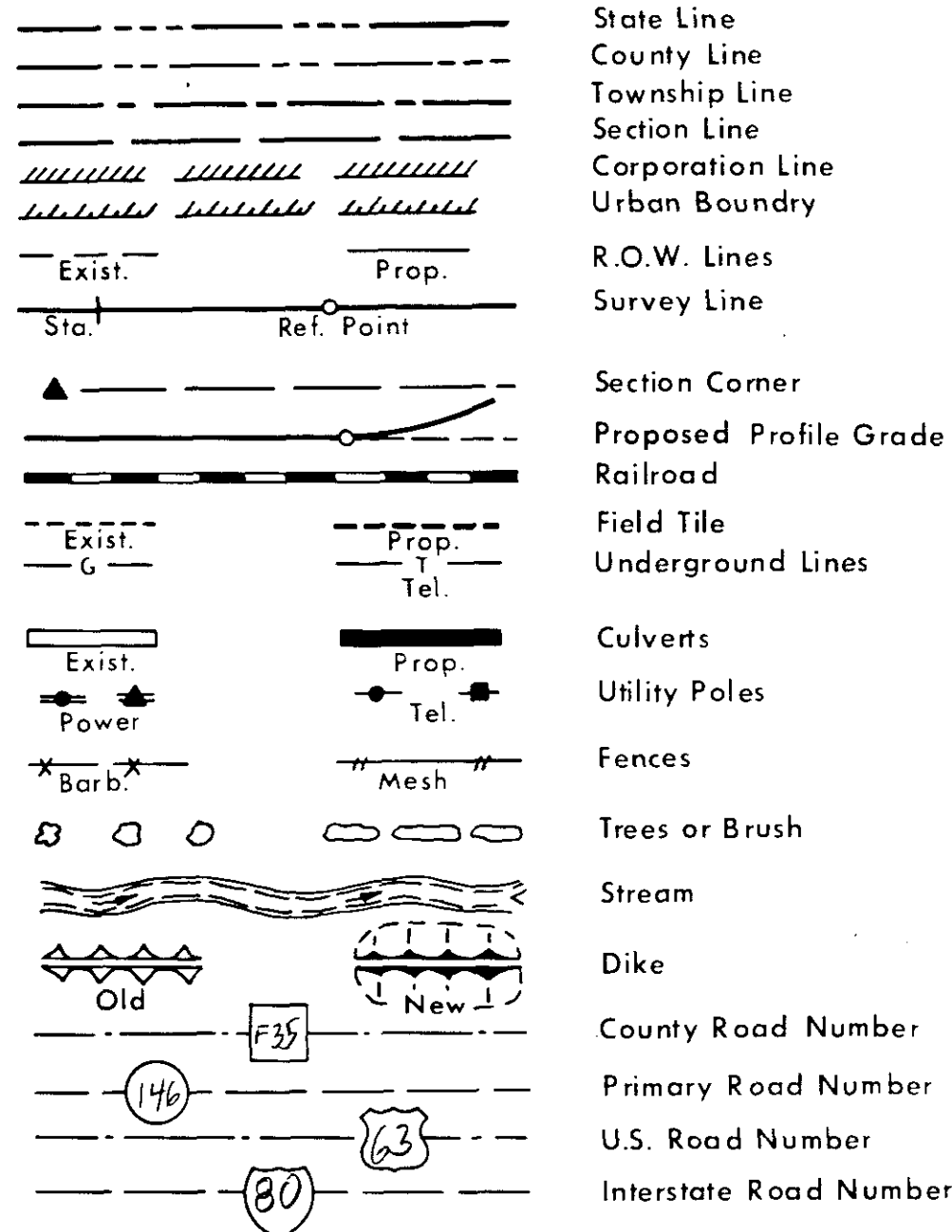


CONVENTIONAL SIGNS



CONSTRUCTION PLANS SHOWING PROJECT AS BUILT

Plan Preparation Supervised By: *Thomas J. Rea*
Resident Construction Engineer
Iowa Reg. No. 11119
Date 1-19-88
Reviewed and Forwarded to Ames:
Robert Young
District Construction Engineer
Date 1-26-88
THREE Full-Size Prints To Be Made and Returned To:
Kenneth Meeks
District Engineer

AFTER MICROFILMING RETURN ORIGINAL TO DISTRICT NO. ONE (U)

IOWA
DEPARTMENT OF TRANSPORTATION
Highway Division

PLANS OF PROPOSED IMPROVEMENTS ON THE

INTERSTATE ROAD SYSTEM
POWESHIEK COUNTY

P.C.C. INLAY
ON I-80 FROM APPROXIMATELY 1 MILE EAST OF IA. 146
EAST TO APPROXIMATELY 1 1/4 MILE EAST OF U.S. 63

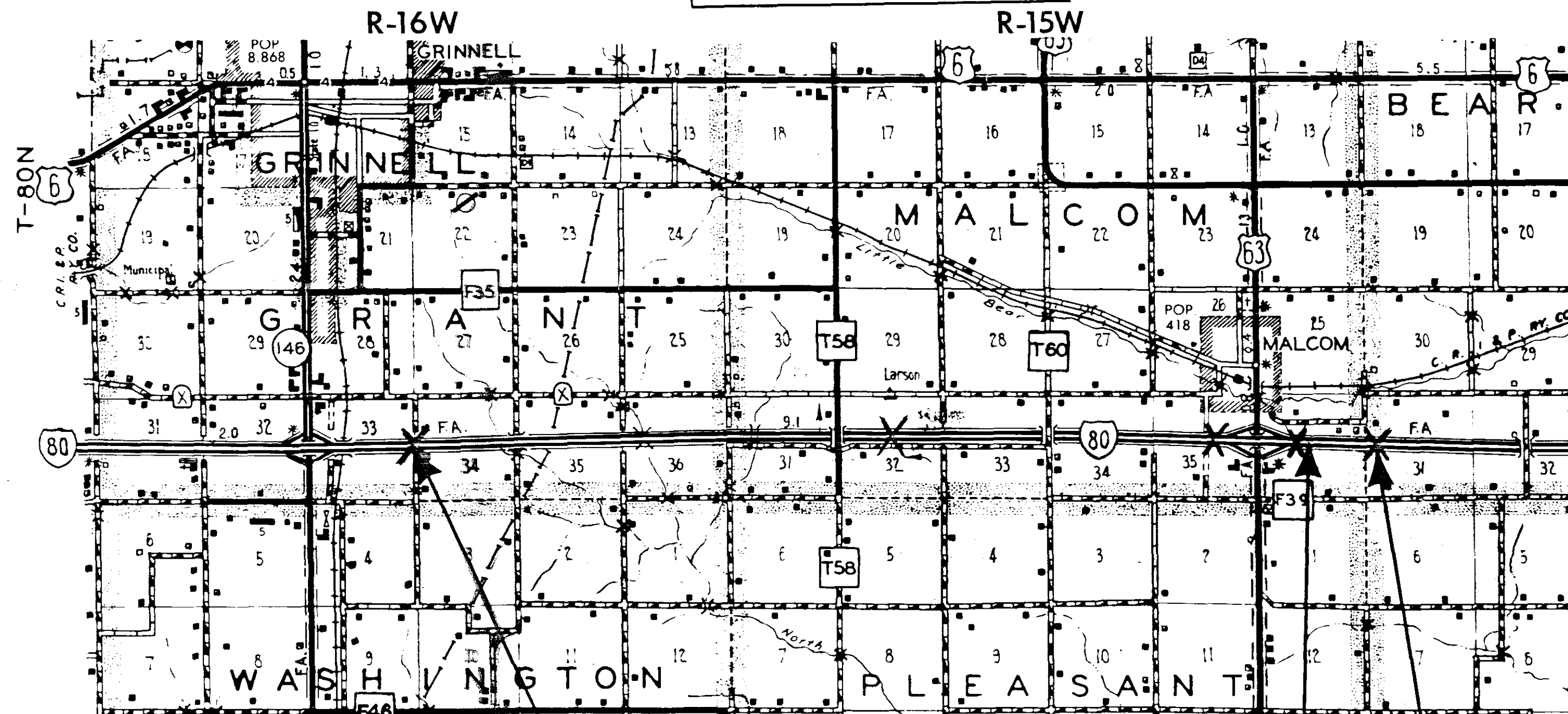
SCALE: As Noted

THE STANDARD SPECIFICATIONS, SERIES OF 1984
OF THE IOWA DEPARTMENT OF TRANSPORTATION,
SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

DESIGN DATA
INTERSTATE HIGHWAY

1985 AADT	14740	V.P.D.
2005 AADT	20860	V.P.D.
2005 DHV	2538	V.P.H.
TRUCKS	46	%

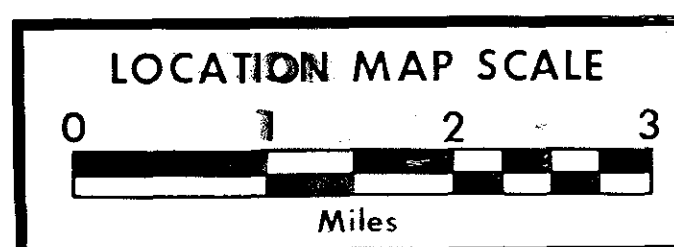
101-7



STA. 159+50.00
BEGIN PROJECT
M.P. 183.63

EQUATION:
STA. 608+24.7
= STA. 708+57.7

STA. 744+00.00
END PROJECT
M.P. 192.77



X = CROSSOVER LOCATION

MILEAGE SUMMARY

DIV.	LOCATION	LIN. FT.	MILES	STATE CONTROL SECTION NO.
	STA. 159+50 TO STA. 608+24.70 DEDUCT BRIDGE STA. 213+41.30 EQUATION: STA. 515+33.00 = STA. 515+26.40 (LENGTHS LINE) EQUATION: STA. 539+77.00 = STA. 539+64.90 (LENGTHS LINE) EQUATION: STA. 563+51.40 = STA. 563+66.00 (SHORTENS LINE) DEDUCT BRIDGE STA. 585+51.36 EQUATION: STA. 608+24.70 = STA. 708+57.70 STA. 708+57.70 TO STA. 712+60.00 STA. 712+60.00 TO STA. 744+00.00 TOTAL NET LENGTH OF PROJECT	44874.70 114.50 6.60 12.10 14.60 226.58 402.30 3140.00 48080.02	9.106	79-0300 79-0400

175

INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2A-C	TYPICAL CROSS SECTIONS
3A-C	ESTIMATE OF QUANTITIES TABULATIONS, AND GENERAL INFORMATION-E.W.O'S
4-20	PLAN & PROFILE STA. 159+50 TO STA. 744+00
21	DETAILS OF LONGITUDINAL SUBDRAIN
22-23	DETAILS OF CROSSOVERS
24	DETAILS OF BARRICADES FOR CROSSOVERS
25	DETAILS OF FLOODLIGHTING
26	DETAILS OF CONCRETE BARRIER RAIL
27	DETAILS OF IMPACT ATTENUATORS
28	PAVEMENT JOINTING DETAILS
29	SPECIAL C.F. JOINT
30-33	DETAILS OF TRAFFIC CONTROL

TRAFFIC CONTROL DETAIL SHEET(S)

The following traffic control Detail Sheets shall be considered applicable to construction work on this Project.						
520 thru 525 series as listed in Traffic Control Manual						Special Sheets in this Plan
Ident.	Date	Ident.	Date	Ident.	Date	No. Remarks
521-2A	1-23-85	521-4	1-20-84			2 Crossover
The Traffic Control Plan is stated along with the Construction Staging Notes on Sheet No. 3B.						

STANDARD ROAD PLANS

The following Standard Road Plans shall be considered applicable to construction work on this project.					
IDENT	DATE	IDENT	DATE	IDENT	DATE
RF-2	8-16-74	RF-52	1-23-85	RF-48A	1-23-85
RF-41	8-31-84	RF-57	1-23-85	RF-30A	4-1-77
RF-22	6-24-83	RF-12	1-23-85	RF-7	8-31-84

REVISIONS

DATE 2-26-88

Iowa Department of Transportation

Highway Division

AUTHORIZED FOR LETTING
Raymond J. Schenck 2-4-85
DEPUTY CHIEF ENGINEER DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED

FOR THE DIVISION ADMINISTRATOR DATE

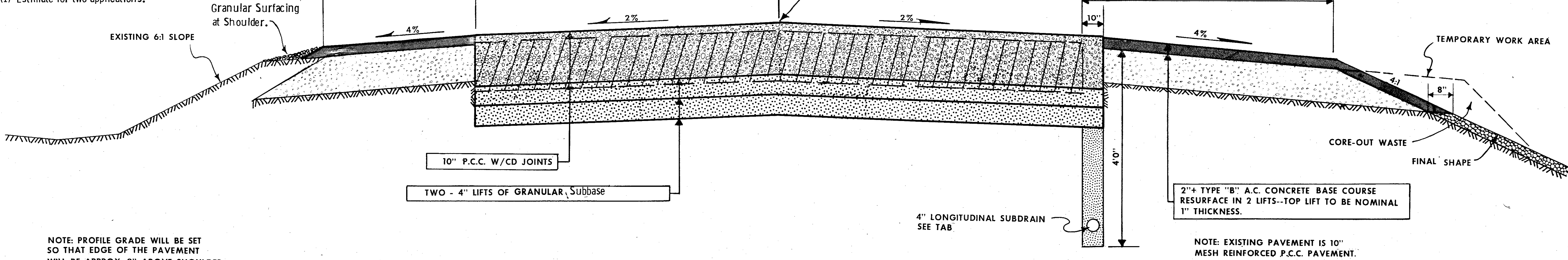
I hereby certify that this plan was prepared under my supervision and that engineering decisions with regard to the design were made by me or by other duly Registered Professional Engineers under the laws of the State of Iowa.
Name *R. J. Schenck*
Iowa Registration No. 4165 Date 1/31/85



George F. Sisson
ROAD DESIGN ENGINEER DATE 1/31/85

DESIGN QUANTITIES (Per Station)		
ITEM	RATE	VOLUME
Tack Coat	0.05 gal./sq.yd.	21.47 gal./Sta.(1)
Surface Course	140 lbs./cu.ft.	22.6 Tons/Sta.
Granular Surfacing of Shoulders		4 Tons/Station
Asphalt Cement	6%	1.35 Tons/Station

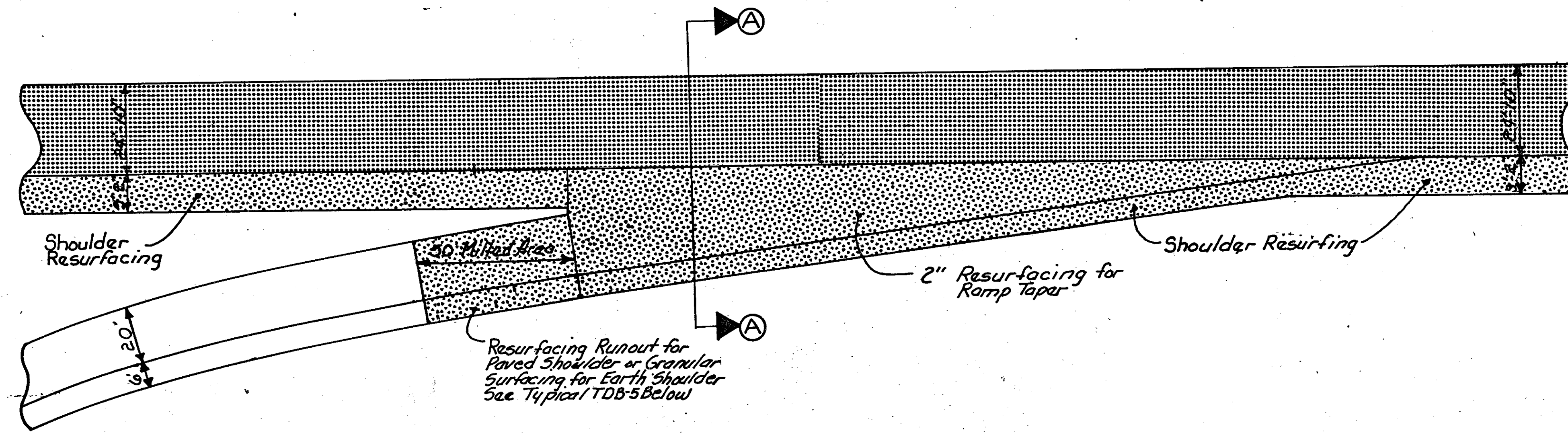
(1) Estimate for two applications.



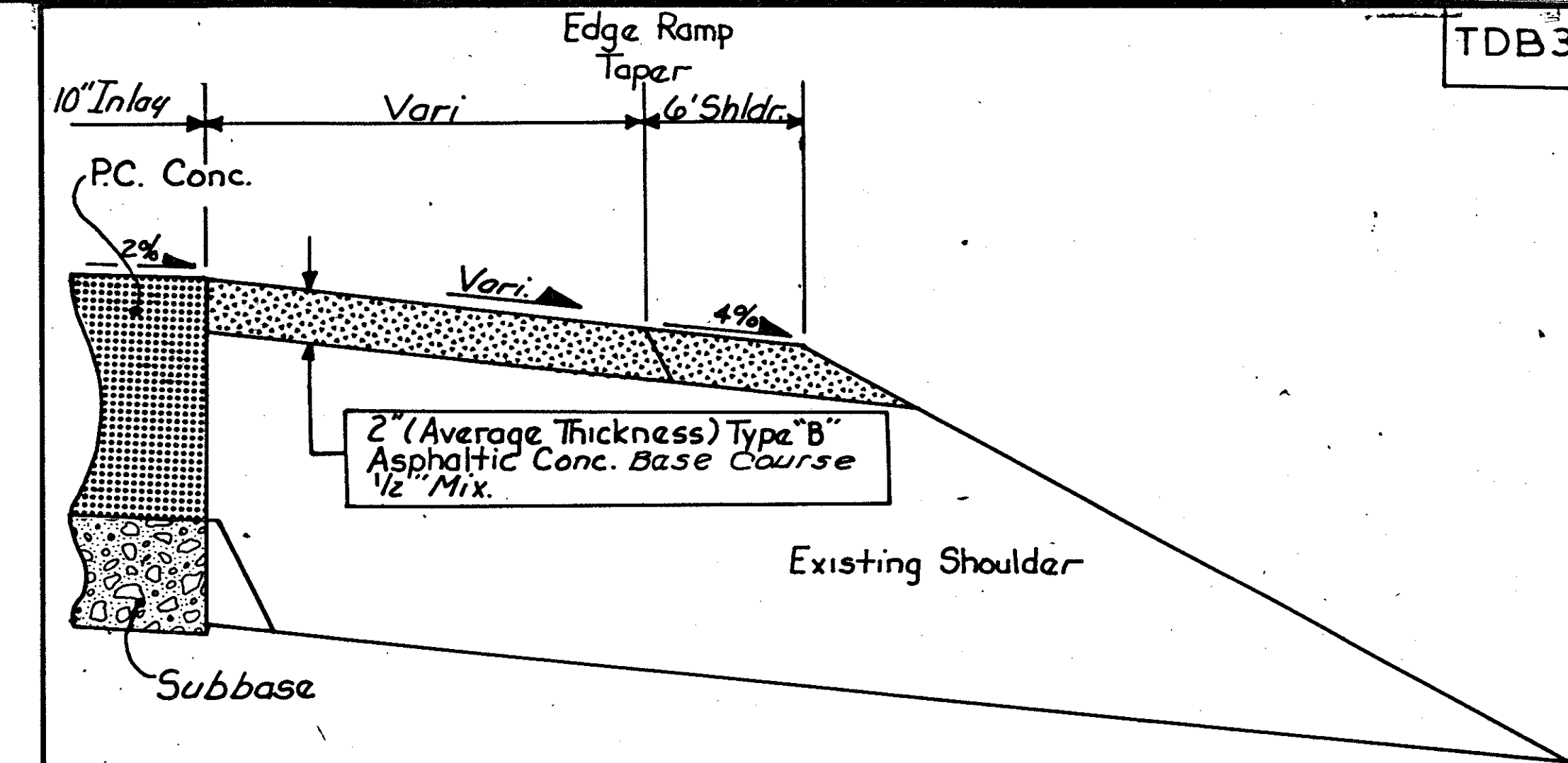
TYPICAL CROSS SECTION
PROPOSED P.C.C. INLAY

ROAD ID.	STAGE	STATION to STATION		REMARKS
I-80 E. B.	2	159+50	401+50	
I-80 E. B.	3	401+50	744+00	Requires 12" of "M" mix with no subbase
				Sta. 569+55 to Sta. 570+95
				Sta. 602+25 to Sta. 603+65

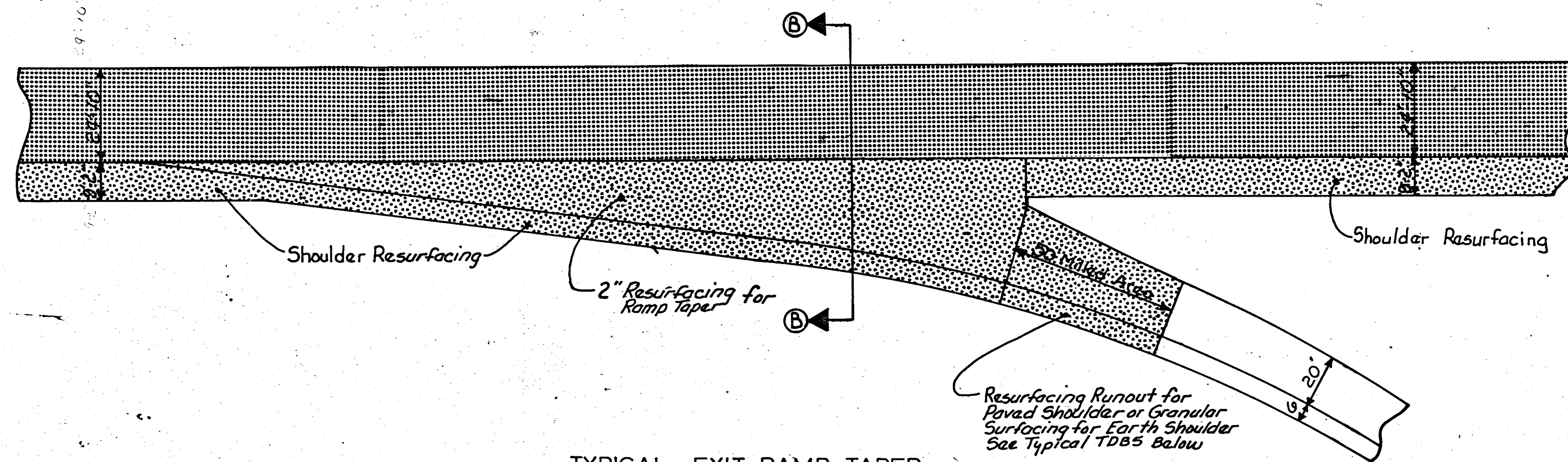
NOTE:
Contractor may use excavation material from subdrain and core out for subbase to initially build a temporary haul road on the outside foreslope. Later the material is to be wasted along the project to flatten the foreslopes. The final shape shall be uniform and shaped to meet existing structures. In some areas, there might not be sufficient room to waste the material without disrupting drainage as determined by the engineer. Thence, the contractor is to haul out material to be spread at other locations as directed by the engineer. Excavated material is not to be placed in the median.



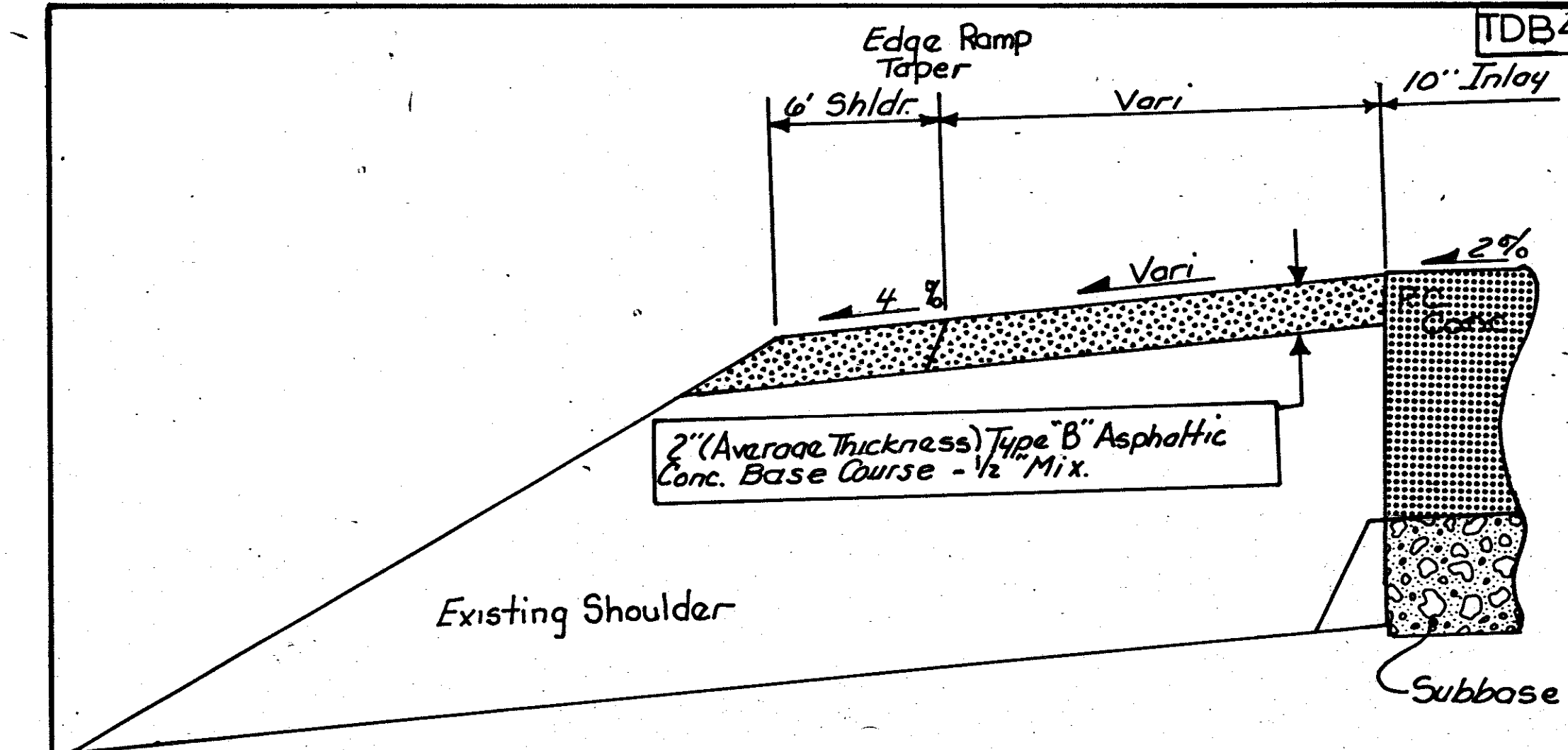
TYPICAL ENTRANCE RAMP TAPER RESURFACING



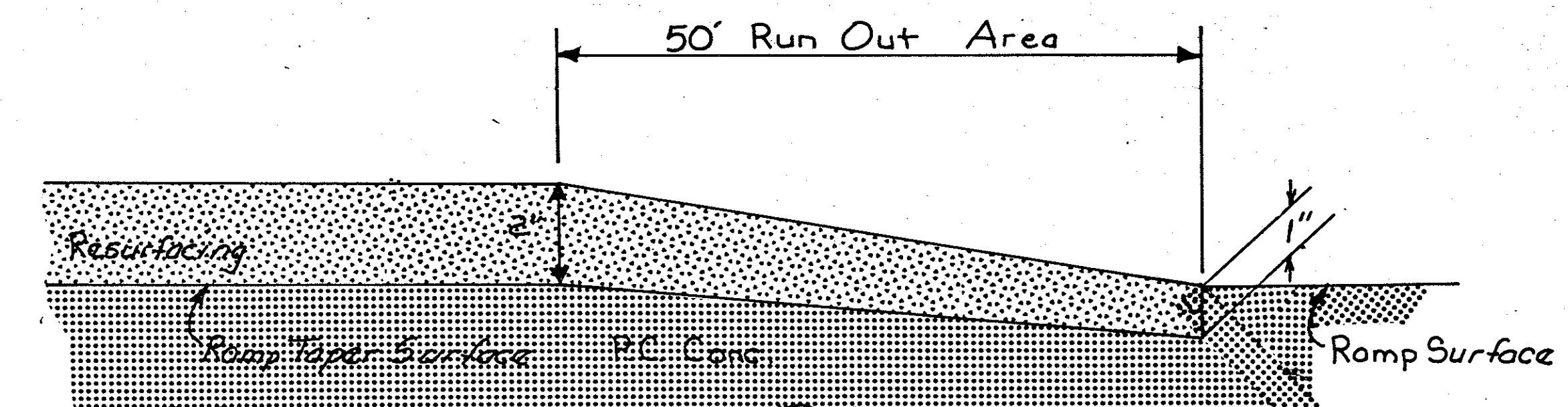
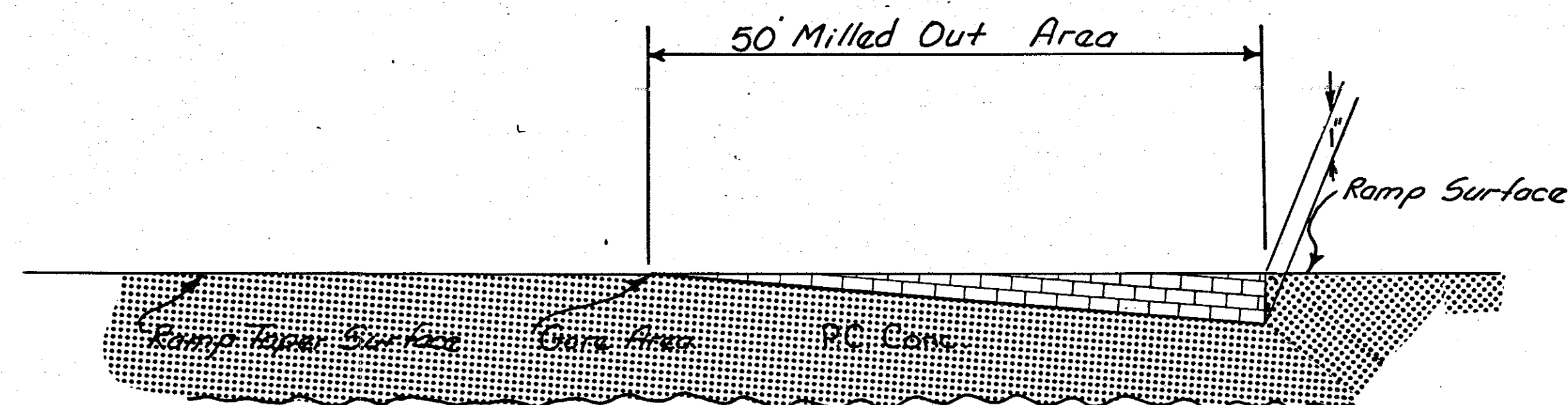
SECTION A-A



TYPICAL EXIT RAMP TAPER RESURFACING

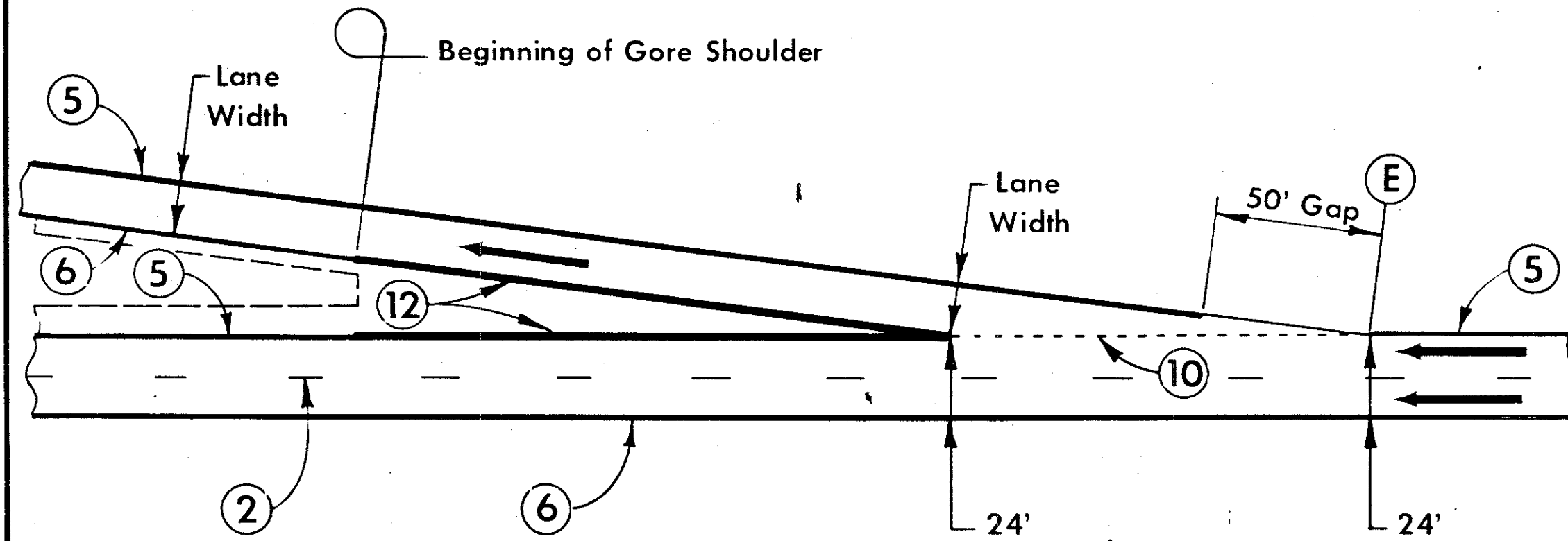


SECTION B-B



RAMP MILLING AND RUNOUT DETAIL

9302
1-23-85

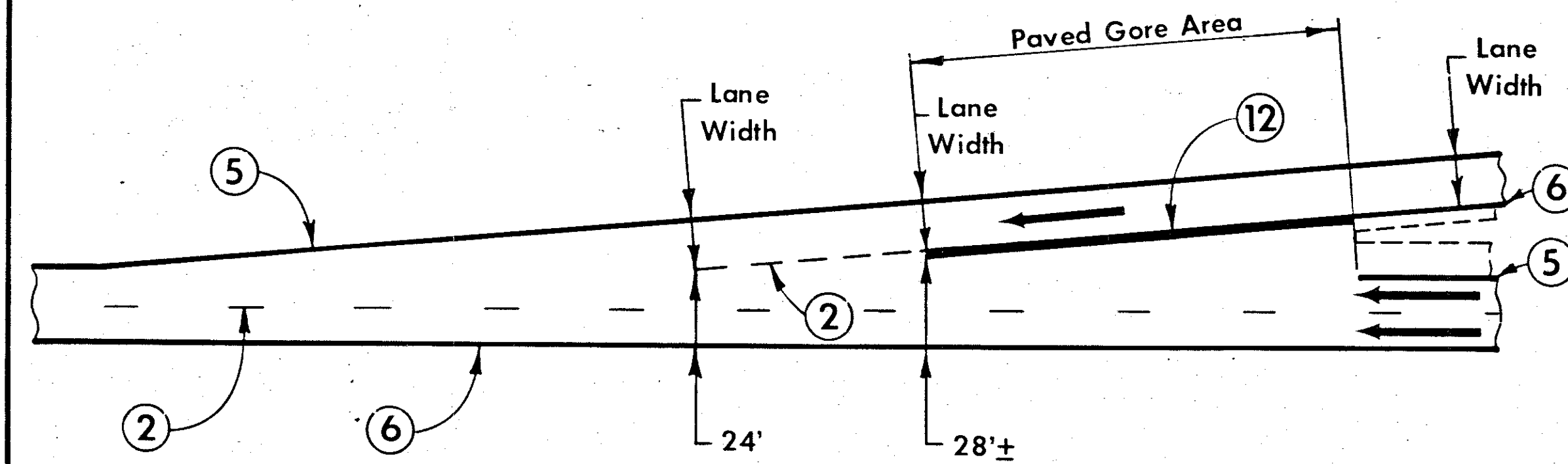


- ② White Lane Line (Broken)
- ⑤ White Edge Line
- ⑥ Yellow Edge Line
- ⑩ White Segment Line (Dotted)
- ⑫ White Gore Line
- Ⓔ Terminate Edge Line at Beginning of Radius or Taper

For location details
See Typical Detail
9001

PAVEMENT MARKINGS
Tapered Deceleration Lane

9301
1-23-85



- ② White Lane Line (Broken)
- ⑤ White Edge Line
- ⑥ Yellow Edge Line
- ⑫ White Gore Line

For location details See
Typical Detail 9001

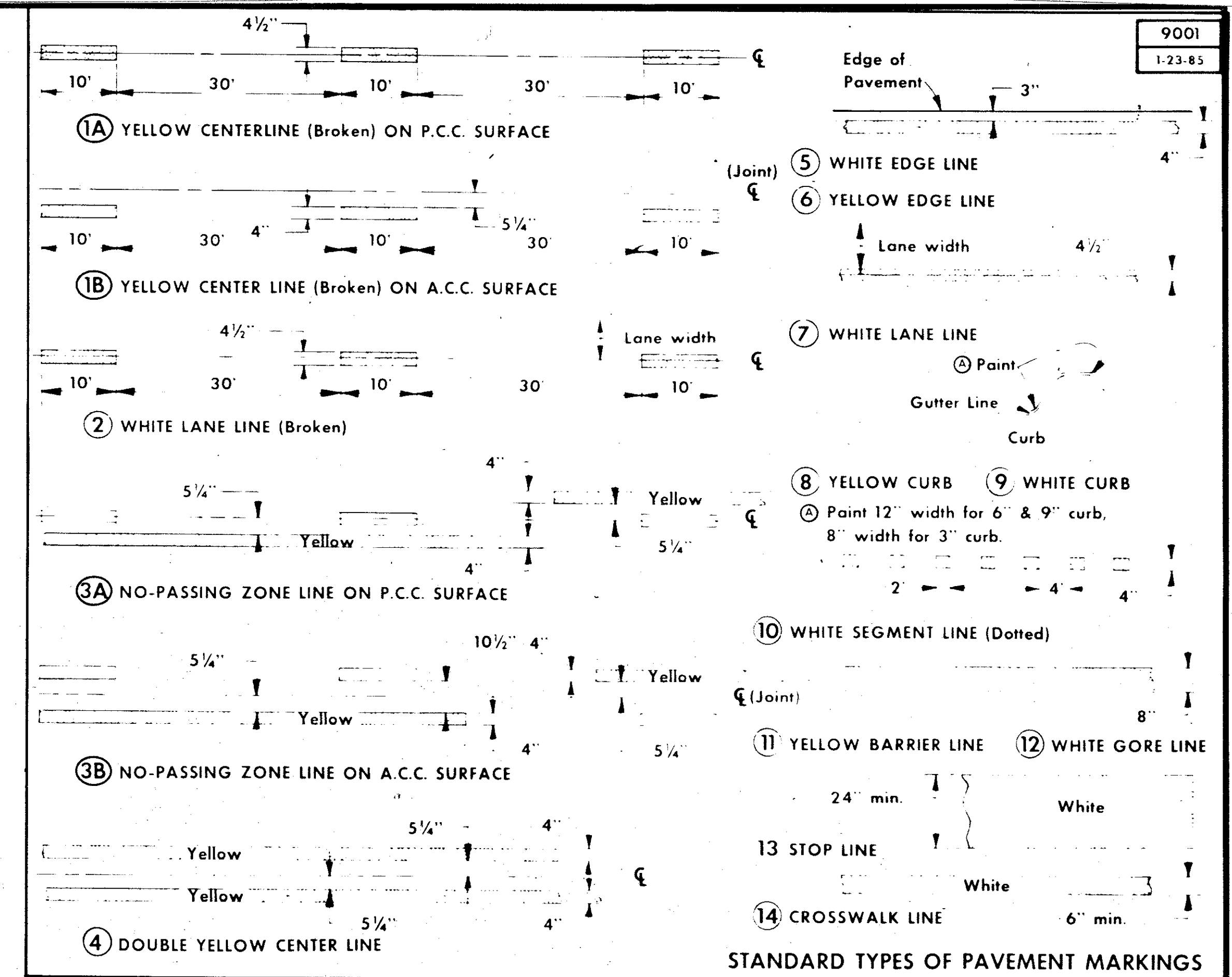
PAVEMENT MARKINGS
Tapered Acceleration Lane

TABULATION OF EXISTING PAVEMENT

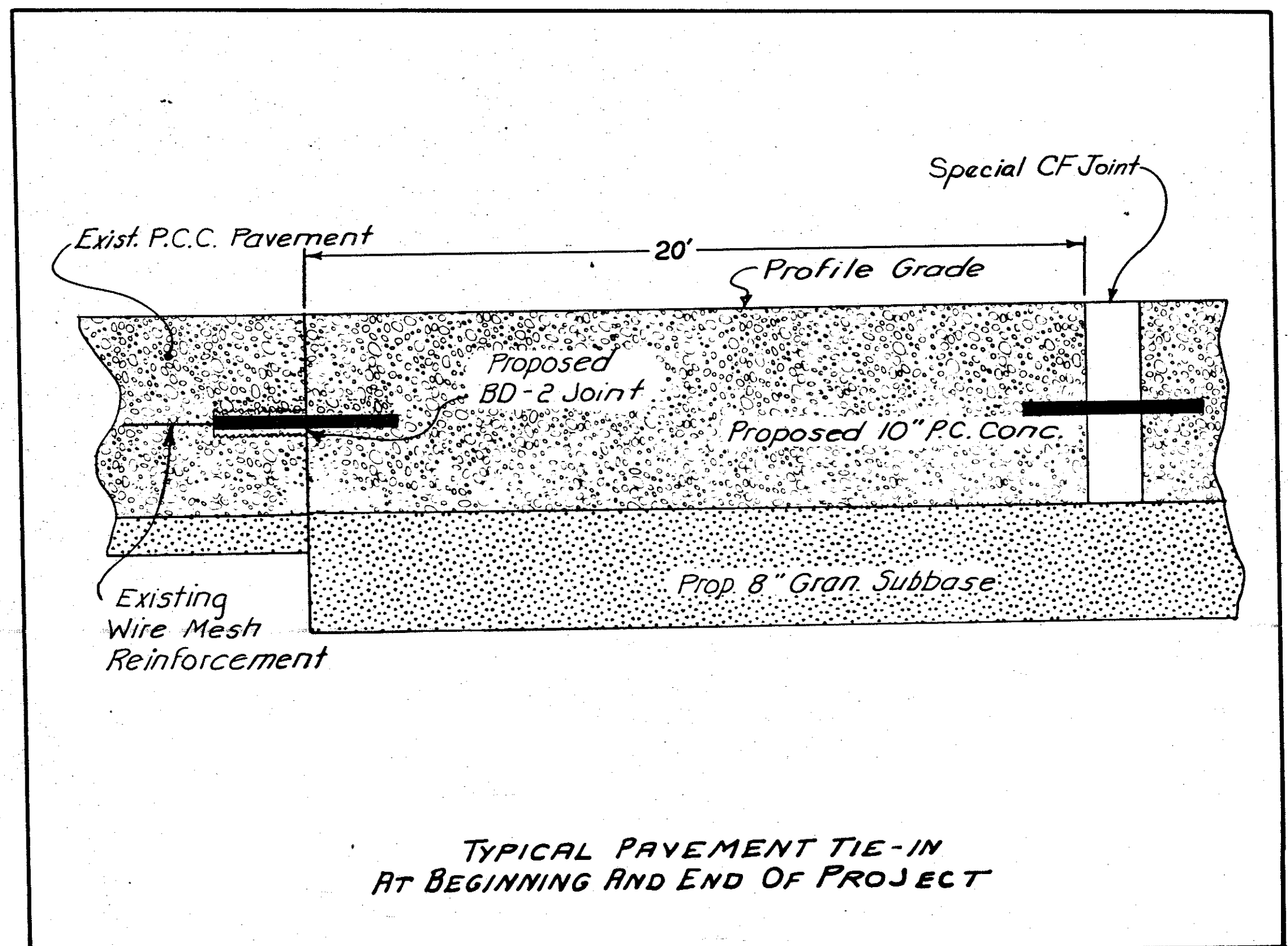
102-5
2-12-82

No.	LOCATION	EXISTING PAVEMENT TYPE	COARSE AGGREGATE TYPE	PAVEMENT THICKNESS inches	REINFORCEMENT	DETAIL TYPICAL
1	I-80 M. P. 184 to M. P. 206 (V-38 Interchange)	P.C.C.	Malcom Stone (Limestone)	10"	Standard Mesh	SMR-1
Note: All pavements have granular subbase.						

9001
1-23-85



STANDARD TYPES OF PAVEMENT MARKINGS



TYPICAL PAVEMENT TIE-IN
AT BEGINNING AND END OF PROJECT

1-23-85

ITEM NO.	DESCRIPTION
----------	-------------

-
- 7225
1-21-85
- Top of Pavement
- Silicone Joint Sealer
- $\frac{3}{8}"$
- $\frac{1}{8}" \pm \frac{1}{16}"$
- Clean proposed depth of sealer by Sandcleaning
- 1"
- $\frac{1}{2}"$ Polyethylene Backer Rope (Closed cell, non-absorbent material)
- Seal end of joint with tape
- $\frac{3}{8}"$ min.
- $\frac{1}{4}"$
- $\frac{1}{8}"$
- SILICONE SEALED JOINT**

1-23-85

ITEM NO.	DESCRIPTION
----------	-------------

- _____

	<h2 style="margin: 0;">ROADWAY DESIGN</h2>
	<p>I hereby certify that this plan was prepared under my supervision and that engineering decisions with regard to the design were made by me or by other duly Registered Professional Engineers under the laws of the State of Iowa.</p> <p>Name <u>John R. Keane</u></p> <p>Iowa Registration No. <u>7229</u> Date <u>1/31/85</u></p>

Plan and profile sheets included in the project are for the purpose of alignment, location and specific directions for the work to be performed under this contract. Irrelevant data on these sheets is not to be considered a part of this contract.

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material which is not desirable to be incorporated in the work involved on this project (excavation or broken concrete). No payment for overhaul will be allowed for material hauled to these sites.

In order to avoid any unnecessary surface breaks or premature spalling the contractor is cautioned to exercise extreme care when performing any of the necessary saw cutting operations for the proposed pavement removal.

The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service area(s) will be subject to the approval of the resident engineer.

[illegible]

Construction operations in this area will disrupt traffic on Interstate No. 80, and U.S. 63. Therefore, it is advisable to adopt a construction sequence which directs activities in an orderly manner to maintain traffic on Interstate No. 80 and the U.S. 63 Interchange. Exit and Entrance ramps at all times.

As various activities related to construction progress, certain situations may arise which preclude adhering to the original construction sequence, or which, in the opinion of the contractor, would readily adapt itself to a more efficient staging operation. Should this occur, and the contractor desires to deviate from the original plan, he shall submit an alternate plan for approval by the Engineer.

Phase 1: ~~XXXXXX~~ Modify ~~XXXXXX~~ median crossovers. Median crossovers shall be constructed with pavement edge elevation equal to the finished inlay pavement elevation.

Phase 1: Place two-way traffic on the Westbound Roadway from Sta. 159+50 to Sta. 401+50 when the contractor is ready to remove pavement on the Eastbound Roadway from Sta. 159+50 to Sta. 401+50.

Phase 2: Reconstruct pavement from Sta. 159+50 to Sta. 401+50.

Phase 3: Complete construction on this portion of the Eastbound Roadway and open to normal traffic patterns.

Phase 1: Place two-way traffic on the Westbound Roadway from Sta. 401+50 to Sta. 744+00. Use 12" Class "M" P.C. Pavement with no subbase from Sta. 569+55 to Sta. 570+95 and Sta. 602+25 to Sta. 603+65 to facilitate maintaining ramp traffic at the U.S. 63 Interchange during construction. New Pavement is to be placed the same day as the old pavement is removed. Each of these areas is to be constructed in two stages so traffic can be maintained at all times. D-3 joints are to be placed on a 30° skew, right ahead, at approx. Sta. 570+25 and Sta. 602+95

Phase 2: Reconstruct pavement from Sta. 401+50 to Sta. 744+00.

Phase 3: Complete construction on this portion of the Eastbound Roadway and open to normal traffic patterns.

(Median crossovers are to be left in place upon project completion.)

1. Through traffic will be maintained on the project at all times.
2. Traffic control on this project shall be in accordance with Modified Detail Sheet 521-2A, Detail Sheet 521-4 and the special layouts contained in the plans. For additional complementary information, refer to current Supplemental Specification for Traffic Controls.
3. Traffic control for the construction of median cross-overs shall be in accordance with Modified Detail Sheet 521-2A and Detail Sheet 521-4, as applicable.
4. Where possible, all post mounted signs shall be placed a minimum of 2 feet clear of the shoulder.
5. The contractor shall provide 24 hour surveillance and maintenance of all traffic control devices.
6. As directed by the engineer, the contractor shall cover any existing signing that conflicts with construction zone signing.
7. All traffic control devices shall be furnished, erected, maintained and removed by the contractor.
8. The engineer may require modification of, or additions to pavement marking details shown. Conflicting permanent edgelines or lanelines shall be removed and replaced with appropriate temporary lines. As applicable, permanent edgelines and lanelines shall be restored before the roadway is returned to normal traffic. Current 1984 Standard Specifications shall apply.
9. The location for overnight storage of equipment by the contractor shall be approved by the engineer in charge of construction. Parking of private vehicles on interstate right-of-way will not be allowed. Parking of unattended equipment within the median, or overnight storage of equipment within 50' of the edge of pavement will not be allowed.
10. Proposed sign spacing may be modified, as approved by the engineer, to meet existing field restrictions, or to prevent obstruction of the motorist's view of permanent signing.
11. Proposed changes in the Traffic Control Plan (includes layout sheets) shall be reviewed with the Office of Construction before changes are made.
12. The bid item "Traffic Control" shall include the cost for all traffic control measures required of the contractor except for those which are separate bid items or are incidental to other bid items.

TABULATION OF Crossover LOCATIONS		
STATION	Remarks	Reference Sheet No.
159+50	Requires 18" CMP Extension	22
401+50	Dry	22
744+00	Requires 18" CMP Extension	22
569+25	Requires 18" CMP Extension	23
603+25	Requires 18" CMP Extension	23

1 Crossovers already in place were built with the 1984 I-80 Westbound Overlay Project and need to be modified to conform to the details shown on sheets 22 and 23.

TABULATION OF LONGITUDINAL SUBDRAIN

Shoulder and Backslope

104-9

12-09-83

*Not a bid item

LOCATION						LONGITUDINAL SUBDRAIN				C M P SUBDRAIN OUTLET		Porous Backfill	Class "A" * Crushed Stone	REMARKS
Line No.	Road or Lane Ident.	Station to Station		Side	Depth (D) inches	SHOULDER		BACKSLOPE		Station	Size	Cu. Yds.	Cu. Yds.	
						Refer to 500-7		Refer to Soils Sheets						
1	E B	159+44	172+90	RT	48	4"	1344			165+53	6"	71	0.2	B.O.P
2	E B	173+05	175+95	RT	48	4"	281			172+90	6"		0.2	
3	E B	176+10	179+85	RT	48	4"	377			175+95	6"	15	0.2	
4	E B	180+08	182+95	RT	48	4"	285			176+10	6"	20	0.2	
5	E B	183+05	190+35	RT	48	4"	733			180+08	6"	15	0.2	
6	E B	190+53	195+35	RT	48	4"	483			183+05	6"	39	0.2	
7	E B	195+50	199+25	RT	48	4"	365			190+53	6"	25	0.2	
8	E B	199+35	202+95	RT	48	4"	354			195+35	6"		0.2	
9	E B	203+05	209+20	RT	48	4"	615			199+25	6"	19	0.2	
10	E B	209+30	212+20	RT	48	4"	290			202+95	6"	19	0.2	
11	E B	214+70	223+80	RT	48	4"	906			209+20	6"	32	0.2	
12	E B	223+85	232+95	RT	48	4"	898			209+30	6"	15	0.2	
13	E B	233+05	243+00	RT	48	4"	984			214+70	6"	48	0.2	
14	E B	243+05	259+95	RT	48	4"	1685			217+67	6"		0.2	
15	E B	260+05	268+15	RT	48	4"	810			223+85	6"	47	0.2	
16	E B	268+42	330+50	RT	48	4"	6171			233+05	6"	52	0.2	
										243+05	6"	89	0.2	
										259+95	6"		0.2	
										268+15	6"	43	0.2	
										272+50	6"	325	0.2	
										284+00	6"		0.2	
										288+85	6"		0.2	
										308+00	6"		0.2	
										320+00	6"		0.2	
										330+50	6"		0.2	
17	E B	330+50	335+45	RT	48	4"	492			330+50	6"	26	0.2	
18	E B	335+55	337+00	RT	48	4"	8			335+55	6"	8	0.2	
19	E B	337+15	377+45	RT	48	4"	4028			337+15	6"	212	0.2	
										348+00	6"		0.2	
										369+00	6"		0.2	
										377+45	6"		0.2	
20	E B	377+55	382+25	RT	48	4"	468			377+55	6"	25	0.2	
21	E B	382+50	386+95	RT	48	4"	443			382+50	6"	23	0.2	
22	E B	387+05	414+73	RT	48	4"	2767			387+05	6"	146	0.2	
										409+00	6"		0.2	
										414+73	6"		0.2	
23	E B	414+89	452+85	RT	48	4"	3796			421+00	6"	200	0.2	
										429+00	6"		0.2	
										445+00	6"		0.2	
										452+85	6"		0.2	
24	E B	452+95	502+95	RT	48	4"	5000			464+00	6"		0.2	
										475+00	6"		0.2	
										485+00	6"		0.2	475+00 DOUBLE OUTLET
										502+95	6"		0.2	
25	E B	503+05	545+52	RT	48	4"	4264			513+00	6"	225	0.2	
										523+00	6"		0.2	
										534+50	6"		0.2	
										545+52	6"		0.2	
26	E B	545+90	561+25	RT	48	4"	1535			553+50	6"	81	0.2	
27	E B	561+70	574+00	RT	48	4"	1216			561+25	6"		0.2	
28	E B	575+05	583+30	RT	48	4"	825			575+70	6"	64	0.2	OFF RAMP
29	E B	587+70	595+25	RT	48	4"	755			575+05	6"	43	0.2	BRIDGE
30	E B	598+00	601+10	RT	48	4"	310			595+25	6"	40	0.2	
31	E B	601+20	713+20	RT	48	4"	1167			601+10	6"	16	0.2	ON RAMP
32	E B	713+30	715+45	RT	48	4"	215			713+20	6"	61	0.2	THRU EQUATION
33	E B	715+55	719+50	RT	48	4"	395			713+30	6"	11	0.2	
34	E B	719+65	729+85	RT	48	4"	1020			715+55	6"	21	0.2	
35	E B	729+95	739+55	RT	48	4"	960			719+65	6"	54	0.2	
36	E B	739+66	744+00	RT	48	4"	434			729+85	6"		0.2	
										739+55	6"	51	0.2	
										739+66	6"	23	0.2	
										744+00	6"		0.2	E.O.P

TABULATION OF GRADING FOR GUARDRAIL INSTALLATIONS

*Refer to RL-11 or Typical 4303 and 4306

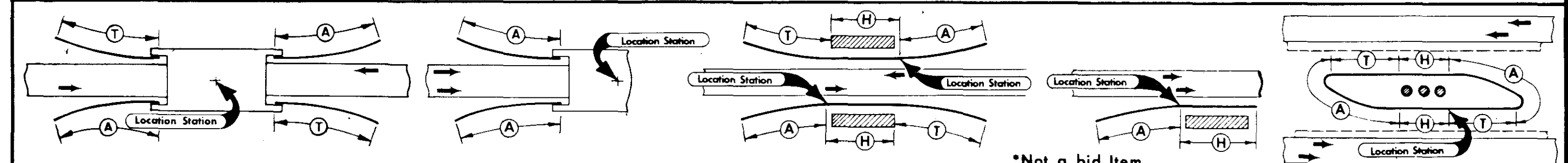
HAZARD LOCATION (Station)	LOCATION POINT (Station)	INSTAL-LATION (Type)	DIMENSIONS*			CLASS 10 EXCAVATION (Cu. Yds.)	PIPE		REMARKS
			(A) (Lin. Ft.)	(Y) (Lin. Ft.)	(Z) (Lin. Ft.)		Size (Inches)	Length (Lin. Ft.)	
213+41.3	212+22.5	1	62.5	7.5	28	200			
585+51.36	583+77.0	1	62.5	3.8	14	50			

REMOVAL OF PAVEMENT

Station to Station		Area Sq. Yds.	Remarks
159+50	212+84	14 224	
213+99	584+38	98 790	Includes Box Out
586+65	744+00	15 215	Includes Box Out
566+50	574+00	72	10' Exit Ramp Taper
597+65	605+50	72	10' Ent. Ramp Taper

TABULATION OF "W" BEAM GUARDRAIL INSTALLATIONS

(Refer to appropriate Standard Road Plans)



*Not a bid item

LOCATION		STANDARD ROAD PLAN	FORMED STEEL "W" BEAM GUARDRAIL Case	BEAM GUARDRAIL POSTS				BEAM GUARDRAIL END ANCHORAGE				REMARKS
NO.	STATION			(L2) (Feet)	(A) Lin. Ft.	(H) Lin. Ft.	(T) Lin. Ft.	10"x10" SINGLE SPACER	8"x8" SINGLE SPACER	8"x8" NO. NO.	6"x8" NO. NO.	
1	213+41.3	RE-57	G				62.5	62.5	3	8	2	
2	585+51.36	RE-57	H				62.5	62.5	3	8	2	

(1) To be installed on N.W. Corner of W.B. Roadway Bridge prior to placing two-way traffic on W.B. Roadway. Guardrail to be left in place after completion of project.

TABULATION OF PAVEMENT MARKINGS

- (1A) Yellow Center Line (Broken) on P.C. Pav't. (2) White Lane Line (Broken) on P.C. Pav't. (4) Double Yellow Center Line on P.C. Pav't. (7) White Lane Line on A.C. Pav't. (10) White Segment Line (Dotted) on A.C. Pav't. (13) Stop Line
 (1B) Yellow Center Line (Broken) on A.C. Pav't. (3A) No-Passing Zone Line on P.C. Pav't. (5) White Edge Line on P.C. Pav't. (8) Yellow Curb on P.C. Pav't. (11) Yellow Barrier Line on P.C. Pav't. (14) Crosswalk Line
 (3B) No Passing Zone Line on A.C. Pav't. (6) Yellow Edge Line on A.C. Pav't. (9) White Curb on A.C. Pav't. (12) White Gore Line on A.C. Pav't. (15)

LOCATION					LENGTH (In Stations)															Remarks		
Road Ident.	(1) Station to Station		Side		(1A)	(1B)	(2)	(3A)	(3B)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)		(14)	(15)
			L	R																		
I-80	159+50	744+00 WB	x	x						572.44	569.39								0.20			Poly
I-80	159+50	744+00 WB	x	x			151.88					597.63							0.12			Perm.
I-80	159+50	744+00 EB	x	x			153.88				581.04	591.53				13.50		12.80				Perm.
	Subtotal						305.68			572.44	1150.43	1189.16				13.50		12.80	0.32			
I-80	C.O. 1	159+50	x	x							1.75	8.45										Paint Rem
I-80	C.O. 1	159+50	x	x							1.75	1.75										Paint
I-80	C.O. 1	159+50	x	x							21.30	8.00										Poly
I-80	C.O. 2	401+50	x	x							1.85	10.89										Paint Rem
I-80	C.O. 2	401+50	x	x							1.85	1.85										Paint
I-80	C.O. 2	401+50	x	x							4.20	29.20										Poly
I-80	C.O. 3	401+50	x	x							1.85	1.85										Paint Rem
I-80	C.O. 3	401+50	x	x							1.85	1.85										Paint
I-80	C.O. 3	401+50	x	x							21.30	8.00										Poly
I-80	C.O. 4	569+25	x	x							0.35	2.30										Paint Rem
I-80	C.O. 4	569+25	x	x							0.35	0.30										Paint
I-80	C.O. 4	569+25	x	x							2.00	1.65										Poly
I-80	C.O. 5	603+25	x	x							0.35	2.30										Paint Rem
I-80	C.O. 5	603+25	x	x							0.35	0.30										Paint
I-80	C.O. 5	603+25	x	x							1.05	0.70										Poly
I-80	C.O. 6	744+00	x	x							1.85	7.30										Paint Rem
I-80	C.O. 6	744+00	x	x							1.85	1.85										Paint
I-80	C.O. 6	744+00	x	x							4.20	29.20										Poly
	Subtotal										70.05	117.74										
	Gross Total						305.68			572.44	1220.48	1306.90				13.50		12.80	0.32			
	Factor						1.0			2.0	1.0	1.0				0.33		2.0	3.0			Bid Item=
	Net Total						305.68			1144.88	1220.48	1306.90				4.46		25.60	0.96			4008.96St

(1) C.O. = Crossover

TABULATION OF DELINEATORS AND OBJECT MARKERS

Refer to Standard Road Plan RE-48A-B* and RE-29C

**Not a Bid Item

LOCATION		DELINEATOR	OBJECT MARKER				REMARKS
STATION	TYPE*	SINGLE WHITE D-1W	TRIPLE YELLOW OM2-3YV	TYPE 3		OFFSET BRACKETS ..	
		NO.	NO.	OM-3L NO.	OM-3R NO.		
213+41	3			1		1	N.W. Cor.
585+51	1		2	1		1	N.W. Cor.

Poweshiek COUNTY

PROJECT NUMBER IR-80-5(09)182-12-79

STATE IOWA FED. ROAD DIST. NO. 5 FISCAL YEAR SHEET NO. 30 TOTAL SHEETS 37

Property Owners:
A-Ralph Fleener
B-George A. Hyde

GRANT TWP.
T80N R16W

Ref To P.T. Sta 160+45.8

Ref To P.T. Sta 165+01.9

$\Delta=6^{\circ}51'14''$
 $D=0^{\circ}45'$
 $T=457.2'$
 $L=913.3'$
 $E=13.7'$
 $R=7640.0'$

SEC. 33

SEC. 34

STA 159+50
BEGIN PROJECT

STA 160+33.00
BEGIN PROJECT

P.O.C. Sta. 160+44.8

P.T. Sta. 165+01.9

P.T. Sta. 165+01.9

L=80-5(15)183

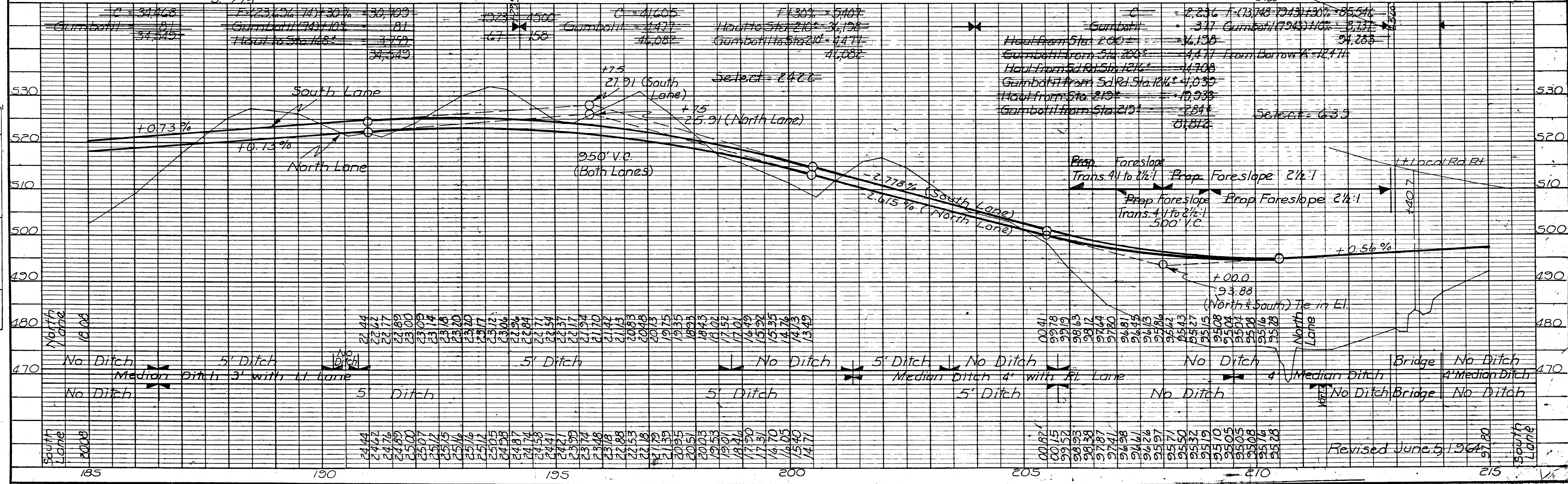
1960 Plans

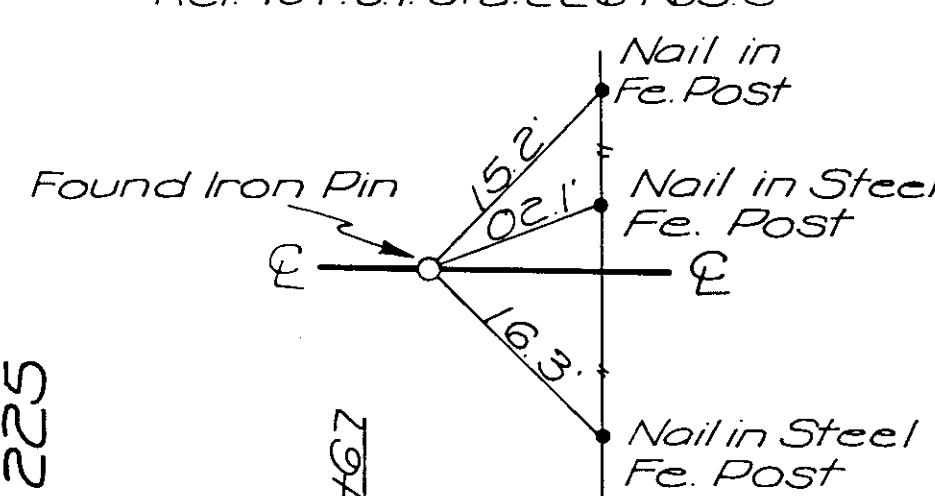
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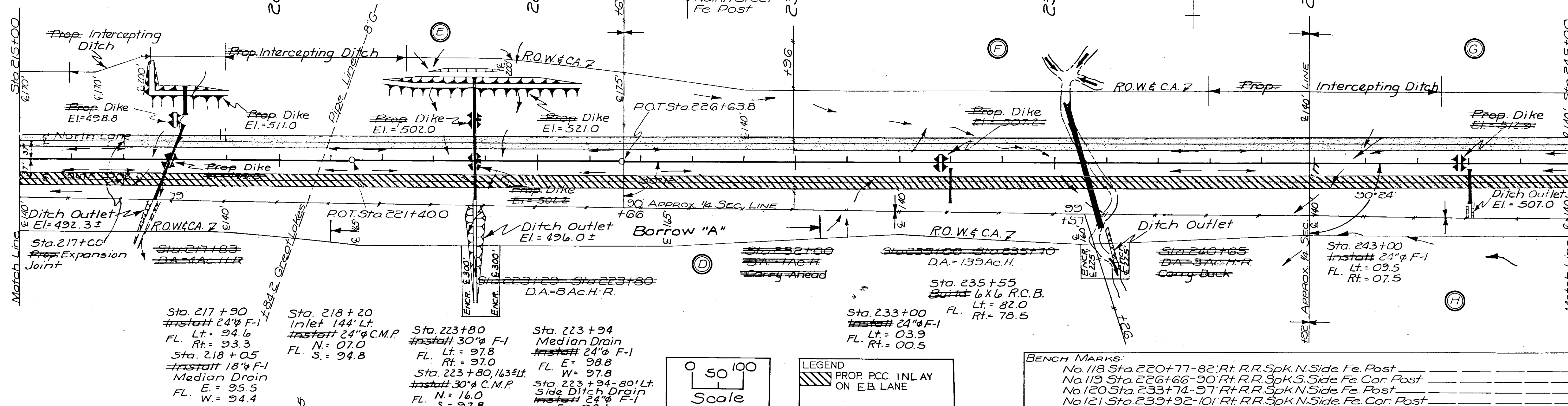
GRANT TWP.
T80N R16W

80-5(31)188
SEC. 35
21

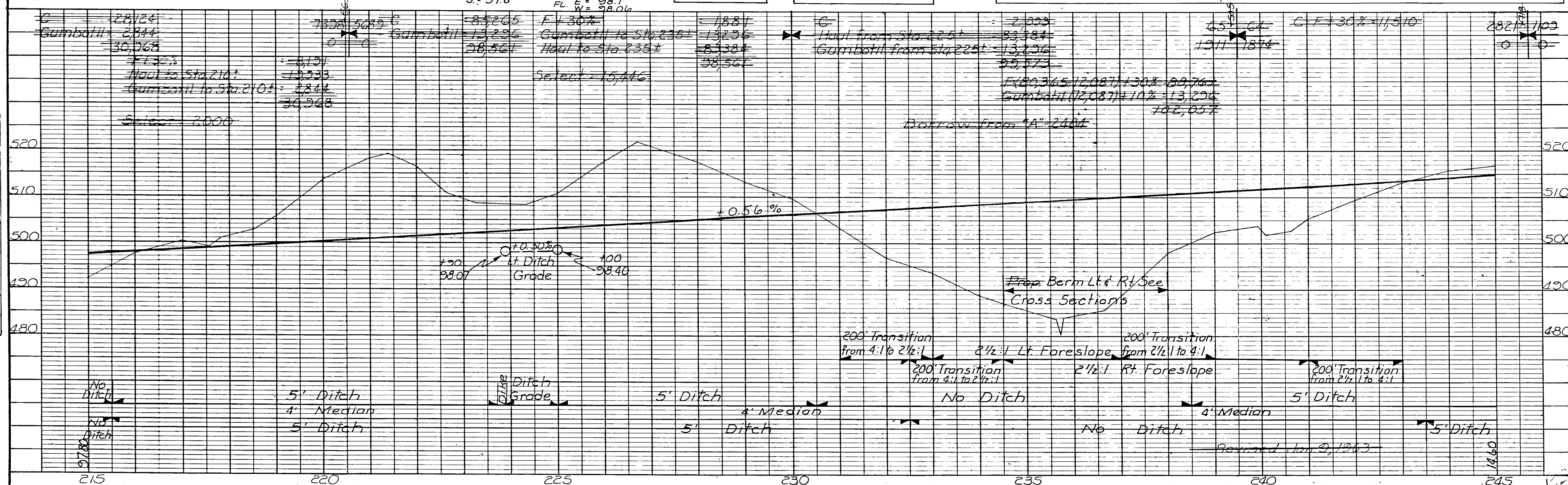




PLAN	SURVEYED _____		BY _____	DATE _____
	PLOTTED _____			
NOTE BOOK	ALIGNMENT CHECKED _____		NO. _____	
	RT. OF WAY CHECKED _____			




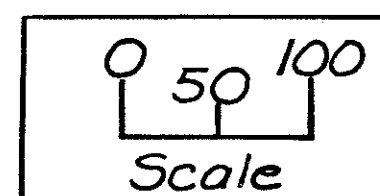
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	GRADES CHECKED		
NO.	B. M. P. NOTED		
	STRUCTURE MOVING CHECKED		



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

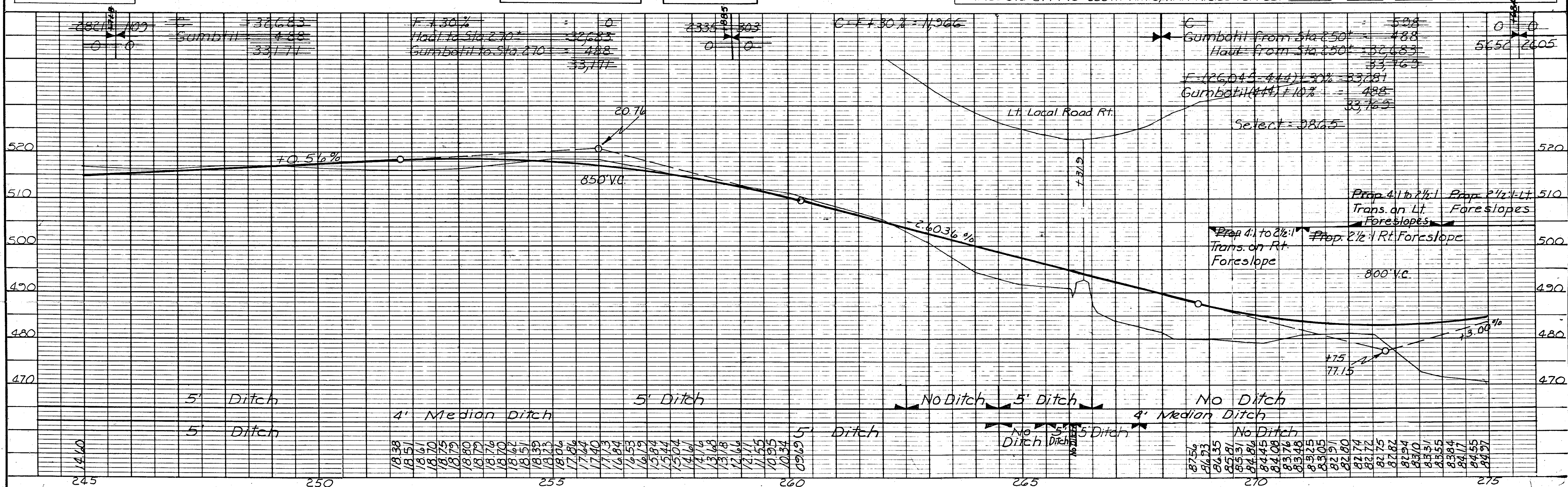


LEGEND
 PROP. P.C.C. INLAY
 OF E.B. LANE

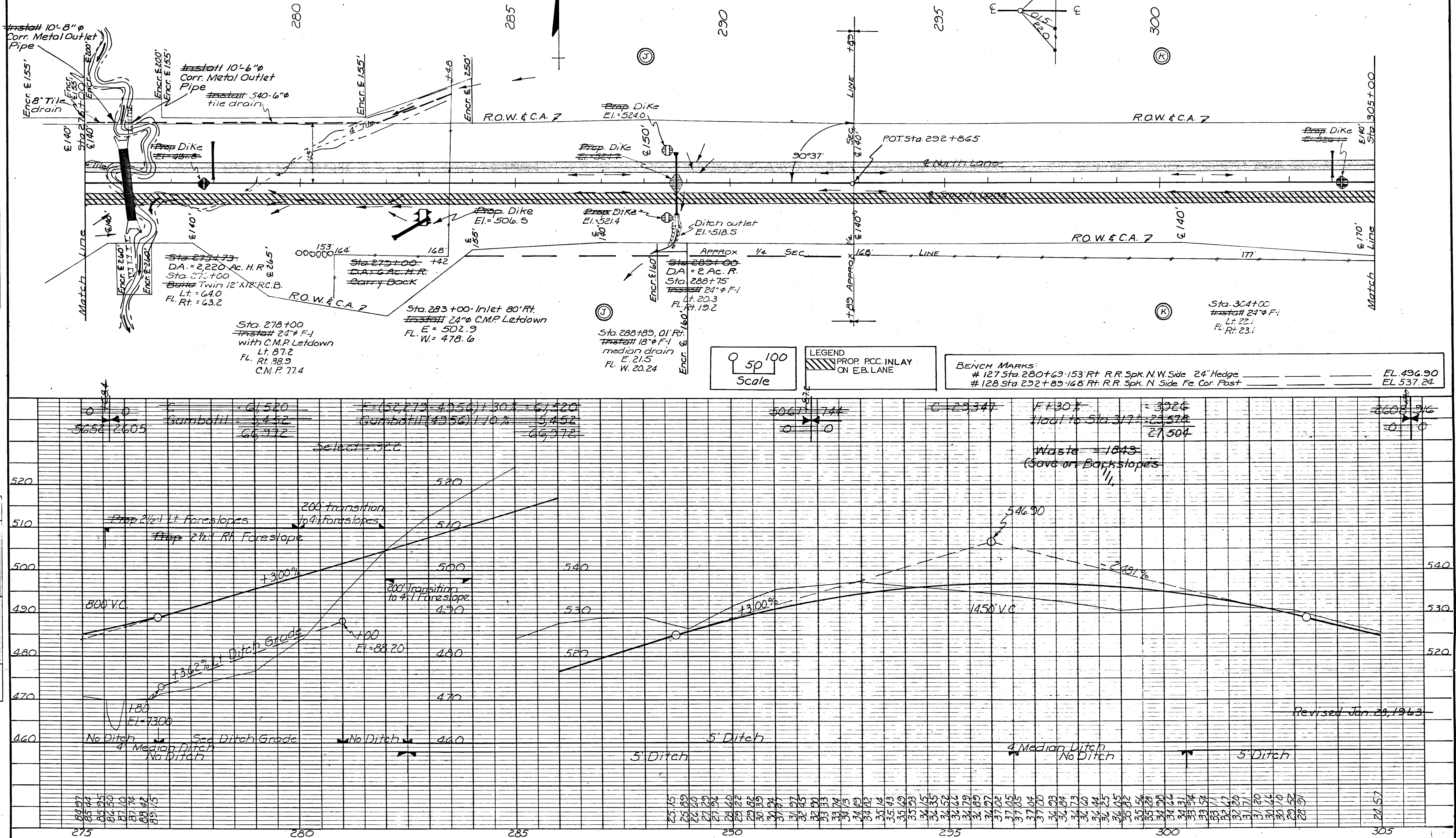
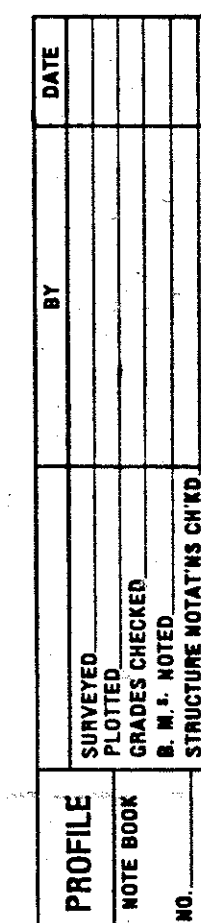
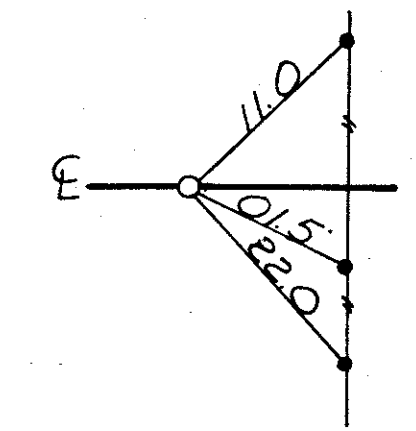


BENCH MARKS:

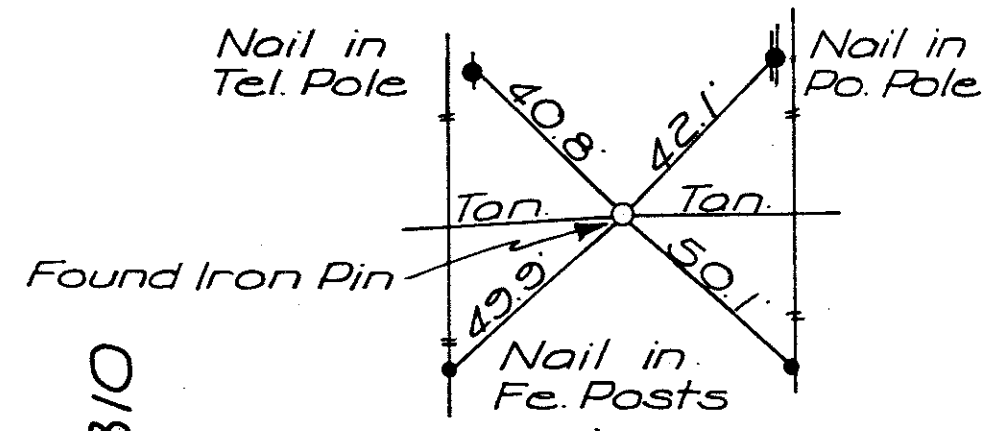
# 122 Sta. 246+48-108 Rt. R.R. Spk. in N. Side Fe. Post	EL. 518.23
# 123 Sta. 252+00-114 Rt. R.R. Spk. in N. Side Fe. Cor. Post	EL. 517.87
# 124 Sta. 258+90-231 Rt. R.R. Spk. in W. Side 15" Wild Cherry	EL. 515.61
# 125 Sta. 266+64-204 Rt. R.R. Spk. in W. Side Po. Pole	EL. 494.78
# 126 Sta. 274+70-280 Rt. R.R. Spk. in N. Side Fe. Post	EL. 474.04



Ref. To P.O.T. Sta. 292+86.5



Property Owners:
K-Louis F. & Josephine Sielek
L-Robert Morrison
M-William Morrison
N-W.A. Palmer



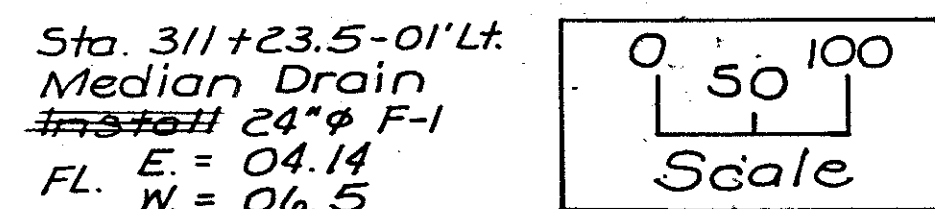
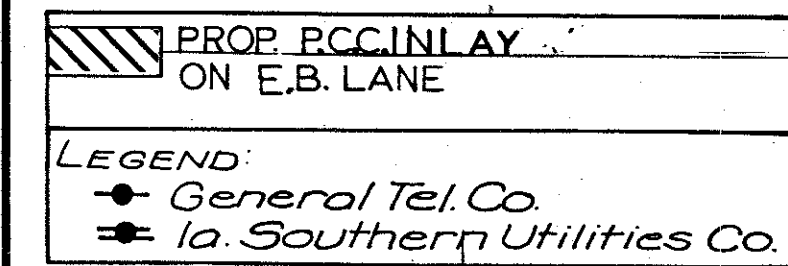
GRANT TWP.
T80N R16W
Sec. 36

MALCOM TWP.
T80N R15W
Sec. 31

Ref. To W. 1/4 Cor. Sec. 31
Sta. 319+34.55-206.9 Rt.

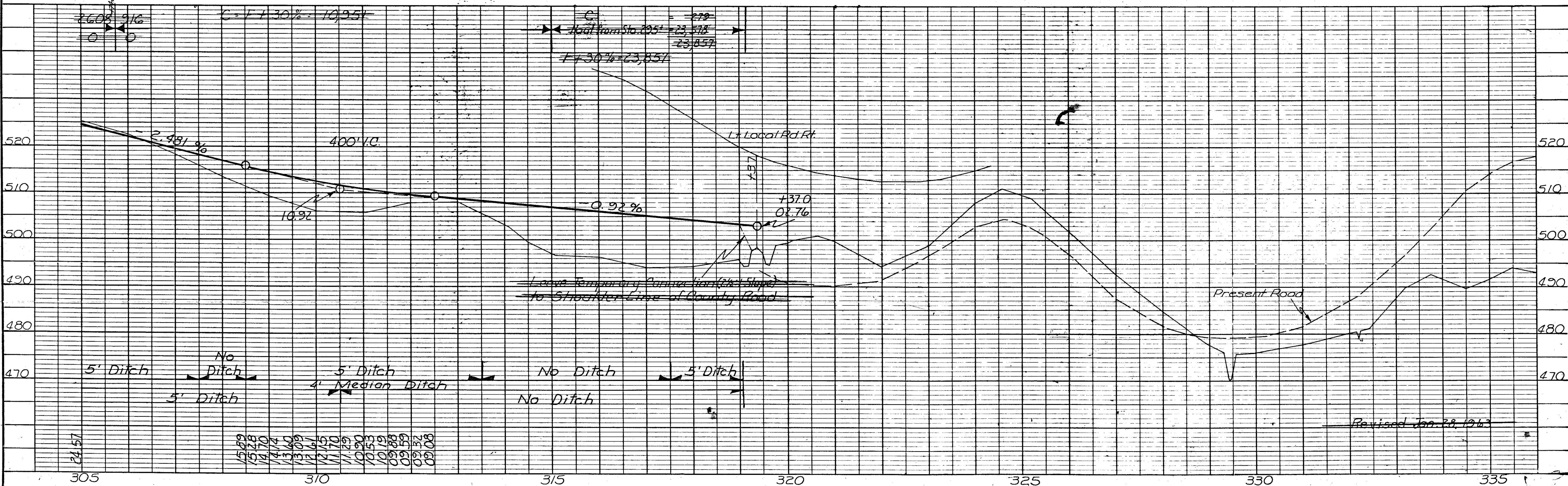
Ref. To P.O.T. Sta. 334+93.9

PLAN	DATE
BY	
DATE	
NO.	



BENCH MARKS:	
No. 129 Sta. 305+91-181 Rt. R.R. Spk. in N. Side Fe. Post	EL. 533.13
No. 130 Sta. 315+16-197 Rt. R.R. Spk. in N. Side Fe. Cor. Post	EL. 499.06
No. 131 Sta. 318+97-244 Rt. R.R. Spk. in N. Side Tel. Pole	EL. 491.21
No. 132 Sta. 325+07-176 Rt. R.R. Spk. in N. Side Po. Pole	EL. 509.47
No. 133 Sta. 330+10-180 Rt. R.R. Spk. in S. Side Po. Pole	EL. 479.09

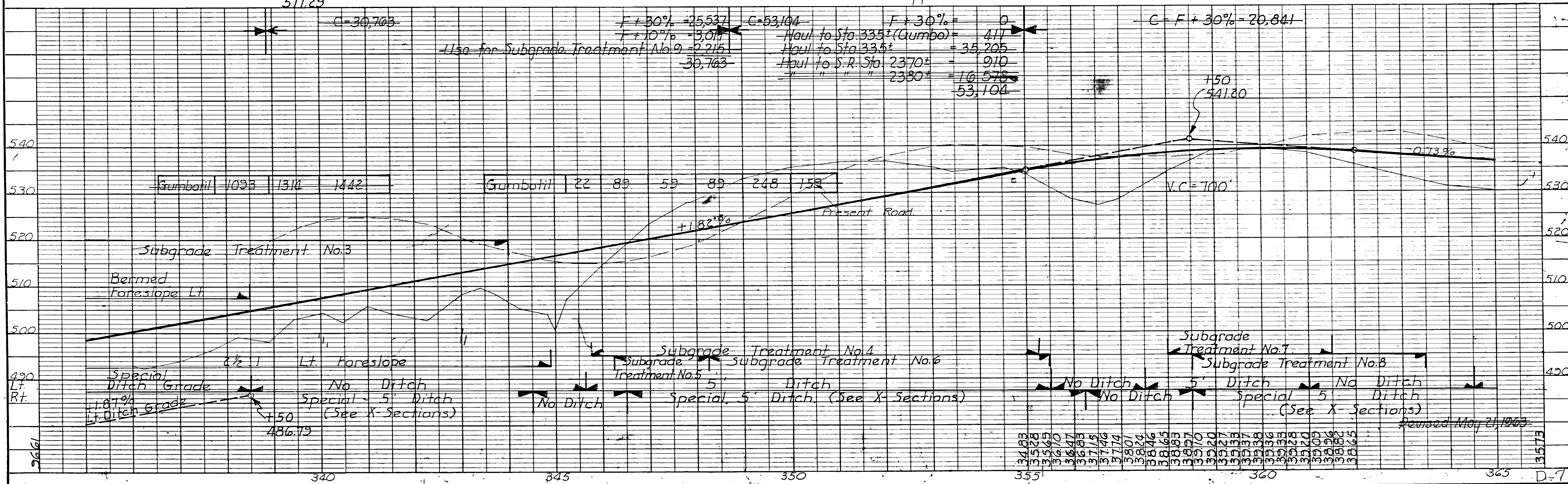
PROFILE	DATE
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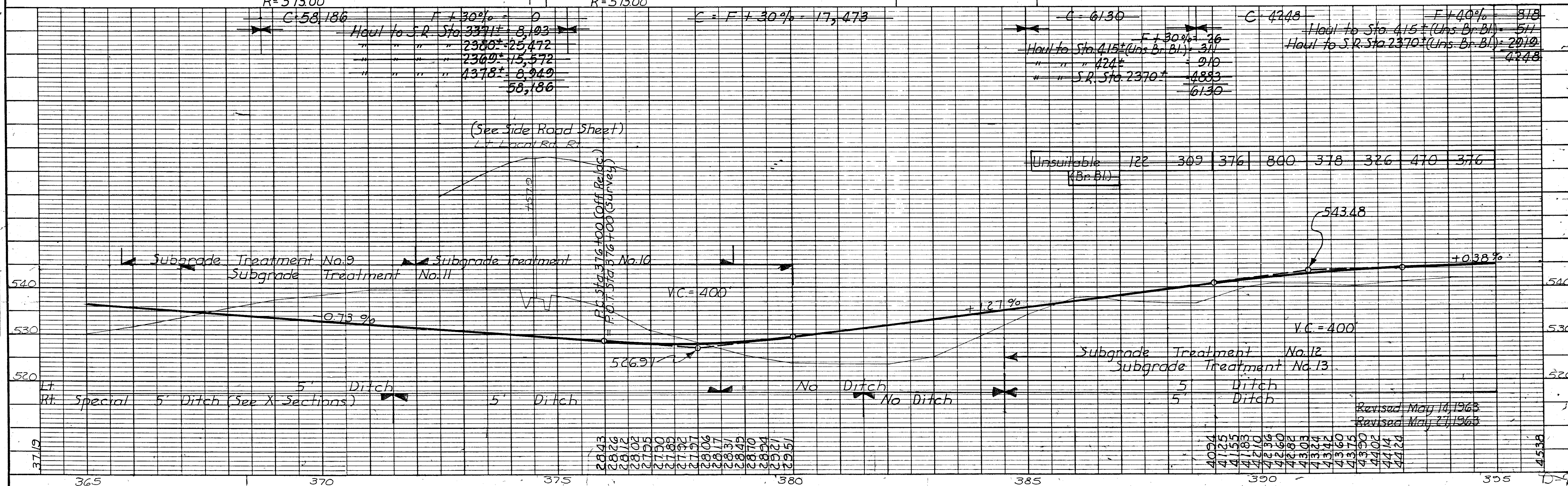
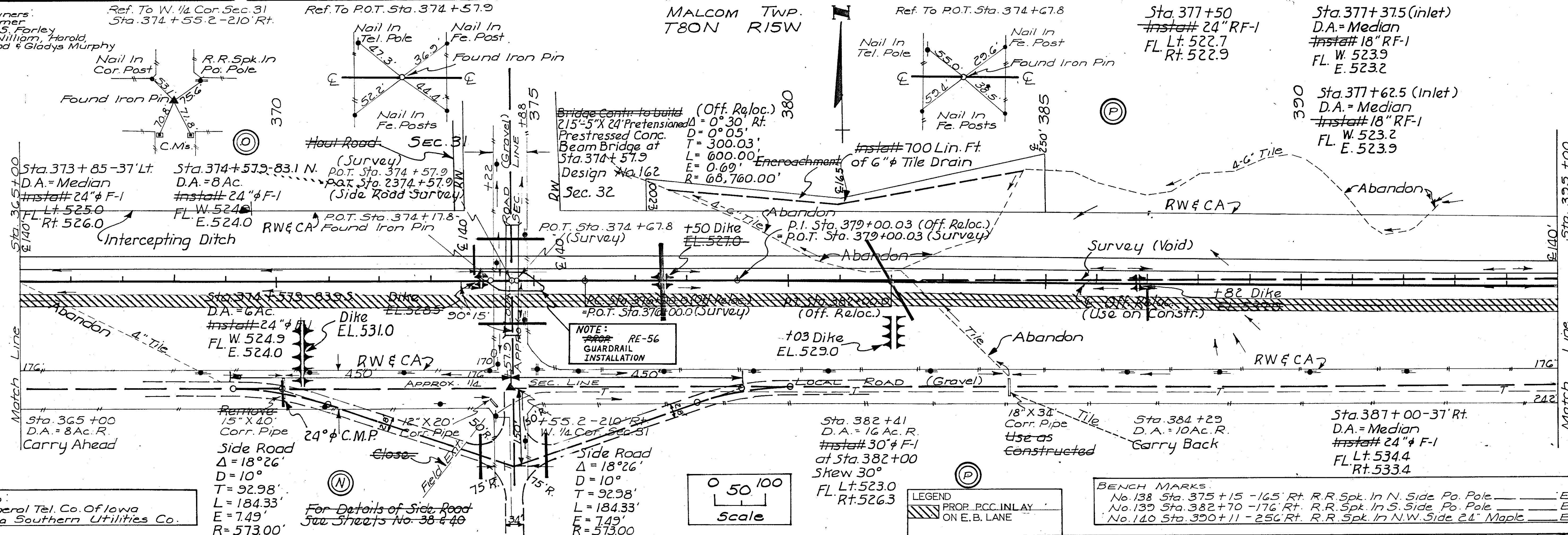
Engineering Plan View Details:

- Stationing:** Sta. 336+00 to Sta. 365+00.
- Proposed Road:** 18' Wide Road with 7' Centerline.
- Key Features:**
 - Borrow "A":** Located near Sta. 336+00.
 - Encroachments:** Various encroachments noted, including a "Hog Shed" and "Farm Ent.".
 - Drainage:** Includes tile drains (e.g., "Install 105 Lin. Ft. of 6" Bit Coated C.M.P. Drain") and culverts.
 - Structures:** Dike, Hog Shed, and various sheds.
 - Right-of-Way (RW) & Centerline (CA):** Clearly marked throughout the plan.
- Legend:**
 - PROP. P.C.C. INLAY ON E.B. LANE
- Bench Marks Table:**

Station	Description	Elevation
#134 Sta. 338+06.180' Rt.	R.R. Spk. In N. Side Po. Pole	EL. 516.46
#135 Sta. 345+36.180' Rt.	R.R. Spk. In N. Side Po. Pole	EL. 513.54
#136 Sta. 353+41.242' Rt.	R.R. Spk. In N. Side 36" Maple	EL. 510.27
#137 Sta. 362+75.177' Rt.	R.R. Spk. In S. Side Po. Pole	EL. 511.11



PLAN		BY	DATE
<div> <div>SURVETED</div> <div>PLOTTED</div> <div>ALIGNMENT CHECKED</div> <div>RT. OF WAY CHECKED</div> </div>			



TWP. 15W 2

Ref. To ROT. Sta. 413+47.0 (Survey)

Survey (Void)

Nail in Fe. Posts

10'

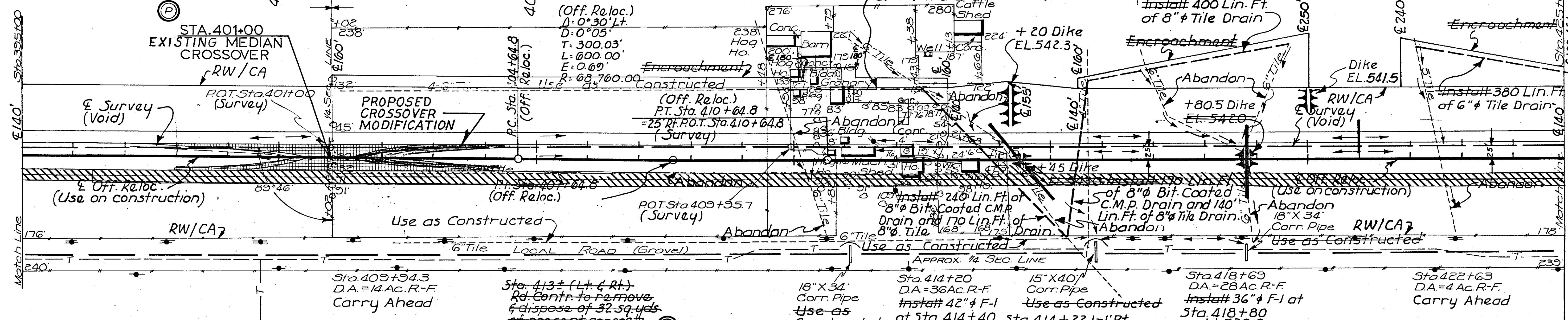
25'

£ Off. Reloc. (Use on construction)


Found Iron Pin

Chick.

Sta. 421+00-37' Rt.
D.A. = Median
~~Inst. # 24" & F-1~~
FL Lt. 537.5
Rt. 538.5



LEGEND:
 ● General Tel. Co-op of Ia.
 ● Ia. Southern Utilities Co.

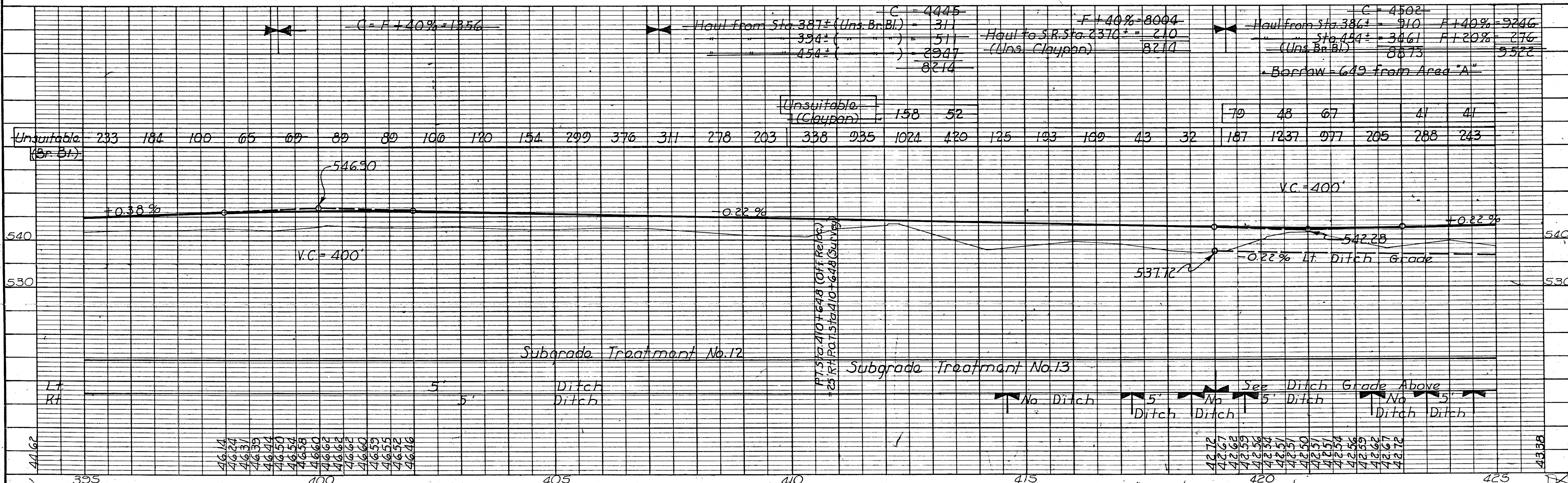
LEGEND
 PROP. P.C.C. INLAY
 OF E.B. LANE

18" X 34"
Corr. Pipe
~~Use as~~
~~Constructed~~

Sta. 414 + 20
D.A. = 36 Ac. R.
Inst. # 42" &
at Sta. 414 +
Skew 40°
Lt. 538.8
FL Rt. 536.0
T. 537.67

15" X 40"
Corr. Pipe
~~Use as Constructed~~
Sta. 414 + 22.1 - 1' Rt.
D.A. = Median
Inst. # 18' & F.I
Skew 42° 30'
FL Lt. 538.71
Rt. 538.9

BENCH MARKS:		
No. 141 Sta. 339+66-177' Rt. R.R. Spk. in S. Side Po. Pole	_____	EL. 543.48
No. 142 Sta. 410+81-156' Rt. R.R. Spk. in N.W. Side 18" Walnut	_____	EL. 541.39
No. 143 Sta. 418+63-174' Rt. R.R. Spk. in S. Side Po. Pole	_____	EL. 537.84



SEC. 32

[illegible]

435
Install 580 lin. ft.
of 8" Tile Drain
(Interceptor)
Encroachment

580 lin. ft.
ile Drain
(ceptor)
achments

84

Nail In Fe Post

Survey

Found Iron Pin

36.0

10.0

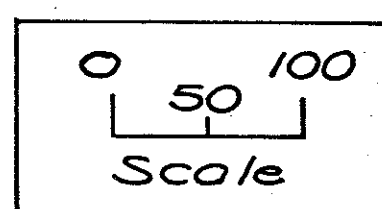
£ (Us)

Found Iron Pin
Fe. Posts
Nail In Fe. Post
Off. Reloc.
e on Constr.

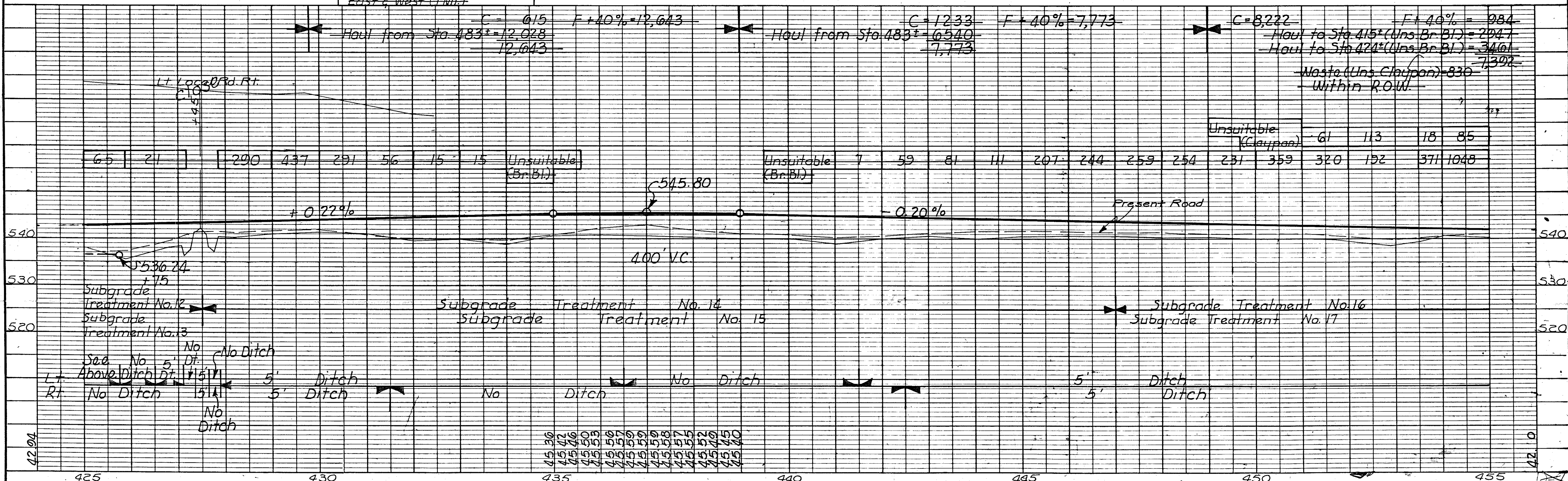
PROP. P.C.C. IN LAY
ON E.B. LANE

LEGEND:
◆ General Tel. Co. Of Iowa.
◆ Ia. Southern Utilities Co.

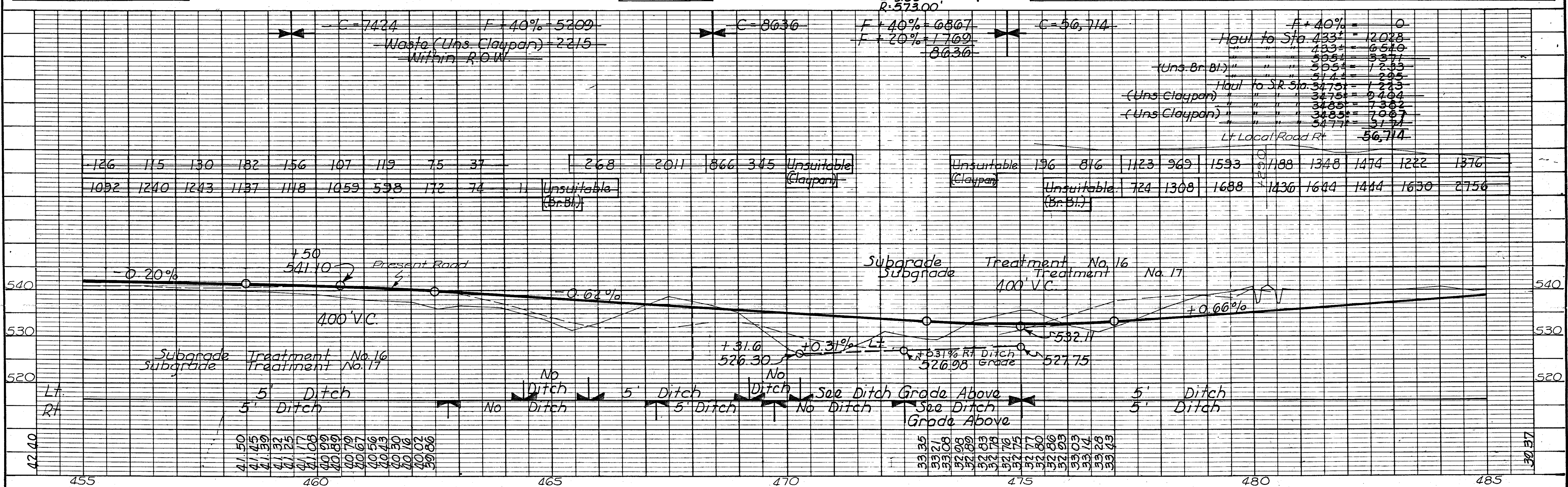
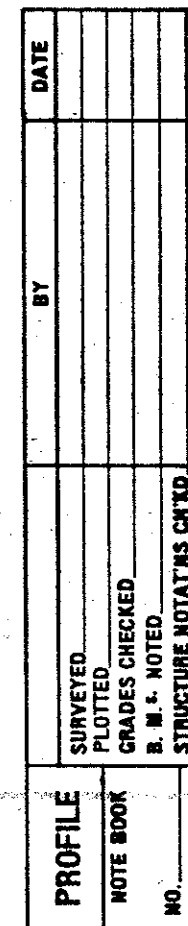
Note:
~~Local Road to be kept open~~
~~during Construction until~~
~~Grade Separations are built~~
~~East & West (1 Mi.)~~



BENCH MARKS:
No. 144 Sta. 427+84-140' Rt. R.R. Spk. In N.W. Side Po. Pole _____ EL. 541.10
No. 145 Sta. 436+57-235' Rt. R.R. Spk. In N. Side Of 21" Walnut _____ EL. 542.74
No. 146 Sta. 454+00-250' Rt. R.R. Spk. In N. Side Of 30" Maple _____ EL. 541.05

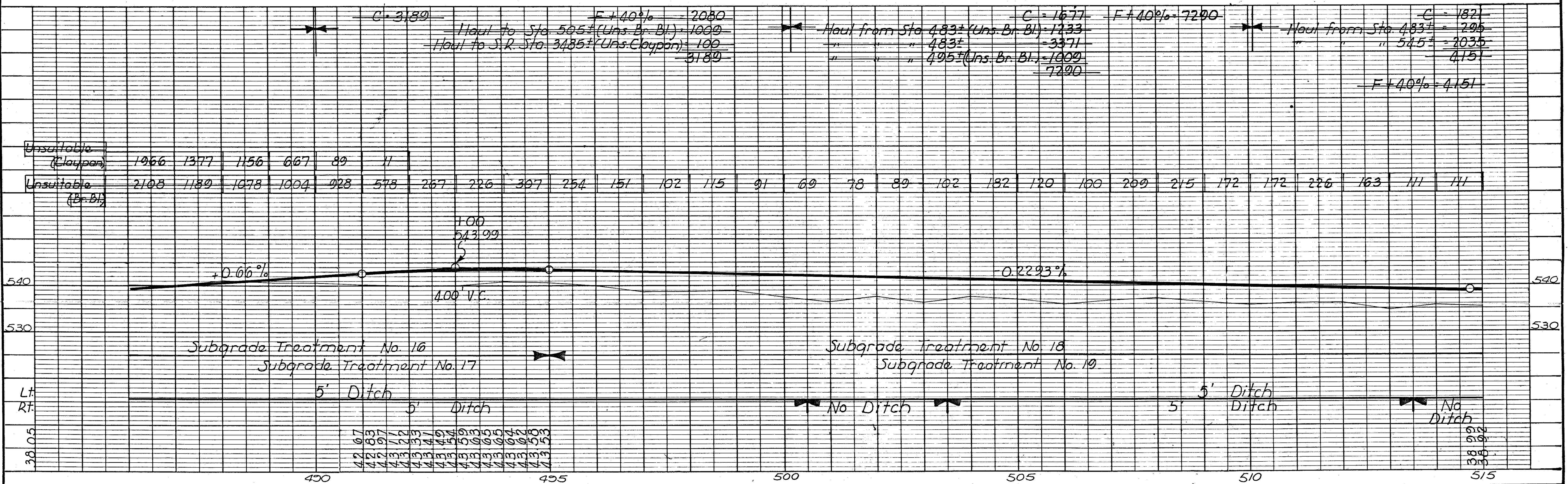
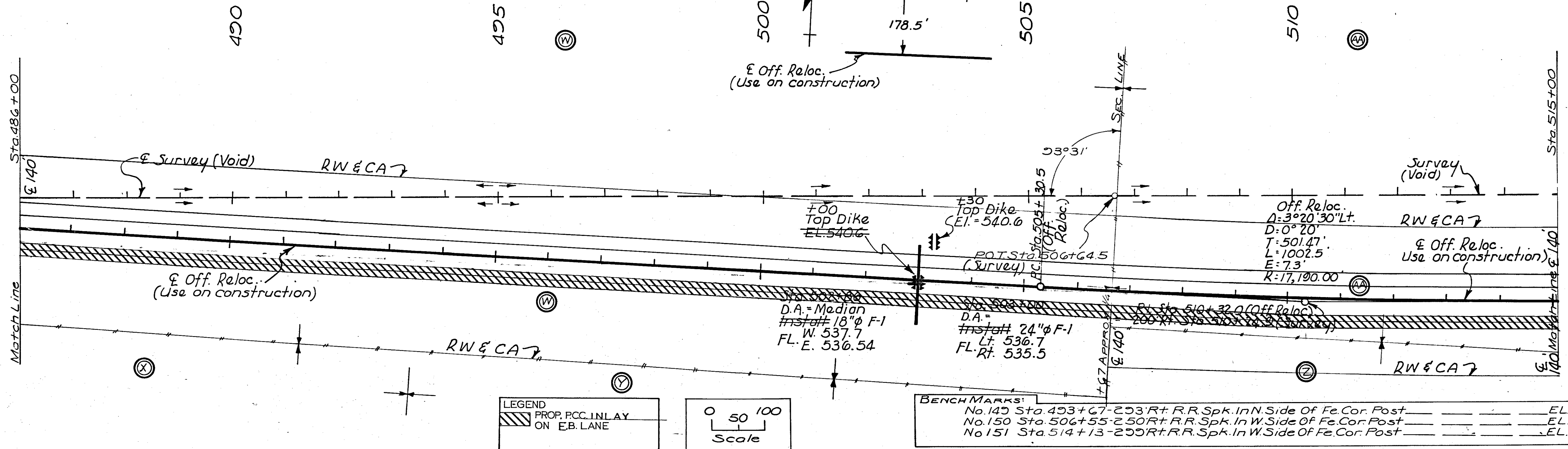
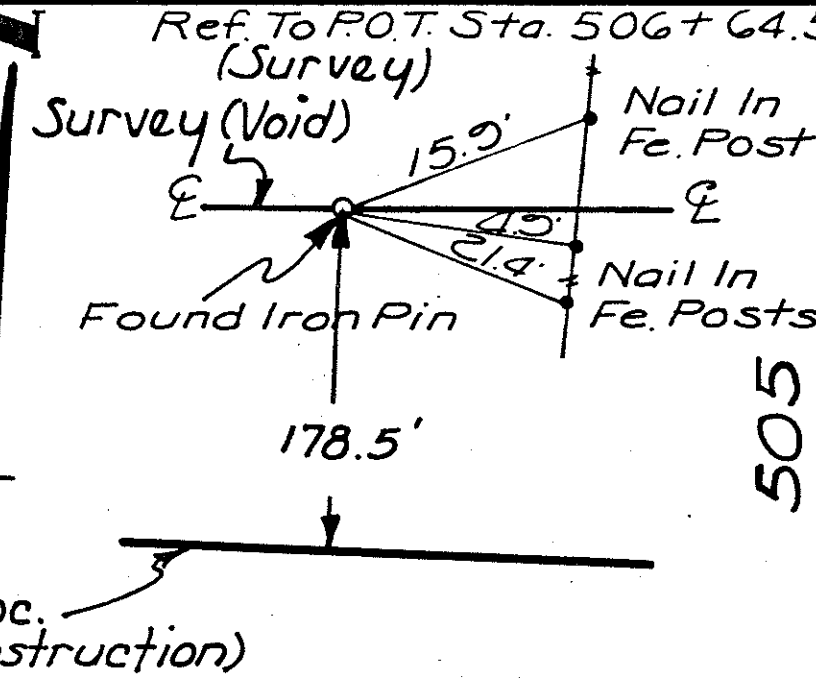


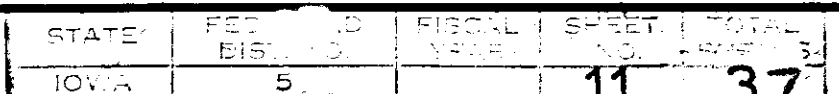
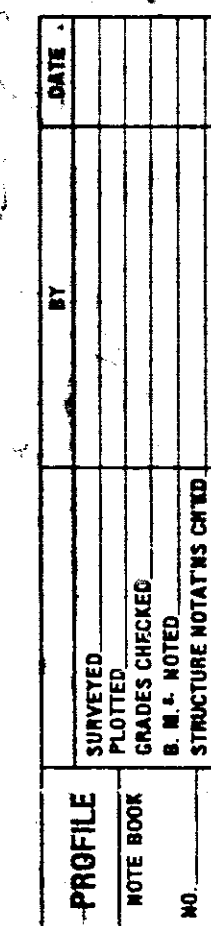
PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
NO.			

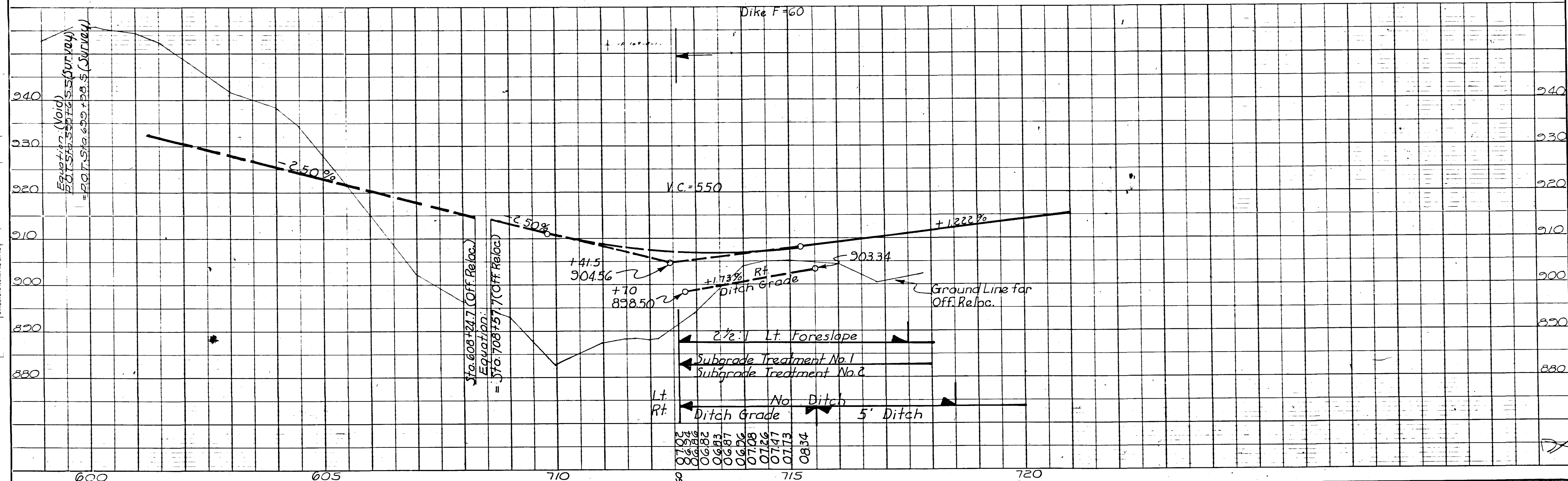


Property Owners:
W- Agnes Marian Herbert
X- Carolyn Royce, Kermit L.
Y- Betty F Long
Z- Carolyn Okey Royce
AA- Floy Bowers
AA- M. Ferguson

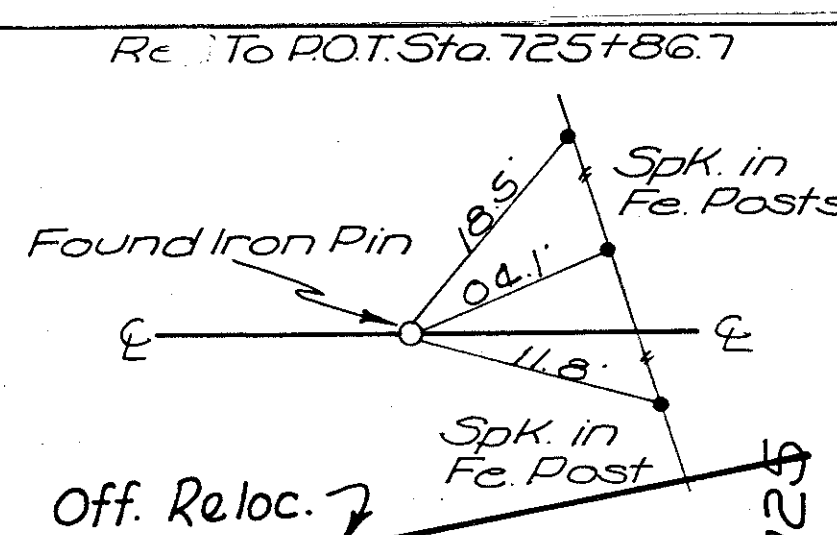
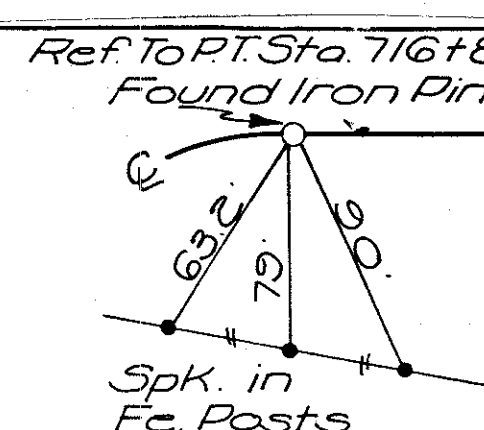
MALCOLM TWP
T80N R15W
SEC. 34





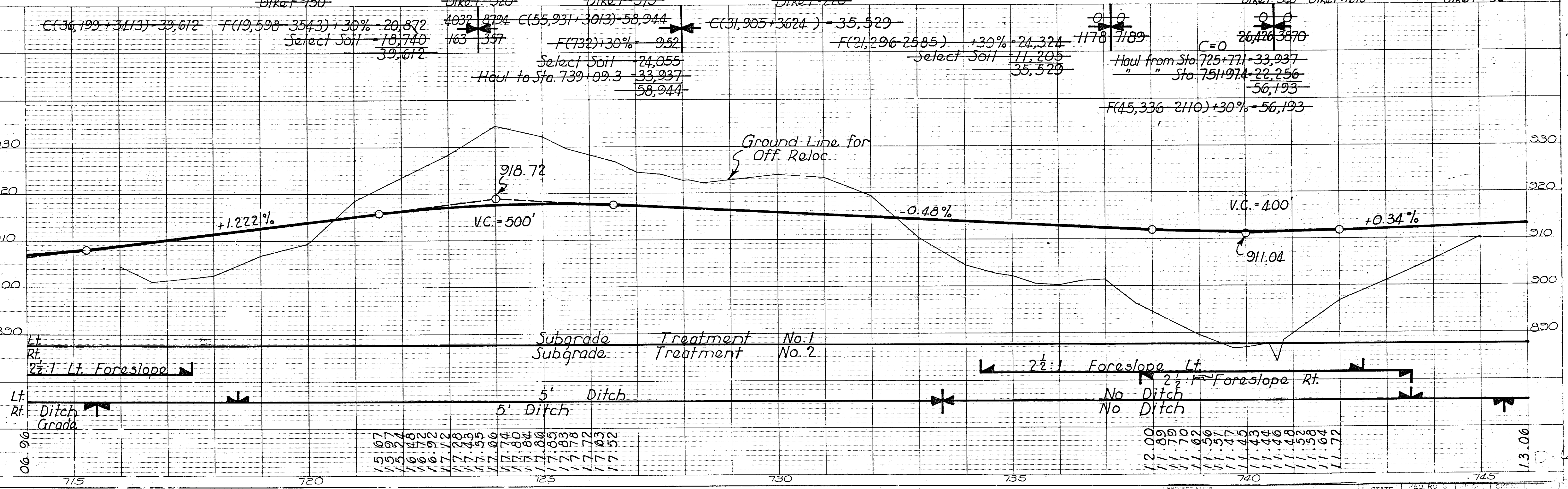
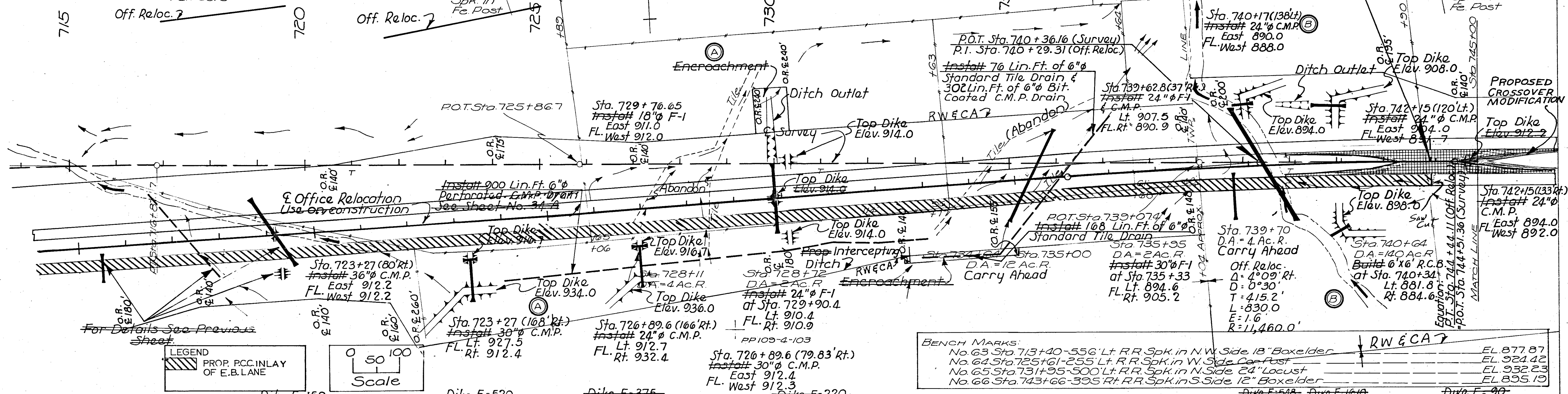
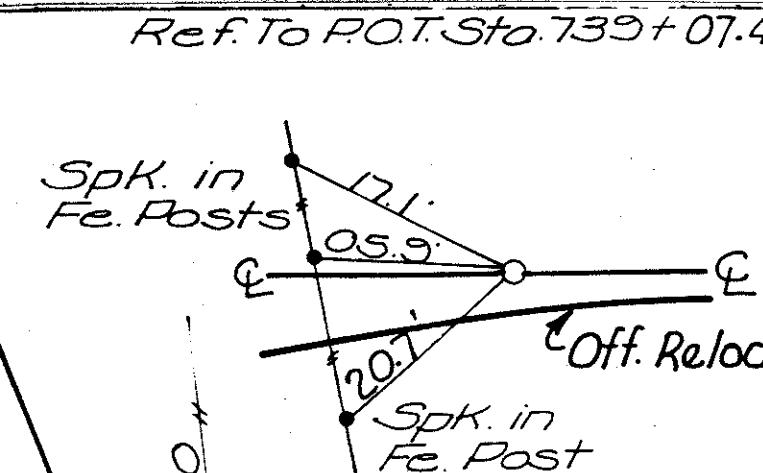
~~$80 - 6(26) = 196 - 4 = 260$~~ 

Property Owners
A-Russell Tuttle
B-William Schneekloth



MALCOM TWP
T80N R15W
SEC. 36

BEAR CREEK TWP.
T80N R14W
SEC. 31



SINGLE PLAN & PROFILE - DOTTED
A. ROGERS CO. J. POLIS - ST. PAUL - DULUTH

Poweshiek Co.

IR-80-5(09) 182--12-79

STATE FED. ROAD DIST. NO. 20 37