

LENGTH DATA

EXCEPTIONS
NONE

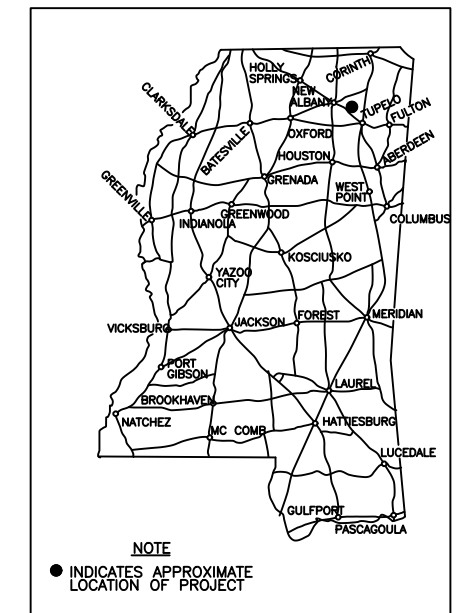
EQUATIONS
NONE

STATE OF MISSISSIPPI
OFFICE OF STATE AID ROAD CONSTRUCTION

PLAN AND PROFILE OF PROPOSED
COUNTY HIGHWAY
STATE AID PROJECT NO. SAP-84(1)

COUNTY ROAD NAME
MISSISSIPPI COUNTY

INDEX
FOR INDEX SEE SHEET NO. 2



LENGTH OF ROADWAY	7666.00	FT	1.451	MI
LENGTH OF BRIDGES	160.00	FT	0.030	MI
LENGTH OF PROJECT (NET)			1.481	MI
LENGTH OF EXCEPTIONS	0.00	FT	0.000	MI
LENGTH OF PROJECT (GROSS)			1.481	MI

REPLACES BRIDGE NUMBER SA84-103 WITH SA84-A103
REPLACES BRIDGE NUMBER SA84-104 WITH SA84-A104

SCALES

PLAN	1	IN. = 100	FT.
PROFILE- HORIZ.	1	IN. = 100	FT.
VERT.	1	IN. = 10	FT.
LAYOUT	1	IN. = 1000	FT.

STA. 208+33 BEGINNING OF PROJECT
LAT: 32.31697, LON: -90.18538

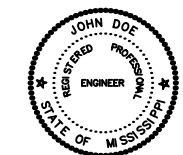
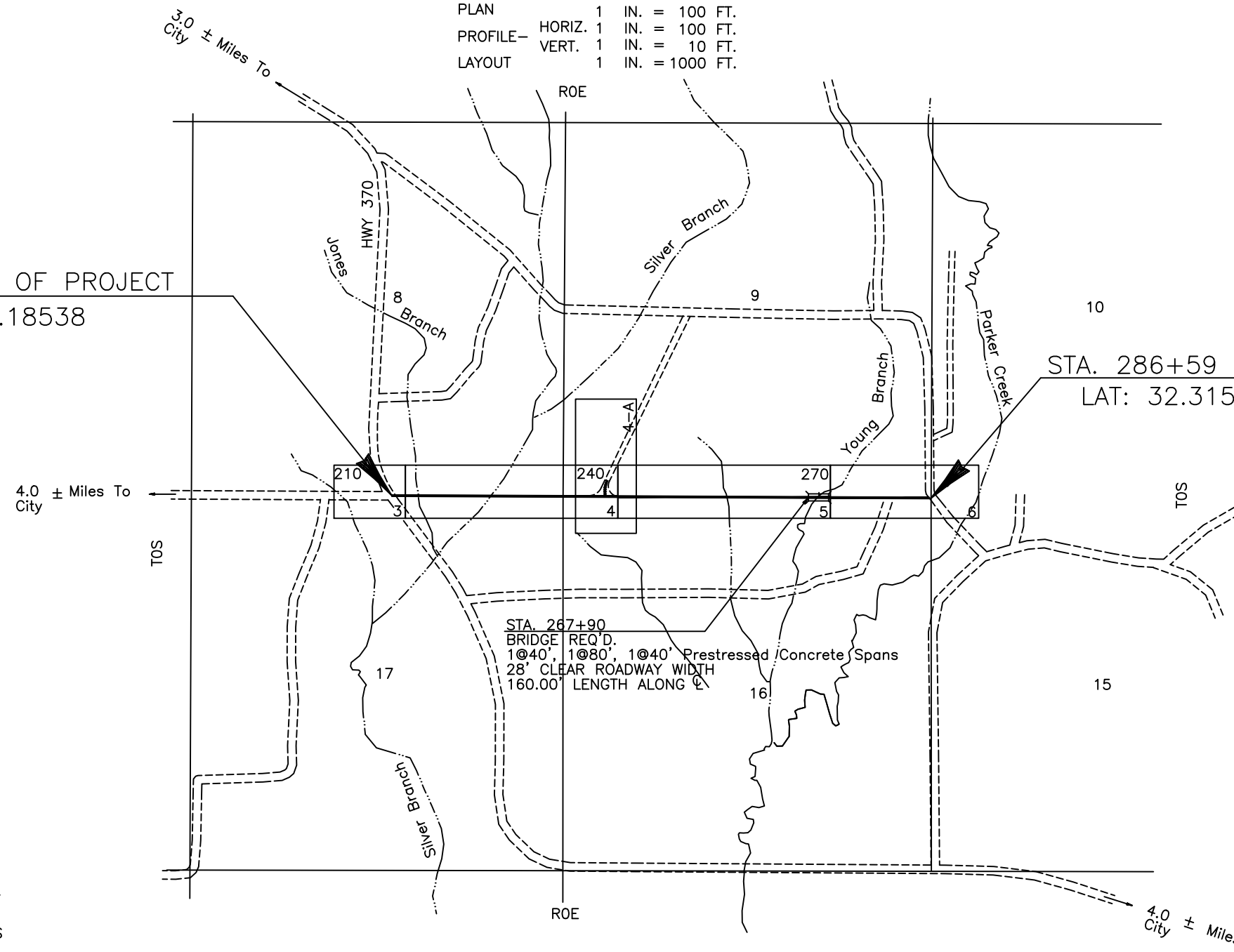
STA. 286+59 END OF PROJECT
LAT: 32.31542, LON: -90.17565

NOTE TO DESIGNER:

SAMPLE PLAN DATA
Type of Project: *Grade, Drain, Base, and Surfacing*
Date: *FEBRUARY 2023*

Notes To Designer are in italics throughout these sample plans and should not be included in project plans.

Note: GPS shall be a decimal expressed to a minimum of 5 decimal places. The GPS data may be located in a table format indicating the location and also located on other approved sheets.



PREPARED BY _____ COUNTY ENGINEER _____ DATE _____

OFFICE OF STATE AID ROAD CONSTRUCTION APPROVED

STATE AID ENGINEER _____ DATE _____

MISSISSIPPI STANDARD SPECIFICATIONS CURRENTLY APPROVED BY THE OFFICE OF STATE AID ROAD CONSTRUCTION ARE MADE A PART HEREOF FULLY AND COMPLETELY AS IF ATTACHED HERETO, EXCEPT WHERE SUPERSEDED BY THE SPECIAL PROVISIONS, OR AMENDED BY REVISIONS




SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	TOTAL QUANTITY		UNIT
		PLAN	FINAL	
ROADWAY ITEMS				
S-200-A	Mobilization	Lump Sum		Lump Sum
S-201-A	Clearing And Grubbing	Lump Sum		Lump Sum
S-202-B	Removal Of Bridge (Sta. 222+84)	1.0		Unit
S-202-B	Removal Of Bridge (Sta. 268+28)	1.0		Unit
S-203-A	Unclassified Excavation (FM)	23,095		Cu. Yd.
BASE AND SUSRFACING ITEMS				
ALTERNATE NO. 1				
S-304-A	Granular Material (LVM) (Class 4, Group B)	377		Cu. Yd.
S-304-A	Granular Material (LVM) (Class 9, Group B)	14,596		Cu. Yd.
S-308-A-1	Portland Cement	7,096		CWT
S-308-B-1	Soil-Cement-Water Mixing (Multiple Pass Mixers)	21,971		Sq. Yd.
S-410-C-1	Polymerized-Emulsified Asphalt, Grade CRS-2P	17,171		Gal.
S-410-D	Coarse Aggregate Cover Material, Size 6, Type Crushed Stone	368		Cu. Yd.
S-410-E	Seal Aggregate Cover Material, Size 7, Type Crushed Stone	198		Cu. Yd.
S-410-F	Blotter Material	28		Cu. Yd.
ALTERNATE NO. 2				
S-304-A	Granular Material (LVM) (Class 4, Group B)	20,144		Cu. Yd.
S-310-D	Mixing, Shaping, and Compaction	21,971		Sq. Yd.
S-408-A	Asphalt For Prime Coat (AE-P)	7,340		Gal.
S-410-C-1	Polymerized-Emulsified Asphalt, Grade CRS-2P	17,171		Gal.
S-410-D	Coarse Aggregate Cover Material, Size 5, Type Crushed Stone	368		Cu. Yd.
S-410-E	Seal Aggregate Cover Material, Size 7, Type Crushed Stone	198		Cu. Yd.
S-410-F	Blotter Material	28		Cu. Yd.
ROADWAY ITEMS (continued)				
S-601-A	Class B Structural Concrete	204.61		Cu. Yd.
S-601-B	Class B Structural Concrete, Minor Structures	2.41		Cu. Yd.
S-602-A	Reinforcing Steel	39,184		Lb.
S-603-C-A	15" Reinforced Concrete Pipe, Class III	224		Lin. Ft.
S-603-C-A	18" Reinforced Concrete Pipe, Class III	200		Lin. Ft.
S-603-C-A	24" Reinforced Concrete Pipe, Class III	272		Lin. Ft.
S-603-C-A	48" Reinforced Concrete Pipe, Class III	48		Lin. Ft.
S-603-C-B	18" Reinforced Concrete Pipe, End Section	3		Each
S-603-C-B	24" Reinforced Concrete Pipe, End Section	4		Each
S-603-C-B	48" Reinforced Concrete Pipe, End Section	2		Each
S-603-C-D	73" x 45" Reinforced Concrete Arch Pipe, Class III	56		Lin. Ft.
S-603-C-D	88" x 54" Reinforced Concrete Arch Pipe, Class III	56		Lin. Ft.
S-603-C-E	73" x 45" Reinforced Concrete Arch Pipe, End Section	2		Each
S-603-C-E	88" x 54" Reinforced Concrete Arch Pipe, End Section	2		Each
S-606-B	Guardrail, W-Beam	50.0		Lin. Ft.
S-606-D	Guardrail, Bridge End Section, Type "I" Thrie-Beam	4		Each
S-606-E	Guardrail, Terminal End Section	4		Each
S-617-A	Right-Of-Way Markers (Type I)	49		Each
S-618-A	Maintenance Of Traffic	Lump Sum		Lump Sum
S-618-B	Additional Construction Signs	0.0		Sq. Ft.
S-619-B	4" Wide Traffic Stripe (Skip Yellow)	1,328		Mi.
S-619-C	4" Wide Traffic Stripe (Continuous White)	16,677		Lin. Ft.
S-619-D	4" Wide Traffic Stripe (Continuous Yellow)	4,913		Lin. Ft.
S-619-F	Detail Traffic Stripe	228.0		Lin. Ft.
S-630-A	Reflectorized Traffic Warning Sign (Encapsulated Lens)	11		Each
S-630-B	Reflectorized Traffic Regulatory Sign (Encapsulated Lens)	4		Each
S-630-C	Reflectorized Traffic Object Marker (Encapsulated Lens) (Type 3)	4		Each
S-815-A	Loose Riprap, 200 lb.	50		Ton

SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	TOTAL QUANTITY		UNIT
		PLAN	FINAL	
EROSION CONTROL ITEMS				
S-212-A	Agricultural Limestone	20		Ton
S-212-B	Commercial Fertilizer (13-13-13)	10		Ton
S-212-F	Ammonium Nitrate	1		Ton
S-214-A	Seeding	10		Acre
S-215-A	Vegetative Materials For Mulch	20		Ton
① S-226-A	Solid Sodding	372		Sq. Yd.
S-229-A	Portland Cement Concrete Paved Ditch	16.20		Cu. Yd.
S-233-A	Temporary Silt Fence	6080		Lin. Ft.
BRIDGE ITEMS				
S-803-A	Test Pile	2		Each
S-803-B	Conventional Static Pile Load Test	0		Each
S-803-E	12" Steel Piling	1,710		Lin. Ft.
S-803-F	16" Preformed Pile Holes	200		Lin. Ft.
S-804-A	Bridge Concrete, Class "A"	196.89		Cu. Yd.
S-804-C	40' Prestressed Concrete Beam, Type I+2	198.75		Lin. Ft.
S-804-C	80' Prestressed Concrete Beam, Type III	398.75		Lin. Ft.
S-805-A	Reinforcement	32,749		Lb.
S-813-A	Concrete Railing	320		Lin. Ft.
S-815-A	Loose Riprap, 300 lb.	79		Ton
S-815-E	Geotextile Under Riprap, Type V, AOS 0.21-0.43	170		Sq. Yd.

① Includes 100 S.Y. Estimated To Be Used As Directed By The Engineer
Cementitious Material Exposure to Sulfates Is Negligible.

Note: If sulfates are present on the project, add a "bubble" note,    to each concrete pay item showing required cementitious material per 901-S-701.01.



PREPARED BY _____ DATE _____
COUNTY ENGINEER

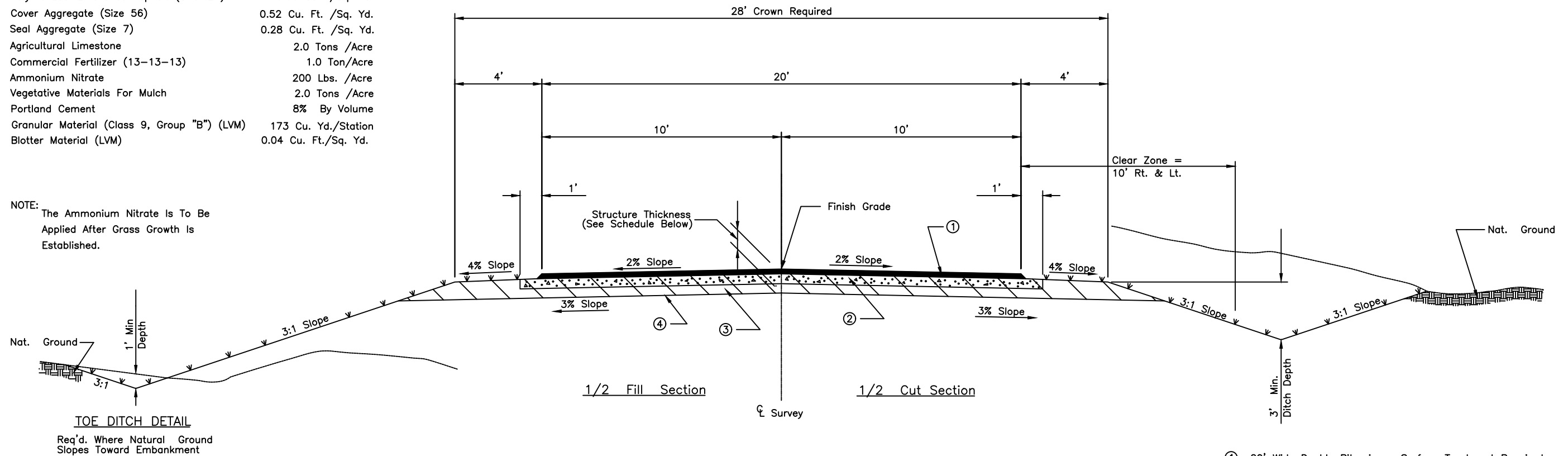
INDEX

SHEET NO.	TITLE	SHEET NO.	TITLE
1	Title Sheet	6401	Right-Of-Way Markers
2	Quantity & Index Sheet	6403	Rural Driveways
2-A	Typical Section Sheet, Alt. 1	6501	Pipe Culvert Installation
2-B	Typical Section Sheet, Alt. 2	6503	Concrete Pipe Collar
2-C	Schedule Sheet	6504	Junction Box For Pipe Culverts
2-D	Schedule Sheet	6507	Branch Connections
2-E	Intersection & Turnout Detail Sheet	6530	Flared End Section For Concrete Pipe
2-F	Detail Sheet	6531	Flared End Section For Concrete Arch Pipe
2-G	Striping Detail & Traffic Sign Sheet		
2-H	Traffic Control Plan	7005	Box Culvert Drawing Collar Locations
I	Bridge Layout		Normal and Skewed Culverts Group I Diagram
II	Bridge Riprap Detail And Soil Boring Sheet	7014-7016	Barrel Details - Single Cell
SA-PSM-1	Pavement Striping & Marking Details		Height - 8 Ft., Span 8-20 Ft.
SA-SE-2	Superelevation Transition		
SA-TSP-1	Traffic Sign Placement	7078-7080	Wings With 3:1 Slope For Basic Culvert Drawing, Single Cell, 30 Deg. Skew Details
6101	Typical Temporary Erosion Control/Sediment Control Applications		Heights - 8 Ft, Spans 8-20 Ft
6105	Typical Temporary Erosion, Sediment, And Water Pollution Control Measures(Silt Fence & Hay Bale Ditch Checks)		
6201	Guard Rail: "W" Beam (Wood Posts)	E-28-40(1)-09	40' Prestressed Concrete Span Details
6202	Guard Rail: Thrie Beam (Wood Posts)	E-28-40-PS-09	40' Prestressed Concrete Beam Details
6203	Guard Rail: "W" Beam (Steel Posts)	E-28-80(1)-09	80' Prestressed Concrete Span Details
6210	Guard Rail: Bridge End Section Type "I" (Wood Posts)	E-28-80-PS-09	80' Prestressed Concrete Beam Details
6211	Guard Rail: Bridge End Section Type "I" (Steel Posts)	E-28-40(2)-09	End Bent - 40' Prestressed Conc. Beam Span
6215	Guard Rail: Typical Installation At Bridge Approaches For 2-Lane, 2-Way Highway	E-28-80(4)-09	Dbl. Pile Bent - 40,60, & 80 Ft. Prestressed Beam Spans
6358	Highway Sign And Barricade Details For Construction Projects	R-99	Railing Details
		3-6	Plan/Profile Sheets
		4-A	Relocated County Road Plan/Profile

RATES OF APPLICATION USED FOR ESTIMATING QUANTITIES

ITEM	RATE
Polymerized-Emulsified Asphalt (CRS-2P)	0.90 Gal. /Sq. Yd.
Cover Aggregate (Size 56)	0.52 Cu. Ft. /Sq. Yd.
Seal Aggregate (Size 7)	0.28 Cu. Ft. /Sq. Yd.
Agricultural Limestone	2.0 Tons /Acre
Commercial Fertilizer (13-13-13)	1.0 Ton/Acre
Ammonium Nitrate	200 Lbs. /Acre
Vegetative Materials For Mulch	2.0 Tons /Acre
Portland Cement	8% By Volume
Granular Material (Class 9, Group "B") (LVM)	173 Cu. Yd./Station
Blotter Material (LVM)	0.04 Cu. Ft./Sq. Yd.

NOTE: The Ammonium Nitrate Is To Be Applied After Grass Growth Is Established.



FLEXIBLE PAVEMENT DESIGN

DATA FOR PAVEMENT DETERMINATION	
(2022) ADT = 110	Current
(2027) ADT = 117	n Year
(2042) ADT = 143	Design
DHV = 21	
D = 50 % of DHV	
T = 10 % of DHV	
T (Total) = 10 % of ADT	
18k (Flex) = 675/1000	
18k (Rigid) = 0/1000	
CBR = 11	

REQUIRED STRUCTURE NUMBER			
2042		2022	
ADL	4	ADL	4
CBR	11	CBR	11
SSV	4.85	SSV	4.85
PT	2.5	PT	2.5
SN	1.916	SN	1.472

TYPICAL GRADE, DRAIN, BASE & SURFACING SECTION

ALTERNATE No. 1. CEMENT TREATED GRANULAR BASE
 Sta. 208+33 To Sta. 286+59, Mainline
 Sta. 10+00.00 To Sta. 15+32.75, Relocated County Road
 N.T.S.

- ① 20' Wide Double Bituminous Surface Treatment Required
- ② Soil-Cement-Water Mixing Req'd. (22' Wide) Portland Cement Shall Be Incorporated Into The Top 6" Of Granular Material (Class 9, Group B). Cement Percentage (8% By Volume Estimated), Proper Moisture Content And Approximate Density To Be Determined By A State Aid Approved Laboratory From Soil Analysis Taken From Granular Material Placed On Roadway.
- ③ Granular Material (Class 9, Group B) Required
- ④ Subgrade

GENERAL NOTES

Erosion and sediment control measures are to be applied on disturbed areas indicated (www) or as required by the Storm Water Pollution Prevention Plan.

Clearing and grubbing of construction easements shall be considered as normal right-of-way and paid for by lump sum.

Before final acceptance, the entire right-of-way shall be mowed by the contractor at no cost to the project.

SCHEDULE OF STRUCTURE THICKNESS

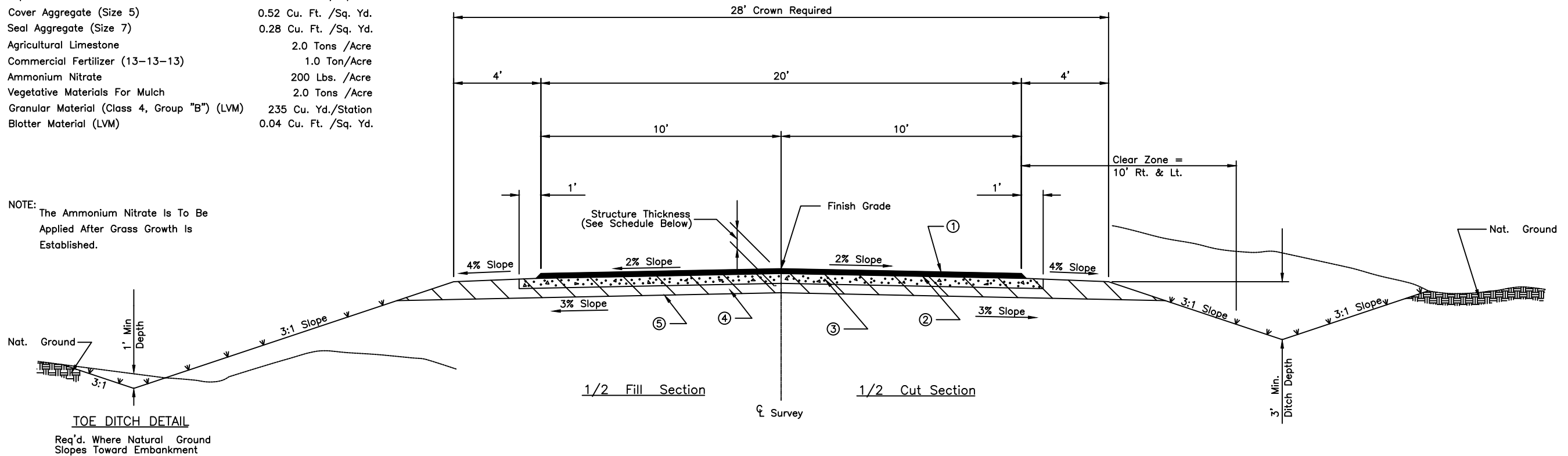
STATION TO STATION	ESTIMATED SUBGRADE CBR	SOIL SUPPORT VALUE	AVERAGE DAILY LANE LOADING	STRUCTURE NUMBER REQUIRED	SUBBASE THICKNESS		BASE COURSE THICKNESS		SURFACE COURSE THICKNESS		TOTAL PROVIDED	
					in	SN	in	SN	in	SN	in	SN
208+33 - 286+59 & 10+00 - 15+32.75 (Relocated County Road)	11	4.85	4	1.47	6.0	0.54	6.0	1.02	0	0	12.0	1.56

NOTE: SUBGRADE CBR IS ESTIMATED ONLY. A SUBGRADE SOIL PROFILE WILL BE PREPARED AND THE CBR AND THE REQUIRED BASE STRUCTURE THICKNESS DETERMINED AFTER GRADING AND BEFORE PLACING BASE MATERIAL.

RATES OF APPLICATION USED FOR ESTIMATING QUANTITIES

ITEM	RATE
Polymerized-Emulsified Asphalt (CRS-2P)	0.90 Gal. /Sq. Yd.
Asphalt For Prime Coat	0.35 Gal. /Sq. Yd.
Cover Aggregate (Size 5)	0.52 Cu. Ft. /Sq. Yd.
Seal Aggregate (Size 7)	0.28 Cu. Ft. /Sq. Yd.
Agricultural Limestone	2.0 Tons /Acre
Commercial Fertilizer (13-13-13)	1.0 Ton/Acre
Ammonium Nitrate	200 Lbs. /Acre
Vegetative Materials For Mulch	2.0 Tons /Acre
Granular Material (Class 4, Group "B") (LVM)	235 Cu. Yd./Station
Blotter Material (LVM)	0.04 Cu. Ft. /Sq. Yd.

NOTE: The Ammonium Nitrate Is To Be Applied After Grass Growth Is Established.



FLEXIBLE PAVEMENT DESIGN

DATA FOR PAVEMENT DETERMINATION
(2022) ADT = 110 Current
(2027) ADT = 117 n Year
(2042) ADT = 143 Design
DHV = 21
D = 50 % of DHV
T = 10 % of DHV
T (Total) = 10 % of ADT
18k (Flex) = 675/1000
18k (Rigid) = 0/1000
CBR = 11

REQUIRED STRUCTURE NUMBER	
2042	2022
ADL 4	ADL 4
CBR 11	CBR 11
SSV 4.85	SSV 4.85
PT 2.5	PT 2.5
SN 1.916	SN 1.472

TYPICAL GRADE, DRAIN, BASE & SURFACING SECTION

ALTERNATE No. 2. MIXED, SHAPED, AND COMPACTED GRANULAR BASE
 Sta. 208+33 To Sta. 286+59, Mainline
 Sta. 10+00.00 To Sta. 15+32.75, Relocated County Road
 N.T.S.

- ① 20' Wide Double Bituminous Surface Treatment Required
- ② Prime Coat Required (22' Wide)
- ③ Mixing, Shaping, & Compaction Req'd. (22' Wide) 6 in. Deep.
- ④ Granular Material (Class 4, Group B) Required
- ⑤ Subgrade

GENERAL NOTES

Erosion and sediment control measures are to be applied on disturbed areas indicated (~~XXX~~) or as required by the Storm Water Pollution Prevention Plan.

Clearing and grubbing of construction easements shall be considered as normal right-of-way and paid for by lump sum.

Before final acceptance, the entire right-of-way shall be mowed by the contractor at no cost to the project.

SCHEDULE OF STRUCTURE THICKNESS

STATION TO STATION	ESTIMATED SUBGRADE CBR	SOIL SUPPORT VALUE	AVERAGE DAILY LANE LOADING	STRUCTURE NUMBER REQUIRED	SUBBASE THICKNESS		BASE COURSE THICKNESS		SURFACE COURSE THICKNESS		TOTAL PROVIDED	
					in	SN	in	SN	in	SN	in	SN
208+33 - 286+59 & 10+00 - 15+32.75 (Relocated County Road)	11	4.85	4	1.47	9.0	0.99	6.0	0.60	0	0	15.0	1.59

NOTE: SUBGRADE CBR IS ESTIMATED ONLY. A SUBGRADE SOIL PROFILE WILL BE PREPARED AND THE CBR AND THE REQUIRED BASE STRUCTURE THICKNESS DETERMINED AFTER GRADING AND BEFORE PLACING BASE MATERIAL.

BOX CULVERT SCHEDULE

Sheet No.	Station	Size	State Standards	Length	Class "B" Conc.	Reinf.	"T1"	"T2"	"V"	"Z"	Remarks
4	223+09	16' X 8'	7005, 7014, 7015, 7016	65	204.61	39,184	13	16.5	11.5	22	30' Lt. Fwd.
			7078, 7079, 7080								10' MAX COVER
Total					204.61	39,184					
Units				Ft	Cu Yd	Lb	In	In	In	Ft	

CONC. PAVED DITCH SCHEDULE

Sheet No.	Station - Station	Side	Width	Length	Toe Wall	Total
5	257+00 - 357+00	LT.	6.0	100.0	0.30	8.11
5	257+00 - 357+00	RT.	6.0	100.0	0.30	8.11
TOTALS						16.22
UNITS			feet	feet	cubic yards	cubic yards

CULVERT HYDRAULIC DESIGN SUMMARY

SH. NO.	STATION	D. A. Acres	CULVERT SIZE	UPSTREAM FLOWLINE ELEVATION (feet)	DESIGN STORM (Q25) (25-YEAR STORM)			BASE STORM (Q100) (100-YEAR STORM)			STORM OF RECORD			REMARKS		
					DISCHARGE cfs	* HEADWATER CONTROL IN/OUT		DISCHARGE cfs	* HEADWATER CONTROL IN/OUT		DATE OCCURRED	DISCHARGE cfs	HIGH WATER ELEVATION			
						HW/D	HW (DEPTH)		HW (ELEV.)	HW/D					HW (DEPTH)	HW (ELEV.)
3	208+62	6	18"	335.05	20	1.55	3.10	338.15	26	1.90	3.80	338.85	Not Available	C= <u>0.37</u> I = <u>9.0</u> in./hr.		
4	212+50	252	88" X 54"	326.00	298	1.43	6.44	332.44	381	2.00	9.00	335.00	1972	450	338.00	S= <u>6.29</u> Ft/Mi L= <u>1.89</u> Mi
4	223+09	1336	16' X 8'	322.00	1020	0.95	7.60	333.60	1313	1.30	10.40	336.40	1927	1313	336.40	S= <u>4.27</u> Ft/Mi L= <u>3.16</u> Mi
4-A	238+00	7	24"	341.20	24	1.60	3.20	344.40	29	2.10	4.20	345.40	Not Available		C= <u>0.37</u> I = <u>9.0</u> in./hr.	
5	256+97	78	73" X 45"	333.70	175	1.49	5.59	339.29	220	2.25	8.44	342.14	1962	275	345.25	S= <u>4.40</u> Ft/Mi L= <u>0.85</u> Mi
6	281+29	23	48"	330.00	125	1.65	6.60	336.60	155	1.85	7.40	337.40	Not Available		S= <u>5.00</u> Ft/Mi L= <u>0.43</u> Mi	

* Headwater Elevation Values Shown Are Theoretical And May Vary From Actual Conditions.

Note: If slope and length data is generated via StreamStats

PIPE SCHEDULE

STATION	CONC. PIPE, CLASS III				CONC. F.E.S. REQ'D.			CONC. ARCH PIPE, CLASS III		CONC. ARCH PIPE F.E.S REQ'D.		CLASS "B" CONC., MINOR STRUCT.	REMARKS
	15"	18"	24"	48"	18"	24"	48"	73" X 45"	88" X 54"	73" X 45"	88" X 54"		
208+62		32			1.0							0.063	EXTEND EXIST. R.C.P. RT., TOE WALL REQ'D.
211+30	32												SIDEDRAIN RT.
212+50								56			2.0	0.207	CROSS DRAIN, TOE WALL REQ'D.
214+50	32												SIDEDRAIN RT.
220+80			32										SIDEDRAIN RT.
221+60	32												SIDEDRAIN LT.
222+75			56		1.0							0.493	TIE INTO WING LT, PIPE COLLAR, BRANCH CONN., AND TOE WALL REQ'D.
223+07			8										TIE INTO JB - 1 RT., BRANCH CONNECTION REQ'D.
223+43			56		1.0							0.083	TIE INTO JB - 1 RT., TOE WALL REQ'D.
224+40			32										SIDEDRAIN LT.
228+88			32										SIDEDRAIN RT.
232+90		32											SIDEDRAIN RT.
233+35		32											SIDEDRAIN RT.
238+00			56		2.0							0.083	CROSS DRAIN, TOE WALL REQ'D.
244+70	32												SIDEDRAIN LT.
250+65		32											SIDEDRAIN LT.
256+97							56		2.0			0.167	CROSS DRAIN, TOE WALL REQ'D.
260+10	32												SIDEDRAIN RT.
272+40		32											SIDEDRAIN RT.
273+23		40			2.0							0.063	SIDEDRAIN RT.
279+08	32												SIDEDRAIN RT.
281+29			48		2.0							0.145	CROSS DRAIN, TOE WALL REQ'D.
284+85	32												SIDEDRAIN RT.
TOTALS	224.0	200.0	272.0	48.0	3.0	4.0	2.0	56.0	56.0	2.0	2.0	1.304	
UNITS	feet	feet	feet	feet	each	each	each	feet	feet	each	each	cubic yards	

PORTLAND CEMENT EXPOSURE TO SOLUBLE SULFATES IS NEGLIGIBLE.

MODIFY THIS NOTE AS REQUIRED BY CONDITIONS FOR SEAWATER, MODERATE, OR SEVERE SULFATES PER 901-S-701.01.

Note: Submit Sulfate Test Report(s) with PS&E plans

IF YOU DO NOT DESIRE TOE WALLS AS PER STD. NO. 6530 AND 6531, DELETE THE COLUMN FOR CONC., MINOR STRUCTURES AND ADD A NOTE UNDER THE PIPE SCHEDULE STATING THAT TOE WALLS ARE NOT REQUIRED.

RAMP SCHEDULE						
Sheet No.	Station	Side	Width (feet)	Paved Apron Area	Alt. No. 1 Gran. Mat'l. (Cl.4, Gp.B)	Alt. No. 2 Gran. Mat'l. (Cl.4, Gp.B)
3	209+15	LT.	50.00	25.30	54	63
4	211+30	RT.	20.0	11.97	17	20
4	214+50	RT.	20.0	11.97	17	20
4	220+80	RT.	20.0	11.97	17	20
4	221+60	LT.	20.0	11.97	17	20
4	223+43	RT.	20.0	11.97	17	20
4	224+40	LT.	20.0	11.97	17	20
4	228+88	RT.	20.0	11.97	17	20
4	232+90	RT.	20.0	11.97	17	20
4	233+35	RT.	20.0	11.97	17	20
5	244+70	LT.	20.0	11.97	17	20
5	250+65	LT.	20.0	11.97	17	20
5	260+10	RT.	20.0	11.97	17	20
5	261+60	LT.	20.0	11.97	17	20
6	272+40	RT.	20.0	11.97	17	20
6	276+50	LT.	20.0	11.97	17	20
6	277+80	RT.	20.0	11.97	17	20
6	279+08	RT.	20.0	11.97	17	20
6	284+85	RT.	20.0	11.97	17	20
6	286+13	RT.	20.0	11.97	17	20
TOTALS				252.73	377	443
UNITS				square yards	cubic yards	cubic yards

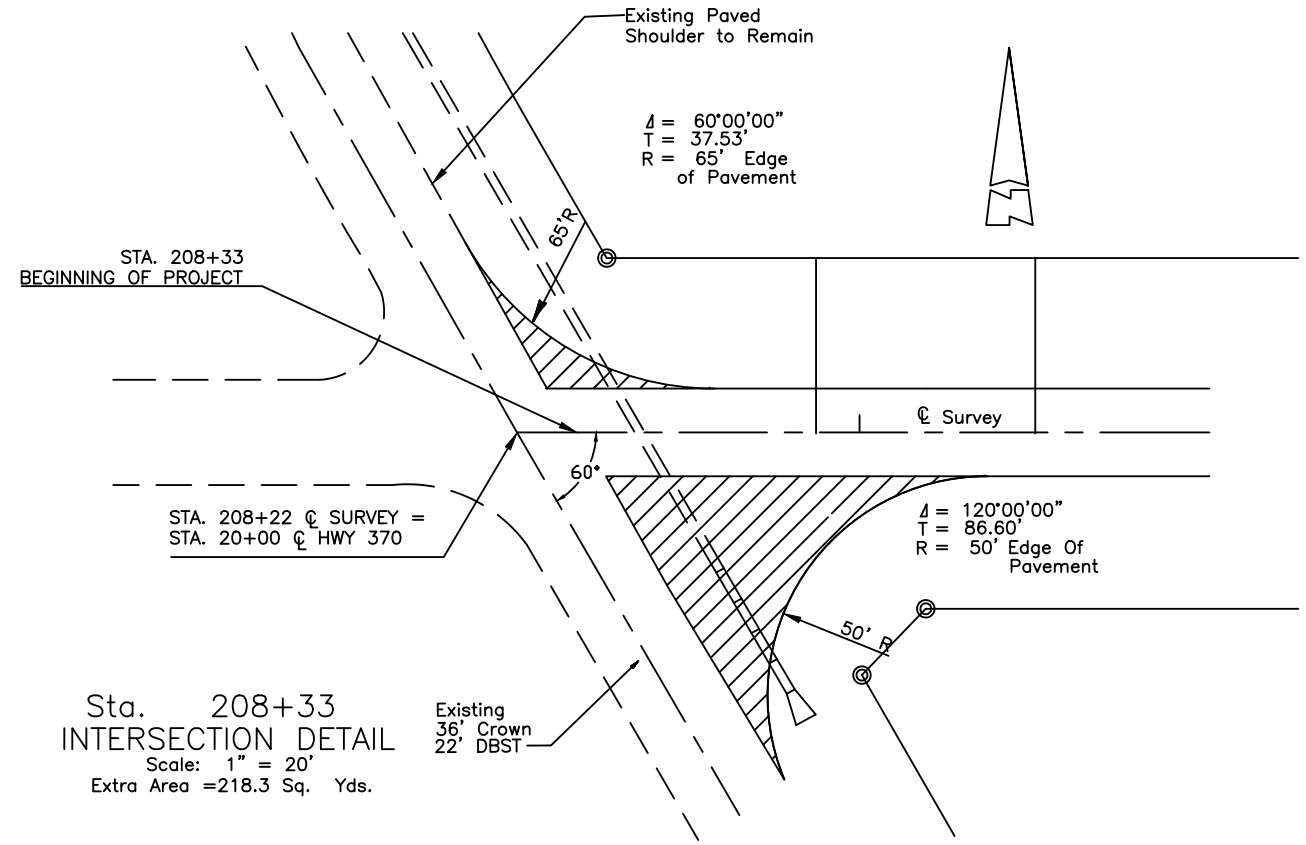
SOLID SOD SCHEDULE						
Sheet No.	Station - Station	Side	Width	Length	Area	
4	211+90 - 212+40	LT.	6.0	50.00	33.33	
4	211+90 - 212+40	RT.	6.0	50.00	33.33	
4	212+60 - 213+10	LT.	6.0	50.00	33.33	
4	212+60 - 213+10	RT.	6.0	50.00	33.33	
5	257+00 - 357+00	LT.	2.0	100.00	44.44	
5	257+00 - 357+00	RT.	2.0	100.00	44.44	
6	270+00 - 270+74	RT.	6.0	74.00	49.36	
TOTALS					271.56	
UNITS			feet	feet	square yards	

ESTIMATED GRANULAR MATERIAL REQ'D.		
Area	Alternate No. 1 Granular Material (Cl. 9, Gp. B) (LVM)	Alternate No. 2 Granular Material (Cl. 4, Gp. B) (LVM)
Roadway	13,262.2	18,015.10
Intersections and Turnouts	261.3	326.6
Ramps	See Ramp Schedule	443
Bridge Approaches	306.6	383.46
Extra Area In Curves	61.4	76.84
Relocated County Road	704.1	899.46
Project Total	14,595.6	20,144.46
Units	cubic yards	cubic yards

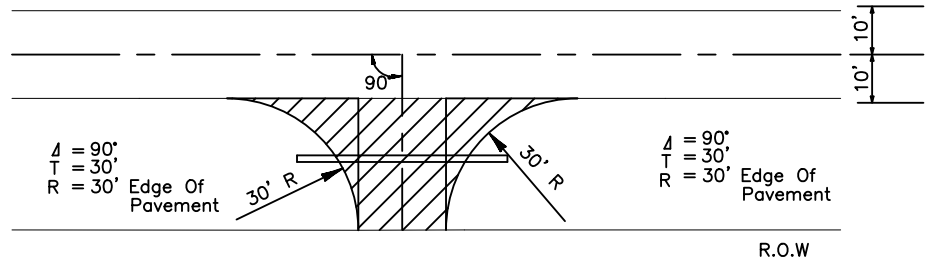
TEMPORARY SILT FENCE SCHEDULE			
Sheet No.	Station - Station	Side	Length
4	210+00 - 215+00	RT. & LT.	1000
4	221+00 - 229+00	RT. & LT.	1600
5	254+00 - 258+00	RT. & LT.	800
5	267+00 - 268+40	RT. & LT.	280
5-6	269+00 - 274+00	RT. & LT.	1000
6	279+00 - 286+00	RT. & LT.	1400
TOTALS			6080
UNITS		feet	

JUNCTION BOX SCHEDULE																				
Sheet No.	Station	J.B. No.	Side 1	Side 2	Side 3	Side 4	Side W1-3	Side W2-4	Inlet Height	Cl. "B" Conc.	Rein. Steel	Bar List								
			SZ./SK.	SZ./SK.	SZ./SK.	SZ./SK.						A1	A2	A3	A4	B	C	D	E	F
4	223+12	JB-1	24/0	0/0	24/45	0/0	5.29	2.50	3.50	1.10	78.83	2@37	0	2@37	0	2@57	2@24	4@36	16@26	8@59
TOTAL											1.10	78.83								
UNITS			in	in	in	in	feet	feet	feet	cubic yards	lb	inches	inches	inches	inches	inches	inches	inches	inches	inches

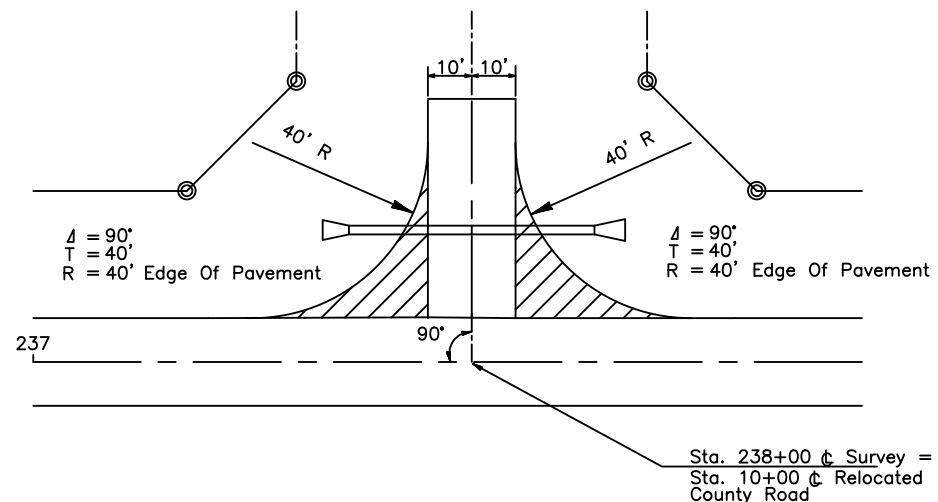
BASE AND SURFACING SCHEDULE												
Area	BASE				Surfacing Area	SURFACING						
	Alternate No. 1		Alternate No. 2			Alternate No. 1			Alternate No. 2			Blotter Material
	Soil-Cement Water Mixing	Portland Cement	Mixing-Shaping Compaction	Prime Coat		Asphalt Cement (CRS-2P)	Cover Aggregate Size 56	Cover Aggregate Size 7	Asphalt Cement (CRS - 2P)	Cover Aggregate Size 5	Cover Aggregate Size 7	
Roadway	18,739.11	6341.32	18,739.11	6,558.69	17,035.56	15,332.0	328.09	176.66	15,332.0	328.09	176.66	25.24
Intersections and Turnouts	522.60	176.85	522.60	182.93	522.60	417.2	9.75	5.25	417.2	9.75	525	0.75
Ramps (20)	252.73	85.52	252.73	88.46	252.73	227.5	4.87	2.62	227.5	4.87	2.62	0.37
Bridge Approaches	31.00	10.48	31.00	10.85	31.00	27.9	0.60	0.32	27.9	0.60	0.32	0.04
Extra Area In Curves	122.93	41.59	122.93	43.03	122.93	110.6	2.37	1.28	110.6	2.37	1.28	0.18
Relocated County Road	1,302.28	440.69	1,302.28	455.80	1183.89	1065.5	22.80	12.28	1065.5	22.80	12.28	1.75
Project Total	21,970.65	7,096.45	21,970.65	7,339.76	19,148.71	17,170.70	368.48	198.41	17,170.7	368.48	198.41	28.33
Units	square yards	cwt	square yards	gallons	square yards	gallons	cubic yards	cubic yards	gallons	cubic yards	cubic yards	cubic yards



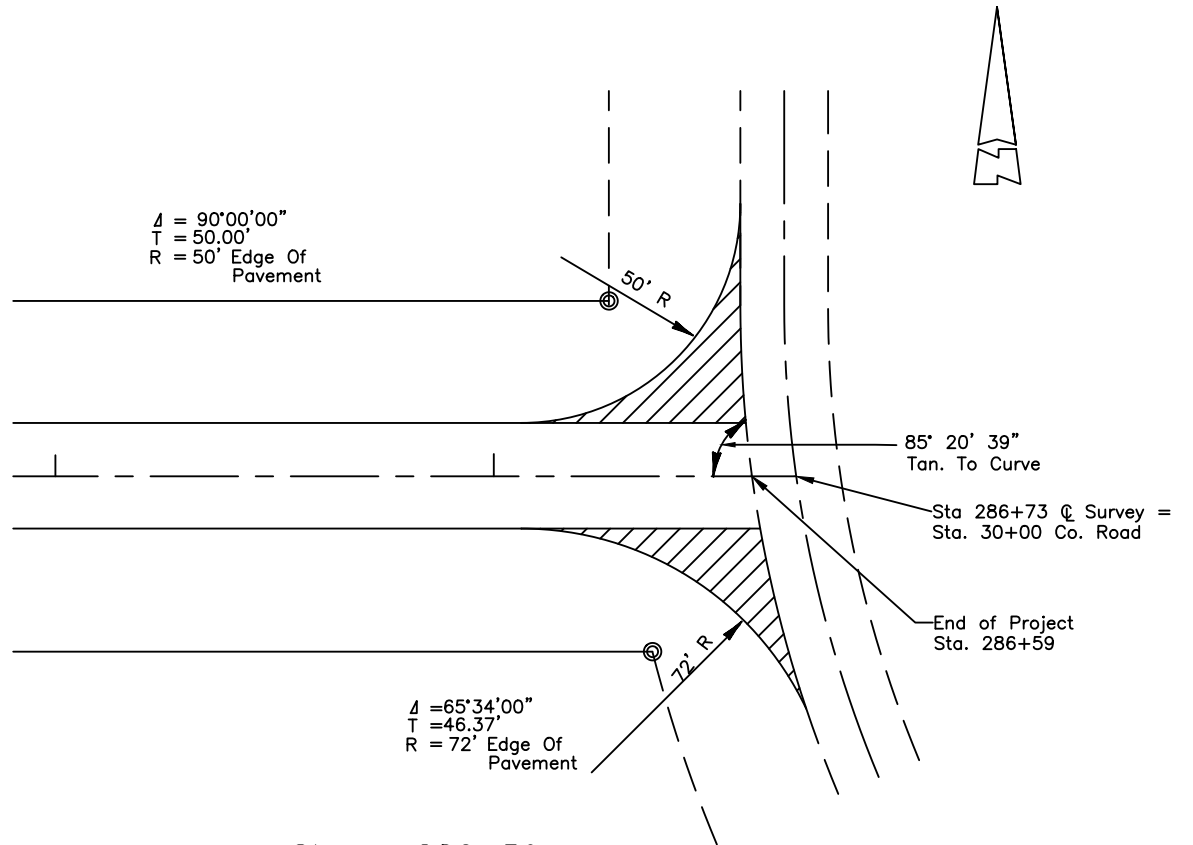
Sta. 208+33
 INTERSECTION DETAIL
 Scale: 1" = 20'
 Extra Area = 218.3 Sq. Yds.



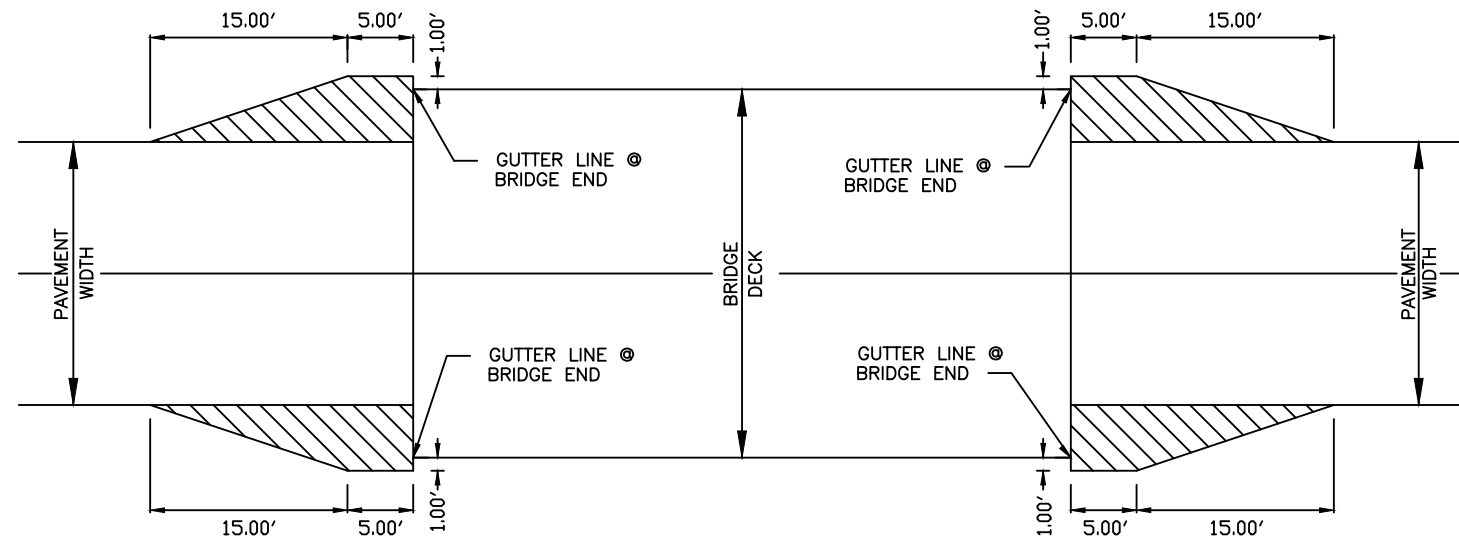
Sta. 273+23 Rt.
 TURNOUT DETAIL
 Scale: 1" = 20'
 Extra Area = 109.6 Sq. Yds.



Sta. 238+00 Lt.
 TURNOUT DETAIL
 FOR RELOCATED CO. ROAD
 Scale: 1" = 20'
 Extra Area = 76.3 Sq. Yds.

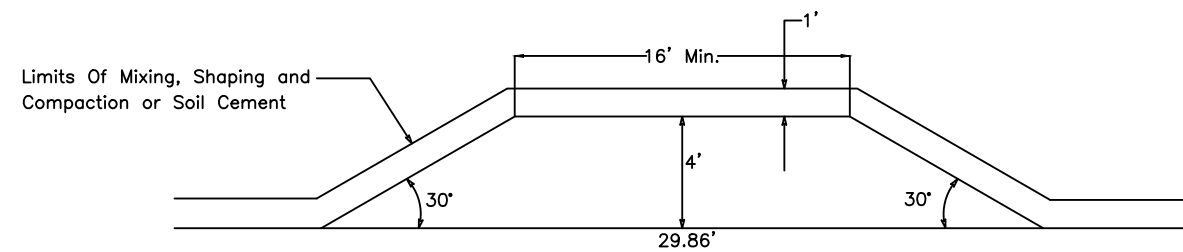
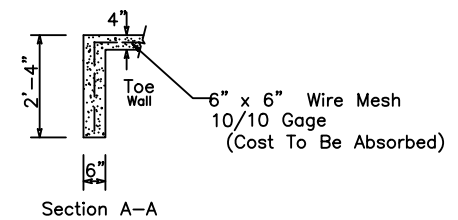
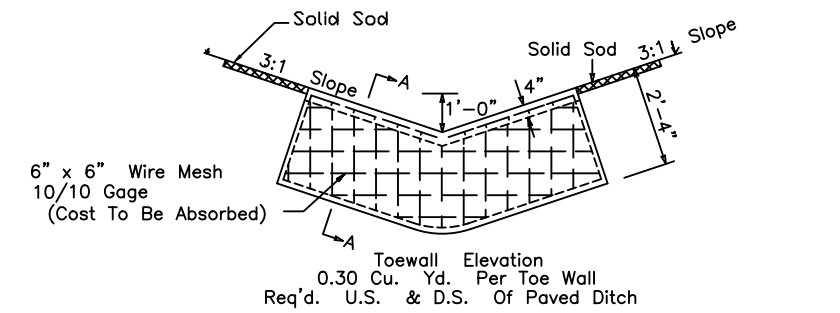
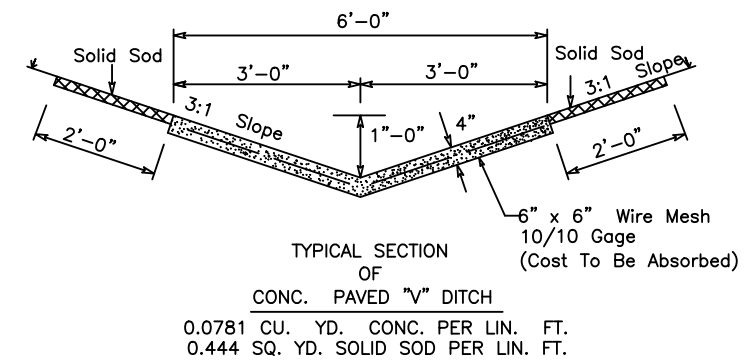


Sta. 286+59
 INTERSECTION DETAIL
 Scale: 1" = 20'
 Extra Area = 118.4 Sq. Yds.



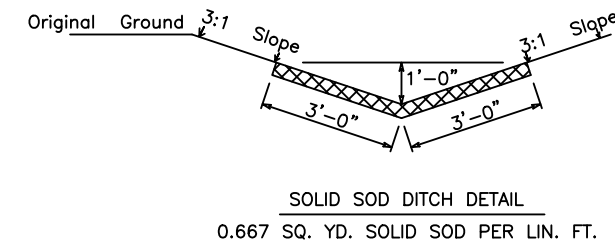
PAVING TREATMENT AT BRIDGE ENDS

Extra Area 31 sq. yd.



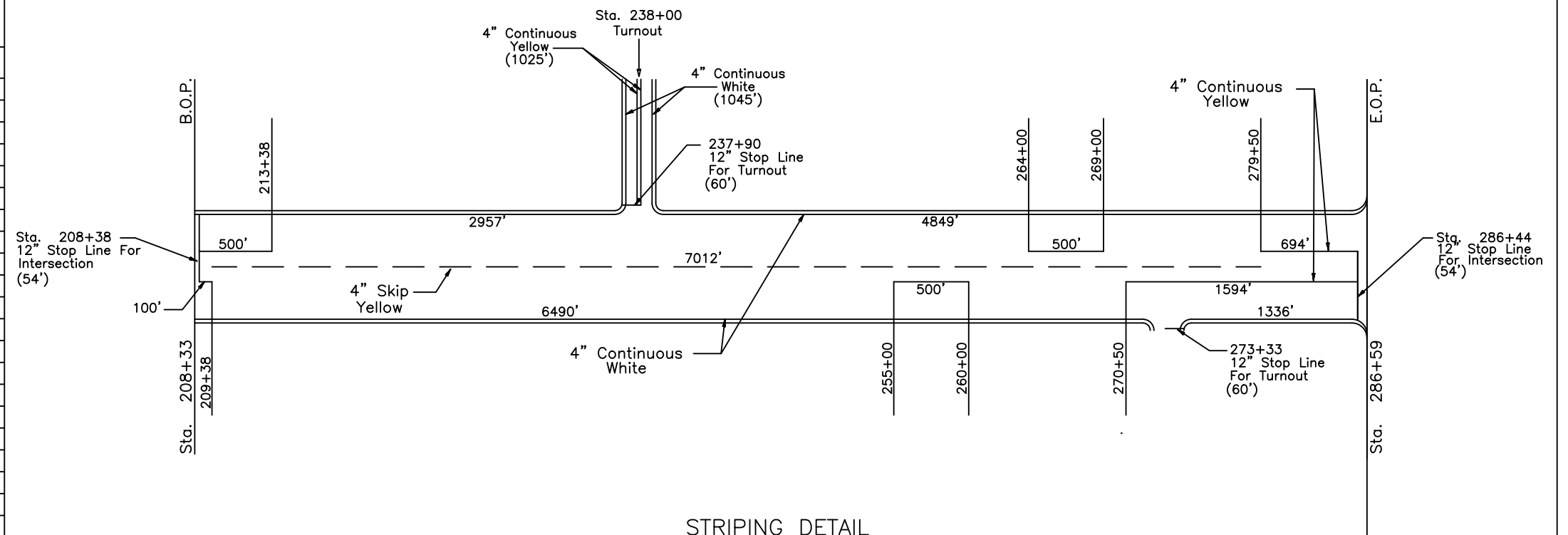
TYPICAL PAVED APRON DETAIL

10.2 SQ. YD. EXTRA AREA PER 16' RAMP
11.97 SQ. YD. EXTRA AREA PER 20' RAMP



TRAFFIC SIGNS REQ'D

Station	Type	Remarks	Side
208+53	R1-1	Stop Sign	Lt.
213+28	W3-1	Stop Ahead Sign	Lt.
235+00	W2-2	Side Road Lt.	Rt.
237+80	R1-1	Stop Sign	Lt.
15+00	W3-1	Stop Ahead Sign (Relocated Co. Road)	Lt.
238+00	W1-7	Large Arrow (two directions)	Rt.
241+00	W2-2	Side Road Rt.	Lt.
267+89	OM-3L	Object Marker	Lt.
267+89	OM-3R	Object Marker	Rt.
269+51	OM-3L	Object Marker	Lt.
269+51	OM-3R	Object Marker	Rt.
270+90	W2-2	Side Road Rt.	Rt.
273+23	W1-7	Large Arrow (two directions)	Lt.
273+33	W3-1	Stop Ahead Sign	Rt. 450'
273+33	R1-1	Stop Sign	Rt.
276+25	W2-2	Side Road Lt.	Lt.
281+96	W3-1	Stop Ahead Sign	Rt.
286+46	R1-1	Stop Sign	Rt.
286+85	W1-7	Large Arrow (two directions)	CL
Total Signs			
11	Warning Signs Req'd.		
4	Regulatory Signs Req'd.		
4	Hazard Signs Req'd.		



STRIPING DETAIL

N.T.S.
 85 Percentile Speed = 55 MPH
 Minimum Passing Sight Distance = 900 Ft.

Skip Yellow = 1.328 Mi.
 Continuous White = 16,677 Lin. Ft.
 Continuous Yellow = 4913 Lin. Ft.
 Detail Traffic Stripe = 228 Lin. Ft.

CONSTRUCTION NOTES:

1. AFTER ALL CONSTRUCTION IS COMPLETE, INCLUDING THE INSTALLATION OF GUARDRAILS, COMPLETE IN PLACE, BUT PRIOR TO STRIPING, THE ENTIRE PROJECT SHALL BE OPENED TO ALL TRAFFIC.
2. WHENEVER PAVEMENT CONSTRUCTION HAS PROGRESSED SUFFICIENTLY TO PERMIT TRAFFIC MOVEMENT THAT IS UNRESTRICTED BY CHANNELIZING OR OTHER TRAFFIC CONTROL METHODS, TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED PER S-619.08. THE CONTRACTOR SHALL REPLACE RAISED PAVEMENT MARKERS AS NECESSARY. IF MORE THAN ONE BITUMINOUS LIFT IS REQUIRED, THE TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED AND MAINTAINED IN A LIKE MANNER AFTER EACH LIFT. THE TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED PRIOR TO THE APPLICATION OF THE SEAL COAT. THIS WORK IS NOT A SEPARATE PAY ITEM BUT WILL BE CONSIDERED INCLUDED IN THE LUMP SUM PAYMENT FOR PAY ITEM NO. S-618-A, "MAINTENANCE OF TRAFFIC".

3. PRIOR TO OPENING THE PROJECT TO TRAFFIC, R4-1 "DO NOT PASS" OR R4-2 "PASS WITH CARE" SIGNS SHALL BE INSTALLED ON THE RIGHT HAND SIDE OF THE ROAD AT THE B.O.P. AND THE E.O.P. AND THE BEGINNING AND THE END OF THE NO-PASSING ZONES AND W14-3 SIGNS ON THE LEFT HAND SIDE OF THE ROADWAY IN ACCORDANCE WITH THE PERMANENT STRIPING SCHEDULE IN THE PLANS. THIS WORK IS NOT A SEPARATE PAY ITEM BUT WILL BE CONSIDERED INCLUDED IN THE LUMP SUM PAYMENT FOR PAY ITEM NO. S-618-A, "MAINTENANCE OF TRAFFIC".

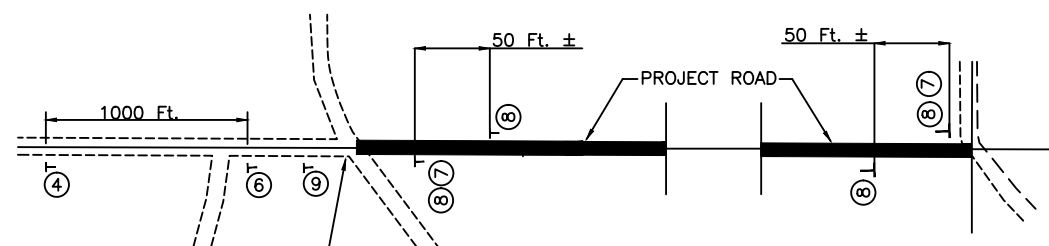
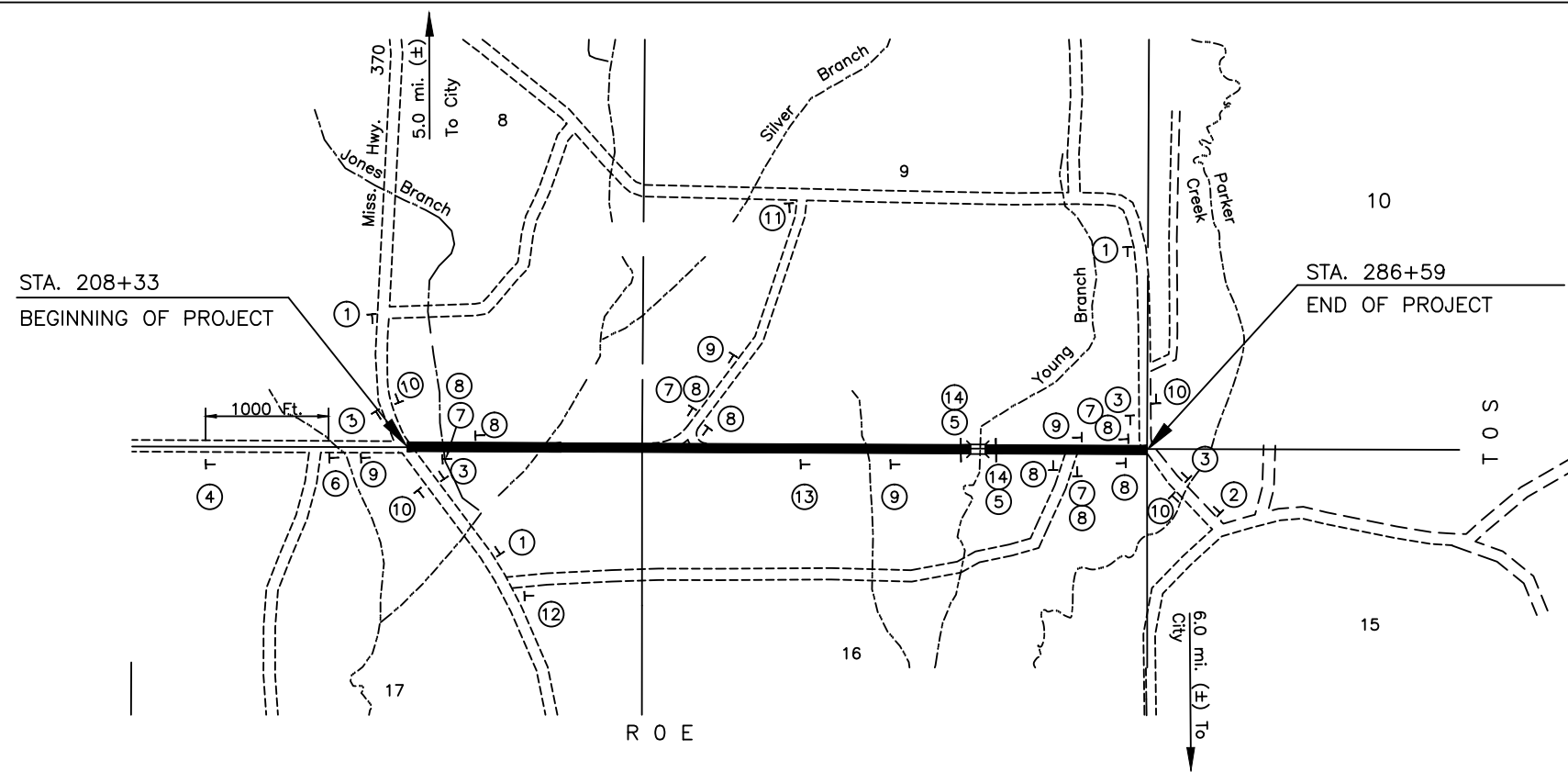
DURING STRIPING OPERATIONS:

4. A SHADOW VEHICLE SHALL BE POSITIONED APPROXIMATELY 300 FEET IN FRONT OF AND BEHIND PAINTING OPERATIONS.
5. THE SHADOW VEHICLE SHALL CARRY A SIGN "ROADWAY STRIPING AHEAD". BOTTOM OF SIGN SHALL BE A MINIMUM OF SIX (6) FEET ABOVE PAVEMENT.
6. A FLASHING YELLOW LIGHT SHALL BE INSTALLED ABOVE TOP OF WARNING SIGNS.
7. A FLASHING YELLOW LIGHT SHALL BE INSTALLED ON ALL VEHICLES USED IN THE MARKING OPERATIONS.

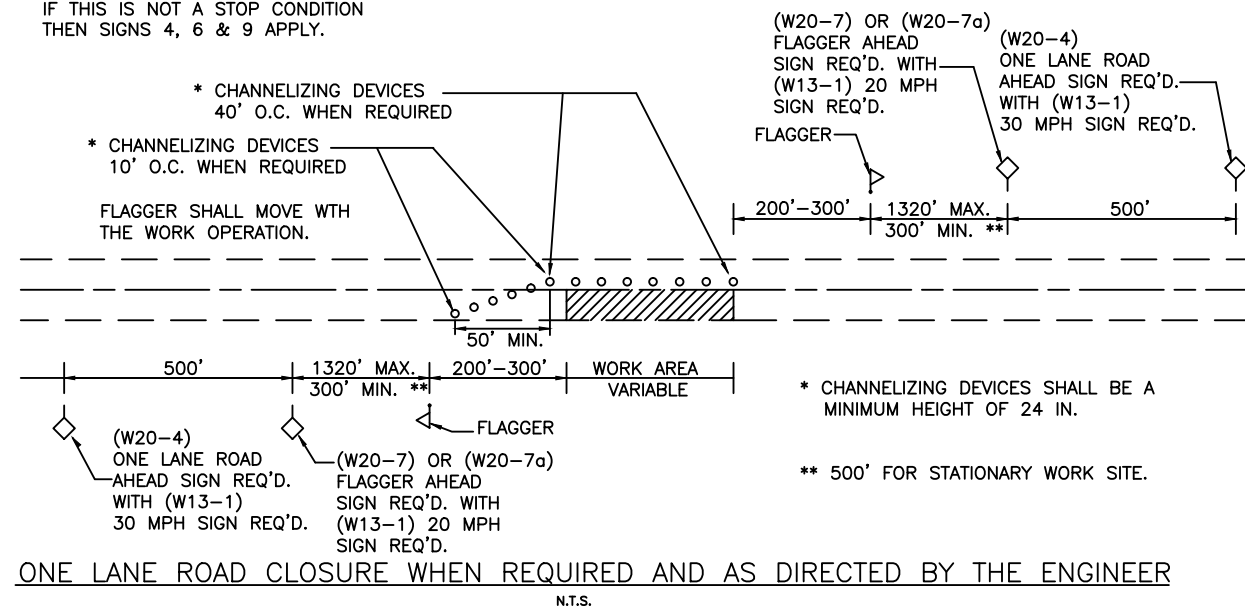
GENERAL NOTES:

1. CONTRACTOR SHALL INSTALL TRAFFIC CONTROL DEVICES SUCH AS CONES, DRUMS, FLASHERS, BARRICADES, SIGNS, ETC., TO SAFELY CHANNEL OR DIRECT TRAFFIC. WHEN NECESSARY, FLAGGERS SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL DEVICES (FLAGGER AHEAD SIGN REQUIRED IN ADVANCE OF FLAGGERS EXCEPT DURING BRIEF PERIODS OR EMERGENCY SITUATIONS.)
2. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WHENEVER NECESSARY, REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED, AND REMOVED IMMEDIATELY THEREAFTER.
3. PAY FOR INSTALLATION, MAINTENANCE AND REMOVAL OF TRAFFIC CONTROL DEVICES WILL BE MADE UNDER PAY ITEM NOS. S-618-A AND S-618-B.
4. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
5. THESE ARE MINIMUM REQUIREMENTS AND IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO MAINTAIN TRAFFIC IN A SAFE MANNER.
6. SEE STANDARD DRAWINGS 259 AND SA-TSP-1 FOR CORRECT PLACEMENT AND INSTALLATION OF BARRICADES AND SIGNS.
7. CONTRACTOR SHALL INSTALL ADVANCE WARNING SIGNS SUCH AS WATCH FOR TRUCKS, TRUCKS TURNING, TRUCKS CROSSING, ETC., AND PLACE FLAGGERS AS DIRECTED BY THE COUNTY ENGINEER ALONG PUBLIC ROADS ON EACH SIDE OF BORROW PIT ENTRANCE OR CROSSING OF PUBLIC ROADS.
8. SEE SPECIAL PROVISION NO. 901-S-618-1 FOR ADDITIONAL CONTRACT REQUIREMENTS.

SCALE = 1" : 1650'



NOTE:
IF THIS IS A STOP CONDITION,
TAKE SIGNS NO. 4 & 6 OFF.
IF THIS IS NOT A STOP CONDITION
THEN SIGNS 4, 6 & 9 APPLY.



SIGN SCHEDULE	
SIGN	DESCRIPTION
①	W20-1 ROAD WORK 1500 FT.
②	W20-1 ROAD WORK 1000 FT.
③	W20-1 ROAD WORK 500 FT.
④	W20-3 ROAD CLOSED AHEAD
⑤	R11-2a ROAD CLOSED
⑥	R11-3a ROAD CLOSED 1000 FT. AHEAD LOCAL TRAFFIC ONLY
⑦	R11-4 ROAD CLOSED TO THRU TRAFFIC
⑧	TYPE III BARRICADE
⑨	W20-3 ROAD CLOSED 500 FT.
⑩	G20-2a END ROAD WORK (Optional)
⑪	R11-3a ROAD CLOSED 3/4 MILES AHEAD LOCAL TRAFFIC ONLY
⑫	R11-3a ROAD CLOSED 1 1/2 MILES AHEAD LOCAL TRAFFIC ONLY
⑬	W20-3 ROAD CLOSED 1500 FT.
⑭	TYPE III BARRICADE ACROSS ENTIRE ROADWAY

DESIGN DATA

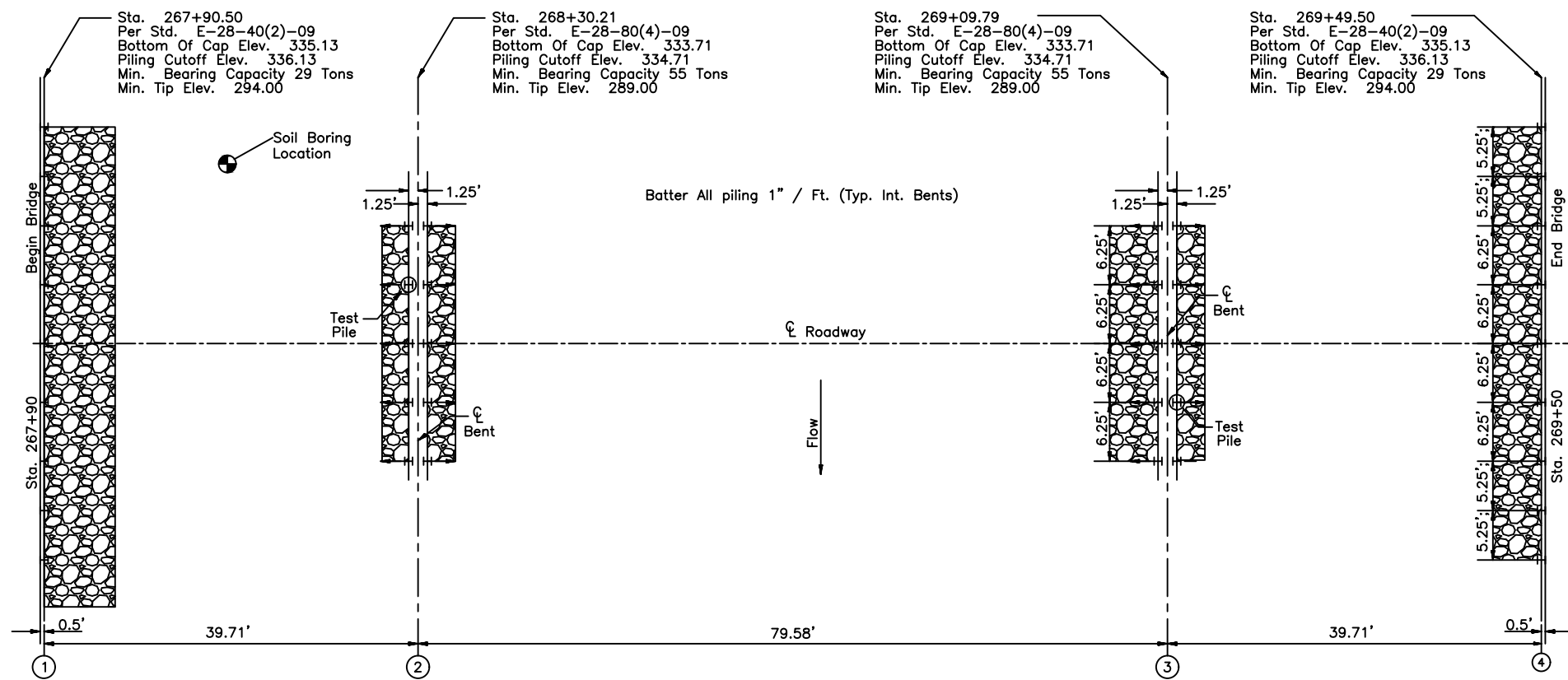
Specifications: AASHTO LRFD Bridge Design Specifications, 4th Edition, 2007 through 2009 Interims

DRAINAGE DESIGN DATA

Drainage Area A = 22.32 Sq. Mi.
 Channel Slope S = 2.43 Ft./Mi.
 Main Channel Length L = 10.76 Mi.
 Q25 = 4130 CFS
 Q100 = 5422 CFS
 Required Opening = 826 Sq. Ft.
 Design Opening = 1094 Sq. Ft.

GENERAL NOTES

- ① Specifications: Current Mississippi Standard Specifications For Office of State Aid Road Construction.
- ② No Unauthorized Change Of Plans Will Be Permitted.
- ③ No Payment Will Be Allowed For Excavation Incidental To Construction Of End Bents Or Pile Encasements.
- ④ All Work For Which No Pay Items Are Provided In The Proposal Will Not Be Paid For Directly And Compensation Therefore Will Be Considered Included In The Prices And Payments For Bid Items.
- ⑤ All Concrete Shall Be Class "A" Concrete.
- ⑥ All Exposed Steel Piling Shall Be Concrete Encased. Encasements Shall Begin A Minimum Of Three Feet Below Finished Ground And Extend To Bottom Of Cap.
- ⑦ Surfaces Shall Be Finished In Accordance With Section S-804.03.19 Of The Specifications.
- ⑧ No Pay Item Is Provided For Foundation Excavation And Channel Excavation For Bridges.
- ⑨ TEST PILE NOTE:
 Contractor shall review project Geotech Borings, submit length of test piles and obtain concurrence of the Project Engineer prior to ordering.
 Test Piles shall be driven to a Minimum Bearing of _____ tons, Minimum Tip Elevation of _____ and at least five feet penetration into the bearing strata.
 Test Piles shall be driven as permanent piles at locations shown on foundation plan and will be paid for as Test Piles only.
 Test Pile data and recommended pile lengths shall be submitted to and approved by the Bridge Engineer before driving of production piles.
 If a Test Pile driven to Cutoff Elevation fails to achieve Test Pile Bearing, the Bridge Engineer shall be notified prior to any further Test Piling being driven.
 After review of the Test Pile Report, the Bridge Engineer shall then determine what further action shall be taken.
 The Minimum Tip Elevation shown on the plans is calculated based upon scour requirement for this project and is not an estimation of pile bearing or pile length for this project.

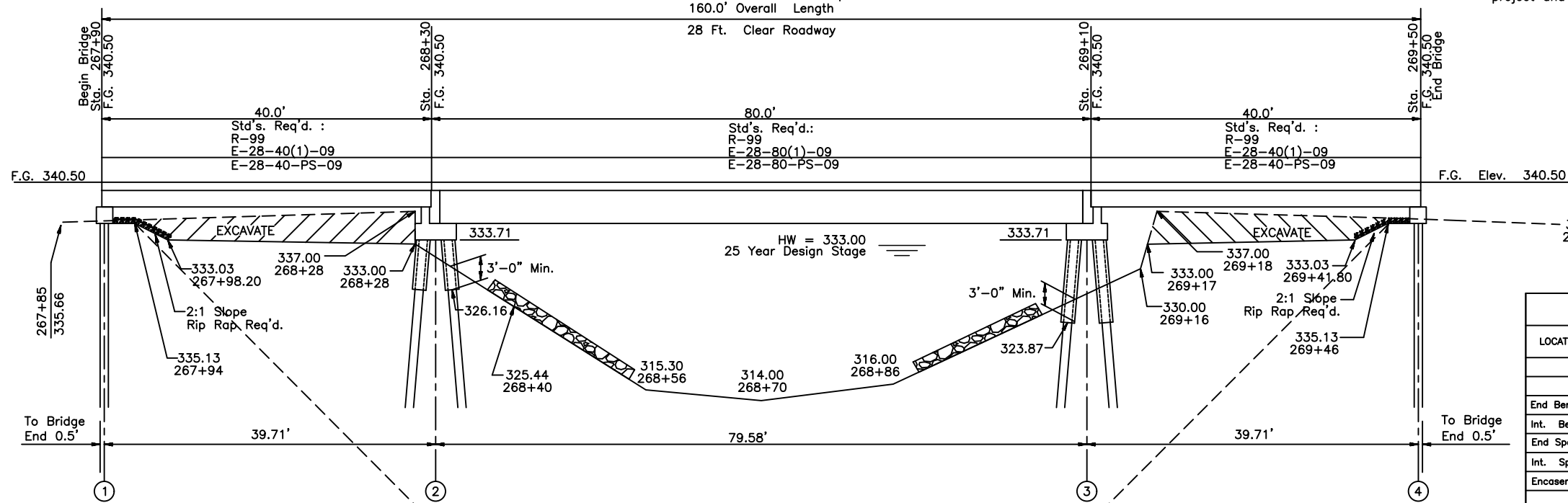


FOUNDATION PLAN

Scale: 1/8" = 1'
 All Piling Shall Be HP 12 X 53 Steel Piling

1 @ 40', 1 @ 80', 1 @ 40'
 Prestressed Concrete Beam Spans
 160.0' Overall Length

28 Ft. Clear Roadway



ELEVATION AT ROADWAY

Scale: 1/8" = 1'

Seismic Zone "1", Site Class "D".

Note: Modify this note as required
 Submit Seismic worksheet with PS&E Plans

Cementitious Material Exposure To Sulfates Is Negligible.

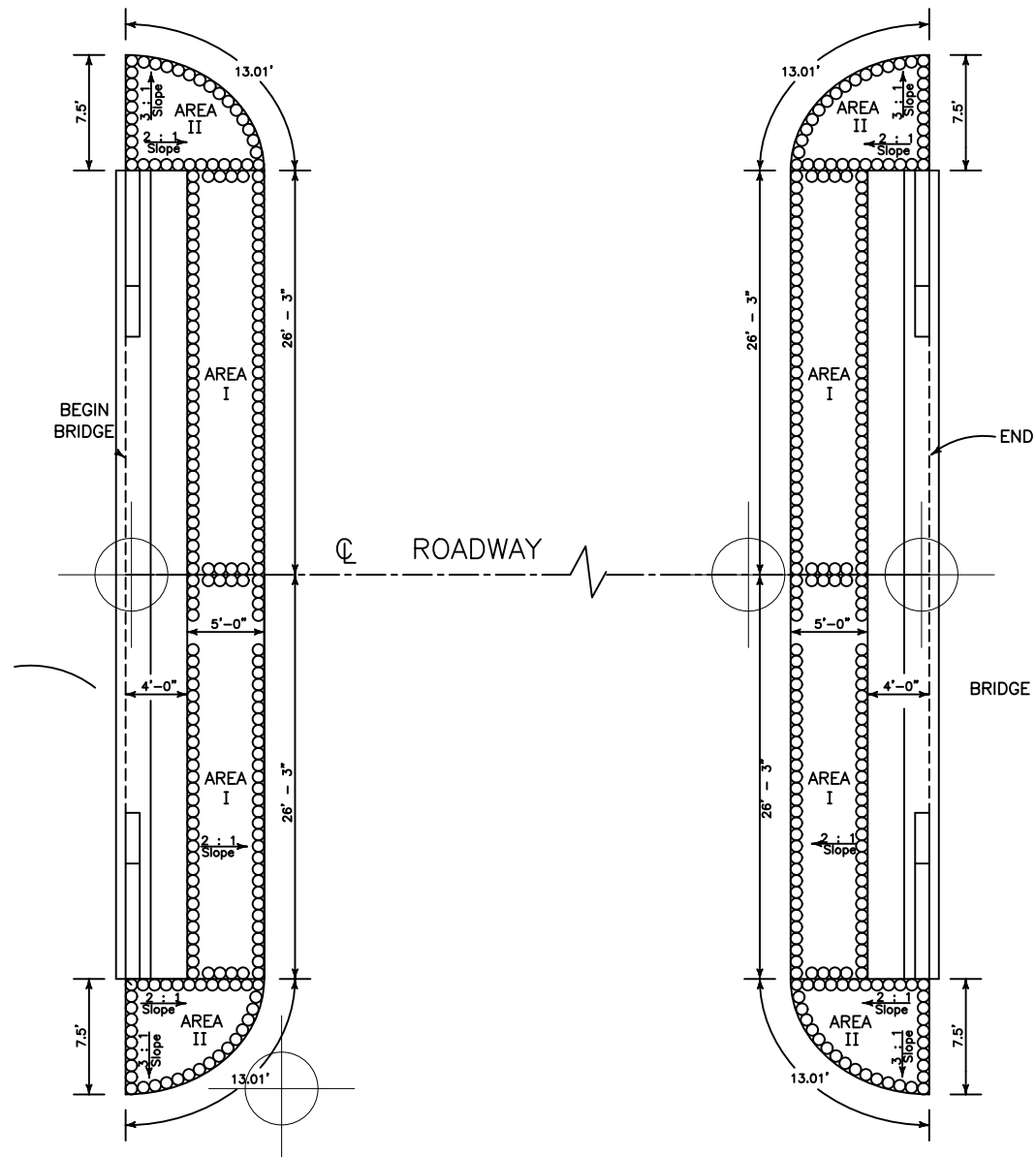
Note: Modify this note as required by conditions for Negligible, Moderate, or Severe Sulfates.
 Submit Sulfate Test Report(s) with PS&E Plans

ESTIMATED BRIDGE QUANTITIES

LOCATION	Concrete Railing	Class "A" Bridge Conc.	Reinforcing Steel	40' Prest. Beam	80' Prest. Beam	12" Steel Piling	16" Preformed Pile Holes	Test Piles	Loose Riprap (300 Lb.)	Geotextile
	Lin. Ft.	Cu. Yd.	Lb.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Each	Tons	Sq. Yd.
End Bents		27.38	3,684			810	100		79	170
Int. Bents		26.88	3,694			900	100	2.0		
End Spans	160.0	67.10	12,708	198.75						
Int. Spans	160.0	64.75	12,489		398.75					
Encasement		10.78	174							
Totals	320.0	196.89	32,749	198.75	398.75	1,710	1,710	2.0	79	170

NOTE:
 Final Quantities For Pile Encasement To Be Determined By Field Measurement.
 Estimated Length For Piling Is Based On Minimum Tip Elevations.
 Final Pay Length Will Be Approved By Bridge Engineer.

Note: Show ground elevation on the boring log



BORING LOG								
PROJECT	[REDACTED]		BORING NO.	BH-1	Ground elev.	0.000 m.		
LOCATION	[REDACTED]		DEPTH (m)	35.00 m.	OBS. GWL. (m)	-4.55 m.		
INSPECTOR	[REDACTED]		START DATE	18-01-62	FINISHED DATE	18-01-62		
SOIL DESCRIPTION	DEPTH (m)	GRAPHIC LOG.	METHOD	SAMPLING RECOVERY	SPT-N B / FT	PL-Wn-LL □ ○ ■	Su t/m ²	γ _t t/m ³
MEDIUM DENSE CLAYEY SAND, GREYISH BROWN. (SC)	21	[Pattern]	SS 4		20	40	4	1.0
VERY STIFF SANDY CLAY, OLIVE GREY. (CL)	22	[Pattern]	SS 5		18	28		
HARD SANDY CLAY, GREYISH BROWN. (CL)	23	[Pattern]	SS 6		47	10		2.00
DENSE TO VERY DENSE SAND WITH SILT, GREYISH BROWN. (SP-SM)	24	[Pattern]	SS 7		50	17		
	25	[Pattern]	SS 8		59/11"	20		
	26	[Pattern]	SS 9		51/11"	19		
VERY DENSE SAND WITH SILT, PALE YELLOWISH BROWN. (SP-SM)	27	[Pattern]	SS 10		59/11"	15		
	28	[Pattern]	SS 11		39	25		2.02
HARD CLAY, PALE BROWN. (CL)	29	[Pattern]	SS 12		44	28		
HARD CLAY WITH SAND, PALE BROWN. (CL)	30	[Pattern]	SS 13		52	28		
HARD CLAY WITH SAND, BROWNISH GREY. (CL)	31	[Pattern]						
END OF BORING 35.00 m.	32	[Pattern]						
	33	[Pattern]						
	34	[Pattern]						
	35	[Pattern]						
	36	[Pattern]						
	37	[Pattern]						
	38	[Pattern]						
	39	[Pattern]						
	40	[Pattern]						
	41	[Pattern]						
	42	[Pattern]						

ABBREVIATIONS :

- ST = Shelby Tube Sample LL = Liquid Limit γ_t = Total Unit Weight
- SS = Split Spoon Sample PL = Plastic Limit SPT = Standard penetration Test
- Wn = Natural Water Content Su = Undrained Shear Strength

UTILITIES OWNERS

MISSISSIPPI COUNTY POWER ASSOCIATION 601-359-5555
100 Bridge Replacement Road, Bridge City, MS 39216

BELLSOUTH TELECOMMUNICATIONS, INC. 601-359-5414
100 Electric Replacement Road, Bridge City, MS 39216

TOWN OF FAULKNER WATER DEPARTMENT 601-359-4844
10 Easy Street, Big City, MS 39216

GENERAL NOTES

Existing Utilities Conflicting With Proposed Construction To Be Adjusted By Others In Accordance With SOP No. SA II - 2 - 8

Elevations Based On MEAN SEA LEVEL Datum (NGVD 83).

Reference B.M. U.S.G.S. B.M. H-36, Elev. 337.68 Ft. Brass Disk Located In The East Wall Of Courthouse In county Seat, Mississippi

Drainage areas Taken From USGS Topographic Maps. Disturbed Area = 14.4 Acres

HYDRAULIC DESIGN

≤ 25 Acres - RATIONAL METHOD

> 25 Acres - "FLOOD FREQUENCY OF RURAL STREAMS IN MISSISSIPPI" 2013 USGS

SHRINKAGE FACTOR

- Unclassified Excavation = 1.35
- Granular Material (Cl. 4, Gp. "B") (LVM) = 1.50
- Granular Material (Cl. 9, Gp. "B") (LVM) = 1.50

DESIGN DATA

- Design Speed = 40 MPH
- Current ADT (2007 Est.) = 110

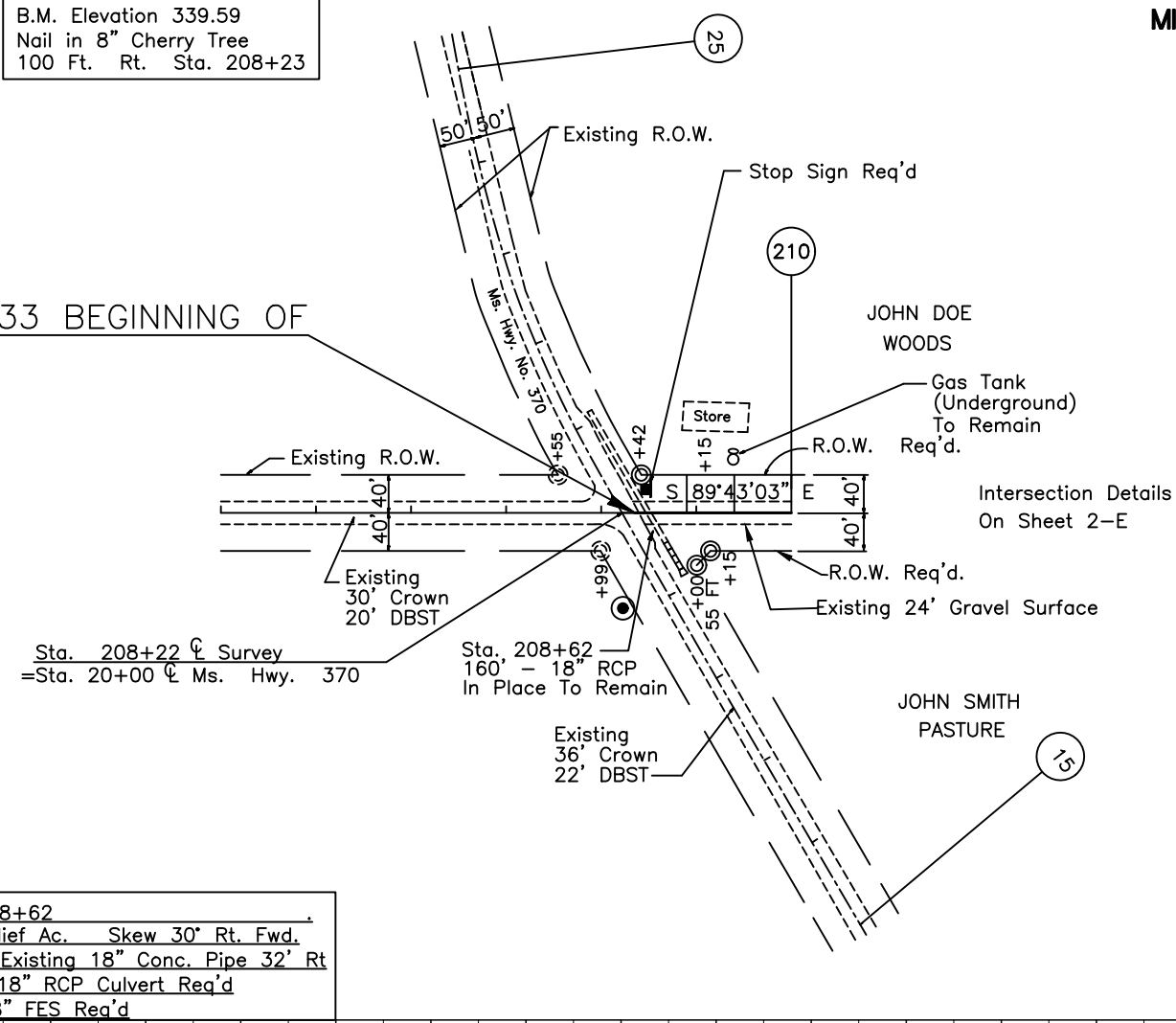
Note: GPS shall be a decimal expressed to a minimum of 5 decimal places. The GPS data may be located in a table format indicating the location and also located on other approved sheets.

METHOD VARIES BASED ON DRAINAGE AREA. Delta Region and Urban Basin use 1991 Method

INSERT YOUR OWN SHRINKAGE FACTORS.

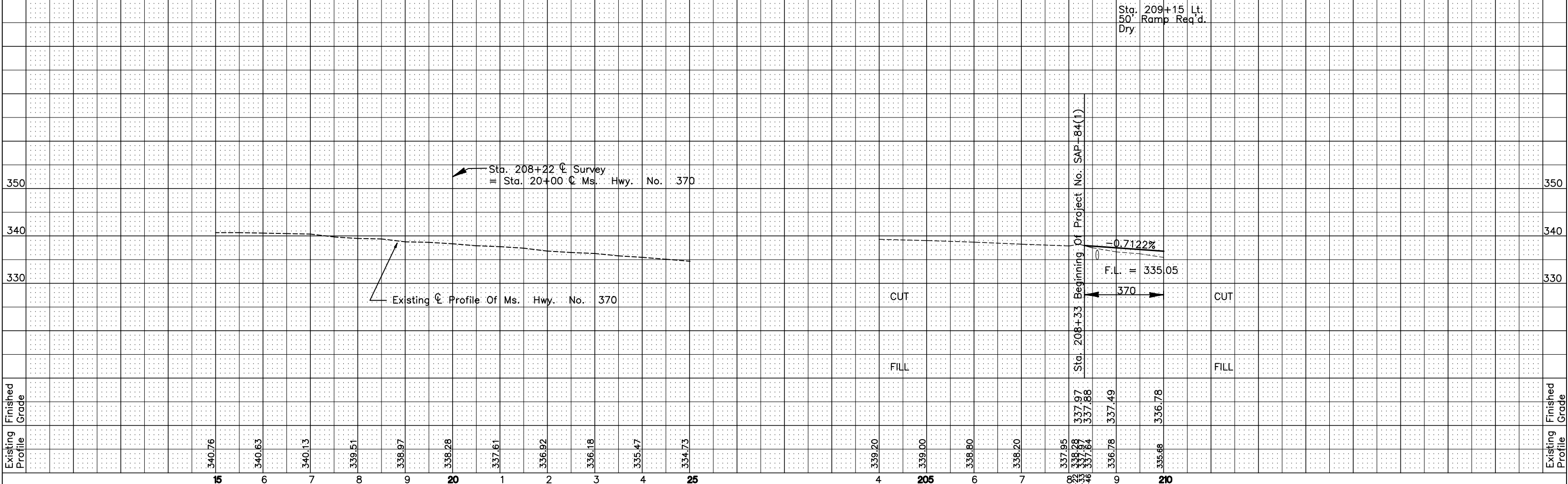
B.M. Elevation 339.59
Nail in 8" Cherry Tree
100 Ft. Rt. Sta. 208+23

STA. 208+33 BEGINNING OF PROJECT



SHEET TOTALS

Excavation	370 Cu. Yd.
Riprap	0 Tons
R.O.W. Markers	3 Each

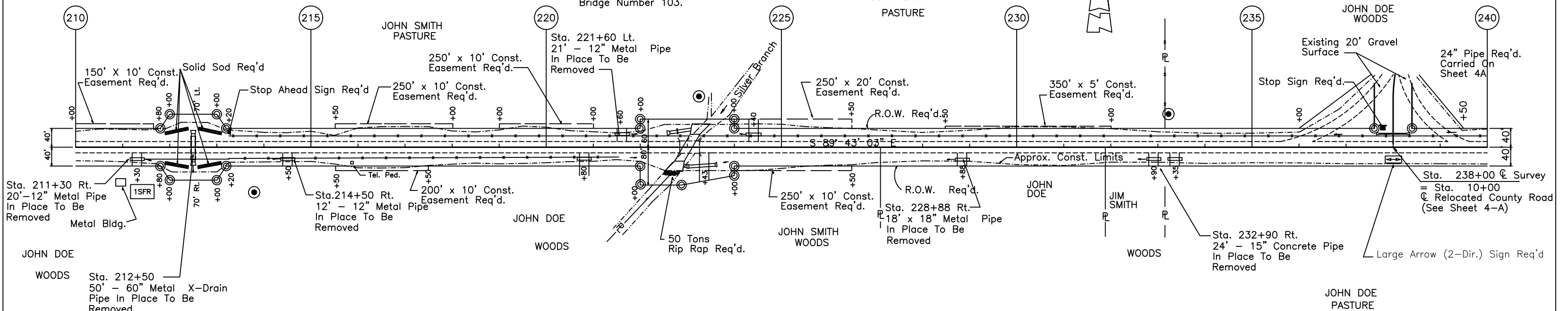


B.M. Elev. 328.21
Nail in 8" Sycamore
100 Ft. Rt. Sta. 213+80

B.M. Elev. 332.04
Nail in 30" Water Oak
100 Ft. Lt. Sta. 223+25

B.M. Elev. 341.08
Nail in 6" Red Oak
60 Ft. Lt. Sta. 233+20

Sta. 222+84 Timber Bridge, 2 @ 21'
With Steel Beams In Place. To Be
Removed Under Pay Item S-202-B.
All Salvagable Material To Remain
Property Of Mississippi County And Be
Stockpiled Within The Right Of Way
For Removal By County Forces.
Bridge Number 103.

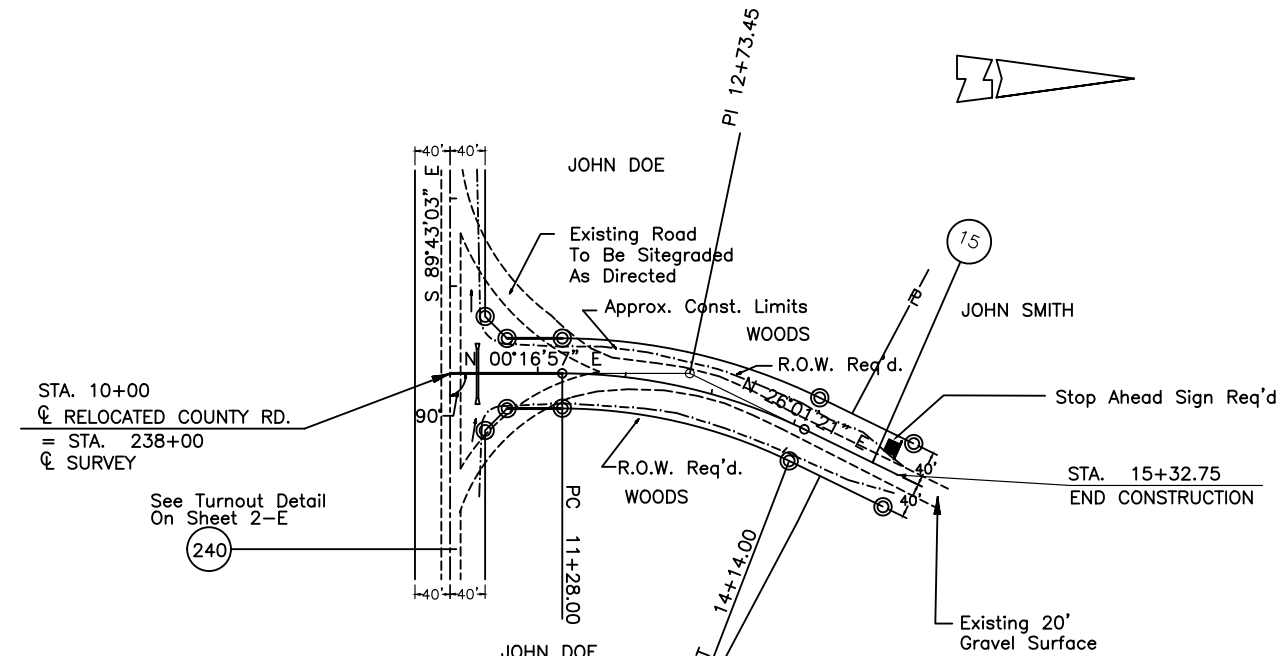


Sta. 212+50
D.A. 252 Ac. Skew None
56' - 88" X 54" Arch Pipe Req'd.
2 - 88" X 54" End Sections Req'd.

Sta. 223+09
D.A. 1336 Ac. Skew 30' Lt. Fwd.
65' - 16" X 8' Box Culvert Req'd.
3:1 Wings Req'd., 10' MAX COVER

SHEET TOTALS
Excavation 7759.0 Cu. Yd.
Riprap 50.0 Ton
R.O.W. Markers 18 Each

Sta.	211+30	214+50	220+80	222+75	223+07	223+43	228+88	233+35	238+00	Sta.																																			
Profile	335.68	334.24	332.69	332.29	333.09	334.74	336.23	337.16	337.80	337.56	337.95	337.61	337.0	335.51	334.49	333.93	334.79	329.61	322.27	323.17	323.87	334.78	332.85	332.45	332.85	333.05	333.45	334.45	335.85	337.05	337.73	338.33	339.13	339.83	340.83	342.28	343.40	343.98	345.78	347.00	347.98				
Finished Grade	336.78	336.11	335.74	335.70	336.00	336.59	337.23	337.80	337.95	337.61	336.87	336.31	336.03	336.00	336.00	336.00	336.00	336.00	336.00	336.00	336.00	336.00	336.00	336.00	336.00	336.00	336.10	336.42	336.94	337.67	338.50	339.33	340.21	341.18	342.25	343.40	344.60	345.80	347.00	347.00					
Excavation																																													
Fill			2520																																										
Cut																																													
Notes	Sta. 211+30 Rt. 20'-12" Metal Pipe In Place To Be Removed	Sta. 212+50 50' - 60" Metal X-Drain Pipe In Place To Be Removed	Sta. 214+50 Rt. 12' - 12" Metal Pipe In Place To Be Removed	Sta. 220+80 Rt. 32'-24" Pipe Req'd. D.A. = Relief	Sta. 222+75 Lt. 56' - 24" Pipe Req'd. 1 - 24" FES Req'd. D.A. = Relief	Sta. 223+07 Rt. 8' - 24" Pipe Req'd. Tie Into JB-1 Tie Into Wing Rt. 1 - Branch Connection Req'd. Sta. 223+12 Rt. JB-1 Req'd.	Sta. 228+88 Rt. Ramp Req'd. 32'-24" Pipe Req'd. D.A. = Relief	Sta. 233+35 Rt. Ramp Req'd. 32'-18" Pipe Req'd. D.A. = Relief	Sta. 238+00 Lt. Turnout Req'd. 56' - 24" Pipe Req'd. 2 - 24" FES Req'd.																																				



TYPICAL SECTION MAY BE SHOWN HERE OR SHOWN ON A SEPARATE SHEET FOLLOWING THE MAINLINE TYPICAL SECTION. IF THE MAINLINE AND THE RELOCATED ROAD(S) ARE THE SAME, THEN SHOW THE LIMITS ON THE MAINLINE TYPICAL SECTION.

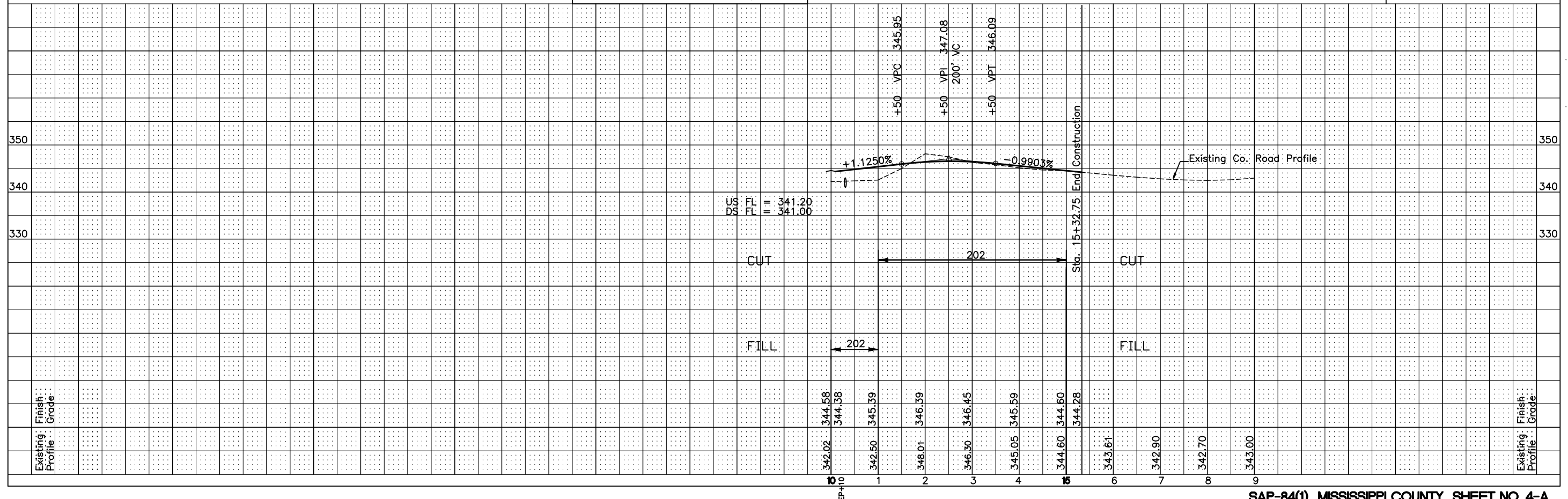
Design Speed = 30 mph
Current ADT (2007 est) = 70

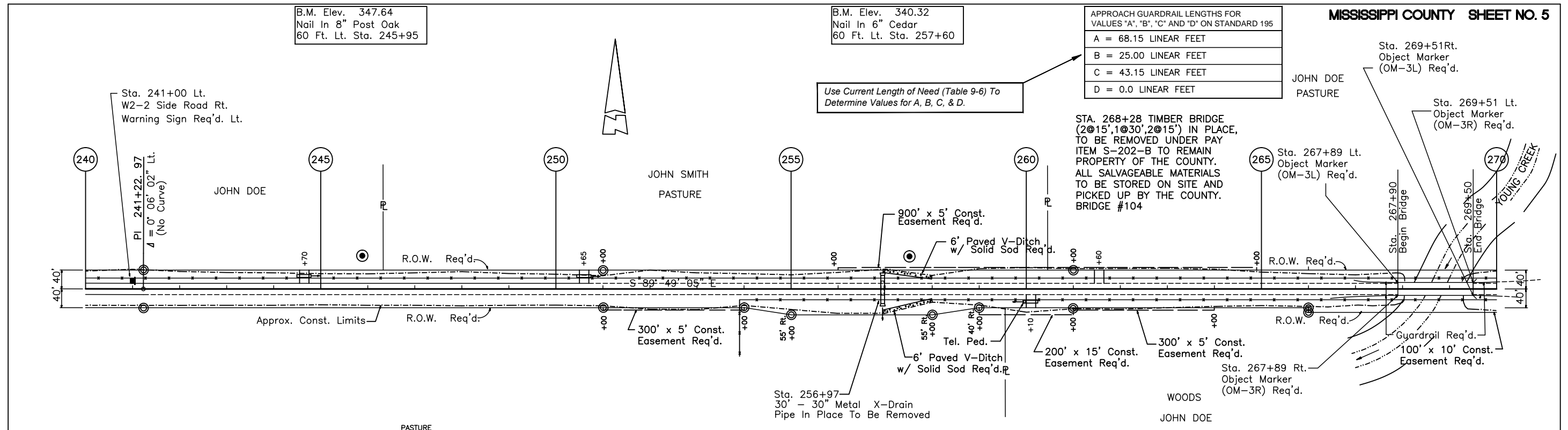
Sta. 10+30 (= Sta. 238+00 LT)
D.A. Relief Ac. Skew None
56' - 24" Pipe Req'd.
2 - 24" FL. End Sections Req'd.

$\Delta = 25^{\circ}44'24''$ Rt.
 $D = 9^{\circ}00'$ Rt.
 $T = 145.45'$
 $L = 286.00'$
 $E = 16.41'$
 $R = 636.62'$
 $SE = 6.4\%$
 $EW = 3.0$
 Extra Area = 122.93 Sq. Yds.

See Sheet 2-A
For Typical Section

SHEET TOTAL	
Excavation	202.0 Cu.Yd.
Riprap	0.0 Ton
R.O.W. Markers	8 Each





APPROACH GUARDRAIL LENGTHS FOR VALUES "A", "B", "C" AND "D" ON STANDARD 195

A	= 68.15 LINEAR FEET
B	= 25.00 LINEAR FEET
C	= 43.15 LINEAR FEET
D	= 0.0 LINEAR FEET

STA. 268+28 TIMBER BRIDGE (2@15', 1@30', 2@15') IN PLACE, TO BE REMOVED UNDER PAY ITEM S-202-B TO REMAIN PROPERTY OF THE COUNTY. ALL SALVAGEABLE MATERIALS TO BE STORED ON SITE AND PICKED UP BY THE COUNTY. BRIDGE #104

Use Current Length of Need (Table 9-6) To Determine Values for A, B, C, & D.

Sta. 256+97

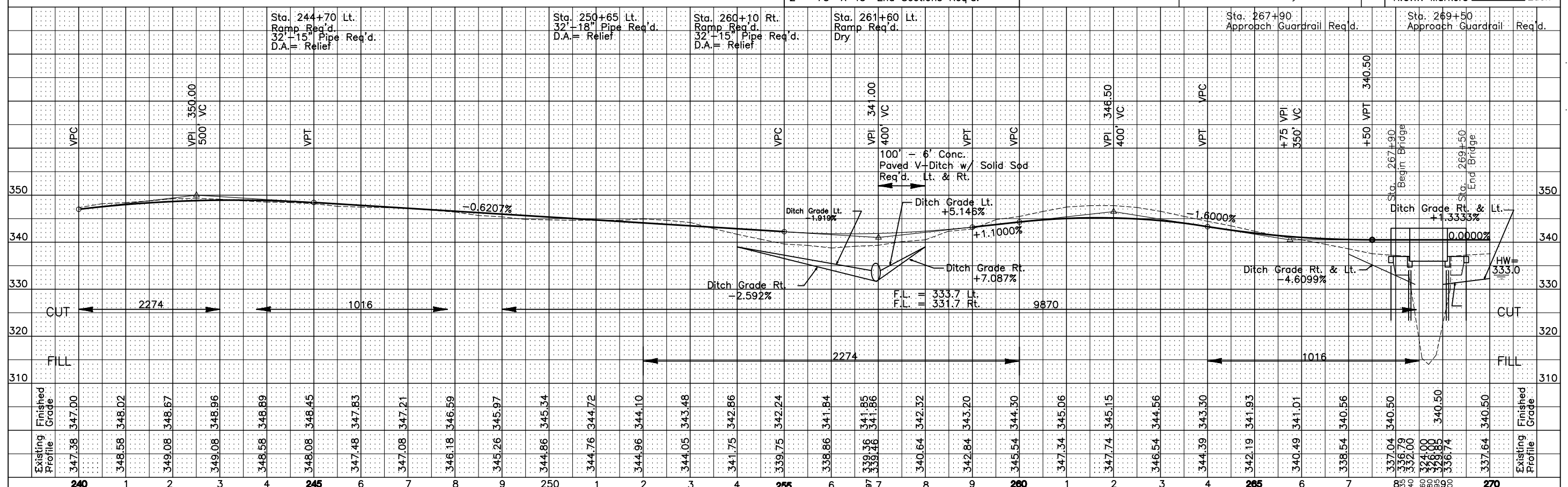
D.A.	.78	Ac.	Skew	None
56' - 73" X 45" Arch Pipe Req'd.				
2 - 73" X 45" End Sections Req'd.				

Sta. 267+90

Bridge	Req'd.
D.A.	= 42.8
1 @ 40', 1 @ 80', 1 @ 40'	
Prestressed Conc. Spans	
28' Clear Roadway	

SHEET TOTALS

Excavation	13,160.0	Cu.Yd.
Riprap	0.0	Ton
R.O.W. Markers	10	Each



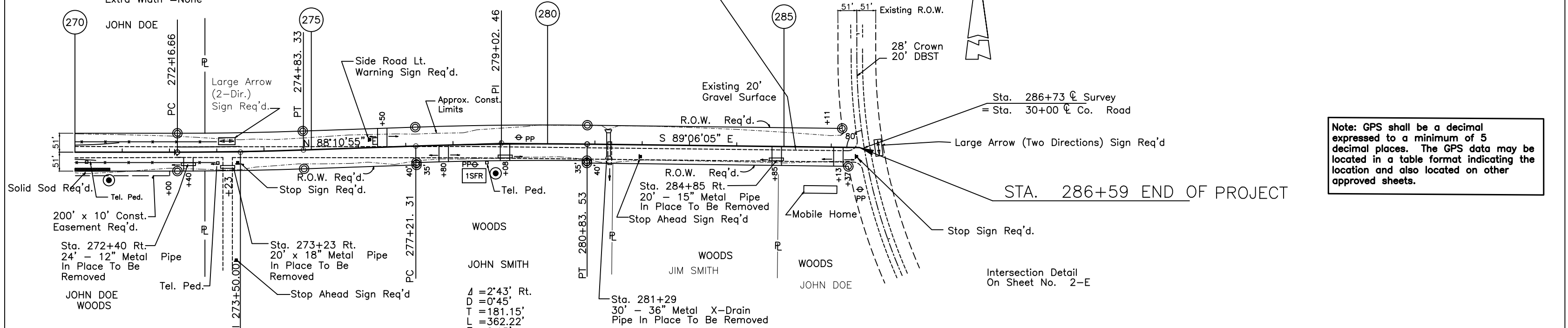
Sta. 244+70 Lt. Ramp Req'd. 32'-15" Pipe Req'd. D.A. = Relief	Sta. 250+65 Lt. 32'-18" Pipe Req'd. D.A. = Relief	Sta. 260+10 Rt. Ramp Req'd. 32'-15" Pipe Req'd. D.A. = Relief	Sta. 261+60 Lt. Ramp Req'd. Dry	Sta. 267+90 Approach Guardrail Req'd.	Sta. 269+50 Approach Guardrail Req'd.
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B.M. Elev. 335.73
Nail In 6" Oak
65 Ft. Rt. Sta. 270+70

B.M. Elev. 340.47
Top Elbow Of 2 1/2" Pipe
50 Ft. Rt. Sta. 279+00

$\Delta = 2'00'$ Lt.
 $D = 0'45'$
 $T = 133.35'$
 $L = 266.67'$
 $E = 1.16'$
 $R = 7639.44'$
 $SE = NC$
Extra Width = None

JIM SMITH



Note: GPS shall be a decimal expressed to a minimum of 5 decimal places. The GPS data may be located in a table format indicating the location and also located on other approved sheets.

Sta. 281+29
D.A. 23 Ac. Skew None
48' - 48" Pipe Culvert Req'd.
2 - 48" End Sections Req'd.

SHEET TOTALS		PROJECT TOTALS	
Excavation	1604.0 Cu.Yd.	Excavation	23,095.0 Cu.Yd.
Riprap	0.0 Ton	Riprap	50.0 Ton
R.O.W. Markers	12.0 Each	R.O.W. Markers	51. Each

