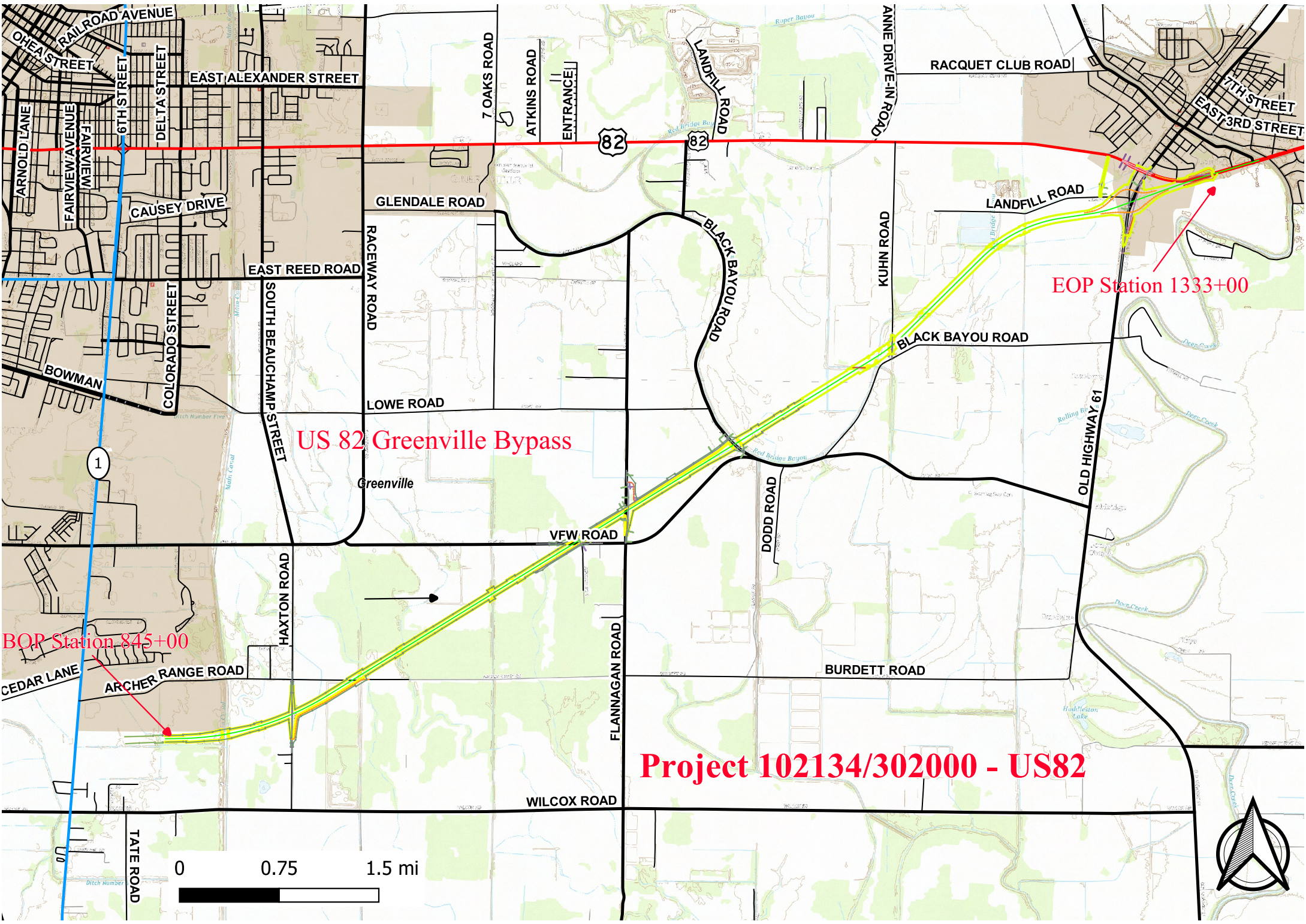


Washington 82
NH-0011-01(056); 102134-302000

Section 404 General Permit 46 and
Section 401 Water Quality

Location Maps



US 82 Greenville Bypass

EOP Station 1333+00

BOP Station 845+00

Project 102134/302000 - US82

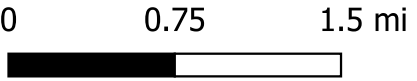


Table of Impacts

Table 1. Data Point Summary Table

Data Point*	Wetland ID#	Site # OR Worksheet #	Latitude	Longitude	Approximate Station Number	Section-Township-Range	Area from ROW to ROW (Acres)	Cowardin Classification	Impact
DP-4	W-11	2	33.335956°	-91.023303°	869+63	S15 T17N R8W	0.28	PSS	0.02 acre will be temporarily impacted by temporary haul roads on outside of bridges; 40 feet (0.06 Ac) of additional shade width from new bridges; temporary impacts from bridge construction; Main Canal Bridged; WK4
DP-5		2	33.335944°	-91.023238°	869+82	S15 T17N R8W		Upland	
DP-9	W-2B	4	33.342436	-91.005243°	930+70	S7 T17N R8W	0.42	PFO	0.38 acre will be permanently impacted through fill required to construct the roadway and embankment, and 0.03 acre will be temporarily impacted outside construction limits; WK6
DP-10		4	33.342376°	-91.005349°	929+68	S7 T17N R8W		Upland	
DP-13		5	33.344650°	-91.001298°	944+55	S7 T17N R8W		Upland	
DP-14	W-12A	5	33.344626°	-91.001185°	945+50 To 946+43	S7 T17N R8W	0.73	PSS	0.48 acre will be permanently impacted through fill required to construct the roadway and embankment, Areas outside construction limits can be cleared but no grubbing is allowed; Widow Bayou Headwater mapped as PSS wetland due to functionality; WK6
DP-17		6	33.347348°	-90.996451°	962+32	S7 T17N R8W		Upland	
DP-18	W-12B	6	33.347177°	-90.996463°	946+43 To 961+00	S7 T17N R8W	9.16	PFO	6.44 acres will be permanently impacted through fill required to construct the roadway and embankment; Areas outside construction limits can be cleared but no grubbing is allowed; Refer to WK6 & WK7 for Contractor Notes for Outside Slopestake areas.
DP-22	W-15D	8	33.357391°	-90.977976°	1022+45 To 1030+82	S38 T18N R8W	2.65	PFO	2.28 acres will be permanently impacted through fill required to construct the roadway and embankment, and 0.37 acre will be temporarily impacted outside construction limits; WK9
DP-23	W-15B	8	33.356602°	-90.978792°	1024+22 To 1028+00R	S6 T17N R8W	1.75	PFO	1.74 acres will be permanently impacted through fill required to construct the roadway and embankment, and 0.01 acre will be temporarily impacted outside construction limits; WK9
OB-23	W-15C	8	33.356776°	-90.978059°	1027+00 To 1028+15R	S6 T17N R8W	0.17	PSS	0.14 acre will be permanently impacted through fill required to construct the roadway and embankment, and 0.02 acres will be temporarily impacted outside construction limits; WK9
DP-24	W-15A	8	33.356233°	-90.980336°	1020+20 To 1023+55R	S6 T17N R8W	2.72	PFO	1.89 acres will be permanently impacted through fill required to construct the roadway and embankment, and 0.14 acres will be temporarily impacted outside construction limits; WK9
DP-25		12	33.371370	-90.951790	1124+30	S32 T18N R7W		Upland	
DP-25B	W-17B	14	33.382575°	-90.933229°	1194+70 To 1196+12	S28 T18N R7W	0.90	PSS	0.77 acre will be permanently impacted through fill required to construct the roadway and embankment, and 0.13 acre will be temporarily impacted outside construction limits; Stream area functioning as wetland; WK15
DP-26		14	33.382453°	-90.933241°	1194+15	S28 T18N R7W		Upland	
DP-27	W-17A	14	33.377539°	-90.939201°	1170+00	S29 T18N R7W	0.51	PFO	0.42 acre will be permanently impacted through fill required to construct the roadway and embankment, and 0.09 acre will be temporarily impacted outside construction limits; WK14
DP-28		14	33.377516°	-90.939050°	1169+12	S29 T18N R7W		Upland	

*This impact assessment does not include isolated wetlands preliminarily determined to be non-jurisdictional under the New Water Rule of 2020.

DP- Data point- collection point for sampling data for wetland assessment
W- Wetland- areas described as wetlands
PEM- Palustrine Emergent; PFO- Palustrine Forested; PSS- Palustrine Scrub-Shrub
Station Numbers are approximate

Wetland Summary:	Total Present (acres)	Permanent Fill (acres)	Temporary (acres)
Forested	18.60	13.15	0.64
Scrub-Shrub	2.08	1.39	0.17
Emergent	0.00	0	0
Total**	20.68	14.54	0.81

Table 2. Channel Assessment Table

CA #	Site #/ OR Worksheet #	Latitude*	Longitude*	Section- Township- Range	Sta.	Type	Length in Project Area (feet)	Channel Width (feet)	Name	Impact
1	4	33.342263°	-91.006184°	S7 and S8 T17N R8W	927+40	I	529	10	N/A	410 feet DBL 12X8 RCBB fill with 3:1 wingwalls and riprap; 50 feet impacts due to slope construction; WK6
3	11	33.368149°	-90.957455°	S31 T18N R7W	1103+43	P	818	47	Red Bridge Bayou	88 feet will be impacted by bridge shading. 160 feet of stream and embankment will be temporarily impacted due to bridge construction; WK11 & WK12; Note: Add 40 feet from Main Canal Station 870+00
7	14	33.377865°	-90.939190°	S32 T18N R7W	1169+61	I	611	16	Red Bridge Bayou	460 feet 8X8 RCBC with 3:1 wingwalls and riprap as fill and relocation; WK14

*This impact assessment does not include ephemeral streams or agricultural or roadside ditches preliminarily determined to be non-jurisdictional under the New Water Rule of 2020.

CA- Channel Assessment- Channel Assessment point location

Type:

P-Perennial

I-Intermittent

Station numbers (Sta.) are approximate

*CA Summary:	Total Present (linear feet)	New Bridge Width Shade/Clear (ft)	Temporary Bridge Width Shade/Clear (ft)	Culvert/ Pipe (ft)	Rip-Rap/ Armor (ft)	Relocate and Fill (ft)	New Channel with Rip-Rap (ft)
Perennial	818	128	0	0	0	0	0
Intermittent	1,140	0	0	460	0	460	0
Ephemeral and Non-Jurisdictional OWs	3,912	0	0	0	0	0	0
Total	5,870	128	0	460	0	460	0

*This impact assessment does not include ephemeral streams or agricultural or roadside ditches preliminarily determined to be non-jurisdictional under the New Water Rule of 2020.

Note: ECD-17 “Temporary Stream Crossing” will be in the plans and can be considered.

Roadway and Bridge Plans

GENERAL INDEX

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

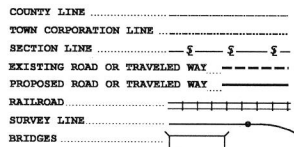
BRIDGE STRUCTURES REQ'D.

- ① STA. 867 + 70.02 LT. LN., STA. 867 + 54.20 RT. LN.
TWIN BRIDGES REQ'D. - 1@40'16@40', 1@80', 1@40', 1@40' SPANS
242.20' ALONG & LT. LN.
242.20' ALONG & RT. LN.
- ② HAXTON ROAD @ U.S. 82 STA. 896 + 58.91 STA. 18 + 18.72 - STA. 21 + 61.20
SINGLE UNDERPASS REQ'D. - 1@380' (80',100',100',80') SPAN
382.56' ALONG & E
- ③ FLANNAGAN @ U.S. 82 STA. 1053 + 10.06 STA. 18 + 00.81 - STA. 23 + 07.38
SINGLE UNDERPASS REQ'D. - 1@504' (80',108',108',108',90') SPAN
506.77' ALONG & E
- ④ STA. 101 + 19.29 LT. LN., STA. 101 + 42.79 RT. LN.
TWIN OVERPASS REQ'D. - 1@350' (85'-45'-45'-40')
PRESTRESSED CONCRETE BEAM SPAN
382.42' ALONG & E
- ⑤ STA. 1175 + 50.65 LT. LN., STA. 1174 + 77.58 RT. LN.
TWIN OVERPASSES REQ'D. - 1@90', 1@116', 1@90' SPANS
238.95' ALONG & LT. LN.
238.95' ALONG & RT. LN.
- ⑥ OLD HWY. 81 @ U.S. 82 STA. 1280 + 34.56 STA. 197 + 93.72 - STA. 202 + 04.89
SPANS REQ'D. - 1@95', 1@110', 1@110', 1@95'
412.77' ALONG & E

BOX BRIDGES REQ'D.

- STA. 338 + 09 - DBL. 12'x6' BOX BRIDGE REQ'D.
30' LT. FWD. SKEW, 30.37' ALONG & E
- STA. 827 + 45 - DBL. 12'x6' BOX BRIDGE REQ'D.
30' LT. FWD. SKEW, 30.37' ALONG & E
- STA. 889 + 17 - DBL. 12'x10' BOX BRIDGE REQ'D.
30' LT. FWD. SKEW, 30.46' ALONG & E
- STA. 1051 + 35 - DBL. 10'x6' BOX BRIDGE REQ'D.
30' LT. FWD. SKEW, 25.55' ALONG & E
- STA. 1160 + 70 - TRP. 10'x10' BOX BRIDGE REQ'D.
58' RT. FWD. SKEW, 58.61' ALONG & E
- STA. 1104 + 90 - DBL. 8'x6' BOX BRIDGE REQ'D.
30' RT. FWD. SKEW, 20.64' ALONG & E
- STA. 1233 + 60 - DBL. 8'x6' BOX BRIDGE REQ'D.
52' RT. FWD. SKEW, 29.03' ALONG & E

CONVENTIONAL SYMBOLS



STATE OF MISSISSIPPI
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

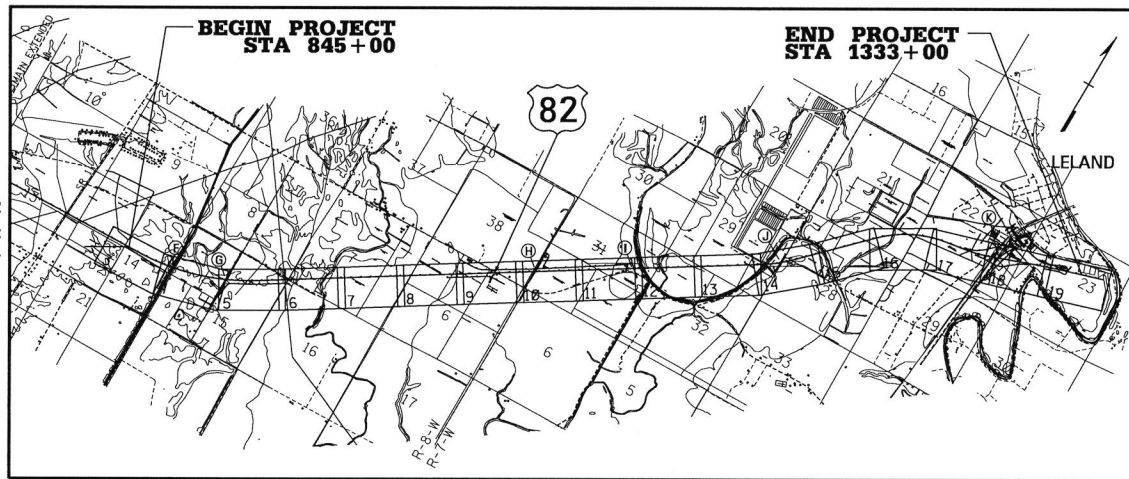
**PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
FEDERAL AID PROJECT NO. NH-0011-01(056)**

U.S. 82 FROM
SR-1 TO LELAND
WASHINGTON COUNTY

FMS CON. NO. 102134 / 304000

SCALES

PLAN	1 IN. = 100 FT.
PROFILE	HOR. 1 IN. = 100 FT.
	VERT. 1 IN. = 10 FT.
LAYOUT	1 IN. = 3000 FT.



EQUATIONS

NONE

EXCEPTIONS

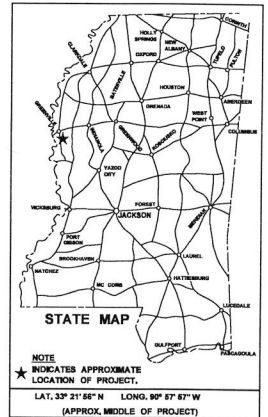
NONE

LENGTH DATA

LENGTH OF ROADWAY	47,681.11 FT.	9.03	MI.
LENGTH OF BRIDGES	1,118.89 FT.	9.21	MI.
LENGTH OF PROJECT (NET)		9.24	MI.
LENGTH OF EXCEPTIONS	0.00 FT.		MI.
LENGTH OF PROJECT (GROSS)		9.24	MI.

R.O.W. FMS	102134/202000
PLANS STAGE	DATE PRINTED
<input type="checkbox"/> CONCEPTUAL	
<input type="checkbox"/> PRE-R.O.W.	
<input type="checkbox"/> FIELD INSPECTION	
<input type="checkbox"/> R.O.W. PLANS TO SMD	
<input type="checkbox"/> FINAL R.O.W.	
<input type="checkbox"/> R.O.W. REVISION	
<input checked="" type="checkbox"/> OFFICE REVIEW	03/26/2021

STATE	PROJECT NUMBER	SHEET NO.
MISSISSIPPI	NH-0011-01(056)	1



DESIGN CONTROL

70 MPH = V (SPEED DESIGN)

ADT (2025) = 8820 ; ADT (2045) = 10770

DRV = 1000 ; D = 50 % T = 25 %

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 REQUIRED, CHECK SUBMITTED BY MDOT (DISTRIBUTE AREA=0 ACRES)

S REQUIRED, SEND TO BE SUBMITTED BY CONTRACTOR (IT 10 439 ADDRESS)

N NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY: _____

P S & E DATE:

APPROVED: _____

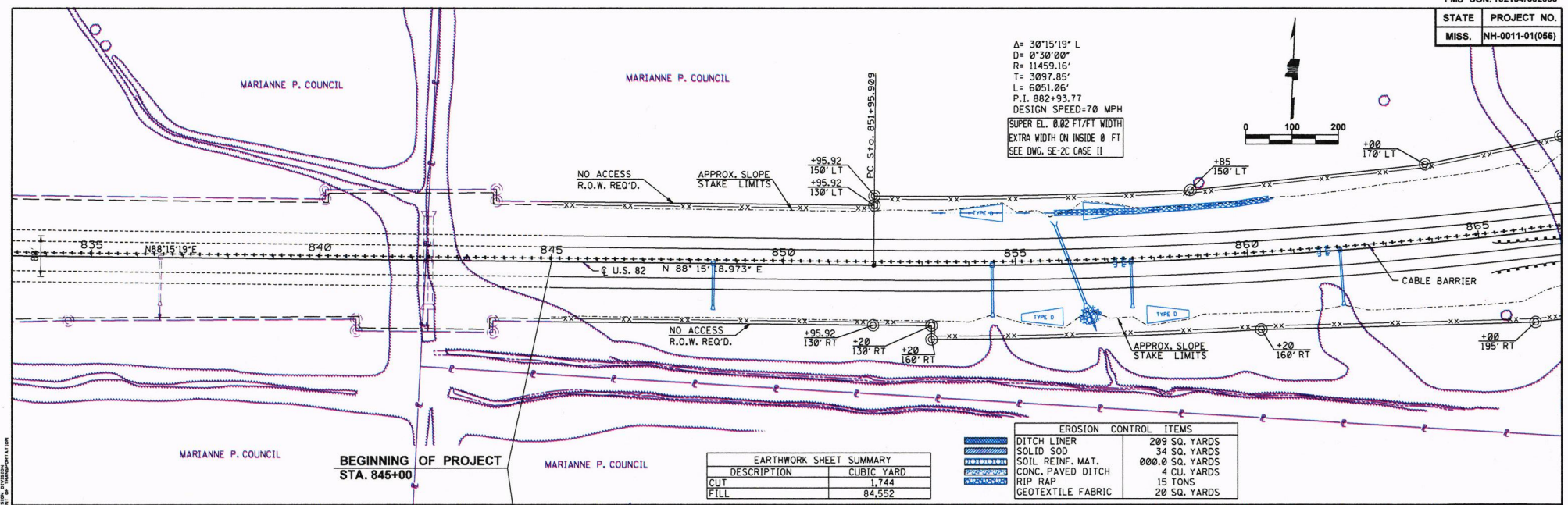
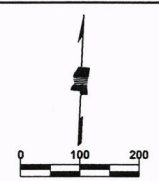
DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER

EXECUTIVE DIRECTOR

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PRELIMINARY
NOT FOR
CONSTRUCTION

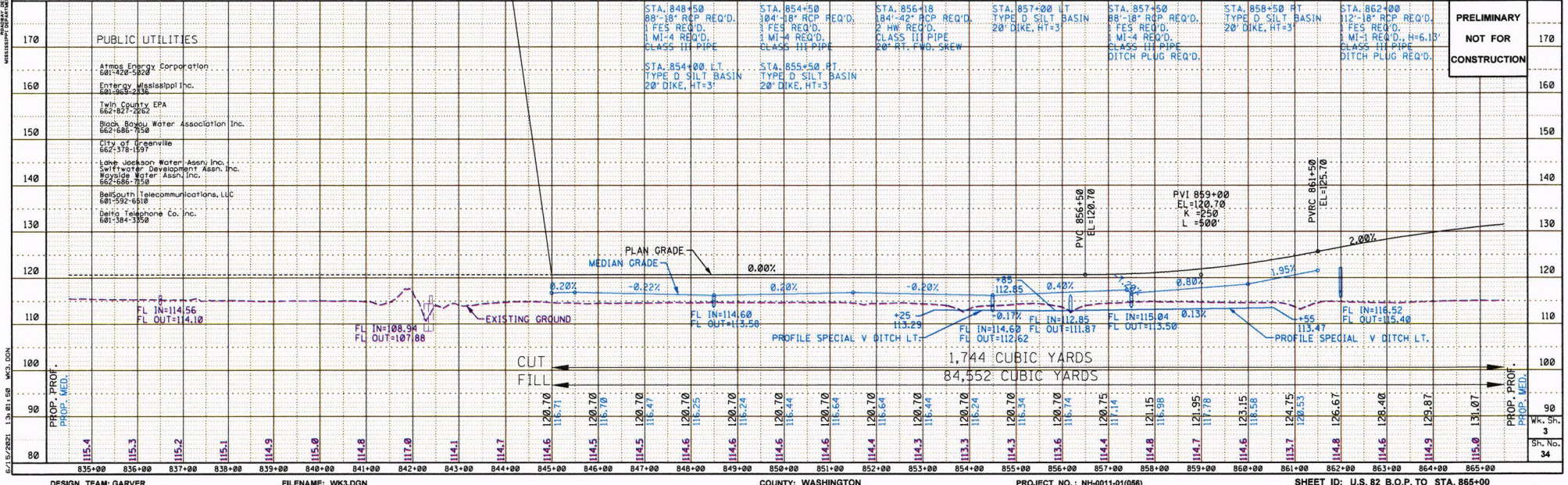
A= 30°15'19" L
D= 0°30'00"
R= 11459.16'
T= 3097.85'
L= 6051.06'
P.I. 882-93.77
DESIGN SPEED=70 MPH
SUPER EL. 0.02 FT/FT WIDTH
EXTRA WIDTH ON INSIDE 0 FT
SEE DMG. SE-2C CASE II



EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	1,744
FILL	84,552

EROSION CONTROL ITEMS	
DITCH LINER	209 SQ. YARDS
SOLID SOD	34 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONC. PAVED DITCH	4 CU. YARDS
RIP RAP	15 TONS
GEOTEXTILE FABRIC	20 SQ. YARDS

BEGINNING OF PROJECT
STA. 845+00



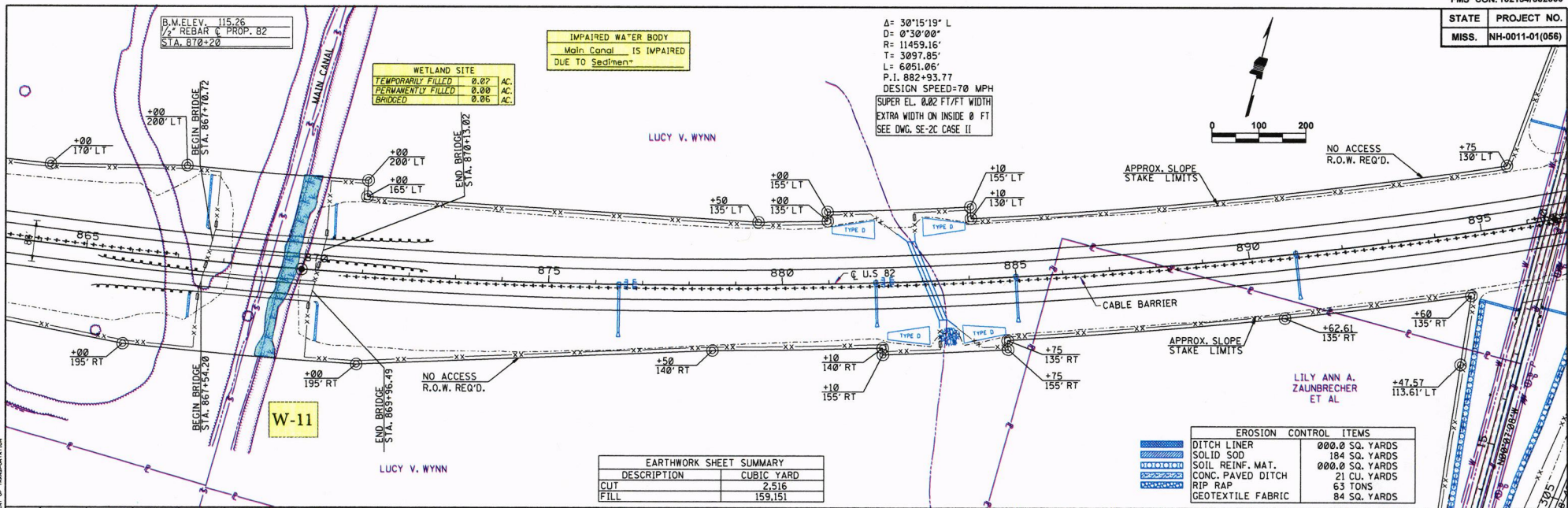
PRELIMINARY
NOT FOR
CONSTRUCTION

B.M. ELEV. 115.26
1/2" REBAR @ PROP. 82
STA. 870+20

IMPAIRED WATER BODY
Main Canal IS IMPAIRED
DUE TO Sediment

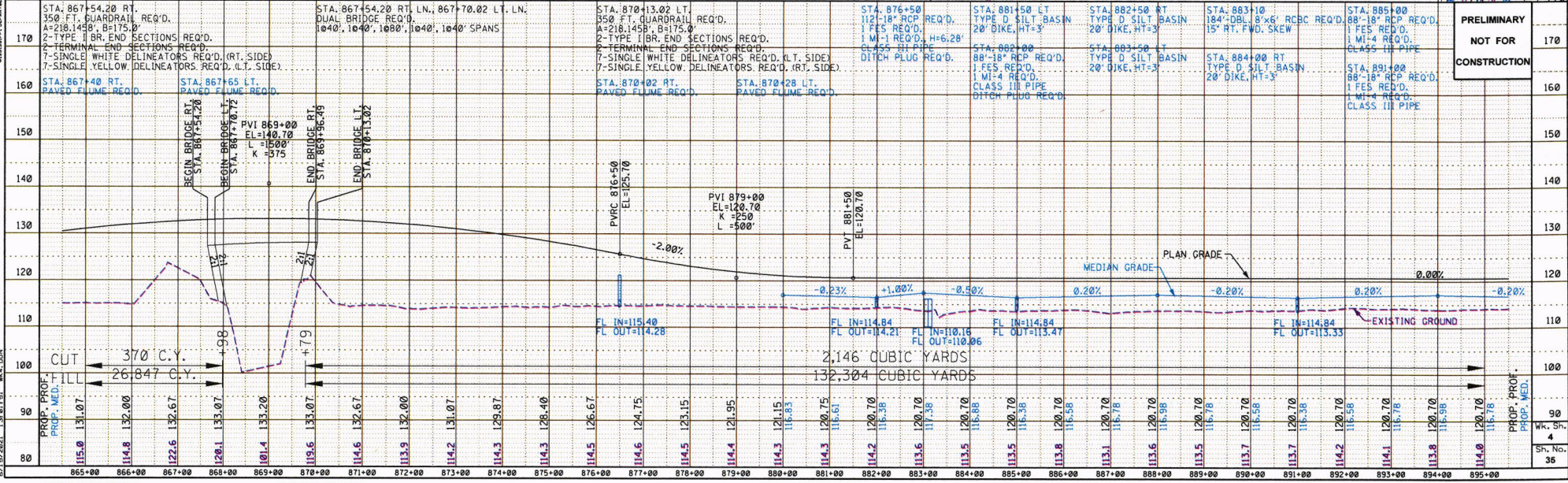
WETLAND SITE
TEMPORARILY FILLED 0.07 AC.
PERMANENTLY FILLED 0.00 AC.
BRIDGED 0.06 AC.

A= 30°15'19" L
D= 0°30'00"
R= 11459.16'
T= 3097.85'
L= 6051.06'
P.I. 882+93.77
DESIGN SPEED=70 MPH
SUPER EL. 0.02 FT/FT WIDTH
EXTRA WIDTH ON INSIDE 0 FT
SEE DWG. SE-2C CASE II



EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	2,146
FILL	159,151

EROSION CONTROL ITEMS	
DITCH LINER	000.0 SQ. YARDS
SOLID SOD	184 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONC. PAVED DITCH	21 CU. YARDS
RIP RAP	63 TONS
GEOTEXTILE FABRIC	84 SQ. YARDS

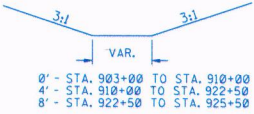


PRELIMINARY
NOT FOR
CONSTRUCTION

STATE	PROJECT NO.
MISS.	NH-0011-01(066)

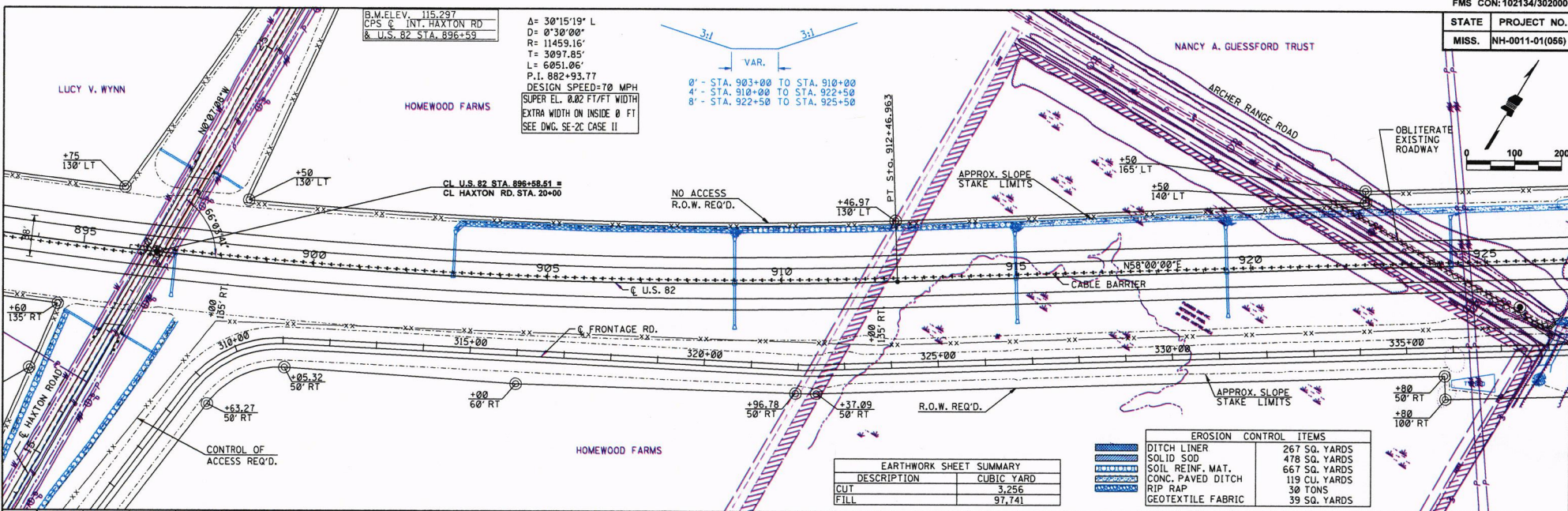
B.M. ELEV. 115.297
 CPS @ INT. HAXTON RD
 & U.S. 82 STA. 896+55

Δ = 30°15'19" L
 D = 0°30'00"
 R = 11459.16'
 T = 3097.85'
 L = 6051.06'
 P.I. 882+93.77
 DESIGN SPEED=70 MPH
 SUPER EL. 0.82 FT/FT WIDTH
 EXTRA WIDTH ON INSIDE 0 FT
 SEE DWG. SET-2L CASE II



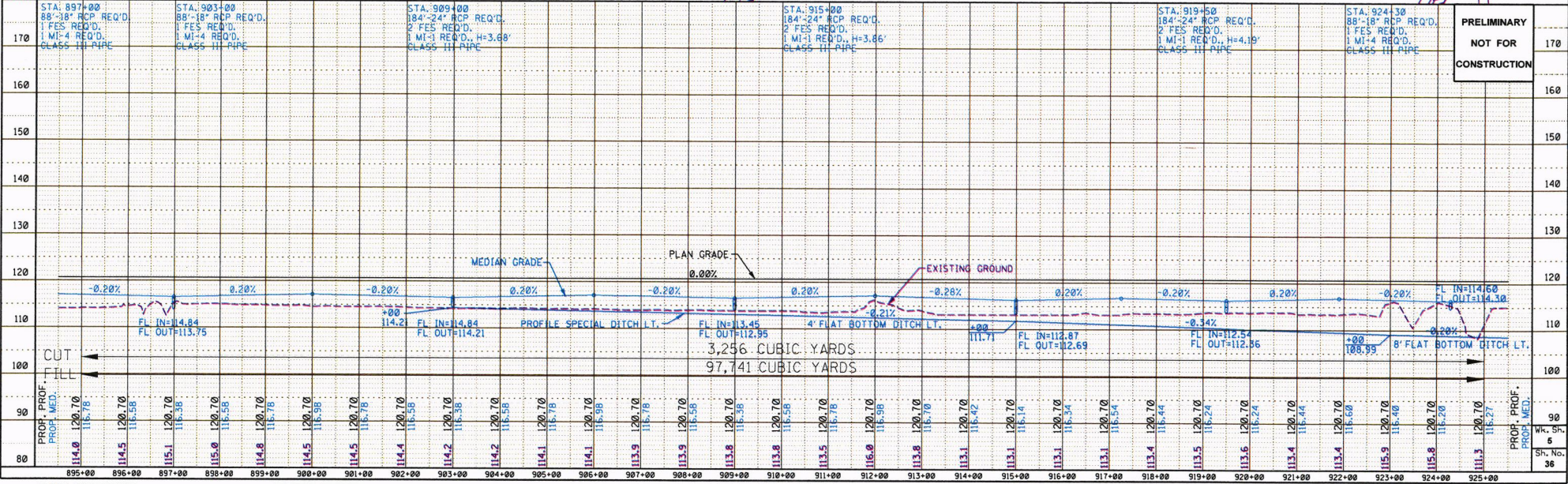
NANCY A. GUESSFORD TRUST

ARCHER RANGE ROAD



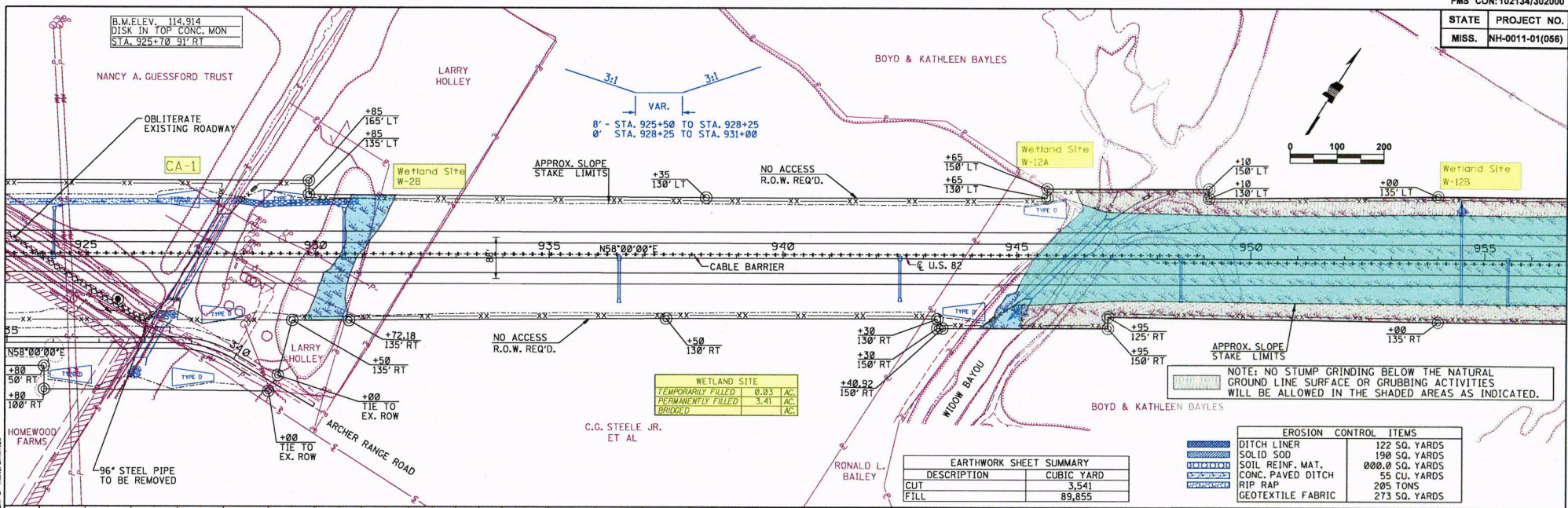
DESCRIPTION	CUBIC YARD
CUT	3,256
FILL	97,741

DITCH LINER	267 SQ. YARDS
SOLID SOD	478 SQ. YARDS
SOIL REINF. MAT.	667 SQ. YARDS
CONC. PAVED DITCH	119 CU. YARDS
RIP RAP	30 TONS
GEOTEXTILE FABRIC	39 SQ. YARDS



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 CONSTRUCTION

6/12/2021 12:48:52 WKS.DGN

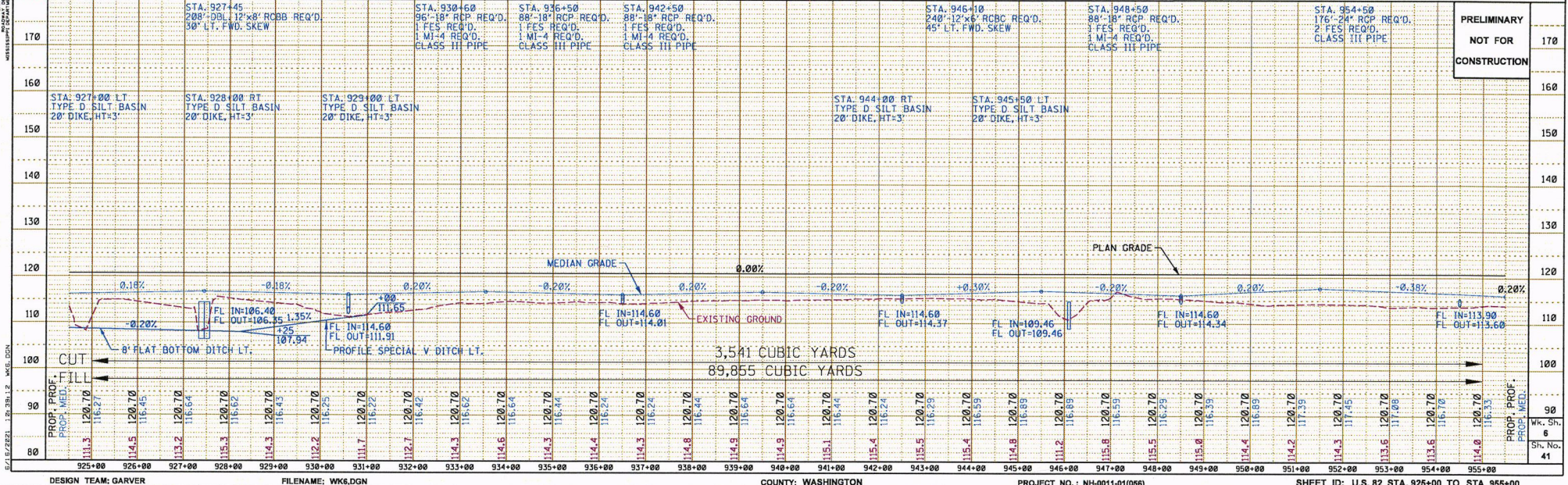


WETLAND SITE	
TEMPORARILY FILLED	0.03 AC.
PERMANENTLY FILLED	3.41 AC.
BRIDGED	AC.

EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	3,541
FILL	89,855

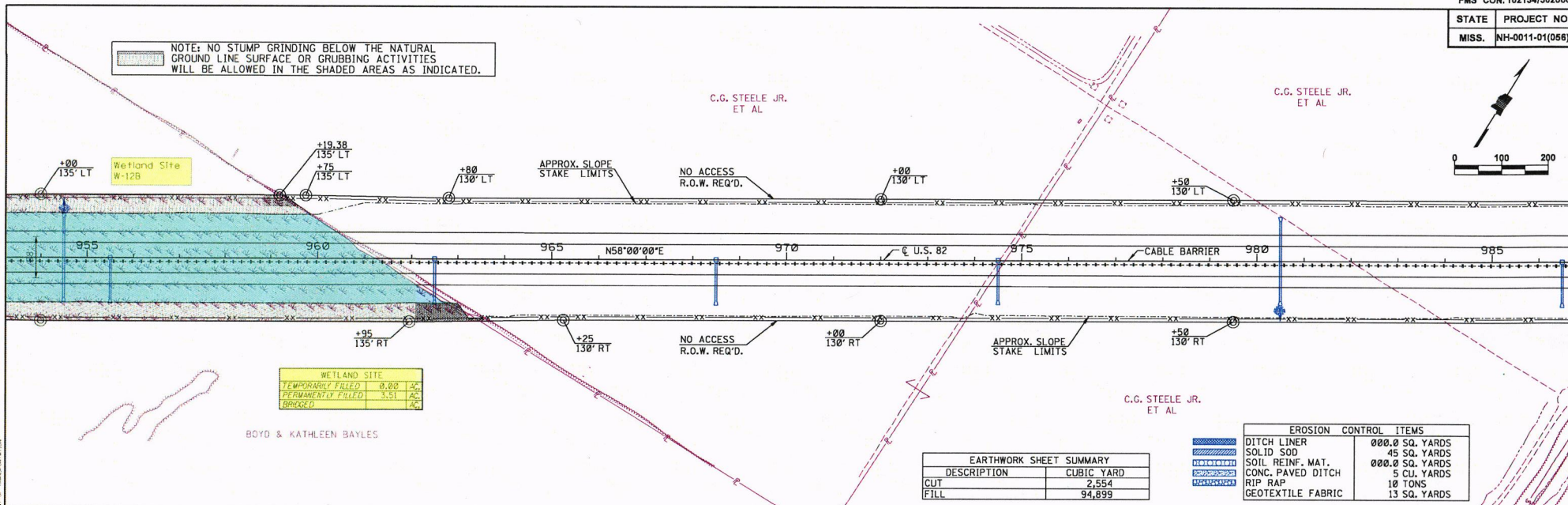
NOTE: NO STUMP GRINDING BELOW THE NATURAL GROUND LINE SURFACE OR GRUBBING ACTIVITIES WILL BE ALLOWED IN THE SHADED AREAS AS INDICATED.

EROSION CONTROL ITEMS	
DITCH LINER	122 SQ. YARDS
SOLID SOD	190 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONG. PAVED DITCH	55 CU. YARDS
RIP RAP	205 TONS
GEOTEXTILE FABRIC	273 SQ. YARDS



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CONSTRUCTION

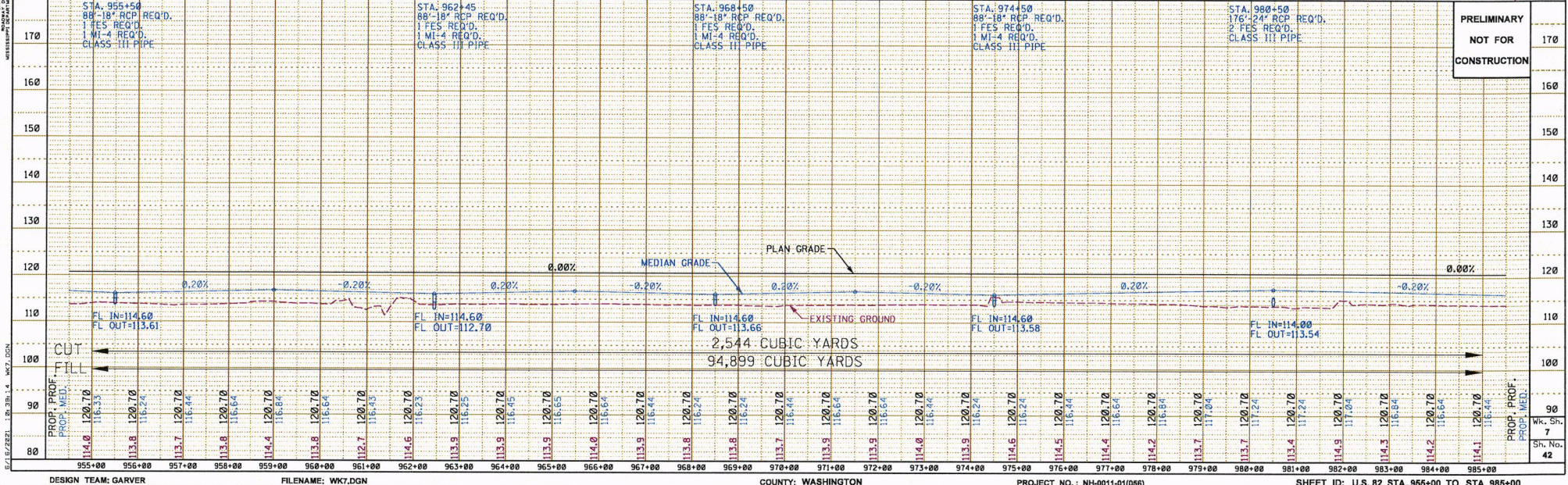
NOTE: NO STUMP GRINDING BELOW THE NATURAL GROUND LINE SURFACE OR GRUBBING ACTIVITIES WILL BE ALLOWED IN THE SHADED AREAS AS INDICATED.



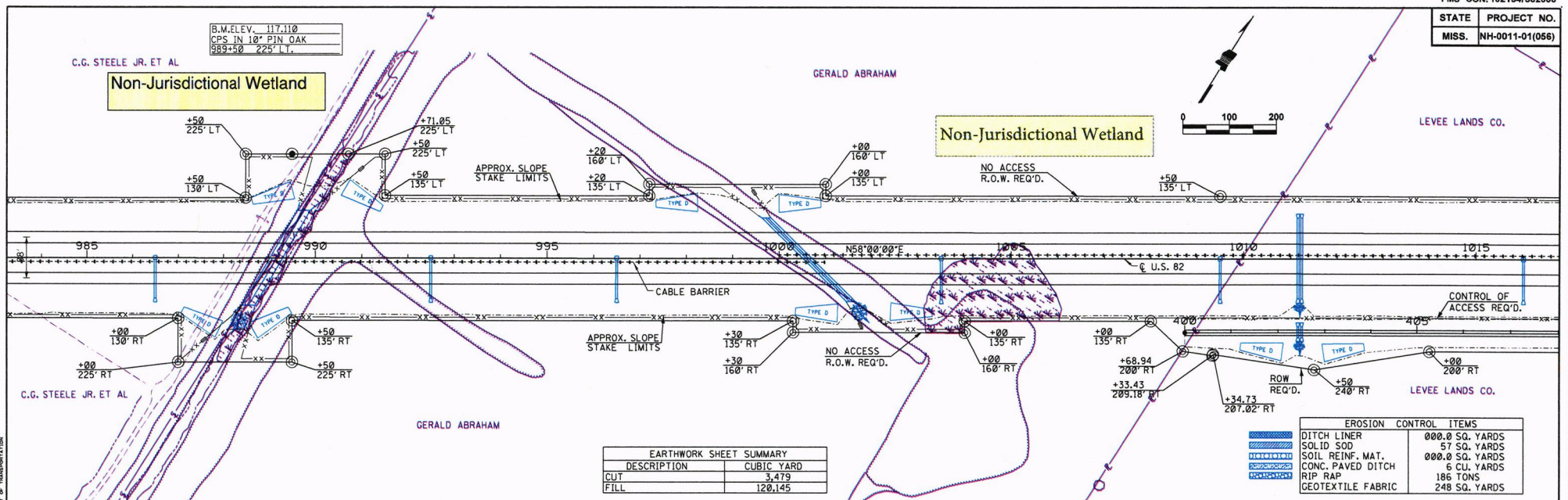
WETLAND SITE	
TEMPORARILY FILLED	0.00 AC
PERMANENTLY FILLED	3.51 AC
BARRAGED	AC

EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	2,554
FILL	94,899

EROSION CONTROL ITEMS	
DITCH LINER	000.0 SQ. YARDS
SOLID SOD	45 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONC. PAVED DITCH	5 CU. YARDS
RIP RAP	10 TONS
GEOTEXTILE FABRIC	13 SQ. YARDS

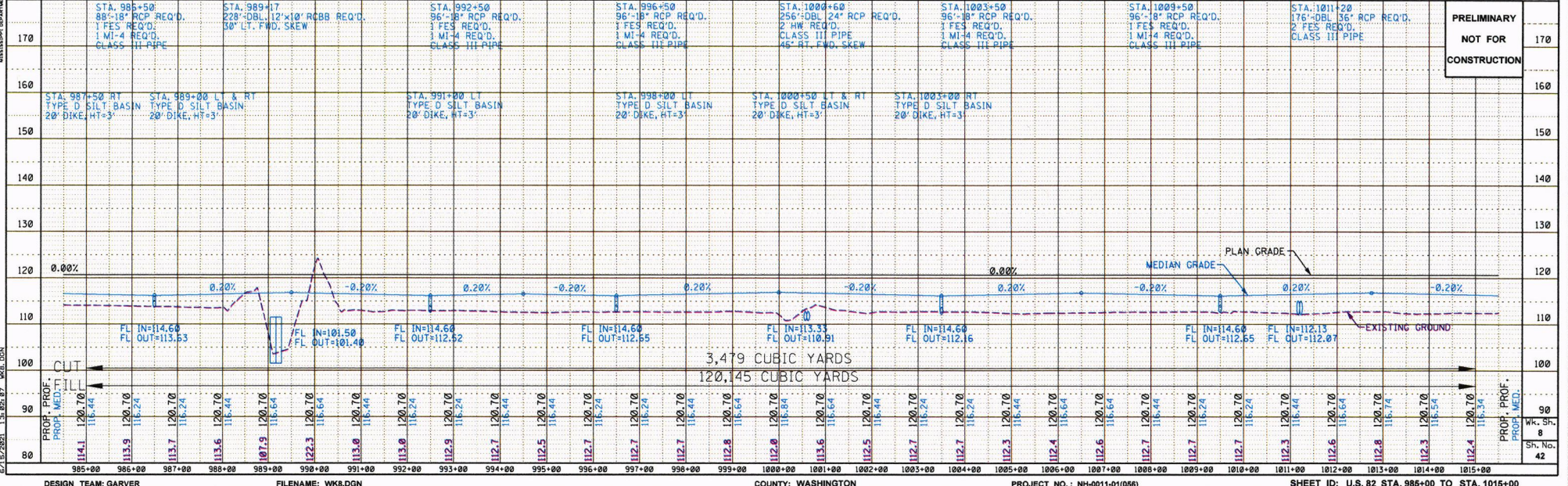


PRELIMINARY
NOT FOR
CONSTRUCTION



EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	3,479
FILL	120,145

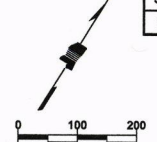
EROSION CONTROL ITEMS	
DITCH LINER	000.0 SQ. YARDS
SOLID SOD	57 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONC. PAVED DITCH	6 CU. YARDS
RIP RAP	186 TONS
GEOTEXTILE FABRIC	248 SQ. YARDS



PRELIMINARY
NOT FOR
CONSTRUCTION

PROF. PROF.
WK. SP.
8
SH. NO.
42

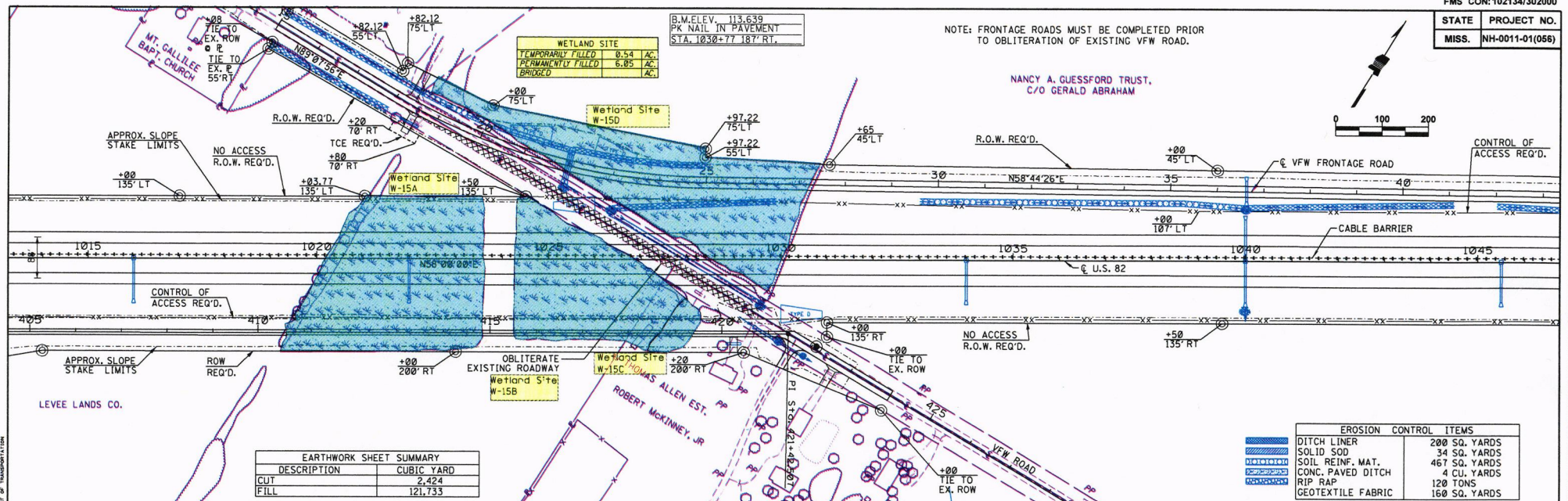
NOTE: FRONTAGE ROADS MUST BE COMPLETED PRIOR TO OBLITERATION OF EXISTING VFW ROAD.



WETLAND SITE	
TEMPORARILY FILLED	0.54 AC.
PERMANENTLY FILLED	6.85 AC.
BRIDGE	AC.

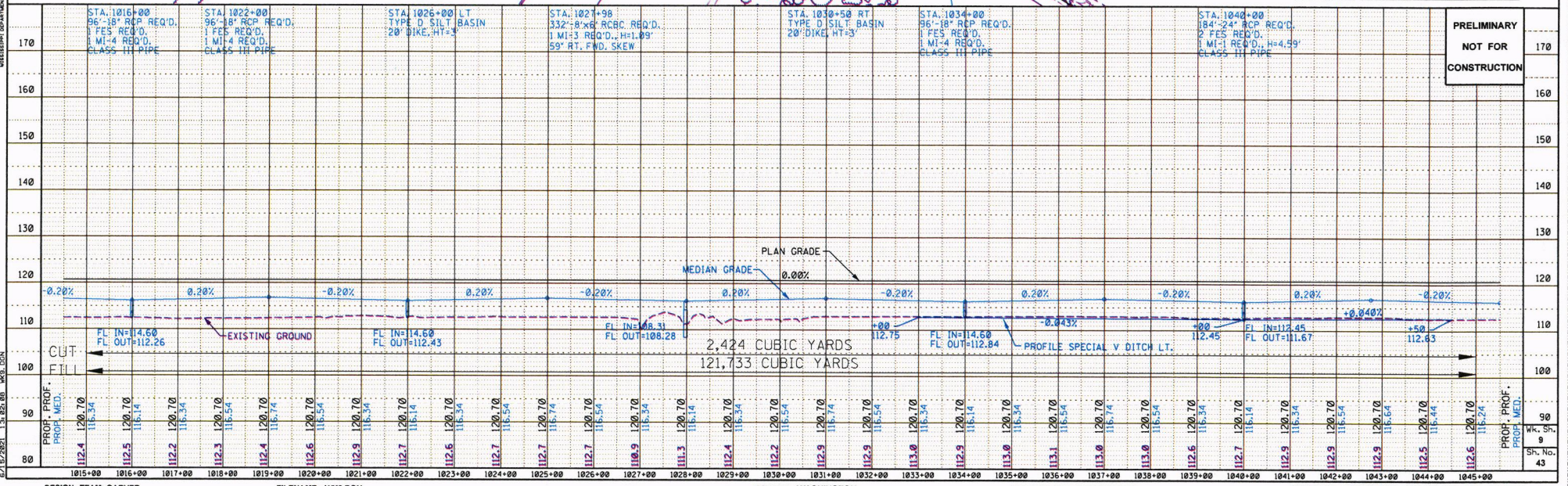
B.M.ELEV. 113.639
PK NAIL IN PAVEMENT
STA. 1030+77 18' RT.

NANCY A. GUESSFORD TRUST,
C/O GERALD ABRAHAM



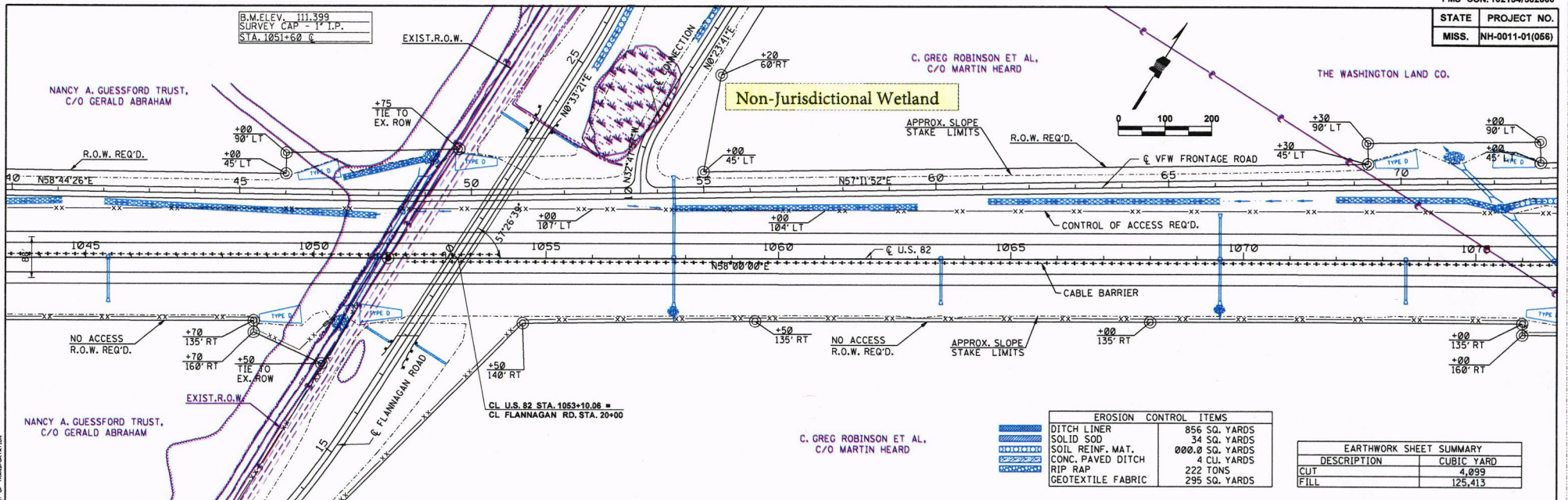
EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	2,424
FILL	121,733

EROSION CONTROL ITEMS	
DITCH LINER	200 SQ. YARDS
SOLID SOD	34 SQ. YARDS
SOIL REINF. MAT.	467 SQ. YARDS
CONC. PAVED DITCH	4 CU. YARDS
RIP RAP	120 TONS
GEOTEXTILE FABRIC	160 SQ. YARDS



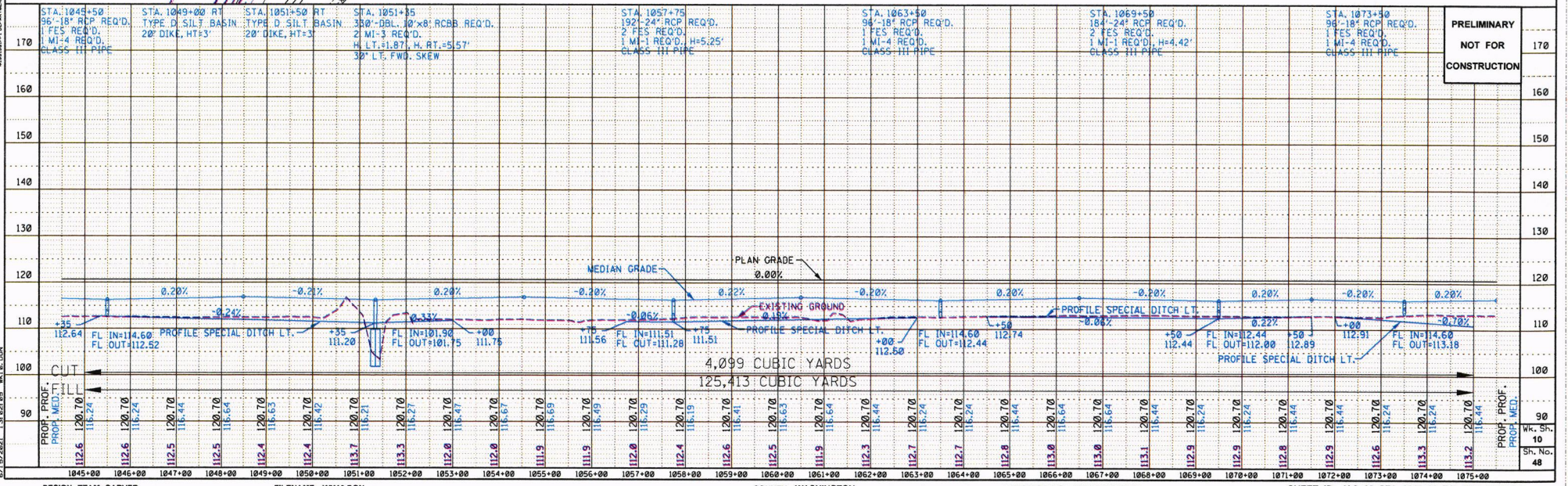
2,424 CUBIC YARDS
121,733 CUBIC YARDS

PRELIMINARY
NOT FOR
CONSTRUCTION



EROSION CONTROL ITEMS	
DITCH LINER	856 SQ. YARDS
SOLID SOD	34 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONC. PAVED DITCH	4 CU. YARDS
RIP RAP	222 TONS
GEOTEXTILE FABRIC	295 SQ. YARDS

EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	4,099
FILL	125,413



PRELIMINARY
NOT FOR
CONSTRUCTION

MR. SH. 10
SH. NO. 48

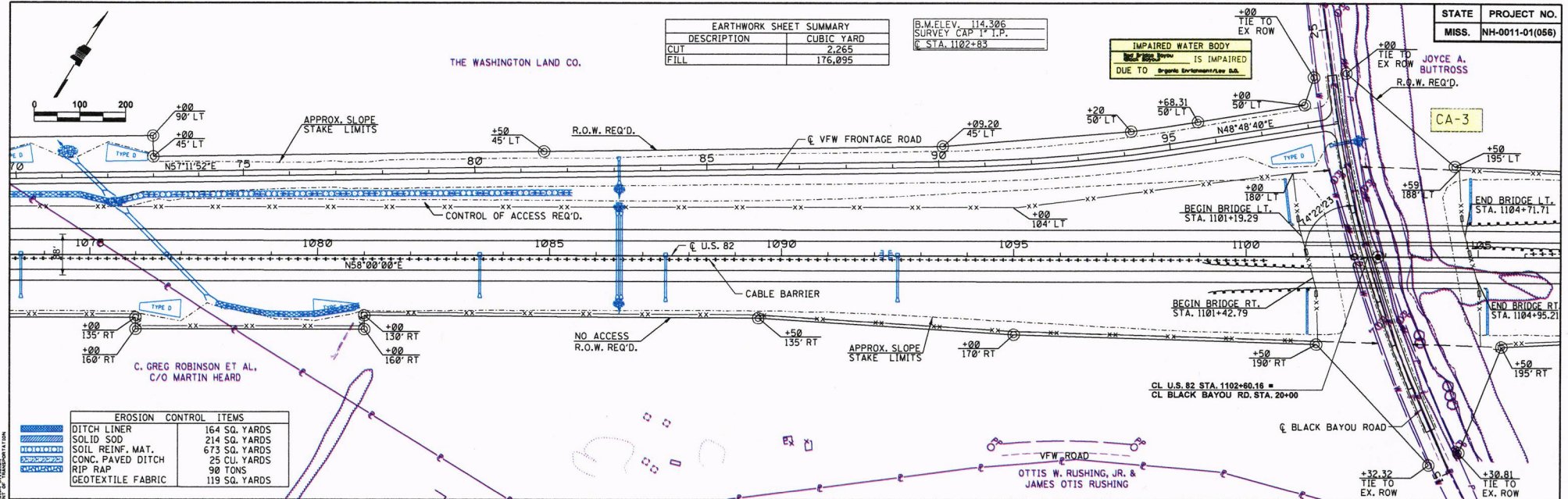
EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	2,265
FILL	176,095

B.M. ELEV. 114.306
 SURVEY CAP 1" P.
 @ STA. 1102+83

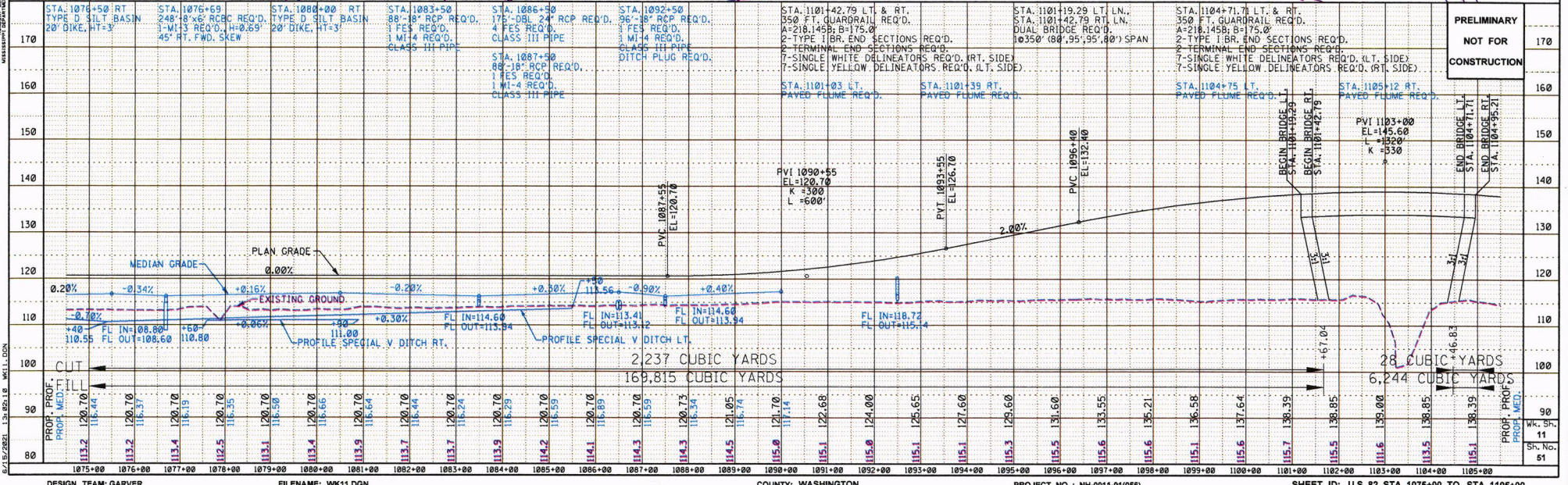
IMPAIRED WATER BODY
 IS IMPAIRED
 DUE TO Organic Enrichment/Algae S.A.

CA-3

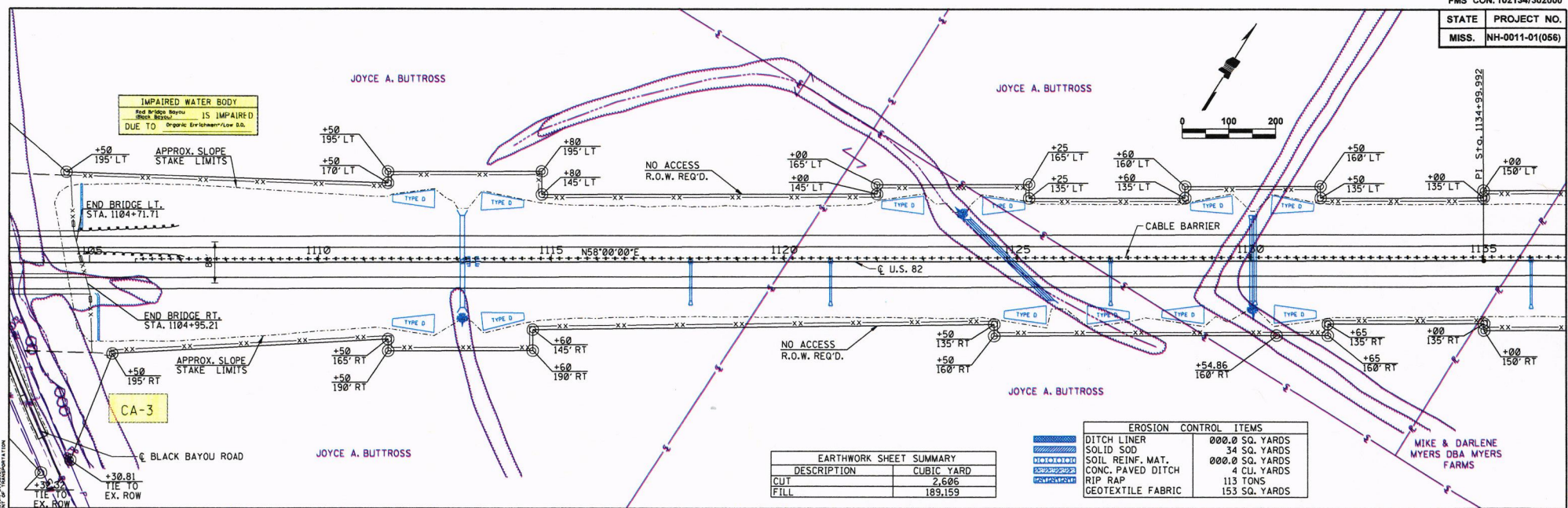
THE WASHINGTON LAND CO.



EROSION CONTROL ITEMS	
DITCH LINER	164 SQ. YARDS
SOLID SOD	214 SQ. YARDS
SOIL REINF. MAT.	673 SQ. YARDS
CONC. PAVED DITCH	25 CU. YARDS
RIP RAP	90 TONS
GEOTEXTILE FABRIC	119 SQ. YARDS

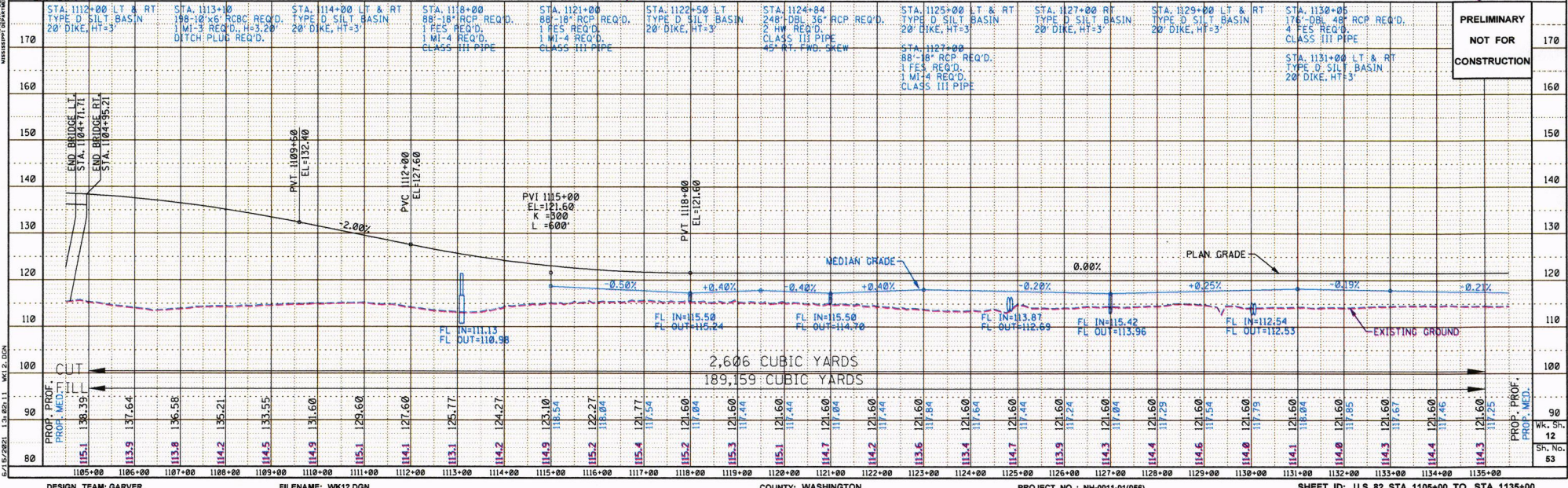


PRELIMINARY
 NOT FOR
 CONSTRUCTION



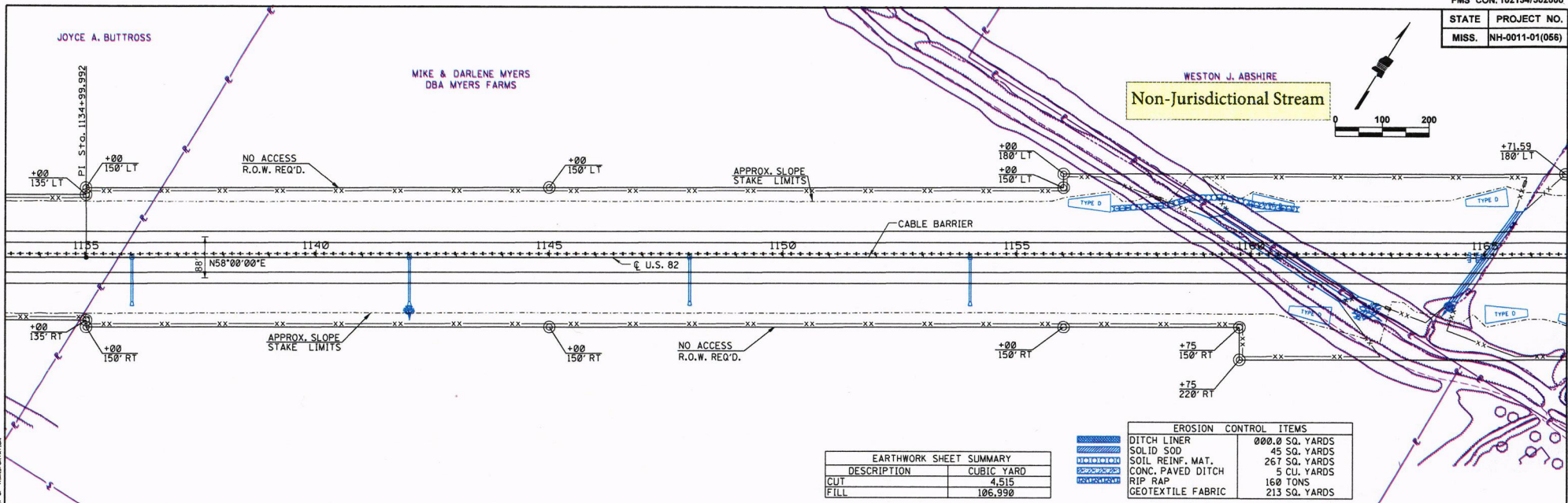
EARTHWORK SHEET SUMMARY

DESCRIPTION	CUBIC YARD
CUT	2,606
FILL	189,159



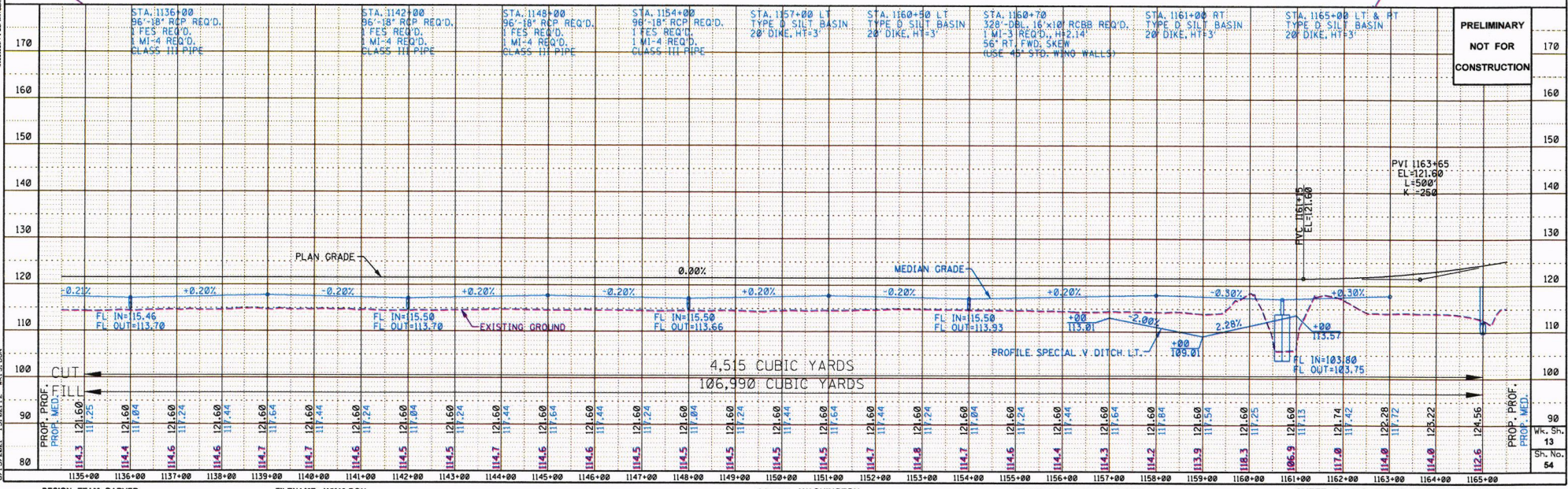
PRELIMINARY
 NOT FOR
 CONSTRUCTION

90
 WK. SH.
 12
 SH. No.
 53



DESCRIPTION	CUBIC YARD
CUT	4,515
FILL	106,990

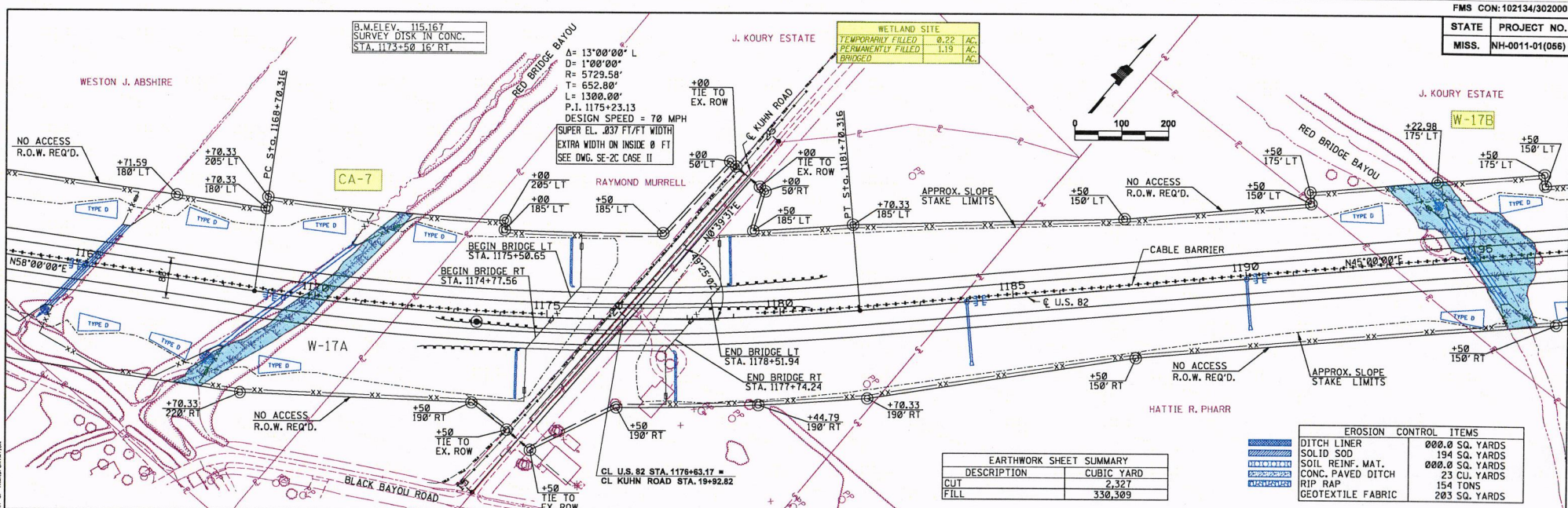
DITCH LINER	000.0 SQ. YARDS
SOLID SOD	45 SQ. YARDS
SOIL REINF. MAT.	267 SQ. YARDS
CONC. PAVED DITCH	5 CU. YARDS
RIP RAP	160 TONS
GEOTEXTILE FABRIC	213 SQ. YARDS



4,515 CUBIC YARDS
106,990 CUBIC YARDS

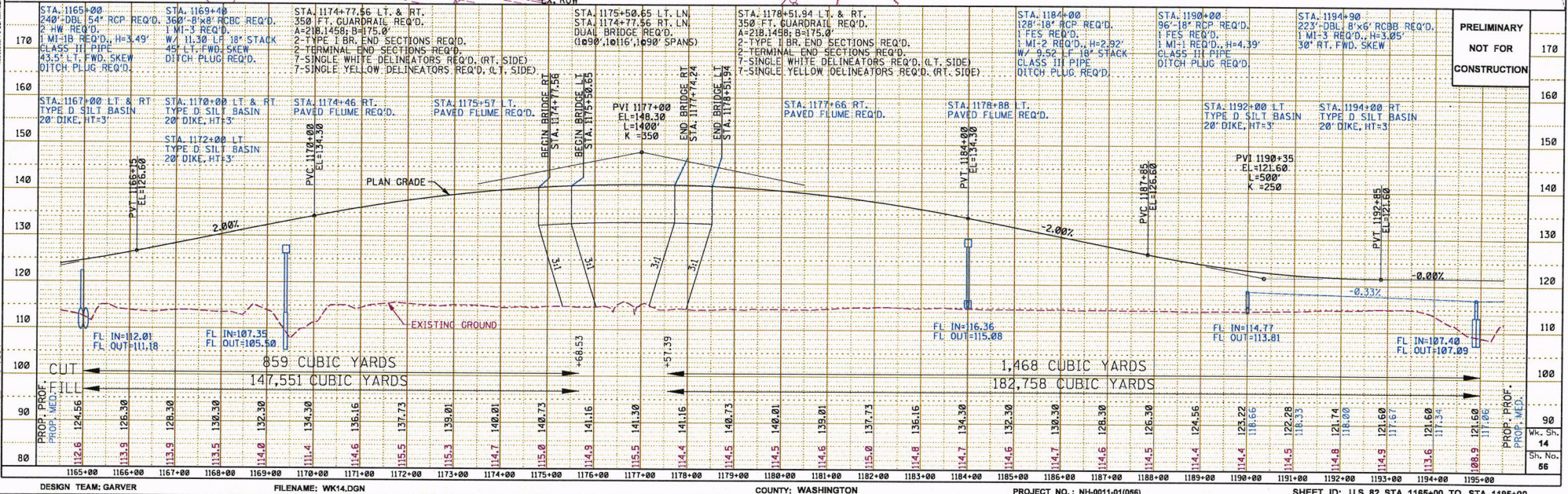
PRELIMINARY
NOT FOR
CONSTRUCTION

MISSISSIPPI STATE UNIVERSITY, COLLEGE OF ENGINEERING, CIVIL ENGINEERING DEPARTMENT
 6/12/2021 1:30:12 WK13.DGN



EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	2,327
FILL	330,309

EROSION CONTROL ITEMS	
DITCH LINER	000.0 SQ. YARDS
SOLID SOD	194 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONC. PAVED DITCH	23 CU. YARDS
RIP RAP	154 TONS
GEOTEXTILE FABRIC	203 SQ. YARDS

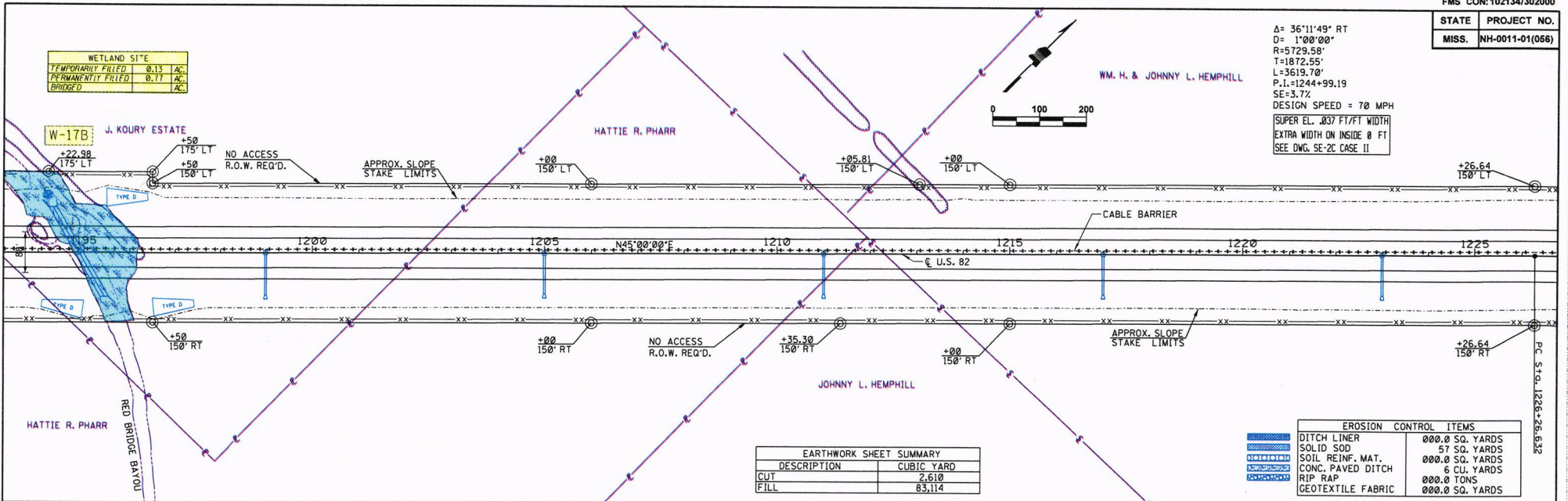


PRELIMINARY	NOT FOR CONSTRUCTION	STATION	DESCRIPTION
		170	1 MI-1B REQ'D, H=3.49'
		160	STA. 1177+66 RT. PAVED FLUME REQ'D.
		150	STA. 1192+00 LT. TYPE D SILT BASIN 20' DIKE, HT=3'
		140	STA. 1194+00 RT. TYPE D SILT BASIN 20' DIKE, HT=3'
		130	STA. 1175+57 LT. PAVED FLUME REQ'D.
		120	STA. 1178+88 LT. PAVED FLUME REQ'D.
		110	STA. 1174+46 RT. PAVED FLUME REQ'D.
		100	STA. 1172+00 LT. TYPE D SILT BASIN 20' DIKE, HT=3'
		90	STA. 1170+00 LT. TYPE D SILT BASIN 20' DIKE, HT=3'
		80	STA. 1169+00 LT. TYPE D SILT BASIN 20' DIKE, HT=3'
		70	STA. 1167+00 LT. & RT. TYPE D SILT BASIN 20' DIKE, HT=3'
		60	STA. 1165+00 240' DBL 54" RCP REQ'D. 2 HW REQ'D. 1 MI-1B REQ'D, H=3.49'

$\Delta = 36^{\circ}11'49''$ RT
 $D = 1^{\circ}00'00''$
 $R = 5729.58'$
 $T = 1872.55'$
 $L = 3619.70'$
 $P.I. = 1244+99.19$
 $SE = 3.7\%$
 DESIGN SPEED = 70 MPH
 SUPER EL. .037 FT/FT WIDTH
 EXTRA WIDTH ON INSIDE 0 FT
 SEE DWG. SE-2C CASE II

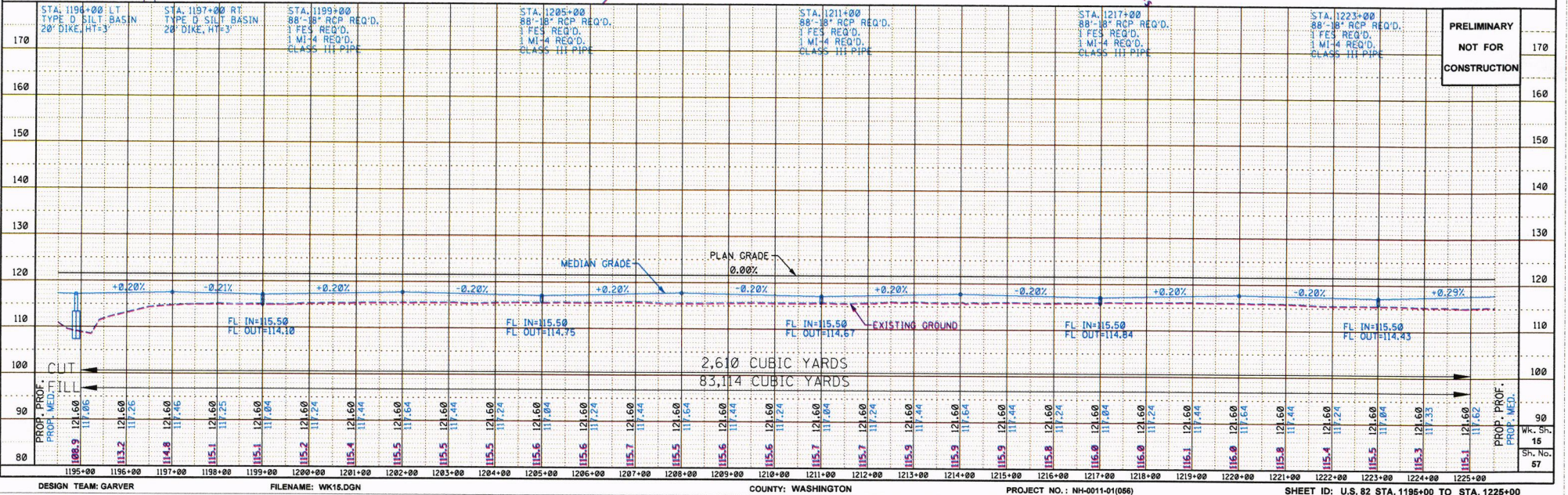
WETLAND SITE	
TEMPORARILY FILLED	0.13 AC.
PERMANENTLY FILLED	0.11 AC.
BRIDGED	AC.

W-17B J. KOURY ESTATE

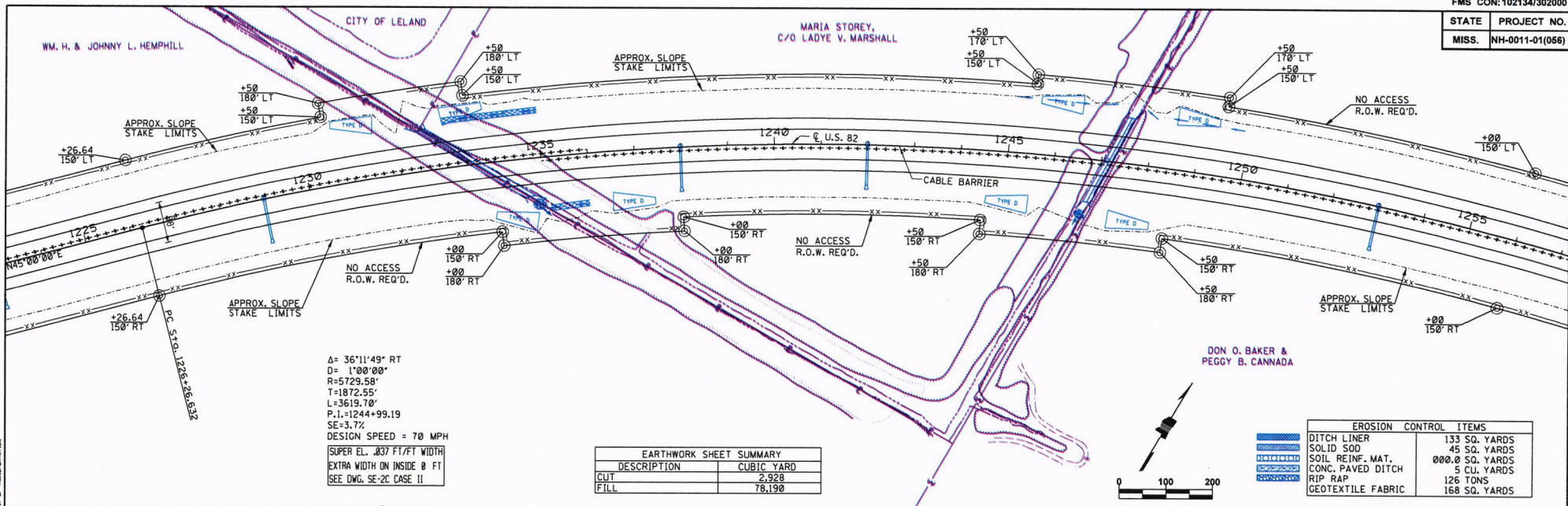


EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	2,610
FILL	83,114

EROSION CONTROL ITEMS	
DITCH LINER	000.0 SQ. YARDS
SOLID SOD	57 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONC. PAVED DITCH	6 CU. YARDS
RIP RAP	000.0 TONS
GEOTEXTILE FABRIC	000.0 SQ. YARDS



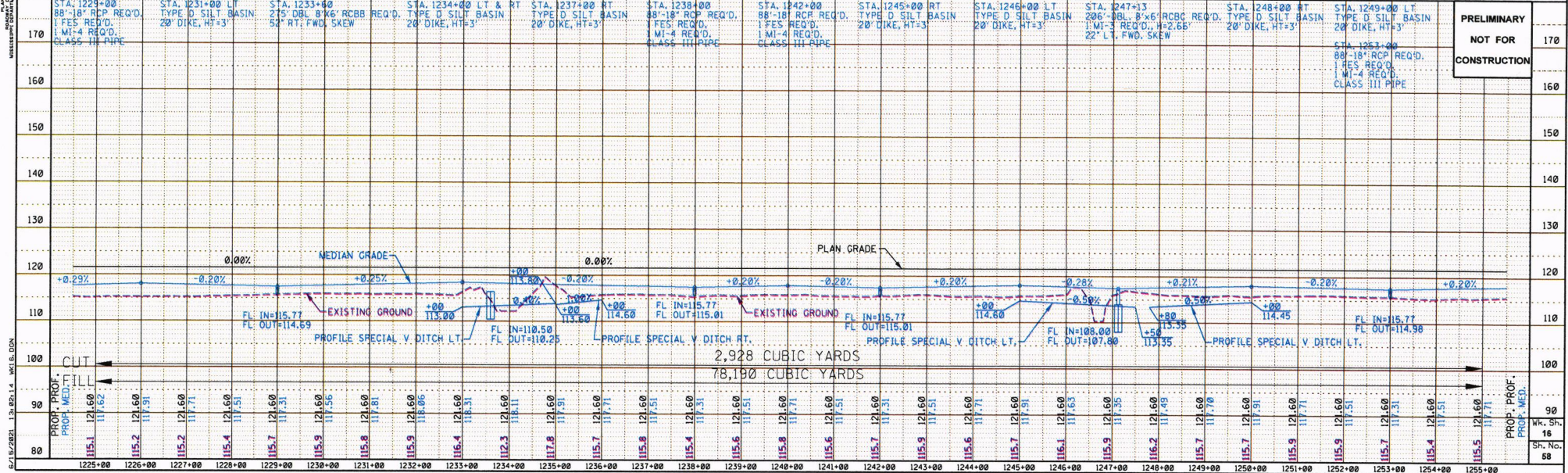
PRELIMINARY
 NOT FOR
 CONSTRUCTION



Δ = 36°11'49" RT
 D = 1°00'00"
 R = 5729.58'
 T = 1872.55'
 L = 3619.70'
 P.L. = 1244+99.19
 SE = 3.7%
 DESIGN SPEED = 70 MPH
 SUPER EL. .037 FT/FT WIDTH
 EXTRA WIDTH ON INSIDE 0 FT
 SEE DWG. SE-2C CASE II

EARTHWORK SHEET SUMMARY		
DESCRIPTION	CUBIC YARD	
CUT	2,928	
FILL	78,190	

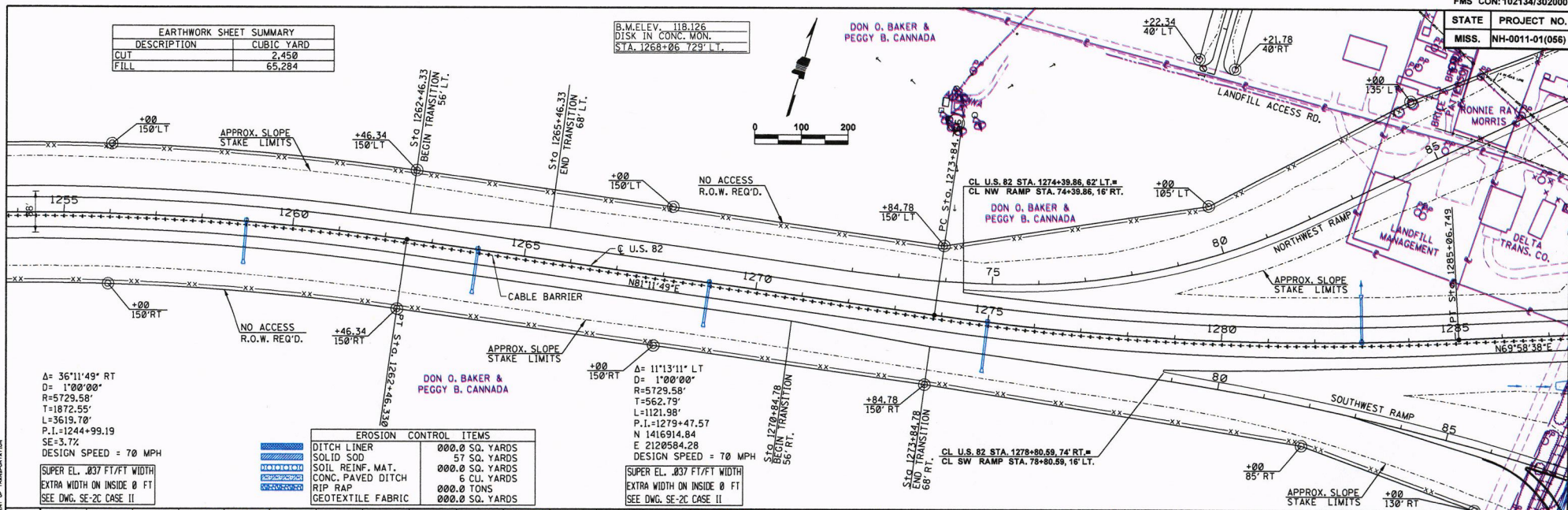
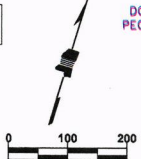
EROSION CONTROL ITEMS		
DITCH LINER	133 SQ. YARDS	
SOLID SOD	45 SQ. YARDS	
SOIL REINF. MAT.	000.0 SQ. YARDS	
CONC. PAVED DITCH	5 CU. YARDS	
RIP RAP	126 TONS	
GEOTEXTILE FABRIC	168 SQ. YARDS	



PRELIMINARY
 NOT FOR CONSTRUCTION
 WK. SH. 16
 SH. NO. 58

EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	2,450
FILL	65,284

B.M. ELEV. 118.126
DISK IN CONC. MON.
STA. 1268+06.729' LT.



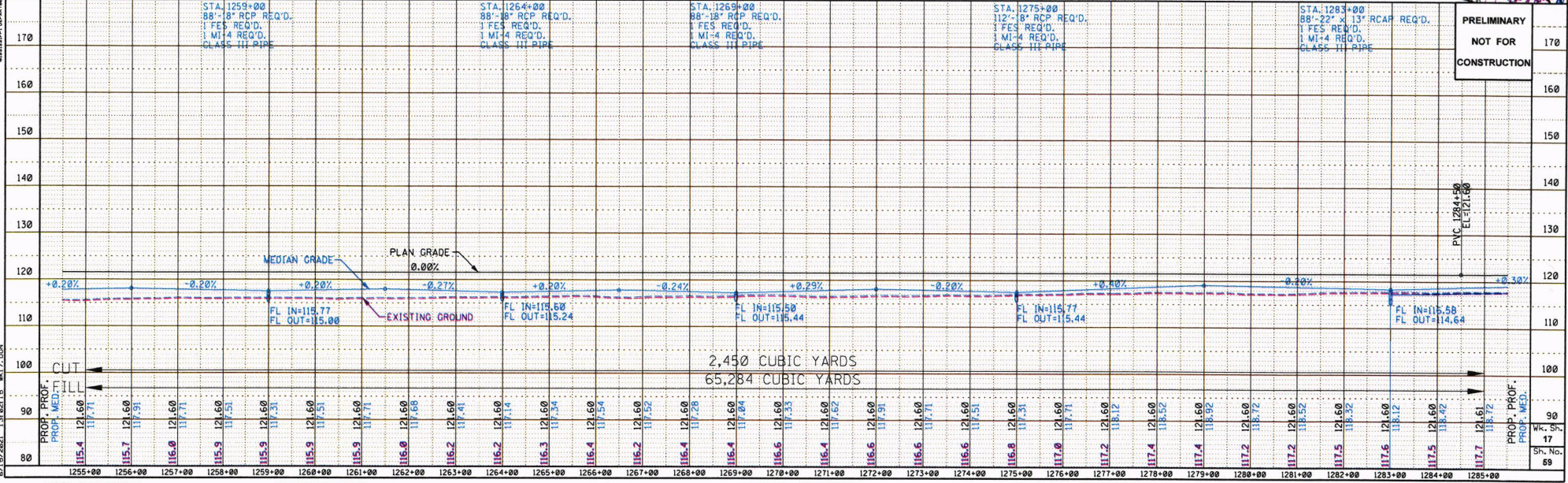
Δ = 36°11'49" RT
D = 1°00'00"
R = 5729.58'
T = 1872.55'
L = 3619.70'
P.I. = 1244+99.19
SE = 3.72
DESIGN SPEED = 70 MPH

SUPER EL. .037 FT/FT WIDTH
EXTRA WIDTH ON INSIDE 0 FT
SEE DWG. SE-2C CASE II

EROSION CONTROL ITEMS	
	DITCH LINER 000.0 SQ. YARDS
	SOLID SOD 57 SQ. YARDS
	SOIL REINF. MAT. 000.0 SQ. YARDS
	CONC. PAVED DITCH 6 CUL. YARDS
	RIP RAP 000.0 TONS
	GEOTEXTILE FABRIC 000.0 SQ. YARDS

Δ = 11°13'11" LT
D = 1°00'00"
R = 5729.58'
T = 562.79'
L = 1121.98'
P.I. = 1279+47.57
N 1416914.84
E 2120584.28
DESIGN SPEED = 70 MPH

SUPER EL. .037 FT/FT WIDTH
EXTRA WIDTH ON INSIDE 0 FT
SEE DWG. SE-2C CASE II

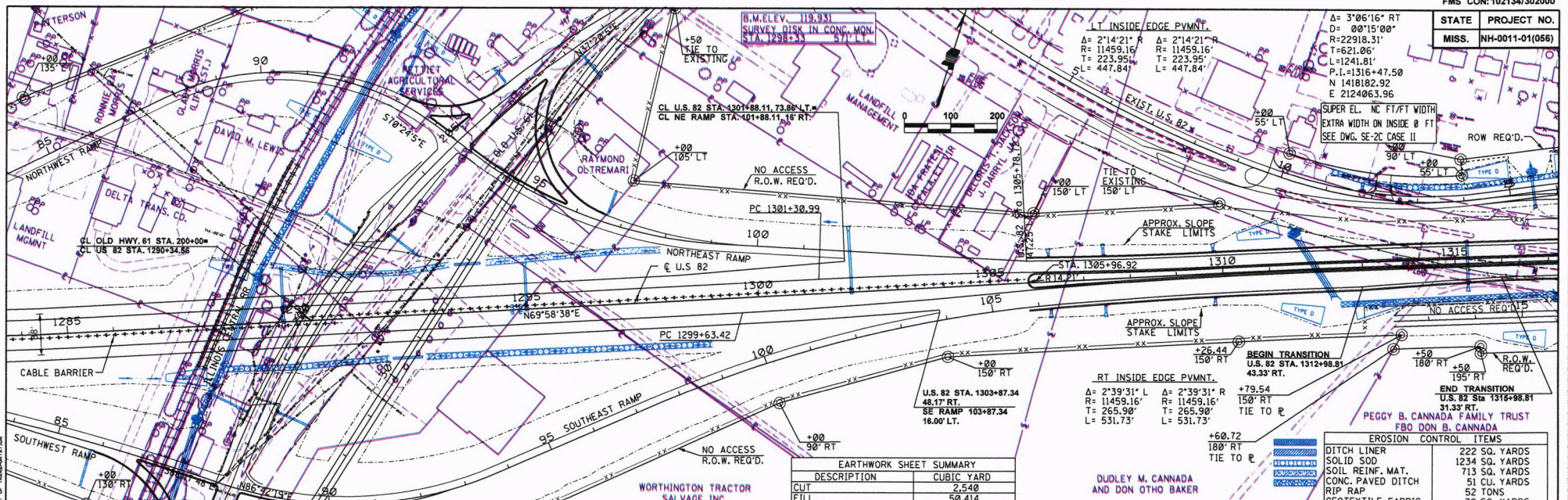


2,450 CUBIC YARDS
65,284 CUBIC YARDS

PRELIMINARY
NOT FOR
CONSTRUCTION

Mk. Sh. 17
Sh. No. 59

STATE	PROJECT NO.
MISS.	NH-0011-01(066)

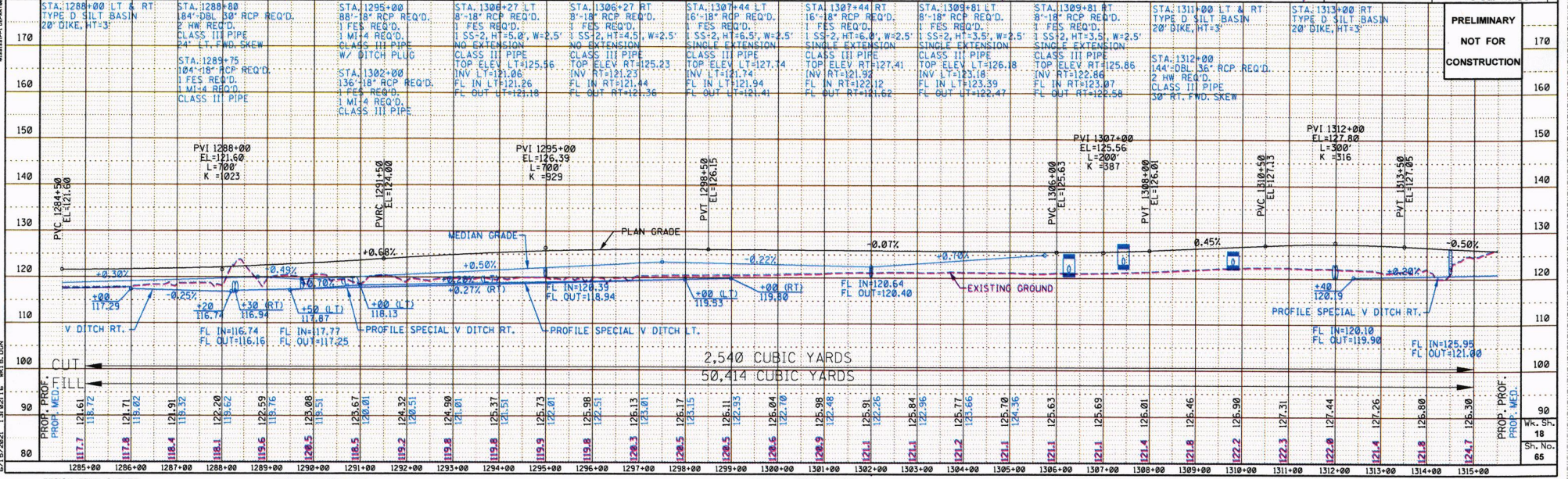


WORTHINGTON TRACTOR SALVAGE INC.

EARTHWORK SHEET SUMMARY		
DESCRIPTION	CUBIC YARD	
CUT	2,540	
FILL	50,414	

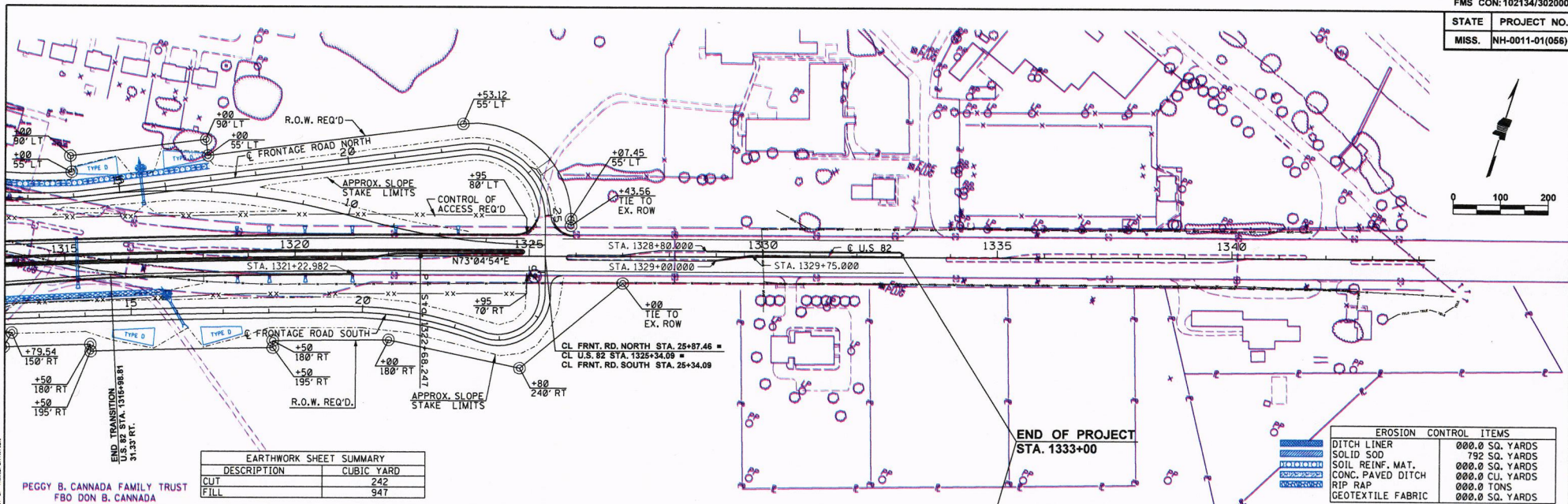
DUDLEY M. CANNADA AND DON OTHO BAKER

EROSION CONTROL ITEMS	
DITCH LINER	222 SQ. YARDS
SOLID SOO	1234 SQ. YARDS
SOIL REINF. MAT.	713 SQ. YARDS
CONC. PAVED DITCH	51 CU. YARDS
RIP RAP	52 TONS
GEOTEXTILE FABRIC	70 SQ. YARDS



2,540 CUBIC YARDS
50,414 CUBIC YARDS

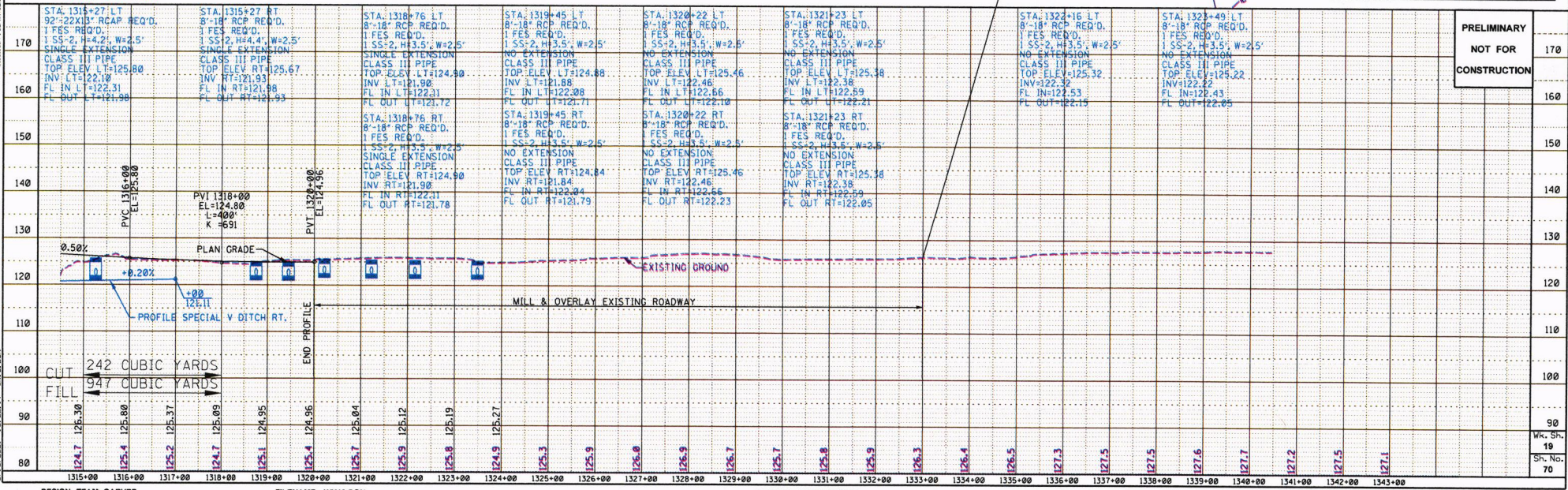
PRELIMINARY	170
NOT FOR CONSTRUCTION	160



EARTHWORK SHEET SUMMARY	
DESCRIPTION	CUBIC YARD
CUT	242
FILL	947

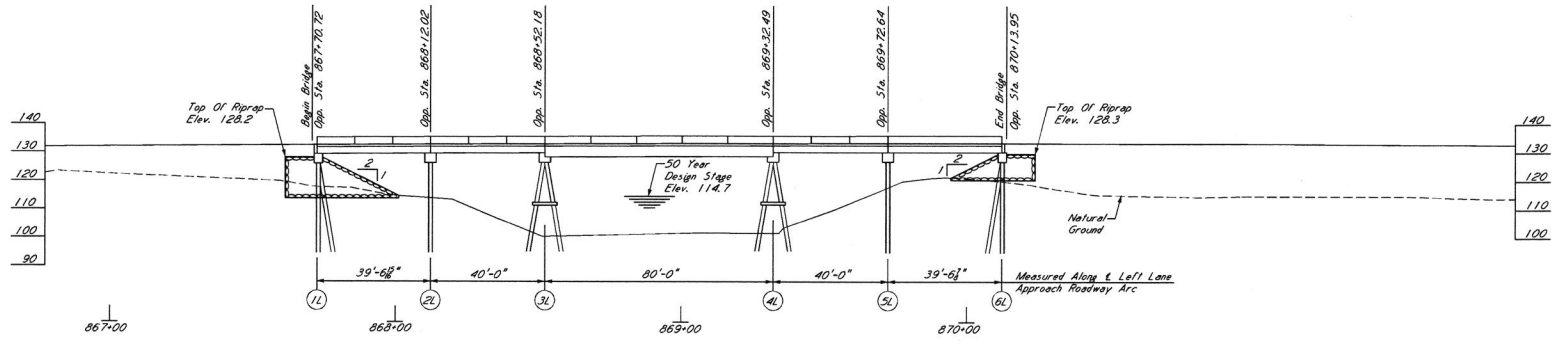
EROSION CONTROL ITEMS	
DITCH LINER	000.0 SQ. YARDS
SOLID SOD	792 SQ. YARDS
SOIL REINF. MAT.	000.0 SQ. YARDS
CONC. PAVED DITCH	000.0 CU. YARDS
RIP RAP	000.0 TONS
GEOTEXTILE FABRIC	000.0 SQ. YARDS

PEGGY B. CANNADA FAMILY TRUST
FBO DON B. CANNADA



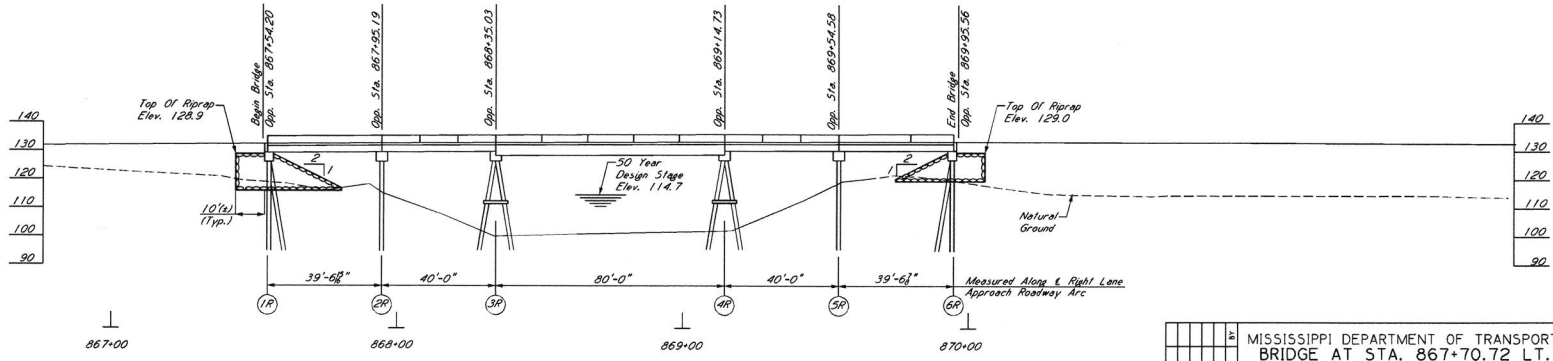
242 CUBIC YARDS
947 CUBIC YARDS

PRELIMINARY
NOT FOR
CONSTRUCTION



ELEVATION WITH PROFILE ALONG & LEFT LANE
Scale: 1" = 20'-0"

NOTE:
Geotextile fabric is required under all riprap.
All riprap and geotextile fabric are included in the bridge quantities.



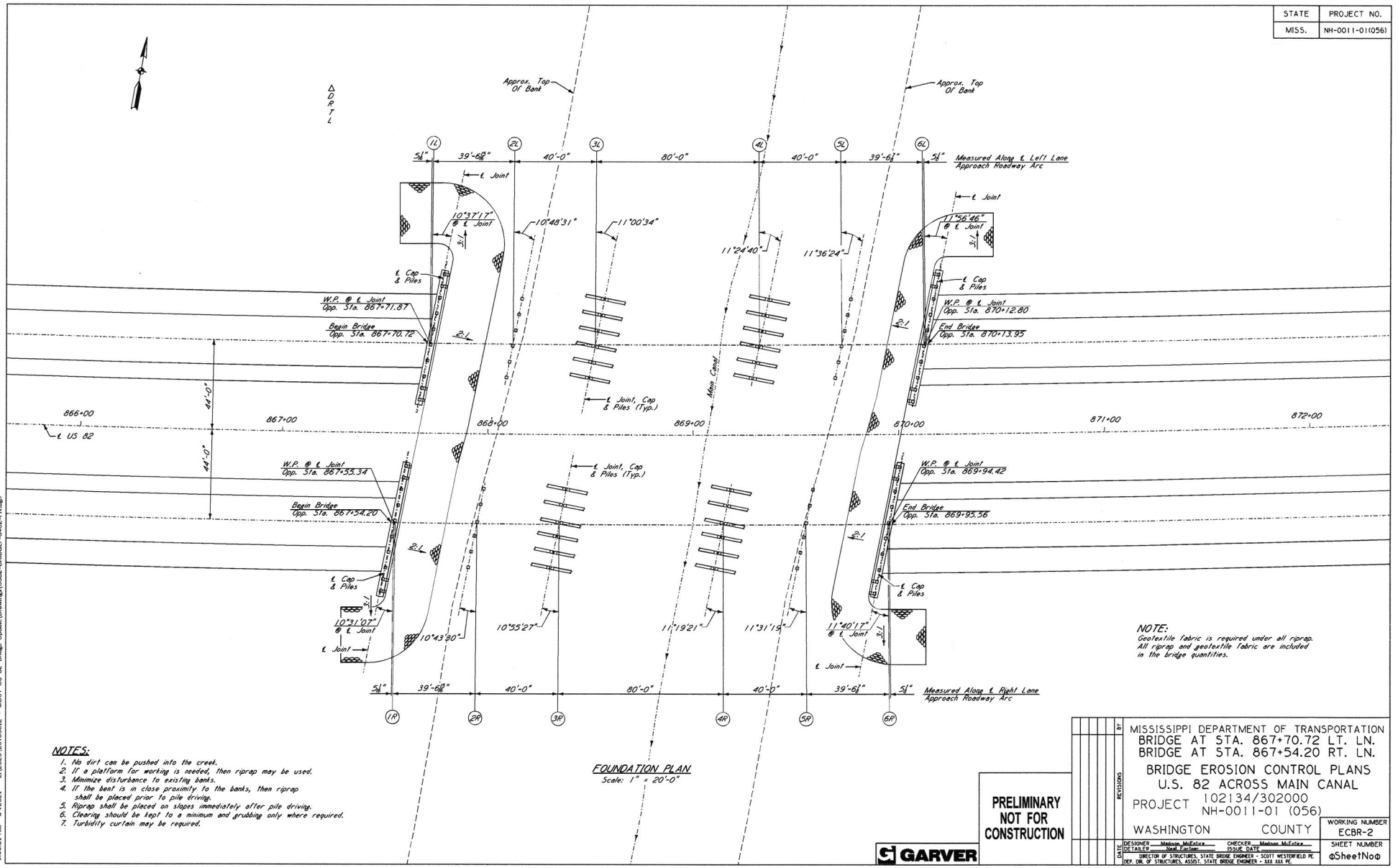
ELEVATION WITH PROFILE ALONG & RIGHT LANE
Scale: 1" = 20'-0"

- NOTES:**
- No dirt can be pushed into the creek.
 - If a platform for working is needed, then riprap may be used.
 - Minimize disturbance to existing banks.
 - If the best is in close proximity to the banks, then riprap shall be placed prior to pile driving.
 - Riprap shall be placed on slopes immediately after pile driving.
 - Clearing should be kept to a minimum and grubbing only where required.
 - Turbidity curtain may be required.

**PRELIMINARY
NOT FOR
CONSTRUCTION**



BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
DATE	BRIDGE AT STA. 867+70.72 LT. LN.
REVISIONS	BRIDGE AT STA. 867+54.20 RT. LN.
	BRIDGE EROSION CONTROL PLANS
	U.S. 82 ACROSS MAIN CANAL
	PROJECT 102134/302000
	NH-0011-01 (056)
	WASHINGTON COUNTY
	WORKING NUMBER ECBR-1
DESIGNED	Michael Medina
CHECKED	James Davenport
DATE	ISSUE DATE
DETAILS	Scott Feltner
DATE	ISSUE DATE
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD PE	
REP. OR. OF STRUCTURES ASSOC. STATE BRIDGE ENGINEER - 511 313 PE	
	SHEET NUMBER @SheetNoop



NOTES:

1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used.
3. Minimize disturbance to existing banks.
4. If the bent is in close proximity to the banks, then riprap shall be placed prior to pile driving.
5. Riprap shall be placed on slopes immediately after pile driving.
6. Clearing should be kept to a minimum and grubbing only where required.
7. Turbidity curtain may be required.

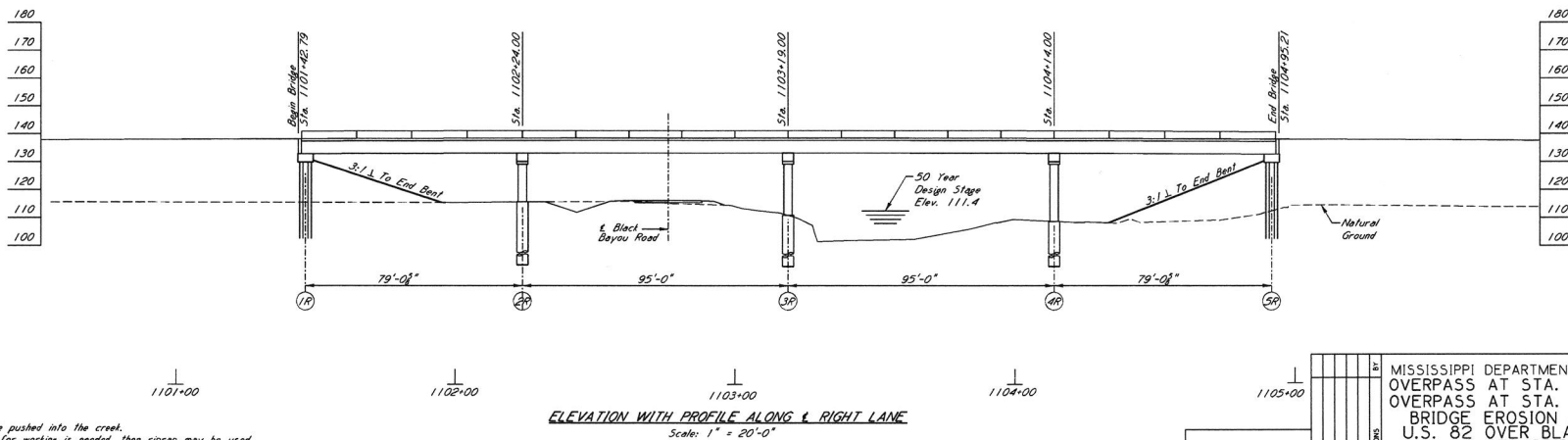
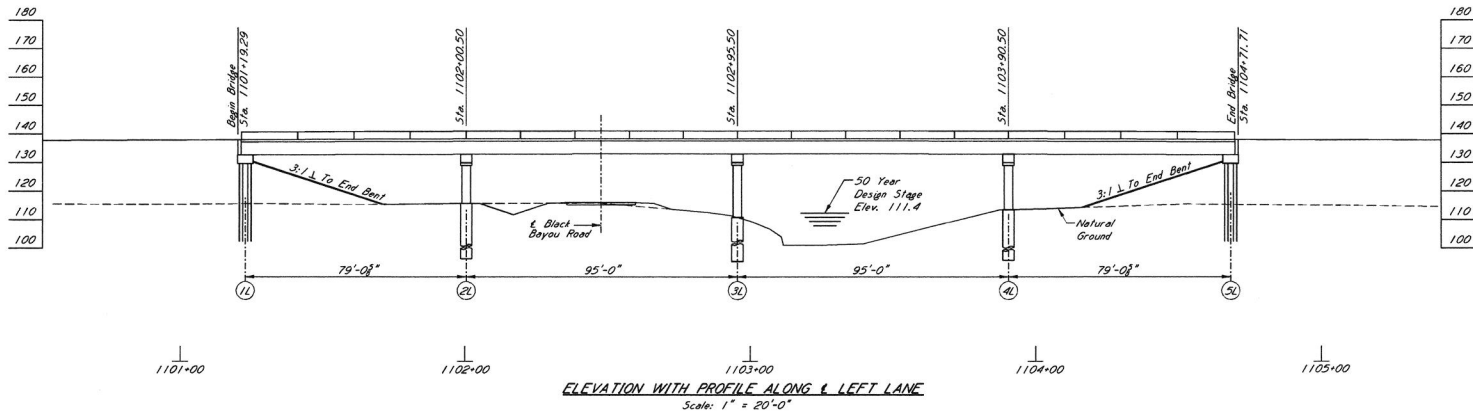
NOTE:
Geotextile fabric is required under all riprap.
All riprap and geotextile fabric are included in the bridge quantities.

**PRELIMINARY
NOT FOR
CONSTRUCTION**



REVISIONS	NO.	BY	DATE	DESCRIPTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION BRIDGE AT STA. 867+70.72 LT. LN. BRIDGE AT STA. 867+54.20 RT. LN. BRIDGE EROSION CONTROL PLANS U.S. 82 ACROSS MAIN CANAL PROJECT 102134/302000 NH-0011-01 (056)				
WASHINGTON COUNTY			WORKING NUMBER	ECBR-2
DESIGNER	MANAGER	CHECKER	ISSUE DATE	SHEET NUMBER
DETAILER				
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD PE REP. DIR. OF STRUCTURES, ASS'T. STATE BRIDGE ENGINEER - LEE ALL				
				SheetNo0

9:46:21 AM 6/26/21 L:\2020\201705012 - MOST US 82 Bridge Update\Drawings\US82-867072-867054-RT.dwg



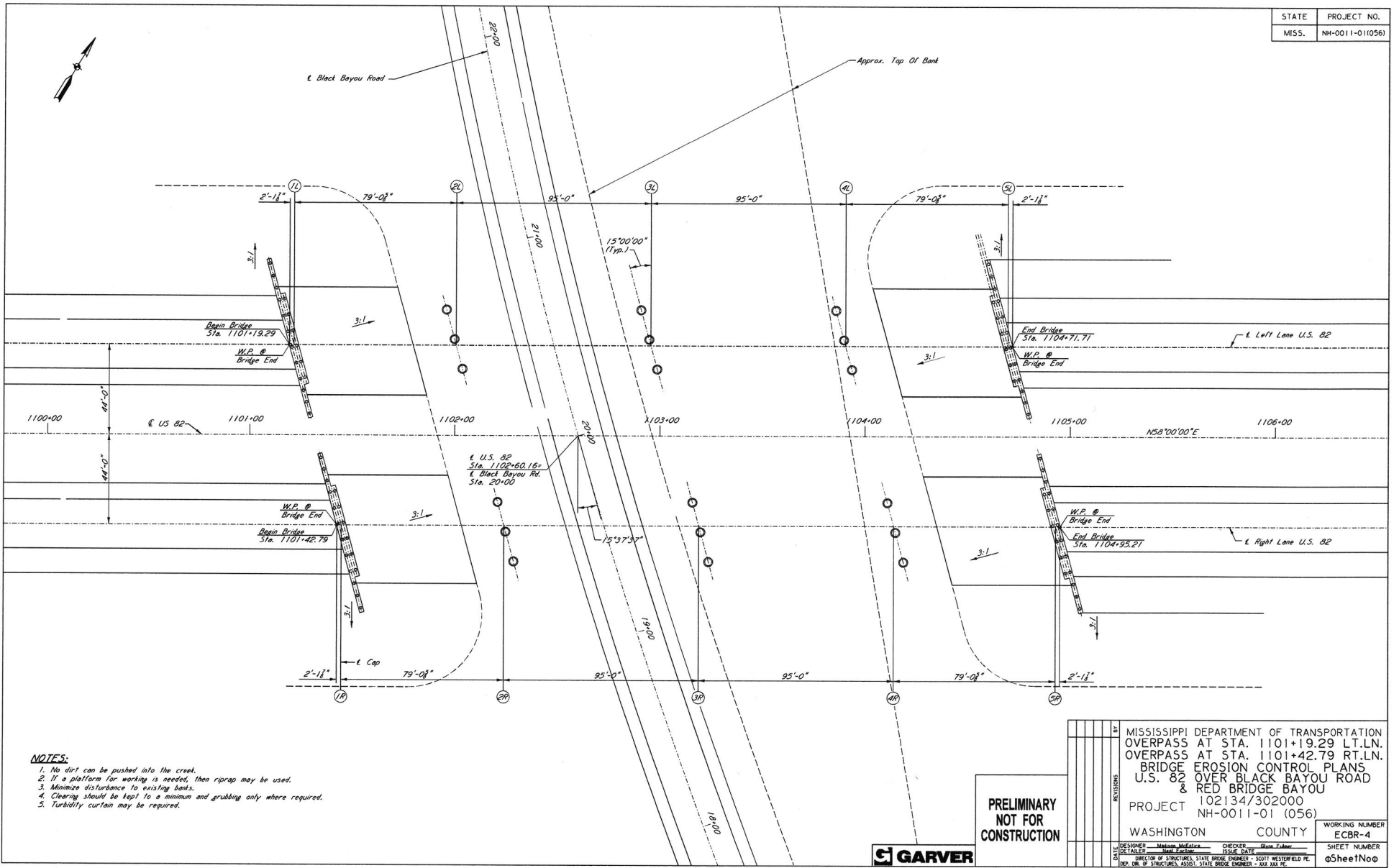
- NOTES:**
1. No dirt can be pushed into the creek.
 2. If a platform for working is needed, then riprap may be used.
 3. Minimize disturbance to existing banks.
 4. Clearing should be kept to a minimum and grubbing only where required.
 5. Turbidity curtain may be required.

**PRELIMINARY
NOT FOR
CONSTRUCTION**



REVISIONS	MISSISSIPPI DEPARTMENT OF TRANSPORTATION OVERPASS AT STA. 1101+19.29 LT.LN. OVERPASS AT STA. 1101+42.79 RT.LN. BRIDGE EROSION CONTROL PLANS U.S. 82 OVER BLACK BAYOU ROAD & RED BRIDGE BAYOU	WORKING NUMBER ECBR-3
	PROJECT 102134/302000 NH-0011-01 (056) WASHINGTON COUNTY	SHEET NUMBER aSheetNo0
DATE	DESIGNED: <u>Mauro McFarlane</u> CHECKER: <u>John Buhler</u>	
	DRAWN: <u>Neal Estep</u> ISSUE DATE	
	DIRECTOR OF STRUCTURES, STATE HIGHWAY ENGINEER - SOUTH WASHINGTON FIELD PE DEP. DIR. OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - KYLE RAY PE	

STATE	PROJECT NO.
MISS.	NH-0011-010561



NOTES:

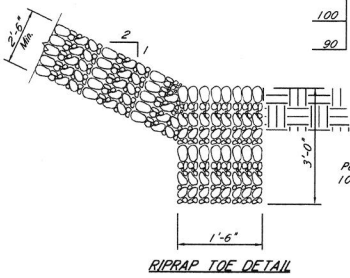
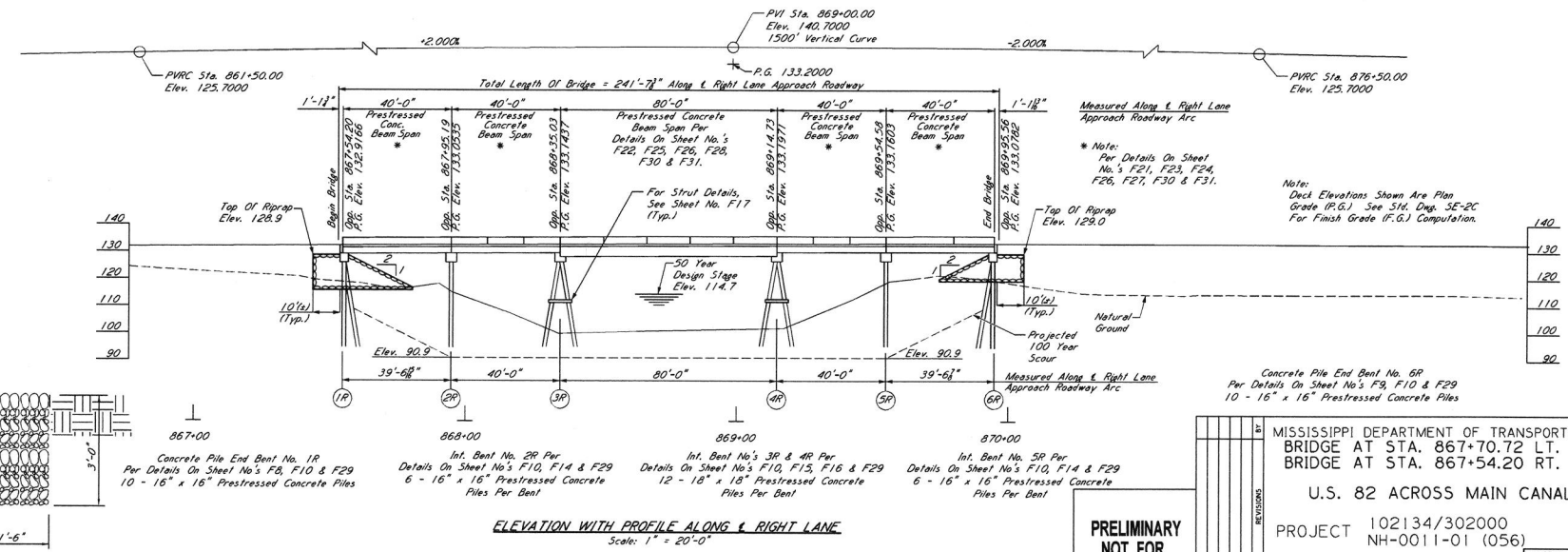
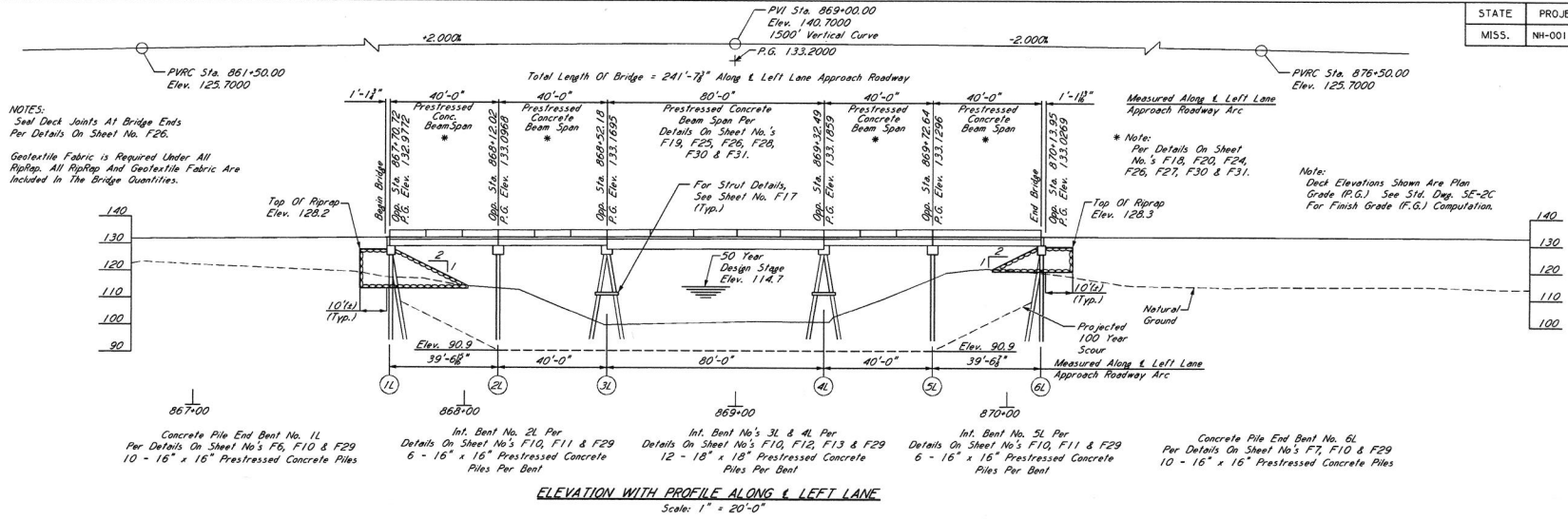
1. No dirt can be pushed into the creek.
2. If a platform for working is needed, then riprap may be used.
3. Minimize disturbance to existing banks.
4. Clearing should be kept to a minimum and grubbing only where required.
5. Turbidity curtain may be required.

**PRELIMINARY
NOT FOR
CONSTRUCTION**



REVISIONS	MISSISSIPPI DEPARTMENT OF TRANSPORTATION OVERPASS AT STA. 1101+19.29 LT.LN. OVERPASS AT STA. 1101+42.79 RT.LN. BRIDGE EROSION CONTROL PLANS U.S. 82 OVER BLACK BAYOU ROAD & RED BRIDGE BAYOU		
	PROJECT 102134/302000 NH-0011-01 (056)		
DATE	DESIGNER	CHECKER	ISSUE DATE
	Matthew McCallister	Glenn Fisher	
	Mark Justice		
	DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD PE DEP. DIR. OF STRUCTURES, ASSOCI. STATE BRIDGE ENGINEER - SUE JAY PE		
	WASHINGTON COUNTY	WORKING NUMBER ECBR-4	SHEET NUMBER 05SheetNoop

9:56:22 AM 6/20/21 L:\2020\20105012 - MDOT US 82 Bridge Update\Drawings\US82-BRIDGE-5402-FN.dwg



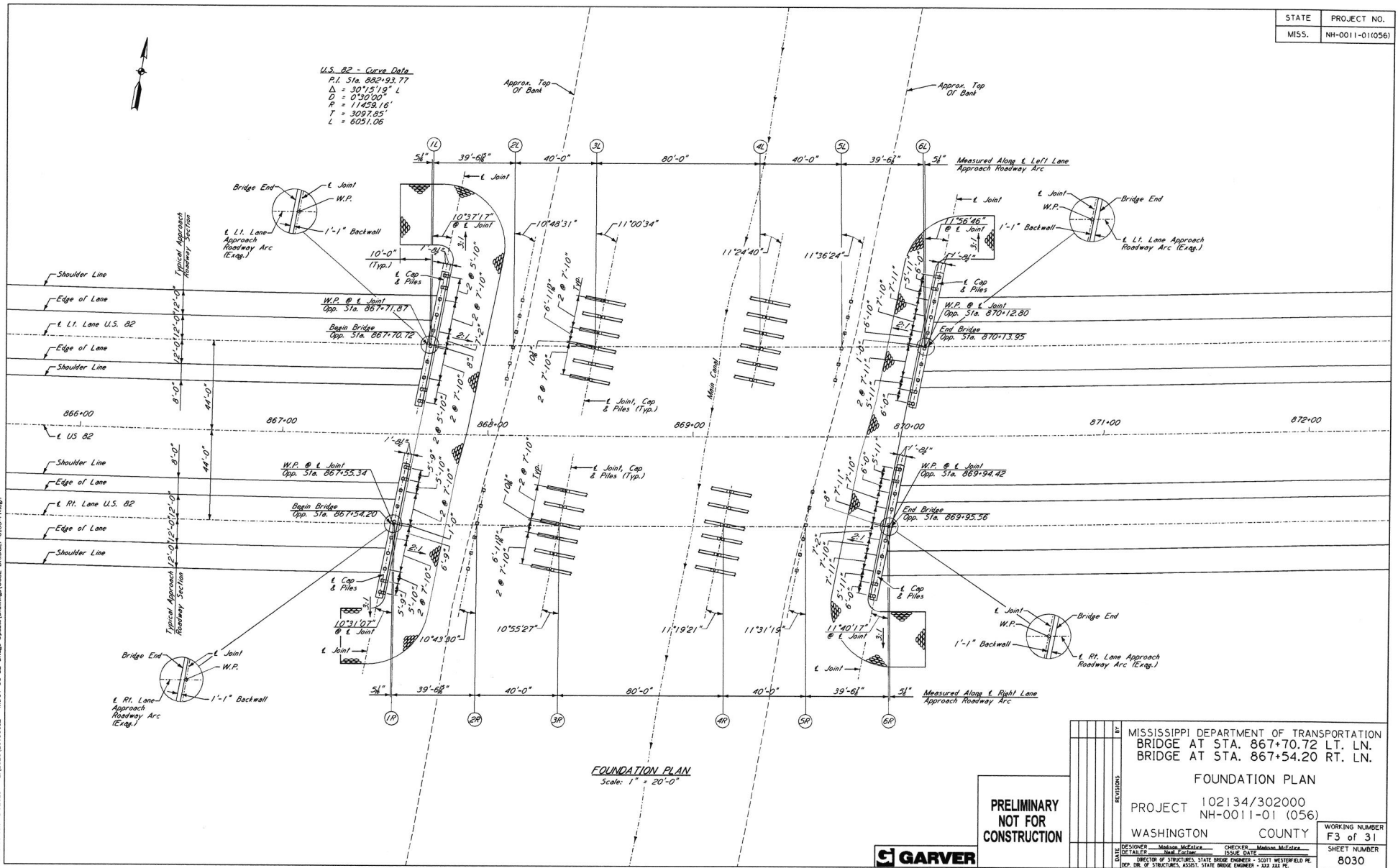
**PRELIMINARY
NOT FOR
CONSTRUCTION**



MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
BRIDGE AT STA. 867+70.72 LT. LN.			
BRIDGE AT STA. 867+54.20 RT. LN.			
U.S. 82 ACROSS MAIN CANAL			
PROJECT 102134/302000		WORKING NUMBER F2 of 31	
NH-0011-01 (056)		SHEET NUMBER 8029	
WASHINGTON COUNTY			
DESIGNER: <u>Maxim Malczuk</u>	CHECKER: <u>James Davidson</u>		
DRAWN BY: <u>Scott Westfield</u>	ISSUE DATE:		
REP. OR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTFIELD PE			

9/4/20 AM 6/2/2021 L:\2020\2015\0212 - MDOT US 82 Bridge Update\Drawings\1082-8R\056-F2-102-L0.dgn

U.S. 82 - Curve Data
 P.I. Sta. 862+93.77
 $\Delta = 30^\circ 15' 19''$ L
 $D = 0.39005'$
 $R = 11459.16'$
 $T = 3097.85'$
 $L = 6051.06'$

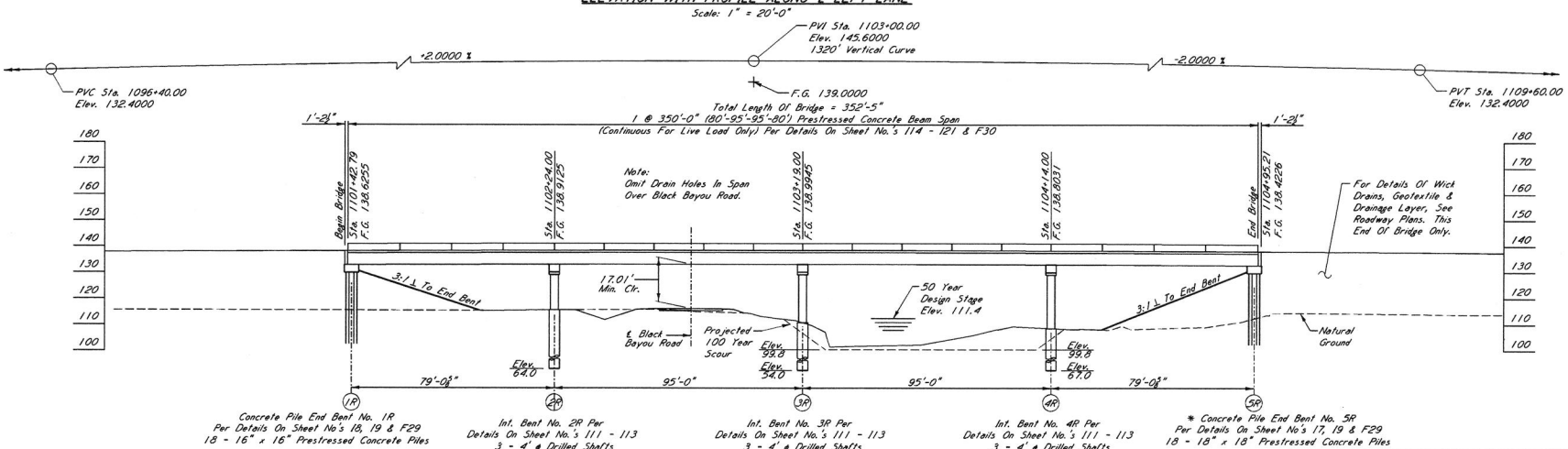
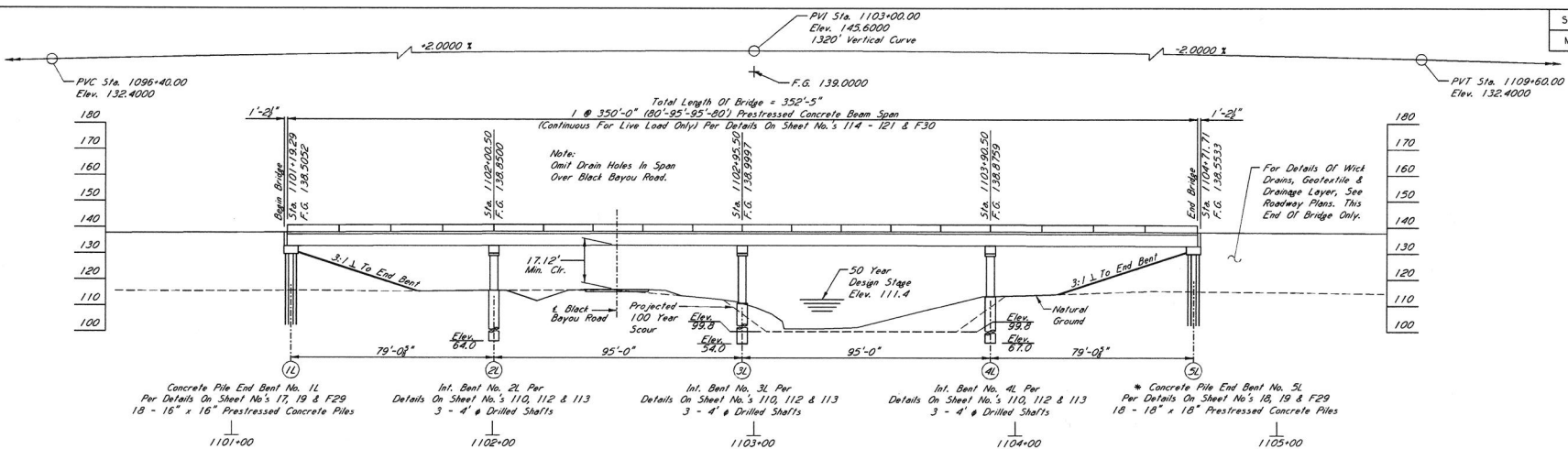


FOUNDATION PLAN
 Scale: 1" = 20'-0"

**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

REVISIONS	BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	DATE	BRIDGE AT STA. 867+70.72 LT. LN.	
		BRIDGE AT STA. 867+54.20 RT. LN.	
		FOUNDATION PLAN	
		PROJECT	102134/302000
			NH-0011-01 (056)
		WASHINGTON COUNTY	ISSUE DATE
			WORKING NUMBER
			F3 of 31
		DESIGNER: Madison McEldra	CHECKER: Madison McEldra
		DRAWN: Scott Westfield	ISSUE DATE
		DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTFIELD PE	
		REP. DIR. OF STRUCTURES, ASSOCI. STATE BRIDGE ENGINEER - JIM JAY PE	
			SHEET NUMBER
			8030

9/4/2020 AM 6:42:21 L:\2020\20705012 - MOD1 US 82 Bridge Update\Drawings\US82-BRIDGE-S103-FN.dwg



NOTES:
Steel Deck Joints At Bridge Ends Per Details On Sheet No. 112.

* **NOTE:**
Piling In End Bents 5L and 5R Shall Not Be Driven Until 180 Days After Bridge Approach Embankment Has Been Constructed To Grade Unless Approved By The Engineer.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

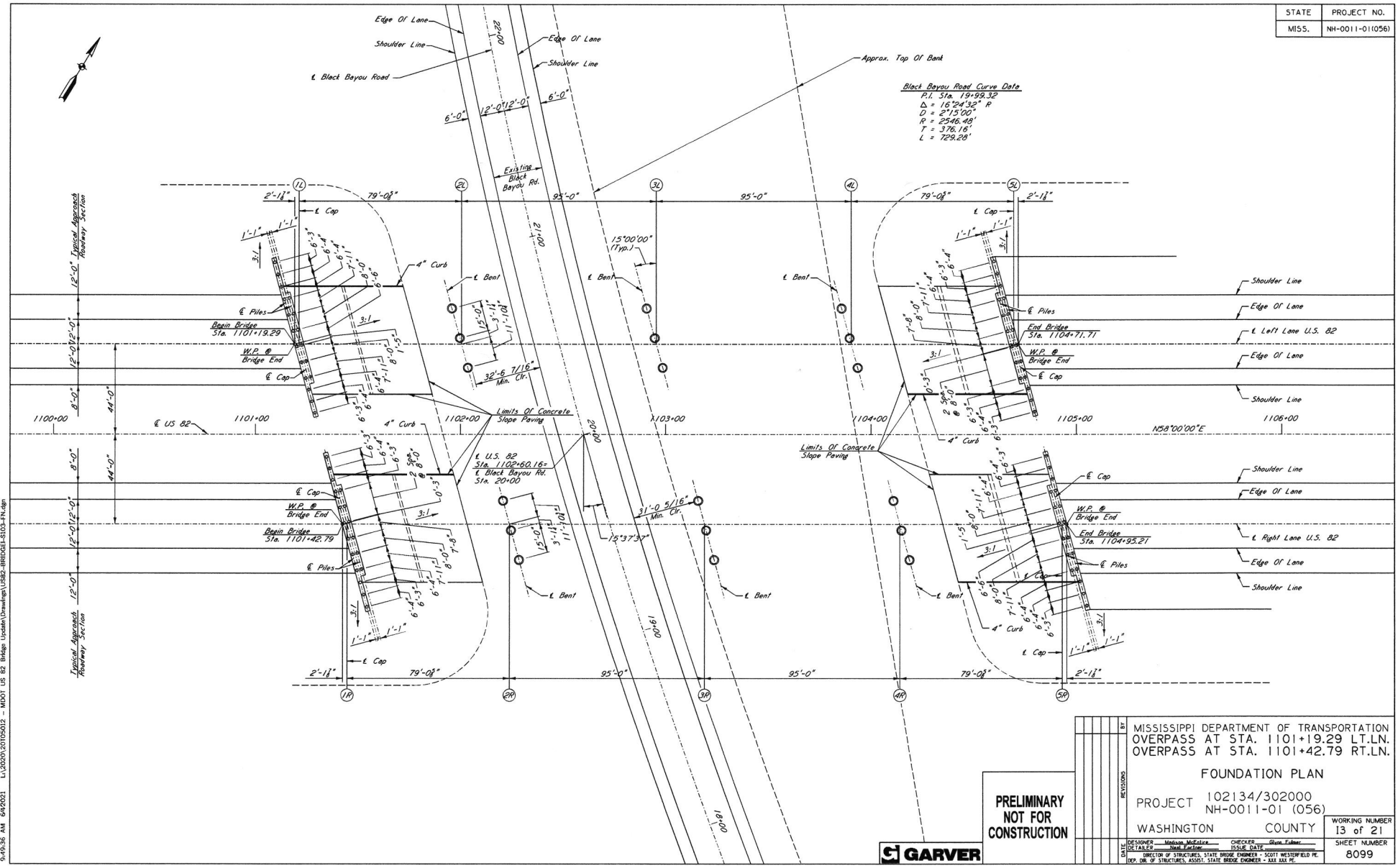


MISSISSIPPI DEPARTMENT OF TRANSPORTATION OVERPASS AT STA. 1101+19.29 LT.LN. OVERPASS AT STA. 1101+42.79 RT.LN. US 82 OVER BLACK BAYOU ROAD & RED BRIDGE BAYOU	
PROJECT 102134/302000 NH-0011-01 (056)	WORKING NUMBER 12 of 21
WASHINGTON COUNTY	SHEET NUMBER 8098
DESIGNED: <u>Mark M. Galt</u> CHECKED: <u>John Rudolph</u> DATE: <u> </u>	ISSUE DATE: <u> </u>
DIRECTOR OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD PE REP. DIR. OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - JAY JAY PE	

9:49:36 AM 6/4/2021 L:\2020\20105612 - MDT US 82 Bridge Update\Drawings\US82-BRIDGES-S102-LO.dgn

STATE	PROJECT NO.
MISS.	NH-0011-01(056)

Black Bayou Road Curve Data
 P.I. Sta. 10939.32
 $\Delta = 182^{\circ}43'0"$
 $D = 2715.00'$
 $R = 2546.48'$
 $T = 376.16'$
 $L = 729.28'$



**PRELIMINARY
NOT FOR
CONSTRUCTION**



DATE	DESIGNED	Andrew McEwen	CHECKED	Glenn Eshen
	DETAILS	Sam Eshen	ISSUE DATE	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION OVERPASS AT STA. 1101+19.29 LT.LN. OVERPASS AT STA. 1101+42.79 RT.LN. FOUNDATION PLAN PROJECT 102134/302000 NH-0011-01 (056) WASHINGTON COUNTY DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - SCOTT WESTERFIELD PE DEP. DIR. OF STRUCTURES, ASSOCI. STATE BRIDGE ENGINEER - KYLE BAX PE				
WORKING NUMBER				SHEET NUMBER
13 of 21				8099

9:49:36 AM 6/4/2021 L:\2020\20205012 - MDOT US 82 Bridge Update\Drawings\US82-BRIDGE-S103-FN.dgn

404 Permit Conditions &
401 Water Quality Certification

**CERTIFICATION OF COMPLIANCE
WITH DEPARTMENT OF THE ARMY PERMIT**

General Permit Number: RGP 46
Identification Number: MVK-2021-702
Name of Permittee: MDOT
Issued Date: 08/25/2021
Evaluator Name: Mr. Anthony Lobred
Expiration Date: 10/02/2024

Upon completion of the activity authorized by this permit, sign this certification and return it to the following address:

USACE, Vicksburg District
ATTN: Regulatory Division
4155 Clay Street
Vicksburg, Mississippi 39183-3435

Please note that your permitted activity is subject to a compliance inspection by an Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit modification, suspension, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit including any required mitigation.

Date Work was Completed: _____

Signature of Permittee

Date Signed



**US Army Corps
of Engineers.**

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

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 13th 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



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.

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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
 - 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.

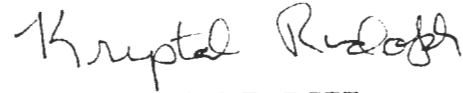
- k. Disturbance to riparian vegetation would be kept to a minimum during construction.
- l. No activity shall be authorized under this General Permit which would likely directly or indirectly jeopardize the continued existence of a Federally-listed threatened or endangered species or a species proposed 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