COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500000941

Description:
ROW Plans 24X36

Route # and Mile Points:
US 84

Originating Office:

ROW/Survey

File Name:
F 24-1(1)_ROW(.PDF)

Box Location:

19 (TUBE-16)of 38

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

MOUNTAIN STATES
IMAGING

F 24-10

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	~~F.A.P.196-C(1)~~	2	6

F. 196-(5)
~~F.A.P. 196-C(1)~~ ARCHULETA COUNTY
F24-1(1)

NO.	OWNER	LOCATION	AREA IN ACRES TOTAL ACRES IRRIG.	AREA IN ACRES TOTAL ACRES NON-IRR.	AREA IN ACRES REQ'D. ACRES IRRIG.	AREA IN ACRES REQ'D. ACRES NON-IRR.	ASSESSED VALUATION IRRIG.	ASSESSED VALUATION NON-IRR.	ASSESSED VALUATION IMP'S.	ASSESSED VALUATION TOTAL	CONSTR. IMPR. REMOVE	CONSTR. IMPR. REHABIL.	OWNER'S DESIRE	ESTIMATED DAMAGE	COURT DEPOSIT REQ'D	REMARKS
1A▲	~~W.B.&GLADYS McPHERSON, DURANGO, COLO.~~ RC Corrico	SW¼NW¼ & NW¼SW¼ SEC. 27, T34N, R1W	35	ϕ 10 ⊖155	2.06	⊖1.15	$1050	ϕ $80 ⊖$390	$500	$2020						Acquired.
1B	W.B. McPHERSON, DURANGO, COLORADO RC Corrico	NW¼SE¼ " " "		⊖272		⊖0.25		⊖$680	$100	$780						
2A	~~E.T.HAZELWOOD~~, PAGOSA SPRINGS, COLORADO Woodrow Dunlap	E½SW¼ & SW¼SE¼ " " "			8.87	ϕ 4.10 ⊖ 4.85										
2B	" " " "	N½NE¼ SEC. 34, " "		ϕ 50 ⊖258		⊖5.68		ϕ $400 ⊖$645	$300	$1345						
2C	" " " "	S½NW¼ SEC. 35, " "				⊖4.73										
*	SAN JUAN NATIONAL FOREST	SE¼SE¼ SEC. 27, " "														
*	" " " "	NW¼NW¼ SEC. 35, " "														
*	" " " "	S½ " " "														
*	" " " "	ALL SEC. 2, T33N, R1W														
*	" " " "	ALL SEC. 11, " "														
*	" " " "	N½ SEC. 14, " "														
*	" " " "	ALL SEC. 13, " "														
*	" " " "	NE¼NW¼ & NW¼NE¼ SEC. 24, " "														
3A	W.L. KARR, PAGOSA SPRINGS, COLORADO	SE¼ SEC. 14, " "				⊖ 0.49										Recorded Book # 78- Page 458 Oct. 28, 1941
3B	" " " "	NW¼NW¼ SEC. 24, " "	130	ϕ 78 ⊖2940		⊖ 0.03	$3900	ϕ $625 ⊖$7350	$2160	$14035						ditto
3C	" " " "	SE¼NW¼ & SW¼NE¼ " " "				⊖4.58										ditto

ϕ Dry Farm Land
⊖ Pasture Land

* U.S. National Forest Lands. No Map or Descriptions Necessary

Note: Tracts and Descriptions are Numbered from North to South

▲ This Right of Way was Acquired and Fenced as Part of Forestry Service Proj. 4-C, and is Included here as a Matter of Record Only.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	~~F.A.P. 196-C(1)~~ F-196(5) F24-1(1)	3	6

Note: Right of Way maps and descriptions are numbered from North to South

Points of beginning of tract descriptions, thus: (2B)

Bearings and distances, thus: 14

S.W.¼ N.W.¼ Sec. 27
T34N, R1W, N.M.P.M.

P.O.T. 573+00
END OF F.A.P. 196-C(1)

W.B. & Gladys Mc Pherson

(1A) & (2A)

N

606+37

N.W.¼ S.E.¼ Sec. 27

W.B. Mc Pherson

P.T. 601+43

58.0 58.5 59.0 59.5 60.0 60.5

S 50°46'E

Rio Blanco

P.C. 602+90

Δ 12°24' Rt.
D 4°00'
T 155
L 310
R 1432

P.T. 606+00

(1B)

S 0°19'19" W 1348 To S¼ Cor.

586+96.7

S 89°49'52" W
N 87°25'37" W 1322.8' to W¼ Cor.

N.W.¼ S.W.¼ Sec. 27

W.B. & Gladys Mc Pherson

588+97.8

N 0°22'24" E

E½ S.W.¼ Sec. 27

Woodrow Dunlap
~~C.F. Hazelwood~~

Note: All Right of Way not otherwise specifically noted lies in the San Juan National Forest

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, ALIGNMENT CHECKED, BY, DATE, NO., STRUCTURE NOTES AS OF NO.

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, ALIGNMENT CHECKED, BY, DATE, NO., STRUCTURE NOTES AS OF NO.

7060 7050 7040 7030 7020 7010 7000 6990 6980 6970

575 580 585 590 595 600 605

P.I. 78+42 — 80.67 — 88.42 — 400' V.C. — +5.00%

P.I. 24.20 — 19.20 — 23.62 — 26.90 — 200' V.C. — +2.70%

48.50 — 50.90 — 52.70 — 200' V.C. — P.I. 51.20 — +1.5%

63.20 — P.I. 64.70 — 65.33 — 200' V.C. — 68.70

PLATE 1—PLAN-PROFILE — K. P. R. R. R. E. STANDARD
KOPPEL & KISSAM CO. NEW YORK

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	~~F.A.P.196-C(1)~~ F-196(5) F24-1(1)	4	6

N.W.¼ S.E.¼ Sec. 27

W. B. Mc Pherson

N 89°45'16" E 607.38'

P.I. 604+45.6

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

P.T. 606+00.2

1B

S 0°19'19" W 1334.6' to S¼ Cor.

E.½ S.W.¼ Sec. 27

Woodrow Dunlap

~~C. T. Hazelwood~~

S 38°22'E 615

P.C. 619+75.2

Δ 20°36' Lt.
D 4°00'
T 260.3
L 515.2
R 1432.5

S.W.¼ S.E.¼ Sec. 27
T 34 N, R 1 W, N.M.P.M.

Woodrow Dunlap

~~C. T. Hazelwood~~

P.T. 622+35.4

625+47.6

S.E.¼ S.E.¼ Sec. 27

U.S. Nat'l. Forest

P.T. 624+90.2

2B

N 89°44'E 1323.6' to N.E. Cor. Sec. 34

S 58°58'E 630

P.I. 631+21.4

P.C. 630+29.8

Δ 5°40' Rt
D 3°00
T 94.3
L 188.9
R 1910.0

N½ N.E.¼ Sec. 34

Woodrow Dunlap

~~C. T. Hazelwood~~

Rio Blanco

Channel Change

PROFILE

SURVEYED
PLOTTED
DRAWN BY C. M. S. JONES
STRUCTURE NO. FOR STR. NOS. SEE PLAN

PLAN

DRAWN
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
BY C. M. S. JONES
NO. FOR STR. NOS. SEE PLAN

7140
7130
7120
7110
7100
7090
7080
7070
7060
7050

+4.00%

84.70

88.32

31.20

200' V.C.

P.I. 88.70

+2.50%

12.45

1607

600' V.C.

11.93

P.I. 1995

-2.673%

03.91

01.95

04.10

300' V.C.

+2.80%

12.50

15.12

17.40

200' V.C.

P.I. 1990

P.I. 1530

605 610 615 620 625 630 635

PLATE 1 — PLAN-PROFILE U. S. P. R. & S. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	~~F.A.P. 196-C(1)~~ F-196(5)	5	6

F24-1(1)

N.W.¼ N.W.¼ Sec. 35
T. 34 N., R. 1 W., N.M.P.M.

U.S. Nat'l. Forest

N 25°26'20" W 1432.2 to NW. Cor. Sec. 35

641+75.7

20

648+54.2

P.I. 637+24.4

P.T. 638+18.2

Δ 5°40' Rt.
D 3°00'
T 94.4
L 188.9
R 1910.0

N 0°02'50" E

N 89°40'46" E

N. ½ N.E. ¼ Sec. 34

Woodrow Dunlap
~~C.T. Hazelwood~~

N

P.I. 661+30.9

Intercepting Channel

Rio Blanco

S 53°18' E

S 47°34' E

P.C. 660+07.4

Δ 5°44' Rt.
D 2°00'
T 143.6
L 286.7
R 2865.0

P.T. 662+94.1 Bk.
= 662+93.3 Ah.

S. ½ N.W. ¼ Sec. 35

Woodrow Dunlap
~~C.T. Hazelwood~~

EQUATION

669+13.4

N 89°53'32" E

N.E. ¼ S.W. ¼ Sec. 35

U.S. Nat'l. Forest.

7150
7140
7130
7120
7110
7100
7090

+2.10%
−2.00%
+2.50%
−4.194%

P.I. 35.25
P.I. 16.25
P.I. 35.00
P.I. 14.00

31.05
33.20
31.25
400' V.C.

20.25
18.50
21.25
400' V.C.

27.50
29.98
22.39
600' V.C.

15.20
12.50
300' V.C.

640
645
650
655
660
665

PLATE I — PLAN-PROFILE C. P. R. & R. T. STANDARD
MEINELL & BEIER CO., NEW YORK.

COLORADO
Department of Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500000950

Description:
ROW Plans 24X36

Route # and Mile Points:
US 84

Originating Office:

ROW/Survey

File Name:
F 24-1(1)_ROW(.PDF)

Box Location:

19 (TUBE-19)of 38

For assistance, or to request changes to this form,
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MOUNTAIN STATES IMAGING

E24-10

FED. ROAD DIST. NO.	STATE	F.A.P. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	1	6

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F 24-1 (1)
STATE HIGHWAY NO. 17

ARCHULETA COUNTY

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 GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT } 10,000.8 LIN. FT. = 1.894 MILES
NET LENGTH OF PROJECT }

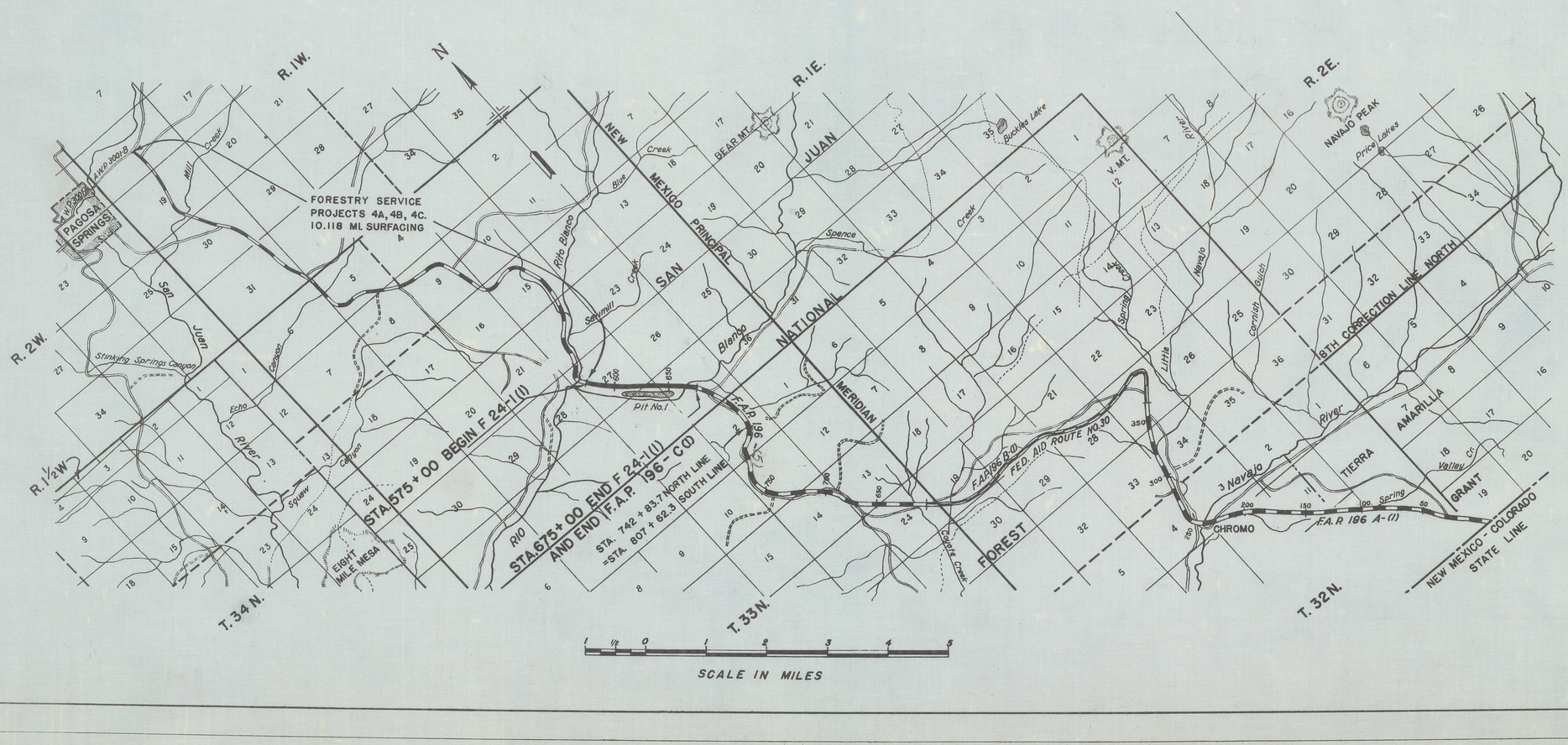
RIGHT OF WAY

INDEX OF SHEETS

1 TITLE SHEET
2 TABULATION OF PROPERTIES
3–6 PLAN AND PROFILE SHEETS SHOWING RIGHT OF WAY REQUIRED.

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY 610
RIGHT OF WAY LINES
SECONDARY ROADS
TOWNSHIP AND RANGE LINES
SECTION LINES
QUARTER SECTION LINES
BARBED WIRE FENCE
COMBINATION WIRE FENCE
TELEPH. & TELEG. LINE



RECOMMENDED FOR APPROVAL

ASSISTANT ENGINEER DATE

APPROVED

STATE HIGHWAY ENGINEER DATE

RECOMMENDED FOR APPROVAL-DATE

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

R.O.W. TABULATION OF PROPERTIES IN ARCHULETA COUNTY S.H. No. 17 PROJ. F 24-1(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1 (1)	2	6

NO.	OWNER	ADDRESS	LOCATION	AREA IN ACRES			ASSESSED VALUATIONS				REMARKS	NO.
				TOTAL LAND	PARCEL	TO BE ACQUIRED	TOTAL LAND	PER ACRE	PARCEL	IMP'S.		
			T.34 N., R.1W.									
1	R.C. & EFFIE A. CARRICO	PAGOSA SPRINGS, COL.O.	SW1/4 NW1/4; SEC.27	631.83	8.17						Acquired-Book No. 71 Page No. 74	1
2	WOODROW & VIRGINIA NAY DUNLAP	P.O. BOX 36, PAGOSA SPRINGS, COLO.	NE1/4 SW1/4; SEC. 27	308.00 258. Grazing 50. Dry farm	4.943	4.943 Grazing land	$1045. $ 645. Grazing 400. Dry farm	$ 2.50 Grazing land	$ 12.36	$ 300.	Assessed valuation grazing land $ 645., dry farming $ 400. Right of way to be acquired all grazing land.. Acquired- Book No. 83 Page No. 319	2
3	R.C. & EFFIE A. CARRICO	PAGOSA SPRINGS, COLO.	NW1/4 SE1/4; SEC. 27	631.83 550.83 Grazing 65. Irrigated 16. Dry farm	1.024	1.024 Grazing land	3450. $1370. Grazing 1950. Irrigated 130. Dry farm	2.50 Grazing land	2.56	1000.	Assessed valuation grazing land $ 1370., dry farming $ 130., irr. land $ 1950. Right of way to be acquired all grazing land. Acquired- Book No. 83 Page No. 296	3
4	WOODROW & VIRGINIA NAY DUNLAP	P.O. BOX 36, PAGOSA SPRINGS, COLO.	SW1/4 SE1/4; SEC.27, NW1/4 NE1/4 & NE1/4 NE1/4, SEC. 34	308.00 258. Grazing 50. Dry farm	11.501	11.501 Grazing land	1045. $645. Grazing 400. Dry farm	2.50 Grazing land	28.75	300.	Assessed valuation grazing land $ 645., dry farming $ 400. Right of way to be acquired all grazing land. Acquired-Book No. 83 Page No. 319	4
5	UNITED STATES GOVERNMENT	SAN JUAN NATIONAL FOREST POST OFFICE BUILDING DURANGO, COLO.	SE1/4 SE1/4; SEC.27								Use permit U.S. FOREST SERVICE	5
6	UNITED STATES GOVERNMENT	SAN JUAN NATIONAL FOREST POST OFFICE BUILDING DURANGO, COLO.	NW1/4 NW1/4; SEC. 35								Use permit U.S. FOREST SERVICE	6
7	WOODROW & VIRGINIA NAY DUNLAP	P.O. BOX 36, PAGOSA SPRINGS, COLO.	SW1/4 NW1/4; & SE1/4 NW1/4; SEC. 35	308.00 258. Grazing 50. Dry farm	6.445	6.445 Grazing land	1045. $ 645. Grazing 400. Dry farm	2.50 Grazing land	16.11	300.	Assessed valuation grazing land $ 645., dry farming $ 400. Right of way to be acquired all grazing land. Acquired-Book No. 83 Page No. 319	7
8	UNITED STATES GOVERNMENT	SAN JUAN NATIONAL FOREST POST OFFICE BUILDING DURANGO, COLO.	NE1/4 SW1/4; SEC. 35								Use permit U.S. FOREST SERVICE	8

MICROFILMED

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	3	6

NW¼ NW¼ SEC. 27
T 34 N, R I W.

SW¼ NW¼ SEC. 27

SE¼ NW¼ SEC. 27

TO PAGOSA SPRINGS

TO N.W. CORNER SEC. 27 FIELD TIE

P.C. 567+50.6

Δ 72°00' L.
12°00'
477.5'
346.9'
600.0'
1790.9
N 71°59' W

PARCEL NO. 1
R.C. & EFFIE A. CARRICO
PAGOSA SPRINGS, COLO.
RIGHT OF WAY ACQUIRED

P.O.T. STA. 575+00

141° 13'

P.T. 573+50.6

School

65'

50'

50'

570

575

580

585

8" Perforated C.M.P. Underdrain

Bearing Equation = S 50° 49' E. Bk. = S 50° 46' E. Ah.

Cultivated

Ditch

Galv. Drain Pipe

P.I. 570+97.5

Blanco Rio

SEC. 27
SEC. 28

SE¼ NE¼ SEC. 28
T 34 N, R I W.

SW¼ NW¼ SEC. 27

To Chama

N

S. 0° 22' E.

Sta. 587+43.5

TO N.W. CORNER OF SEC. 27 CALCULATED

Ditch 3035.48'
N 30° 17' W

PARCEL NO. 1
R.C. & EFFIE A. CARRICO
PAGOSA SPRINGS, COLO.
RIGHT OF WAY ACQUIRED

RIGHT OF WAY

S 89° 18' W.

PARCEL NO. 2
WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

STA. 589+35.2
STA. 589+47.2

77.9

590

595

600

452.8'

S 45° 03' E
100.5

400.0'

N 76° 48' E
81.93'

195.3'
S 44° 34' E

102.0'
S 62° 05' E

690.0'

400.0'

Cultivated

STA. 588+15.8

Sta. 588+755

STA. 590+00

STA. 594+00

STA. 595+00

STA. 599+00

STA. 599+50

NW¼ SW¼ SEC. 27

NE¼ SW¼ SEC. 27

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. + FACTOR
BORROW
STA. YD. O'HAUL
YD. MI. O'HAUL
BORR. SOURCE

STA. 575+00
BEGIN F 24-1(1)

7040
7030
7020
7010
7000
6990
6980
6970

7060
7050
7040
7030
7020
7010
7000
6990
6980

77.40

80.65

+0.5 %

F.L. 75.10

P.I. 78.40

88.40

SOIL A-4

+5.0 %

400' V.C.

8" perforated C.M.P. Drain

F.L. 94.3

95.6

13.0%

00.0

14.20

SOIL A-6-7

12.5

3.1%

21.4

23.05

2960

P.I. 24.20

400' V.C.
NPSD 520'

SOIL A-6-7

Inlet 38.0
Outlet 37.0

+2.7 %

SOIL A-4

SOIL A-4 F.L. 29.3

F.L. 17.3

48.50

50.90

52.70

P.I. 51.20

200' V.C.
NPSD 710'

SOIL A-4

+1.5 %

F.L. 49.8

570
575
580
585
590
595
600

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. + FACTOR
BORROW
STA. YD. O'HAUL
YD. MI. O'HAUL
BORR. SOURCE

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
R/W NOTED
STRUCTURES, ROTATING CH. & O.
NO.
BY
DATE

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

FILE E 1—PLAN-PROFILE O. P. C. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F24-1(1)	4	6

NE¼ SW¼ SEC. 27
T 34 N, R I W.

N.W.¼ S.E.¼ SEC. 27

SE¼ SE¼ SEC. 27

TO N.W. COR. SEC. 27 CALCULATED

STA. 599+00

STA. 599+50

STA. 602+00

STA. 602+50

N

S.0° 44'E.

STA. 604+14.3 P.O.S.T.

P.I. 604+45.6

STA. 605+91.7

STA. 607+00

STA. 608+48.5

S.89° 02'W.

610+50 END 1930 SURVEY
BEGINNING 1932 SURVEY Sta. 608+10.3

TO S.E. CORNER SEC. 27 CALCULATED

2770.32'
S 62° 49'E

Sta. 625+20.2

S.1° 06'E.

4433.64'
N37° 14'W

S84° 13'E
553.91'

S49° 04'E
164.3'

250.0'

N76° 48'E
81.93'

S.42° 12'E
205.0'

S.16° 34'E
107.71'

148.5'

124.92'

115'

85'

90'

50'

62.94'

80°

600

605

610

615

620

625

S.50° 46'E.
690.0'

S36° 44'E
284.9'

S 44° 45'E
161.2'

122.83'

103.06'

94.41'

247.10'

973.1'

621.6'

S.38° 22'E.

70.70'
S 83° 38'W

100.0'

90.13'
N85° 20'E

125'

75'

70°

30°

50'

Δ 12° 24' R.
D 4° 00'
R 1432.5'
T 155.6'
L 310.0'
HOR. S.D. > 1300'

Δ 20° 36' L.
D 4° 00'
R 1432.5'
T 260.3'
L 515.0'
HOR. S.D. 420'

ARC 497.02
R 1382.5
CHORD S 48° 40'E
494.38'

ARC 532.98
R 1482.5
CHORD S48° 40'E
530.14'

P.C. 602+90.25

P.C. 606+00

P.T. 606+52.9

P.C. 618+21.6

P.T. 623+36.6

STA. 623+36.6

STA. 624+70

STA. 627+73.8

S.88° 47'W. Sta. 626+47.0

302.10'

133.4'

94.47'

149.92'

80'

625

630

S.58° 58'E.

363.4'

122.25'
S23° 51'E

200.0'

150'

STA. 627+00

STA. 628+00

STA. 630+00

Rio Blanco

Patented

Patented

STA. 601+90

STA. 605+91.7

STA. 601+52.9

50' Ah. P. I. on P.O.S.T.

STA. 610+00

STA. 610+50

STA. 611+50

STA. 612+00

P.I. 620+80.9

PARCEL NO. 2
WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

PARCEL NO. 3
R.C. & EFFIE A. CARRICO
PAGOSA SPRINGS, COLO.

PARCEL NO. 4
WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

PARCEL NO. 5
U.S. FOREST SERVICE
SAN JUAN NATIONAL FOREST,
DURANGO, COLO.

RIGHT OF WAY

PARCEL NO. 4
WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

SE¼ SW¼ SEC. 27

SW¼ SE¼ SEC. 27
T 34 N, R I W.

PLAN — SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, BY, NO., STRUCTURE NOTATNS CHKD., DATE, BY

PROFILE — SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, BY, NO., STRUCTURE NOTATNS CHKD., DATE, BY

MICROFILMED

7120
7110
7100
7090
7080
7070
7060
7050

+1.50%
+4.00%
+2.50%

200'V.C.
200'V.C.
NPSD 585'
800'V.C.
NPSD 475'
300'V.C.

SOIL A-6
SOIL A-4

63.20
65.33
68.70
84.70
88.32
91.20
99.95 P.T.
109.96
14.78
08.15
05.10
02.97
P.I. 01.10
04.70

F.I. 76.5
F.I. 51.2
F.I. 64.70
F.I. 60.0
F.I. 98.5
F.I. 95.5
F.I. 72.0

600
605
610
615
620
625
630

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. + FACTOR
BORROW
STA. TO HAUL
YD. M. HAUL
BORR. SOURCE

PLATE 1—PLAN-PROFILE — U. S. A. R. E. STANDARD
RUFFEL & ESSIG CO., NEW YORK.

56
789
123

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	5	6

RIGHT OF WAY

Government | Patented

PARCEL NO. 4
WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

PARCEL NO. 6
U.S. FOREST SERVICE
SAN JUAN NATIONAL FOREST,
DURANGO, COLO.

N½ NW¼ SEC. 35

Sec. 27 / Sec. 34

Sta. 626+47.0 S 88° 47' W. ARC 196.81 R 1990.0' CHORD S 56° 08' E 196.73

Pt. 631+70.4

302.10'

856.90'

S 58° 58' E.

630 635 640 645 650 655 660

Δ 5° 40' R
D 3° 00'
T 94.5
L 188.9
R 1910.0
H.S.D. > 1300'

ARC 178.02
R 1800.0'
CHORD S 56° 08' E
177.95'

200.0' 85.77' S 86° 46' E

P.C. 630+75.9 P.T. 632+64.8

1006.3'

Sec. 35 / Sec. 34

S 1° 28' E.

Sta. 638+11.7 Bk.
Orig. P.T. 638+18.8 Ah.

EQUATION

STA. 641+28.8

171.2 101.79 139.91' 110'

S 36° 36' E 104.4'

S 77° 32' E 135.8

591.9'

459.3

440.7

908.05'

200.0'

300.0

STA. 642+78.2

STA. 648+59.3

STA. 649+91.9

Sta. 649+25.6

Sta. 641+91.7

N 89° 41' E.

TO N.W. CORNER SEC. 35 CALCULATED
1505.32'
N 27° 01' W

S.53° 18' E.

53.05' 53.05'

S 41° 59' E 51.01'

S 64° 37' E 50.99'

STA. 653+00 STA. 653+50 STA. 655+50 STA. 656+00

PARCEL NO. 7
WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

STA. 659+00 STA. 660+07.4

P.I. 661+50.9

111.52 S 68° 54' E

111.52 S 37° 41' E

P.C. 660+07.4

NE¼ NE¼ SEC. 34
T 34 N, R 1 W.

S² NW¼ SEC. 35
T 34 N, R 1 W.

Patented

7140 7130 7120 7110 7100 7090 7080 7070

300' V.C.

P.I. 01.10 02.92 04.20

F.L. 01.5

SOIL A4-6

F.L. 96.3

SOIL A-4-6

+2.44%

F.L. 15.7

SOIL A-4

F.L. 98.8

27.90

P.I. 37.20

33.10

F.L. 27.0

SOIL A-4

28.90

-2.2%

F.L. 13.6

22.30

F.L. 17.0

400' V.C.

19.97

P.I. 17.90

21.78

F.L. 00.4

SOIL A-4-6

26.60

+1.94%

F.L. 22.4

800' V.C.
M.P.S.D. 300'

Emb. Factor
Excavation
Embankment
Emb. + Factor
Borrow
Sta. Yd. Haul
Yd. Mi. Haul
Borr. Source

630 635 640 645 650 655 660

PLAN
PROFILE
DRAWN BY
PLOTTED
CHECKED
NOTE BOOK
P.I. OF WAY CHECKED
NO.
DATE
SURVEY DATE
GRADES CHECKED
E.N.S. NOTED
STRUCTURE NOTATIONS CHKD.

FILMED
MICROFILM
DATE

PLAN & PROFILE O.P.R.R. & P.E. STANDARD

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	6	6

RIGHT OF WAY

PARCEL NO. 7
WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

N.W. ¼, Sec. 35
T. 34 N., R. 1 W., N.M.P.M.

N

STA. 559+00
STA. 660+07.4
P.I. 661+50.9
R 2945.0
LC 294.64
S 50°26'E
ARC 294.69
843.73
665
80
50'
50'
80
80
669.4
S. 47°34'E.
80
669+33
669+62.5
670
80
118.34
118.34
237.68
S 50° 56' E
546.1
Telephone
Line
163.50
S 42° 39'E
318.90
66'
66'
675
680
N. 1° 30' W.
STA. 671+37.0
STA. 673+00
STA. 676+18.9
STA. 677+46.1
P.I. 681+44.5
Rio Blanco
35
TO CHROMO
P.C. 679+50.0
Δ = 37°30'R
D = 10°00'
T = 194.5'
L = 375.0'
R = 573.0'
PT 683+25.0
Sta. 676+82.5
STA. 559+00
P.C. 660+07.4
R 2785.
LC 278.63
S 50° 26'E
ARC 278.68
Δ = 5°44'R
D = 2°00'
T = 143.5'
L = 286.7'
R = 2865.0'
HOR. S.D. > 1300'
P.T. 662+94.1 Bk.
= 662+93.3 Ah.
Sta. 670+39.9 N 89°54'E.
STA. 669+62.7
STA. 672+00

PARCEL NO. 8
U.S. FOREST SERVICE
SAN JUAN NATIONAL FOREST,
DURANGO, COLO.

S. W. ¼, Sec. 35
T. 34 N., R 1 W., N.M.P.M.

S.E. ¼, Sec. 35,
T. 34 N., R 1 W., N.M.P.M.

STRUCTURE NOTES FOR BRIDGE
STA. 668+33 - STA. 669+62.5 STRUCTURE NO. P-9-L

PRESENT STRUCTURE:
SPAN-
CLEAR ROADWAY-
CLEAR WATERWAY-
TYPE SUPERSTRUCTURE-
TYPE SUBSTRUCTURE-
REQUIREMENTS AS TO REMOVAL-

PROPOSED STRUCTURE:
POSITION REFERRED TO PRESENT STRUCTURE-
SPAN- 1 @ 125'
CLEAR ROADWAY- 30'
CLEAR WATERWAY- 1500 ±
TYPE OF SUPERSTRUCTURE- THRU STEEL TRUSS
TYPE OF SUBSTRUCTURE- CONCRETE
DETOUR STRUCTURE REQUIREMENTS-
R.R. SIDING- LUMBERTON, N. MEX. HAUL TO BRIDGE SITE 15 MILES

STREAM DATA:
DRAINAGE AREA IN SQ. MILES- 110
VELOCITY DURING HIGH WATER-
ELEVATION OF:
MAXIMUM HIGH WATER- 7102
NORMAL STAGE-
DRIFT - SOME
SCOUR- NONE

LOW WATER-
STREAM BED - 7094.

NEARBY STRUCTURES ON SAME STREAM:
LOCATION-
WATERWAY -
RECORD DURING FLOODS-

EQUATION
NEW ALIGNMENT
=662+93.3 Ah.
662+94.1 Bk.
P.I. 34.40
+1.94 %
SUL A-6
F.L. 22.8
28.67
26.60
800' V.C.
NPSD 455'
-3.794 %
17.30
19.13
P.I. 13.50
200' V.C.
14.20
12.50
-1.0 %
200' V.C.
10.00
09.52
10.10
+1.078 %
P.I. 09.00
STA. 675+00
END F 24-1(1)

7140
7130
7120
7110
7100
7090

660 665 670 675 680

Emb. Factor
Excavation
Embankment
Emb + Factor
Borrow
Sta. Yd. O'haul
Yd. Mi. O'haul
Borr. Source

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

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

MICROFILMED

PLATE, 1 - PLAN-PROFILE "O" P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E Co. No. 346-16

FED. ROAD DIST. NO.	STATE	F.A.P. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	1	

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F 24-1 (1)
STATE HIGHWAY NO. 17

ARCHULETA COUNTY

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 GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT } 10,000.8 LIN. FT. = 1.894 MILES
NET LENGTH OF PROJECT }

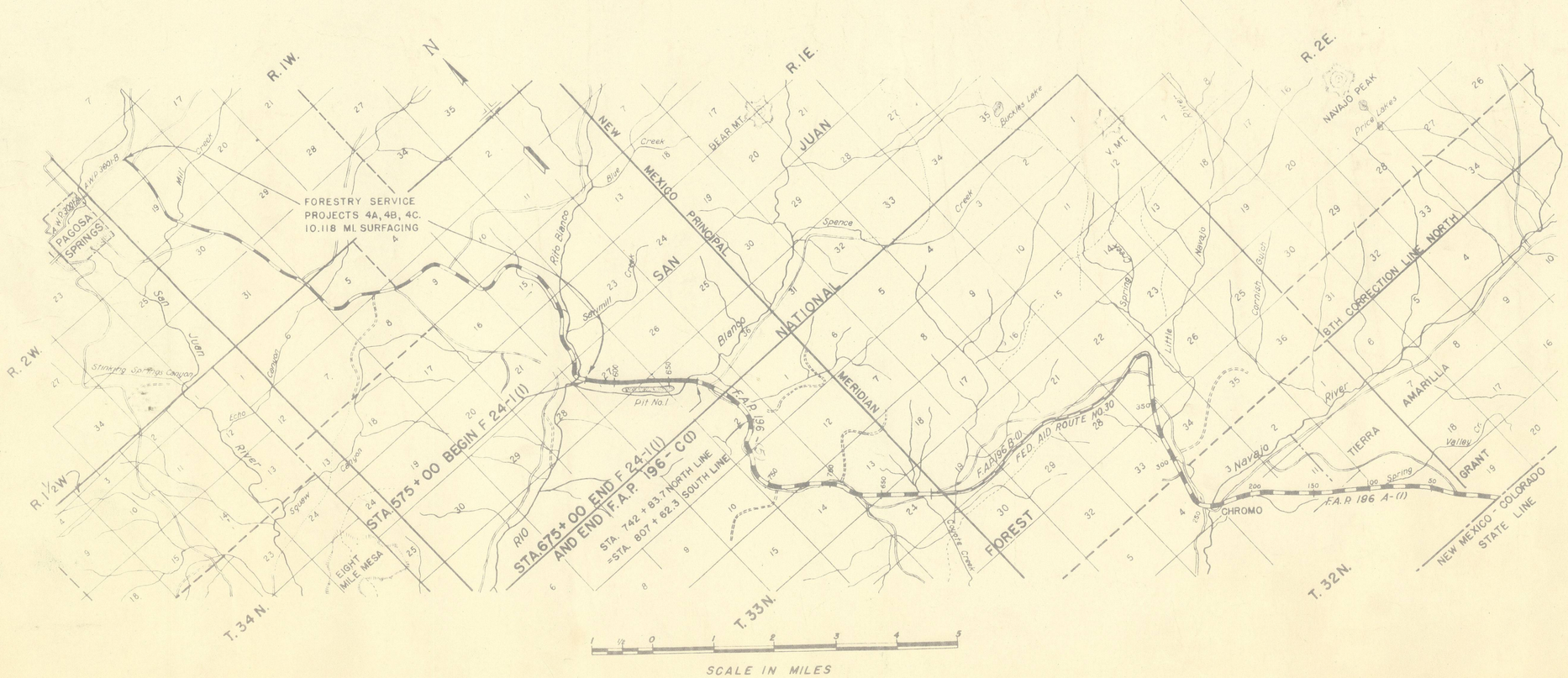
RIGHT OF WAY

INDEX OF SHEETS

1 TITLE SHEET
2 TABULATION OF PROPERTIES
3-6 PLAN AND PROFILE SHEETS SHOWING RIGHT OF WAY REQUIRED.

CONVENTIONAL SIGNS

- CENTER LINE OF SURVEY — 6/0
- RIGHT OF WAY LINES
- SECONDARY ROADS
- TOWNSHIP AND RANGE LINES
- SECTION LINES
- QUARTER SECTION LINES
- BARBED WIRE FENCE
- COMBINATION WIRE FENCE
- TELEPH. & TELEG. LINE



RECOMMENDED FOR APPROVAL

ASSISTANT ENGINEER DATE

APPROVED

STATE HIGHWAY ENGINEER DATE

RECOMMENDED FOR APPROVAL: DATE

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

R.O.W. TABULATION OF PROPERTIES IN ARCHULETA COUNTY S.H. No. 17 PROJ. F 24-1(1)

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

NO.	OWNER	ADDRESS	LOCATION	AREA IN ACRES			ASSESSED VALUATIONS				REMARKS	NO.
				TOTAL LAND	PARCEL	TO BE ACQUIRED	TOTAL LAND	PER ACRE	PARCEL	IMP'S.		
			T.34N., R.1W.									
1	R.C. & EFFIE A. CARRICO	PAGOSA SPRINGS, COLO.	SW1/4 NW1/4; SEC.27	631.83	8.17						Acquired-Book No. 71 Page No. 74	1
2	WOODROW & VIRGINIA NAY DUNLAP	P.O. BOX 36, PAGOSA SPRINGS, COLO.	NE1/4 SW1/4; SEC.27	308.00 258. Grazing 50. Dry farm	4.753	4.753 Grazing land	$1045. $645. Grazing 400. Dry farm	$ 2.50 Grazing land	$11.88	$ 300.	Assessed valuation grazing land $ 645., dry farming $ 400. Right of way to be acquired all grazing land.	2
3	R.C. & EFFIE A. CARRICO	PAGOSA SPRINGS, COLO.	NW1/4 SE1/4; SEC.27	631.83 550.83 Grazing 65. Irrigated 16. Dry farm	1.024	1.024 Grazing land	3450. $1370. Grazing 1950. Irrigated 130. Dry farm	2.50 Grazing land	2.56	1000.	Assessed valuation grazing land $ 1370., dry farming $ 130., irr. land $ 1950. Right of way to be acquired all grazing land. Book 83, Page 296, May 29, 1947	3
4	WOODROW & VIRGINIA NAY DUNLAP	P.O. BOX 36, PAGOSA SPRINGS, COLO.	SW1/4 SE1/4; SEC.27, NW1/4 NE1/4 & NE1/4 NE1/4; SEC.34	308.00 258. Grazing 50. Dry farm	14.242	14.242 Grazing land	1045. $645. Grazing 400. Dry farm	2.50 Grazing land	35.61	300.	Assessed valuation grazing land $ 645., dry farming $ 400. Right of way to be acquired all grazing land.	4
5	UNITED STATES GOVERNMENT	SAN JUAN NATIONAL FORREST POST OFFICE BUILDING DURANGO, COLO.	SE1/4 SE1/4; SEC.27									5
6	UNITED STATES GOVERNMENT	SAN JUAN NATIONAL FORREST POST OFFICE BUILDING DURANGO, COLO.	NW1/4 NW1/4; SEC.35									6
7	WOODROW & VIRGINIA NAY DUNLAP	P.O. BOX 36, PAGOSA SPRINGS, COLO.	SW1/4 NW1/4; & SE1/4 NW1/4; SEC.35	308.00 258. Grazing 50. Dry farm	6.389	6.389 Grazing land	1045. $645. Grazing 400. Dry farm	2.50 Grazing land	15.97	300.	Assessed valuation grazing land $ 645., dry farming $ 400. Right of way to be acquired all grazing land.	7
8	UNITED STATES GOVERNMENT	SAN JUAN NATIONAL FORREST POST OFFICE BUILDING DURANGO, COLO.	NE1/4 SW1/4; SEC.35									8

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	3	

See Revised Sheet #21

NW¼ NW¼ SEC. 27
T 34 N, R 1 W.

SW¼ NW¼ SEC. 27

SE¼ NW¼ SEC. 27

RIGHT OF WAY

To Pagosa Springs

To N.W. Corner of Sec. 27 FIELD TIE

P.C. 567+50.6

Δ 72°00' L.
12°00'
477.5'
346.9'
600.0'
1792.9'
N. 11°59' W.

P.O.T. Sta. 575+00

P.T. 573+50.6

141°13'

School

570

575

580

585

590

595

600

P.I. 570+97.5

Bianco

Rio

SEC. 27
SEC. 28

To Chama

R.C. & EFFIE A. CARRICO
PAGOSA SPRINGS, COLO.
RIGHT OF WAY ACQUIRED

S 00° 22' E
S 87° 44' 35" E
TO N.W. CORNER OF SEC. 27
CALCULATED

Ditch

308.48'
N. 30° 17' W.

Cultivated

8" Perforated C.M.P. Underdrain

Bearing Equation = S. 50° 49' E. Bk. = S. 50° 46' E. Ah.

Galv. Drain Pipe

Cultivated

155.3'
S. 44° 34' E.

400.0'

Cultivated

R.C. & EFFIE A. CARRICO
PAGOSA SPRINGS, COLO.
RIGHT OF WAY ACQUIRED

Pt. of Beg. Left of Sta. 587

S 89° 18' W

WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

Sta. 589+35.2
Sta. 589+47.2

452.8'

S 45° 23' E
100.5'

400.0'

S 72° 34' E
107.71'

690.0'

Cultivated

S 58° 17' E

Sta. 589+00
Sta. 590+00
Sta. 594+00
Sta. 595+00
Sta. 599+00
Sta. 600+00

102.0'
S 62° 03' E.

Cultivated

SE¼ NE¼ SEC. 28
T34 N, R 1 W.

SW¼ NW¼ SEC. 27

NW¼ SW¼ SEC. 27

NE¼ SW¼ SEC. 27

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. + FACTOR
BORROW
STA. YD. O'HAUL
YD. MI. O'HAUL
BORR. SOURCE

STA. 575+00
BEGIN F 24-1(1)

7040
7030
7020
7010
7000
6990
6980
6970

400' V.C.

+0.5 %

+5.0 %

+2.7 %

+1.5 %

77.40
80.65
88.40
84+44

P.I. 78.40

F.L. 75.0

F.L. 94.3

SOIL A-4

SOIL A-6-7

8" perforated C.M.P. Drain

22.6
13.2'
5.4'

14.20

P.I. 24.20

21.4

18.5

23.05

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

29.60

SOIL A-6-7
Inlet 38.0
Outlet 37.0

SOIL A-4
SOIL A-6-7 F.L. 29.7

F.L. 17.3

P.I. 51.20

48.50
50.90
52.70

200' V.C.
N.P.S.D. 710'

F.L. 49.8

7060
7050
7040
7030
7020
7010
7000
6990
6980

570
575
580
585
590
595
600

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. + FACTOR
BORROW
STA. YD. O'HAUL
YD. MI. O'HAUL
BORR. SOURCE

PLAN
SURVEYED
PLOTTED
NOTE BOOK
GRADE CHECKED
B. M.'S NOTED
NO.
R/W CHECKED
R/W CHECKED
STRUCTURE NOTATIONS CH. KD.
DATE
BY

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

F. H. E. S. - PLAN PROFILE D. P. C. & R. STANDARD

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F24-1(1)	4	

See Revised Sheet 21

RIGHT OF WAY

NE¼ SW¼ SEC. 27
T 34 N, R 1 W.

SE¼ SE¼ SEC. 27

SE¼ SW¼ SEC. 27

SW¼ SE¼ SEC. 27
T 34 N, R 1 W.

TO N.W. COR SEC 27 CALCULATED

Sta 599+00

Sta 600+00

Sta 602+90

Sta 604+43 on P.O.S.T.

443.64
N. 37°14' W.

S. 72° 34' E.
107.71

290.0'

S. 48° 28' E.
124.3

P.I. 604+45.6

R.C. & EFFIE A. CARRICO
PAGOSA SPRINGS, COLO.

S. 42° 12' E.

Sta 605+91.7

Sta 607+00

S. 16° 34' E.
207.77

S. 89° 02' W.

Sta 605+43.5

TO S.E. CORNER SEC. 27 CALCULATED

610+50 END 1930 SURVEY
BEGINNING 1932 SURVEY — 608+10.3

2770.32'
S. 62° 49' E.

WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

S. 12° 06' E. — 625+64.2

U.S. FOREST SERVICE
SAN JUAN NATIONAL FOREST
DURANGO, COLO.

P.I. Sta. 629+39.4

Sta 624+38.8

Sta 627+60.9

S. 38° 47' W.
625+70'
12062.

Sta 630+00

WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

50' +50'
600
S. 50° 46' E.
690.0'

50' +50'
102.08'
S. 36° 44' E.

75'
164'
S. 44° 45' E.

P.C. 602+90

Sta 601+90

WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

Δ 12° 24' R.
D 4° 00'
R 1432.5'
T 155.6'
L 310.0'
HOR. S.D. > 1300'

P.T. 606+00

Sta 607+50

Sta 60' Ah. P.I. at 125.5°

Sta 611+00

Sta 612+00

50' +50'
161.2'
347.10'

610
75' 70'
103.08'
S. 52° 24' E.

1001.5'

615
50' +50'
S. 38° 22' E.
1569.19'

Sta 618+50

P.C. 619+75

620

Δ 20° 38' L.
D 4° 00'
R 1432.5'
T 260.3'
L 515.0'
HOR. S.D. 420'

Sta 624+38.8

P.T. 624+90

625

239'
S. 53° 03' E.
605.4'

Sta 627+60.9

S. 38° 47' W.
625+70'
12062.

Sta 630+00

630

P.I. 622+35.4

Patented

Rio Blanco

Channel Change

288.2'
Patented

WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

627+11.8

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

PROFILE
SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
B.M.'S NOTED
STRUCTURE NO. ALT'N'S CH'KD.
NO.
BY
DATE

7120
7110
7100
7090
7080
7070
7060
7050

+1.60%
SOIL A-4
SOIL A-6
6320
6533
6870
P.I. 64+70
F.L. 54.2
200' V.C.
+4.00%
F.L. 76.5
8470
8832
9120
200' V.C.
NPSD 585'
F.L. 60.0
SOIL A-4
8870.27
+2.50%
F.L. 98.5
10995
F.L. 38.5
14.78
800' V.C.
NPSD 475'
F.L. 09.8
08.15
05.10
P.I. 01.10
02.97
300' V.C.
04.70
F.L. 72.0

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. ¼ FACTOR
BORROW
STA. YD. O'HAUL
YD. MI. O'HAUL
BORR. SOURCE

600 605 610 615 620 625 630

PLATE 1 — PLAN - PROFILE — U. S. A. R. E. STANDARD
KUEBEL & ESSLER CO. NEW YORK.

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(11)	5	

RIGHT OF WAY

See Revised Sheet 22

Government

Patented

U.S. FOREST SERVICE
SAN JUAN NATIONAL FOREST,
DURANGO, COLO.

N½ NW¼ SEC. 35

WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

SEC. 27
SEC. 34

SEC. 35
SEC. 34

TO N.E. CORNER OF SEC. 34
CALCULATED
N 27°01' W.
1505.32'

S 66°47' W.
1124.74'
1312.54'

625+70.7

Sta. 630+00

Sta. 631+00

Sta. 632+50

Sta. 630+00

Sta. 636+29.9

Sta. 638+18.8

Sta. 641+36.7

Sta. 642+79.2

Sta. 643+59.3

Sta. 649+81.9

649+25.8

Sta. 659+00

Sta. 660+07.4

P.I. 661+50.9

R. 1980.0'
CHORD S. 56°08' E.

P.I. 637+24.4

S 10°28' E.
774.6'

317.93'

263.27'

S 42°00' E
702.0'

491.95'

908.05'

S. 68° 54' E.
111.52'

S. 37°41' E.
111.52'

239.1'

529.9'

379.9'

459.4'

429.3'

1040.7'

S. 58°58' E.

S. 53°18' E.

S. 58°32' E.
279.51'

S. 74°52' E.
163.22'

R. 1800.0'
CHORD S. 56°08' E.
177.9'
Δ 5°40' R.
D 3°00'
R 1910.0'
T 94.5'
L 188.9'
HOR. S. D. 520'

139.91'

630 635 640 645 650 655 660

CHANNEL CHANGE
288.2'

N 89° 41' E

NE¼ NE¼ SEC. 34
T 34 N, R 1 W.

S² NW¼ SEC. 35
T 34 N, R 1 W.

Patented

WOODROW & VIRGINIA NAY DUNLAP
PAGOSA SPRINGS, COLO.

PROFILE — NOTE BOOK, ALIGNMENT CHECKED, PROFILE CHECKED, NO.

DATE

7140
7130
7120
7110
7100
7090
7080
7070

300' V.C.

+2.44%

-2.2%

400' V.C.

+1.94%

800' V.C.
M.P.S.D. 500'

02.92
04.20
01.10

F.L. 01.5
F.L. 96.3
F.L. 98.8
F.L. 15.7
F.L. 27.0
F.L. 13.6
F.L. 12.0
F.L. 00.4
F.L. 22.4

SOIL A-4-6
SOIL A-4
SOIL A-4
SOIL A-4-6
SOIL A-4
SOIL A-4-6

P.I. 37.70
33.10
27.90
28.90
22.90
19.97
P.I. 17.90
21.78
23.60

Emb. Factor
Excavation
Embankment
Emb. + Factor
Borrow
Sta. To Haul
Yd. Mi. Haul
Borr Source

630 635 640 645 650 655 660

PLATE 2 - PLAN-PROFILE SHEET A.A.S.H.O. STANDARD

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.
3	COLO.	F 24-1(1)	6

RIGHT OF WAY

WOODROW & VIRGINIA MAY DUNLAP
PAGOSA SPRINGS, COLO.

N.W. ¼, Sec. 35
T. 34 N., R. 1 W., N.M.P.M.

N

cc. Fitzhugh

Sta. 659+00 · Sta. 660+07.4 · P.I. 661+50.9 · Sta. 671+27.1 · Sta. 676+18.9 · P.I. 681+44.5

R. 2945.0'
CHORD
294.64'
S. 50°26'E.

568°54'E
111.52'
S. 37°41'E

843.73'

S. 47°34'E.

669.4'

R. 2785.0'
CHORD S. 50°26'E.
278.63'

Rio Blanco

S42°39'E
163.5'
318.9'

118.34'
118.34'
S. 50°56'E.
237.68'

546.1'

Telephone Line

Δ = 37°30'R
D = 10°00'
T = 194.5'
L = 375.0'
R = 573.0'

P.T. 683+25.0

TO CHROMO

Sta. 659+00

P.C. 660+07.4

Δ = 5°44'R
D = 2°00'
T = 143.5'
L = 286.7'
R = 2865.0'
HOR. S.D. > 1300'

P.T. 662+94.1 Bk.
= 662+93.3 Ah.

Sta. 669+52.7 N89°54E

670+39.9

Sta. 677+46.1
=677.0

676+22.5

U.S. FOREST SERVICE
SAN JUAN NATIONAL FOREST,
DURANGO, COLO.

S.W. ¼, Sec. 35
T. 34 N., R. 1 W., N.M.P.M.

S.E. ¼, Sec. 35,
T. 34 N., R. 1 W., N.M.P.M.

STRUCTURE NOTES FOR BRIDGE
STA. 668+33 - STA. 669+62.5 STRUCTURE NO. P-9-L

PRESENT STRUCTURE:
SPAN-
CLEAR ROADWAY-
CLEAR WATERWAY-
TYPE SUPERSTRUCTURE-
TYPE SUBSTRUCTURE-
REQUIREMENTS AS TO REMOVAL-

PROPOSED STRUCTURE:
POSITION REFERRED TO PRESENT STRUCTURE-
SPAN - 1 @ 125'
CLEAR ROADWAY - 30'
CLEAR WATERWAY - 1500 sq ft
TYPE OF SUPERSTRUCTURE - THRU STEEL TRUSS
TYPE OF SUBSTRUCTURE - CONCRETE
DETOUR STRUCTURE REQUIREMENTS-
R.R. SIDING - LUMBERTON, N. MAX. HAUL TO BRIDGE SITE 15 MILES

NEARBY STRUCTURES ON SAME STREAM:
LOCATION -
WATERWAY -
RECORD DURING FLOODS -

STREAM DATA:
DRAINAGE AREA IN SQ. MILES - 110
VELOCITY DURING HIGH WATER -
ELEVATION OF:
MAXIMUM HIGH WATER - 7102
NORMAL STAGE -
DRIFT - SOME
SCOUR - NONE

LOW WATER -
STREAM BED - 7094.

EQUATION

NEW ALIGNMENT

=662+93.3 Ah.

662+94.1 Bk.

P.I. 34.40

+1.94%

FL 22.2

26.60

28.67

800' V.C.
NA SD 455'

-3.794%

17.30

19.19

200' V.C.

14.20

12.50

P.I. 13.50

-1.0%

10.00

09.52

200' V.C.

10.10

+1.078%

P.I. 09.00

STA. 675+00
END F 24-1(1)

7140 · 7130 · 7120 · 7110 · 7100 · 7090

660 · 665 · 670 · 675 · 680

Emb. Factor
Excavation
Embankment
Emb + Factor
Borrow,
Sta. Yd. Haul
Yd. Mi. Haul
Borr. Source

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 NOTES VS CHKD., BY, DATE

670 39.9
669 62.5
77.4

PLATE 1 - PLAN PROFILE OF P. R. & R. G. STANDARD
SOURCE: J. ESSER CO., NEW YORK

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO	F 24-1(1)	4	

RIGHT OF WAY

NE¼ SW¼ SEC. 27
T 34 N, R 1 W.

SE¼ SE¼ SEC. 27

SE¼ SW¼ SEC. 27

SW¼ SE¼ SEC. 27
T 34 N, R 1 W.

NW¼ NE¼ SEC. 34

SEC. 27
SEC. 34

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

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

Δ 12°24' R.
D 4°00'
R 1432.5'
T 155.6'
L 310.0'
HOR. S.D. > 1300'

Δ 20°38'
D 4°00'
R 1432.5'
T 260.3'
L 515.0'
HOR. S.D. 420'

S.50°46'E.

S.38°22'E

S.58°58'E.

S-62°49'E
2770.32
(Calc)

To Cor. Tract in Woodrow Dunlop

S 00°41'E 50 Ab. P.I. 604+45.6

610-50 END 1930 SURVEY
BEGINNING 1932 SURVEY

P.C. 602+90

P.T. 606+00

P.C. 618+21.6

P.C. 619+75

P.C. 623+36.6

P.T. 624+90

P.I. 622+35.4

Tract No 2
14.242 Acres

Patented

Dunlap

Franco

Blanco

Channel Change

R.R.

Not

(0.1865)

7120
7110
7100
7090
7080
7070
7060
7050

+1.50%
+4.00%
+2.50%
-2.7%

200' V.C.
200' V.C. NPSD 585'
800' V.C. NPSD 475'
300' V.C.

SOIL A-4
SOIL A-6

F.L. 54.2
F.L. 76.5
F.L. 60.0
F.L. 98.3
F.L. 72.0

P.I. 64.70
88.70 P.I.
99.95 P.I.
P.I. 01.10

63.20
65.33
68.70
84.70
88.32
91.20
09.85
14.78
08.15
05.10
02.97
14.20

EMB. FACTOR
EXCAVATION
EMBANKMENT
EMB. + FACTOR
BORROW
STA. YD. O'HAUL
YD. MI. O'HAUL
BORR. SOURCE

600 605 610 615 620 625 630

PLATE 1 - PLAN-PROFILE - A.A.R.E. STANDARD
RUFEL & ESSER CO. N.Y.

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	5	

RIGHT OF WAY

PLAN — DATE — BY — REVISED — HOR. BOOK ALIGNMENT CHECKED — BY RAY CHITWOOD — NO.

PROFILE — DATE — BY — PLOTTED — CLOSE STEEL — VERT. EXAG. — NOTE "NOAA" STRUCTURE NOTE — NO. — STRUCTURE NO. — M.H.D.

Government — Patented — N½ NW¼ SEC. 35

SEC. 27 SEC. 34 — SEC. 35 SEC. 34

S 88° 47 W — 6254.70' — N 58° 58' W. 478.0' — S 58° 58' E. 320.0'

N 37° 01' W 1505.32' (calc.)

Forest Lake

NW¼ of NW¼ Sec 35

L = 3541.5' D = 1°41'15" — L = 3867.35 D = 1°52'47" — L = 3928.09 D = 1°52'29.05" — L = 4038.15 D = 1°47'31.53" — L = 4385.49 D = 2°52'57.82" — L = 4461.88 D = 2°53'25.94" — L = 4755.37 D = 3°01'30.12" — L = 5297.96 D = 6°44'8.23" — L = 5338.10 D = 6°55'22.7"

P.I. 637+24.4 — P.I. 661+50.9

Δ 5°40'R.
D 3°00'
R 1910.0'
T 94.5'
L 188.9'
HOR. S. D. 520'

P.C. 636+29.9 — P.T. 638+18.8 — P.C. 660+07.4

S. 58° 58' E. — S. 53° 18' E. — S. 53° 18' E. — S. 53° 18' E.

L = 4182.97 D = 4°46'3.96 — L = 4499.63 D = 5°9'3.86 — L = 4457.02 D = 5°5'27.1 — L = 4756.19 D = 5°55'48.1

L = 3865.78 D = 3°32'.03 — L = 3887.48 D = 3°42'10.73 — L = 4033.33 D = 4°44'28.25

Channel Change

Dunlop — Dunlop — N 89° 41' E

NE¼ NE¼ SEC. 34 ✓
T 34 N, R 1 W.

S² NW¼ SEC. 35
T 34 N, R 1 W.

Patented

7140 / 7130 / 7120 / 7110 / 7100 / 7090 / 7080 / 7070

300' V.C. — 800' V.C. W.P.S.D. 300' — 400' V.C.

P.I. 01.10 — 02.97 — 04.70 — P.I. 37.70 — 33.10 — 27.90 — 28.90 — P.I. 17.90 — 19.97 — 22.30 — 21.78 — 26.60

+2.44% — -2.2% — +1.94%

SOIL A-4-6 — SOIL A-4 — SOIL A-4 — SOIL A-4-6 — SOIL A-4 — SOIL A-4-6

F.L. 01.5 — F.L. 96.3 — F.L. 15.7 — F.L. 98.8 — F.L. 27.0 — F.L. 13.6 — F.L. 12.0 — F.L. 00.4 — F.L. 22.4

Emb. Factor
Excavation
Embankment
Emb. + Factor
Borrow
Sta. To Haul
Yd. Mi. Haul
Borr Source

630 / 635 / 640 / 645 / 650 / 655 / 660

PLATE 1 - LAND PROFILE C.D.P.W. & P.E.S. STANDARD

NE¼ SW¼ SEC. 27
T 34 N, R 1 W.

SE¼ SE¼ SEC. 27

Denver Revised Sheets

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F24-1(11)	21	

PLAN — SURVEYED | PLOTTED | NOTE BOOK | CROSS-CHECKED | NO. | R/T. OF WAY CHECKED | DATE

PROFILE — SURVEYED | PLOTTED | NOTE BOOK | CROSS-CHECKED | NO. | R.R. NOTED. | STRUCTURE NO. | ATTNG. GR'K'D. | DATE

N

604+35, Req'd: 48"x64' Cross Culvert, Type "C" Hdwl., Ditches (W=2').

607+75, Req'd: 18"x24' Side Drain, Road Appr. & 36"x30' Side Drain in Irrig. Lateral Lt.

610+50 END 1930 SURVEY BEGINNING 1932 SURVEY

610+50, Req'd: Road Approach Lt.

611+26, Req'd: 36"x130' Cross Culvert, Type "C" Hdwl., Ditches (W=2').

613+00, Req'd: 18"x28' C.M.P. Side Drain Lt. and Road Approaches Lt. and Rt.

616+80, Req'd: Road Approach Rt. & Lt.

617+50, Req'd: 30"x64' Cross Culvert Type "C" Hdwl. Lt.

623+79, Req'd: 24"x66' Cross Culv. Type "C" Hdwl., Lt. & Grouted Rubble Slope Paving at outlet.

629+06, Req'd: 36"x168' Cross Culvert, Type "C" Hdwl., Ditches (W=2').

609+50, Req'd: 36"x50' Cross Culv., Type "C" Hdwl. Rt.

P.I. 604+45.6

P.C. 602+90

P.T. 606+00

P.C. 618+21.6

P.C. 619+75 (Orig.)

P.T. 623+36.6

P.T. 624+90 (Orig.)

P.I. 620+80.9

P.I. 622+35.4

P.I. 36

S.50°46'E.

S.38°22'E.

S 58°58'E

Projected Line

Surveyed Line

Δ	12°24'R.
D	4°00'
R	1432.5'
T	155.6'
L	310.0'

HOR. S.D. > 1300'

Δ	20°36'L.
D	4°00'
R	1432.5'
T	260.3'
L	515.0'

HOR. S.D. 420'

N.G.S. See Plan Sheets

Patented

Rio Blanco

SEC. 27

SEC. 34

SE¼ SW¼ SEC. 27

SW¼ SE¼ SEC. 27
T 34 N, R 1 W.

CLEARING & GRUBBING
619+00 to 635+00 — Light Oak Brush

1.16 LINE

7120
7110
7100
7090
7080
7070
7060
7050

+1.60%
+4.00%
+3.20%
-5.16%

200' V.C.
200' V.C.
NASD 585'
800' V.C.

SOIL A-4
SOIL A-6

F.L. 51.2
F.L. 81.3
F.L. 60.0
F.L. 81.4
F.L. 19.9
F.L. 87.5

63.20
65.33
68.70
84.70
88.50
88.70 PT
64.70
25.40
29.90
17.80
05.10
04.20

| | | |

Denver Revised Sheets

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	22	

Government | Patented | N½ NW¼ SEC. 35 | SEC. 27 SEC. 34 | SEC. 35 SEC. 34

P.I. 631+70.4

Projected Line | Surveyed Line

S. 58° 58' E.

Δ=5°40'R
D=3°00'
T=94.5'
L=188.9'
R=1910.0'
H.S.D.> 1300'

P.C. 630+75.9

632+91, Req'd: 24"x46' Cross Culvert, Type "C" Hdwl. Lt., Intercepting Hdwl. Lt. Grouted Rubble Slope Paving at Inlet

636+00, Req'd: 24"x116' Cross Culvert, Type "C" Hdwl. Lt., Inlet Ditch(W=1') Grouted Rubble Slope Paving at Outlet.

N.G. See Plans Sheets

Orig. P.C. 636+29.9

Orig P.I. 637+24.4

Δ 5°40'R.
D 3°00'
R 1910.0'
T 94.5'
L 188.9'
HOR. S. D. 520'

EQUATION Sta 638+11.7 Bk. = Orig P.T. 638+18.8 Ah.

638+50, Req'd: 24"x64' Cross Culvert, Type "C" Hdwl. Lt., Inlet Ditch(W=1') Grouted Rubble Slope Paving at Outlet.

641+55, Req'd: 30"x162' Cross Culvert, Type "C" Hdwl. Lt.

645+50, Req'd: 24"x48' Cross Culvert, Type "C" Hdwl. Lt., Inlet Ditch(W=1')

650+75, Req'd: Road Appr. Rt. & Lt.

649+40, Req'd: 84"x70' Cross Culvert, Cattle Pass, 2 Type "G" Hdwls., Ditches. (W=4') Backfill Invert 6" thick (Force Account)

654+00, Req'd: 24"x96' Cross Culvert, Type "C" Hdwl. Lt., Grouted Rubble Slope Paving at Outlet.

P.I. 661+50.9

P.C. 660+07.4

NE¼ NE¼ SEC. 34
T 34 N, R 1 W.

S² NW¼ SEC. 35
T 34 N, R 1 W.

CLEARING & GRUBBING
635+00 to 661+00 - Light Oak Brush

630 | 635 | 640 | 645 | 650 | 655 | 660

7140 | 7130 | 7120 | 7110 | 7100 | 7090 | 7080 | 7070

300' V.C.

02.97 | 12.60 | 12.80 | P.I. 109.9 | +2.06% | F.L. 87.5 | F.L. 10.3 | F.L. 99.4 | SOIL A-4-6

800' V.C.
N.P.S.D. 300'

SOIL A-4-6 | SOIL A-4 | F.L. 18.1 | 29.47 | 33.40 | P.I. 37.20 | SOIL A-4 | F.L. 97.0 | F.L. 28.2 | SOIL A-4 | 28.20 | -2.2% | F.L. 13.6

400' V.C.

22.30 | F.L. 16.7 | 19.97 | P.I. 17.90 | 21.78 | +1.94% | SOIL A-4-6 | 26.63 | F.L. 23.7 | F.L. 00.4

| | | |

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(11)	24	

N.W. ¼, Sec. 35, T. 34 N., R. 1 W., N.M.P.M.

660+60, Req'd: 24"×52' Cross Culv. Type "C" Hdwl. Lt. Inlet Ditch (W=1) Grouted Rubble Slope & Ditch Paving at Outlet.

P.I. 661+50.9

L=344.36 D=4°49'14"

R=2865.0' Bearing S 50°-26' E

L=38.13 D=6°40.00

660

663

818.54'

S 47°34' E

674.66'

Rio Blanco

670+39.9

N 84°54' E

670+82.5

N 1°30' W.

P.I. 681+44.5

675

680

Ditch

50'

50'

66'

66'

8'

Arc 239.10 Ch. 237.94 Bearing S 55°-26' E.

L=344.36 D=4°49'14"

L=52.33 D=6°08.14

L=52.33 D=6°08.14

L=52.33 D=6°08.14

COLORADO
Department of Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500000954

Description:
ROW Plans 24X36

Route # and Mile Points:
US 84

Originating Office:

ROW/Survey

File Name:
F 24-1(1)-ROW(.PDF)

Box Location:

19 (TUBE-19)of 38

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

MOUNTAIN STATES IMAGING

F24-10

F-24-101

F24-101
R.O.W.
1"=400'

COLORADO
Department of Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.

r500001622

Description:
ROW Plans 11X17

Route # and Mile Points:
US 84

Originating Office:

ROW/Survey

File Name:
F 24-1(1)_ROW(.PDF)

Box Location:

26 of 38

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

MOUNTAIN STATES IMAGING

FED. ROAD DIST. NO.	STATE	F.A.P. PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	F 24-1(1)	1	

Rev. 10-2-47 - W.H.M. - Map.

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F 24-1 (1)
STATE HIGHWAY NO. 17

ARCHULETA COUNTY

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 GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT } 9,993.7 LIN. FT. = 1.892 MILES
NET LENGTH OF PROJECT }

INDEX OF SHEETS

Sheet 1	Sketch Map and Title Page	
2	Typical Section, Tabulation of Length & Typical Section for Channel and Ditch Change	
3	Summary of Quantities & Detail of Underdrain	
4	Tabulations of Surfacing, Ballast, Guard Posts, R.O.W. Markers, and Fencing Requirments	
5	List of Structures	
6	Details of Galvanized Metal Flume	
7-9	Details of Bridge Sta. 668+	
10	Standard Letters & Figures for Year & Structure Numbers	M 10 B
11	Standard Marker Posts	M 7 B
12	Standard Headwalls for C.M.P. Culverts	M 102 G
13	Standard Type "G" Headwalls for Large C.M.P. Culverts	M 102 G-LP
14	Standard Siphon Corr. Galv. Iron Pipe with Conc. Inlet & Outlet Boxes	M 123 B
15	Standard Timber Guard Posts	M 19 B
16	Standard Wire Fences (Treated Wooden Posts)	M 24 G
17	Standard Methods for Superelevation etc.	M 1 B
18	Typical Side Appr. Roads, Flaring, Cut Slope Treat., & Widening at Bridges	M 2 C
19	Standard Roadway Construction Traffic Signs	M 2 D
20	Contour Intercepting & Drainage Ditches	M 107 B
21-24	Alignment Plan & Profile	
25-63	Cross Sections	
64	Summary of Earthwork Quantities & Tabulation of Intercepting Ditches	

CONVENTIONAL SIGNS

CENTER LINE OF SURVEY 6/0
RIGHT OF WAY LINES
SECONDARY ROADS
TOWNSHIP AND RANGE LINES
SECTION LINES
QUARTER SECTION LINES
BARBED WIRE FENCE
COMBINATION WIRE FENCE
TELEPH. & TELEG. LINE

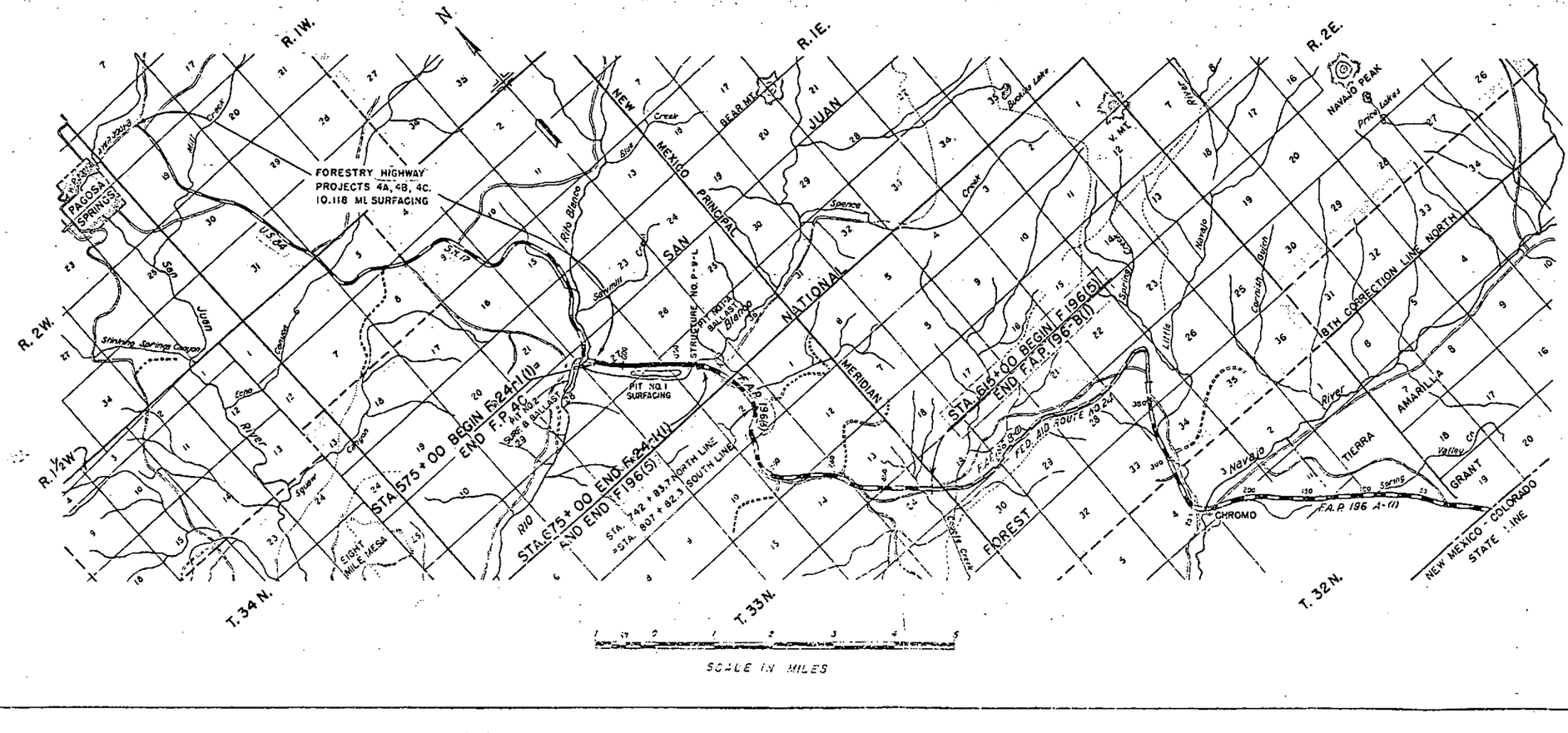
Copy

FILE

NOTE:

It is recommended that bidders on this project go over the plan details with the following field representative of this Department.

J.E. Casey, Division Engineer, Durango, Colorado.



RECOMMENDED FOR APPROVAL
Jas. E. Bell
ASSISTANT ENGINEER DATE 9-5-47

APPROVED
Mark H. Watrous
STATE HIGHWAY ENGINEER DATE 9-6-47

RECOMMENDED FOR APPROVAL - DATE

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F24-1(1)	21	

NW¼ NW¼ SEC. 27
T34 N, R 1 W.

SW¼ NW¼ SEC. 27

SE¼ NW¼ SEC. 27

SE¼ NE¼ SEC. 28
T34 N, R 1 W.

SW¼ NW¼ SEC. 27

NW¼ SW¼ SEC. 27

NE¼ SW¼ SEC. 27

NOTE:

Alignment and Grades shown on the plans 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 the plans are encountered during construction, necessary modifications of the grading plan shown on the plans will be made to secure dense stable embankment.

Tabulations of Fencing, R.O.W. Markers, Guard Posts, Surfacing and Ballast are shown on Sheet No. 4

Typical Section for Channel and Ditch Changes is shown on Sheet No. 2.

Details of Metal Flume is shown on Sheet No. 6.

To PAGOSA SPRINGS

P.C. 567+50.6

R = 400'
72°00' L.
12°00'
477.5'
848.9'
800.0'

P.T. 573+50.6

School

Spring

575 +00, Req'd: Appr. to Project and Project Marker.

576 +50; Req'd: 18"x26" Side Drain and Road Approach, Lt.

580 +50, Req'd: 18"x26" Side Drain & Road Approach, Rt.

576 +80 to 579+00, Req'd: 8"x220' perforated C.M.P. Underdrain, Lt.

580 +00, Req'd: 24" x 46' Cross Culvert, Intercepting Ditches. (W=1)

Cultivated

Ditches (W=1')

Bearing Equation = S.50°49'E. Bk = S.50°46'E. Ah.

Spring

4" Galv. Drain Pipe

Ditch

Cultivated

Pt. 570+97.5

Blanco Rto

SEC. 27
SEC. 28

To Chama

581+00 to 586+00, Req'd: 8"x500' Perforated C.M.P. Underdrain Lt.

581+25, Req'd: 18"x26" Side Drain & Road Approach Lt.

588+50, Req'd: 24"x75' C.M.P. Siphon, (H=7.6Lt. & 7.0Rt.) Ditches (W=1'), Strand. Inlet & Outlet Boxes 2'-24" Trash Guards, 1-4" Valve & Valve Box, & 160' of 4" Met-al Drain Pipe.

589+10, Req'd: 18"x28' Side Drain & Road Approach, Lt.

Ditch

Cultivated

591+04, Req'd: 84"x94' Cross Culvert, 2 Type "6" Hdwls., Channel change Lt. (W=12') Excavation Material to be used to fill old channel.

597+25, Req'd: Road Approach, Lt.

597+50, Req'd: 24"x54' Cross Culvert & Ditch. (W=1)

598+50, Req'd: Road Appr. Rt.

SIPHON STA. 588+50

750"
Fl. 38.0
Fl. 37.0
4-70
76"
21'5"
26"
22"
19'7"
410"

STA. 575+00
BEGIN F 24-1(1)=
END F.P. 40

TEST #87 A4
LL = 25.8
PI = 7.6
-200 = 71.5 %
7' LT. OF ℄

TEST #87A A4
LL = 23.4
PL = 4.9
-200 = 25.4 %

TEST #89 A4
LL = 31.6
PI = 6.6
-200 = 91.8 %

TEST #90 A6-7
LL = 43.8
PI = 16.7
-200 = 96.6 %

TEST #91 A6-7
LL = 44.8
PI = 22.8
-200 = 99.2 %

TEST #92 A6-7
SIMILAR TO #91

TEST #93 A6-7
LL = 39.6
PI = 19.7
-200 = 96.4 %

TEST #93A A4
LL = 34.5
PI = 16.0
-200 = 86.8 %

TEST #94 A4
LL = 30.3
PI = 8.0
-200 = 87.0 %

TEST #95 A4
SIMILAR TO #94

TEST #96 A4
LL = 23.3
PI = 2.2
-200 = 51.2 %

TEST #97 A4
LL = 30.5
PI = 11.7
-200 = 75.3 %

TEST #97A A4
LL = 26.9
PI = NON PL.
-200 = 45.0 %
ROCK ?

TEST #98 A4
SIMILAR TO #97

TEST #99 A4
SIMILAR TO #97

TEST #100 A4
SIMILAR TO #97

+0.5 %
+5.0 %
+2.7 %
+1.5 %

P.I. 10.40
P.I. 24.20
P.I. 51.20

400' V.C.
400' V.C.
NPSD 520'
200' V.C.
NPSD 710'

17.40
80.65
88.40
14.20
23.05
29.60
50.90
52.70
46.50

Inlet 38.0
Outlet 37.0
Fl. 28.2
Fl. 54.3
Fl. 49.8
Fl. 12.1

6" Perforated C.M.P. Underdrain

7060
7050
7040
7030
7020
7010
7000
6990
6930
6870

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	22	

NE¼ SW¼ SEC. 27
T 34 N, R 1 W.

SE¼ SE¼ SEC. 27

SE¼ SW¼ SEC. 27

SW¼ SE¼ SEC. 27
T 34 N, R 1 W.

CLEARING & GRUBBING
619+00 to 635+00-Light Oak Brush

604+35, Reqd: 48"x 84' Cross Culvert, Type "C" Hdwl. Lt. Ditches. (W-2')

605+00 to 607+61, Reqd: 277 Lin. Ft. Galv. Metal Flume & Berm Lt. (Details on Sheet 6)

607+75, Reqd: 18"x 24' Side Drain, Road Appr. & 36"x 30' Side Drain in Irrig. Lateral Lt.

609+65 to 611+70, Reqd: 224 Lin. Ft. Galv. Metal Flume & Berm Rt., Metal Collar & Flume Type Conc. Hdwl. at Inlet. (Details on Sheet 6)

610+50 END 1930 SURVEY
BEGINNING 1932 SURVEY

610+50, Reqd: Road Approach Lt.

611+26, Reqd: 36", 19' Cross Culvert, Type "C" Hdwl. Lt. Ditches. (W-2').

616+80, Reqd: Road Approach Rt. & Lt.

617+50, Reqd: 30"x 64' Cross Culvert Type "C" Hdwl. Lt.

623+79, Reqd: 24"x 66' Cross Culv. Type "C" Hdwl. Lt. & Dry Rubble Slope & Ditch Paving at Outlet.

627+93 to 630+37, Reqd: 252 Lin. Ft. Galv. Metal Flume & Berm Rt., Metal Collar & Flume Type Conc. Hdwl. at Inlet. (Details on Sheet 6)

629+06, Reqd: 36"x 66' Cross Culvert, Type "C" Hdwl. Lt. Ditches. (W-2').

600+67 to 602+72, Reqd: 210 Lin. Ft. Galv. Metal Flume & Berm Lt., Metal Collar & Flume Type Conc. Hdwl., at Inlet. (Details on Sheet 6)

607+90 to 609+35, Reqd: 156 Lin. Ft. Galv. Metal Flume & Berm Lt. (Details on Sheet 6)

609+50, Reqd: 36"x 62' Cross Culv.

Δ 12°24'R.
D 4°00'
R 1432.5'
T 155.6'
L 310.0'
HOR. S.D. >1300'

Δ 20°36'
D 4°00'
R 1432.5'
T 260.3'
L 515.0'
HOR. S.D. 420'

P.I. 604+45.6
P.C. 602+90
P.T. 606+00
P.C. 618+21.6
P.C. 619+75 (Orig.)
P.T. 623+36.6
P.T. 624+99 (Orig.)
P.I. 622+95.4
P.I. 38.3

600 DITCH S.50°46'E. 605 610 615 S.38°27'E. 620 625 630
Projected Line
Original Line
S 58° 58' E
627+70
Patented
Rio Blanco
Patented
Sec. 27
Sec. 34

TEST #101 A6
LL = 35.7
PI. = 16.8
-200 = 87.0%

TEST #103 A4
SIMILAR TO #97

TEST #104 A4
SIMILAR TO #105

TEST #105 A4
LL = 25.9
PI = 5.6
-200 = 62.2 %.

TEST #106 A4
SIMILAR TO #105

TEST #107 A4
SIMILAR TO #105

TEST #108 A4
SIMILAR TO #105

TEST #109 A4
LL. = 25.4
PI. = NON PL.
-200 = 63.0 %.

TEST #109A A4
LL. = 26.8
PI. = 6.5
-200 = 52.1 %
ROCK IN BOTTOM

TEST #110 A4
SIMILAR TO 109A

TEST #111 A4
SIMILAR TO 109A

TEST #112 A4
SIMILAR TO #109A
5' RT. OF ℄

TEST #113 A4
LL. = 23.4
PI. = NON PL
-200 = 32.6 %
ROCK IN BOTTOM
9' RT. OF ℄

TEST #114 A4
LL. = 34.8
PI. = 17.1
-200 = 76.7 %
48' RT. OF ℄

TEST #115 A4
SIMILAR TO #114
53' RT. OF ℄

TEST #117 A4
LL. = 32.4
PL = 11.2
-200 = 56.8 %
SHALE IN BOTTOM
53' RT. OF ℄

7120 7110 7100 7090 7080 7070 7060 7050

+1.50% 200' V.C. +4.00% 200' V.C. NPSD 1010' +3.20% 800' V.C. NPSD 375' -5.16%

63.20 65.33 68.70 64.70 84.70 88.50 87.0 P.I. 9.90 98.3 25.50 P.I. 38.3 29.94 17.70

#101 A6 #105, A4 #106, A4 #104 A4 #107 A6 #108 A4 #109, A4 #109A, A4 #110 A4 #111 A6 #112 A4 #113 A4 #114 A4 #115 A4 #117 A4

FL. 64.2 FL. 81.3 FL. 80.0 FL. 81.4 FL. 19.8 FL. 87.5

SNB. FACTOR 1.2 1.3 1.3 1.2 1.2 1.2 1.2
EMBANKMENT 3091 3639 6917 1298 1715 1150 5830
EMB. FACTOR 1.50 1.50 1.50 1.50 1.50 1.50 1.50
EXCAVATION 4636 5459 10376 1947 2573 1725 8745
STRUCT. EXCAV.
B.M. & CONC.
EMBANKMENT

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	23	

Government

Patented

N½ NW¼ SEC. 35

SEC. 27 SEC. 34

SEC. 35 SEC. 34

N

P.I. 631+70.4

Orig. P.I. 637+24.4

P.I. 661+50.9

630 635 640 645 650 655 660

Projected Line

Surveyed Line

S. 53° 58' E.

S.53°18'E.

Δ=5°40'R
D=3°00'
T=94.5'
L=188.9'
R=1910.0'
H.S.O V 1300'

P.C. 630+75.9

P.T. 632+64.8

Orig. P.C. 636+29.9

632+91. Req'd: 24"x46' Cross Culvert, Intercepting Hdwl. Lt. Dry Rubble Slope & Ditch Paving at Inlet.

636+00. Req'd: 24"x116' Cross Culvert, Type 'C' Hdwl. Lt., Inlet Ditch(W-1) Slope & Ditch Paving at Outlet. Dry Rubble.

EQUATION Sta. 638+11.7 Bk. = Orig P.T. 638+18.8 Ah.

638+50. Req'd: 24"x64' Cross Culvert, Type 'C' Hdwl. Lt., Inlet Ditch(W-1) Ditch Paving at Outlet. Dry Rubble Slope &

641+55. Req'd: 30"x162' Cross Culvert, Type 'C' Hdwl. Lt.

645+50. Req'd: 24"x48' Cross Culvert, Type 'C' Hdwl. Lt., Inlet Ditch(W-1)

650+75. Req'd: Road Appr. Rt. & Lt.

649+40. Req'd: 84"x70' Cross Culvert, Cattle pass. 2 Type "G" Hdwls., Ditches (W-4) Placing 6" earth in bottom of C.M.P. Cattle Pass. (Force Account)

653+47 to 655+75. Req'd: 230 Lin. Ft. Galv. Metal Flume & Berm Rt. Metal Collar & Flume Type Conc. Hdwl. at Inlet. (Details on Sheet No. 6.)

654+00. Req'd: 24"x96' Cross Culvert, Type 'C' Hdwl. Lt., Dry Rubble Slope & Ditch Paving at Outlet.

DITCH

P.C. 660+07.4

NE¼ NE¼ SEC. 34
T 34 N, R 1 W.

S½ NW¼ SEC. 35
T 34 N, R 1 W.

CLEARING & GRUBBING
635+00 to 661+00 - Light Oak Brush

7140 7130 7120 7110 7100 7090 7080 7070

300' V.C.

400' V.C.

800' V.C.
N.F.S.D. 525'

+2.06%

-2.2%

+1.94%

TEST #119 A4
SIMILAR TO #117
54' RT. OF ℄

TEST #120 A4
SIMILAR TO #117
40' RT. OF ℄

TEST #121 A4-6
LL. = 30.2
PI. = 5.7
-200 = 43.9 %
2.5'+ HARD SHALE
18' RT. OF ℄

TEST #122 A4
LL. = 31.4
PI. = 8.0
-200 = 95.2 %
15' RT OF ℄

TEST #123 A4
SIMILAR TO #122
12' RT OF ℄

TEST #124 A4
SIMILAR TO #122

TEST #125 A1-6
LL. = 33.7
PI. = 15.3
-200 = 86.2 %
ILS + FLOAT ROCK

TEST #126 A4-6
SIMILAR TO #125

TEST #127 A4
LL. = 30.2
PI. = 11.3
-200 = 73.6 %

TEST #128 A4
SIMILAR TO #127

TEST #129 A4
SIMILAR TO #127

TEST #130 A4
SIMILAR TO #127

TEST #131 A4
LL. = 33.7
PI. = 13.7
-200 = 77 %
4.8' + FLOAT ROCK

TEST #132 A4
SIMILAR TO #131

TEST #133 A4
SIMILAR TO #131

TEST #134 A6-7
LL. = 42.0
PI. = 16.8
-200 = 95.2 %

TEST #135 A4
LL. = 23.0
PI. = 5.4
-200 = 33.8 %

TEST #136 A4
SIMILAR TO #135

TEST #140 A6
LL. = 37.4
PI. = 17.1
-200 = 75.7 %

TEST #142 A4-6
LL. = 33.0
PI. = 11.8
-200 = 92.8 %

TEST #143 A6
SIMILAR TO #140

#119 A7 · #120 A4 · #121 A4-6 · #122 A4 · #123 A4 · #124 A4 · #125 A4-6 · #126 A4-6 · #127 A4 · #128 A4 · #129 A4 · #130 A4 · #131 A4 · #132 A4 · #133 A4 · #134 A6-7 · #135 A4 · #136 A4 · #140 A6 · #142 A4-6 · #143 A6

FL. 87.5 · FL. 10.3 · FL. 99.4 · FL. 37.0 · FL. 28.2 · FL. 13.6 · FL. 100.4 · FL. 23.0

P.I. 109.9 · 102.97 · 112.60 · 112.80 · 129.47 · 133.40 · 128.20 · 122.30 · 118.97 · 121.78 · P.I. 173.90 · 126.63

EMB. FACTOR
EMBANKMENT
CMB. FACTOR
EXCAVATION
BORROW
SOIL SOURCE

635 640 645 650 655 660

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	24	

Rev. 10-6-47 - W.H.M. - Forest Boundary Deleted.
Rev. 11-7-47 - J.O.R. - Truss Type

N.W. ¼, Sec. 35, T. 34 N., R. 1 W., N.M.P.M.

S.W. ¼, Sec. 35 T. 34 N., R. 1 W., N.M.P.M.

S.E. ¼, Sec. 35, T. 34 N., R. 1 W., N.M.P.M.

N

35

Rio Blanco

P.I. 661+36.9

660+68. Req'd. 24'-52' Cross Culv. Type C Hawl. Lt. Inlet Ditch (W.-I.) Grouted Rubble Slope & Ditch Paving at Outlet.

50' 60' 66' 66' 50'

Ditch

S. 47°34' E.

P.C. 660+68.2
Δ = 5°44' R
D = 2°00'
T = 143.5'
L = 286.7'
R = 2865.0'
HOR. S.D. > 1300'

P.T. 662+54.9 Ahd.
= 662+68.2 Ahd.

668+33.0 to 669+62.5, Reqd. Steel Truss Bridge. Details on sheets 7 & 8. (Quantities in Summary)

669+62.5 P.I. 6-1/2" Rad. Hor. Curve

676+00

669

680

P.I. 681+44.5

FINAL CONSTRUCTION LIMIT

Telephone Line

To Chromo

P.C. 679+50.0
Δ = 37°30' R
D = 10°00'
T = 194.5'
L = 375.0'
R = 573.0'

P.T. 683+25.0

STRUCTURE NOTES FOR BRIDGE
STA. 668+33 – STA. 669+62.5 STRUCTURE NO. P-19-L

PRESENT STRUCTURE:
SPAN –
CLEAR ROADWAY –
CLEAR WATERWAY –
TYPE SUPERSTRUCTURE –
TYPE SUBSTRUCTURE –
REQUIREMENTS AS TO REMOVAL –
STREAM DATA:
DRAINAGE AREA (IN SQ. MILES) –
VELOCITY DURING HIGH WATER –
ELEVATION OF:
HIGHWAY HIGH WATER –
NORMAL STAGE –
DRIFT – SOME
SCOUR – NONE

PROPOSED STRUCTURE:
POSITION REFERRED TO PRESENT STRUCTURE –
SPAN – 1 @ 125' –
CLEAR ROADWAY – 30'
CLEAR WATERWAY – 30'
TYPE OF SUPERSTRUCTURE – LOW STEEL TRUSS
TYPE OF SUBSTRUCTURE – CONCRETE
DETOUR STRUCTURE REQUIREMENTS – NONE
REVETMENT – CONCRETE MAT – RIP-RAP AS SHOWN
NEARBY STRUCTURES ON SAME STREAM:
LOCATION – 1 MI. DOWNSTREAM
WATERWAY – 240'
RECORD DURING FLOOD – 1000 SIMILAR
TEST P 150 AS
LL = 28 K
PLW = 0
ZONE = H.S.

EQUATION.

NEW ALIGNMENT

STREAM DATA:
LOW WATER – 7097
STREAM BED – 7092

TEST P 150 AS SIMILAR TO P 150

TEST P 144.6 AS SIMILAR TO P 150

TEST P 152 AS SIMILAR TO P 150

TEST P 151 AS SIMILAR TO P 150

TEST P 157 AS SIMILAR TO P 150

P.T. 675+00.0
E.O.P. 24+00.0 Ahd.
= 675+24.0 Ahd.

200' V.C.

600' V.C.
INV. SD 4455

7140
7130
7120
7110
7100
7090

CONSTRUCTION ENGINEER
PUBLIC WORKS DIRECTOR
CHAIRMAN COUNTY COMMISSIONERS

660'
663'
680'

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F-24-1(1)	4	

FINAL SUPERELEVATION DIAGRAM

FINAL CONSTRUCTION LIMIT

MATERIAL PAID	SOURCE	QUANTITIES CU. YDS. COMPACT	QUANTITIES CU. YDS. LOOSE	OVERHAUL
STATION TO STATION				STA. MILE

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
	COLO.	F-24-1(11)		

Rev 10-2-47 W.H.M. - Map

COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. F-24-1(11)
STATE HIGHWAY NO. 17
ARCHULETA COUNTY

FINAL CONSTRUCTION

INDEX OF SHEETS

Sheet 1	Sketch Map and Title Page	
2	Typical Section, Tabulation of Length & Typical Section for Channel and Ditch Change	
3	Summary of Quantities & Detail of Underdrain	
4	Tabulations of Surfacing, Ballast, Guard Posts, R.O.W. Markers, and Fencing Requirments	
5	List of Structures	
6	Details of Galvanized Metal Flume	
7-9	Details of Bridge Sta. 668+	
10	Standard Letters & Figures for Year & Structure Numbers	M 10 B
11	Standard Marker Posts	M 7 B
12	Standard Headwalls for C.M.P. Culverts	M 102 G
13	Standard Type "G" Headwalls for Large C.M.P. Culverts	M 102 G-LP
14	Standard Siphon Corr. Galv. Iron Pipe with Conc. Inlet & Outlet Boxes	M 123 B
15	Standard Timber Guard Posts	M 19 B
16	Standard Wire Fences (Treated Wooden Posts)	M 24 G
17	Standard Methods for Superelevation etc.	M 1 B
18	Typical Side Appr. Roads, Flaring, Cut Slope Treat., & Widening at Bridges	M 2 C
19	Standard Roadway Construction Traffic Signs	M 2 D
20	Contour Intercepting & Drainage Ditches	M 107 B
21-24	Alignment Plan & Profile	
25-63	Cross Sections	
64	Summary of Earthwork Quantities & Tabulation of Intercepting Ditches	

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 GRADE OF FINISHED ROAD

GROSS LENGTH OF PROJECT } 10,093.7 LIN. FT. = 1.912 MILES
NET LENGTH OF PROJECT }

9980.0 = 1.890
93.55

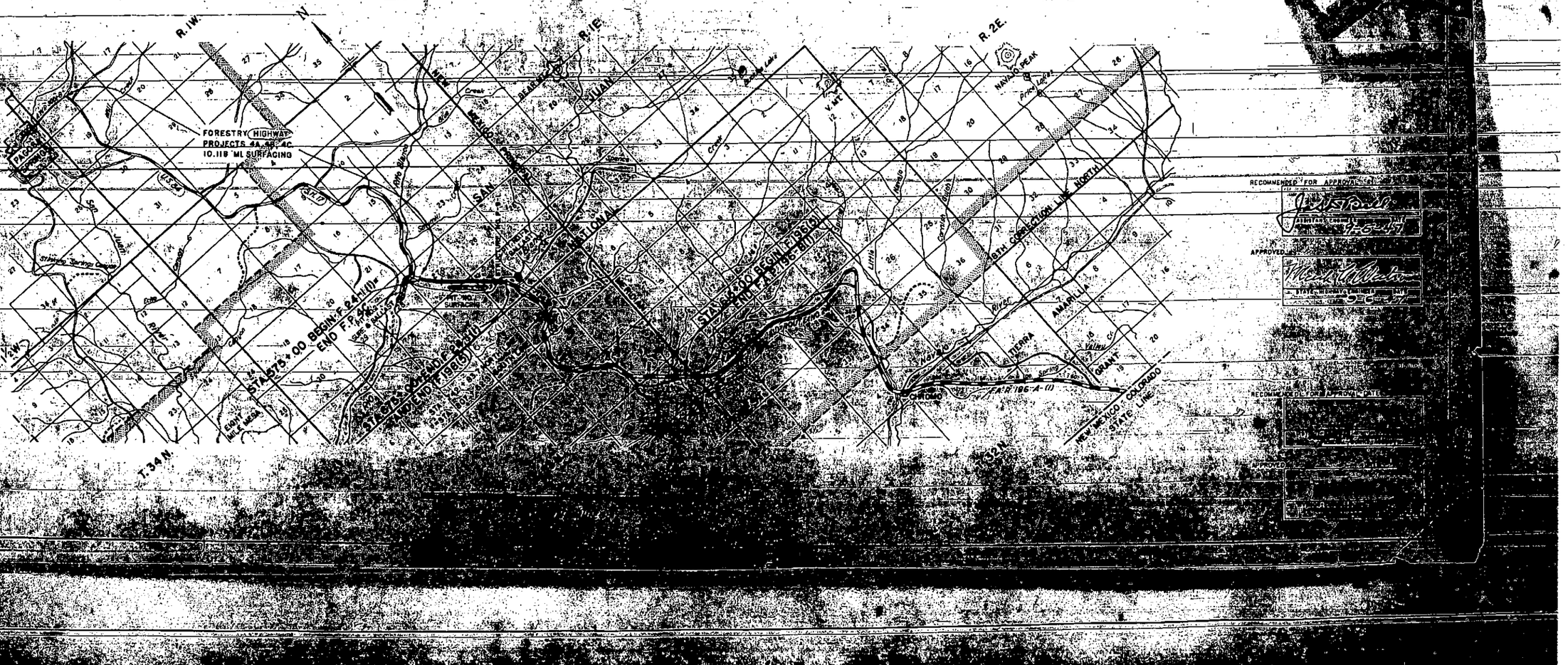
CONVENTIONAL SIGNS

- CENTER LINE OF SURVEY — 610 —
- RIGHT OF WAY LINES
- SECONDARY ROADS
- TOWNSHIP AND RANGE LINES
- SECTION LINES
- QUARTER SECTION LINES
- BARBED WIRE FENCE
- COMBINATION WIRE FENCE
- TELEPH. & TELEG. LINE

NOTE:

It is recommended that bidders on this project go over the plan details with the following-field representative of this Department.

J. E. Casey, Division Engineer, Durango, Colorado.



FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	21	

NW¼ NW¼ SEC. 27
T 34 N, R. I W.

SW¼ NW¼ SEC. 27

SE¼ NW¼ SEC. 27

Note:
Alignment and Grades shown on the plans 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 the plans are encountered during construction, necessary modifications of the grading plan shown on the plans will be made to secure dense stable embankment.

Tabulations of Fencing, R.O.W. Markers, Guard Posts, Surfacing and Ballast are shown on Sheet No. 4

Typical Section for Channel and Ditch Changes is shown on Sheet No. 2.

Details of Metal Flume is shown on Sheet No. 6.

To Paonia Springs

P.C. 567+50.6

Road

72°00' L.
150.00
477.5
346.9
600.0

P.T. 571+50.6

School

Spring

Cultivated

Ditches (W=1')

575+80 to 579+00, Reqd: 6"ø Perforated C.M.P. Underdrain Lt.

580+00, Reqd: 24" x 46" Cross Culvert, Intercepting Ditches (W=1')

580+00 to 586+00, Reqd: 6"ø Perforated C.M.P. Underdrain Lt.

581+55, Reqd: 18"ø26' Side Drain & Road Approach Lt.

588+50, Reqd: 24"ø32' C.M.P. Siphon (H=7.6 Lt. & 7.0 Rt.) Ditches (W=1'), Stand Inlet & Outlet Boxes, 2-24" Trash Guards, 1-4" Valve & Valve Box, & 160' of 4" Galv. Drain Pipe.

589+70, Reqd: 18"ø28' Side Drain & Road Approach, Lt.

591+04, Reqd: 84"x94" Cross Culvert, 2 Type 6 Flowlis, Channel change Lt. (W=12'). Excavation Material to be used to fill old channel.

597+25, Reqd: Road Approach Lt.

597+50, Reqd: 24"ø54' Cross Culv. Inlet Ditch (W=1')

598+50, Reqd: Road Appr. Rt.

Bearing Equation = S.50°49'E. Bk. = S.50°46'E. Ahd.

8" Galv. Drain Pipe

Ditch

Cultivated

595

590

600

573+00, Reqd: Appr. to Project and Project Marker.

576+50, Reqd: 18"ø26' Side Drain and Road Approach, Lt.

581+00, Reqd: [illegible] Road Approach, Rt.

To Chama

Pinance

Rte.

SEC. 27
SEC. 28

SE¼ NE¼ SEC. 28
T34 N, R I W.

SW¼ NW¼ SEC. 27

NW¼ SW¼ SEC. 27

NE¼ SW¼ SEC. 27

FL. 580

FL. 529

160'

H=7.6

H=7.0

440'

SIPHON STA. 588+50

STA. 575+00
BEGIN F.24-1(1)
END P. 46

400 V.C.

600 V.C.
NPSD. 710

TEST PIT 46
L.C. = 365'
P.I. = 1'
200' = 75.1'

TEST PIT 45
L.C. = 365'
P.I. = 2 INCH
200' = 0.1'
ROCK

TEST PIT 44
SIMILAR TO 45'

TEST PIT 43
SIMILAR TO 45'

TEST PIT 42
L.C. = 0.0
P.I. = 0.0
200' = 0.0'

TEST PIT 41
L.C. = 41.8
P.I. = 1.7
200' = 98.8'

TEST PIT 40
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 39
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 38
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 37
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 36
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 35
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 34
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 33
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 32
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 31
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 30
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 29
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 28
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 27
L.C. = 25.8
P.I. = 7.8
200' = 115.7'
ROCK

TEST PIT 26
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 25
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 24
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 23
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 22
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 21
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 20
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 19
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 18
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 17
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 16
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 15
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 14
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 13
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 12
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 11
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 10
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 9
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 8
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 7
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 6
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 5
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 4
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 3
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 2
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

TEST PIT 1
L.C. = 41.8
P.I. = 6.8
200' = 66.4'

7040
7030
7020
7010
7000
6990
6980
6970
6960

Pit. 70.40
Pit. 69.40
Pit. 68.40
Pit. 67.40
Pit. 66.40
Pit. 65.40

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FR4-1(11)-	22	

NE¼ SW¼ SEC. 27
T 34 N, R 1 W.

SE¼ SE¼ SEC. 27

SE¼ SW¼ SEC. 27

SW¼ SE¼ SEC. 27
T 34 N, R 1 W.

604+35, Reqd: 48"x84' Cross Culvert, Type "C" Hawl. Lt. Ditches, (W-2)

605+00 to 607+61, Reqd: 277 Lin. Ft. Galv. Metal Flume & Berm Lt. (Details on Sheet 6)

607+73, Reqd: 30"x54" Side Drain, Approx. 8 36'x30' Side Drain in Irrig. Lateral Lt.

609+65 to 611+70, Reqd: 224 Lin. Ft. Galv. Metal Flume & Berm Rt., Metal Collar & Flume Type Conc. Howl.-el Inlet (Details on Sheet 6)

610+50, Reqt: Road Approach Lt.

611+22, Reqd: 36"x62' Cross Culvert, Type "C" Hawl. Lt. Ditches, (W-2)

600+67 to 602+72, Reqd: 210 Lin. Ft. Galv. Metal Flume & Berm Lt., Metal Collar & Flume Type Conc. Howl.-el Inlet. (Details on Sheet 6)

607+90 to 609+35, Reqd: 156 Lin. Ft. Galv. Metal Flume & Berm Lt. (Details on Sheet 6)

609+50, Reqd: 36"x62' Cross Culv.

616+88, Reqd: Road Approach Rt. & Lt.

617+50, Reqd: 30"x64' Cross Culvert Type "C" Howl. Lt.

623+78, Reqd: 24"x66' Cross Culv. Type "C" Howl. Lt. & Dry Rubble Slope & Ditch Paving at Outlet

627+93 to 630+37, Reqd: 252 Lin. Ft. Galv. Metal Flume & Berm Rt., Metal Collar & Flume Type Conc. Howl.-el Inlet. (Details on Sheet 6)

629+80, Reqd: 36"x168' Cross Culvert, Type "C" Howl. Lt. Ditches, (W-2)

Δ 12°24' R
D 4°00'
R 1432.6'
T 158.6'
L 310.0'
HOR. S.O. > 1300'

Δ 20°36'
D 4°00'
R 1432.5'
T 260.3'
L 515.0'
HOR. S.O. 420'

S. 50°46' E.

S. 38°22' E.

S. 58°58' E.

P.I. 604+45.6
P.C. 602+90
P.T. 606+00
P.C. 618+21.6
P.C. 619+79 (Orig)
P.T. 623+36.6
P.C. 624+90 (Orig)
P.I. 620+80.9
P.I. 622+85.4
P.I. 38.3

Projected Line
Original Line

Sec. 27
Sec. 34

Patented

DITCH

CLEARING & GRUBBING
619+00 to 635+00 - Light Oak Brush

NOTE
Transition Vg 0.25 Grade Rates

NOTE
Det. Grade Rise with Plating
from 372.62 to 390

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	FR4-1(8)	24	

Rev. 10-6-47 - W.H.M. - Forest Boundary Deleted.
Rev. 11-7-47 - J.O.R. - Truss Type

N.W. ¼, Sec. 35, T. 34 N., R. 1 W., N.M.P.M.

S.W. ¼, Sec. 35 T. 34 N., R. 1 W., N.M.P.M.

S.E. ¼, Sec. 35, T. 34 N., R. 1 W., N.M.P.M.

N

35

To Reg'd. 24'+52' Cross Culv. Type C
Hdwl. Ll. Inlet Ditch (14'-1') Grouted Rubble
Slope & Ditch Paving at Outlet

1660+68

P.I. 661+82.9

Rio Blanco

S 47°34' E

Ditch

Telephone Line

P.I. 681+44.5

FINAL CONSTRUCTION LIMIT

TO CHROMO

PC 660+82.9
32.1

PT 662+68.8
= 662+82.9
42.8

Δ = 5°44' R
D = 2°00'
T = 143.5'
L = 286.7'
R = 2865.0'
HOR. S.D. > 1300'

668+33.0 to 669+62.5, Reqd Steel Truss Bridge. Details on Sheets 7, 8 & 9. (Quantities in Summary)

PC 678+00

Δ = 37°30' R
D = 10°00'
T = 194.5'
L = 375.0'
R = 573.0'

PT 683+25.0

STRUCTURE NOTES FOR BRIDGE OVER RIVER
STA. 668+33 – STA. 669+62.5 STRUCTURE NO. P-19-L

PRESENT STRUCTURE:
SPAN –
CLEAR ROADWAY –
CLEAR WATERWAY –
TYPE SUPERSTRUCTURE –
TYPE SUBSTRUCTURE –
REMARKS AS TO REMOVAL –

PROPOSED STRUCTURE:
POSITION REFERRED TO PRESENT STRUCTURE
SPAN – 1 @ 125'-
CLEAR ROADWAY – 30'-
CLEAR WATERWAY – TRUE
TYPE OF SUPERSTRUCTURE – LOW STEEL TRUSS
TYPE OF SUBSTRUCTURE – CONCRETE
DETOUR STRUCTURE OR DEPARTMENT'S ROAD
NEW ALIGNMENT – PARALLEL AT – FEET TO BRIDGE SITE OR BELOW

NEARBY STRUCTURES ON SAME STREAM:
LOCATION – UNDETERMINED AT P.I. 681+44.5
WATERWAY – 3000 S.F.
RECORD FLOOD PERIOD – 100 YEARS
TEST PIT NO.
CL. SACK
PL. =
LIQ. =

EQUATION

STREAM DATA:
DRAINAGE AREA IN SQ. MILES –
VELOCITY DURING HIGH WATER –
ELEVATION OF:
MAXIMUM HIGH WATER – 7102
NORMAL STAGE –
DRIFT – NONE
SCOUR – NONE
LOW WATER – 7092
STREAM BED – 7082

TEST PIT NO. 1 SIMILAR TO P&O
TEST PIT NO. 2 SIMILAR TO P&O
TEST PIT NO. 3 SIMILAR TO P&O
TEST PIT NO. 4 SIMILAR TO P&O

NEW ALIGNMENT

200' VC

600' VC
NASD 455'

END BRIDGE 669+62.5

STA 675+00
END 684+00

Excavation
Excavation
Piles
Piles
Excavation
Riprap
Concrete
Concrete
Steel
Steel
Bridge
Bridge
Steel

7140
7130
7120
7110
7100
7090

660
665
670

FED. ROAD DIST. NO.	STATE	F.A. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	F 24-1(1)	23	

Government

Patented

N½ NW¼ SEC. 35

SEC. 27

SEC. 34

SEC. 35

P.I. 631+70.4

P.I. 637+24.4

P.I. 661+50.9

Projected Line

Surveyed Line

DITCH

S. 56° 58' E.

S. 53° 18' E.

630

635

640

645

650

655

660

Δ=5°40' R
D=3°00'
T=94.5'
L=188.9'
R=1910.0
H.S.D.=1300'

P.C. 630+17.6

P.T. 632+64.8

632+50, Reqd: 24"x48" Cross Culvert, Type Dry Culvert, Intercepting Hdwl. (L) Rubble Slope & Ditch, Paving at Inlet.

635+13, Reqd: 24"x48" Cross Culvert, Type "C" Hdwl. (L) Inlet Ditch (W-1) Slope & Ditch, Paving at Outlet. Dry Rubble

Orig. P.C. 636+29.9

Sta. 638+ Bk.
Ahd.

Orig. P.T. 638+
21.0

EQUATION
638+35=Reqd: 24"x64' Cross Culvert, Type "C" Hdwl. (L) Inlet Ditch (W-1) Ditch Paving at Outlet.

Dry Rubble Slope &

641+35, Reqd: 30"x62' Cross Culvert, Type "C" Hdwl. (L) Inlet Ditch (W-1)

645+50, Reqd: 24"x48" Cross Culvert, Type "C" Hdwl. (L) Inlet Ditch (W-1)

650+75, Reqd: Road Addn. Rt. 8.4'

653+47 to 655+75, Reqd: 230 Lin. Ft. Galv. Metal Flume & Berm Rt. Metal Collar & Flume Type Conc. Hdwl. at Inlet. (Details on Sheet No. 6.)

654+00, Reqd: 24"x96' Cross Culvert, Type "C" Hdwl. (L) Dry Rubble Slope & Ditch Paving at Outlet.

649+38, Reqd: 84"x70' Cross Culvert, Cattle Pass, 2 Type "G" Hdwls. Ditches (W-4) Placing 6' Earth in bottom of C.M.P. Cattle Pass (Force Account)

FINAL CO

P.C. 660+07.4

NE¼ NE¼ SEC. 34
T 34 N, R 1 W.

SE¼ NW¼ SEC. 35
T 34 N, R 1 W.

CLEARING & GRUBBING
635+00 to 661+00 - Light Oak Brush

7140

7130

7120

7110

7100

7090

7080

7070

300' V.C.

400' V.C.

22.50

21.28

19.07

26.53

P.I. 2+17

Elev. 7141.7

635

660