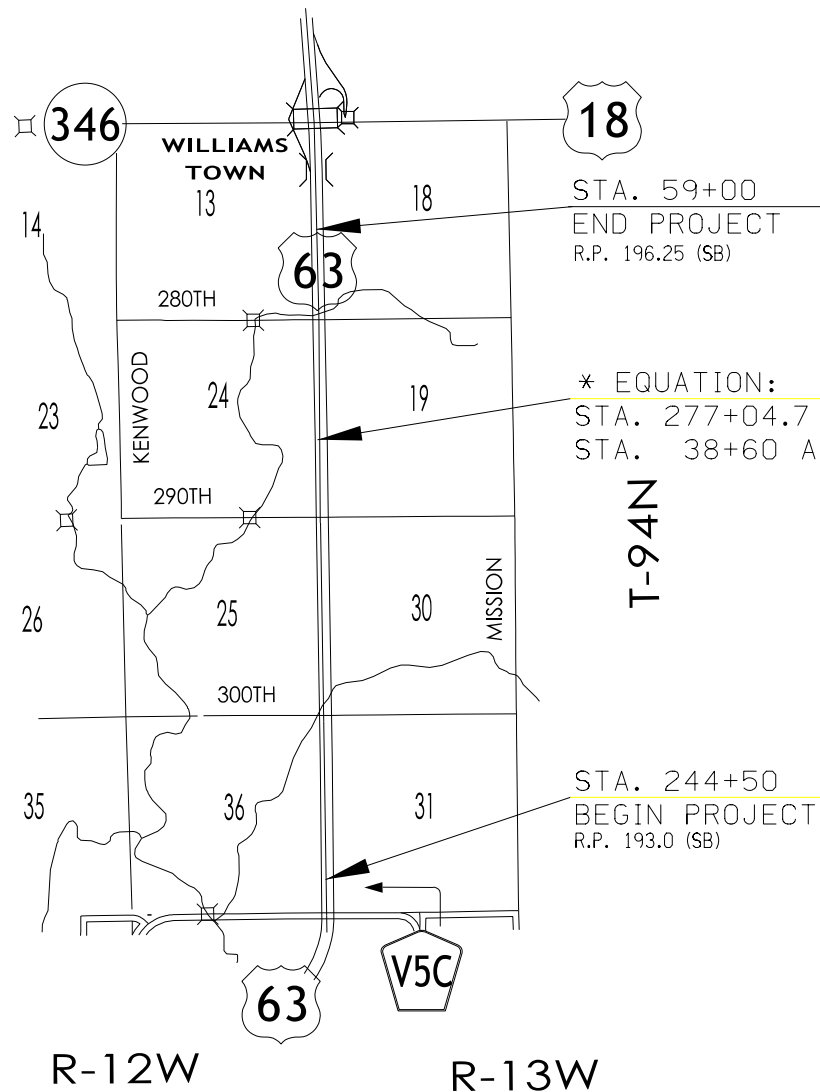




REVISIONS

TOTAL	..
PROJECT IDENTIFICATION NUMBER	22-19-063-010
PROJECT NUMBER	NHSX-063-8(71)--3H-19
R.O.W. PROJECT NUMBER	

PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
CHICKASAW COUNTY
HMA Resurfacing/Cold in-Place Recycling
0.25 mi N of Bremer Co Line to S of IA 346 (SB)



STA. 59+00
END PROJECT
R.P. 196.25 (SB)

* EQUATION:
STA. 277+04.7 BK =
STA. 38+60 AH

STA. 244+50
BEGIN PROJECT
R.P. 193.0 (SB)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

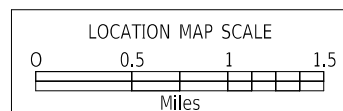
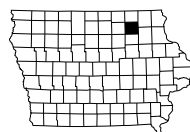
Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



MILEAGE SUMMARY			105-1 09-27-94
Div.	Location	Lin. Ft.	Miles
	Sta. 244+50 to 277+04.7	10,678.1	2.02
	* Sta. Eq. 277+04.7 Bk. = 38+60 Ah.		
	Sta. 38+60 to 59+00	6,692.9	1.27
	Note : Metric Stations		
Total		17,371.0	3.29

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.1-19	As-Built Information Sheets
J.1	Traffic Control Sheet
* U.1- U.3	500 Series and Detail Sheets
* Denotes Color Sheets	

* The station equation is for quantity purposes on this project only.
The station equation was developed from as built plan information without survey.



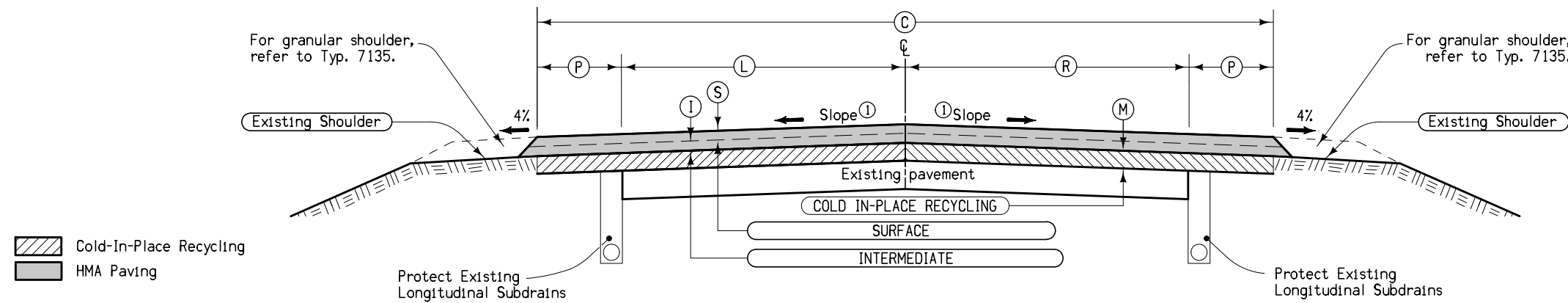
Bi-Directional DESIGN DATA RURAL	
2023 AADT	5100 V.P.D.
2043 AADT	6100 V.P.D.
20 -- DHV	-- V.P.H.
TRUCKS	22 %
Total Design ESALs	3,918,640

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

PRELIMINARY PLANS

Subject to change by final design.

D2 PLAN – Date: X



Cold-In-Place Recycling

HMA Paving

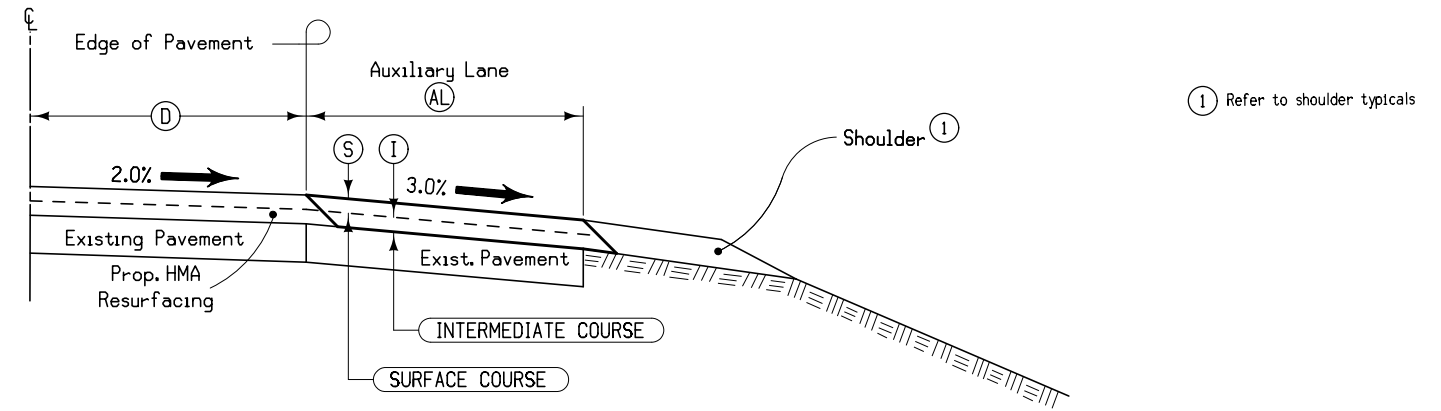
Notes:

- ① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping.
- ② Suspend C-I-P-R at continuously reinforced PC patches and other PC patches as directed by the Engineer.

* Stations are shown in metric

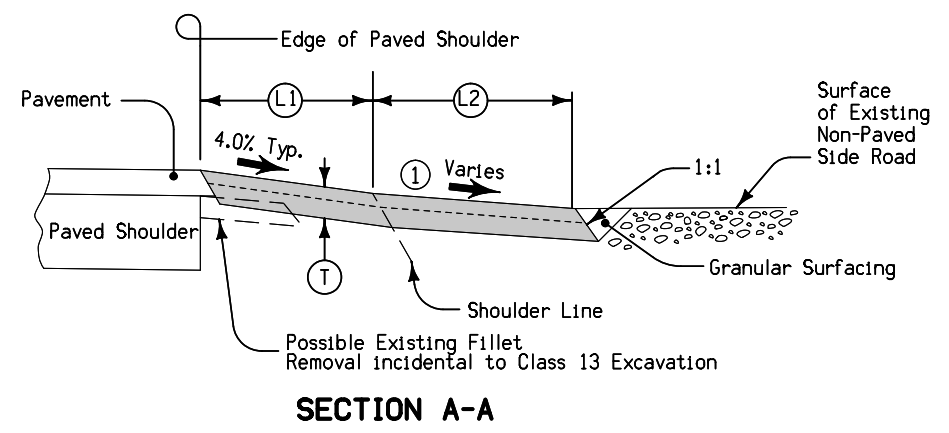
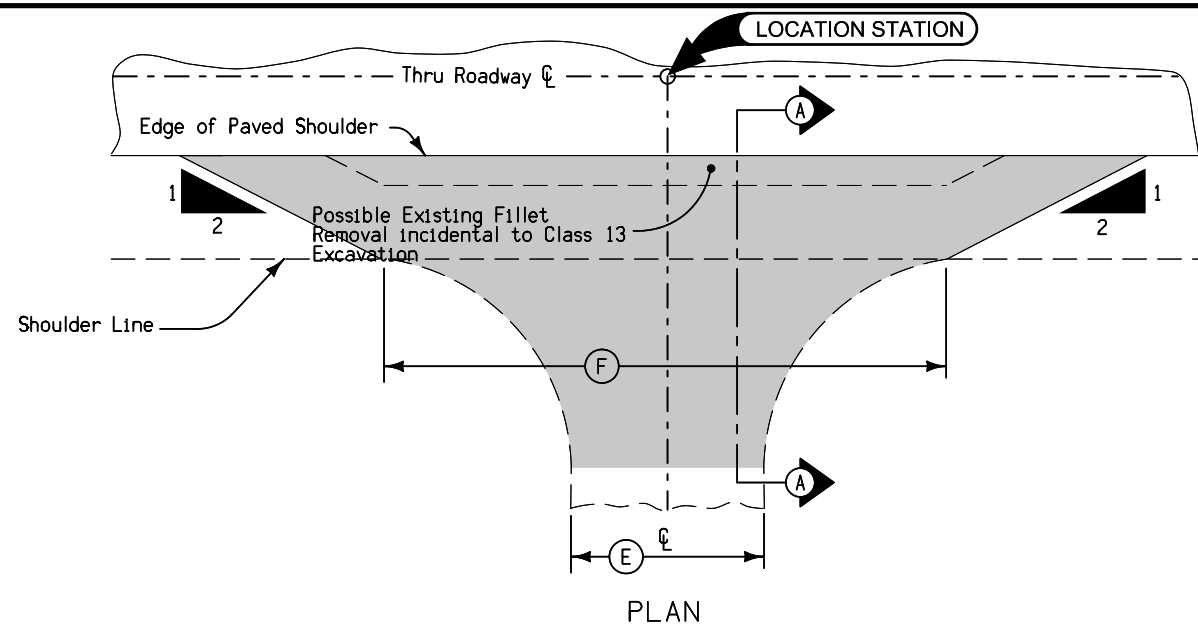
Location		(M)	(I)	(S)	(L)	(R)	(C)	(P)	Remarks
Station To Station		Inches	Inches	Inches	Feet	Feet	Feet	Feet	
244+50.0	244+95.7	4	0-1.5	1.5	12	12	32	4	BOP
244+95.7	58+54.3	4	1.5	1.5	12	12	32	4	
58+54.3	59+00.0	4	0-1.5	1.5	12	12	32	4	EOP
Note: Equation Stations not shown. See Tabs. 100-25 and 112-9.									

TYPICAL CROSS SECTION COLD IN-PLACE RECYCLING WITH HMA RESURFACING



Road Identification	Direction of Travel	Location		Side	(D)	(AL)	(S)	(I)
		Station To	Station		Feet	Feet	Inches	Inches
US 63	SB	255+96.8	256+28.6	Rt	12	4-12	1.5	1.5
US 63	SB	256+28.6	257+14.2	Rt	12	12	1.5	1.5
US 63	SB	257+14.2	257+50.2	Rt	12	12-4	1.5	1.5
US 63	SB	272+18.7	272+53.2	Rt	12	4-12	1.5	1.5
US 63	SB	272+53.2	273+36.9	Rt	12	12	1.5	1.5
US 63	SB	273+36.9	273+72.9	Rt	12	12-4	1.5	1.5
US 63	SB	38+60.0	40+38.0	Rt	12	0-22	1.5	1.5
US 63	SB	40+38.0	40+80.0	Rt	12	22	1.5	1.5
US 63	SB	40+80.0	41+86.0	Rt	12	22-0	1.5	1.5

TYPICAL HALF SECTION
HMA RESURFACING
EXISTING AUXILIARY LANE



Special shaping of existing surface prior to placement of fillet or fillet extension may be required by the Engineer and is incidental to other work on the project.

① Match existing slope.

100% STATE (Div. 1)

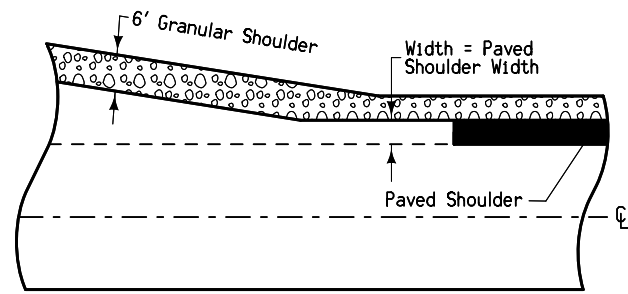
Station Location	F Feet	T Inches	L ₁ Feet	Remarks
256+46.7	89.0	6	6.0	300th St. Lt.
272+69.0	89.0	6	6.0	290th St. Lt
50+57.0	85.0	6	6.0	280th St. Lt

100% COUNTY (Div. 2)

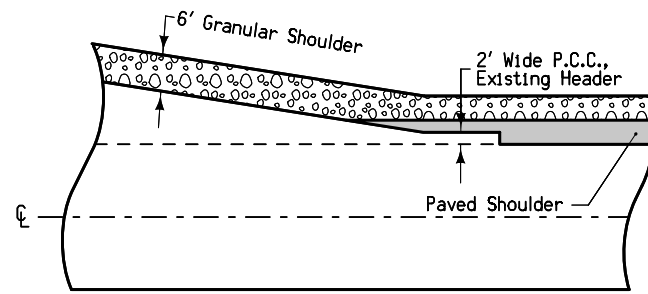
Station Location	E Feet	T Inches	L ₂ Feet	Remarks
256+46.7	20.0	6	40.0	300th St. Lt.
272+69.0	25.0	6	40.0	290th St. Lt
50+57.0	21.0	6	40.0	280th St. Lt

FILLET EXTENSION FOR
NON-PAVED SIDE ROADS

7154A
10-20-09



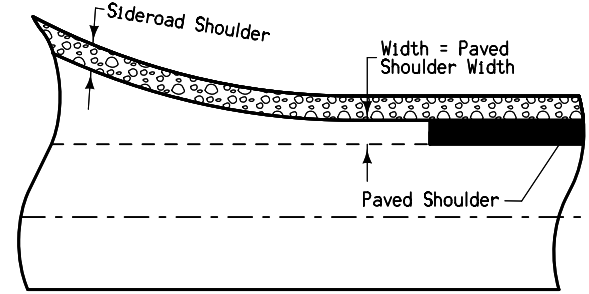
With Newly Constructed Turn Lanes



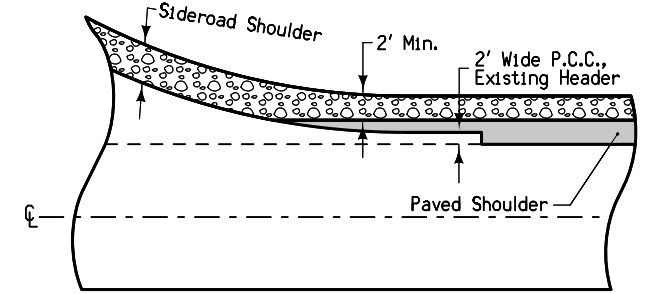
At UAC Turn Lanes

**PAVED SHOULDER
DETAIL AT
TURN LANES**

7154B
10-20-09



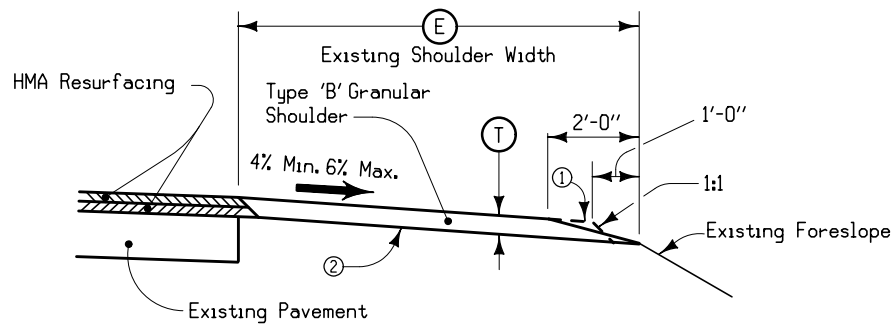
With Newly Constructed Returns



At UAC Returns

**PAVED SHOULDER
DETAIL AT RETURNS**

7135
Modified



- ① Place and compact material to the dashed lines; then blade and shape to foreslope that portion above the solid line in the outer 2' and roll with loaded truck tire.
- ② Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the resurfacing.
- ③ Nominal thickness adjusted to account for low shoulders & existing slopes greater than 4% (For quantity purposes) Existing Shoulders are measured 1" low.

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

LOCATION			SIDE	T Inches ^③	E Feet
ROAD IDENTIFICATION	STATION TO STATION				
US 63 SB	244+50 *	277+04.7 *	Lt	4.0	6.0
US 63 SB	38+60 *	59+00 *	Lt	4.0	6.0
US 63 SB	244+50 *	277+04.7 *	Rt	4.0	4.0
US 63 SB	38+60 *	59+00 *	Rt	4.0	4.0
* Stations shown are metric					

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1: IDOT
Division 2: Chickasaw County

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
1	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	35	89.5	124.5	Refer to Tabulation 100-25.
2	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	1,149		1,149	Refer to Typical 7135 and Tabulation 112-9.
3	2214-5145150	PAVEMENT SCARIFICATION	SY	719.6		719.6	Refer to Tabulation 102-16.
4	2303-0001000	HOT MIX ASPHALT MIXTURE, WEDGE, LEVELING OR STRENGTHENING COURSE	TON	80		80	Refer to Tabulation 106-2. If dip over culvert remains after CIR, leveling should be used to correct dip.
5	2303-1042500	HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	5,315	88.9	5,403.9	Refer to Tabulation 100-25. See Tabulation 100-25.
6	2303-1043503	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-3	TON	5,359.1	88.9	5,448	See Tabulation 100-25.
7	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC	TON	640.4	10.6	651	Refer to Tabulation 100-25. See Tabulation 100-25.
8	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1		1	
9	2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)	EACH	5,298		5,298	
10	2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)	EACH	5,298		5,298	
11	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	14,424		14,424	
12	2318-1001100	COLD IN-PLACE RECYCLED ASPHALT PAVEMENT	SY	59,509.5		59,509.5	Refer to Tabulation 100-25.
13	2318-1001220	ASPHALT STABILIZING AGENT (FOAMED ASPHALT)	TON	261.8		261.8	
14	2402-2720000	EXCAVATION, CLASS 20	CY	74		74	Refer to Tabulation 104-13.
15	2416-0101036	REMOVE AND REINSTALL CONCRETE PIPE APRONS LESS THAN OR EQUAL TO 36 IN.	EACH	1		1	Refer to Tabulation 104-3.
16	2416-1541036	REMOVE AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL TO 36 IN.	LF	12		12	Refer to Tabulation 104-13.
17	2507-3250005	ENGINEERING FABRIC	SY	48.9		48.9	Refer to Tabulation 100-23.
18	2507-6800061	REVTMENT, CLASS E	TON	32		32	Refer to Tabulation 100-23.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
19	2526-8285000	CONSTRUCTION SURVEY	LS	1		1	DOT will be responsible for preservation of section corners including Public Land Survey Corner Certificates and shall not be included in this bid item. All other construction survey requirements shall apply.
20	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	8,810.23		8,810.23	Refer to Tabulation 108-22.
21	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	2,214.08		2,214.08	
22	2528-8445110	TRAFFIC CONTROL	LS	1		1	Refer to Sheet J.1.
23	2533-4980005	MOBILIZATION	LS	1		1	-
24	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	347.42		347.42	See Tabulation 112-10.
25	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	376.6		376.6	
26	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	120		120	Refer to Tabulation 100-19.
27	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	120		120	Refer to Tabulation 100-19.

100-1U 10-18-05
PROJECT DESCRIPTION
Perform Cold-in-Place Recycling of existing pavement and HMA resurface. Install edge shoulder rumble strips.

100-1D 10-18-05
UTILITIES
<p>John Endelman Engineering Manger Butler County REC (Electric Distribution) 521 N Main St Allison, IA 50602 (319) 231-0082 JFE@BUTLERREC.COOP</p> <p>Brian Geschke General Manager New Hampton Municipal Light Plant (Electric Distribution) 921 N. Canty Ave. New hampton, IA 50659 (641) 394-2196 geschke@iowatelecom.net</p> <p>Anthony Rich Manager OSP Engineering Windstream Communications (Telephone, Fiber Transmission, & Distribution) 641 West Street South Grinnell, IA 50112 (402) 706-9950 Cell: (402) 706-9950 anthony.rich@windstream.com</p> <p>Bryan Bogan Analyst II Windstream Communications (Fiber Distribution & Transmission, Telephone, & Cable TV) 4001 N. Rodney Parham Rd Little Rock, AR 72212 (501) 748-6919 Bryan.Bogan@windstream.com</p> <p>Aaron Grodi Midwest CLEC Manager -OSP Eng. Windstream Communications (Telephone, Communication Tower, Fiber Transmission & Distribution) 1858 Wright St. Madison, WI 53704 (608) 819-5014 Cell: (919) 770-1778 aaron.grodi@windstream.com</p> <p>Brad Schmitt Outside Plant Manager Butler-Bremer Communications (Fiber Distribution) 715 Main Street Plainfield, IA 50666 (319) 276-4458 Cell: (319) 961-1555 brad@butler-bremer.biz</p>

105-4 10-18-11		
STANDARD ROAD PLANS		
The following Standard Road Plans apply to construction work on this project.		
Number	Date	Title
DR-101	04-18-17	Pipe Culvert (Bedding and Backfill)
DR-103	04-21-15	Pipe Culvert (Installation Details)
DR-121	10-17-17	Connected Pipe Joints
EC-204	10-19-21	Perimeter, Slope and Ditch Check Sediment Control Devices
EC-301	10-18-16	Rock Erosion Control (REC)
PM-110	04-21-20	Line Types
PM-560	10-15-19	Divided Multi-Lane Roadway with no Turn Lanes
PM-562	10-15-19	Divided Multi-Lane Roadway with Left Turn Lanes
PM-760	10-15-19	Divided Multi-Lane Roadway Median
PR-202	10-21-14	Notches for Resurfacing (with or without Runout)
PV-12	10-20-20	Milled Shoulder Rumble Strips
PV-202	04-21-20	Hot Mix Asphalt Resurfacing
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-402	10-19-21	Work Within 15 ft of Traveled Way
TC-418	04-21-20	Lane Closure on Divided Highway
TC-482	10-15-19	Uneven Lanes

111-25 10-18-11		
INDEX OF TABULATIONS		
Tabulation	Tabulation Title	Sheet No.
C Sheets		
100-1D	PROJECT DESCRIPTION	C.3
100-1U	UTILITIES	C.3
100-19	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES	C.4
100-23	ROCK EROSION CONTROL	C.4
100-25	HMA PAVEMENT	C.5
102-5	EXISTING PAVEMENT	C.4
102-16	NOTCHES AND RUNOUTS FOR RESURFACING	C.7
104-13	FORESLOPE FLATTENING AND DRAINAGE STRUCTURES BY ROAD CONTRACTOR (MAINLINE PIPES)	C.4
105-4	STANDARD ROAD PLANS	C.3
106-2	LEVELING COURSES	C.7
108-22	PAVEMENT MARKING LINE TYPES	C.7
111-25	INDEX OF TABULATIONS	C.3
112-9	SHOULDERS	C.6
112-10	MILLED RUMBLE STRIPS	C.6

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.

232-3A 10-19-21
EROSION CONTROL (RURAL SEEDING)
<p>Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.</p> <p>Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area lying 8 feet adjacent to shoulder and median as follows:</p> <p>Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.</p> <p>Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.</p> <p>Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.</p>

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	Type	Depth	Source			Type	Durability Class	Type
	hickasaw	63	SB	192.61	195.1	1928		FA-35	PC7	7							MASON CITY	GRAVEL	2					
						1953		P-1037	BAC	1.35	TRB	1.5					ELDORADO/JACOB.	C.LST.						
						1961		FN-35A	AAC	3							TRACY	C.LST.						
						1983		F-63-7(20)--20-09	RAC	3							HUNT	C.LST.						
	hickasaw	63	SB	195.1	196.26	1928		FA-35	PC7	7							MASON CITY	GRAVEL	2					
						1953		P-1037	BAC	1.35	TRB	1.5					ELDORADO/JACOB.	C.LST.						
						1961		FN-35A	AAC	3							TRACY	C.LST.						
						1983		F-63-7(20)--20-09	RAC	3							HUNT	C.LST.						
						2019		MP-063-2(702)195--76-19	HMA	2				SCR	2									

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.	Flow Line Elevations		Dimensions				Removal and Reinstallation of Culvert Aprons and Pipes				New Apron No.		Apron Guard* (DR-213)	Type 'C' Connections* (DR-122)	Connected Pipe Joint* (DR-121)	Embank.- In-Place	Class 20	Remarks		
Location	Size and Type of Culvert	Size	Type of Culvert		LEFT	RIGHT	Total (LF)		Extensions (LF)		Aprons		Culvert Sections		IN	OUT								
							LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	NO.*	FT									NO.*	FT
251+76.7	Lt.	36"	RCP											1		2	12					Type 3	74.0	

ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

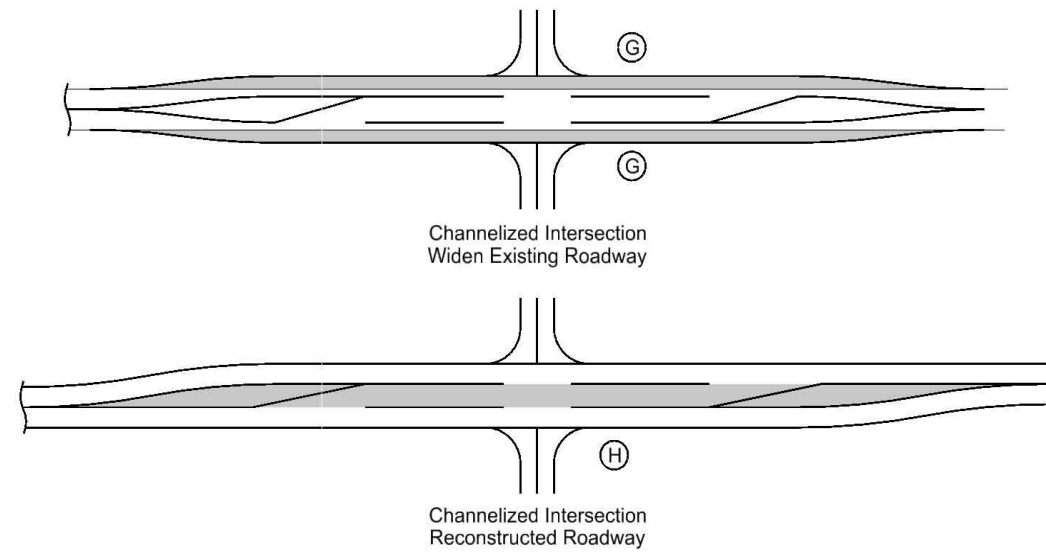
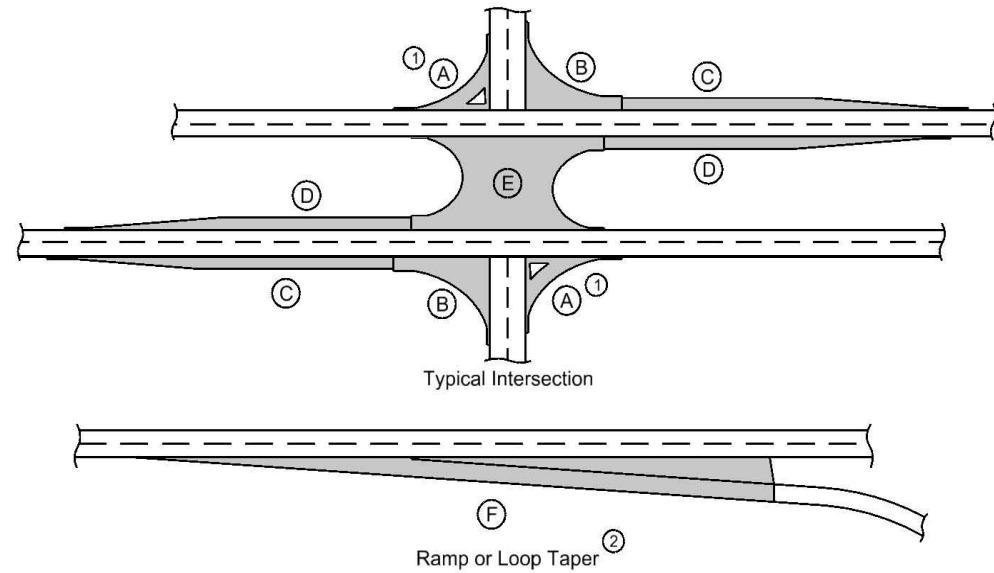
Location				L	W	Rock Erosion Control (REC)					Material Bid Quantities			Remarks	
Road Identification	Begin Station	End Station	Side			Type 1	Type 2	Type 3	Type 4	Type 5	Eng. Fabric	Class E Revetment	Erosion Stone		
															Rock Ditch Check
US 63	251+76.70		lt	15	20				x			48.9	32.0		36" RCP outlet

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	
251+56.7	251+96.7	lt		120				See U.2

HMA PAVEMENT



- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
- ② Refer to PV-410, PV-411, PV-412, and PV-414.
- ③ Quantity includes Pavement Header.

Calculations assume a surface course unit weight (lbs/cf) of 147, an intermediate course unit weight (lbs/cf) of 147, a base course unit weight (lbs/cf) of 0, and a special backfill unit weight (lbs/cf) of 140.

Road Identification	Direction of Travel	Location		Mainline			Area ③							Hot Mix Asphalt Pavement										Remarks											
		Station to Station	Width	Length	Area	A ①	B	C	D	E	F ②	G	H	Surface			Intermediate			Cold In Place			Binder			Special Backfill	Class 13	Granular Subbase	Pavement Scarification						
														TONS	SY	TONS	SY	TONS	SY	TONS	TONS	TONS	TONS		TONS					TONS	TONS	TONS	TONS	TONS	TONS
US 63	SB	244+50.00	244+95.70	32.0	150.0	533.3								44.1	533.3	22.1	533.3			0.0	2.6	1.3	0.0									A			
	SB	244+95.70	255+96.80	32.0	3612.5	12844.5								1062.1	12844.5	1062.1	12844.5			12844.5	63.7	63.7	56.5												
	SB	256+69.24	257+50.20	28.0	265.6	826.4								68.3	826.4	68.3	826.4			826.4	4.1	4.1	3.6												
	SB	257+50.20	272+18.70	32.0	4817.9	17130.3								1416.5	17130.3	1416.5	17130.3			17130.3	85.0	85.0	75.4												
	SB	272+18.70	273+72.90	28.0	505.9	1573.9								130.1	1573.9	130.1	1573.9			1573.9	7.8	7.8	6.9												
	SB	273+72.90	277+04.70	32.0	1088.6	3870.5								320.0	3870.5	320.0	3870.5			3870.5	19.2	19.2	17.0												
	SB	38+60.00	58+54.30	32.0	6543.0	23263.9								1923.6	23263.9	1923.6	23263.9			23263.9	115.4	115.4	102.4												
	SB	58+54.30	59+00.00	32.0	150.0	533.3								44.1	533.3	22.1	533.3			0.0	2.6	1.3	0.0										A		
US 63	SB	255+96.80	256+69.24	varies						419.3				34.7	419.3	34.7	419.3				2.1	2.1											A,B		
turn lanes and median cross-overs	SB	256+69.24	257+50.00	varies			264.3							21.9	264.3	21.9	264.3				1.3	1.3											A		
	SB	255+96.80	256+69.24	varies						419.3				34.7	419.3	34.7	419.3				2.1	2.1												A,B	
	SB	272+91.90	273+72.90	varies			264.3							21.9	264.3	21.9	264.3				1.3	1.3											A		
	SB	272+18.70	272+91.90	varies						474.2				39.2	474.2	39.2	474.2				2.4	2.4												A,B	
	SB	38+60.00	41+86.00	varies						1720.0				142.2	1720.0	142.2	1720.0				8.5	8.5												A,B	
	SB	49+85.00	52+19.00	varies						256.0				21.2	256.0	21.2	256.0				1.3	1.3												A,B	
sideroad paving	SB	256+02.00	256+91.00	varies	6.0	67.0								11.1	67.0	11.1	67.0				0.7	0.7												A,C	
300TH St.	SB	272+24.00	273+14.00	varies	6.0	70.6								11.7	70.6	11.7	70.6				0.7	0.7												A,C	
290TH St.	SB	50+39.50	50+74.50	varies	6.0	71.4								11.8	71.4	11.8	71.4				0.7	0.7													A,C
Div. 1 totals														5359.1		5315.0				59509.5	321.5	318.9	261.8												
sideroad paving	SB	256+34.00	256+59.00	varies	40.0	159.8								26.4	159.8	26.4	159.8				1.6	1.6													A,C
300TH St.	SB	272+56.00	272+82.00	varies	40.0	200.0								33.1	200.0	33.1	200.0				2.0	2.0													A,C
290TH St.	SB	50+46.00	50+60.00	varies	40.0	177.7								29.4	177.7	29.4	177.7				1.8	1.8													A,C
Div. 2 totals														88.9		88.9				5.3	5.3														

e Tab. 102-16
B = Median Crossover
C = See 112-9 & 7149

**STA. 244+50
BEGIN PROJECT**
Southbound lanes
R.P. 193.0

**RICHLAND TWP.
T-94N R-13W
SEC. 36**

P.D.A. LOCATIONS
Lt. & Rt. Sta. 244+89
Lt. & Rt. Sta. 248+36± PL

Curve Data
Δ = 0° 31' 45.17" (LT)
T = 23.091 m
L = 46.183 m
e = 0.053 m
e = 5,000,000 m
= N.C.

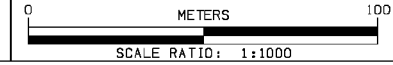
Sta 246+20.6 (21.0 LT)
610 X 24.23 Conc Pipe
DA=4.1 Ha. R
Sta. 246+20.600
Extend Lt. 8.69m
and Rt. 26.06m
With 0.6 x 34.75 RF-1
F.L. = Lt. 314.740
Rt. 315.250

246+20.00 Prop.
Type "M" Med. Dike
Elev. = 315.80

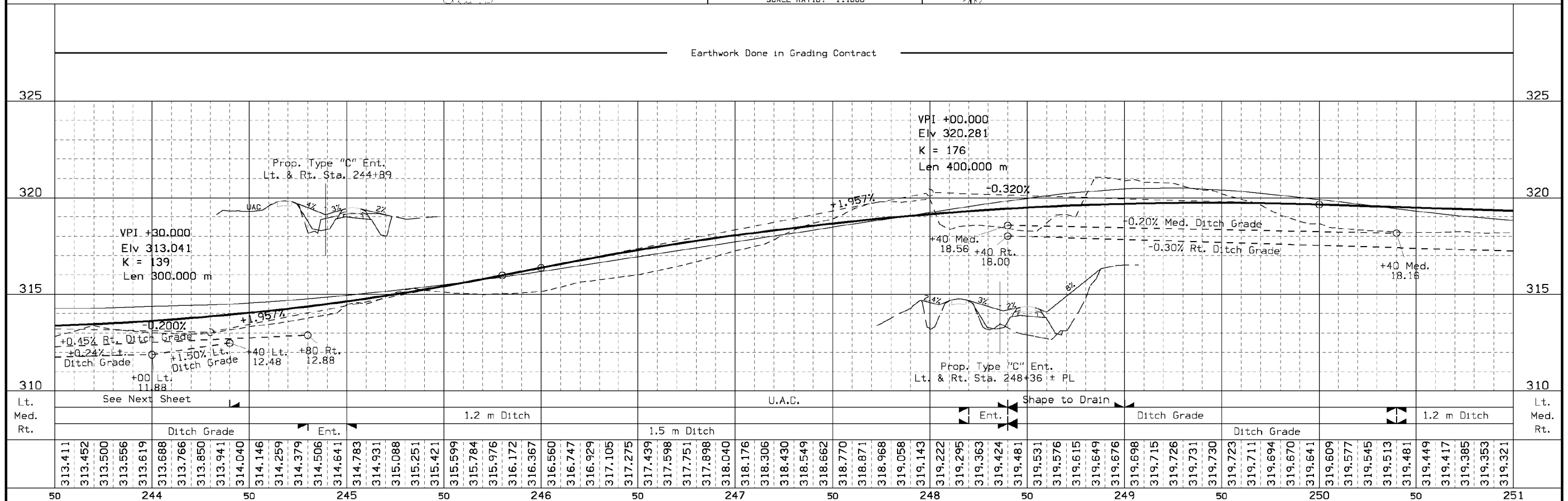
246+13.00 Prop.
Type "M" Rt. Dike
Elev. = 315.80

Sta. 246+24.700, 14m Rt.
Install 600mm x 20.73m RF-1
Lt. 315.430
Rt. 315.330

**DRESDEN TWP.
T-94N R-12W
SEC. 31**



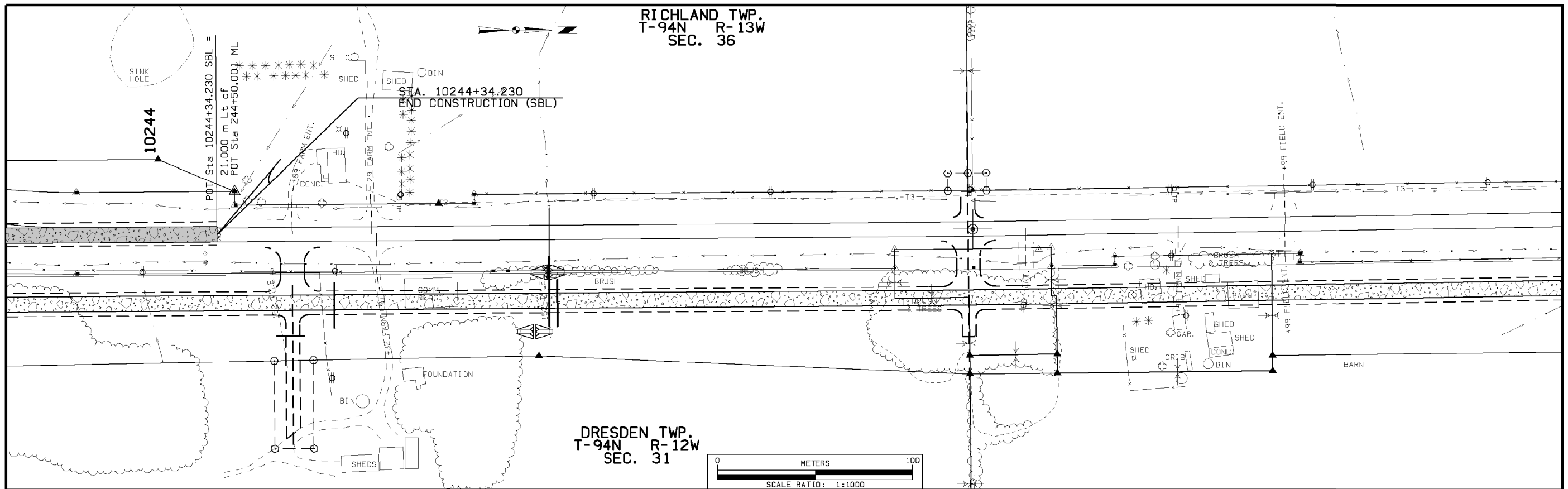
Earthwork Done in Grading Contract



DESIGN TEAM **Abrams/Flattery/Brown** METRIC IOWA DOT * OFFICE OF DESIGN **BREMER/CHICKASAW** COUNTY PROJECT NUMBER **NHSX-063-7(62)--3H-09** SHEET NUMBER **D.19**

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AS-BUILT PLANS, FOR INFORMATION ONLY

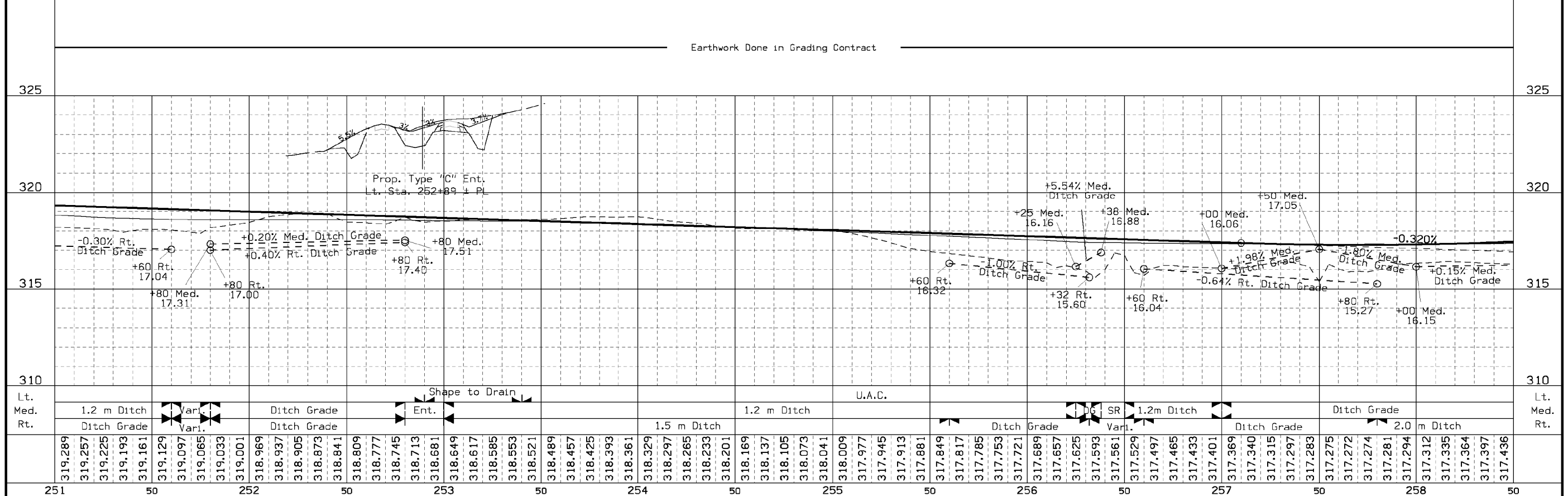
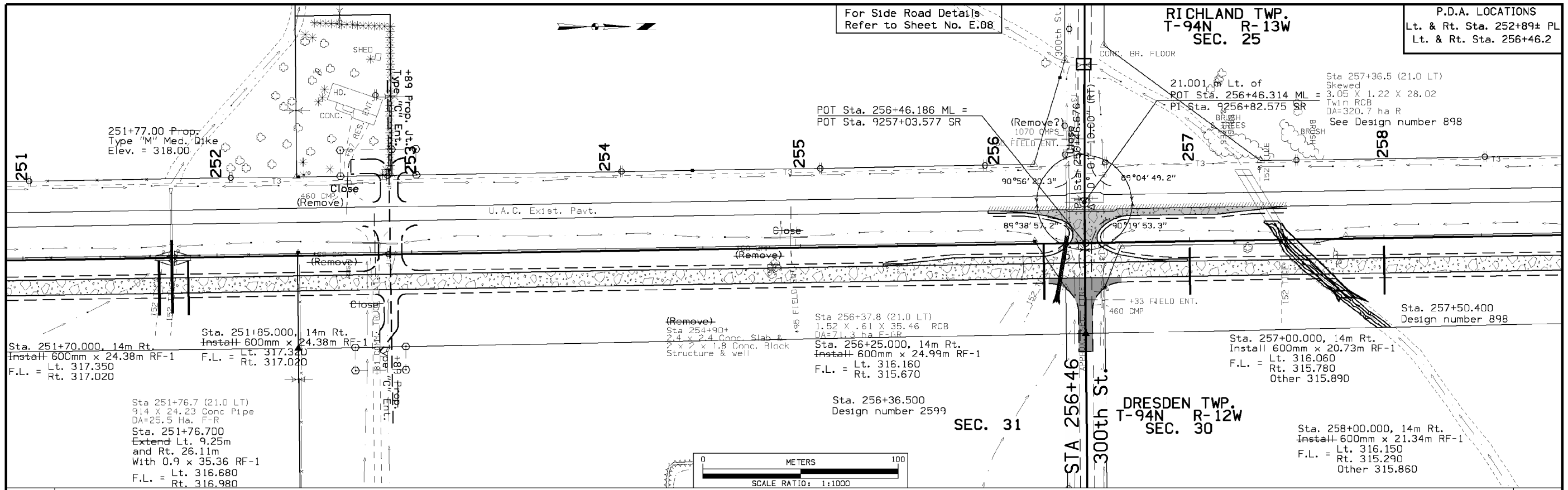


SOUTHBOUND LANES									
320	See T Sheets →								320
315									315
310									310
305									305
Lt.	Ditch Grade →								Lt.
Med.	See Previous Sheet								Med.
Rt.	See Previous Sheet								Rt.
50	314.254	314.294	314.334	314.374	314.414	314.454	314.494	314.534	
	10244								

DESIGN TEAM **Abrams/Flattery/Brown** METRIC IOWA DOT * OFFICE OF DESIGN **BREMER/CHICKASAW** COUNTY PROJECT NUMBER **NHSX-063-7(62)--3H-09** SHEET NUMBER **D.20**

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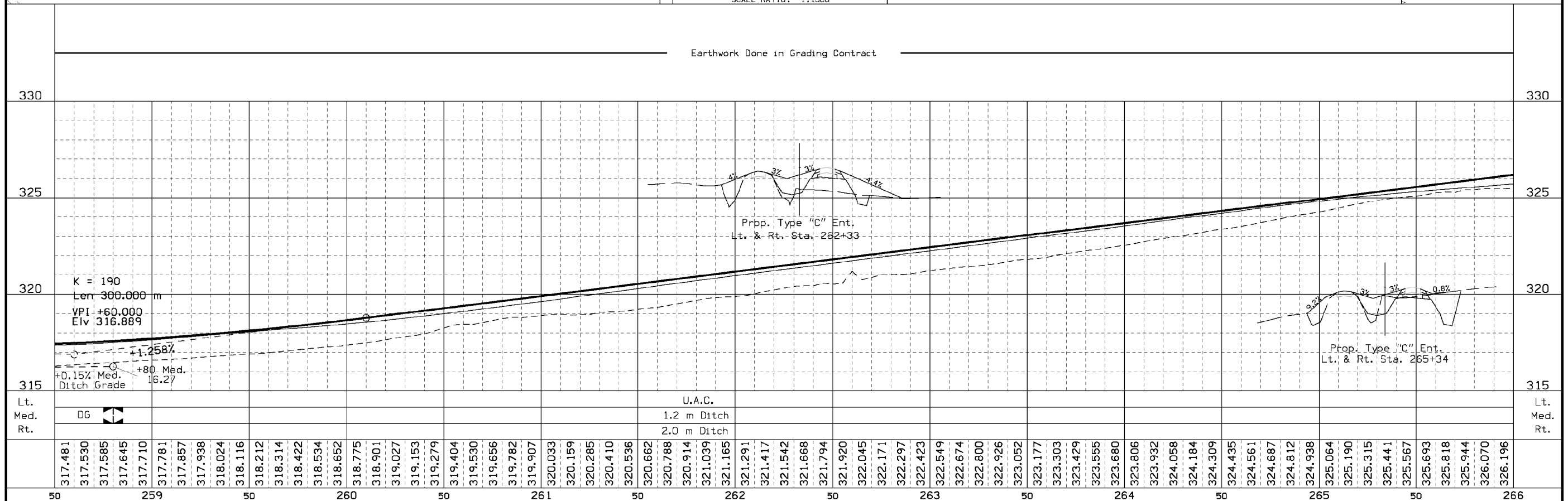
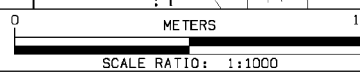
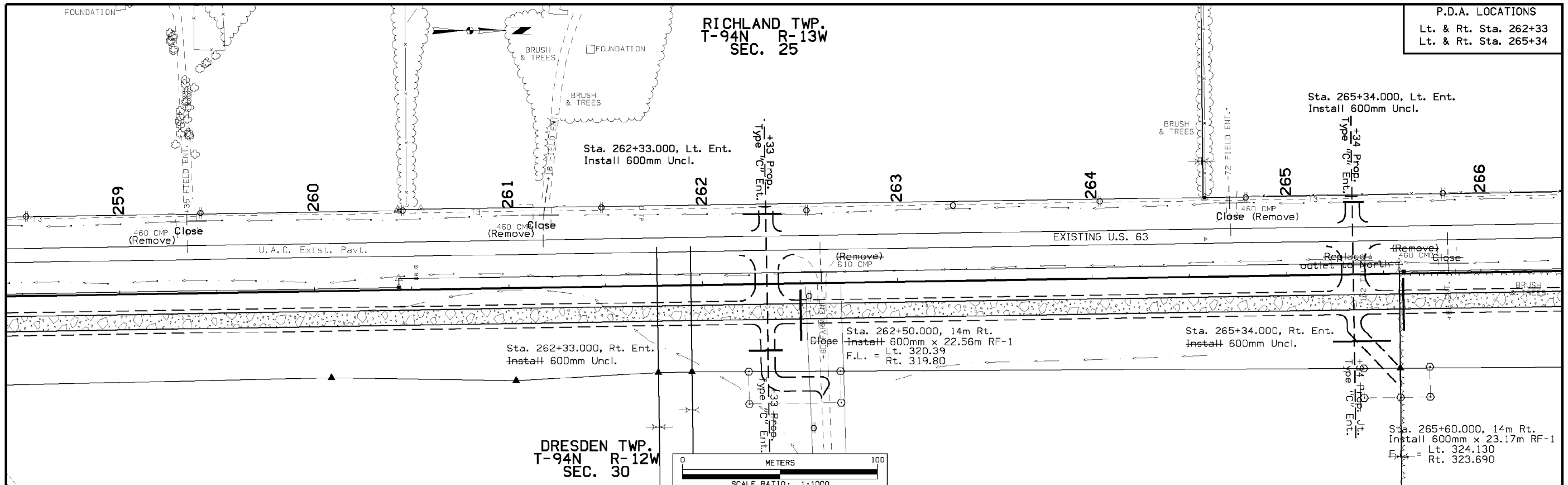


DESIGN TEAM	Abrams/Flattery/Brown	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER/CHICKASAW	COUNTY	PROJECT NUMBER	NHSX-063-7(62)--3H-09	SHEET NUMBER	D.21
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AS-BUILT PLANS, FOR INFORMATION ONLY

FILE NO.	ENGLISH	DESIGN TEAM	Kelly\Nie	CHICKASAW COUNTY	PROJECT NUMBER	NHSX-063-8(71)--3H-19	SHEET NUMBER	D.3
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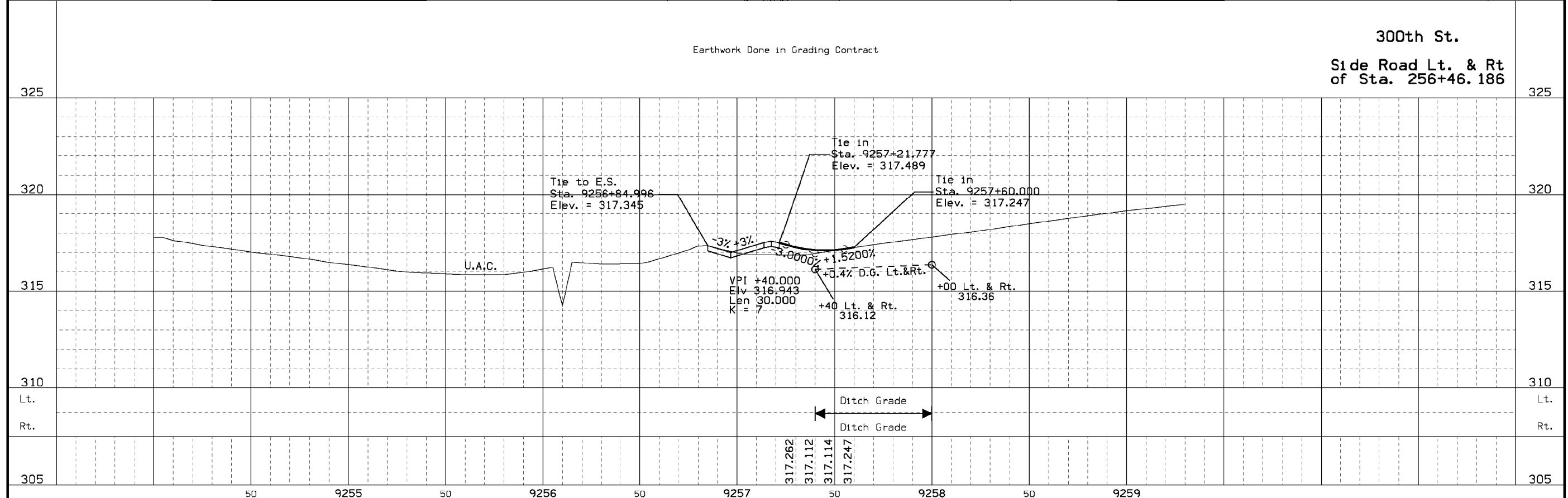
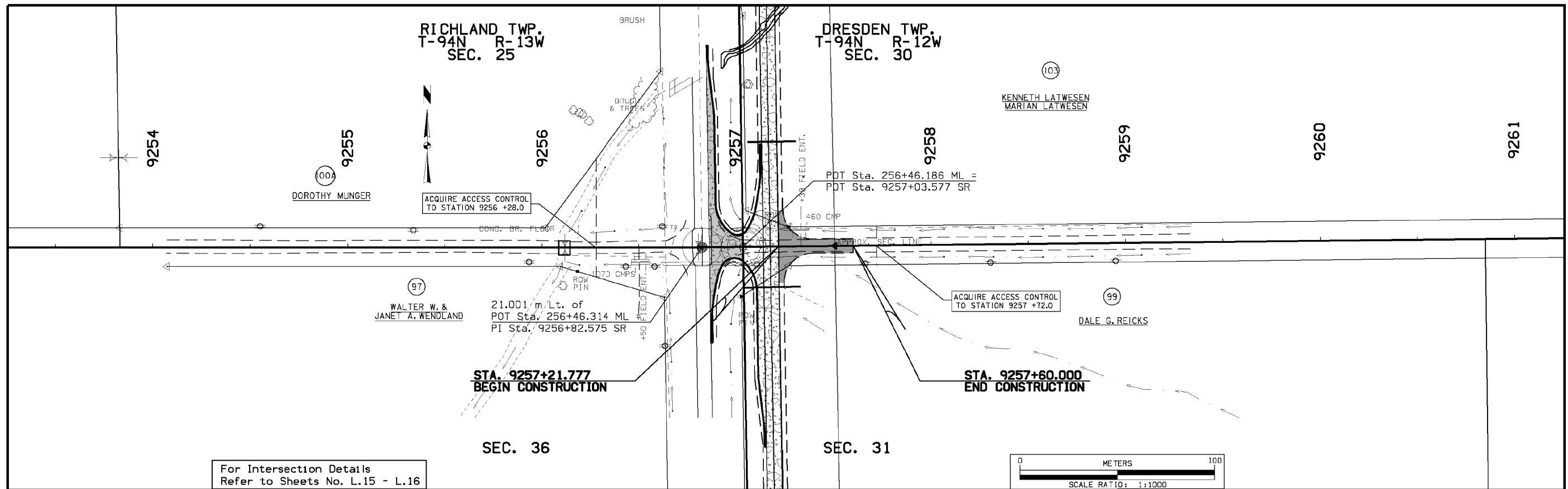
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DESIGN TEAM **Abrams/Flattery/Brown** METRIC IOWA DOT * OFFICE OF DESIGN **BREMER/CHICKASAW** COUNTY PROJECT NUMBER **NHSX-063-7(62)--3H-09** SHEET NUMBER **D.22**

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AS-BUILT PLANS, FOR INFORMATION ONLY

FILE NO.	ENGLISH	DESIGN TEAM Kelly\Nie	CHICKASAW COUNTY	PROJECT NUMBER NHSX-063-8(71)--3H-19	SHEET NUMBER D.4
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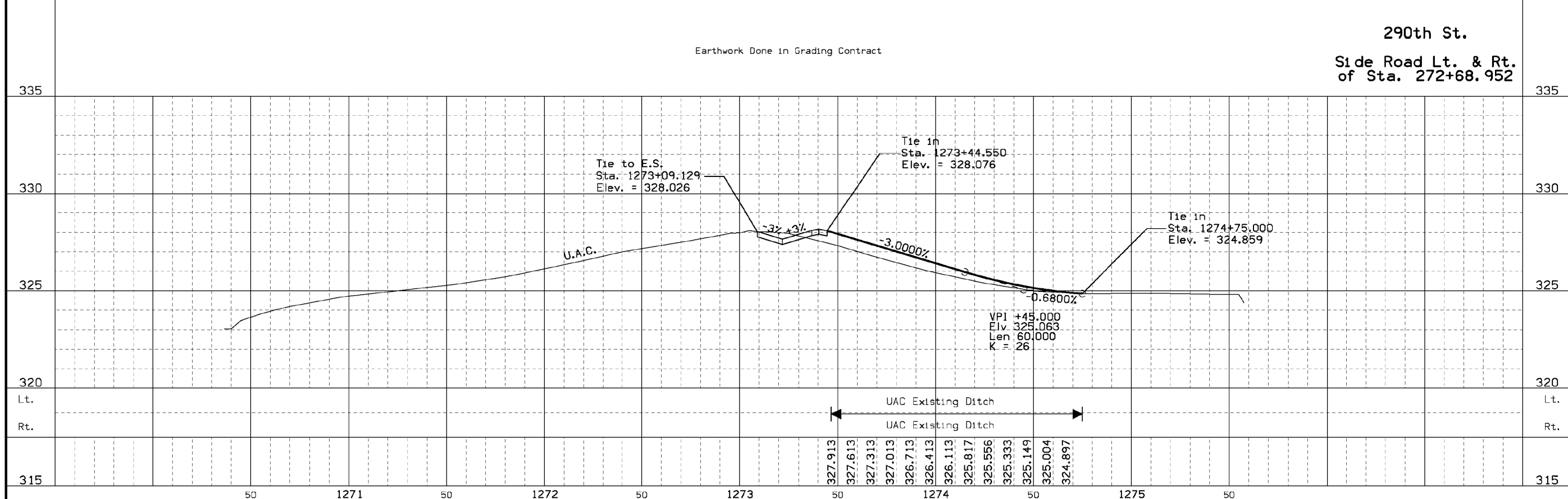
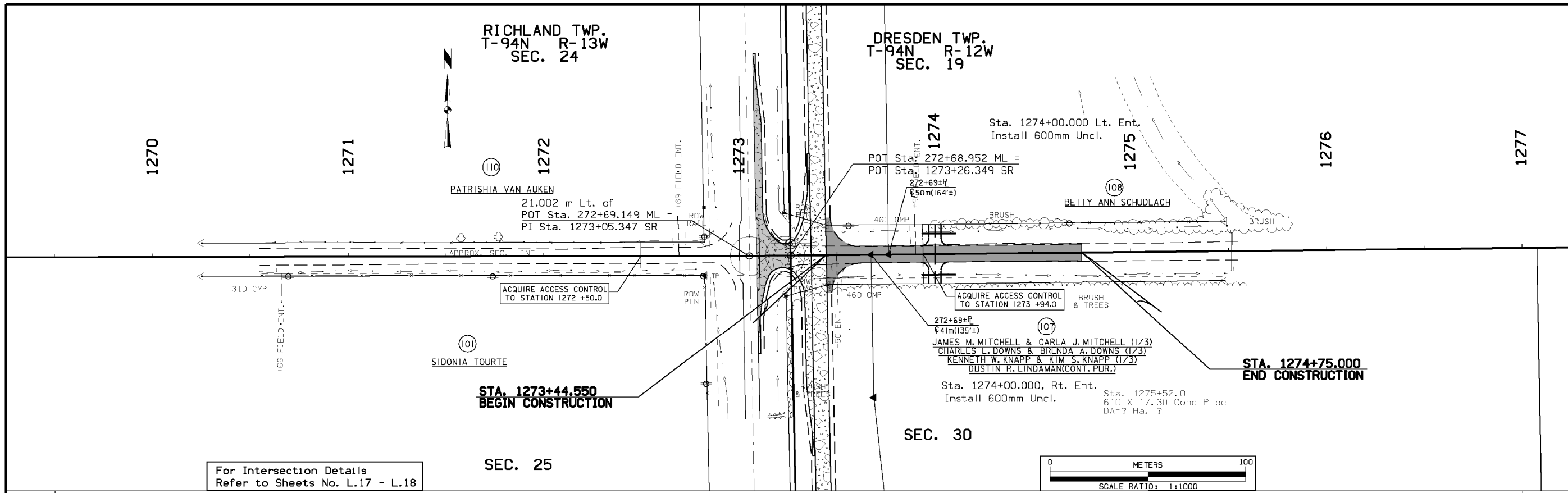
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AS-BUILT PLANS, FOR INFORMATION ONLY

FILE NO.	ENGLISH	DESIGN TEAM	Kelly\Nie	CHICKASAW	COUNTY	PROJECT NUMBER	NHSX-063-8(71)--3H-19	SHEET NUMBER	D.7
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DESIGN TEAM	Abrams/Flattery/Brown	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER/CHICKASAW	COUNTY	PROJECT NUMBER	NHSX-063-7(62)--3H-09	SHEET NUMBER	E.09
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AS-BUILT PLANS, FOR INFORMATION ONLY

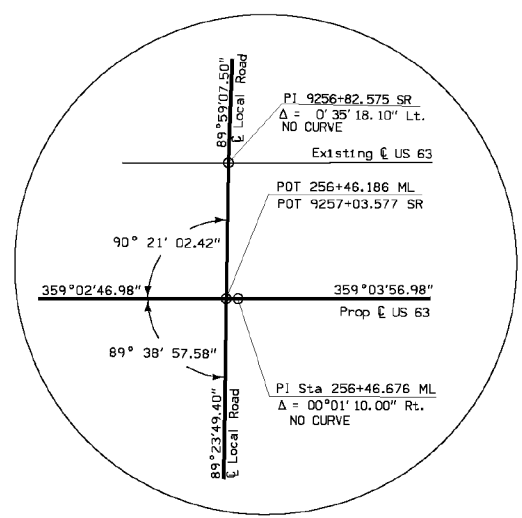
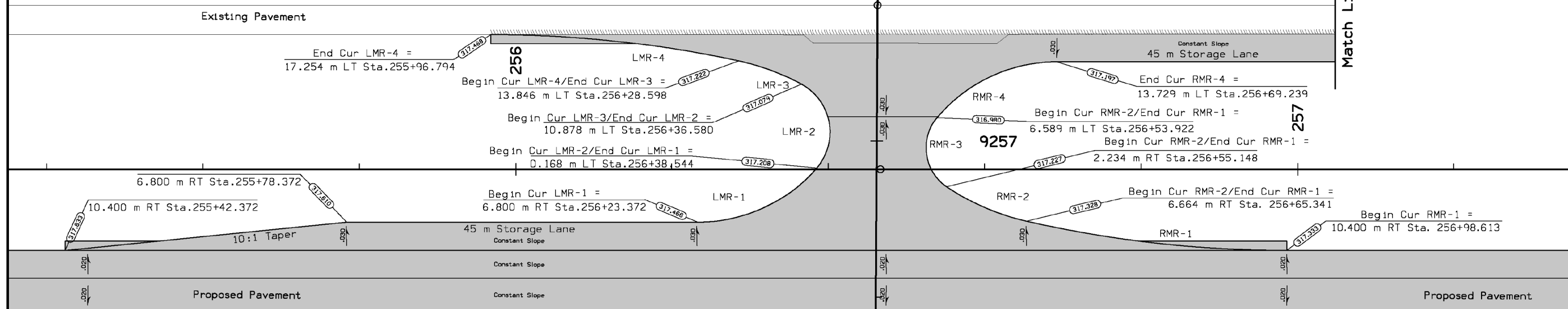
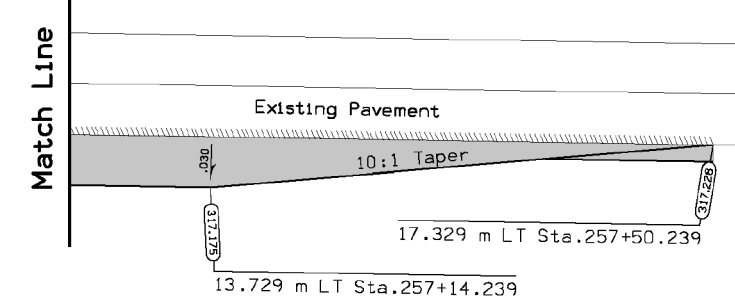
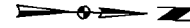
CIRCULAR CURVE DATA

101-10C
09-27-94

NO.	Δ	R	T	L	E
LMR-1	49° 20' 16.343" LT	20.000	9.186	17.222	2.009
LMR-2	102° 06' 22.918" LT	7.000	8.661	12.475	4.136
LMR-3	16° 19' 07.075" LT	30.000	4.301	8.544	0.307
LMR-4	12° 14' 27.985" LT	150.000	16.085	32.047	0.860
RMR-1	12° 48' 55.714" RT	150.000	16.846	33.551	0.943
RMR-2	21° 21' 02.596" RT	30.000	5.655	11.179	0.528
RMR-3	95° 51' 01.465" RT	6.000	6.646	10.037	2.954
RMR-4	49° 59' 00.236" RT	20.000	9.323	17.447	2.066

RICHLAND TWP.
T-94N R-13W
SEC. 36

RICHLAND TWP.
T-94N R-13W
SEC. 25



DRESDEN TWP.
T-94N R-12W
SEC. 31

DRESDEN TWP.
T-94N R-12W
SEC. 30

NOTES:
A) Refer to Tab 100-24 for pavement quantities.
B) Island dimensions are to the radius point of the island.
C) For construction details of island, refer to Typical 6144, 6132 & 6117.

GEOMETRIC LAYOUT
Intersection of US 63
with 300th Street
at Sta 256+46.676



DESIGN TEAM Abrams/Flattery/Brown	METRIC	IOWA DOT * OFFICE OF DESIGN	BREMER/CHICKASAW COUNTY	PROJECT NUMBER NHSX-063-7(62)--3H-09	SHEET NUMBER L.19
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AS-BUILT PLANS, FOR INFORMATION ONLY

FILE NO.	ENGLISH	DESIGN TEAM Kelly\Nie	CHICKASAW COUNTY	PROJECT NUMBER NHSX-063-8(71)--3H-19	SHEET NUMBER D.9
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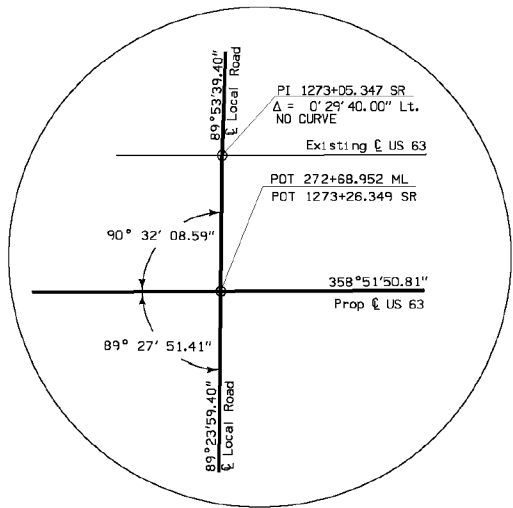
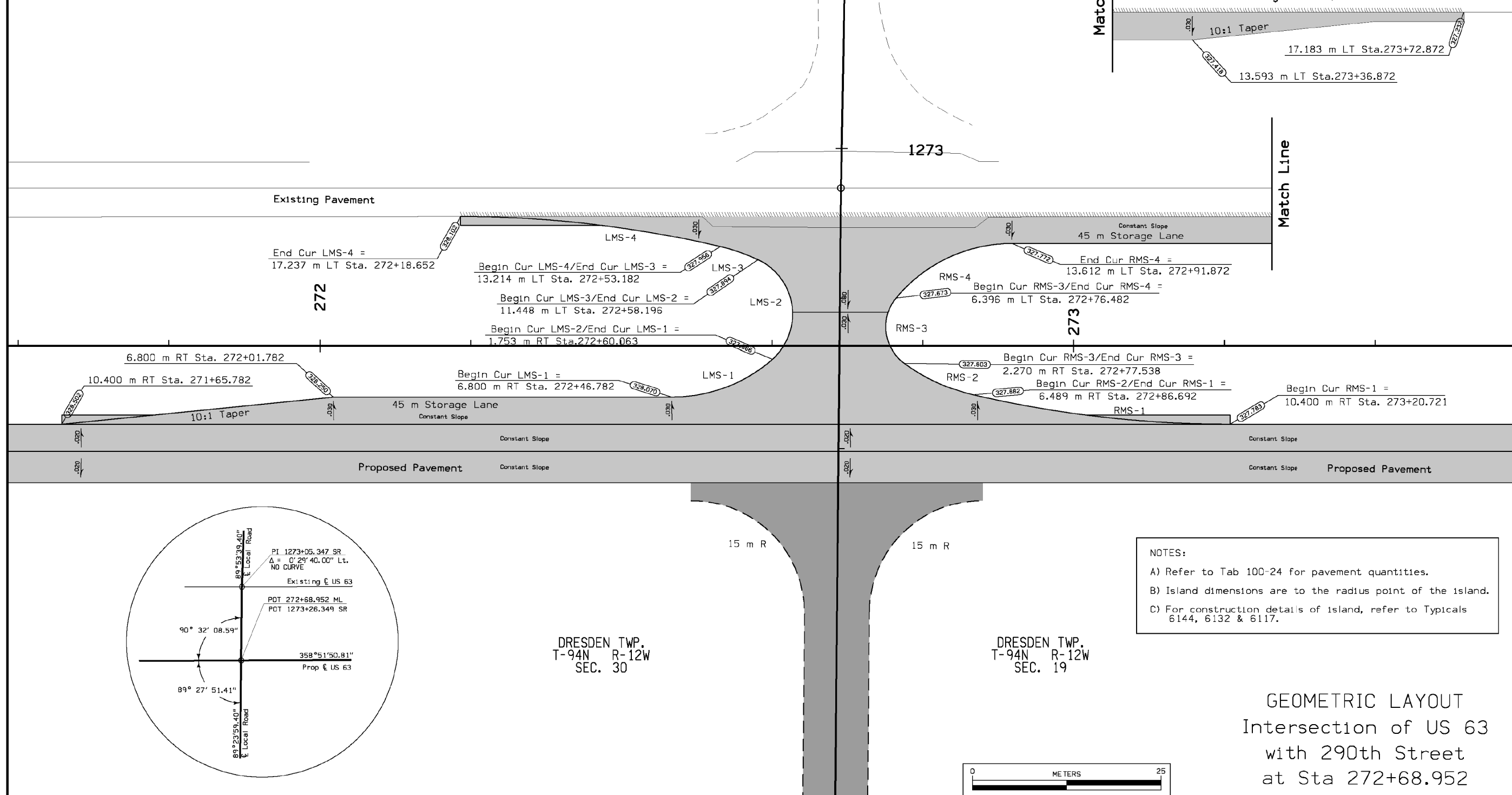
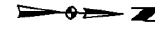
CIRCULAR CURVE DATA

101-10C
09-27-94

NO.	Δ	R	T	L	E
LMS-1	41° 36' 39.684" LT	20.000	7.599	14.525	1.395
LMS-2	112° 53' 05.118" LT	8.000	12.060	15.762	6.472
LMS-3	12° 12' 17.608" LT	25.000	2.673	5.325	0.142
LMS-4	13° 18' 31.467" LT	150.000	17.500	34.842	1.017
RMS-1	13° 06' 44.069" RT	150.000	17.239	34.328	0.987
RMS-2	23° 15' 38.111" RT	25.000	5.146	10.149	0.524
RMS-3	93° 21' 27.940" RT	6.000	6.362	9.776	2.745
RMS-4	93° 21' 27.940" RT	6.000	6.362	9.776	2.745

RICHLAND TWP.
T-94N R-13W
SEC. 25

RICHLAND TWP.
T-94N R-13W
SEC. 24



DRESDEN TWP.
T-94N R-12W
SEC. 30

DRESDEN TWP.
T-94N R-12W
SEC. 19

NOTES:
A) Refer to Tab 100-24 for pavement quantities.
B) Island dimensions are to the radius point of the island.
C) For construction details of island, refer to Typical 6144, 6132 & 6117.

GEOMETRIC LAYOUT
Intersection of US 63
with 290th Street
at Sta 272+68.952



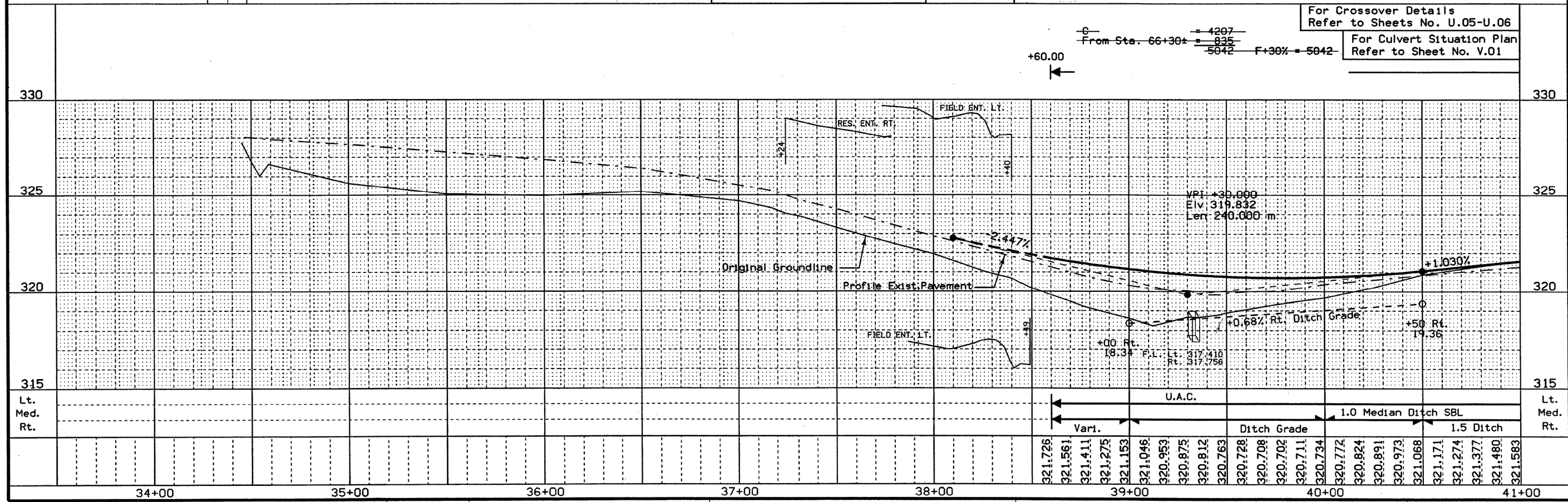
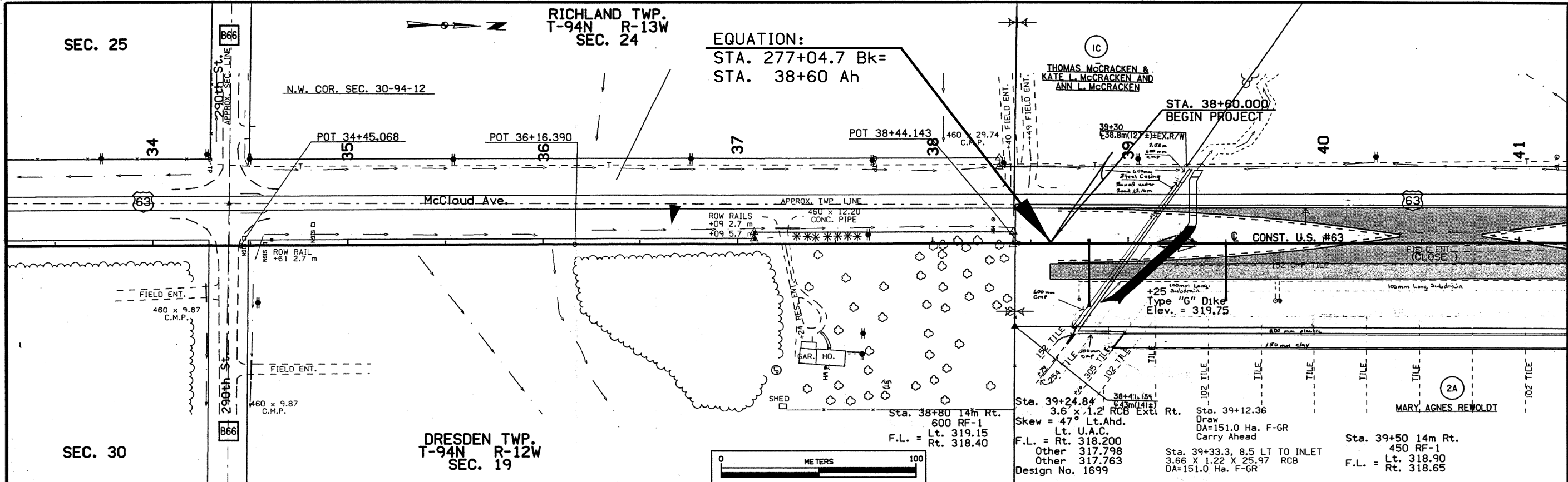
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FILE NO.	ENGLISH	DESIGN TEAM Kelly\Nie	CHICKASAW COUNTY	PROJECT NUMBER NHSX-063-8(71)--3H-19	SHEET NUMBER D.10
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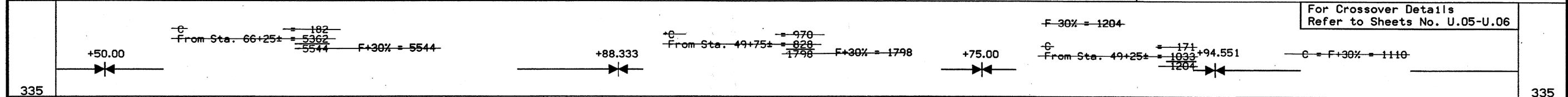
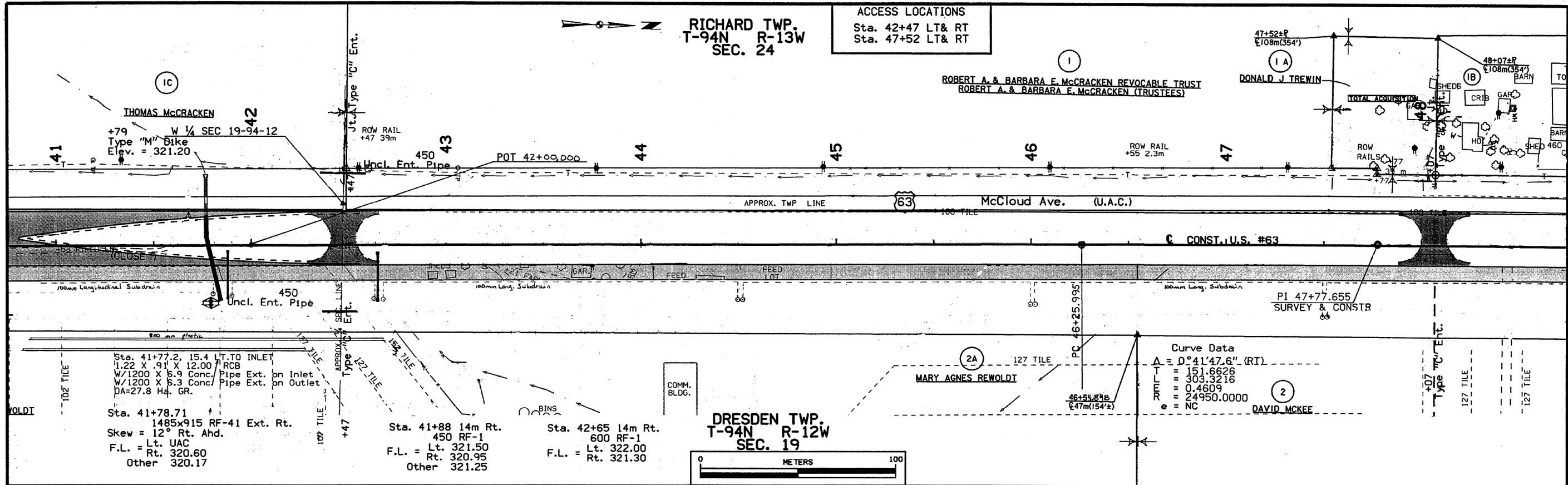
AS-BUILT PLANS, FOR INFORMATION ONLY



1000 DESIGN TEAM CADWELL/WULF/CAMERON METRIC IOWA DOT * OFFICE OF DESIGN CHICKASAW COUNTY PROJECT NUMBER NHSX-63-8(17)--3H-19 SHEET NUMBER D.01

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AS-BUILT PLANS, FOR INFORMATION ONLY



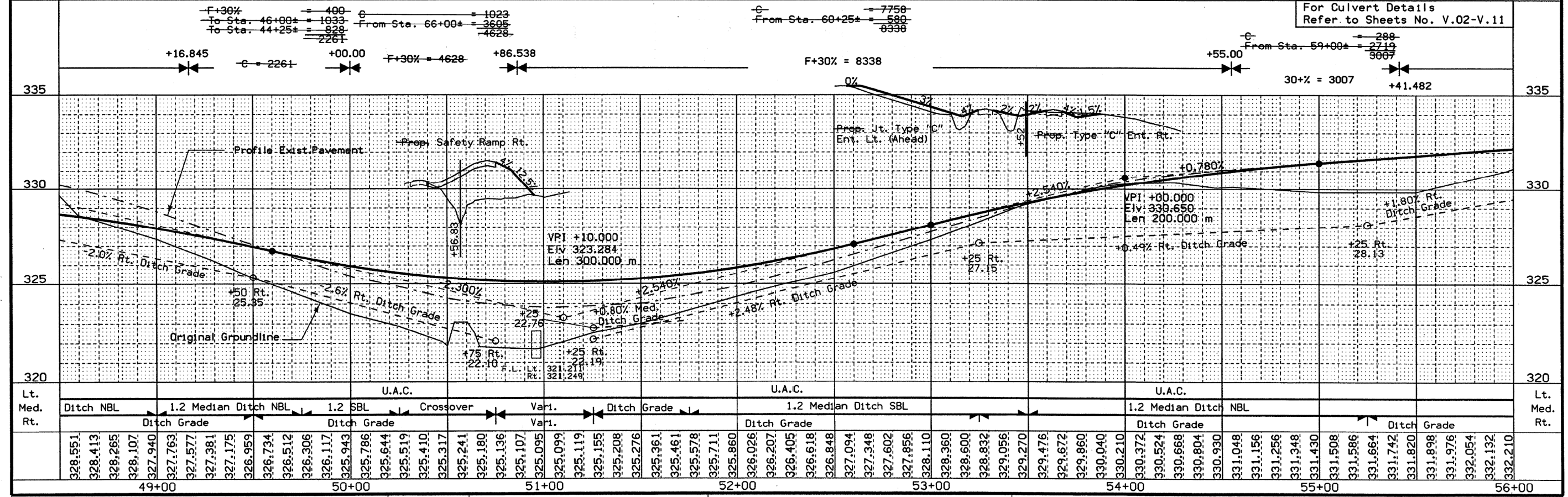
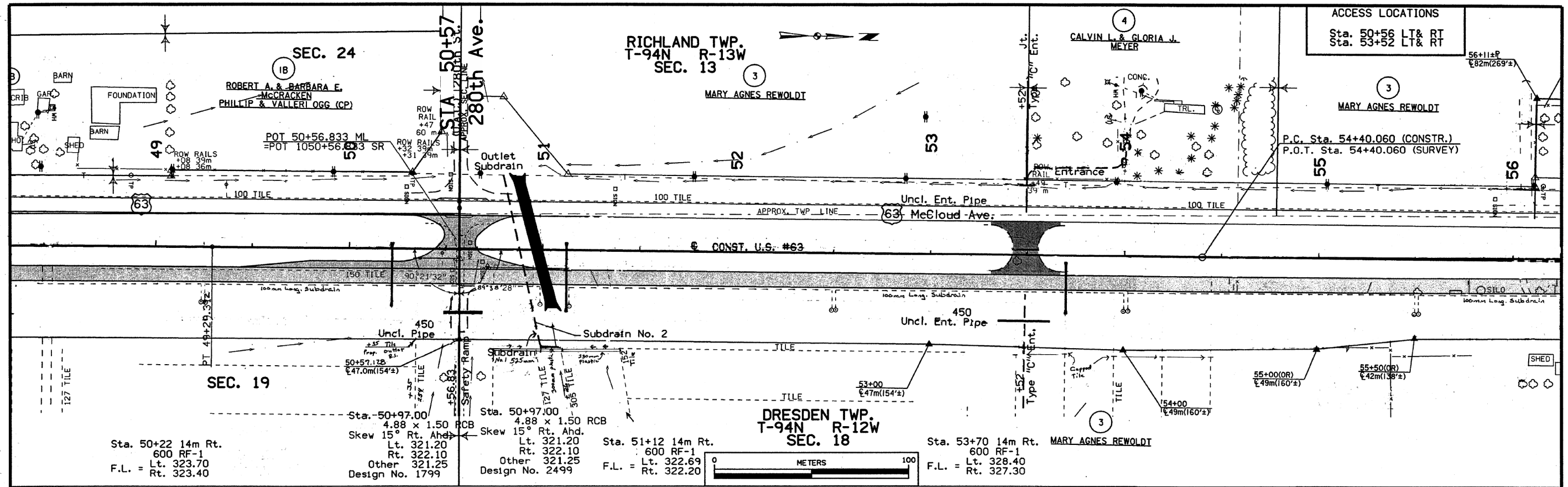
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41+00	321.686							
42+00	321.790							
43+00	321.893							
44+00	321.996							
45+00	322.099							
46+00	322.202							
47+00	322.305							
48+00	322.408							
49+00	322.511							
50+00	322.614							
51+00	322.717							
52+00	322.820							
53+00	322.923							
54+00	323.026							
55+00	323.129							
56+00	323.236							
57+00	323.350							
58+00	323.471							
59+00	323.599							
60+00	323.735							
61+00	323.878							
62+00	324.029							
63+00	324.187							
64+00	324.352							
65+00	324.524							
66+00	324.700							
67+00	324.876							
68+00	325.052							
69+00	325.228							
70+00	325.404							
71+00	325.580							
72+00	325.756							
73+00	325.932							
74+00	326.108							
75+00	326.284							
76+00	326.460							
77+00	326.636							
78+00	326.812							
79+00	326.988							
80+00	327.164							
81+00	327.340							
82+00	327.516							
83+00	327.692							
84+00	327.868							
85+00	328.039							
86+00	328.201							
87+00	328.353							
88+00	328.495							
89+00	328.627							
90+00	328.750							
91+00	328.863							
92+00	328.967							
93+00	329.061							
94+00	329.145							
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96+00	329.284							
97+00	329.339							
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99+00	329.421							
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112+00	329.007							
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114+00	328.798							
115+00	328.679							

1000 DESIGN TEAM CADWELL/WULF/CAMERON METRIC IOWA DOT * OFFICE OF DESIGN CHICKASAW COUNTY PROJECT NUMBER NHSX-63-8(17)--3H-19 SHEET NUMBER D.02

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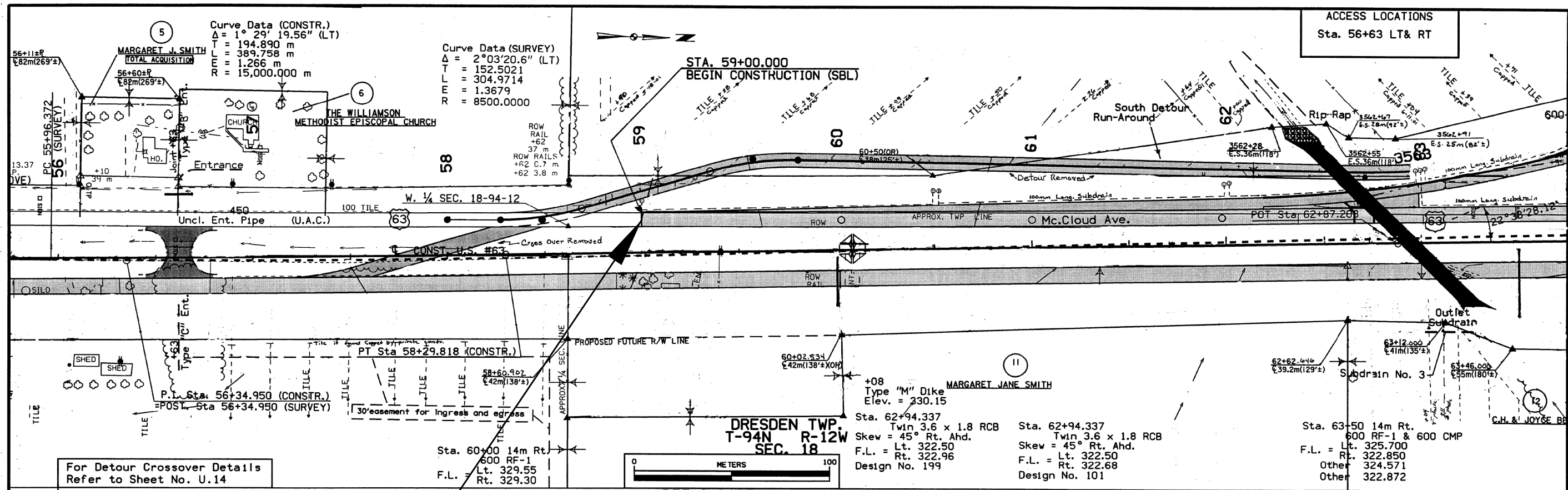
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1000	DESIGN TEAM	CADWELL/WULF/CAMERON	METRIC	IOWA DOT * OFFICE OF DESIGN	CHICKASAW	COUNTY	PROJECT NUMBER	NHSX-63-8(17)--3H-19	SHEET NUMBER	D.03
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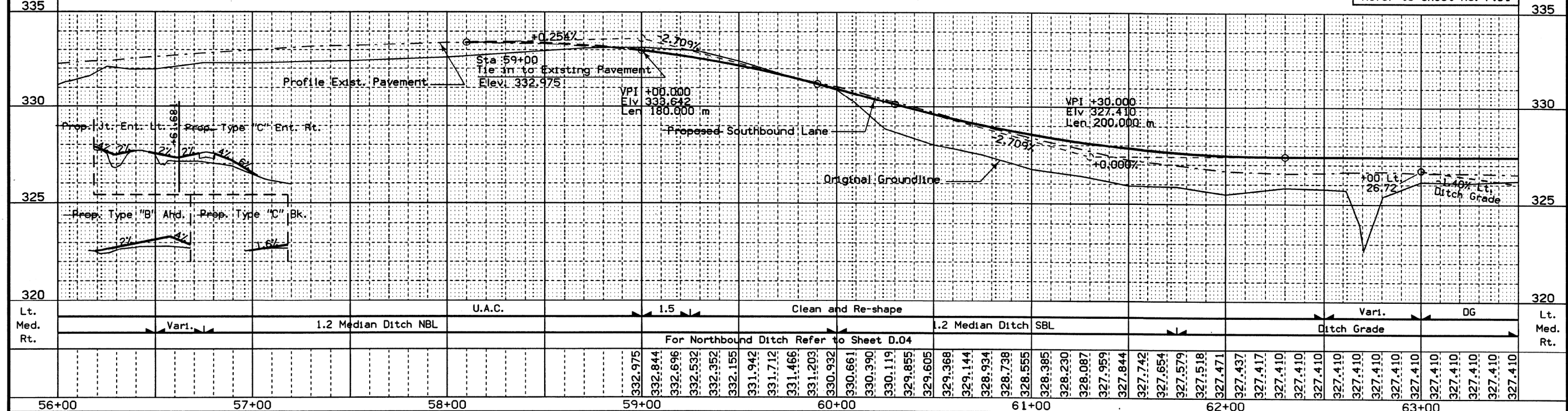


For Detour Crossover Details Refer to Sheet No. U.14

STA. 59+00.0
END PROJECT (SB)
 Southbound lanes
 R.P. 222.0

DETAILS OF SOUTHBOUND RDWY.
 For Balances Refer to Sheet No. D.04

For Interchange Details Refer to Sheets No. K.01 - K.06
 For Culvert Details Refer to Sheets No. V.12-V.14
 For Detour Details Refer to Sheet No. F.01



1000	DESIGN TEAM CADWELL/WULF/CAMERON	METRIC	IOWA DOT * OFFICE OF DESIGN	CHICKASAW COUNTY	PROJECT NUMBER NHSX-63-8(17)--3H-19	SHEET NUMBER D.05
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AS-BUILT PLANS, FOR INFORMATION ONLY

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
To be discussed at precon	

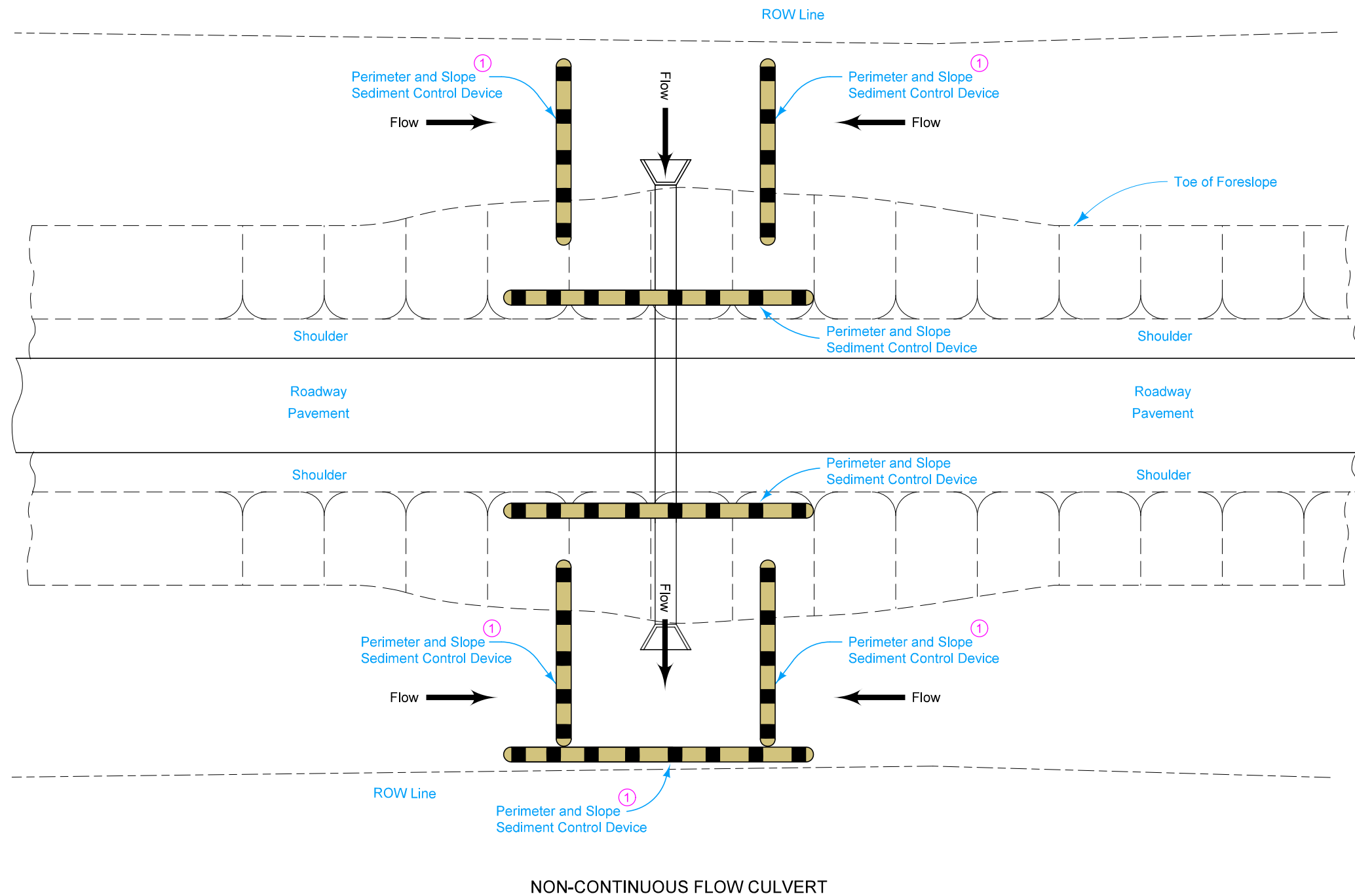
108-23A
08-01-08

TRAFFIC CONTROL PLAN

- 1) Thru traffic shall be maintained at all times.
- 2) The contractor shall coordinate traffic control with any other projects in the area.

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.



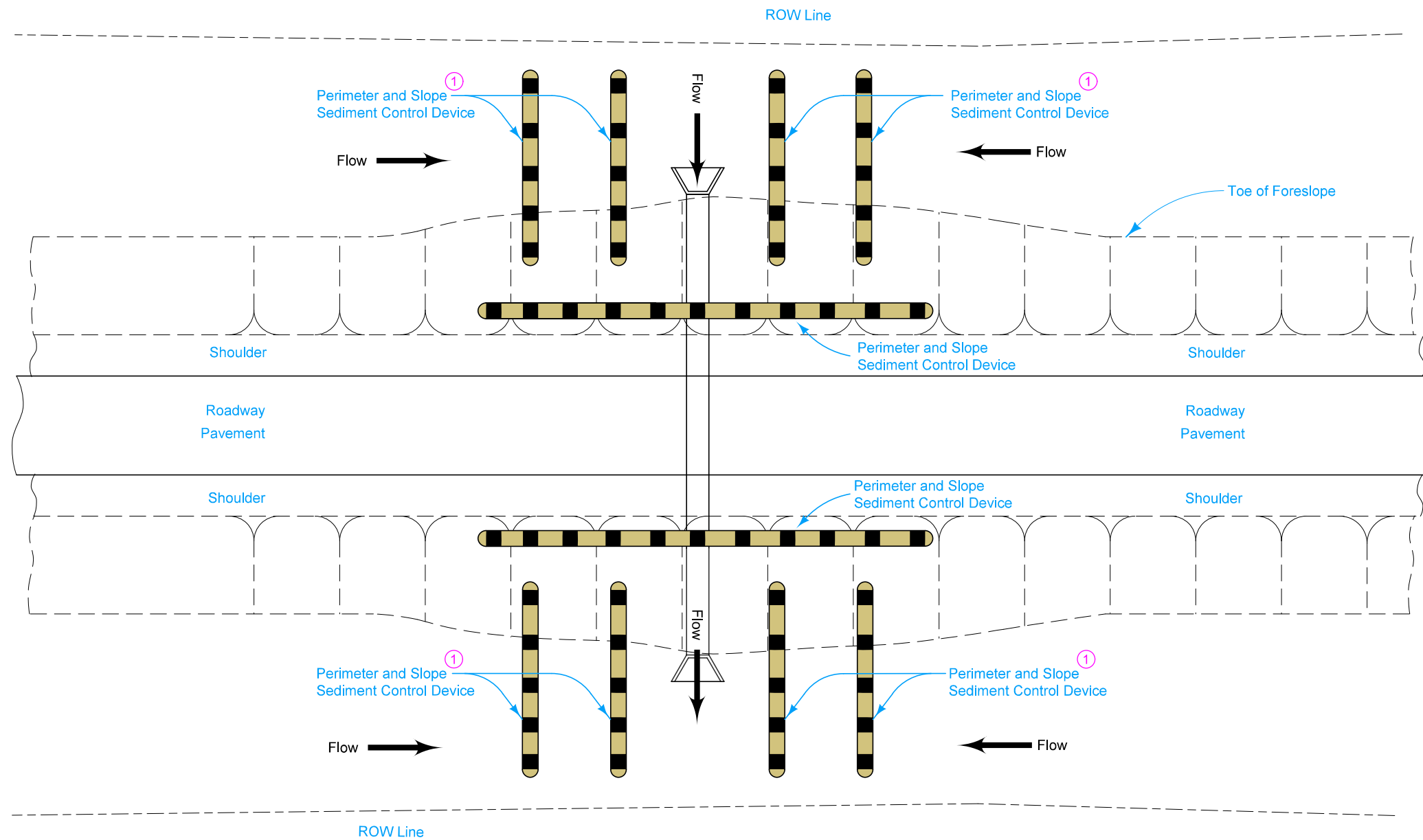
Possible Contract Items:
Perimeter and Slope Sediment Control Device

Possible Tabulations:
100-19
100-34


 ROAD DESIGN DETAIL	REVISION	
	NEW	10-15-19
570-12		SHEET 1 of 2
REVISIONS: New.....		

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

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



CONTINUOUS FLOW CULVERT

	REVISION	
	NEW	10-15-19
ROAD DESIGN DETAIL	570-12	
	SHEET 2 of 2	
REVISIONS: New. _____		
TEMPORARY SEDIMENT CONTROL FOR SHOULDER WIDENING WITH EXPOSED SOIL		