



**US Army Corps  
of Engineers**

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

# Public Notice

<b>APPLICATION NO.:</b>	<u>MVK-2012-197</u>
<b>EVALUATOR:</b>	<u>Ms. Tarmiko Graham</u>
<b>PHONE NO.:</b>	<u>(601) 631-5540</u>
<b>E-MAIL:</b>	<u>Tarmiko.V.Graham@usace.army.mil</u>
<b>DATE:</b>	<u>March 20, 2024</u>
<b>EXPIRATION DATE:</b>	<u>April 20, 2024</u>

Interested parties are hereby notified that the U.S. Army Corps of Engineers, Vicksburg District, is considering a proposal to establish a mitigation bank in Ashley County, Arkansas. A prospectus describing the proposed bank has been received from Matrix New World Engineering. The Addendum Mitigation Bank site is located in Section 22, Township 17 South, Range 5 West, Ashley County, Arkansas.

**Description:** This wetland/stream addendum mitigation bank is being proposed by the bank sponsor as a means to meet the requirements for compensatory mitigation for future, and as yet unknown, wetland and stream functional losses that would be permitted by the Corps under the authority of Section 404 of the Clean Water Act.

The Bank Sponsor proposes to develop an addendum mitigation bank that would encompass 56.33 acres of land in which restoration, enhancement, and preservation activities are proposed. The Sponsor of the Pelican Foster Mitigation Bank Addendum (PFMBA) is Pelican Mitigation, LLC (Pelican). The goal of Pelican would be to conduct bottomland hardwood wetland, instream, riparian buffer, upland buffer, and upland stream buffer restoration, enhancement, and preservation activities on the PFMBA (Tract or Site). The restoration and enhancement of wetland and streams would increase wetland function, provide species diversity, and increase the width of a wildlife corridor along the Bayou Bartholomew and its major tributaries.

**Baseline Conditions / Current Land Use / Proposed Actions:** The 56.33-acre tract of the proposed PFMBA currently contains approximately 2.67 acres of bottomland hardwood wetlands, 1.31 acres of shrub-scrub wetlands, 16.99 acres of herbaceous wetlands, 32.02 acres of uplands buffer activities adjacent to wetland areas, and 1.46 acres of existing roads (Figures 3). The tract also contains approximately 1.88 acres of intermittent stream (Unnamed Tributary to Overflow Creek). The existing and historic land use is primarily cattle grazing and hay production.

Dominant habitat types associated with the jurisdictional wetlands on the tract consists of bottomland hardwood forested wetlands, shrub-scrub wetlands, and herbaceous wetlands. Dominant species identified in these habitats include: common persimmon (*Diospyros virginiana*), honey-locust (*Gleditsia triacanthos*), sweetgum (*Liquidambar styraciflua*), common buttonbush (*Cephalanthus occidentalis*), bog rush (*Juncus marginatus*), dotted smartweed (*Persicaria punctata*), Virginia dayflower (*Commelina virginica*), lamp rush (*Juncus effusus*), cardinal-flower (*Lobelia cardinalis*), golden crown grass (*Paspalum dilatatum*), saw-tooth blackberry (*Rubus argutus*), bushy bluestem (*Andropogon glomeratus*), broom-sedge (*A. virginicus*), and American buckwheat vine (*Brunnchia ovata*).

The property contains the following soil types: Arkabutla silt loam, Calloway silt loam, Grenada silt loam, Hebert silt loam, Perry clay, Portland silty clay, and Rilla silt loam, all of which are listed as hydric soils.

The Sponsor proposes to conduct bottomland hardwood wetland, instream, riparian buffer, upland buffer, and upland stream buffer activities on the PFMBA. Bottomland hardwood wetland activities would consist of 3.57 acres of herbaceous wetland enhancement, 0.01 acre of shrub-scrub wetland enhancement, and 0.01 acre of preservation. Upland buffer activities would consist of 28.60 acres of enhancement (Figure 4). Stream activities would consist of 0.06 acre (538 linear feet) of Priority 1 restoration, 0.03 acre (91 linear feet) of stream wetland complex, and 1.67 acres (2,477 linear feet) of enhancement of an unnamed tributary to Overflow Creek. Riparian buffer activities would consist of 13.36 acres (1,983.56 linear feet) of stream buffer bottomland hardwood enhancement (herbaceous wetlands), 1.30 acres (193.01 linear feet) of stream buffer bottomland hardwood enhancement (shrub-scrub wetlands), and 2.84 acres (421.66 linear feet) of stream buffer bottomland hardwood preservation. Upland buffer activities would consist of 28.60 acres of enhancement. Upland stream buffer activities would consist of 3.42 acres (507.77 linear feet) of enhancement. Remaining acreage associated with the PFMBA, not proposed for rehabilitation, enhancement, and preservation activities includes 1.46 acres of roads.

**Service Area:** This Mitigation Bank will be established to provide mitigation to compensate for impacts to waters of the United States, including wetlands, within the State of Mississippi. This area is demarcated by the United States Geologic Survey as hydrologic unit code 08040204 and 08040205 within the Bayou Bartholomew Basin. Decisions authorizing the use of credits from the Mitigation Bank would be made by the appropriate authority on a case-by-case basis, in accordance with all applicable requirements.

The prospectus, which outlines the conceptual plan for the bank, is available at the following website:

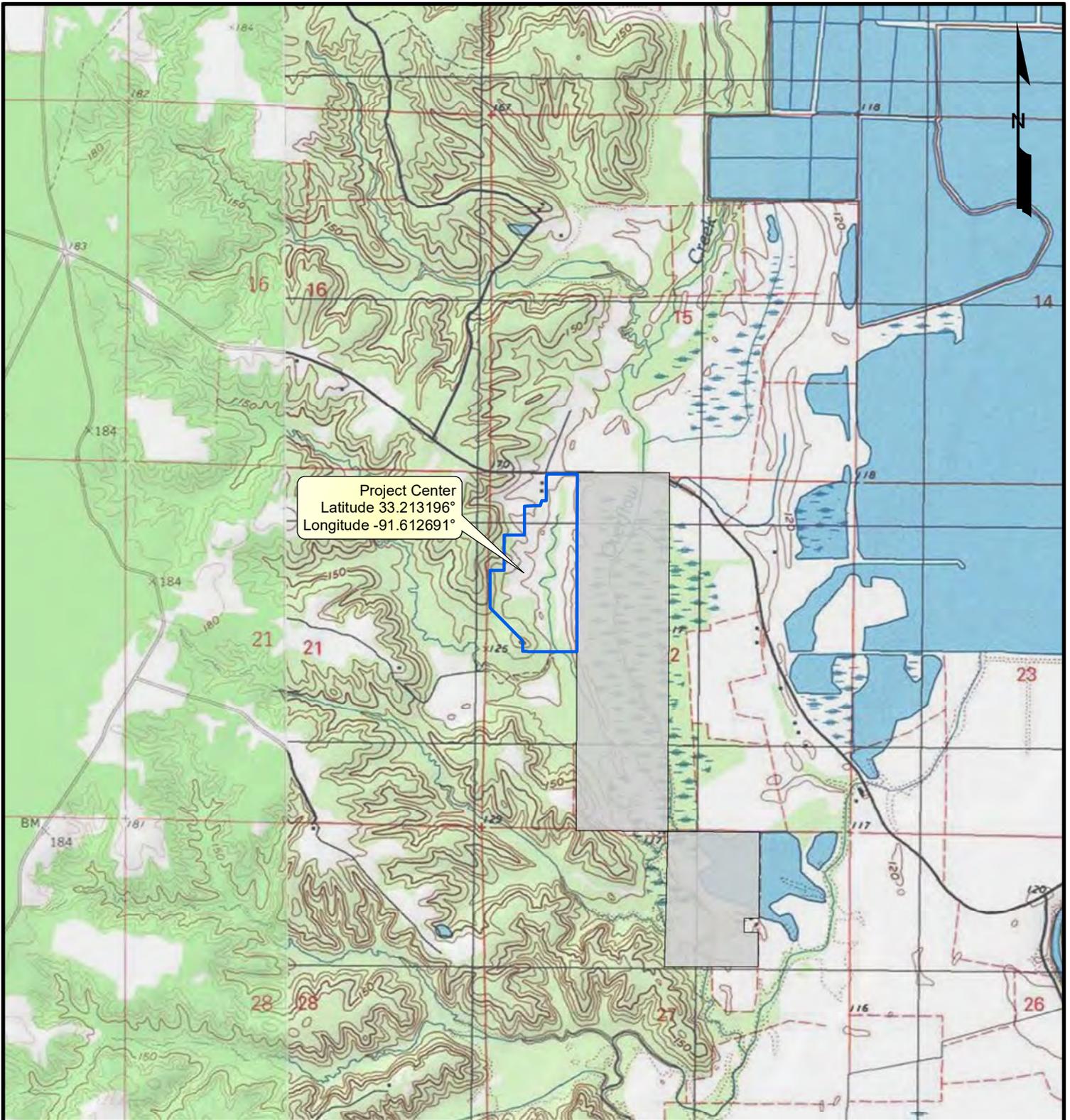
<http://www.mvk.usace.army.mil/offices/od/odf/PubNotice/pnmain.htm>.

Comments on this proposed mitigation bank may be provided to the Corps at the address below. Comments should be received no later than the expiration date of this public notice.

Please provide comments to:

**U.S. Army Corps of Engineers  
Vicksburg District  
Attention: CEMVK-RD  
4155 Clay Street  
Vicksburg, Mississippi 39183-3485**

**Spencer Dixon  
Chief (Acting), Arkansas Branch  
Regulatory Division**



Project Center  
 Latitude 33.213196°  
 Longitude -91.612691°

**Legend**

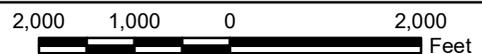
- Pelican Foster Mitigation Bank Addendum (56.33 acres)
- Pelican Foster Mitigation Bank

**Site Location Map**

**Mitigation Bank Addendum**  
 Ashley County, Arkansas

**Pelican Mitigation, LLC**

Pelican Foster Mitigation Bank Addendum



**MATRIX****NEW****WORLD**  
 Engineering Progress

Drawn By	LMM
Approved By	CET
Date	6/25/2020
Drawing No.	19-043-A012

**2**

Figure No.

**Source:** Base map comprised of U.S.G.S. 7.5-minute topographic map(s), "Portland, AR" dated 2002; and "Wilmot NW, AR" dated 1960.

County Road 69



Pelican Foster Mitigation Bank

**Legend**

-  Pelican Foster Mitigation Bank Addendum (56.33 acres)
-  Bottomland Hardwood Wetlands (2.67 acres)
-  Herbaceous Wetlands (16.99 acres)
-  Shrub-Scrub Wetlands (1.31 acres)
-  Uplands (32.02 acres)
-  Unnamed Tributary to Overflow Creek (1.88 acres)
-  Existing Roads (1.46 acres)

**Pre-Restoration Site Plan**

**Mitigation Bank Addendum**  
Ashley County, Arkansas

**Pelican Mitigation, LLC**

Pelican Foster Mitigation Bank Addendum



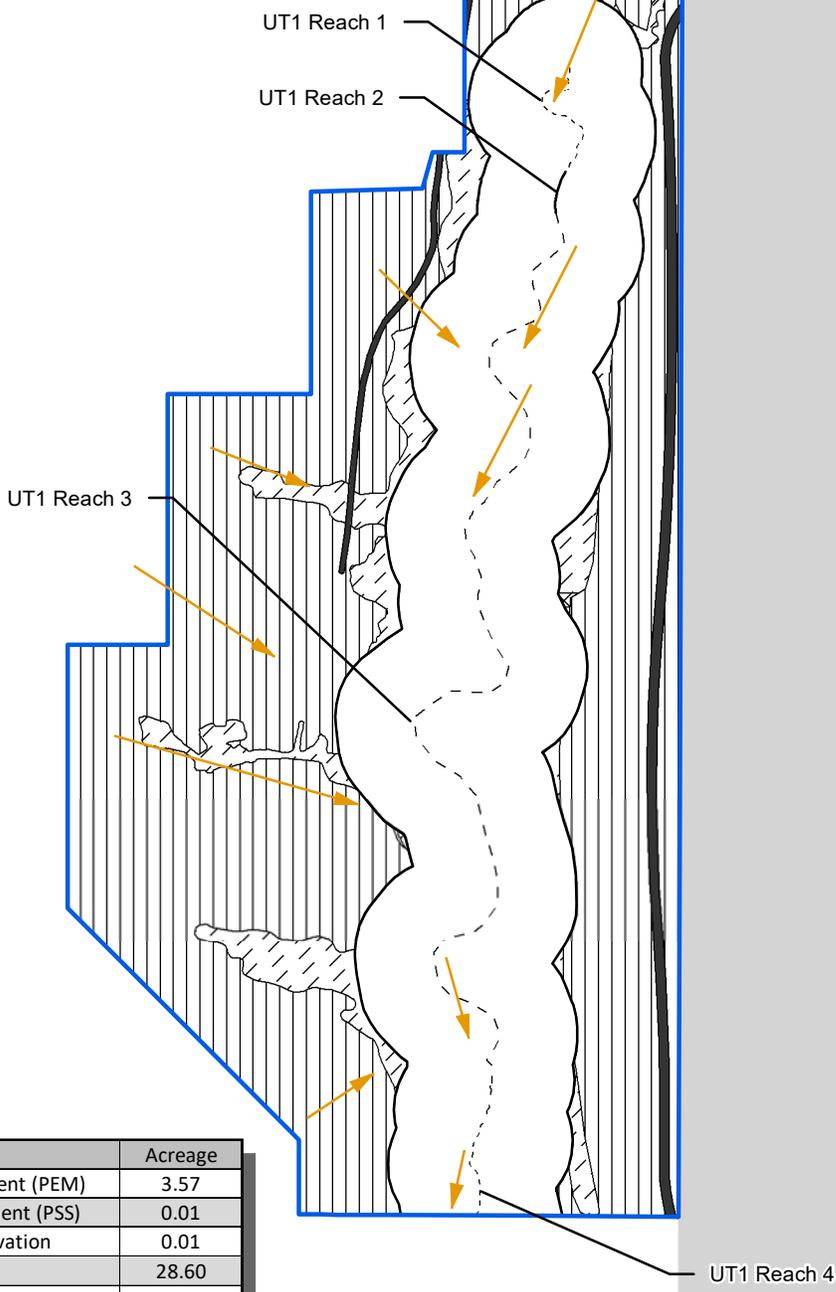
**MATRIX**NEWORLD  
Engineering Progress

Drawn By	LMM
Approved By	CET
Date	6/25/2020
Drawing No.	19-043-A013

**3**

Figure No.

County Road 69



Pelican Foster Mitigation Bank

Type	Acreage
Bottomland Hardwood Enhancement (PEM)	3.57
Bottomland Hardwood Enhancement (PSS)	0.01
Bottomland Hardwood Preservation	0.01
Upland Enhancement	28.60
Roads	1.46
<b>Total</b>	<b>33.65</b>

**Legend**

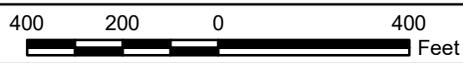
- Pelican Foster Mitigation Bank Addendum (56.33 acres)
- Existing Roads
- Bottomland Hardwood Enhancement (PEM)
- Bottomland Hardwood Enhancement (PSS)
- Bottomland Hardwood Preservation
- Upland Buffer Enhancement
- Streams and Stream Buffers (See Attached Stream Design Plans)
- Priority 1 Stream Restoration
- Stream Wetland Complex
- Stream Enhancement (Hydrologic and Hydraulic)
- Drainage Flow

**Post-Restoration Site Plan**

Mitigation Bank Addendum  
Ashley County, Arkansas

**Pelican Mitigation, LLC**

Pelican Foster Mitigation Bank Addendum

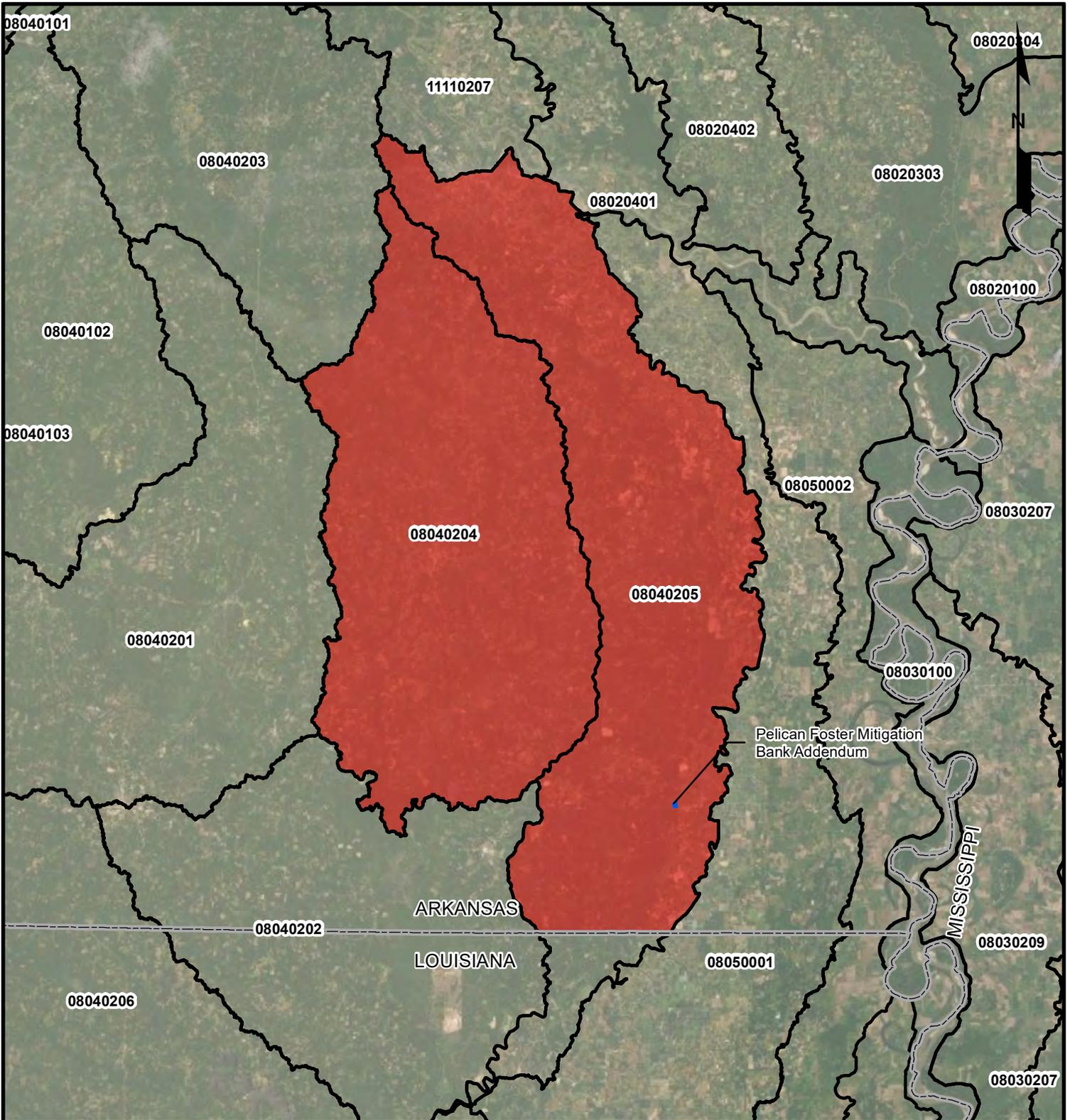


**MATRIX**NEWORLD  
Engineering Progress

Drawn By	CET
Approved By	LAW
Date	9/6/2023
Drawing No.	19-043-A043

**4**

Figure No.



**Legend**

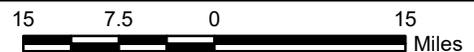
- Pelican Foster Mitigation Bank Addendum (56.33 acres)
- Primary Service Area
- Hydrologic Unit Boundary

**Primary Service Area**

Mitigation Bank Addendum  
Ashley County, Arkansas

**Pelican Mitigation, LLC**

Pelican Foster Mitigation Bank Addendum



**MATRIX**NEWORLD  
Engineering Progress

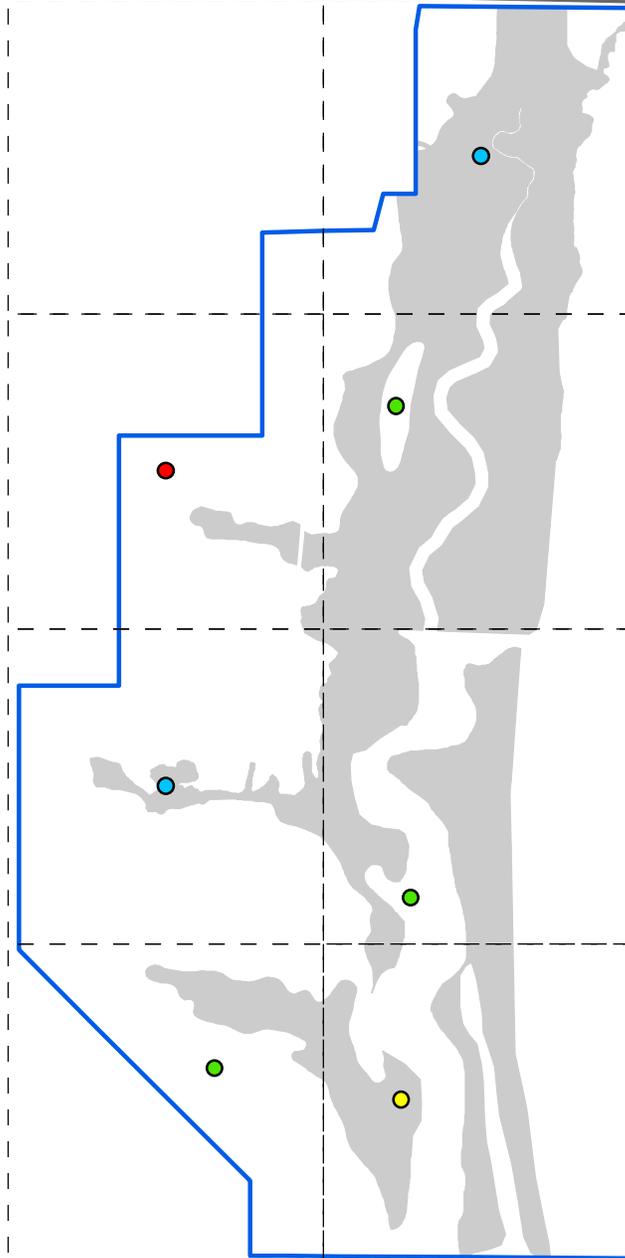
Drawn By	LMM
Approved By	CET
Date	6/25/2020
Drawing No.	19-043-A018

**8**

Figure No.

**Source:** Base map comprised of 2019 aerial photography from USDA/FSA Aerial Photography Field Office, National Agriculture Imagery Program (NAIP). Hydrologic Unit Boundaries (HUC)

County Road 69



**Legend**

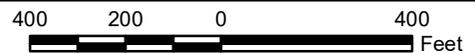
- Pelican Foster Mitigation Bank Addendum (56.33 acres)
- Wetland and Stream Buffer Enhancement
- 10 Acre Grid
- Enhancement Plots (10%)
- Adjusted Enhancement Plots to Compensate for Habitat Type
- Preservation and Upland Plots (5%)
- Adjusted Preservation and Upland Plots to Compensate for Habitat Type

**Permanent Monitoring Plots**

**Mitigation Bank Addendum**  
Ashley County, Arkansas

**Pelican Mitigation, LLC**

Pelican Foster Mitigation Bank Addendum



**MATRIX**NEWORLD  
Engineering Progress

Drawn By	LMM
Approved By	CET
Date	6/25/2020
Drawing No.	19-043-A020

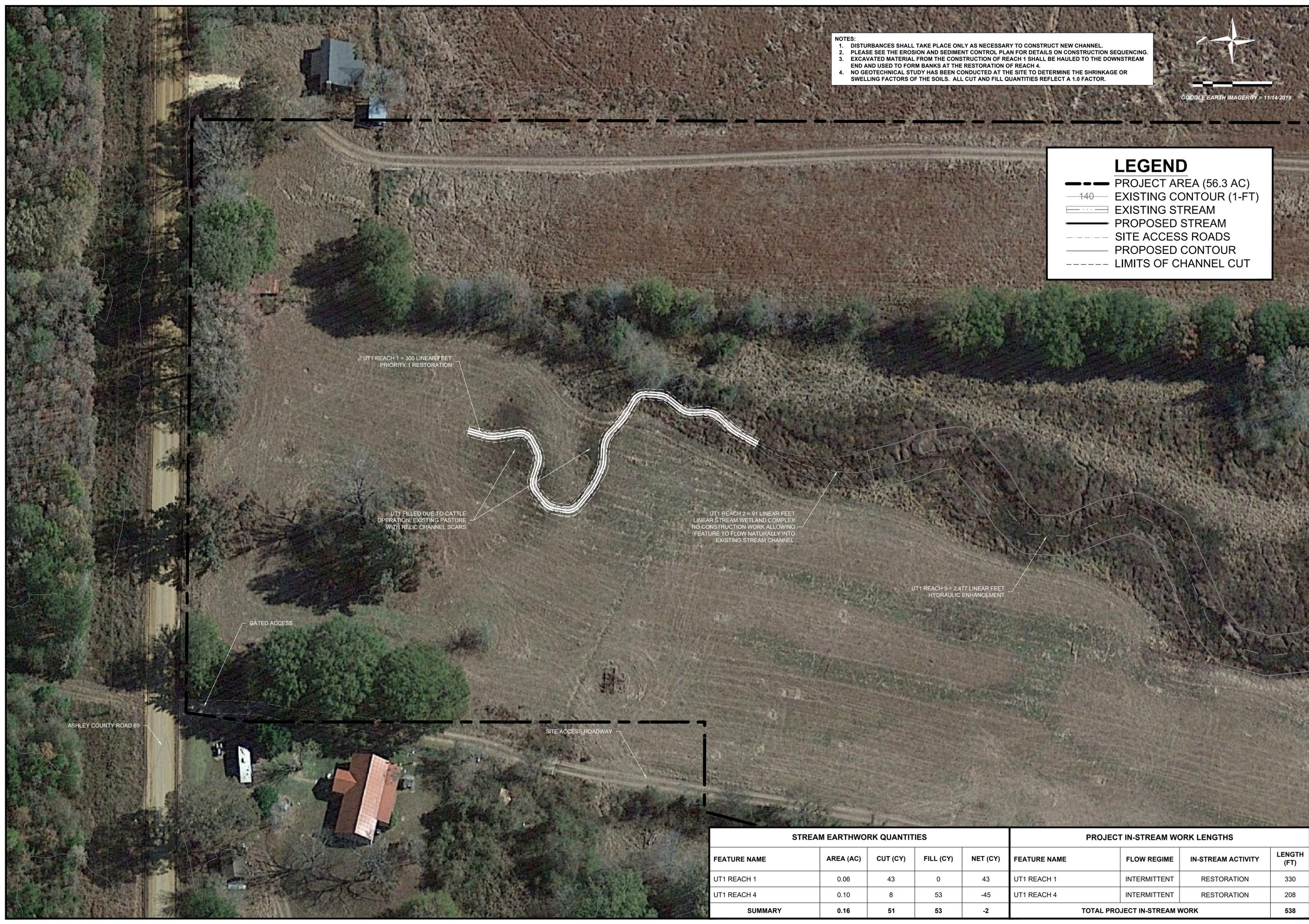
**10**  
Figure No.

NOTES:  
 1. DISTURBANCES SHALL TAKE PLACE ONLY AS NECESSARY TO CONSTRUCT NEW CHANNEL.  
 2. PLEASE SEE THE EROSION AND SEDIMENT CONTROL PLAN FOR DETAILS ON CONSTRUCTION SEQUENCING.  
 3. EXCAVATED MATERIAL FROM THE CONSTRUCTION OF REACH 1 SHALL BE HAULED TO THE DOWNSTREAM END AND USED TO FORM BANKS AT THE RESTORATION OF REACH 4.  
 4. NO GEOTECHNICAL STUDY HAS BEEN CONDUCTED AT THE SITE TO DETERMINE THE SHRINKAGE OR SWELLING FACTORS OF THE SOILS. ALL CUT AND FILL QUANTITIES REFLECT A 1.0 FACTOR.



**LEGEND**

- PROJECT AREA (56.3 AC)
- 140 EXISTING CONTOUR (1-FT)
- EXISTING STREAM
- PROPOSED STREAM
- SITE ACCESS ROADS
- PROPOSED CONTOUR
- LIMITS OF CHANNEL CUT



UT1 REACH 1 = 300 LINEAR FEET  
PRIORITY 1 RESTORATION

UT1 FILLED DUE TO CATTLE  
OPERATION, EXISTING PASTURE  
WITH RELIC CHANNEL SCARS

UT1 REACH 2 = 91 LINEAR FEET  
LINEAR STREAM WETLAND COMPLEX  
NO CONSTRUCTION WORK ALLOWING  
FEATURE TO FLOW NATURALLY INTO  
EXISTING STREAM CHANNEL.

UT1 REACH 3 = 2,477 LINEAR FEET  
HYDRAULIC ENHANCEMENT

GATED ACCESS

ASHLEY COUNTY ROAD 69

SITE ACCESS ROADWAY

STREAM EARTHWORK QUANTITIES					PROJECT IN-STREAM WORK LENGTHS			
FEATURE NAME	AREA (AC)	CUT (CY)	FILL (CY)	NET (CY)	FEATURE NAME	FLOW REGIME	IN-STREAM ACTIVITY	LENGTH (FT)
UT1 REACH 1	0.06	43	0	43	UT1 REACH 1	INTERMITTENT	RESTORATION	330
UT1 REACH 4	0.10	8	53	-45	UT1 REACH 4	INTERMITTENT	RESTORATION	208
<b>SUMMARY</b>	<b>0.16</b>	<b>51</b>	<b>53</b>	<b>-2</b>	<b>TOTAL PROJECT IN-STREAM WORK</b>			<b>538</b>

MVK-2012-197  
 PELICAN MITIGATION, LLC  
 PELICAN FOSTER MITIGATION BANK  
 DRAWN BY: ZBW DATE: 05/26/2023

PRELIMINARY  
 PLANS  
 NOT FOR  
 CONSTRUCTION

**AERIAL SITE PLAN**  
 UT1 REACH 1

**WILBANKS ENGINEERING**  
 & ENVIRONMENTAL SOLUTIONS, LLC  
 4117 SKYLINE DR., WARRIOR, AL 35180 (205) 412-3373



**C.100**



**NOTES:**  
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 4. NO GEOTECHNICAL STUDY HAS BEEN CONDUCTED AT THE SITE TO DETERMINE THE SHRINKAGE OR SWELLING FACTORS OF THE SOILS. ALL CUT AND FILL QUANTITIES REFLECT A 1.0 FACTOR.

**LEGEND**

- PROJECT AREA (56.3 AC)
- EXISTING CONTOUR (1-FT)
- EXISTING STREAM
- PROPOSED STREAM
- SITE ACCESS ROADS
- PROPOSED CONTOUR
- LIMITS OF CHANNEL CUT



MVK-2012-197  
 PELICAN MITIGATION, LLC  
 PELICAN FOSTER MITIGATION BANK  
 DRAWN BY: ZBW DATE: 05/26/2023

PRELIMINARY  
 PLANS  
 NOT FOR  
 CONSTRUCTION

**AERIAL SITE PLAN**  
 UT1 REACH 4

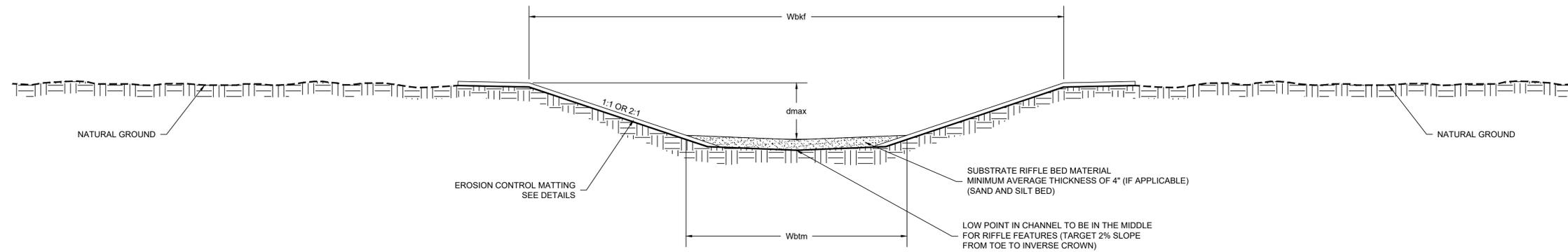
**WILBANKS ENGINEERING**  
 & ENVIRONMENTAL SOLUTIONS, LLC  
 4117 SKYLINE DR., WARRIOR, AL 35180 (205) 412-3373

**C.101**

STREAM EARTHWORK QUANTITIES					PROJECT IN-STREAM WORK LENGTHS			
FEATURE NAME	AREA (AC)	CUT (CY)	FILL (CY)	NET (CY)	FEATURE NAME	FLOW REGIME	IN-STREAM ACTIVITY	LENGTH (FT)
UT1 REACH 1	0.06	43	0	43	UT1 REACH 1	INTERMITTENT	RESTORATION	330
UT1 REACH 4	0.10	8	53	-45	UT1 REACH 4	INTERMITTENT	RESTORATION	208
<b>SUMMARY</b>	<b>0.16</b>	<b>51</b>	<b>53</b>	<b>-2</b>	<b>TOTAL PROJECT IN-STREAM WORK</b>			<b>538</b>

## TYPICAL RIFFLE CROSS-SECTION

NOT TO SCALE



## TYPICAL POOL CROSS-SECTION

NOT TO SCALE

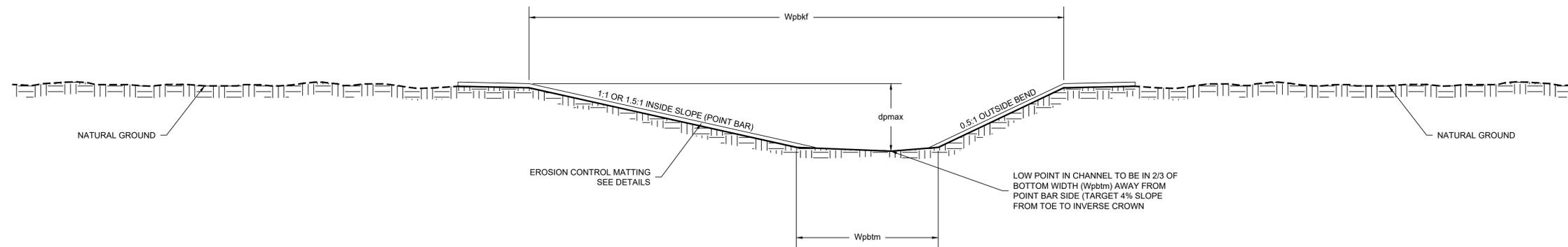


TABLE 1: CROSS-SECTION PARAMETERS

REACH	STATION START	STATION END	RIFFLE PARAMETERS (FEET)			POOL PARAMETERS (FEET)		
			Wbkf (ft)	Wbtm	dmax	Wpbkf	Wpbtm	dpmax
UT1 REACH 1	0+00	3+30	4.0	2.2	0.9	4.7	2.2	1.3
UT1 REACH 4	0+51	2+59	6.3	1.5	1.2	6.3	1.5	1.7

CROSS-SECTION NOTES:

- STREAM CHANNEL IS A ROSGEN "E6" CHANNELS WITH VERY LOW WIDTH/DEPTH RATIOS AND ARE LOW FLOW SYSTEMS. CHANNEL SIDE SLOPES ARE STEEPER FOR THIS PROJECT AS SHOWN WITH SIDE SLOPES OF 1:1 (REACH 1) AND 2:1 (REACH 4) TO ENSURE DEPTHS ARE OBTAINED. INSIDE BENDS OF POOL AREAS SHOULD TARGET A 1:1 (REACH 1) OR 1.5:1 (REACH 4) SLOPE.
- CONSTRUCTION OF EACH REACH SHALL COMMENCE AT THE UPSTREAM END OF EACH CHANNEL AND PROCEED DOWNSTREAM UNLESS NOTED IN THE PLANS OR APPROVED BY THE ENGINEER.
- CHANNEL SHALL BE STABILIZED IN ACCORDANCE TO THE EROSION AND SEDIMENT CONTROL MEASURED NOTED THROUGHOUT THIS PLAN.
- CONSTRUCTION TOLERANCES ARE AS FOLLOWS:  
 WIDTH: 0.4 FEET  
 DEPTH: 0.1 FEET  
 ELEVATIONS: 0.1 FEET  
 STRUCTURES: 0.1 FEET

TABLE 2: STREAM MORPHOLOGICAL PARAMETERS

Stream name	UT1 REACH 1	UT1 REACH 4
Stream Flow type	Intermittent	Intermittent
Rosgen Stream type	E6	E6
Drainage area, DA (sq mi)	0.04	0.10
Mean riffle depth, dbkf (ft)	0.6	0.7
Riffle width, Wbkf (ft)	4.0	6.3
Width-to-depth ratio, [Wbkf/dbkf]	6.6	8.8
Riffle cross-sectional area, Abkf (sq ft)	2.4	4.5
Mean pool depth, dbkfp (ft)	0.8	1.0
Mean pool depth ratio, [dbkfp/dbkf]	1.3	1.3
Pool cross-sectional area, Abkfp (sq ft)	3.7	7.0
Pool area ratio, [Abkfp/Abkf]	1.6	1.6
Entrenchment ratio, ER (Wfpa/Wbkf)	6.1	6.1
Meander length, Lm (ft)	36.8	50.6
Meander length ratio [Lm/Wbkf]	9.2	9.2
Radius of curvature, Rc (ft)	9.8	13.4
Radius of curvature ratio [Rc/Wbkf]	2.5	2.5
Belt width, Wbit (ft)	21.4	29.5
Meander width ratio [Wbit/Wbkf]	5.4	5.4
Pool length, Lp (ft)	7.7	10.5
Pool length ratio [Lp/Wbkf]	1.9	1.9
Pool-to-pool spacing, p-p (ft)	19.1	26.3
Pool-to-pool spacing ratio, [p-p/Wbkf]	4.8	4.8
Valley slope, VS (ft/ft)	0.0004	0.0080
Average water surface slope, S (ft/ft)	0.0003	0.0008
Sinuosity, k = SL/VL (ft/ft)	1.38	1.10
Riffle length, Lrif (ft)	9.8	13.5
Riffle length ratio, [Lrif/Wbkf]	2.5	2.5

MVK-2012-197

PELICAN MITIGATION, LLC

PELICAN FOSTER MITIGATION BANK

DRAWN BY: ZBW DATE: 05/26/2023

PRELIMINARY  
PLANS  
NOT FOR  
CONSTRUCTION

## TYPICAL CROSS-SECTIONS

WILBANKS ENGINEERING  
& ENVIRONMENTAL SOLUTIONS, LLC

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C.200

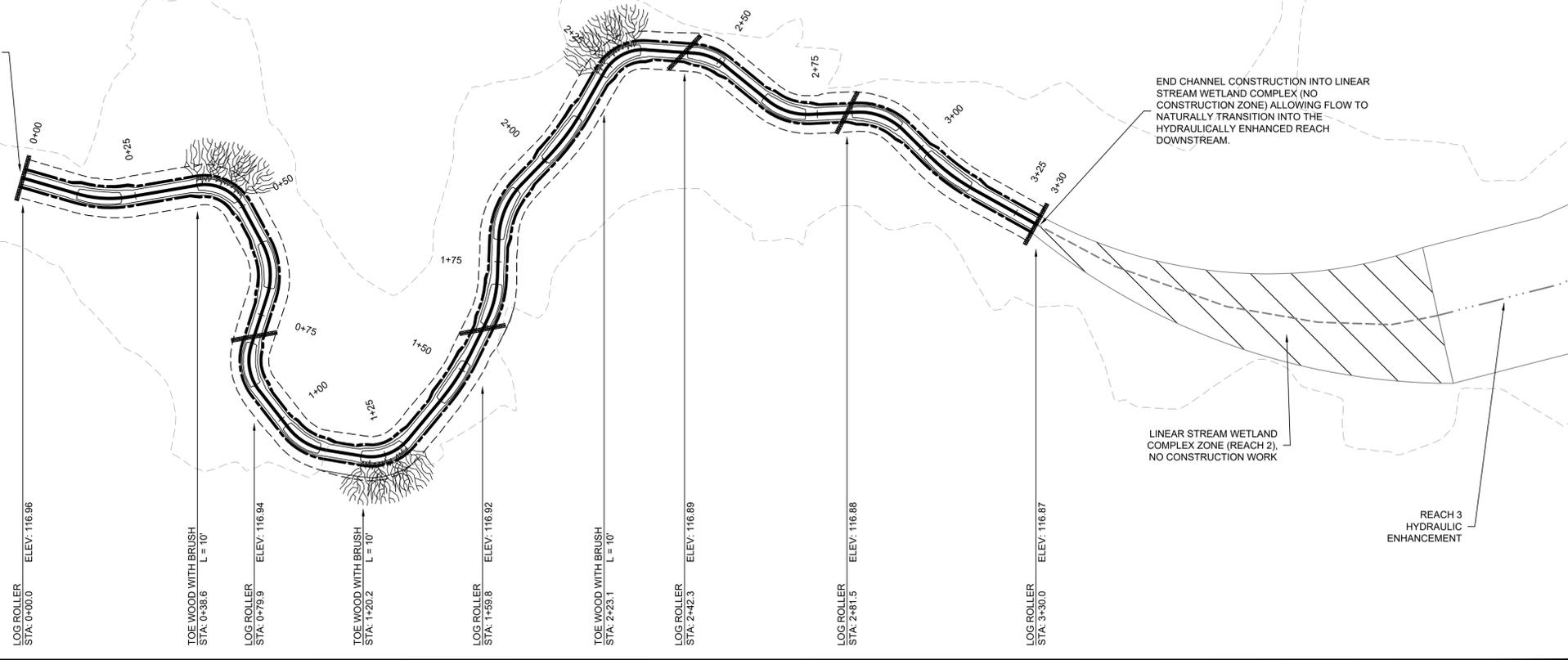
BEGIN CHANNEL CONSTRUCTION AT THIS POINT, INSTALL LOG SILL TO SERVE AS GRADE CONTROL BETWEEN CHANNEL BEGINNING AND TERRAIN TO PREVENT HEAD-CUTTING

END CHANNEL CONSTRUCTION INTO LINEAR STREAM WETLAND COMPLEX (NO CONSTRUCTION ZONE) ALLOWING FLOW TO NATURALLY TRANSITION INTO THE HYDRAULICALLY ENHANCED REACH DOWNSTREAM.



**LEGEND**

- 200--- EXISTING CONTOUR
- PROPOSED CONTOUR
- ... EXISTING STREAM
- === PROPOSED STREAM



LOG ROLLER STA: 0+00.0 ELEV: 116.96

TOE WOOD WITH BRUSH STA: 0+38.6 L = 10' ELEV: 116.94

LOG ROLLER STA: 0+79.9 ELEV: 116.94

TOE WOOD WITH BRUSH STA: 1+20.2 L = 10' ELEV: 116.92

LOG ROLLER STA: 1+59.8 ELEV: 116.92

TOE WOOD WITH BRUSH STA: 2+23.1 L = 10' ELEV: 116.89

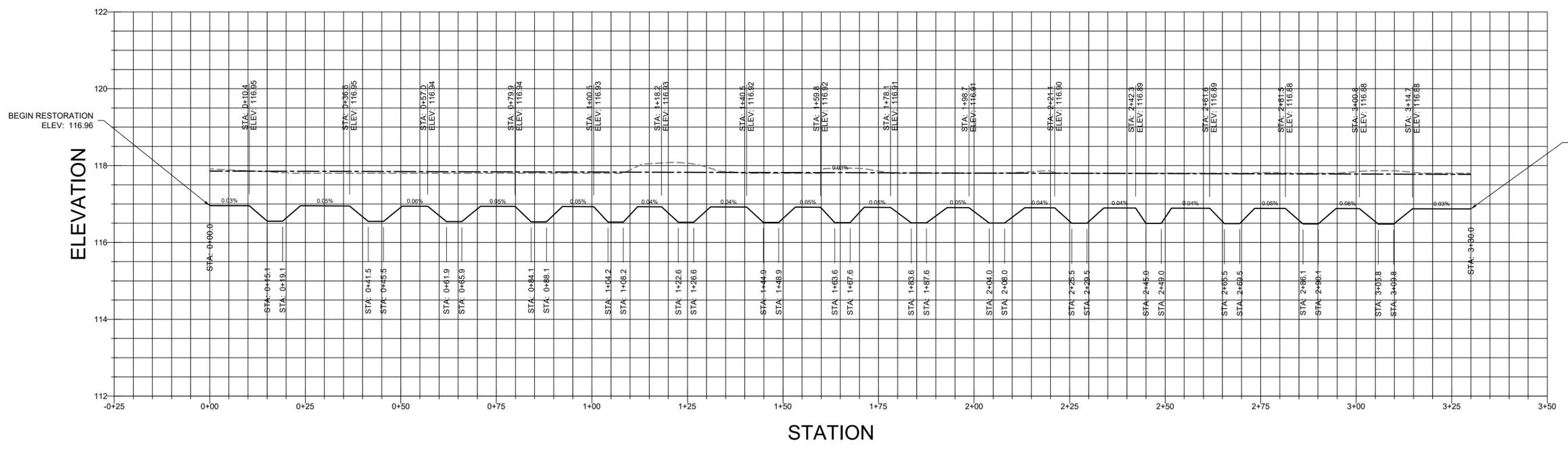
LOG ROLLER STA: 2+42.3 ELEV: 116.89

LOG ROLLER STA: 2+81.5 ELEV: 116.88

LOG ROLLER STA: 3+30.0 ELEV: 116.87

HORIZONTAL SCALE: 1" = 15'  
VERTICAL SCALE: 1" = 1.5'

--- EXISTING GROUND      - - - - - PROPOSED BANKFULL      ——— PROPOSED THALWEG



MVK-2012-197

PELICAN MITIGATION, LLC

PELICAN FOSTER MITIGATION BANK

DRAWN BY: ZBW      DATE: 05/26/2023

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PRELIMINARY PLANS NOT FOR CONSTRUCTION

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**PLAN & PROFILE**  
UT1 REACH 1: STA 0+00 - 3+30

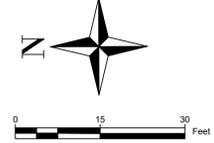
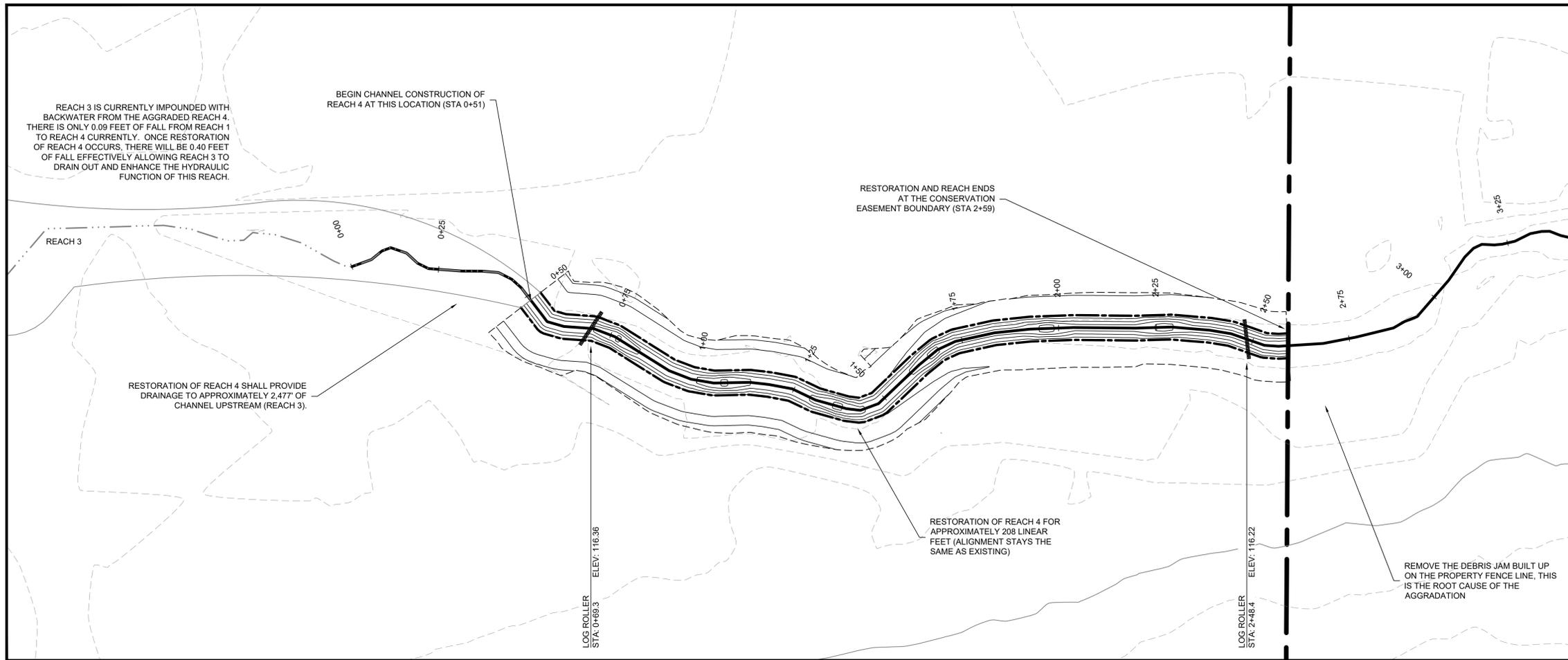
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**WILBANKS ENGINEERING & ENVIRONMENTAL SOLUTIONS, LLC**

4117 SKYLINE DR., WARRIOR, AL 35180 (205) 412-3373

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**C.300**



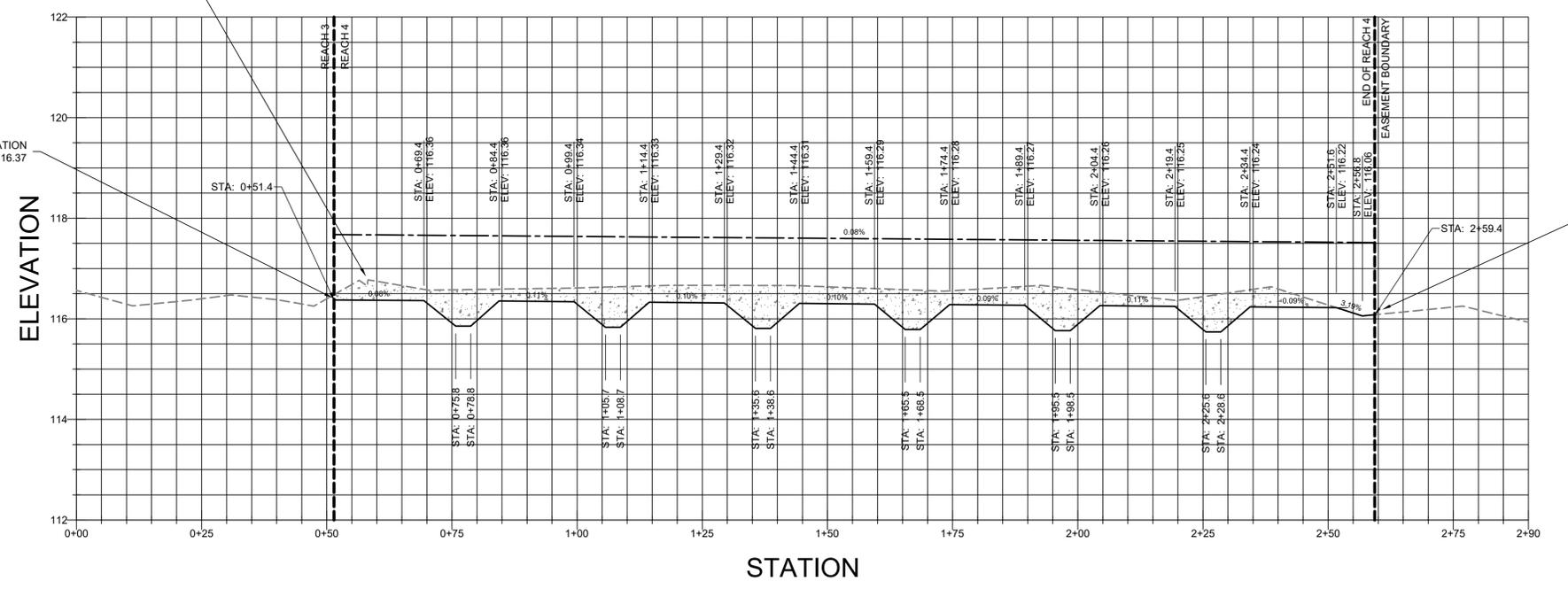
**LEGEND**

- 200--- EXISTING CONTOUR
- PROPOSED CONTOUR
- ... EXISTING STREAM
- == PROPOSED STREAM

HORIZONTAL SCALE: 1" = 15'  
 VERTICAL SCALE: 1" = 1.5'

--- EXISTING GROUND      - - - - PROPOSED BANKFULL      — PROPOSED THALWEG

AGGRADED MATERIAL TO BE EXCAVATED DURING CONSTRUCTION. THIS SHALL PROVIDE DRAINAGE TO APPROXIMATELY 2,477' OF CHANNEL UPSTREAM (REACH 3).



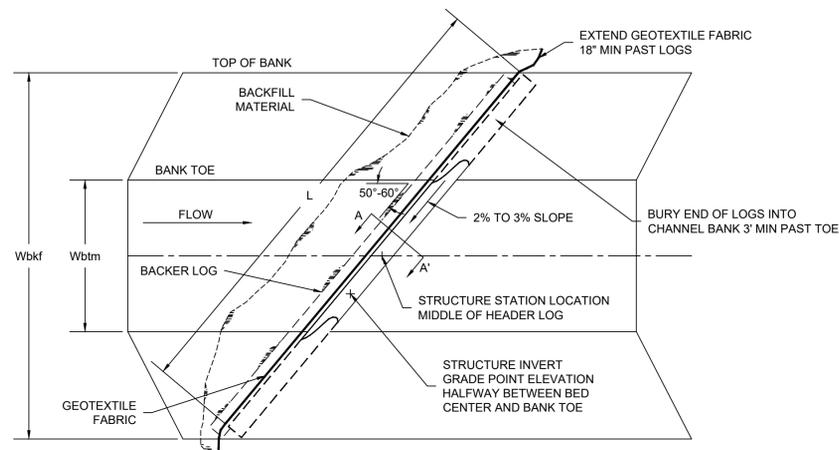
**PLAN & PROFILE**  
 UT1 REACH 4: STA 0+51 - 2+59

**WILBANKS ENGINEERING & ENVIRONMENTAL SOLUTIONS, LLC**  
 4117 SKYLINE DR., WARRIOR, AL 35180 (205) 412-3373

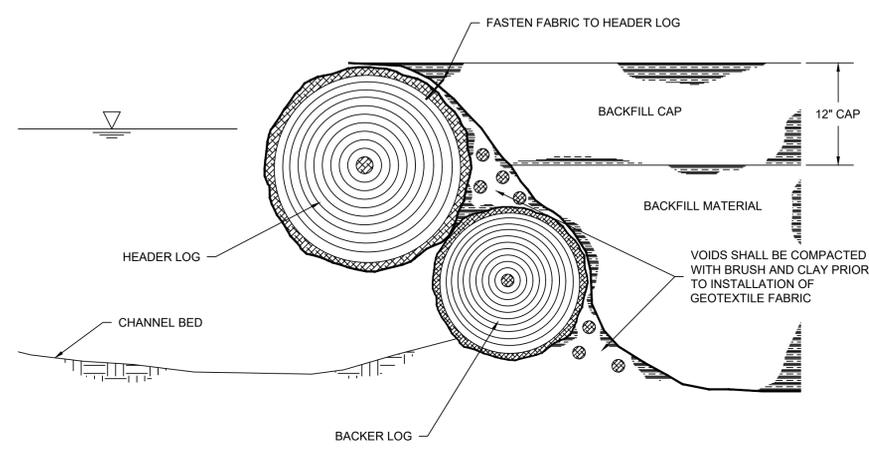
MVK-2012-197  
 PELICAN MITIGATION, LLC  
 PELICAN FOSTER MITIGATION BANK  
 DRAWN BY: ZBW      DATE: 05/26/2023

PRELIMINARY PLANS NOT FOR CONSTRUCTION

**C.301**



**LOG ROLLER  
PLAN VIEW**  
NOT TO SCALE

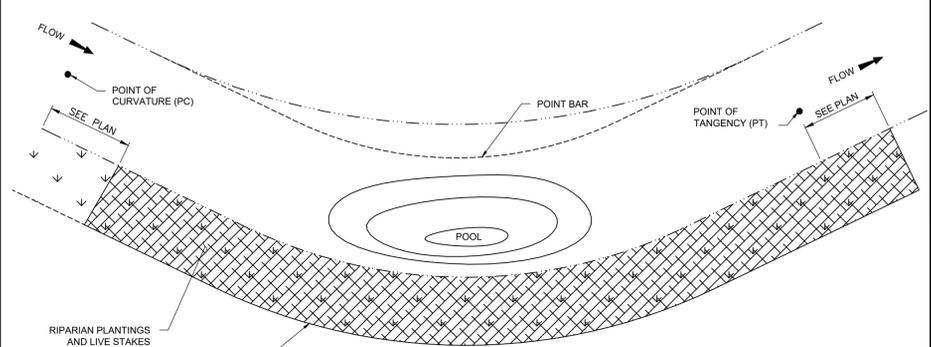


**SECTION A-A'**  
NOT TO SCALE

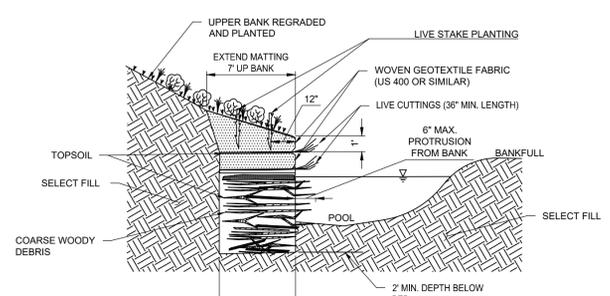
- NOTES:**
1. STRUCTURE BACKFILL MATERIAL AND CAP SHALL CONSIST OF CLAYEY MATERIAL COMPACTED TO 95% OF THE STANDARD PROCTOR IN-SITU DENSITY.
  2. ALL VOIDS AND GAPS BETWEEN LOGS SHALL BE PACKED WITH BRUSH AND CLAY PRIOR TO INSTALLATION OF GEOTEXTILE FABRIC.
  3. SEE TABLE 3 FOR LOG LENGTHS & DIAMETERS.
  4. LOG DIAMETERS SHALL NOT EXCEED 6" MORE THAN MINIMAL VALUES.
  5. STRUCTURE DEMARCATED AT STATION 0+00 AND 3+30 ARE GRADE CONTROL SILLS. BACKER LOG IS NOT REQUIRED AT THESE LOCATIONS.

REACH	STATION START	STATION END	LOG LENGTH (FEET)	LOG MIN DIAMETER (INCHES)
UT1 REACH 1	0+00	3+30	9.0	6.0
UT1 REACH 4	0+51	2+59	9.0	8.0

**LOG ROLLER**



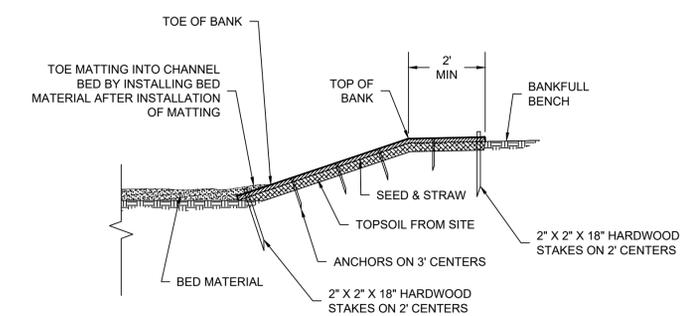
**PLAN VIEW**  
NOT TO SCALE



**SECTION VIEW**  
NOT TO SCALE

- NOTES:**
1. USE A MIXTURE OF TREE TOPS, BRANCHES, LOGS AND ROOTWADS FOR COARSE WOODY DEBRIS WITH AT LEAST 30% FROM FRESHLY CUT LIVE MATERIAL.
  2. PLACE 6" LIFT OF TOPSOIL ON TOP OF WOODY DEBRIS, THEN PLACE WOVEN GEOTEXTILE FABRIC BEFORE FINAL PLACEMENT OF TOPSOIL TO GRADE.
  3. STRUCTURE SHALL EXTEND FROM BANK LENGTH SHOWN ON THE PLANS.
  4. WOODY DEBRIS SHALL NOT EXTEND INTO THE CHANNEL MORE THAN 6".
  5. ALL MATERIALS ARE TO BE APPROVED BY ENGINEER OR ENGINEER'S ONSITE CONSTRUCTION OBSERVER.

**TOE WOOD WITH BRUSH**



**SECTION VIEW**  
NOT TO SCALE

**TYPICAL BANK PROTECTION**

REACH	LOG ROLLERS	TOE WOOD WITH BRUSH
UT1 REACH 1	10	7
UT1 REACH 4	2	0
<b>SUMMARY</b>	<b>12</b>	<b>7</b>

MVK-2012-197  
 PELICAN MITIGATION, LLC  
 PELICAN FOSTER MITIGATION BANK  
 DRAWN BY: ZBW DATE: 05/26/2023

PRELIMINARY  
 PLANS  
 NOT FOR  
 CONSTRUCTION

**STRUCTURE DETAILS**

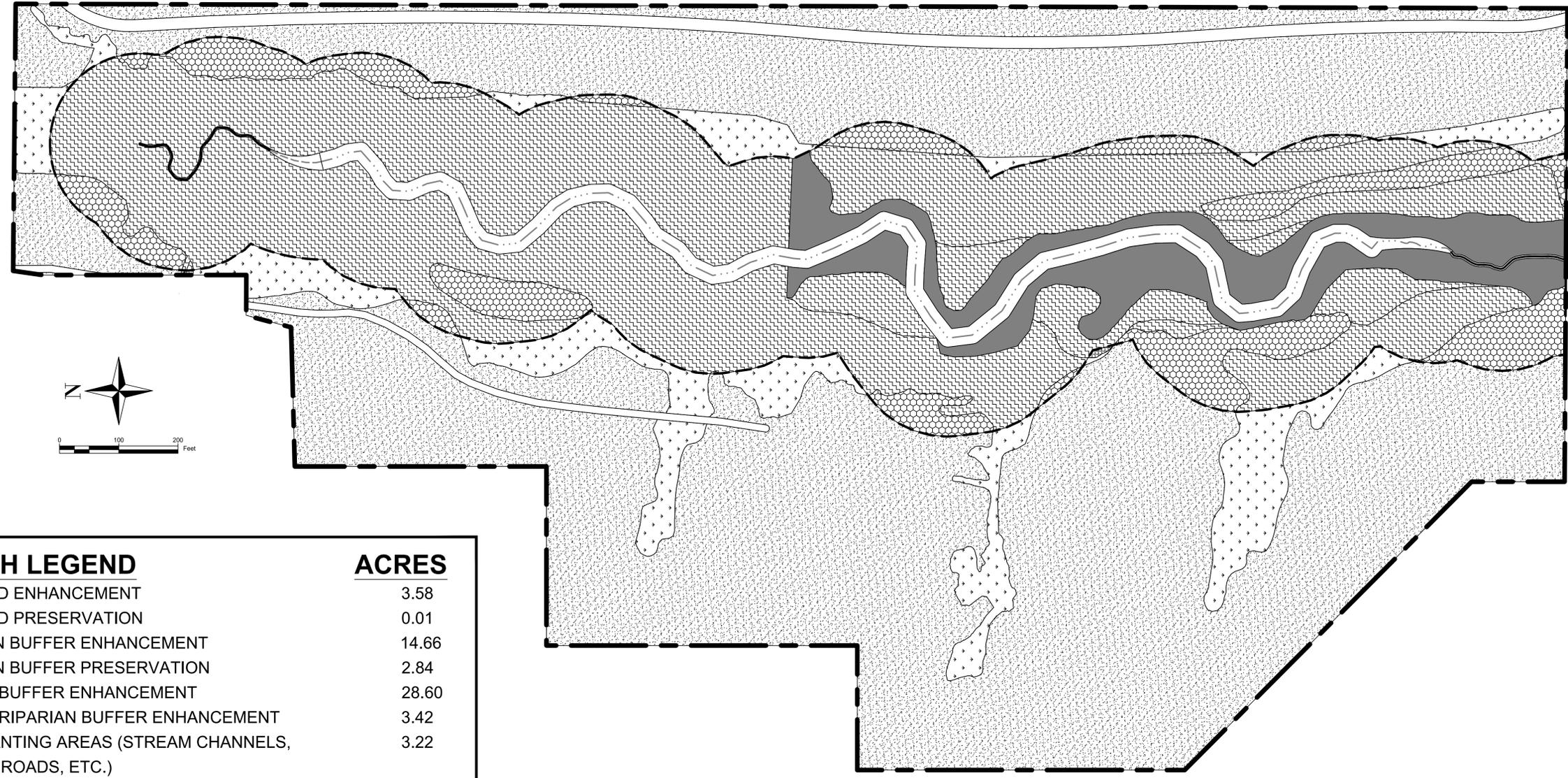
WILBANKS ENGINEERING  
 & ENVIRONMENTAL SOLUTIONS, LLC  
 4117 SKYLINE DR., WARRIOR, AL 35180 (205) 412-3373



**C.400**

**LEGEND**

- PROJECT AREA (56.3 AC)
- - - EXISTING STREAM
- PROPOSED STREAM
- - - - - STREAM WETLAND COMPLEX

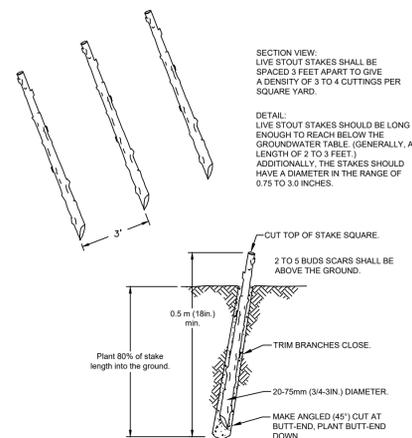
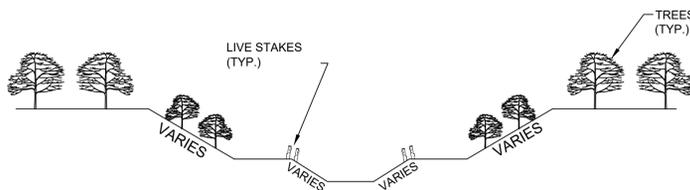
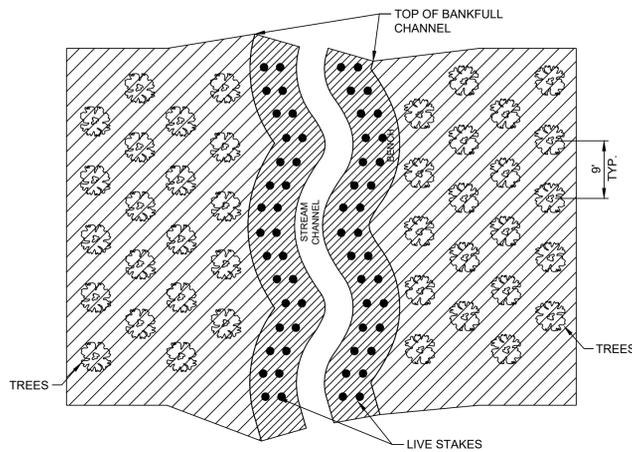


**HATCH LEGEND**

	<b>ACRES</b>
	3.58
	0.01
	14.66
	2.84
	28.60
	3.42
	3.22
<b>TOTAL SITE</b>	<b>56.3</b>

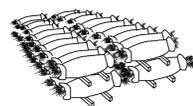
NOTES:  
 WETLAND, RIPARIAN BUFFER, AND UPLAND PLANTING AREAS TO BE PLANTED WITH LIST OF TREE SPECIES ON TABLE 5 ON SHEET C.501

TOTAL WETLAND BOTTOMLAND HARDWOOD (BLH) ENHANCEMENT AREAS = 3.58  
 TOTAL RIPARIAN BUFFER BLH ENHANCEMENT AREAS = 14.66  
 TOTAL UPLAND BUFFER AND UPLAND RIPARIAN BUFFER ENHANCEMENT AREAS = 32.02  
 TOTAL PLANTING ACRES = 50.26



- NOTES:**
- HARVEST AND PLANT STAKES DURING THE DORMANT SEASON.
  - USE HEALTHY, STRAIGHT AND LIVE WOOD AT LEAST 1 YEAR OLD.
  - MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION; USE AN IRON BAR FOR PILOT HOLE IN FIRM SOILS.
  - STAKES CAN BE CUT AND INSTALLED ON THE SAME DAY OR SOAKED.
  - IF SOAKED, SOAK CUTTINGS FOR AT LEAST 24 HOURS PRIOR TO INSTALLATION. SOAK FOR 5-7 DAYS FOR BEST RESULTS.
  - TAMP THE SOIL AROUND THE STAKE.

**LIVE STAKES**  
NOT TO SCALE



**CARE OF SEEDLINGS UNTIL PLANTED**

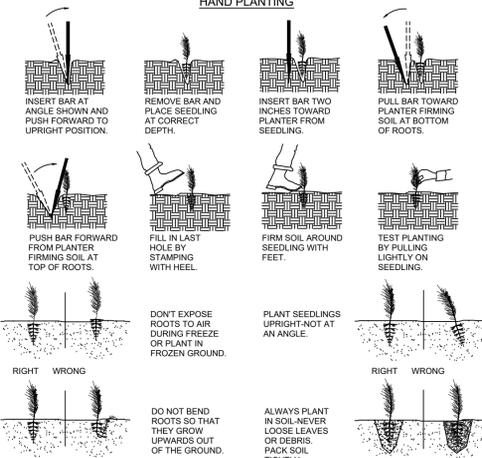
SEEDLINGS SHOULD BE PLANTED IMMEDIATELY. IF IT IS NECESSARY TO STORE MOSS-PACKED SEEDLINGS FOR MORE THAN 2 WEEKS, ONE PINT OF WATER PER PKG. SHOULD BE ADDED. IF CLAY-TREATED, DO NOT ADD WATER TO PKG. PACKAGES MUST BE SEPERATED TO PROVIDE VENTILATION TO PREVENT "HEATING". SEPERATE PACKAGES WITH WOOD STRIPS AND STORE OUT OF THE WIND IN A SHADED, COOL (NOT FREEZING) LOCATION.



**CARE OF SEEDLINGS DURING PLANTING**

WHEN PLANTING, ROOTS MUST BE KEPT MOIST UNTIL TREES ARE IN THE GROUND. DO NOT CARRY SEEDLINGS IN YOUR HAND EXPOSED TO THE AIR AND SUN. KEEP MOSS-PACKED SEEDLINGS IN A CONTAINER PACKED WITH WET MOSS OR FILLED WITH THICK MUDDY WATER. COVER CLAY-TREATED SEEDLINGS WITH WET BURLAP ONLY.

**HAND PLANTING**



**BARE ROOT**  
NOT TO SCALE

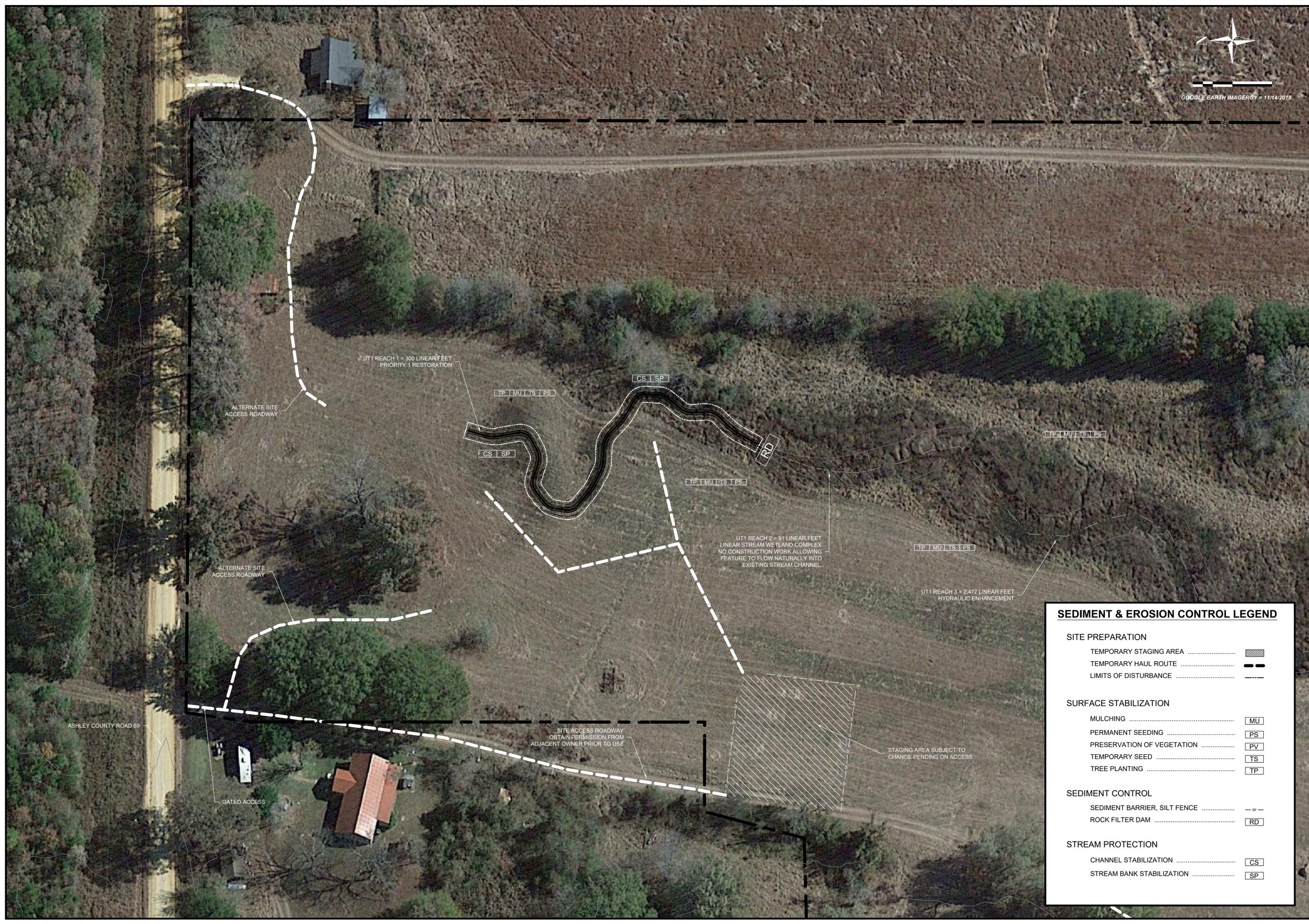
TABLE 5: PLANTING SPECIES AND QUANTITIES			
SCIENTIFIC NAME	COMMON NAME	PLANTING MATERIAL SIZE	COMPOSITION (%)
<b>STREAMSIDE</b>			
<i>Alnus serrulata</i>	Hazel alder	Live Stake	3/sy
<i>Cephalanthus occidentalis</i>	Buttonbush	Live Stake	3/sy
<i>Populus deltoides</i>	Eastern cottonwood	Live Stake	3/sy
<i>Salix nigra</i>	Black willow	Live Stake	3/sy
<i>Sambucus canaensis</i>	Elderberry	Live Stake	3/sy
<b>WETLAND (BOTTOMLAND HARDWOOD) ENHANCEMENT AREAS</b>			
<i>Morus rubra</i>	Red mulberry	Bare Root	6.0
<i>Plantanus occidentalis</i>	American sycamore	Bare Root	4.0
<i>Taxodium distichum</i>	Bald cypress	Bare Root	7.0
<i>Ulmus americana</i>	American elm	Bare Root	3.0
<b>TOTAL SOFT MAST</b>			<b>20.0</b>
<i>Carya illinoensis</i>	Sweet pecan	Bare Root	13.5
<i>Quercus lyrata</i>	Overcup oak	Bare Root	13.5
<i>Quercus michauxii</i>	Swamp chestnut oak	Bare Root	13.5
<i>Quercus nigra</i>	Water oak	Bare Root	13.0
<i>Quercus phellos</i>	Willow oak	Bare Root	13.0
<i>Quercus texana</i>	Nuttall oak	Bare Root	13.5
<b>TOTAL HARD MAST</b>			<b>80.0</b>
<b>RIPIARIAN BUFFER (BOTTOMLAND HARDWOOD) ENHANCEMENT AREAS</b>			
<i>Betula nigra</i>	River birch	Bare Root	3.0
<i>Morus rubra</i>	Red mulberry	Bare Root	4.0
<i>Plantanus occidentalis</i>	American sycamore	Bare Root	5.0
<i>Taxodium distichum</i>	Bald cypress	Bare Root	5.0
<i>Ulmus americana</i>	American elm	Bare Root	3.0
<b>TOTAL SOFT MAST</b>			<b>20.0</b>
<i>Carya illinoensis</i>	Sweet pecan	Bare Root	13.5
<i>Quercus lyrata</i>	Overcup oak	Bare Root	13.5
<i>Quercus michauxii</i>	Swamp chestnut oak	Bare Root	13.5
<i>Quercus nigra</i>	Water oak	Bare Root	13.0
<i>Quercus phellos</i>	Willow oak	Bare Root	13.0
<i>Quercus texana</i>	Nuttall oak	Bare Root	13.5
<b>TOTAL HARD MAST</b>			<b>80.0</b>
<b>UPLAND BUFFER AND UPLAND RIPIARIAN BUFFER ENHANCEMENT</b>			
<i>Fagus grandiolia</i>	American beech	Bare Root	6.0
<i>Morus rubra</i>	Red mulberry	Bare Root	5.0
<i>Plantanus occidentalis</i>	American sycamore	Bare Root	5.0
<i>Pinus echinata</i>	Shortleaf pine	Bare Root	4.0
<b>TOTAL SOFT MAST</b>			<b>20.0</b>
<i>Carya cordiformis</i>	Bitternut hickory	Bare Root	13.5
<i>Carya illinoensis</i>	Sweet pecan	Bare Root	13.5
<i>Quercus alba</i>	Northern white oak	Bare Root	13.0
<i>Quercus falcata</i>	Souther red oak	Bare Root	13.5
<i>Quercus nigra</i>	Water oak	Bare Root	13.0
<i>Quercus pagoda</i>	Cherry bark oak	Bare Root	13.5
<b>TOTAL HARD MAST</b>			<b>80.0</b>

**NOTES:**

- WETLAND ENHANCEMENT: VEGETATIVE ENHANCEMENT TO BE ACCOMPLISHED BY PLANTING AN APPROPRIATE SPECIES MIXTURE OF BOTTOMLAND HARDWOODS (TABLE 5) DURING THE STANDARD PLANTING SEASON (DECEMBER THRU MARCH). FOLLOWING THE REMOVAL OF UNDESIRED VEGETATION FROM THE ENHANCEMENT AREAS. SEEDLINGS WILL BE PLANTED USING A 9 X 9 FOOT SPACING FOR AN INITIAL STAND DENSITY OF AT LEAST 540 SEEDLINGS PER ACRE.
- STREAM BUFFER ENHANCEMENT: VEGETATIVE ENHANCEMENT WILL BE CONDUCTED WITHIN RIPIARIAN AREAS OF THE EXISTING AND PROPOSED STREAM CORRIDORS WHERE IN-STREAM RESTORATION ACTIVITIES ARE CONDUCTED. A 150-FOOT-WIDE BUFFER (150 FEET EACH SIDE OF THE STREAM) WILL BE PLANTED WITH AN APPROPRIATE SPECIES MIXTURE OF BOTTOMLAND HARDWOODS (TABLE 5) DURING THE STANDARD PLANTING SEASON (DECEMBER THRU MARCH), FOLLOWING THE REMOVAL OF UNDESIRED VEGETATION FROM THE ENHANCEMENT RIPIARIAN AREAS. SEEDLINGS WILL BE PLANTED USING A 9 X 9 FOOT SPACING FOR AN INITIAL STAND DENSITY OF AT LEAST 540 SEEDLINGS PER ACRE.
- UPLAND BUFFER AND UPLAND STREAM BUFFER ENHANCEMENT: VEGETATIVE ENHANCEMENT WILL BE ACCOMPLISHED BY PLANTING AN APPROPRIATE SPECIES MIXTURE OF HARDWOODS (TABLE 5) DURING THE STANDARD PLANTING SEASON (DECEMBER THRU MARCH). SEEDLINGS WILL BE PLANTED USING A 9 X 9 FOOT SPACING FOR AN INITIAL STAND DENSITY OF AT LEAST 540 SEEDLINGS PER ACRE.
- THE TOTAL WETLAND ENHANCEMENT AREA IS 3.58 ACRES INVOLVING THE PLANTING OF 1,934 SEEDLINGS.
- THE TOTAL RIPIARIAN BUFFER ENHANCEMENT AREA IS 14.66 ACRES INVOLVING THE PLANTING OF 7,917 SEEDLINGS.
- THE TOTAL UPLAND BUFFER AND UPLAND STREAM BUFFER ENHANCEMENT AREA IS 32.02 ACRES INVOLVING THE PLANTING OF 17,291 SEEDLINGS.

**TABLE 6: GRASS SPECIES SELECTION**

SCIENTIFIC NAME	COMMON NAME	SEEDING RATE PER ACRES, PLS	SEEDING DATE RANGES
<b>PERMANENT SEEDING</b>			
<i>Cynodon dactylon</i>	Bermudagrass	10	APR 1 - JUL 1
<i>Schedonorus arundinaceus</i>	Tall Fescue	40-50	SEP 1 - NOV 1
<i>Chamaecrista fasciculata</i>	Partridge Pea	10-15	MAR 15 - JUL 15
<i>Panicum virgatum</i>	Switchgrass	4	APR 1 - JUN 15
<b>TEMPORARY SEEDING</b>			
<i>Urochloa ramosa</i>	Millet	40	APR 1 - AUG 1
<i>Secale cereal</i>	Rye	3 BU	SEP 1 - NOV 15
<i>Lolium perenne</i>	Ryegrass	30	AUG 1 - SEP 15
<i>Sorghum bicolor</i>	Sorghum-Sudan Hybrids	40	MAY 1 - AUG 1
<i>Triticum aestivum</i>	Wheat	3 BU	SEP 1 - NOV 1
<i>Trifolium incarnatum</i>	Crimson Clover	10	SEP 1 - NOV 1



MVK-2012-197  
 PELICAN MITIGATION, LLC  
 PELICAN FOSTER MITIGATION BANK  
 DRAWN BY: ZBW DATE: 05/26/2023

PRELIMINARY  
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 CONSTRUCTION

# EROSION & SEDIMENT CONTROL PLAN

## SITE PLAN

**WILBANKS ENGINEERING & ENVIRONMENTAL SOLUTIONS, LLC**  
 4117 SKYLINE DR., WARRIOR, AL 35180 (205) 412-3373

SEDIMENT & EROSION CONTROL LEGEND	
<b>SITE PREPARATION</b>	
TEMPORARY STAGING AREA .....	
TEMPORARY HAUL ROUTE .....	
LIMITS OF DISTURBANCE .....	
<b>SURFACE STABILIZATION</b>	
MULCHING .....	
PERMANENT SEEDING .....	
PRESERVATION OF VEGETATION .....	
TEMPORARY SEED .....	
TREE PLANTING .....	
<b>SEDIMENT CONTROL</b>	
SEDIMENT BARRIER, SILT FENCE .....	
ROCK FILTER DAM .....	
<b>STREAM PROTECTION</b>	
CHANNEL STABILIZATION .....	
STREAM BANK STABILIZATION .....	



RESTORATION AND REACH ENDS  
AT THE CONSERVATION  
EASEMENT BOUNDARY (STA 2+59)

BEGIN CHANNEL CONSTRUCTION OF  
REACH 4 AT THIS LOCATION

RESTORATION OF REACH 4 FOR  
APPROXIMATELY 208 LINEAR  
FEET (ALIGNMENT STAYS THE  
SAME AS EXISTING)

UT1 REACH 3 = 2,477 LINEAR FEET  
HYDRAULIC ENHANCEMENT

REACH 3 IS CURRENTLY IMPOUNDED WITH  
BACKWATER FROM THE AGGRADED REACH 4.  
THERE IS ONLY 0.09 FEET OF FALL FROM REACH 1  
TO REACH 4 CURRENTLY. ONCE RESTORATION  
OF REACH 4 OCCURS, THERE WILL BE 0.40 FEET  
OF FALL EFFECTIVELY ALLOWING REACH 3 TO  
DRAIN OUT AND ENHANCE THE HYDRAULIC  
FUNCTION OF THIS REACH.

CS | SP

RD

TP | MU | TS | PS

REMOVE THE DEBRIS JAM BUILT UP  
ON THE PROPERTY FENCE LINE. THIS  
IS THE ROOT CAUSE OF THE  
AGGRADATION

ACCESS THROUGH  
PASTURE

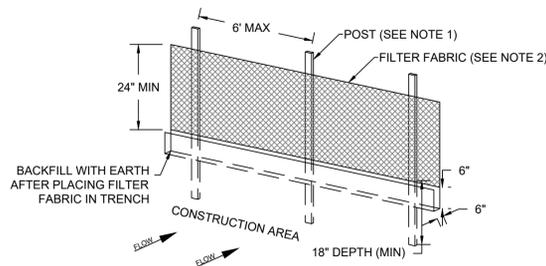
SEDIMENT & EROSION CONTROL LEGEND	
<b>SITE PREPARATION</b>	
TEMPORARY STAGING AREA .....	
TEMPORARY HAUL ROUTE .....	
LIMITS OF DISTURBANCE .....	
<b>SURFACE STABILIZATION</b>	
MULCHING .....	
PERMANENT SEEDING .....	
PRESERVATION OF VEGETATION .....	
TEMPORARY SEED .....	
TREE PLANTING .....	
<b>SEDIMENT CONTROL</b>	
SEDIMENT BARRIER, SILT FENCE .....	
ROCK FILTER DAM .....	
<b>STREAM PROTECTION</b>	
CHANNEL STABILIZATION .....	
STREAM BANK STABILIZATION .....	

MVK-2012-197  
 PELICAN MITIGATION, LLC  
 PELICAN FOSTER MITIGATION BANK  
 DRAWN BY: ZBW DATE: 05/26/2023

PRELIMINARY  
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**EROSION & SEDIMENT  
 CONTROL PLAN  
 SITE PLAN**

**WILBANKS ENGINEERING  
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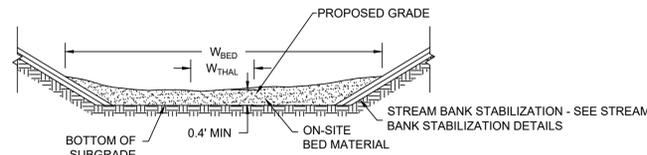


**NOTES**

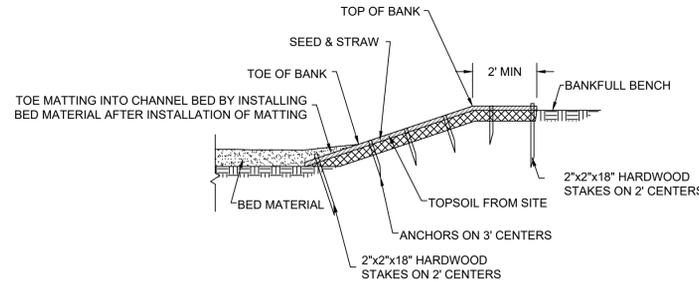
- POSTS SHALL BE EITHER 3-IN THICK SOFT WOOD, 1.5-IN THICK OAK, OR 1.33 LB/LF STEEL WITH A MINIMUM LENGTH OF 4-FT. STEEL POSTS SHALL HAVE PROJECTIONS TO FACILITATE FASTENING FABRIC. SEE TABLE SB-1 FOR WOOD POST FASTENER INFORMATION.
- FILTER FABRIC SHALL MEET THE FOLLOWING:
  - MINIMUM WIDTH OF 36 INCHES
  - CONFORM TO AASHTO M289
- SILT FENCES TO BE INSTALLED IN LOCATIONS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND AS DIRECTED BY THE ENGINEER PRIOR TO BEGINNING OF CONSTRUCTION.
- SILT FENCES TO BE MAINTAINED AND CLEANED AS NECESSARY TO MAINTAIN IN FUNCTIONAL CONDITION. SILT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT.
- SILT FENCES TO BE REMOVED AND THE AREA TO BE RESTORED TO ITS NATURAL CONDITION WHEN PERMANENT EROSION AND SEDIMENT CONTROL PROCEDURES ARE EFFECTIVE.

**(SB) SEDIMENT BARRIER - TYPE B**  
NOT TO SCALE

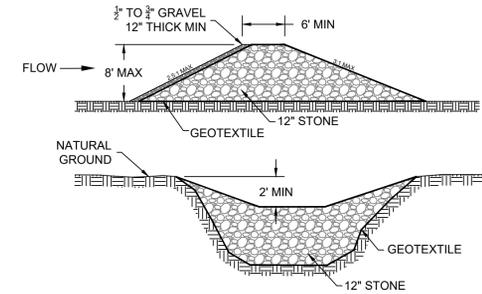
TABLE SB-1: WOOD POST FASTENERS FOR SILT FENCE				
	GAUGE	CROWN	LEGS	STAPLES/POST
WIRE STAPLES	17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.
	GAUGE	LENGTH	BUTTON HEAD	NAIL/POST
NAILS	14 MIN.	1"	3/4" LONG	4 MIN.



**(CS) CHANNEL STABILIZATION**  
NOT TO SCALE



**(SP) STREAM BANK STABILIZATION**  
NOT TO SCALE



**(RD) ROCK FILTER DAM**  
NOT TO SCALE

**GENERAL NOTES:**

DISTURBED ACREAGE: LESS THAN 0.2 ACRES  
RIVER BASIN: BAYOU BARTHOLOMEW WATERSHED; HUC: 08040205  
MAINTENANCE CONTACT: LEE WOMACK (PROJECT MANAGER)

- THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENT CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE. SILT WILL NOT BE ALLOWED BEYOND LIMITS OF DISTURBANCE.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTIONS, REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING AN NPDES PERMIT THROUGH THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AND A COPY WILL BE PROVIDED TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF A SWPPP PLAN AS REQUIRED BY LDEQ.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL INSPECTIONS AND REPORTING REQUIRED BY NPDES PERMIT AND ADEQ.
- ALL EROSION CONTROL MEASURES SHALL MEET THE GUIDELINES SET FORTH IN THE STATE, COUNTY, AND LOCAL EROSION AND SEDIMENT CONTROL GUIDELINES AS A MINIMUM STANDARD, OR AS REQUIRED BY THE ADEQ.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE OR VIOLATIONS OF EROSION CONTROL REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING AND STORAGE OF HAZARDOUS MATERIALS SUCH AS: PAINTS, FUELS, FERTILIZERS, POISONS, ETC. DURING CONSTRUCTION, APPROPRIATE SPILL PREVENTION SHOULD BE IMPLEMENTED TO REDUCE THE POSSIBILITY OF CONTAMINATING STORM WATER RUNOFF.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF FOURTEEN (14) DAYS OR MORE, OR AS REQUIRED BY NPDES PERMIT OR LDEQ.
- THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL AND PERFORM NECESSARY REPAIRS AND MAINTENANCE.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- NO PETROLEUM PRODUCTS ARE TO BE STORED ONSITE WHILE UNATTENDED BY CONTRACTORS REPRESENTATIVES.
- EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL DISTURBED CHANNEL BANKS.
- FUELING STATION AND TEMPORARY RESTROOMS WILL BE LOCATED AT THE STAGING AREA ALONG WITH NPDES PERMIT BOX AND RAIN GAUGE.
- ALL DISTURBED AREAS WILL BE STABILIZED USING MULCH AND TEMPORARY SEED TO PROVIDE ADEQUATE GROUND COVER AND CONDITION THE SOIL.
- MULCH MUST BE ADDED TO ACHIEVE 75% COVERAGE (ROUGHLY 2 TONS/ACRE FOR WHEAT STRAW).
- TEMPORARY SEEDING WILL INCLUDE A MIX OF MILLET, RYE, RYEGRASS, SORGHUM-SUDAN HYBRIDS, WHEAT, AND CRIMSON CLOVER. SEE SHEET C.501 FOR PLANTING RATES.
- PERMANENT SEEDING WILL INCLUDE A HERBACEOUS, NATIVE MIX OF BERMUDA GRASS, TALL FESCUE, PARTRIDGE PEA AND SWITCHGRASS. SEE SHEETS C.501 FOR PLANTING RATES.
- A FERTILITY SOIL TEST SHALL BE USED TO DETERMINE FERTILIZER AMOUNTS OR, IF NO SOIL TEST IS AVAILABLE, A STANDARD MIXTURE SHALL BE APPLIED OF 1.5 TONS OF LIME PER ACRE AND 400 LBS OF 5-15-10 FERTILIZER PER ACRE. SEE SHEETS C.500 AND C.501 FOR PLANTING DETAILS.

**CONSTRUCTION NOTES:**

THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL CONDUCT STREAM WORK, INCLUDING INSTALLATION OF IN-STREAM STRUCTURES, GRADING, STABILIZATION MEASURES, AND SEEDING AND MULCHING, IN AN EFFICIENT MANNER THAT MINIMIZES DISTURBANCES.

- THE CONTRACTOR SHALL IDENTIFY THE PROJECT BOUNDARY, LIMITS OF DISTURBANCE, SENSITIVE AREAS AND STAGING AREAS WITH THE PROJECT MANAGER OR ENGINEER.
- THE CONTRACTOR SHALL MOBILIZE EQUIPMENT, MATERIALS, PREPARE STAGING AREAS, AND STOCKPILE AREAS AS SHOWN ON THE PLANS.
- CONSTRUCTION TRAFFIC SHALL BE LIMITED TO 'LIMITS OF DISTURBANCE' AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- THE TEMPORARY STAGING AREAS SHOULD BE USED FOR EQUIPMENT STAGING, STORAGE, MAINTENANCE AND CLEAN-UP. CONTRACTOR PARKING, TEMPORARY RESTROOMS, AND ALL ONSITE FUELING SHOULD TAKE PLACE WITHIN THESE AREAS AS WELL. MINIMIZE DISTURBANCES WITHIN THESE AREAS. A TEMPORARY GRAVEL LAYER 2-4" IN THICKNESS OR TIMBER MATS ARE ACCEPTABLE DURING WET CONDITIONS, BUT NOT REQUIRED.
- THE CONTRACTOR SHALL INSTALL ALL TEMPORARY ROCK FILTER DAMS, SILT FENCE, AND MULCHING AROUND ALL CONSTRUCTION AREAS INCLUDING STAGING AND STOCKPILE AREAS AS INDICATED ON THE CONSTRUCTION PLANS AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BEGIN CLEARING, FLOODPLAIN EXCAVATION, AND GRADING WORK TO DESIGN GRADES AT THE UPSTREAM END OF EACH CHANNEL AS INDICATED ON THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL NOT DISTURB ANY MORE FLOODPLAIN AREA LARGER AND STREAM REACH LONGER THAN CAN BE STABILIZED IN ONE DAY.
- ONCE A SECTION OF STREAM AND FLOODPLAIN HAVE BEEN EXCAVATED TO DESIGN GRADES, IN-STREAM STRUCTURES, MATTING, AND TRANSPLANTS SHALL BE INSTALLED IN THAT SECTION. EXISTING BED MATERIAL SHALL BE HARVESTED FROM EXISTING CHANNEL AND PLACED INTO CONSTRUCTED CHANNEL ONLY AFTER MATTING HAS BEEN INSTALLED ON CHANNEL BANKS.
- ONCE A STREAM WORK PHASE IS COMPLETE, THE CONTRACTOR WILL APPLY TEMPORARY SEEDING, PERMANENT SEEDING, AND MULCH TO ALL AREAS DISTURBED DURING CONSTRUCTION. TEMPORARY AND PERMANENT SEEDING MIXTURES WILL BE APPLIED AS SHOWN ON THE PLANTING PLAN (SHEETS C.500 AND C.501). ALL SEEDING AND MULCHING SHALL BE COMPLETED BEFORE LEAVING THE PROJECT SITE ALONG WITH REMOVAL OF ANY TEMPORARY STREAM CROSSINGS AND TEMPORARY ROCK FILTER DAMS.
- THE CONTRACTOR OR OTHER QUALIFIED PERSONNEL SHALL PLANT ALL WOODY VEGETATION AND INSTALL LIVE STAKING ACCORDING TO THE PLANTING DETAILS AND SPECIFICATIONS. ALL PERMANENT SEEDING AND PLANTINGS SHALL BE PERFORMED DURING THE APPROPRIATE TIME OF YEAR.
- THE CONTRACTOR SHALL ENSURE THAT THE SITE IS FREE OF TRASH AND LEFTOVER MATERIALS PRIOR TO DEMOBILIZATION OF EQUIPMENT FROM THE SITE.

**SEQUENCING NOTES:**

- PHASE 1: ESTABLISH TEMPORARY HAUL ROUTES AND STAGING AREA(S). INSTALL ROCK FILTER DAM DOWNSTREAM OF THE CHANNEL TO BE RESTORED AND INSTALL SILT FENCING AROUND STAGING AREAS.
- PHASE 2: CONSTRUCT UT1 REACH 1 FIRST AND UT1 REACH 4 SECOND. BEGIN WORK AT THE UPSTREAM END AND WORK IN A DOWNSTREAM DIRECTION. EXCESS MATERIAL EXCAVATED IN THE CONSTRUCTION OF UT1 REACH 1 SHALL BE HAULED AND STOCKPILED IN THE STAGING AREA FOR USE IN THE FORMING OF CHANNEL BANKS FOR THE UT1 REACH 4 RESTORATION WORK.
- PHASE 3: ONCE UT1 REACH 4 HAS BEEN COMPLETED, REMOVE THE ACCUMULATED WOODY DEBRIS ALONG THE FENCE LINE (PROPERTY LINE) TO PREVENT THE REACH FROM SILTING IN AGAIN.
- PHASE 4: ONCE ALL PORTIONS OF THE STREAM HAVE BEEN CONSTRUCTED, ENSURE THAT THE DIMENSION, PATTERN AND PROFILE OF THE NEWLY CONSTRUCTED CHANNEL MEET THE DESIGN PARAMETERS BY CONDUCTING AS-BUILT SURVEY. ENSURE THAT ALL STREAM BANKS ARE STABILIZED WITH MATTING AND ALL STRUCTURES HAVE BEEN INSTALLED CORRECTLY. ONCE SEEDING AND PLANTINGS ALONG THE BANKS HAVE OCCURRED, REMOVE THE CHECK DAM AT THE DOWNSTREAM END OF THE CHANNEL.
- PHASE 5: STABILIZE GRADING EXTENTS WITH TEMPORARY/PERMANENT SEED AND MULCH FOLLOWING COMPLETION OF FINAL GRADING AND CONTOURING. IMPLEMENT THE PLANTING PLAN THROUGHOUT THE SITE. REMOVE TEMPORARY B MPS AS NEEDED.

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PELICAN MITIGATION, LLC  
PELICAN FOSTER MITIGATION BANK  
DRAWN BY: ZBW DATE: 05/26/2023

PRELIMINARY  
PLANS  
NOT FOR  
CONSTRUCTION

**EROSION & SEDIMENT  
CONTROL PLAN  
NOTES**

WILBANKS ENGINEERING  
& ENVIRONMENTAL SOLUTIONS, LLC  
4117 SKYLINE DR., WARRIOR, AL 35180 (205) 412-3373

