FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	18	

Rev. 3-26-38 Gd. Fence to Gd. Posts.
Rev. 4-11-38 Sta. 689+ to 691+ Move bldgs. No. Fed. Aid.

NOTE:

All Pole Lines encroaching on construction are to be moved by owners.

R.O.W. Markers, Fencing Requirements and Gates are tabulated on sheet No. 4

Guard Fence and Guard Posts are tabulated on Sheet No. 4.

Guard Posts shall be placed 50' center to center unless otherwise specified.

Sta. 672+00-676+00 ~ Road Appr. Lt. (This material to come from excess excavation Sta. 673+ - 675+ and is included in Cross Section Quantities for payment)

S.W. 1/4 SEC. 34 T. 44 N. R. 11 W. N.M.P.M.

Sta. 672+00-674+00 ~ Req'd. 8 Timber Guard Posts Lt.
" 676+75-679+25 ~ " 6 " " " Lt.

Sta. 685+25-690+50 ~ Req'd. 11 Timber Guard Posts Lt. (WITHOUT FED. AID)

Sta. 689+85 ~ Req'd. Move Coal shed off R.O.W. (Contract Item) & Restore (FORCE ACCOUNT)

Sta. 690+00-691+00 ~ Req'd. 3 Timber Guard Posts Lt.

Sta. 690+40 -692+77.0 ~ Req'd. 5 Timber Guard Posts Rt.

Sta. 693+04 -696+07.0 ~ Req'd. 10 Timber Gd. Posts Rt.

(WITHOUT FED. AID) Rev. as Const. 8-12-39. A.J.T.

Sta. 694+10 ~ Req'd. Move shed off R.O.W. (Contract Item) & Restore (FORCE ACCOUNT) #3

Sta. 693+03.5-698+07.0 ~ Req'd. 14 Timber Guard Posts Lt.

Sta. 695+45 ~ Req'd. 36"x72' C.M.P. Cross Culv. & Uncl. Excav. Ditches.

(WITHOUT FED. AID) Sta. 690+25 ~ Req'd. Move House off R.O.W. (Contract Item) & Restore (FORCE ACCOUNT) #2

Sta. 678+ ~ Req'd. Remove & Rebuild part of Stockyards (FORCE ACCOUNT) (Work by R.R. Co. Forces)

Sta. 676+50 ~ Drain ditch Lt.

Sta. 684+25-692+ ~ Req'd. Road Appr. Lt. (Included in Cross Section Quantities)

Sta. 681+40-685+50 ~ Req'd. 80 Cu. Yds. Uncl. Excav. Intercepting Ditch Rt.

Sta. 691+ ~ Req'd. Move Ice House off R.O.W. (Contract Item) & Restore (FORCE ACCOUNT) (WITHOUT FED. AID)

Sta. 691+75-693+75 ~ Req'd. 500 Cu. Yds. Uncl. Excav. Diversion Chan. Rt. (Material to be used for Dykes)

Sta. 691+36 ~ 18"x30' Side drain Rt.

Sta. 693+03.5 696+07.0 ~ Req'd. 10 Timber Guard Posts Rt.

Sta. 679+00 ~ Req'd. 48"x50' C.M.P. Side drain & 48"x20' C.M.P. Cross Culv. under R.R.

Sta. 679+12 ~ 48"x50' C.M.P. Cross Culvert & Channel improvement. & Remove 2 Structures.

CLEARING & GRUBBING
Sta. 672-675 - 50% Oak Brush
Sta. 685-687 - 50% Scrub Oak
Sta. 690-702 - 60% Scrub Oak & Buck Brush

Sta. 680+00 ~ Road appr. to stockyards

Sta. 687+50 ~ Req'd. 24"x54' C.M.P. Cross Culv. & 24"x26' C.M.P. Cross Culv. with Special Intercepting Headwall. (Details on Sheet No. 4) & 1 Cu. Yd. Uncl. Excav. Inlet & Outlet ditches

(WITHOUT FED. AID) Sta. 689+ ~ Req'd. Move House Gas pump & tank off R.O.W. (Contract Item) & Restore (FORCE ACCOUNT)

Sta. 692+74-692+93 ~ Req'd. 1 Span @ 19' Tr. Timber Pile Bridge. (DETAILS ON SHEET NO. 5)
8825 Cu. Yds. Uncl. Excav. Channel Impr.
534 " " used as borrow.

Sta. 675+00 ~ Req'd. 24"x84' C.M.P. Cross Culv. & 1 Cu. Yds. Uncl. Excav. Ditches & Remove 20"x16' W.B.C.

S.E. 1/4 SEC. 34 T. 44 N. R. 11 W. N.M.P.M.

N.W. 1/4 SEC. 34 T. 44 N. R. 11 W. N.M.P.M.

STA. 672+00 END A.W. PROJ. NO. 2010
BEGIN FED. AID PROJ. NO. 103 B

EQUATION

STRUCTURE NOTES FOR BRIDGE STA. 692+80 TO 693+00.5 STRUCTURE NO. L-4-I

PRESENT STRUCTURE:

PROPOSED STRUCTURE:
Position referred to present structure - New Alignment
Span - 1 @ 19'
Clear Roadway - 25'
Clear Waterway - 170 Sq. Ft.
Type of Superstructure - Treat. Timber - Asphalt Plank wear. surf.
Type of Substructure - Pile (Timber) treated.
Detour Structure requirements - None
R.R. Siding - Placerville Haul to Bridge Site - 1/4 mi.

STREAM DATA:
Drainage Area in Sq. Miles - 2
Velocity during high water -
Elevation of:
Maximum high water - Low water - Dry
Normal Stage - Stream bed -
Drift -
Scour -

Nearby Structures on same stream:
Location -
Waterway -
Record during floods -

Preliminary Data.

EXCAV.	350	11291	2019	1683	25658		
SWB + SWB. FACTOR	350	37	8 2019	1683			
CORROW		85%			91%		
STA. YD. O.H.							
O.MI. O.H.							
CORR. SOURCE							

Excess to be used in Rd. appr. Sta. 673+-675+

600' V.C. 400' V.C. 800' V.C. 500' V.C.

-4.529% -4.529% +3.505% -3.90% +3.50% -0.247%

F.L. 76.4 F.L. 80.0 F.L. 64.2 F.L. 76.2

P.I. 74.76 P.I. 99.30 P.I. 75.90 P.I. 91.63

Revised Grade

Sand & Gravel

Bar Driven

Grade equation

670 675 680 685 690 695 696

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	19	

Rev. 3-26-38 h.b.m. Gd. Fence to Gd. Posts

N.W. 1/4 SEC. 34
T. 44 N. R. 11 W.
N.M.P.M.

Sta. 700+50 ~ 48"x74' C.M.P. Cross Culvert.

Sta. 698+28 Rd. Appr. Lt. & 15"x36' C.M.P. Side Drain Lt.

Sta. 697+42 ~ Rd. Appr. Rt.

Sta. 702+45 ~ Reqd. 24"x88' C.M.P. Cross Culv.

✓ Sta. 698+635-716+170 ~ Reqd. 42 Timber Guard Posts Lt.

Sta. 701+25-702+60 ~ Rd. Appr. Lt.

Sta. 698+40 ~ Reqd. Lower 1 1/4" Pipe Line below Channel Impr. (Force Account)

Filling Station

1 1/4" Water Line

Toilet

Garage & Junkhouse

House

Sheds

695+60.0 Bk.
695+52.5 Ah.

EQUATION

✓ Sta. 698+ ~ Reqd. Remove 8x12' plank bridge.

Sta. 698+64-698+82.5 ~ 1 Span @ 19' Tr. Timber Pile Bridge (Details on Sheet No. 6) & 842 Cu. Yds. Uncl. Excav. for Channel Change.

Sta. 711+50-716+35 ~ 146 Cu. Yds. Uncl. Excav. Intercepting Ditch Rt.

✓ Sta. 697+76-698+37 ~ Reqd. 5 Timber Guard Posts Rt.

Sta. 699+40-708+90 Reqd. 7 Timber Guard Posts Rt.

N. 70° 21' W.

SAN MIGUEL RIVER

N.E. 1/4 SEC. 33
T. 44 N. R. 11 W.
N.M.P.M.

✓ Sta. 712+30 ~ Remove 12"x12" W.B.C.

Sta. 716+435-717+045 ~ 6 Timber Guard Posts Lt.

EQUA. P.T. 710+70.7 Bk. = 710+68.1 Ah.

P.C. 704+32.4

Δ 63° 50' L
D 10° 00'
T 356.9'
L 638.3'
R 573.0'

S. 45° 49' W.

PRESENT ROAD

P.I. 715+39.5

N. 56° 59' W.

✓ Sta. 703+10 ~ Reqd. Remove 18"x12" W.B.C.

P.I. 707+89.3

✓ Sta. 707+05 ~ Reqd. 30"x42' C.M.P. Cross Culv. Cu. Yds. Uncl. Excav. & Remove 24" C.M.P. & W.B.C.

Sta. 715+56-716+17 ~ Reqd. 11 Timber Guard Posts Rt. & Lt.

P.C. 711+58.3

Δ 77° 12' R
D 12° 00'
T 381.2'
L 643.3'
R 477.5'

P.T. 718+01.6

Sta. 716+20-716+40.5 ~ Reqd. 1 Span @ 19' Tr. Timber Pile Bridge (Details on Sheet No. 7) & 631 Cu. Yds. Uncl. Excav. Channel Impr.

Sta. 717+50 ~ Rd. Appr. Rt. & Remove 15" C.M.P.

N

Sta. 718+00-721+00 ~ Reqd. 8 Timber Guard Posts Lt.

Sta. 716+65-721+80 ~ Intercepting ditch Rt.

Sta. 717+68 ~ 15"x32' C.M.P. Side drain & Rd. Appr. Rt.

P.C. 718+93.0

Δ 24° 48' L
D 5° 00'
T 252.0'
L 496.0'
R 1146.0'

P.I. 721+45.0

Sta. 721+10 ~ Reqd. 36"x54' C.M.P. Cross Culv. & 5 Cu. Yds. Uncl. Excav. Ditches.

Sta. 723+50-731+25 ~ 296 Cu. Yds. Uncl. Exc. for Intercepting ditch Rt.

Sta. 724+16 ~ Rd. Appr. Lt.

P.T. 723+89.0

Sta. 724+60 ~ 48"x48' C.M.P. Cross Culv.

38.91 Cu. Yds. Uncl. Excav. Inlet & Remove 24" C.M.P.

Sta. 725+00 ~ Rd. Appr. Lt.

Sta. 725+78 Rd. Appr. Lt.

N. 81° 47' W.

Building

House

Gas Pipe Line

725+14.5 Bk.
724+92.1 Ah.

EQUATION

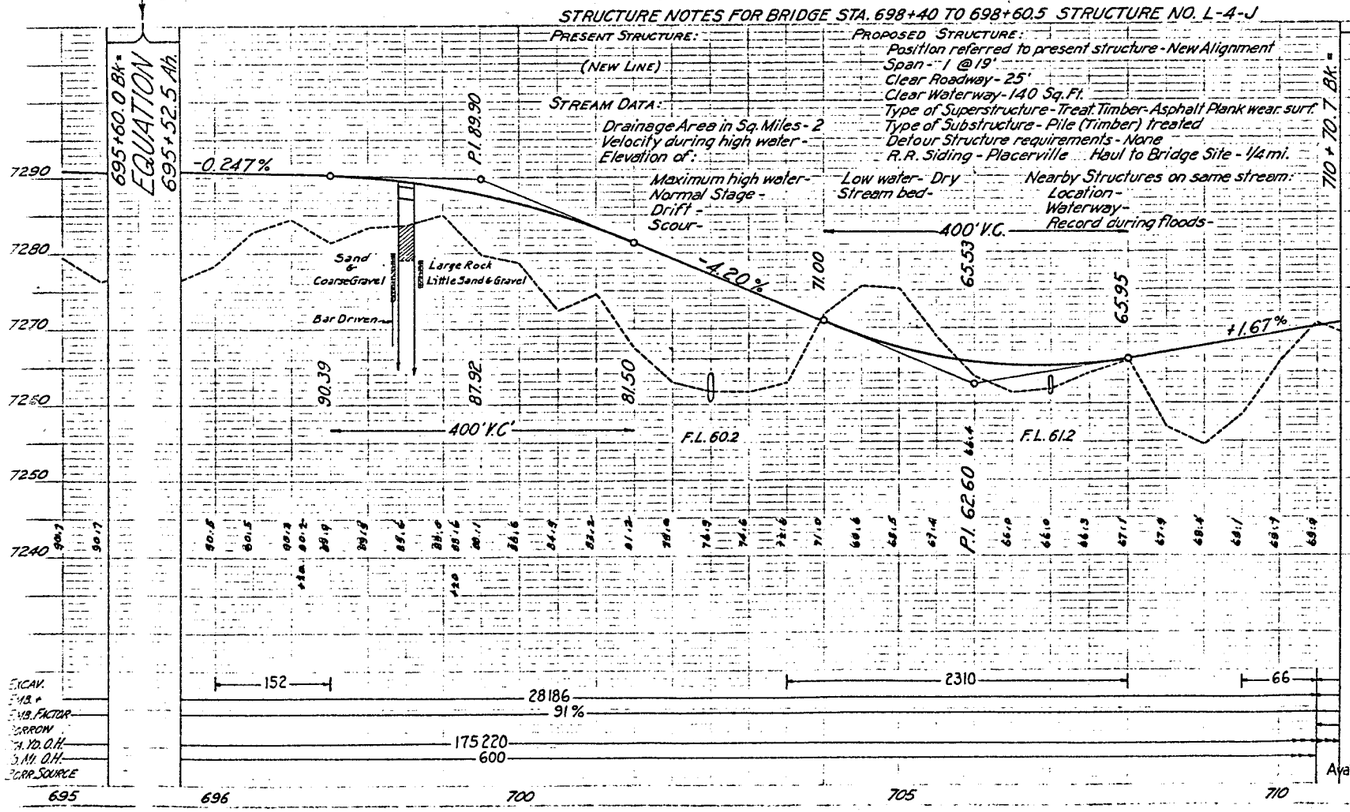
Clearing & Grubbing
Sta. 702-704 ~ 10% Cottonwoods Lt.
704-713 ~ 75% Pinon, Juniper, Scrub oak & Brush.
716-730 ~ 75% Pinon, Juniper, Scrub oak & Brush.

STRUCTURE NOTES FOR BRIDGE STA. 698+40 TO 698+60.5 STRUCTURE NO. L-4-J

Present Structure: (New Line)

Proposed Structure:
Position referred to present structure - New Alignment
Span - 1 @ 19'
Clear Roadway - 25'
Clear Waterway - 140 Sq. Ft.
Type of Superstructure - Treat. Timber - Asphalt Plank wear. surf.
Type of Substructure - Pile (Timber) Treated
Detour Structure requirements - None
R.R. Siding - Placerville Haul to Bridge Site - 1/4 mi.

Stream Data:
Drainage Area in Sq. Miles - 2
Velocity during high water -
Elevation of:
Maximum high water - Low water - Dry
Normal Stage - Stream bed -
Drift -
Scour -
Nearby Structures on same stream:
Location -
Waterway -
Record during floods -

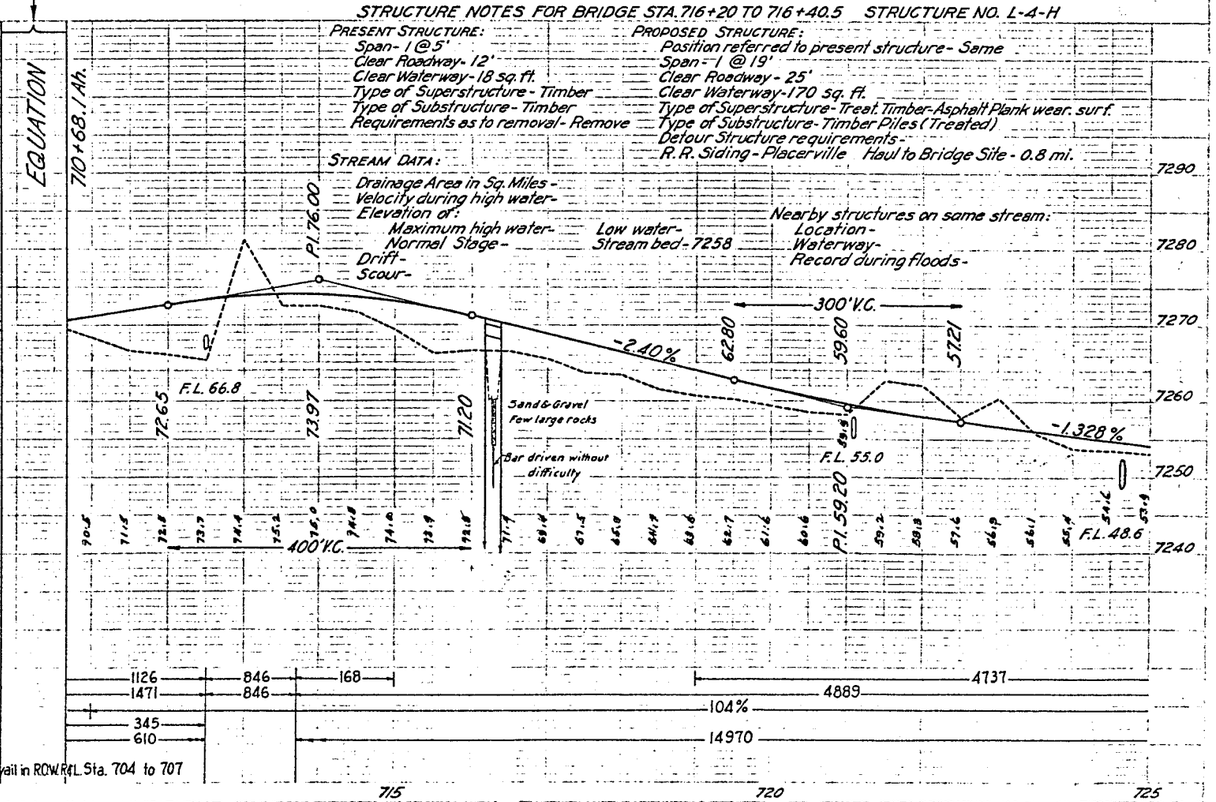


STRUCTURE NOTES FOR BRIDGE STA. 716+20 TO 716+40.5 STRUCTURE NO. L-4-H

Present Structure:
Span - 1 @ 5'
Clear Roadway - 12'
Clear Waterway - 18 sq. ft.
Type of Superstructure - Timber
Type of Substructure - Timber
Requirements as to removal - Remove

Proposed Structure:
Position referred to present structure - Same
Span - 1 @ 19'
Clear Roadway - 25'
Clear Waterway - 170 sq. ft.
Type of Superstructure - Treat. Timber - Asphalt Plank wear. surf.
Type of Substructure - Timber Piles (Treated)
Detour Structure requirements -
R.R. Siding - Placerville Haul to Bridge Site - 0.8 mi.

Stream Data:
Drainage Area in Sq. Miles -
Velocity during high water -
Elevation of:
Maximum high water - Low water -
Normal Stage - Stream bed - 7258
Drift -
Scour -
Nearby structures on same stream:
Location -
Waterway -
Record during floods -



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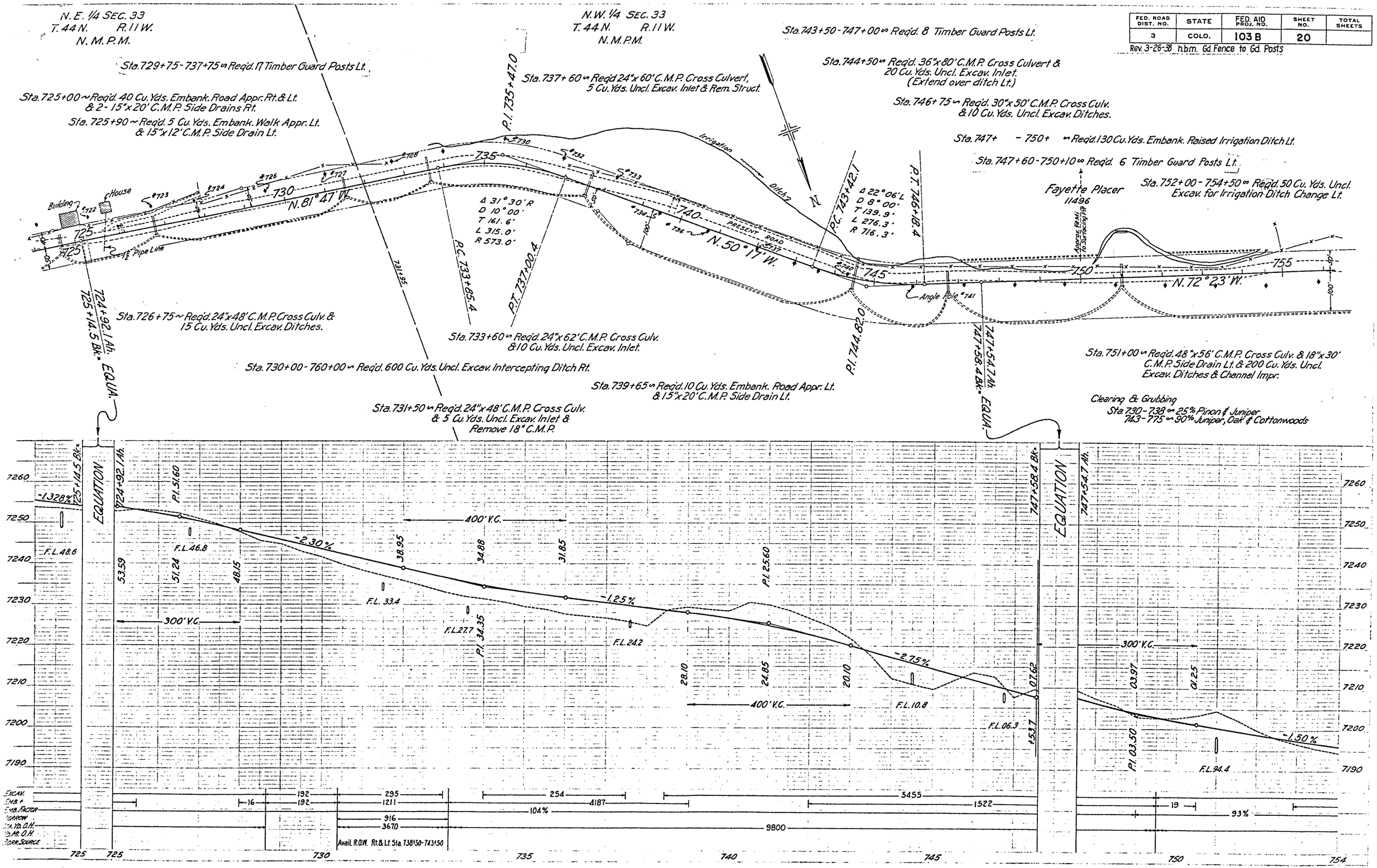
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	20	

Rev. 3-26-38 h.b.m. Gd Fence to Gd. Posts



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	21	

Rev. 3-26-38 h.b.m. Gd. Fence to Gd. Posts.

N.W. 1/4 SEC. 33
T. 44 N. R. 11 W.
N.M.P.M.

N.E. 1/4 SEC. 32
T. 44 N. R. 11 W.
N.M.P.M.

Sta. 758+25 - 767+75 "Req'd. 20 Timber Guard Posts Lt.

Sta. 757+00 "Req'd. 30"x 50' C.M.P. Cross Culv., 30 Cu. Yds. Uncl. Excav. Ditches & Remove 24"x 24" W.B.C.

Sta. 757+70 "Req'd. 20 Cu. Yds. Embank. Rd. Appr. Lt. & 15"x 22' C.M.P. Side Drain Lt.

Sta. 773+25 - 778+25 "Req'd. 11 Timber Guard Posts Lt.

Sta. 773+50 "Req'd. 24"x 52' C.M.P. Cross Culv. & 5 Cu. Yds. Uncl. Excav. Ditches.

Sta. 780+37.5 - 794+46.6 "Req'd. 29 Timber Guard Posts Lt.

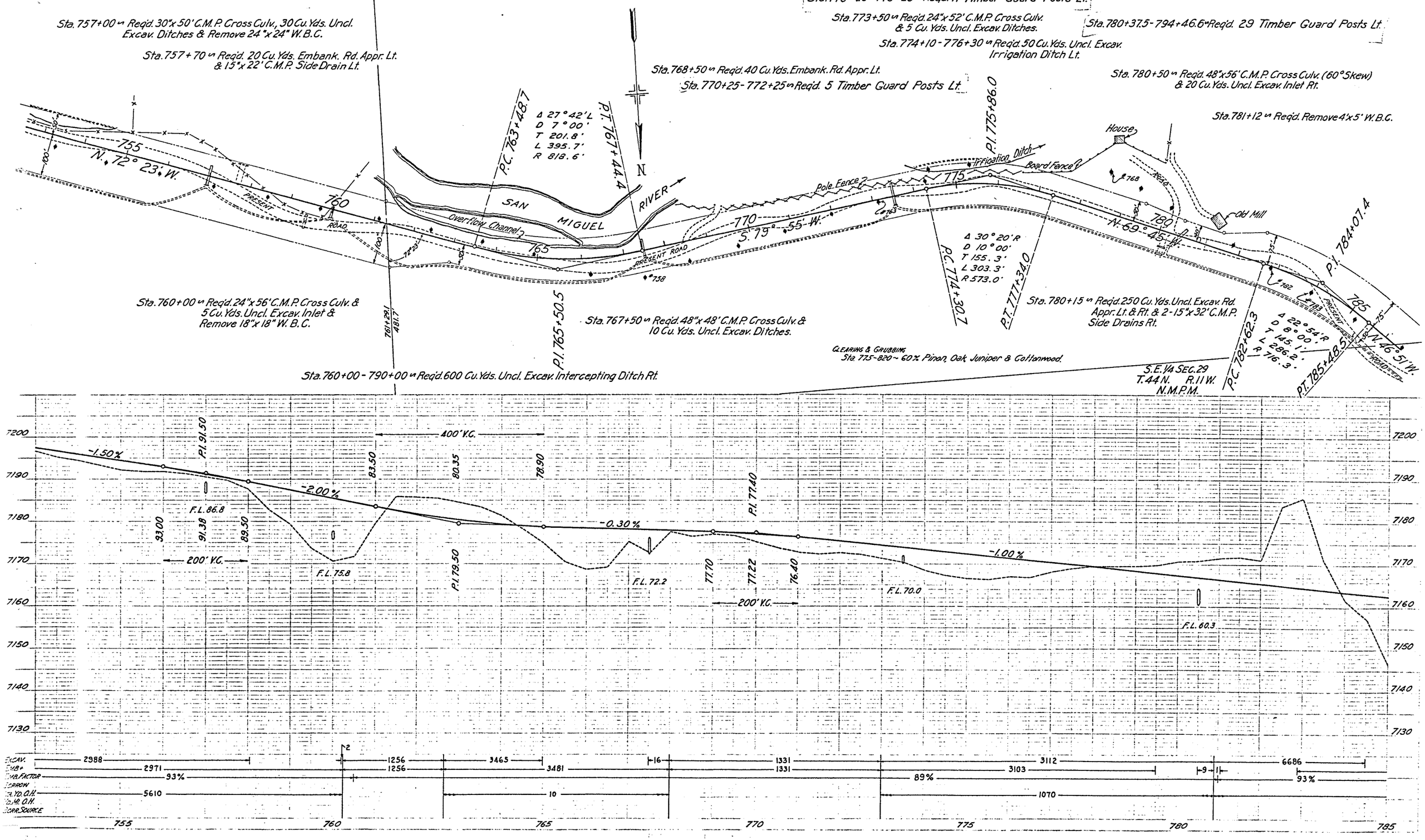
Sta. 774+10 - 776+30 "Req'd. 50 Cu. Yds. Uncl. Excav. Irrigation Ditch Lt.

Sta. 768+50 "Req'd. 40 Cu. Yds. Embank. Rd. Appr. Lt.

Sta. 770+25 - 772+25 "Req'd. 5 Timber Guard Posts Lt.

Sta. 780+50 "Req'd. 48"x 56' C.M.P. Cross Culv. (60° Skew) & 20 Cu. Yds. Uncl. Excav. Inlet Rt.

Sta. 781+12 "Req'd. Remove 4'x 5' W.B.C.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	22	

Rev. 3-26-38 h.b.m. Gd. Fence to Gd. Posts.

N.E. 1/4 SEC. 32
T. 44 N. R. 11 W.
N.M.P.M.

S.W. 1/4 SEC. 29
T. 44 N. R. 11 W.
N.M.P.M.

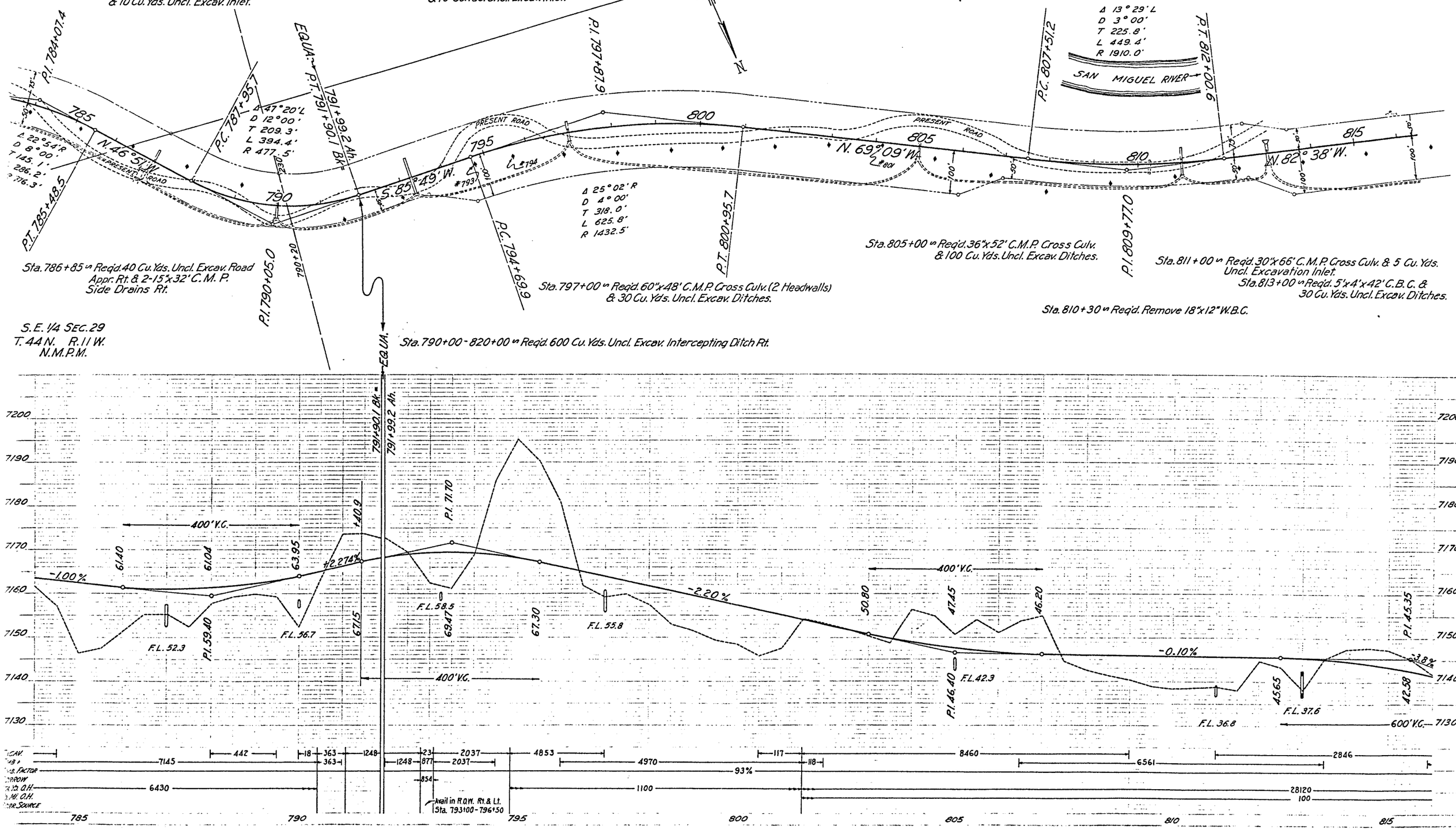
Sta. 790+00 to Req'd. 24"x66' C.M.P. Cross Culv. & 5 Cu. Yds. Uncl. Excav. Inlet.

Sta. 796+25-803+25 to Req'd. 15 Timber Guard Posts Lt.

Sta. 787+00 to Req'd. 60"x56' C.M.P. Cross Culv. & 10 Cu. Yds. Uncl. Excav. Inlet.

Sta. 793+25 to Req'd. 24"x88' C.M.P. Cross Culv. & 10 Cu. Yds. Uncl. Excav. Inlet.

Sta. 807+50-813+50 to Req'd. 13 Timber Guard Posts Lt.



S.E. 1/4 SEC. 29
T. 44 N. R. 11 W.
N.M.P.M.

Sta. 786+85 to Req'd. 40 Cu. Yds. Uncl. Excav. Road Appr. Rt. & 2-15"x32' C.M.P. Side Drains Rt.

Sta. 797+00 to Req'd. 60"x48' C.M.P. Cross Culv. (2 Headwalls) & 30 Cu. Yds. Uncl. Excav. Ditches.

Sta. 805+00 to Req'd. 36"x52' C.M.P. Cross Culv. & 100 Cu. Yds. Uncl. Excav. Ditches.

Sta. 811+00 to Req'd. 30"x66' C.M.P. Cross Culv. & 5 Cu. Yds. Uncl. Excavation Inlet.

Sta. 813+00 to Req'd. 5'x4'x42' C.B.C. & 30 Cu. Yds. Uncl. Excav. Ditches.

Sta. 810+30 to Req'd. Remove 18"x12" W.B.C.

Sta. 790+00-820+00 to Req'd. 600 Cu. Yds. Uncl. Excav. Intercepting Ditch Rt.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	23	

Rev. 3-26-38 h.b.m. Gd. Fence to Gd. Posts.
Rev. 4-11-38 h.b.m. Sta. 829+ Move bldgs. No. Fed. Aid.

S.W. 1/4 SEC. 29
T.44N. R.11W.
N.M.P.M.

S.E. 1/4 SEC. 30
T.44N. R.11W.
N.M.P.M.

Sta. 825+50-829+00 "Req'd. 8 Timber Guard Posts Lt.

Sta. 828+75 "Req'd. 36"x52' C.M.P. Cross Culv. & 100 Cu. Yds. Uncl. Excav. Inlet & Chan. Impr.

Sta. 816+50 — 824+50 "Req'd. 17 Timber Guard Posts Lt.

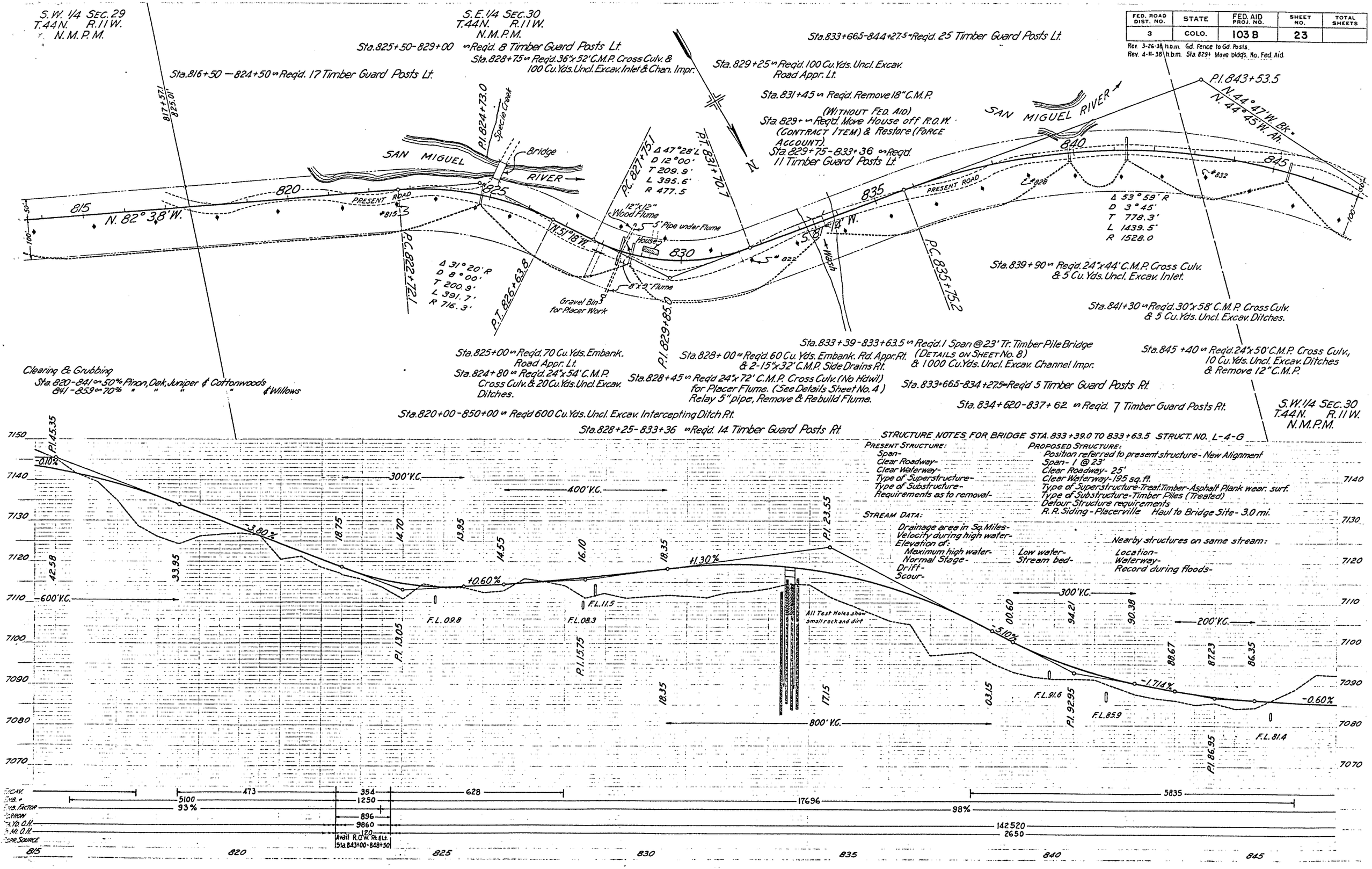
Sta. 833+66.5-844+27.5 "Req'd. 25 Timber Guard Posts Lt.

Sta. 829+25 "Req'd. 100 Cu. Yds. Uncl. Excav. Road Appr. Lt.

Sta. 831+45 "Req'd. Remove 18" C.M.P. (WITHOUT FED. AID)

Sta. 829+ "Req'd. Move House off R.O.W. (CONTRACT ITEM) & Restore (FORCE ACCOUNT).

Sta. 829+75-833+36 "Req'd. 11 Timber Guard Posts Lt.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	24	

Rev 3-26-38 h.b.m. Gd. Fence to Gd. Posts

S.W. 1/4 SEC. 30
T. 44 N. R. 11 W.
N.M.P.M.

Sta. 852+00 - 854+50 ∿ Req'd. 6 Timber Guard Posts Lt.

Sta. 849+00 ∿ Req'd. 24" x 56' C.M.P. Cross Culv.
& 5 Cu. Yds. Uncl. Excav. Inlet.

Sta. 851+50 ∿ Req'd. 30" x 78' C.M.P. Cross Culv.
& 5 Cu. Yds. Uncl. Excav. Inlet.

Sta. 857+00 - 859+00 ∿ Req'd. 5 Timber Guard Posts Lt.

Sta. 862+15 ∿ Req'd. 60" x 48' C.M.P. Cross Culv.
& 140 Cu. Yds. Uncl. Excav. Ditches.

Sta. 864+25 - 877+17.5 ∿ Req'd. 27 Timber Guard Posts Lt.

Sta. 868+ ∿ Req'd. Remove 50' Cribbing Lt.

Sta. 868+18 ∿ Req'd. Remove 18" x 18" W.B.C.

N.E. 1/4 SEC. 25
T. 44 N. R. 12 W.
N.M.P.M.

R. 12 W.
R. 11 W.
N.M.P.M.

Δ 27° 01' L
D 4° 00'
T 344.1'
L 675.4'
R 1432.5'

P.T. 860+31.9

P.C. 853+56.5

P.I. 864+43.1

Δ 34° 23' L
D 10° 00'
T 177.3'
L 343.8'
R 573.0'

P.C. 868+75.7

P.T. 872+19.5

874+60
433.0

P.I. 875+13.0

N. 44° 47' W. Bk.
N. 44° 45' W. Ah.

845 850 855 860 865 870 875

N. 44° 45' W.

N. 71° 46' W.

N. 33° 40' W.

N. 68° 03' W.

N. 32° 41' W.

SAN MIGUEL RIVER

PRESENT ROAD

Cribbing

Δ 53° 59' R
D 3° 45'
T 778.3'
L 1439.5'
R 1528.0'

Δ 38° 06' R
D 8° 00'
T 247.3'
L 476.2'
R 716.2'

Δ 35° 22' R
D 10° 00'
T 182.7'
L 353.7'
R 573.0

P.C. 861+95.8

P.T. 866+72.0 Bk.
866+64.5 Ah.

P.I. 870+53.0

P.C. 873+30.3

P.T. 876+84.0

Sta. 859+00 ∿ Req'd. 24" x 58' C.M.P. Cross Culv.
& 10 Cu. Yds. Uncl. Excav. Ditches.

Sta. 855+10 ∿ Req'd. Remove 15" C.M.P.

Sta. 850+00 - 880+00 ∿ Req'd. 600 Cu. Yds. Uncl. Excav. Intercepting Ditch Rt.

Sta. 869+15 ∿ Req'd. Remove
50' Cribbing Lt.

Sta. 870+50 ∿ Req'd. 1 Timber Guard Post Rt.
Sta. 870+50 ∿ Req'd. 36" x 42' C.M.P. Cross Culv.
& 10 Cu. Yds. Uncl. Excav. Inlet.

Sta. 871+50 ∿ Req'd. 24" x 44' C.M.P. Cross Culv.
& 10 Cu. Yds. Uncl. Excav. Inlet.
Sta. 871+50 ∿ Req'd. 1 Timber Guard Post Rt.

CLEARING & GRUBBING
Sta. 859 - 863 - 70% Scrub Oak
Sta. 863 - 866 - 70% Cottonwoods
Sta. 866 - 874 - 40% Pinion & Juniper
Sta. 874 - 940 - 70% Willows, Cottonwoods & Pinons

N. W. 1/4 SEC. 30
T. 44 N. R. 11 W.
N.M.P.M.

P.T. 850+14.7 Bk.
850+33.6 Ah.
EQUATION

EQUA. P.T. 866+72.0 Bk.
866+64.5 Ah.

850+14.7 Bk.
850+33.6 Ah.
EQUATION

866+72.0 Bk.
EQUATION
866+64.5 Ah.

7110 7100 7090 7080 7070 7060 7050 7040

-0.60%

84.55 84.00 84.77

400' V.C.

+118.9

F.L. 79.5

F.L. 76.2

P.I. 83.35

+0.712%

P.I. 91.40

F.L. 85.2

F.L. 78.4

-5.274%

72.55

89.27 86.91 75.58

600' V.C.

+107.5

64.59 61.80

400' V.C.

-0.10%

P.I. 62.00

F.L. 57.3 F.L. 57.6

CAV.
B.
B. FACTOR
ROW
1/2 O.H.
1/1 O.H.
SOURCE

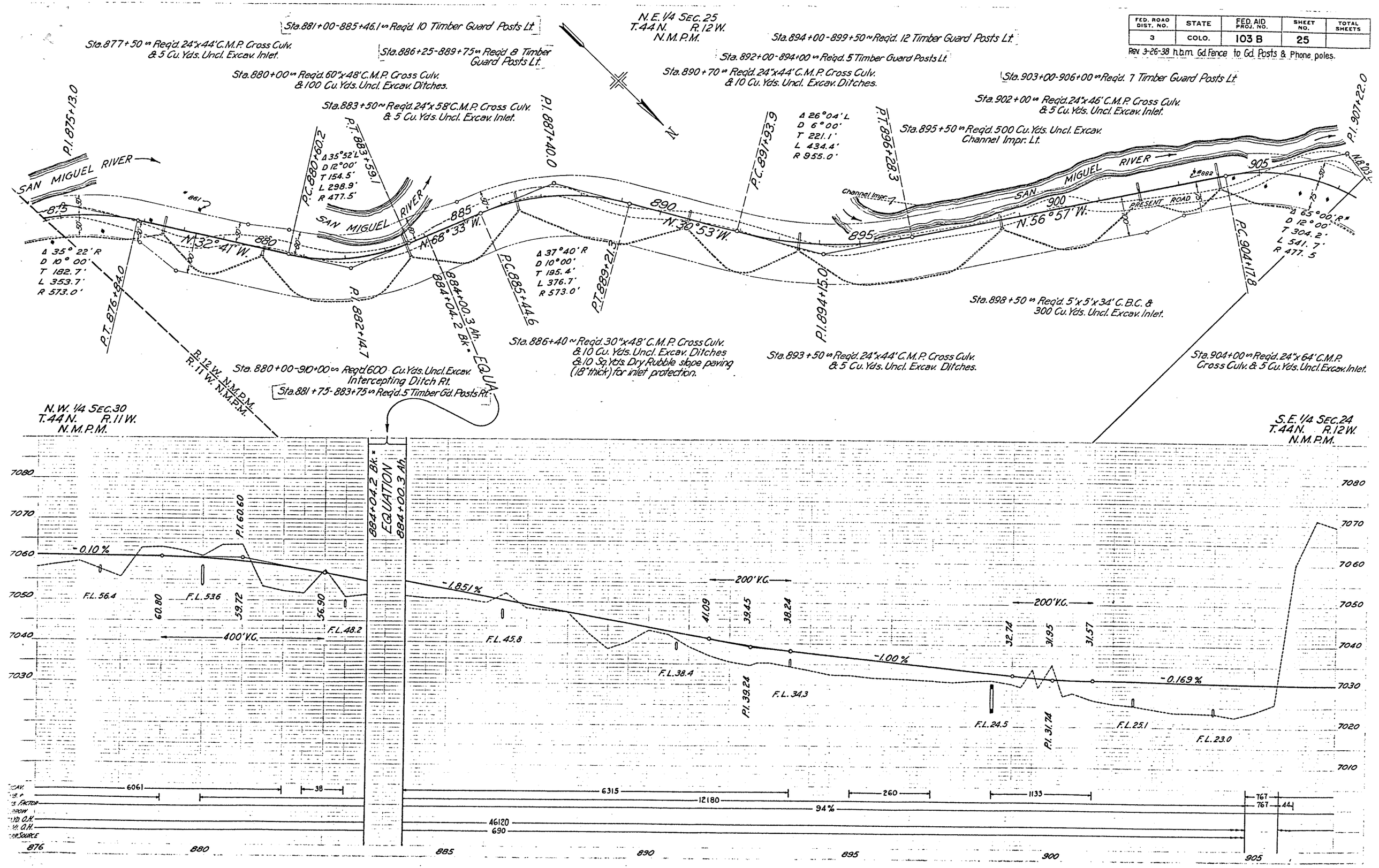
5275 826 18279 98%

945 1618 94%

846 850 855 860 865 870 875

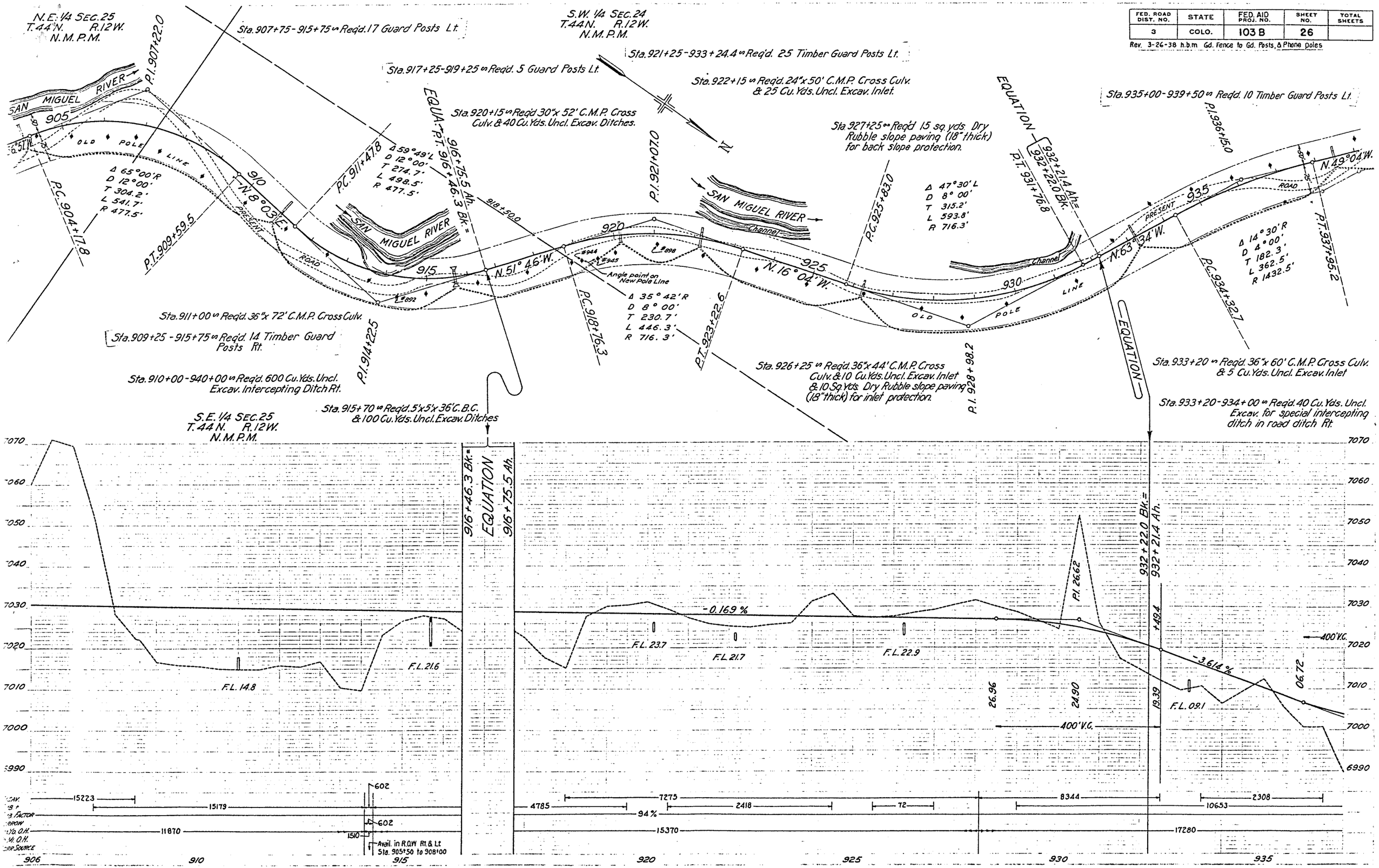
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	25	

Rev 3-26-38 h.b.m. Gd. Fence to Gd. Posts & Phone poles.



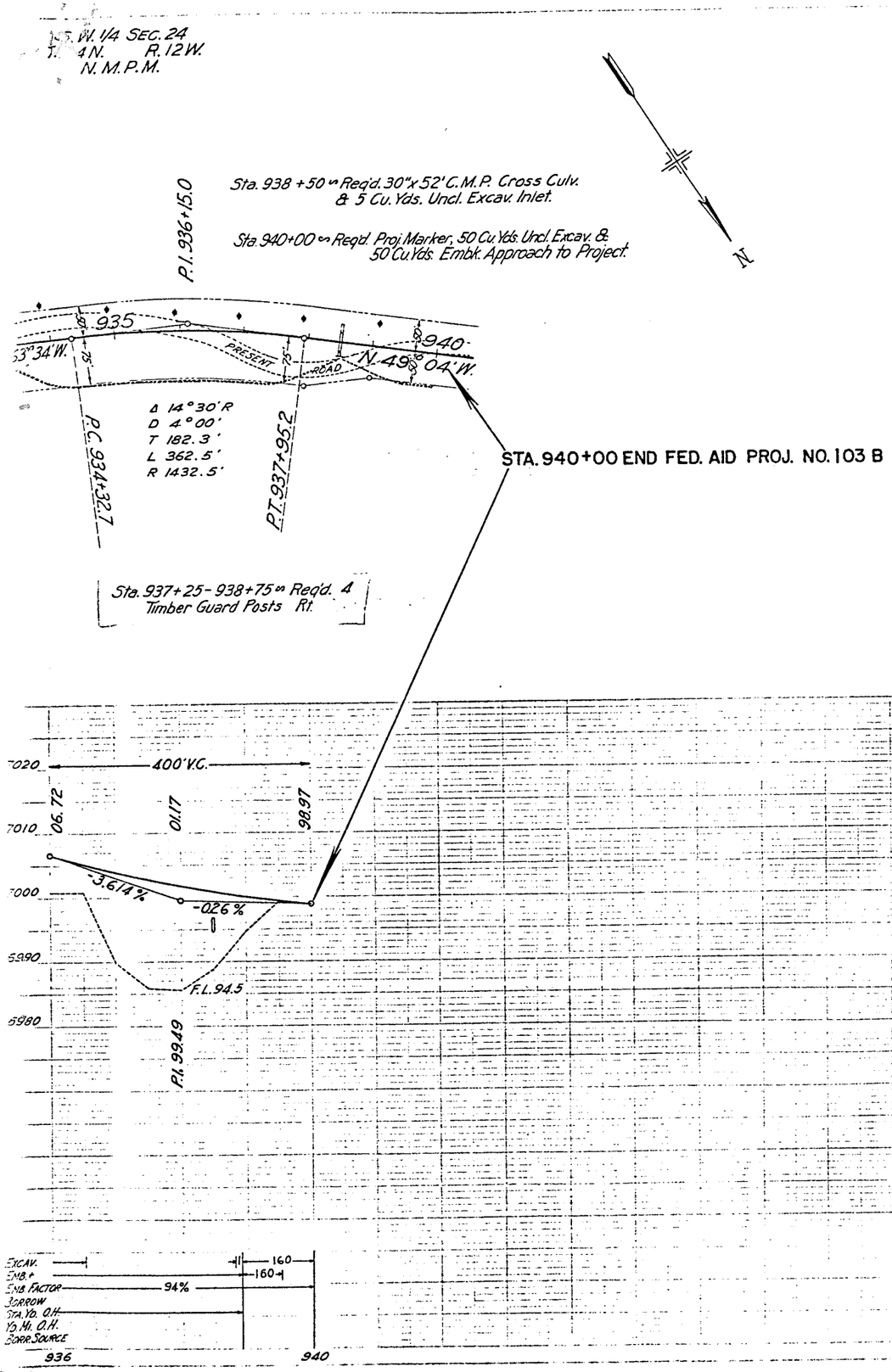
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	26	

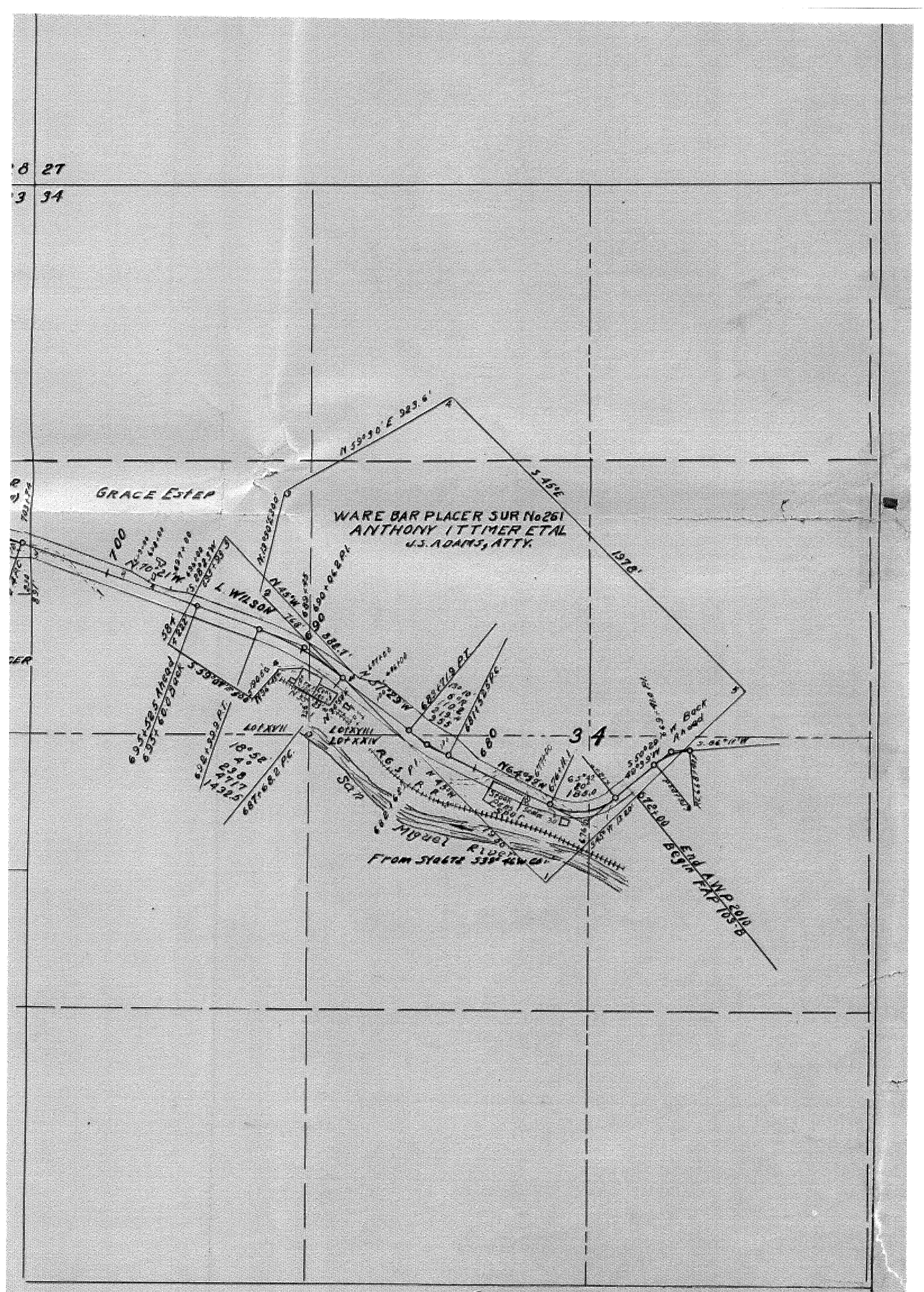
Rev. 3-26-38 h.b.m Gd. Fence to Gd. Posts, & Phone poles



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	103 B	27	

Rev. 3-26-38 h.b.m Gd. Fence to Gd. Posts, & Phone poles





STATE HIGHWAY DEPARTMENT
RIGHT OF WAY MAP F. A. P. 103-B
SAN MIGUEL COUNTY, COLORADO
SHEET 1. SCALE 1" = 400'

Fed. Road Dist. No.	State	Fed. Aid Proj. No.
3	Colo.	103-B

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

FINAL CONSTRUCTION [illegible]

F.A.P. 103-B

SUMMARY FINAL QUANTITIES

Item No.	Description	Unit	Roadway: Grading	Roadway: 19' Bridge Sta. 692	Roadway: 19' Bridge Sta. 698+	Roadway: 19' Bridge Sta. 716+	Total Roadway	23' Bridge Sta. 833+	Project Total	Total Estimated Quantity	Appr'd W.O.	Over-run	Underrun	Unit Cost	Amount Over-run	Amount Underrun	Total Project Cost	Misc.
10a	Clearing & Grubbing Proj.	L.S.	•						•	•		•	•	$3,000.00	•	•	$3,000.00	
11a	Removal of Bridge 716+	L.S.	•						•	•		•	•	25.00	•	•	25.00	
11b	Removal of 20 Structures	L.S.	19		1		20		20	20		•	•	200.00	•	•	200.00	
11c	Move Bld's. off R.O.W. 689-691	L.S.	• (Without Fed. Aid)						•	•		•	•	400.00	•	•	400.00	
11d	Move Shed off R.O.W. 694+	L.S.	• (Without Fed. Aid)						•	•		•	•	25.00	•	•	25.00	
11e	Rem. & Reset Flume & Pipe 828	L.S.	•						•	•		•	•	50.00	•	•	50.00	
11f	Move House off R.O.W. 829+	L.S.	• (Without Fed. Aid)						•	•		•	•	50.00			50.00	
11g	Removal of Timber Cribbing	Lin.Ft.	100				100		100	100		•	•	.10	•	•	10.00	
12a	Removing Fence	Lin.Ft.	5210				5210		5210	5500			290	.02		$5.80	104.20	
13c	Unclassified Excava.	Cu.Yd.	230,551	*825	*842	*631	232,849	*1722	234,571	217,000	7,219	17,571		.38	$6,676.98		89,138.98	W.O. 3143
14a	Dry Rock Excav. (Struct.)	"	10.8				10.8		10.8	830			819.2	2.00		1,638.40	21.60	
14b	Dry Comm. Excav. (Struct.)	"	2168.3	111.7	102.0	78.9	2460.8	125.2	2586.1	1310		1276.1		1.00	1276.10		2,586.10	
14c	Wet Rock Exc. (Struct.)	"	0				0		0	100			100	2.25		225.00	0	
14d	Wet Comm. Exc. (Struct.)	"	46.2				46.2		46.2	100			53.8	1.25		67.25	57.75	
18a	Station Yard Overhaul	Sta.Yd.	703,350.5				703350.5		703350.5	540,000	119,885	163,350.5		.02	3267.01		14,067.01	W.O. 3143-3149
18b	Yard Mile Overhaul	Yd.Mi.	8,441.04				8,441.04		8,441.04	4,600	432	3,841.04		.20	768.21		1,688.21	W.O. 3143
26a	Gravel or Cr. Rock Surfacing	Ton	14,011.44				14,011.44		14,011.44	14,200			188.56	.70		131.99	9,808.01	
26c	Overhaul of Surfacing	Ton Mi.	9,787.94				9,787.94		9,787.94	11,000			1212.06	.07		84.84	685.16	
42a	Untreated Br. Timber	M.b.m.		0.696	0.712	0.696	2.104	0.744	2.848	3.00			0.152	100.00		15.20	284.80	
42b	Treated Br. Timber	M.b.m.		13.837	13.607	13.853	41.297	15.252	56.549	56.5		.049		125.00	6.13		7,068.63	
43	Asphalt Plank Wearing Surf.	Sq.Ft.		475	475	475	1425	575	2000	2000		•	•	.50	•	•	1,000.00	
46a	Class "A" Concrete	Cu.Yd.	163.26				163.26		163.26	169			5.74	20.00		114.80	3,265.20	
46b	Class "B" Concrete	"	119.10				119.10		119.10	120			0.9	20.00		18.00	2,382.00	
47	Reinforcing Steel	Lb.	11,534				11,534		11,534	11,600			66	.07		4.62	807.38	
48	Structural Steel	Lb.		1655	[illegible]	1655	4,965	1655	6620	6,800			180	.08		14.40	529.60	
53a	15" Corr. Metal Culv't Pipe	Lin.Ft.	124				124		124	400			276	1.10		303.60	136.40	
53b	18" Corr. Metal Culv't Pipe	"	30				30		30	30		•	•	1.35	•	•	40.50	
53c	24" Corr. Metal Culv't Pipe	"	1434				1434		1434	1412		22		2.25	49.50		3,226.50	
53d	30" Corr. Metal Culv't Pipe	"	496				496		496	496		•	•	2.75			1,364.00	
53e	36" Corr. Metal Culv't Pipe	"	532				532		532	528		4		4.50	18.00		2,394.00	
53g	48" Corr. Metal Culv't Pipe	"	400				400		400	350	50	50		7.50	375.00		3,000.00	W.O. 3415
53i	60" Corr. Metal Culv't Pipe	"	200				200		200	200		•	•	12.00	•	•	2,400.00	
60a	Treated Timber Piling	"		687	619	788	2094	749	2843	2960			117	1.30		152.10	3,695.90	
60e	Metal Pile Shoes	Ea.		26	28	28	82	28	110	110		•	•	2.50			275.00	
65	Dry Rubble Slope Paving 18"	Sq.Yd.	65				65		65	35		30		2.00	60.00		130.00	
74x	Timber Guard Posts	Ea.	516				516		516	516		•	•	2.00			1,032.00	
76e	Comb. Wire Fence Untr. Wood Posts	Lin.Ft.	6473				6473		6473	6500			27	.15		4.05	970.95	
76h	Driveway Gates	Ea.	11				11		11	6			5	15.00	75.00		165.00	
76i	Walk Gates	Ea.	1				1		1	1		•	•	10.00	•	•	10.00	
81a	Project Markers	Ea.	1				1		1	1		•	•	25.00			25.00	
81b	R.O.W. Markers	Ea.	62				62		62	62		•	•	5.00	•	•	310.00	
89b	Drain Pipes (Timbr. Floor)	Ea.		2	2	2	6	2	8	8		•	•	4.00			32.00	
60f	Treated Timber Piling Cutoff	Lin.Ft.		17	29	28	74	43	117	0		117		0.756	88.45		88.45	
	Force Account Items Receiving Federal Aid																	
	[illegible] Pipe Sta. 698+ (Force Account Bill No. 4)								*49.82	*50.00						0.18	49.82	W.O. 3423
	Obliterate Old Road (Force Account Bill No. 5)								599.22	600.00						0.78	599.22	W.O. 3423
	Force Account Items Not Receiving Federal Aid																	
	~~Remove & Rebuild Stockyards (By R.R. Co. Forces)~~								993.26	1500.00						506.74	993.26	W.O. 3139
	Restore House off R.O.W. Sta. 829+ (Force Account Bill No. 1)								193.85	200.00						6.15	193.85	W.O. 3424
	Restore Buildings off R.O.W. Sta. 689+ to 691+ (Force Account No. 2)								1190.33	1200.00						9.67	1190.33	W.O. 3424
	Restore Shed off R.O.W. Sta. 694+ (Force Account Bill No. 3)								33.22	35.00						1.78	33.22	W.O. 3424
	Note: Force Account Bills include Comp. Ins., Social Security & Old Age Pension deductions.																	
	Project Totals														12,660.38	3385.35	159,608.03	

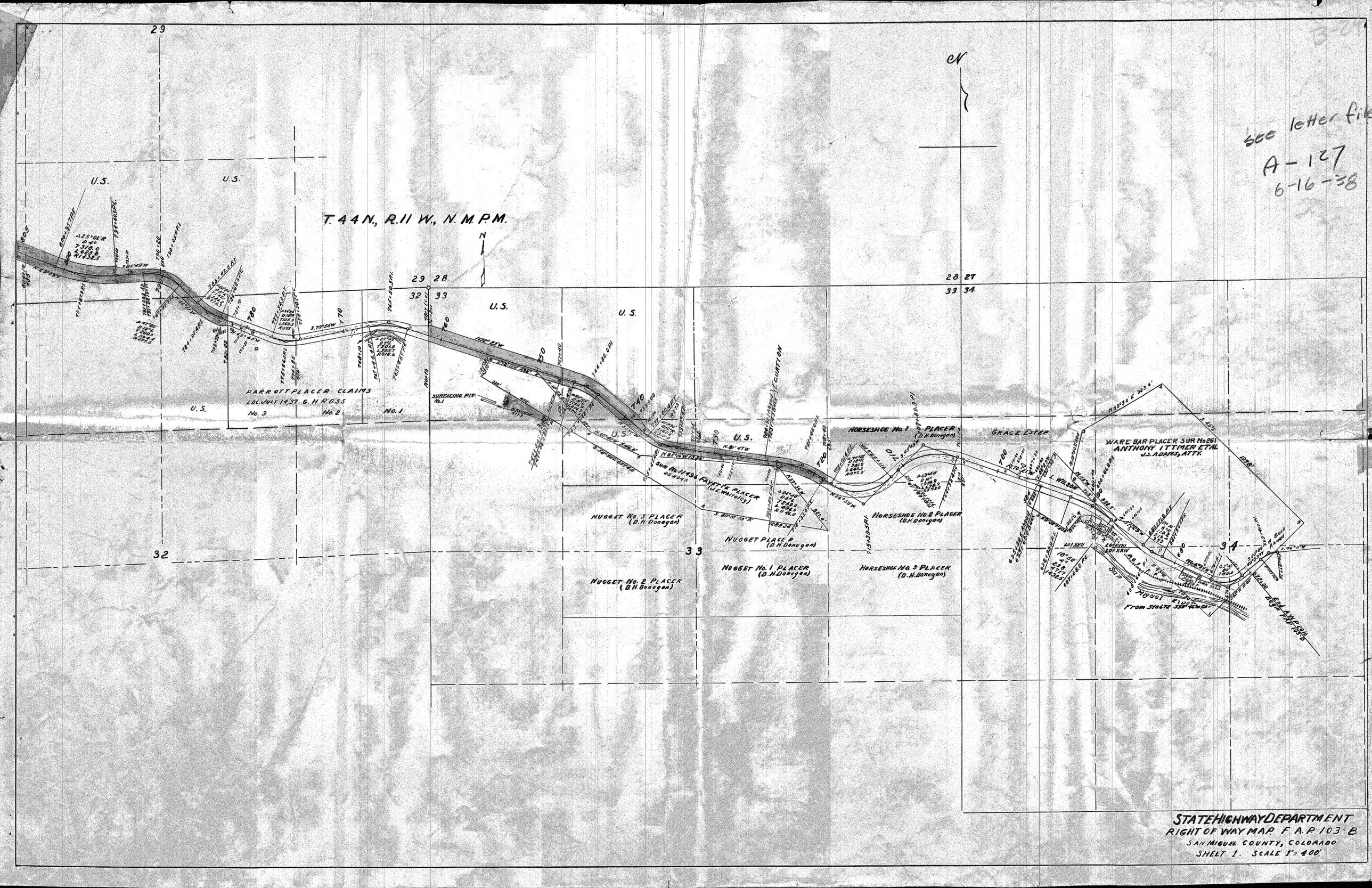
* Quantities used in Roadway

R.O.W. MARKERS

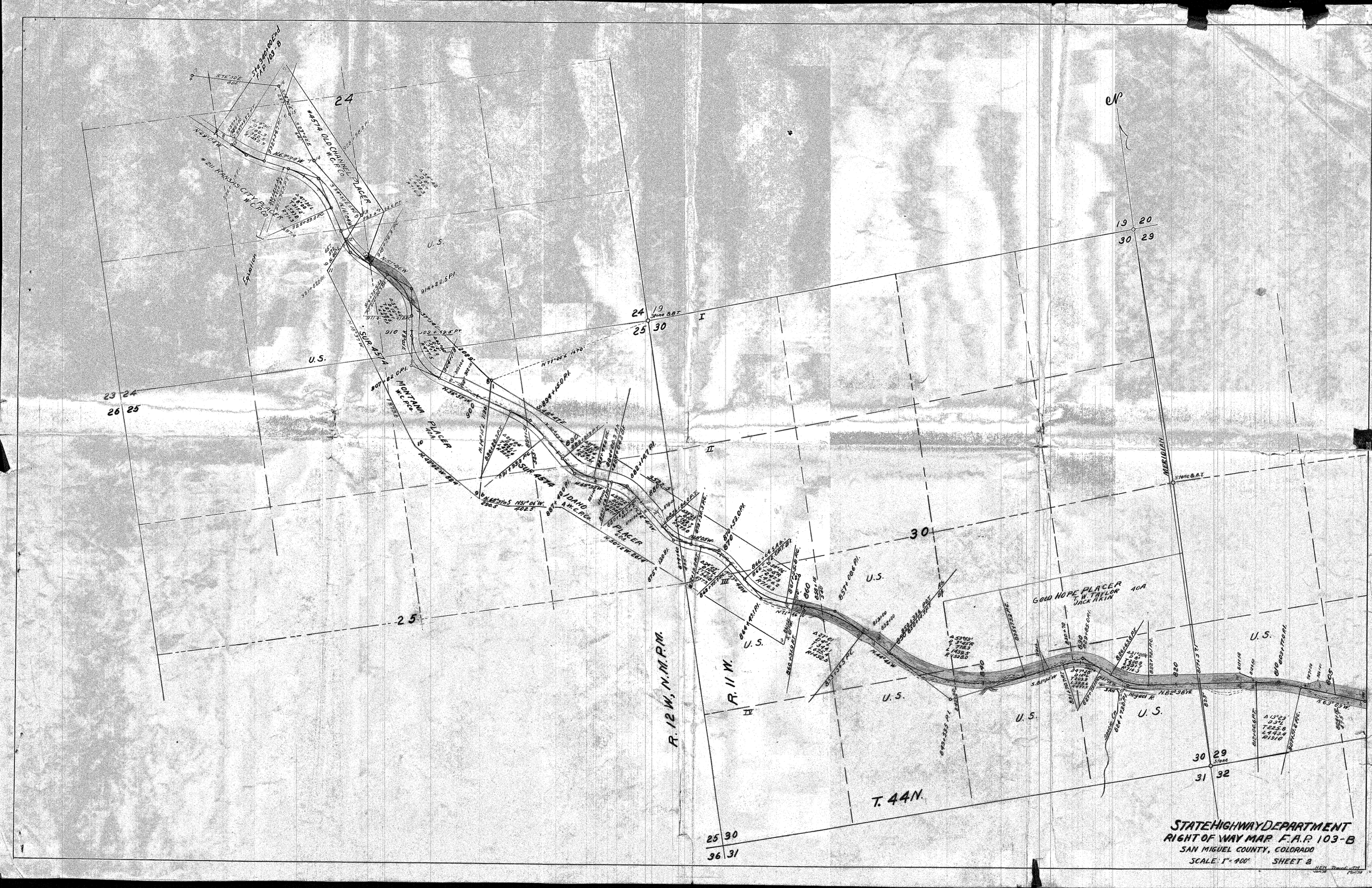
Station	Side	No.	Elevation
672+00	L	1	
674+23	R	1	
674+37	L	1	
676+11	L	1	
677+00	L	1	
680+00	R	1	
681+75	R	1	
684+10	L	1	
686+00	R	1	
687+00	R	1	
696+00	R	1	
697+00	R	1	
698+00	R	1	
703+56.1	L	1	
703+91.9	R	1	
723+89	L	1	
724+50	L	1	
728+00	L	1	
729+00	L	1	
731+87.8	L	1	
732+02.2	R	1	
738+00	R	1	
739+00	R	1	
761+13.2	L	1	
761+60.9	R	1	
763+00	R	1	
779+50	L	1	
780+50	L	1	
781+50	L	1	
785+78	R	1	
787+06	L	1	
789+98	L	1	
790+37	R	1	
793+50	R	1	
794+50	R	1	
806+00	R	1	
807+00	R	1	
812+50	L-R	2	
813+50	L-R	2	
817+50.6	L	1	
817+70	R	1	
843+35	R	1	
852+00	L-R	2	
853+00	L-R	2	
860+50	L	1	
861+50	L	1	
867+28	R	1	
875+00	R	1	
877+00	R	1	
878+00	R	1	
902+00	R	1	
903+00	R	1	
906+97	R	1	
907+42	L	1	
918+10.6	L	1	
919+09.1	R	1	
938+00	R	1	
939+00	R	△	
Total		62	

FINAL FENCING REQUIREMENTS

Station - Station	Side	Remove Fence	Build Comb. N. Fence	Driveway Gates	Walk Gates
688+50	X	200			
696+00	X	100			
696+00 - 698+70	L	280			
700+90	X	120			
702+40 - 703+80	L	170			
719+00 - 725+00	L	700			
725+00 - 732+70	L	780			
737+00 - 755+00	L	1800			
757+30 - 760+30	L-R	360			
770+20 - 777+30	L	700			
688+54 - 691+29	R		292		
691+43 - 692+40	R		103		
692+40	R		38		
693+00 - 693+25	R		38		
693+25 - 696+06	R		297		
696+06 - 698+26	L		226		
698+26 - 698+57	L		36		
698+95 - 699+05	R		26		
699+19 - 700+84	R		174		
698+95 - 699+19	L		34		
699+19 - 699+41	L		22		
699+55 - 700+39	L		86		
700+39 - 700+50	L		18		
719+10 - 724+09	L		481		
724+23 - 724+73	L		59		
725+07 - 725+76	L		69		
725+79 - 728+22	L		238		
728+36 - 738+98	L		1089		
739+06 - 750+65	L		1144		
750+79 - 751+18	L		71		
751+18 - 755+10	L		398		
755+10 - 757+69	L		263		
757+83 - 760+33	L		259		
768+05 - 768+31	L		26		
768+45 - 777+72	L		986		
691+36	R			1	
699+12	R			1	
699+48	L			1	
724+16	L			1	
725+00	L			1	
728+29	L			1	
738+99	L			1	
750+12	L			1	
757+76	L			1	
768+38	L			1	
777+72	L			1	
725+78	L				1
Totals		5210	6473	11	1



STATE HIGHWAY DEPARTMENT
RIGHT OF WAY MAP. F.A.P. 103-B
SAN MIGUEL COUNTY, COLORADO
SHEET 1. SCALE 1" = 400'


STATE HIGHWAY DEPARTMENT
RIGHT OF WAY MAP F.A.P. 103-B
SAN MIGUEL COUNTY, COLORADO
SCALE: 1" = 400'
SHEET 2
T. 44N.
R. 11 W.
R. 12 W., N.M.P.M.
MERIDIAN
#4574 OLD CHANNEL PLACER W.C.P.Co.
#211 KANSAS CITY PLACER W.C.P.Co.
MONTANA PLACER W.C.P.Co.
IDAHO PLACER A.M.C.P.Co.
GOLD HOPE PLACER T.W. TAYLOR JACK TAKIN
SAN MIGUEL R.
U.S.
Equation
Stone B.B.T.