

LENGTH DATA

EXCEPTIONS

NONE

EQUATIONS

NONE

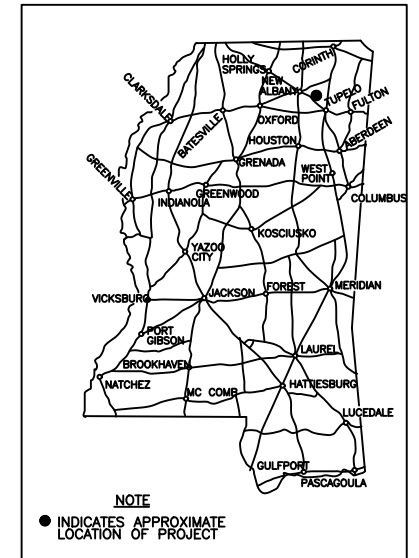
STATE OF MISSISSIPPI
OFFICE OF STATE AID ROAD CONSTRUCTION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
COUNTY HIGHWAY
FEDERAL AID BRIDGE REPLACEMENT PROJECT NO. BR-0084(1)B

COUNTY ROAD NAME
MISSISSIPPI COUNTY

INDEX
FOR INDEX SEE SHEET NO. 2



SITE "A"

LENGTH OF ROADWAY	174.31	FT	0.033	MI
LENGTH OF BRIDGES	25.69	FT	0.004	MI
LENGTH OF PROJECT (NET)			0.037	MI
LENGTH OF EXCEPTIONS	0.00	FT	0.000	MI
LENGTH OF PROJECT (GROSS)			0.037	MI

SITE "B"

LENGTH OF ROADWAY	940.00	FT	0.178	MI
LENGTH OF BRIDGES	160.00	FT	0.030	MI
LENGTH OF PROJECT (NET)			0.208	MI
LENGTH OF EXCEPTIONS	0.00	FT	0.000	MI
LENGTH OF PROJECT (GROSS)			0.208	MI

TOTALS

LENGTH OF ROADWAY	0.211	MI
LENGTH OF BRIDGES	0.034	MI
LENGTH OF PROJECT (NET)	0.245	MI
LENGTH OF EXCEPTIONS	0.000	MI
LENGTH OF PROJECT (GROSS)	0.245	MI

SITE "A" REPLACES BRIDGE NUMBER WITH SA84-A103
SITE "B" REPLACES BRIDGE NUMBER WITH SA84-A104

NOTE TO DESIGNER

SAMPLE PLAN DATA
Type of Project: FEDERAL AID BRIDGE REPLACEMENT
Date of Issue: FEBRUARY 2023

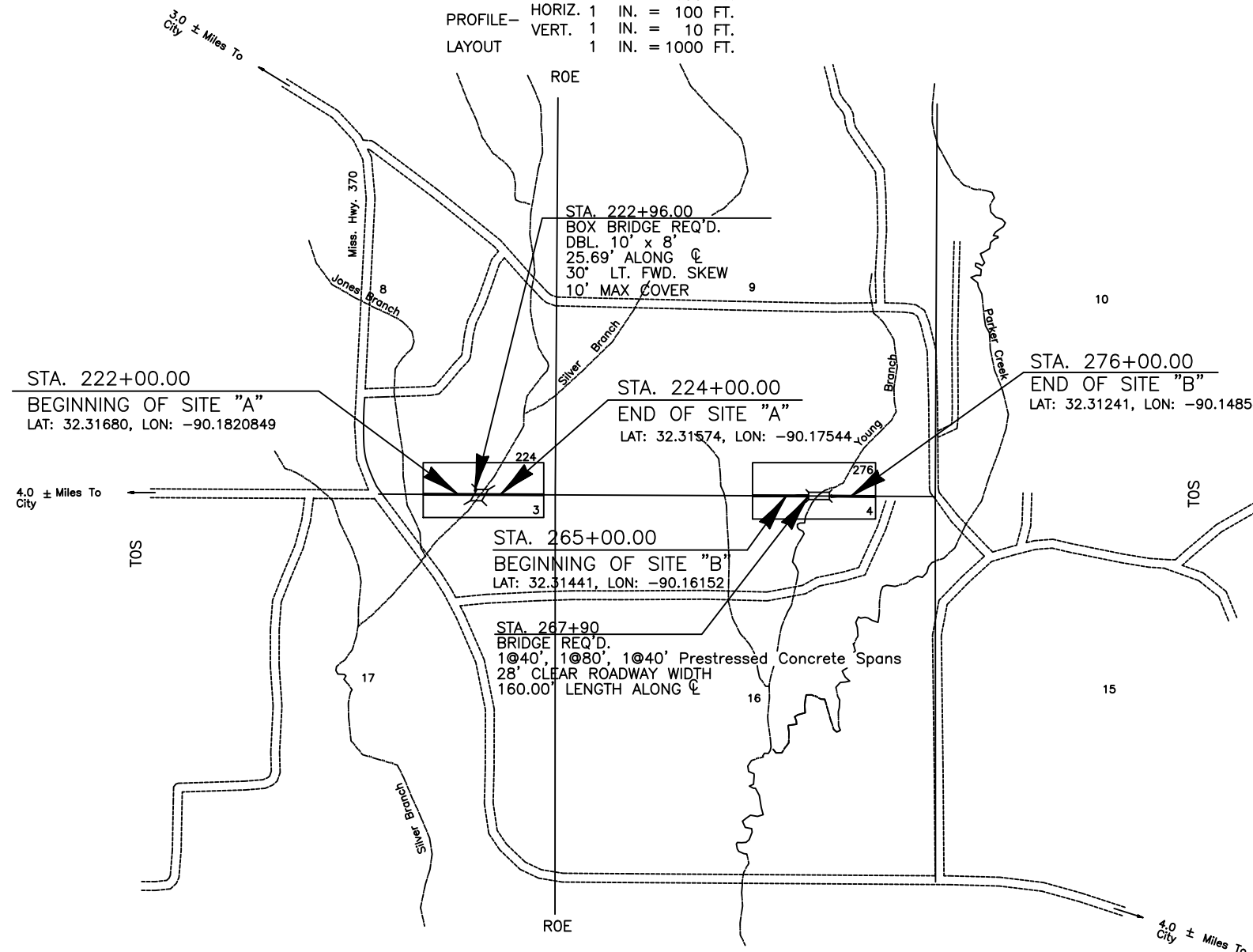
Notes to Designer are in italics throughout these sample plans and should not be included in project plans.

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.

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AND THE FEDERAL HIGHWAY ADMINISTRATION ARE MADE A PART HEREOF FULLY AND COMPLETELY AS IF ATTACHED HERETO, EXCEPT WHERE SUPERSEDED BY THE SPECIAL PROVISIONS, OR AMENDED BY REVISIONS

SCALES

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



PREPARED BY _____
COUNTY ENGINEER DATE

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
APPROVED
STATE AID ENGINEER DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
APPROVED
EXECUTIVE DIRECTOR DATE

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+84.00)	1		Unit
S-202-B	Removal Of Bridge (Sta. 268+22.00)	1		Unit
S-203-A	Unclassified Excavation (FM)	2,301		Cu. Yd.
S-203-E1	Borrow Excavation (FME) (Contractor Furnished) (Class 9)	3,431		Cu. Yd.
S-304-A	Granular Material (LVM) (Cl. 5, Gp "B")	3,380		Cu. Yd.
S-308-A-1	Portland Cement	1,042		CWT
S-308-B-1	Soil-Cement Water Mixing (Multiple Pass Mixers)	3,079		Sq. Yd.
S-410-C	Emulsified Asphalt, Grade CRS-2P	2,119		Gal.
S-410-D	Coarse Aggregate Cover Material, Size 56, Crushed Stone	55		Cu. Yd.
S-410-E	Seal Aggregate Cover Material, Size 7, Crushed Stone	29		Cu. Yd.
S-410-F	Blotter Material	11		Cu. Yd.
S-603-C-A	18" Reinforced Concrete Pipe, Class III	32		Lin. Ft.
S-606-B	Guardrail, W-Beam	275		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)	17		Each
S-618-A	Maintenance Of Traffic	Lump Sum		Lump Sum
S-618-B	Additional Construction Signs	0.0		Sq. Ft.
S-621-C	4" Wide Thermoplastic Edge Stripe (Continuous White) (60 mils)	0.493		Mi.
S-621-D	4" Wide Thermoplastic Traffic Stripe (Skip Yellow) (90 mils)	0.246		Mi.
S-630-C	Reflectorized Traffic Object Marker (Encapsulated Lens) (Type 3)	4		Each
EROSION CONTROL ITEMS				
901-S-212-A	Agricultural Limestone	2.5		Ton
S-212-B	Commercial Fertilizer (13-13-13)	1.3		Ton
S-212-F	Ammonium Nitrate	0.24		Ton
S-214-A	Seeding	1.25		Acre
S-215-A	Vegetative Materials For Mulch	2.5		Ton
S-226-A	Solid Sodding	511		Sq. Yd.
S-229-A	Portland Cement Concrete Paved Ditch	8.41		Cu. Yd.
S-233-A	Temporary Silt Fence	945		Lin. Ft.
237-A	Wattles, 20 inch	240		Lin. Ft.
S-815-A	Loose Riprap, 100 Lb.	50		Ton
S-815-A	Loose Riprap, 200 Lb.	195		Ton
BOX BRIDGE ITEMS				
Site "A"				
901-S-804-B	Box Bridge Concrete, Class "BB"	231.37		Cu. Yd.
S-805-A	Reinforcement	32,587		Lb.
BRIDGE ITEMS				
Site "B"				
S-803-A	Test Piles	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" Pre-Formed Pile Hole	200		Lin. Ft.
901-S-804-A	Bridge Concrete, Class "A"	197		Cu. Yd.
901-S-804-C	40' Prestressed Concrete Beam, Type I+2	397.50		Lin. Ft.
901-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 Lbs.	79		Ton
S-815-E	Geotextile Under Riprap, Type V Non-Woven, AOS < 0.21-0.43	170		Sq. Yd.



PREPARED BY _____ DATE _____
COUNTY ENGINEER

INDEX

SHEET NO.	TITLE
1	Title Sheet
2	Quantity & Index Sheet
2-A	Typical Section Sheet
2-B	Schedule Sheet
2-C	Bridge Detail
2-D	Striping Detail & Traffic Sign Sheet
2-E	Traffic Control Plan - Phase I
2-F	Traffic Control Plan - Phase II
2-G	Traffic Control Plan - Phase III
2-H	Erosion Control and Sediment Plan
I	Bridge Layout
II	Bridge Riprap and Soil Boring Detail Sheet
SA-PSM-1	Pavement Striping & Marking Details
SA-TSP-1	Traffic Sign Placement
SA-RW-1	Right-Of-Way Markers
6101	Typical Temporary Erosion Control/ Sediment Control Applications
6118	Temporary Stream Diversion
6104	Typical Temporary Erosion Control Measures (Silt Fence, Hay Bales & Brush Barrier)
6201	Guard Rail: "W" Beam (Wood Posts)
6202	Guard Rail: Thrie Beam (Wood Posts)
6203	Guard Rail: "W" Beam (Steel Posts)
6210	Guard Rail: Bridge End Section Type "I" (Wood Posts)
6211	Guard Rail: Bridge End Section Type "I" (Steel Posts)
6215	Guard Rail: Typical Installation At Bridge Approaches For 2-Lane, 2-Way Highway
6314	Typical Installations and Details of Delinators and Distance Reference Signs
6358	Highway Sign and Barricade Details for Construction Projects
6403	Rural Driveways
6501	Pipe Culvert Installation
7005	Box Culvert Drawing-Barrel Collar, Locations-Normal And Skewed Culverts, Group I Diagram
7118, 7119, 7120	Barrel Details - Double Cell Height - 8 Ft., Span 16-32 Ft.
7185, 7186	Wings With 3:1 Slope For Basic Culvert Drawing, Double Cell, 30 Deg. Skew Details, Heights 6-12 Ft Spans 12-40 Ft
7190, 7191, 7192	Wings With 3:1 Slope For Basic Culvert Drawing, Double Cell, 30 Deg. Skew Details, Heights 8 Ft Spans 16-32 Ft
E-28-40(1)-09	40' Prestressed Concrete Beam Span
E-28-40-PS-09	40' Prestressed Concrete Beam Type I + 2
E-28-80(1)-09	80' Prestressed Concrete Beam Span
E-28-80-PS-09	80' Prestressed Concrete Beam Type III
E-28-40(2)-09	End Bent - 40' Prestressed Conc. Beam Span
E-28-80(4)-09	Dbl. Pile Bent - 40, 60, & 80 Ft. Prestressed Beam Spans
R-99	Railing Details
3	Plan/Profile Sheet, Site "A"
4	Plan/Profile Sheet, Site "B"

- ① Vandal Resistant Hardware Required.
 ② 200.0 Sq. Yds. Solid Sod To Be Used As Directed By The Engineer.
 ③ Contractor shall be responsible for proper erosion control maintenance
 ④ Mississippi Standard Specifications for Road and Bridge Construction, 2017 Edition
 ⑤ See Erosion and Sediment Control Plan Sheet No. 2-H for Use of 100 Lb. Riprap
 ⑥ See Erosion and Sediment Control Plan Sheet No. 2-H for Use of 20 tons of 200 Lb. Riprap
 ☞ Cementitious Material Exposure to Sulfates Is Negligible.
 ☞ Cementitious Material Exposure to Sulfates Is Moderate/Seawater.
 ☞ Cementitious Material Exposure to Sulfates Is Severe.

Cementitious Material Exposure to Sulfates Is Negligible.

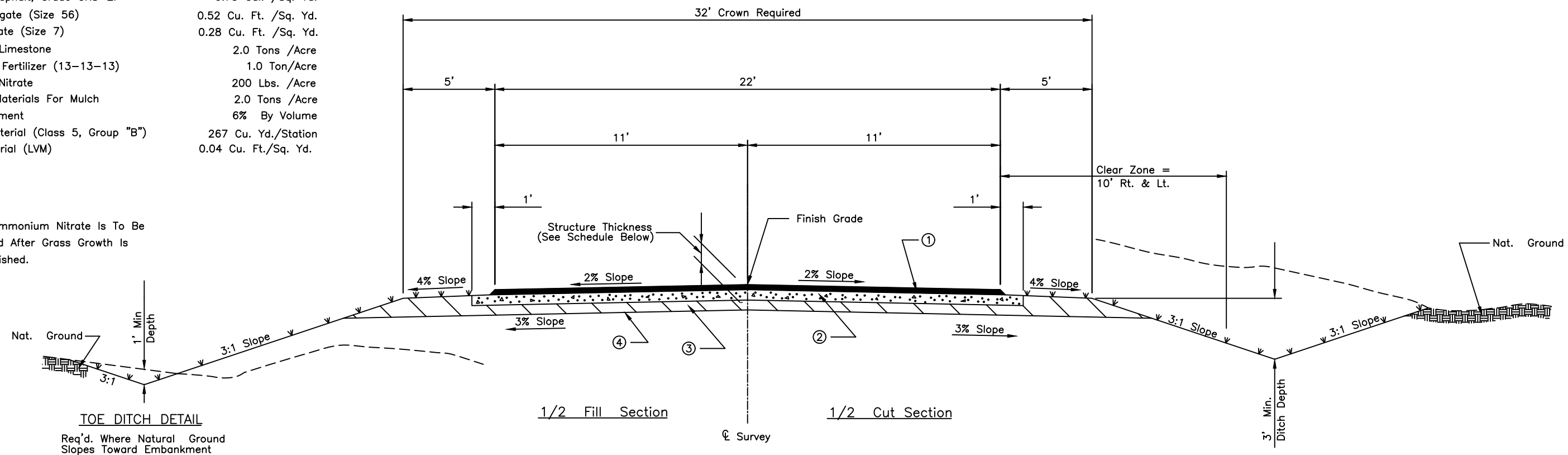
If sulfates are present on the project, add a "bubble" note (S), (M), (N), to each concrete pay item showing required cementitious material per 901-S-701.01.

If using concrete pilings for prestressed bridge use pay item S-803-C.

RATES OF APPLICATION USED FOR ESTIMATING QUANTITIES

ITEM	RATE
Emulsified Asphalt, Grade CRS-2P	0.75 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	6% By Volume
Granular Material (Class 5, Group "B")	267 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.



- ① 22' Wide Double Bituminous Surface Treatment Required
- ② Soil-Cement-Water Mixing Req'd. (24' Wide) Portland Cement Shall Be Incorporated Into The Top 6" Of Granular Material. Cement Percentage (6% By Volume Estimated), Proper Moisture Content And Approximate Density To Be Determined By An Approved Lab. From Soil Analysis Taken From Granular Material In Place On Roadway.
- ③ Granular Material (Class 5, Group B) Required
- ④ Subgrade

FLEXIBLE PAVEMENT DESIGN

DATA FOR PAVEMENT DETERMINATION
(2020) ADT = 380 Current
(2025) ADT = 405 n Year
(2030) ADT = 494 Design
DHV = 74
D = 50 % of DHV
T (Total) = 10 % of ADT
18k (Flex) = 675/1000
CBR = 6

REQUIRED STRUCTURE NUMBER	
2030	2025
ADL 15	ADL 13
CBR 6	CBR 6
SSV 3.98	SSV 3.98
PT 2.5	PT 2.5
SN 2.67	SN 2.08

TYPICAL GRADE, DRAIN, BASE & SURFACING SECTION

CEMENT TREATED GRANULAR BASE
Sites "A" and "B"
N.T.S.

GENERAL NOTES

Erosion Control Measures To Be Applied On Indicated Area (VVV) As Per Seasonal Limitations.
Clearing And Grubbing Of Construction Easements Necessary For Constructing Slopes Along The Roadway Shall Be Considered As Normal Right-Of-Way And Paid For By Lump Sum.
Before Final Acceptance, 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
215+00.00 - 232+00.00 & 260+00.00 - 276+00.00	6	3.98	8	2.08	9.0	0.90	6.0	1.20	0	0	15.0	2.10

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 BRIDGE SCHEDULE

Sheet No.	Station	Size	Length along the C feet	State Standards	Length feet	Class "BB" Conc. yd ³	Reinf. lb.	"T1" in.	"V1" in.	"T2" in.	"V2" in.	"Z" feet	Remarks
3	222+96.00	Dbl. 10' x 8'	25.69	7005	70	231.37	32,587	10.5	9	12.5	9	22.0	30' Lt. Fwd.
				7118, 7119, 7120									3:1 Wings
Total				7185, 7186, 7190, 7191, 7192		231.37	32,587						10' MAX COVER

CONC. PAVED DITCH SCHEDULE

Sheet No.	Station - Station	Side	Width feet	Length feet	Toe Wall	Total
3	223+00.00 - 224+00.00	RT.	6.0	100.0	0.60	8.41
TOTALS						8.41
UNITS						cubic yards

CULVERT HYDRAULIC DESIGN SUMMARY

SH. NO.	STATION	D. A. Sq. Mi.	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 Ft. ³ /s	HIGH WATER ELEVATION			
						HW/D	HW (DEPTH)		HW (ELEV.)	HW/D					HW (DEPTH)	HW (ELEV.)
3	222+96.00	3.07	Dbl. 10' x 8'	322.0	1209	1.17	9.35	331.35	1680	1.44	11.51	333.51	1927	1825	334.50	S= 11.02 Ft./Mi. L= 3.37 Mi.

Note: S & L values only required for Delta region or Urban (1991)

PIPE SCHEDULE

STATION	SHEET	CONC. PIPE, CLASS III			REMARKS
		18"			
273+40.00	4	32			SIDEDRAIN RT.
TOTALS		32			
UNITS	feet	feet			

Portland Cement Exposure To Soluble Sulfates Is Negligible At The Box Bridge.

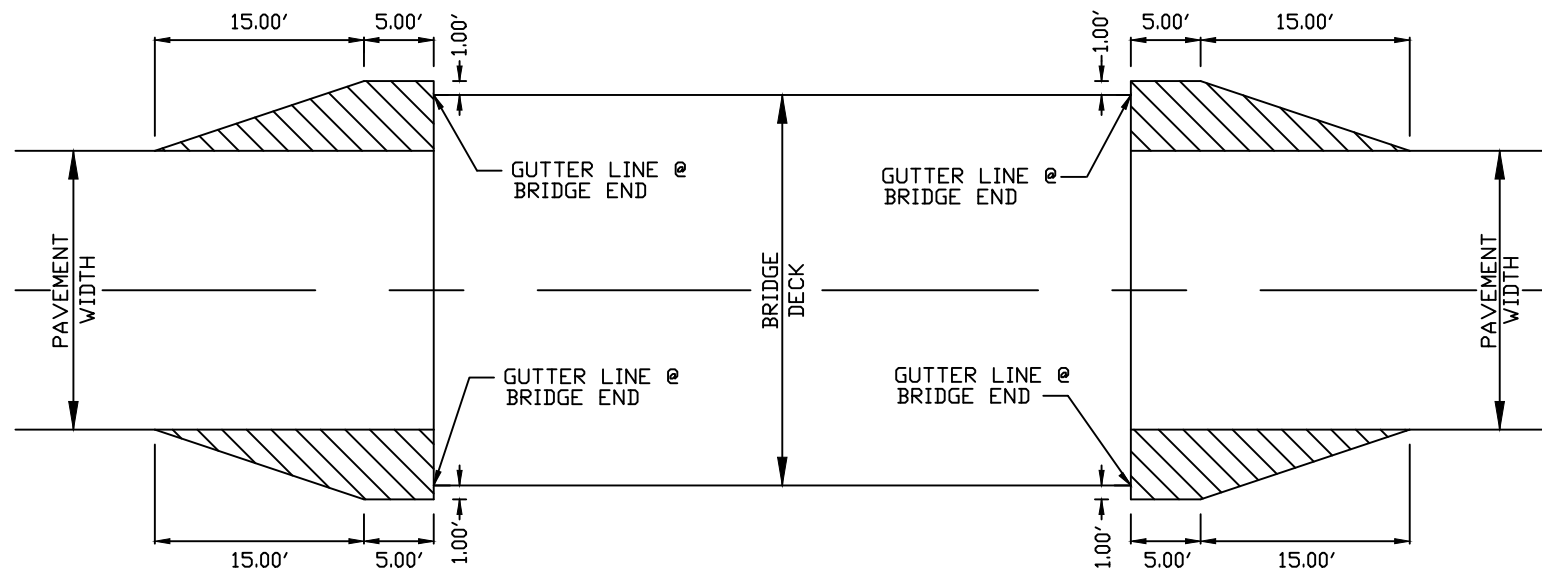
Note: Modify this note as required by conditions for Negligible, Moderate/Seawater, or Severe Sulfates per 901-S-701.01.
Note: Submit Sulfate Test Report(s) with PS&E Plans

SOLID SOD SCHEDULE

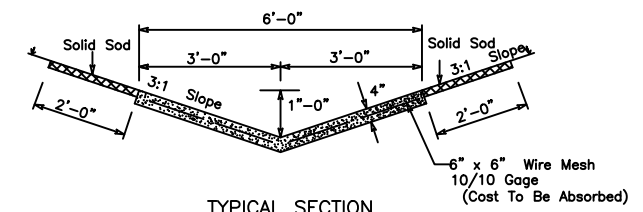
Sheet No.	Station - Station	Side	Width feet	Length feet	Total
3	223+00.00 - 224+00.00	RT.	4.0	100.0	44.40
4	269+50.00 - 273+00.00	LT.	6.0	350.0	233.45
4	269+50.00 - 273+00.00	RT.	6.0	350.0	233.45
TOTALS					511.30
UNITS					square yards

BASE AND SURFACING SCHEDULE

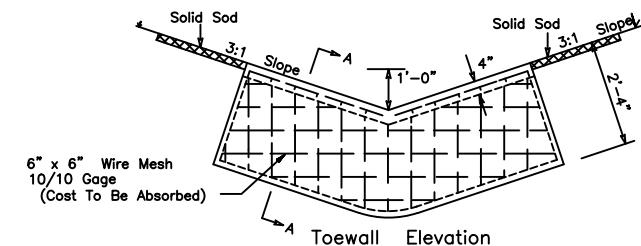
Area	BASE			SURFACING			Blotter Material	
	Granular Material Class 5, Group "B"	Portland Cement	Soil-Cement Water Mixing	Surfacing Area	Emulsified Asphalt CRS-2P	Cover Aggregate Size 56		Cover Aggregate Size 7
Roadway	3,043	1,029	3,040	2787	2090	53.7	28.9	11
Ramps (1)	16	5	14	14	10	0.3	0.1	0
Bridge Approaches	321	8	25	25	19	0.5	0.3	0
Project Total	3,380	1,042	3,079	2,826	2,119	54.5	29.3	11
Units	cubic yards	cwt	square yards	square yards	gallons	cubic yards	cubic yards	cubic yards



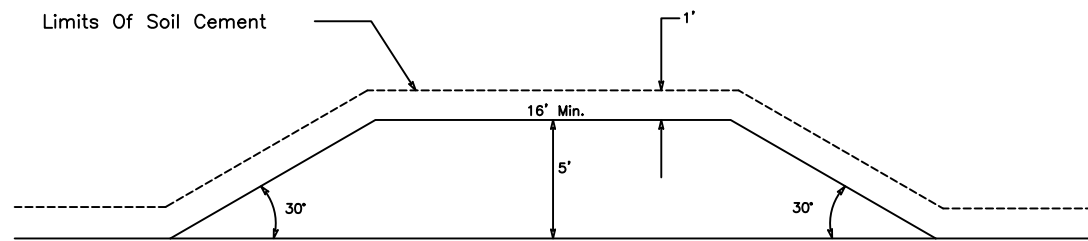
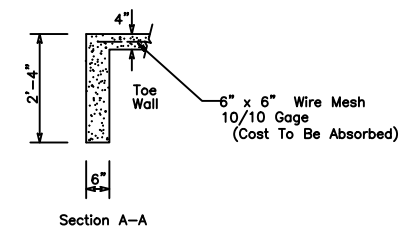
PAVING TREATMENT AT BRIDGE ENDS
Extra Area 25 Sq. Yd.



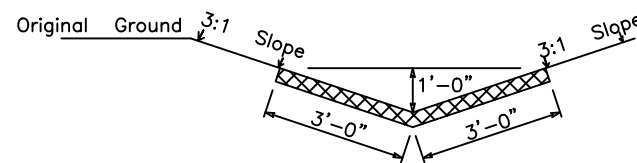
TYPICAL SECTION OF CONC. PAVED "V" DITCH
0.0781 CU. YD. CONC. PER LIN. FT.
0.444 SQ. YD. SOLID SOD PER LIN. FT.



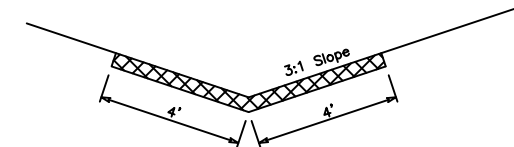
Toewall Elevation
0.30 Cu. Yd. Per Toe Wall
Req'd. U.S. & D.S. Of Paved Ditch



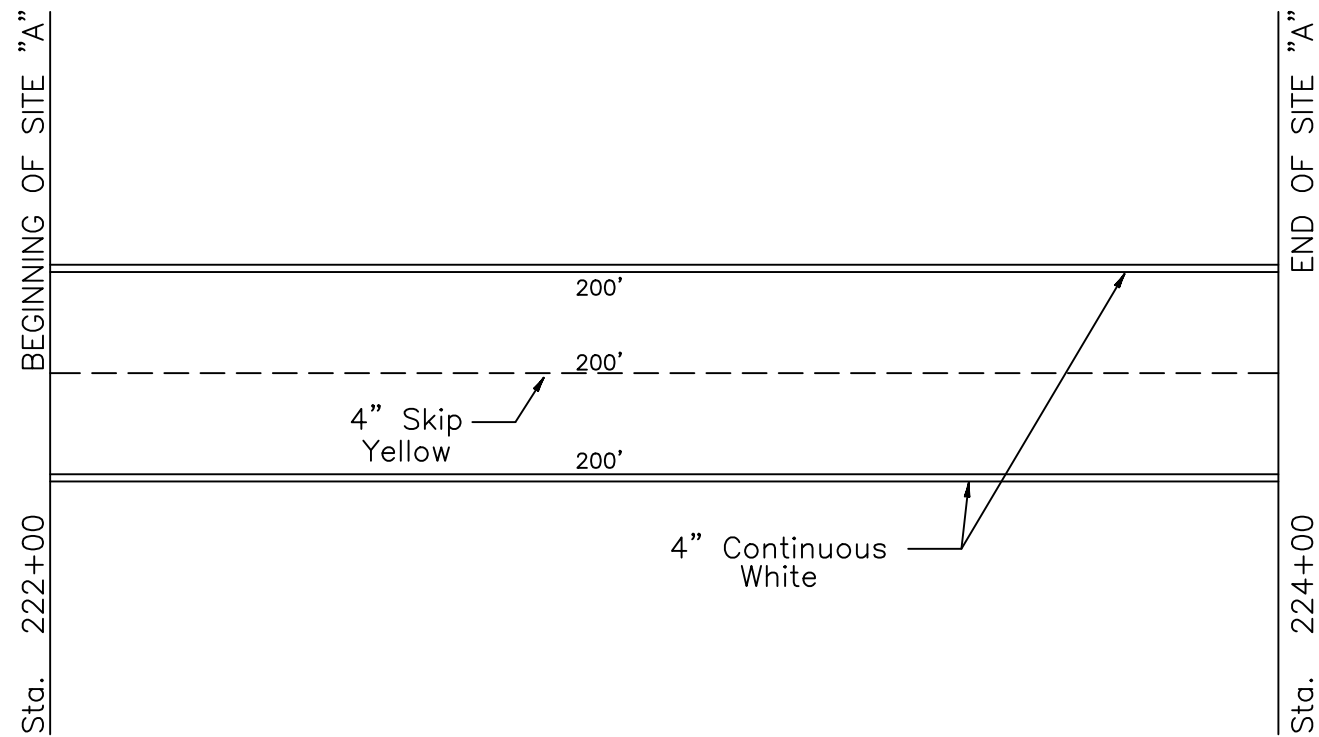
TYPICAL PAVED APRON DETAIL
13.7 SQ. YD. EXTRA AREA PER 16' RAMP
(See Standard No. 6403 For Ramp Details)



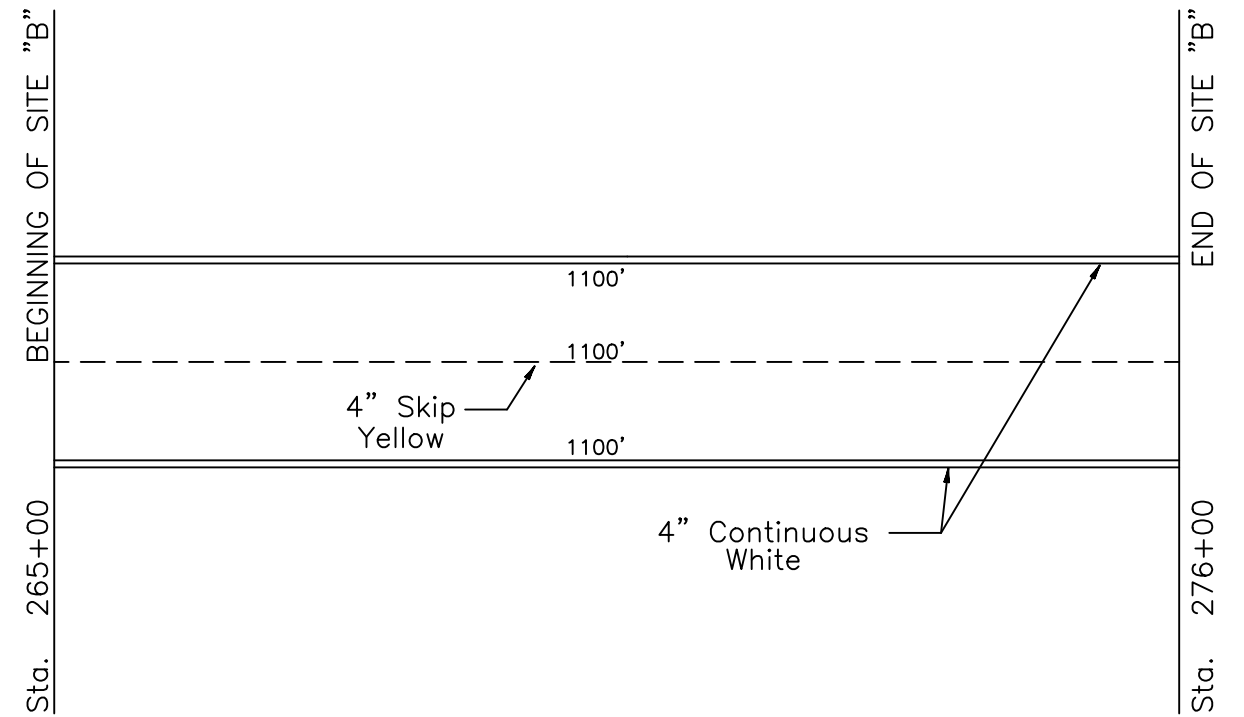
SOLID SOD DITCH DETAIL
0.667 SQ. YD. SOLID SOD PER LIN. FT.



RIPRAP DITCH DETAIL
0.44 TONS 200# RIPRAP PER LIN. FT.



SITE "A"



SITE "B"

TRAFFIC SIGNS REQ'D

Station	Type	Remarks	Side
267+89.00	OM-3L	Object Marker	Lt.
267+89.00	OM-3R	Object Marker	Rt.
269+51.00	OM-3R	Object Marker	Lt.
269+51.00	OM-3L	Object Marker	Rt.
Total Signs			
4 Object Markers Req'd.			

NOTE: All Bridges Shall Be Striped

STRIPING DETAIL

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

SITE "A"

Skip Yellow = 0.038 Mi.
 Continuous White = 0.076 Mi.

SITE "B"

Skip Yellow = 0.208 Mi.
 Continuous White = 0.417 Mi.

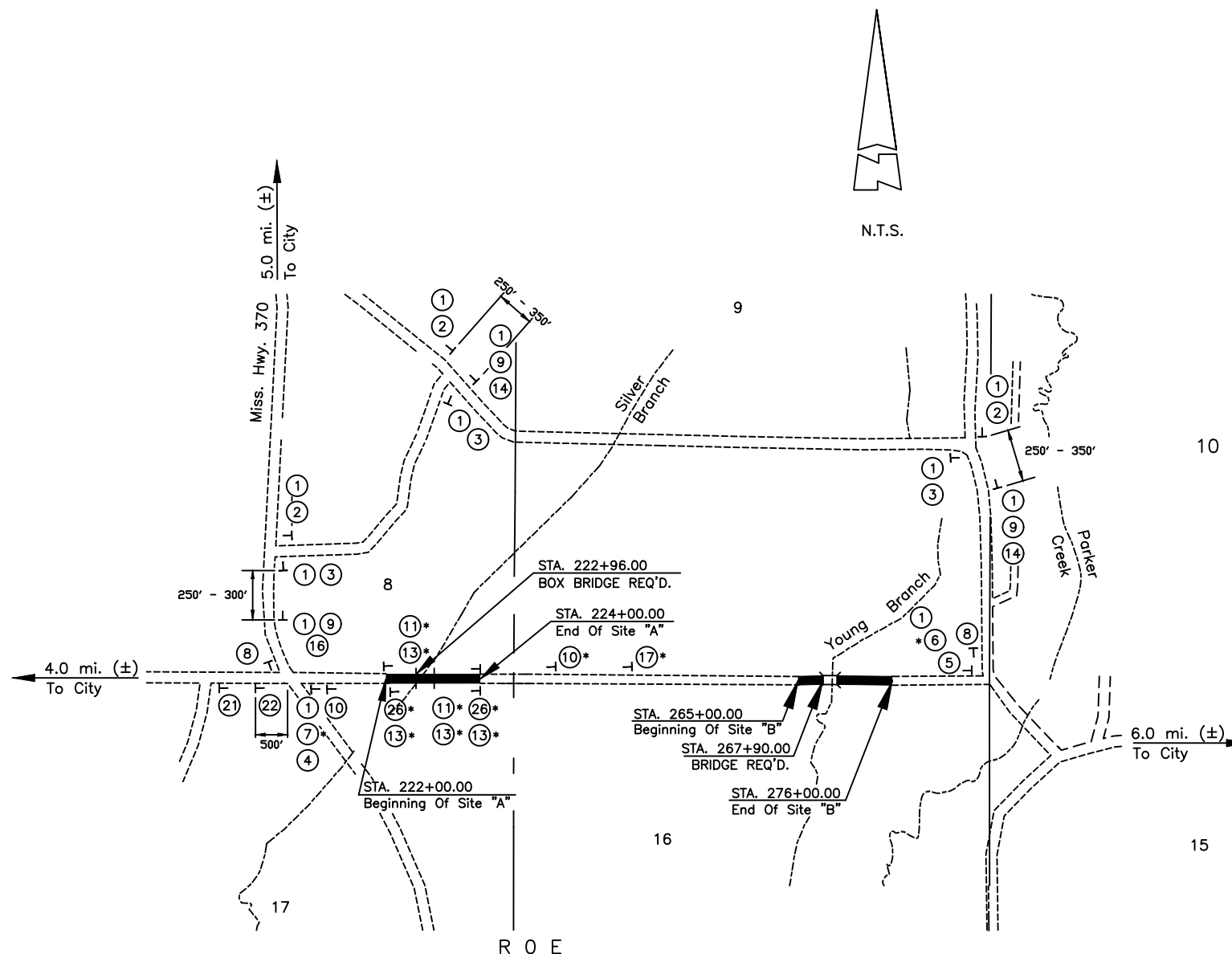
TOTALS

Skip Yellow = 0.246 Mi.
 Continuous White = 0.493 Mi.

SIGN SCHEDULE	
SIGN	DESCRIPTION
①	NAME OF ROAD - SUPP. PLATE
②	M4-9L
③	M4-9R
④	M4-10L
⑤	M4-10R
*⑥	R11-3b BRIDGE CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY
*⑦	R11-3b BRIDGE CLOSED 1/4 MILE AHEAD LOCAL TRAFFIC ONLY
⑧	M4-8a END DETOUR
⑨	M4-8 DETOUR
*⑩	W20-3 ROAD CLOSED 500 FT.
*⑪	TYPE III BARRICADE ACROSS ENTIRE ROADWAY WHEN THERE IS NO CONSTRUCTION ACTIVITY AT THE BRIDGE SITE.
⑫	TYPE III WING BARRICADE
*⑬	R11-2a ROAD CLOSED
⑭	M5-1L
⑮	M6-3
⑯	M5-1R
*⑰	W20-3 ROAD CLOSED 1500 FT.
⑱	W20-3 ROAD CLOSED AHEAD
⑳	W20-2 DETOUR AHEAD
*㉔	TYPE III BARRICADE ACROSS ENTIRE ROADWAY

* TO BE REMOVED AFTER BOX BRIDGE IS COMPLETED AND SITE "A" IS OPEN TO ALL TRAFFIC.

NOTE: SUPPLEMENTAL PLATE LETTERS SHALL BE A MINIMUM HEIGHT OF 4" AND BE BLACK-ON-ORANGE LEGEND.



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. SEE S.P. NO. 901-S-618-1 FOR ADDITIONAL CONTRACT INFORMATION.
3. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
4. THESE ARE MINIMUM REQUIREMENTS AND IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO MAINTAIN TRAFFIC IN A SAFE MANNER.
5. SEE STANDARD DRAWINGS 6358 AND SA-TSP-1 FOR CORRECT PLACEMENT AND INSTALLATION OF BARRICADES AND SIGNS.
6. PAY FOR INSTALLATION, MAINTENANCE AND REMOVAL OF TRAFFIC CONTROL DEVICES WILL BE MADE UNDER PAY ITEM NOS. S-618-A AND S-618-B.
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.

CONSTRUCTION NOTES:

1. THIS PROJECT WILL BE CONSTRUCTED UNDER THREE PHASES. THE BOX BRIDGE AT STA. 222+96.00 WILL BE CONSTRUCTED UNDER PHASE I. THE BRIDGE AT STA. 267+90.00 WILL BE CONSTRUCTED UNDER PHASE II. ALL ROAD WORK AND SURFACE ITEMS WILL BE CONSTRUCTED UNDER PHASE III. THROUGH TRAFFIC WILL BE DETOURED AROUND THE PROJECT. LOCAL TRAFFIC WILL HAVE ACCESS AT ALL TIMES BETWEEN THE PROJECT SITES FROM ONE END OF THE PROJECT.

THE SUPPLEMENTAL PLATE SHOULD BEAR THE POSTED ROAD NAME OR NUMBER - IF POSTED. IF NOT POSTED, USE THE ROAD NAME AS IT IS LOCALLY KNOWN. IN SOME CASES, YOU WOULD SUBSTITUTE "TO NAME OF TOWN" FOR ROAD NAME. IF THE ROAD NAME IS POSTED BY NAME OR NUMBER AT THE POINT OF DETOUR, WHERE M4-10 SIGNS ARE LOCATED, THE SUPPLEMENTAL NAME PLATES MAY BE DELETED AT THE LOCATIONS WHERE THE M4-10 SIGNS ARE USED.

IN SOME CASES, YOU MAY WANT TO CALL FOR R11-3b (MODIFIED), THIS MODIFIED SIGN WOULD READ "BRIDGE CLOSED AHEAD LOCAL TRAFFIC ONLY". THIS WOULD ALLOW THE CONTRACTOR TO USE THE SAME SIGN FOR BOTH PHASES WITHOUT CHANGING THE DISTANCE ON THE SIGN.

A MARKED OFF-SITE DETOUR IS REQUIRED IF THE CURRENT ADT IS GREATER THAN 400 VPD.

ON-SITE DETOURS, INSTEAD OF AN OFF-SITE DETOUR AS SHOWN HERE, SHOULD BE PROVIDED ONLY WHEN DETERMINED TO BE NECESSARY BY THE DISTRICT ENGINEER AND COUNTY ENGINEER.

TRAFFIC CONTROL PLAN
PHASE I

PLEASE ATTACH YOUR NARRATIVE (SP 901-S-618-1, SUPPLEMENT TO TRAFFIC CONTROL PLAN) TO THIS SHEET FOR REVIEW WITH YOUR PLANS. OFFICE REVIEW PLANS WILL BE HELD UNTIL THE NARRATIVE IS RECEIVED.

SIGN SCHEDULE	
SIGN	DESCRIPTION
①	NAME OF ROAD - SUPP. PLATE
②	M4-9L
③	M4-9R
④	M4-10L
⑤	M4-10R
*⑥	R11-3b BRIDGE CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY
*⑦	R11-3b BRIDGE CLOSED 1/4 MILE AHEAD LOCAL TRAFFIC ONLY
⑧	M4-8a END DETOUR
⑨	M4-8 DETOUR
*⑩	W20-3 ROAD CLOSED 500 FT.
*⑪	TYPE III BARRICADE ACROSS ENTIRE ROADWAY WHEN THERE IS NO CONSTRUCTION ACTIVITY AT THE BRIDGE SITE.
⑫	TYPE III WING BARRICADE
*⑬	R11-2a ROAD CLOSED
⑭	M5-1L
⑮	M6-3
⑯	M5-1R
*⑰	W20-3 ROAD CLOSED 1500 FT.
⑱	W20-1 ROAD WORK 500 FT.
⑲	W13-1 (30 MPH)
⑳	W8-1 BUMP
㉑	W20-3 ROAD CLOSED AHEAD
㉒	W20-2 DETOUR AHEAD
*㉓	TYPE III BARRICADE ACROSS ENTIRE ROADWAY

* TO BE REMOVED AFTER BRIDGE AND GUARDRAILS ARE COMPLETED AND SITE "B" IS OPEN TO ALL TRAFFIC.

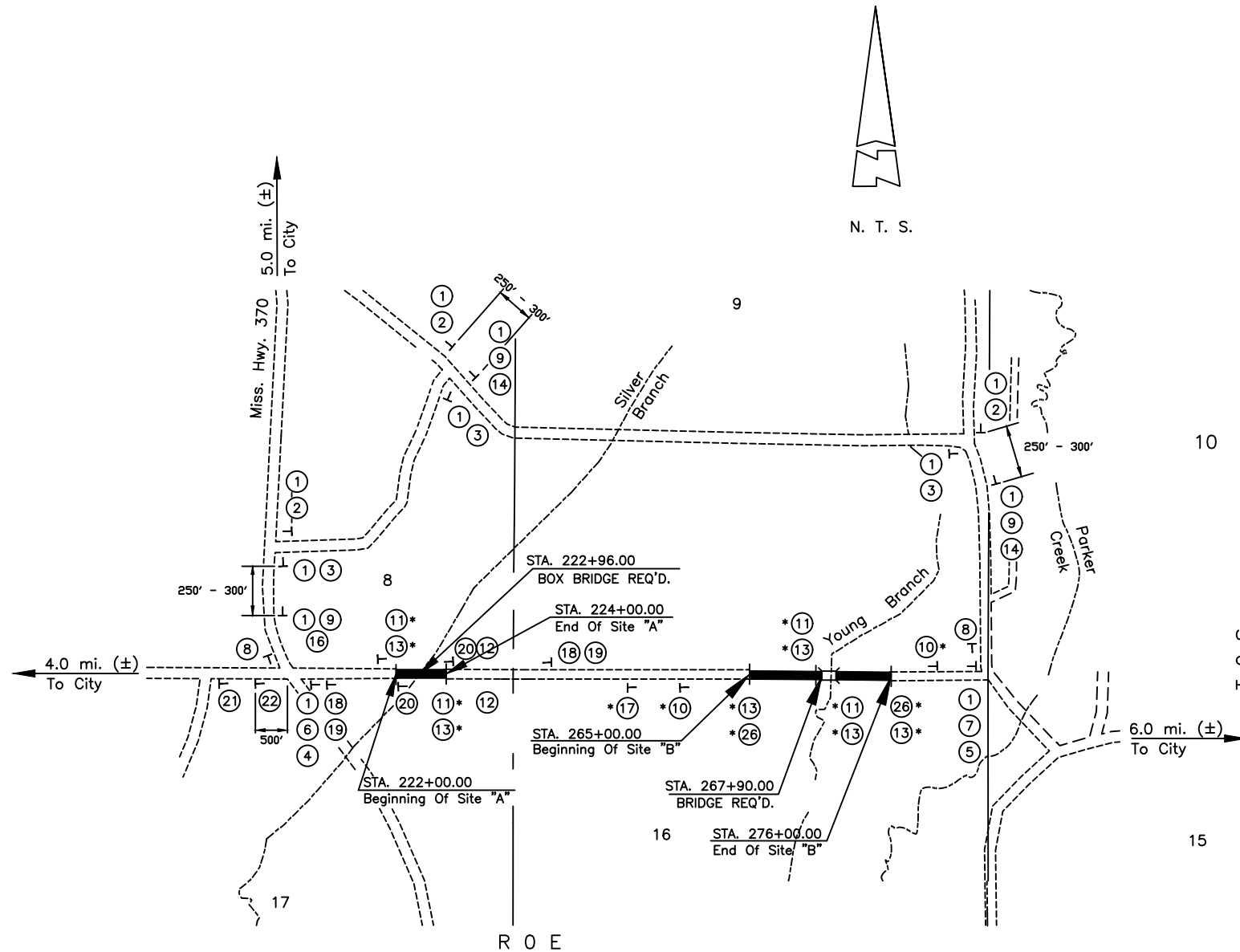
NOTE: SUPPLEMENTAL PLATE LETTERS SHALL BE A MINIMUM HEIGHT OF 4" AND BE BLACK-ON-ORANGE LEGEND.

THE SUPPLEMENTAL PLATE SHOULD BEAR THE POSTED ROAD NAME OR NUMBER - IF POSTED. IF NOT POSTED, USE THE ROAD NAME AS IT IS LOCALLY KNOWN. IN SOME CASES, YOU WOULD SUBSTITUTE "TO NAME OF TOWN" FOR ROAD NAME. IF THE ROAD NAME IS POSTED BY NAME OR NUMBER AT THE POINT OF DETOUR, WHERE M4-10 SIGNS ARE LOCATED, THE SUPPLEMENTAL NAME PLATES MAY BE DELETED AT THE LOCATIONS WHERE THE M4-10 SIGNS ARE USED.

IN SOME CASES, YOU MAY WANT TO CALL FOR R11-3b (MODIFIED). THIS MODIFIED SIGN WOULD READ "BRIDGE CLOSED AHEAD LOCAL TRAFFIC ONLY". THIS WOULD ALLOW THE CONTRACTOR TO USE THE SAME SIGN FOR BOTH PHASES WITHOUT CHANGING THE DISTANCE ON THE SIGN.

A MARKED OFF-SITE DETOUR IS REQUIRED IF THE CURRENT ADT IS GREATER THAN 400 VPD.

ON-SITE DETOURS, INSTEAD OF AN OFF-SITE DETOUR AS SHOWN HERE, SHOULD BE PROVIDED ONLY WHEN DETERMINED TO BE NECESSARY BY THE DISTRICT ENGINEER AND COUNTY ENGINEER.



TRAFFIC CONTROL PLAN
PHASE II

CONSTRUCTION NOTES:

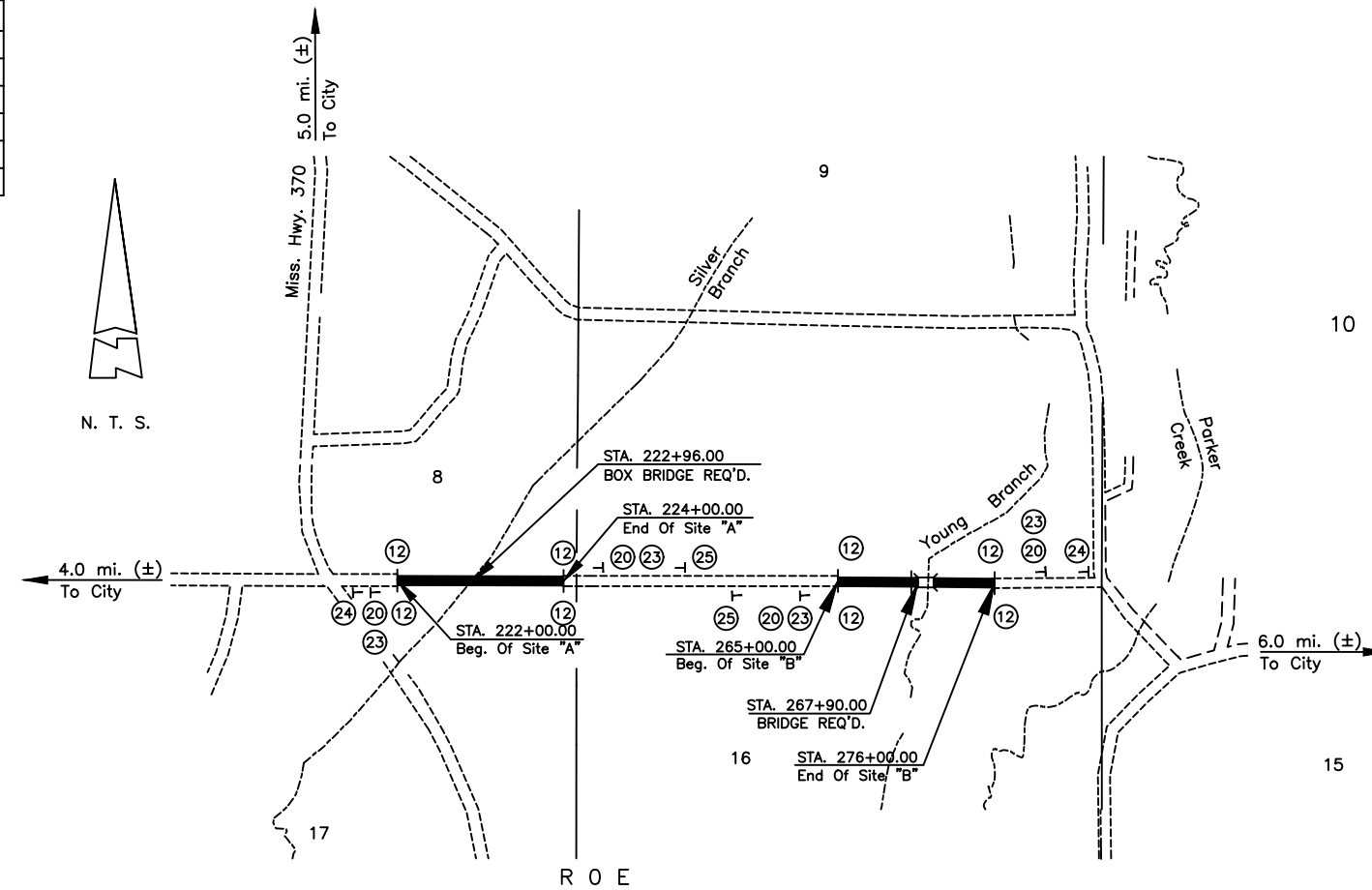
1. THIS PROJECT WILL BE CONSTRUCTED UNDER THREE PHASES. THE BOX BRIDGE AT STA. 222+96.00 WILL BE CONSTRUCTED UNDER PHASE I. THE BRIDGE AT STA. 267+90 WILL BE CONSTRUCTED UNDER PHASE II. ALL ROAD WORK AND SURFACE ITEMS WILL BE CONSTRUCTED UNDER PHASE III. THROUGH TRAFFIC WILL BE DETOURED AROUND THE PROJECT. LOCAL TRAFFIC WILL HAVE ACCESS AT ALL TIMES BETWEEN THE PROJECT SITES FROM ONE END OF THE PROJECT.

SEE SHEET 2-E FOR GENERAL NOTES

PLEASE ATTACH YOUR NARRATIVE (SP 901-S-618-1, SUPPLEMENT TO TRAFFIC CONTROL PLAN) TO THIS SHEET FOR REVIEW WITH YOUR PLANS. OFFICE REVIEW PLANS WILL BE HELD UNTIL THE NARRATIVE IS RECEIVED.

SIGN SCHEDULE	
SIGN	DESCRIPTION
(12)	TYPE III WING BARRICADE
(20)	W8-1 BUMP
(23)	W20-1 ROAD WORK 500 FT.
(24)	W20-1 ROAD WORK AHEAD
(25)	W20-1 ROAD WORK 1500 FT.

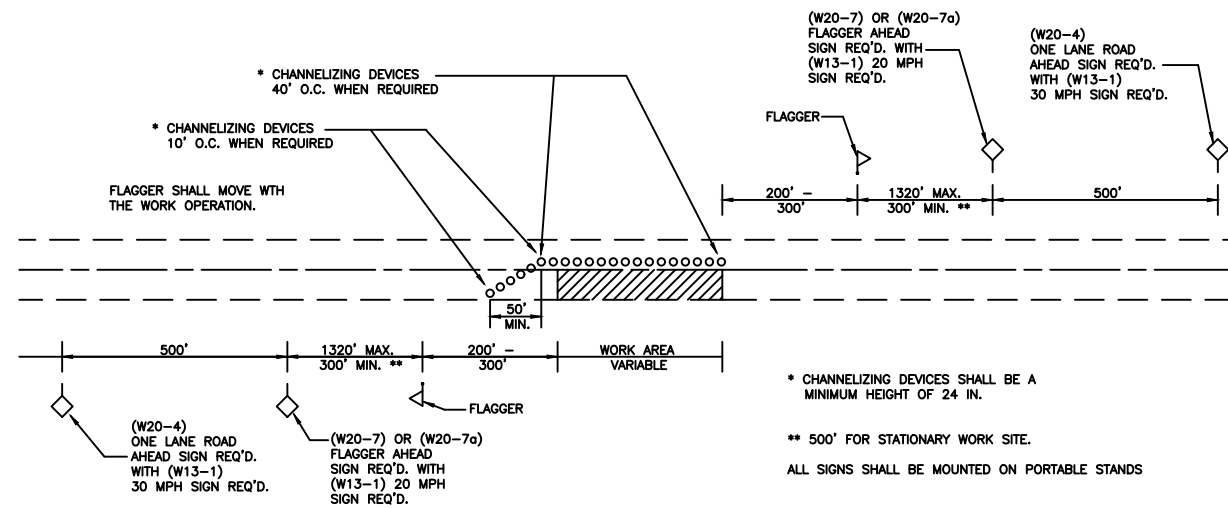
NOTE: SUPPLEMENTAL PLATE LETTERS SHALL BE A MINIMUM HEIGHT OF 4" AND BE BLACK-ON-ORANGE LEGEND.



CONSTRUCTION NOTES:

1. THIS PROJECT WILL BE CONSTRUCTED UNDER THREE PHASES. THE BOX BRIDGE AT STA. 222+96.00 WILL BE CONSTRUCTED UNDER PHASE I. THE BRIDGE AT STA. 267+90.00 WILL BE CONSTRUCTED UNDER PHASE II. ALL ROAD WORK AND SURFACE ITEMS WILL BE CONSTRUCTED UNDER PHASE III. THROUGH TRAFFIC WILL BE DETOURED AROUND THE PROJECT. LOCAL TRAFFIC WILL HAVE ACCESS AT ALL TIMES BETWEEN THE PROJECT SITES FROM ONE END OF THE PROJECT OR THE OTHER.
2. 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.
3. **TEMPORARY RAISED PAVEMENT MARKINGS.** WHENEVER PAVEMENT CONSTRUCTION HAS PROGRESSED SUFFICIENTLY TO PERMIT A SECTION OF THE PROJECT TO TRAFFIC MOVEMENT THAT IS UNRESTRICTED BY CHANNELIZING OR OTHER TRAFFIC CONTROL METHODS, TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED AS 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 MARKINGS SHALL BE INSTALLED AND MAINTAINED IN A LIKE MANNER AFTER EACH LIFT. THE TEMPORARY RAISED PAVEMENT MARKINGS SHALL BE INSTALLED AT THE END OF THE DAY'S WORK OR PRIOR TO NIGHTFALL, WHICHEVER IS EARLIER. 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".
4. PRIOR TO OPENING A SECTION OF THE PROJECT TO TRAFFIC, R4-2, "PASS WITH CARE" SIGNS SHALL BE INSTALLED ON THE RIGHT HAND SIDE OF THE ROAD AT THE BOP AND EOP 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 S-618-A, "MAINTENANCE OF TRAFFIC".

**TRAFFIC CONTROL PLAN
PHASE III**



YOU MAY CHOOSE TO OPEN THE PROJECT TO ALL TRAFFIC AT SOME STAGE OF CONSTRUCTION AFTER THE BRIDGES AND GUARDRAILS ARE CONSTRUCTED. IN THIS EVENT, A PHASE III WOULD BE REQUIRED WITH THE APPROPRIATE SIGNS SHOWN.

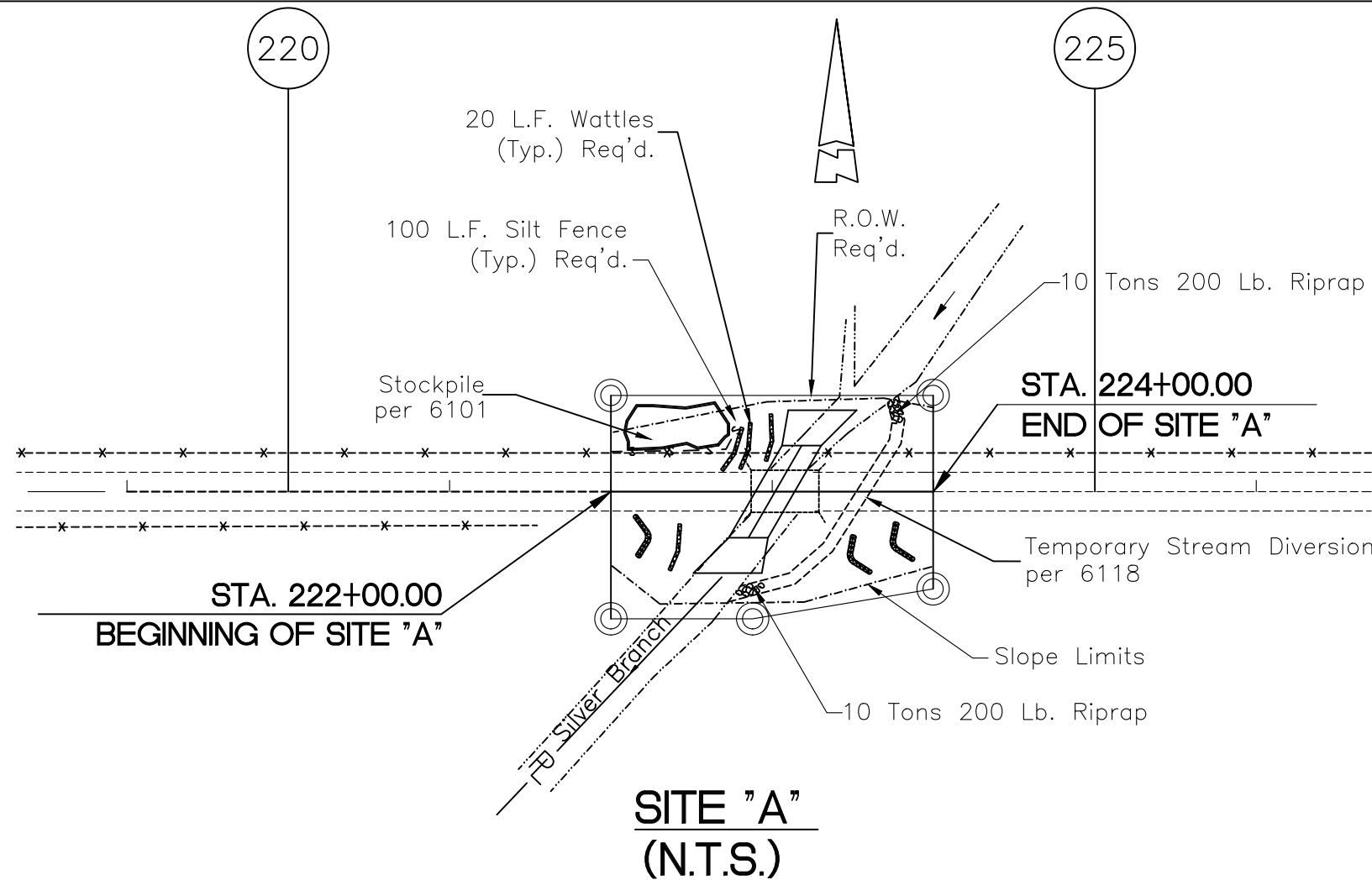
DURING STRIPING OPERATIONS:

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

SEE SHEET 2-E FOR GENERAL NOTES.

ONE LANE ROAD CLOSURE WHEN REQUIRED AND AS DIRECTED BY THE ENGINEER

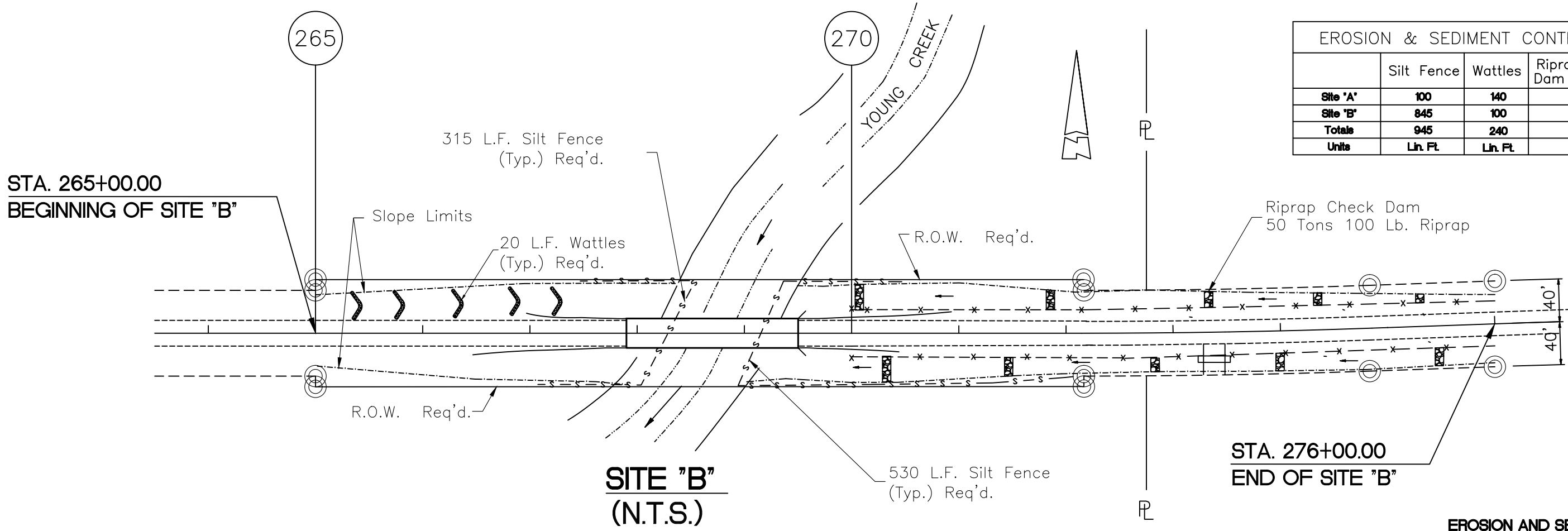
N.T.S.



GENERAL NOTES

- ① THIS SHEET IS REQUIRED FOR FEDERAL PROJECTS.
- ② CONTRACTOR SHALL FOLLOW GUIDELINES AND BEST MANAGEMENT PRACTICES PROVIDED IN THE MDOT STANDARDS THAT ARE INCLUDED IN THE PLANS OR IN THE "FIELD MANUAL FOR EROSION AND SEDIMENT CONTROL OF CONSTRUCTION SITES IN MISSISSIPPI" AS PREPARED AND PROVIDED BY THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY.
- ③ CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO ANY EXCAVATION OF EARTH, AND SHALL REMOVE SAME AFTER PERMANENT EROSION CONTROL HAS BEEN ESTABLISHED.
- ④ CONTRACTOR SHALL MAINTAIN INSTALLED MEASURES AND MODIFY OR ADD MEASURES AS NECESSARY TO PROVIDE BEST MANAGEMENT PRACTICES FOR EFFECTIVE EROSION AND SEDIMENT CONTROL.
- ⑤ MONITORING AND DOCUMENTATION ARE REQUIRED PER MDEQ GUIDELINES AND PERMIT REQUIREMENTS, AND APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS.
- ⑥ TEMPORARY RIPRAP CHECK DAMS ARE TO BE INDICATED AS 100 LB. RIPRAP. CHECK DAMS ARE TO BE REMOVED BY THE CONTRACTOR AFTER CONSTRUCTION AND REMAIN PROPERTY OF THE CONTRACTOR. REMOVAL OF CHECK DAMS IS TO BE ABSORBED IN THE PAY ITEM.
- ⑦ RIPRAP INDICATED AS 200 LB. RIPRAP USED WITH TEMPORARY STREAM DIVERSION IS TO BE REMOVED AND COMBINED WITH OTHER PERMANENT DITCH RIPRAP BY THE CONTRACTOR AFTER CONSTRUCTION AND BECOME PROPERTY OF THE COUNTY.
- ⑧ NO SEPARATE PAYMENT FOR THE EROSION CONTROL PLAN WILL BE MADE EXCEPT AS LISTED IN THE CONTRACT FOR THE QUANTITIES SHOWN.
- ⑨ CONTRACTOR SHALL NOTIFY MSDEQ IMMEDIATELY FOLLOWING ANY MAJOR STORMWATER EVENT, WHICH QUALIFIES AS AN "UPSET" CONDITION, ON THE SITE PER PERMIT REQUIREMENTS.

Note: Modify notes 6 & 7 to indicate how you want the contractor to handle riprap on a project by project basis.



EROSION & SEDIMENT CONTROL SCHEDULE				
	Silt Fence	Wattles	Riprap Check Dam (100 Lb.)	Riprap Dam (200 Lb.)
Site "A"	100	140		20
Site "B"	845	100	50	
Totals	945	240	50	20
Units	Ln. Ft.	Ln. Ft.	Tons	Tons

DESIGN DATA

Specifications: AASHTO LRFD Bridge Design Specifications, 4th Edition, 2007 through 2009 Interims
 Design Loading: HL-93
 Seismic Zone: "1", Site Class "D"

Note: Modify this note as required and submit seismic worksheet with PS&E Plans

DRAINAGE DESIGN DATA

Required Opening
 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.

Note: Slope and length required for Delta Region and Urban Basin only

GENERAL NOTES

- Specifications: Current Mississippi Standard Specifications For State Aid Road And Bridge Construction.
- No Unauthorized Change Of Plans Will Be Permitted.
- No Payment Will Be Allowed For Excavation Incidental To Construction Of End Bents Or Pile Encasements.
- 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.
- All Concrete Shall Be Class "A" Concrete.
- 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.
- Surfaces Shall Be Finished In Accordance With Section S-804.03.19 Of The Specifications.
- No Pay Item Is Provided For Foundation Excavation And Channel Excavation For Bridges.
- 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.

Cementitious Material Exposure To Sulfates Is Negligible.

SEISMIC ZONE "1", SITE CLASS "D".

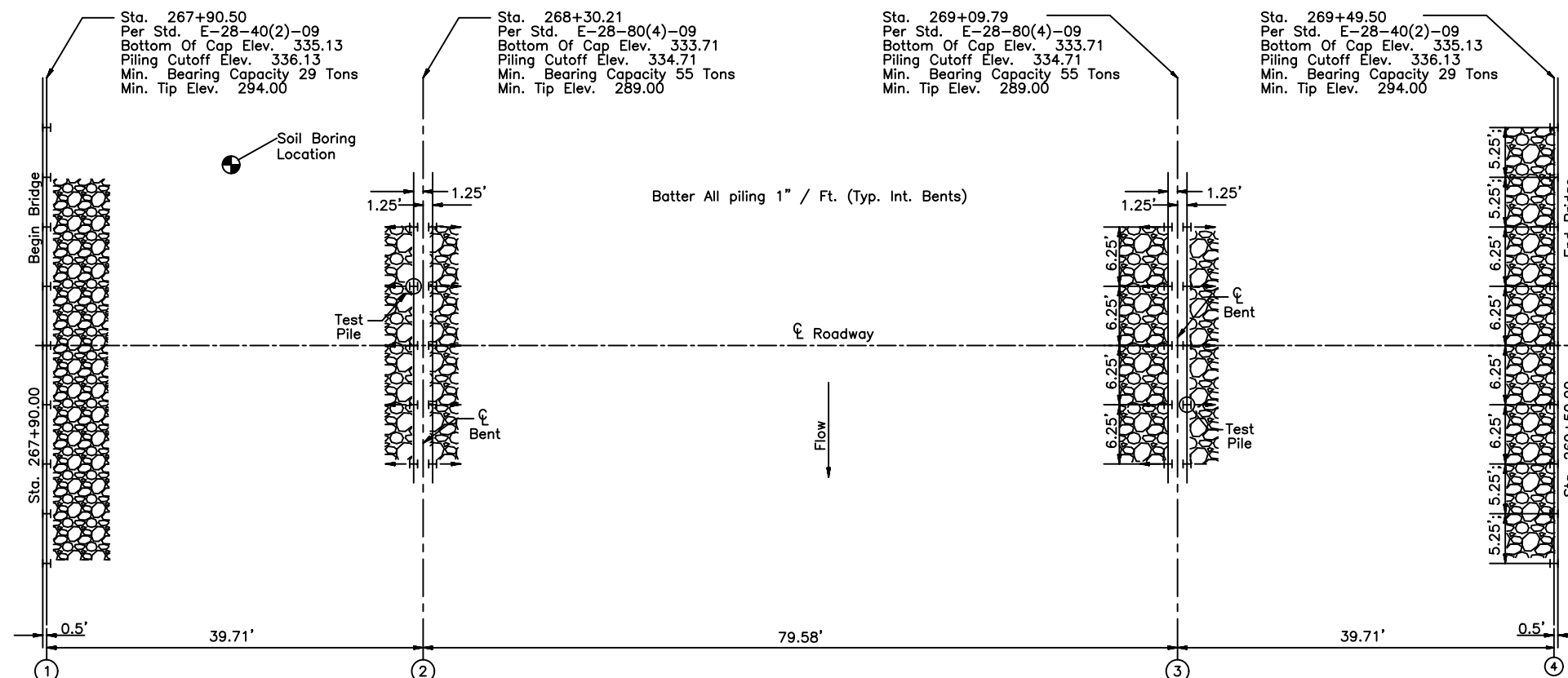
Note: Modify this note as required by conditions for Negligible, Moderate, or Severe Sulfates.

SUMMARY OF HYDRAULIC DESIGN DATA						
BRIDGE	* DESIGN YEAR		* DESIGN YEAR		FLOOD OF RECORD	
	Q25	Q100	Q25	Q100	DISCH.	H. WATER
STATION	DISCH. (C.F.S.)	H. WATER (ELEV.)	DISCH. (C.F.S.)	H. WATER (ELEV.)	DISCH. (C.F.S.)	H. WATER (ELEV.)
267+90.00	4130	333.00	5422	334.2		

*Headwater elevation values shown on these plans are theoretical and may vary from actual conditions

ESTIMATED BRIDGE QUANTITIES										
LOCATION	Concrete Railing	Class "A" Bridge Conc.	Reinforcing Steel	40' Prest. Beam	80' Prest. Beam	12" Steel Piling	Test Piles	Loose Riprap (300 Lb.)	Geotextile	16" Pre-Formed Pile Holes
	Lin. Ft.	Cu. Yd.	Lb.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Each	Tons	Sq. Yd.	Lin. Ft.
End Bents		27.38	3,684			810		79	170	100
Int. Bents		26.88	3,694			900	2.0			100
End Spans	160.0	67.10	12,708	397.50						
Int. Spans	160.0	64.75	12,489	398.75						
		10.78	174							
Totals	320.0	196.89	32,749	397.50	398.75	1,710	2.0	79	170	200

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.

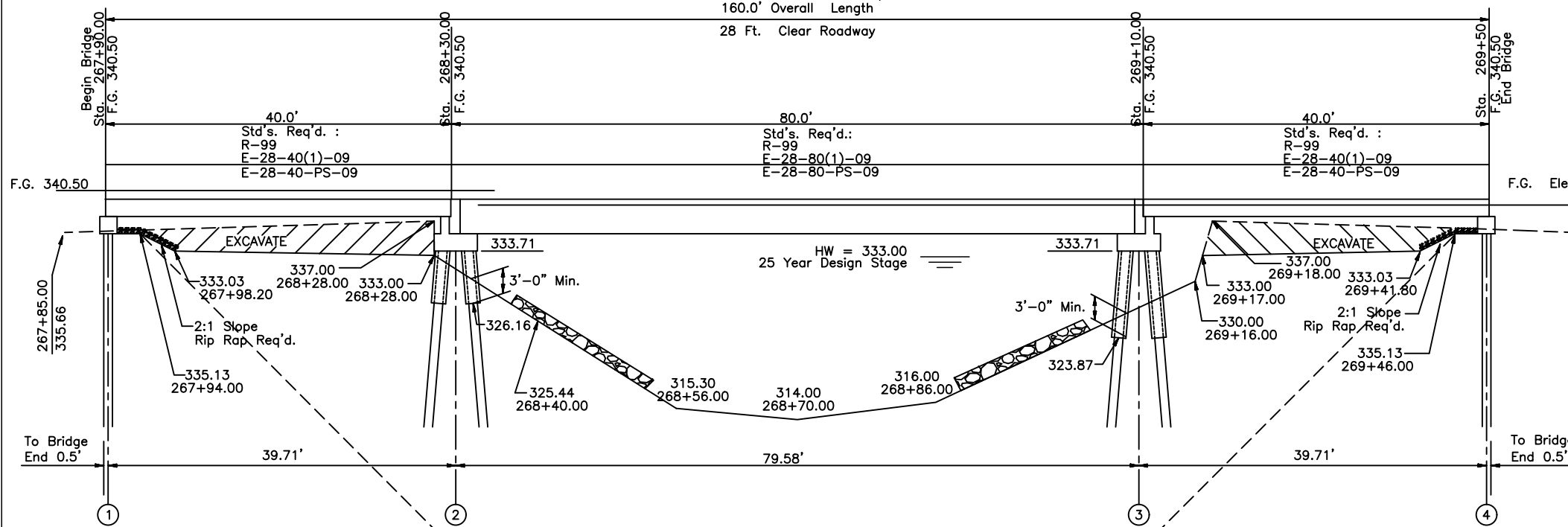


FOUNDATION PLAN

Scale: 1" = 10'
 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

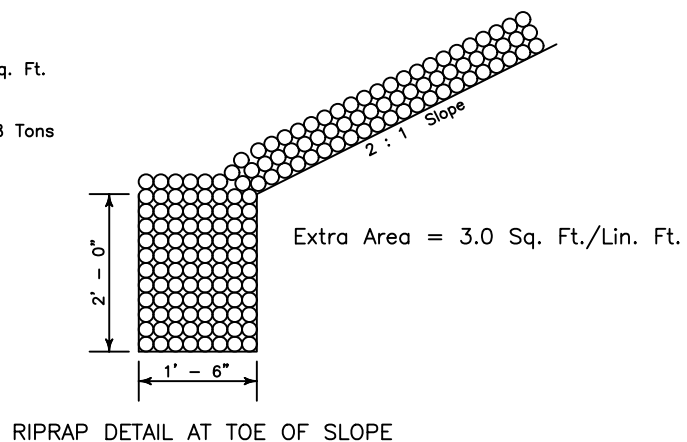


ELEVATION AT ROADWAY

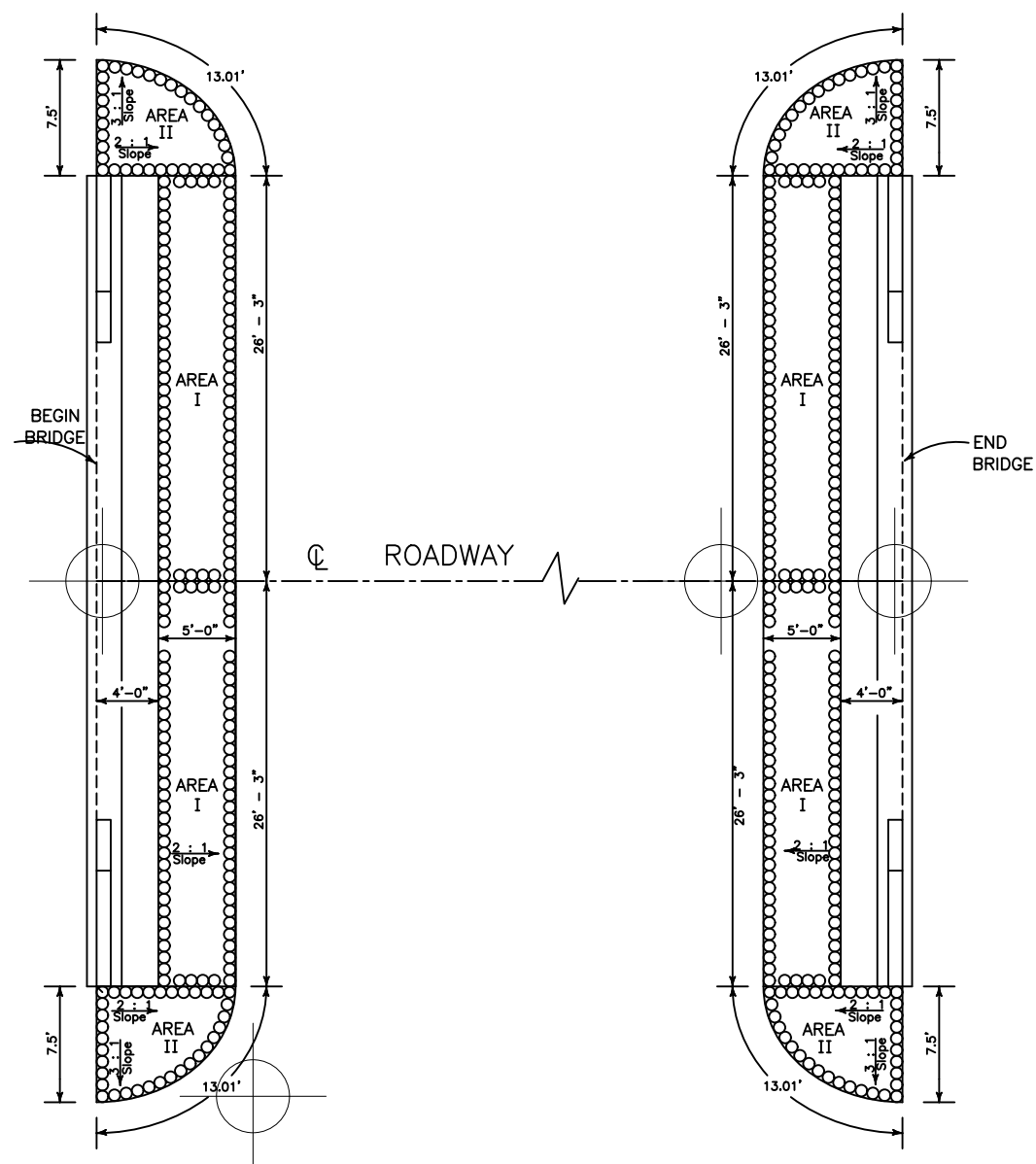
Scale: 1" = 10'

Riprap Calculations: For Information Only -- Not Required On Plans.

AREA I = $2 \times 52.50' \times 5' \times \sqrt{5}/2 = 586.97$ Sq. Ft.
 AREA II = $4 \times .7854 \times 7.5 \times 9 \times \sqrt{5}/2 \times \sqrt{19}/3 = 249.91$ Sq. Ft.
 Area For Toe Wall = Approx. 157.04 Ft. \times 3.0 Sq. Ft. = 471.12 Sq. Ft.
 Total Area = 1308.00 Sq. Ft.
 Riprap = 1308.00 Sq. Ft. \times 120 Lbs./Sq. Ft. + 2000 Lbs./Ton = 78.48 Tons
 Total Riprap = 79 Tons



RIPRAP DETAIL AT TOE OF SLOPE



ENGINEERING, P.A. LOG OF BORING NO. Bore Hole 1										
Project: BR-0084(1)B		Project No.: 1785T122								
Client: O.S.A.R.C.		Location: 30' West of Bridge End & 12' Rt. of C.L.								
Drilling Method: Rotary Wash / Standard Penetration		Date: 7/9/2020								
DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LBS/CU FT	COHESION, TONS/SQ FT Δ				
						WATER CONTENT, % - ϕ				
			Elevation			0.4	0.8	1.2	1.6	
			PL +			20	40	60	80	
									LL	
0			Brown Silty Sand	9						
0.5			Brown Silty Sand	10						
1			Brown Sand	5						
17			Grey Clay	4						
25.5			White Sand with Gravel	48						
29			Blue Clay	22						
34			Blue Clay	29						
42.5			Blue/Grey Clay	39						
51			Blue/Grey Clay	18						
59.5			Tan Clay	18						
			Brown/Tan Silty Clay Sand	19						
			Brown/Tan Silty Clay Sand	40						
COMPLETION DEPTH: 61.5				DEPTH TO WATER INITIAL: 10'			FINAL:			
REPORTED BY: CS							Page 1 of 1			

Note: Show ground elevation on the boring log

Riprap Calculations: For Information Only -- Not Req

UTILITIES OWNERS

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

BELLSOUTH, Phone 601-359-5556
101 Electric Street, Electric City, MS 39216

TOWN OF TOWN WATER DEPARTMENT
102 Water Street, Water 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 As Shown On USGS Quad Topographic Map Elev. 88.571 Ft.

Drainage areas Taken From USGS Topographic Maps. and Streamstats Website
Disturbed Area = 0.64 Acre

HYDRAULIC DESIGN

< 25 ACRES - RATIONAL METHOD
> 25 ACRES - "FLOOD FREQUENCY OF RURAL STREAMS IN MISSISSIPPI" 2013 USGS

SHRINKAGE FACTOR

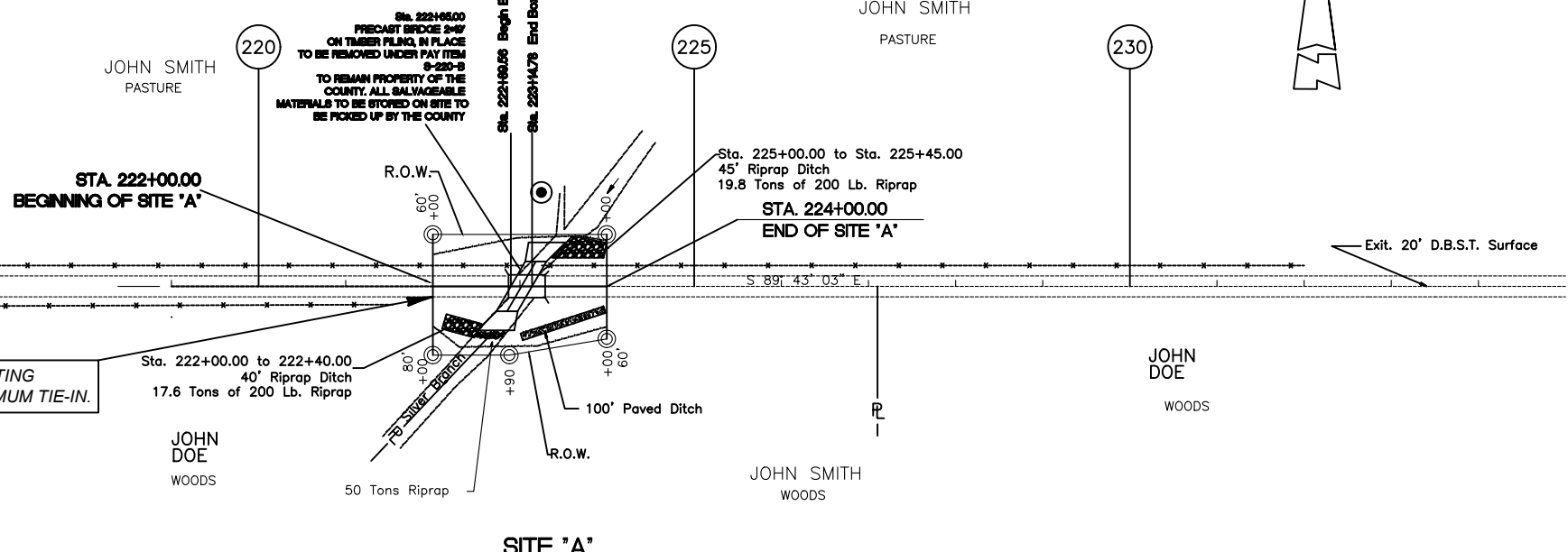
Unclassified Excavation = 1.35
Granular Material (Cl. 5, Gp. "B") (LVM) = 1.50

DESIGN DATA

Design Speed = 55 MPH
Current ADT (2022) = 380 (MDOT)

Sta. 222+84.00 Timber Bridge 2@21' Treated Timber With Steel Beam In Place To Be Removed Under Pay Item S-202-B. All Salvageable Material To Remain The Property of Mississippi County And To Be Stockpiled Within The R.O.W. For Removal By County Forces.
Note: Specific salvage or disposal

B.M. Elev. 332.04
Nail In 30" Water Oak
100 Ft. Lt. Sta. 223+25.00



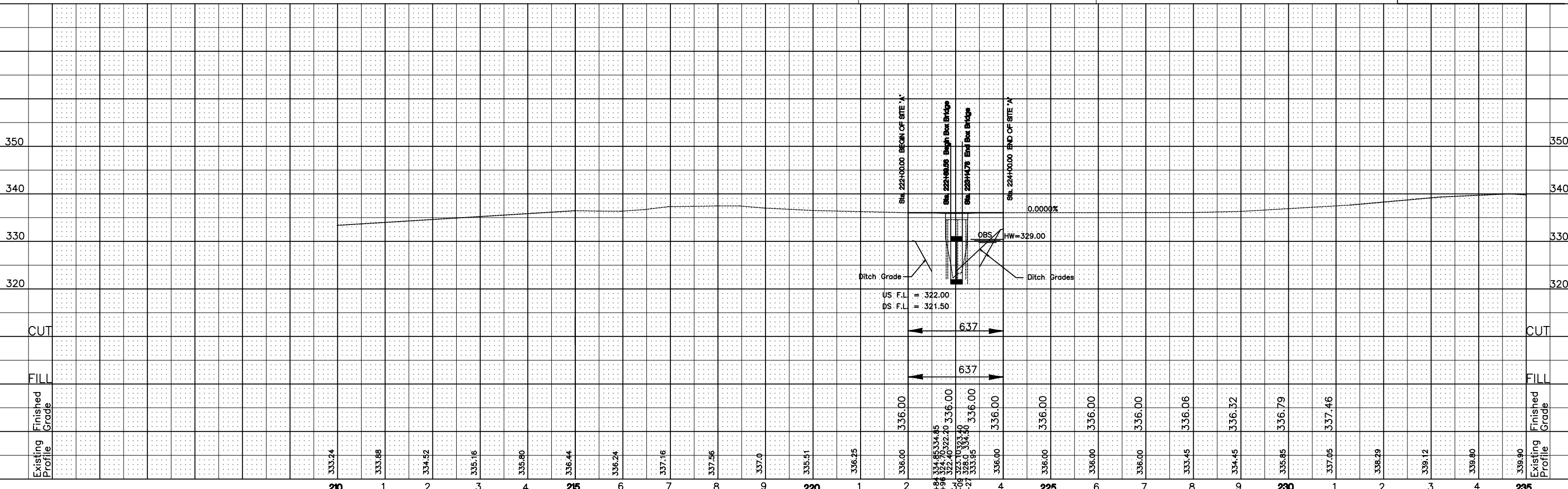
METHOD VARIES BASED ON DRAINAGE AREA. Delta Region and Urban Basin use 1991 Method

FEDERAL PARTICIPATING LENGTH IS FOR MINIMUM TIE-IN.

INSERT YOUR OWN SHRINKAGE FACTORS.

Sta. 222+96.00
D.A. 1.5 Sq. Mi. Skew 30° Lt.Fwd.
70' - Double 10' X 8' Box Bridge Req'd.
25.69' Along C
3:1 Wings Req'd., 10' MAX COVER

SHEET TOTALS	
Uncl. Excavation	637.0 Cu.Yd.
Riprap (200 Lb.)	87.4 Ton
R.O.W. Markers	5.0 Each



UTILITIES OWNERS

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

BELLSOUTH, Phone 601-359-5556
101 Telephone Street, Phone City, MS 39216

TOWN OF TOWN WATER DEPARTMENT, 601-359-5557
102 Water Street, Water 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 SEAL LEVEL Datum As Shown On USGS Quad Topographic Map Elev. 88.571 Ft.

Drainage areas Taken From USGS Topographic Maps and StreamStats Website Disturbed Area = 1.9 Acre

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. 5, Gp. "B") (LVM) = 1.50

DESIGN DATA

Design Speed = 55 MPH
Current ADT (2022) = 360 (MDOT)

B.M. Elev. 340.32
Nail In 6" Cedar
70 Ft. Rt. Sta. 262+60.00

APPROACH GUARDRAIL LENGTHS FOR VALUES "A", "B", "C" AND "D" ON STANDARD 6215	
A	= 143.15 LINEAR FEET
B	= 100.00 LINEAR FEET
C	= 80.65 LINEAR FEET
D	= 37.50 LINEAR FEET

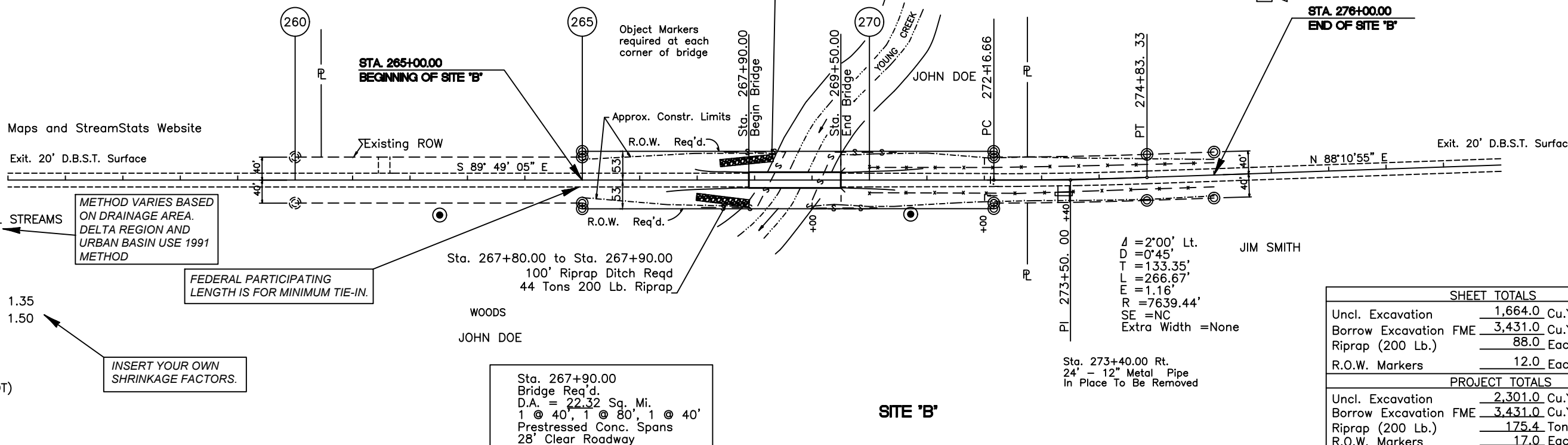
B.M. Elev. 335.73
Nail In 6" Oak
65 Ft. Rt. Sta. 270+70.00

STA. 268+22.00 PRECAST BRIDGE (5@19") 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. Note: Specific salvage or disposal

Use current Length of Need (Table 9-6) to determine value for A, B, C, & D.

JOHN DOE PASTURE
Sta. 267+85.00 to Sta. 267+95.00
100' Riprap Ditch Req'd
44 Tons of 200 Lb. RipRap

JIM SMITH



METHOD VARIES BASED ON DRAINAGE AREA. DELTA REGION AND URBAN BASIN USE 1991 METHOD

FEDERAL PARTICIPATING LENGTH IS FOR MINIMUM TIE-IN.

INSERT YOUR OWN SHRINKAGE FACTORS.

SHEET TOTALS	
Uncl. Excavation	1,664.0 Cu.Yd.
Borrow Excavation FME	3,431.0 Cu.Yd.
Riprap (200 Lb.)	88.0 Each
R.O.W. Markers	12.0 Each
PROJECT TOTALS	
Uncl. Excavation	2,301.0 Cu.Yd.
Borrow Excavation FME	3,431.0 Cu.Yd.
Riprap (200 Lb.)	175.4 Ton
R.O.W. Markers	17.0 Each

