

JOINT PUBLIC NOTICE

January 17, 2022

United States Army Corps of Engineers
New Orleans District
Regulatory Division
7400 Leake Avenue
New Orleans, Louisiana 70118

(504) 862-1581
Project Manager
Zachary Steinkoenig
zachary.j.steinkoenig@usace.army.mil
MVN 2021-01086-CF

State of Louisiana
Department of Environmental Quality
Water Permits Division
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

(225) 219-3225
Project Manager
Elizabeth Hill
WQC Application Number
WQC #220110-01

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the US Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403), [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS 30:2074 A(3) and provisions of Section 401 of the Clean Water Act (P.L. 95-17).

PROPOSED EXPANSION OF THE LAROSE GAS PROCESSING PLANT in LAFOURCHE PARISH

NAME OF APPLICANT: DISCOVERY PRODUCER SERVICES, LLC , c/o Perennial Environmental Services, 13100 Northwest Freeway, Suite 160, Houston, TX 77040.

LOCATION OF WORK: Located at 1474 LA Hwy 24, Larose, Louisiana, Latitude 29.541878, Longitude -90.395433, in Lafourche Parish, within the West Central Louisiana Coastal hydrologic unit (HUC 08090302), as shown on the attached drawings.

CHARACTER OF WORK: The applicant has requested a Department of the Army authorization to clear, grade, excavate and deposit fill and/or aggregate material for the expansion of the Larose Gas Processing Plant. Approximately 172,785 cubic yards of a mixture of topsoil, concrete, stone/gravel material will be placed on-site for the plant expansion. The plant expansion includes the installation of a new 11,000-barrel slug catcher, the installation of a new 15,000-barrell per day condensate stabilizer, the removal of an existing levee, construction of a new permanent levee, temporary workspace and access roads, and the permanent fill of a pond. would be hauled in and deposited to achieve required grade elevation requirements. The proposed project is situated on land adjacent to the existing Larose Gas Processing Plant and contains mixed-habitat wetlands. It is anticipated that the proposed action would have minimal impact on adjacent wetlands outside of the project footprint with the use of best management practices.

A preliminary analysis has determined that the proposed project would permanently impact 6.43 acres of wetlands of mixed habitat types. However, the exact extent of the coverage and impacts will be confirmed in a pending wetland determination.

The applicant claims avoided and minimized impacts on wetlands and non-wetland waters during the design phase of the project by modifying the slug catcher and condensate stabilizer configurations and selecting facility layouts that minimize the project footprint to the greatest extent practicable. The applicant states that they will purchase compensatory mitigation for permanent impacts to wetlands.

The comment period for the Department of Army Permit and the Louisiana Department of Environmental Quality will close in **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION, RGC, Zachary Steinkoenig**. Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC application number and be mailed to the Louisiana Department of Environmental Quality at the address above. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and inclusive of the initial comment period, will not exceed a total of 30 calendar days.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction

Corps of Engineers Permit Criteria

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs,

considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

The New Orleans District has determined that the footprint of the project may be utilized by the eastern black rail (*Laterallus jamaicensis spp. jamaicensis*) and determined the activity May Affect this species based on the Information & Planning Consultation for Endangered Species (IPaC) procedure, as signed on January 27, 2020, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service (USFWS), Ecological Services Office. Additionally, it was determined the project would Not Likely Adversely Affect the west Indian manatee (*Trichechus manatus*) per the IPaC. The New Orleans District has initiated required consultation with the USFWS in regards to the eastern black rial.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of up to **N/A** acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

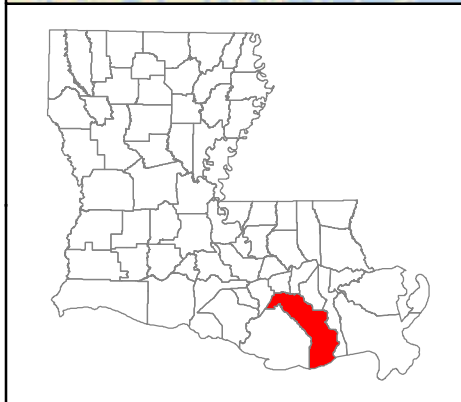
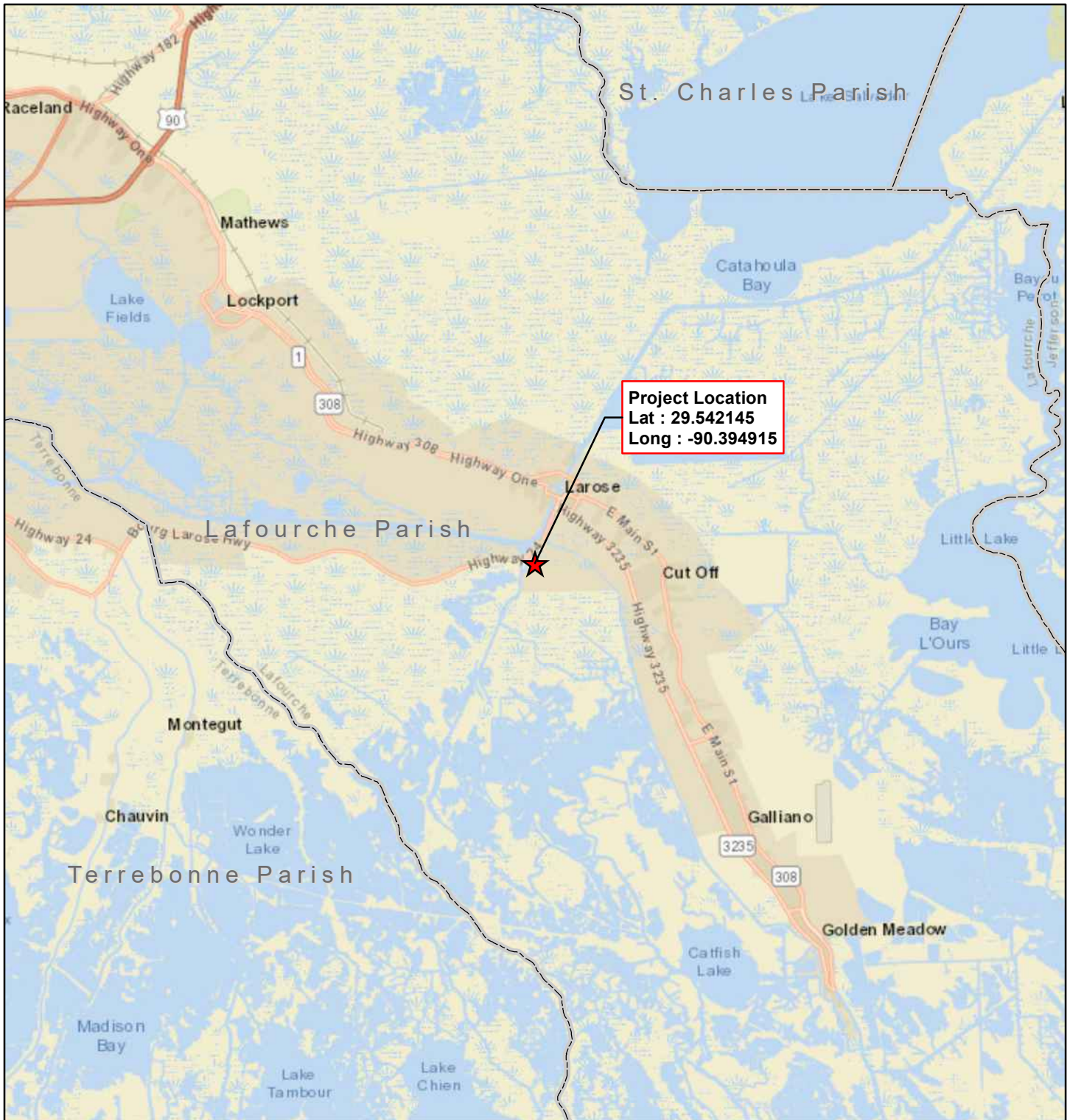
If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate water quality standards will be required from the Department of Environmental Quality, Office of Environmental Services before a permit is issued.



Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. You are requested

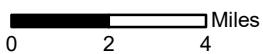
to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program (Louisiana Coastal Zone Application P #20211071). The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

JOHN M. HERMAN
Chief, Central Evaluation Branch
Regulatory Division



-  Project Location
-  Parish Boundary



Vicinity Map
Louisiana Gulf Enhancement Project
Discovery Producer Services, LLC
Lafourche Parish, Louisiana

Page 1 of 1	Scale: 1:250,000
NAD 83 LA S Ft	Date: November 2021



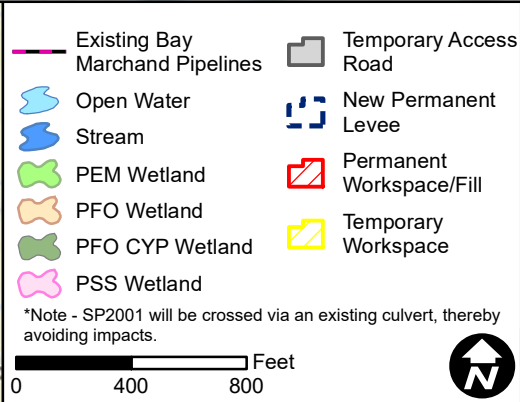
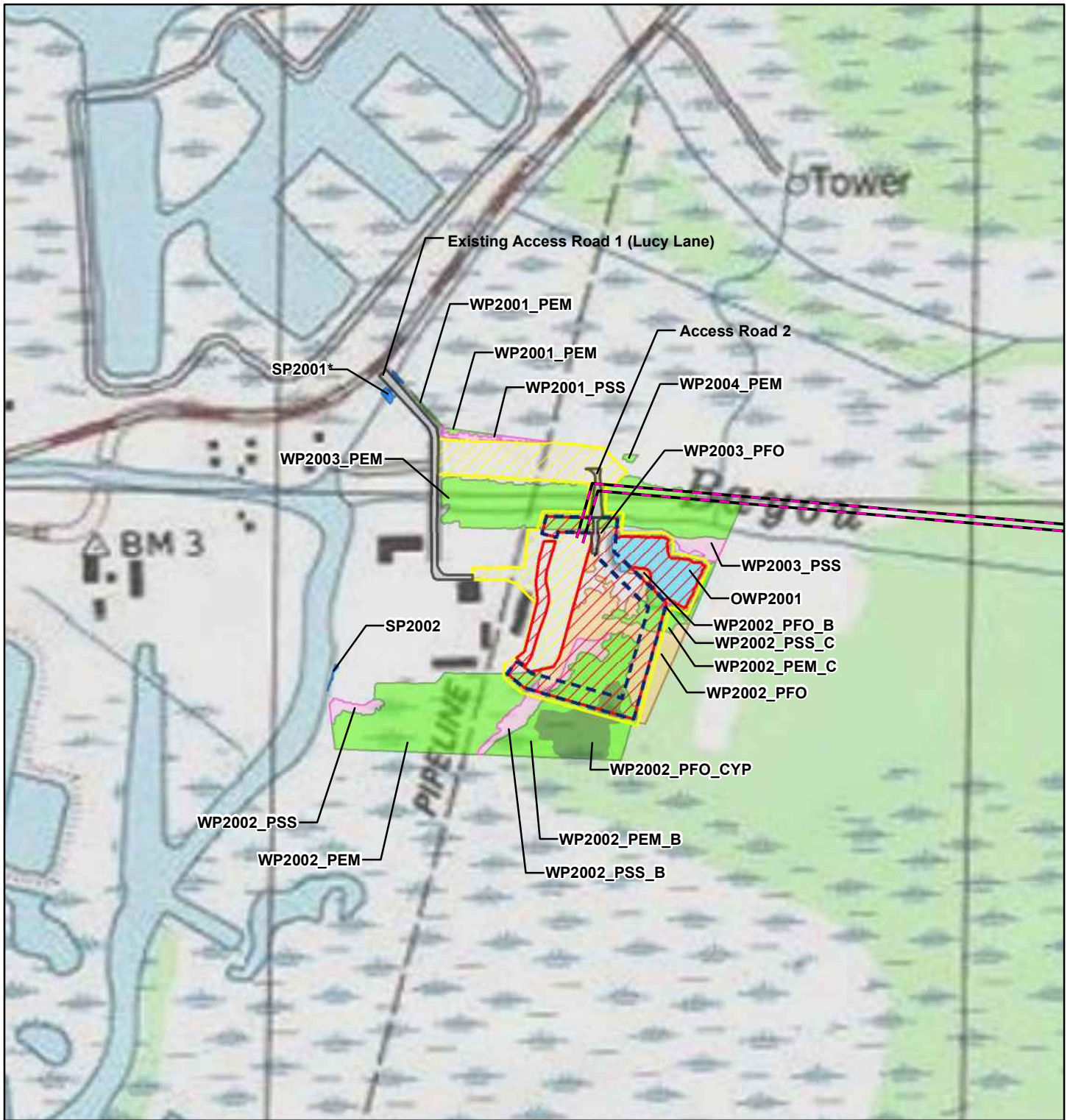
Existing Bay Marchand Pipelines	Temporary Access Road
Stream	New Permanent Levee
Open Water	Permanent Workspace/Fill
PEM Wetland	Temporary Workspace
PFO Wetland	
PFO CYP Wetland	
PSS Wetland	

*Note - SP2001 will be crossed via an existing culvert, thereby avoiding impacts.

0 240 480 Feet

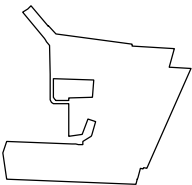
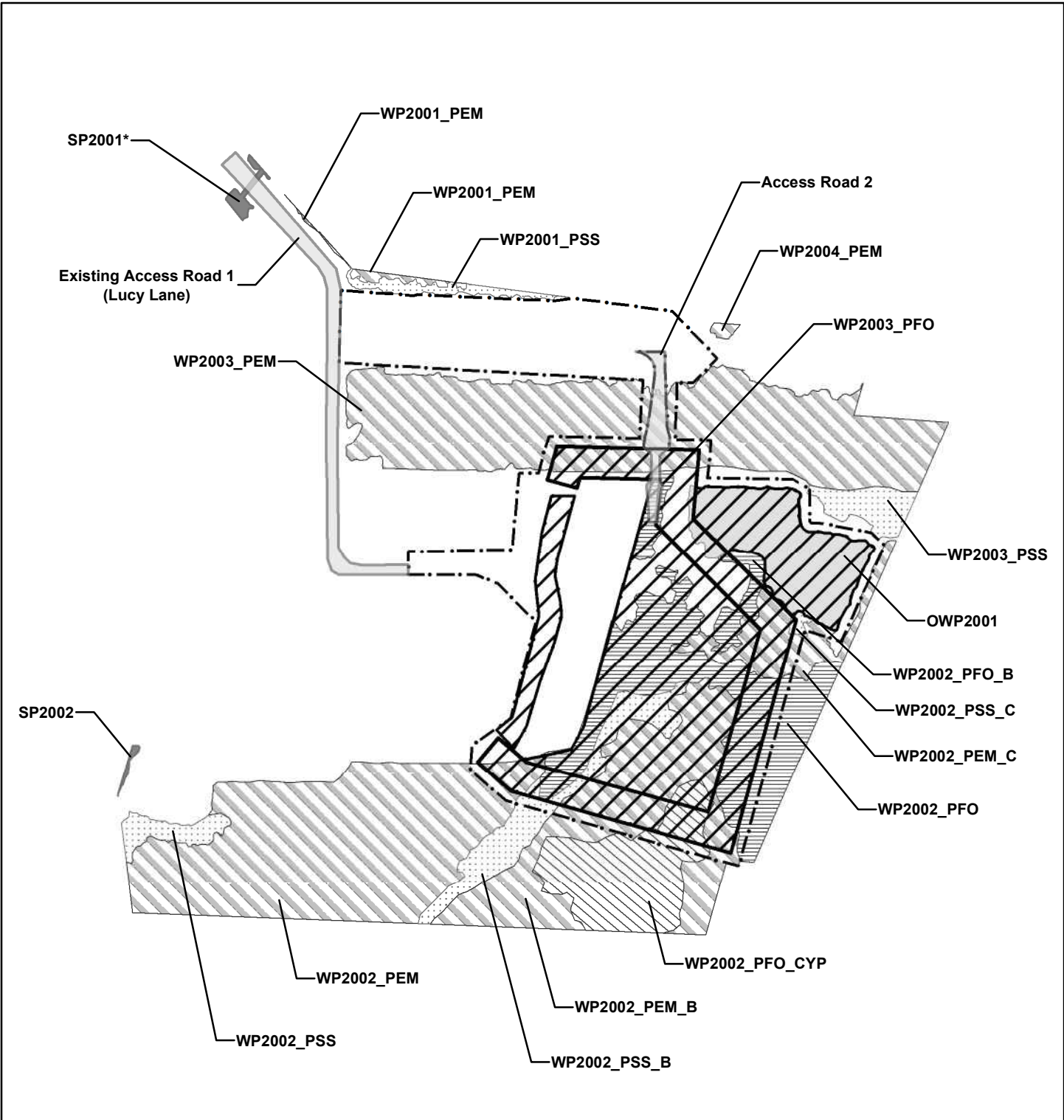
Aerial Map
Louisiana Gulf Enhancement Project
Discovery Producer Services, LLC
Lafourche Parish, Louisiana

Page 1 of 1	Scale: 1:4,800
NAD 83 LA S Ft	Date: November, 2021



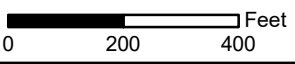
Topographic Map
Louisiana Gulf Enhancement Project
Discovery Producer Services, LLC
Lafourche Parish, Louisiana

Page 1 of 1	Scale: 1:8,000
NAD 83 LA S Ft	Date: November, 2021



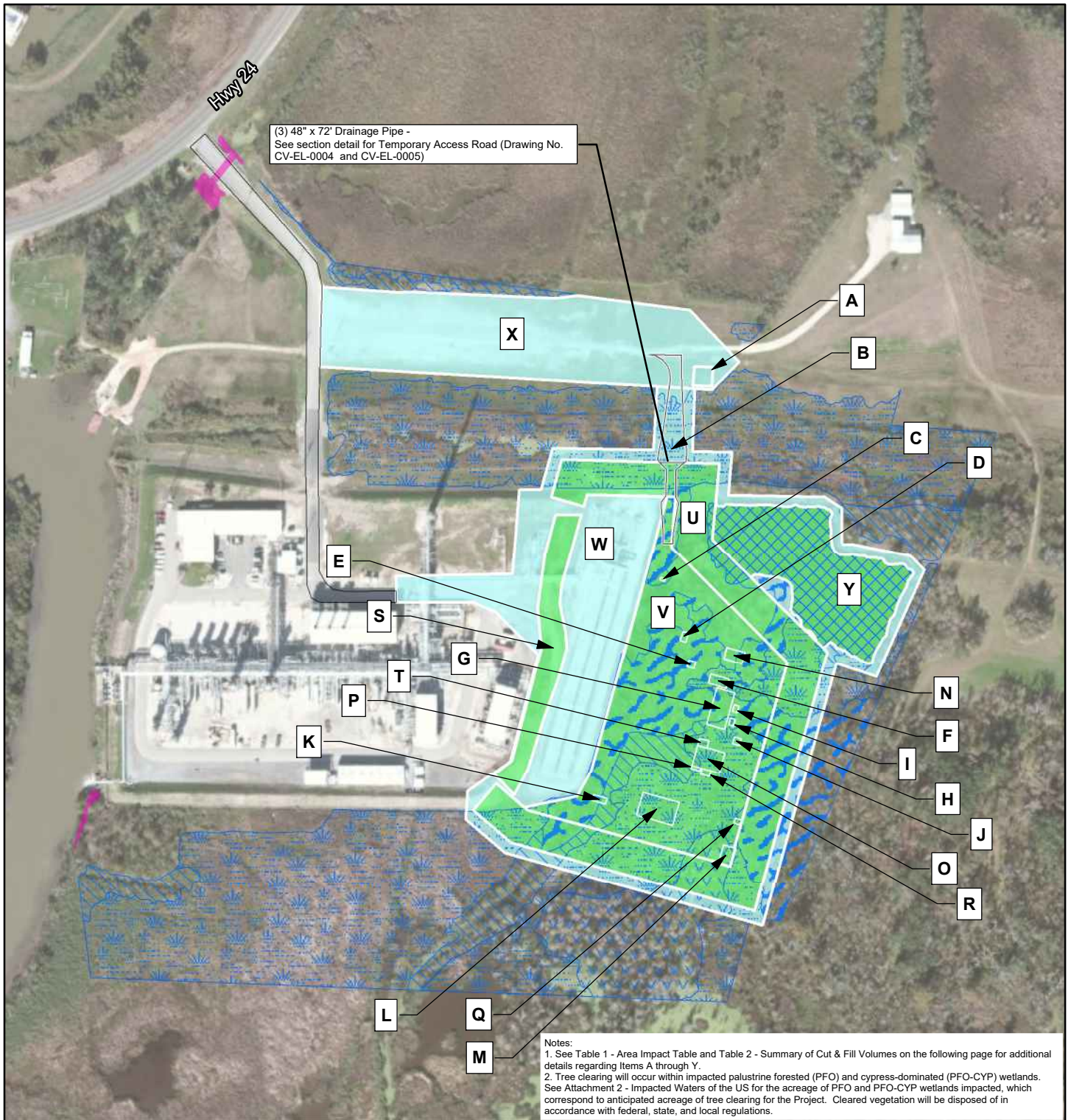
- Open Water
- Stream
- PEM Wetland
- PFO Wetland
- PFO CYP Wetland
- PSS Wetland
- Temporary Access Road
- New Permanent Levee
- Permanent Workspace/Fill
- Temporary Workspace

*Note - SP2001 will be crossed via an existing culvert, thereby avoiding impacts.



Plan View Map
Louisiana Gulf Enhancement Project
Discovery Producer Services, LLC
Lafourche Parish, Louisiana

Page 1 of 1	Scale: 1:4,000
NAD 83 LA S Ft	Date: November, 2021

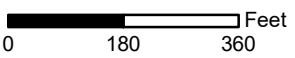


(3) 48" x 72" Drainage Pipe -
See section detail for Temporary Access Road (Drawing No. CV-EL-0004 and CV-EL-0005)

Notes:
1. See Table 1 - Area Impact Table and Table 2 - Summary of Cut & Fill Volumes on the following page for additional details regarding Items A through Y.
2. Tree clearing will occur within impacted palustrine forested (PFO) and cypress-dominated (PFO-CYP) wetlands. See Attachment 2 - Impacted Waters of the US for the acreage of PFO and PFO-CYP wetlands impacted, which correspond to anticipated acreage of tree clearing for the Project. Cleared vegetation will be disposed of in accordance with federal, state, and local regulations.



- Permanent Impact/Fill Area
- Temporary Impact/Fill Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PFO-CYP Wetland
- PSS Wetland



Area of Disturbance
Louisiana Gulf Enhancement Project
Discovery Producer Services, LLC
Lafourche Parish, Louisiana

Page 1 of 1	Scale: 1:3,600
NAD 83 LA S Ft	Date: November 2021

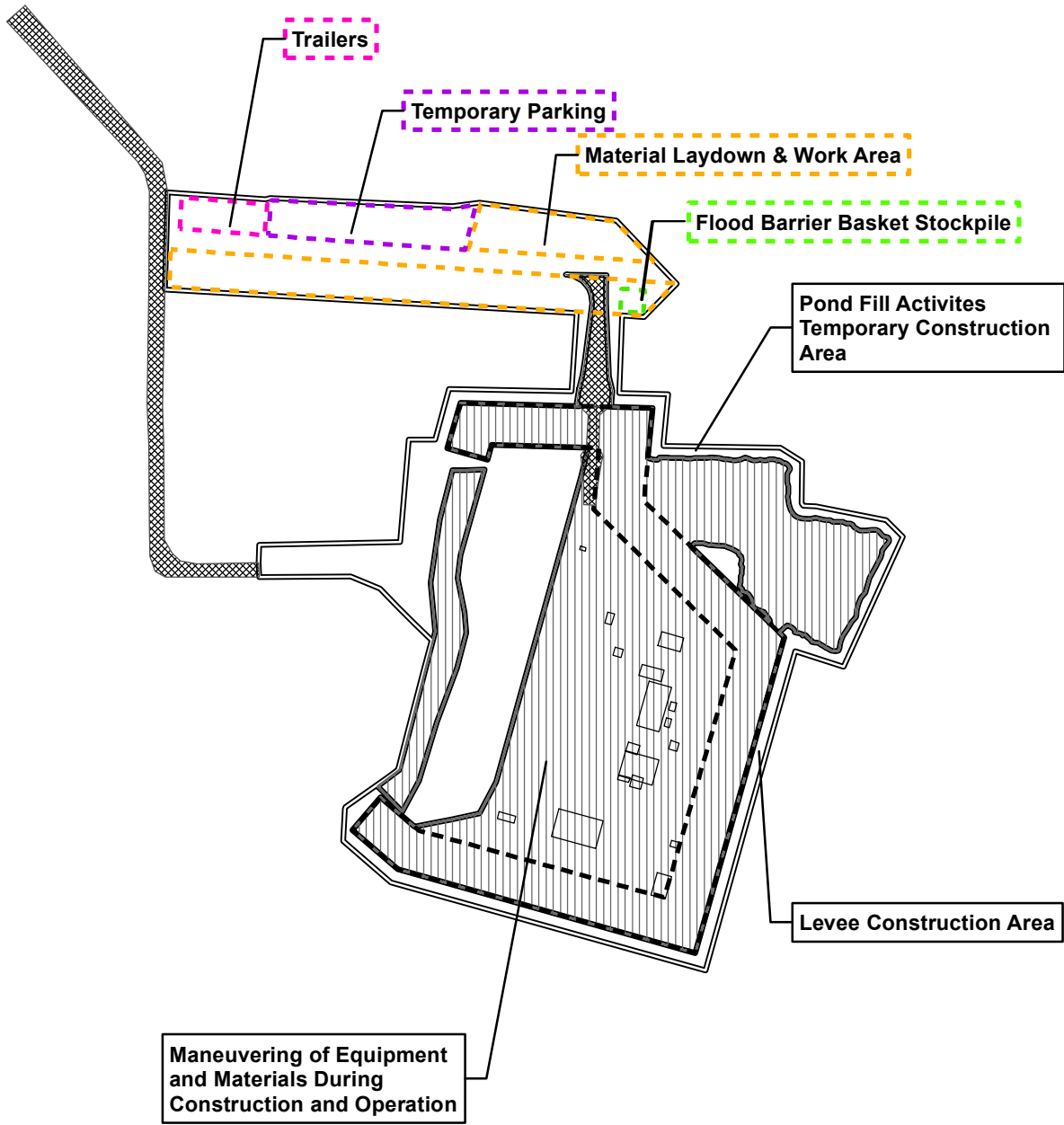
**Table 1
Area Impact Table**

Item	Impact Type	Size	Total Sq Ft	Total Acreage	PEM Wetland Acreage	PSS Wetland Acreage	PFO Wetland Acreage	PFO-CYP Wetland Acreage	Manmade Pond Acreage	Upland Acreage	Comment
A	Temporary	40' x 40'	1,600	0.04	0.00	0.00	0.00	0.00	0.00	0.04	Flood barrier basket stockpile area (5 feet max height)
B	Temporary	Odd Shape	13,532 ^a	0.31 ^a	0.14	0.00	0.09 ^a	0.00	0.00	0.08 ^a	Temporary Access Road (timber matting used as needed)
C - R, T	Permanent	Various	15,012	0.34	0.20	0.01	0.09	0.02	0.00	0.02	Concrete Foundations
S	Permanent	Odd Shape	28,840	0.66	0.00	0.00	0.00	0.00	0.00	0.66	Levee to be Removed-Proposed Gravel
U	Permanent	Odd Shape	143,159	3.29	1.42	0.08	0.83	0.19	0.10	0.67	New Permanent Levee
V	Permanent	Odd Shape	175,420	4.02	1.27	0.39	1.84	0.09	0.00	0.43	New Permanent Workspace
W	Temporary	Odd Shape	204,432	4.69	0.71	0.08	0.08	0.10	0.00	3.72	Temporary Workspace (timber matting used as needed)
X	Temporary	Odd Shape	144,735	3.32	0.00	0.00	0.00	0.00	0.00	3.32	Temporary parking, material laydown & work area, trailers (timber matting used as needed)
Y	Permanent	Odd Shape	72,706	1.67	0.00	0.00	0.00	0.00	1.67	0.00	Permanently fill pond with excavated surface material

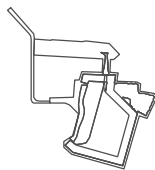
Notes:
PEM – palustrine emergent
PSS – palustrine scrub-shrub
PFO – palustrine forested
PFO-CYP – cypress-dominated PFO
^a The total area presented for the temporary access road is inclusive of the portion of the temporary access road (4,327 square feet; 0.10 acre) that overlaps with the new permanent levee and new permanent workspace. The impact acreage associated with the overlapping portion of the temporary access road is also included in the permanent impacts presented for items V and U, as appropriate.

Table 2
Summary of Cut & Fill Volumes

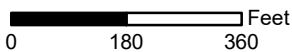
Item	Cut/Fill	Temporary/Permanent	Volume Fill/Cut (Cu Yds)	Comment
A	Fill	Temporary	250	Flood barrier basket stockpile area (topsoil)
B	Fill	Temporary	1,800	Temporary access road - sand, crushed stone/gravel, timber matting used as needed
C - R, T	Fill	Permanent	285	Concrete foundations for equipment at grade
S	Cut	Permanent	5,100	Excavate up to 9 feet of existing levee material (used elsewhere on site in permanent workspace/fill areas) prior to placement of crushed stone/gravel
S	Fill	Permanent	350	Existing levee to be removed - Crushed stone/gravel
U, V	Cut	Permanent	65,000	Excavate 12 to 24 inches of surface material (used to fill manmade pond; excess to be disposed off-site)
U	Fill	Permanent	48,900	New Permanent Levee - topsoil
V	Fill	Permanent	37,100	New Permanent Workspace - Crushed stone/gravel
X	Fill	Temporary	2,100	Temporary parking, material laydown & work area, trailers - Crushed stone/gravel
Y	Fill	Permanent	11,900	Manmade pond - filled with excavated surface material (Item Y)



Notes:
 1. Within the permanent workspace area, only equipment to be installed at grade are shown for clarity. Refer to Table 3 for a complete list of equipment to be installed within the permanent workspace area, including approximate dimensions, anticipated support pile type, and approximate pile count.
 2. Refer to Proposed Piling Map for a depiction of pile location detail.



- Proposed Piles
- ▣ New Permanent Levee
- ▨ Access Road
- ▤ Permanent Workspace/Fill
- ▥ Temporary Workspace/Fill



Workspace Use Map
Louisiana Gulf Enhancement Project
Discovery Producer Services, LLC
Lafourche Parish, Louisiana

Page 1 of 1

Scale: 1:3,600

NAD 83 LA S Ft

Date: November, 2021

Table 3
List of Equipment To Be Installed for the Louisiana Gulf Enhancement Project

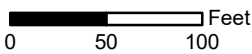
Equipment	Approx. Equipment Dimensions	Elevated/At Grade	Anticipated Pile Type	Approx. Pile Qty
Slug Catcher	455'L x 70'W x 15'H	Elevated	Driven Piles	120
Corrosion Inhibitor Skid	10'L x 6'W x 6'H	At Grade	Helical	4
Slug Catcher Liquid Filters & Strainer Skids	30'Lx12'Wx12'H	At Grade	Helical	8
Stabilizer Condensate Bottoms Cooler	26'x19'x17'	Elevated	Helical	12
Stabilizer Overhead Cooler	25'Lx15'Wx17'H	Elevated	Helical	8
Stabilizer HMO Heater	40'Lx25'Wx33'H	At Grade	Helical	20
Stabilizer Overhead Compressor Bldg	80'Lx40'Wx35'H	At Grade	Driven Piles	50
HMO Expansion Tank/Pump Skid	40'Lx20'Wx18'H	At Grade	Helical	18
Stab Package A Recycle Coolers	15'L x 10'W x 15'H	At Grade	Helical	6
Stab Package B Recycle Coolers	15'L x 10'W x 15'H	At Grade	Helical	6
Stabilizer Tower	20'Lx20'Wx62'H	At Grade	Driven Piles	30
Stabilizer Main Process Module	60'Lx45'Wx30'H	At Grade	Driven Piles	50
Stabilizer Overhead Discharge Separator	10'Lx10'Wx15'H	At Grade	Helical	16
Stabilizer Overhead Discharge Meter	38'Lx8'Wx8'H	Elevated	Helical	12
Stabilizer Feed Separator	8'Wx20'Lx18'H	At Grade	Helical	8
Stormwater Pump P-157A	40'Lx26'W	At Grade	Helical	4
Condensate Storage Tank, Pumps & Containment Area	80'L x 50'W x 35'	At Grade	Helical	16 (Tanks) 20(Pumps/Pipe Supp's)
Condensate Storage Combuster (Package)	15'Lx10'Wx36'H	At Grade	Helical	6
Stabilizer Package Sump Tank(s)	7'Lx7'Wx4'H	4' Below Grade	N/A	0
NGL Meter Skid	38'Lx8'Wx8'H	Elevated	Helical	12
RVP 11 Condensate Meter Skid	38'Lx8'Wx8'H	Elevated	Helical	12
RVP 11 Condensate Filter Skid	21'Lx18'Wx12'H	At Grade	Helical	20

Table 3
List of Equipment To Be Installed for the Louisiana Gulf Enhancement Project

Equipment	Approx. Equipment Dimensions	Elevated/At Grade	Anticipated Pile Type	Approx. Pile Qty
Pipe Rack 1	420'Lx15'Wx20'H	Elevated	Helical	90
Pipe Rack 2	300'Lx15'Wx12'H	Elevated	Helical	70
Pipe Rack 3	150'Lx10'Wx20'H	Elevated	Helical	40
Transformer	15'Lx15'Wx8'H	At Grade	Helical	8
Generator	20'Lx12'Wx10'H	At Grade	Helical	8
PDC Building	45'Lx17'Wx20'H	Elevated	Helical	16
Light Poles	N/A	N/A	Helical	15
Pipe/Tray Supports	N/A	N/A	Helical	50
Total				755



- Proposed Piles
- Permanent Impact/Fill Area
- Temporary Impact/Fill Area



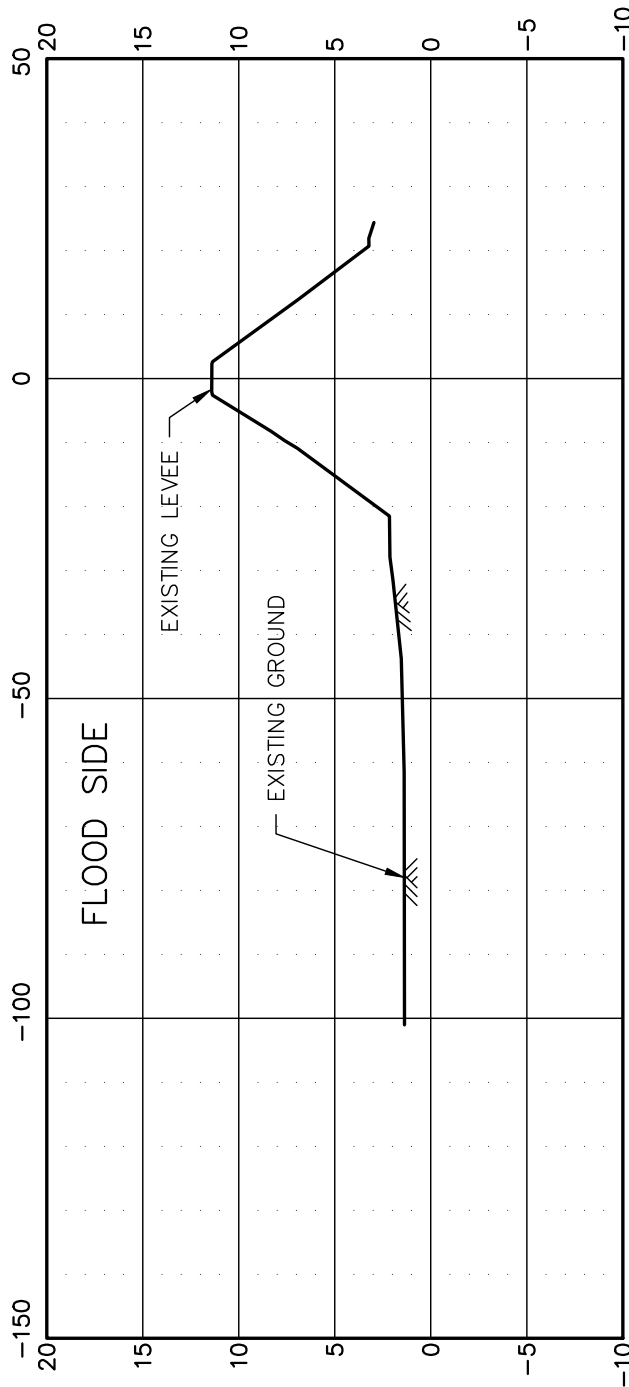
**Proposed Pilings For
Louisiana Gulf Enhancement Project
Discovery Producer Services, LLC
Lafourche Parish, Louisiana**

Page 1 of 1

Scale: 1:1,200

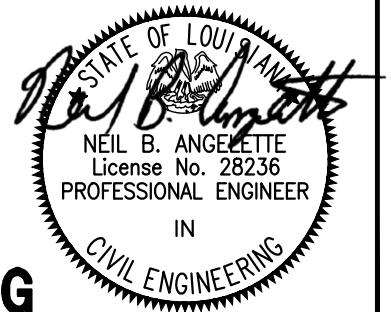
NAD 83 LA S Ft

Date: November 2021



EXISTING LEVEE SECTION

HORIZ. 1" = 30'
VERT. 1" = 10'



ISSUED FOR PERMITTING

NO.	REVISION	DATE
A	ISSUED FOR PERMIT	10-21-21

DISCOVERY PRODUCER SERVICES, LLC

EXISTING LEVEE SECTION

DRAWING NO. LAROSE-CV-EL-0001



Angelette-Picciola
Consulting Engineers & Surveyors

13379 HWY 3235 - LAROSE, LA 70373
P.O. BOX 970 - LAROSE, LA 70373

PHONE: 985-798-7700

www.angelettepicciola.com

DESIGNED BY
N.B.A.

DRAWN BY
A.J.L.

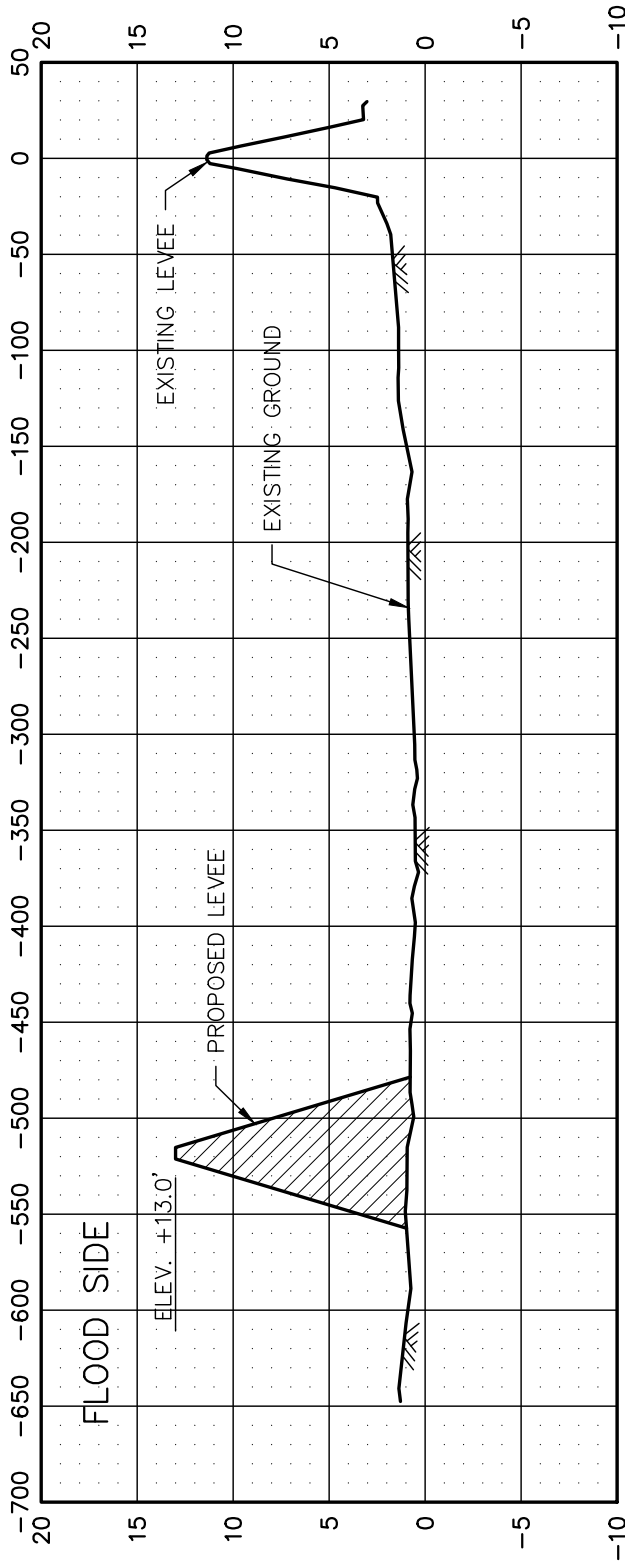
CHECKED BY
S.M.G.

SCALE
SHOWN

DATE
10-21-21

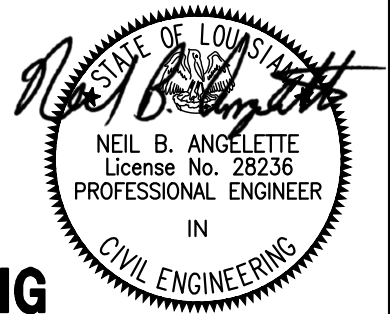
PROJECT
210045

SHEET NO.
1 OF 1



TYPICAL PROPOSED SITE SECTION

HORIZ. 1" = 100'
VERT. 1" = 10'



ISSUED FOR PERMITTING

NO.	REVISION	DATE
A	ISSUED FOR PERMIT	10-21-21

DISCOVERY PRODUCER SERVICES, LLC

TYPICAL PROPOSED SITE SECTION

DRAWING NO. LAROSE-CV-EL-0002



Angelette-Picciola
Consulting Engineers & Surveyors

13379 HWY 3235 - LAROSE, LA 70373
P.O. BOX 970 - LAROSE, LA 70373

PHONE: 985-798-7700

www.angelettepicciola.com

DESIGNED BY
N.B.A.

DRAWN BY
A.J.L.

CHECKED BY
S.M.G.

SCALE
SHOWN

DATE
10-21-21

PROJECT
210045

SHEET NO.
1 OF 1

ELEVATION +13'
(ELEVATION +11.5'; ANTICIPATED
SETTLEMENT OVER 5-7 YEARS)

6'

3

1

PROPOSED GRADE

SUB-GRADE AFTER MUCK
REMOVAL (ELEV. VARIES)

DISTANCE VARIES
(90' TO 105')

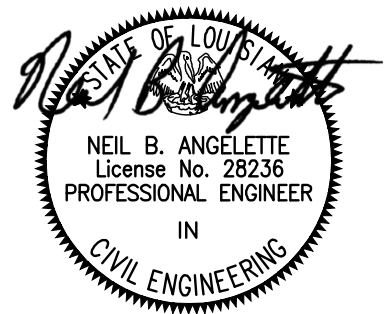
3

1

PROPOSED EMBANKMENT

PROPOSED LEVEE SECTION

SCALE: 1" = 10'



ISSUED FOR PERMITTING

NO.	REVISION	DATE
A	ISSUED FOR PERMIT	10-21-21
B	LEVEE BASE DIMENSION	12-23-21

DISCOVERY PRODUCER SERVICES, LLC

PROPOSED LEVEE SECTION

DRAWING NO. LAROSE-CV-EL-0003



Angelette-Picciola
Consulting Engineers & Surveyors

13379 HWY 3235 - LAROSE, LA 70373
P.O. BOX 970 - LAROSE, LA 70373

PHONE: 985-798-7700

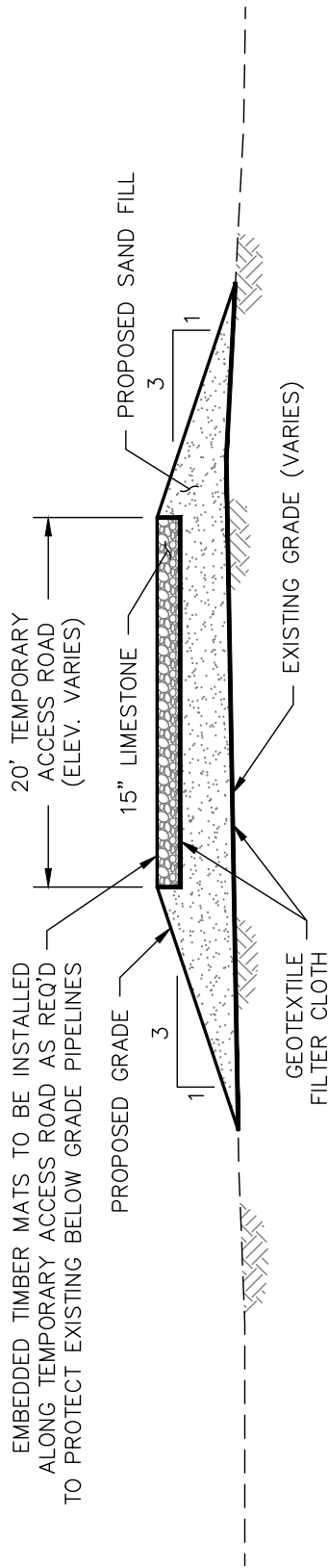
www.angelettepicciola.com

DESIGNED BY
N.B.A.

DRAWN BY
A.J.L.

CHECKED BY
S.M.G.

SCALE SHOWN	
DATE	10-21-21
PROJECT	210045
SHEET NO.	1 OF 1



EMBEDDED TIMBER MATS TO BE INSTALLED ALONG TEMPORARY ACCESS ROAD AS REQ'D TO PROTECT EXISTING BELOW GRADE PIPELINES

20' TEMPORARY ACCESS ROAD (ELEV. VARIES)

15" LIMESTONE

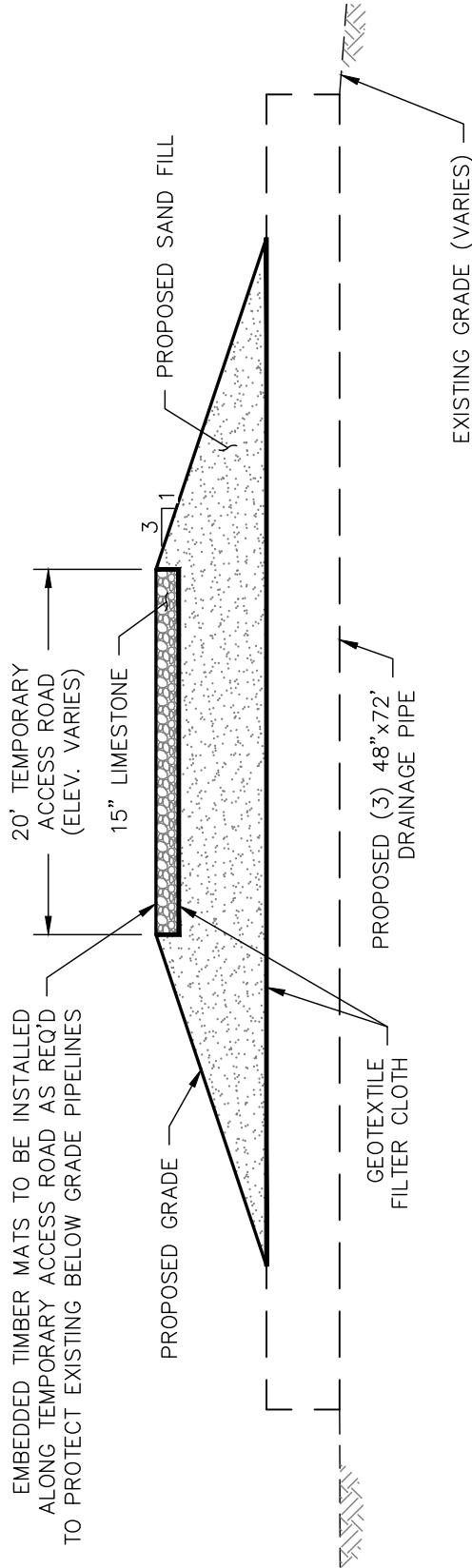
PROPOSED GRADE

EXISTING GRADE (VARIES)

GEOTEXTILE FILTER CLOTH

TEMPORARY ACCESS ROAD SECTION

SCALE: 1" = 10'



EMBEDDED TIMBER MATS TO BE INSTALLED ALONG TEMPORARY ACCESS ROAD AS REQ'D TO PROTECT EXISTING BELOW GRADE PIPELINES

20' TEMPORARY ACCESS ROAD (ELEV. VARIES)

15" LIMESTONE

PROPOSED GRADE

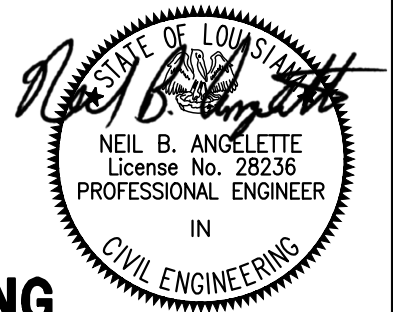
GEOTEXTILE FILTER CLOTH

PROPOSED (3) 48" x 72" DRAINAGE PIPE

EXISTING GRADE (VARIES)

TEMPORARY ACCESS ROAD SECTION AT DRAINAGE PIPE CROSSING

SCALE: 1" = 10'



ISSUED FOR PERMITTING

NO.	REVISION	DATE
A	ISSUED FOR PERMIT	10-21-21

DISCOVERY PRODUCER SERVICES, LLC

TEMPORARY ACCESS ROAD SECTIONS

DRAWING NO. LAROSE-CV-EL-0004



Angelette-Picciola
Consulting Engineers & Surveyors

13379 HWY 3235 - LAROSE, LA 70373
P.O. BOX 970 - LAROSE, LA 70373

PHONE: 985-798-7700

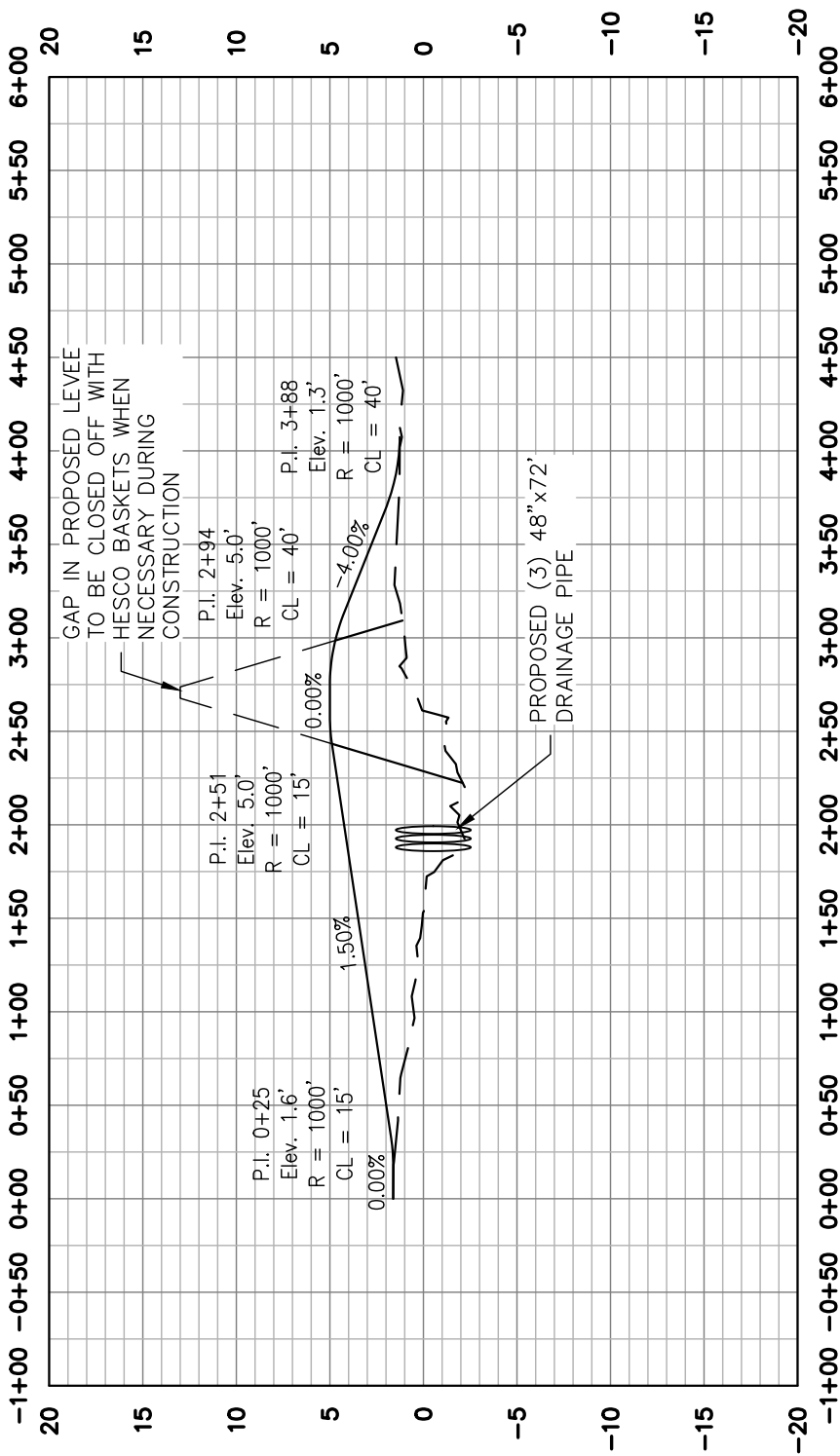
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N.B.A.

DRAWN BY
A.J.L.

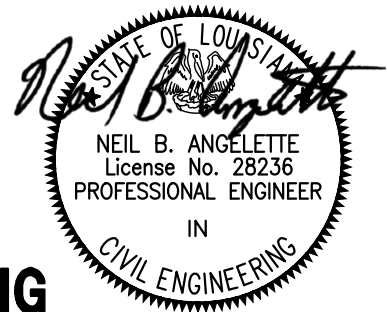
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S.M.G.

SCALE SHOWN	
DATE	10-21-21
PROJECT	210045
SHEET NO.	1 OF 1



TEMPORARY ACCESS ROAD PROFILE

HORIZ: 1" = 100'
VERT: 1" = 10'



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DISCOVERY PRODUCER SERVICES, LLC
TEMPORARY ACCESS ROAD PROFILE
DRAWING NO. LAROSE-CV-EL-0005



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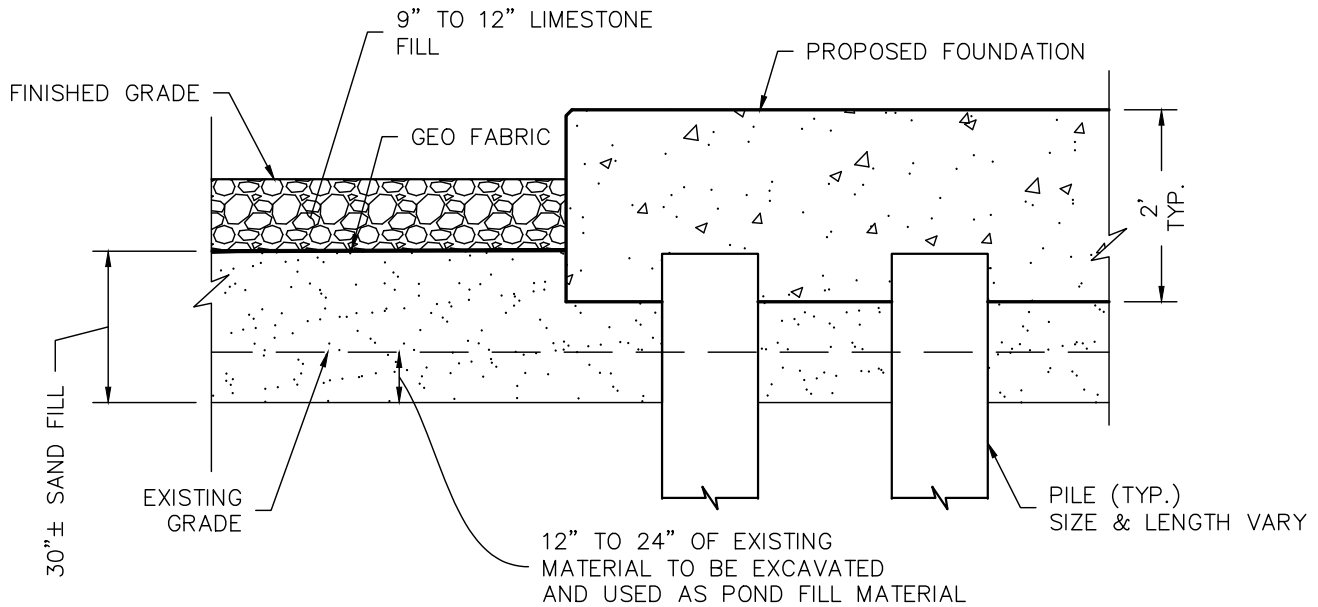
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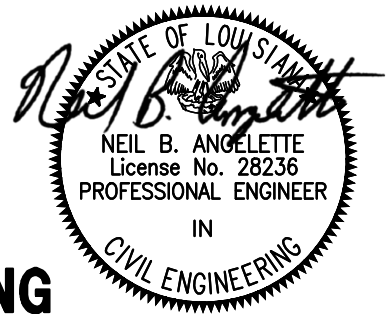
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SCALE SHOWN
DATE 10-21-21
PROJECT 210045
SHEET NO. 1 OF 1



TYPICAL FOUNDATION/SITE SECTION

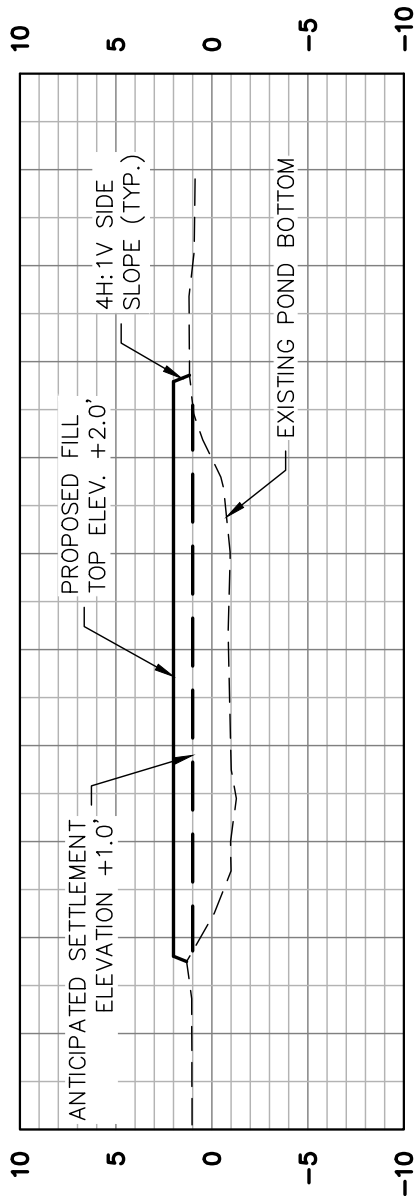
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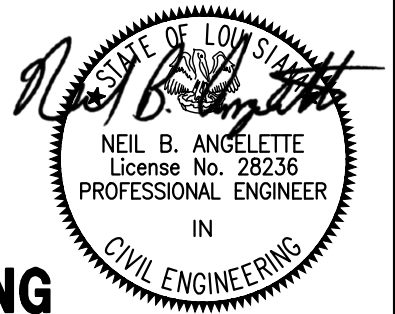
NO.	REVISION	DATE
A	ISSUED FOR PERMIT	10-21-21

<p style="text-align: center;">DISCOVERY PRODUCER SERVICES, LLC</p> <p>TYPICAL FOUNDATION/SITE SECTION</p> <p>DRAWING NO. LAROSE-CV-EL-0006</p>	<p>Angelette-Picciola Consulting Engineers & Surveyors</p> <p>13379 HWY 3235 - LAROSE, LA 70373 P.O. BOX 970 - LAROSE, LA 70373</p> <p>PHONE: 985-798-7700 www.angelettepicciola.com</p>	<p>SCALE SHOWN</p> <p>DATE</p> <p>PROJECT</p> <p>SHEET NO.</p>		
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TYPICAL POND FILL CROSS SECTION

HORIZ. 1" = 100'
VERT. 1" = 10'



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NO.	REVISION	DATE
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DISCOVERY PRODUCER SERVICES, LLC
TYPICAL POND FILL CROSS SECTION
DRAWING NO. LAROSE-CV-EL-0007



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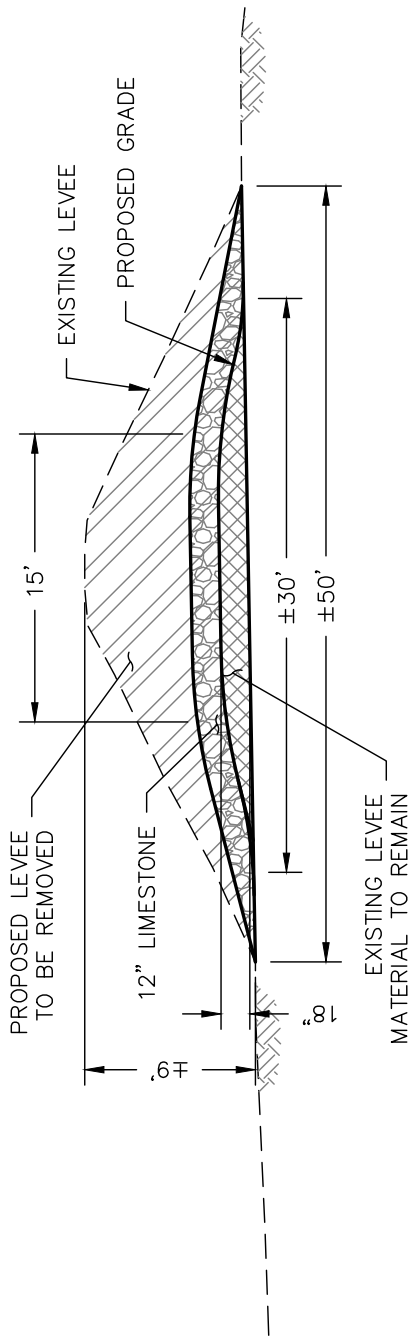
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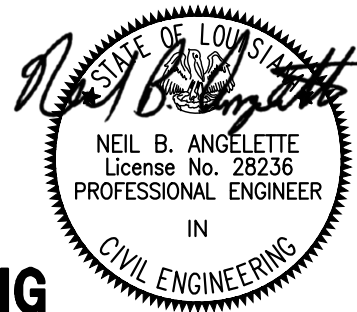
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S.M.G.

SCALE SHOWN
DATE 10-21-21
PROJECT 210045
SHEET NO. 1 OF 1



**TYPICAL SECTION OF EXISTING
LEVEE TO BE REMOVED**

SCALE: 1" = 10'



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NO.	REVISION	DATE
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DISCOVERY PRODUCER SERVICES, LLC

TYPICAL SECTION OF EXISTING LEVEE TO BE REMOVED
DRAWING NO. LAROSE-CV-EL-0008



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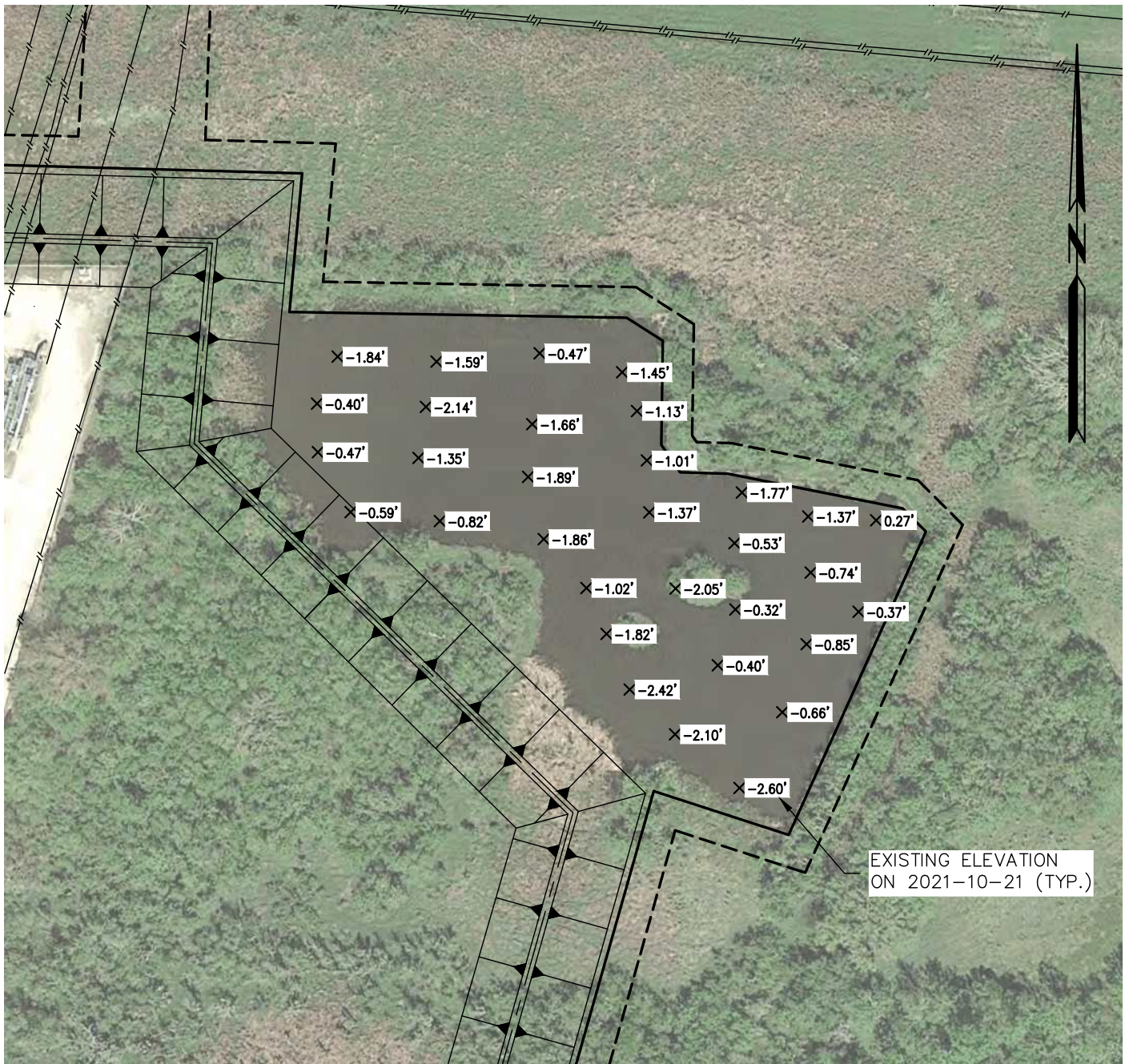
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SCALE
SHOWN

DATE
10-21-21

PROJECT
210045

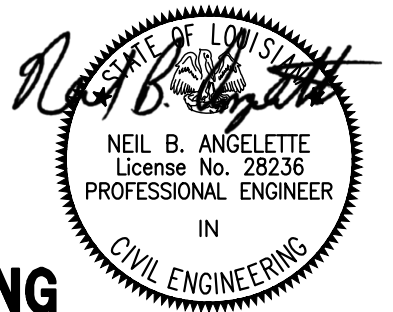
SHEET NO.
1 OF 1



SITE PLAN

SCALE: 1" = 100'

SCALE: 1" = 100'



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DISCOVERY PRODUCER SERVICES, LLC

SITE PLAN SHOWING POND ELEVATIONS FROM 2021-10-21 SURVEY.

DRAWING NO. LAROSE-CV-PL-0001



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Consulting Engineers & Surveyors

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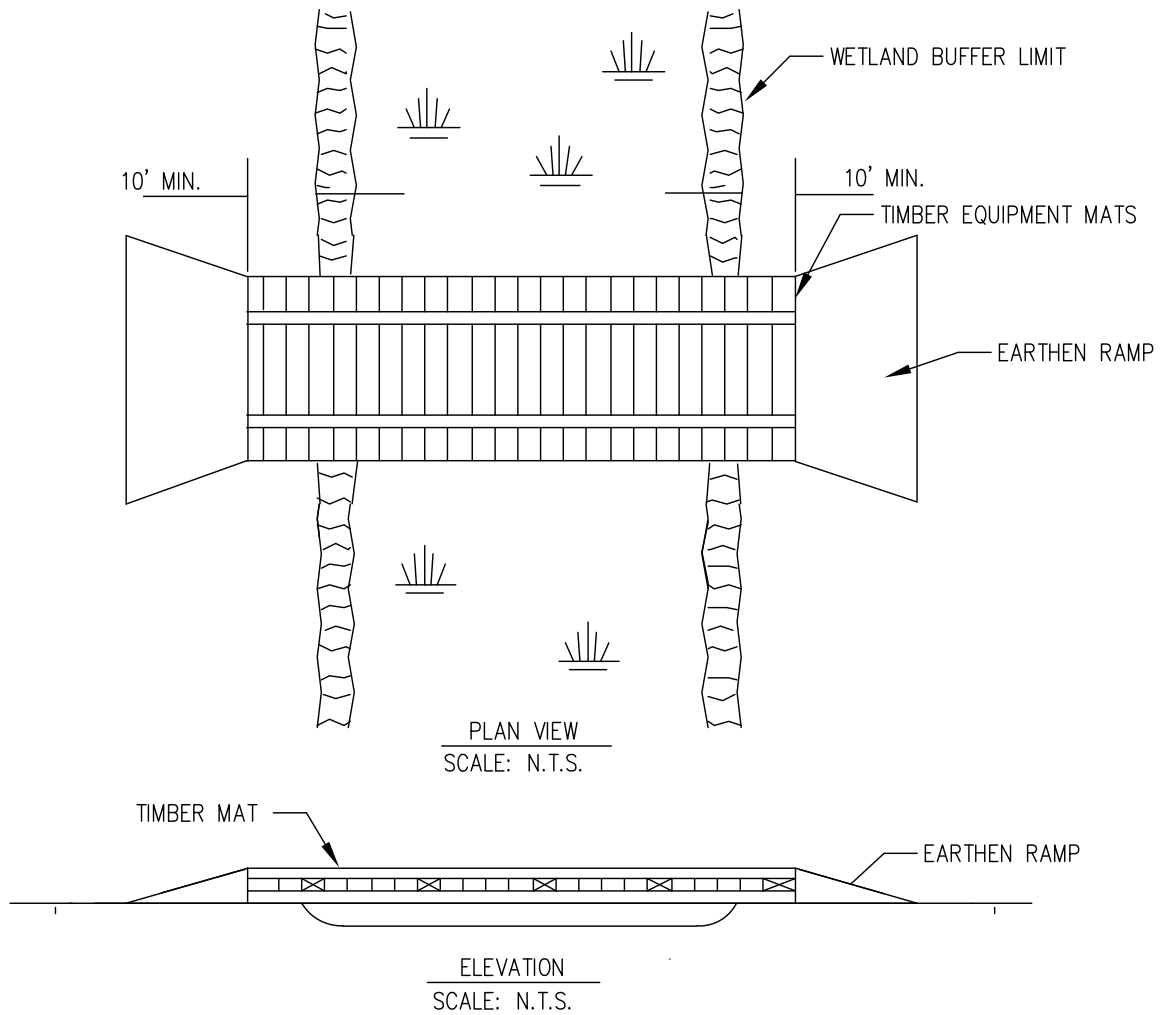
CHECKED BY
N.B.A.

SCALE
1" = 100'

DATE
10-21-21

PROJECT
210045

SHEET NO.
1 OF 1



NOTES:

1. PERIODICALLY CHECK INSTALLATION AND REMOVE BUILD-UP OF SEDIMENT OR DEBRIS.
2. MATERIALS PLACED IN WETLANDS SHALL BE COMPLETELY REMOVED DURING FINAL CLEAN-UP. REMOVAL OF THIS STRUCTURE IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.
3. IF A WATERBODY IS LOCATED WITHIN A WETLAND SYSTEM, EXTEND TIMBER EQUIPMENT MATS TO THE BRIDGE EQUIPMENT CROSSING (BEC) USED TO CROSS THE WATERBODY IN ORDER TO ALLOW FOR CONTINUOUS TIMBER EQUIPMENT MAT COVERAGE THROUGH THE WETLAND AND WATERBODY AREA.
4. USE ADDITIONAL TIMBER MAT LAYERS TO RAISE CROSSING ABOVE GRADE WHERE POOR SOIL CONDITIONS EXIST.
5. TIMBER EQUIPMENT MATS SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE OF THE WETLAND BOUNDARIES.
6. INSTALL EARTHEN RAMP APPROACHES TO TIMBER EQUIPMENT MATS. EARTHEN RAMPS TO BE CONSTRUCTED OF UPLAND MATERIAL, TOP SOIL SHALL NOT BE USED TO CONSTRUCT EARTHEN RAMPS.

WETLAND EQUIPMENT CROSSING

TEMPORARY EROSION CONTROL MEASURE

WEC

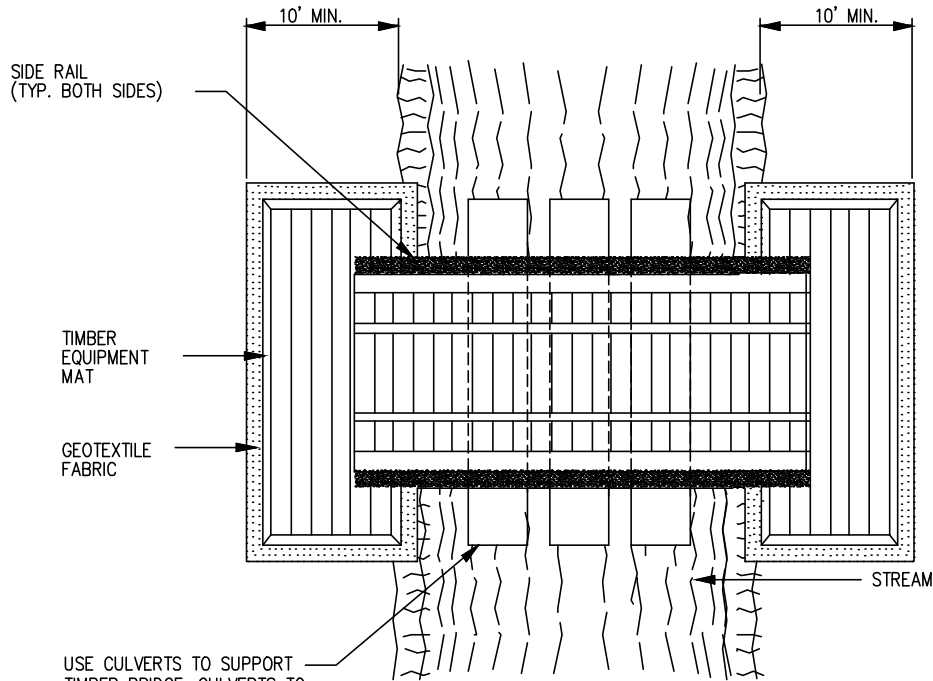
LOUISIANA

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DISCOVERY PRODUCER SERVICES, LLC
STANDARD ENVIRONMENTAL DETAIL
WETLAND EQUIPMENT CROSSING

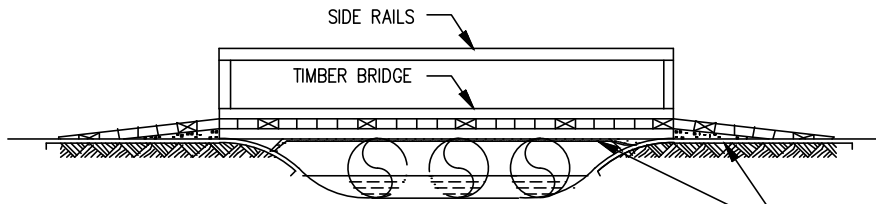
WEC





USE CULVERTS TO SUPPORT
TIMBER BRIDGE. CULVERTS TO
CONSIST OF CLEAN USED PIPE
FREE OF DENTS, HOLES AND RUST.

PLAN VIEW
SCALE: N.T.S.



PROFILE
SCALE: N.T.S.

GEOTEXTILE FABRIC TO BE
PLACED BENEATH BRIDGE
APPROACHES AND EXTEND
UNDER TIMBER BRIDGE.

NOTES:

1. TIMBER BRIDGES SHALL BE ADEQUATELY ANCHORED AT BOTH ENDS.
2. PERIODICALLY CHECK BRIDGE INSTALLATION AND REMOVE BUILD-UP OF SEDIMENT OR DEBRIS ON BRIDGE.
3. BRIDGE APPROACHES SHALL BE TIMBER EQUIPMENT MATS.
4. MATERIALS PLACED ALONG STREAM CHANNEL SHALL BE COMPLETELY REMOVED DURING FINAL CLEAN-UP. REMOVAL OF THIS STRUCTURE IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.
5. CULVERTS SHALL BE USED TO SUPPORT THE TIMBER BRIDGE TO PREVENT SETTLEMENT OF THE BRIDGE, IF THE GEOMETRY OF THE STREAM ALLOWS FOR SUCH INSTALLATION. THE TIMBER BRIDGE AND GEOTEXTILE FABRIC SHALL REMAIN ABOVE THE WATER SURFACE ELEVATION AT ALL TIMES.
6. SIDE RAILS SHALL BE INSTALLED ON BOTH SIDES OF THE BRIDGE EQUIPMENT CROSSING IN ORDER TO PREVENT SEDIMENT FROM ENTERING THE WATERBODY. SIDE RAILS TO BE CONSTRUCTED OF PLYWOOD NAILED TO THE OUTER EDGES OF THE TIMBER EQUIPMENT MATS.
7. TIMBER EQUIPMENT MATS SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE OF THE WATERBODY OR WETLAND BOUNDARIES.

BRIDGE EQUIPMENT CROSSING

TEMPORARY EROSION CONTROL MEASURE
UNLESS OTHERWISE INDICATED ON PLAN, CROSSING SHALL
BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

BEC

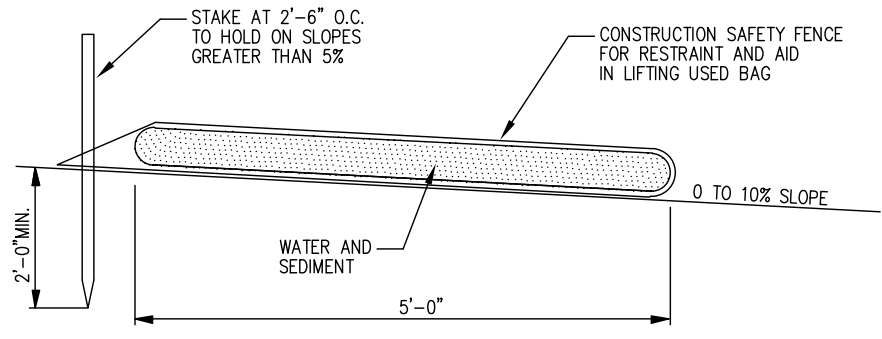
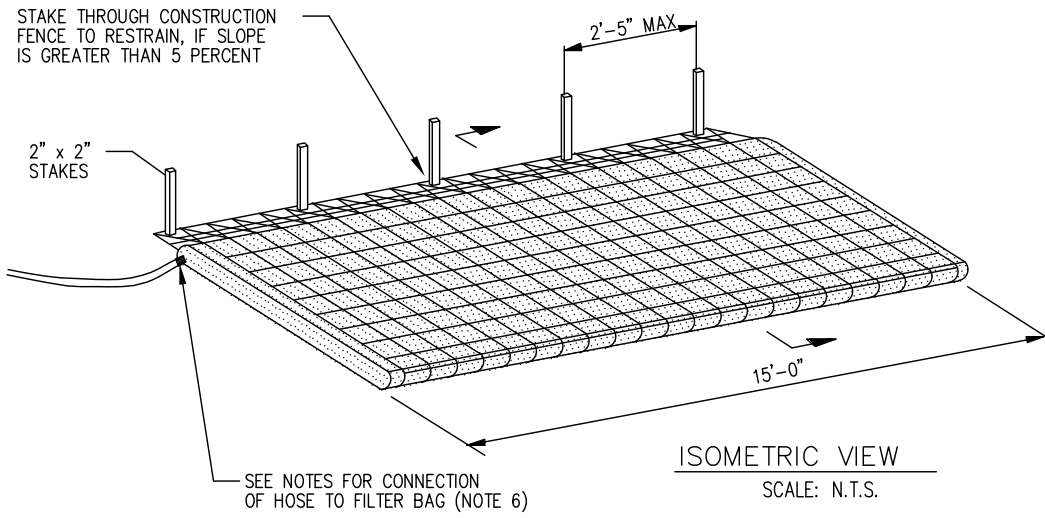
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DISCOVERY PRODUCER SERVICES, LLC
STANDARD ENVIRONMENTAL DETAIL
BRIDGE EQUIPMENT CROSSING

BEC





SECTION
SCALE: N.T.S.

NOTES:

1. FILTER BAG SHALL BE PLACED ON A SLOPING OR LEVEL, WELL VEGETATED SITE SUCH THAT WATER WILL FLOW AWAY FROM DEVICE AND ANY WORK AREAS.
2. THE FILTER BAG MUST BE STAKED IN PLACE IF THE FILTER BAG IS PLACED ON A SLOPE GREATER THAN 5 PERCENT.
3. FILTER BAG SHALL NOT BE USED FOR DISCHARGE FLOWS GREATER THAN 300 GPM.
4. CONTRACTOR SHALL PROPERLY REMOVE AND PROPERLY DISPOSE OF USED FILTER BAGS IMMEDIATELY UPON COMPLETION OF DEWATERING OPERATIONS. UNDER NO CIRCUMSTANCES SHALL USED FILTER BAGS BE LEFT IN PLACE FOR A PERIOD OF TIME GREATER THAN 48 HOURS AFTER DEWATERING OPERATIONS ARE COMPLETE.
5. SEDIMENT FROM BAG SHALL BE SPREAD IN AN UPLAND AREA WITHIN THE CONSTRUCTION CORRIDOR AND THE AREA SHALL BE STABILIZED AND REVEGETATED.
6. TO ATTACH HOSE, CUT OPEN CORNER OF FILTER BAG, GATHER UP MATERIAL AND CLAMP TO A SHORT SECTION OF STEEL PIPE. CLAMP HOSE TO OTHER END OF PIPE. BOTH CONNECTIONS SHALL BE WATERTIGHT.
7. CONTRACTOR SHALL ONLY INSTALL ONE DEWATERING HOSE PER FILTER BAG.

FILTER BAG
TEMPORARY EROSION CONTROL MEASURE FB

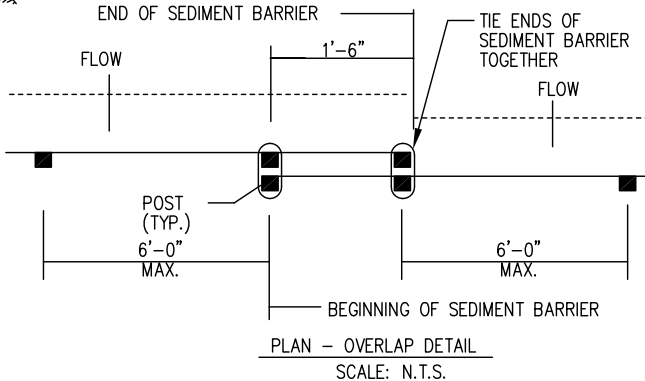
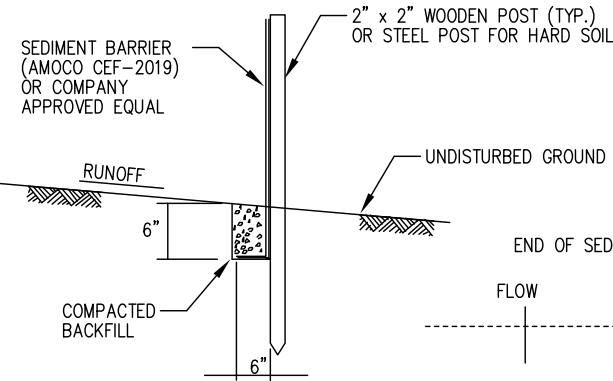
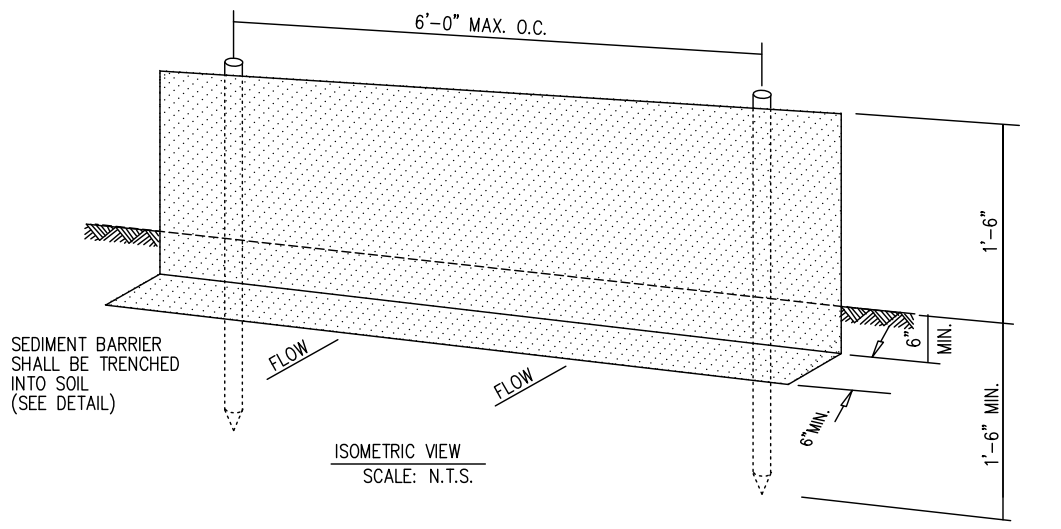
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NO.	DATE	REVISION DESCRIPTION	CHK.	APP.

DISCOVERY PRODUCER SERVICES, LLC
STANDARD ENVIRONMENTAL DETAIL

FB FILTER BAG





NOTES:

1. SEDIMENT BARRIER SHALL BE INSTALLED TO FILTER SEDIMENT FROM SURFACE RUNOFF.
2. INSTALLATIONS SHALL BE PERIODICALLY CHECKED, THE SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SEDIMENT BARRIER.
3. SEDIMENT BARRIER SHALL BE LEFT IN PLACE UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
4. SEDIMENT BARRIER SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE SEDIMENT BARRIER.
5. AREA DISTURBED AS A RESULT OF REMOVING THE SEDIMENT BARRIER SHALL BE RESTABILIZED BY BACKFILLING, COMPACTING, AND SEEDING IN ACCORDANCE WITH THE REVEGETATION PLAN.
6. SEDIMENT BARRIER SHALL BE PLACED TO FOLLOW (RUN PARALLEL TO) THE CONTOURS.
7. ON UP SLOPE INSTALLATIONS, BOTH ENDS OF THE SEDIMENT BARRIER SHALL BE TURNED AND EXTENDED UP SLOPE.
8. SEDIMENT BARRIER SHALL BE CONSTRUCTED OF AMOCO CEF-2019 FABRIC OR A SIMILAR COMPANY APPROVED FABRIC WITH A TENSILE STRENGTH OF 50 LB./LINEAR INCH AT 20% (MAX.) ELONGATION.

SEDIMENT BARRIER
TEMPORARY EROSION CONTROL MEASURE

SB

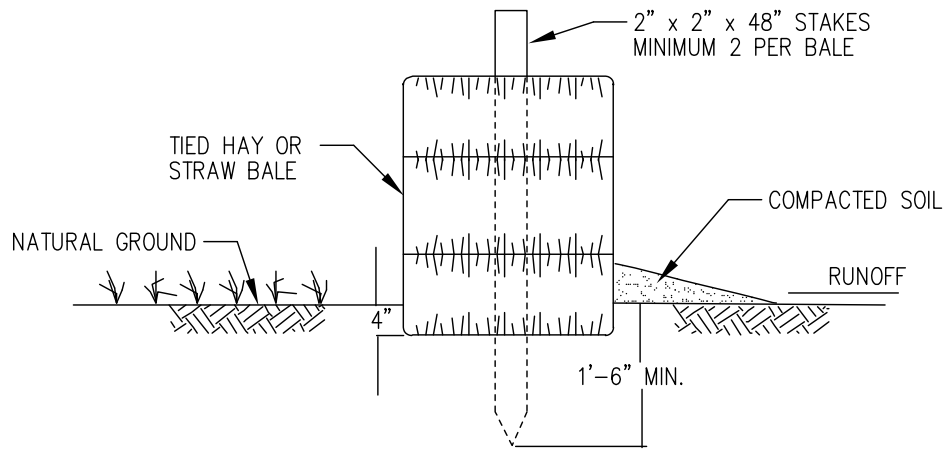
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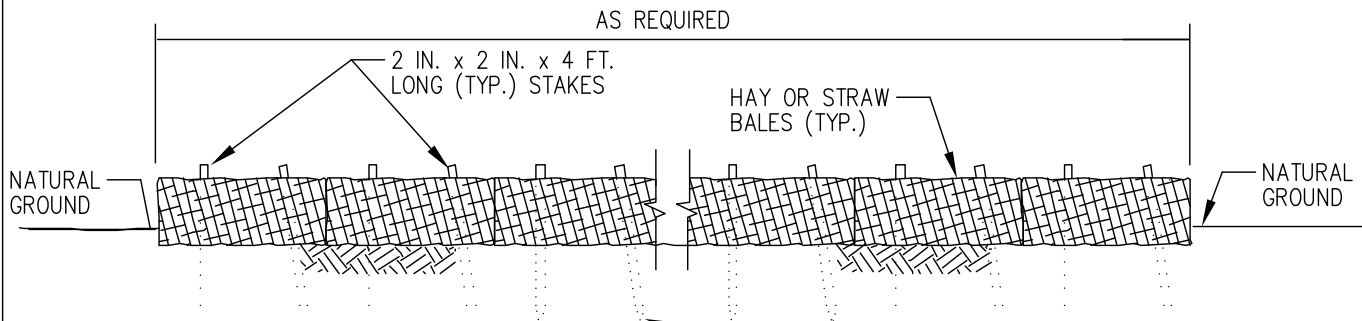
DISCOVERY PRODUCER SERVICES, LLC
STANDARD ENVIRONMENTAL DETAIL

SB SEDIMENT BARRIER





SECTION
SCALE: N.T.S.



ELEVATION
SCALE: N.T.S.

NOTES:

1. TO ELIMINATE POSSIBLE END FLOW, BOTH ENDS OF THE STRAW BALE BARRIER SHOULD BE TURNED AND EXTENDED UPSLOPE.
2. EACH BALE SHOULD BE SECURED BY AT LEAST TWO (2) STAKES. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. ANY GAPS CAN BE FILLED IN BY WEDGING LOOSE STRAW BETWEEN THE BALES. STAKES SHOULD BE DRIVEN A MINIMUM OF 18 INCHES INTO THE GROUND.
3. COMPACT EXCAVATED SOIL AS NECESSARY AGAINST THE UPHILL SIDE OF THE BARRIER TO PREVENT WATER TUNNELING UNDER THE BALES.
4. STRAW AND HAY BALE BARRIERS REQUIRE CONTINUAL MAINTENANCE TO REMOVE COLLECTED SEDIMENT AND REPLACE DAMAGED BALES. CLOSE ATTENTION SHOULD BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES. BALE BARRIERS SHOULD NOT BE USED MORE THAN 3 MONTHS.
5. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

STRAW BALE BARRIER
TEMPORARY EROSION CONTROL MEASURE

SBB

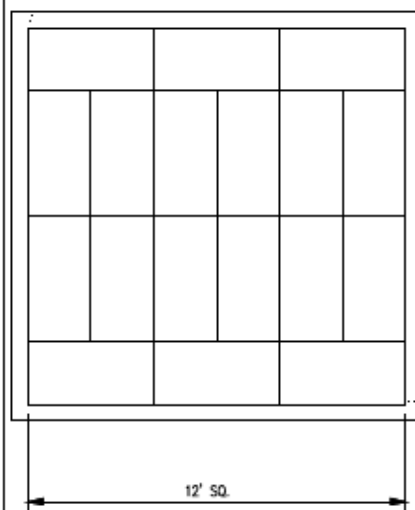
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DISCOVERY PRODUCER SERVICES, LLC
STANDARD ENVIRONMENTAL DETAIL
STRAW BALE BARRIER

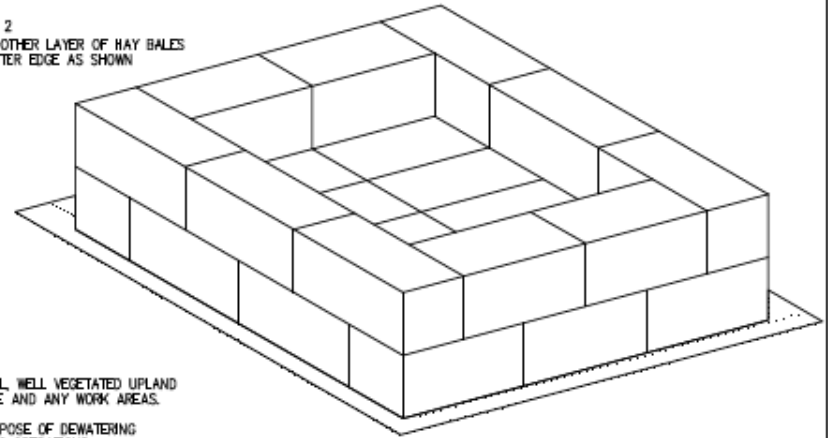


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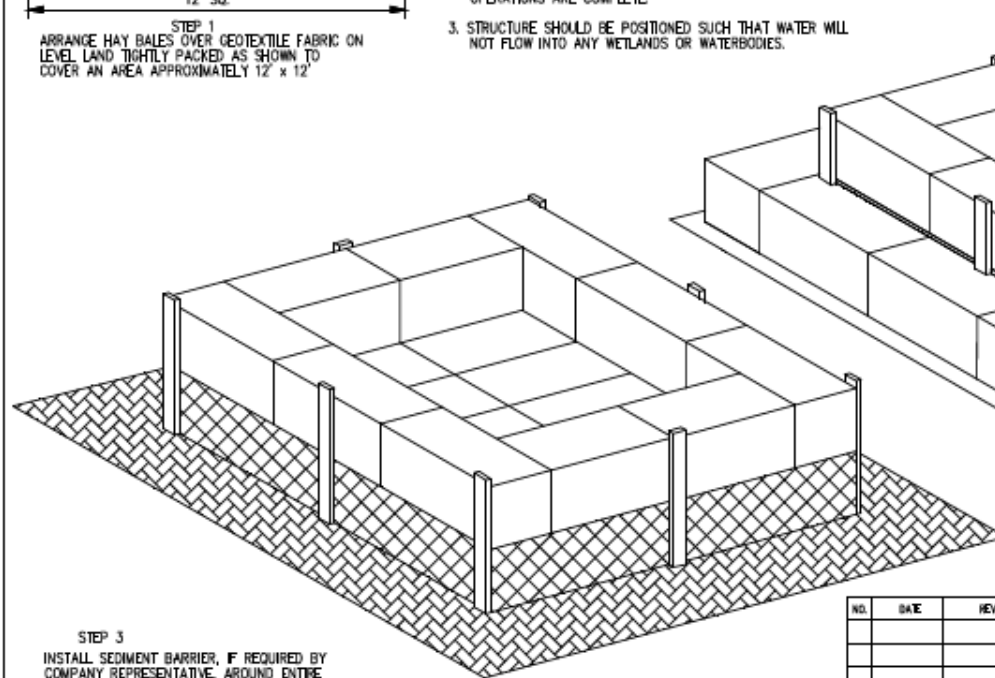
STEP 1
ARRANGE HAY BALES OVER GEOTEXTILE FABRIC ON LEVEL LAND TIGHTLY PACKED AS SHOWN TO COVER AN AREA APPROXIMATELY 12' x 12'

STEP 2
INSTALL ANOTHER LAYER OF HAY BALES ON THE OUTER EDGE AS SHOWN

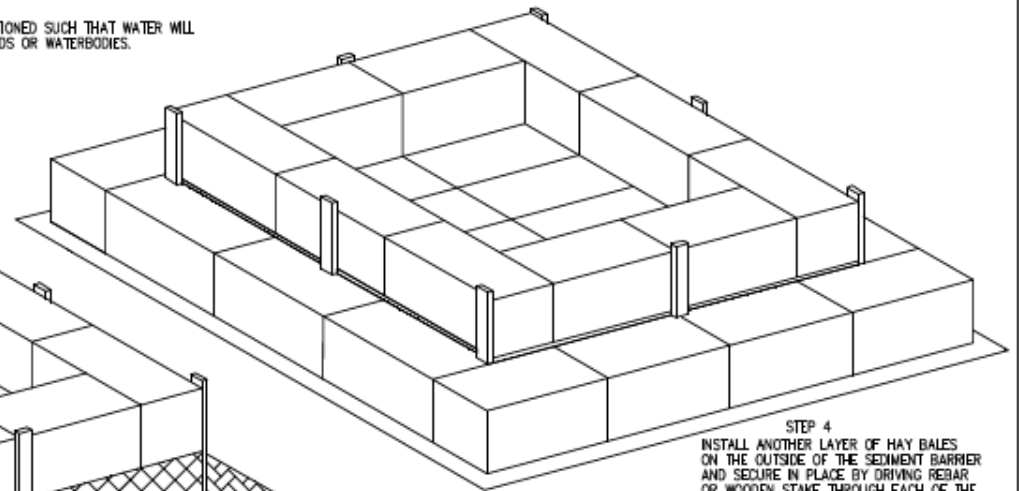


NOTES:

1. WHERE POSSIBLE STRUCTURE SHALL BE PLACED ON A LEVEL, WELL VEGETATED UPLAND SITE SUCH THAT WATER WILL FLOW AWAY FROM STRUCTURE AND ANY WORK AREAS.
2. CONTRACTOR SHALL PROPERLY REMOVE AND PROPERLY DISPOSE OF DEWATERING STRUCTURE IMMEDIATELY UPON COMPLETION OF DEWATERING OPERATIONS. UNDER NO CIRCUMSTANCES SHALL USED DEWATERING STRUCTURES BE LEFT IN PLACE FOR A PERIOD OF TIME GREATER THAN 48 HOURS AFTER DEWATERING OPERATIONS ARE COMPLETE.
3. STRUCTURE SHOULD BE POSITIONED SUCH THAT WATER WILL NOT FLOW INTO ANY WETLANDS OR WATERBODIES.



STEP 3
INSTALL SEDIMENT BARRIER, IF REQUIRED BY COMPANY REPRESENTATIVE, AROUND ENTIRE HAY BALE STRUCTURE AS SHOWN.



STEP 4
INSTALL ANOTHER LAYER OF HAY BALES ON THE OUTSIDE OF THE SEDIMENT BARRIER AND SECURE IN PLACE BY DRIVING REBAR OR WOODEN STAKE THROUGH EACH OF THE OUTER HAY BALES. (STAKES NOT SHOWN FOR CLARITY PURPOSES)

DEWATERING STRUCTURE

TEMPORARY EROSION CONTROL MEASURE

05-1

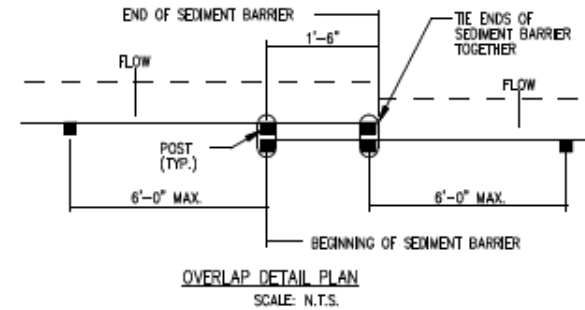
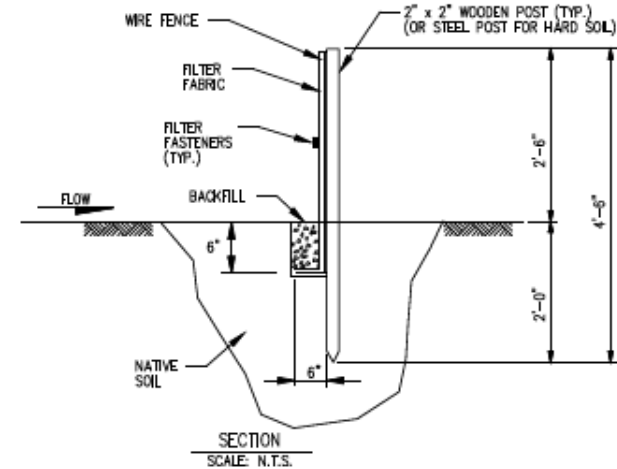
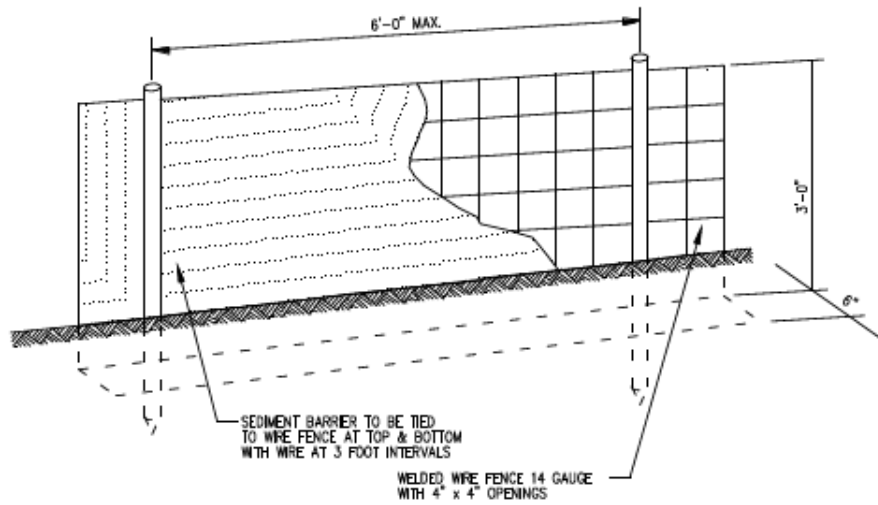
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DISCOVERY PRODUCER SERVICES, LLC
DEWATERING STRUCTURE

05-1





NOTES:

1. REINFORCED SEDIMENT BARRIER SHALL BE INSTALLED TO FILTER SEDIMENT IN AREAS WHERE EXCESSIVE SLOPE RENDERS STANDARD SEDIMENT BARRIER INEFFECTIVE.
2. INSTALLATIONS SHALL BE PERIODICALLY CHECKED, THE SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE FABRIC FENCE.
3. REINFORCED SEDIMENT BARRIER SHALL BE LEFT IN PLACE UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
4. REINFORCED SEDIMENT BARRIER SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE REINFORCED SEDIMENT BARRIER.
5. AREA DISTURBED AS A RESULT OF REMOVING THE REINFORCED SEDIMENT BARRIER SHALL BE RESTABILIZED BY SEEDING IN ACCORDANCE WITH THE REVEGETATION PLAN.
6. REINFORCED SEDIMENT BARRIER SHALL BE PLACED TO FOLLOW (RUN PARALLEL TO) THE CONTOURS.
7. ON UPSLOPE INSTALLATIONS, BOTH ENDS OF THE REINFORCED SEDIMENT BARRIER SHALL BE TURNED AND EXTENDED UPSLOPE.

REINFORCED SEDIMENT BARRIER
TEMPORARY EROSION CONTROL MEASURE

RSB

LOUISIANA

NO.	DATE	REVISION DESCRIPTION	CHK.	APP.

DISCOVERY PRODUCER SERVICES, LLC
REINFORCED SEDIMENT BARRIER

RSB

