



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
Allamakee COUNTY
HMA Resurfacing with Milling
 0.2 mi W of E Jct Co Rd X32 to Co Rd X16

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



MILEAGE SUMMARY			
			105-1
			09-27-94
Div.	Location	Lin. Ft.	Miles
** Section A	Sta. 1803+87.0 to 1796+96.9	690.1	0.13
	Sta. Eq. = 1796+96.9 Bk. = 0+00.0 Ah.	0.0	0.00
** Section B	Sta. 0+00.0 to 380+00.0	38,000.0	7.20
	Sta. Eq. = 216+88.29 Bk. = 217+05.02 Ah.	- 16.73	0.00
	Sta. Eq. = 237+53.97 Bk. = 237+65.68 Ah.	- 11.71	0.00
	Sta. Eq. = 306+53.07 Bk. = 306+68.40 Ah.	- 15.33	0.00
	Sta. Eq. = 354+22.16 Bk. = 354+27.93 Ah.	- 5.77	0.00
Total		38,690.1	7.33

REVISIONS	TOTAL
	..
PROJECT IDENTIFICATION NUMBER	
22-03-076-020	
PROJECT NUMBER	
STP-076-2(065)--2C-03\HSIPX-076-2(66)--3L-03	
R.O.W. PROJECT NUMBER	

INDEX OF SHEETS	
A.1-A.2	Title Sheet and Location Map
B.1-4	Typical Cross Sections and Details
C.1-3	Estimate of Quantities and General Notes
C.4	Index of Tabulations
C.5-11	Tabulations
D.1-16	As-Built Information Sheets
J.1	Traffic Control Sheet
* U.1- U.3	500 Series and Detail Sheets
* Denotes Color Sheets	

** In Section A, stationing decreases southbound. In Section B the stationing reverses increasing southbound. Right and left will go with stationing.

DESIGN DATA RURAL			
2042	AADT	2400	V.P.D.
2022	AADT	2100	V.P.D.
20	-- DHV	--	V.P.H.
TRUCKS		17	%
Total			
Design ESALS		1,191,360	

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Mary K. Kelly	Primary Signature Block

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

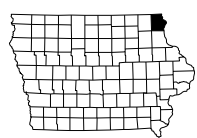
A.1, B.1-B.3 C.1-C.9, D.1-D.25, J.1, U.1-U.17

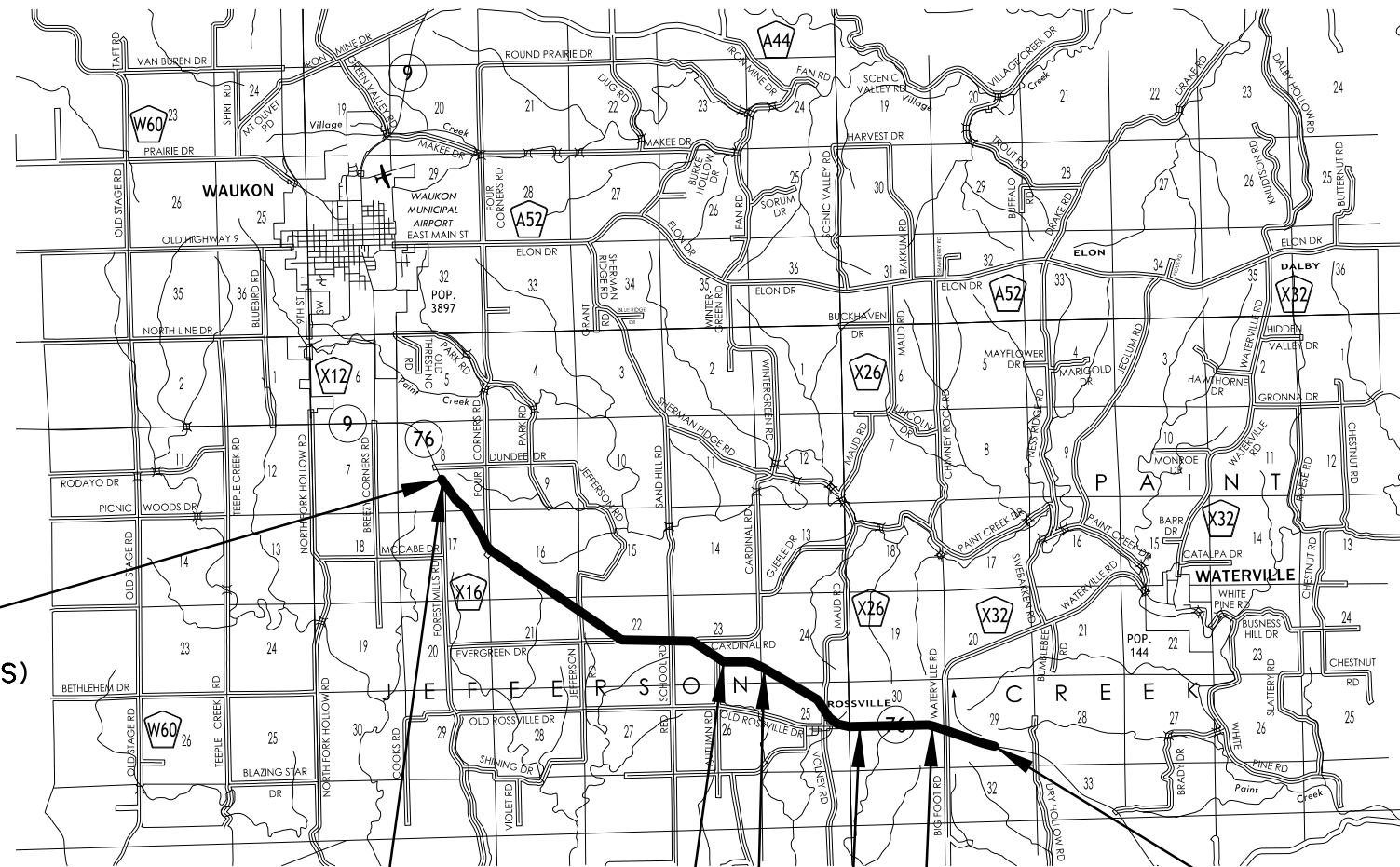
Signature _____ Date _____

Printed or Typed Name _____

My license renewal date is December 31, 20 22.

Pages or sheets covered by this seal: _____





STA. 1803+87.0
BEGIN PROJECT
BEGIN SECTION A (NB STATIONS)
 R.P. 27.11

STA. 380+00.0
END PROJECT
 R.P. 19.78

R-6W

R-5W

R-4W

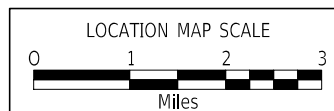
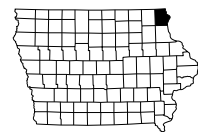
EQUATION:
 STA. 1796+96.6 Bk=
 STA. 0+00.0 Ah
END SECTION A (NB STATIONS)
BEGIN SECTION B (SB STATIONS)

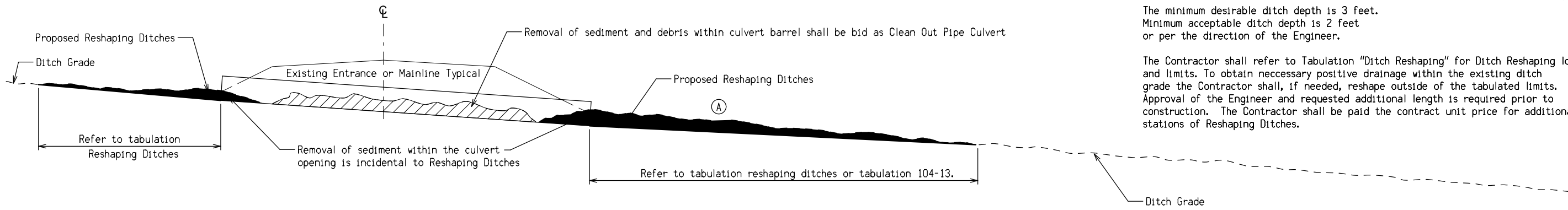
EQUATION:
 STA. 216+88.29 Bk=
 STA. 217+05.02 Ah

EQUATION:
 STA. 354+22.16 Bk=
 STA. 354+27.93 Ah

EQUATION:
 STA. 306+53.17 Bk=
 STA. 306+68.40 Ah

EQUATION:
 STA. 237+53.97 Bk=
 STA. 237+65.68 Ah





(A) Contractor to reshape ditch from culvert outlet as follows:

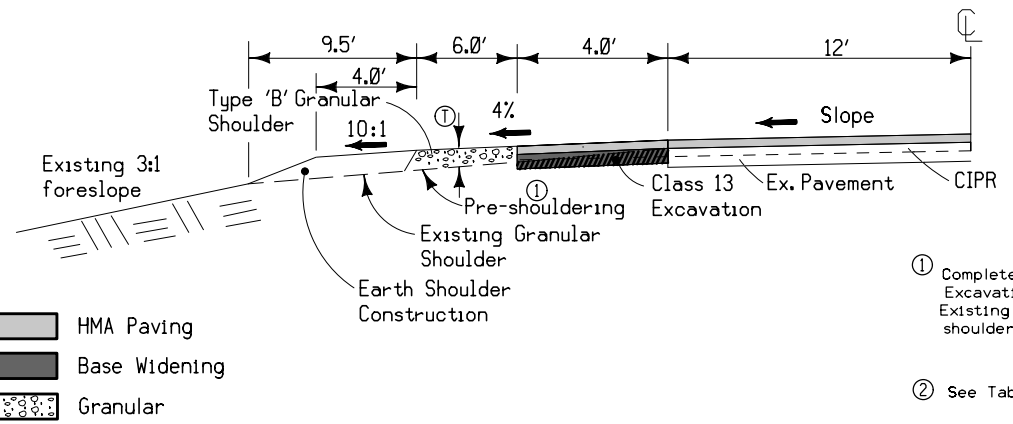
Minimum acceptable ditch grades range from 0.2% to 1.0%.
Desirable ditch grades range from 1.0% to 3.0%.

The minimum desirable ditch depth is 3 feet.
Minimum acceptable ditch depth is 2 feet
or per the direction of the Engineer.

The Contractor shall refer to Tabulation "Ditch Reshaping" for Ditch Reshaping locations and limits. To obtain necessary positive drainage within the existing ditch grade the Contractor shall, if needed, reshape outside of the tabulated limits. Approval of the Engineer and requested additional length is required prior to construction. The Contractor shall be paid the contract unit price for additional stations of Reshaping Ditches.

RESHAPING DITCHES TYPICAL

7135
Modified



- HMA Paving
- Base Widening
- Granular

① Complete granular pre-shouldering prior to Class 13 Excavation to provide for a trench for base widening. Existing granular shoulder material from the outer shoulder area may be used as designated by the Engineer.

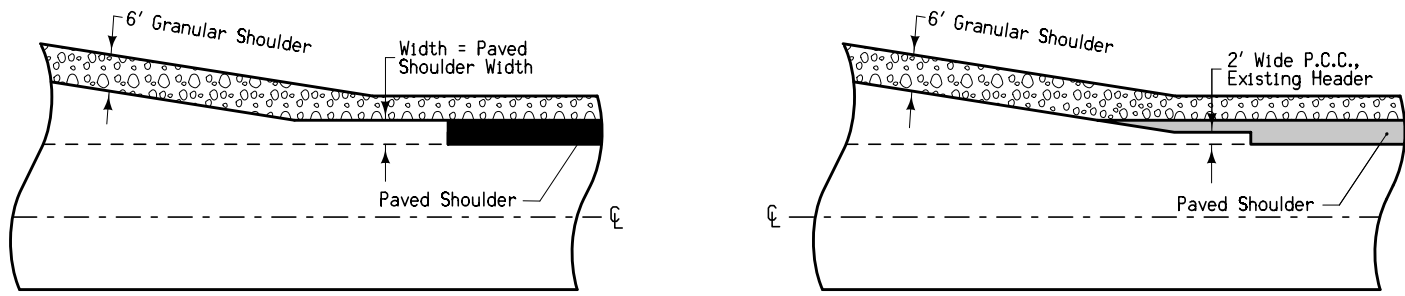
② See Tabulation 112-9

6" thickness was assumed to account for low shoulders.

**TYPICAL SECTION
FOR TYPE 'B'
GRANULAR SHOULDER
ADJACENT TO HOT MIX ASPHALT
RESURFACING**

LOCATION			SIDE	① Inches
ROAD	STATION TO STATION ②			
IA 76	1803+87.0	376+50.0	BOTH	6

7154A
10-20-09

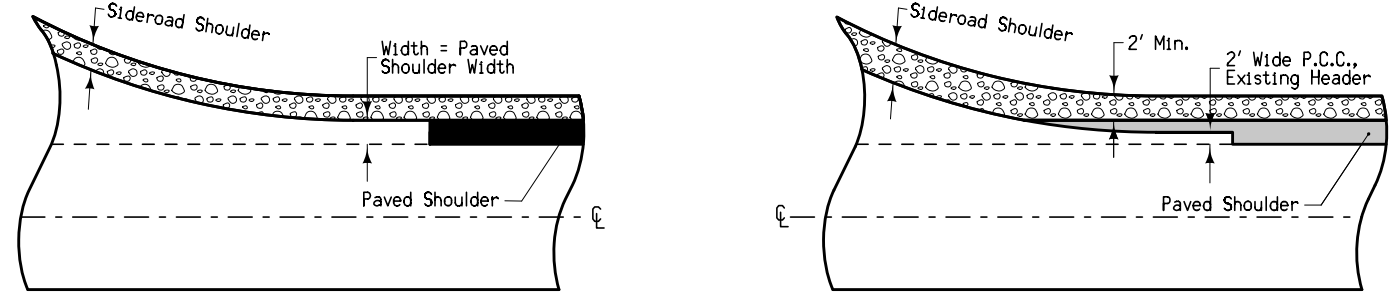


With Newly Constructed Turn Lanes

At UAC Turn Lanes

**PAVED SHOULDER
DETAIL AT
TURN LANES**

7154B
10-20-09

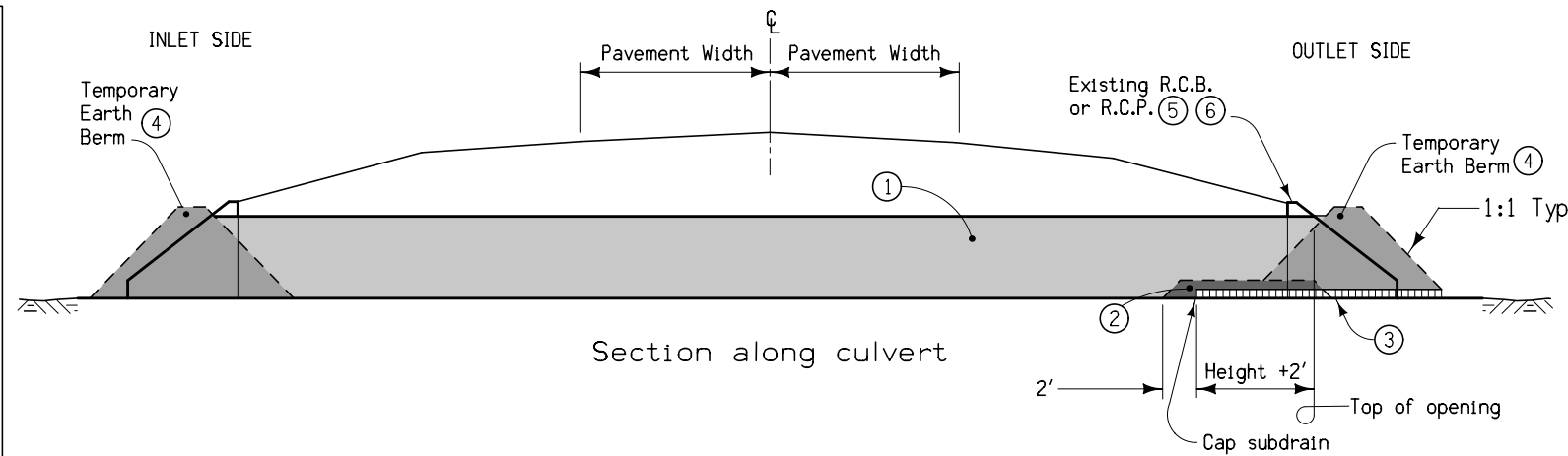
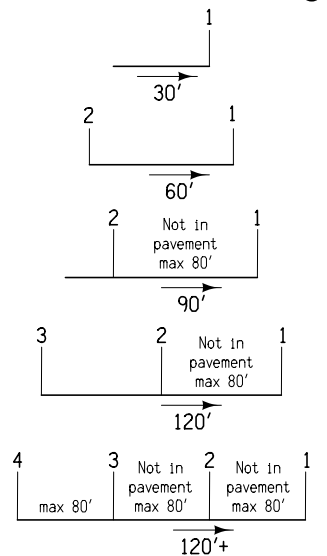


With Newly Constructed Returns

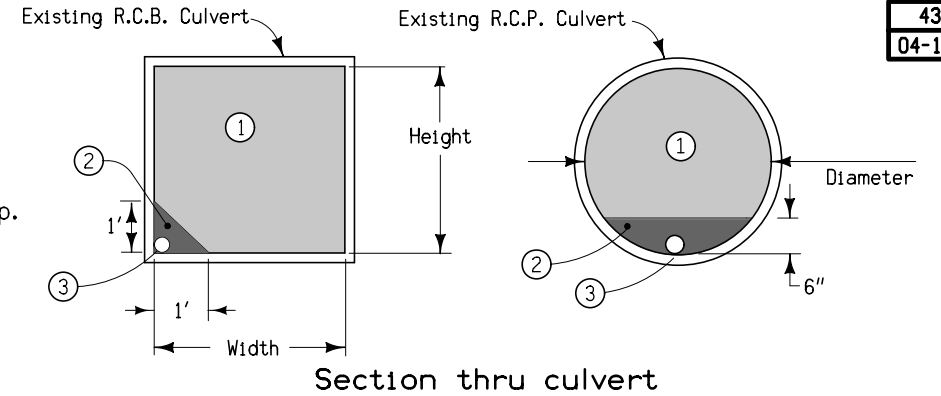
At UAC Returns

**PAVED SHOULDER
DETAIL AT RETURNS**

Required Injection Points ⑥



Section along culvert



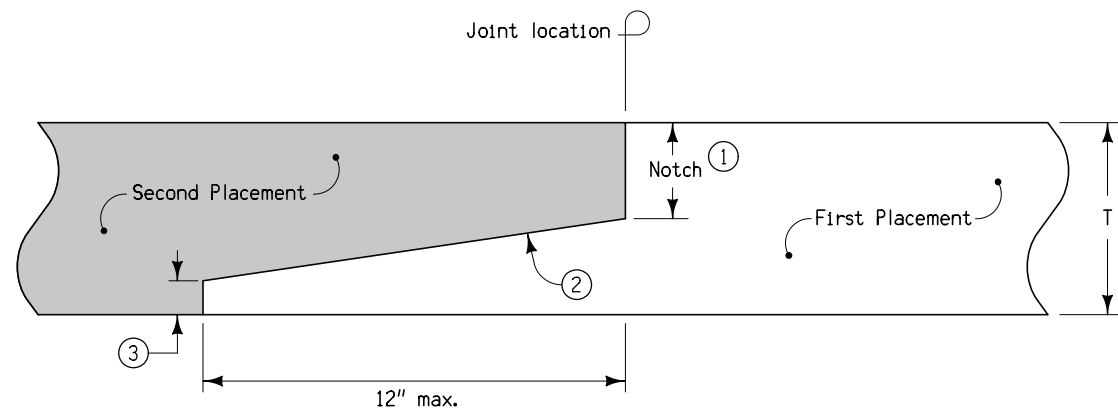
Section thru culvert

4315
04-15-08

**DETAILS OF CULVERT ABANDONMENT WITH FLOWABLE MORTAR
(Rectangular structures less than 8' in either height or width.
Circular structures less than 10' Dia.)**

- ① Flowable Mortar.
- ② Granular Backfill.
- ③ 4" subdrain at flowline elevation of culvert shall be extended into the culvert a distance of 2' plus the height of the culvert. Granular Backfill covers subdrain and extends an additional 2'. Subdrain and granular backfill are incidental to flowable mortar.
- ④ Ends of culvert shall be plugged sufficiently to retain flowable mortar. Temporary earth berms are incidental to flowable mortar.
- ⑤ Removal of headwalls may be required.
- ⑥ Outlet shall be filled first. See injection point detail for additional information.

7315
10-20-09

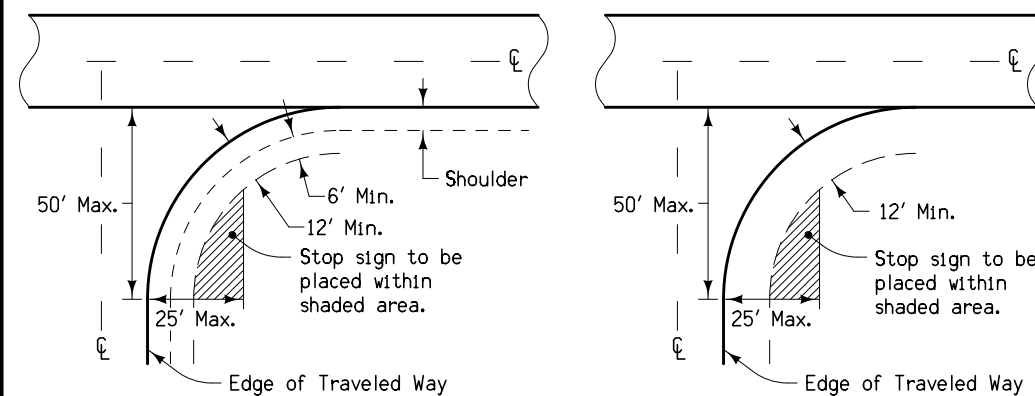


Notes:

- ① Notch: Min = nominal maximum aggregate size + 1/4". Max = T/2.
- ② 12:1 Slope
- ③ Optional step at toe of slope: Max = 1".

**LONGITUDINAL HMA
NOTCHED WEDGE JOINT
T = 2" OR GREATER**

9503
07-15-97



**CASE 'A'
WITH SHOULDER**

**CASE 'B'
WITHOUT SHOULDER**

NOTES:

- Stop signs should be confined to the shaded areas, but as close to the approach roadway as possible to provide the motorist with the best visual impact.
- If possible, stop signs should be placed at the point where vehicles are to stop or as near as practical.
- In rural areas, the lateral clearance should not be closer than 6' from the edge of a usable shoulder, or if none, 12' from edge of the traveled way.
- In urban areas, stop signs should be placed a minimum of 6' from the near edge of the intersected street or a minimum of 4' in advance of the near edge of a marked crosswalk. Lateral clearance may be reduced to a minimum of 2' from the face of a curb.
- Where the approach roadway consists of two lanes of traffic, a second stop sign should be placed where it is visible to traffic in the inner lane.
- At channelized intersections, the additional stop sign may be placed on a channelized island or median.

STOP SIGN PLACEMENT

100-1D
10-18-05

PROJECT DESCRIPTION

This project involves 4" Cold in Place Recycling with a 4" HMA overlay from 0.2 miles west of the east junction of Co Rd X32 to near JCT of Co Rd X16. Class 13 excavation, pavement markings, granular shoulder, and 4-foot paved shoulders will be constructed. Culvert plugging and culvert repairs will be included with this project.

111-25
10-18-11

INDEX OF TABULATIONS

Tabulation	Tabulation Title	Sheet No.

100-1U
Revised

UTILITIES

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Steven.Parker4@lumen.com

262-6
10-18-05

UTILITIES
(NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

281-1
10-18-16

SECTION 404 PERMIT AND CONDITIONS

Construct this project according to the requirements of U.S. Army Corps of Engineers Nationwide , Permit No. 3 . A
copy of this permit is available from the Iowa DOT website (<http://www.envpermits.iowadot.gov/>). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

EXISTING PAVEMENT

No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Reinforcement	Remarks	
	County	Route	Dir. of Travel	Begin Ref. Loc. Sign	End Ref. Loc. Sign				Type	Depth	Type	Depth	Type	Depth	Type	Depth	Source	Type	Durability Class			Type
3	76	NB/SB	19.78	24.82	1964		FN-347	BAC	3	ATB	7	SAS	6	P&M STONE ROSSVILLE	C.LST							
								AAC	2	BAC	2		1		C.LST							
								BSC														
3	76	NB SB	24.82	26.85	1964		FN-347	BAC	3	ATB	7	SAS	6	P&M STONE BERNHARD QRY.	C.LST							
								AAC	2	BAC	2				C.LST							
								BSC														

NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202.

① Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

Location Station	Type of Notch or Runout	(S)	(I)	(DI)	(L)	(M)	Pavement Scarification SY	Remarks
		IN	IN	IN	FT	IN		
		1803+87.00	Type 'N3'	2.0	2.0			
1788+00.00	Type 'N1'	2.0			25.0	2.0	119.4	Forest Mills Rd. See U.1
283+10.00	Type 'N3'	2.0	2.0		40.0	2.0	315.0	Volney Rd. Rt.
289+60.00	Type 'N3'	2.0	2.0		40.0	2.0	230.0	Big Foot Dr. Rt.
295+50.00	Type 'N3'	2.0	2.0		40.0	2.0	139.0	Old Rossville Dr. Rt.
359+60.00	Type 'N3'	2.0	2.0		40.0	2.0	427.0	Waterville Rd. Lt. UAC island
380+00.00	Type 'N3'	2.0	2.0		200.0	2.0	355.6	EOP
							1941.6	totals

EXISTING SIGNS TO BE REINSTALLED

SIGN DESCRIPTION	DIRECTION OF TRAVEL	LOCATION STATION	NUMBER OF POSTS	SQUARE TUBE STEEL POSTS	WOOD POSTS		INSTALLATION		SEE SIGNING NOTES
					4" x 4"	4" x 6"	TYPE	DIM 'X'	
					LF	LF			
Island - stop sign	NB		2.0	2.0			3.0	5'-0"	
Island - stop sign	NB	284+10							
Island - stop sign									
totals			2.0	2.0					

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks
				SY	LF	
11+85.00	22+00.00	lt		338.3		ex. paved shoulder. Incidental to Class 13
22+70.00	33+43.00	rt		357.7		ex. paved shoulder. Incidental to Class 13
31+20.00	46+14.00	lt		664.0		ex. paved shoulder. Incidental to Class 13
46+14.00	47+90.00	lt		136.9		ex. paved shoulder. Incidental to Class 13
47+90.00	59+85.00	lt		531.1		ex. paved shoulder. Incidental to Class 13
59+85.00	65+12.00	lt		234.2		ex. paved shoulder. Incidental to Class 13
31+20.00	46+14.00	rt		664.0		ex. paved shoulder. Incidental to Class 13
46+14.00	47+90.00	rt		117.3		ex. paved shoulder. Incidental to Class 13
47+90.00	65+12.00	rt		765.3		ex. paved shoulder. Incidental to Class 13
185+96.00	194+95.00	rt		299.7		ex. paved shoulder. Incidental to Class 13
197+48.00	198+54.00	lt		35.3		ex. paved shoulder. Incidental to Class 13
222+05.00	237+72.00	rt		348.2		not adjusted for equation. Incidental to Class 13
265+47.00	276+92.00	rt		381.7		ex. paved shoulder. Incidental to Class 13
284+80.00	304+15.00	rt		645.0		ex. paved shoulder. Incidental to Class 13
295+50.00	303+91.00	lt		280.3		ex. paved shoulder. Incidental to Class 13
284+10.00		rt		16.0	45.0	remove stop island
				5815.1	45.0	totals

FORESLOPE FLATTENING AND DRAINAGE STRUCTURES BY ROAD CONTRACTOR (MAINLINE PIPES)

Refer to Standard Road Plans DR-121, DR-122, and DR-213.

* Not a bid item

Existing Information		New Information		Length of New Const. LF	Flow Line Elevations		Dimensions				Removal and Reinstallation of Culvert Aprons and Pipes				New Apron No.		Apron Guard* (DR-213) NO.	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121) TYPE	Embank.- In-Place CY	Class 20 CY	Remarks	
Location	Size and Type of Culvert	Size IN	Type of Culvert		Total (LF)		Extensions (LF)		Aprons		Culvert Sections				IN	OUT		NO.	TYPE					NO.
					LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	NO.*	FT										
59+92.0	24" x 98' RCP									1		3	18							Type 3		8.0	A	
120+10	18" x 120' RCP																						A,B,C	
120+10	24" x 120' RCP																						A,B,D	
125+72.9	42" RCP									1		2	12							Type 3		8.0	A	
131+60	30" x 96' RCP										1			1						Type 3		8.0	A	
146+50	24" x 98' RCP																						A,E,F	
170+93.5	42" RCP									1		2	12							Type 3		8.0	A,G	
182+33.2	42" RCP									1		3	18							Type 3		8.0	See 100-19	
254+28.3	2 x 2 RCB																						A,B, outlet	
281+60-283+04	24" x 182' RCP																						A,B,H,I	
283+19-284+69	24" 120' RCP																						A,B,H,J	
										4	1											40.0	totals	
A: See 100-19 B: Clean approx. 20' C: Sideroad pipe at Jefferson Ave. lt D: Sideroad pipe at Jefferson Ave. rt E: Sideroad pipe at Evergreen Dr. rt F: Ditch clean inlet side. See typ.MK-7 G: Ditch clean lt side. See typ MK-7 H: Locate and Expose outlet I: Sideroad pipe at Maud Rd.lt J: Sideroad pipe at Voleny Rd. rt																								

110-9 10-18-11 CULVERT ABANDONMENT Refer to Details 4315 and 4316 * Not a bid item					
Location Station	Description	Fill Material		4" Perforated Subdrain* LF	Remarks
		Flowable Mortar	Granular Backfill*		
		CY	TON		
8+43, 27' rt.	18" x 54' RCP	128.0	0.5	10.0	Island, Forest Mills Rd. See U.1

110-4 08-01-08 CURB REMOVAL				
Begin Station	End Station	Side	Length STA	Remarks
8+43	9+11.00	rt	2.2	Island. See U.1

110-15 04-16-13 REMOVAL OF INTAKES AND UTILITY ACCESSES			
No.	Location/Description	Type	Remarks
1	Inlet at 8+46 29' rt.	Intakes	remove top and sides to subgrade elev.
1	Surface inlet at 8+74 40' rt.	Intakes	plug. See 110-9.

ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

Location			Rock Erosion Control (REC)					Material Bid Quantities			Remarks			
Road Identification	Begin Station	End Station	Side Lt./Rt.	(L)	(W)	Type 1	Type 2	Type 3	Type 4	Type 5		Eng. Fabric	Class E Revetment	Erosion Stone
				FT	FT	Rock Ditch Check	Rock Ditch	Rock Flume	Rock Splash Basin	Rock Slope Protection		SY	TON	TON
IA 76	92+46.90		rt	8	30				x			40.0	25.0	
	292+75		rt	10	30				x				A,B B,C	
totals											40.0	25.0		

A = Extend to row
B = See 100-19
C = Verify row

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES

Possible Standards: EC-204

Location			Perimeter and Slope			Ditch Check		Remarks
Begin Station	End Station	Side	Length of Installation			Length of Installation		
			9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	LF	
1791+00		rt		120				Forest Mills Rd. see 110-9 & Road Design Detail 570-12
59+92.0		lt		120				See 104-13 & Road Design Detail 570-11
92+46.90		rt		120				See 100-23
120+10		both		80				See 104-13
131+60		rt		120				See Road Design Detail 570-12
146+00				20				See 104-13
170+93.5		lt		120				See Road Design Detail 570-12
182+33.2		lt		120				See 104-13
254+28.3		rt		120				See Road Design Detail 570-12
281+60	283+04	lt		120				See Road Design Detail 570-12
283+19	284+69	rt		120				See Road Design Detail 570-12
				1180				totals

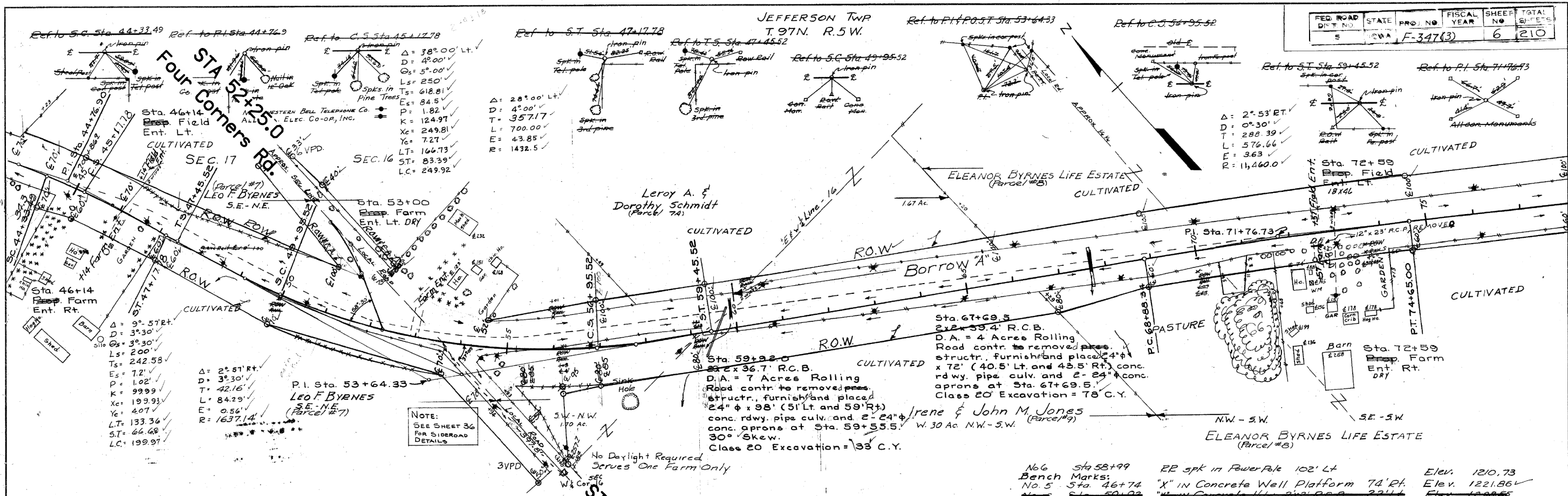
MILLED RUMBLE STRIPS

See PV-12 and PV-13

* Calculated at 18" width for Shoulder.

Road Identification	Station to Station		Location		L IN	Installation Length		Fog Seal* (Milled Rumble Strip) Shoulder GAL	Effective Shoulder Width			Remarks
			Shoulder Pavement Type	Rumble Strip Type (Centerline, Rt or Lt Shoulder)		PCC	HMA		PCC Paved	HMA Paved	Granular\ Earth	
						STA	STA		FT	FT	FT	
IA 76	1803+87.00	1796+96.60	HMA	Left Shoulder	12"		6.90	7.5				
	+00.00	216+88.29	HMA	Left Shoulder	12"		216.88	235.0				
	217+05.02	237+53.97	HMA	Left Shoulder	12"		20.49	22.2				
	237+65.68	306+53.17	HMA	Left Shoulder	12"		20.49	22.2				
	306+68.40	354+22.16	HMA	Left Shoulder	12"		68.87	74.7				
	354+27.93	380+00.00	HMA	Left Shoulder	12"		47.54	51.5				
	1803+87.00	1796+96.60	HMA	Centerline	12"		6.90	0.0				
	+00.00	216+88.29	HMA	Centerline	12"		216.88	0.0				
	217+05.02	237+53.97	HMA	Centerline	12"		20.49	0.0				
	237+65.68	306+53.17	HMA	Centerline	12"		68.87	0.0				
	306+68.40	354+22.16	HMA	Centerline	12"		47.54	0.0				
	354+27.93	380+00.00	HMA	Centerline	12"		25.72	0.0				
	1803+87.00	1796+96.60	HMA	Right Shoulder	12"		6.90	7.5				
	+00.00	216+88.29	HMA	Right Shoulder	12"		216.88	235.0				
	217+05.02	237+53.97	HMA	Right Shoulder	12"		20.49	22.2				
	237+65.68	306+53.17	HMA	Right Shoulder	12"		68.87	74.7				
	306+68.40	354+22.16	HMA	Right Shoulder	12"		47.54	51.5				
	354+27.93	380+00.00	HMA	Right Shoulder	12"		25.72	27.9				
Totals												
						PCC	HMA	Fog Seal				
							767.59	831.9				
						0.00						
						0.00	0.00	0.0				
							386.41					
						0.00						
						0.00	0.00					

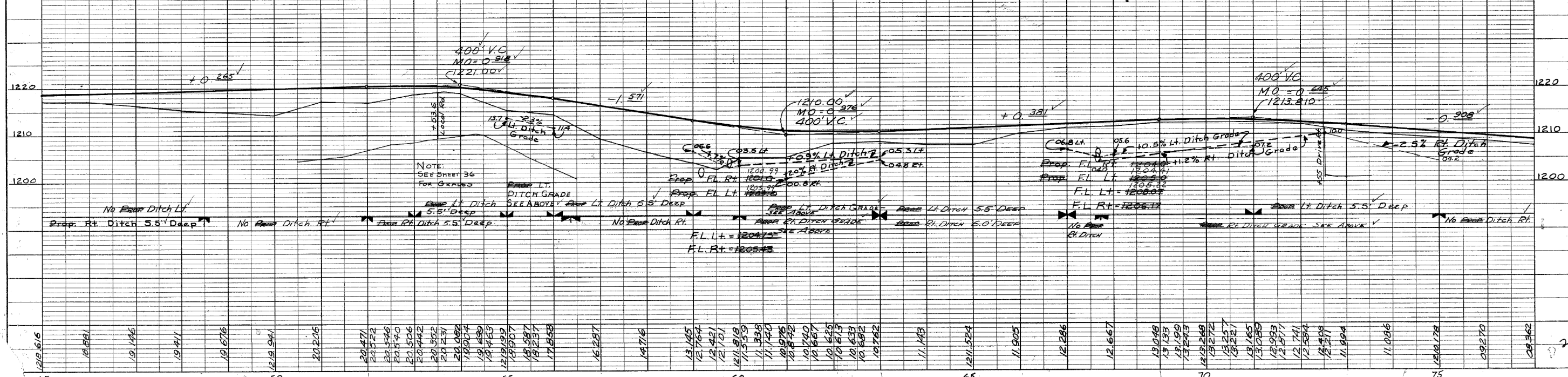
JEFFERSON TWP
T. 97N. R. 5W.



826	961	689	539	493	361	185	413	682	680	537	384	478	724	1215	1828	1980	1574	1098	648	299	409	387	506	559	443	339	267	224	132	
148	107	313	532	643	620	578	387	76	72	306	93	1933	1804	1017	376	94	80	130	174	274	443	298	241	157	113	146	222	254	285	367

$C = 7632 + 3224 - 589 + 2474 = 12,743$
 BORROW FROM $A = 3,063$
 $F = (5772 + 3681 + 1004 + 1250) \times 35\% = 15,806$

$C = 12,644 + 3389 - 972 = 15,061$
 BORROW FROM $A = 3,461$
 $F = (9610 + 3817 + 292) \times 35\% = 18,522$



AS-BUILT PLANS, FOR INFORMATION ONLY OF 210

PLAN
 NOTE BOOK ALIGNMENT CHECKED
 NO. 10110
 RT. OF WAY CHECKED
 NO. 10110
 PROFILE
 SURVEYED
 NOTE BOOK GRADES CHECKED
 NO. B. 34. 10110
 STRUCTURE, NOTING, CHG.
 NO. 10110

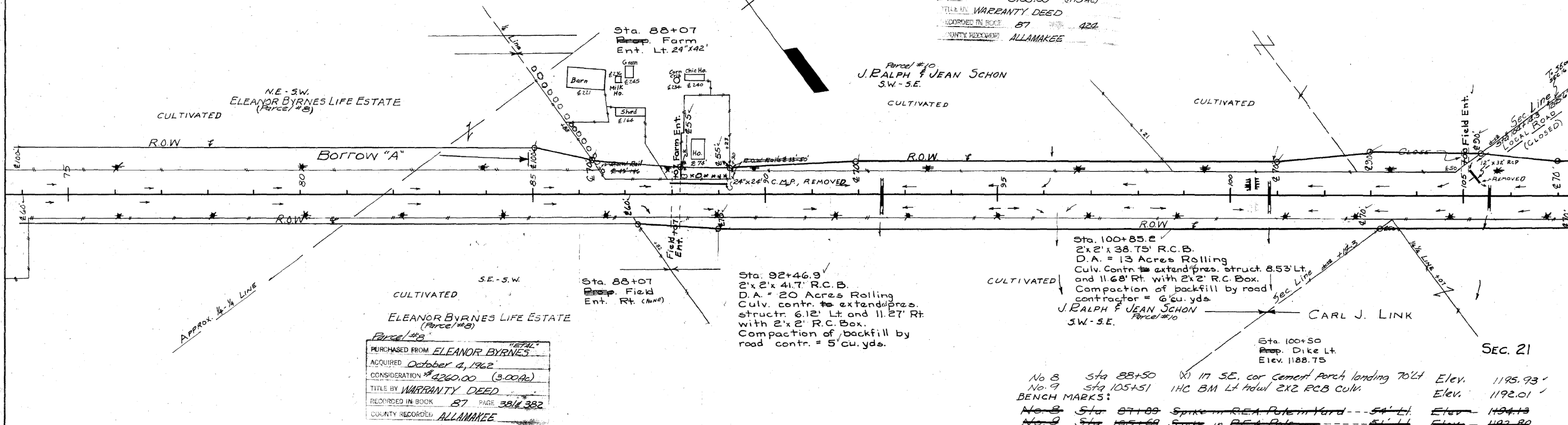
NORTHWESTERN BELL TELEPHONE CO. ALL-CL. ELEC. CO-OP, INC.

JEFFERSON TWP
T 97 N. R. 5 W.
Sec. 16

FED. ROAD DIST. NO.	STATE	PRO. NO.	FIN. AL. SHEET NO.	TOTAL SHEETS
	OWA	F-347(3)	7	210

Parcel #10
PURCHASED BY J. RALPH & JEAN SCHON
ACQUIRED August 20, 1962
CONSIDERATION \$3,183.00 (1.73 Ac.)
TITLE BY WARRANTY DEED
RECORDED IN BOOK 87 PAGE 424
COUNTY RECORDS ALLAMAKEE

Parcel #10
J. RALPH & JEAN SCHON
S.W.-S.E.

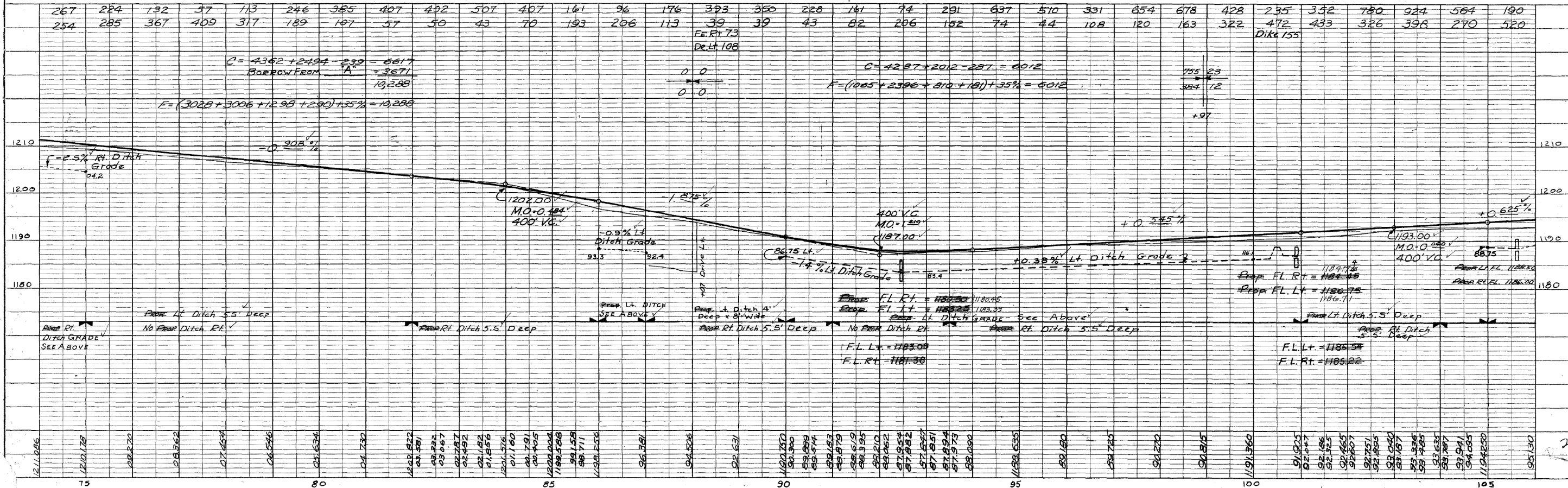


Parcel #8
PURCHASED FROM ELEANOR BYRNES
ACQUIRED October 4, 1962
CONSIDERATION \$4260.00 (3.00 Ac.)
TITLE BY WARRANTY DEED
RECORDED IN BOOK 87 PAGE 384, 382
COUNTY RECORDS ALLAMAKEE

Sta. 92+46.9
2'x2'x41.7' R.C.B.
D.A. = 20 Acres Rolling
Culv. contr. to extend pres. struct. 6.12' Lt. and 11.27' Rt. with 2'x2' R.C. Box.
Compaction of backfill by road contr. = 5' cu. yds.

Sta. 100+85.2
2'x2'x38.75' R.C.B.
D.A. = 13 Acres Rolling
Culv. Contr. to extend pres. struct. 8.53' Lt. and 11.68' Rt. with 2'x2' R.C. Box.
Compaction of backfill by road contractor = 6' cu. yds.
J. RALPH & JEAN SCHON
Parcel #10

No. 8 Sta. 88+50 17' SE. cor cement porch landing 70' Lt Elev. 1195.93'
No. 9 Sta. 105+51 IHC BM Lt. adwd 2x2 RCB Culv. Elev. 1192.01
BENCH MARKS:
No. 8 Sta. 87+89 Spike in R.E.A. Pole in Yard --- 54' Lt. Elev. 1194.13
No. 9 Sta. 105+59 Spike in R.E.A. Pole --- 61' Lt. Elev. 1192.80



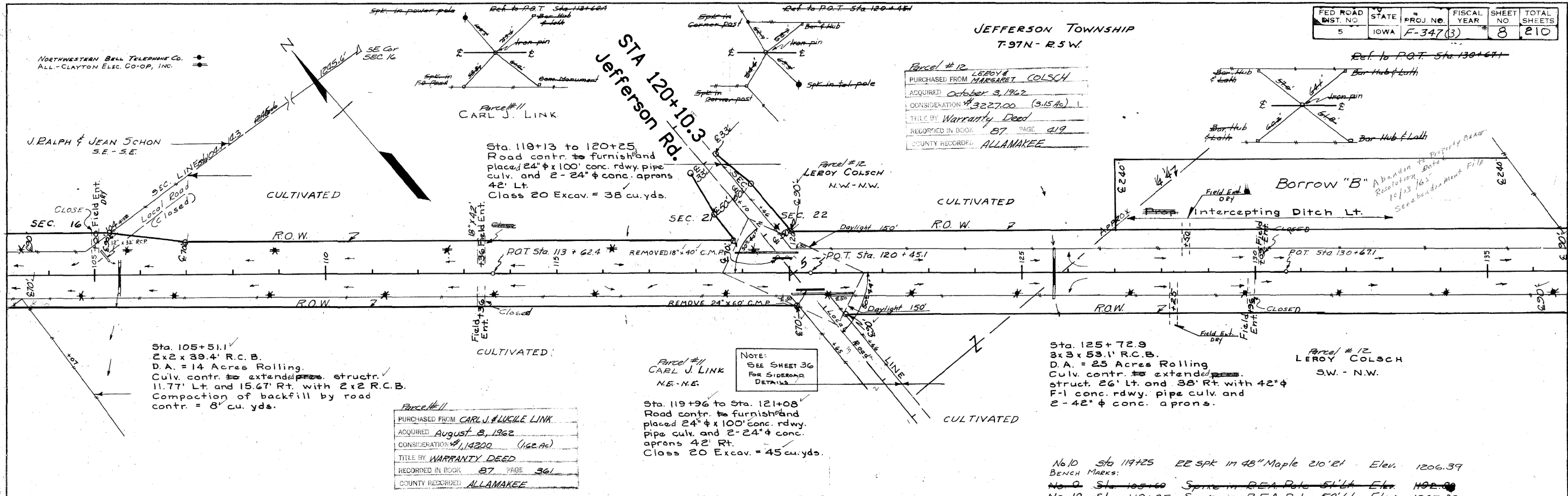
ALLAMAKEE CAS-BUILT PLANS, FOR INFORMATION ONLY OF 210

DATE	BY	REVISIONS
		1. PLAN
		2. PROFILE

DATE	BY	REVISIONS
		1. PLAN
		2. PROFILE

JEFFERSON TOWNSHIP
T.97N - R.5W.

Parcel # 12
PURCHASED FROM LEROY & MARGARET COLSCH
ACQUIRED October 3, 1962
CONSIDERATION \$3227.00 (3.15 Ac.)
TITLE BY Warranty Deed
RECORDED IN BOOK 87 PAGE 419
COUNTY RECORDED ALLAMAKEE



Sta. 105+51.1
2x2 x 39.4' R.C.B.
D.A. = 14 Acres Rolling.
Culv. contr. to extended structure.
11.77' Lt. and 15.67' Rt. with 2x2 R.C.B.
Compaction of backfill by road
contr. = 8' cu. yds.

Parcel # 11
PURCHASED FROM CARL J. & LUCILE LINK
ACQUIRED August 8, 1962
CONSIDERATION \$11,4300 (162 Ac.)
TITLE BY WARRANTY DEED
RECORDED IN BOOK 87 PAGE 361
COUNTY RECORDED ALLAMAKEE

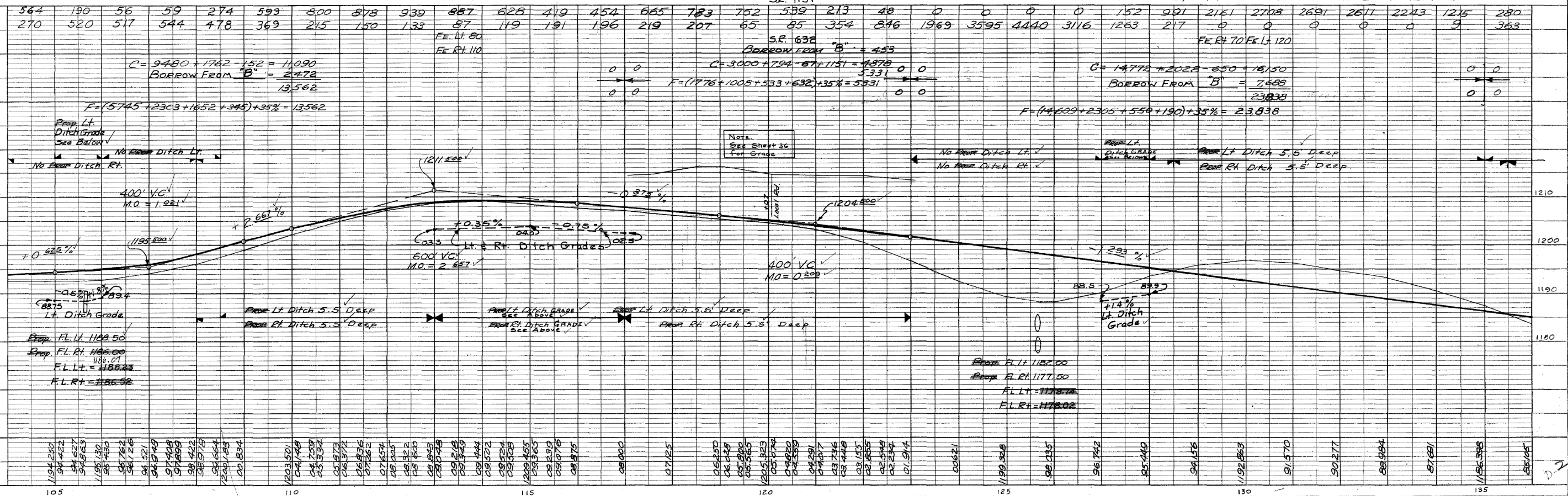
Parcel # 11
CARL J. LINK
N.E.-N.E.
Sta. 119+96 to Sta. 121+08
Road contr. to furnish and
placed 24" φ x 100' conc. rdwy.
pipe culv. and 2-24" φ conc.
aprons 42' Rt.
Class 20 Excav. = 45 cu. yds.

Sta. 125+72.9
3x3 x 53.1' R.C.B.
D.A. = 25 Acres Rolling
Culv. contr. to extended structure.
26' Lt. and 38' Rt. with 42" φ
F-1 conc. rdwy. pipe culv. and
2-42" φ conc. aprons.

No. 10 Sta 119+25 EE SPK in 48" Maple 210' Rt Elev. 1206.39
Bench Marks:
No. 9 Sta 105+60 Spike in R.E.A. Pole 51' Lt Elev. 1192.00
No. 10 Sta 119+25 Spike in R.E.A. Pole 50' Lt Elev. 1207.92

NOTE:
SEE SHEET 36
FOR SPREAD
DETAILS

NOTE:
SEE SHEET 36
FOR GRADE



$$C = 9480 + 1762 - 152 = 11,090$$

$$\text{BORROW FROM "B"} = 2,472$$

$$13,562$$

$$F = (5745 + 2303 + 1652 + 345) + 35\% = 13,562$$

$$C = 3000 + 794 - 67 + 1151 = 4578$$

$$F = (1976 + 1008 + 333 + 632) + 35\% = 5331$$

$$C = 14772 + 2028 - 650 = 16,150$$

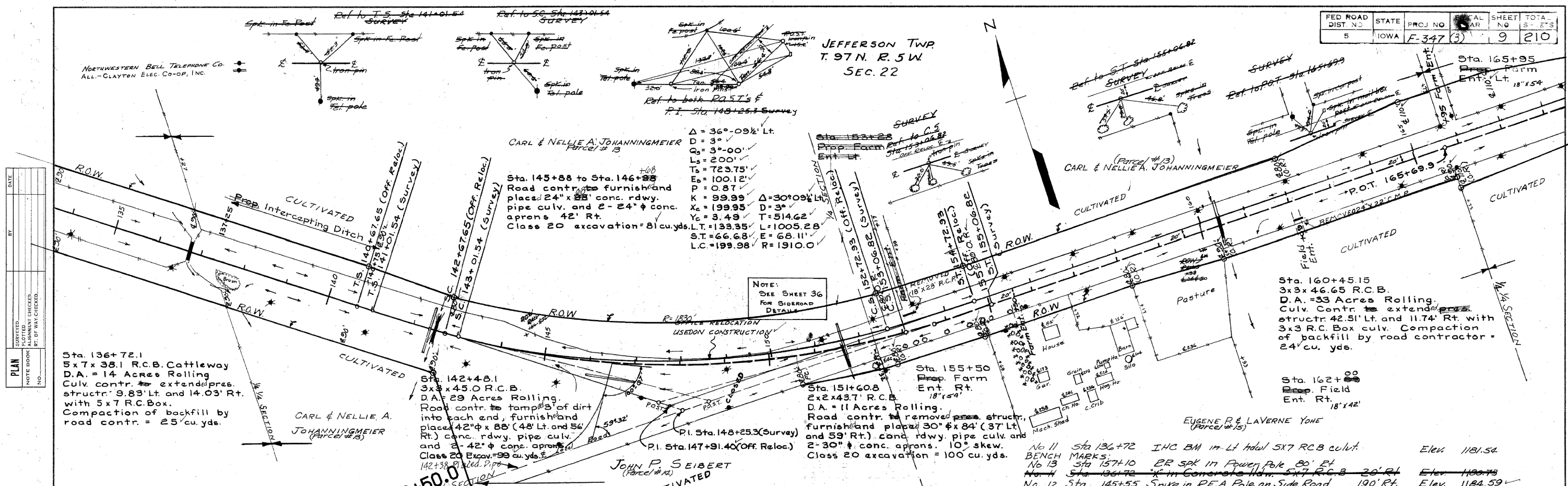
$$\text{BORROW FROM "B"} = 7,486$$

$$23,636$$

$$F = (14,609 + 2305 + 550 + 190) + 35\% = 23,636$$

ALLAMAKEE COUNTY AS-BUILT PLANS, FOR INFORMATION ONLY OF 210

JEFFERSON TWP T. 97 N. R. 5 W SEC. 22

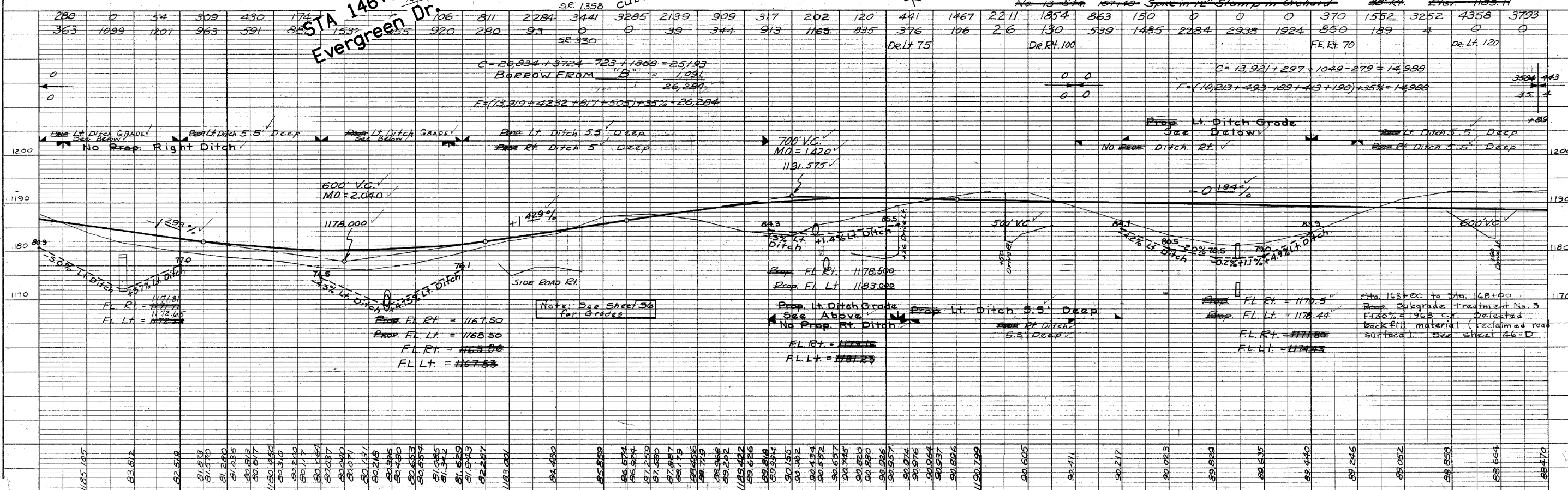


PLAN

DATE	
BY	
REVISIONS	
NO.	

PROFILE

DATE	
BY	
REVISIONS	
NO.	

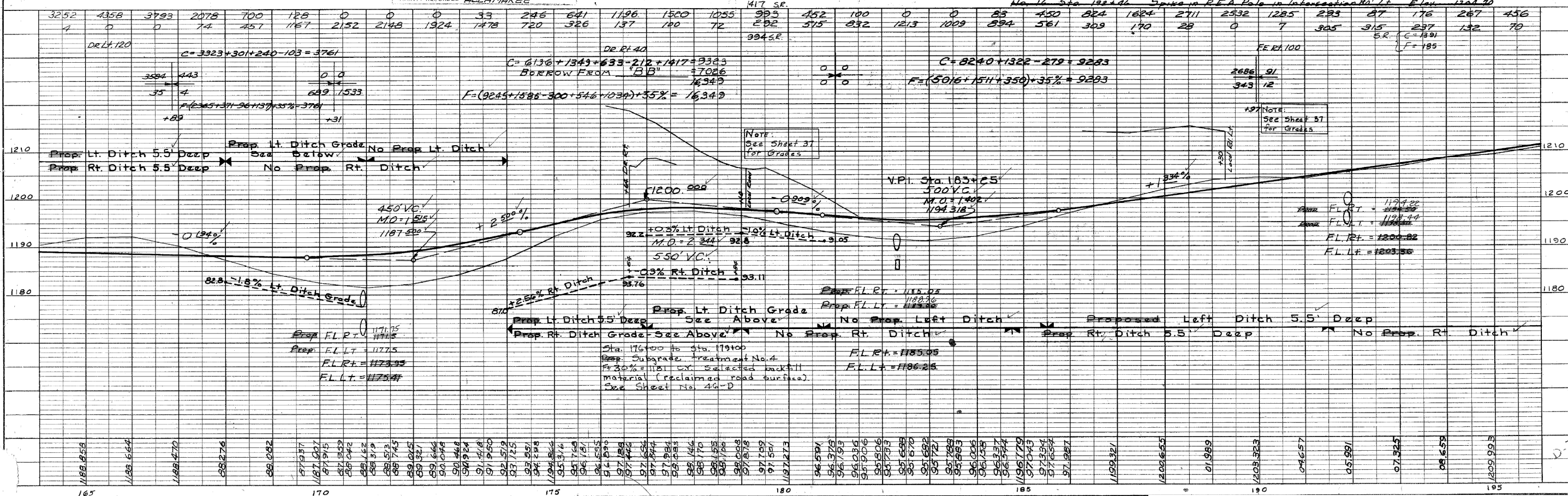
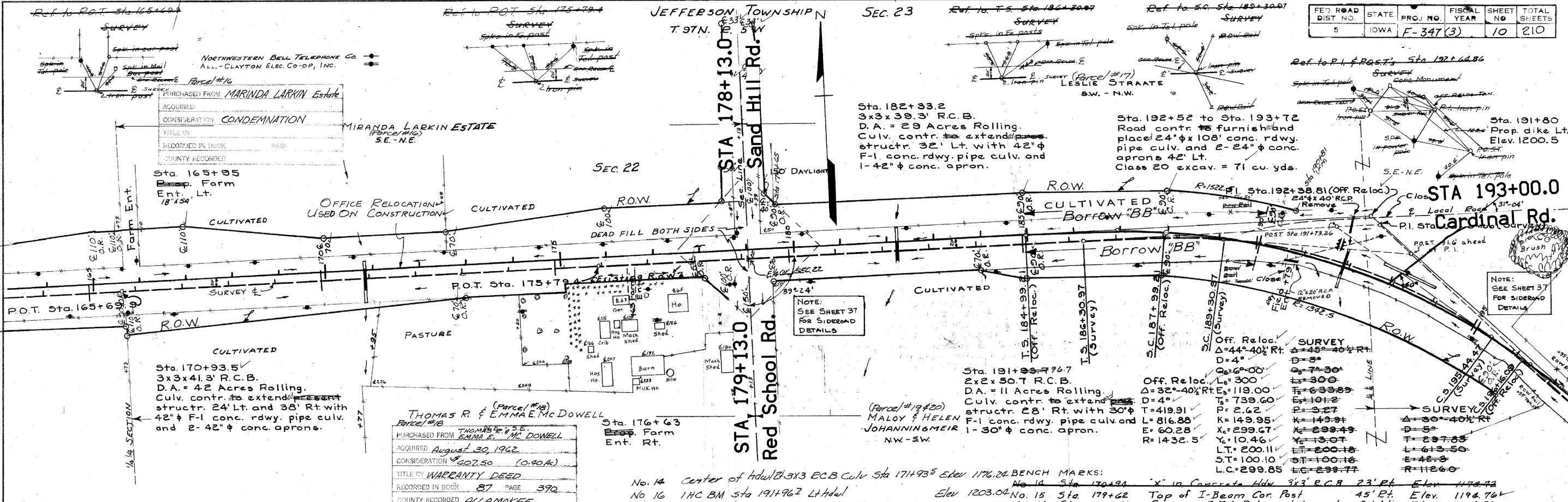


280	0	54	309	430	174	106	811	2284	3441	3285	2199	909	317	202	120	441	1467	2211	1854	863	150	0	0	0	370	1552	3252	4358	3723	
363	1099	1207	963	591	805	1537	255	920	280	93	0	39	344	913	1165	835	376	106	26	130	539	1485	2284	2938	1924	850	189	4	0	0
SR 1358 CULTIVATED																														
C=20,834+3724-723+1368=25,193																														
BORROW FROM "B" = 1,091																														
26,284																														
F=(12,919+4232+817+505)+35%+26,284																														
C=13,921+297+1049-279=14,988																														
F=(10,213+423+189+413+190)+35%+14,988																														
3524 443																														
35 4																														

AS-BUILT PLANS, FOR INFORMATION ONLY
ALLAMAKEE COUNTY PROJECT No. F-347(3) SHEET No. 9 OF 210

FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	IOWA	F-347(3)		10	210

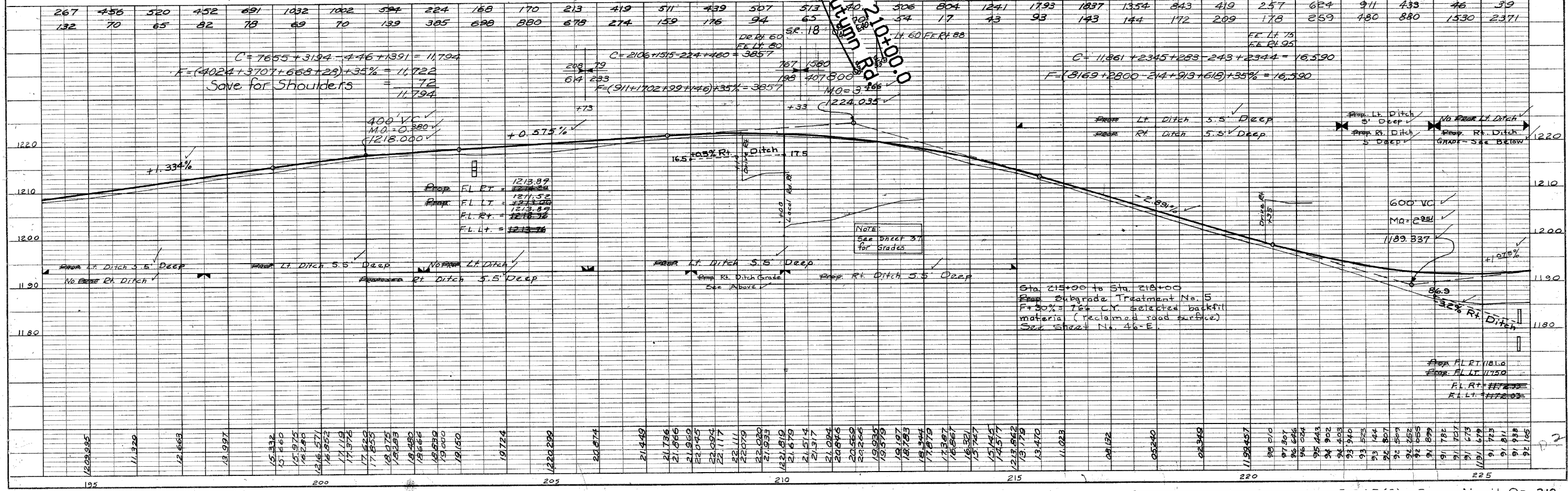
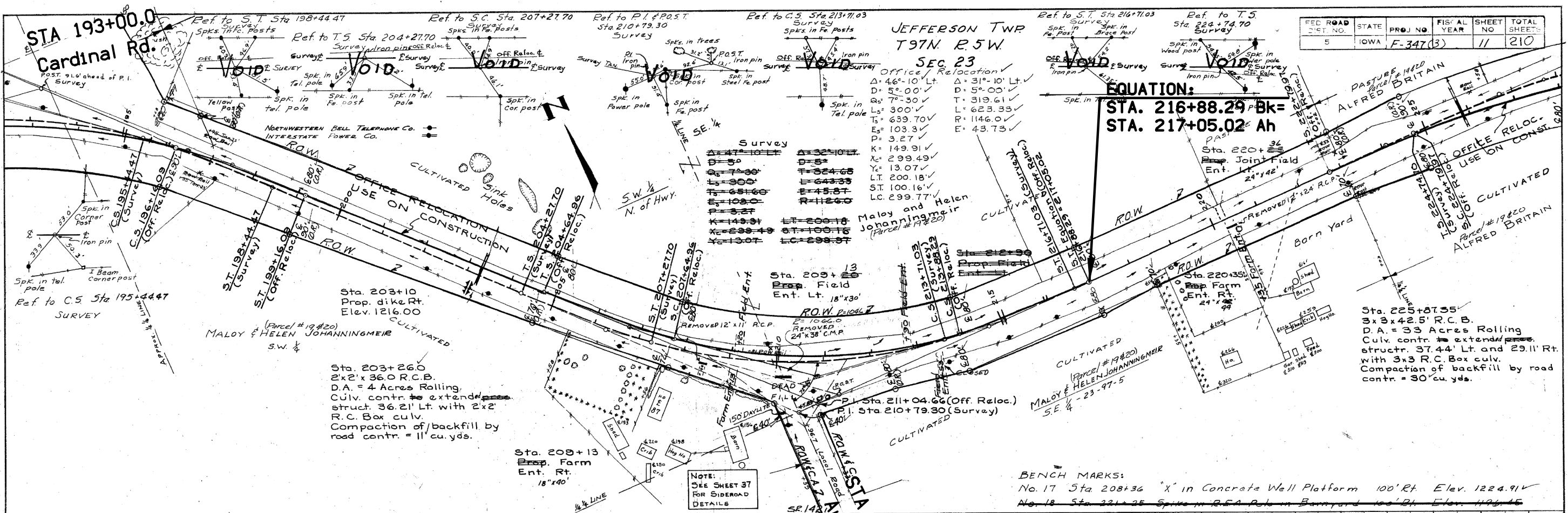
JEFFERSON TOWNSHIP N
T. 97N. R. 33W. SEC. 23



PLAN SURVEYED, PLOTTED, CHECKED, AND RECORDED BY: [Name]

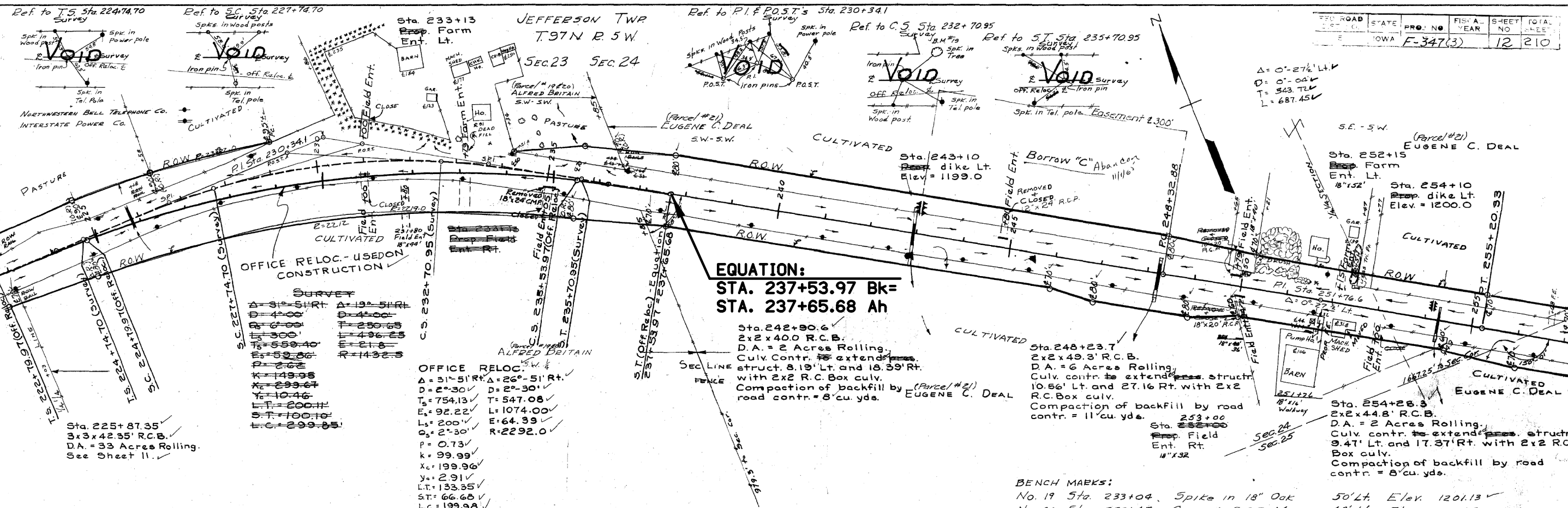
PROFILE SURVEYED, PLOTTED, CHECKED, AND RECORDED BY: [Name]

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IOWA	F-347(3)		11	210



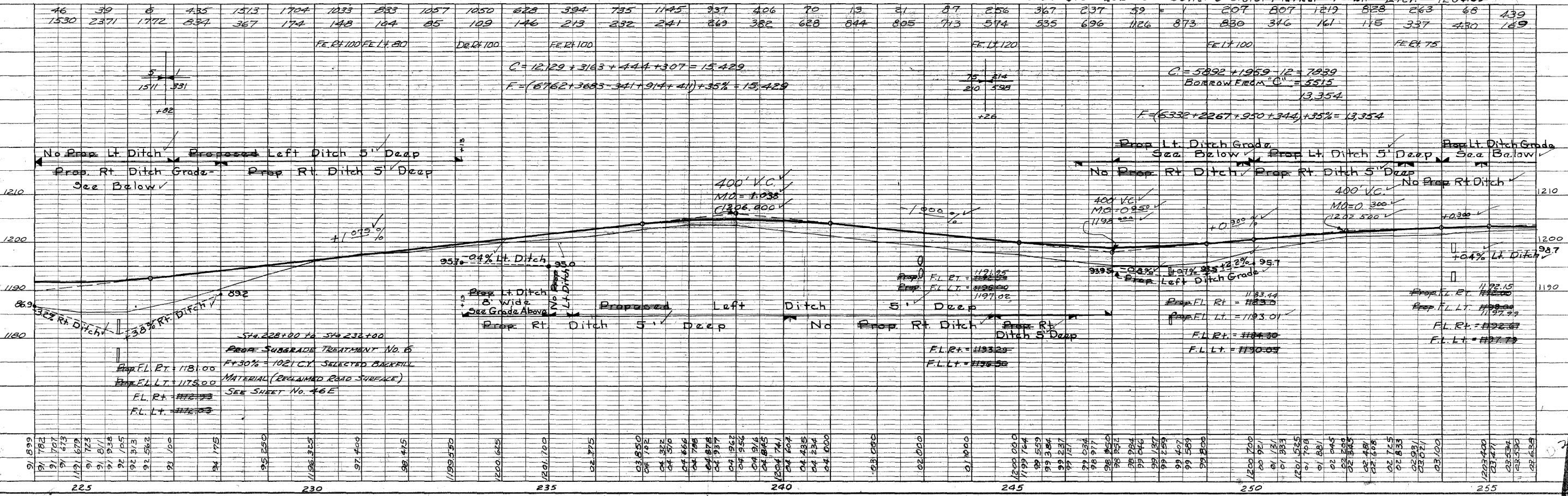
PLAN
 SURVEYED
 PLOTTED
 ALIGNMENT CHECKED
 B.M. NOTED
 STRUCTURE NOTATIONS CRO.
 NO.

PROFILE
 SURVEYED
 GRADES CHECKED
 B.M. NOTED
 STRUCTURE NOTATIONS CRO.
 NO.

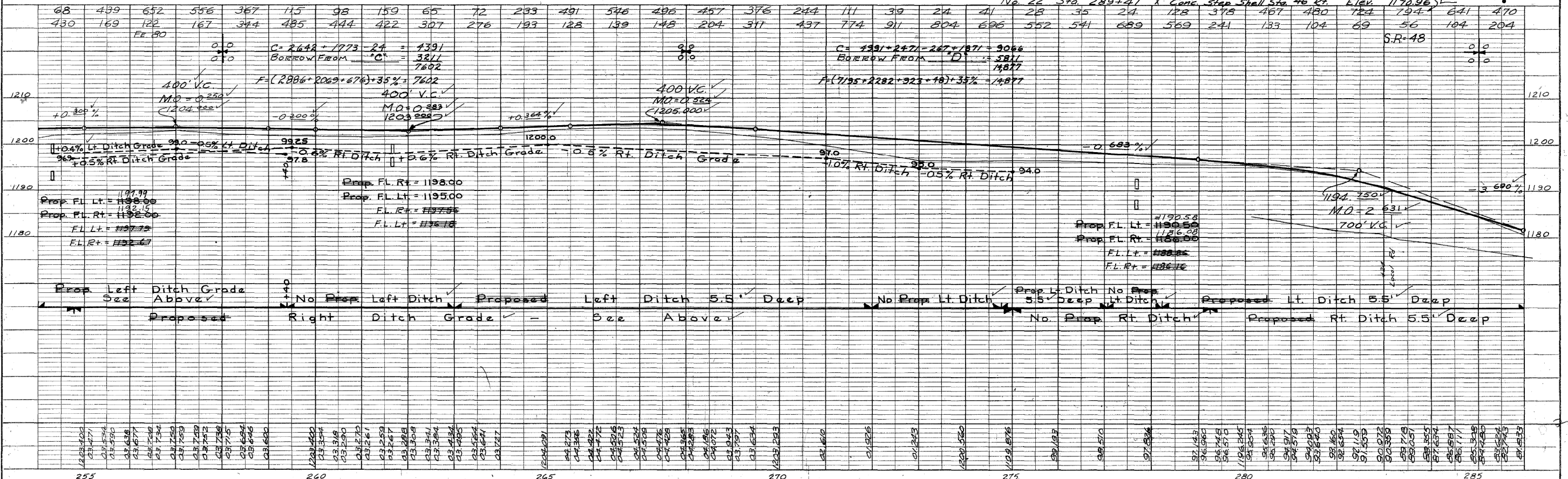
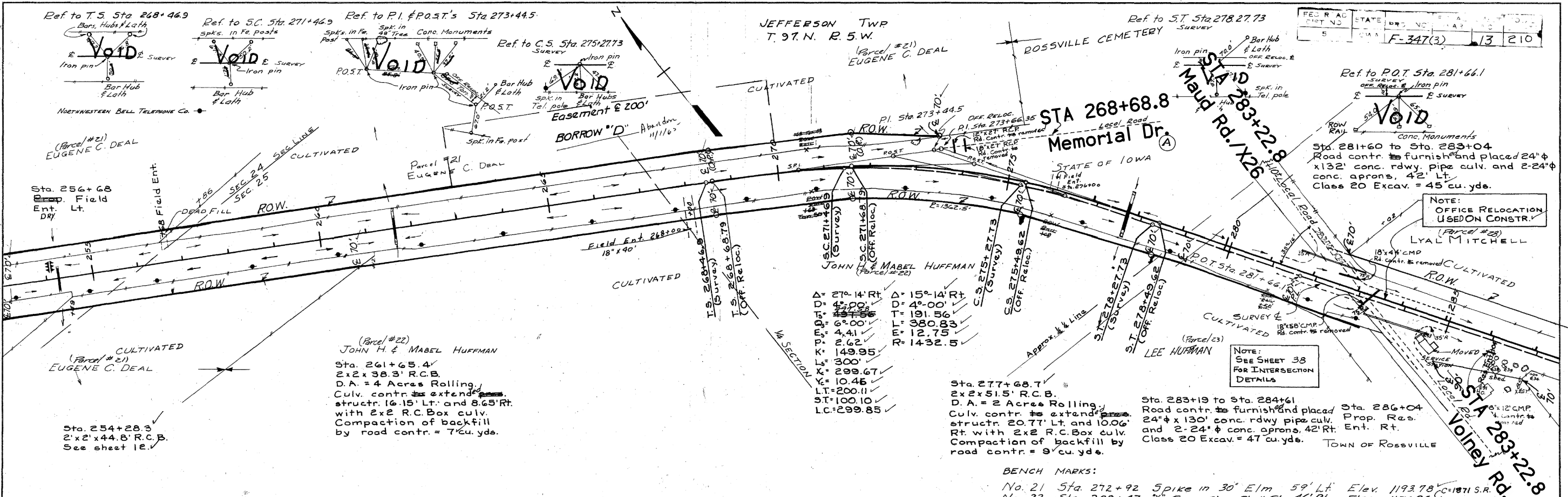


PLAN
 DATE: _____ BY: _____
 CHECKED: _____
 NOTE BOOK NO. _____
 ALIGNMENT CHECKED BY: _____
 REF. OF WAY CHECKED NO. _____

PROFILE
 DATE: _____ BY: _____
 CHECKED: _____
 NOTE BOOK NO. _____
 GRADES CHECKED BY: _____
 E. M. S. NOTED BY: _____
 STRUCTURE QUANTITIES CHECKED BY: _____



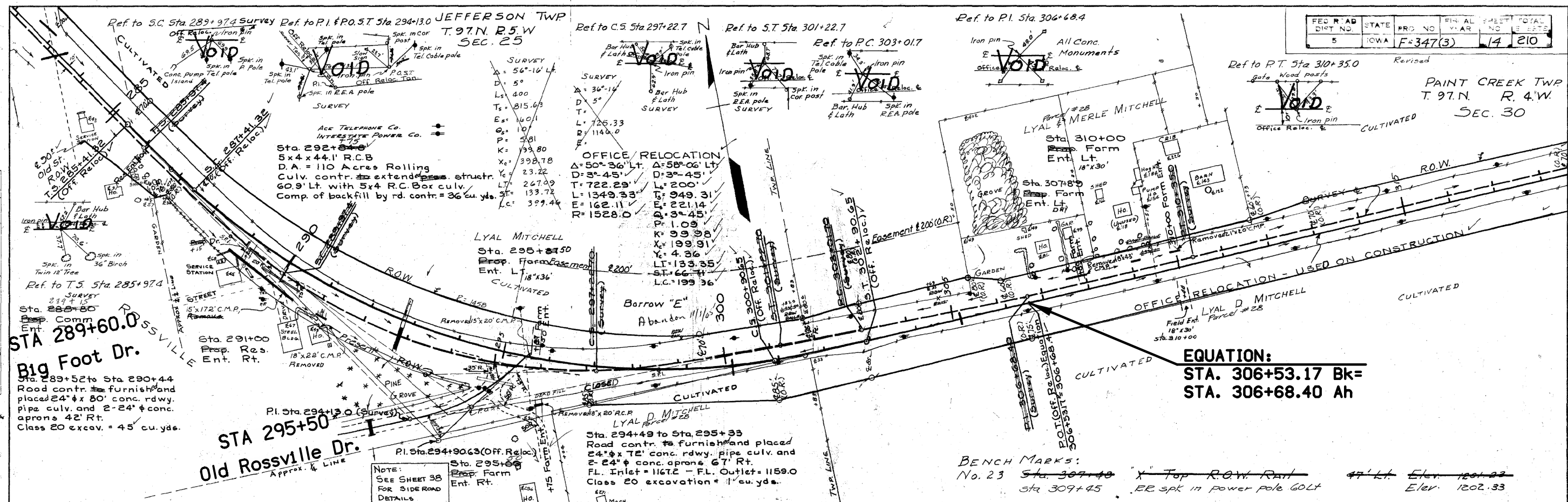
BENCH MARKS:
 No. 19 Sta. 233+04, Spike in 18" Oak 50' Lt. Elev. 1201.13 ✓
 No. 20 Sta. 252+45, Corner U.S.G.S. Marker, 13' Lt. Elev. 1204.33 ✓



PLAN
 SURVEYED, PLOTTED, CHECKED, & AS NOTED.
 NOTE BOOK NO. OF WAY CHECKED.

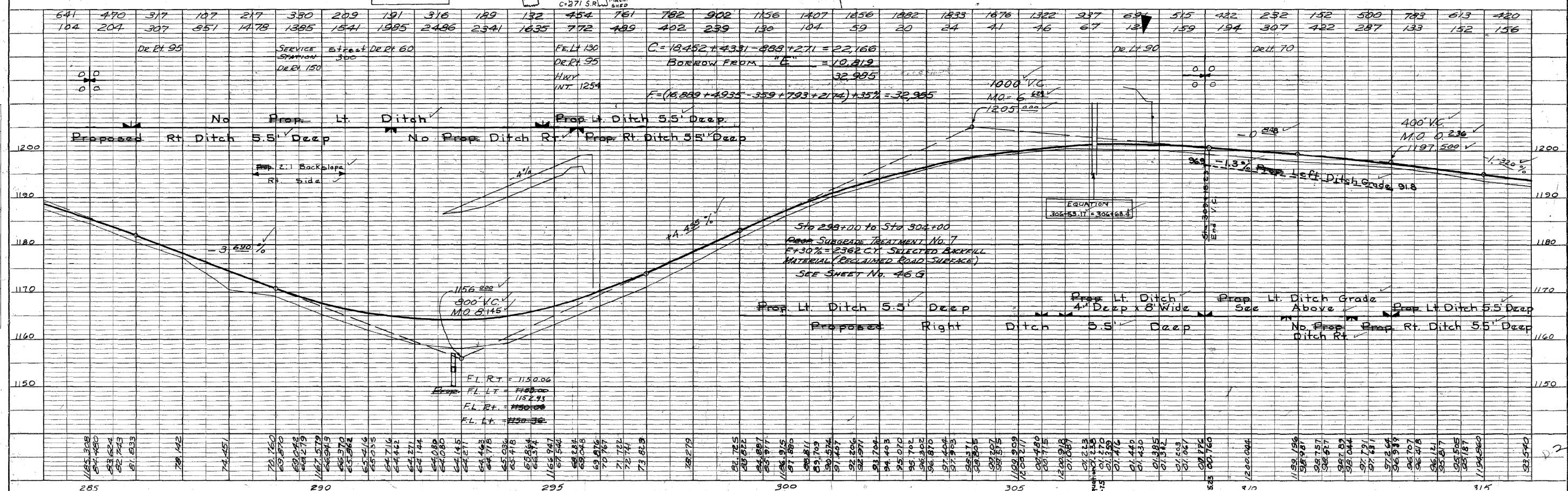
PROFILE
 SURVEYED, PLOTTED, CHECKED, & AS NOTED.
 NOTE BOOK NO. OF STRUCTURE NOTING CHECKED.

FED. ROAD DIST. NO.	STATE	PRO. NO.	FIN. AL. YEAR	SHEET NO.	TOTAL SHEETS
5	IOWA	F-347(3)		14	210



EQUATION:
 STA. 306+53.17 Bk=
 STA. 306+68.40 Ah

BENCH MARKS:
 No. 23 Sta. 309+40 47' Lt. Elev. 1201.22
 Sta. 309+45 RR spk in power pole 60' Lt. Elev. 1202.33



641	470	377	107	217	350	209	191	316	189	132	454	761	782	902	1156	1407	1856	1882	1833	1876	1322	937	691	515	422	232	192	500	783	613	420
104	204	307	551	1478	1385	1541	1995	2486	2341	1635	772	489	402	239	130	104	59	20	24	41	46	67	12	159	194	307	422	287	133	152	156
		DR. RT. 95		SERVICE STATION 300		DR. RT. 60		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95		DR. RT. 95	
		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
		Proposed Rt. Ditch 5.5' Deep		No Prop. Ditch Rt.		Prop. Lt. Ditch 5.5' Deep		Prop. Rt. Ditch 5.5' Deep		Prop. Lt. Ditch 5.5' Deep		Prop. Rt. Ditch 5.5' Deep		Prop. Lt. Ditch 5.5' Deep		Prop. Rt. Ditch 5.5' Deep		Prop. Lt. Ditch 5.5' Deep		Prop. Rt. Ditch 5.5' Deep		Prop. Lt. Ditch 5.5' Deep		Prop. Rt. Ditch 5.5' Deep		Prop. Lt. Ditch 5.5' Deep		Prop. Rt. Ditch 5.5' Deep			
		-3.620%		-1.1%		+1.4%		+1.3%		-1.3%		-1.3%		-1.3%		-1.3%		-1.3%		-1.3%		-1.3%		-1.3%		-1.3%		-1.3%			
		1156.00		300' V.C.		M.O. 0.115		1156.00		1156.00		1156.00		1156.00		1156.00		1156.00		1156.00		1156.00		1156.00		1156.00		1156.00			
		FL. RT. = 1150.06		FL. LT. = 1150.00		FL. RT. = 1152.95		FL. LT. = 1150.00		FL. RT. = 1150.06		FL. LT. = 1150.00		FL. RT. = 1150.06		FL. LT. = 1150.00		FL. RT. = 1150.06		FL. LT. = 1150.00		FL. RT. = 1150.06		FL. LT. = 1150.00		FL. RT. = 1150.06		FL. LT. = 1150.00			
285	290	295	300	305	310	315																									

ALLAMAKEE COUNTY AS-BUILT PLANS, FOR INFORMATION ONLY 4 OF 210

DATE: _____ BY: _____
 SURVEYED: _____
 NOTED: _____
 CHECKED: _____
 NO. _____

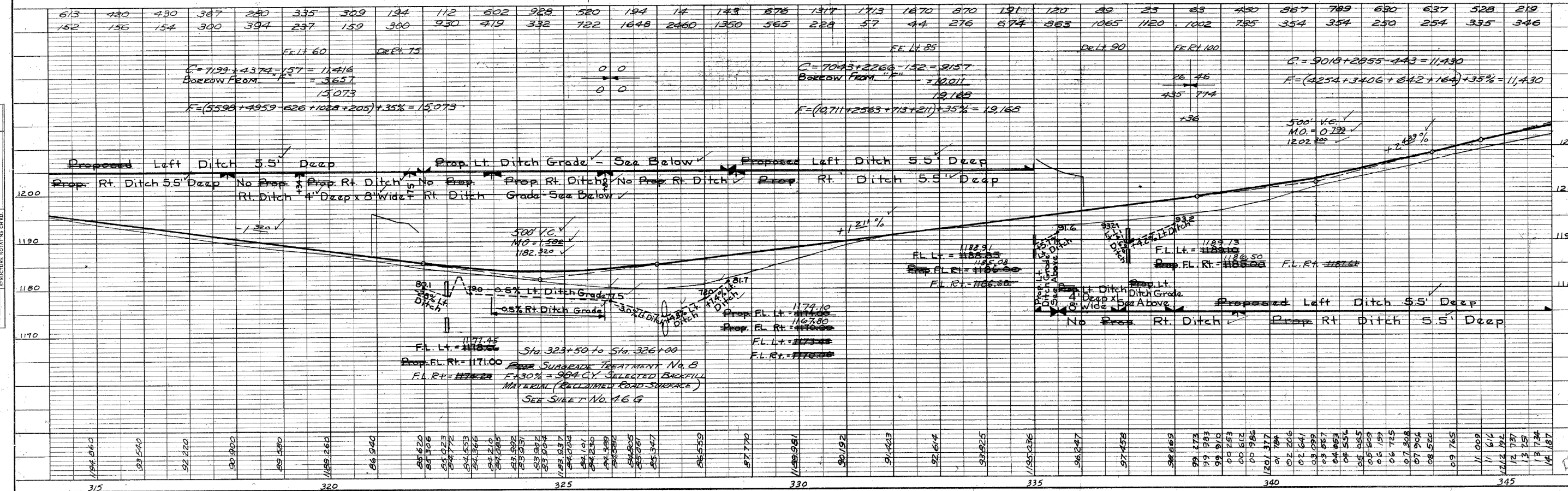
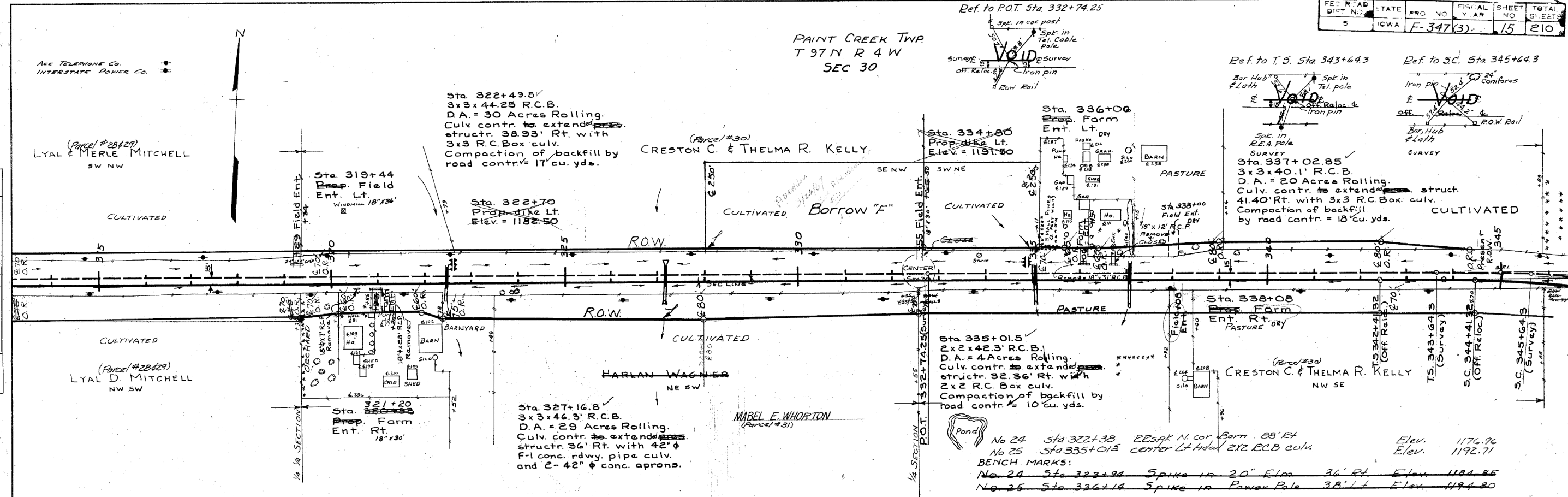
DATE: _____ BY: _____
 SURVEYED: _____
 NOTED: _____
 CHECKED: _____
 NO. _____

PAINT CREEK TWP
T 97 N R 4 W
SEC 30

Ref. to P.O.T. Sta 332+74.25

Ref. to T.S. Sta 343+64.3

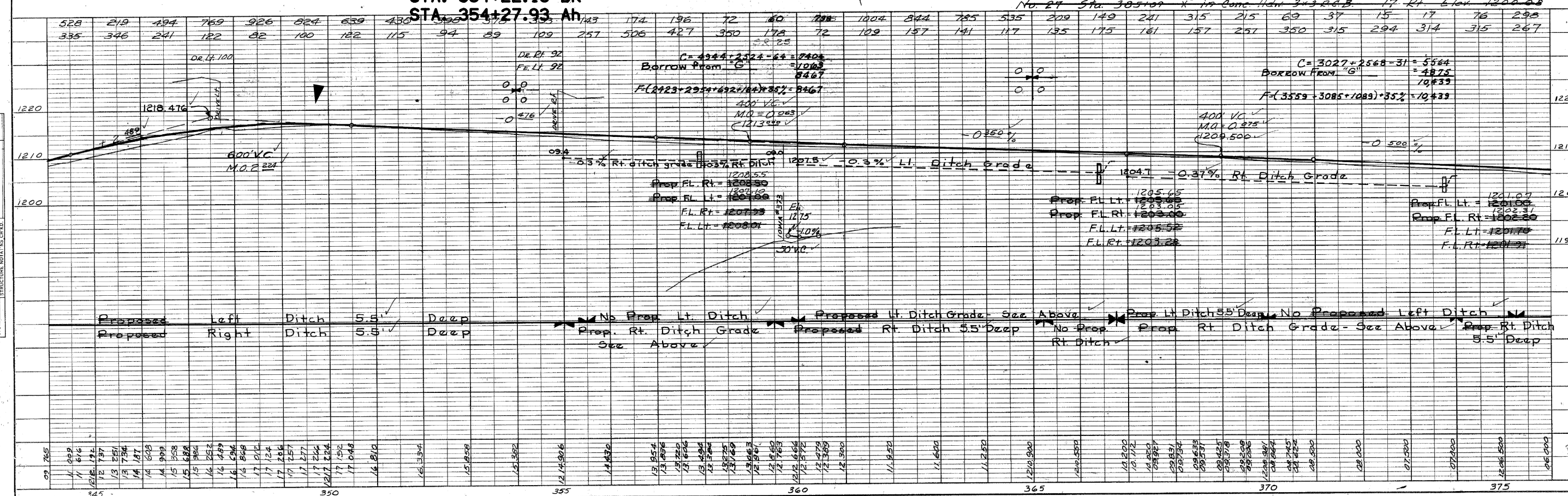
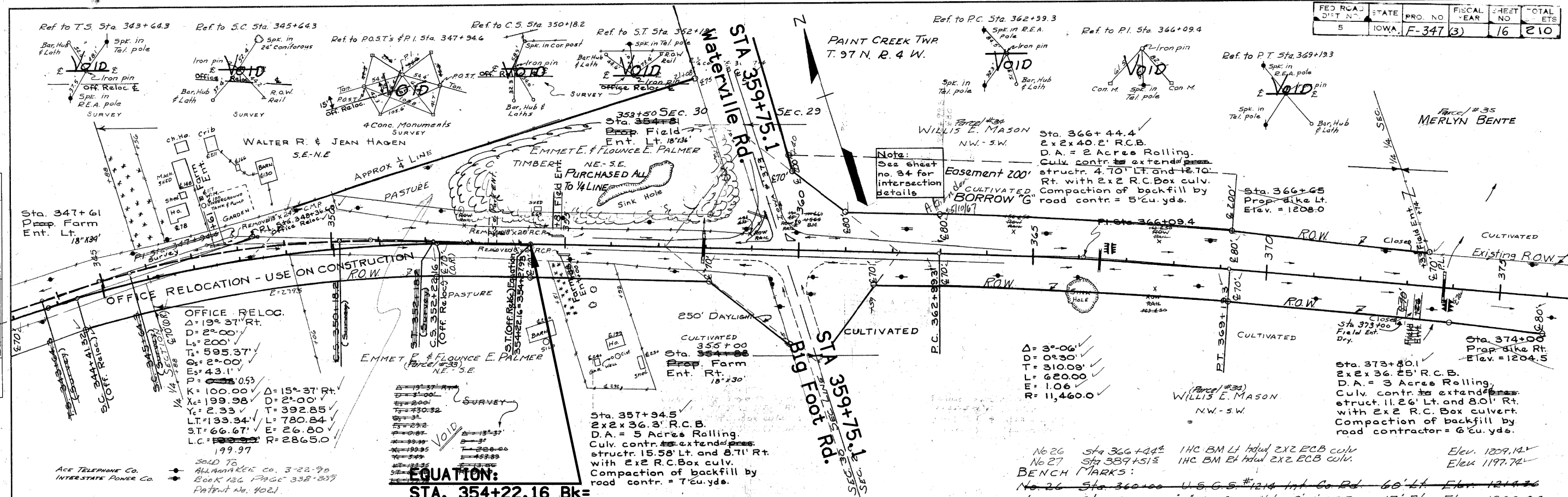
Ref. to S.C. Sta 345+64.3



ALLAMAKEE CAS-BUILT PLANS, FOR INFORMATION ONLY OF 210

PLAN SURVEYED, PLOTTED, CHECKED, NOTE BOOK, BY DATE

PROFILE SURVEYED, PLOTTED, CHECKED, NOTE BOOK, BY DATE

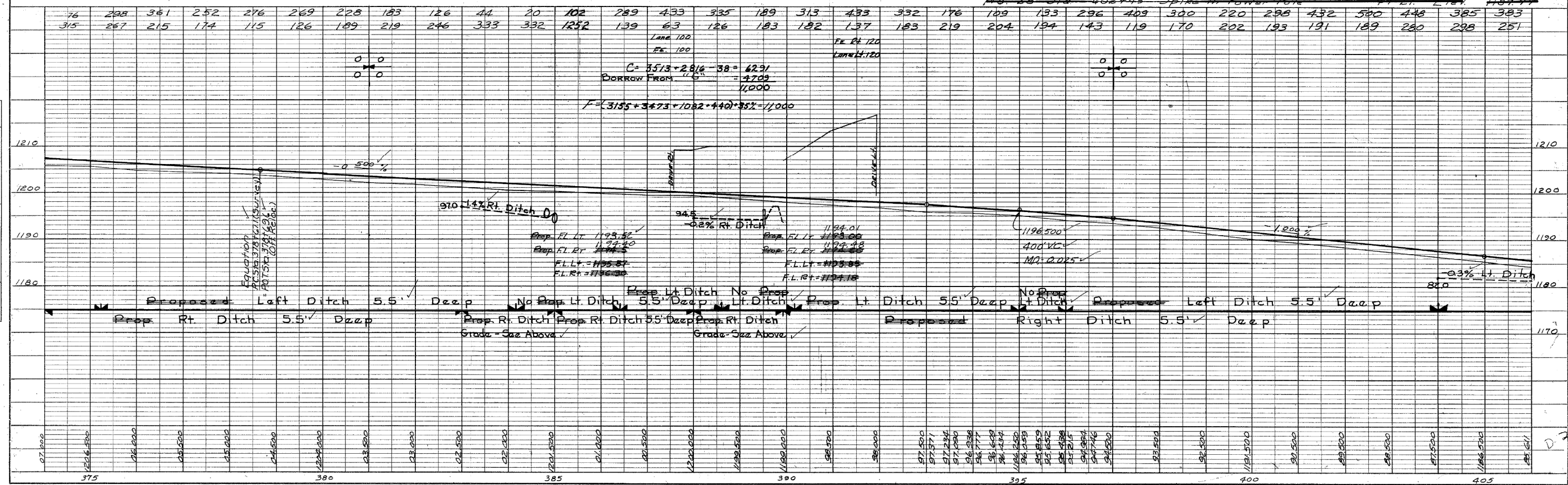
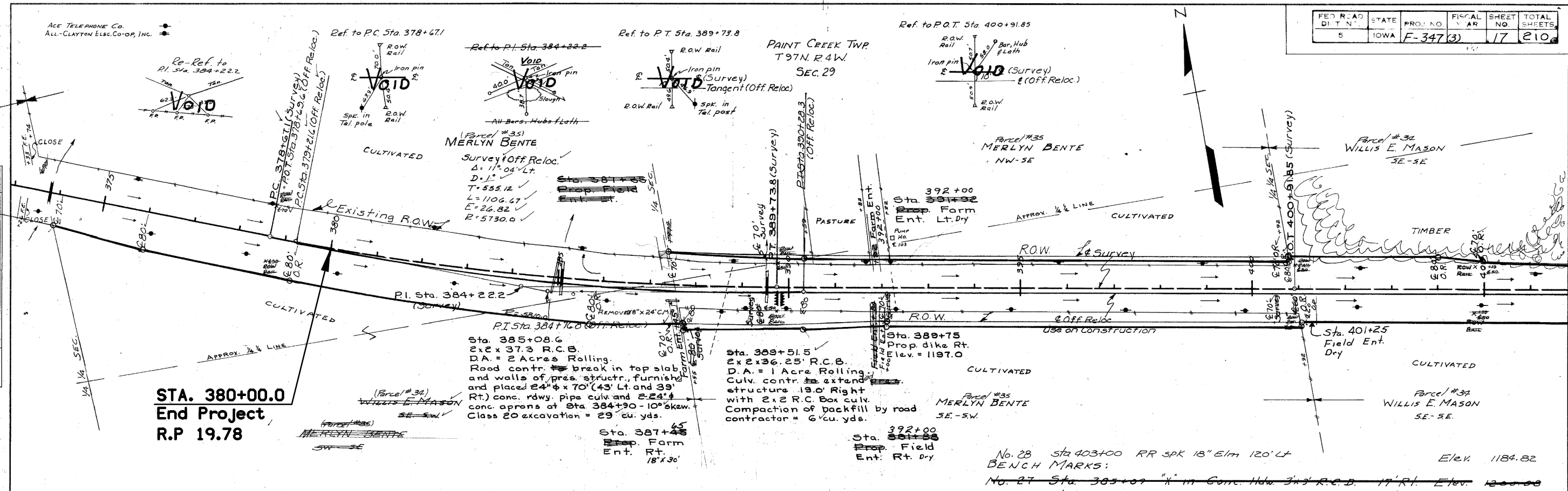


PLAN
 SURVEYED, PLOTTED, CHECKED, RE-CHECKED
 NOTE BOOK NO. _____
 DATE _____

PROFILE
 SURVEYED, PLOTTED, CHECKED, RE-CHECKED
 NOTE BOOK NO. _____
 DATE _____

ALLAMAKEE CAS-BUILT PLANS, FOR INFORMATION ONLY OF 210

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IOWA	F-347(3)		17	210



ALLAMAKEE CAS-BUILT PLANS, FOR INFORMATION ONLY OF 210

PLAN
SURVEYED, PLOTTED, CHECKED, NOTE BOOK, RT. OF WAY CHECKED, NO.

PROFILE
SURVEYED, PLOTTED, CHECKED, B. A.S. NOTED, STRUCTURE, NOTATION CHECKED, NO.

DATE	NO.	BY	CHKD.
F-347(1)	34	218	55

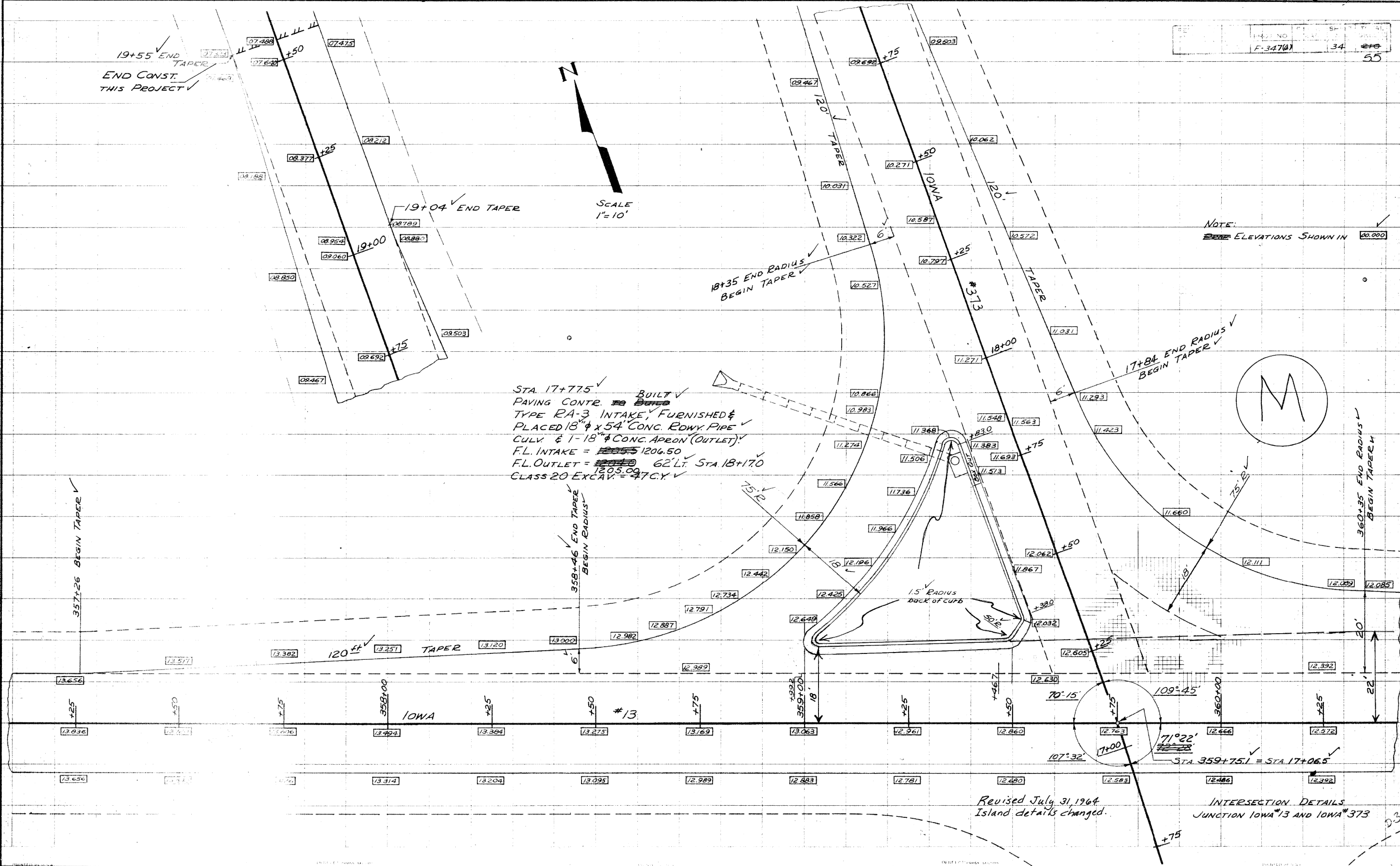
19+55 END TAPER
END CONST. THIS PROJECT



SCALE 1" = 10'

NOTE: ELEVATIONS SHOWN IN 100.000

STA. 17+775 BUILT PAVING CONTR. TYPE RA-3 INTAKE FURNISHED & PLACED 18" x 54' CONC. ROWY PIPE CULV. & 1-18" CONC. APRON (OUTLET) F.L. INTAKE = 1206.50 F.L. OUTLET = 1205.09 CLASS 20 EXCAV. = 47 CY



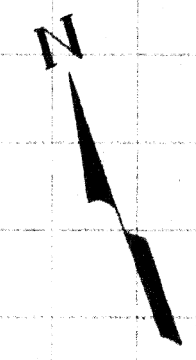
Revised July 31, 1964
Island details changed.

INTERSECTION DETAILS
JUNCTION IOWA #13 AND IOWA #373

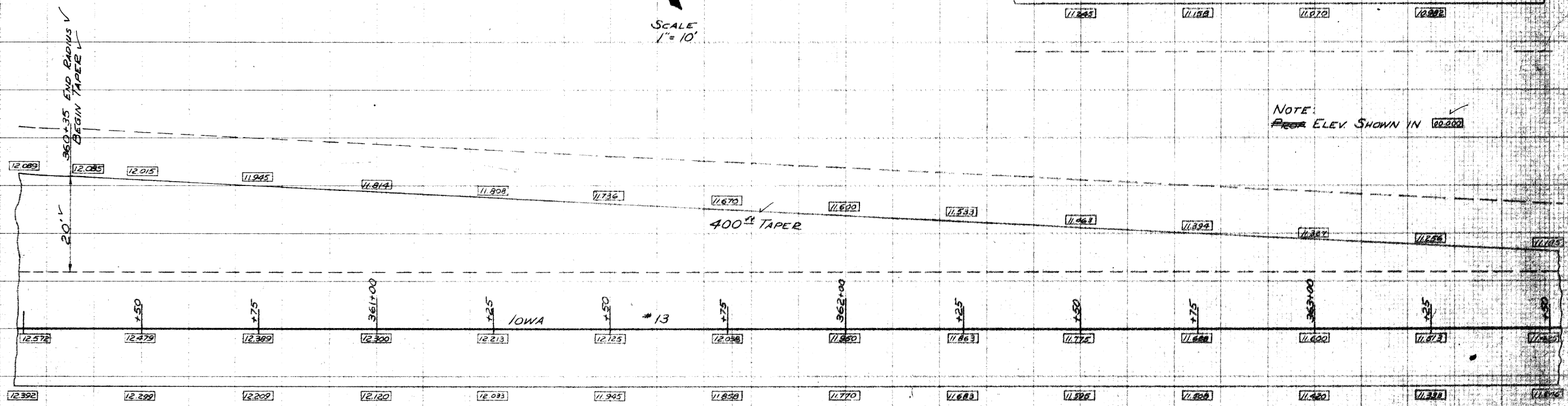
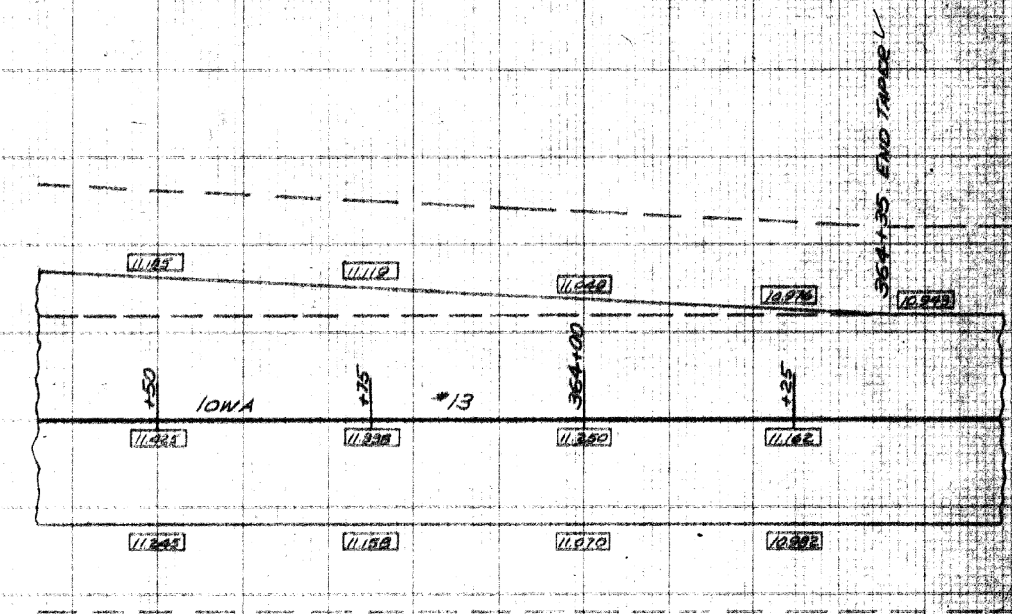
ALLAMAKEE COUNTY PROJECT No. F-347(1) SHEET No. 34 OF 24
AS-BUILT PLANS, FOR INFORMATION ONLY

34-A

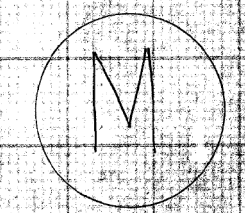
DATE	BY	APP	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			IOWA F-307(4)		34A	50



SCALE 1" = 10'



INTERSECTION DETAILS
JUNCTION IOWA 13 AND IOWA 373

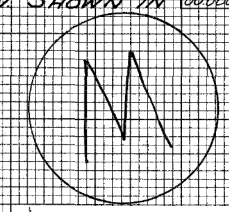
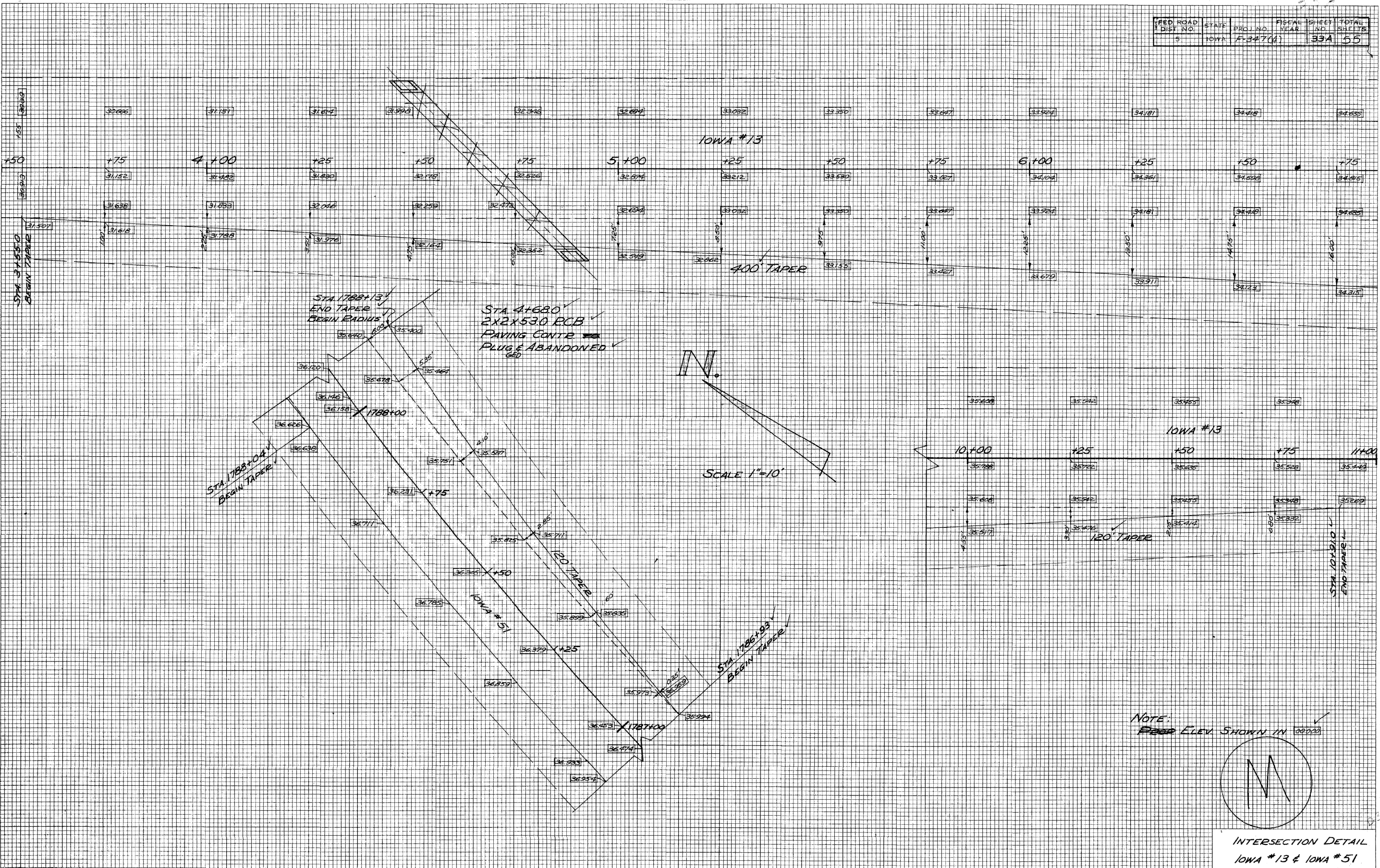


AS-BUILT PLANS, FOR INFORMATION ONLY
ALLAMAKEE COUNTY PROJECT NO. STP-076-2(065)--2C-03\HSIPX-076-2(66)--3L-03 SHEET NO. 34A OF 50

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IOWA	F-347(4)		33A	55

DATE	BY	CHKD.

DATE	BY	CHKD.



INTERSECTION DETAIL
IOWA #13 & IOWA #51

ALLAMAKEE COUNTY

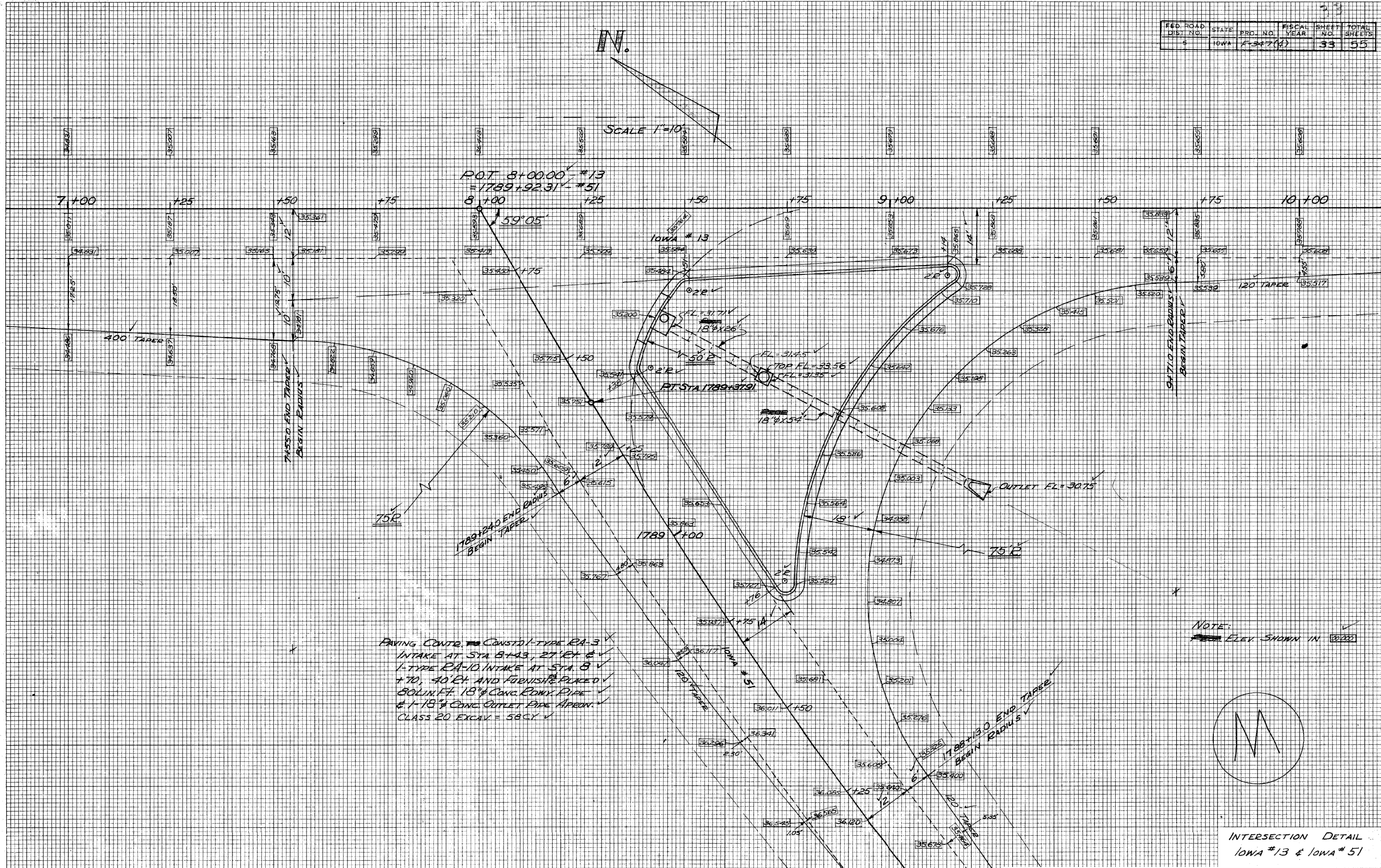
Per. AS-BUILT PLANS, FOR INFORMATION ONLY 33A OF 55

ENGINE DESIGNED BY
 1982 AND WATER-HYDRO VHS DESIGNED IN 1" = 40'
 BY V.L.E. & G.O.B.B. SECTION 15' x 15' x 15' x 15' x 15'

FED. ROAD DIST. NO.	STATE	PRO. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IOWA	F-347(1)		33	55

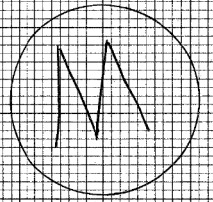
NO.	DATE	BY	CHKD.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

NO.	DATE	BY	CHKD.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			



PAVING CONTR. TO CONSTD-TYPE RA-3
 INTAKE AT STA 8+43, 27' ET &
 1-TYPE RA-10 INTAKE AT STA 8
 +70, 40' ET AND FURNISH & PLACE
 60 LIN. FT. 18" CONC. EDGY PIPE
 & 18" CONC. OUTLET PIPE APRON.
 CLASS 20 EXCAV. = 58 CY

NOTE:
 ELEV. SHOWN IN (3020)



INTERSECTION DETAIL
 IOWA #13 & IOWA #51

ALLAMAKEE COUNTY AS-BUILT PLANS, FOR INFORMATION ONLY
 SHEET NO. 33 OF 55

511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			none									

111-01
04-17-12

COORDINATED OPERATIONS

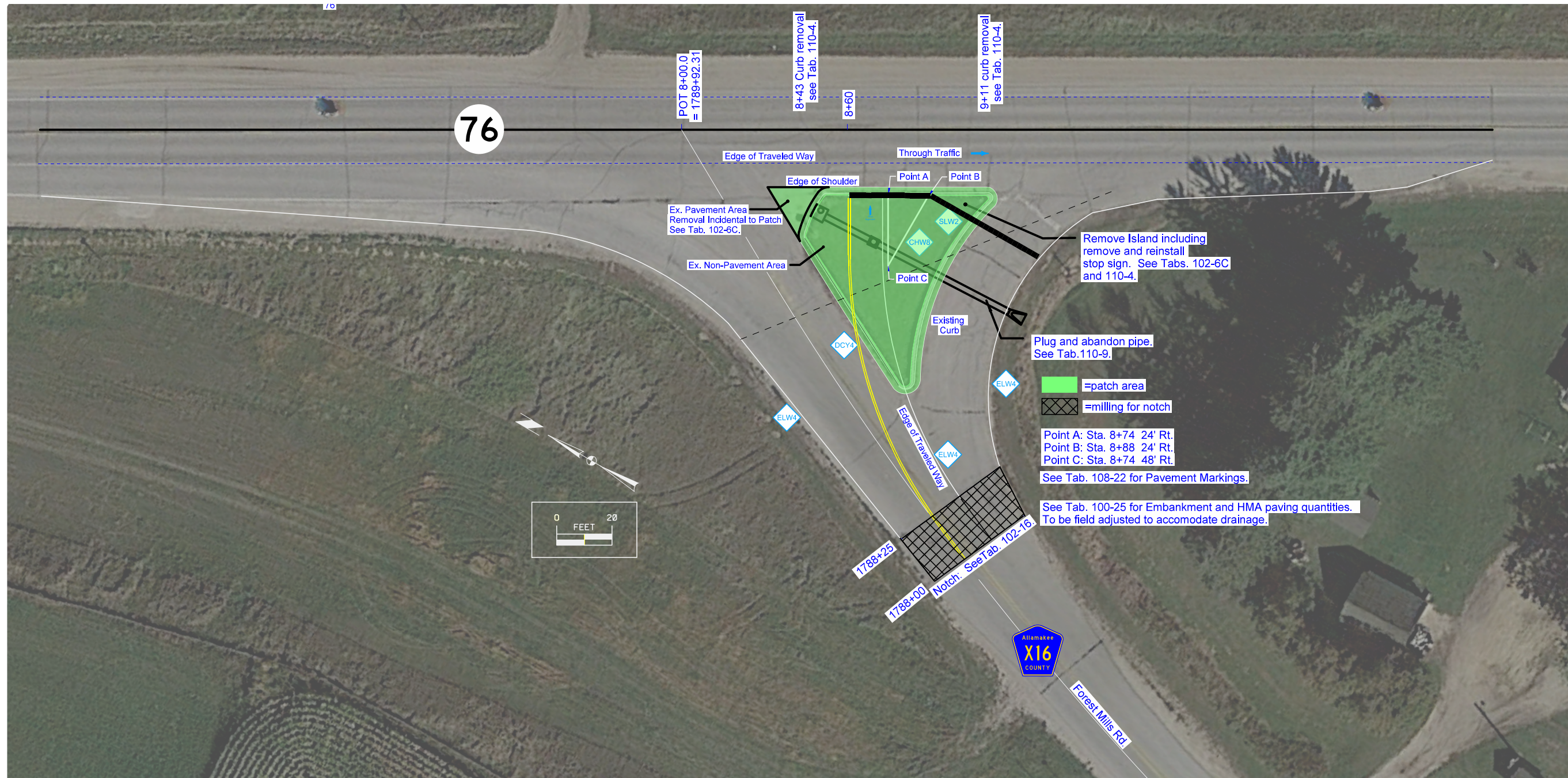
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
Discuss at Precon Meeting	

108-23A
08-01-08

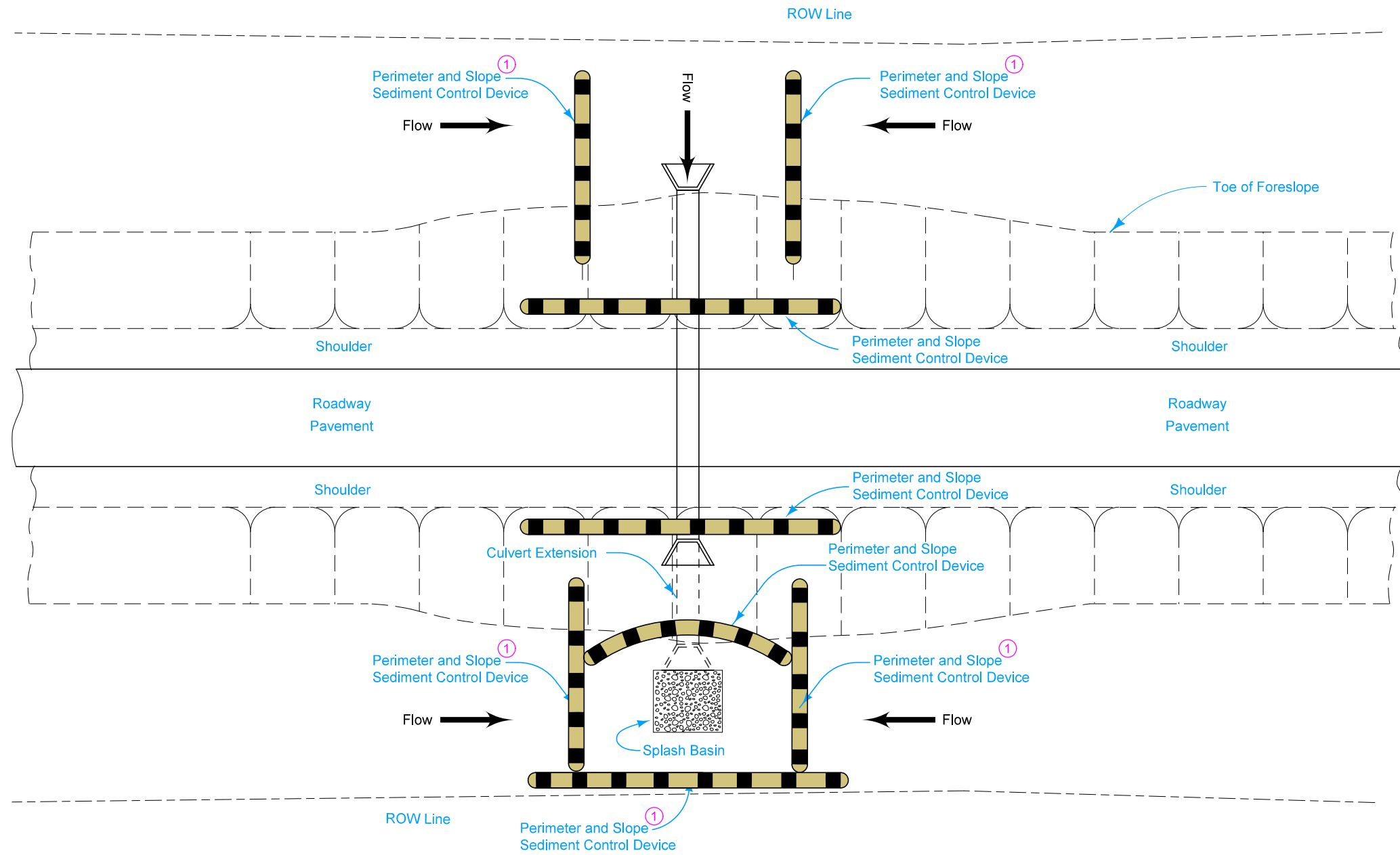
TRAFFIC CONTROL PLAN

Thru traffic shall be maintained at all times.





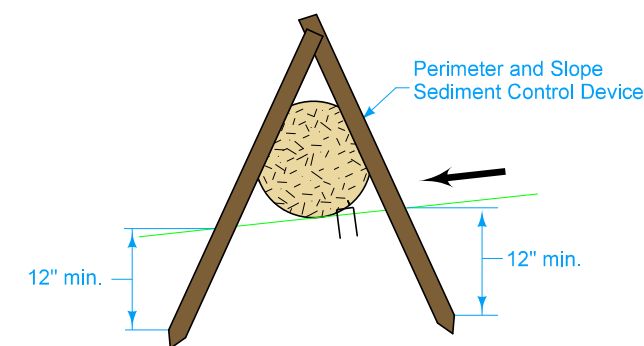
See Standard Road Plans EC-201, EC-204, and EC-301 for installation details.



① Silt Fence for Ditch Check may be substituted at no additional cost to the Contracting Authority.

Possible Contract Items:
 Perimeter and Slope Sediment Control Device
 Erosion Stone
 Class E Revetment
 Engineering Fabric

Possible Tabulations:
 100-19
 100-23
 100-34



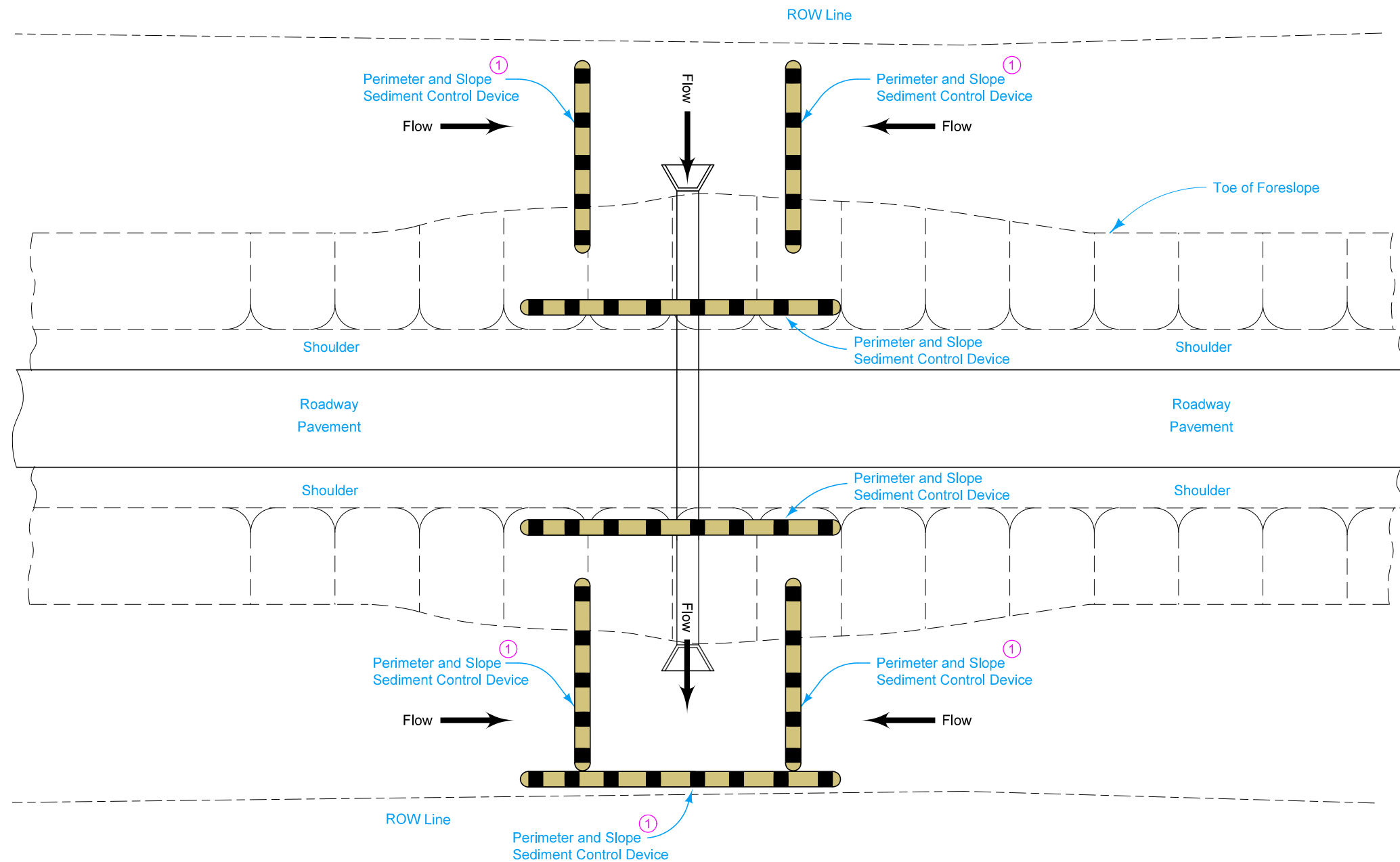
ROAD DESIGN DETAIL	REVISION	
	1	10-19-21
	570-11	
SHEET 1 of 1		

REVISIONS: Added cross section for staking details.

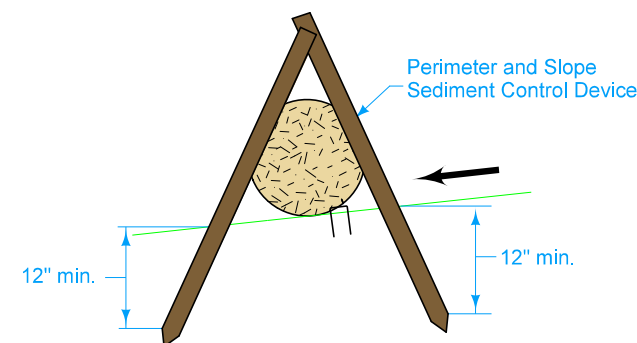
**TEMPORARY SEDIMENT CONTROL
 FOR CULVERT EXTENSION WITH
 EXPOSED SOIL**

See Standard Road Plans EC-201 and EC-204 for installation details.

① Silt Fence for Ditch Check may be substituted at no additional cost to the Contracting Authority.



NON-CONTINUOUS FLOW CULVERT



Possible Contract Items:
Perimeter and Slope Sediment Control Device

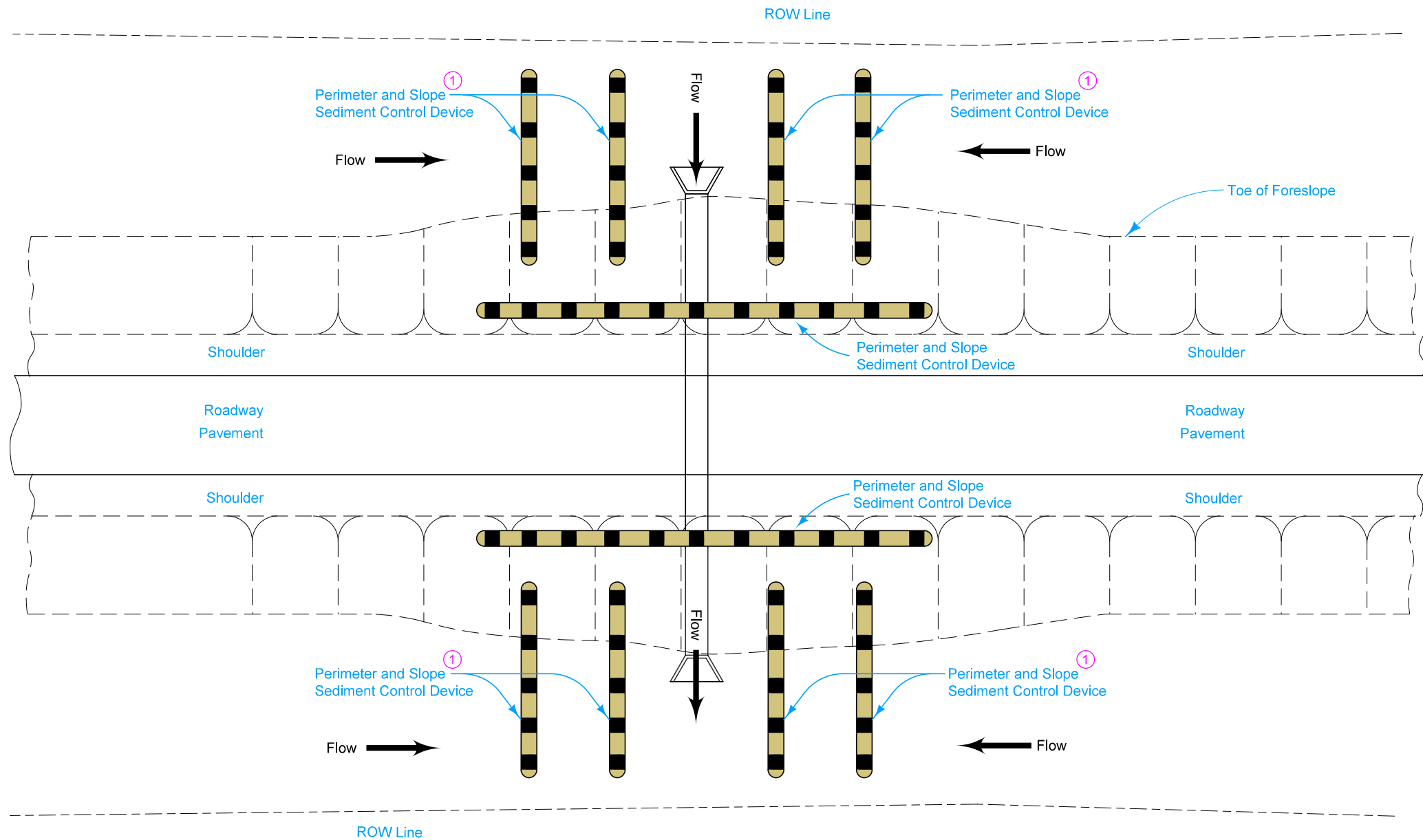
Possible Tabulations:
100-19
100-34

ROAD DESIGN DETAIL	REVISION	
	1	10-19-21
	570-12	
SHEET 1 of 2		

REVISIONS: Added cross section for staking details.

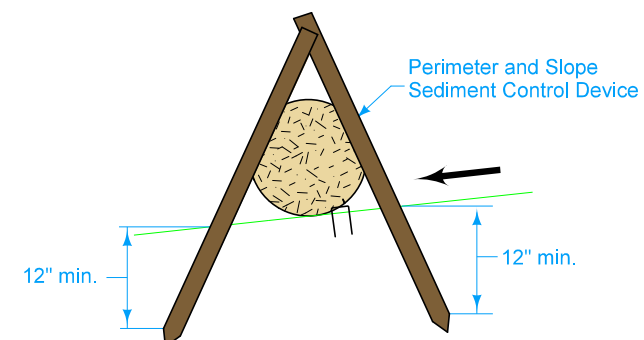
**TEMPORARY SEDIMENT CONTROL
FOR SHOULDER WIDENING WITH
EXPOSED SOIL**

AS-BUILT PLANS, FOR IN EXPOSED SOIL ONLY



① Silt Fence for Ditch Check may be substituted at no additional cost to the Contracting Authority.

CONTINUOUS FLOW CULVERT



		REVISION	
		1	10-19-21
ROAD DESIGN DETAIL		570-12	
		SHEET 2 of 2	

REVISIONS: Added cross section for staking details.

**TEMPORARY SEDIMENT CONTROL
FOR SHOULDER WIDENING WITH
EXPOSED SOIL**