

FED. ROAD DIST. NO.	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-G (I)	1	

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COLORADO

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED

FEDERAL AID PROJECT NO. 29-G (I)

STATE HIGHWAY NO. 8

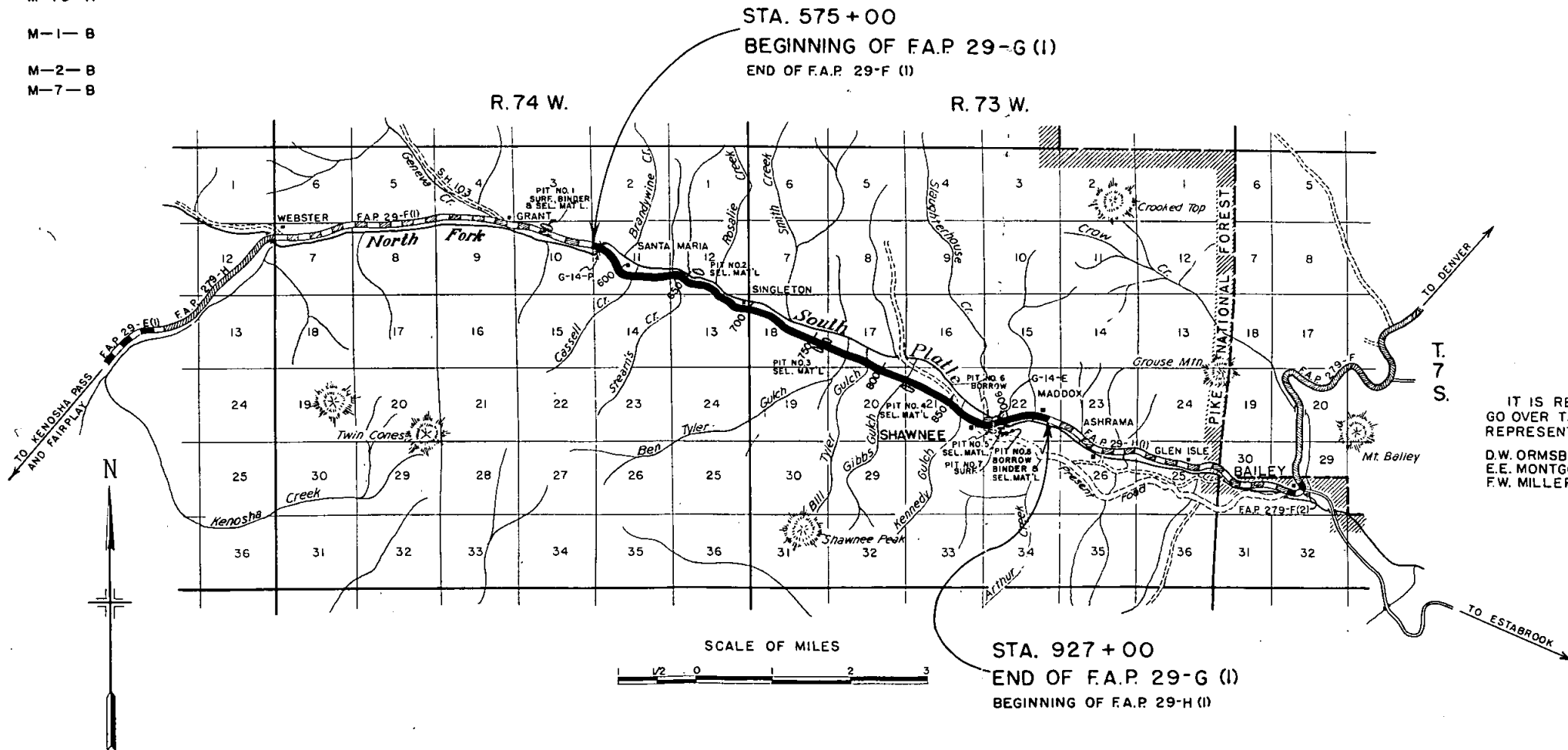
PARK COUNTY

CONVENTIONAL SIGNS

- CENTER LINE OF SURVEY
- RIGHT OF WAY LINES
- TOWNSHIP OR RANGE LINES
- SECTION LINES
- ONE QUARTER SECTION LINES
- RAILROAD TRACKS
- BARBED WIRE FENCE
- POLE LINES

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 } 35,292.3 FEET = 6.684 MILES
- NET LENGTH OF PROJECT }



NOTE

IT IS RECOMMENDED THAT THE BIDDERS ON THIS PROJECT GO OVER THE PLAN DETAILS WITH ONE OF THE FOLLOWING FIELD REPRESENTATIVES OF THIS DEPARTMENT.

D.W. ORMSBEE	CONSTRUCTION ENGINEER	DENVER
E.E. MONTGOMERY	DIVISION ENGINEER	DENVER
F.W. MILLER	RESIDENT ENGINEER	DENVER

RECOMMENDED FOR APPROVAL
[Signature] 5/25/39
ASSISTANT ENGINEER

APPROVED
[Signature]
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED

DIRECTOR BUREAU PUBLIC ROADS

Notes:

Alignment and grade shown on these plans are subject to adjustment during construction, after approval by the Denver office of the Department.

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

All suitable material excavated from culverts and ditches, and not used for ditch embankment is to be used in the roadway embankment.

All railroad ties and other objectionable waste material on the right of way shall be removed and burned by the Contractor where the new work lies along abandoned R.R. grade.

Right of Way Markers are tabulated on Sheet No. 3.

Fencing is

Timber Guard Posts

Wire Cable Guard Fence is

FORCE ACCOUNT (WORK BY MOUNTAIN STATES TEL. & TEL. CO. FORCES.)

Sta. 607 to 671, Sta. 700+, Sta. 820+, & Sta. 920 to 922.

Relocate telephone line.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-6 (1)	30	

N.E. 1/4 SEC. 10
T. 7 S. R. 74 W

S.W. 1/4 N.W. 1/4 SEC. 11

S.E. 1/4 NW. 1/4 SEC. 11

Sta. 575+45
Remove cattle guard, Lt.

Sta. 575+00 to 579+50
Req'd. 135 cu. yds. uncl. excavation for intercepting ditch, Lt.

Sta. 581+50 to 583+50
Req'd. 75 cu. yds. embankment for filling hole, Lt.

WESTERN UNION POLE LINE

South

Platte

River

NE 1/4 SW 1/4 SEC. 11

STA. 575 + 00
BEGINNING OF F.A. PROJECT 29-G (1)
END OF F.A. PROJECT 29-F (1)

Sta. 575+44
Req'd. 24'x52' C.M.P. cross culvert & 10 cu. yds. uncl. excavation for inlet & outlet.

Sta. 579+91.0 to 580+74.8
Req'd. Concrete & Built-up Deck Girder Bridge (span 79') as per details shown on Sheets No. 9 to 11 & 14 & 15.
Req'd. 1500 cu. yds. uncl. excavation for channel improvement.
Excavated material to be used in the roadway embankment.
Remove disused bridge.
Req'd. detour bridge (Details on Sheet No. 16) & 500 cu. yds. emb. & 1000 sta. yds. overhaul.
8200 tons gravel surfacing for detour bridge approaches. (Refer to Sheet No. 2)
Req'd. Remove disused detour bridge, Lt.
Req'd. 300 cu. yds. uncl. excavation for removing detour approaches.

Sta. 576+00 to 578+50
Req'd. 110 cu. yds. embankment for filling hole, Rt.

Sta. 580+64 to 623+00
Req'd. 1350 cu. yds. uncl. excavation for intercepting ditch, Rt.

Sta. 588+40
Req'd. 48'x92' C.M.P. cross culvert & 10 cu. yds. uncl. excavation for inlet.

Sta. 590+00
Remove & rebuild garbage pit, Rt.

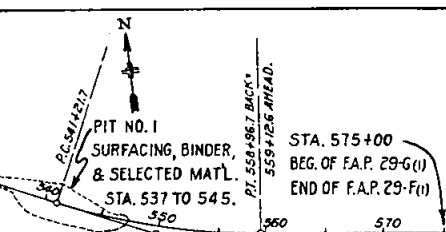
Sta. 594+30
Req'd. 1000 cu. yds. uncl. excavation for road approach, Rt.

N.W. 1/4 S.W. 1/4 SEC. 11

CLEARING & GRUBBING

Sta. 586+ to 587+ ~ Aspen.

" 587+ to 593+ ~ Scattered Spruce.
" 593+ to 603+ ~ Large pine.

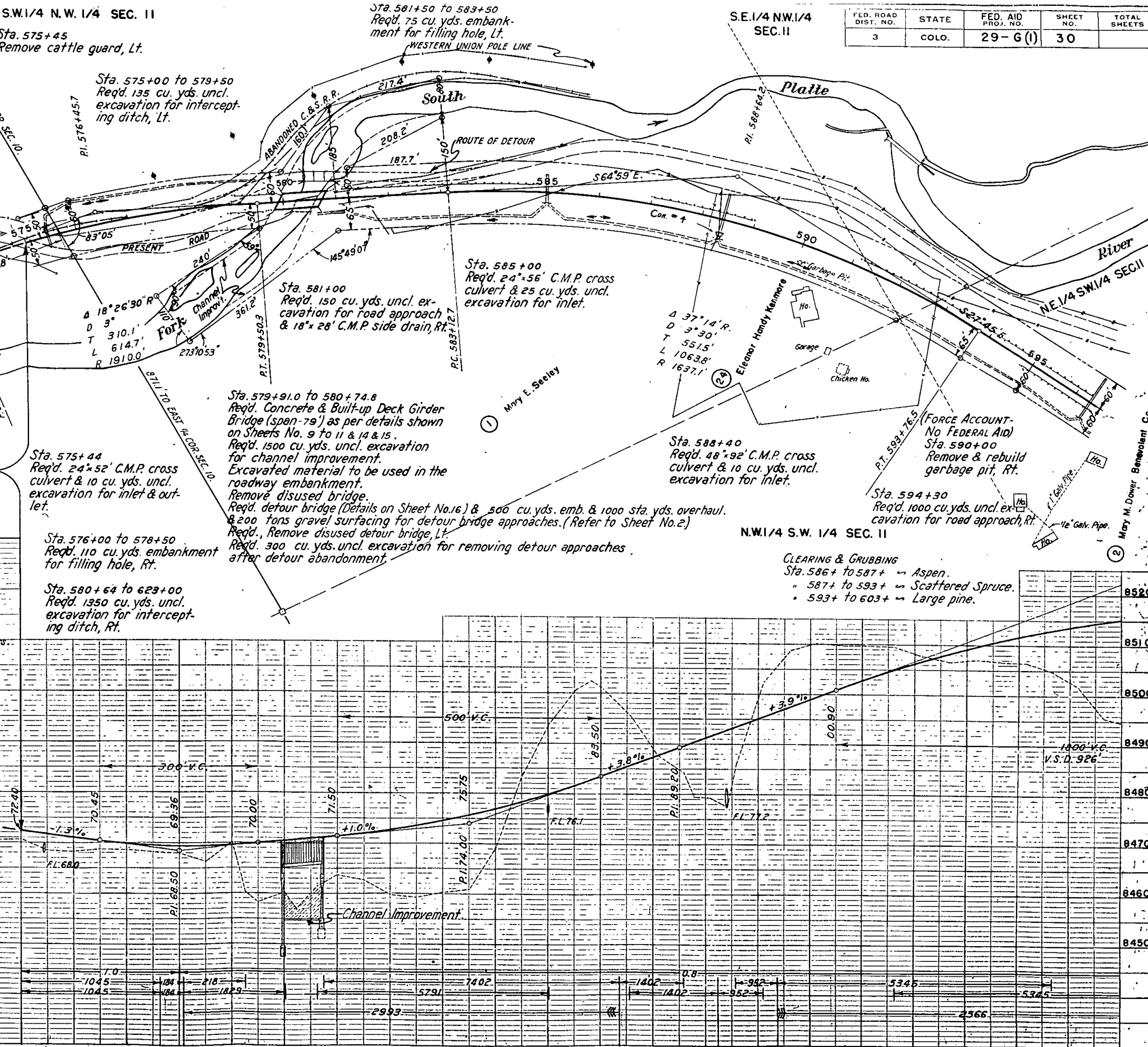


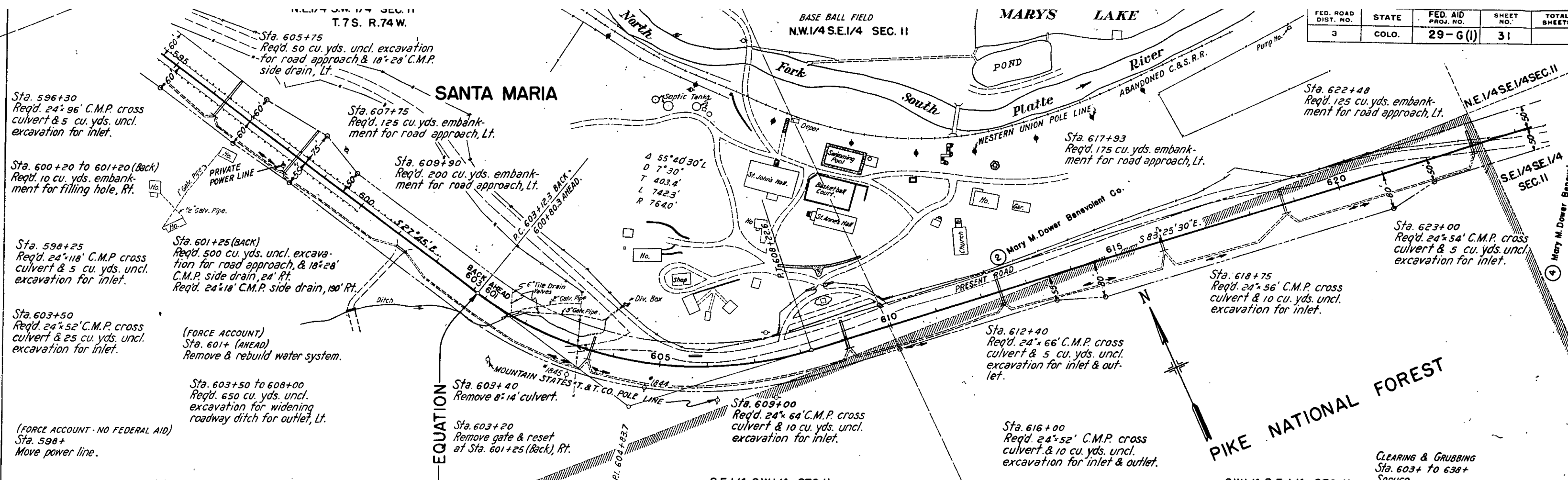
SKETCH SHOWING LOCATION OF PIT NO. 1.

STRUCTURE NOTES FOR BRIDGE, STA. 579+91.0 TO 580+74.8		STRUCTURE NO. 6-14-P
PRES. STRUCTURE	Span	Position referred to present structure
Clear roadway	Span	1 @ 79' - 0" 60' skew
Clear waterway	Clear roadway	30'
Type of Superstructure	Clear waterway	700 sq. ft.
Type of Substructure	Requirements as to removal	Type of Superstructure - Conc. & Built-up Steel Deck Girders.
Stream Data	Drainage area in Sq. Miles	130
Velocity during high water	Normal Stage	Type of Substructure - Conc. Cantilever Abutments.
Elevation of	Low water	Detour Structure requirements
Maximum high water	Stream bed	R.R. Siding - Denver
Record during floods		Haul to bridge site - 36 miles.
		NEARBY STRUCTURES ON SAME STREAM
		Location
		Waterway
		Record during floods

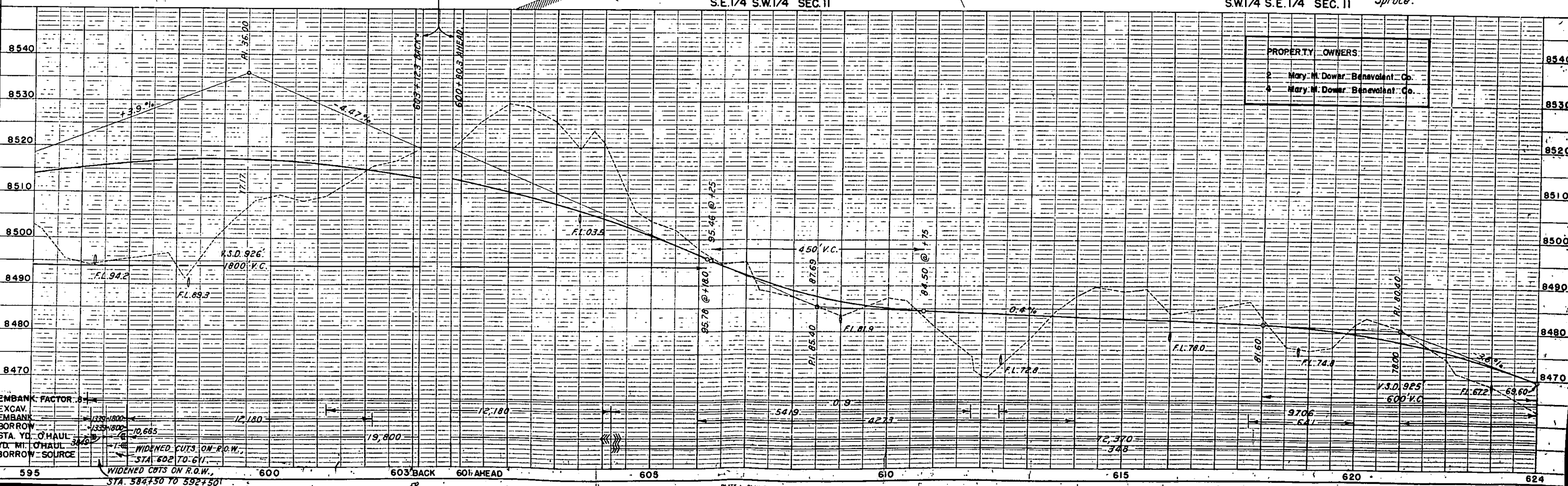
PROPERTY OWNERS	
1	Mary E. Seeley
24	Eleanor Hardy Kenmore
2	Mary M. Dower Benevolent Co.

EMBANKMENT FACTOR	
EXCAV.	
EMBANK.	
BORROW	
STA. YD. O'HAUL	
YD. MI. O'HAUL	
BORROW SOURCE	





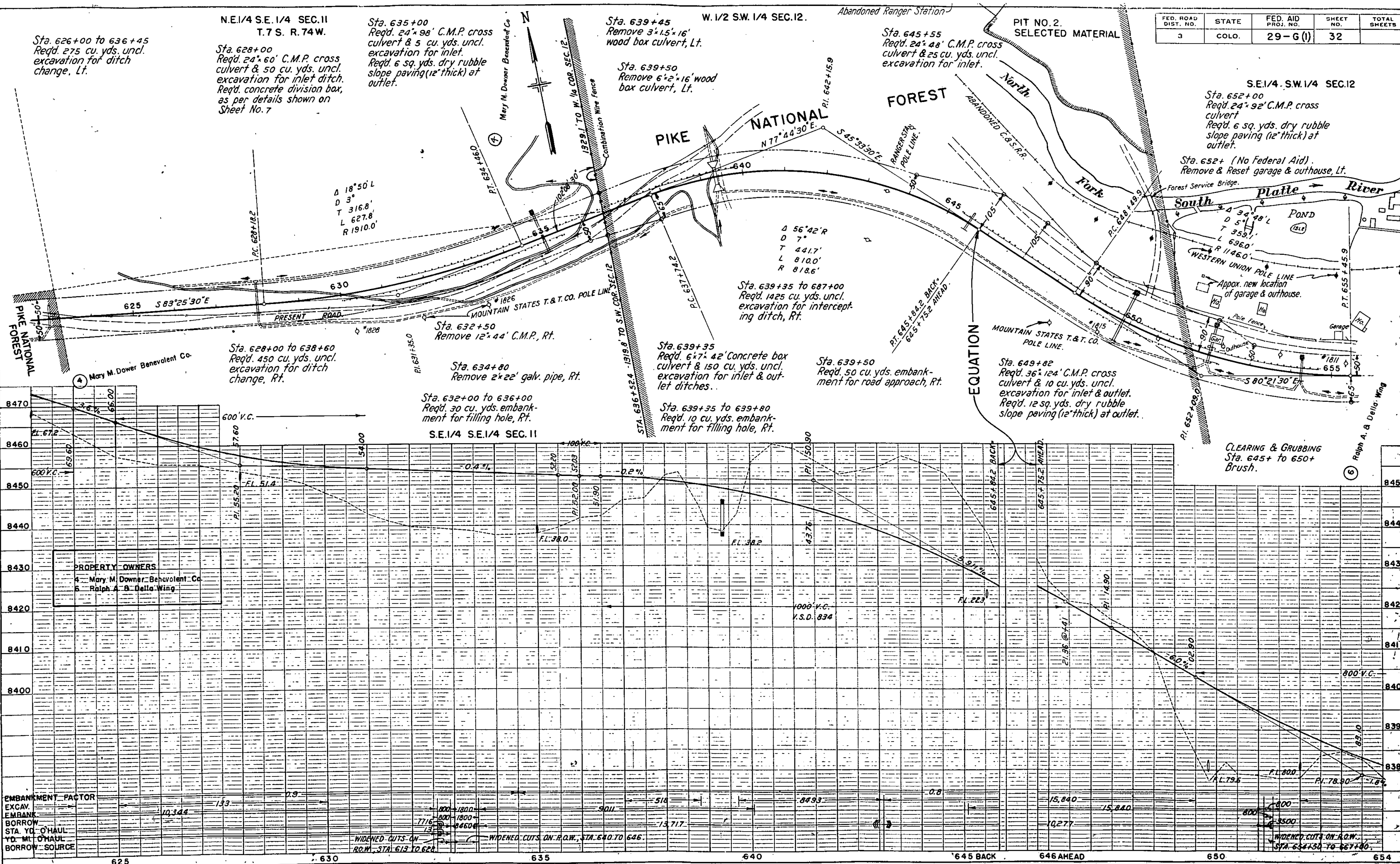
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-G(1)	31	



PROPERTY OWNERS	
2	Mary M. Dower Benevolent Co.
4	Mary M. Dower Benevolent Co.

EMBANK. FACTOR	EXCAV. FACTOR	BORROW STA. YD.	STA. YD.	WIDENED CUTS ON R.O.W.
3.1	1.33	10,685	12,180	19,800
WIDENED CUTS ON R.O.W. STA. 602 TO 611				
WIDENED CUTS ON R.O.W. STA. 594 TO 597				

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-G (1)	32	



WELLER

S.E.1/4 S.W.1/4 SEC.12
T.7 S. R.74 W.

LLANGOLLEN

S.W.1/4 S.E.1/4 SEC.12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-G(1)	33	

N.E.1/4 N.E.1/4 SEC.13

Sta. 655+00
Reqd. 25 cu. yds. embankment for road approach, Lt.

Sta. 666+50 to 667+50
Reqd. 15 cu. yds. embankment for filling hole, Lt.

Sta. 666+70
Reqd. 25 cu. yds. embankment for road approach, Lt.

Sta. 677+90
Reqd. 24'x60' C.M.P. cross culvert & 25 cu. yds. uncl. excavation for inlet & outlet.
Reqd. 7 sq. yds. dry rubble slope paving (12" thick) at outlet.

Sta. 682+40
Reqd. 100 cu. yds. embankment for road approach, Lt.

Sta. 661+00
Reqd. 10 cu. yds. uncl. excavation for drain ditch, Lt.

Sta. 659+00
Reqd. 24'x72' C.M.P. cross culvert & 25 cu. yds. uncl. excavation for inlet.
Reqd. 6 sq. yds. dry rubble slope paving (12" thick) at outlet.

Sta. 665+75
Reqd. 36'x60' C.M.P. cross culvert & 200 cu. yds. uncl. excavation for inlet & outlet ditches.
Remove 1'x2'x25' wood box culvert, Lt.

Sta. 669+00
Reqd. 24'x64' C.M.P. cross culvert & 25 cu. yds. uncl. excavation for inlet.
Reqd. 6 sq. yds. dry rubble slope paving (12" thick) at outlet.

Sta. 673+50
Reqd. 24'x58' C.M.P. cross culvert & 15 cu. yds. uncl. excavation for inlet.

Sta. 684+00
Reqd. 24'x54' C.M.P. cross culvert & 20 cu. yds. uncl. excavation for inlet & outlet.

Sta. 656+50
Reqd. 24'x52' C.M.P. cross culvert & 10 cu. yds. uncl. excavation for inlet.

Sta. 654+25
Reqd. 24'x54' C.M.P. cross culvert & 5 cu. yds. uncl. excavation for inlet.
Reqd. 6 sq. yds. dry rubble slope paving at outlet.

Sta. 664+00
Reqd. 24'x56' C.M.P. cross culvert & 10 cu. yds. uncl. excavation for inlet & outlet.
Reqd. 6 sq. yds. dry rubble slope paving (12" thick) at outlet.

PROPERTY OWNERS
6 - Ralph A. & Della Wing
7 - Ray Williams
8 - Albert T. Oranhood
9 - John B. & Harriet M. Shipman

CLEARING & GRUBBING
Sta. 655+ to 668+
Aspen & Brush.
Sta. 682+ to 691+
Scattered Willows.

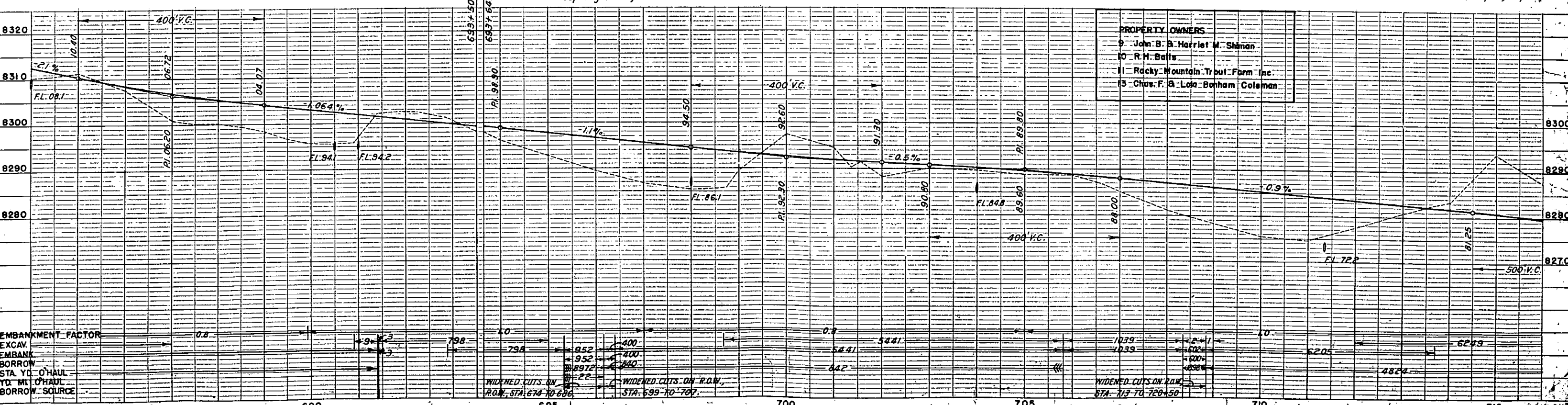
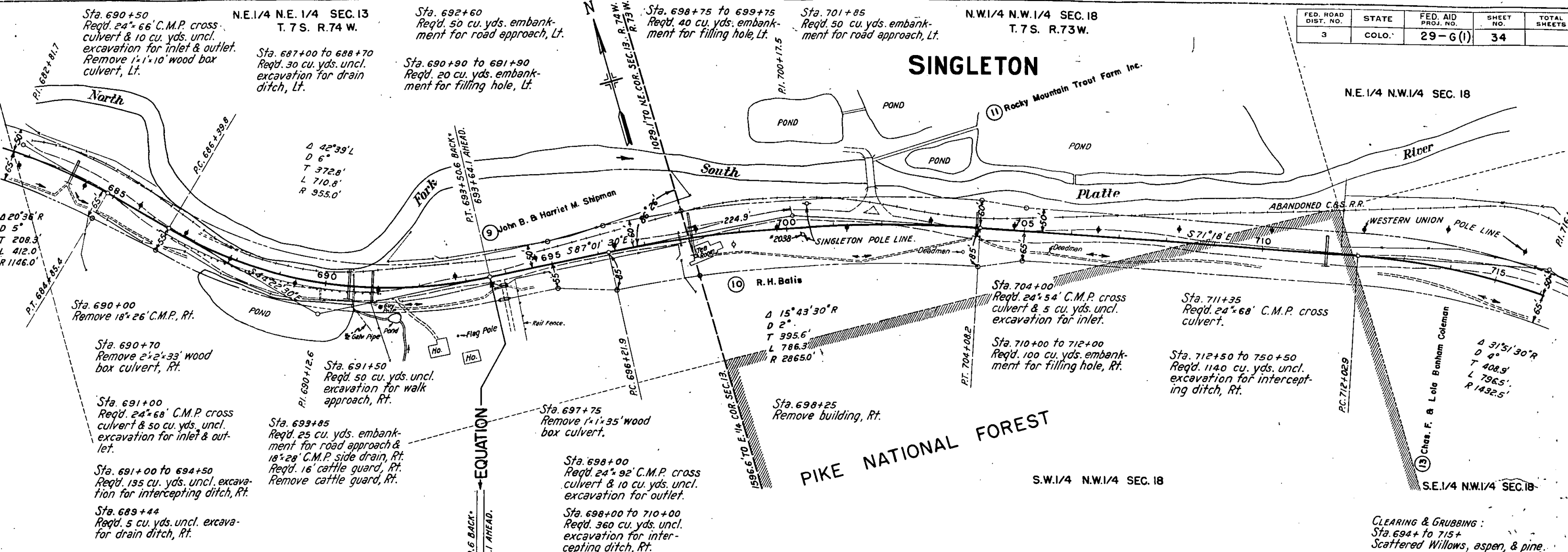
EMBANKMENT FACTOR
EXCAV. 8200
EMBANK. 8200
BORROW 18,071
STA. YD. O'HAUL

680

685

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-6(1)	34	

SINGLETON



S.E. 1/4 N.W. 1/4 SEC. 18
T. 7S. R. 73W.Sta. 723+10
Reqd. 24'x64' C.M.P. cross
culvert & 5 cu. yds. uncl.
excavation for inlet.Sta. 730+50
Reqd. 300 cu. yds. embank-
ment for road approach, Lt.
Reqd. 16' cattle guard, Lt.Sta. 732+80
Remove cattle guard, Lt.

Chas. F. & Lola Bonham Coleman

$\Delta 25^{\circ}20' L$
 $D 4'$
 $T 3220'$
 $L 6333'$
 $R 1432.5'$

$\Delta 31^{\circ}51'30'' R$
 $D 4'$
 $T 408.9'$
 $L 796.5'$
 $R 1432.5'$

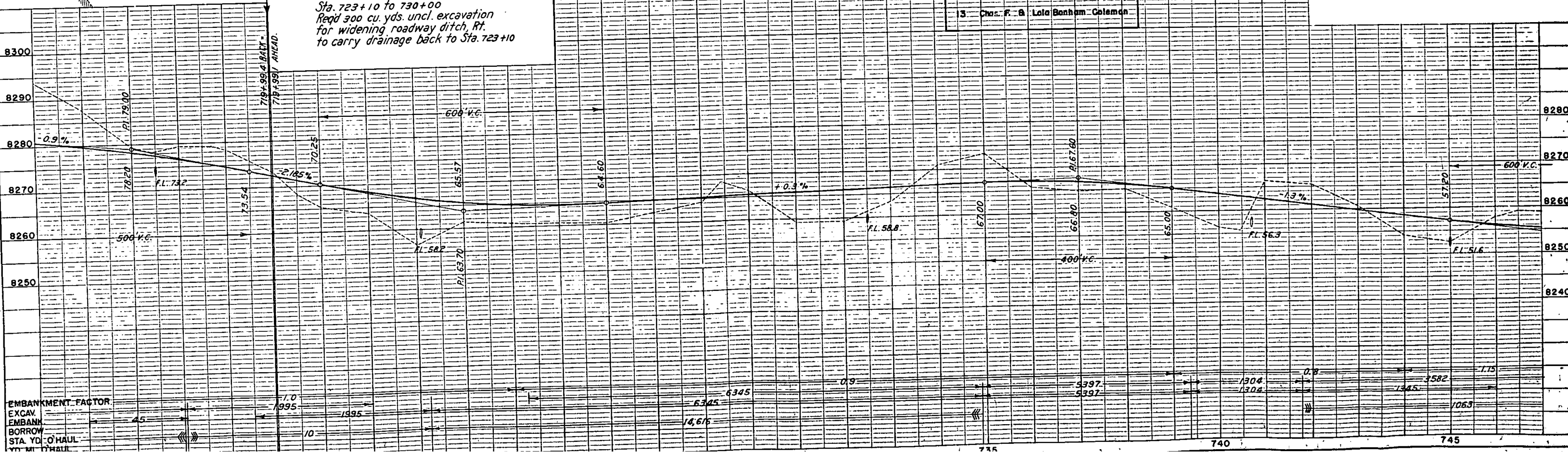
Sta. 717+50
Reqd. 24'x52' C.M.P. cross
culvert & 20 cu. yds. uncl.
excavation for inlet & out-
let.Sta. 721+45
Reqd. 10 cu. yds. embank-
ment for walk approach &
18'x18' C.M.P. side drain, Rt.Sta. 721+45
Remove & reset flag pole, Rt.Sta. 722+85
Reqd. 60 cu. yds. embank-
ment for road approach &
18'x32' C.M.P. side drain, Rt.Sta. 723+10 to 730+00
Reqd. 300 cu. yds. uncl. excavation
for widening roadway ditch, Rt.
to carry drainage back to Sta. 723+10Sta. 732+50
Reqd. 24'x60' C.M.P. cross
culvert & 25 cu. yds. uncl.
excavation for inlet.
Reqd. 6 sq. yds. dry rubble
slope paving (12" thick) at
outlet.Sta. 740+70
Reqd. 24'x56' C.M.P. cross
culvert & 10 cu. yds. uncl.
excavation for inlet.
Reqd. 6 sq. yds. dry rubble
slope paving (12" thick) at
outlet.Sta. 743+53
Remove 18'x32' C.M.P., Rt.Sta. 745+00
Reqd. 24'x54' C.M.P. cross
culvert & 5 cu. yds. uncl.
excavation for inlet.CLEARING & GRUBBING
Sta. 718+ to 721+ ~ Aspen, Spruce, & Brush.
" 724+ to 726+ ~ " " Pine.
" 726+ to 735+ ~ " " Pine.

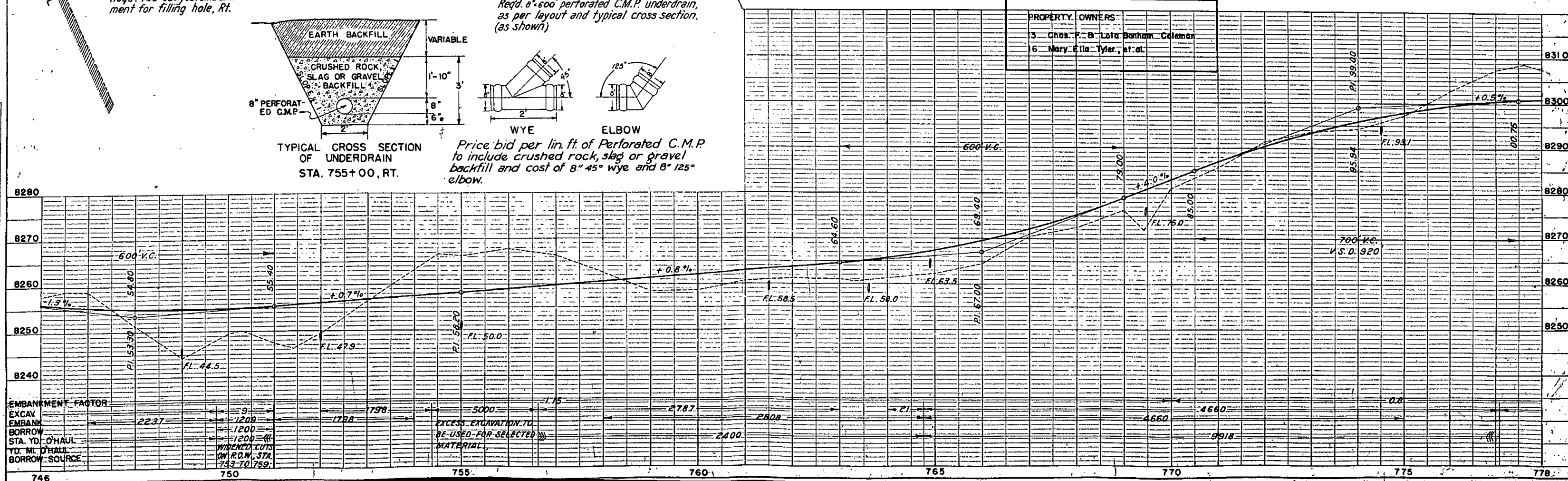
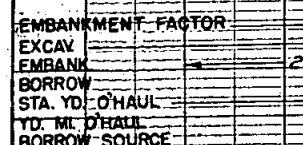
S.W. 1/4 SEC. 18

S.E. 1/4 SEC. 18

PROPERTY OWNERS

13 Chas. F. & Lola Bonham Coleman

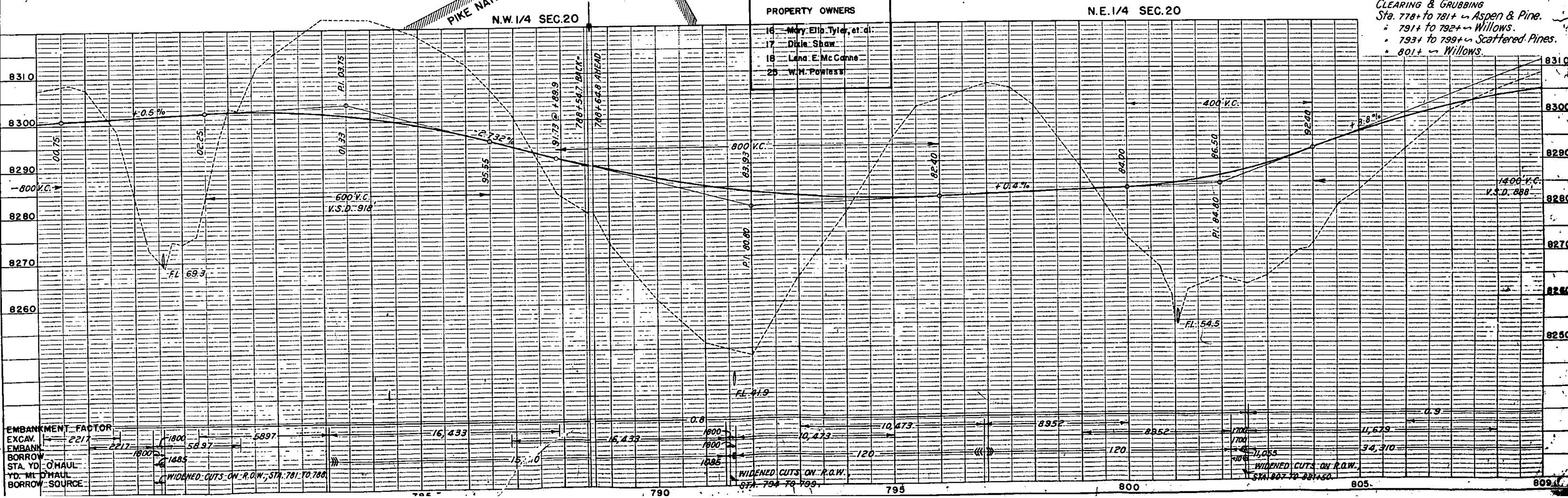
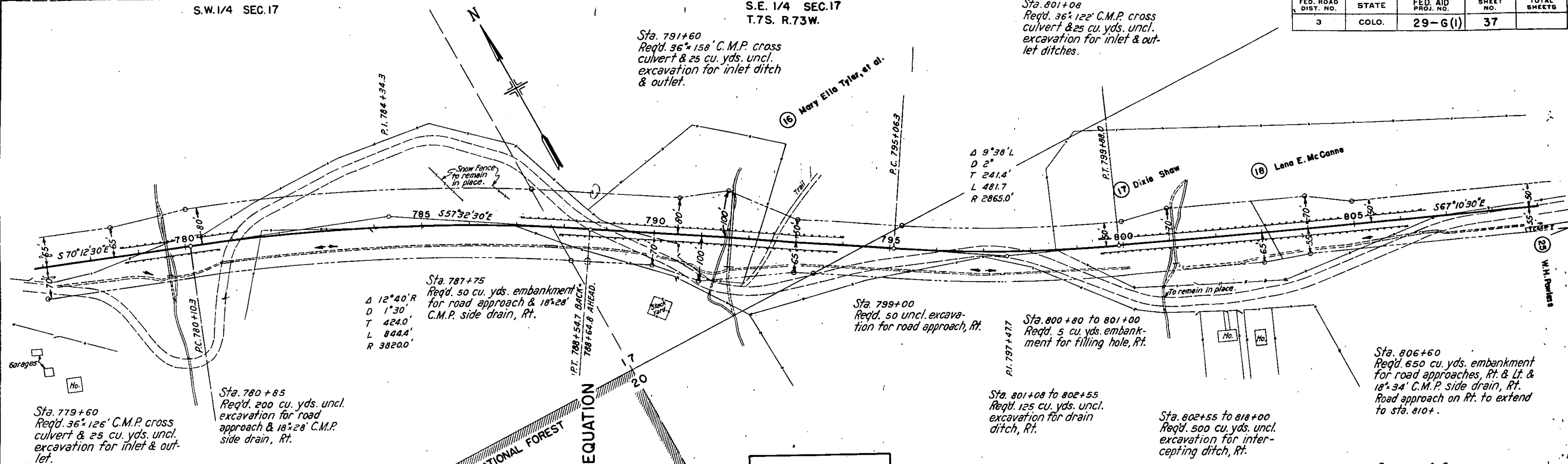




S.W. 1/4 SEC. 17

S.E. 1/4 SEC. 17
T.7S. R.73W.Sta. 801+08
Req'd. 36" 122' C.M.P. cross
culvert & 25 cu. yds. uncl.
excavation for inlet & out-
let ditches.

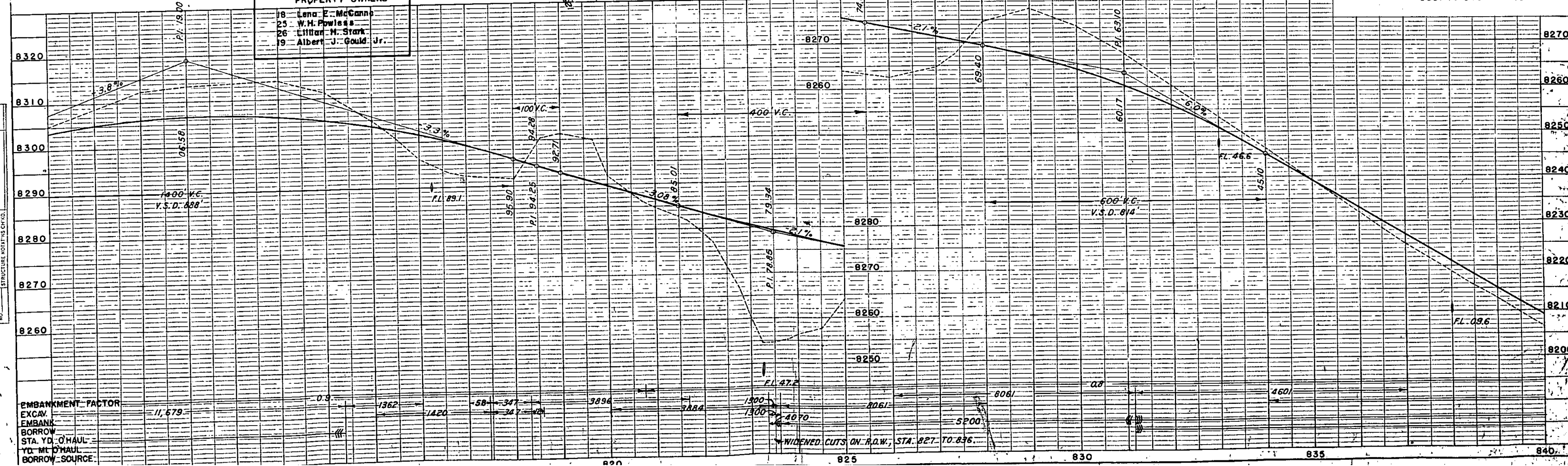
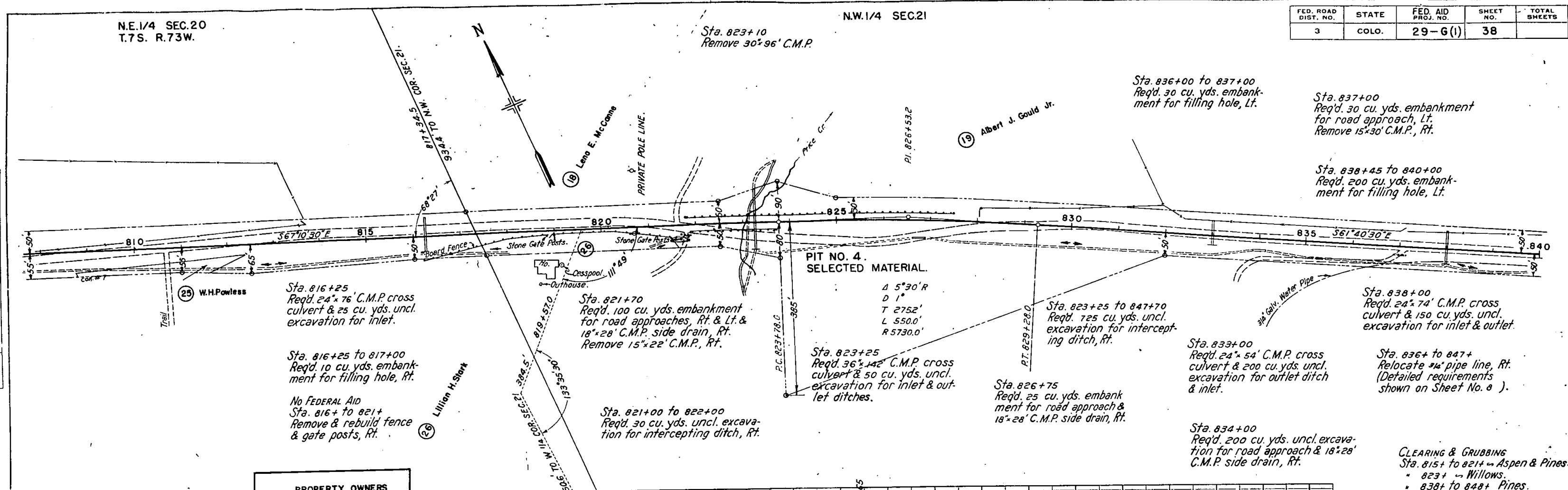
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-6(1)	37	



N.E. 1/4 SEC. 20
T. 7 S. R. 73 W.

N.W. 1/4 SEC. 21

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-G(1)	38	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-G(1)	39	

S.E. 1/4 SEC. 21

Sta. 869+25
Reqd. 50 cu. yds. embankment for road approach, Lt.

SHAWNEE LAKE

Δ 16°00' L
D 2°30'
T 3221'
L 6400'
R2292.0

Sta. 868+00
Reqd. 50 cu. yds. embankment for road approach, Lt.

Sta. 858+15
Reqd. 125 cu. yds. uncl. excavation for road approaches, Rt. & Lt.
Reqd. 18' 20" C.M.P. side drain, Lt. & 18' 28" C.M.P. side drain, Rt.

Sta. 850+00
Reqd. 24' 66" C.M.P. cross culvert & 20 cu. yds. uncl. excavation for inlet & outlet.

Sta. 850+55
Reqd. 24' 58" C.M.P. cross culvert & 25 cu. yds. uncl. excavation for inlet & outlet ditches.

Sta. 852+20 to 858+00
Reqd. 125 cu. yds. uncl. excavation for ditch change, Lt.

Sta. 850+90
Reqd. 200 cu. yds. uncl. excavation for road approach, Rt.

Sta. 851+25 to 872+50
Reqd. 760 cu. yds. uncl. excavation for intercepting ditch, Rt.

Sta. 847+40
Reqd. 100 cu. yds. embankment for road approach & 18' 36" C.M.P. side drain, Lt.

Sta. 848+10
Remove 18' 26" C.M.P., Rt.

Sta. 844+67
Reqd. 24' 70" C.M.P. cross culvert & 10 cu. yds. uncl. excavation for inlet.
Remove 18' 60" C.M.P.

Sta. 847+70
Reqd. Standard 6' 7" x 52' Concrete Box Culvert & 10 cu. yds. uncl. excavation for inlet & outlet.
Remove 15' 62" C.M.P.

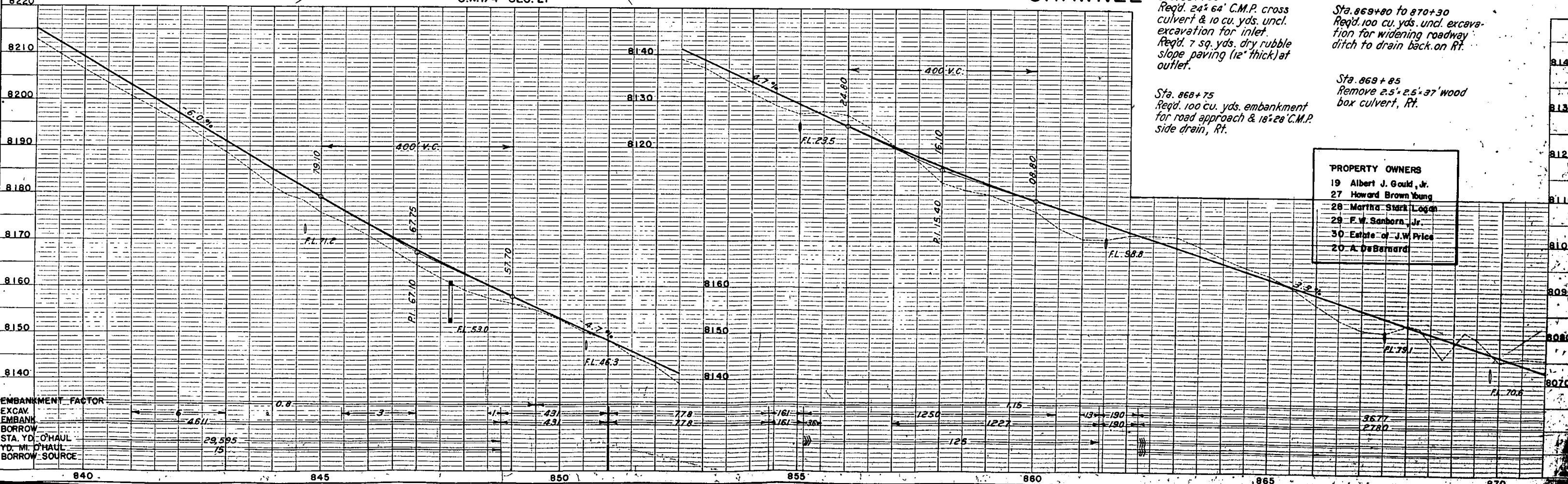
No FEDERAL AID
Sta. 848+ to 850+
Remove & rebuild fence & gate posts, Rt.

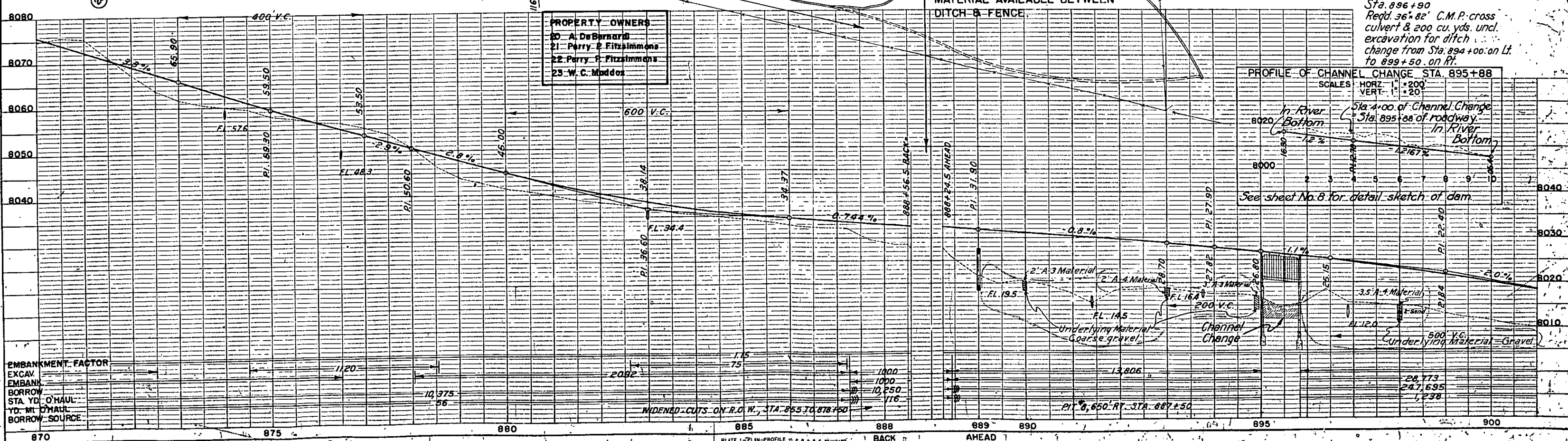
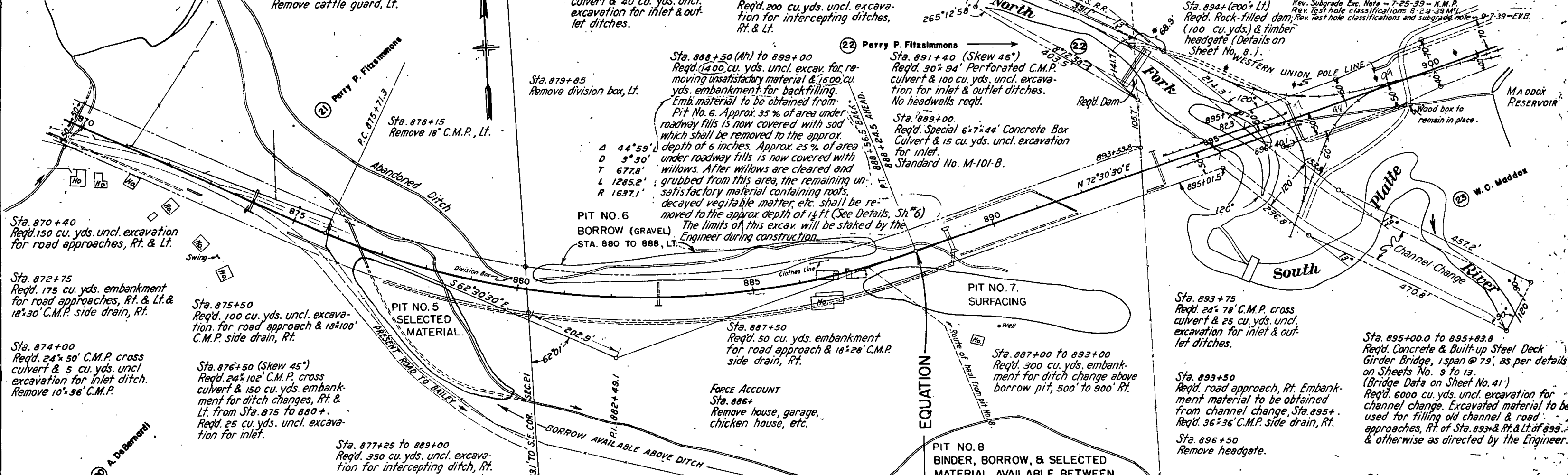
Sta. 848+75
Reqd. 50 cu. yds. embankment for road approach, Rt.

S.W. 1/4 SEC. 21

SHAWNEE

- PROPERTY OWNERS
- 19 Albert J. Gould, Jr.
 - 27 Howard Brown Young
 - 28 Martha Stark Logan
 - 29 F.W. Sanborn, Jr.
 - 30 Estate of J.W. Price
 - 20 A. De Bernard





FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VII	COLO.	CXBRF 54-285-13	3	42

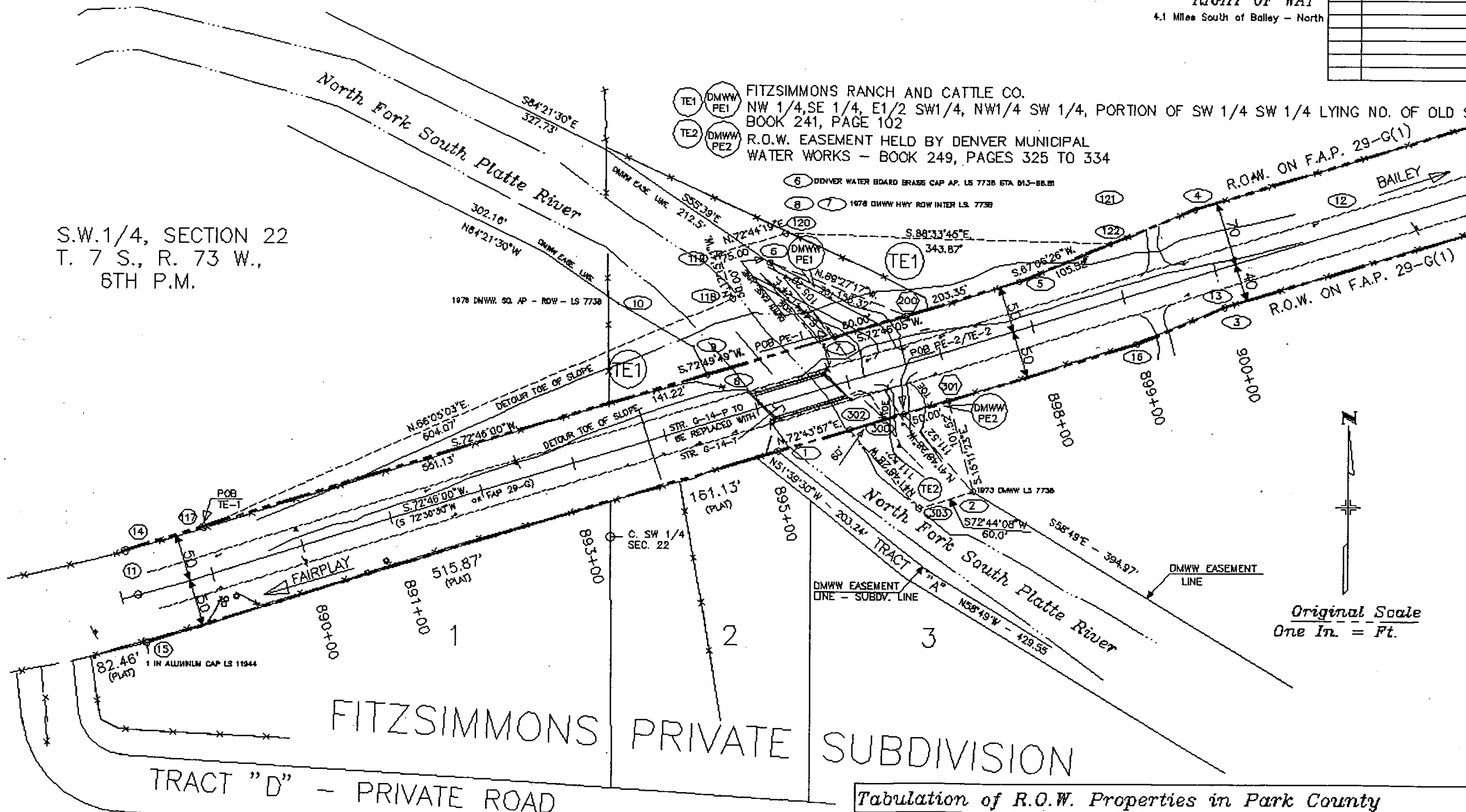
RIGHT OF WAY

4.1 Miles South of Bailey - North

REVISIONS	

FITZSIMMONS RANCH AND CATTLE CO.
 NW 1/4, SE 1/4, E1/2 SW1/4, NW1/4 SW 1/4 LYING NO. OF OLD S.H.
 BOOK 241, PAGE 102
 R.O.W. EASEMENT HELD BY DENVER MUNICIPAL
 WATER WORKS - BOOK 249, PAGES 325 TO 334

S.W.1/4, SECTION 22
 T. 7 S., R. 73 W.,
 6TH P.M.



Tabulation of R.O.W. Properties in Park County

PARCEL I.D.	OWNER	ADDRESS	LOCATION	Parcel	Net	Remainder		PARCEL I.D.	REMARKS
						Left	Right		
PE-1 (DMWW)	FITZSIMMONS LAND & CATTLE CO.		SW 1/4 SECTION 22 T. 7S., R. 73W., 6TH P.M.	.028 AC 3830 SF				PE-1 (DMWW)	TO REPLACE DMWW ACCESS TO BE ACQUIRED IN DMWW NAME.
PE-2 (DMWW)				.058 AC 2538 SF				PE-2 (DMWW)	SAME AS PE-1
TE-1 (CDDT)				1.168 AC 50690 SF				TE-1 (CDDT)	118875F/289AC OF TE-1 ENCUMBERED BY EXISTING DMWW PERM. ROW EASE.
TE-2 (CDDT)				0.198 AC 8623 SF				TE-2 (CDDT)	TE-1 & TE-2 NEEDED TO RECONSTRUCT A ROAD APP. 80875F/0.140AC OF TE-2 ENCUMBERED BY DMWW EASE.

Sta. 899+10 to 910+50
Req'd. 1300 cu. yds. uncl. excavation for drain ditch, Lt. (as shown below)

2' MIN. DEPTH OF DITCH, MIN. BERM 10'

TYPICAL SECTION OF DRAIN DITCH

S.W. 1/4 SEC. 22

Sta. 910+50
Req'd. 36' 72" C.M.P. cross culvert & 25 cu. yds. uncl. excavation for inlet & outlet ditches.
Req'd. 5 cu. yds. riprap at outlet.

Sta. 910+60
Req'd. 100 cu. yds. embankment for road approach, Lt.

Sta. 910+60 to 913+00
Req'd. 100 cu. yds. uncl. excavation for drain ditch, Lt.

Sta. 913+00 to 924+50
Req'd. 450 cu. yds. uncl. excavation for intercepting ditch, Lt.

S.E. 1/4 SEC. 22
T.7S. R.73W.

Sta. 918+00
Req'd. 24' 50" C.M.P. cross culvert & 10 cu. yds. uncl. excavation for inlet & outlet ditches.

Sta. 922+90
Remove waiting pavilion, Lt.

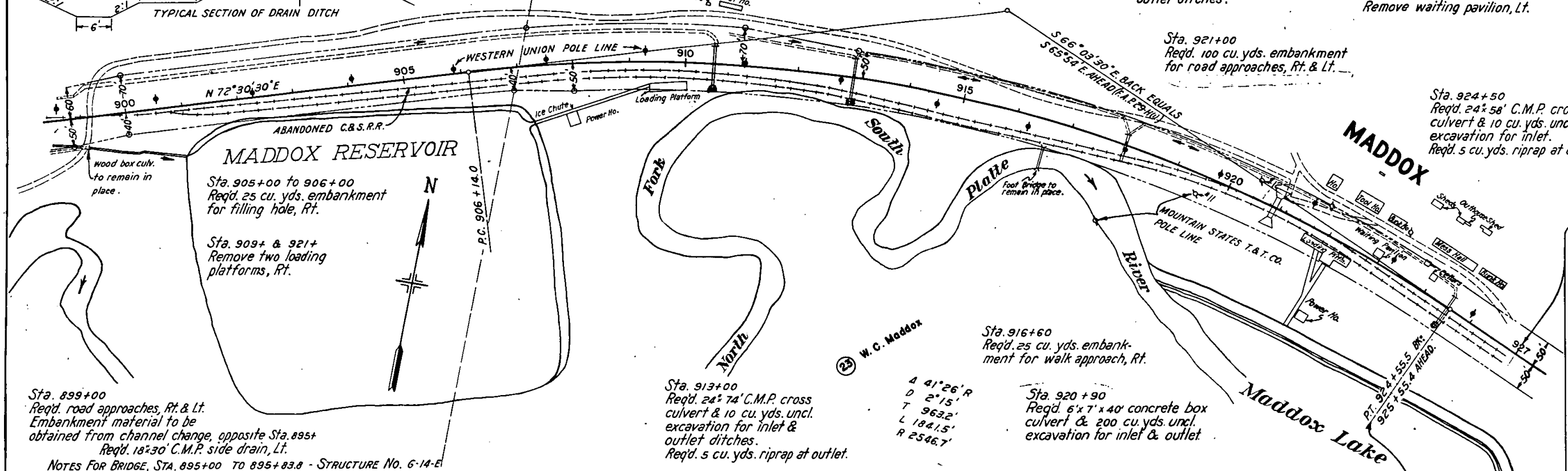
Sta. 923+
Remove 2 log dugout cellars, Lt.
Req'd. 50 cu. yds. embankment for filling cellars, Lt.

Sta. 924+50
Req'd. 24' 58" C.M.P. cross culvert & 10 cu. yds. uncl. excavation for inlet.
Req'd. 5 cu. yds. riprap at outlet.

STA. 927+00
END OF F.A. PROJECT 29-G (I)
BEGINNING OF F.A. PROJECT 29-H (I)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	29-G (I)	41	

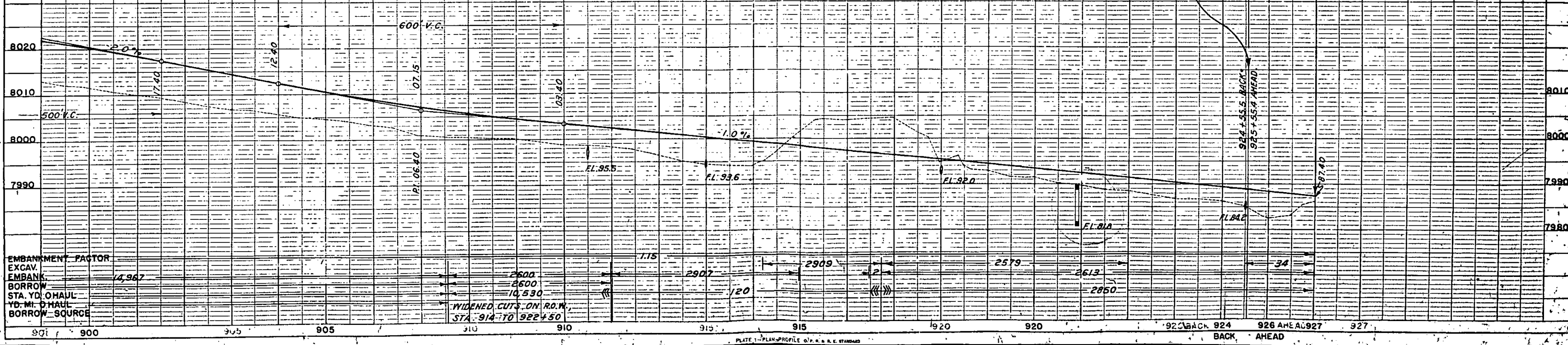
Rev. C.B.C. added - Side Drain deleted - B-23-39-GRB



NOTES FOR BRIDGE, STA. 895+00 TO 895+83.8 - STRUCTURE NO. 6-14-E

PRESENT STRUCTURE
Span - 107' 9" 60° skew.
Clear roadway - 30'.
Clear waterway - 600 sq. ft.
Type of Superstructure - Concrete & Built-up Steel Deck Girders.
Type of Substructure - Concrete Cantilever Abutments.
Requirements as to removal -
STREAM DATA
Drainage area in Sq. Miles - 160.
Velocity during high water -
Elevation of -
Maximum high water -
Normal Stage -
Drift -
Scour -

PROPOSED STRUCTURE
Position - referred to present structure -
Span - 107' 9" 60° skew.
Clear roadway - 30'.
Clear waterway - 600 sq. ft.
Type of Superstructure - Concrete & Built-up Steel Deck Girders.
Type of Substructure - Concrete Cantilever Abutments.
Detour Structure Requirements -
R.R. Siding - Denver - Haul to bridge site - 50 miles.
NEARBY STRUCTURES ON SAME STREAM
Location -
Waterway -
Record during floods -



EMBANKMENT FACTOR
EXCAV. 14.967
EMBANK. 10.530
BORROW STA. YD. OHAUL
YD. MI. OHAUL
BORROW SOURCE