



COLORADO
Department of
Transportation

DOCUMENT SEPARATOR SHEET

REGION 5 – JUNE 2017 CONVERSION

To be placed at the beginning of each separator sheet.



r500001780

Description:

ROW Plans 11X17

Route # and Mile Points:

SH 159

Originating Office:

ROW/Survey

File Name:

A.W.P. 3003B_ROW(.PDF)

Box Location:

28 of 38

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003B	1	

INDEX OF SHEETS

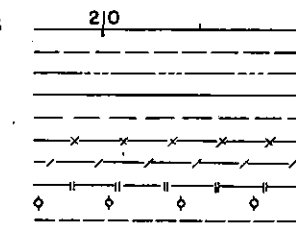
- SHEET NO 1- TITLE SHEET.
 2- TYPICAL SECTION, SUMMARY OF QUANTITIES, R.O.W. MARKERS, FENCING REQUIREMENTS, GRAVEL SURFACING, & SLOPE PAVING.
 3- TABULATION OF STRUCTURES.
 4- STANDARD CONCRETE BOX CULVERT, M-103-D.
 5- STANDARD HEADWALL FOR C.M.P. CULVERTS M-102-E.
 6- STANDARD WIRE FENCE TREATED POSTS AND MARKERS M-24-F
 7- STANDARD METHODS FOR SUPERELEVATION AND WIDENING OF CURVES M-1-A.
 8- TYPICAL SIDE APPROACH ROADS AND ROADWAY CONSTRUCTION TRAFFIC SIGNS M-2-B.
 9-28 PLAN AND PROFILE
 29-115 CROSS SECTIONS

COLORADO STATE HIGHWAY DEPARTMENT

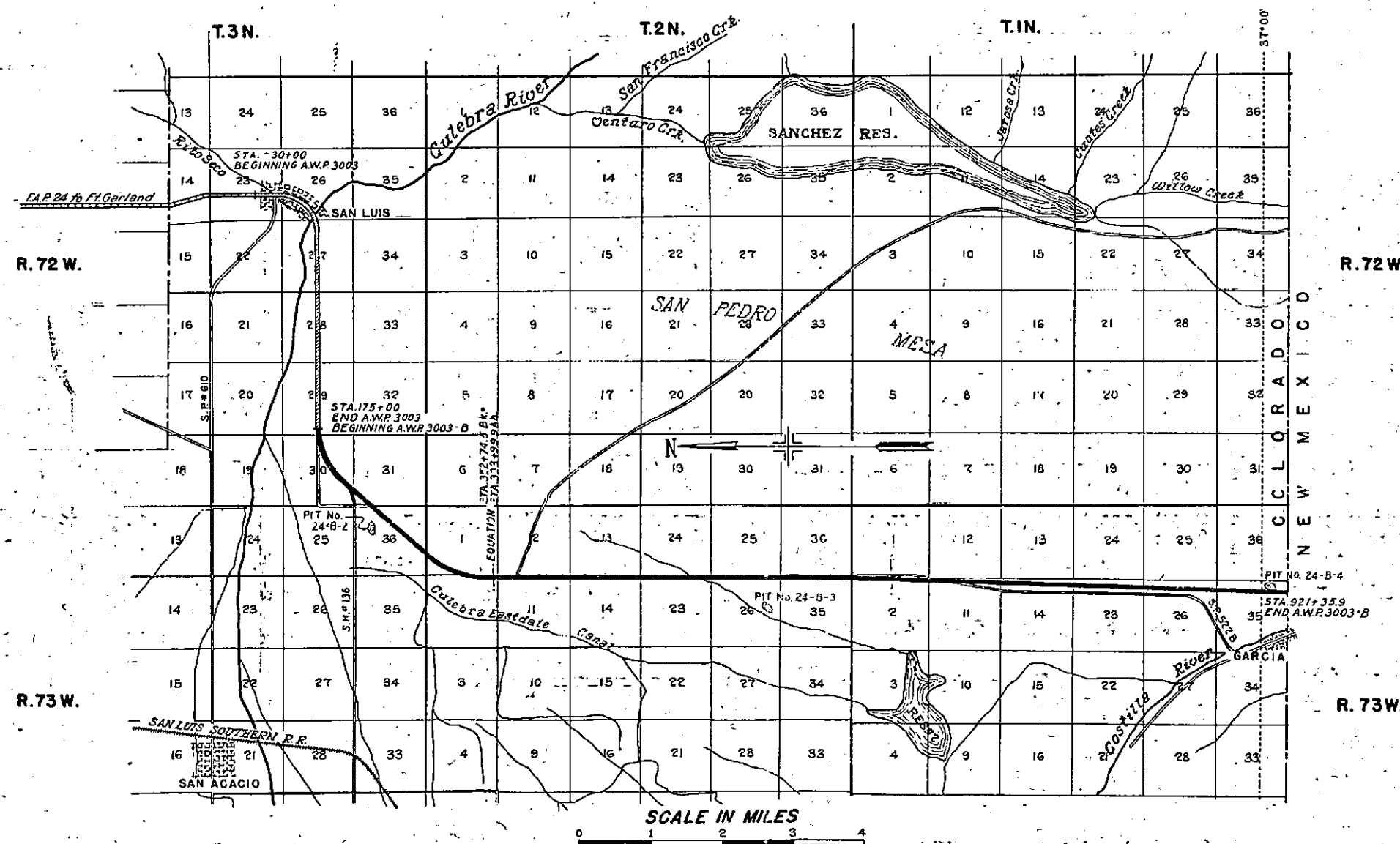
PLAN AND PROFILE OF PROPOSED FEDERAL A.W. PROJECT NO. 3003B STATE HIGHWAY NO. 159 COSTILLA COUNTY

CONVENTIONAL SIGNS

CENTER LINE AS SHOWN ON PLANS
 CENTER LINE FOR CONSTRUCTION
 RIGHT OF WAY LINES
 SECTION LINES
 QUARTER SECTION LINES
 BARBED WIRE FENCE
 PICKET SNOW FENCE
 COMBINATION WIRE FENCE
 TELEPHONE LINES
 SECONDARY ROADS



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 } 76,479.5 FT. = 14.485 MI.
 NET LENGTH OF PROJECT }



NOTE:
 It is recommended that Bidders on this Project go over the plan details with one of the field representatives of this department.
 J.R. Cheney, Div. Engineer, Durango
 W.J. Walsh, Asst. Div. Eng., Alamosa

RECOMMENDED FOR APPROVAL 11/21/36

APPROVED
 J.R. Cheney
 STATE HIGHWAY ENGINEER

R.O.W. MARKERS

SUMMARY OF APPROXIMATE QUANTS.



STATION	SIDE		NUMBER
	LT.	RT.	
208+50	/	/	2
227+33.1	/	/	2
233+40	/	/	1
247+28	/	/	2
275+00	/	/	2
300+43	/	/	2
329+40	/	/	2
352+71.5 BL- 333+99.9 AH-)	/	/	2
ON CONNECTION WITH			S.H.#13
233+40	/	/	1
250+00	/	/	2
361+50	/	/	2
388+00	/	/	1
388+10	/	/	1
414+45	/	/	2
440+75	/	/	2
467+20	/	/	2
493+60	/	/	2
520+30	/	/	2
546+55	/	/	2
573+00	/	/	2
599+40	/	/	2
625+80	/	/	2
652+25	/	/	2
678+00	/	/	2
705+00	/	/	2
731+45	/	/	2
757+90	/	/	2
784+22	/	/	2
810+60	/	/	2
837+10	/	/	2
863+60	/	/	2
892+60	/	/	2
921+35.9	/	/	2
TOTAL			62

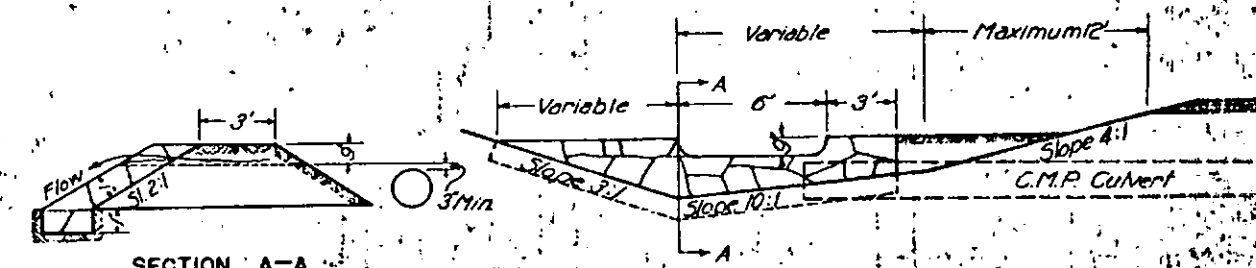
NO.	ITEM	UNIT	ROADWAY QUANTS
10a.	Clearing & Grubbing Entire Project	Lump Sum	●
11b.	Removal of Old Structures	Lump Sum	●
11c.	Remove Stone Foundation & Stone Fence (414')	Lump Sum	●
12a.	Removing Fence	Lin. Ft.	6,800
13c.	Unclassified Excavation	Cu. Yds.	194,000
14a.	Dry Rock Excavation (Str.)	Cu. Yds.	80
14b.	Dry Common Excavation (Str.)	Cu. Yds.	720
14c.	Wet Rock Excavation (Str.)	Cu. Yds.	20
14d.	Wet Common Excavation (Str.)	Cu. Yds.	180
18a.	Station Yard Overhaul	Sta. Yd.	208,000
18b.	Yard Mile Overhaul	Yd. Mi.	850
25a.	Gravel or Crushed Rock Surfacing	Ton	72,100
25c.	Overhaul of Surfacing	Ton Mi.	73,200
46a.	Class "A" Concrete	Cu. Yd.	93
46b.	Class "B" Concrete	Cu. Yd.	116
47	Reinforcing Steel	Lb.	7,400
53b.	18" Corrugated Metal Culvert Pipe	Lin. Ft.	2,322
53c.	24" Corrugated Metal Culvert Pipe	Lin. Ft.	1,992
53d.	30" Corrugated Metal Culvert Pipe	Lin. Ft.	92
53e.	36" Corrugated Metal Culvert Pipe	Lin. Ft.	106
65	Dry Rubble Slope Facing 1ft. thick	Sq. Yd.	250
76a.	Barbed Wire Fence with Treated Wood Posts	Lin. Ft.	11,300
76d.	Combination Wire Fen. - Treated Wood Posts	Lin. Ft.	5,300
76g.	Barbed Wire Gates	Each	9
76h.	Driveway Gates	Each	2
81a.	Project Markers	Each	2
81b.	Right of Way Markers	Each	62

Dry Rubble Slope Paving, as per detail on Sheet No. 2, is to be placed on the lower face of earth dikes in side ditches where such dikes are called for on the plans.

GRAVEL SURFACING

SOURCE		PLACEMENT		OVERH/
PIT NO.	LOCATIONS AND APPROX. CAPACITIES	TONS	STA. TO STA.	TON MI.
24-B-2	NE 1/4 Sec. 36-T3N-R73W 0.5 mi. West of 259+50 22,000 Cu.Yds.	3,259 4,805 12,232 1,919	175+00 to 233+10 233+10 to 285+90 285+90 to 401+57.7 228+92.9 to 250-(Conn)	2,880 0 15,575 0
24-B-3	SE 1/4 Sec. 25-T2N-R73W 0.8 mi. West of 546+60 30,000 Cu.Yds.	12,232 1,929 13,696	401+57.7 to 536+00 536+00 to 557+20 557+20 to 707+70	15,575 0 19,520
24-B-4	SE 1/4 Sec. 35-T1N-R73W 800 ft. East of 903+00 60,000 Cu.Yds.	13,696 5,748	707+70 to 858+20 858+20 to 921+35.9	19,520 0
TOTAL		71,516		73,070

DETAIL OF DIKE



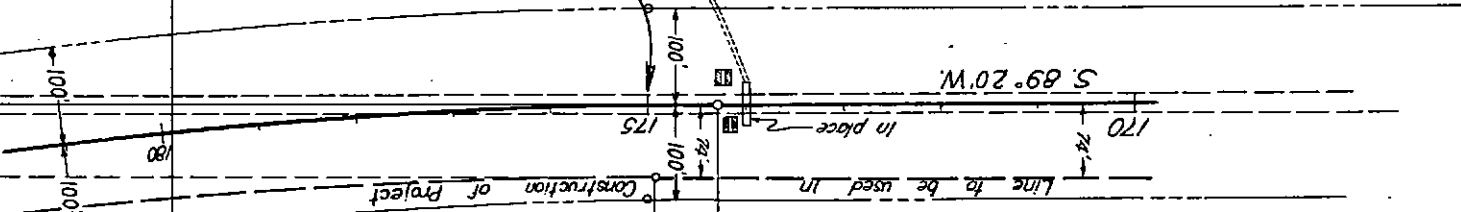
NOTE: Dikes as shown are to be constructed at locations given in the List of Structures and on the plans.

FED. ROAD DIST. NO.	STATE	AW PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	9	

Sta. 180+00, Req'd - 100 Cu. Yds. Embkt. for Approach on Rt.

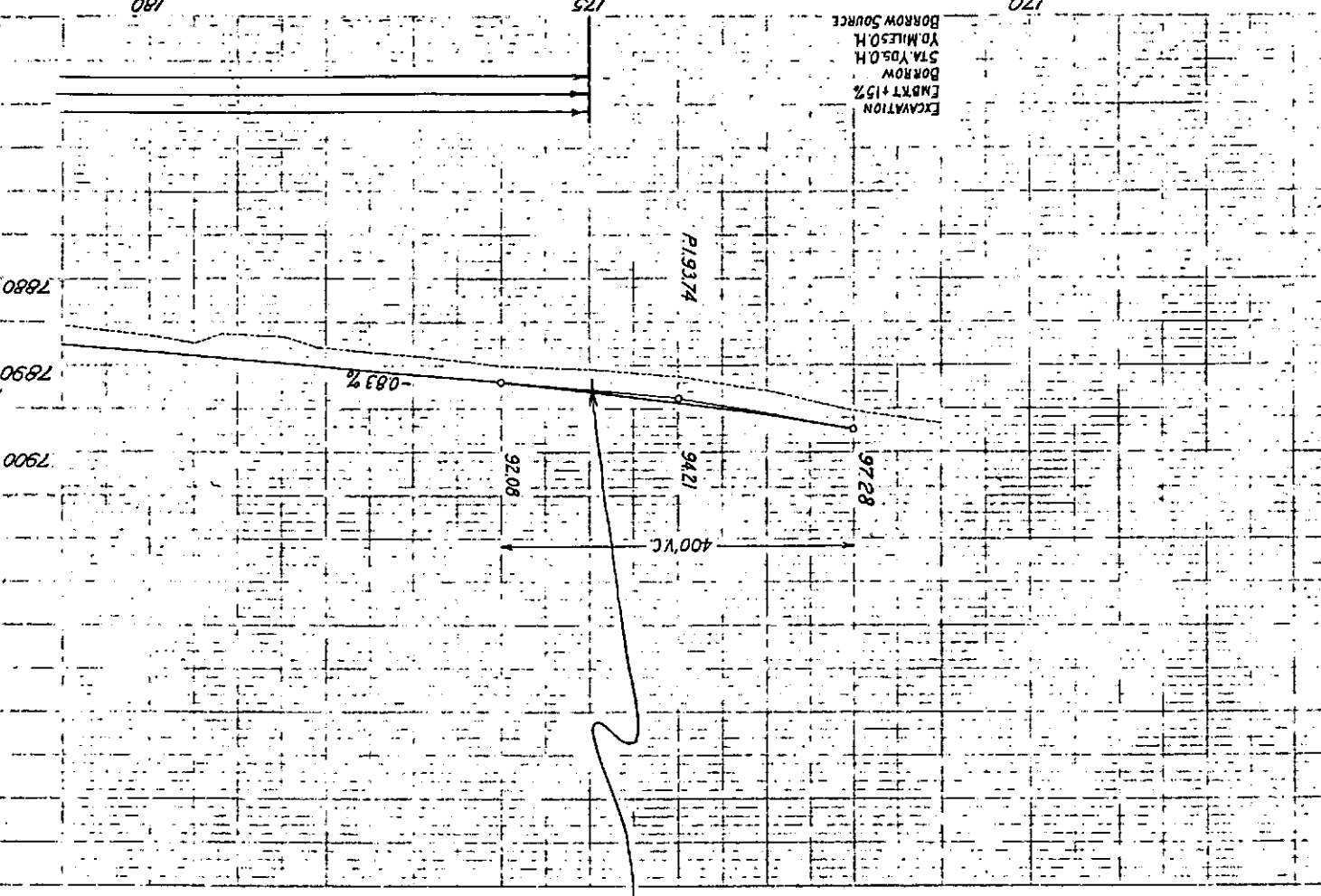
Sta. 175+00 - Req'd Project Marker
 Rev. PC 174+94.5

Sta. 174+301 P.C.



All Pole Lines encroaching on construction are to be moved by owners.
 Fencing, Gates and R.O.W. Markers are tabulated on Sheet No. 2
 Alignment and Grades shown on plans are subject to modification during construction.
 All details for dikes are shown on Sheet No. 2.

N.W. 1/4 Sec. 29
 T. 3 N. R. 72 W.

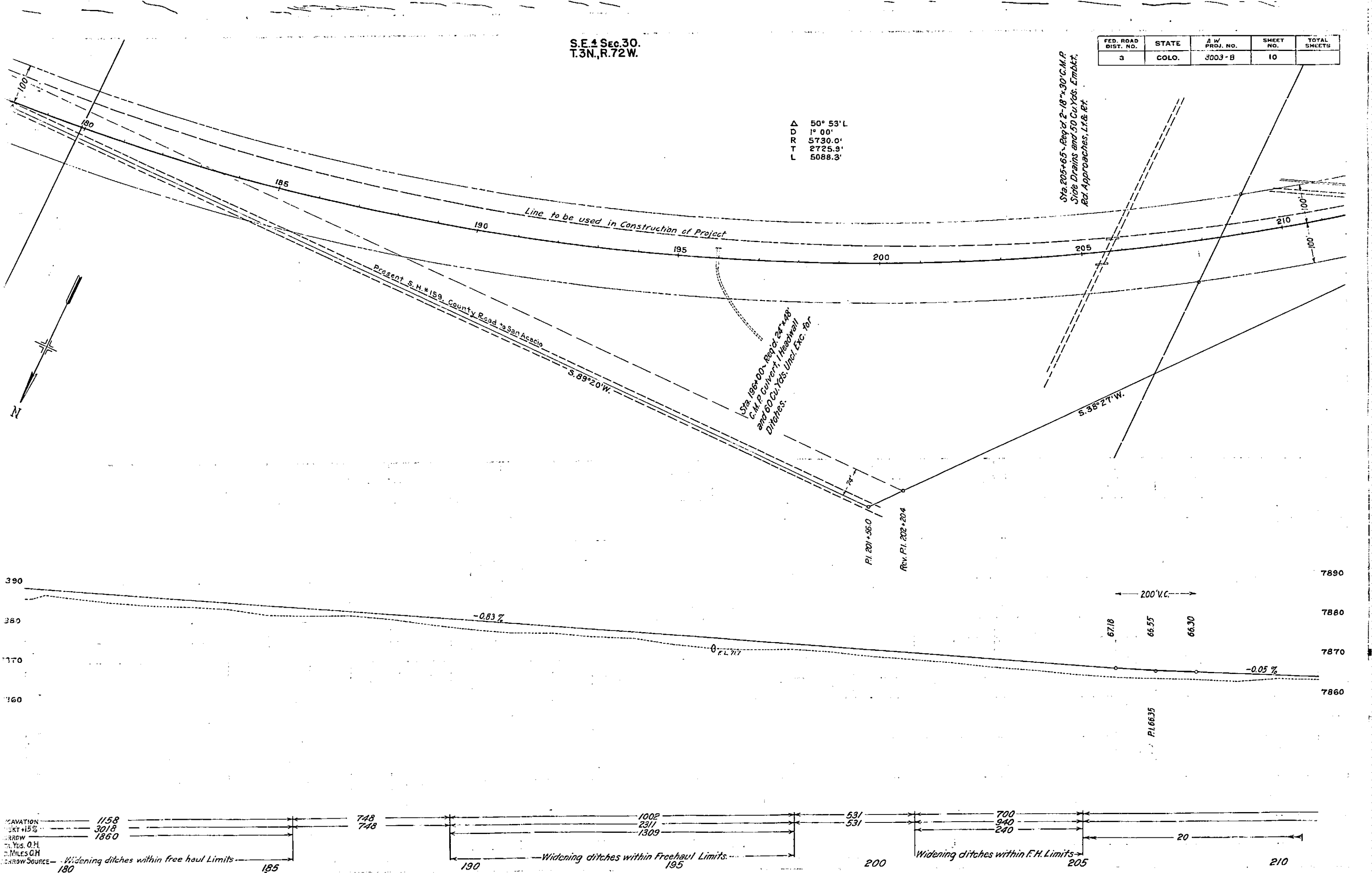


S.E. 1 Sec. 30.
T.3N., R.72W.

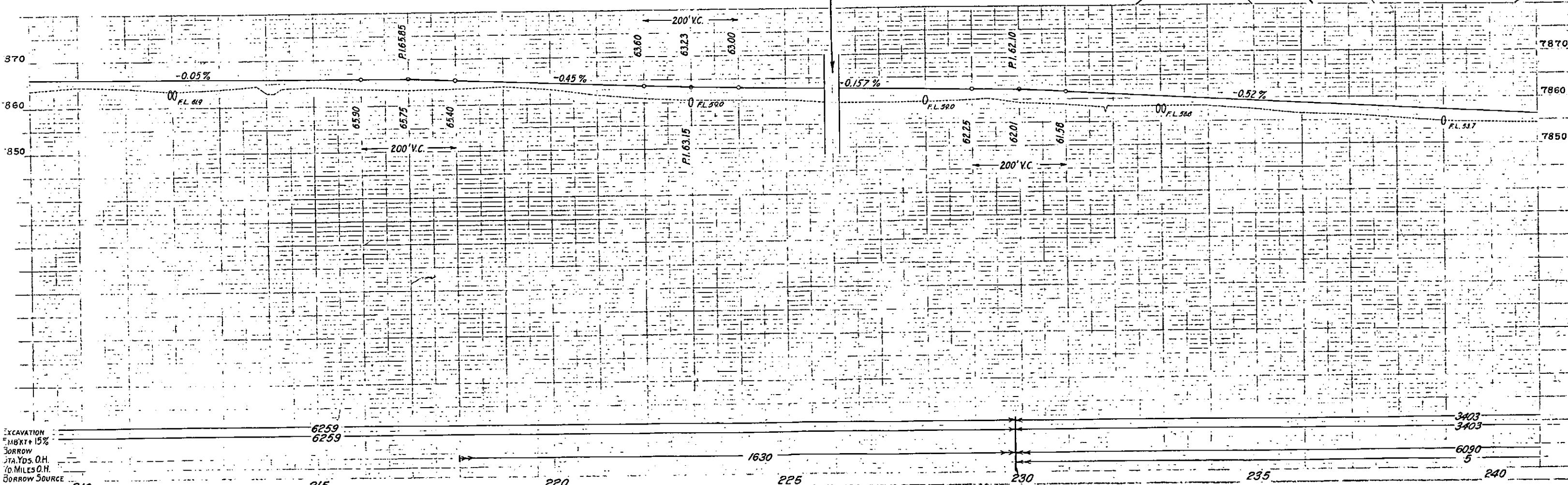
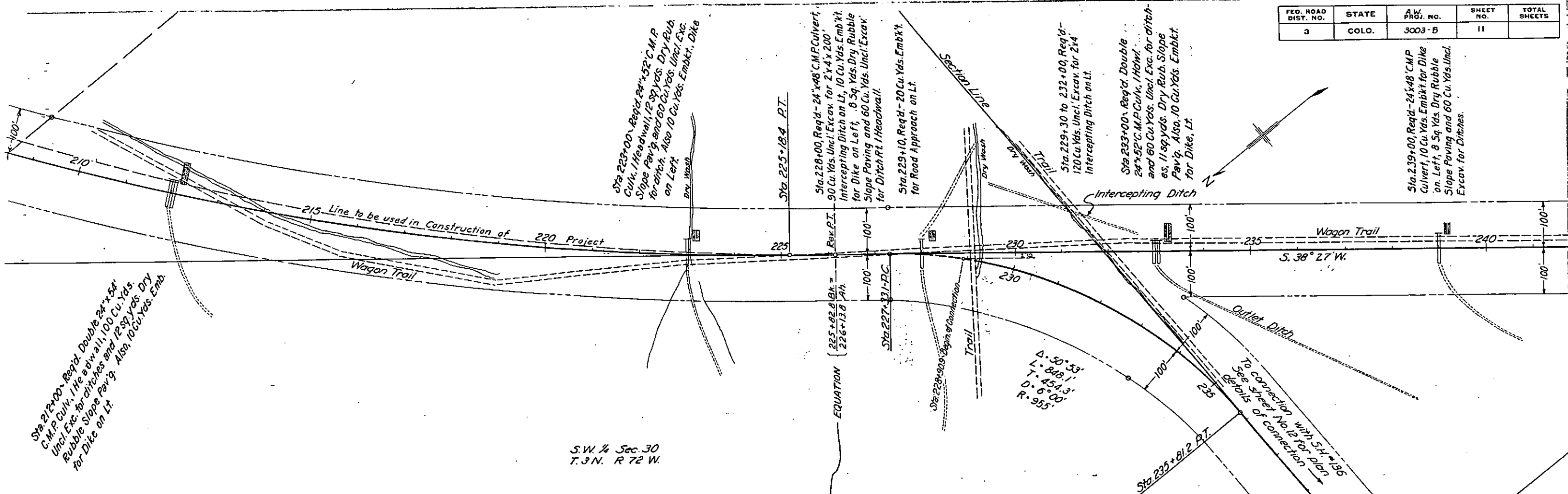
FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	10	

Δ 50° 53' L
D 1° 00'
R 5730.0'
T 2725.9'
L 5088.3'

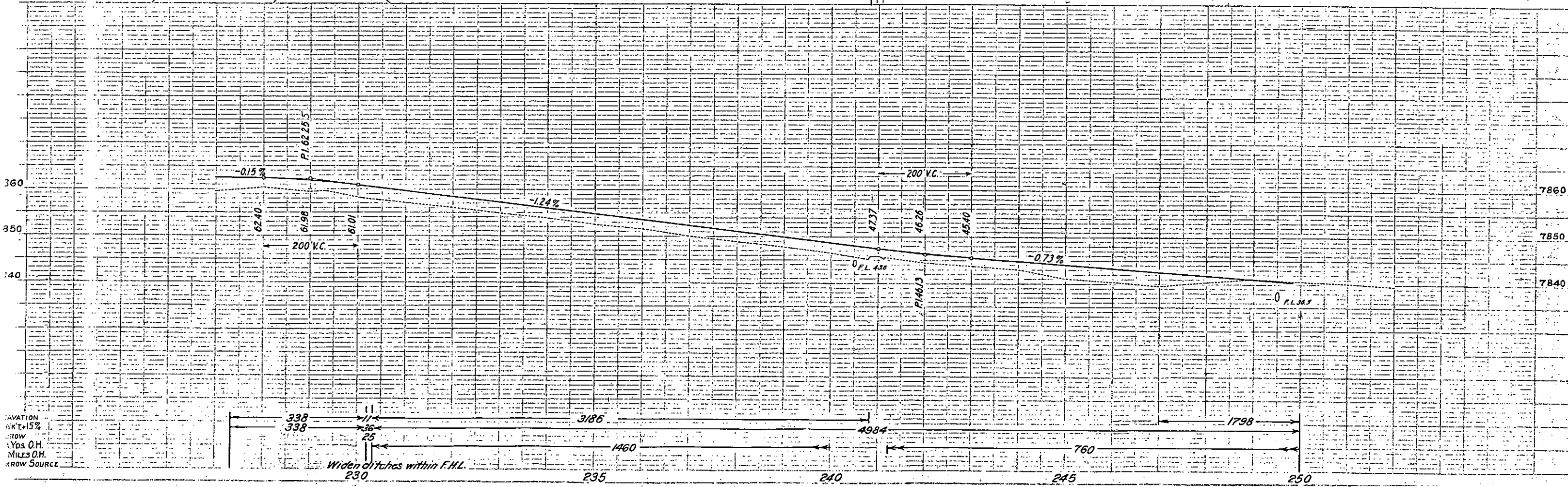
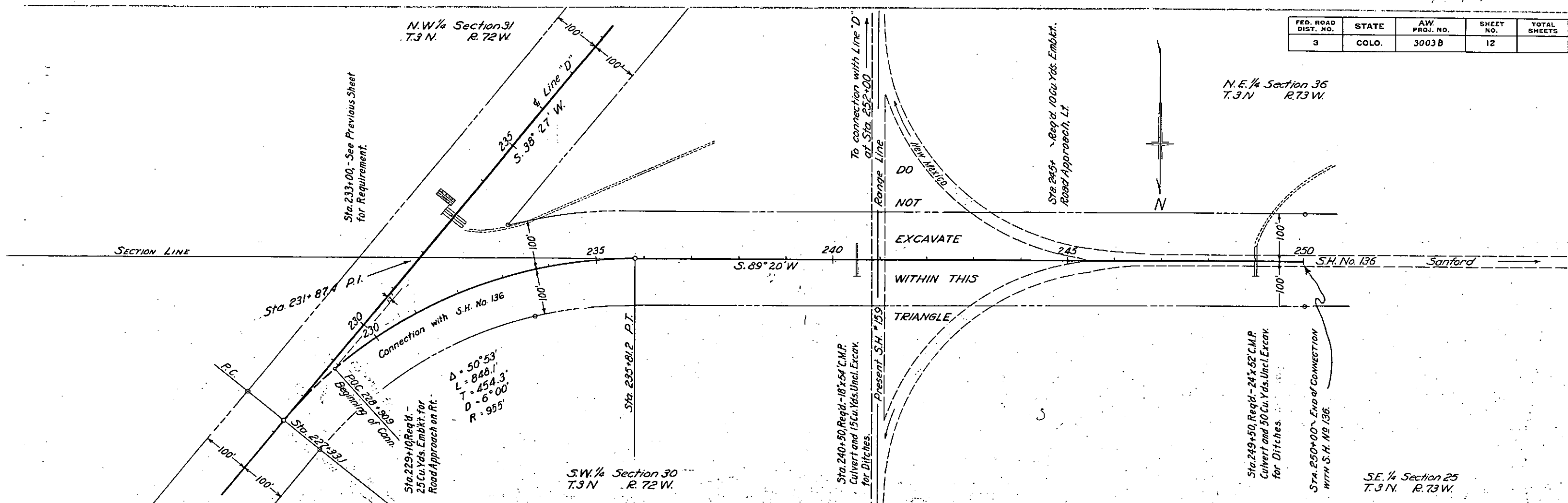
Sta. 205+65 - Beg'd 2-18" x 30' C.M.P.
Side Drains and 50 Cu Yds. Emb't.
Bd. Approaches, Lt. & Rt.



FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	11	



FED. ROAD DIST. NO.	STATE	AW. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003B	12	



AVATION
OKT. 15%
ROW
Yds. O.H.
MILES O.H.
ROW SOURCE

N.W. 1/4 Section 31
T.3N. R.72W.

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	13	

Sta. 270+00 ~ Reg'd. 24"x46"
C.M.P. Culv. and 90 Cu. Yds.
Uncl. Exc. for Ditches.

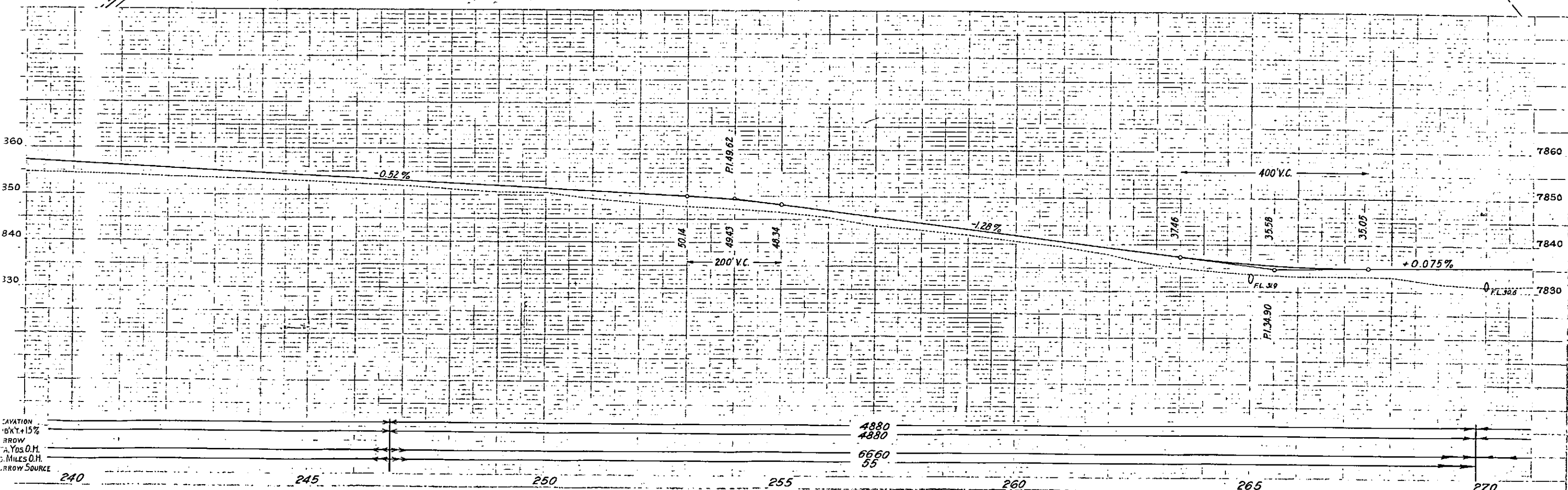
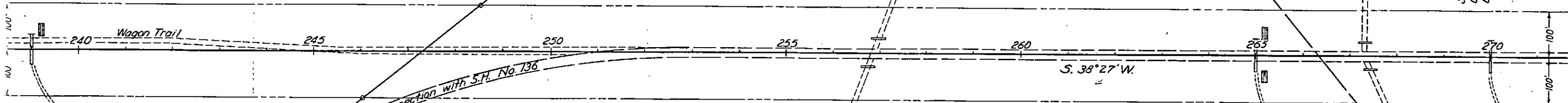
Sta. 267+35, Reg'd. 2' 18"x30" C.M.P.
Side Drains and 40 Cu. Yds. Embk't.
for Road Approaches Lt. & Rt.

Sta. 265+00, Reg'd. 24"x44" C.M.P. Culvert,
10 Cu. Yds. Embk't. for Dikes Lt. and Rt.,
12 Sq. Yds. Dry Rubble Slope Paving
and 90 Cu. Yds. Uncl. Excav. for
Ditches.

Sta. 256+85, Reg'd. 2' 18"x30" C.M.P.
Side Drains and 50 Cu. Yds. Embk't.
for Road Approaches Lt. and Rt.

Sta. 252+00, Reg'd. 200 Cu. Yds. Embk't.
for Approach on Rt.

N.E. 1/4 Section 36
T.3 N. R. 73 W.



Sta 270+00, -See Previous Sheet for Requirements.

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003B	14	

Township 37 N.
Range 73 W.

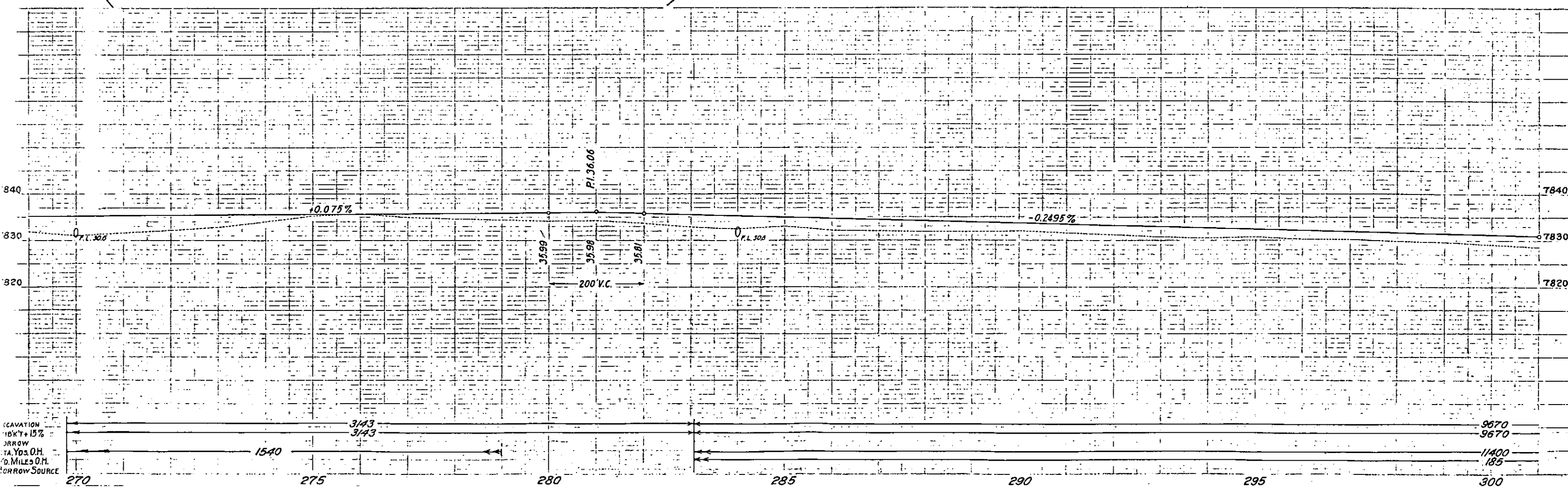
Sta 284+00, Req'd - 24' x 52' C.M.P. Culvert,
10 Cu. Yds. Embk't for Dike on Left,
8 Sq. Yds. Dry Rubble Slope Paving and
60 Cu. Yds. Incl. Excav. for Outlet Ditch
400' long.

Sta 284+80, Req'd - 50 Cu. Yds. Embk't
for Road Approaches Lt. and Rt.

Trail

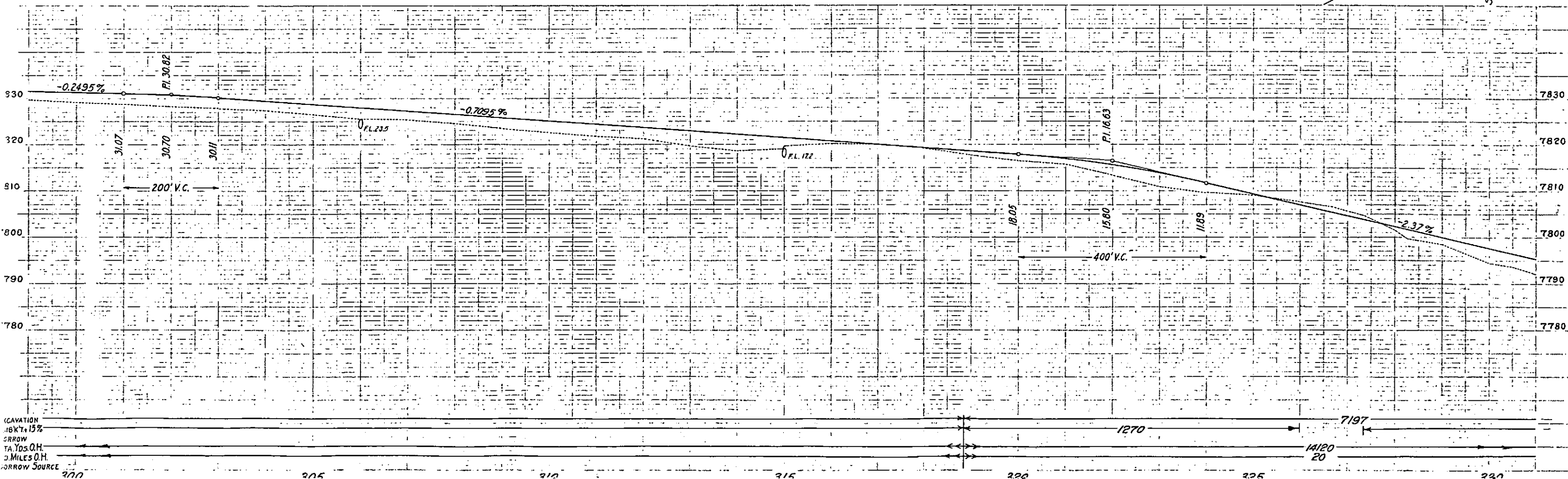
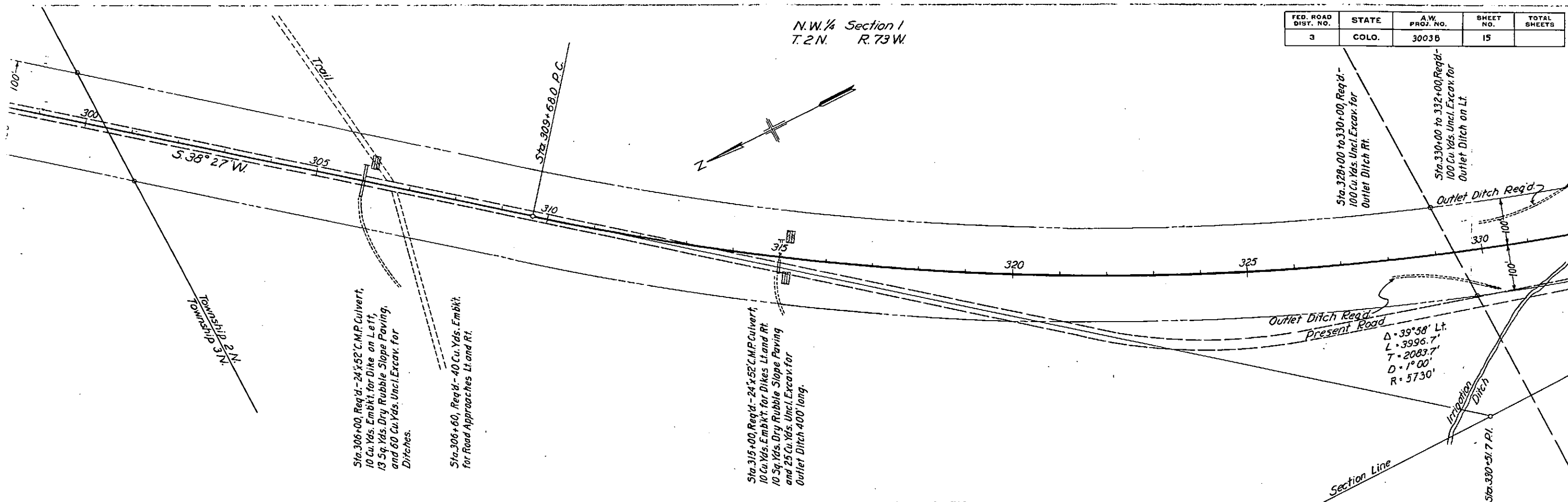
S.W. 1/4 Section 36
T.3 N. R.73 W.

S.E. 1/4 Section 36
T.3 N. R.73 W.



N.W. 1/4 Section 1
T. 2 N. R. 73 W.

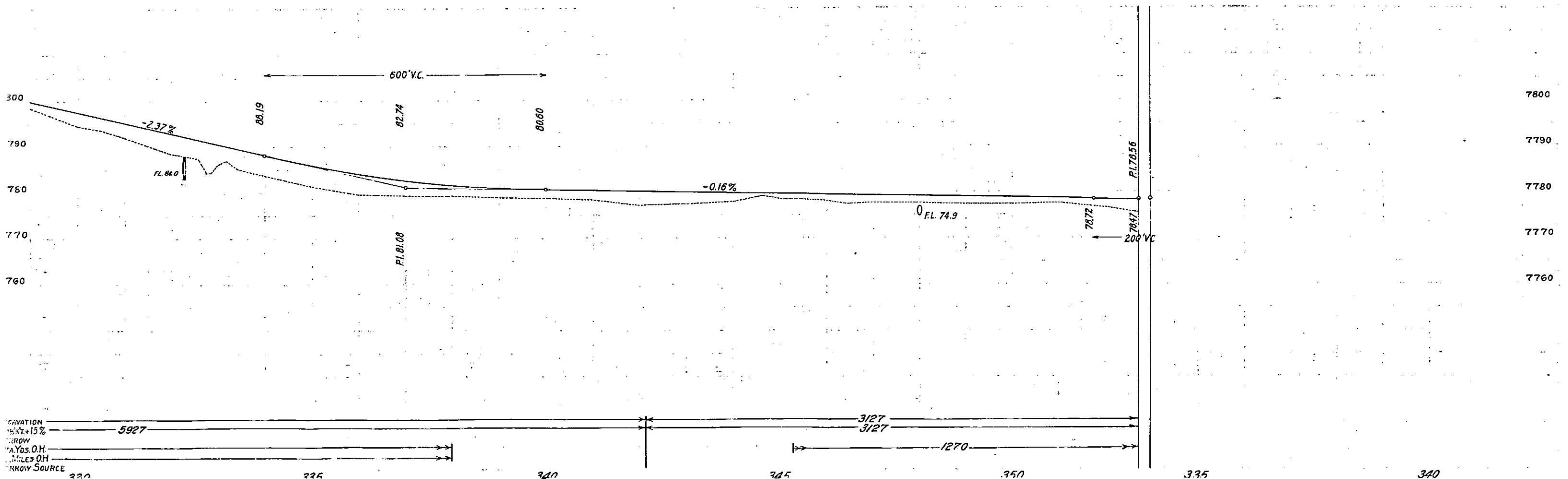
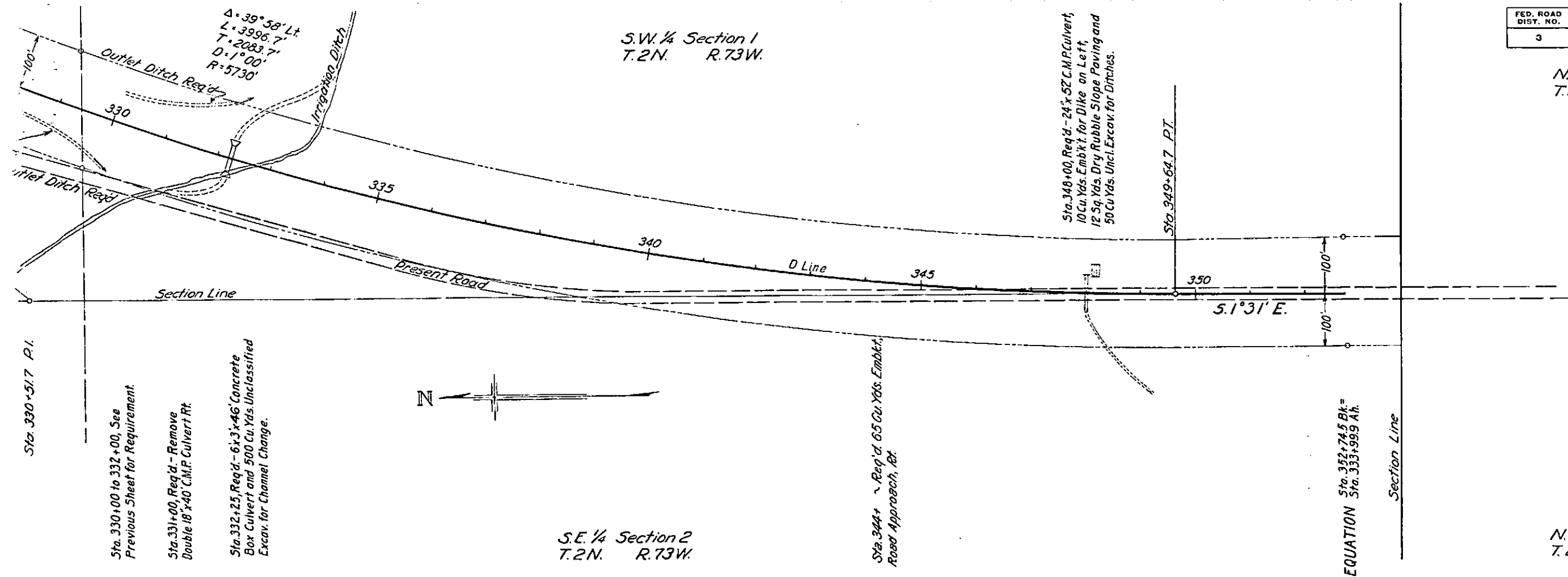
FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	30038	15	



FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003B	16	

N.W. 1/4 Section 12
T.2N. R.73W.

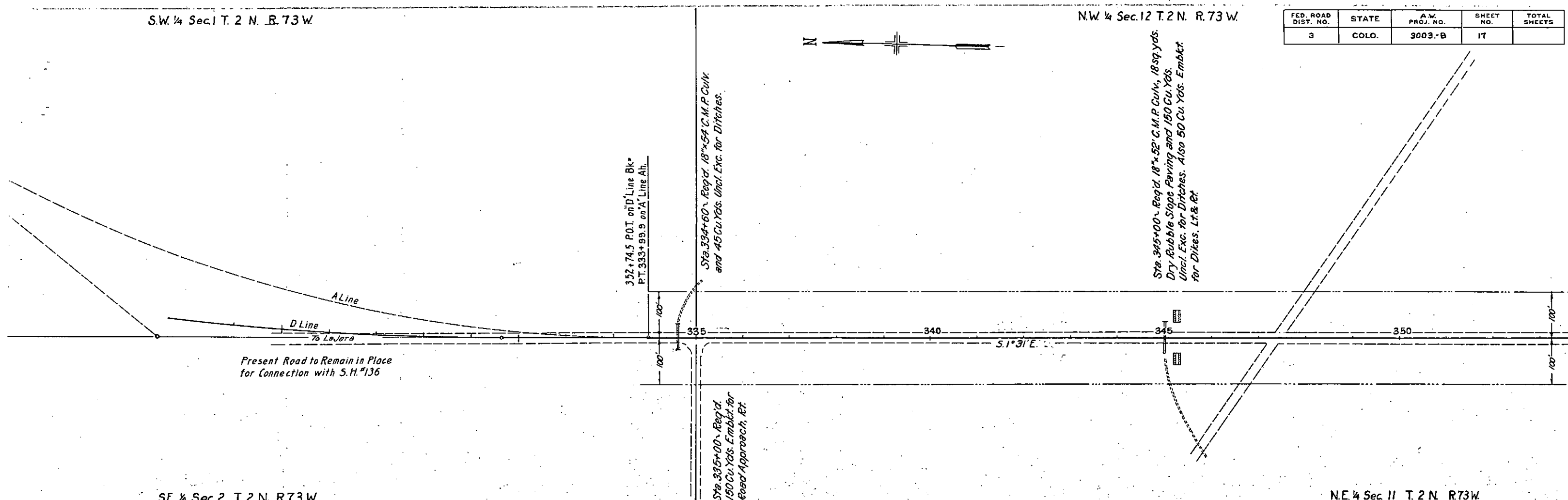
N.E. 1/4 Section 11
T.2N. R.73W.



S.W. 1/4 Sec. 1 T. 2 N. R. 73 W.

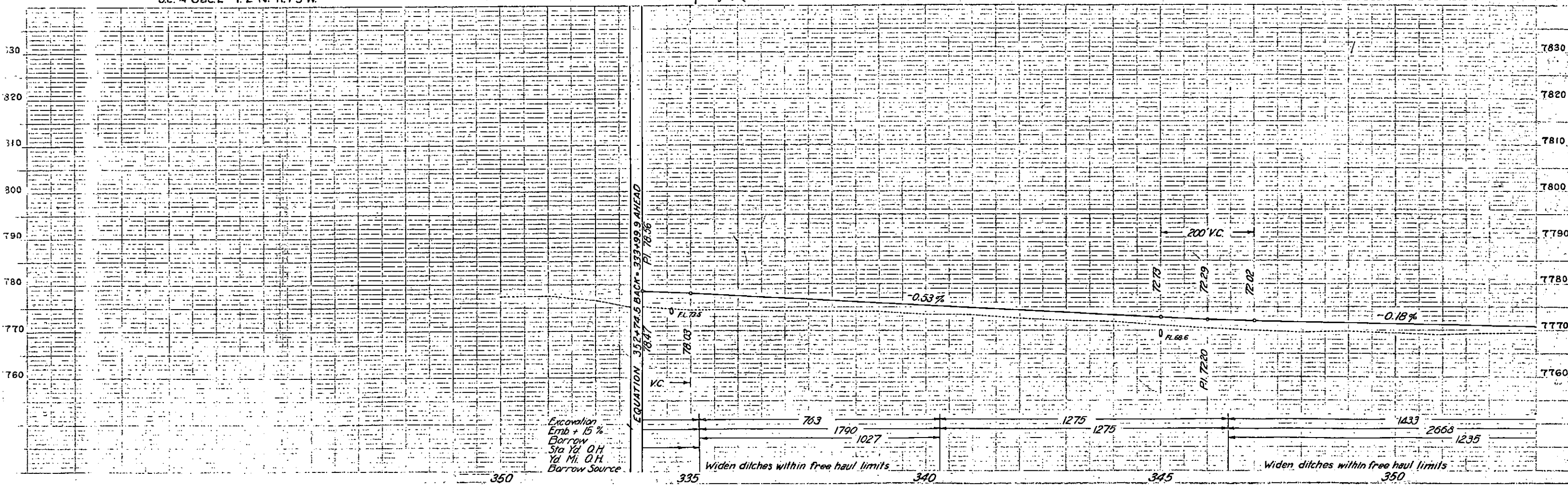
N.W. 1/4 Sec. 12 T. 2 N. R. 73 W.

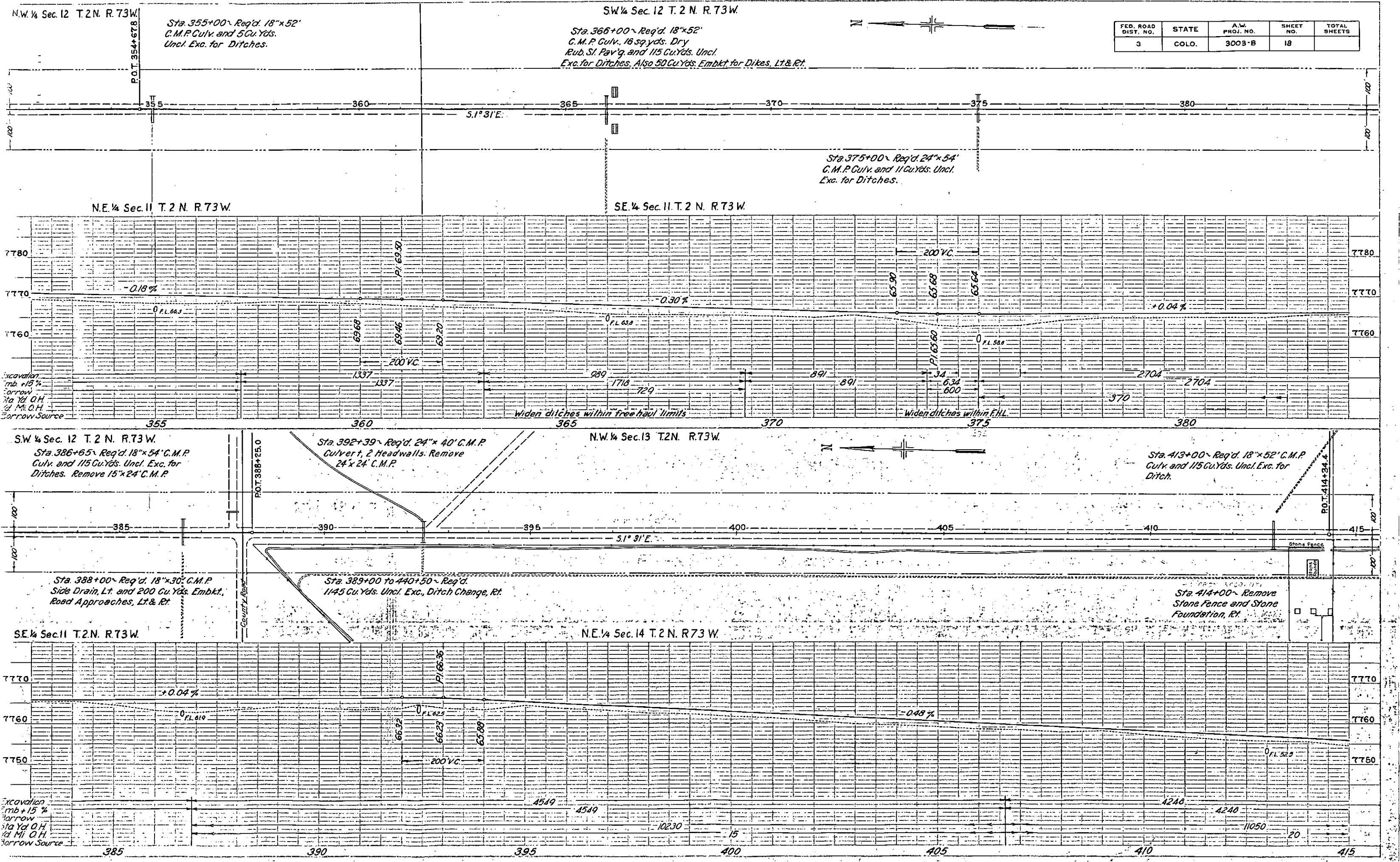
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3	COLO.	3003-B	17	

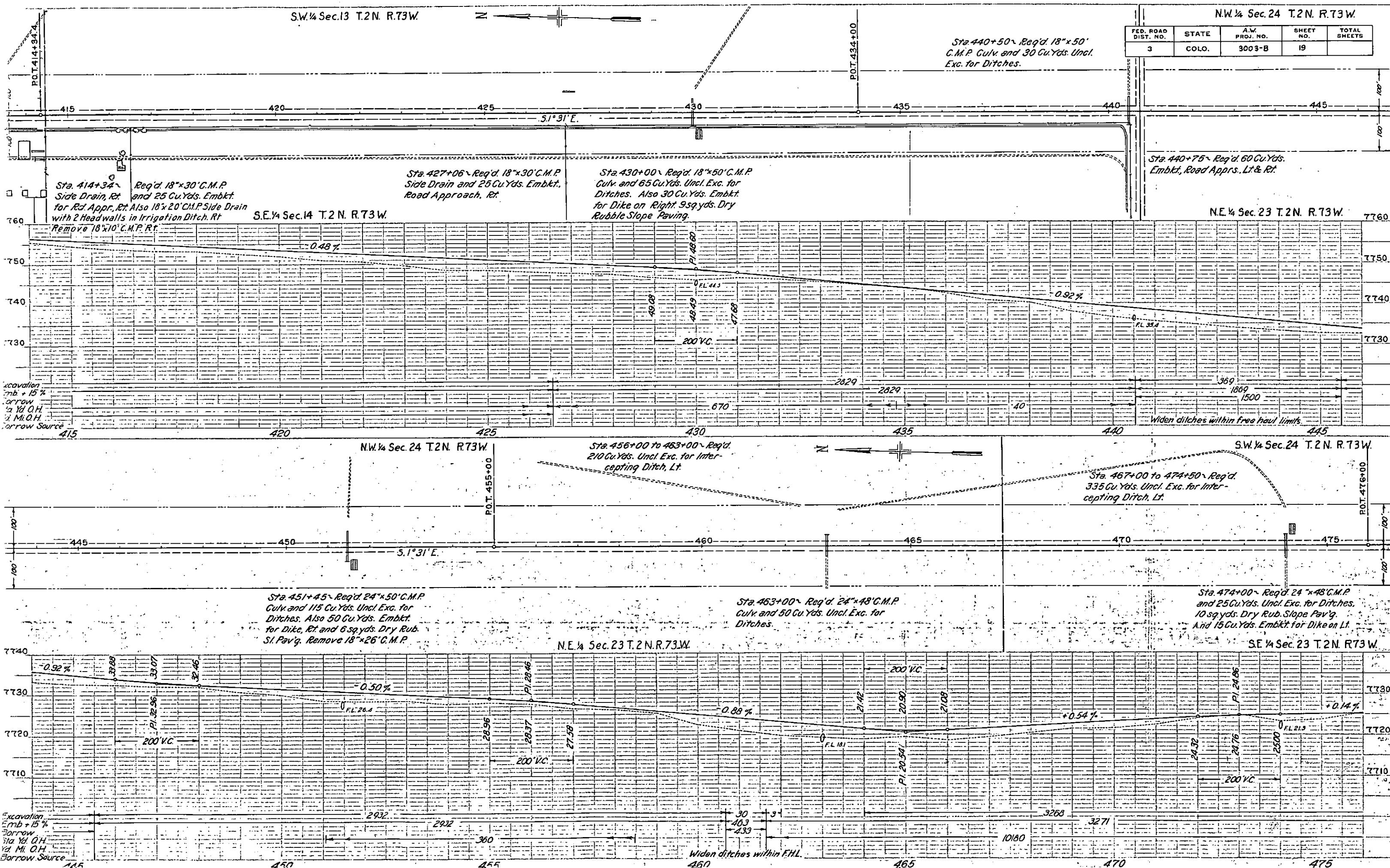


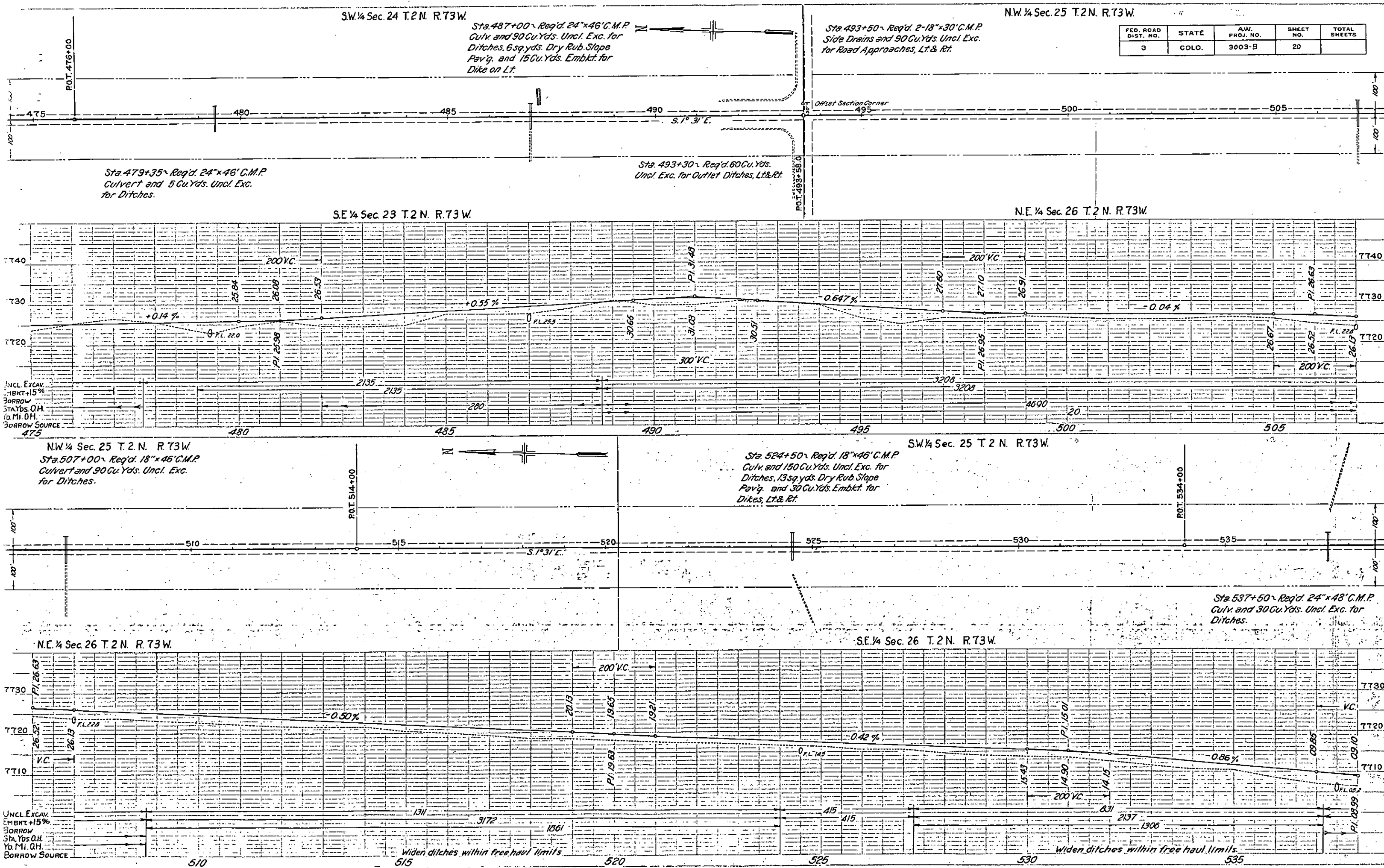
S.E. 1/4 Sec. 2 T. 2 N. R. 73 W.

N.E. 1/4 Sec. 11 T. 2 N. R. 73 W.









FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	20	

SW 1/4 Sec. 25 T.2N. R.73W.

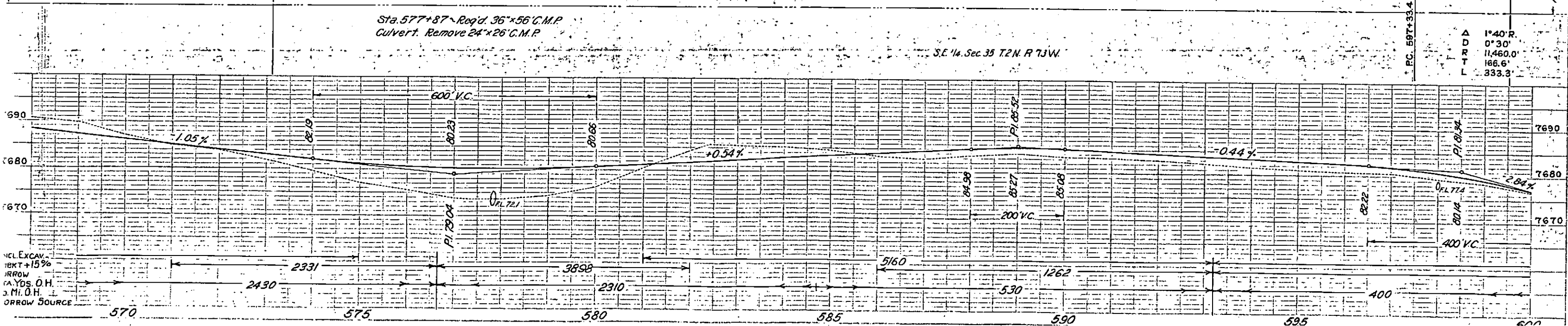
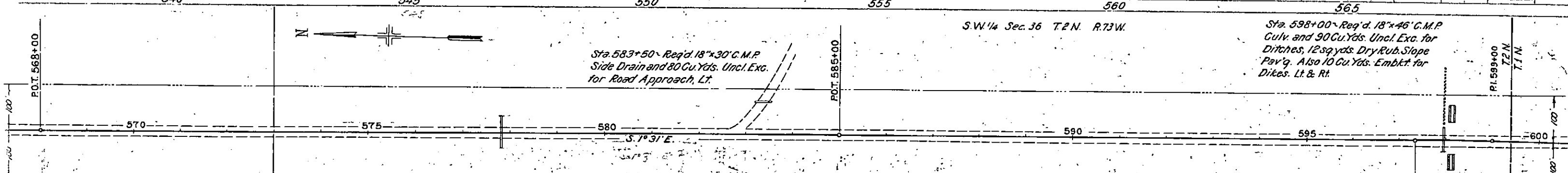
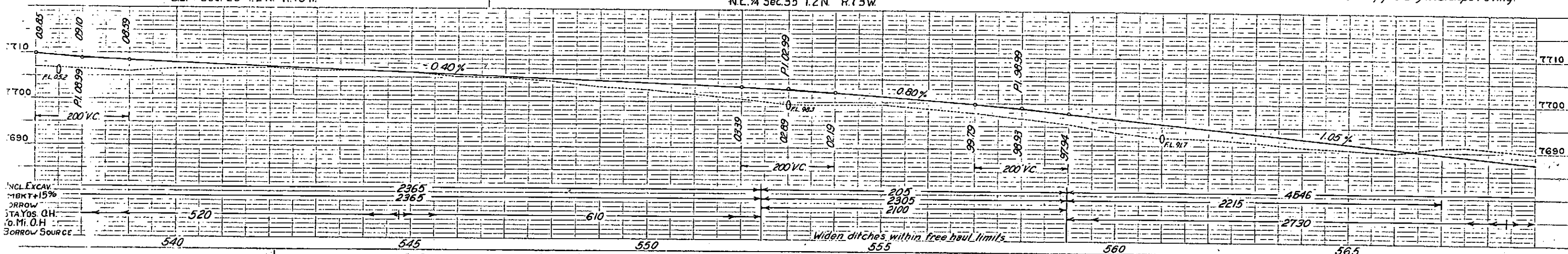
NW 1/4 Sec. 36 T.2N. R.73W.
Sta. 553+00 ~ Req'd. 24"x52'
C.M.P. Culvert and 25 Cu. Yds.
Uncl. Exc. for Ditches.

FED. ROAD DIST. NO.	STATE	AW. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	21	

Sta. 537+50 ~ See Previous
Sheet for Requirements.Sta. 546+55, Req'd. 2-18"x30" C.M.P.
Side Drains and 10 Cu. Yds. Uncl.
Excav. for Road Approaches Lt. & Rt.Sta. 561+00 ~ Req'd. 24"x50" C.M.P.
Culvert and 15 Cu. Yds. Uncl. Exc. for
Ditches.Sta. 566+00 ~
Req'd. 75 Cu. Yds. Uncl. Exc. for Ditches
and 30 Cu. Yds. Embkt. for Dikes, Lt. & Rt.
Also 17 sq. yds. Dry Rub. Slope Paving.

SE 1/4 Sec. 26 T.2N. R.73W.

NE 1/4 Sec. 35 T.2N. R.73W.

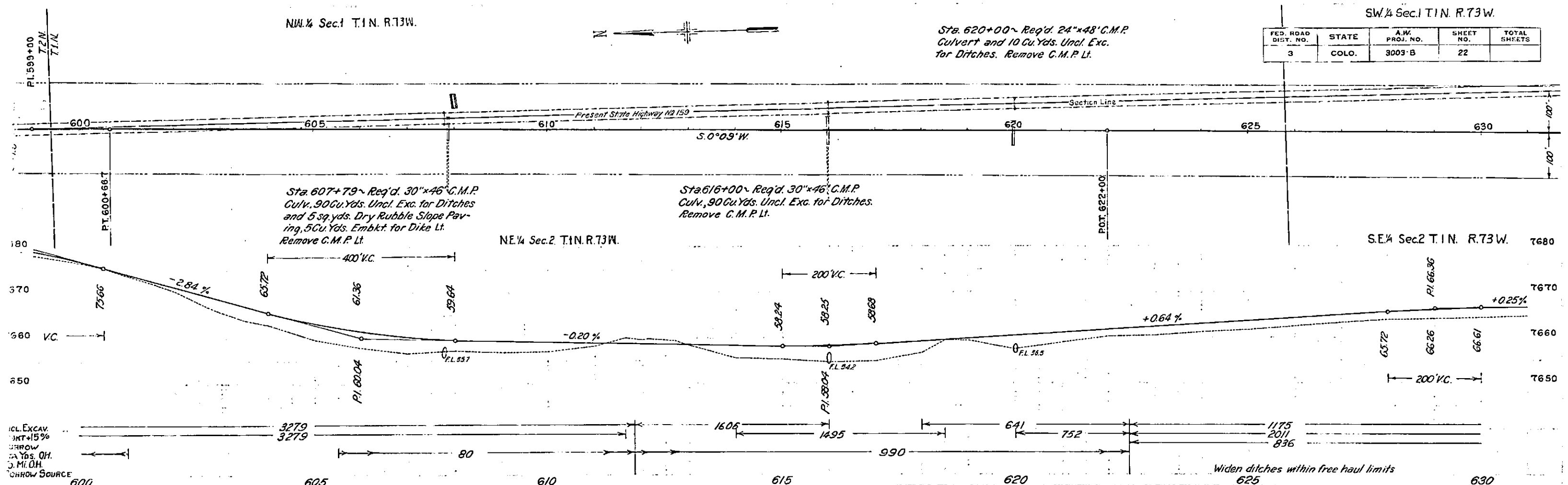


NW 1/4 Sec. 1 T. 1 N. R. 73 W.

SW 1/4 Sec. 1 T. 1 N. R. 73 W.

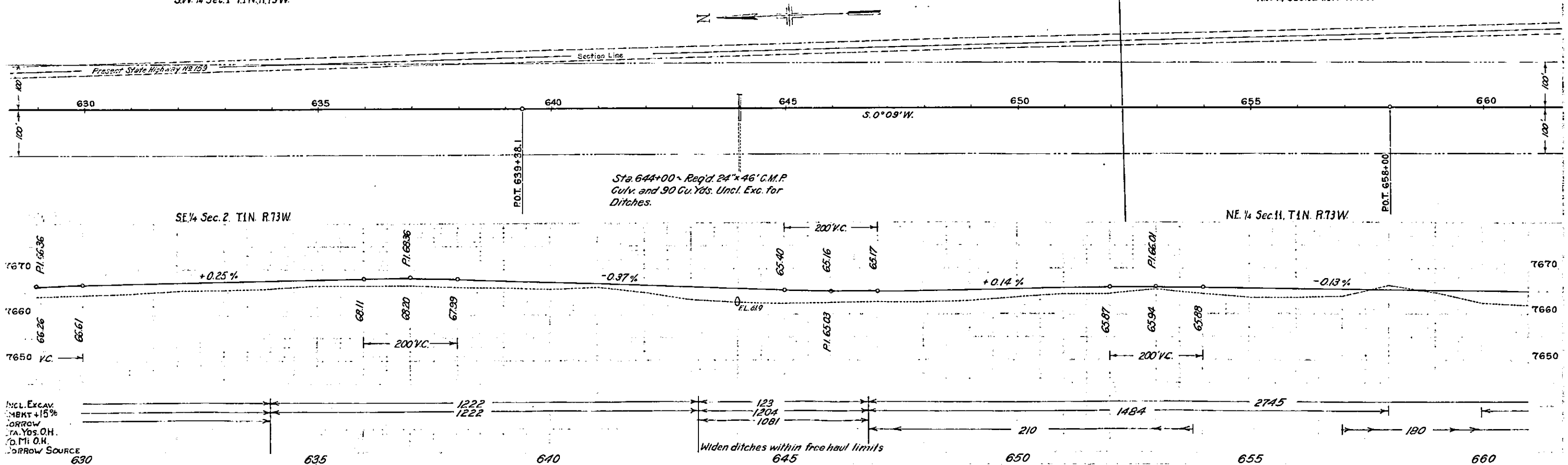
FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	22	

Sta. 620+00 ~ Req'd. 24"x48" C.M.P. Culvert and 10 Cu. Yds. Uncl. Exc. for Ditches. Remove C.M.P. Lt.



SW 1/4 Sec. 1 T. 1 N. R. 73 W.

NW 1/4 Sec. 12 T. 1 N. R. 73 W.



SE 1/4 Sec. 2 T. 1 N. R. 73 W.

NE 1/4 Sec. 11 T. 1 N. R. 73 W.

N.W. 1/4 Sec. 12
T.1N. R.73W.



FILE NO.	DIST. NO.	STATE	AW	PROJECT	SHEET	TOTAL SHEETS
3	COLO.	3003-B	23			

Sta. 676+80 ~ Req'd. 2'-18" x 30' C.M.P.
Side Drains and 20 Cu. Yds. Embkt.,
Road Approaches, Lt. & Rt.

Present State Highway No. 159

Sta. 663+50 ~ Req'd. 24" x 48'
C.M.P. Culv. and 30 Cu. Yds. Uncl.
Exc. for Ditches. Remove
18" x 26" C.M.P. Lt.

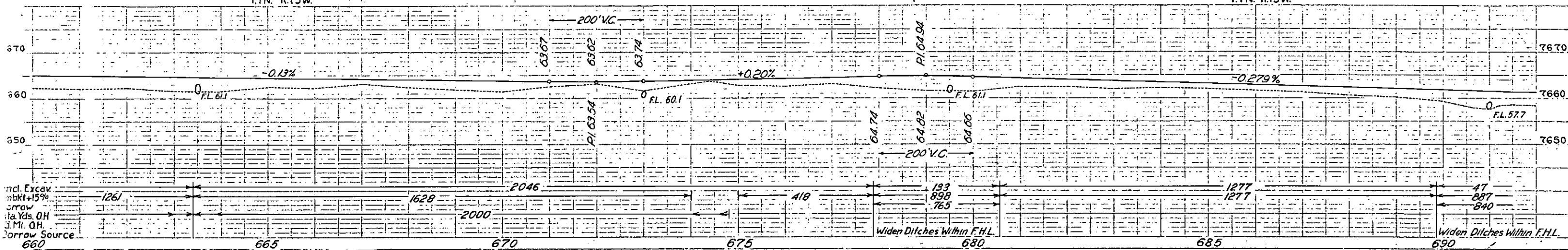
NE 1/4 Sec. 11
T.1N. R.73W.

Sta. 673+00 ~ Req'd. 18" x 46' C.M.P.
Culv. and 75 Cu. Yds. Uncl. Exc. for
Ditches.

Sta. 679+50 ~ Req'd. 18" x 48'
C.M.P. Culvert and 75 Cu. Yds.
Uncl. Exc. for Ditches.

Sta. 691+00 ~ Req'd. 18" x 50'
C.M.P. Culv. and 30 Cu. Yds.
Uncl. Exc. for Ditches.

SW 1/4 Sec. 11
T.1N. R.73W.



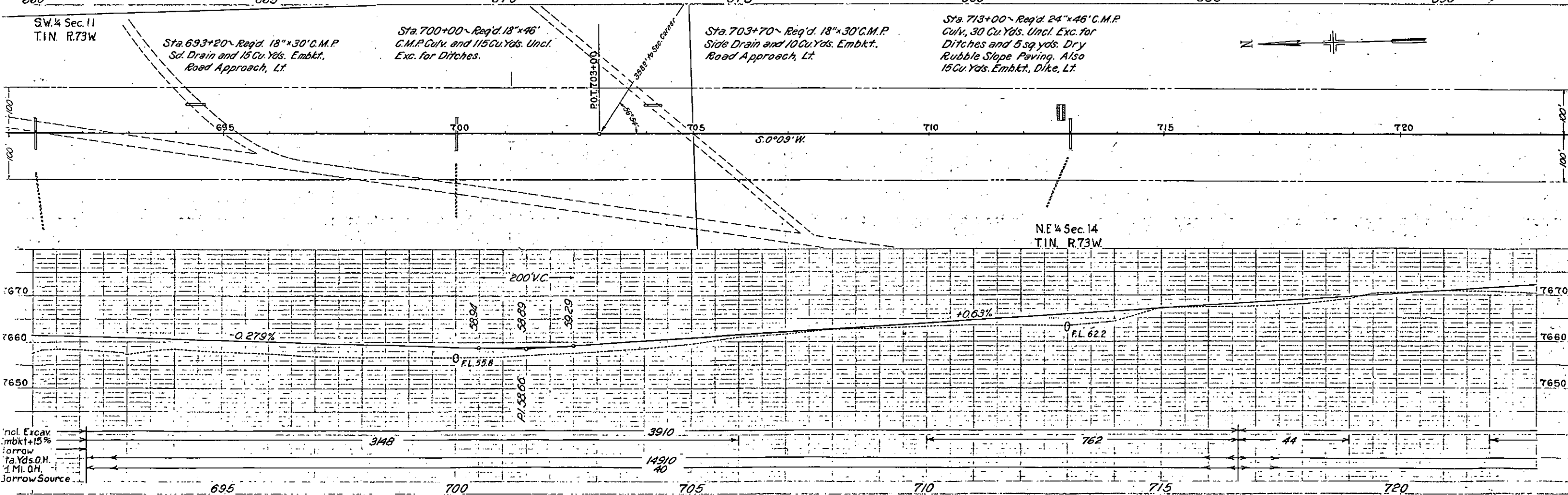
SW 1/4 Sec. 11
T.1N. R.73W.

Sta. 693+20 ~ Req'd. 18" x 30' C.M.P.
Side Drain and 15 Cu. Yds. Embkt.,
Road Approach, Lt.

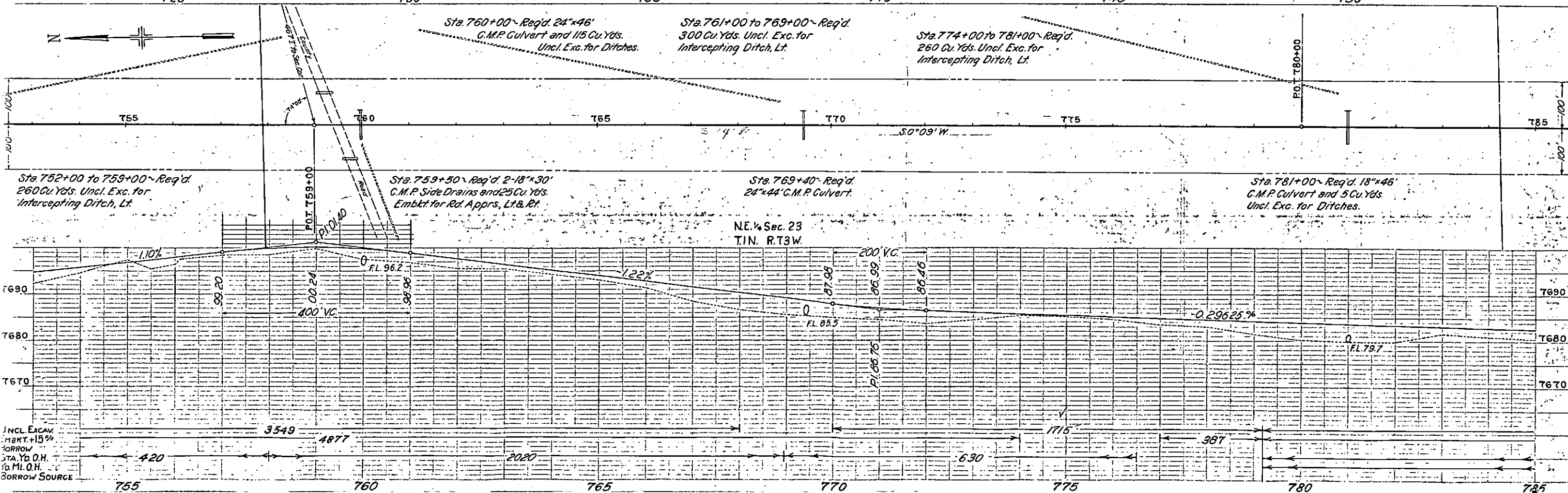
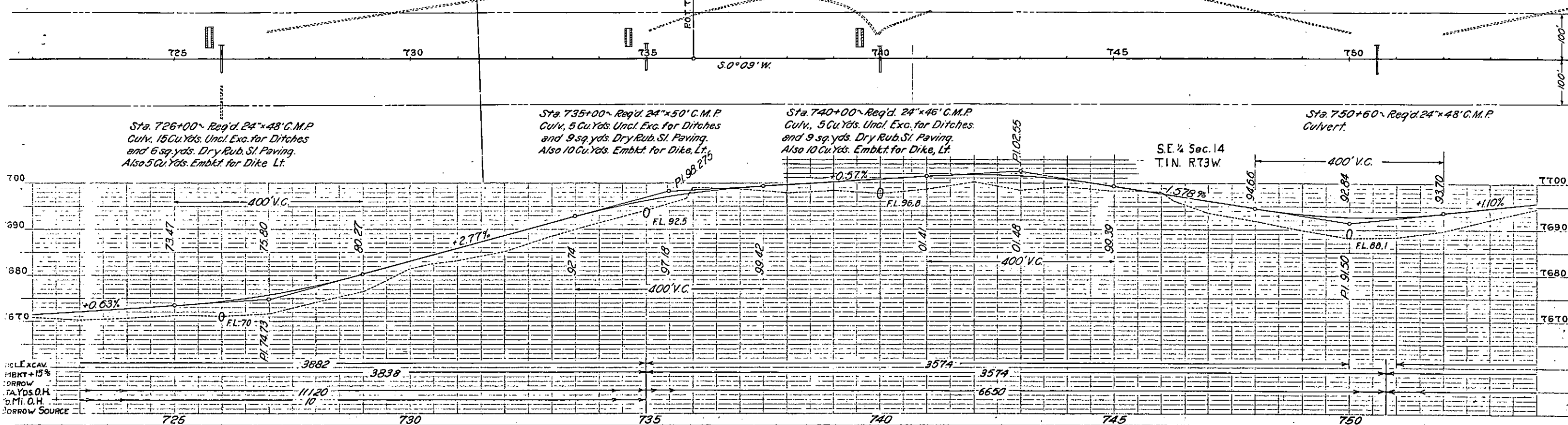
Sta. 700+00 ~ Req'd. 18" x 46'
C.M.P. Culv. and 115 Cu. Yds. Uncl.
Exc. for Ditches.

Sta. 703+70 ~ Req'd. 18" x 30' C.M.P.
Side Drain and 10 Cu. Yds. Embkt.,
Road Approach, Lt.

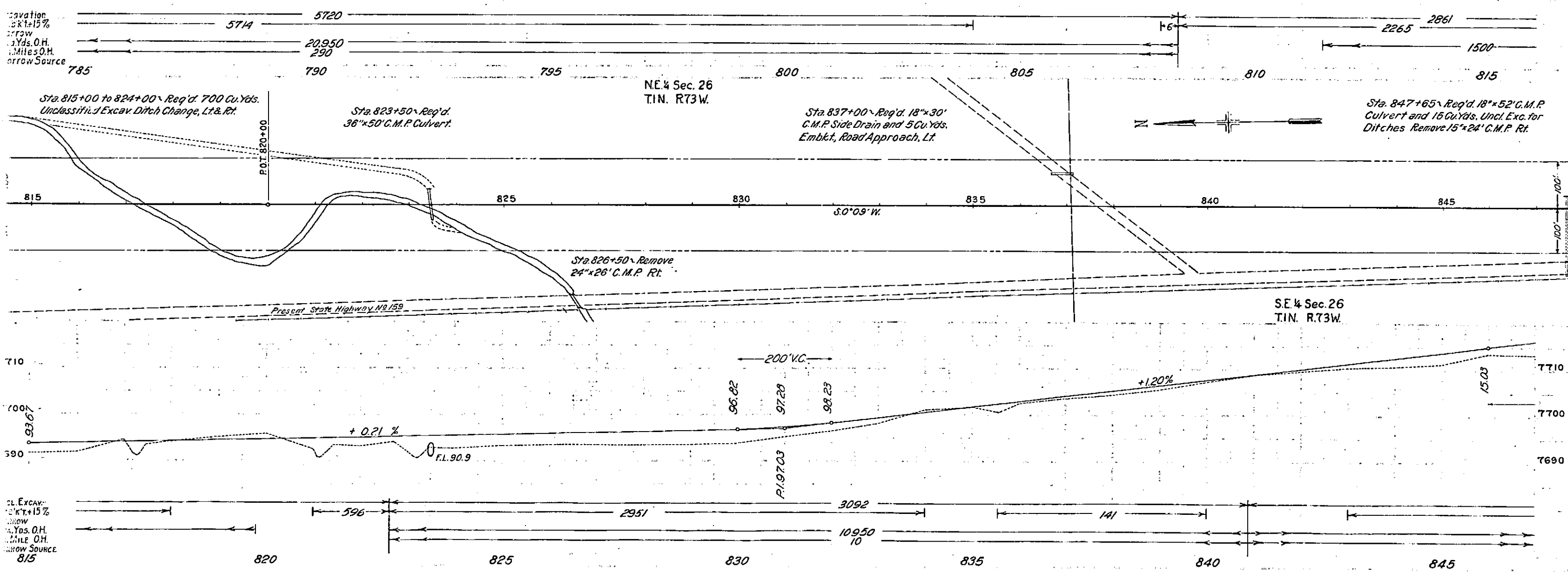
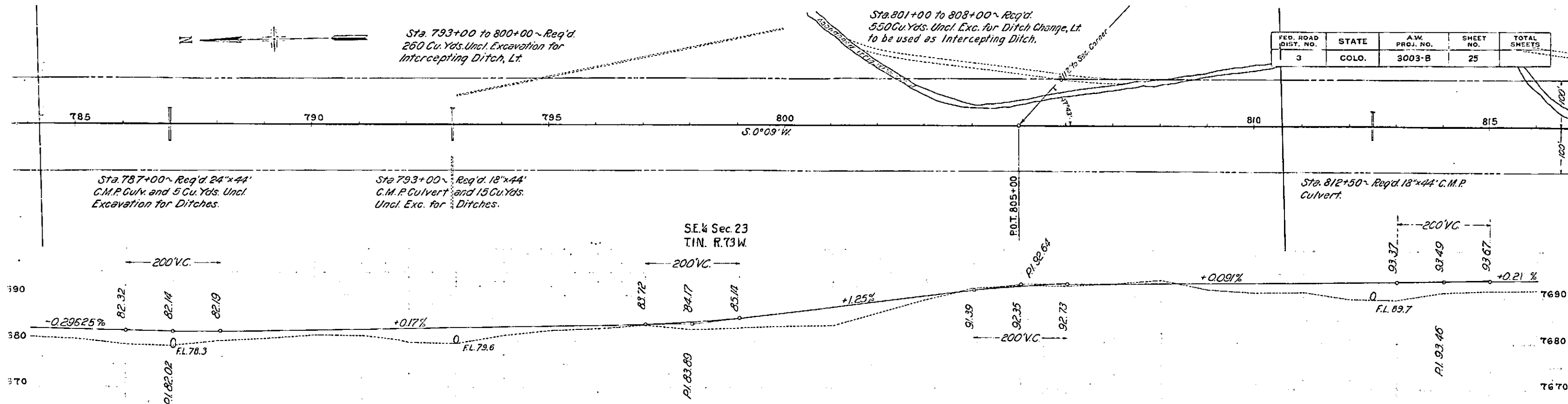
Sta. 713+00 ~ Req'd. 24" x 46' C.M.P.
Culv., 30 Cu. Yds. Uncl. Exc. for
Ditches and 5 sq. yds. Dry
Rubble Slope Paving. Also
15 Cu. Yds. Embkt., Dike, Lt.



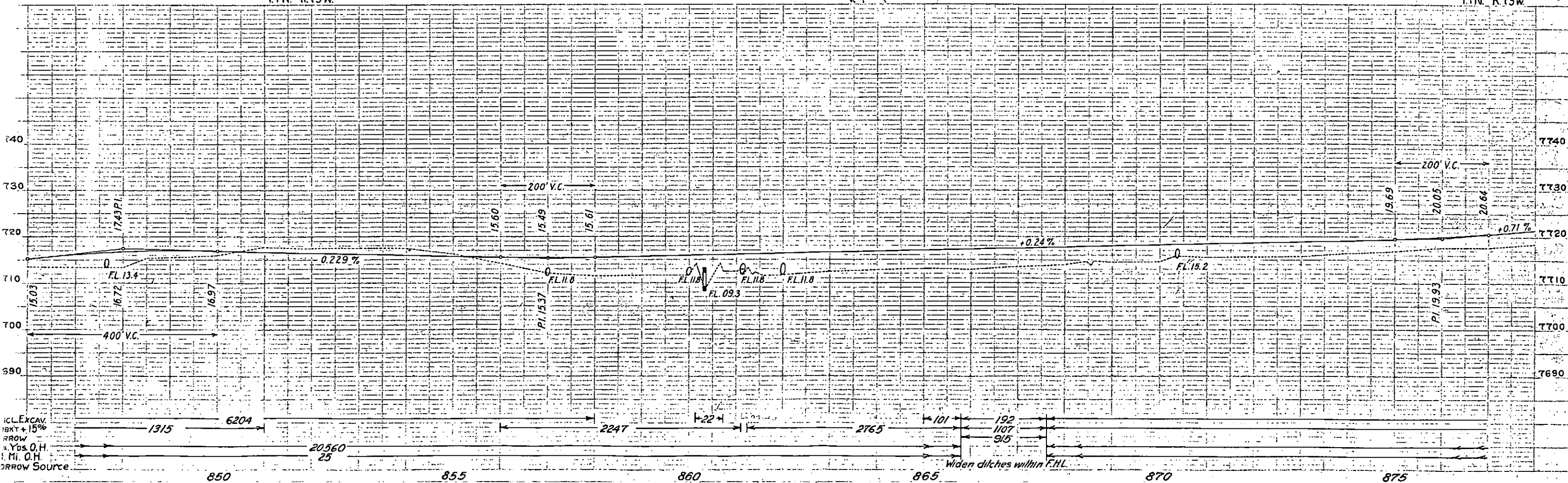
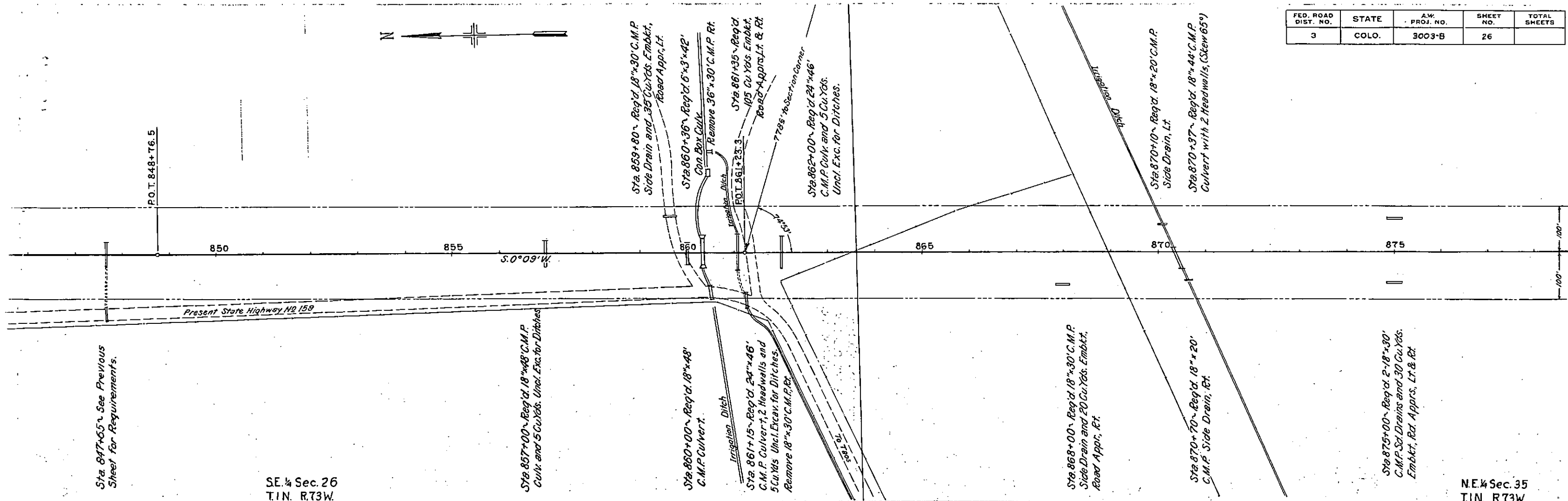
FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	24	



FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	25	



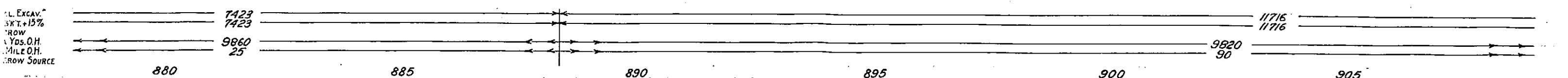
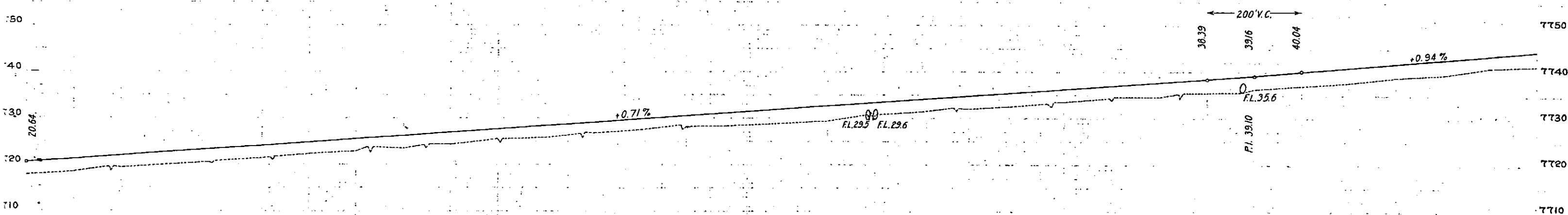
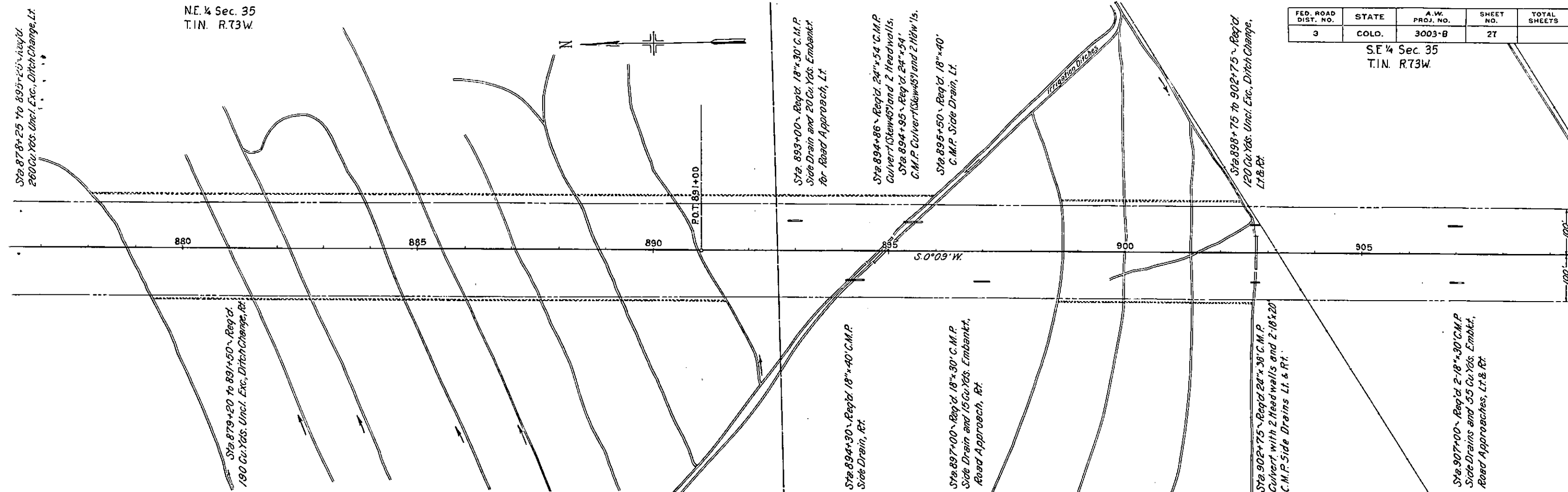
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3	COLO.	3003-B	26	



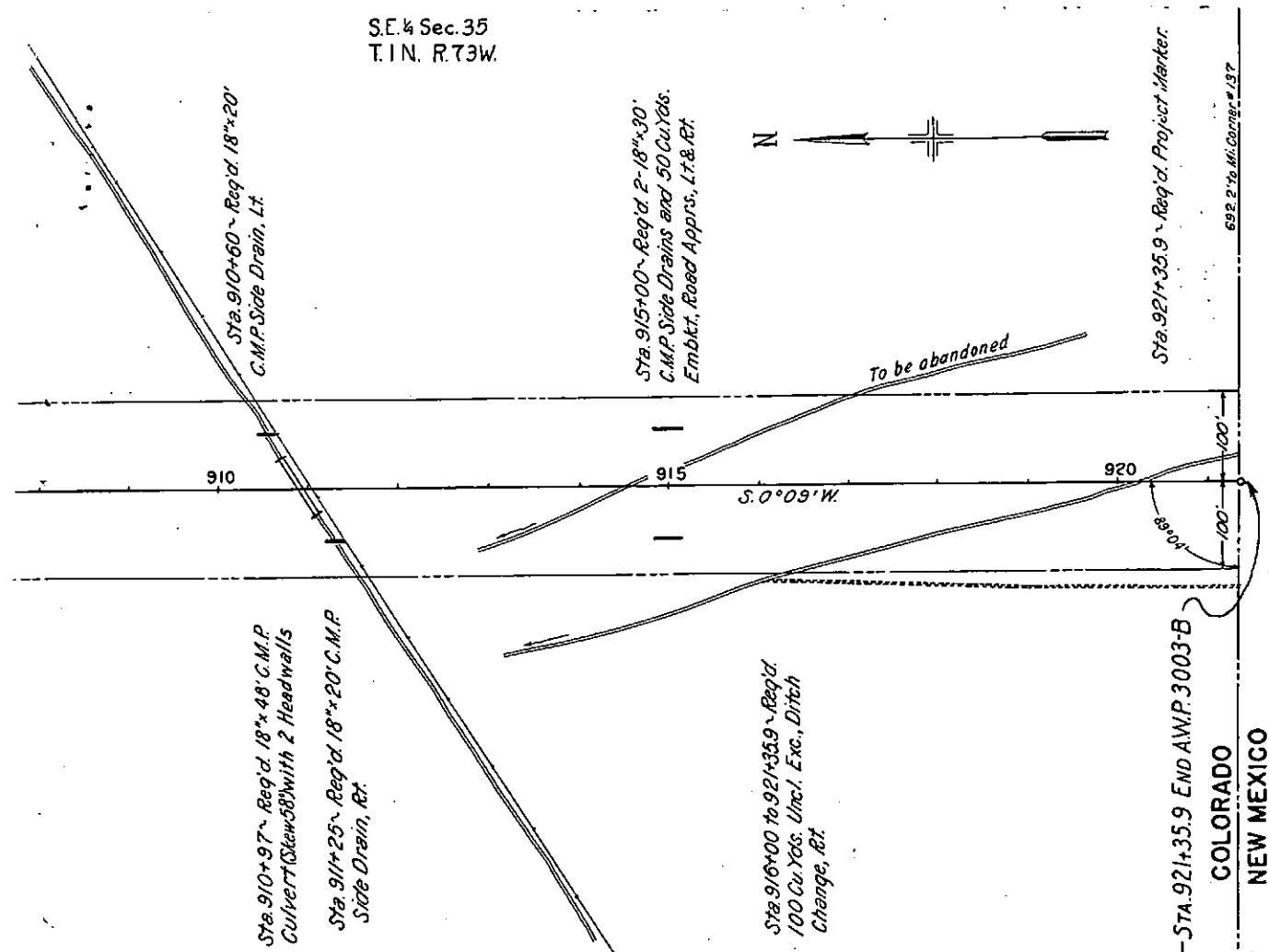
NE 1/4 Sec. 35
T.1N. R.73W.

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLD.	3003-B	27	

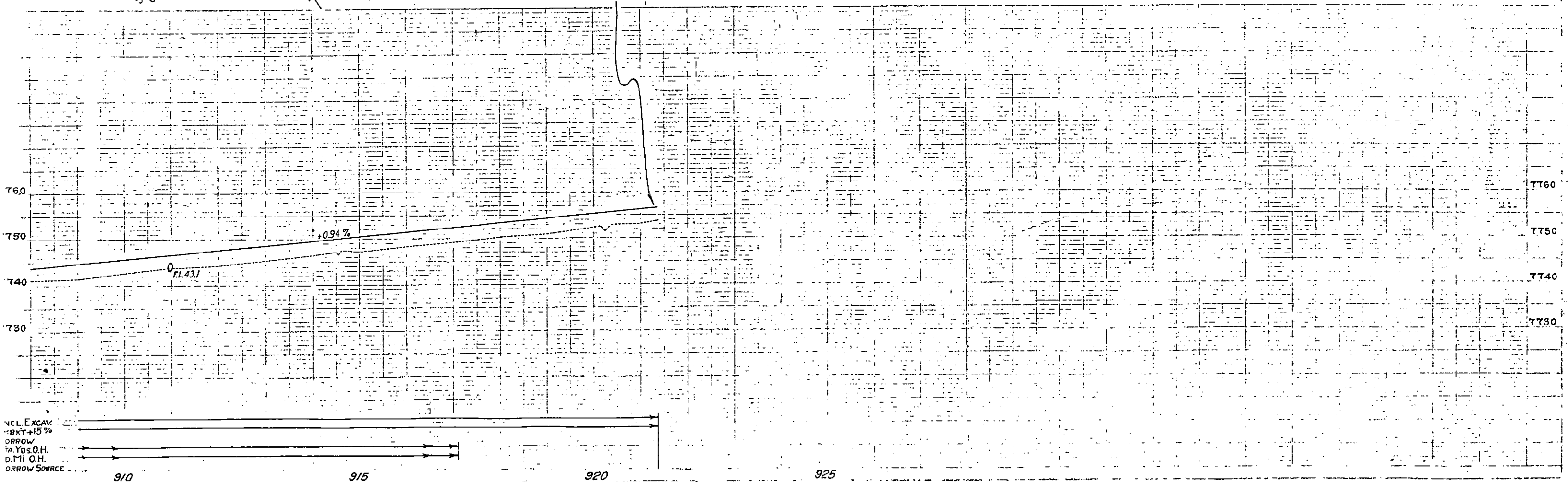
SE 1/4 Sec. 35
T.1N. R.73W.



SE 1/4 Sec. 35
T.1N. R.73W.



FED. ROAD DIST. NO.	STATE	AW. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	28	

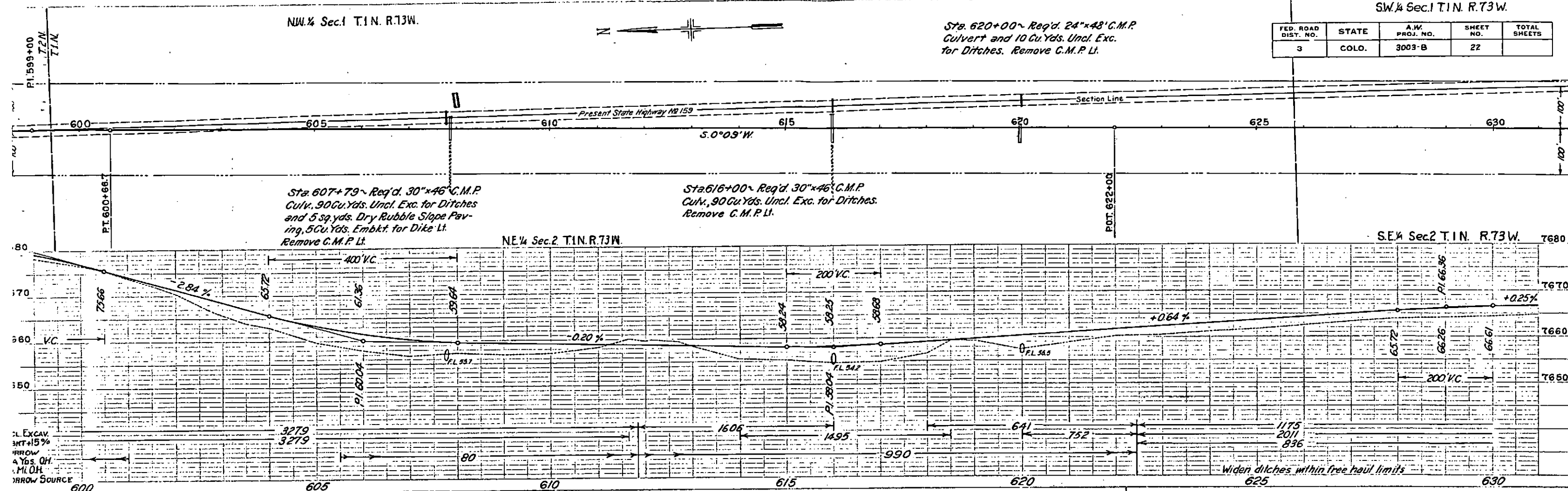


NW 1/4 Sec. 1 T. 1 N. R. 73 W.

Sta. 620+00 ~ Req'd. 24"x48" C.M.P.
Culvert and 10 Cu. Yds. Uncl. Exc.
for Ditches. Remove C.M.P. Lt.

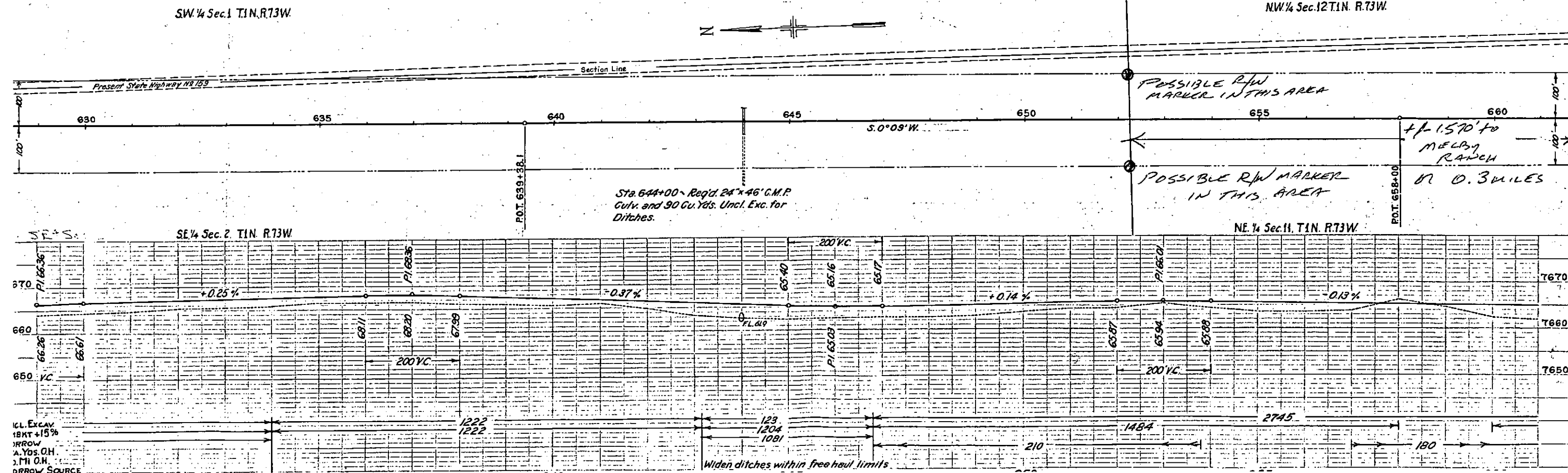
SW 1/4 Sec. 1 T. 1 N. R. 73 W.

FED. ROAD DIST. NO.	STATE	A.W. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	3003-B	22	

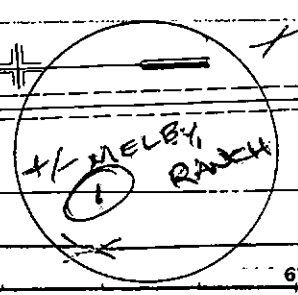


SW 1/4 Sec. 1 T. 1 N. R. 73 W.

NW 1/4 Sec. 12 T. 1 N. R. 73 W.



N.W. 1/4 Sec. 12
T.1N. R.73W.



Sta. 676+80 ~ Req'd. 2'-18" x 30' C.M.P.
Side Drains and 20 Cu. Yds. Embkt.,
Road Approaches, Lt. & Rt.

POSSIBLE
R/W MARKER
IN THIS AREA

Section Line

FILE NO.	STATE	ANK. NO.	DATE	TOTAL SHEETS
3	COLO.	3003-B	23	

TO POSSIBLE R/W MARKERS
+/- 1570' FT
OR 0.3 MILES

+/- 1020' FT
OR 0.2 MILES

S. 0° 09' W.

Sta. 663+50 ~ Req'd. 24" x 48'
C.M.P. Culv. and 30 Cu. Yds. Uncl.
Exc. for Ditches. Remove
18" x 26" C.M.P. Lt.

NE 1/4 Sec. 11
T.1N. R.73W.

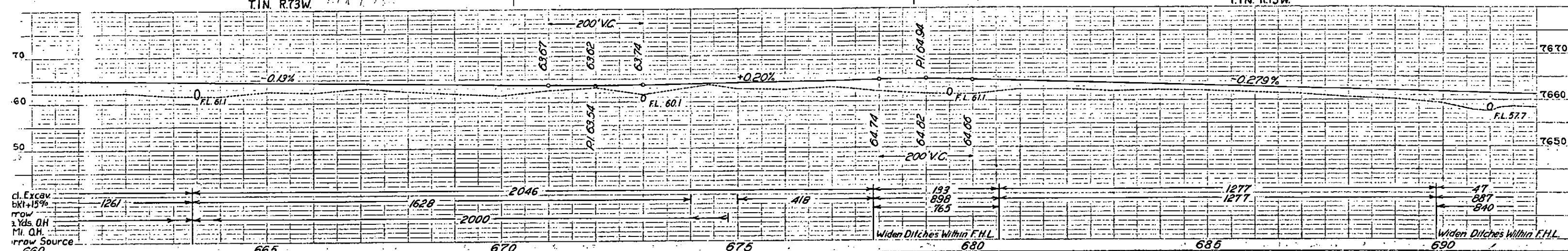
Sta. 673+00 ~ Req'd. 18" x 46' C.M.P.
Culv. and 75 Cu. Yds. Uncl. Exc. for
Ditches.

POSSIBLE R/W MARKER
IN THIS AREA

Sta. 679+50 ~ Req'd. 18" x 48'
C.M.P. Culv. and 75 Cu. Yds.
Uncl. Exc. for Ditches.

Sta. 691+00 ~ Req'd. 18" x 50'
C.M.P. Culv. and 30 Cu. Yds.
Uncl. Exc. for Ditches.

SW 1/4 Sec. 11
T.1N. R.73W.



SW 1/4 Sec. 11
T.1N. R.73W.

Sta. 693+20 ~ Req'd. 18" x 30' C.M.P.
Sd. Drain and 15 Cu. Yds. Embkt.,
Road Approach, Lt.

Sta. 700+00 ~ Req'd. 18" x 46'
C.M.P. Culv. and 115 Cu. Yds. Uncl.
Exc. for Ditches.

Sta. 703+70 ~ Req'd. 18" x 30' C.M.P.
Side Drain and 10 Cu. Yds. Embkt.,
Road Approach, Lt.

Sta. 713+00 ~ Req'd. 24" x 46' C.M.P.
Culv., 30 Cu. Yds. Uncl. Exc. for
Ditches and 5 sq. yds. Dry
Rubble Slope Paving, Also
15 Cu. Yds. Embkt., Dike, Lt.

NE 1/4 Sec. 14
T.1N. R.73W.

