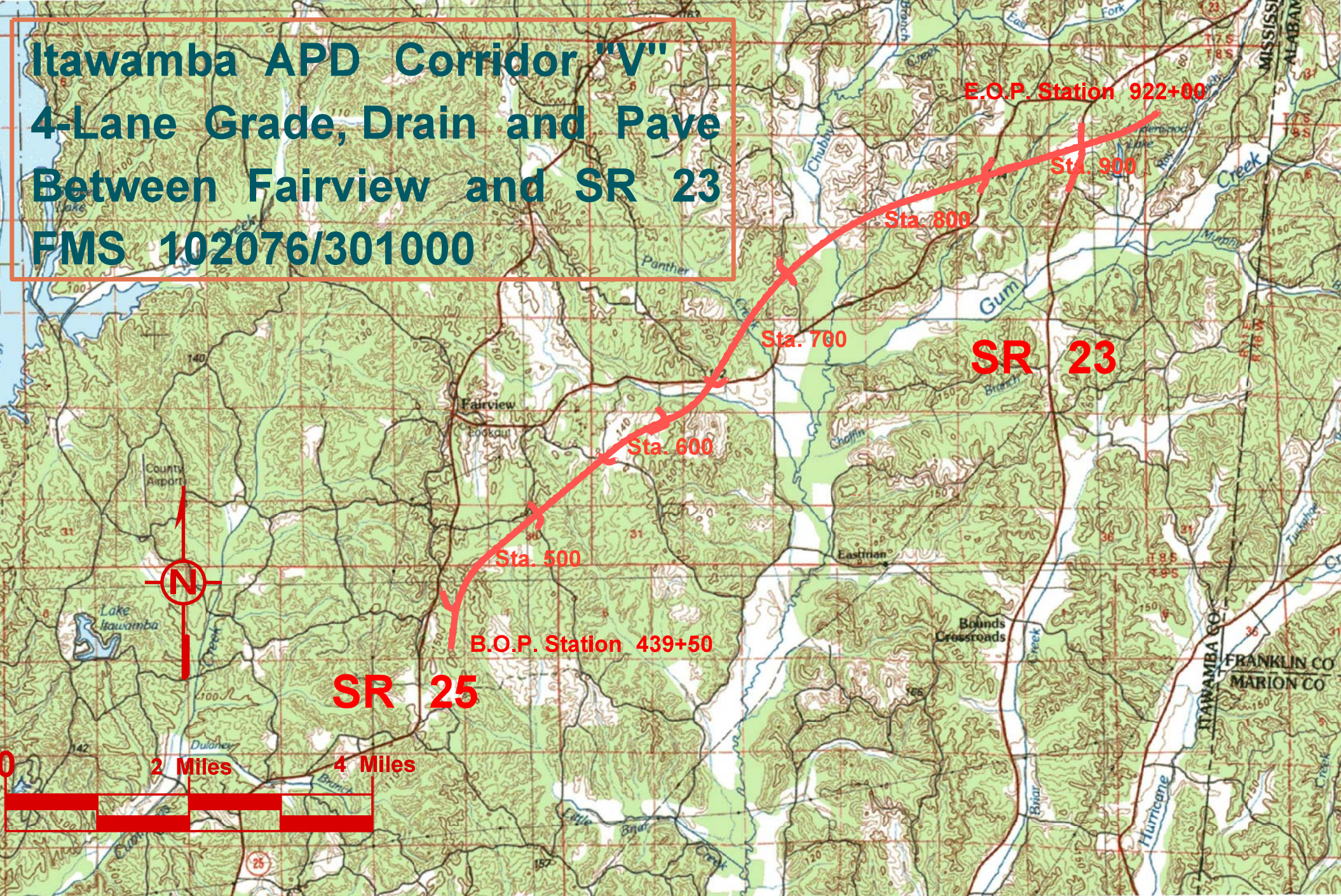


***Itawamba App. Cor. V***  
***NH-ADP-0078-01(011)N; 102076-301000***

Location Map



**Itawamba APD Corridor "V"**  
**4-Lane Grade, Drain and Pave**  
**Between Fairview and SR 23**  
**FMS 102076/301000**



E.O.P. Station 922+00

Sta. 900

Sta. 800

Sta. 700

**SR 23**

Sta. 600

Sta. 500

B.O.P. Station 439+50

**SR 25**

2 Miles

4 Miles



Itawamba APD Corridor "V" E.O.P. 922+00  
Between Fairview and SR 23  
4-Lane, Grade, Darin, Pave  
FMS 102076/301000



Fairview

SR 25

B.O.P. 439+50

Sta. 500

Sta. 600

Sta. 700

Sta. 800

SR 23

SR 23





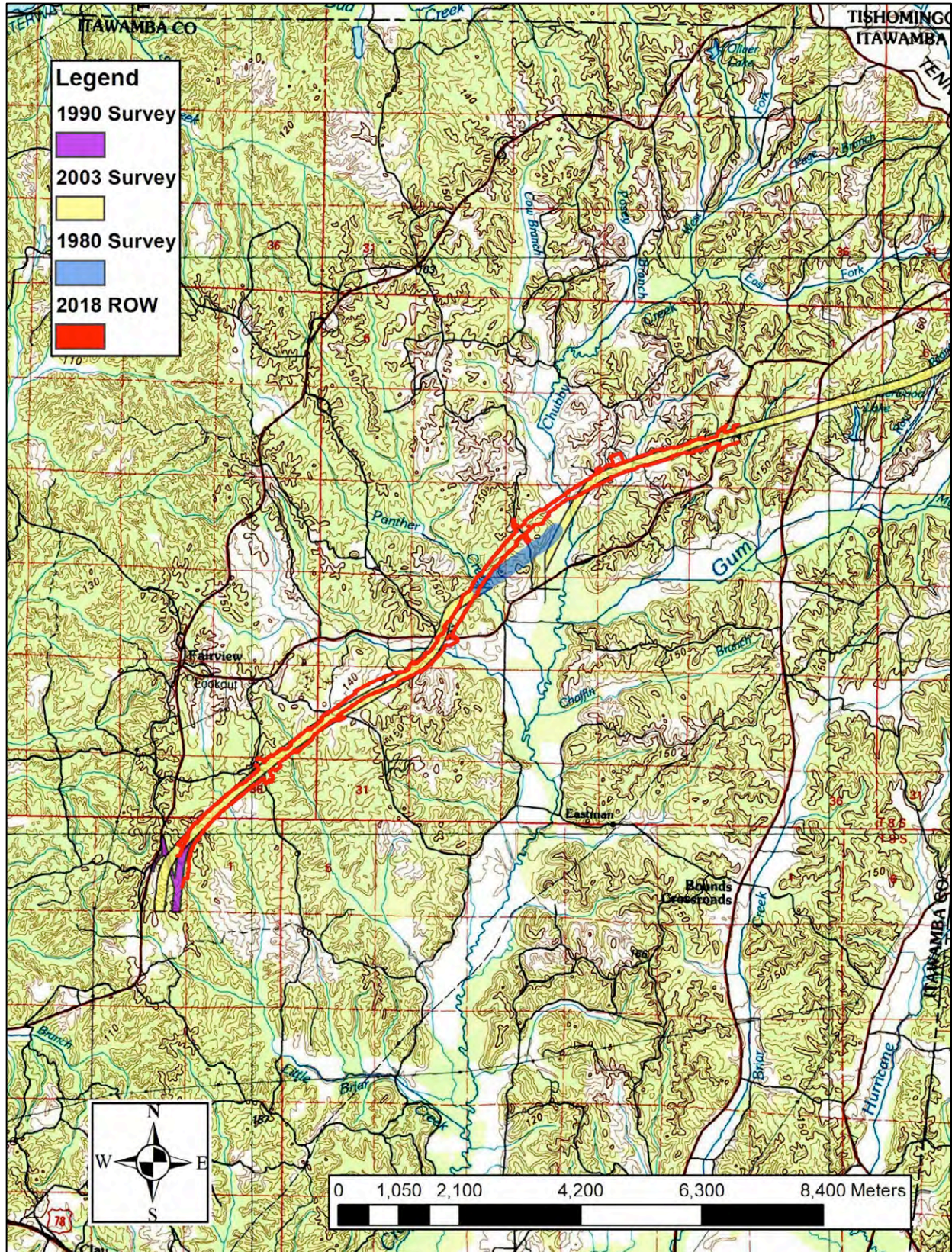


Figure 1-01. The Appalachian Corridor "V" project area, with earlier surveys indicated (base map: 1984 Tupelo 1:100,000 map).



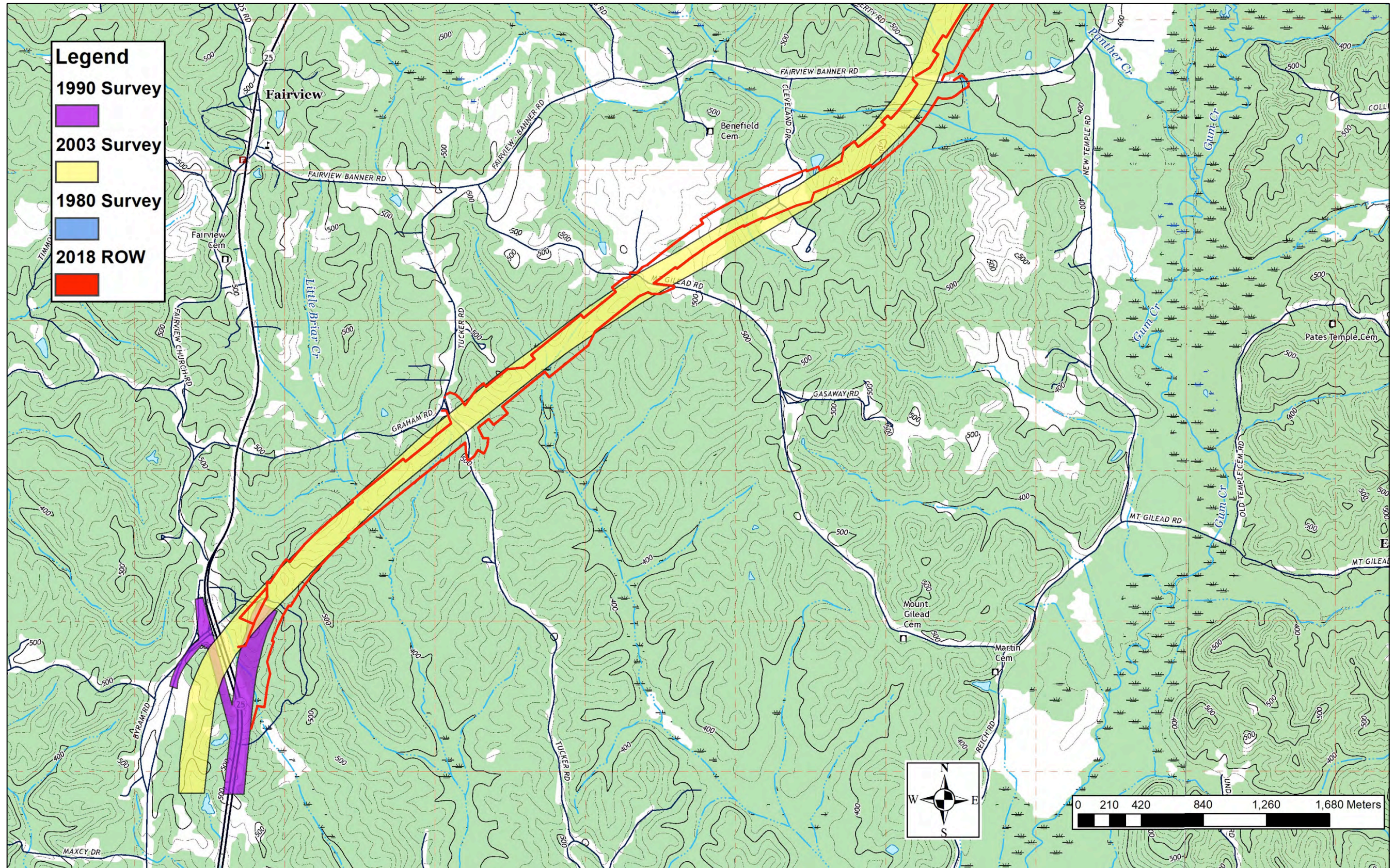


Figure 1-02. Southwestern half of the Appalachian Corridor "V" project area, with earlier surveys indicated (base maps: U.S. Geological Survey Fulton SE, Fulton NE, Red Bay, and Shottsville, MS 7.5-min. quads).



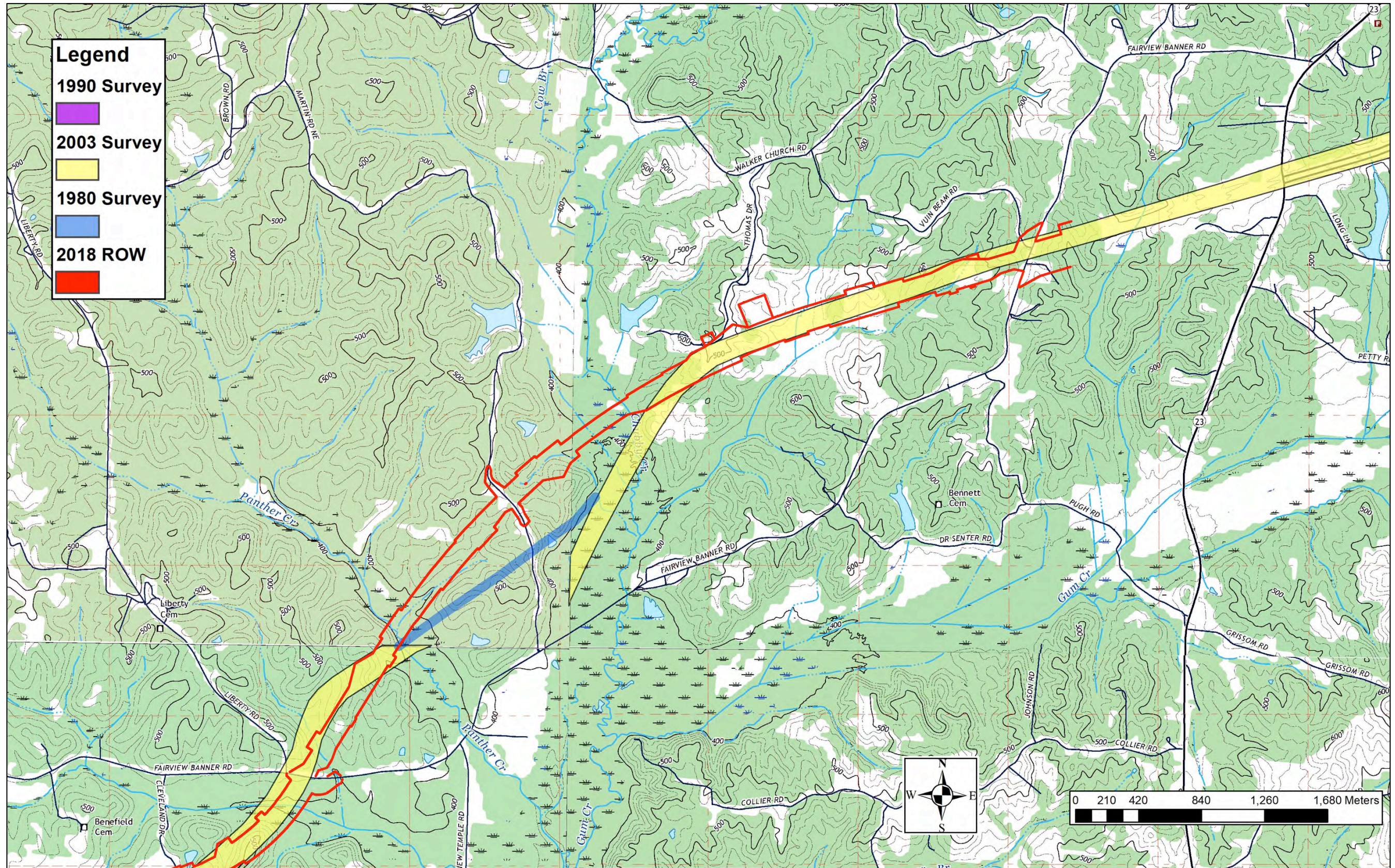


Figure 1-03. Northeastern half of the Appalachian Corridor "V" project area, with earlier surveys indicated (base maps: U.S. Geological Survey Fulton SE, Fulton NE, Red Bay, and Shottsville, MS 7.5-min. quads).



# Table of Impacts



**Table 1. Wetland Data Point Summary Table**

Data Point	Wetland ID#	Site #	Latitude	Longitude	Sta.	Section-Township-Range	Impacted Area (Acres)	Cowardin Classification	
DP-1	W1	1	34.33120	88.31810	445+00	2-9S-9E	4.32	PSS	4.32 acres will be permanently filled; No temporary fill; All wetlands outside clearing limits will remain. Site will be graded to restore natural drainage to the best extent possible; WK3
DP-2	W2	2	34.33930	88.31250	492+00	35-8S-9E	1.55	PF	1.55 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible; WK5
DP-3	W3	3	34.34717	88.30083	537+00	36-9S-9E	1.82	PF	1.82 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK6
DP-4	W4	4	34.34950	88.29750	549+00	25-8S-9E	0.42	PF	0.42 acres permanently filled inside clearing limits; 0.10 acres temporary fill;. All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK6
DP-5	W5	4	34.34983	88.29710	554+00	25-8S-9E	3.86	PF	3.86 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK7
DP-6	W6	5	34.35817	88.28467	600+00	30-8S-10E	0.65	PEM	0.65 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK8
DP-7	W7	5	34.35933	88.28233	607+00	30-8S-10E	0.85	PF	0.85 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK8



DP-8	W8	6	34.36210	88.27483	633+00	30-8S-10E	0.90	PF	0.90 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK9
DP-9	W9	7	34.36450	88.27133	647+00	20-8S-10E	1.88	PSS	1.88 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK10
DP-10	W10	8	34.37583	88.26250	699+00	20-8S-10E	0.81	PF	0.81 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain. Site will be graded to restore natural drainage to the best extent possible. WK11
DP-11	W11	9-10	34.38767	88.24933	757+00	16-8S-10E	4.31	PSS	4.31 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK13 & 14
DP-12	W12	12	34.39533	88.22717	829+00	10-8S-10E	0.17	PF	0.17 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK16
DP-13	W13	12	34.39233	88.23510	841+00	10-8S-10E	1.30	PF	1.30 acres permanently filled inside clearing limits; All wetlands outside clearing limits will remain. Site will be graded to restore natural drainage to the best extent possible. WK16
DP-14	W14	12	34.39667	88.22433	843+00	11-8S-10E	0.19	PSS	0.19 acres permanently filled inside clearing limits; No temporary fill; All wetlands outside clearing limits will remain; Site will be graded to restore natural drainage to the best extent possible. WK16

DP- Data point- collection point for sampling data for wetland assessment

W- Wetland- areas described as wetlands

PF- Palustrine Forested

PEM- Palustrine Emergent

PSS- Palustrine Shrub-Scrub

Station Numbers are approximate

**Notes: Temporary haul roads and bridges will be allowed on either side of the bridges. They will be removed after construction and natural ground restored. However, ECD-17 will be omitted from the plans and will not be considered.**

<b>Wetland Summary:</b>	<b>14 Total Impacted</b>	<b>Temporary Fill</b>	<b>Permanent Fill</b>
<b>Total</b>	<b>23.03 acres</b>	<b>0.00 acres</b>	<b>23.03 acres</b>
<b>Emergent:</b>	0.65 acres	0.00 acres	0.65 acres
<b>Shrub-Scrub:</b>	10.70 acres	0.00 acres	10.70 acres
<b>Forested:</b>	11.68 acres	0.00 acres	11.68 acres



**Table 2. Other Waters Assessment Table**

OW #	Site #	Latitude	Longitude	Sta.	Section-Township-Range	Type	Length in Project Area (feet)	Channel Width (feet)	Name	Impact
1	1	34.33158	88.31867	456+50	2-9S-9E	E	1,900	5	N/A	1,802 ft- Fill Channel and Relocate
2	2	34.34106	88.31022	500+80	35-8S-9E	E	1,086	5	N/A	496 ft- Fill channel and relocate
3	2	34.34175	88.30935	502+50	35-8S-9E	E	335	6	N/A	185 ft- New RBC DBL 10X8; 46 ft of 3:1 Wingwalls
4	2	34.34368	88.06447	515+50	35-8S-9E	E	792	6	N/A	200 ft- 36" RCP; 2- 36" FES
5	3	34.34479	88.30110	537+30	36-9S-9E	E	120	5	N/A	360 ft – 54" RCP; 2- FES; WK6
6	4	34.35030	88.29679	553+00	25-8S-9E	E	600	15	N/A	201 ft - 10X6 RCB w/ 46 ft of 3:1 wingwalls 600 ft - Fill channel and relocate
7	5	34.35953	88.27171	607+00	30-8S-10E	E	220	6	N/A	224 ft- 72" RCP w/ 2FES 220 ft- Fill channel and relocate
8	7	34.36532	88.27171	650+00	30-8S-10E	P	200	8	Gum Creek Trib.	140 ft- New Shading for new bridge site; 300 ft of riprap armoring on embankment slopes to toe
9	7	34.36874	88.26818	664+80	20-8S-10E	E	760	5	N/A	422 ft- New 8X6 RCB; 46 ft of 3:1 wingwalls 760 ft – Fill Channel and Relocate
10	8	34.37612	88.26304	696+00	20-8S-10E	P	200	12	Panther Creek	140 ft – New Shading for new bridge site; 200 ft of temporary sediment stone berm along top of banks; WK11
11	9	34.38488	88.25363	737+70	16-8S-10E	E	630	4	N/A	630 ft – Fill channel and Relocate
12	9	34.38623	88.25089	742+80	16-8S-10E	E	1200	5	N/A	1200 ft – Fill channel and Relocate
13	9	34.38857	88.24939	756+00	16-8S-10E	P	200	8	Chubby Creek Tribs.	140 ft – New shading for new bridge site; WK13
14	10	34.39081	88.24732	766+50	16-8S-10E	P	200	20	Chubby Creek	140 ft – New Shading for new bridge site; 170 ft of temporary sediment stone berm along top of banks; WK14
15	11	34.39429	88.23553	803+70	10-8S-10E	E	890	4	N/A	890 ft – Fill channel and relocate; 344 ft 54" RCP w/ 2 FES; WK15
16	11	34.39516	88.23351	808+50	10-8S-10E	E	705	4	N/A	705 ft – Fill channel and relocate; 235' DBL 8X6 RCB w/ 46 ft of 3:1 Wingwalls; WK15
17	12	34.39685	88.22766	830+00	10-8S-10E	E	638	5	N/A	344 ft 54" RCP with FES; 638 ft – Fill channel and Relocate; Wk16
18	13	34.39756	88.22267	841+00	10-8S-10E	E	600	5	N/A	264 ft of 60" RCP with FES; WK16
19	14	34.39847	88.22152	845+00	10-8S-10E	E	530	5	N/A	530 ft – Fill channel and Relocate



OW- Other Waters- Other Water assessment point location

Type:

P-Perennial

I-Intermittent

E-Ephemeral

FES – Flared End Section

OHWM-Ordinary High Water Mark

Station numbers (Sta.) are approximate

<b>OW Summary</b>	<b>Total Impacts</b>	<b>New Bridge Shade</b>	<b>Culvert Fill</b>	<b>Relocate and Fill</b>	<b>Riprap Armor</b>
<b>Total</b>	<b>11,994 lf</b>	<b>560 lf</b>	<b>2,963 lf</b>	<b>8,471 lf</b>	<b>300 lf</b>
<b>Perennial:</b>	560 lf	560 lf	0.00 lf	0.00 lf	300 lf
<b>Intermittent:</b>	0.00 lf	0.00 lf	0.00 lf	0.00 lf	0.00 lf
<b>Ephemeral:</b>	11,434 lf	0.00 lf	2,963 lf	8,471 lf	0.00 lf

**Table 3. Pond Assessment Table**

<b>Pond ID #</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Sta.</b>	<b>Section-Township-Range</b>	<b>Size (Acres)</b>	<b>Impact</b>
1	34.39555	88.23750	798+00-803+00	10-8S-10E	5.2	Manmade; Drain and Fill
2	34.39783	88.22178	843+60-848+70	11-8S-10E	5.3	Manmade; Drain and Fill
3	34.39762	88.21966	849+50-852+60	11-8S-10E	0.93	Manmade; Drain and Fill

**Pond Summary: 11.43 acres Total**



# Roadway and Bridge Plans

STATE OF MISSISSIPPI

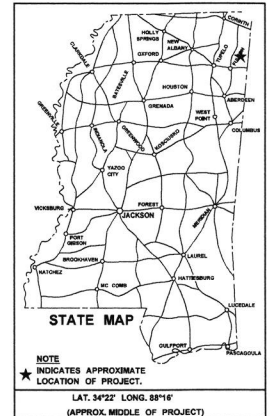
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY  
FEDERAL AID PROJECT NO.: NH-APD-0078-01(011)N**

S.R. 76  
BETWEEN FAIRVIEW AND S.R. 23  
ITAWAMBA COUNTY

FMS CON. NO. 102076301000

STATE	PROJECT NUMBER	SHEET NO.
MISSISSIPPI	NH-APD-0078-01(011)N	1



GENERAL INDEX

INCLUDED THIS PROJECT	BEGIN WITH SHEET
<input checked="" type="checkbox"/> ROADWAY	1
<input checked="" type="checkbox"/> PERMANENT SIGNS	1001
<input checked="" type="checkbox"/> TRAFFIC SIGNALS	2001
<input checked="" type="checkbox"/> ITS COMPONENTS	3001
<input checked="" type="checkbox"/> LIGHTING	4001
<input checked="" type="checkbox"/> (RESERVED)	5001
<input checked="" type="checkbox"/> ROADWAY STANDARD DWGS	6001
<input checked="" type="checkbox"/> BOX CULVERT STD. DRAWINGS (LRFD)	7001
<input checked="" type="checkbox"/> BOX CULVERT STD. DRAWINGS (STD. SPEC.)	7501
<input checked="" type="checkbox"/> BRIDGE	8001
<input checked="" type="checkbox"/> CROSS SECTIONS	9001

SCALES

PLAN	1 IN. = 100 FT.
PROFILE	HOR. 1 IN. = 100 FT.
	VERT. 1 IN. = 10 FT.
LAYOUT	1 IN. = 4000 FT.

B.O.P. STA. 439 + 50.000

E.O.P. STA. 922 + 00.000



- BRIDGE STRUCTURES REQ'D.**
- (A)** STA. 647+76.55 - STA. 651+83.38 LT. LN.  
STA. 648+57.58 - STA. 652+86.38 RT. LN.  
SPANS: 2@100', 1@110', 1@100'  
LENGTH: 412.78'  
SKEW: 35' RIGHT FORWARD
  - (B)** STA. 694+47.84 - STA. 698+79.06 LT. LN.  
STA. 694+43.83 - STA. 698+77.27 RT. LN.  
SPANS: 1@60', 1@130', 2@80'  
LENGTH: 432.33'  
SKEW: 15' LEFT FORWARD
  - (C)** STA. 753+90.88 - STA. 759+31.74 LT. LN.  
STA. 753+90.87 - STA. 759+34.51 RT. LN.  
SPANS: 9@60'  
LENGTH: 542.25'
  - (D)** STA. 765+58.21 - STA. 768+19.31 LT. LN.  
STA. 765+58.21 - STA. 768+20.46 RT. LN.  
SPANS: 3@40', 1@100', 1@40'  
LENGTH: 261.58'
- BOX BRIDGES REQ'D.**
- (E)** STA. 502+46 MAINLINE  
185' - DBL. 10'x8' RCB REQ'D.  
LENGTH ALONG C.L. 22.25'
  - (F)** STA. 38+40 FAIRVIEW BANNER RD.  
72' - DBL. 10'x4' RCB REQ'D.  
LENGTH ALONG C.L. 21.75'

DESIGN CONTROL

65 MPH = V (SPEED DESIGN)

ADT (2019) = 2000; ADT (2038) = 2700

DIV = 300; D = 80%; T = 32%

PERMITS ACQUIRED BY MDOT

WETLANDS AND WATERS PERMITS	WATERS	WETLANDS
NATIONWIDE #14	<input type="checkbox"/>	<input type="checkbox"/>
NATIONWIDE (OTHER)*	<input type="checkbox"/>	<input type="checkbox"/>
GENERAL*	<input type="checkbox"/>	<input type="checkbox"/>
INDIVIDUAL (404)*	<input type="checkbox"/>	<input type="checkbox"/>

STORMWATER PERMIT

Y REGULATED DISCHARGE BY MDOT (RESTRICTED AREA - 5 ACRES)

S HIGHWAY SCHED. TO BE SUBMITTED BY CONTRACTOR (1 TO 4 ACRES)

N NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY:

ACCESS CONTROL

NOTES:

- Access to and exit from this highway will be permitted only through interchanges or such other points as may be established by public authority and as shown on the plans.
- This note applies the following station limits: STA. 441+07.002 to STA. 877+50. This project is declared by the Transportation Commission to be Type 2B Controlled Access Facility as defined in and subject to all restrictions shown by order of said Commission dated 27 day of November 2008 in minute book 11, page 847 and authorized under section 65-1-101(MCA (1975, as amended).

CONVENTIONAL SYMBOLS

COUNTY LINE	---
TOWN CORPORATION LINE	---
SECTION LINE	---
EXISTING ROAD OR TRAVELED WAY	---
PROPOSED ROAD OR TRAVELED WAY	---
RAILROAD	---
SURVEY LINE	---
BRIDGES	---

EQUATIONS

815 + 26.892 BK = 815 + 07.644 AH. + 19.248

LENGTH DATA

LENGTH OF ROADWAY	46619.238 FT.	8.829 MI.
LENGTH OF BRIDGES	1650.010 FT.	0.313 MI.
LENGTH OF PROJECT (NET)		9.161 MI.
LENGTH OF EXCEPTIONS	0.000 FT.	
LENGTH OF PROJECT (GROSS)		9.161 MI.

EXCEPTIONS  
NONE

P S & E DATE: 06/27/2019

APPROVED:

DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER

EXECUTIVE DIRECTOR

**MDOT**  
MISSISSIPPI DEPARTMENT OF TRANSPORTATION



TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	SF	
SUPER SILT FENCE	L.F.	SSF	570
WATTLES 12"	L.F.		
TRIANGULAR SILT DIKE	L.F.		
SANDBAGS	L.F.		
RIPRAP	TON	DRP	230.9
EROSION CHECKS	BALE	EROS	2
TYPE D SILT BASINS	EACH		2

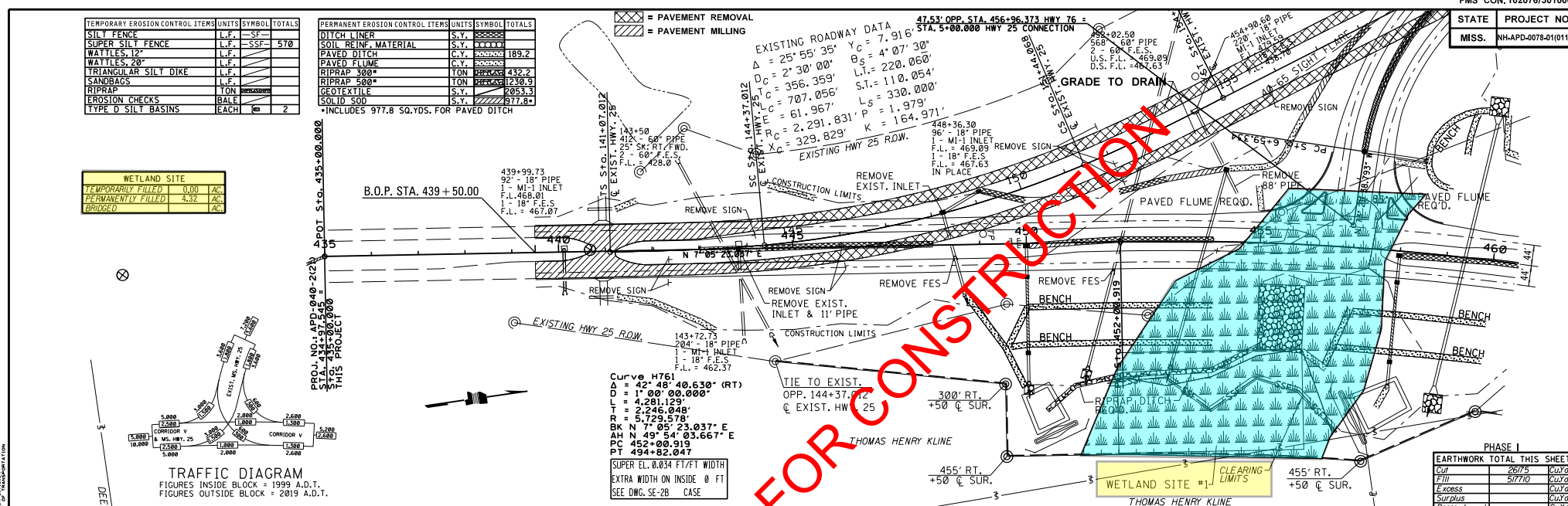
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DITCH LINER	S.Y.	DLN	286.33
SOIL REIN. MATERIAL	C.Y.	SRM	189.2
PAVED FLUME	TON	PFM	432.2
RIPRAP 300"	TON	DRP	230.9
RIPRAP 500"	TON	DRP	230.9
GEOTEXTILE	S.Y.	GT	205.3
SOLID 500	S.Y.	SS	877.8

\*INCLUDES 977.8 SQ.YDS. FOR PAVED DITCH

WETLAND SITE	
TEMPORARILY FILLED	0.00 AC
PERMANENTLY FILLED	4.32 AC
BRIDGED	0.00 AC

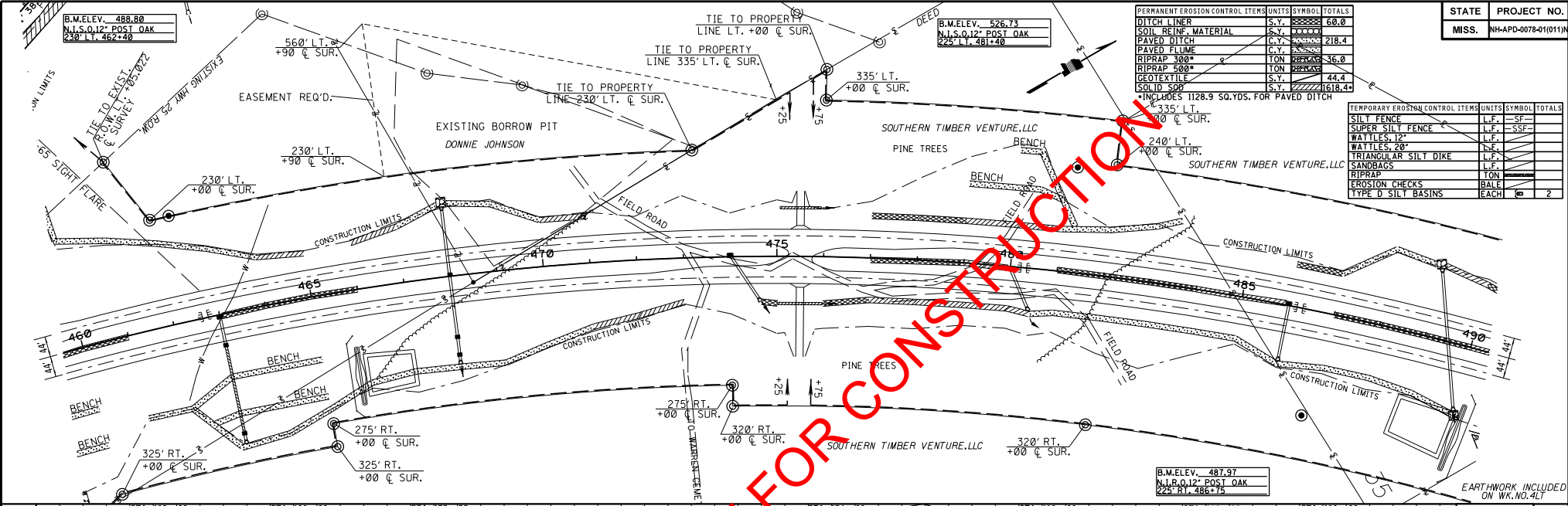
**TRAFFIC DIAGRAM**  
 FIGURES INSIDE BLOCK = 1999 A.D.T.  
 FIGURES OUTSIDE BLOCK = 2019 A.D.T.

- [Symbol] = PAVEMENT REMOVAL
- [Symbol] = PAVEMENT MILLING



STA.	443+85	448+140	450+100	450+100	451+85	453+85	455+50	458+00	
500	MI-1 REQ'D. H = MIN. (FIELD DETERMINE) F.L. EXISTING PIPE	EXTEND EXIST. PIPE RT. 88'-18" RCP REQ'D. SK. 15 RT. FWD. 1'-18" PE-1 REQ'D. US. FL. 468.65 (EXIST. PIPE) DS. FL. 462.99	TYPE: D' SILT BASIN REQ'D. RT. H = 100' SED. STONE = 37.58 TONS RIPRAP = 180.00 TONS D.A. = 4.88 AC	136'-18" RCP REQ'D. 18'-18" ALT. PIPE REQ'D. MI-4A REQ'D. H = 3' US. FL. 475.69 DS. FL. 474.09 DITCH PLUS REQ'D.	EXTEND EXIST. PIPE RT. 264'-66" CLASS V RCP REQ'D. CLASS 'B' BEDDING SK. 15 RT. FWD. 1'-60" PE-1 REQ'D. U.S. 433.84 (EXIST. PIPE) D.S. 433.84	REMOVE 88' EXIST. PIPE 432'-18" CLASS V RCP REQ'D. CLASS 'B' BEDDING SK. 15 RT. FWD. H = 3' TOP = 465.93 OPENINGS @ 18" TOP = 465.83 FL = 457.36 (EXIST. PIPE) DS FL = 441.49	TYPE: D' SILT BASIN REQ'D. RT. H = 125' SED. STONE = 46.88 TONS RIPRAP = 225.00 TONS D.A. = 9.63 AC	104'-18" RCP REQ'D. 176'-18" ALT. PIPE REQ'D. 1'-18" PE-1 REQ'D. MI-4A REQ'D. H = 3' TOP = 495.82 INV = 491.85 US. FL. 494.16 D.S. FL. 493.49	MI-4A REQ'D. TOP = 494.59 US. FL. 494.16
490									MI-4A REQ'D. TOP = 494.59 US. FL. 494.16
480									MI-4A REQ'D. TOP = 494.59 US. FL. 494.16
470									MI-4A REQ'D. TOP = 494.59 US. FL. 494.16
460									MI-4A REQ'D. TOP = 494.59 US. FL. 494.16
450									MI-4A REQ'D. TOP = 494.59 US. FL. 494.16
440									MI-4A REQ'D. TOP = 494.59 US. FL. 494.16
430									MI-4A REQ'D. TOP = 494.59 US. FL. 494.16

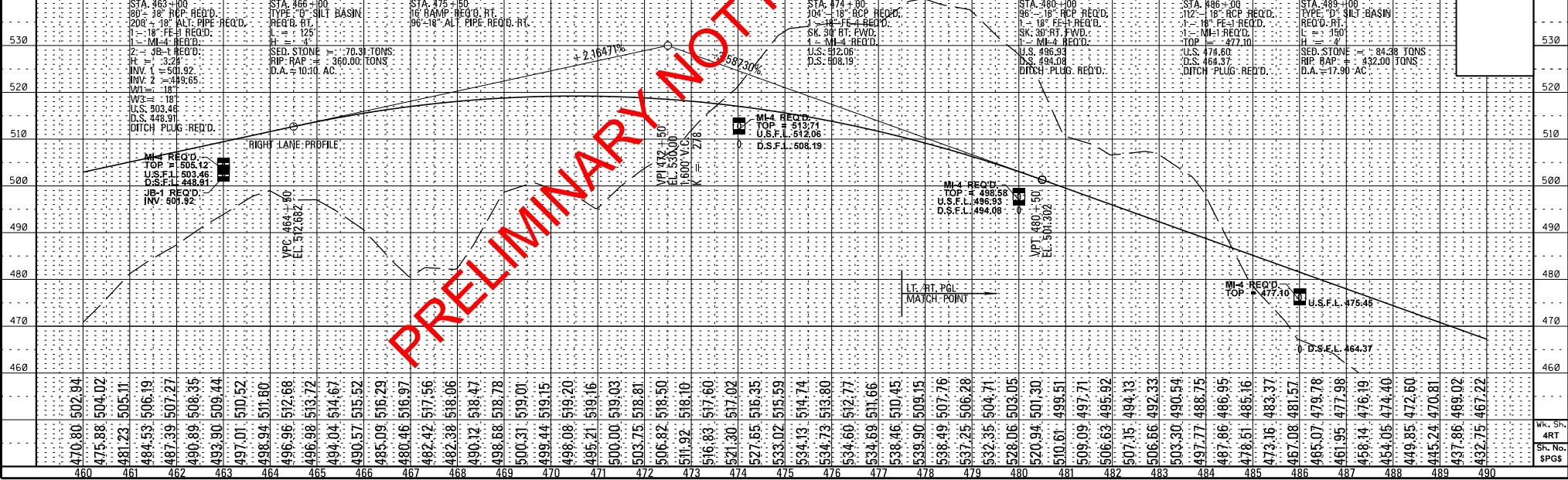
PRELIMINARY - NOT FOR CONSTRUCTION



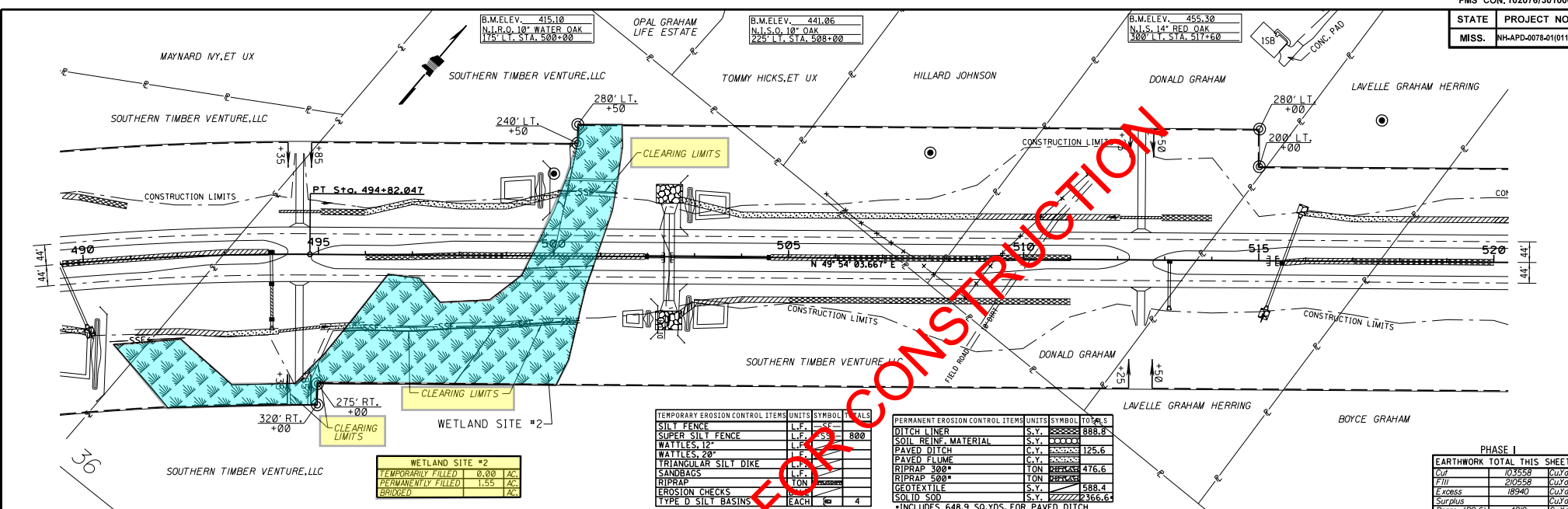
PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	████████	60.0
SOIL REIN. MATERIAL	S.Y.	████████	400.0
PAVED DITCH	C.Y.	████████	218.4
PAVED FLUME	C.Y.	████████	0.0
RIPRAP 300"	TON	████████	36.0
RIPRAP 500"	TON	████████	222.4
GEOTEXTILE	S.Y.	████████	44.4
SOLID SOD	S.Y.	████████	1618.4

\*INCLUDES 1128.9 SQ.YDS. FOR PAVED DITCH

TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	—SF—	0
SUPER SILT FENCE	L.F.	—SSF—	0
WATTLES 12"	L.F.	—W12—	0
WATTLES 20"	L.F.	—W20—	0
TRIANGULAR SILT DIKE	L.F.	—TSD—	0
SANDBAGS	L.F.	—SB—	0
RIPRAP	TON	—R—	0
EROSION CHECKS	BALE	—EC—	0
TYPE D SILT BASINS	EACH	—D—	2







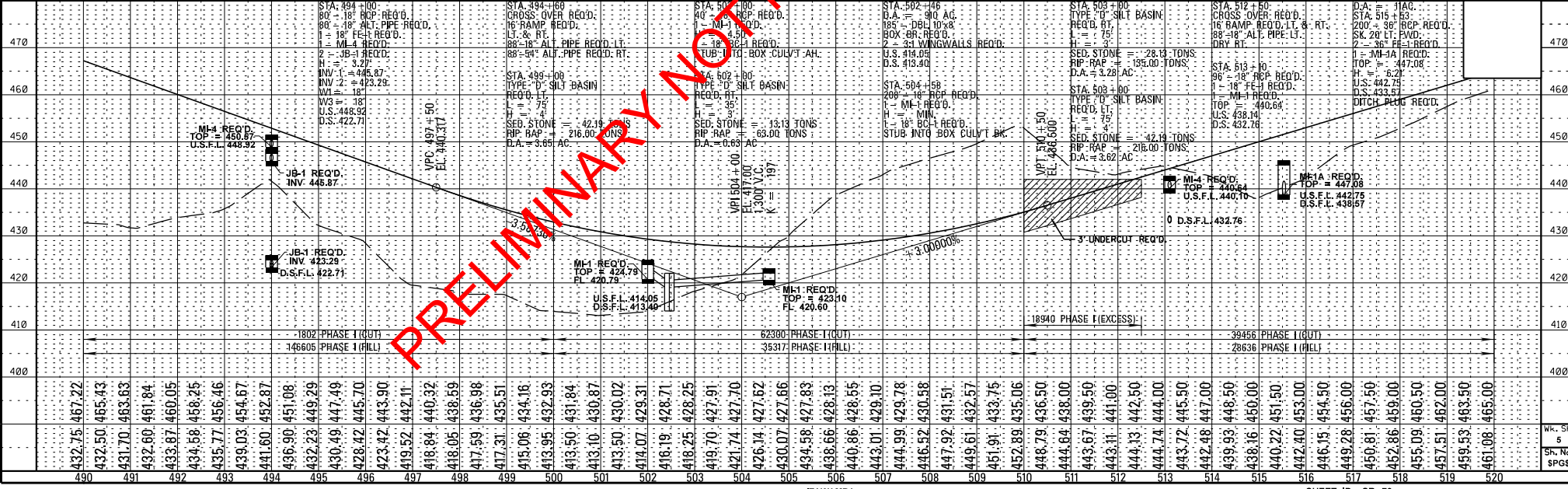
TEMPORARY EROSION CONTROL ITEMS				UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	1	800			800
SUPER SILT FENCE	L.F.	1				
WATTLES 12"	L.F.	1				
TRIANGULAR SILT DIKE	L.F.	1				
SANDBAGS	L.F.	1				
RIPRAP	TON	1				
EROSION CHECKS	EA	1				
TYPE D SILT BASINS	EA	1				

PERMANENT EROSION CONTROL ITEMS				UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	1	888.8			888.8
SOIL REIN. MATERIAL	S.Y.	1				
PAVED DITCH	S.Y.	1	125.6			125.6
PAVED FILLING	S.Y.	1				
RIPRAP 300*	TON	1	476.6			476.6
RIPRAP 500*	TON	1				
GEOTEXTILE	S.Y.	1	588.4			588.4
SOILD 500	S.Y.	1	2366.6			2366.6
*INCLUDES 648.9 SQ.YDS. FOR PAVED DITCH						

WETLAND SITE #2	
TEMPORARILY FILLED	0.00 AC.
PERMANENTLY FILLED	1.35 AC.
BRIDGED	0 AC.

PHASE I	
EARTHWORK TOTAL THIS SHEET	
Cut	103558 CuYds
Fill	203558 CuYds
Excess	18940 CuYds
Surplus	4229 CuYds
Borrow (B9-E6)	4229 CuYds



STATION	GROUND ELEVATION	PROPOSED ELEVATION	PHASE I (CUT)	PHASE I (FILL)	PHASE I (EXCESS)	PHASE I (CUT)	PHASE I (FILL)	PHASE I (EXCESS)	W. ST. 5	ST. NO. SPGS
490	432.75	467.22								
491	432.50	465.43								
492	431.70	463.63								
493	432.60	461.84								
494	433.87	460.05								
495	434.56	458.25								
496	435.77	456.46								
497	439.03	454.67								
498	441.60	452.87								
499	436.90	451.08								
500	432.23	449.29								
501	430.49	447.49								
502	428.42	445.70								
503	423.42	443.90								
504	419.52	442.11								
505	418.84	440.32								
506	418.05	438.53								
507	417.59	436.74								
508	417.31	435.95								
509	415.06	433.16								
510	413.95	432.93								
511	413.50	431.84								
512	413.10	430.87								
513	413.50	430.02								
514	414.07	429.31								
515	418.19	428.71								
516	418.25	428.25								
517	419.70	427.91								
518	421.74	427.70								
519	426.14	427.62								
520	430.07	427.86								
521	434.58	427.83								
522	438.66	428.13								
523	440.36	428.55								
524	443.01	429.10								
525	444.99	429.78								
526	446.32	430.58								
527	447.92	431.51								
528	449.61	432.57								
529	451.91	433.75								
530	452.99	435.06								
531	448.79	436.50								
532	444.84	438.00								
533	443.67	439.50								
534	443.11	441.00								
535	444.13	442.50								
536	444.74	444.00								
537	443.72	445.50								
538	442.48	447.00								
539	439.93	448.50								
540	438.16	450.00								
541	440.22	451.50								
542	442.40	453.00								
543	446.15	454.50								
544	449.28	456.00								
545	450.81	457.50								
546	452.86	459.00								
547	455.09	460.50								
548	457.51	462.00								
549	459.93	463.50								
550	461.08	465.00								

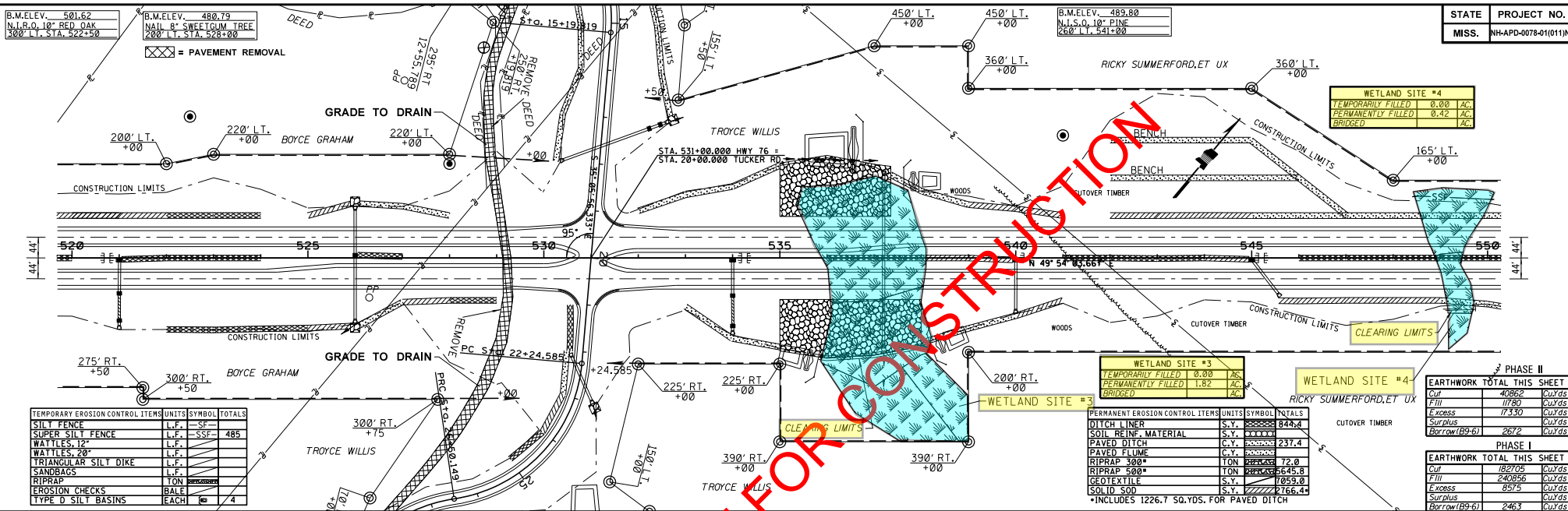


B.M.ELEV. 501.62  
N.I.R.O. 10' RED OAK  
300' LT. STA. 522+50

B.M.ELEV. 480.79  
NAIL 8" SWEETGUM TREE  
200' LT. STA. 528+00

B.M.ELEV. 489.80  
N.I.S.O. 18' PINE  
260' LT. STA. 541+00

XX = PAVEMENT REMOVAL



TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	SF	
SUPER SILT FENCE	L.F.	SSF	485
W/TILES 20"	L.F.		
TRIANGULAR SILT DIKE	L.F.		
SANDBAGS	L.F.		
RIPRAP	TON		
EROSION CHECKS	EA		
TYPE D SILT BASINS	EACH		4

WETLAND SITE #3	
TEMPORARILY FILLED	0.00 AC
PERMANENTLY FILLED	1.82 AC
BRIDGED	0.00 AC

WETLAND SITE #4	
TEMPORARILY FILLED	0.00 AC
PERMANENTLY FILLED	0.42 AC
BRIDGED	0.00 AC

EARTHWORK TOTAL THIS SHEET	
Cut	40862 CuYds
Fill	17780 CuYds
Excess	17350 CuYds
Surplus	2672 CuYds
Borrow (B9-B)	2672 CuYds

EARTHWORK TOTAL THIS SHEET	
Cut	182705 CuYds
Fill	248896 CuYds
Excess	8575 CuYds
Surplus	2463 CuYds
Borrow (B9-B)	2463 CuYds

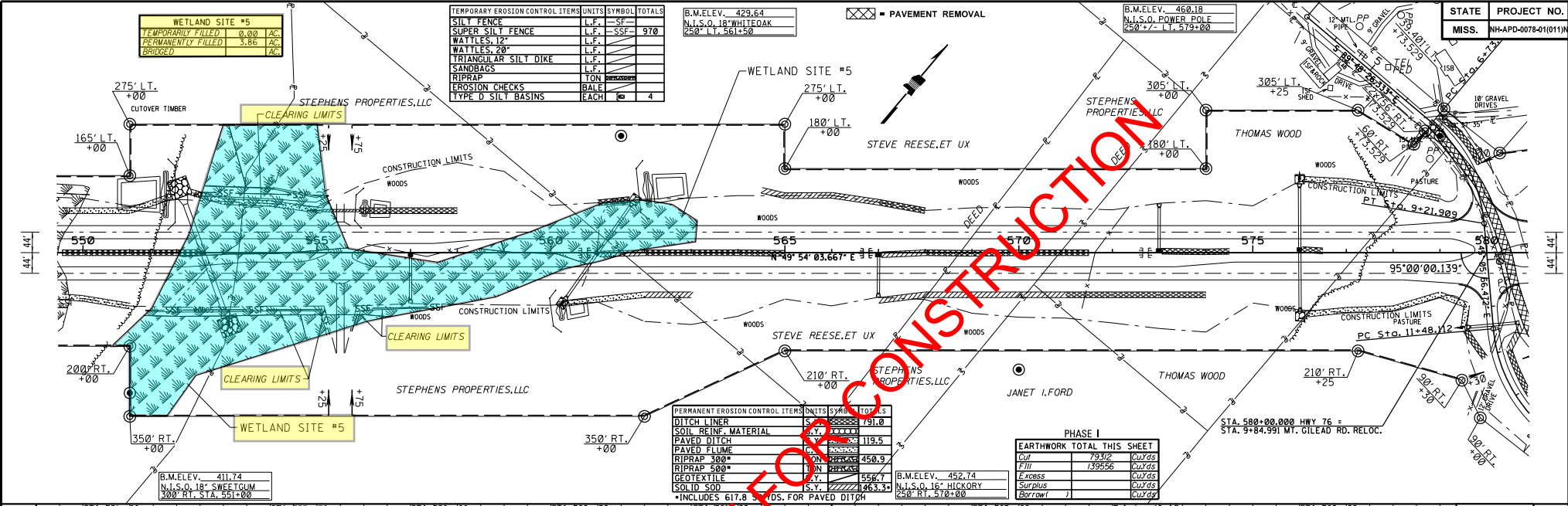
STATION	DESCRIPTION	TOP	INVERT	D.S.F.L.	D.S.F.L.	PHASE	STATION	DESCRIPTION	TOP	INVERT	D.S.F.L.	D.S.F.L.	PHASE
520	STA. 521+00	465.00				9103 PHASE I (CUT)	520	STA. 521+00	465.00				9103 PHASE I (CUT)
521	30' - 18" RCP REQ'D.	466.46				9103 PHASE I (CUT)	521	30' - 18" RCP REQ'D.	466.46				9103 PHASE I (CUT)
522	64' - 18" ALT. PIPE REQ'D.	467.83				9103 PHASE I (CUT)	522	64' - 18" ALT. PIPE REQ'D.	467.83				9103 PHASE I (CUT)
523	18' - 18" FE-1 REQ'D.	469.13				9103 PHASE I (CUT)	523	18' - 18" FE-1 REQ'D.	469.13				9103 PHASE I (CUT)
524	2 - 18" RCP REQ'D.	470.33				9103 PHASE I (CUT)	524	2 - 18" RCP REQ'D.	470.33				9103 PHASE I (CUT)
525	2 - 30" FE-1 REQ'D.	471.46				9103 PHASE I (CUT)	525	2 - 30" FE-1 REQ'D.	471.46				9103 PHASE I (CUT)
526	18' - 18" RCP REQ'D.	472.50				9103 PHASE I (CUT)	526	18' - 18" RCP REQ'D.	472.50				9103 PHASE I (CUT)
527	2 - 18" RCP REQ'D.	473.46				9103 PHASE I (CUT)	527	2 - 18" RCP REQ'D.	473.46				9103 PHASE I (CUT)
528	2 - 30" FE-1 REQ'D.	474.33				9103 PHASE I (CUT)	528	2 - 30" FE-1 REQ'D.	474.33				9103 PHASE I (CUT)
529	18' - 18" RCP REQ'D.	475.13				9103 PHASE I (CUT)	529	18' - 18" RCP REQ'D.	475.13				9103 PHASE I (CUT)
530	2 - 18" RCP REQ'D.	475.83				9103 PHASE I (CUT)	530	2 - 18" RCP REQ'D.	475.83				9103 PHASE I (CUT)
531	2 - 30" FE-1 REQ'D.	476.46				9103 PHASE I (CUT)	531	2 - 30" FE-1 REQ'D.	476.46				9103 PHASE I (CUT)
532	18' - 18" RCP REQ'D.	477.00				9103 PHASE I (CUT)	532	18' - 18" RCP REQ'D.	477.00				9103 PHASE I (CUT)
533	2 - 18" RCP REQ'D.	477.83				9103 PHASE I (CUT)	533	2 - 18" RCP REQ'D.	477.83				9103 PHASE I (CUT)
534	2 - 30" FE-1 REQ'D.	478.33				9103 PHASE I (CUT)	534	2 - 30" FE-1 REQ'D.	478.33				9103 PHASE I (CUT)
535	18' - 18" RCP REQ'D.	478.46				9103 PHASE I (CUT)	535	18' - 18" RCP REQ'D.	478.46				9103 PHASE I (CUT)
536	2 - 18" RCP REQ'D.	478.50				9103 PHASE I (CUT)	536	2 - 18" RCP REQ'D.	478.50				9103 PHASE I (CUT)
537	2 - 30" FE-1 REQ'D.	478.66				9103 PHASE I (CUT)	537	2 - 30" FE-1 REQ'D.	478.66				9103 PHASE I (CUT)
538	18' - 18" RCP REQ'D.	478.83				9103 PHASE I (CUT)	538	18' - 18" RCP REQ'D.	478.83				9103 PHASE I (CUT)
539	2 - 18" RCP REQ'D.	478.93				9103 PHASE I (CUT)	539	2 - 18" RCP REQ'D.	478.93				9103 PHASE I (CUT)
540	2 - 30" FE-1 REQ'D.	479.09				9103 PHASE I (CUT)	540	2 - 30" FE-1 REQ'D.	479.09				9103 PHASE I (CUT)
541	18' - 18" RCP REQ'D.	479.33				9103 PHASE I (CUT)	541	18' - 18" RCP REQ'D.	479.33				9103 PHASE I (CUT)
542	2 - 18" RCP REQ'D.	479.46				9103 PHASE I (CUT)	542	2 - 18" RCP REQ'D.	479.46				9103 PHASE I (CUT)
543	2 - 30" FE-1 REQ'D.	479.66				9103 PHASE I (CUT)	543	2 - 30" FE-1 REQ'D.	479.66				9103 PHASE I (CUT)
544	18' - 18" RCP REQ'D.	479.83				9103 PHASE I (CUT)	544	18' - 18" RCP REQ'D.	479.83				9103 PHASE I (CUT)
545	2 - 18" RCP REQ'D.	479.93				9103 PHASE I (CUT)	545	2 - 18" RCP REQ'D.	479.93				9103 PHASE I (CUT)
546	2 - 30" FE-1 REQ'D.	480.09				9103 PHASE I (CUT)	546	2 - 30" FE-1 REQ'D.	480.09				9103 PHASE I (CUT)
547	18' - 18" RCP REQ'D.	480.24				9103 PHASE I (CUT)	547	18' - 18" RCP REQ'D.	480.24				9103 PHASE I (CUT)
548	2 - 18" RCP REQ'D.	480.33				9103 PHASE I (CUT)	548	2 - 18" RCP REQ'D.	480.33				9103 PHASE I (CUT)
549	2 - 30" FE-1 REQ'D.	480.45				9103 PHASE I (CUT)	549	2 - 30" FE-1 REQ'D.	480.45				9103 PHASE I (CUT)
550	18' - 18" RCP REQ'D.	480.60				9103 PHASE I (CUT)	550	18' - 18" RCP REQ'D.	480.60				9103 PHASE I (CUT)

PRELIMINARY NOT FOR CONSTRUCTION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

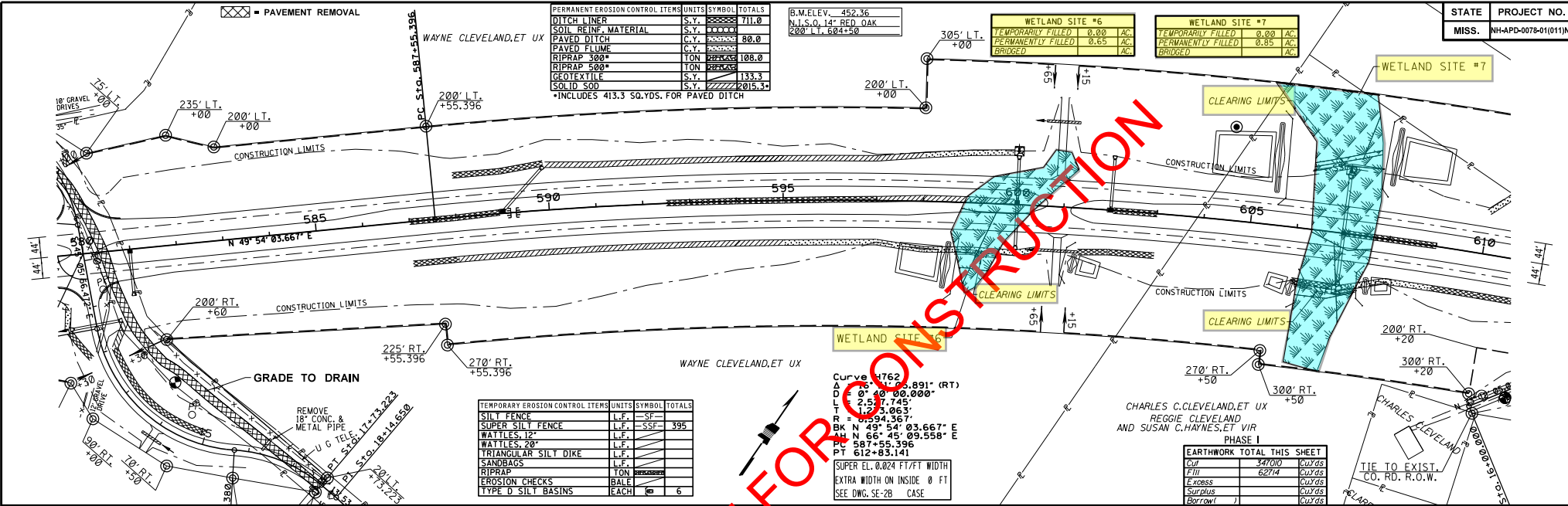
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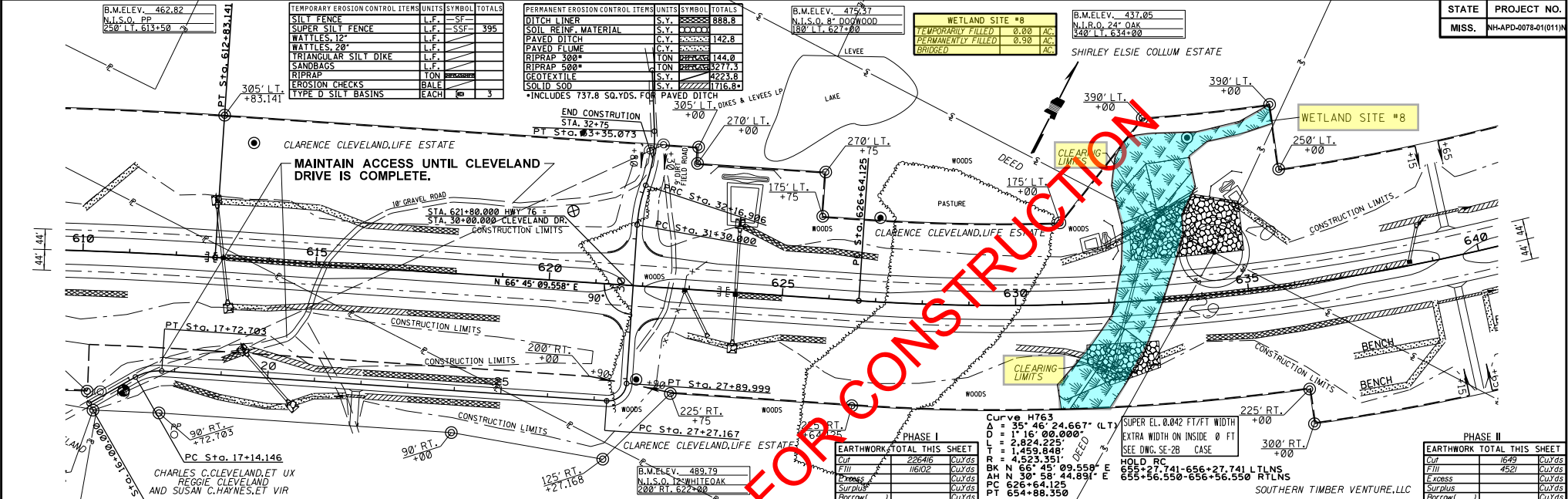
460	STA. 551+00 TYPE 'D' SILT BASIN REQ'D. LT. L=100	STA. 555+50 CROSS-OVER REQ'D. 16' BAMP REQ'D. LT. & RT. 300-18" ALT. PIPE LT. DRY RT.	STA. 556+00 TYPE 'D' SILT BASIN REQ'D. RT. L=90	STA. 560+50 TYPE 'D' SILT BASIN REQ'D. RT. L=90	STA. 564+00 TYPE 'D' SILT BASIN REQ'D. RT. L=90	STA. 567+00 DA = 58 AC 264 = 60' RCP REQ'D. 6" FE-1 REQ'D.	STA. 576+00 DA = 18 AC 248 = 36" CLASS IV RCP REQ'D. CLASS 70' BEDDING 9 = 36" FE-1 REQ'D.	STA. 580+00 CROSS-OVER REQ'D. TURNOUTS LT. & RT.	
450	SED. STONE = 56.25 TONS RIPRAP = 288.00 TONS D.A. = 6.50 AC		SED. STONE = 26.25 TONS RIPRAP = 157.50 TONS D.A. = 1.70 AC	SED. STONE = 15.00 TONS RIPRAP = 72.00 TONS D.A. = 1.38 AC					
440	DA = .197 AC 20' x 10' X 8' BOX CULT. REQ'D. SK 20' RT. F.W.D. 2 = 24" WINGWALLS REQ'D. 1 = MI-3 REQ'D. (TYPE I) TOP = 422.46 H = 215 U.S. F.L. 414.20 D.S.F.L. 412.27								
430		VPI 554+50 EL. 415.50 1500' V.C. X L = 281							
420									
410									





500	STA. 581+00 18" RCP REQ'D. 18" PE-1 REQ'D. M-I-4 REQ'D. D.S. 464.02	STA. 589+00 112" RCP REQ'D. SK. 44" LT. E.W.D. 18" PE-1 REQ'D. M-I-4 REQ'D. D.S. 468.48	STA. 598+00 TYPE "D" SILT BASINS REQ'D. RT. H = 100' D.S. 468.48	STA. 600+00 50' AC. 18" RCP REQ'D. 18" PE-1 REQ'D. M-I-4 REQ'D. D.S. 438.29	STA. 601+50 TYPE "D" SILT BASINS REQ'D. RT. H = 350' D.S. 438.29	STA. 602+00 112" RCP REQ'D. 18" PE-1 REQ'D. M-I-4 REQ'D. D.S. 438.00	STA. 606+00 TYPE "D" SILT BASINS REQ'D. RT. H = 35' D.S. 438.00	STA. 607+00 D.A. = 35 AC. 224" 72" CLASS IV RCP REQ'D. 22" 72" PE-1 REQ'D. M-I-4 REQ'D. D.S. 452.48	500
490								STA. 608+00 TYPE "D" SILT BASINS REQ'D. RT. H = 125' D.S. 438.00	490
480								STA. 608+00 TYPE "D" SILT BASINS REQ'D. RT. H = 35' D.S. 438.00	480
470								SED. STONE = 13.13 TONS RIP RAP = 63.00 TONS D.A. = 0.37 AC	470
460								SED. STONE = 13.13 TONS RIP RAP = 63.00 TONS D.A. = 1.35 AC	460
450									450
440									440
430									430





Station	Description	Phase I (Cut)	Phase I (Fill)	Phase II (Cut)	Phase II (Fill)
500	STA. 619+00 D.A. = 46 AC 200' - 60" RCP RECD. SK 10 RT FWD. H = 90' FE-1 RECD.				
490	U.S. 442.89 D.S. 447.78 H = 31' DITCH PLUG RECD.				
480	STA. 621+00 GROSS OVER RECD. TURNOUTS LT. & RT. H = 30' FE-1 RECD.				
470	STA. 622+90 H2' - 18" RCP RECD. SK 30 RT FWD. H = 18' FE-1 RECD. MI-1 RECD.				
460	TOP = 471.16 H = MIN. U.S. 468.06 D.S. 466.30				
450	STA. 624+00 TYPE 'D' SILT BASIN RECD. LT. H = 10' U.S. 477.00 D.S. 477.00				
440	SED. STONE = 19.69 TONS RIP RAP = 100.80 TONS D.A. = 66 AC				
430	STA. 632+12 D.A. = 21 AC 328' - 32" CLASS IV RCP RECD. CLASS 'B' BEDDING SK 30 RT FWD. H = 42' FE-1 RECD.				
	SED. STONE = 33.13 TONS RIP RAP = 63.00 TONS D.A. = 1.33 AC				
	U.S. 455.00 D.S. 443.71				
	STA. 635+00 TYPE 'D' SILT BASIN RECD. LT. H = 39' U.S. 463.66 D.S. 463.66				
	TOP = 463.66 U.S. 481.29 D.S. 459.94				
	STA. 638+50 GROSS OVER RECD. RAMP LT. & RT. RECD. H = 24' FE-1 RECD. MI-4A RECD.				
	TOP = 463.66 U.S. 481.29 D.S. 459.94				



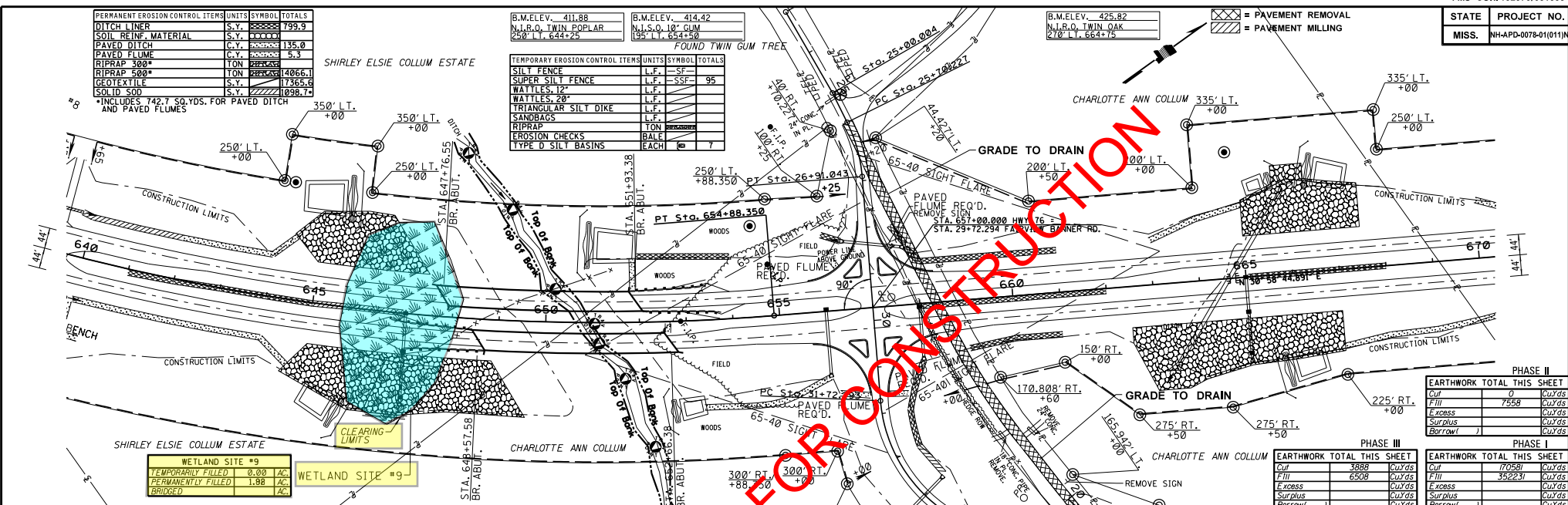
PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.		799.9
SOIL REINF. MATERIAL	S.Y.		135.0
PAVED DITCH	C.Y.		5.3
PAVED FLUME	TON		1486.6
RIPRAP 300*	TON		1735.6
RIPTAP 500*	TON		1098.7
GEOTEXTILE	S.Y.		1098.7
SOLID SOD	S.Y.		1098.7

\*INCLUDES 742.7 SQ.YDS. FOR PAVED DITCH AND PAVED FLUMES

B.M.ELEV.	411.88	414.42	425.82
N.I.R.O. TWIN POPLAR			
250' LT. 644+25			
N.I.S.O. 10' GUM			
195' LT. 654+58			
FOUND TWIN GUM TREE			

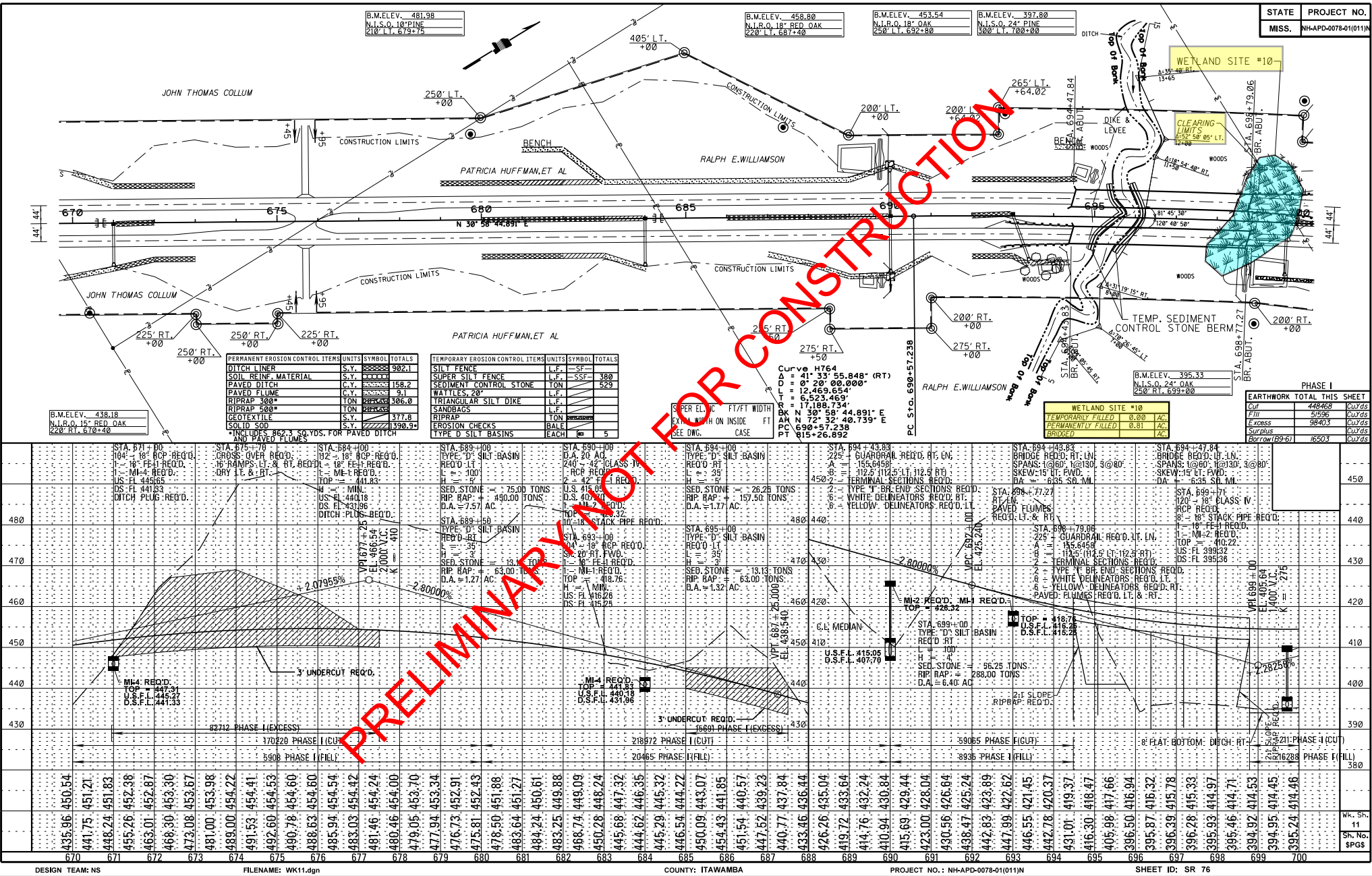
  

TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.		95
SUPER SILT FENCE	L.F.		95
WATTLES 12"	L.F.		95
WATTLES 28"	L.F.		95
TRIANGULAR SILT DIKE	L.F.		95
SANDBAGS	L.F.		95
RIPTAP	TON		95
EROSION CHECKS	EALE		7
TYPE 0 SILT BASINS	EACH		7



STA.	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670			
TYPE 'D' SILT BASIN																																		
BRIDGE REQ'D. LT. LN.																																		
SPAN: 2@100', 1@110'																																		
SED. STONE																																		
RIPTAP																																		
D.A.																																		
WETLAND SITE #9																																		
TEMPORARILY FILLED																																		
PERMANENTLY FILLED																																		
BRIDGE																																		





PERMANENT EROSION CONTROL ITEMS				TEMPORARY EROSION CONTROL ITEMS			
SYMBOL	UNITS	TOTALS	SYMBOL	UNITS	TOTALS		
S.Y.	902.1		S.F.				
SOIL REIN. MATERIAL	S.Y.	902.1	SUPER SILT FENCE	L.F.	380		
PAVED DITCH	C.Y.	158.2	SEDIMENT CONTROL STONE	TON	529		
PAVED FLUME	C.Y.	9.1	WATTLES 20'	L.F.			
RIPRAP 300*	TON	306.0	TRIANGULAR SILT DIKE	L.F.			
RIPRAP 500*	TON		SANDBAGS	L.F.			
GEOTEXTILE	S.Y.	377.8	RIPRAP	TON			
SOLID 500	S.Y.	1390.9	EROSION CHECKS	BALE			
*INCLUDES 862.3 SQ. YDS. FOR PAVED DITCH AND PAVED FLOWS				TYPE D SILT BASINS EACH 5			

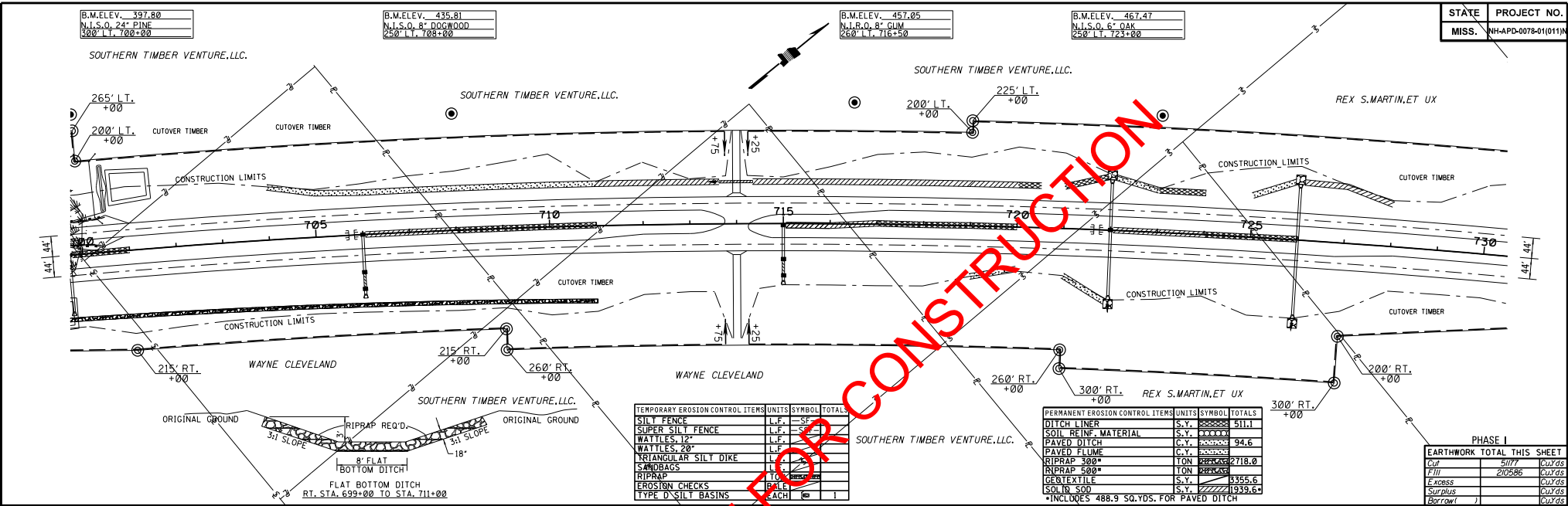
WETLAND SITE #10		WETLAND SITE #11	
TEMPORARILY FILLED	0.00 AC	TEMPORARILY FILLED	0.00 AC
PERMANENTLY FILLED	0.00 AC	PERMANENTLY FILLED	0.00 AC
BRIDGED	0.00 AC	BRIDGED	0.00 AC

EARTHWORK TOTAL THIS SHEET	
CUT	48468 CUT/FS
FILL	51596 CUT/FS
EXCESS	98403 CUT/FS
Surplus	Surplus CUT/FS
Barrow (FS-6)	16503 CUT/FS

MICHAEL BAKER CORPORATION

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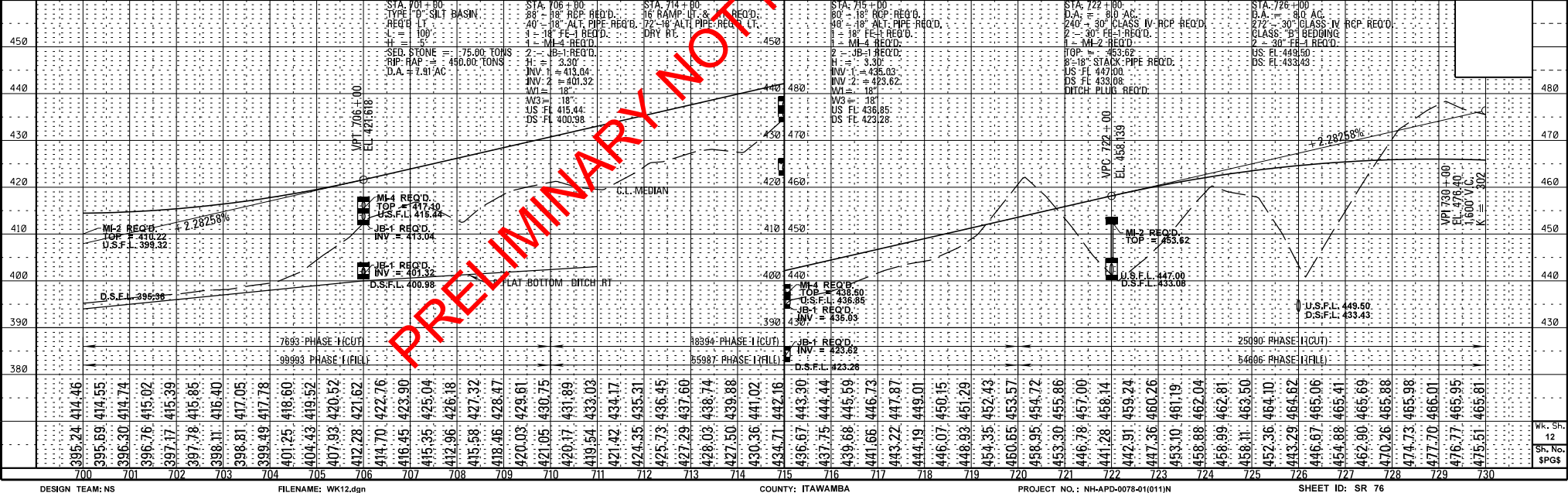




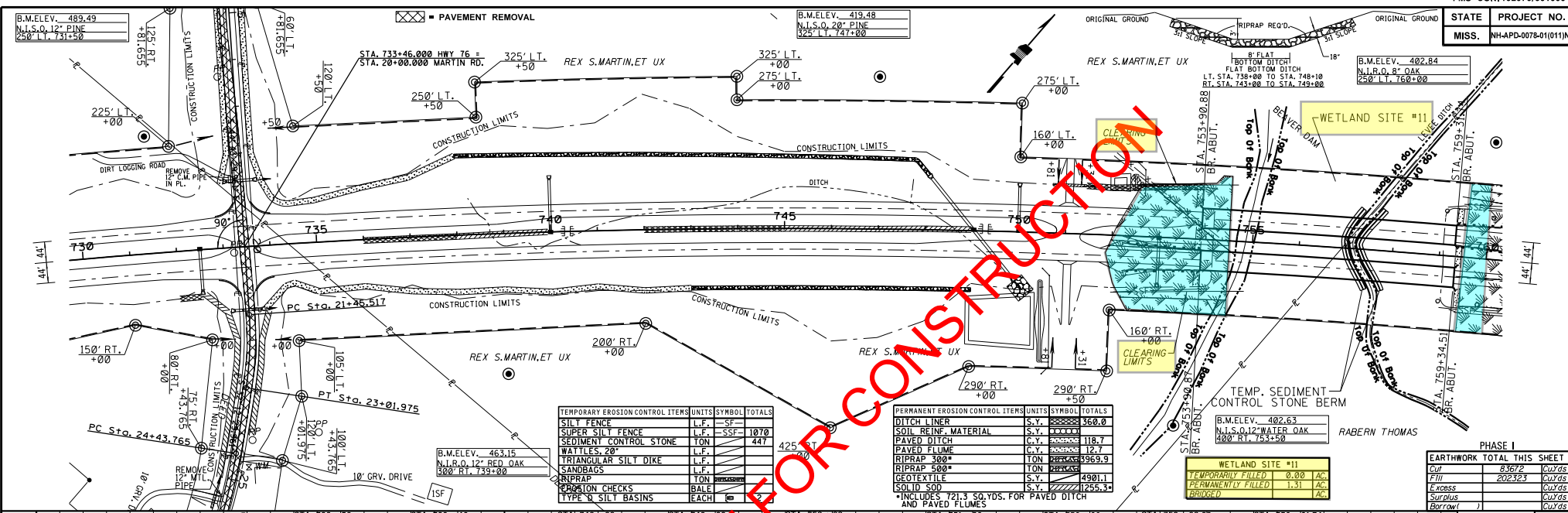
TEMPORARY EROSION CONTROL ITEMS			
UNITS	SYMBOL	TOTALS	
SILT FENCE	L.F.	511	
SUPER SILT FENCE	L.F.	511	
WATTLES 12"	L.F.	511	
WATTLES 28"	L.F.	511	
TRIANGULAR SILT DIKE	L.F.	511	
SANDBAGS	TON	2718.0	
RIPRAP 500*	TON	3355.6	
EROSION CHECKS	EA	1939.6	
TYPE D SILT BASINS	EACH	1	

PERMANENT EROSION CONTROL ITEMS			
UNITS	SYMBOL	TOTALS	
DITCH LINER	S.Y.	511	
SOIL REINF. MATERIAL	C.Y.	94.6	
PAVED DITCH	C.Y.	2718.0	
PAVED FLOVE	C.Y.	3355.6	
RIPRAP 300*	TON	1939.6	
RIPRAP 500*	TON	3355.6	
GEOTEXTILE	S.Y.	1939.6	
SOL IN 500	S.Y.	1939.6	

PHASE I EARTHWORK TOTAL THIS SHEET		
Cut	5117	Cut/Gr
Fill	20256	Cut/Gr
Excess		Cut/Gr
Surplus		Cut/Gr
Borrow	1	Cut/Gr







TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	SF	360.0
SUPER SILT FENCE	L.F.	SF	107.0
SEDIMENT CONTROL STONE	TON		447
WATTLES, 20"	L.F.		
TRIANGULAR SILT DIKE	L.F.		
GANDBAGS	L.F.		
RIPRAP	TON		
EROSION CHECKS	BALE		
TYPE 'D' SILT BASINS	EACH		2

PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.		360.0
SOIL REIN. MATERIAL	S.Y.		118.7
PAVED DITCH	C.Y.		12.7
PAVED FLUME	C.Y.		969.9
RIPRAP 500*	TON		490.1
GEOTEXTILE	S.Y.		1255.3
SOLID SOD	S.Y.		

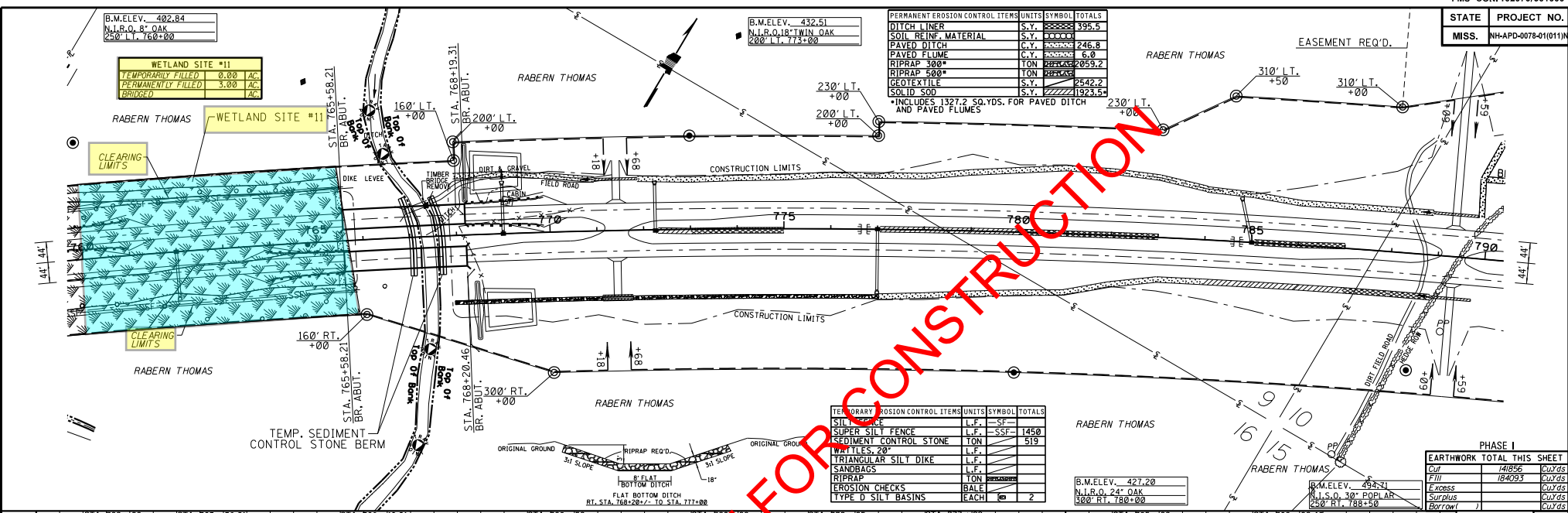
\*INCLUDES 721.3 SQ.YDS. FOR PAVED DITCH AND PAVED FLUMES

WETLAND SITE #11	
TEMPORARILY FILLED	0.00 AC.
PERMANENTLY FILLED	1.31 AC.
BRIDGED	1.00 AC.

PHASE I	
EXCESS	DEFICIT
202323	0
0	0

STATION	DESCRIPTION	PHASE I (CUT)	PHASE I (FILL)	PHASE I (CUT)	PHASE I (FILL)	PHASE I (CUT)	PHASE I (FILL)	PHASE I (CUT)	PHASE I (FILL)	PHASE I (CUT)	PHASE I (FILL)	PHASE I (CUT)	PHASE I (FILL)	PHASE I (CUT)	PHASE I (FILL)	PHASE I (CUT)	PHASE I (FILL)	PHASE I (CUT)	PHASE I (FILL)
730	STA. 732+50	39893	66732	43760	107203	19	23630	0	4875	0	0	0	0	0	0	0	0	0	0
731	STA. 733+46	475.51	465.81	476.31	465.58	478.28	465.27	472.97	464.88	464.66	464.41	466.90	463.86	474.97	463.72	479.30	462.50	471.30	461.69
732	STA. 734+42	457.00	460.81	443.70	459.84	441.23	458.79	437.58	457.65	434.16	456.43	434.37	455.13	429.69	453.75	425.46	452.28	425.66	450.78
733	STA. 735+38	426.82	449.27	424.66	447.76	421.58	446.25	419.32	444.75	418.04	443.24	416.64	441.73	415.42	440.23	414.14	438.72	413.55	437.21
734	STA. 736+30	413.55	435.70	412.96	434.20	412.15	432.69	413.03	431.18	414.28	429.87	415.01	428.17	415.04	426.66	415.03	425.15	412.86	423.65
735	STA. 737+22	407.33	422.14	406.19	420.68	405.60	419.31	405.53	418.04	405.68	416.86	405.20	415.78	404.77	414.79	403.93	413.90	403.02	413.09
736	STA. 738+14	402.27	412.39	401.48	411.78	400.88	411.26	399.54	410.50	398.49	410.27	398.38	410.13	398.71	410.08	399.13	410.08	399.89	410.08
737	STA. 739+06	399.96	410.08	399.45	410.08	399.16	410.08	398.76	410.08	398.80	410.08	398.65	410.08	398.85	410.08	398.85	410.08	398.85	410.08
738	STA. 740+00																		
739	STA. 741+00																		
740	STA. 742+00																		
741	STA. 743+00																		
742	STA. 744+00																		
743	STA. 745+00																		
744	STA. 746+00																		
745	STA. 747+00																		
746	STA. 748+00																		
747	STA. 749+00																		
748	STA. 750+00																		
749	STA. 751+00																		
750	STA. 752+00																		
751	STA. 753+00																		
752	STA. 754+00																		
753	STA. 755+00																		
754	STA. 756+00																		
755	STA. 757+00																		
756	STA. 758+00																		
757	STA. 759+00																		
758	STA. 760+00																		

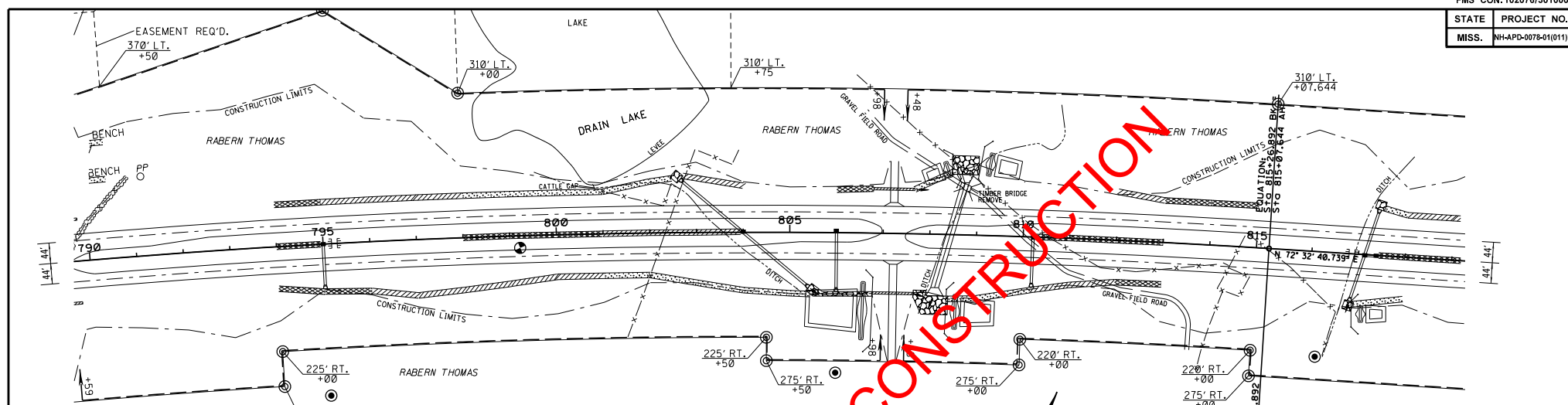




STA.	DESCRIPTION	QUANTITY	PHASE I		
			Exc	Surplus	Bottom
450	398.85 410.08				
440	399.07 410.08				
430	399.60 410.08				
420	399.78 410.08				
410	399.70 410.08				
400	399.83 410.12				
390	400.20 410.25				
380	400.21 410.46				
	400.18 410.75				
	400.56 411.33				
	401.04 411.60				
	400.98 412.15				
	400.71 412.78				
	401.85 413.49				
	403.23 414.29				
	395.47 415.18				
	402.69 416.15				
	406.23 417.20				
	412.45 418.34				
	412.99 419.56				
	410.72 420.87				
	409.62 422.26				
	410.30 423.74				
	411.24 425.29				
	413.09 426.94				
	414.59 428.62				
	413.83 430.31				
	414.08 432.00				
	415.09 433.68				
	415.92 435.37				
	416.77 437.05				
	417.78 438.74				
	418.85 440.43				
	423.22 442.11				
	428.70 443.80				
	431.90 445.48				
	430.89 447.17				
	428.25 448.85				
	425.99 450.54				
	429.89 452.23				
	433.40 453.91				
	436.93 455.60				
	440.56 457.28				
	445.75 458.97				
	451.00 460.66				
	457.47 462.30				
	464.95 463.84				
	470.80 465.30				
	475.53 466.67				
	478.59 467.94				
	479.39 469.12				
	481.39 470.21				
	485.87 471.21				
	491.48 472.12				
	496.22 472.94				
	499.79 473.67				
	498.83 474.30				
	499.28 474.84				
	500.35 475.29				
	498.80 475.65				
	498.15 475.92				

PRELIMINARY - NOT FOR CONSTRUCTION

18-1-22019.12.26.56.09.14.020



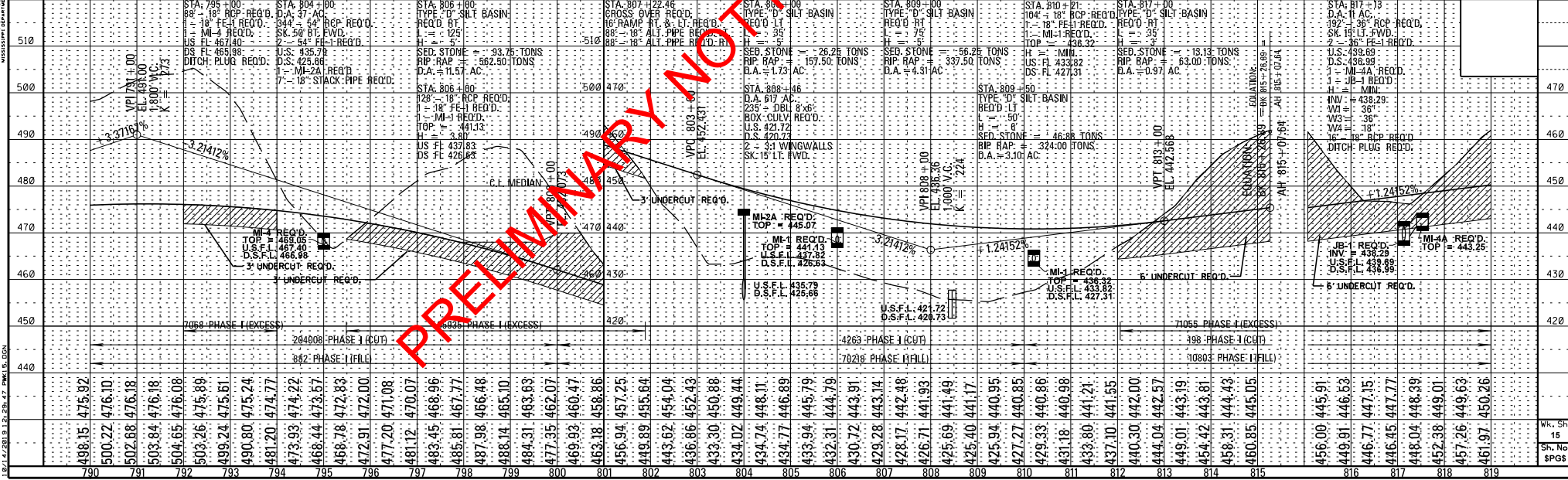
TEMPORARY EROSION CONTROL ITEMS				PERMANENT EROSION CONTROL ITEMS			
UNITS	SYMBOL	TOTALS	UNITS	SYMBOL	TOTALS		
SILT FENCE	L.F.	5	DITCH LINER	S.Y.	68		
SUPER SILT FENCE	L.F.	5	SOIL REINF. MATERIAL	S.Y.	68		
WATTLES 12"	L.F.	5	PAVED DITCH	S.Y.	68		
WATTLES 20"	L.F.	5	PAVED FLUME	S.Y.	68		
TRIANGULAR SILT DIKE	L.F.	5	RIPRAP 300"	TON	56.25		
SANDBAGS	L.F.	5	RIPRAP 500"	TON	159.50		
RIPRAP	TON	56.25	GEOTEXTILE	TON	159.50		
EROSION CHECKS	EACH	5	SOLID 500	TON	159.50		
TYPE D SILT BASINS	EACH	5	*INCLUDES 586.7 SQ.YDS. FOR DITCH				

B.M.ELEV. 453.50  
 N.I.P.O. 765 OAK  
 325' RT. 755+00

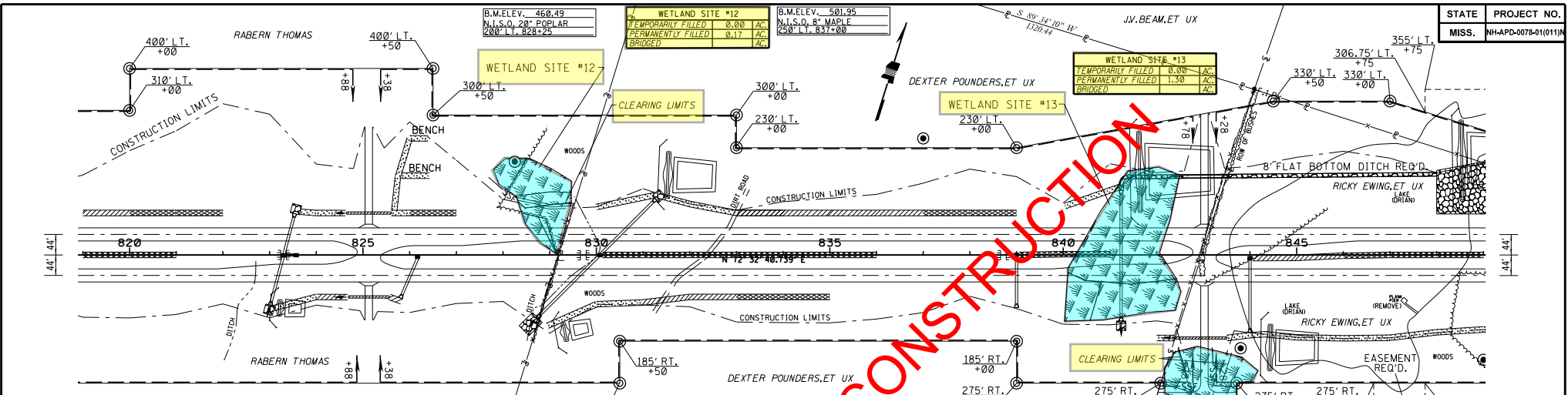
B.M.ELEV. 423.55  
 N.I.P.O. 8' TWIN CUM  
 300' RT. 805+00

PHASE I

EARTHWORK TOTAL THIS SHEET	
Fill	208.469 cu/Yds
Excav	890.3 cu/Yds
Surplus	160.08 cu/Yds
Borrow	816.20 cu/Yds







TEMPORARY EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
SILT FENCE	L.F.	SF	
SUPER SILT FENCE	L.F.	SSF	490
Wattles, 12"	L.F.		
Wattles, 20"	L.F.		
TRIANGULAR SILT DIKE	L.F.		
SANDBAGS	L.F.		
RIPRAP	TON		
EROSION CHECKS	BALE		
TYPE D SILT BASINS	EACH		6

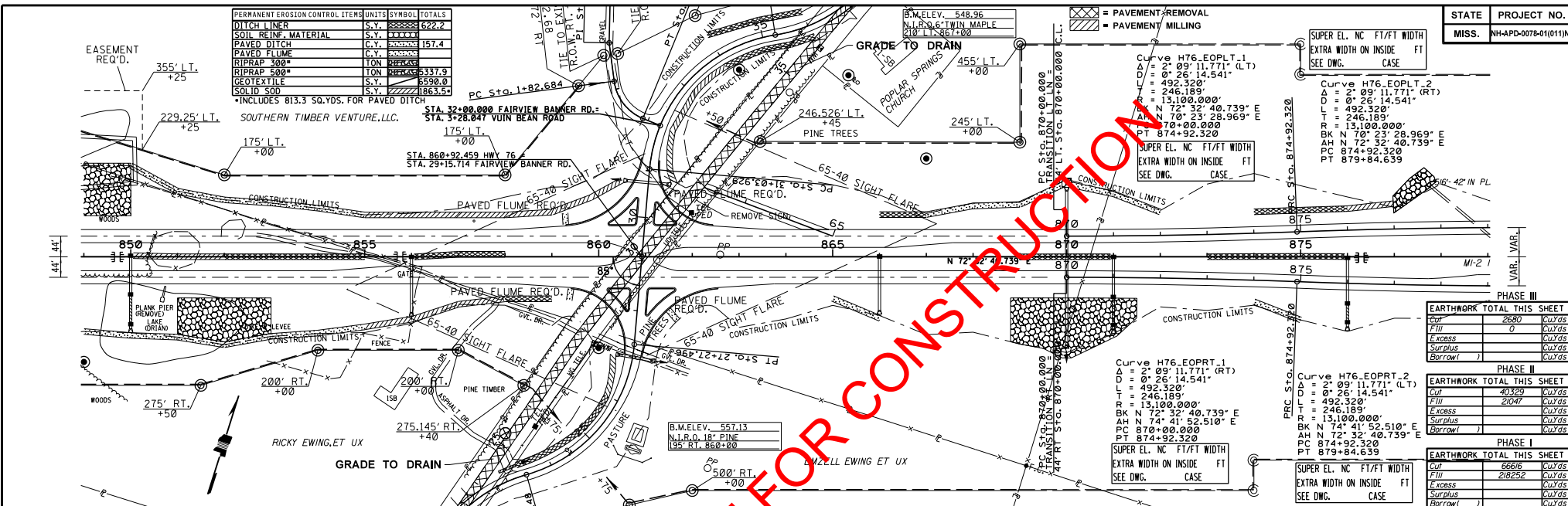
PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.		884.4
SOIL REINF. MATERIAL	S.Y.		136.7
PAVED DITCH	C.Y.		1901.7
PAVED FLUME	C.Y.		921.6
RIPRAP 300*	TON		848.6
RIPRAP 500*	TON		1596.74
GEOTEXTILE	S.Y.		1596.74
SOLID SOD	S.Y.		1596.74

\*INCLUDES 706.7 SQ.YDS. FOR PAVED DITCH

STATION	DESCRIPTION	UNITS	TOTALS
510	STA. 823+00 BA = 7.1 AC 192'-30" RCP REQ'D SK. 15 FT FWD 2'-30" FE-1 REQ'D U.S. 449.51 D.S. 445.67 L = MI-4A REQ'D 16'-18" RCP REQ'D 16'-18" RCP REQ'D STUBBED BACK DITCH PLUG REQ'D	TYPE 'D' SILT BASIN REQ'D RT H = 35' M = 18" W4 = 18" D.S. 449.51 D.S. 445.67 L = MI-4A REQ'D 16'-18" RCP REQ'D 16'-18" RCP REQ'D STUBBED BACK DITCH PLUG REQ'D	490
500	STA. 825+12.46 H = MIN INV = 447.88 W1 = 30" W3 = 30" W4 = 18" 16'-18" RCP REQ'D DITCH PLUG REQ'D	SED. STONE = 19.68 TONS RIP RAP = 100.80 TONS D.A. = 1.62 AC STA. 825+12.46 TYPE 'D' SILT BASIN REQ'D RT H = 40' M = 18" W4 = 18" D.S. 449.51 D.S. 445.67 L = MI-4A REQ'D 16'-18" RCP REQ'D 16'-18" RCP REQ'D STUBBED BACK DITCH PLUG REQ'D	490
490	STA. 826+20 38'-18" RCP REQ'D SK. 24' LT. FWD 4'-18" FE-1 REQ'D 1'-18" FE-1 REQ'D U.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	TYPE 'D' SILT BASIN REQ'D RT H = 40' M = 18" W4 = 18" D.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	490
480	STA. 830+07 D.A. 50 AC 344'-54" CLASS IV RCP REQ'D SK. 45' LT. FWD 7'-60" FE-1 REQ'D U.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	TYPE 'D' SILT BASIN REQ'D RT H = 40' M = 18" W4 = 18" D.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	480
470	STA. 832+50 H = MIN INV = 447.88 W1 = 30" W3 = 30" W4 = 18" 16'-18" RCP REQ'D DITCH PLUG REQ'D	SED. STONE = 37.50 TONS RIP RAP = 180.00 TONS D.A. = 5.43 AC STA. 832+50 TYPE 'D' SILT BASIN REQ'D RT H = 40' M = 18" W4 = 18" D.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	470
460	STA. 834+10 D.A. 50 AC 344'-54" CLASS IV RCP REQ'D SK. 45' LT. FWD 7'-60" FE-1 REQ'D U.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	TYPE 'D' SILT BASIN REQ'D RT H = 40' M = 18" W4 = 18" D.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	460
450	STA. 836+10 D.A. 50 AC 344'-54" CLASS IV RCP REQ'D SK. 45' LT. FWD 7'-60" FE-1 REQ'D U.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	TYPE 'D' SILT BASIN REQ'D RT H = 40' M = 18" W4 = 18" D.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	450
440	STA. 838+10 D.A. 50 AC 344'-54" CLASS IV RCP REQ'D SK. 45' LT. FWD 7'-60" FE-1 REQ'D U.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	TYPE 'D' SILT BASIN REQ'D RT H = 40' M = 18" W4 = 18" D.S. 446.63 D.S. 438.17 L = MI-2A REQ'D 10' x 18" STAGN. PIPE REQ'D DITCH PLUG REQ'D	440

PHASE I  
EARTHWORK TOTAL THIS SHEET

Cut	237839	CuYds
Fill	20043	CuYds
Excess	10285	CuYds
Surplus	10285	CuYds
Barrow (P-6)	1681	CuYds



PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	XXXXXX	622.2
SOIL REIN. MATERIAL	S.Y.	XXXXXX	
PAVED FLUME	S.Y.	XXXXXX	157.4
RIPRAP 300*	TON	XXXXXX	5337.9
RIPRAP 500*	TON	XXXXXX	5590.0
SOIL TO 500	S.Y.	XXXXXX	1863.2

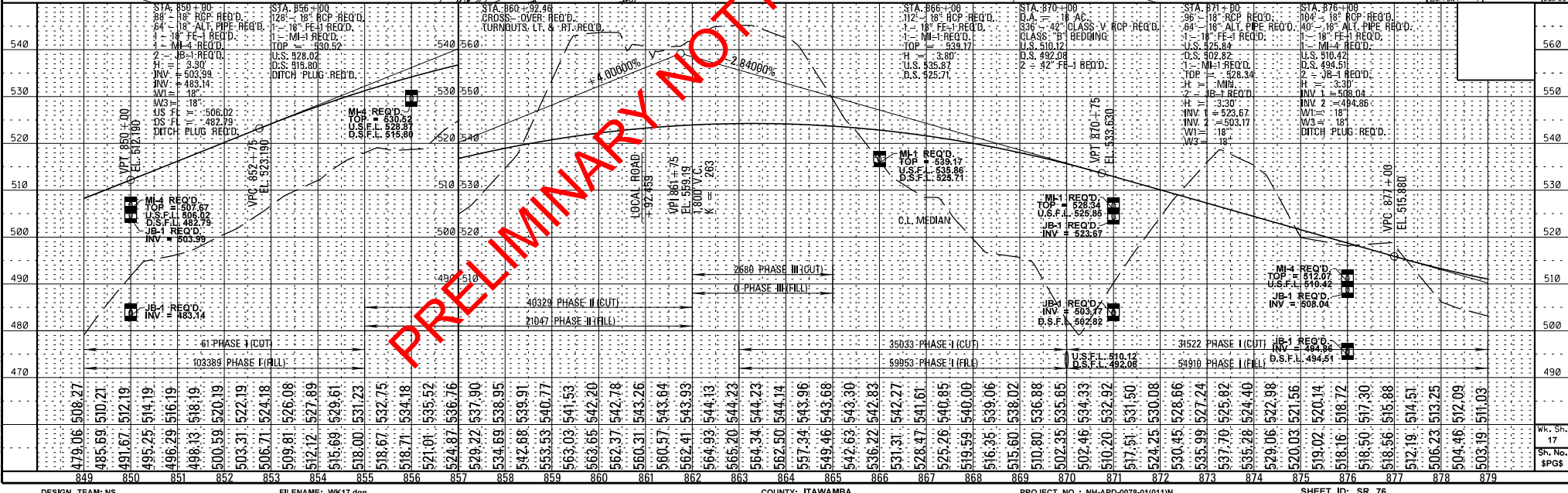
\*INCLUDES 813.3 SQ.YDS. FOR PAVED DITCH

CURVE DATA	VALUES
Curve H76_EOPLT.1	$\Delta = 2^\circ 09' 11.771''$ (LT) $D = 0^\circ 26' 14.541''$ $L = 492.320'$ $R = 246.189'$ $R = 13,100.000'$ $BK N 72^\circ 32' 40.739'' E$ $AH N 70^\circ 23' 28.969'' E$ $PC 874+92.320$ $PT 879+84.639$
Curve H76_EOPLT.2	$\Delta = 2^\circ 09' 11.771''$ (RT) $D = 0^\circ 26' 14.541''$ $L = 492.320'$ $R = 246.189'$ $R = 13,100.000'$ $BK N 70^\circ 23' 28.969'' E$ $AH N 72^\circ 32' 40.739'' E$ $PC 874+92.320$ $PT 879+84.639$

PHASE III	
Earthwork Total This Sheet	Cut 2680
	Fill 0
	Excess 0
	Surplus 0
	Borrow 1

PHASE II	
Earthwork Total This Sheet	Cut 40329
	Fill 21047
	Excess 0
	Surplus 0
	Borrow 1

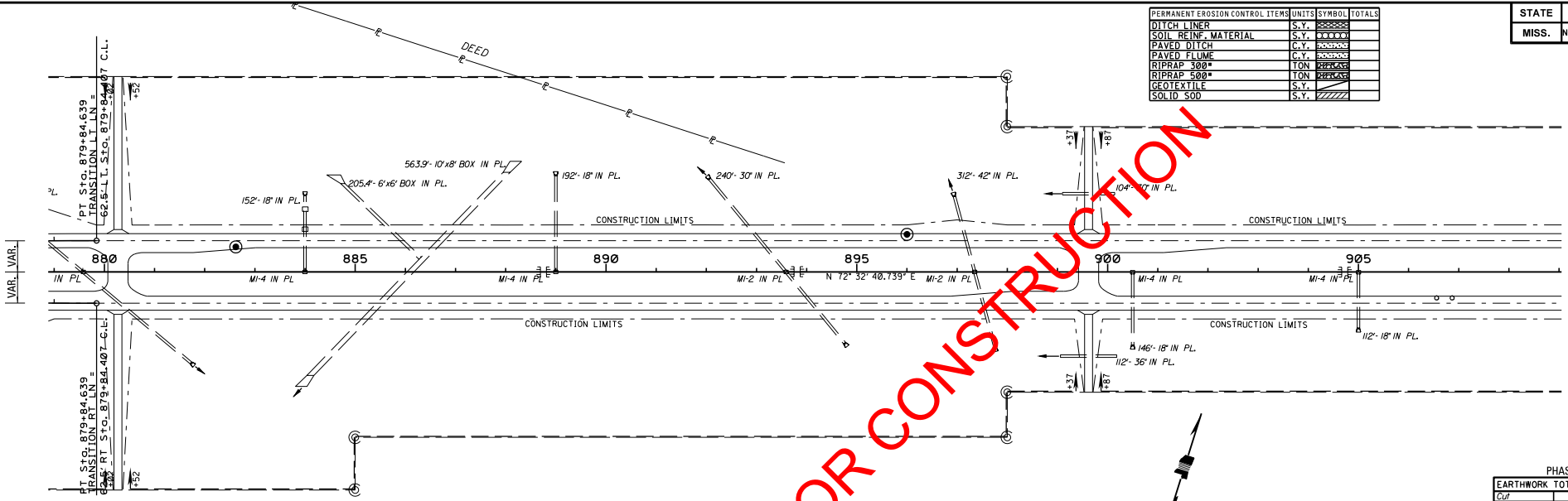
PHASE I	
Earthwork Total This Sheet	Cut 6666
	Fill 218252
	Excess 0
	Surplus 0
	Borrow 1



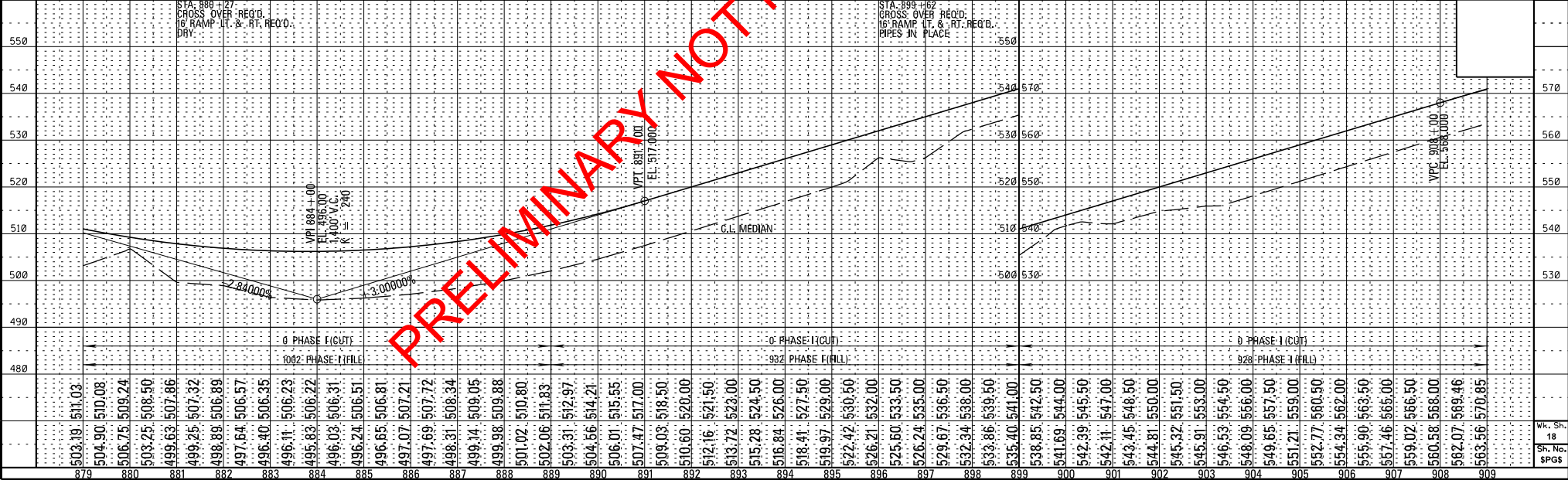
PRELIMINARY NOT FOR CONSTRUCTION



PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.	[Symbol]	
SOIL REINF. MATERIAL	S.Y.	[Symbol]	
PAVED DITCH	C.Y.	[Symbol]	
PAVED FILL	C.Y.	[Symbol]	
RIPRAP 300"	TON	[Symbol]	
RIPRAP 500"	TON	[Symbol]	
GEOTEXTILE	S.Y.	[Symbol]	
SOLID 500	S.Y.	[Symbol]	



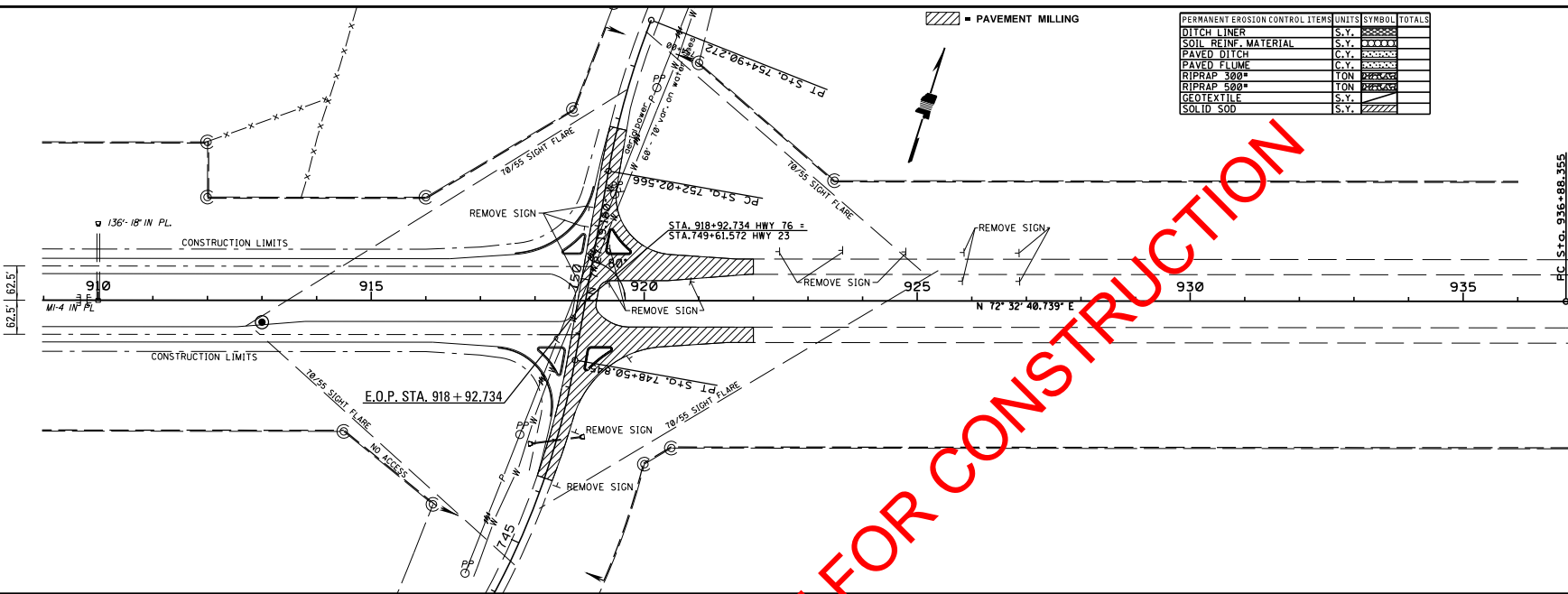
MISSISSIPPI DEPARTMENT OF TRANSPORTATION



PHASE I

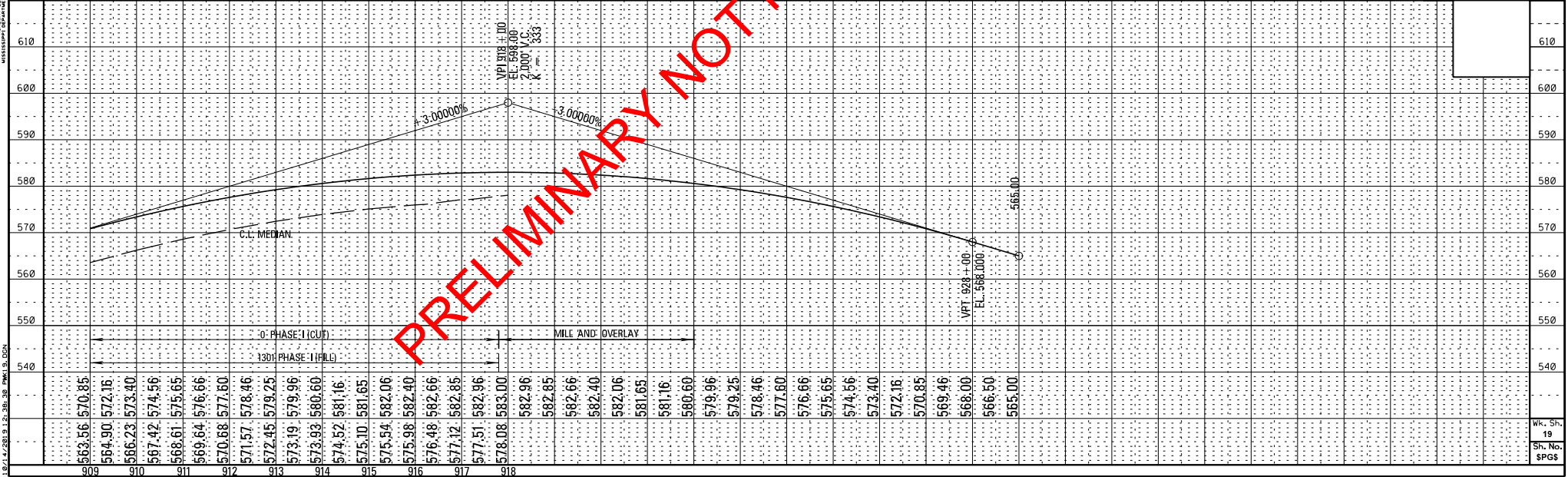
EARTHWORK	TOTAL THIS SHEET
CUT	0
FILL	2862
Excess	0
Surplus	0
Borrow	1

PERMANENT EROSION CONTROL ITEMS	UNITS	SYMBOL	TOTALS
DITCH LINER	S.Y.		
SOIL REINF. MATERIAL	S.Y.		
PAVED DITCH	C.Y.		
PAVED FLUME	C.Y.		
RIPRAP 300*	TON		
RIPRAP 500*	TON		
GEOTEXTILE	S.Y.		
SOLID SOD	S.Y.		

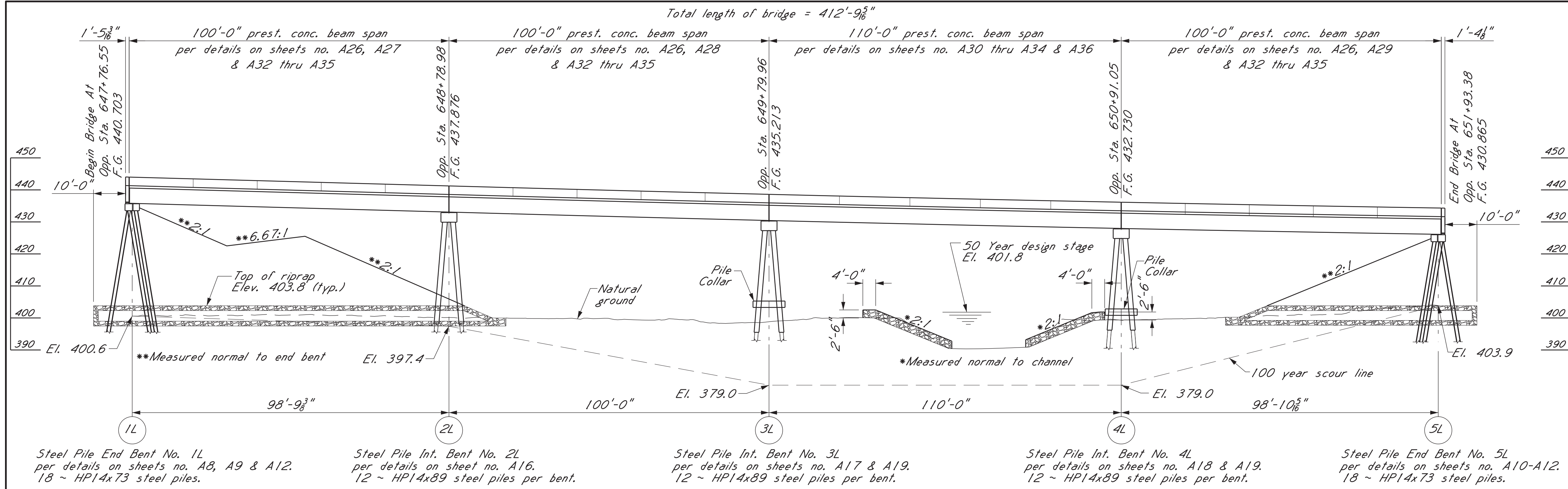


PHASE I	
EARTHWORK	TOTAL THIS SHEET
Cut	0
Fill	120
Excess	
Surplus	
Borrow	7

PRELIMINARY NOT FOR CONSTRUCTION



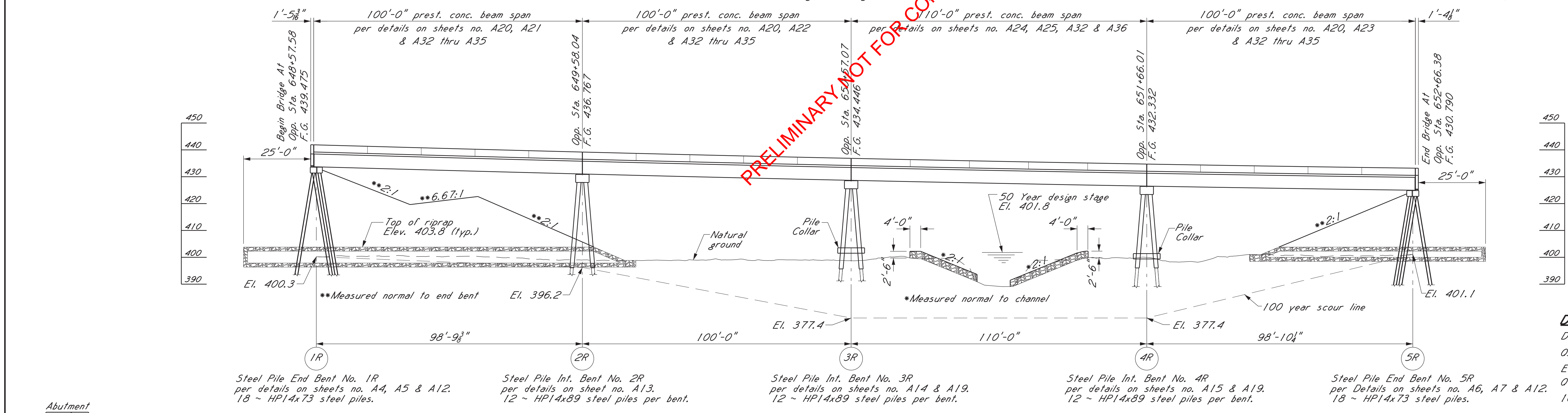
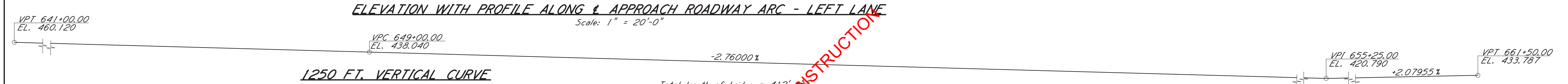




**NOTES:**  
 All horizontal dimensions are measured along the Approach Roadway Arc.  
 Reshape channel banks on a 2:1 side slope and cover with geotextile fabric and 30" riprap layer thickness.  
 Riprap channel bank 120 feet upstream and 130 feet downstream.  
 Geotextile Fabric is required under all riprap.  
 Guide Banks not required.

**500 Year Scour Left Lane**

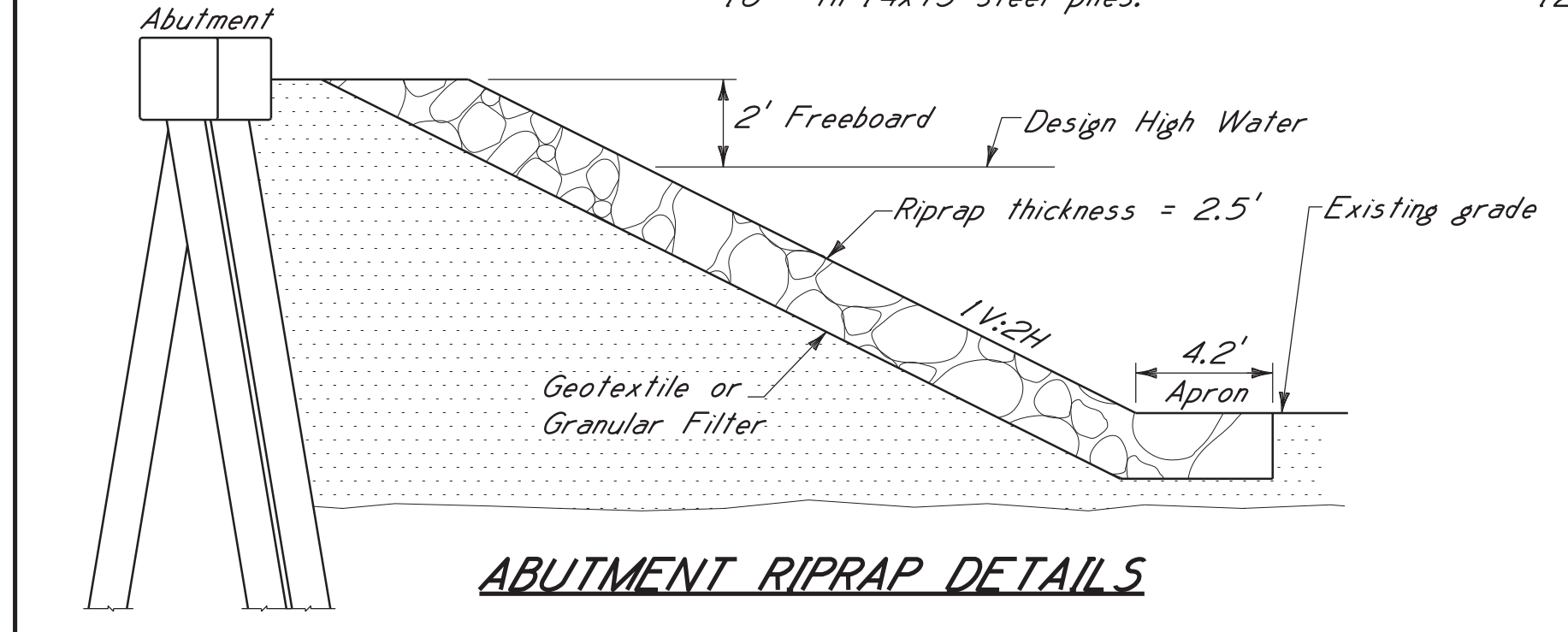
Bent No.	Elevation
1L	400.6
2L	397.0
3L	377.7
4L	377.7
5L	403.9



**500 Year Scour Right Lane**

Bent No.	Elevation
1R	400.3
2R	395.8
3R	375.0
4R	375.0
5R	401.1

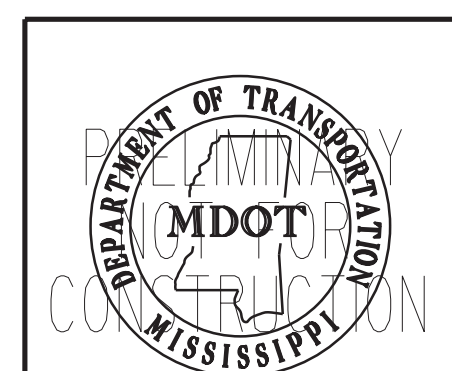
**DRAINAGE DATA:**  
 Drainage Area.....4.29 Sq. Mi.  
 Q50.....2,110 c.f.s.  
 Effective Area.....612 Sq. Ft.  
 Q100.....2,360 c.f.s.  
 100 year base flood elevation.....402.2 Ft.



**ELEVATION WITH PROFILE ALONG & APPROACH ROADWAY ARC - RIGHT LANE**  
 Scale: 1" = 20'-0"

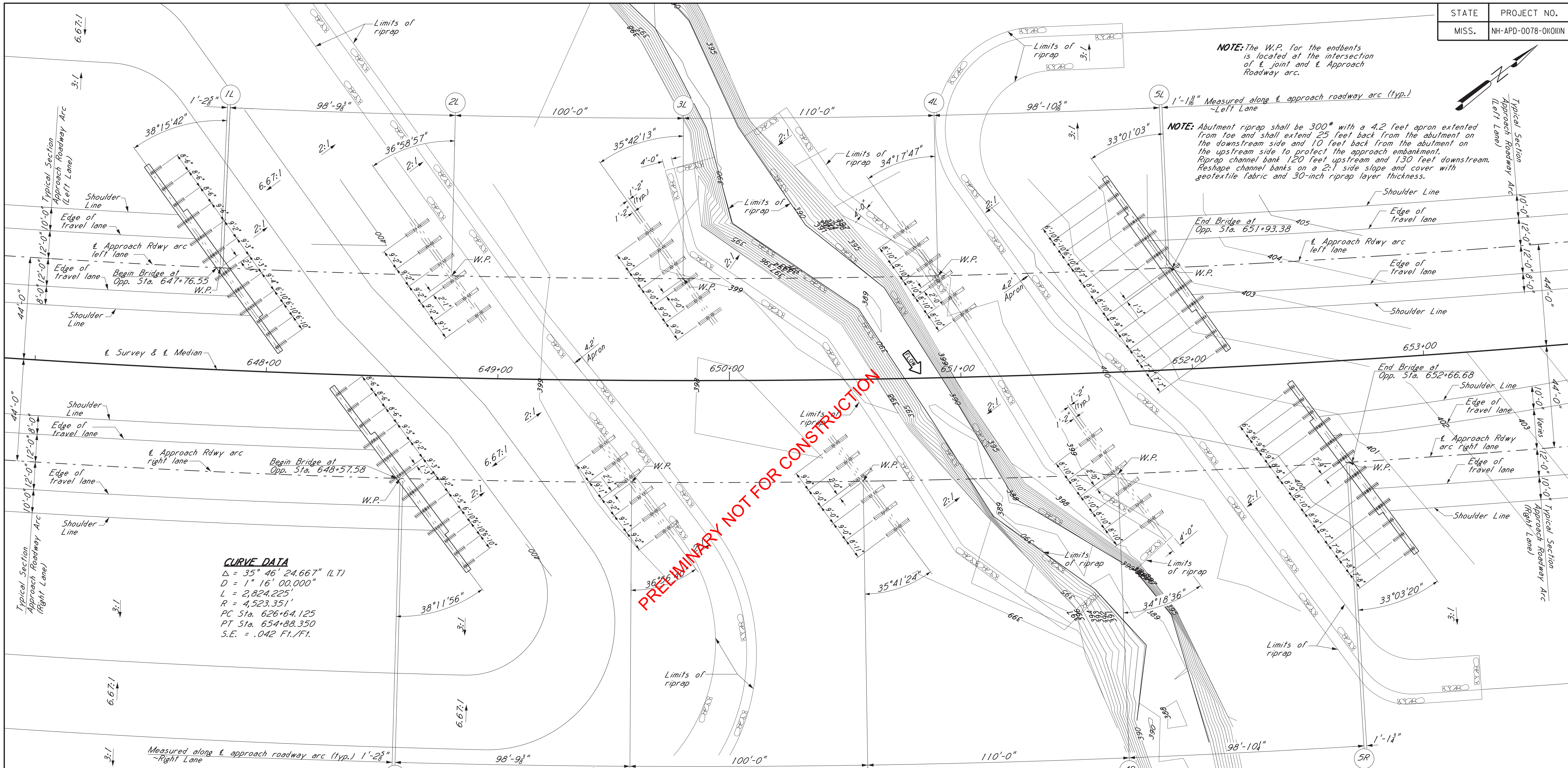
**SEISMIC DESIGN DATA:**  
 Seismic Performance Zone.....Zone 2  
 Site Class Definition.....Site Class D  
 Importance Category.....Essential

**DESIGN DATA:**  
 Specifications.....A.A.S.H.T.O., LFRD 2016  
 Loading.....HL-93  
 Roadway Width.....40'-0" Gutter To Gutter  
 Concrete.....Class "AA" (4,000 p.s.i.)



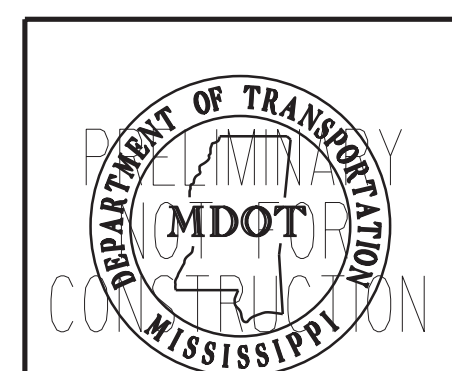
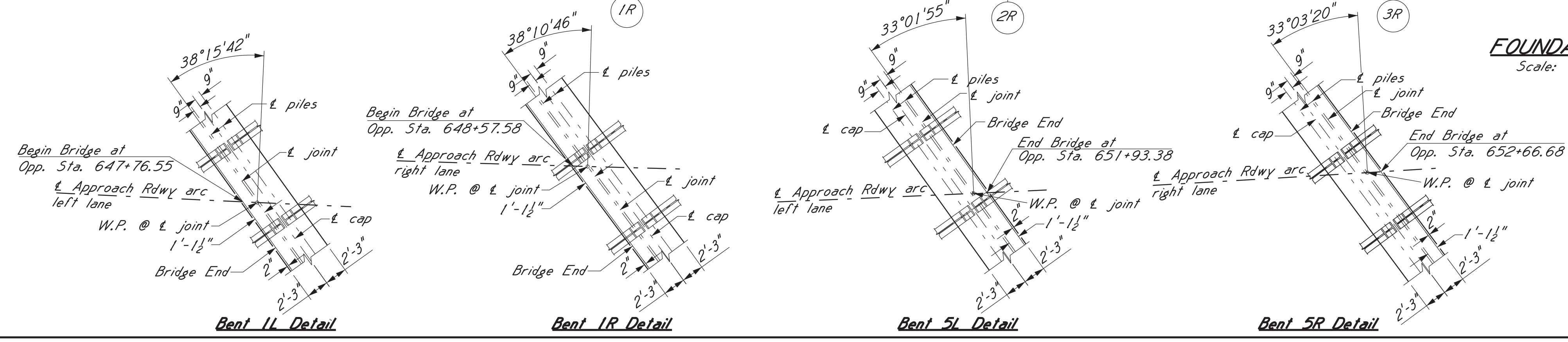
MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT OPP. STA. 647+76.55 LT. LN. OPP. STA. 648+57.58 RT. LN. APV CORR. V ACROSS GUM CREEK TRIBUTARY	
PROJECT NO. 102076/301000 NH-APD-0078-01(011)N ITAWAMBA COUNTY	
MICHAEL BAKER INTL. - CONSULTING ENGINEERS Jackson, Mississippi	WORKING NUMBER <b>A2 OF 38</b>
DESIGNED JDM CHECKED MKC	DATE 2019





PRELIMINARY NOT FOR CONSTRUCTION

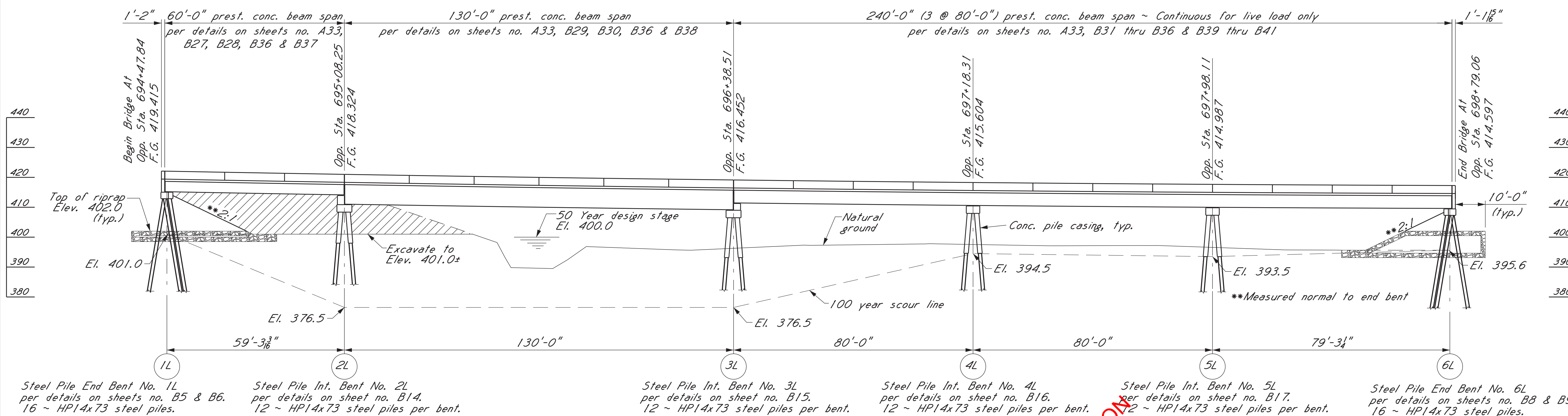
**FOUNDATION PLAN**  
Scale: 1" = 20'-0"



BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISIONS		BRIDGE AT OPP. STA. 647+76.55 LT. LN. OPP. STA. 648+57.58 RT. LN.	
		APV CORR. V ACROSS GUM CREEK TRIBUTARY	
		102076/301000	
		PROJECT NO. NH-APD-0078-01(011)N	
		ITAWAMBA COUNTY	
		MICHAEL BAKER INTL. - CONSULTING ENGINEERS Jackson, Mississippi	
		WORKING NUMBER A3 OF 38	
DATE		DESIGNED JDM CHECKED MKC	
		DETAILED ROH ISSUED _____	
		TRACED CADD DATE 2019	
		SHEET NUMBER	



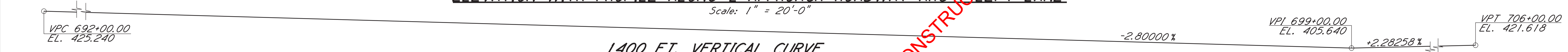
Total length of bridge = 432'-3 1/8"



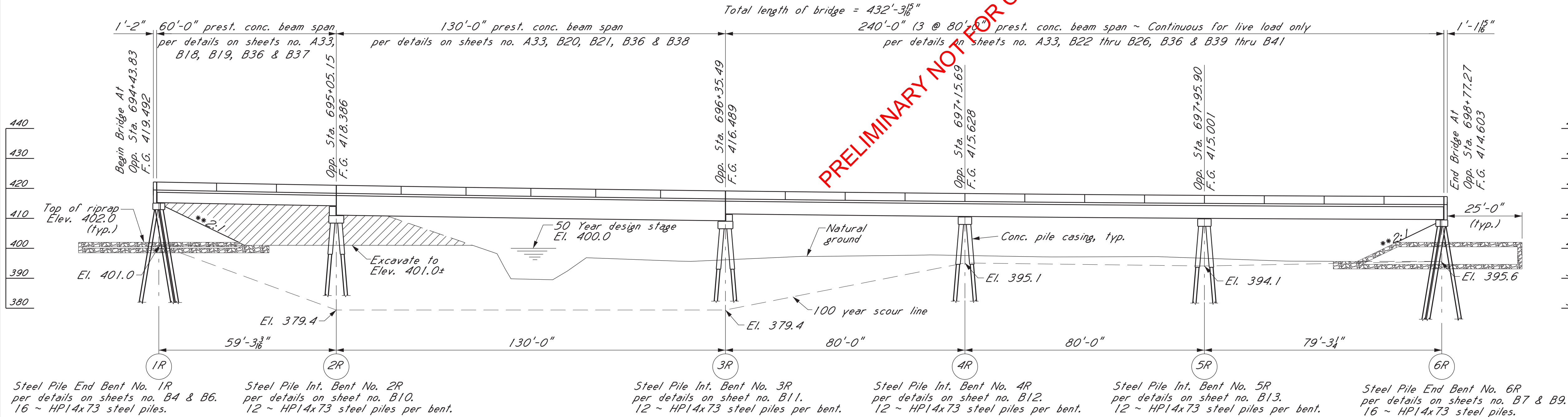
ELEVATION WITH PROFILE ALONG APPROACH ROADWAY ARC LEFT LANE

Scale: 1" = 20'-0"

PRELIMINARY NOT FOR CONSTRUCTION



1400 FT. VERTICAL CURVE



ELEVATION WITH PROFILE ALONG APPROACH ROADWAY ARC - RIGHT LANE

Scale: 1" = 20'-0"

**NOTES:**

- All horizontal dimensions are measured along the Approach Roadway Arc.
- Excavate existing high ground to elevation 401.0 between Sta. 694+34 and 695+50.
- Geotextile Fabric is required under all riprap.
- Guide Banks not required.

Bent No.	Elevation
1L	401.0
2L	374.7
3L	374.7
4L	394.3
5L	393.3
6L	395.6

Bent No.	Elevation
1R	401.0
2R	377.3
3R	377.3
4R	394.8
5R	393.8
6R	395.6

**SEISMIC DESIGN DATA:**

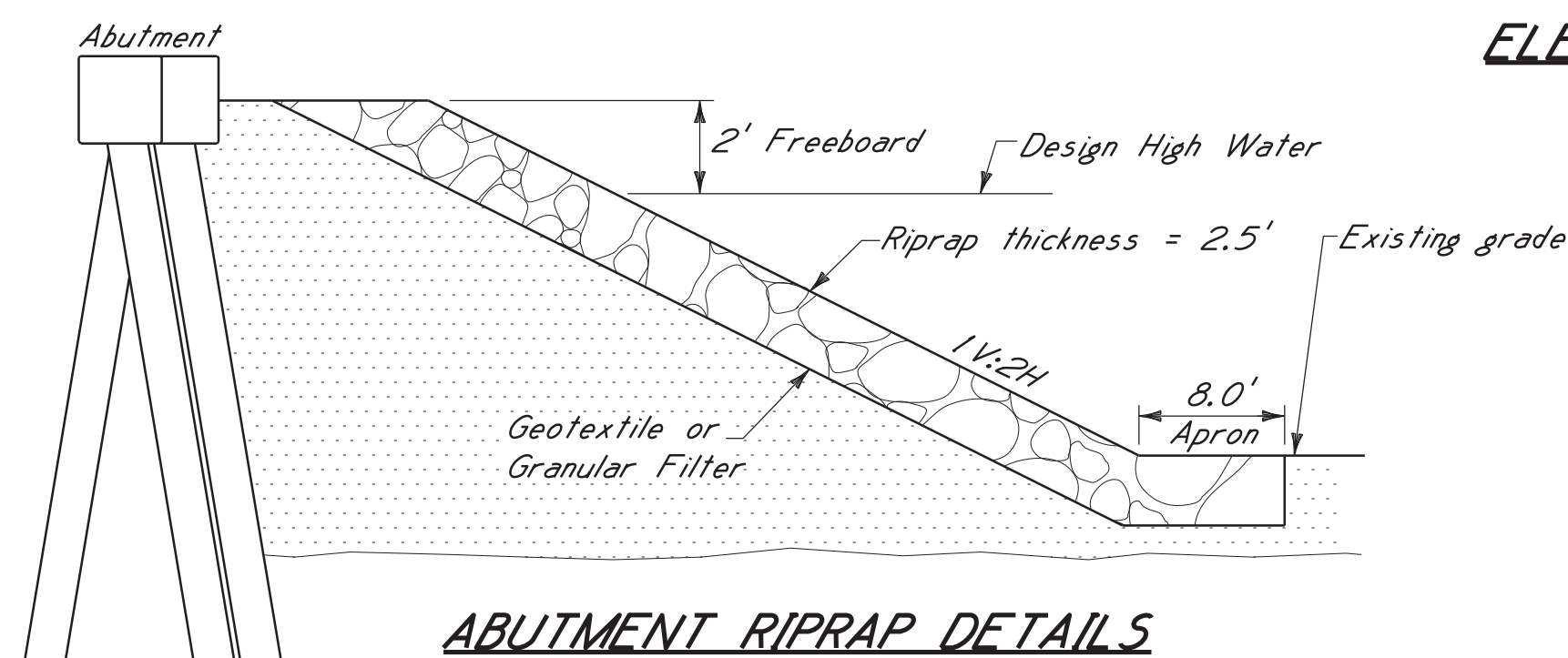
Seismic Performance Zone.....Zone 1  
 Site Class Definition.....Site Class C  
 Importance Category.....Essential

**DRAINAGE DATA:**

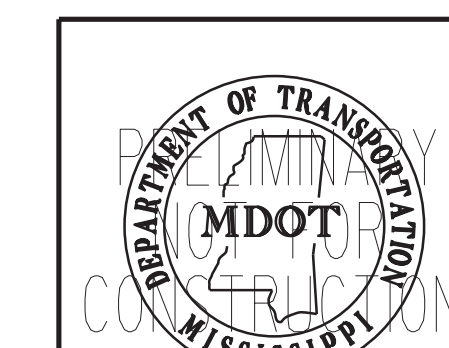
Drainage Area.....6.35 Sq. Mi.  
 OSO.....2,830 c.f.s.  
 Effective Area.....1,179 Sq. Ft.  
 O100.....3,170 c.f.s.  
 100 year base flood elevation.....400.4 Ft.

**DESIGN DATA:**

Specifications.....A.A.S.H.T.O., LFRD 2016  
 Loading.....HL-93  
 Roadway Width.....40'-0" Gutter To Gutter  
 Concrete.....Class "AA" (4,000 p.s.i.)

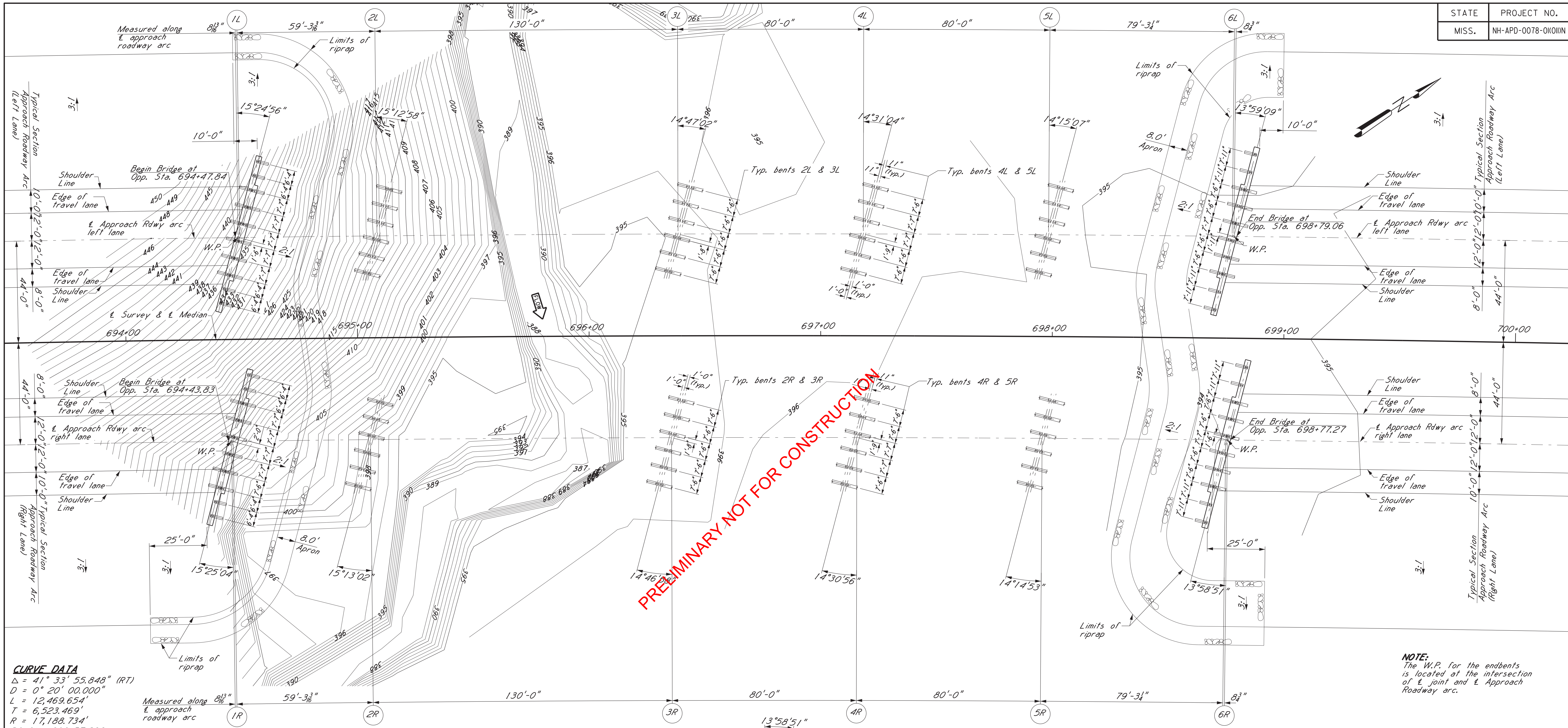


ABUTMENT RIPRAP DETAILS

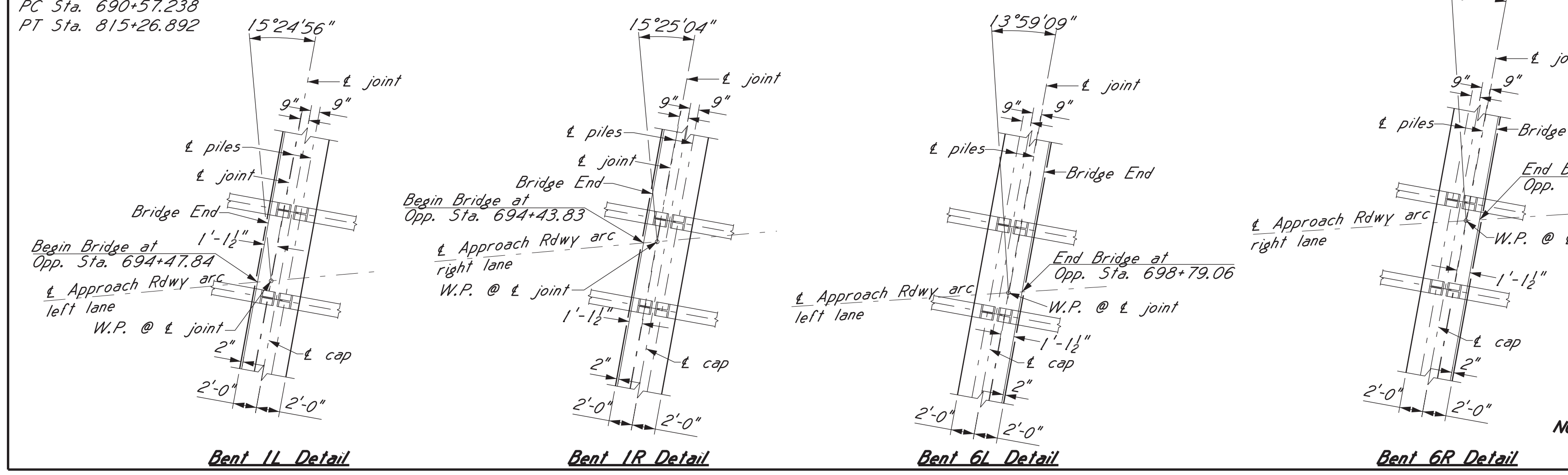


MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT OPP. STA. 694+47.84 LT. LN. OPP. STA. 694+43.83 RT. LN. APV CORR. V ACROSS PANTHER CREEK 102076/301000 PROJECT NO. NH-APD-0078-01(01)1N ITAWAMBA COUNTY		WORKING NUMBER <b>B2 OF 42</b>
MICHAEL BAKER INTL. - CONSULTING ENGINEERS Jackson, Mississippi		SHEET NUMBER
DESIGNED: JDM CHECKED: MKC	DETAILED: ROH ISSUED: _____	TRACED: CADD DATE: 2019



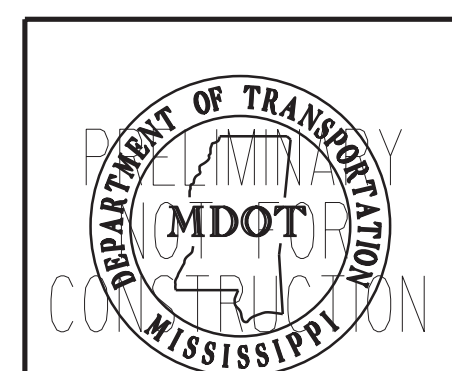


**CURVE DATA**  
 $\Delta = 41^\circ 33' 55.848''$  (RT)  
 $D = 0^\circ 20' 00.000''$   
 $L = 12,469.654'$   
 $T = 6,523.469'$   
 $R = 17,188.734'$   
PC Sta. 690+57.238  
PT Sta. 815+26.892



**FOUNDATION PLAN**  
Scale: 1" = 20'-0"

NOTE: Angles shown are measured from the approach roadway chord to radial lines at the joint.



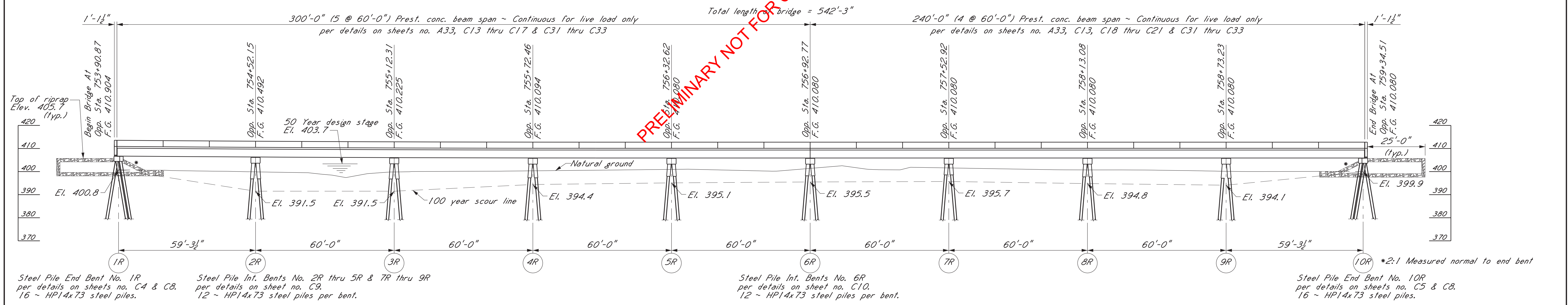
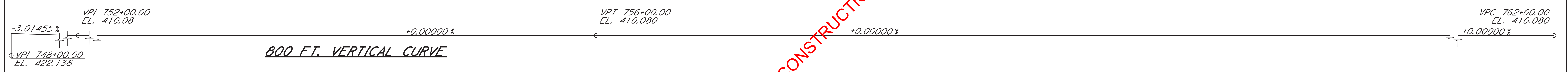
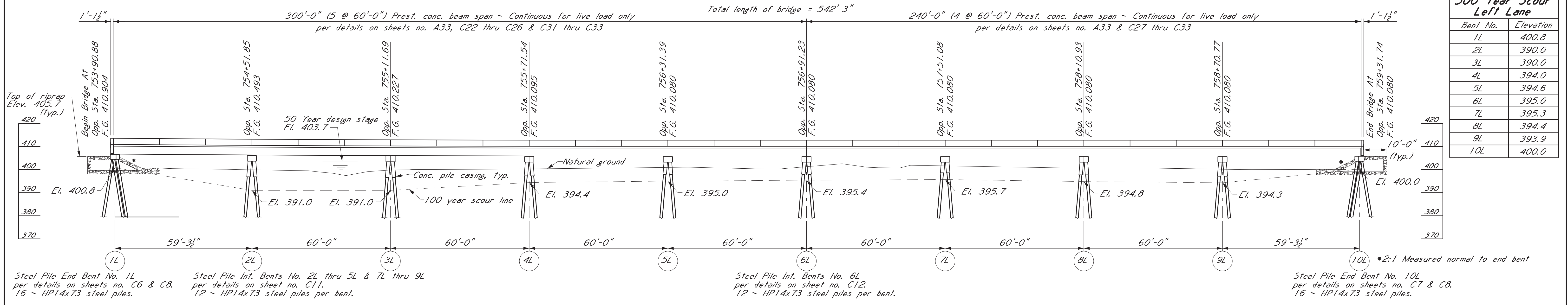
BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISIONS		BRIDGE AT OPP. STA. 694+47.84 LT. LN. OPP. STA. 694+43.83 RT. LN. APV CORR. V ACROSS PANTHER CREEK	
		102076/301000 PROJECT NO. NH-APD-0078-01011N ITAWAMBA COUNTY	
		MICHAEL BAKER INTL. - CONSULTING ENGINEERS Jackson, Mississippi	
		WORKING NUMBER B3 OF 42	
DATE		SHEET NUMBER	
DESIGNED	JDM	DETAILED	ROH
CHECKED	MKC	ISSUED	DATE 2019

NOTE:  
The W.P. for the endbents is located at the intersection of the joint and the Approach Roadway Arc.

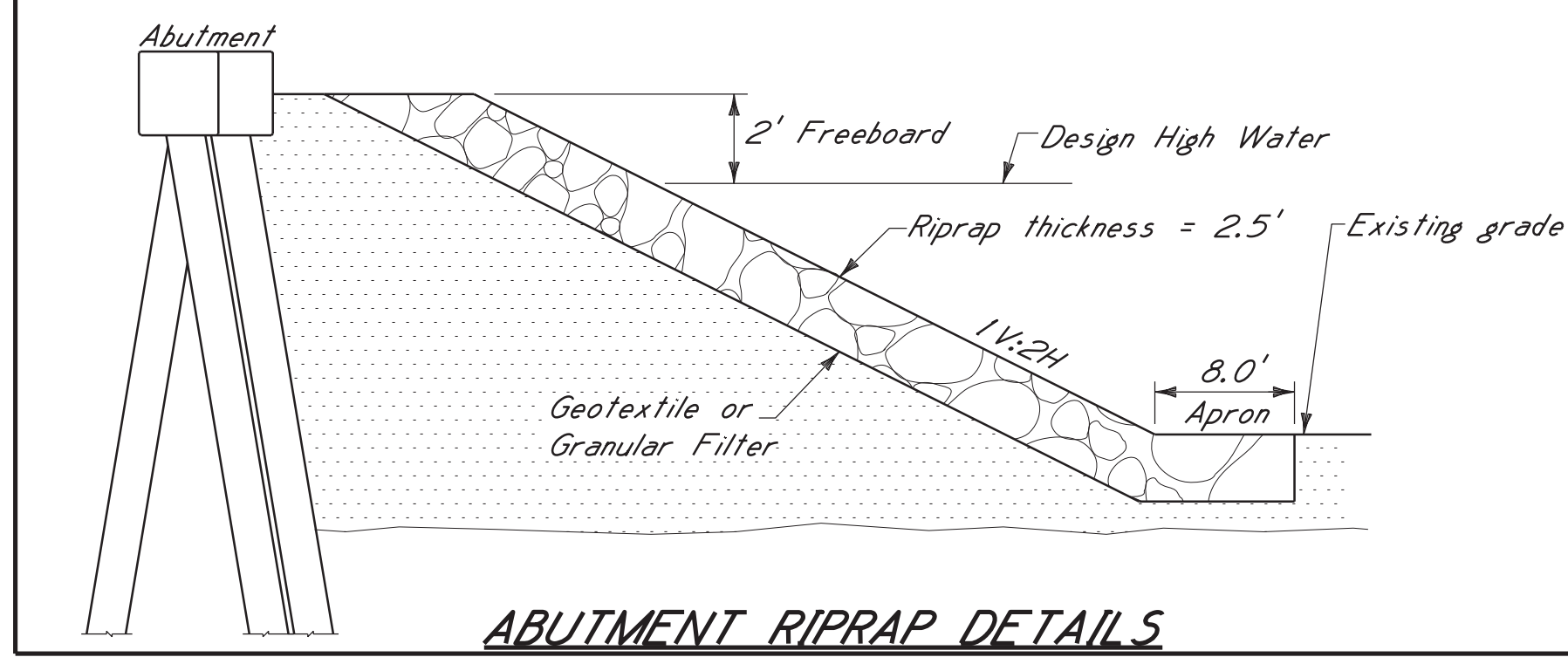


**500 Year Scour Left Lane**

Bent No.	Elevation
1L	400.8
2L	390.0
3L	390.0
4L	394.0
5L	394.6
6L	395.0
7L	395.3
8L	394.4
9L	393.9
10L	400.0



PRELIMINARY NOT FOR CONSTRUCTION



**500 Year Scour Right Lane**

Bent No.	Elevation
1R	400.8
2R	390.4
3R	390.4
4R	394.0
5R	394.6
6R	395.1
7R	395.3
8R	394.4
9R	393.7
10R	399.9

**NOTES:**

All horizontal dimensions are measured along & Approach Roadway Arc.  
Geotextile Fabric is required under all riprap.  
Guide Banks not required.

**DRAINAGE DATA:**

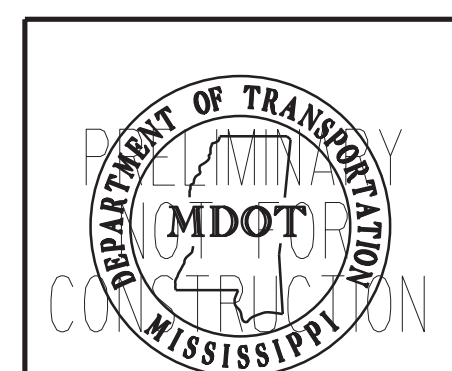
Drainage Area..... 19.4 Sq. Mi.  
050..... Shared Relief  
Effective Area..... 1,833 Sq. Ft.  
0100..... Shared Relief  
100 year base flood elevation..... 404.0 Ft.

**SEISMIC DESIGN DATA:**

Seismic Performance Zone..... Zone 1  
Site Class Definition..... Site Class C  
Importance Category..... Essential

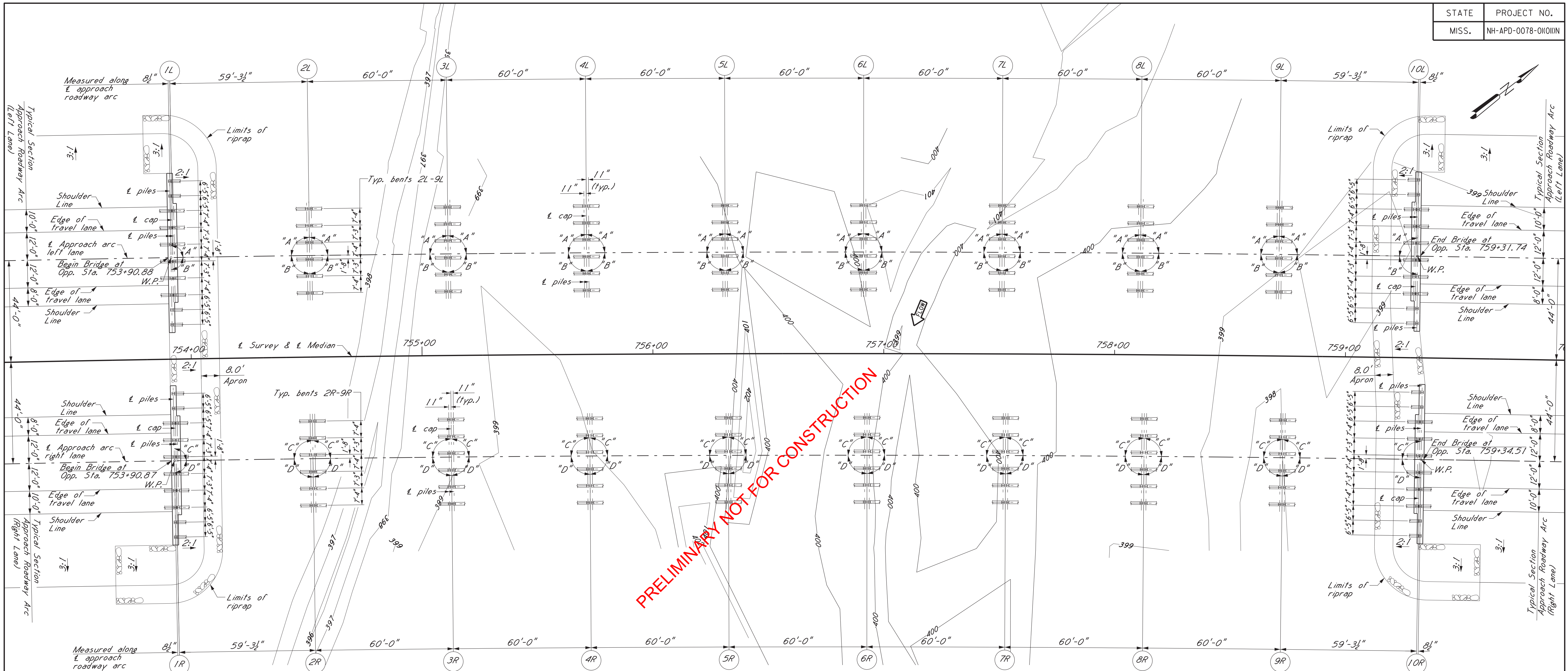
**DESIGN DATA:**

Specifications..... A.A.S.H.T.O., LFRD 2016  
Loading..... HL-93  
Roadway Width..... 40'-0" Gutter To Gutter  
Concrete..... Class "AA" (4,000 p.s.i.)



MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT OPP. STA. 753+90.88 LT. LN. OPP. STA. 753+90.87 RT. LN. APV CORR. V ACROSS CHUBBY CREEK RELIEF	
102076/301000 PROJECT NO. NH-APD-0078-01(01)11N ITAWAMBA COUNTY	
MICHAEL BAKER INTL. - CONSULTING ENGINEERS Jackson, Mississippi	WORKING NUMBER <b>C2 OF 34</b>
DESIGNED: JDM CHECKED: MKC	DATE: 2019
REVISIONS	SHEET NUMBER





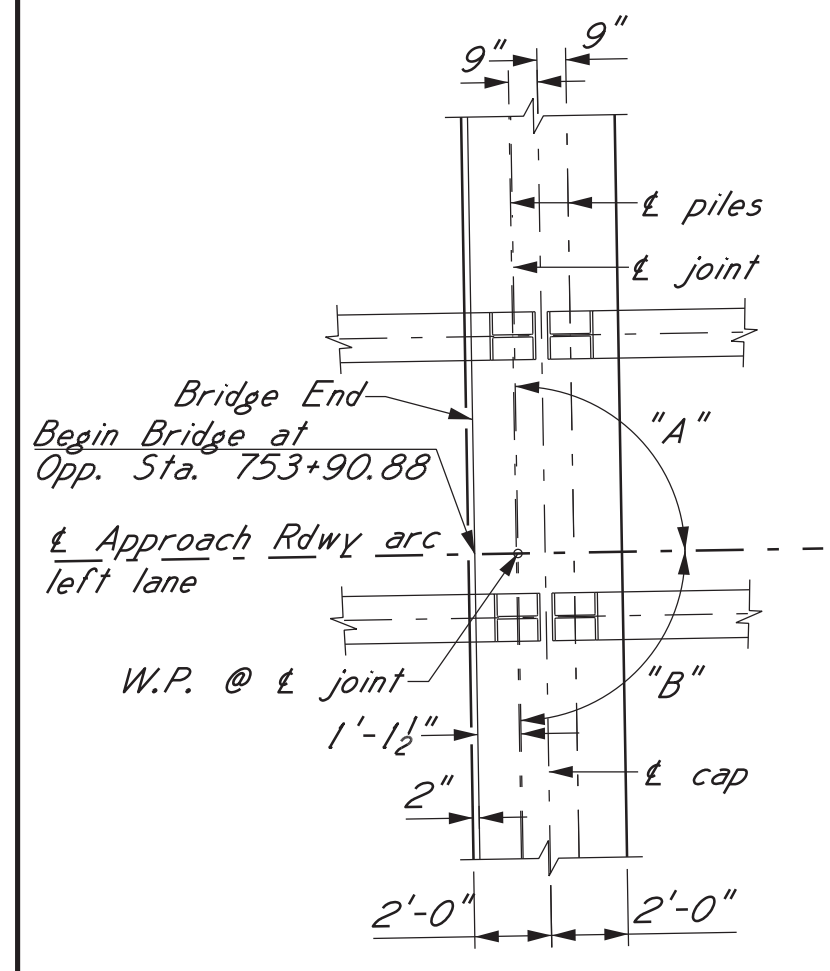
PRELIMINARY NOT FOR CONSTRUCTION

**FOUNDATION PLAN**  
Scale: 1" = 20'-0"

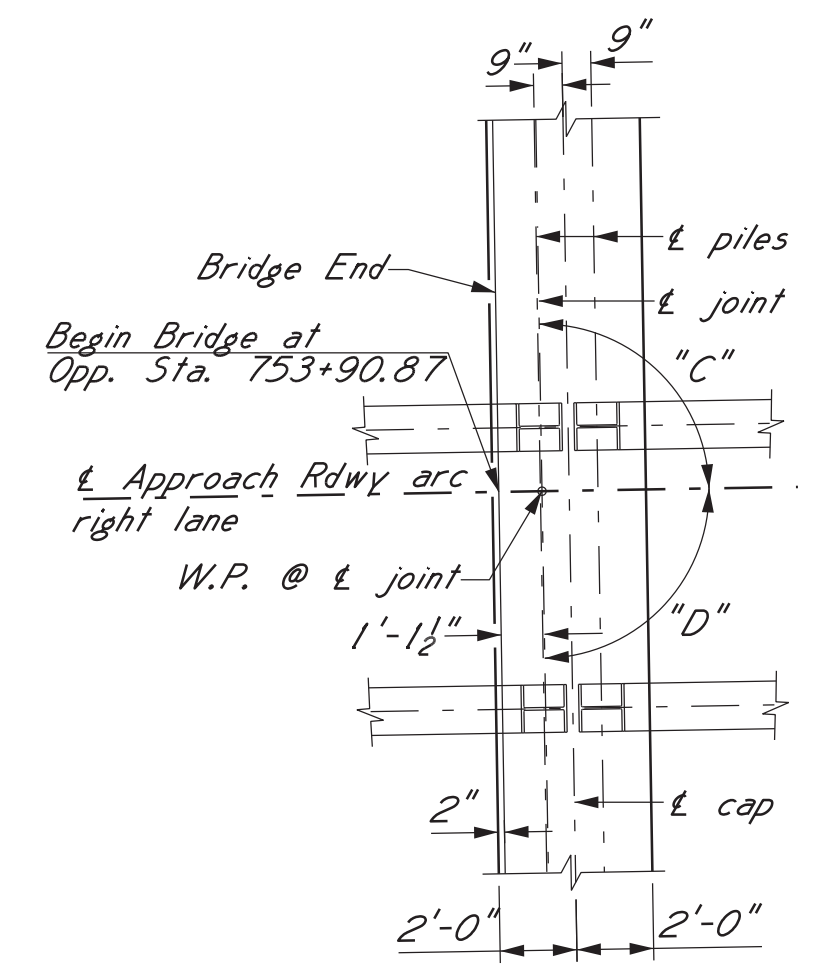
**CURVE DATA**  
 $\Delta = 41^\circ 33' 55.848''$  (RT)  
 $D = 0^\circ 20' 00.000''$   
 $L = 12,469.654'$   
 $T = 6,523.469'$   
 $R = 17,188.734'$   
 $PC$  Sta. 690+57.238  
 $PT$  Sta. 815+26.892

**ANGLE DATA**  
 $"A" = 90^\circ 05' 59''$   
 $"B" = 89^\circ 54' 01''$   
 $"C" = 90^\circ 06' 01''$   
 $"D" = 89^\circ 53' 59''$

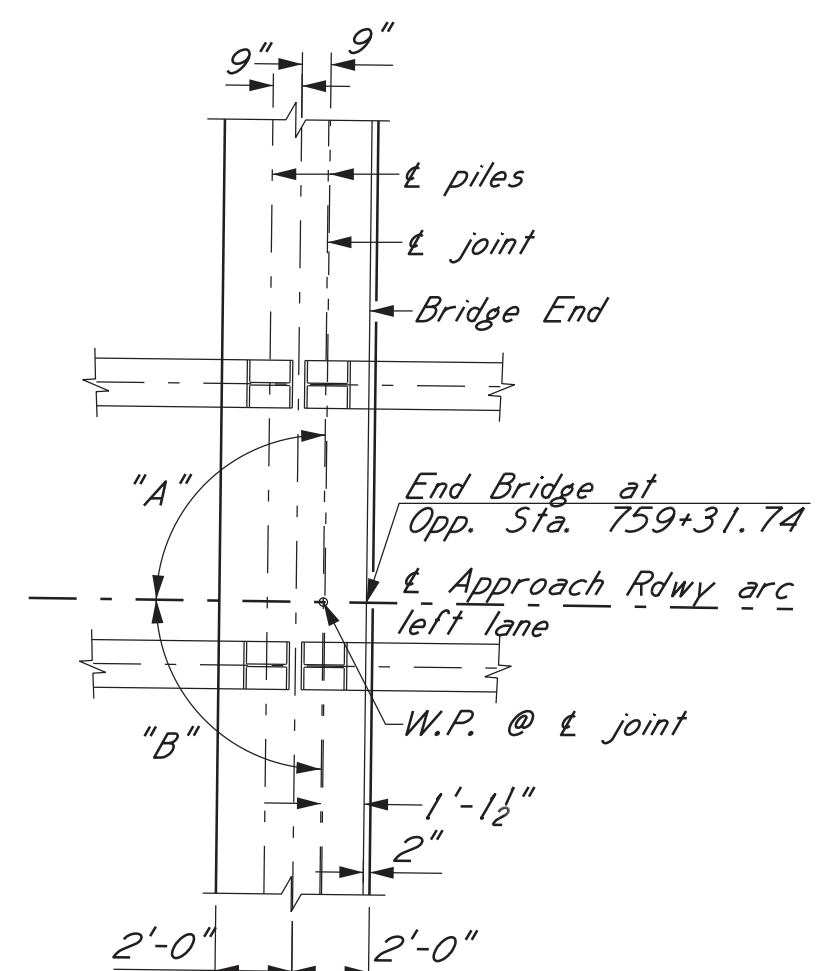
**NOTE:**  
The W.P. for the endbents is located at the intersection of  $\perp$  joint and  $\perp$  Approach Roadway arc.



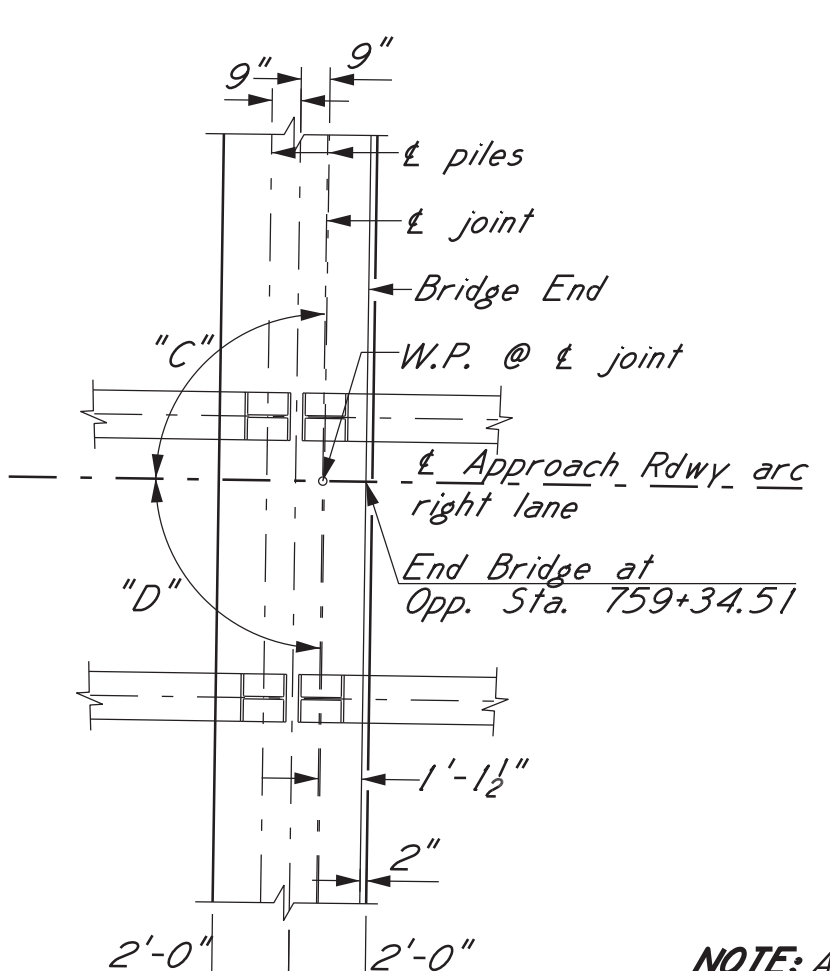
**Bent 1L Detail**



**Bent 1R Detail**

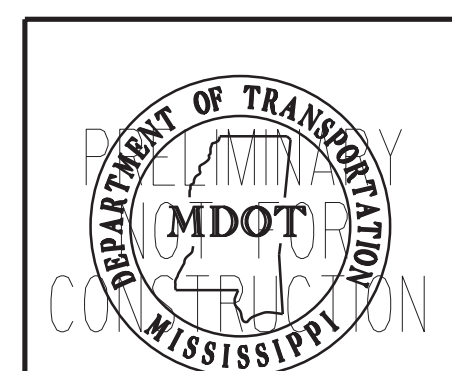


**Bent 10L Detail**



**Bent 10R Detail**

**NOTE:** Angles shown are measured from  $\perp$  approach roadway chord to radial lines at  $\perp$  joint.



BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISIONS		BRIDGE AT OPP. STA. 753+90.88 LT. LN. OPP. STA. 753+90.87 RT. LN. APV CORR. V ACROSS CHUBBY CREEK RELIEF	
		102076/301000 PROJECT NO. NH-APD-0078-01(011)N ITAWAMBA COUNTY	
		MICHAEL BAKER INTL. - CONSULTING ENGINEERS Jackson, Mississippi	
		WORKING NUMBER <b>C3 OF 34</b>	
DATE		DESIGNED JDM CHECKED MKC	
		DETAILED ROH ISSUED	
		TRACED CADD DATE 2019	
		SHEET NUMBER	





**US Army Corps  
of Engineers.**

Vicksburg District  
4155 Clay Street  
Vicksburg, MS 39183-3435  
www.mvk.usace.army.mil

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# GENERAL PERMIT

FILE NO.: GENERAL PERMIT – 46  
DATE: October 2, 2019  
EXPIRES: October 2, 2024

**FOR: REGULATED ACTIVITIES ASSOCIATED WITH THE DISCHARGE OF DREDGED OR FILL MATERIAL IN WATERS OF THE UNITED STATES AND/OR STRUCTURES OR WORK AFFECTING NAVIGABLE WATERS OF THE UNITED STATES ASSOCIATED WITH THE CONSTRUCTION AND STABILIZATION OF ROADWAY EMBANKMENTS AND BRIDGE ABUTMENTS**

**WHERE: THE STATE OF MISSISSIPPI**

**BY WHOM: DISTRICT ENGINEER, VICKSBURG DISTRICT, ON BEHALF OF THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION (MDOT)**

The U.S. Army Corps of Engineers (USACE), Vicksburg District, is hereby reissuing a Department of the Army General Permit for the discharge of dredged or fill material in waters of the United States and/or structures or work affecting navigable waters of the United States associated with the construction and stabilization of roadway embankments and bridge abutments performed by or having oversight from MDOT within the State of Mississippi. This General Permit shall authorize activities such as the repair and stabilization of existing roadway embankments and bridge abutments; the installation of additional traffic lanes to existing roadways; the upgrading of bridges and other stream-crossing structures; and, construction along new alignments.

This action is being taken pursuant to Federal regulations printed in the Federal Register on November 13, 1986, concerning permits for activities in waters of the United States (U.S.). These regulations state the U.S. Army Corps of Engineers' responsibility for regulating structures or work in or affecting waters of the United States under Section 10 of the Rivers and Harbors Act of 1899 (30 Stat. 1151; 33 U.S.C. 403); and discharges of dredged and/or fill material into waters of the United States under Section 404 of the Clean Water Act (33 U.S.C. 1344).

An agreement was finalized between MDOT, the Federal Highway Administration



(FHWA), and the U.S. Army Corps of Engineers with concurrence from the appropriate Districts on December 12, 2008, which specifies that all MDOT projects within the State will be evaluated by the Vicksburg District. The address is USACE, Vicksburg District, ATTN: Regulatory Branch, 4155 Clay Street, Vicksburg, Mississippi 39183-3435.

Upon expiration of the agreement, since portions of the State are within jurisdictional boundaries of five United States Army Corps of Engineers Districts (enclosure 1), subsequent authorizations to proceed with work proposed under this General Permit will be granted by letter from the appropriate District within whose boundaries the work will be located. The MDOT will be notified of any changes to the agreement and furnished the mailing address of each district.

This General Permit contains certain limitations intended to protect the environment and natural and cultural resources. Conformance with conditions contained in the General Permit does not necessarily guarantee authorization under this General Permit. In cases where the District Engineer considers it necessary, an application will be required for an individual permit.

Regulated construction, dredging, or fill operations not specifically covered by this General Permit are prohibited unless authorized by a separate permit.

General Permits may be issued for a category or categories of activities when: (1) those activities are substantially similar in nature and cause only minimal individual and cumulative environmental impacts; or (2) the General Permit would result in avoiding unnecessary duplication of the regulatory control exercised by another Federal, State, or local agency, provided it has been determined that the environmental consequences of the actions are individually and cumulatively minimal. The determination that the proposed activities comply with the requirements for the issuance of General Permits was made using information which is available for inspection at the office of the Vicksburg District's Regulatory Branch at 4155 Clay Street, Vicksburg, Mississippi.

In compliance with requirements of Section 401 of the Clean Water Act, the Vicksburg District has obtained water quality certification from the Mississippi Department of Environmental Quality (enclosure 2).

The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the U.S. to the maximum extent practicable at the project site (i.e., on site). Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

In order to compensate for any unavoidable losses of functions of jurisdictional waters of the United States associated with the work authorized by this General Permit; the Mississippi Department of Transportation shall develop a compensatory mitigation plan. The compensatory mitigation plan will be fully described in accordance with 33 CFR



Parts 325 and 332, Compensatory Mitigation for Losses of Aquatic Resources; Final Rule, April 2008.

REQUEST FOR AUTHORIZATION UNDER THE GENERAL PERMIT: IN ORDER TO BE AUTHORIZED BY THIS GENERAL PERMIT, THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION ARE REQUIRED TO SUBMIT TO THE DISTRICT ENGINEER, IN WRITING, THE FOLLOWING INFORMATION A MINIMUM OF 60 DAYS PRIOR TO THE PROPOSED BID ADVERTISEMENT DATE:

a. Statement that the work will be conducted in compliance with the terms and conditions of General Permit 46, will not adversely impact adjoining properties, and will be mitigated for in accordance with the terms of this General Permit.

b. A location map showing the proposed worksite (including Section, Township, Range, and County).

c. A brief description of the proposed worksite in its present condition.

d. For the selected site, a full set of construction plans (including quantities and types of any fill and quantities of any excavation), maps, and engineering drawings for the proposed activity at that site. These shall include a map of sufficient scale that illustrates an "overlay" of the proposed construction/development activity (e.g. construction roads, ditches, parking areas, lay-down pads, temporary work areas, remaining natural areas, etc.) on jurisdictional waters of the U.S.

e. The estimated starting and completion dates of the proposed construction.

f. Name, mailing address, telephone number, and email address, of the person acting as the point of contact for the requested authorization.

g. If wetlands or other waters of the U.S. are to be impacted, the following information is required:

(1) A map delineating the wetlands and other waters of the U.S. and copies of the associated data form(s) for routine wetland determinations from the 1987 Corps of Engineers Wetland Delineation Manual and its subsequent Regional Supplement Manual(s) covering the proposed project area(s).

(2) The type and date of approval of the NEPA documentation by the FHWA and a copy of their findings as required by Executive Order 11990.

h. A discussion of how adverse impacts to waters of the U.S. from the proposed activity will be avoided and minimized to the maximum extent practicable at the construction site.



i. If the loss or conversion to waters of the United States at a single and complete project site exceeds 0.1 acre, the application shall include a compensatory mitigation plan based on an approved wetland functional assessment methodology. Such recommendations should include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).

j. If impacts to a natural waterway at a single and complete project site exceed 100 linear feet, MDOT shall include a compensatory mitigation plan based on an approved stream functional assessment methodology. Such recommendations shall include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).

k. Comments from the Mississippi Department of Wildlife, Fisheries and Parks, Mississippi Department of Archives and History (including the results of any National Historic Preservation Act, Section 106, consultation actions), United States Fish and Wildlife Service (including the results of any Endangered Species Act, Section 7, consultation actions), and the Mississippi Department of Environmental Quality on the project.

l. Concurrence in writing from the Mississippi Department of Marine Resources (related to the Coastal Zone Management Act) and the National Marine Fisheries Service (including the results of any Magnuson-Steven Fisheries Conservation and Management Act, essential fish habitat consultation actions), if the project is located in Hancock, Harrison, or Jackson County, Mississippi. (See Special Condition h. below).

Upon receipt of this information, the District Engineer will: advise MDOT, in writing, either that the work will be evaluated for authorization under the General Permit 46; will request additional information, if needed; or will advise MDOT that the proposed activity will be evaluated as an individual permit.

Special Conditions:

a. No more than 7 acres of wetlands and other waters shall be directly impacted by the placement of fill at each single and complete crossing of a water of the United States where the proposed work involves either upgrading an existing highway within an established corridor or where the work is to be constructed along a new alignment. Any wetlands cut off from their natural hydrologic regime as a result of project work would be considered as directly impacted.

b. For stream or river crossings, discharges of permanent fill material and temporary

fill material shall be the minimum necessary to complete the crossing. The term fill refers to earthen material, riprap, concrete, and any other materials associated with the work.

c. The stabilization or construction work shall not interfere with navigation (including recreational boating) or adversely impact the flow-carrying capacity of the affected waterbody.

d. Material to be used for fill must be nonpolluting and may be obtained either offsite or from site preparation. Offsite material shall not be obtained from wetlands outside the 7-acre limit or from other areas which may adversely affect adjacent wetlands. Any excess material shall be placed in an upland area and properly contained or stabilized to prevent entry into adjacent water-bodies or wetlands.

e. Disturbed areas on the site shall be stabilized to minimize erosion. Stabilization of erodible areas shall be accomplished by seeding or sodding as soon as practicable to restore vegetative cover. If initial re-vegetation is unsuccessful, the area shall be reseeded or re-sodded until re-vegetation is successful. In areas subject to currents, riprap may be required for slope protection.

f. No activity that has the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, or a site that has previously been unevaluated, shall be authorized by this General Permit until the requirements of Section 106 of the National Historic Preservation Act have been satisfied. Additional fill material should not be taken from a known historical or archaeological site within or outside of regulated areas. If the permittee, during prosecution of work authorized herein, inadvertently discovers or accidentally destroys a cultural resource such as a cemetery, shipwreck, mound, historic structure, or archaeological site, within the area subject to Department of the Army jurisdiction, they must cease work in the immediate area and notify the District Engineer within 24 hours. The District Engineer, in consultation with the appropriate State Historic Preservation Officer and the Federally recognized Tribe, shall comply with the procedures set forth in 33 CFR 325, Appendix C, paragraph 11 (Historic Properties Discovered During Construction).

g. The work shall not occur in a National Wildlife Refuge, State Game Management Area, or other such Federal or State lands, or lands leased to those entities without the appropriate Federal or State authorization in writing.

h. For work within the Mississippi Coastal Zone Management Area, including all areas below Interstate I-10, a set of complete plans shall be sent to the three agencies listed below for review and/or approval as appropriate. Comments and concurrence resulting from this coordination should be submitted with the request for authorization under this General Permit.



1. The Mississippi Department of Marine Resources  
1141 Bayview Avenue  
Suite 101  
Biloxi, Mississippi 39530

2. National Marine Fisheries Service  
Southeast Regional Office  
Protected Resources  
Attention: Ms. Karla Reece  
263 13<sup>th</sup> Ave. S.  
St. Petersburg, Florida 33701  
Email: Karla.reece@noaa.gov

3. National Marine Fisheries Service  
Room 266, Military Science Building  
Attention: Mr. Brandon Howard  
South Stadium Drive  
La. State University  
Baton Rouge, Louisiana 70803-7535

i. All temporary fills must consist of non-erodible material or be protected to prevent erosion.

j. Any materials used for temporary structures such as cofferdams, equipment pads, or temporary crossings, shall be removed as soon as practicable, and the waterway should be restored to preconstruction contours.

k. Disturbance to riparian vegetation shall be kept to a minimum during construction.

l. No activity shall be authorized under this General Permit which is likely to directly or indirectly jeopardize the continued existence of a Federally-listed threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will likely directly or indirectly destroy or adversely modify the critical habitat of such species. No activity shall be authorized under this General Permit which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed. No activity shall be authorized under this General Permit which "may affect" essential fish habitat as identified under Magnuson-Stevens Fishery Conservation and Management Act, unless essential fish habitat consultation addressing the effects of the proposed activity has been completed.

m. Discharges shall not restrict or impede the movement of aquatic species indigenous to the waters.

n. All work shall be performed in a manner that will minimize increased turbidity of the water in the project area and otherwise avoid adverse effects on water quality and aquatic life especially during fish spawning season. This may require avoiding construction activities during the peak spawning months of April, May, and June.

o. The discharge shall not adversely affect a public water supply intake or a National or State Fish Hatchery intake.

p. The discharge shall not contain unacceptable levels of pathogenic organisms (as prescribed in standards set by the Mississippi Department of Environmental Quality) in areas used for water-contact sports.

q. The construction activity shall not result in the permanent diversion or relocation of a stream or a river channel except where needed to align a waterway crossing to avoid potential damage to the roadway. In no case, should any realignment extend beyond 150 feet upstream and 150 feet downstream from the centerline of a crossing structure. The construction activity shall not result in stream flow impediment or drain adjacent wetlands.

r. Authorization under this General Permit is valid until the General Permit expires. Activities authorized under this General Permit which are under construction, or that are under contract to commence by the expiration of this General Permit, will remain authorized provided the activity is completed within 12 months of the date of expiration.

s. Current standards and practices shall be used to determine what type drainage structure is required at a particular stream crossing (box culvert, bridge, etc.).

t. To minimize potential adverse impacts to wetlands within the right-of-way or associated with the project, the Mississippi Department of Transportation shall incorporate into each project's design all practicable measures to:

- (1) Minimize impact on hydrology in wetland areas.
- (2) Minimize potential for toxic spills and leaching into wetland areas.
- (3) Minimize discharge of materials, such as silt, into wetlands.
- (4) Maintain adequate flow through wetlands by providing culverts, ditches, and other hydrologic structures.
- (5) Provide berms, traps, or ditches to direct potential toxic spills away from wetlands.
- (6) Provide for animal migration to and from wetland areas or habitat corridors.



(7) Provide erosion and sediment control features throughout the construction phase of a project which will minimize both short- and long-term impacts to water quality.

(8) Provide treatment facilities which may be required to treat highway runoff which would otherwise adversely affect wetlands.

(9) Provide contractual provisions for stopwork orders, project staging, and other specifications pertaining to minimizing impacts on wetlands and to onsite monitoring.

General Conditions:

a. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

b. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

c. This permit does not grant any property rights or exclusive privileges.

d. This permit does not authorize any injury to the property or rights of others.

e. This permit does not authorize interference with any existing or proposed Federal project.

f. In issuing this permit, the Federal Government does not assume any liability for the following:

(1) Damages to the permitted project, or uses thereof, as a result of other permitted or unpermitted activities or from natural causes.

(2) Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

(3) Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

(4) Design or construction deficiencies associated with the permitted work.

(5) Damage claims associated with any future modification, suspension, or revocation of this permit.

g. In issuing individual authorizations under this General Permit, the Government shall rely on the information and data which the permittee provides in connection with

the permit application. If, subsequent to the authorization, such information and data prove to be false, incomplete, or inaccurate, this authorization may be modified, suspended, or revoked, in whole or in part, and/or the Government may, in addition, institute appropriate legal proceedings.

h. This office may re-evaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

(1) Failure to comply with the terms and conditions of this permit.

(2) The information provided in support of a request for authorization proves to have been false, incomplete, or inaccurate (See g. above).

(3) Significant new information surfaces which was not considered in reaching the original public interest decision.

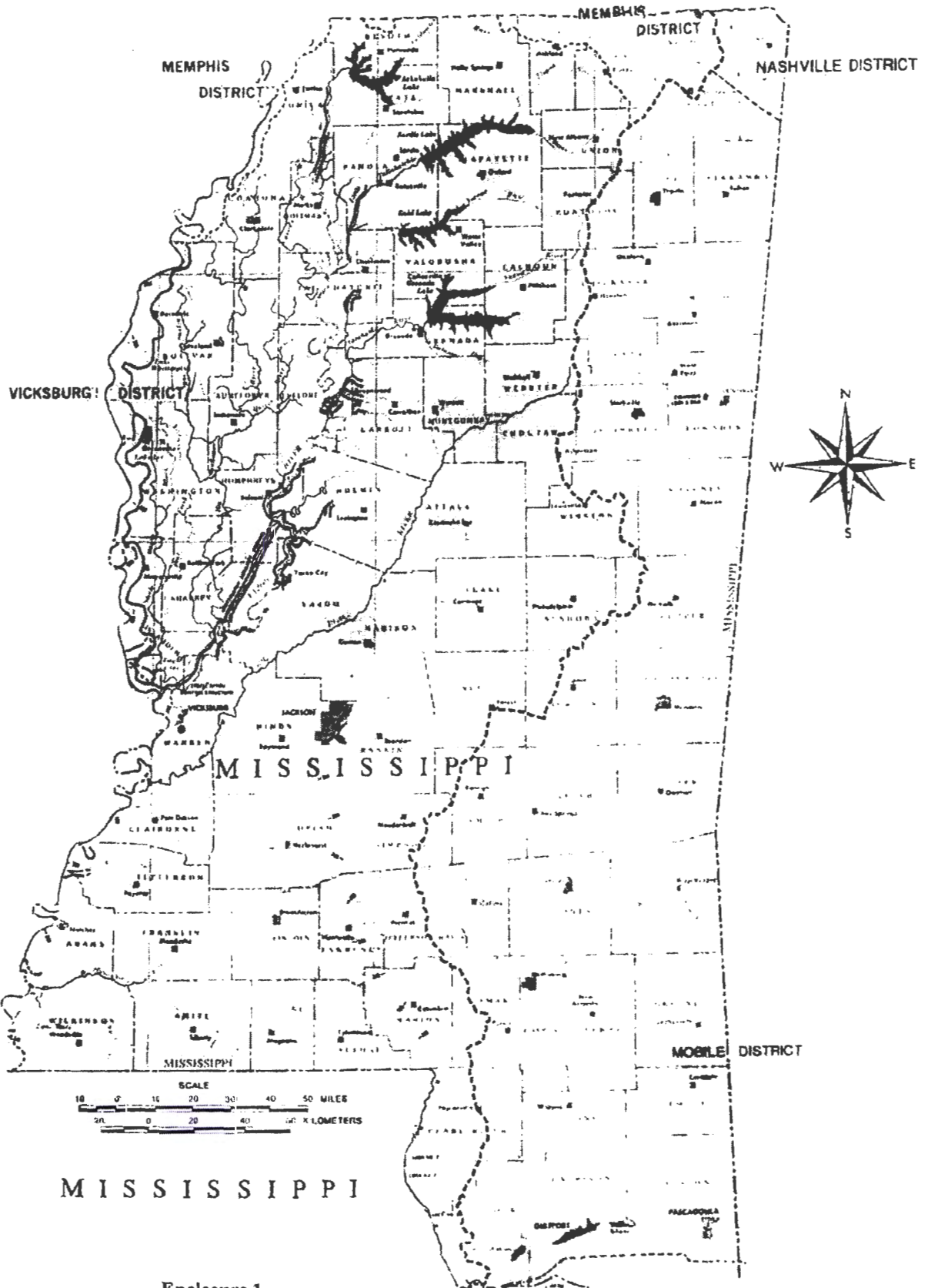
i. The General Permit is valid for 5 years from the date of the issuance. At the end of that time, the cumulative environmental effects of completed work will be reviewed and reissuance of the permit may be considered. However, if unforeseen adverse environmental effects result from the issuance of this General Permit, it may be modified or terminated at any time.

j. Authorization under this General Permit is valid until the General Permit expires. Activities authorized under this General Permit which are under construction, or that are under contract to commence by the expiration of this General Permit, will remain authorized provided the activity is completed within 12 months of the date of expiration.



Cori Carraway  
Acting Chief, Regulatory Branch





Enclosure 1

(ENC 1)



STATE OF MISSISSIPPI  
PHIL BRYANT  
GOVERNOR  
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
GARY C. RIKARD, EXECUTIVE DIRECTOR  
January 30, 2019

Certified Mail No. 7017 0530 0000 5971 7466

Ms. Jennifer Mallard  
U.S. Army Corps of Engineers  
Vicksburg District  
4155 Clay Street  
Vicksburg, Mississippi 39183-3435

Dear Ms. Mallard:

Re: U. S. Army Corps of Engineers  
Vicksburg District  
General Permit 46. MDOT  
Warren County  
COE No. MVK20180808  
WQC No. WQC2018047

Pursuant to Section 401 of the Federal Water Pollution Control Act (33 U. S. C. 1251, 1341), the Office of Pollution Control (OPC) issues this Certification, after public notice and opportunity for public hearing, to the U.S. Army Corps of Engineers, Vicksburg District, an applicant for a Federal License or permit to conduct the following activity:

U.S. Army Corps of Engineers, Vicksburg District, General Permit 46: Proposed reissuance of a statewide General Permit for the discharge of dredged or fill material in waters of the United States and/or structures or work affecting navigable waters of the United States associated with the construction and stabilization of roadway embankments and bridge abutments. This General Permit would authorize activities such as the repair and stabilization of existing roadway embankments and bridge abutments; the installation of additional traffic lanes to existing roadways; the upgrading of bridges and other stream-crossing structures; and construction along new alignments.

This proposed General Permit contains certain limitations intended to protect the environment and natural and cultural resources. Conformance with conditions contained in the General Permit does not necessarily guarantee authorization under this General Permit. In cases where the District Engineer considers it necessary, an application will be required for an individual permit. Regulated construction, dredging, or fill operations not specifically authorized by this General Permit would be prohibited unless authorized by a separate permit.

48690 WOC20180001

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RECEIVED FEB 04 2019

OFFICE OF POLLUTION CONTROL

AN EQUAL OPPORTUNITY EMPLOYER

(ENCL 2)



General Permits may be issued for a category or categories of activities when: (1) those activities are substantially similar in nature and cause only minimal individual and cumulative environmental impacts; or (2) the General Permit would result in avoiding unnecessary duplication of the regulatory control exercised by another Federal, State, or local agency, provided it has been determined that the environmental consequences of the actions are individually and cumulatively minimal.

In order to be authorized by this General Permit, the Mississippi Department of Transportation would be required to submit to the District Engineer in writing, the following information a minimum of 60 days prior to the proposed bid advertisement date:

- a. Statement that the work would be conducted in compliance with the terms and conditions of General Permit 46, would not adversely impact adjoining properties, and would be mitigated for in accordance with the terms of this General Permit.
- b. A location map showing the proposed worksite (including Section, Township, Range, and County).
- c. A brief description of the proposed worksite in its present condition.
- d. For the selected site, a full set of construction plans (including quantities and types of any fill and quantities of any excavation), maps, and engineering drawings for the proposed activity at that site. These shall include a map of sufficient scale that illustrates an "overlay" of the proposed construction/development activity (e.g. construction roads, ditches, parking areas, lay-down pads, temporary work areas, remaining natural areas, etc.) on jurisdictional waters of the U.S.
- e. The estimated starting and completion dates of the proposed construction.
- f. Name, mailing address, telephone number, and email address of the person acting as the point of contact for the requested authorization.
- g. If wetlands or other waters of the U.S. are to be impacted, the following information is required:
  - (1) A map delineating the wetlands and other waters of the U.S. and copies of the associated data form(s) for routine wetland determinations from the 1987 Corps of Engineers Wetland

Delineation Manual and its subsequent Regional Supplement Manual(s) covering the proposed project area(s).

- (2) The type and date of approval of the NEPA documentation by the FHWA and a copy of their findings as required by Executive Order 11990.
- h. A discussion of how adverse impacts to waters of the U.S. from the proposed activity will be avoided and minimized to the maximum extent practicable at the construction site.
- i. If the loss or conversion to waters of the United States at a single and complete project site exceeds 0.1 acre, the application shall include a compensatory mitigation plan based on an approved wetland functional assessment methodology. Such recommendations should include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation; however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).
- j. If impacts to a natural waterway at a single and complete project site exceed 100 linear feet, MDOT would include a compensatory mitigation plan based on an approved stream functional assessment methodology. Such recommendations would include copies of all factual information (e.g. worksheets) used in performing the calculations of the functional assessment. (Note: The District Engineer will consider this recommendation, however, the District Engineer retains discretionary authority in making the final decision on compensatory mitigation measures).
- k. Comments from the Mississippi Department of Wildlife, Fisheries and Parks, Mississippi Department of Archives and History (including the results of any National Historic Preservation Act, Section 106, consultation actions), United States Fish and Wildlife Service (including the results of any Endangered Species Act, Section 7, consultation actions), and the Mississippi Department of Environmental Quality on the project.
- l. Concurrence in writing from the Mississippi Department of Marine Resources (related to the Coastal Zone Management Act) and the National Marine Fisheries Service (including the results of any Magnuson-Steven Fisheries Conservation and Management Act, essential fish habitat consultation actions) if the project is located in



Hancock, Harrison, or Jackson County, Mississippi. (See Special Condition h. below).

Upon receipt of this information the District Engineer will: advise MDOT, in writing, either that the work will be evaluated for authorization under the General Permit 46; will request additional information, if needed; or will advise MDOT that the proposed activity will be evaluated as an individual permit.

Special Conditions of the General Permit:

- a. No more than 7 acres of wetlands and other waters would be directly impacted by the placement of fill at each single and complete crossing of a water of the United States where the proposed work involves either upgrading an existing highway within an established corridor or where the work is to be constructed along a new alignment. Any wetlands cut off from their natural hydrologic regime as a result of project work would be considered as directly impacted.
- b. For stream or river crossings, discharges of permanent fill material and temporary fill material would be the minimum necessary to complete the crossing. The term fill refers to earthen material, riprap, concrete, and any other materials associated with the work.
- c. The stabilization or construction work would not interfere with navigation (including recreational boating) or adversely impact the flow-carrying capacity of the affected waterbody.
- d. Material to be used for fill must be nonpolluting and may be obtained either offsite or from site preparation. Offsite material would not be obtained from wetlands outside the 7-acre limit or from other areas which may adversely affect adjacent wetlands. Any excess material would be placed in an upland area and properly contained or stabilized to prevent entry into adjacent waterbodies or wetlands.
- e. Disturbed areas on the site would be stabilized to minimize erosion. Stabilization of erodible areas would be accomplished by seeding or sodding as soon as practicable to restore vegetative cover. If initial re-vegetation is unsuccessful, the area would be reseeded or re-sodded until re-vegetation is successful. In areas subject to currents, riprap may be required for slope protection.
- f. No activity that may adversely affect a site listed in or eligible for listing in the National Register of Historic Places would be authorized by this General Permit until the requirements of Section 106 of the National Historic Preservation Act have been satisfied. Additional material would not be taken from a known historical or archaeological site. If you discover any previously

unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the District Engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The District Engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

- g. The work would not occur in a National Wildlife Refuge, State Game Management Area, or other such Federal or State lands, or lands leased to those entities without the appropriate Federal or State authorization in writing.
- h. For work within the Mississippi Coastal Zone Management Area, including all areas below Interstate I-10, a set of complete plans would be sent to the two agencies listed below for review and/or approval as appropriate. Comments and concurrence resulting from this coordination would be submitted with the request for authorization under this General Permit.
  - 1. Mississippi Department of Marine Resources  
1141 Bayview Avenue  
Suite 101  
Biloxi, Mississippi 39530
  - 2. National Marine Fisheries Service  
Southeast Regional Office  
Protected Resources  
Attention: Ms. Karla Reece  
263 13th Avenue S.  
St. Petersburg, Florida 33701  
Email: [Karla.reece@noaa.gov](mailto:Karla.reece@noaa.gov)
  - 3. National Marine Fisheries Service  
Room 266, Military Science Building  
Attention: Mr. Brandon Howard  
South Stadium Drive  
La. State University  
Baton Rouge, Louisiana 70803-7535
- i. All temporary fills must consist of non-erodible material or be protected to prevent erosion.
- j. Any materials used for temporary structures such as cofferdams, equipment pads, or temporary crossings, would be removed as soon as practicable, and the waterway would be restored to preconstruction contours.



- k. Disturbance to riparian vegetation would be kept to a minimum during construction.
- l. No activity shall be authorized under this General Permit which would likely directly or indirectly jeopardize the continued existence of a Federally-listed threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which would likely directly or indirectly destroy or adversely modify the critical habitat of such species. No activity shall be authorized under this General Permit which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed. No activity shall be authorized under this General Permit which "may affect" essential fish habitat as identified under Magnuson-Stevens Fishery Conservation and Management Act, unless essential fish habitat consultation addressing the effects of the proposed activity has been completed.
- m. Discharges would not restrict or impede the movement of aquatic species indigenous to the waters.
- n. All work would be performed in a manner that would minimize increased turbidity of the water in the project area and otherwise avoid adverse effects on water quality and aquatic life especially during fish spawning season. This may require avoiding construction activities during the peak spawning months of April, May, and June.
- o. The discharge would not adversely affect a public water supply intake or a National or State Fish Hatchery intake.
- p. The discharge would not contain unacceptable levels of pathogenic organisms (as prescribed in standards set by the Mississippi Department of Environmental Quality) in areas used for water-contact sports.
- q. The construction activity would not result in the permanent diversion or relocation of a stream or a river channel except where needed to align a waterway crossing to avoid potential damage to the roadway. In no case, would any realignment extend beyond 150 feet upstream and 150 feet downstream from the centerline of a crossing structure. The construction activity would result in neither stream flow impediment nor drain adjacent wetlands.
- r. Authorizations under this General Permit would be valid for five (5) years from the date of the authorizing letter.

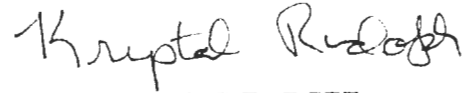
2. Prior to the start of construction activities, coverage under a Stormwater Construction General NPDES Permit shall be obtained. No construction activities shall begin until such approvals are obtained.
3. Extreme care shall be taken to prevent the permanent restriction or impedance of water flow. Pre-construction hydrology shall be maintained.
4. All stream impacts (including streams identified as ephemeral by the U.S. Army Corps of Engineers and described as non-relatively permanent waters) shall be mitigated in kind with stream mitigation elements. In the event that stream mitigation is not available and alternate mitigation proposals are provided, a pre-construction notification shall be provided to MDEQ and 10 working days shall be allowed to provide comments.
5. A pre-construction notification shall be provided to MDEQ for projects that include channel work within waterways found on the latest version of the State of Mississippi's Section 303(d) List of Impaired Water Bodies for sediment or biological impairment or waterways with a completed Total Maximum Daily Load (TMDL) for sediment or biological impairment. This notification shall include the following:
  - a. Justification of why the impacts cannot be avoided;
  - b. Proposed best management practices that would minimize the impacts to receiving sensitive waters; and
  - c. Compensatory mitigation primarily along the same reach of stream or on another impaired stream within the same drainage basin.
6. The turbidity outside the limits of a 750-foot mixing zone shall not exceed the ambient turbidity by more than 50 Nephelometric Turbidity Units.
7. No sewage, oil, refuse, or other pollutants shall be discharged into the watercourse.

The Office of Pollution Control also certifies that there are no limitations under Section 302 nor standards under Sections 306 and 307 of the Federal Water Pollution Control Act which are applicable to the applicant's above-described activity.



This certification is valid for the project as proposed. Any deviations without proper modifications and/or approvals may result in a violation of the 401 Water Quality Certification. If we can be of further assistance, please contact us.

Sincerely,



Krystal Rudolph, P.E., BCEE  
Chief, Environmental Permits Division

KR: chb

cc: Tony Lobred, U.S. Army Corps of Engineers, Vicksburg District  
Willa Brantley, Department of Marine Resources  
David Felder, U.S. Fish and Wildlife Service  
Molly Martin, Environmental Protection Agency