.6
C.B.R. = 19+

No. 17A = A-6 (11)
Similar to No. 15
C.B.R. Interp. from
No. 18A = 2.7

No. 18 = A-1-b (0)
L.L. = 22.6
P.I. = N.P.
%-200 = 18.6
C.B.R. = 19+

No. 18A = A-6 (11)
Similar to No. 15
C.B.R. Interp. from
No. 18A = 2.7

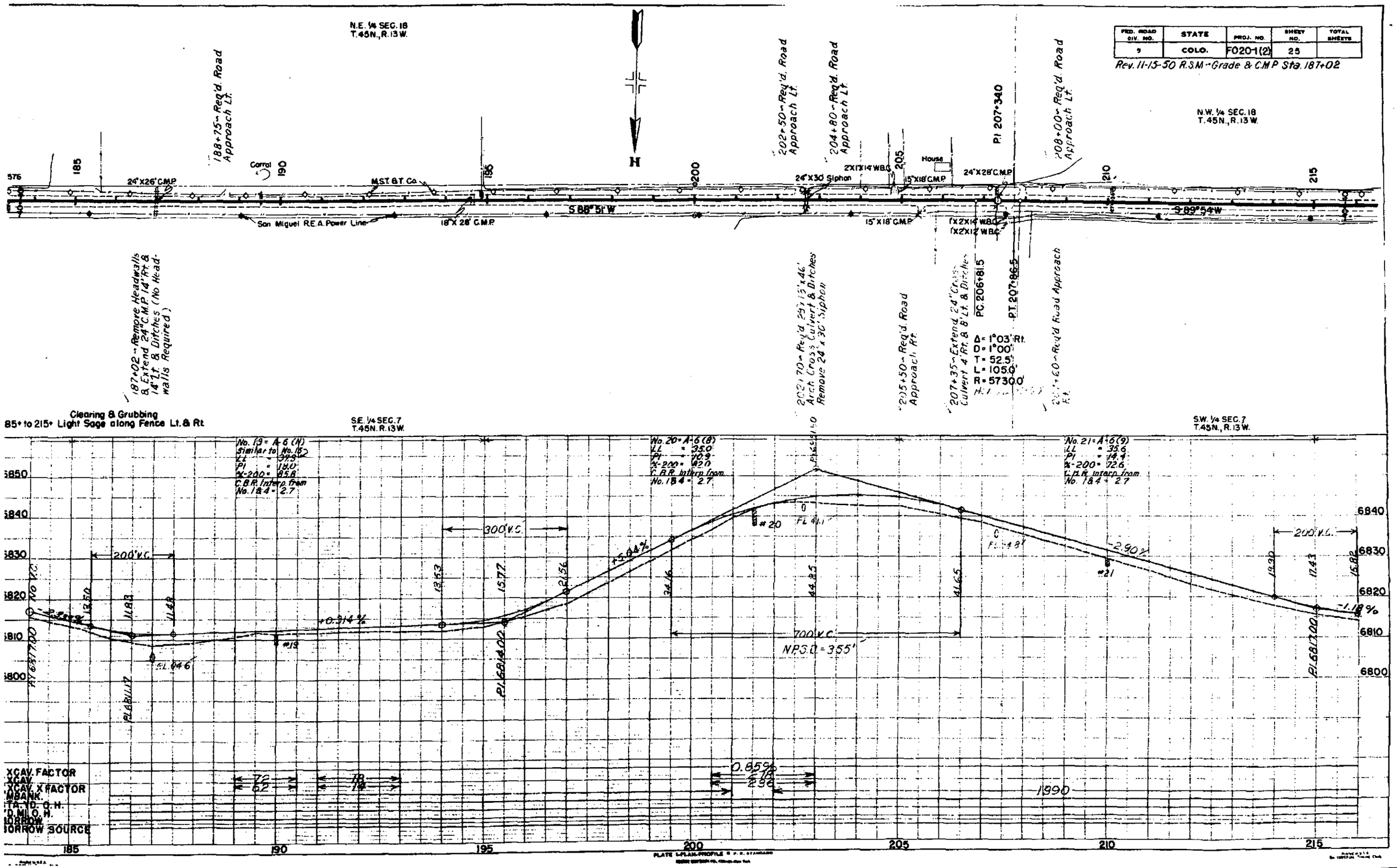
6860 6850 6840 6830 6820 6810 6800

34.59 -0.4% FL. 48.3' FL. 38.8 53.95 52.41 50.17 P.I. 6832.61 P.I. 6840.82 P.I. 6833.47 48.44 16+13.9 Ah. 48.67 40.62 -2.94 1/2% 200' V.C. 100' V.C. 39.05 38.91 38.18 38.46 +0.880% FL. 36.5 9.33.1 FL. 34.7 #17 #17A -0.017% P.I. 6833.30 38.32 37.59 36.86 200' V.C. N.P.S.D. = 365' #18 #18A No V.C. 3.50 2.50 2.33

N.P.S.D. = 465'

EXCAV. FACTOR							
EXCAV.	96 82		280 245	0.35%	30 25	122 104	104 85
EXCAV. X FACTOR							
EMBANK.				6706			
STA. TO O.H.							
TO N. O.H.							
BORROW							
BORROW SOURCE							

PLATE 1-PLAN-PROFILE



FED. ROAD DIV. NO. 9
STATE COLO.
PROJ. NO. F020-1(2)
SHEET NO. 25
TOTAL SHEETS
Rev. 11-15-50 R.S.M.-Grade & C.M.P. Sta. 187+02
N.E. 1/4 SEC. 18 T.45N., R.13W.
N.W. 1/4 SEC. 18 T.45N., R.13W.
188+75 - Req'd. Road Approach Lt.
202+50 - Req'd. Road Approach Lt.
204+80 - Req'd. Road Approach Lt.
208+00 - Req'd. Road Approach Lt.
Corral
M.S.T. & T. Co.
24"X26' C.M.P.
24"X30' Siphon
2X1'X14' W.B.C.
15"X18' C.M.P.
24"X28' C.M.P.
House
P.I. 207+34.0
S 88°51' W
S 89°54' W
San Miguel R.E.A. Power Line
18"X28' C.M.P.
1'X2'X14' W.B.C.
1'X2'X12' W.B.C.
187+02 - Remove Headwalls & Extend 24" C.M.P. 14' Rt. & 14' Lt. & Ditches (No Headwalls Required)
202+70 - Req'd. 29'x15'x46' Arch Cross Culvert & Ditches Remove 24"x30' Siphon
205+50 - Req'd. Road Approach Rt.
207+35 - Extend 24" Cross Culvert 4' Rt. & 8' Lt. & Ditches
P.C. 206+81.5
P.T. 207+86.5
Δ = 1°03' Rt.
D = 1°00'
T = 52.5'
L = 105.0'
R = 5730.0'
Clearing & Grubbing
85+ to 215+ Light Sage along Fence Lt. & Rt.
S.E. 1/4 SEC. 7 T.45N. R.13W.
S.W. 1/4 SEC. 7 T.45N., R.13W.
No. 19 = A-6 (N) Similar to No. 15
LL = 37.9
PI = 18.0
%-200 = 85.8
C.B.R. Interp. from No. 1&4 = 2.7
No. 20 = A-6 (8)
LL = 35.0
PI = 10.9
%-200 = 42.0
C.B.R. Interp. from No. 1&4 = 2.7
No. 21 = A-6 (9)
LL = 35.6
PI = 14.4
%-200 = 72.6
C.B.R. Interp. from No. 1&4 = 2.7
200' V.C.
300' V.C.
700' V.C.
NPSD = 355'
+0.314%
+5.04%
-2.90%
-1.18%
#19
#20
#21
FL 41.1
FL 48
FL 04.6
PI 6817.00
PI 6811.17
PI 6814.00
PI 6817.00
6850
6840
6830
6820
6810
6800
XCAV. FACTOR
XCAV.
XCAV. X FACTOR
MBANK.
TA. YD. O.H.
D. MI. O.H.
BORROW
BORROW SOURCE
0.85%
1990
185
190
195
200
205
210
215
PLATE 1-PLAN-PROFILE

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	26	

Rev 11-15-50 - R.S.M. - Grade

N.W. 1/4 SEC. 18
T. 45 N., R. 13 W.

N.E. 1/4 SEC. 13
T. 45 N., R. 14 W.

215 — 1597 — 18"X28' C.M.P. — 220 — House — 225 — 15"X18' C.M.P. — M.S.T. & T. Co. — 230 — 18"X28' C.M.P. — Guy Pole — 235 — 18"X28' C.M.P. — 240 — 18"X30' Siphon — 245 — 15"X18' C.M.P. — 1619

S 89°54' W — N 88°50' W

San Miguel Power Line (R.E.A.)

r'xr'x18' W.B.C. Under Irrig. Ditch

r'xr'x23' W.B.C. Under Irrig. Ditch

Pl 233+36

233+35 - Req'd. Road Approach Lt.

245+25 - Req'd. 18"x26' Side Drain, Ditches & Road Approach Lt. Remove 1'5"x13' C.M.P. & Headwalls Lt.

224+60 - Req'd. 18"x26' Side Drain Rt. Road Approaches Rt. & Lt.

232+27 - Req'd. 24"x18' C.M.P. under Irrigation Ditch Rt. Remove 1'x1'x14' W.B.C. Rt.

PC 232+72.8

PT 233+99.4

Δ = 1°16' Rt.
D = 1°00'
T = 63.3'
L = 126.6'
R = 5730.0'
Rad. S.D. = 1300'

233+60 - Req'd. 24"x30' Side Drain & Road Approach Rt.

235+44 - Req'd. 24"x24' C.M.P. under Irrigation Ditch Rt. Remove 1'x1'x23' W.F.C. Rt.

Clearing & Grubbing
215+ to 245+ Light Sagebrush along Fence Lt. & Rt.

S.W. 1/4 SEC. 7
T. 45 N., R. 13 W.

S.E. 1/4 SEC. 12
T. 45 N., R. 14 W.

No. 22 - A-6 (9)
Similar to No. 21
C.B.R. Interp. from No. 1 & 4 = 2.7

No. 23 - A-6 (9)
Similar to No. 31
C.B.R. Interp. from No. 1 & 4 = 2.7

No. 24 - A-6 (9)
LL = 33.6
PI = 12.0
%-200 = 73.9
C.B.R. Interp. from No. 1 & 4 = 2.7

No. 24A - A-4 (8)
LL = 33.5
PI = 9.1
%-200 = 73.4
C.B.R. Interp. from No. 40 = 4.5

No. 24B - A-4 (1)
LL = 28.7
PI = N.P.
%-200 = 38.4
C.B.R. Interp. from No. 40 = 4.7

820 / 810 / 800 / 790 — 6820 / 6810 / 6800 / 6790

20' V.C. — 1743 — 1582 — 1930 — -1.12% — #22 — Pl 682+60

-0.80% — 100' V.C. — #23 — Pl 679+00 — W.P.S.D. 900'

200' V.C. — -0.93% — #28 — Pl 679+00

100' V.C. — 200' V.C. — -0.85% — #24 — #24A — #24B — Pl 677+00 — Pl 679+00

+2.17% — 300' V.C. — N.P.S.D. — 5

| | | |

FED. ROAD DIS. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	27	

N.E. ¼ SEC. 13
T.45N., R.14W.

N.W. ¼ SEC. 13
T.45N., R.14W.

Δ 0°12' Lt.
No Curve

House

15"X16' C.M.P.

18"X26' C.M.P.

M.S.T.&T. Co.

18"X32' Siphon

1'X1'X16' W.B.C. Under Irrig. Ditch

15"X26' C.M.P.

N. 88°50" W.

San Miguel R.E.A. Power Line

18"X30' Siphon

Pl. 275+26.9

Clearing & Grubbing
245+ to 275+ Light Sagebrush along Fence Rt & Lt.

S.E. ¼ SEC. 12
T.45N., R.14W.

S.W. ¼ SEC. 12
T.45N., R.14W.

No. 25 - A-6 (9)
LL - 32.4
PI - 14.9
% -200 - 76.5
C.B.R. Interp. from No. 1 & 4 - 2.7

No. 26 - A-6 (9)
Similar to No. 21
LL - 35.6
PI - 14.4
% -200 - 72.6
C.B.R. Interp. from No. 1 & 4 - 2.7

No. 27 - A-6 (9)
Similar to No. 21
LL - 35.6
PI - 14.4
% -200 - 72.6
C.B.R. Interp. from No. 1 & 4 - 2.7

No. 28 - A-6 (9)
LL - 30.8
PI - 12.5
% -200 - 73.0
C.B.R. Interp. from No. 1 & 4 - 2.7

No. 28A - A-6 (9)
LL - 31.0
PI - 12.6
% -200 - 78.8
C.B.R. Interp. from No. 1 & 4 - 2.7

-1.17%

+0.37%

-1.93%

+1.60%

0.85%

200' V.C.

200' V.C.

200' V.C.

200' V.C.

500' V.C.

N.P.S.D. = 0.30'

N.P.S.D. = 3.1%

#25

#26

#27

#28

#28A

Fl. 7932

Fl. 7918

Fl. 7894

PI 6776.24

PI 6776.20

PI 6776.32

| | | |

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	28	

N.W. ¼ SEC. 13
T. 45N., R. 14W.

N.E. ¼ SEC. 14
T. 45N., R. 14W.

Δ 0°12' Lt.
No Curve

27'+25' Rgd. Road Approach Lt.

House

1637

275

280

18"X26' C.M.P.

M.S.T. & T. Co.

N89°02'W

285

N88°54'W

Pl. 284+920

Δ 0°13' Lt.
No Curve

290

N89°07'W

Pl. 292+445

24"X26' C.M.P.

295

15"X26' C.M.P.

2'X2'X17' W.B.C.
15"X24' C.M.P.

300

18"X26' C.M.P.

15"X18' C.M.P.

305

N89°02'W

San Miguel R.E.A. Power Line

Pl. 275+269

Δ 0°08' Rt.
No Curve

Pl. 287+965

Δ 0°05' Rt.
No Curve

Barn

1'X2'X33' Wooden Flume

5'X5'X10' W.B.C.

House

Shed

Farm Road

Shed

House

1½" Water Line

1'X2'X1' Div. Box

Clearing & Grubbing
275+ to 293+ Medium Sagebrush Lt. & Rt. & Scattered Pinons
293+305+ Light Sagebrush along Fence Rt. & Lt.

S.W. ¼ SEC. 12
T. 45N., R. 14W.

SE. ¼ SEC. 11
T. 45N., R. 14W.

No. 29 = Rock

No. 30 = A-6 (9)
Similar to No. 28
C.B.R. Interp. from No. 1 & 4 = 2.7

No. 31 = A-6 (9)
Similar to No. 28
C.B.R. Interp. from No. 1 & 4 = 2.7

6780
6770
6760
6750
6740
6730
6720
6710

#28
#28 A

446' V.C.

500' V.C.
N.F.S.D. = 515'

FL. 6719

N.F.S.

N.F.S.

Pl. 668+20

0.85%

100' V.C.

EXCAV. FACTOR
EXCAV.
EXCAV. X FACTOR
EMBANK.
STA. YD. O.H.
YD. M.O.H.
BORROW
BORROW SOURCE

2765
2351

22

32

39
33
33

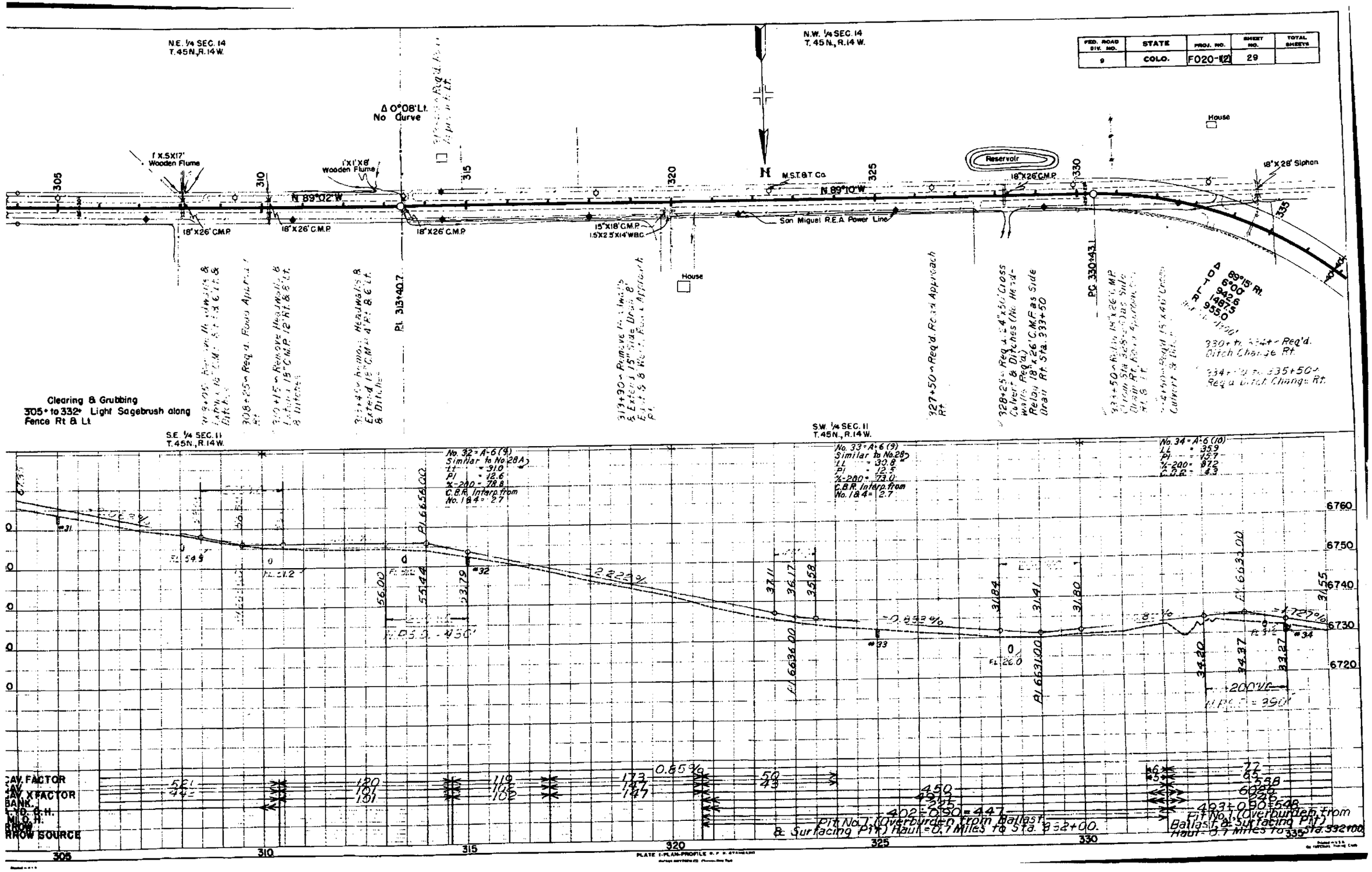
555
693
555-138 = 417

Pit No. 1 (Overburden Trom Balls in Surfacing Pit) Haul-0.7 Miles

555
555

275
280
285
290
295
300
305

PLATE 1-PLAN-PROFILE 8 P H STANDARD



FED. ROAD DIV. NO. 9
STATE COLO.
PROJ. NO. F020-1(2)
SHEET NO. 29
TOTAL SHEETS
N.E. 1/4 SEC. 14 T.45N., R.14W.
N.W. 1/4 SEC. 14 T.45N., R.14W.
Δ 0°08' Lt. No Curve
1'X.5X17' Wooden Flume
1'X1'X8' Wooden Flume
N 89°02' W
N 89°10' W
M.S.T.&T. Co.
Reservoir
18"X26' C.M.P.
18"X28' Siphon
House
San Miguel R.E.A. Power Line
15"X18' C.M.P.
1.5'X2.5'X14' W.B.C.
Pl. 313+40.7
PC 330+43.1
Clearing & Grubbing
305+ to 332+ Light Sagebrush along Fence Rt & Lt
S.E. 1/4 SEC. 11 T.45N., R.14W.
S.W. 1/4 SEC. 11 T.45N., R.14W.
No. 32 = A-6 (9) Similar to No. 28A
No. 33 = A-6 (9) Similar to No. 28
No. 34 = A-6 (10)
Pit No. 1 (Overburden from Ballast & Surfacing Pit) Haul = 0.7 Miles to Sta. 332+00.
CAV. FACTOR
CAV. X FACTOR
BANK.
ROW SOURCE
PLATE 1-PLAN-PROFILE

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	30	

P.I. 339+85.7

N.W. ¼ SEC. 14
T.45N., R.14W.

S.E. ¼ SEC. 10
T.45N., R.14W.

N 0°05' E

N 89°10' W

18"x28' Siphon

Δ 89°15' Rt.
D 6°00
R 955.0
T 940.6
L 1487.5

P.I. 345+30.6

San Miguel R.E.A. Power Line

M.S.T. & T. Co.

18"x26' C.M.P.

1'x1'x14' W.B.C.

15"x18' C.M.P.

House

County Road

U.S.G.S. B.M. 143

1'x1'x16" W.B.C.

18"x26' C.M.P.

1'x1'x13' Wooden Div. Box

18"x26' C.M.P.

Clearing & Grubbing
342+ to 365+ Medium Sagebrush along Fence Rt. & Lt

P.C. 330+43.1

S.W. ¼ SEC. 11
T.45N., R.14W.

No. 35 = A-6 (10)
LL = 34.0
PI = 14.4
% -200 = 80.1
C.B.R. = 2.4

No. 36 = A-6 (10)
Similar to No. 35
C.B.R. = 2.4

No. 37 = A-6 (10)
Similar to No. 35
C.B.R. = 2.4

#34

#35

#36

#37

1.68 %

No V.C.

0.85%

| | | |

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	31	

Rev. 11-15-50 ~ R.S.M. ~ Grade

N.E. 1/4 SEC. 10
T. 45N., R. 14W.

S.E. 1/4 SEC. 3
T. 45N., R. 14W.

N.W. 1/4 SEC. 11
T. 45N., R. 14W.

PT 394+60.8

PI 389+15.8

90° 18' Lt.
6°00
9600
15550
9550

24'X26' C.M.P.

15'X18' C.M.P.

House

M.S.T. & T. Co.

San Miguel R.E.A. Line

Similar Ditches

S 89°47'W

N 0°05'E

#373+45 ~ Reqd. 36"x58' Cross Culvert & Ditches (W.S.) Remove 24'x26' C.M.P. with 2 Headwalls (No Headwalls Req'd.)

#381+50 ~ Reqd. Road Approach Lt.

#382+50 ~ Reqd. Road Approach Rt.

#388+50 ~ Reqd. 24"x56' Cross Culvert (No Head Walls Req'd.)

#391+15 ~ Reqd. 24"x50' Cross Culvert & Ditches (No Headwalls Req'd.)

#394+10 ~ Reqd. 18"x30' Side Drain & F.H. Approach Rt. (Plug Approach Side Drain.)

Clearing & Grubbing

365+ to 381+ Medium Sagebrush along Fence Rt. & Lt.

381+ to 391+ 4 Pinon Trees

391+ to 395+ Medium Sagebrush along Fence Rt. & Lt.

No. 38 ~ A-6 (11) Similar to No. 35 C.B.R. ~ 2.4

No. 39 ~ A-6 (10) Similar to No. 35 C.B.R. ~ 2.4

No. 39A ~ A-7-5 (9) LL ~ 44.5 PI ~ 14.5 %-200 ~ 69.0 C.B.R. ~ 12.1

No. 40 ~ A-4 (5) LL ~ 33.0 PI ~ 9.3 %-200 ~ 59.3 C.B.R. ~ 4.6

No. 40B ~ A-1-a (0) LL ~ 45.7 PI ~ N.P. %-200 ~ 10.6 C.B.R. ~ 19.+

No. 40A ~ A-2-7 (0) LL ~ 55.5 PI ~ 12.6 %-200 ~ 24.2 C.B.R. ~ 19.+

4 Col. V.C.

-2.00%

+1.20%

-3.0%

-1.80%

No V.C.

400' V.C.
N.P.S.D. ~ 370'

100' V.C.
N.P.S.D. ~ 960'

Fl. 553.7

Fl. 542.5

| | | |

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	32	

Rev 11-15-50 RSM - Grade

N.E. 1/4 SEC. 10 T. 45N., R. 14W.

N.W. 1/4 SEC. 10 T. 45N., R. 14W.

401+00 - Req'd. Road Approach Lt.

P.I. 411+73.9

1724

395

400

405

410

415

420

425

4'x2'x 31.5 C.B.C.

M.S.T. & T. Co.

4'x2'x 31.5 C.B.C.

4'x2'x 35.5 C.B.C.

Guy Pole

S 89° 47' W

N 89° 59' W

Fruit Trees

House

16'x26' C.M.P.

15'X18' C.M.P.

15'X18' C.M.P.

San Miguel R.E.A. Power Line

15'X18' C.M.P.

2'X10' Foot Bridge

18'x30' C.M.P.

15'X18' C.M.P.

Farm Road

House

P.I. 394+60.8

Δ 0°14' Rt.
No Curve

538+10 - Req'd Road Approach Rt.

400+65 - Req'd. 36'x22'x56' Arch Cross Culvert (Through Present C.B.C.) & Ditches W.S. (No Headwall Req'd.)

400+60 - Req'd. 36'x22'x56' Arch Cross Culvert (Through Present C.B.C.) & Ditches W.S. (No Headwall Req'd.)

400+90 - Req'd. 36'x22'x56' Arch Cross Culvert (Through Present (C.B.C.) & Ditches W.S. (No Headwall Req'd.)

411+85 - Req'd Road Approach Rt.

Req'd Road Approach Rt.

42+45 - Remove Existing Wells & Abandon Pipe Line

Clearing & Grubbing
395+ to 425+ Medium Sagebrush along Fence Lt. & Rt.

S.E. 1/4 SEC. 3 T. 45N., R. 14W.

S.W. 1/4 SEC. 3 T. 45N., R. 14W.

No. 41 = A-6 (11)
LL - 66.1
PI - 18.5
% - 200 - 79.7
C.B.R. Interp. from No. 184 = 2.7

No. 42 = A-6 (11)
Similar to No. 41
C.B.R. Interp. from No. 184 = 2.7

No. 43 = A-6 (11)
Similar to No. 41
C.B.R. Interp. from No. 184 = 2.7

6530
6520
6510
6500
6490

No V.C.

200' V.C.

200' V.C.
N.P.S.D. = 590

200' V.C.

100' V.C.

P.I. 65+32.00

P.I. 65+15.00

P.I. 65+12.00

P.I. 64+59.00

P.I. 65+03.00

P.I. 65+26.20

P.I. 65+28.00

+1.27

-1.667

0.85%

0.03%

FL. 99.7

FL. 90.2

FL. 89.0

FL. 91.5

FL. 91.5

1145

780'

EXCAV. FACTOR							
EXCAV.							
EXCAV. X FACTOR							
EMBANK.	104						
STA. YD. O. H.	88						
YD. MI. O. H.							
BORROW							
BORROW SOURCE							

4065
5422
7516

7603 ÷ 0.90 = 5114

Pit No. 1 (Overburden from Ballast & Surfacing Pit.) Haul = 0.1 Miles to Sta. 343+00.

395 400 405 410 415 420 425

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	33	

N.W. ¼ SEC. 10 T.45N., R.14W.

N.E. ¼ SEC. 9 T.45N., R.14W.

S.W. ¼ SEC. 3 T.45N., R.14W.

S.E. ¼ SEC. 4 T.45N., R.14W.

Pl. 428+66.8

18"X26' C.M.P.

18"X26' Siphon

M.S.T.&T. Co.

Fruit Trees

Reservoir

15"X18' C.M.P.

24"X28' C.M.P.

15"X18' C.M.P.

15"X26' C.M.P.

15"X18' C.M.P.

House

3'X6'X 25.5' C.B.C. House

2'X12' Sidewalk

1'X2'X 20' W.B.C.

County Road Remove 14.5' x 20' W.B.C. Lt.

Fruit Trees

Sidewalk

House

1'X1'X22' W.B.C.

House

15"X18' C.M.P.

1'X2'X 16' W.B.C.

1'X1'X4' Div. Box

San Miguel R.E.A. Power Line

15"X12' C.M.P.

15"X28' Siphon

Sign

15"X28' Siphon

House

1'X1'X12' W.B.C.

1'X1'X28' Wooden Flume

Guy Pole

2'X12' Steel Pipe

12"X12' C.M.P.

House

House

425 430 435 440 445 450 455

3 4

Δ 0°14' Rt. No Curve

Δ 0°05' Rt. No Curve

438+70'± Req'd. Road Approach Rt.

442+37 to 445+21'± Fill & Adjust Borrow Ditch on Lt. for Drainage

445+00'± Req'd. Road Approach Rt.

448+30'± Req'd. Road Approach Lt.

454+80'± Req'd. Road Approach Lt.

Clearing & Grubbing
425+ to 451+ Medium Sagebrush along Fence Rt. & Lt.

Clearing & Grubbing
451+ to 455+ Light Sagebrush along Fence Rt. & Lt.

No. 44 = A-6(11) Similar to No. 41 C.B.R. Interp. from No. 1 & 4 = 2.7

No. 45 = A-6(11) Similar to No. 41 C.B.R. Interp. from No. 1 & 4 = 2.7

No. 46 = A-1-a(0) LL = 25.8 PI = N.P. % -200- = 14.1 C.B.R. = 19+

No. 46A = A-6(11) LL = 36.2 PI = 18.0 % -200- = 81.7 C.B.R. Interp. from No. 1 & 4 = 2.7

510 500 490

6510 6500 6490 6480

+1.66% -1.42% -0.97% -1.90% -2.33%

PI 651.22 PI 650.80 PI 651.80 PI 650.80 PI 649.22

400' V.C. N.P.S.D. = 510'

400' V.C. N.P.S.D. = 850'

No V.C. N.A.S.D. > 1300'

XCAV. FACTOR
XCAV.
XCAV. X FACTOR
EMBANK.
TA. NO. S.H.
D.M.L.O.H.
BORROW
BORROW SOURCE

PLATE 1-PLAN-PROFILE U. S. STANDARD

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	34	

Rev 11-15-50 R.S.M.-Grade & C.M.P Sta 478+03

N.E. ¼ SEC. 9 T.45N., R.14W.

N.W. ¼ SEC. 9 T.45N., R.14W.

S.E. ¼ SEC. 4 T.45N., R.14W.

S.E. ¼ SEC. 4 T.45N., R.14W.

456+50± Reqd. 15" ± C.M. Side Drain & Road Approach Rt.

46.5+00± Reqd. 15"x30' Side Drain Lt., Road Approaches Rt. & Lt. Remove 1x1x30' W.B.C. Lt.

Sign 470

Pl 471+26.3

15"X26' C.M.P.

County Road

15"X28' Siphon

2'X1'X16' W.B.C.

House

1'X1'X30' W.B.C.

USGS B.M.

(10'X10' Flume

15"X26' C.M.P.

Store

1'X1'X8' Drv Box

466+75 to 473+50 ± Reqd. Ditch Change Rt.

Δ 53°28' Rt.
D 6°00
T 481.0
L 891.1
R 955.0
Hor. S.E. = 730'
(Store)

Sidewalk

Road

Post Office

House

456+50± Reqd. Road Approach Rt.

MST. & T. Co.

15"X26' C.M.P.

S 89° 40' W

460

455

House

1'X1'X2' W.B.C.

House

Sidewalk

Church

1'X1'X2' W.B.C.

15"X26' C.M.P. San Miguel R.E.A. Line

Clearing & Grubbing
455+ to 466+ Light Sagebrush along Fence Rt. & Lt.

461+70 ± Remove Headwall & 15"C.M.P. 12'-5" Lt. & Ditches. Remove 1'x1'x10' Wood Flume Lt.

463+00± Reqd. Road Approach Rt.

471+75± Reqd. 9'x5'-3" Culvert & Ditches. Remove 15"x28' Siphon

474+00± Reqd. Road Approach Lt.

477+00± Reqd. 18"x44' Cross Culvert & Ditches

484+00± Reqd. 24"x54' Cross Culvert & Ditches (No Headwalls Reqd.)

477+50± Reqd. Road Approaches Rt. & Lt.

County Road

Pt. 475+36.8

Farm Road 475

475+00± Remove Headwall & 15"C.M.P. Extend 15"C.M.P. & Ditches. (No Headwalls Reqd.)

475+50± Reqd. Road Approach Lt.

1'X2'X28' W.B.C.

15"X26' C.M.P.

480

15"X28' Siphon

N 36° 12' W

485

15"X26' C.M.P.

Clearing & Grubbing
466+ to 473+ Medium Sagebrush
473+ to 485+ Light Sagebrush
along Fence Line Rt. & Lt.

No. 47 = A-1-a(0) Similar to No. 46 C.B.R. = 19.+

No. 47A = A-6 (11) Similar to No. 46A C.B.R. Interp. from No. 1&4 = 2.7

No. 48 = A-1-a (0) Similar to No. 46 C.B.R. = 19.+

No. 48A = A-6 (11) Similar to No. 46A C.B.R. Interp. from No. 1&4 = 2.7

No. 49 = A-1-a (0) Similar to No. 46 C.B.R. = 19.+

No. 49A = A-6 (11) Similar to No. 46A C.B.R. Interp. from No. 1&4 = 2.7

2.333%

-0.333%

0.35%

-1300'

340

179

6490
6480
6470
6460
6450
6440

190
180
170
160
150
140

455
460
465
470
475
480
485

CAV. FACTOR																							
CAV.																							
CAV. X FACTOR																							
BANK																							
FA-YD. G.H.																							
M.I. G.H.																							
ARROW																							
ORROW SOURCE																							

30 / 26

14 / 12

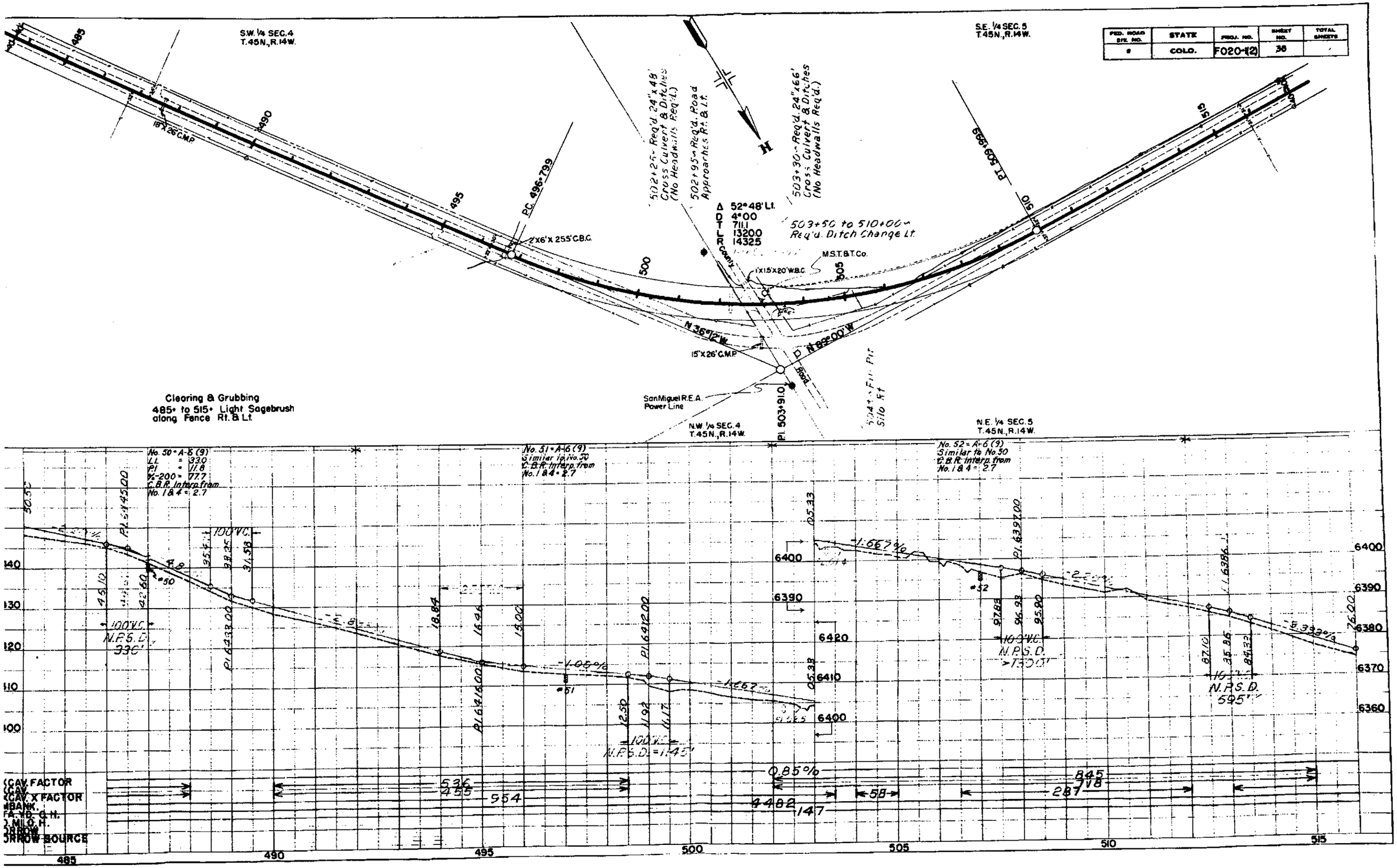
125 / 122

2555 1543 7945

2589 - 090 = 2877

Pit No. 1 (Overhaul) from Ballast & Surfacing Pit) Haul = 0.7 Miles to Sta. 343+00.

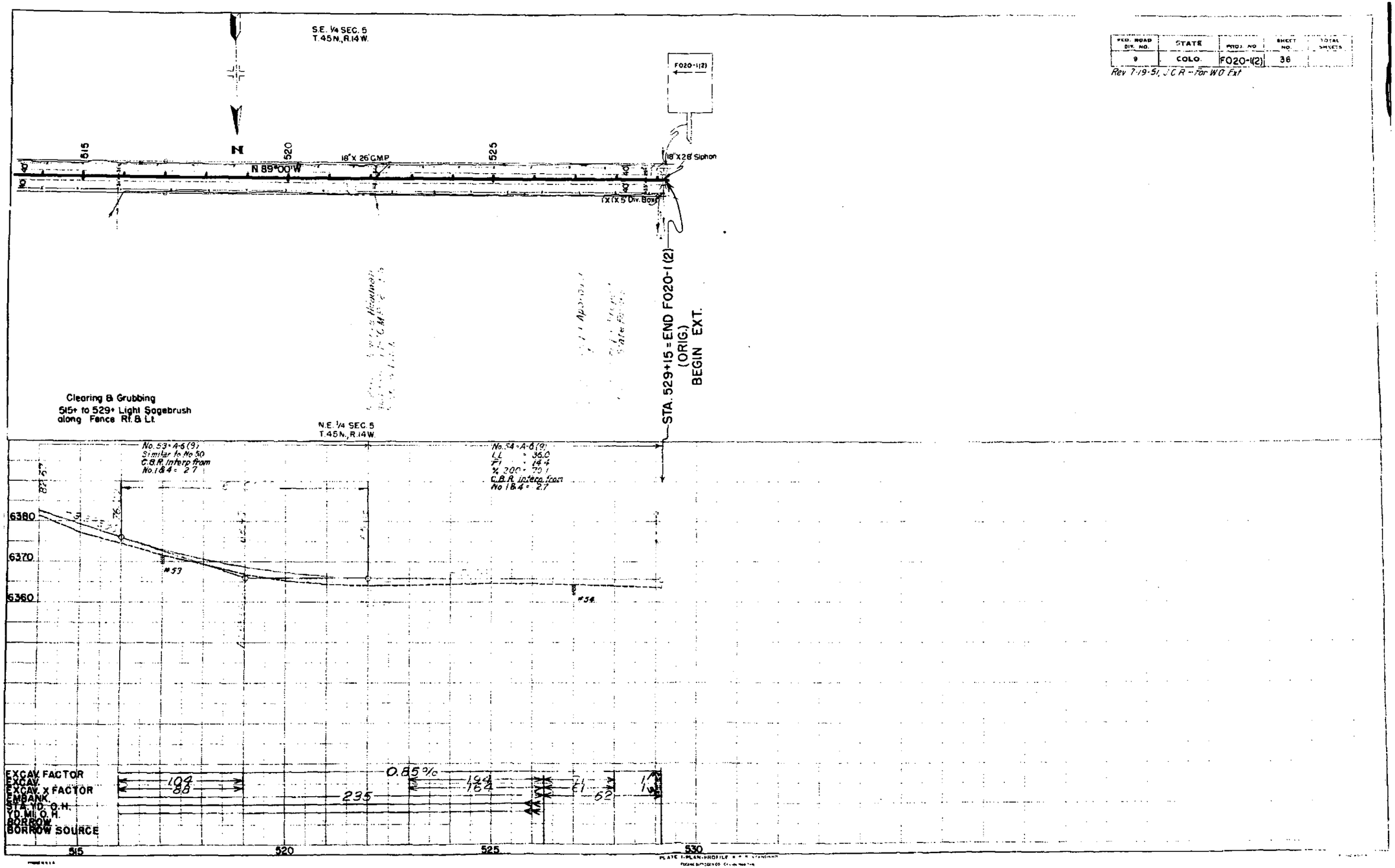
PLATE 1-PLAN-PROFILE U. S. P. R. STANDARD

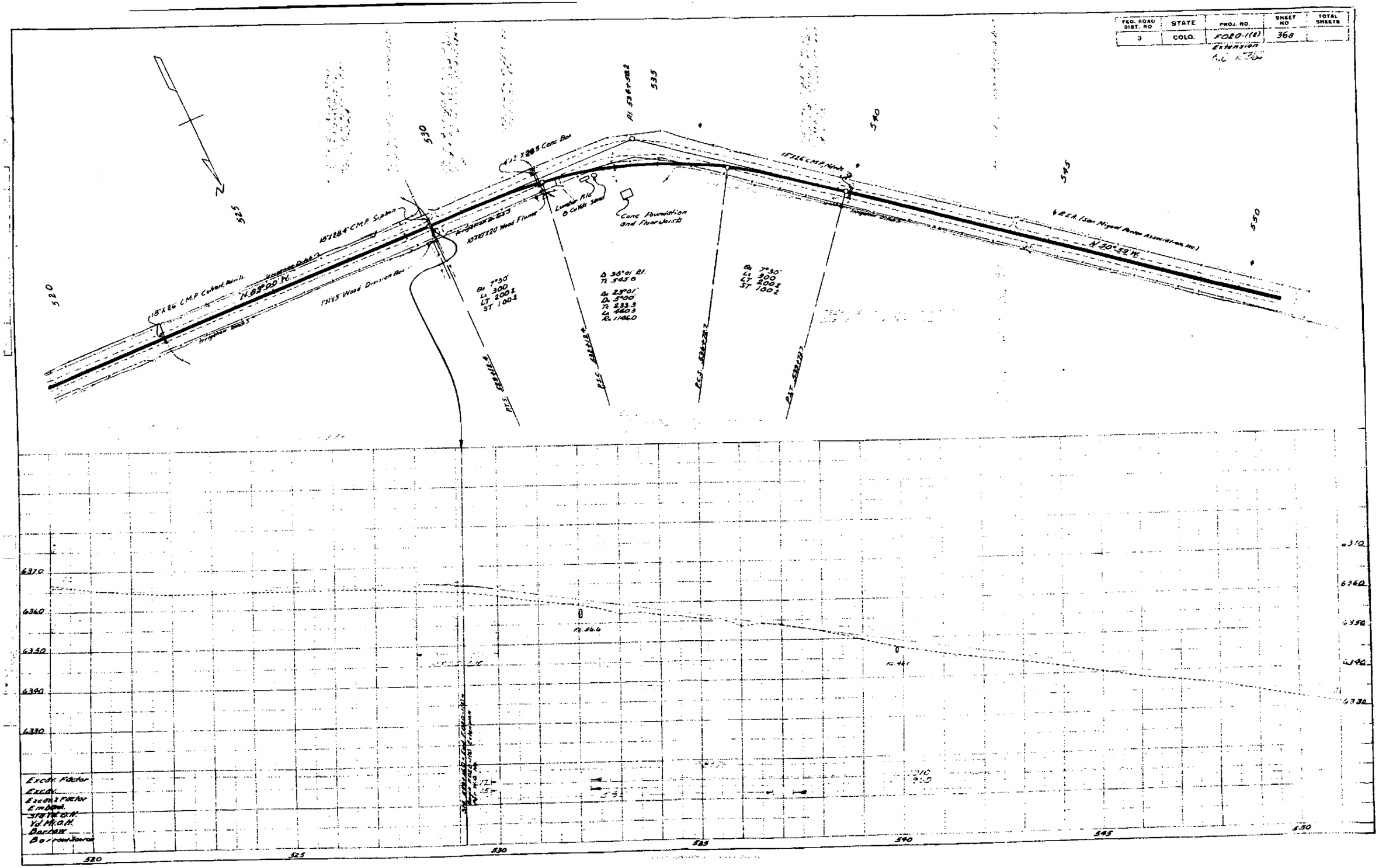


FED. ROAD DIV. NO. 8
STATE COLO.
PROJ. NO. F020-1(2)
SHEET NO. 38
TOTAL SHEETS
S.W. 1/4 SEC. 4 T.45N., R.14W.
S.E. 1/4 SEC. 5 T.45N., R.14W.
N.W. 1/4 SEC. 4 T.45N., R.14W.
N.E. 1/4 SEC. 5 T.45N., R.14W.
18"X26' C.M.P.
P.C. 496+79.9
2'X6'X 25.5' C.B.C.
502+25 - Req'd. 24"x48' Cross Culvert & Ditches (No Headwalls Req'd.)
502+95 - Req'd. Road Approaches Rt. & Lt.
503+30 - Req'd. 24"x66' Cross Culvert & Ditches (No Headwalls Req'd.)
Δ 52°48' Lt.
D 4°00
T 711.1
L 1320.0
R 1432.5
503+50 to 510+00 - Req'd. Ditch Change Lt.
M.S.T.&T.Co.
1'X15'X20' W.B.C.
N 36°12' W
N 89°00' W
15"X26' C.M.P.
San Miguel R.E.A. Power Line
P.I. 503+91.0
Silo Rt.
Clearing & Grubbing
485+ to 515+ Light Sagebrush along Fence Rt. & Lt.
No. 50 = A-6 (9)
LL = 33.0
PI = 11.8
%-200 = 77.7
C.B.R. Interp. from No. 1 & 4 = 2.7
No. 51 = A-6 (9)
Similar to No. 50
C.B.R. Interp. from No. 1 & 4 = 2.7
No. 52 = A-6 (9)
Similar to No. 50
C.B.R. Interp. from No. 1 & 4 = 2.7
100' V.C.
N.P.S.D. 330'
N.P.S.D. 595'
N.P.S.D. = 1145'
-1.05%
-1.667%
-5.333%
0.85%
CAV. FACTOR
CAV. X FACTOR
BANK
FA. YD. O.H.
MILO. H.
ORROW
ORROW SOURCE
485
490
495
500
505
510
515
6400
6390
6380
6370
6360

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F020-1(2)	36	

Rev 7-19-51, J.C.R. - For W.O. Ext




FED. ROAD DIST. NO
3
STATE
COLO.
PROJ. NO.
FO20-1(2)
Extension
SHEET NO
368
TOTAL SHEETS
520
525
530
535
540
545
550
18"X26' C.M.P. Culvert, Nails
N 83°00' W.
18"X28.4' C.M.P. Siphon
10"X12"X20' Wood Flume
Lumber Pile 8 Cu Yds Sand
Conc Foundation and Floor Joists
15"X26' C.M.P. Nails
N 50°59' W.
Δ 38°01' Rt.
Tc 545.8
Δc 23°01'
Dc 5°00'
Tc 233.3
Lc 460.3
Rc 1146.0
Bs 7°30'
Ls 300
LT 200.2
ST 100.2
6370
6360
6350
6340
6330
Excav. Factor
Excav.
Excav. Factor
Embank.
Sta. Yd. O.H.
Yd. Mi. O.H.
Borrow
Borrow Source

FED ROAD DIST. NO.	STATE	PROJ NO	SHEET NO	TOTAL SHEETS
3	COLO.	F020-1(12)	36b	

N

550

555

560

565

570

575

580

PI 561+02.8

18°32' CMP Hwds

24"x26 CMP Hwds

15"x26 CMP Hwds

18"x29 CMP Hwds

N 20°32' W

Δ 50°56' Rt
T: 833.3
L: 1623.3
D: 4°00'
T: 306.4
L: 972.3
R: 1432.3

@ 6°00
L: 300
LT 200.1
ST 100.1

@ 6°00
L: 300
LT 200.1
ST 100.1

Riprap Slope Protection

Tel Cable

Tel Cable

Tel Cable

Ditch Flow

Ditch Flow

Ditch Flow