

COLORADO

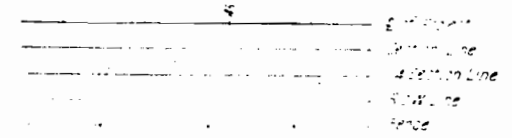
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT N.R.H.-23-B STATE HIGHWAY NO. 6 MONTROSE COUNTY

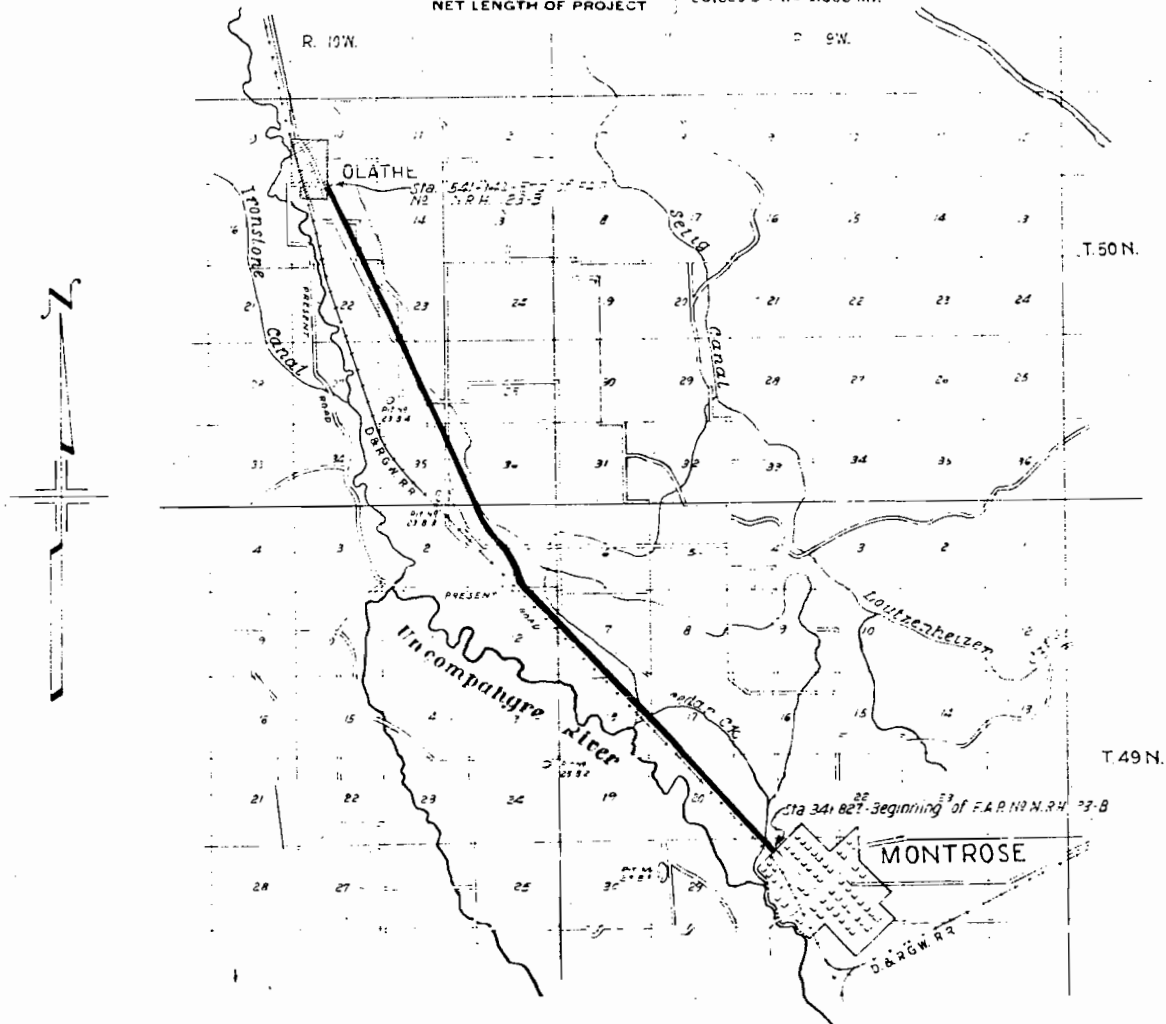
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CONVENTIONAL SIGNS



SCALES
 ON PLAN. 1 IN. = 100 FT.
 ON PROFILE 1 IN. = 100 FT. HORIZONTAL
 1 IN. = 10 FT. VERTICAL
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
 GROSS LENGTH OF PROJECT 50,629.5 FT. = 9.568 MI.
 NET LENGTH OF PROJECT



Scale ~ 1 in. = 1 mi.

RECOMMENDED FOR APPROVAL
[Signature]
 ASSISTANT ENGINEER

APPROVED
[Signature]
 STATE HIGHWAY ENGINEER

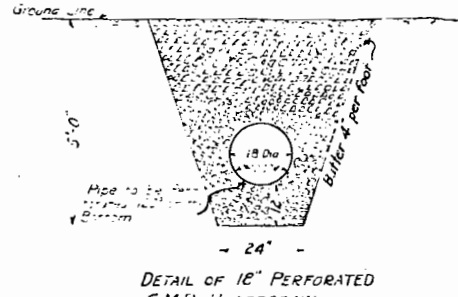
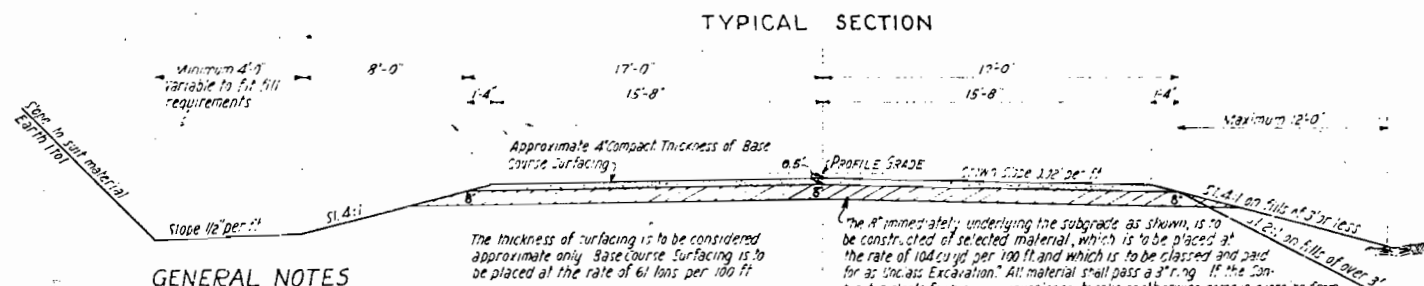
RECOMMENDED FOR APPROVAL
 [Redacted]
 CHIEF ENGINEER, BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL
 [Redacted]
 CHIEF ENGINEER, BUREAU PUBLIC ROADS

APPROVED
 [Redacted]
 DIRECTOR, BUREAU PUBLIC ROADS

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

PER. ROAD DIST.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	COLD	NEH 23-B	2	



Source	Material to be Faced	Quantity Cu. Yds.	Sp. Yd. Overhaul	Yd. Mi. Overhaul
Pit #23-B7 (2.4 Mi. West of Sta. 30+00)	34-927 - 50+00	1530	21,540	3,945
Pit #23-B2 (1.6 Mi. West of Sta. 12+00)	50+00 - 191+00	14,670	190,700	28,820
Pit #23-B3 (2.4 Mi. West of Sta. 320+00)	191+00 - 356+00	17,170	223,210	21,270
Pit #23-B4 (1.2 Mi. West of Sta. 392+00)	356+00 - 541+00	19,260	250,390	27,200
Totals		52,630	684,830	81,230

GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department, revised January 1, 1930.

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

All roadway excavation required to construct the project is to be cut and fill as indicated on the Plans. Quantities involved beyond the limits of ditch as shown on the typical section and noted as "borrow on the Plans" or as "embankment on the Structure List" are to be classified and paid for as "Unclassified Excavation". These quantities are to be placed as part of the original excavation, at locations indicated on the plans. Any slope stakes beyond the limits of the typical ditches are subject to change by the Engineer to fit embankment requirements actually encountered during construction.

All curves are to be super-elevated in accordance with methods shown on the Standard Super-elevation Sheet.

The entire project is to be cleared for the full width of the right-of-way and cost thereof is to be included in the lump sum price for Clearing and Grubbing "the Entire Project". Approximate location and character of clearing and grubbing required is indicated in notes on Plans.

Pipe cross culverts are to be provided with one standard head, all on the inlet end, unless otherwise indicated on Plans.

The detour for this project lies along the present traveled road as indicated on the Title Sheet where the new work is on the present traveled roadway the contractor shall at his own expense, supervise construction that traffic can readily pass over the road. The contractor shall maintain a safe condition and at his own expense will temporarily open up to any crossing intersecting roads.

Except as limited by the specifications, power equipment may be used on this project.

FENCING REQUIREMENTS

Location	Side	Remove (Lin Ft)	Built (Lin Ft) Barbed Wire	Location	Side	Remove (Lin Ft)	Built (Lin Ft) Barbed Wire
38+00	R	6000	2200	436+80	R	110	
50+00	R	51+00		436+00	R	275	
60+00	R	90+00	3000	438+10	R	275	
71+15	R	90+00	1895	449+00	R	110	
90+00	R	120+00	3300	449+40	R	110	
90+00	R	102+00	1280	450+00	R&L		6000
100+00	R	150+00	3000	463+75	R	110	
100+00	R	157+75	125	477+70	R	110	
150+00	R	180+00	3000	480+00	R&L		6000
172+00	R	173+00	145	491+60	R	110	
180+00	R	210+00	3000	492+15	R	110	
186+00	R	197+00	1050	505+75	R	150	
186+00	R	197+00	1100	506+15	R	260	
191+20	R	191+75	130	506+95	R	253	
209+35	R	210+25	140	510+00	R		1000
210+00	R	240+00	3000	510+00	L		1100
210+20	R	21+25	140	520+00	R	110	
226+90	R		150	520+60	R		340
227+00	R	228+00	100	521+00	L		340
227+75	R		150	523+80	R	110	
240+00	R	254+00	1400	524+00	R		1560
240+00	R	270+00	3000	524+00	L		1600
254+00	R	265+00	1130	524+00	R		
253+50	R	254+35	130	531+50	R	110	
265+30	R	270+00	470	534+90	R	110	
265+90	R	269+20	330	541+00	R	235	
264+90	R	265+00	180	541+00	R	40	
267+00	R	269+70	465				
270+00	R	270+95	120				
270+00	R&L	300+00	6200				
270+00	R&L	277+10	820				
284+30	R	299+20	410				
300+00	R	324+70	2470				
300+00	R	327+60	2760				
305+25	R	305+80	115				
305+55	R	307+95	230				
308+60	R	320+30	1255				
324+70	R	330+00					530
327+60	R	330+00					240
330+00	R	334+90					430
330+00	R	337+00					700
334+90	R	337+00	250				
334+90	R	340+00					250
337+00	R	360+00	2300				
343+60	R	364+25	120				
349+70	R	350+40	120				
360+00	R&L	370+00	6000				
367+75	R	370+50	370				
377+65	R	378+5	110				
390+00	R&L	420+00	6000				
391+90	R	392+50	115				
392+60	R	393+10	115				
399+40	R	399+80	10				
419+25	R	420+00	80				
420+00	R&L	421+80	330				
420+00	R&L	430+00	6000				
Totals							

Sta.	Side	No.	Sta.	Side	No.
34+00	R	1	340+04	R	1
49+20	L	1	320+55	L	1
50+08	L	1	324+30	L	1
70+25	L	1	337+03	R	1
71+62	R	1	349+70	R	1
84+40	R	1	350+20	L	1
85+20	L	1	378+13	R	1
101+50	L	1	378+57	L	1
111+72	R	1	406+50	R	1
120+15	R	1	406+90	L	1
120+92	L	1	424+80	R	1
152+06	L	1	435+20	L	1
153+90	R	1	463+57	R	1
154+03	R	1	463+83	L	1
154+78	L	1	472+35	L	1
190+15	L	1	474+78	R	1
191+21	R	1	491+52	R	1
191+79	R	1	492+33	L	1
192+84	L	1	520+53	R	1
226+62	R&L	2	520+97	L	1
227+54	L	1	539+82	L	1
227+78	R	1	541+14	R&L	2
261+25	R	1			
261+44	L	1			
272+00	L	2			
272+78	L	1			
278+00	L	2			
278+18	R	1			
289+97	R	1			
Total					57

SUMMARY OF APPROXIMATE QUANTITIES

No.	Item	Unit	Quantities		
			Rightway	Bridge	Total
10a	Clearing and Grubbing the entire project	Lump Sum			
11a	Removing 20 Structures	Lump Sum			
11b	Removing 4 Bridges, Stas. 228+266+326+	Lump Sum			
11c	Removing & Rebuilding board fence Sta. 335	Lump Sum			
12a	Removing Fence	Lin Ft	13,800		13,800
13a	Unclassified Excavation	Cu Yd	205,000		205,000
14a	Dry Rock Excavation (Structural)	Cu Yd	250		250
14b	Dry Common	"	850	130	990
14c	Wet Rock	"	250		250
14d	Wet Common	"	850		850
18a	Station Yard Overhaul	Sta. Yd	1,213,000		1,213,000
18b	Yard Mile	Yd. Mi.	113,000		113,000
30x	Gravel or Crushed Rock Surfacing	Ton	31,800		31,800
42a	Untreated Bridge Timber	M.F.B.M.		13	23
50	Treated Bridge Timber	M.F.B.M.		19.7	30.0
46a	Class A Concrete	Cu Yd	322	55	432
46b	Class B Concrete	"	67		67
47	Reinforcing Steel	Lb	28,800	1800	32,900
48	Structural Steel	"		600	600
57a	18" Galv. Metal Culvert Pipe	Lin Ft	6462		6462
57b	24" "	"	500		500
57c	30" "	"	15		15
57d	36" "	"	240		240
58b	18" Perforated C.M.P. Underdrain	"		1320	1968
60	Timber Piling	"		44	60
61	Metaling Shoes	"			400
62	Galv. Metal Wire Fence	Lin Ft	440		400
63	Galv. Metal Wire Fence	"	79,100		79,100
64	Gates	Each	49		48
65	Fluxer Markers	"	1		1
66	Fluxer	"	57		57
85a	Traverse Pins	"	9		8
95a	Communication wire cables	Lin Ft	2700		2700
95b	Driveway Gates	Each	2		2
96	18" Galv. Metal Siphon Pipe	Lin Ft	506		506



Note:
 All pole lines encroaching on R.O.W. are to be moved by owners.
 Fencing and R.O.W. Markers required are tabulated on Sheet No. 2.

LOT 3 SEC. 28
 T.49N, R.9W, N.M.P.M.

LOT 4 SEC. 28

SW 1/4 SW 1/4 SEC. 21

23-B-13

34+82 Reg'd. Project Marker
 35+70 to 38+00 Remove and Rebuild 250 Ft. Board Fence on R
 35+30 Remove 2" x 4" Iron Pipe

36+50 Reg'd 2" x 72" Cross C.M.P.
 36+50 Remove 2" x 4" C.M.P.

52+25 Remove 12" x 12" Wood Box

D&B.G.W. R.R.

Present Road

To Grand Junction

N 38° 58' W

N 40° 47' W

N 8th ST

N 9th ST

CASCADE AVE

AVE

38+00 to 60+00 Reg'd 220' Barb Wire Fence on Rt.

Clear & Grubbing
 38+00 to 60+00 Clearwood 30A

SE 1/4 SW 1/4 SEC. 21

Greasewood

58+50 Reg'd 1-18" x 30" & 1-18" x 18" C.M.P. Side Drain, 100 Cu Yds Emb, 10T of Sur Gravel and 1- Barb W. Gate for Rd. Appr on Rt

Cultivated

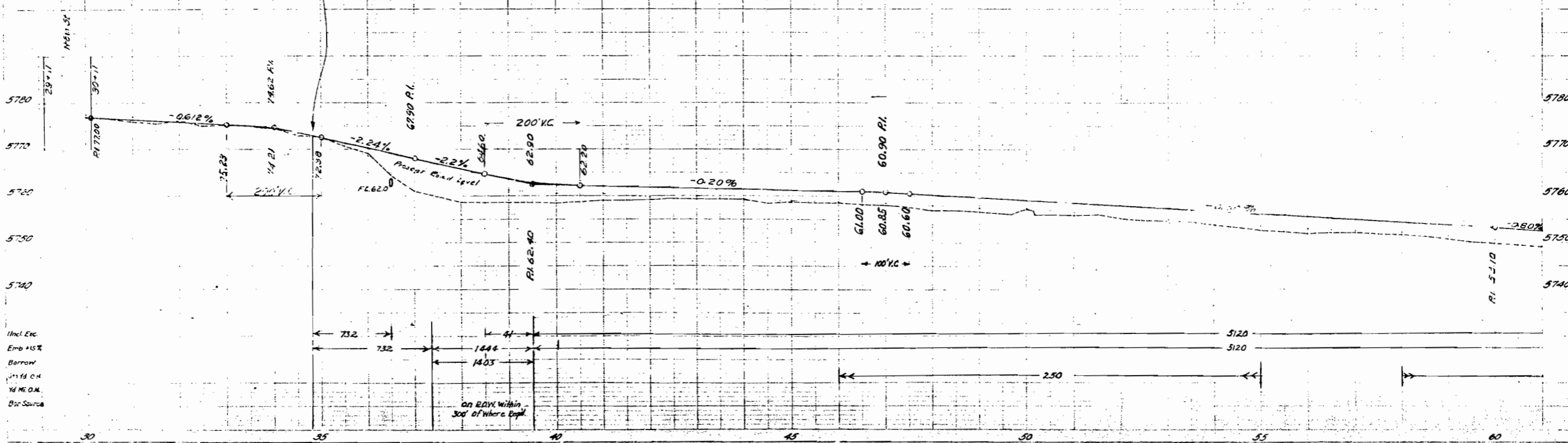
50+60 Reg'd 1-18" x 30" & 1-18" x 18" C.M.P. Side Drain 100 Cu Yds Emb, 10T of Sur Gravel and 1- Barb W. Gate for Rd. Appr on Rt

35+50 Remove 12" x 11" x 37" Wood Box on Lt. Reg'd 18" x 30" C.M.P. Side Drain. 100 Cu Yds Exc. & 10T of 5/8" Gravel for Rd. Appr on Lt.

38+20 Reg'd 18" x 30" C.M.P. Side Drain 100 Cu Yds Emb 10T of Sur Gravel & 1- Barb W. Gate for Rd. Appr on Rt.

50+00 Remove 15" x 24" C.M.P. on Lt. Reg'd 18" x 18" C.M.P. Side Drain & 100 Cu Yds Emb & 10 Ton Sur Gravel for Rd. Appr on Lt.

50+00 to 60+00 Reg'd 100 Cu Yds Exc to Const. Drain on Lt.
 50+00 to 51+00 Remove B.W. Fence on Rt. 200'

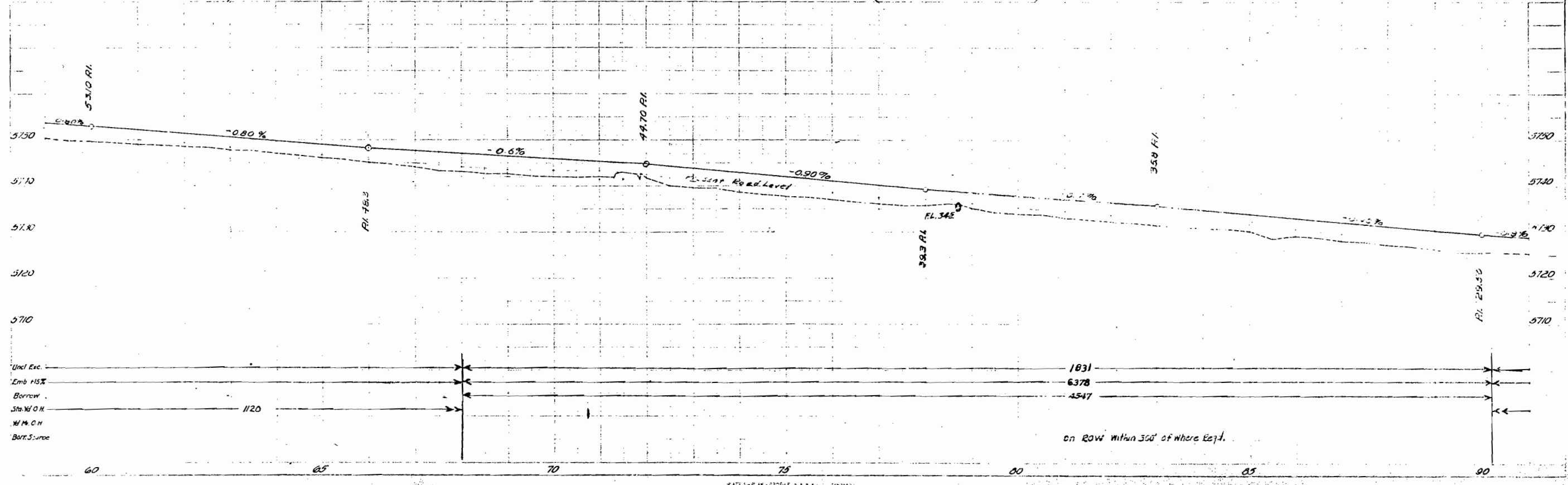
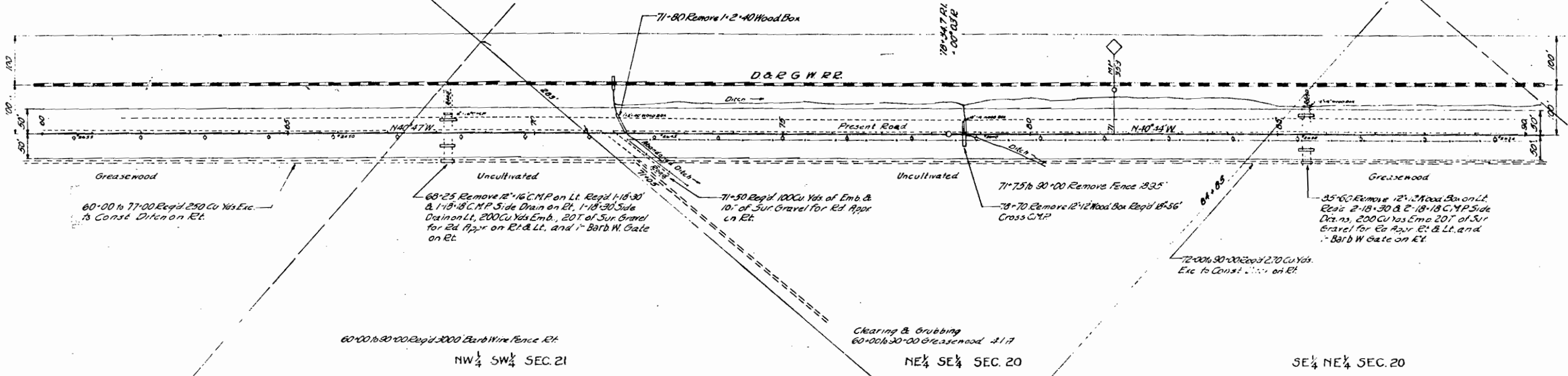


Incl. Exc.
 Emb +15%
 Borrow
 11 1/4 CH
 16 M.O.M.
 Bar Source

On R.O.W. Within
 300' of Where Reg'd.

SW 1/4 SEC. 21
T49N, R. 9W, N.M.P.M.

VRH
23-B 14



SW 1/4 NE 1/4 SEC 20
T49N, R.9W, N.M.P.M.

NE 1/4 NW 1/4 SEC 20

DATE	NO.	BY	SCALE
	23-B	15	

108+30 Remove 18" CMP on Lt. Reg'd 18" 30" CMP Side Drain, 100 Cu Yds Emb and 10 Tons of Sur Gravel for Rd Appr on Lt.

108+80 Reg'd 18" 30" CMP Side Drain 100 Cu Yds Emb, 10 T of Sur Gravel for Rd Appr on Lt.

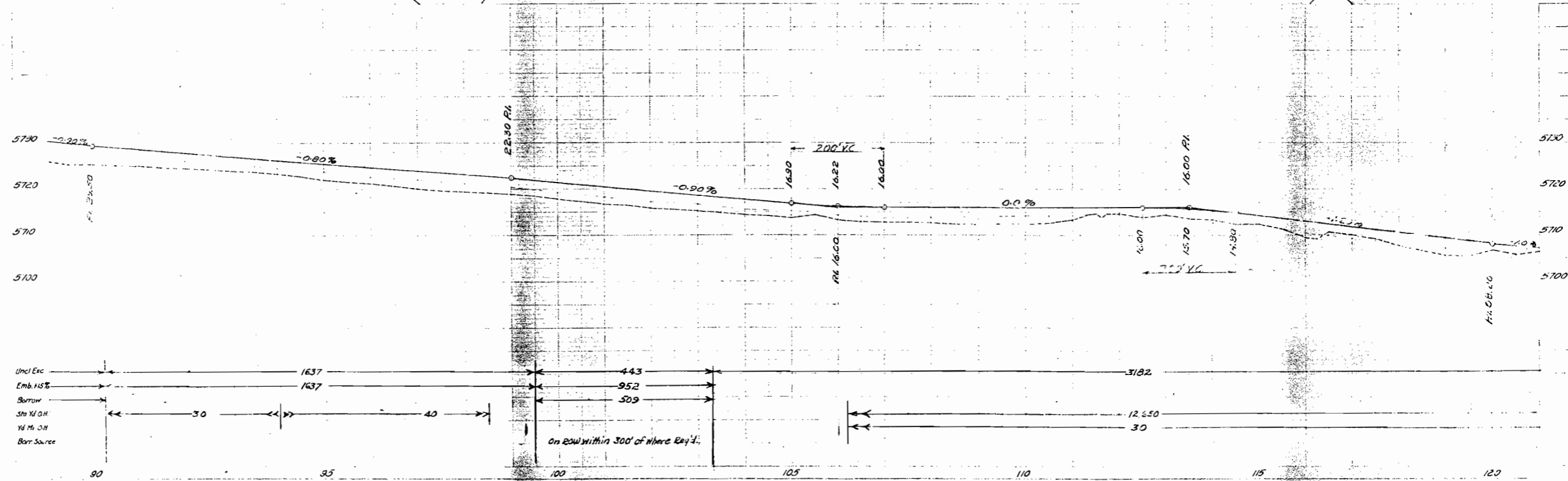
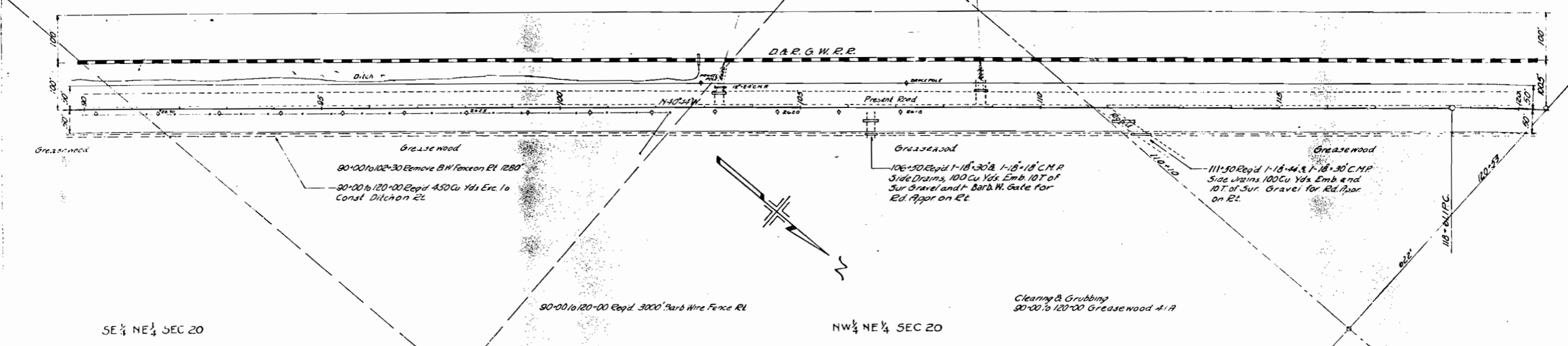
90+00 to 102+30 Remove BM Fence on Rt 1250
30+00 to 120+00 Reg'd 450 Cu Yds Exc. to Const Ditch on Rt.

106+50 Reg'd 1-18" 30" & 1-18" 18" CMP Side Drains, 100 Cu Yds Emb, 10 T of Sur Gravel and 1 Barb W. Gate for Rd Appr on Rt.

111+50 Reg'd 1-18" 30" & 1-18" 18" CMP Side Drains, 100 Cu Yds Emb and 10 T of Sur Gravel for Rd Appr on Rt.

90+00 to 120+00 Reg'd 3000' Barb Wire Fence Rt

Cleaning & Grubbing
90+00 to 120+00 Greasewood 4:1

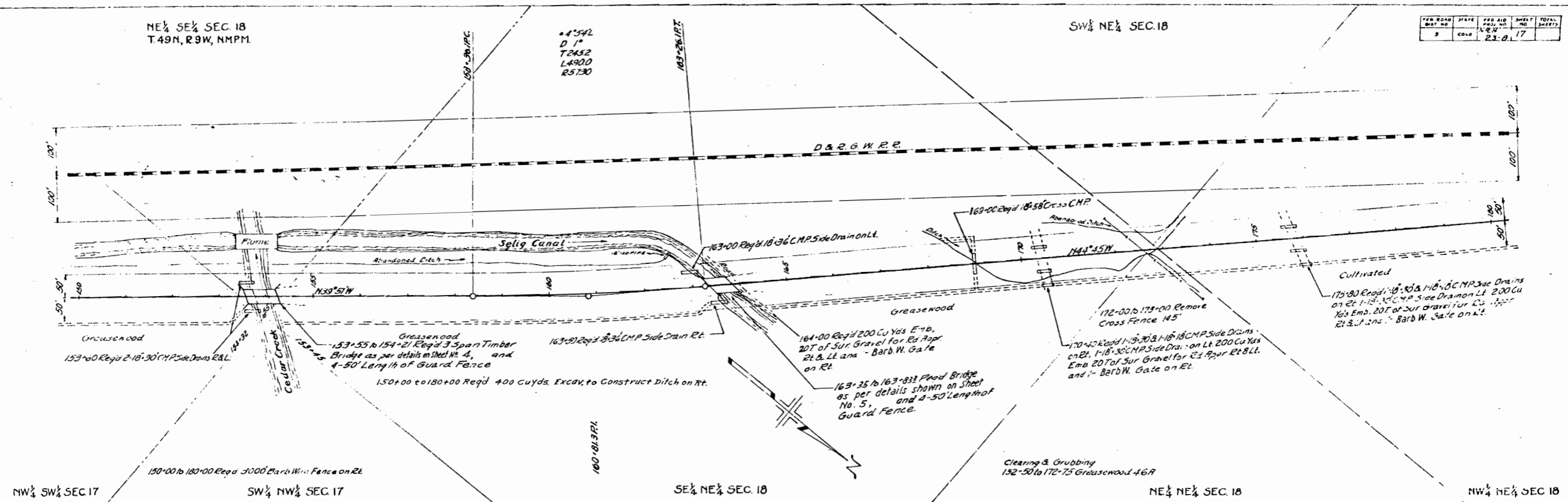


NE 1/4 SE 1/4 SEC. 18
T.49N, R.9W, NMPM.

SW 1/4 NE 1/4 SEC. 18

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	CALIF.	23-A	17	

4" 3/4 L
D 1"
T 2452
L 4900
R 5730



BRIDGE DATA STATION 153+55 to 154+21
PRESENT STRUCTURE

Span	1 @ 26'
Clear Waterway	300 sq. ft.
Super Structure	Conc. floor
Substructure	I Beam with piles
STREAM DATA	
Drainage area	80 Sq. mi.
Max. High water	EL. 5663.0
Low water	EL. 5656.0
Stream bed	EL. 5655.6
Scour	Slight

Structure J-5-F CEDAR CREEK
PROPOSED STRUCTURE

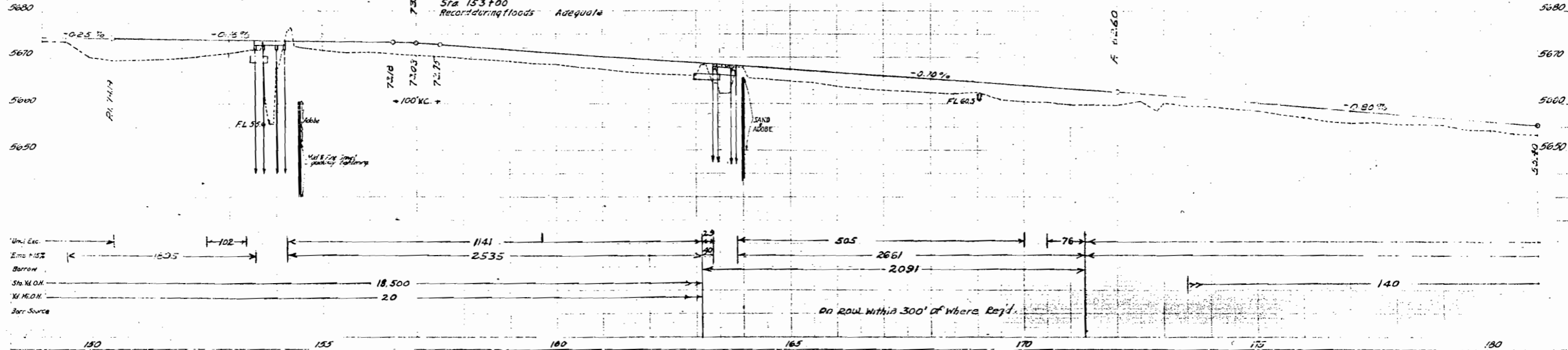
Span	1 @ 27' - 2 @ 19'
Clear Roadway	30'
Superstructure	Conc. floor
Substructure	Timber Trestle (PILE)
Detour structure requirements	- None
Rail Road siding	Montrose
Haul to bridge site	3 Mi.
NEAR BY STRUCTURES ON SAME STREAM	
Present Structure	200' Lett of Sta. 153+00
Record during floods	Adequate

BRIDGE DATA STATION 163+35 to 163+83.30
PRESENT STRUCTURE
(New Alignment), None

Requirements as to removal	- None
STREAM DATA	
Irrigation Canal Only	
Max. High Water	EL. 5665.0
Normal Stage	EL. 5664.6
Stream Bed	EL. 5662.8
Drift	None
Scour	None

Structure No. J-5-G Selig Canal
PROPOSED STRUCTURE

Span	1 @ 27', 2 @ 10'
Clear Roadway	30'
Superstructure	Conc. floor
Substructure	Treat Timber Trestle
Detour structure requirements	- None
Rail Road siding	Montrose
Haul to bridge site	3 mi.



Uncl. Exc.	102	1141	505	76
Em. + 15%	1805	2535	2661	
Borrow			2091	
Sta. M.O.H.	18,500			140
XI M.O.H.	20			
For Source				

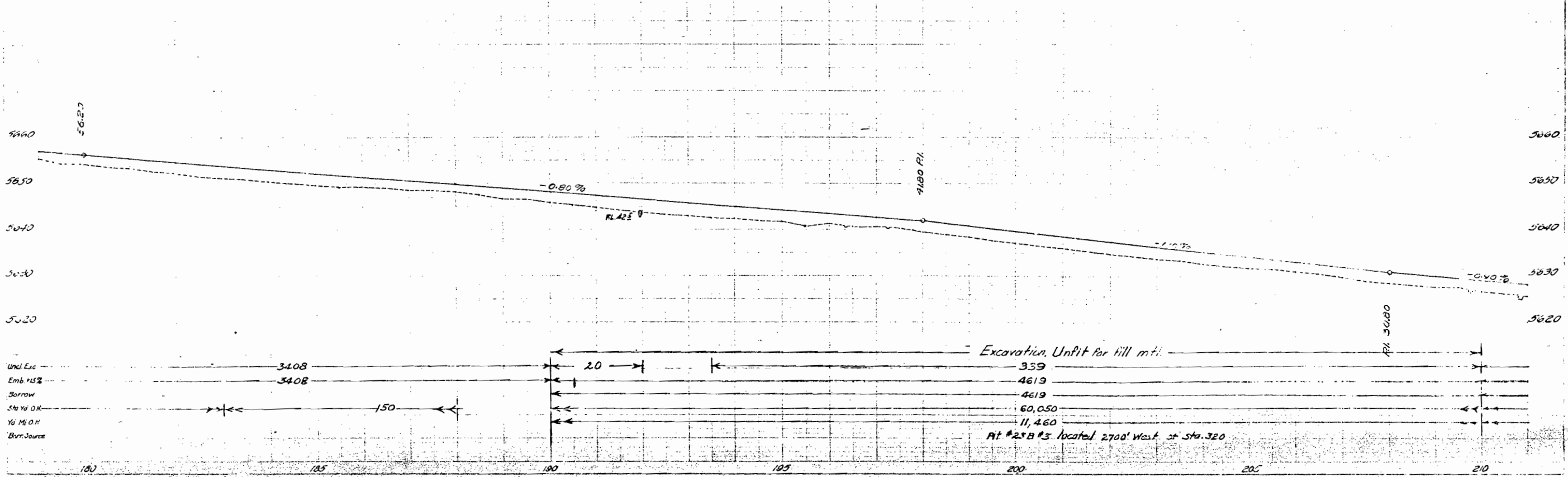
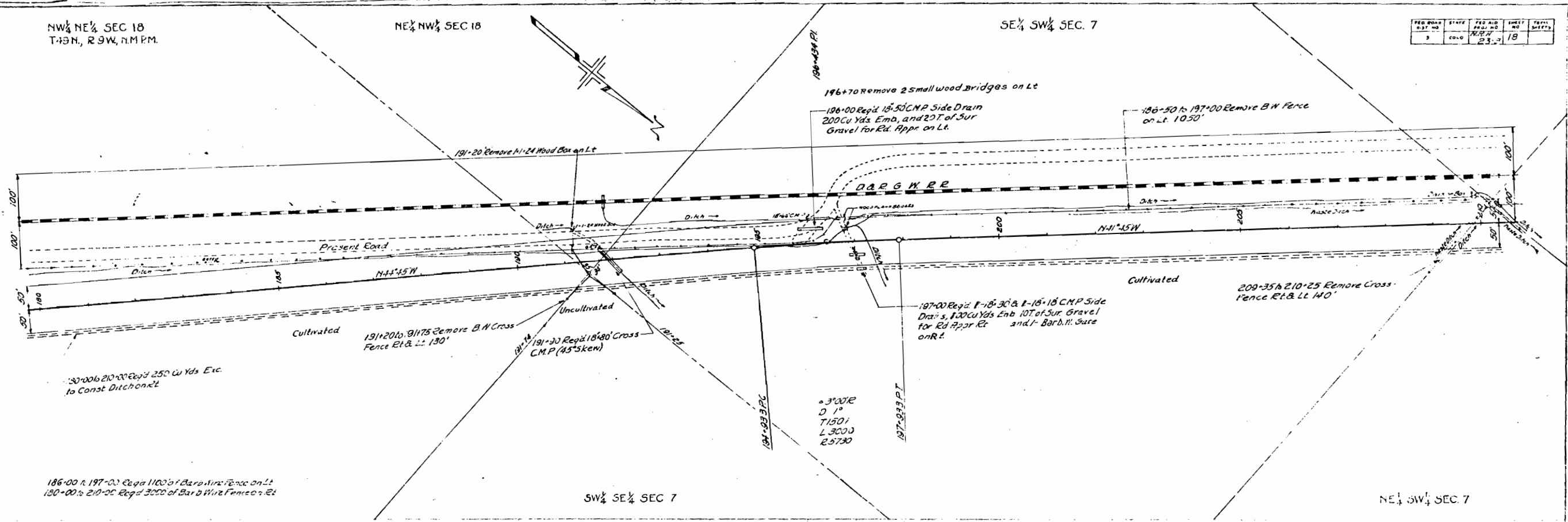
ON ROW WITHIN 300' OF WHERE REQ'D.

NW 1/4 NE 1/4 SEC 18
T-13N, R-9W, N.M.P.M.

NE 1/4 NW 1/4 SEC 18

SE 1/4 SW 1/4 SEC. 7

REG. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	7K-257-2	18	

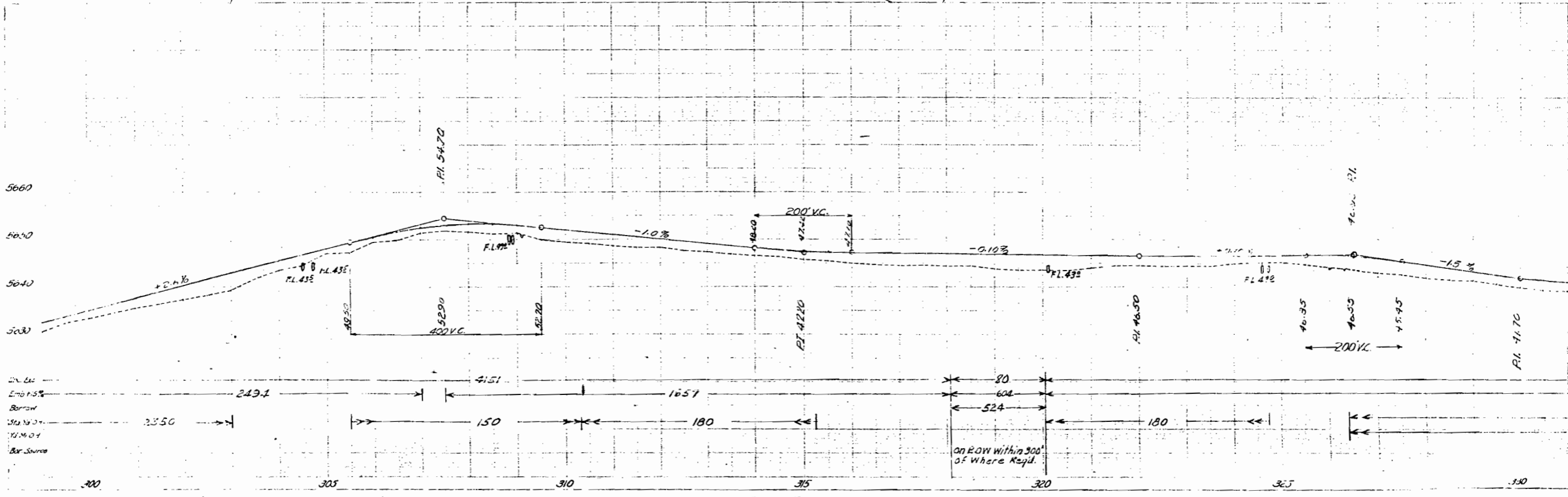
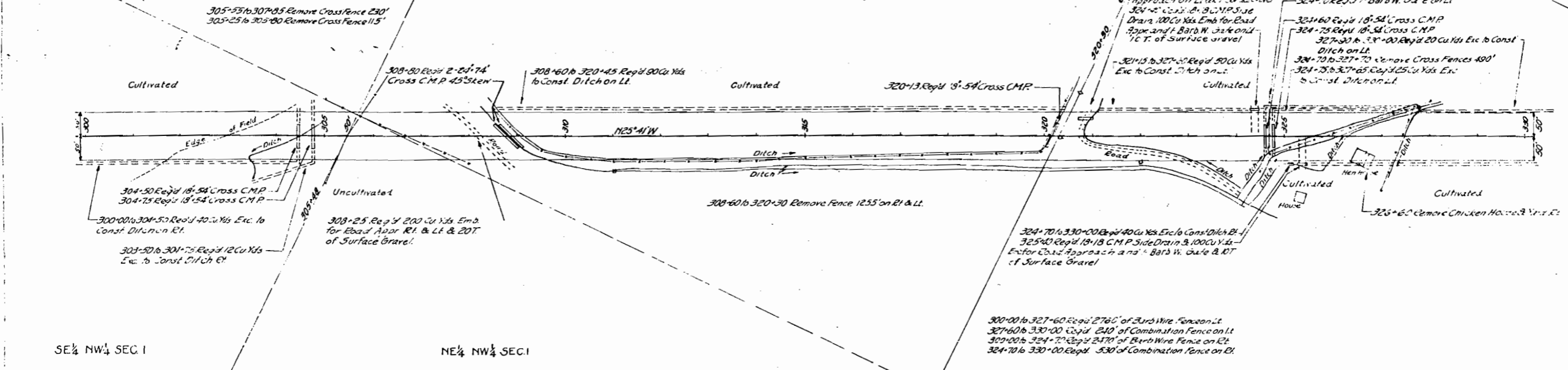
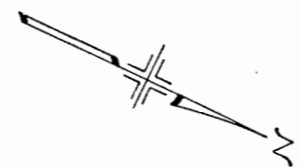


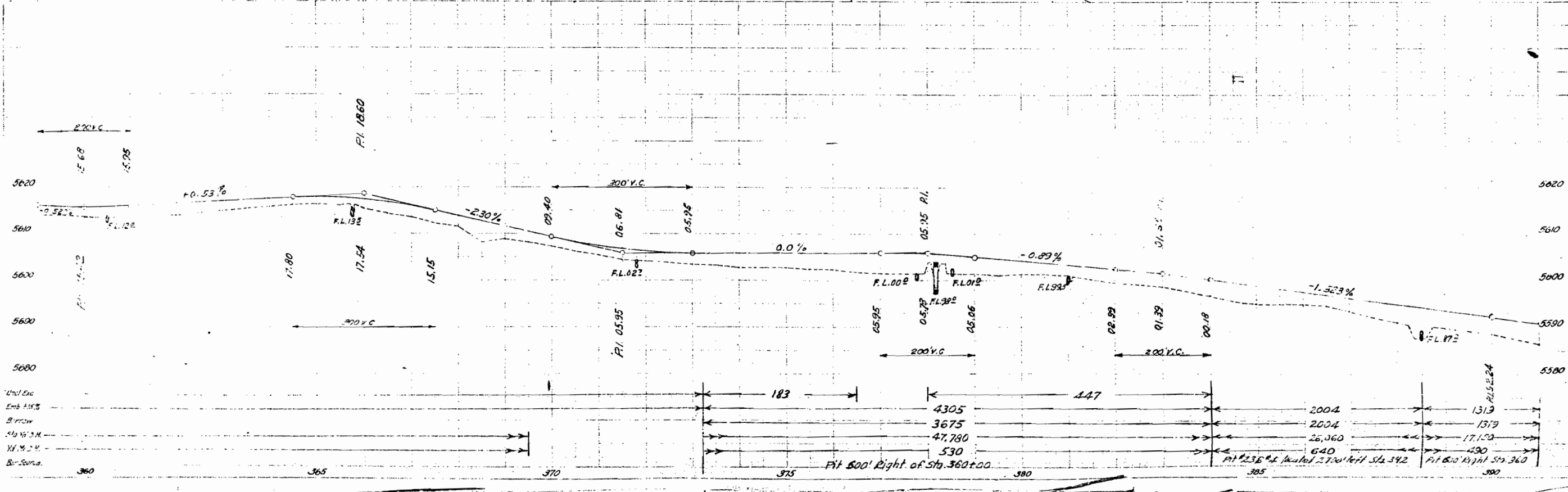
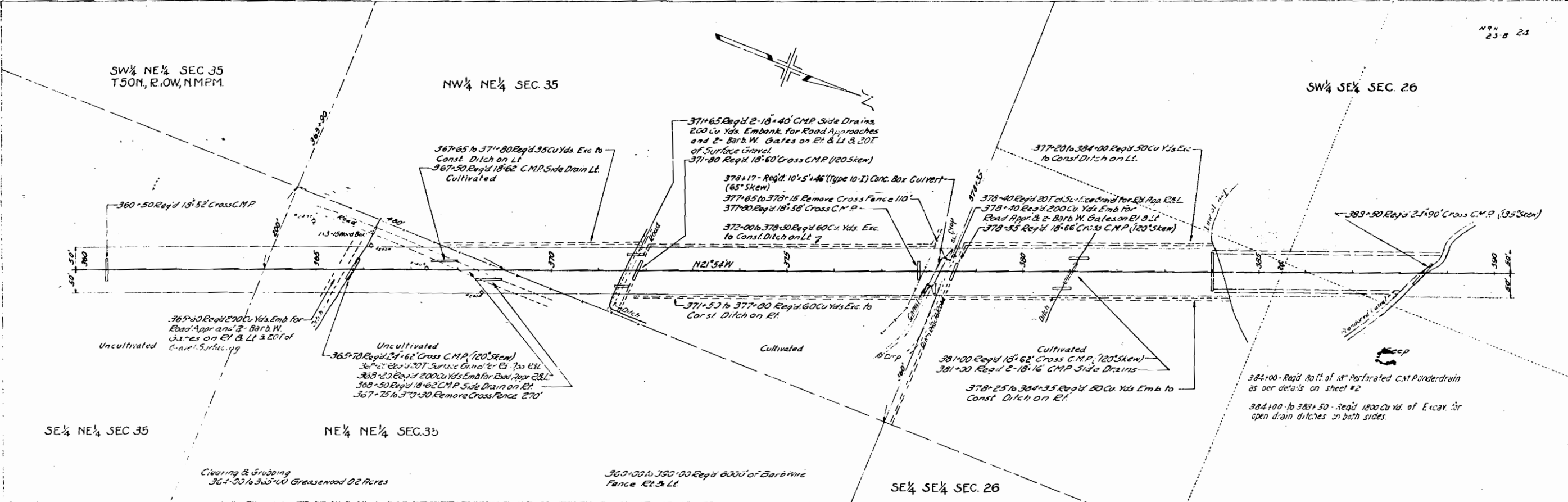
SW 1/4 NW 1/4 SEC. 1
T49N, R10W, N.M.P.M.

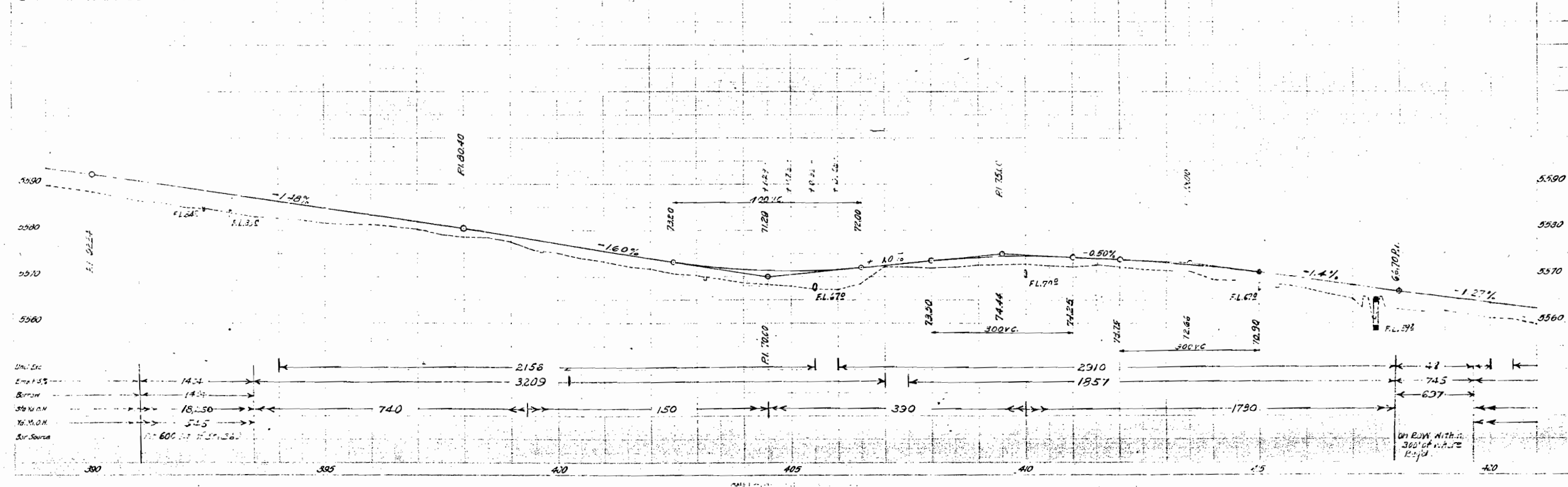
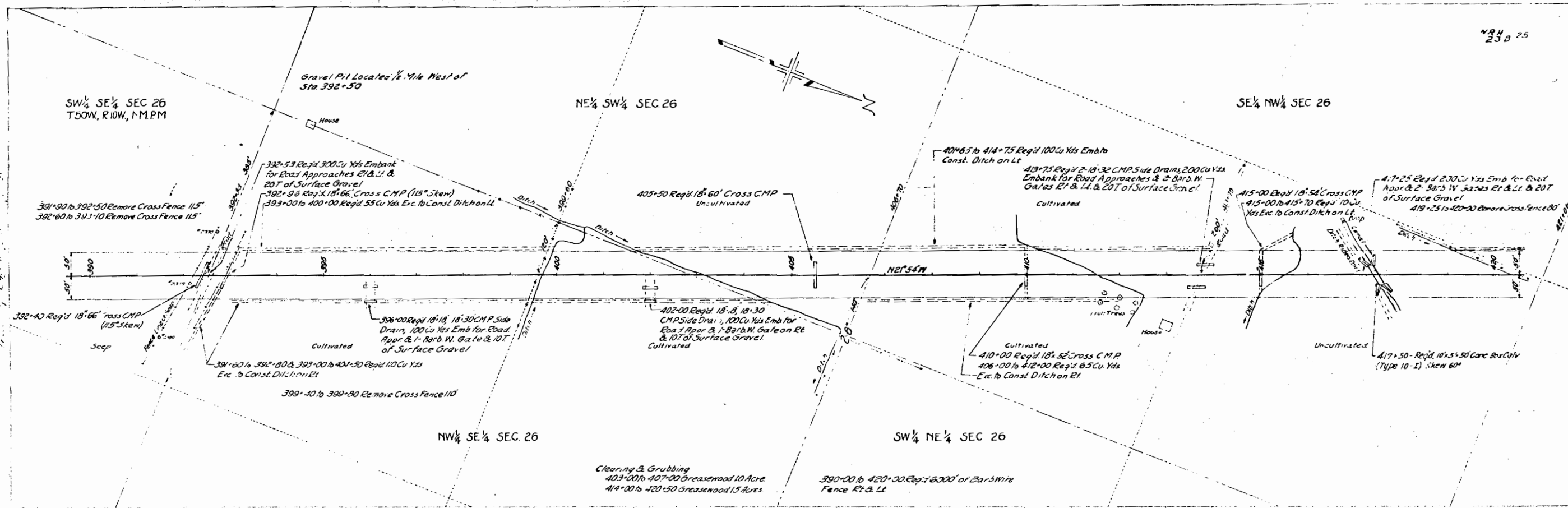
NW 1/4 NW 1/4 SEC. 1

SW 1/4 SW 1/4 SEC. 36
T50N, R10W, N.M.P.M.

MAN
23-8 22





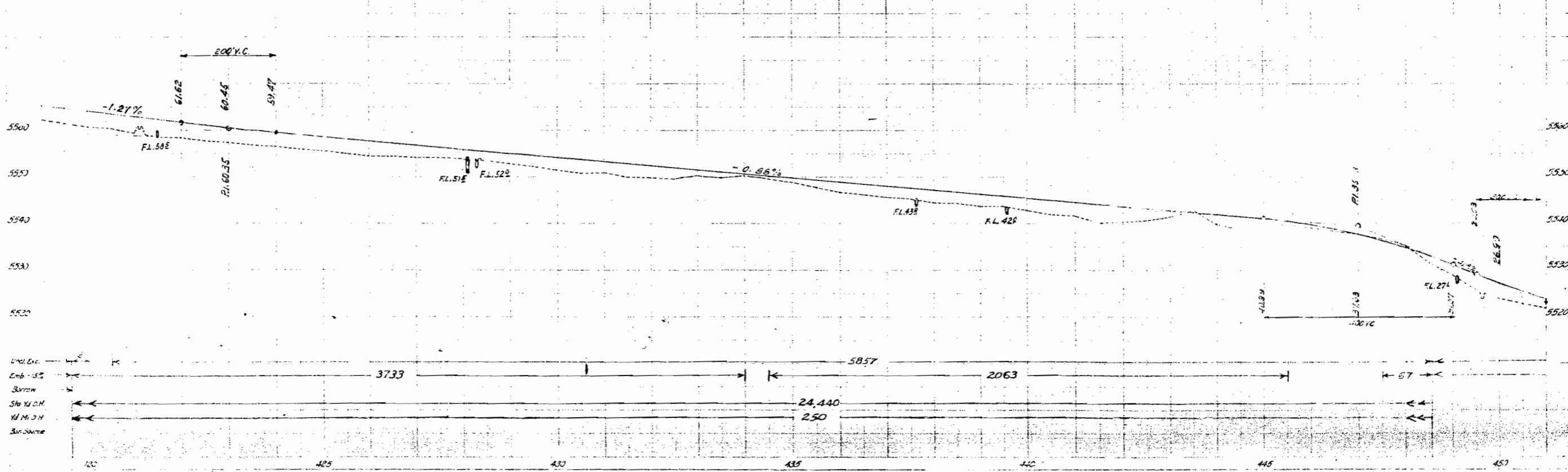
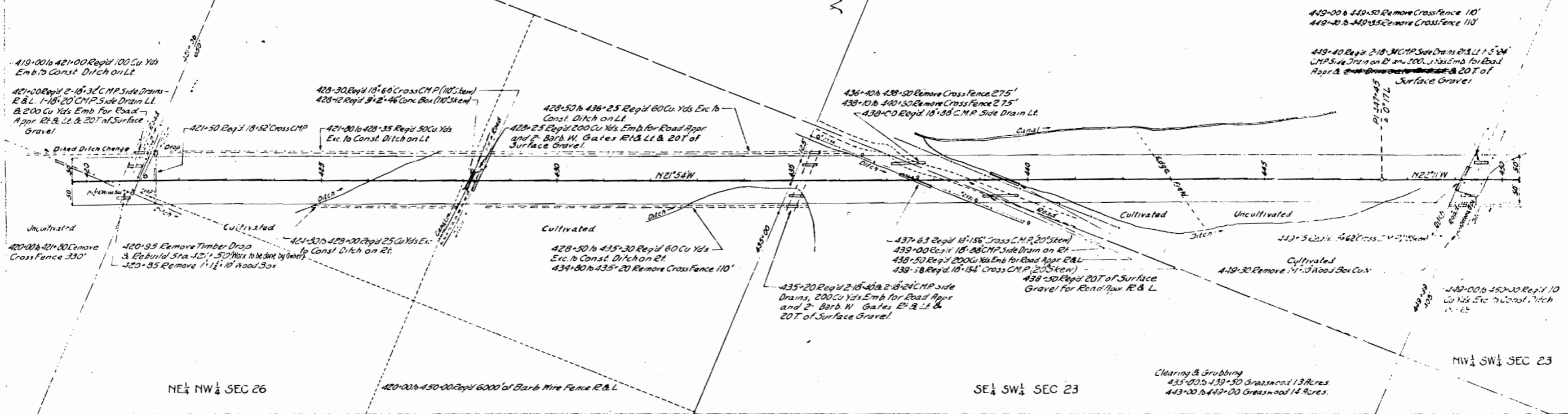
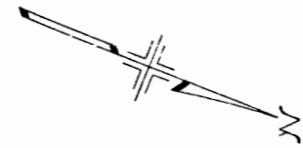


SE 1/4 NW 1/4 SEC 26
T 50N, R 10W, NMPM

NW 1/4 NW 1/4 SEC 26

SW 1/4 SW 1/4 SEC 23

MAN
23-B 26

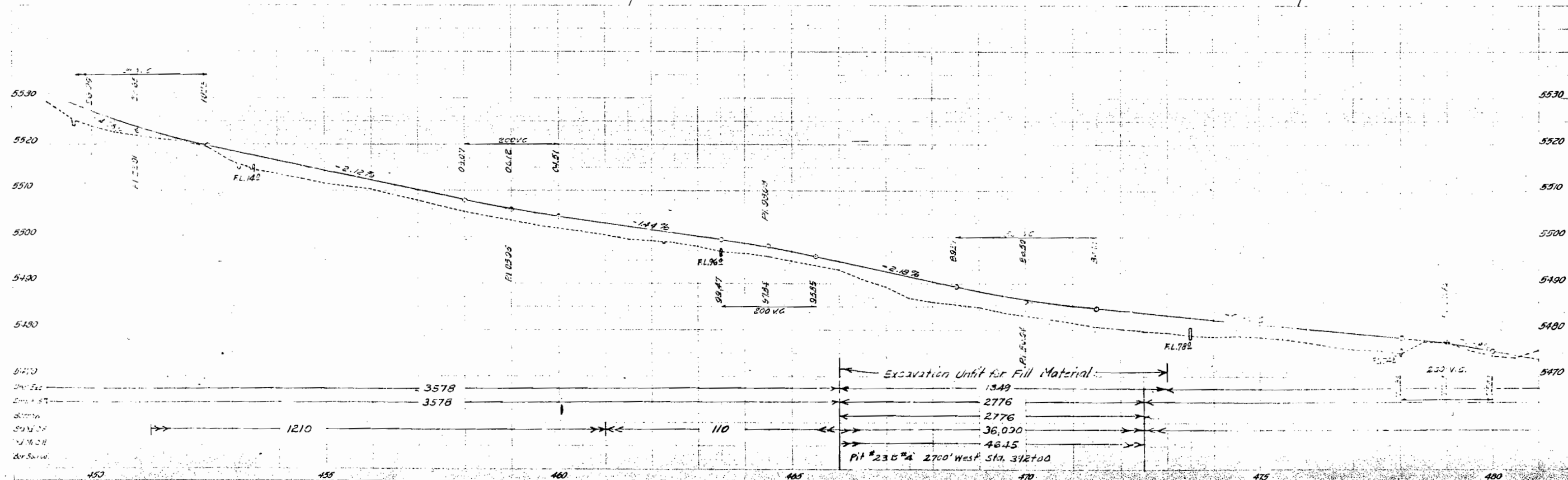
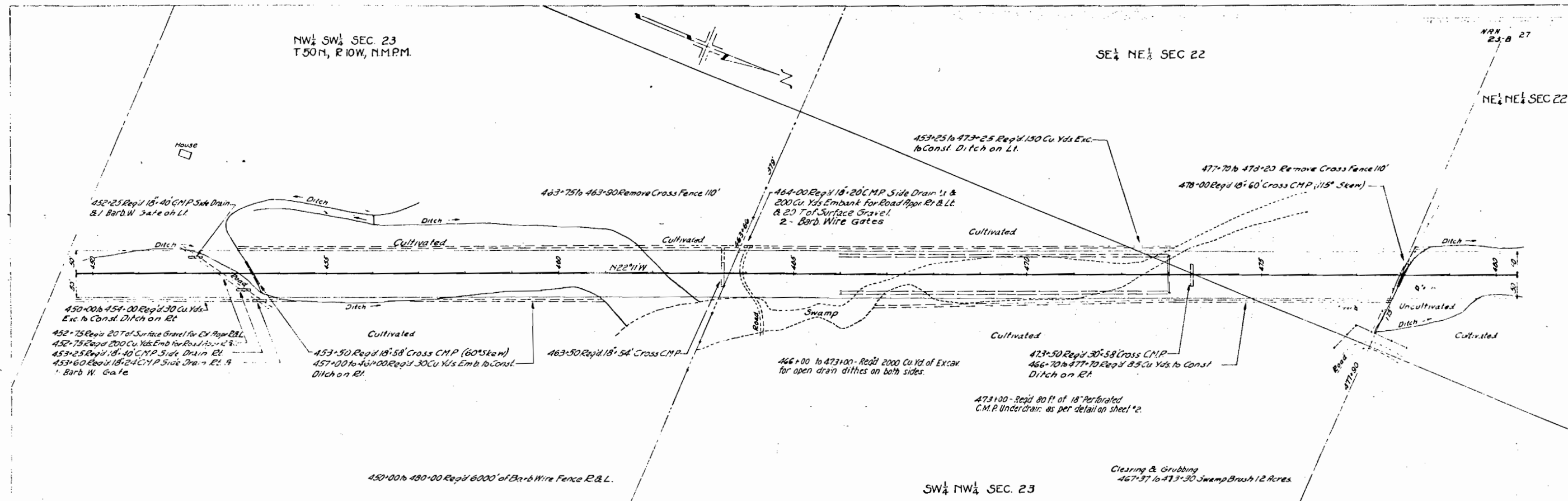


NW 1/4 SW 1/4 SEC. 23
T 50 N, R 10 W, N.M.P.M.

SE 1/4 NE 1/4 SEC 22

NRN 23-B 27

NE 1/4 NE 1/4 SEC 22



NE 1/4 NE 1/4 SEC 22
T 50N, R 10W, NMP.M.

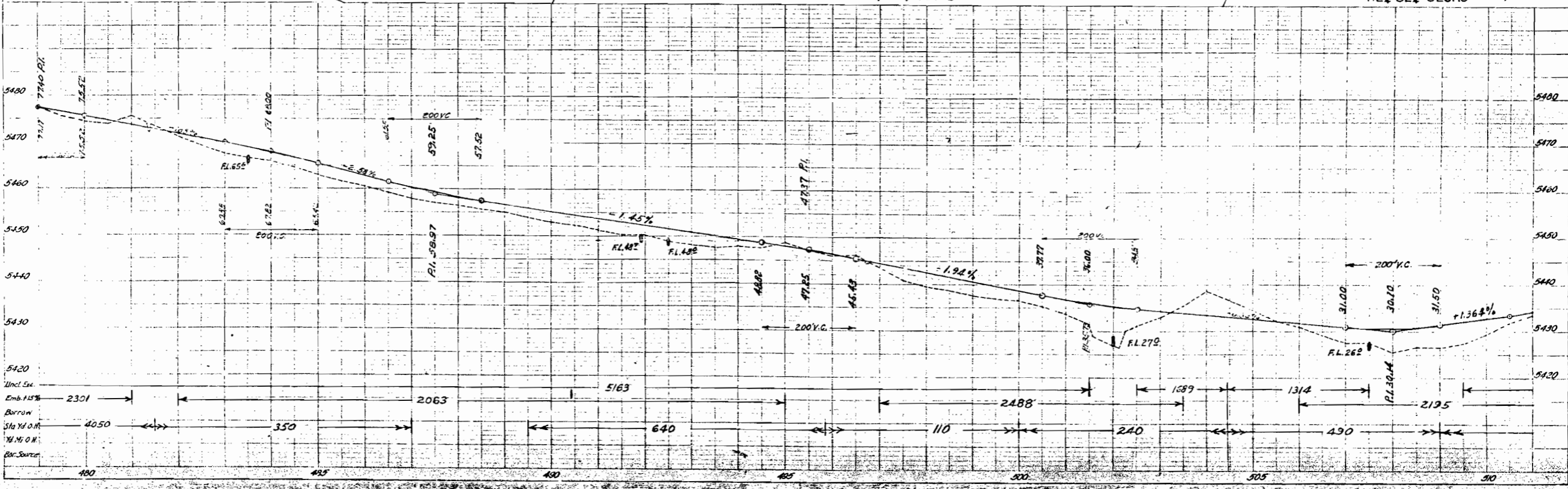
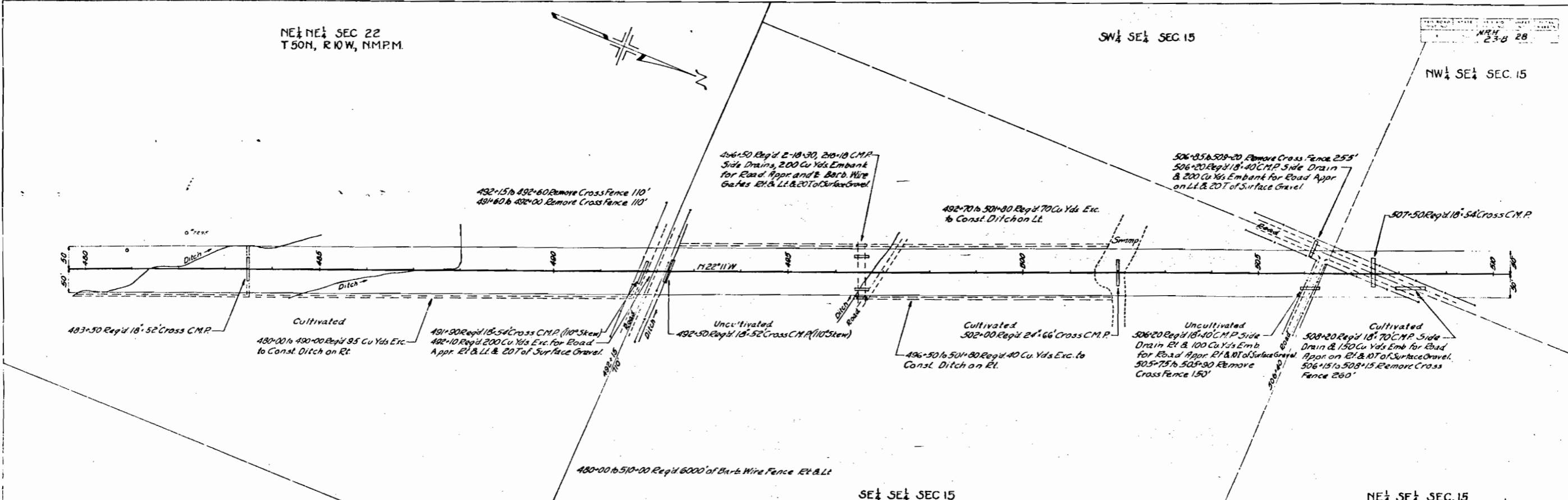
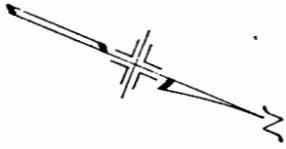
SW 1/4 SE 1/4 SEC 15

NW 1/4 SE 1/4 SEC 15

SE 1/4 SE 1/4 SEC 15

NE 1/4 SE 1/4 SEC 15

NRH
23-B 28



NW 1/4 SE 1/4 SEC 15
T 50N, R 10W, NMRM

NRM 23 B 29

