

PUBLIC NOTICE

March 14, 2022

United States Army
Corps of Engineers
New Orleans District
Regulatory Division (RGE)
7400 Leake Avenue
New Orleans, Louisiana 70118
408# - 2021-0221

Permit Application Number:
MVN 2014-01518-2 EMM
Project Manager:
Scott Kennedy
(504) 862-2259
scott.n.kennedy@usace.army.mil

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. 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); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

**DREDGE, CLEAR, GRADE, AND FILL FOR THE CONSTRUCTION OF THE
GREENFIELD LOUISIANA TERMINAL AND APPURTENANT STRUCTURES
ALONG THE RIGHT DESCENDING BANK OF THE MISSISSIPPI RIVER
IN SAINT JOHN THE BAPTIST PARISH**

NAME OF APPLICANT: Greenfield Louisiana, LLC, c/o Ramboll US Consulting, Inc., 1615 Poydras Street, Suite 930, New Orleans, Louisiana 70112.

LOCATION OF WORK: Section 80, Township 12 South, Range 18 East, along the RDB of the Mississippi River at approximately mile marker 145 AHP, in Wallace, Louisiana, in Saint John the Baptist Parish, as shown on the attached drawings.

Hydrologic Unit Code: 08090301: Eastern Central Louisiana Coastal and 08070100: Lower Mississippi – Baton Rouge
Latitude: 30.041269 Longitude: -90.662397

CHARACTER OF WORK: Dredge, clear, grade, and fill for the construction of the Greenfield Louisiana Terminal, including barge, rail, and truck receiving systems, grain drying and cleaning systems, storage silos, maintenance and office buildings, a ship loading system, and other appurtenant structures in Wallace, Louisiana. The site is approximately 222 acres and approximately 6.2 acres of permanent impacts to jurisdictional wetlands are proposed. The applicant has proposed to compensate for any unavoidable impacts to jurisdictional wetlands by utilizing a Corps approved mitigation bank within the watershed.

This proposal is being readvertised due to the vacature of the “Navigable Waters Protection Rule” and the subsequent increase in jurisdictional wetlands on the site. Previously, 3.5 acres of permanent impacts to jurisdictional wetlands were proposed.

All comments submitted through previous Joint Public Notices comment periods do not need to be resubmitted.

The comment period for the Department of the Army Permit will close **30 days** from the date of this 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 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 can be preferably emailed to the Corps of Engineers project manager listed above or forwarded to the Corps of Engineers at the address above, **ATTENTION: REGULATORY DIVISION.**

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.

This request will also be reviewed pursuant to Section 408 and USACE Engineering Circular (EC) 1165-2-220, which provides policy and procedural guidance for processing request to alter USACE civil works projects. The decision whether to grant permission for the requested alteration will be based on several factors. The benefits that reasonably may be expected to accrue from the proposal will be balanced against its reasonably foreseeable detriments. Review of the requests for modification will be evaluated by a USACE technical review team considering the following factors:

- 1) Potential to Impair the Usefulness of the Project. Proposed alterations will be reviewed to determine whether the alteration would limit the ability of the USACE project to function as authorized, or would compromise or change any authorized project conditions, purposes or outputs. If USACE determines that the usefulness of the authorized project would be impaired, the request will be denied.

2) Potential to be Injurious to the Public Interest. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. This evaluation will consider information received from the interested parties, including tribes, agencies, and the public. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

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 aware of the Whitney Plantation and Evergreen Plantation 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. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

The New Orleans District has determined that the project footprint is located in an area that may be known to be utilized by the West Indian Manatee (*Trichechus manatus*) and Pallid Sturgeon (*Scaphirhynchus albus*). It has been determined that the proposed activities are not likely to adversely affect the endangered West Indian Manatee or Pallid Sturgeon based on the Information & Planning Consultation for Endangered Species in Louisiana (IPaC), dated January 27, 2020 between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office.

Our initial finding is that the proposed work is Not Likely to Adversely Affect any species listed as endangered by the U.S. Departments of Commerce, nor affect any habitat designated as critical to the survival and recovery of such species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal is not expected to result in the destruction or alteration of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would have no 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 applicable water quality standards will be required from the Department of Environmental Quality, Water Quality Certifications, before a permit is issued.

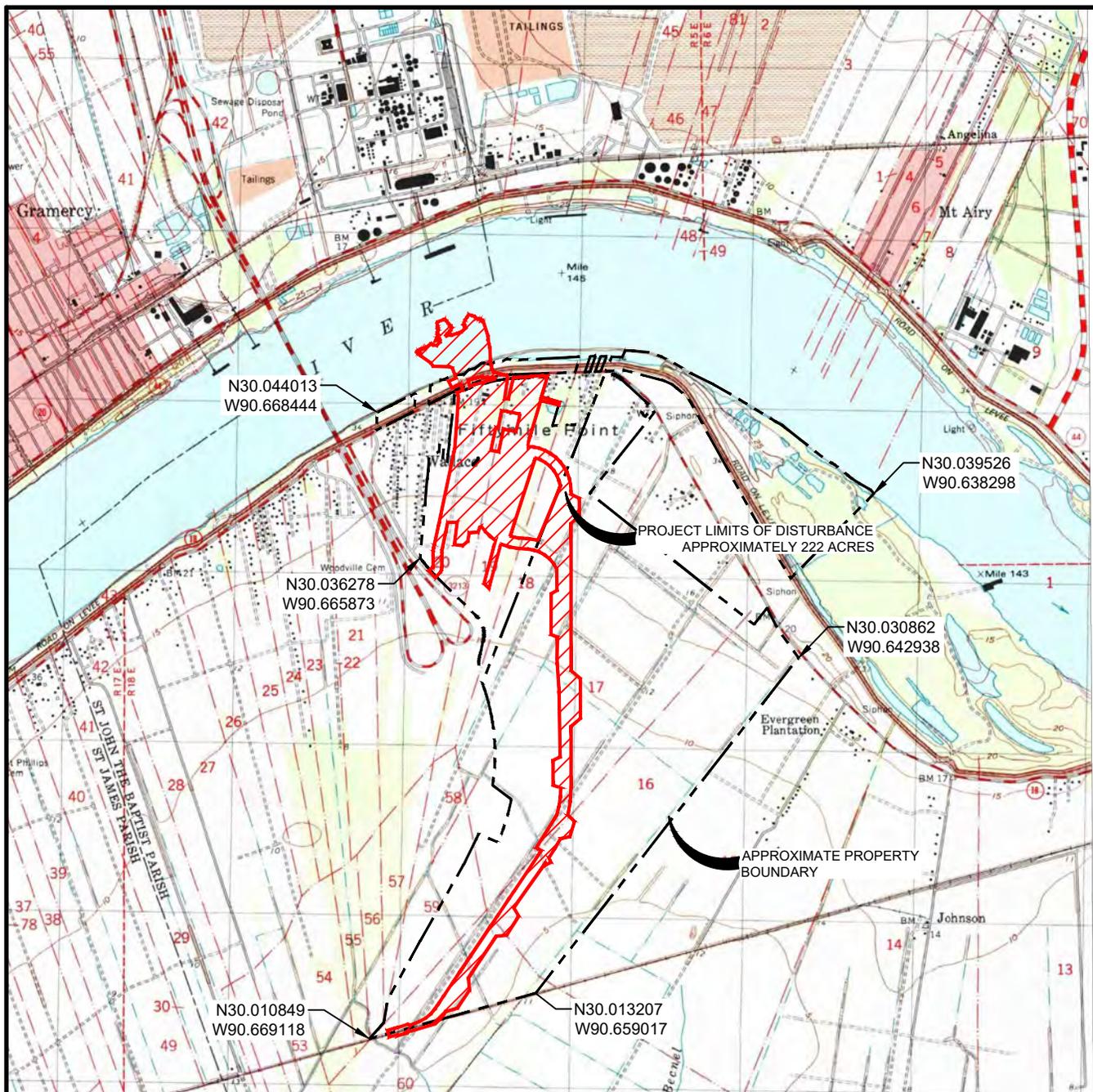
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

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. 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.

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.

Michael V. Farabee
Chief, Eastern Evaluation Branch

Enclosure



NOTES:

PARISH: ST. JOHN THE BAPTIST
 LATITUDE: 30° 2' 24.71" N
 LONGITUDE: 90° 39' 47.88" W



SITE LOCATION

1. ALL STRUCTURES BUILT UNDER THE AUTHORIZATION AND CONDITIONS OF THIS PERMIT SHALL BE REMOVED FROM THE SITE WITHIN 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE, OR WHEN THESE STRUCTURES FALL INTO A STATE OF DISREPAIR SUCH THAT THEY CAN NO LONGER FUNCTION AS INTENDED. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT SHOULD ONE BE REQUIRED, FOR SUCH REMOVAL ACTIVITIES.
2. STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
3. IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.

SCALE: 1" = 3000'



DESIGN PROVIDED BY:



VAA, LLC
 2300 Berkshire Lane N, Suite 200
 Plymouth, MN 55441

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 www.vaaeng.com
 Project # 200290

PERMIT AGENT:



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8235 YMCA Plaza Drive
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 +1 (225) 408-2696

CLIENT:



GREENFIELD EXPORTS, LLC

SITE LOCATION MAP

GREENFIELD LOUISIANA TERMINAL
 ST. JOHN THE BAPTIST PARISH

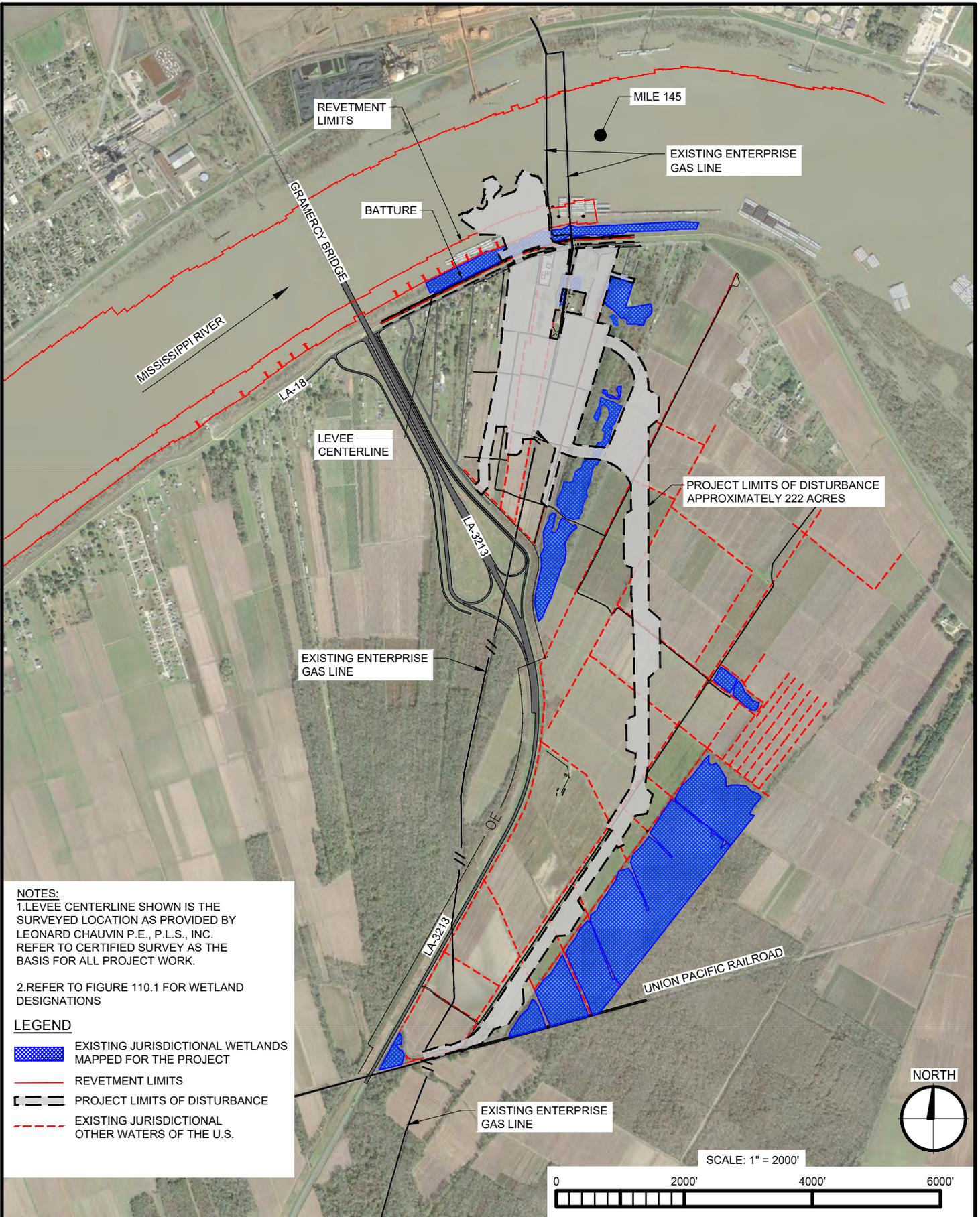
FIGURE
 101

SHEET 01 of 41

DRAWN: CMB

DATE: 06/04/21

REV: 2



NOTES:
 1. LEVEE CENTERLINE SHOWN IS THE SURVEYED LOCATION AS PROVIDED BY LEONARD CHAUVIN P.E., P.L.S., INC. REFER TO CERTIFIED SURVEY AS THE BASIS FOR ALL PROJECT WORK.
 2. REFER TO FIGURE 110.1 FOR WETLAND DESIGNATIONS

LEGEND

- EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
- REVTMENT LIMITS
- PROJECT LIMITS OF DISTURBANCE
- EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.

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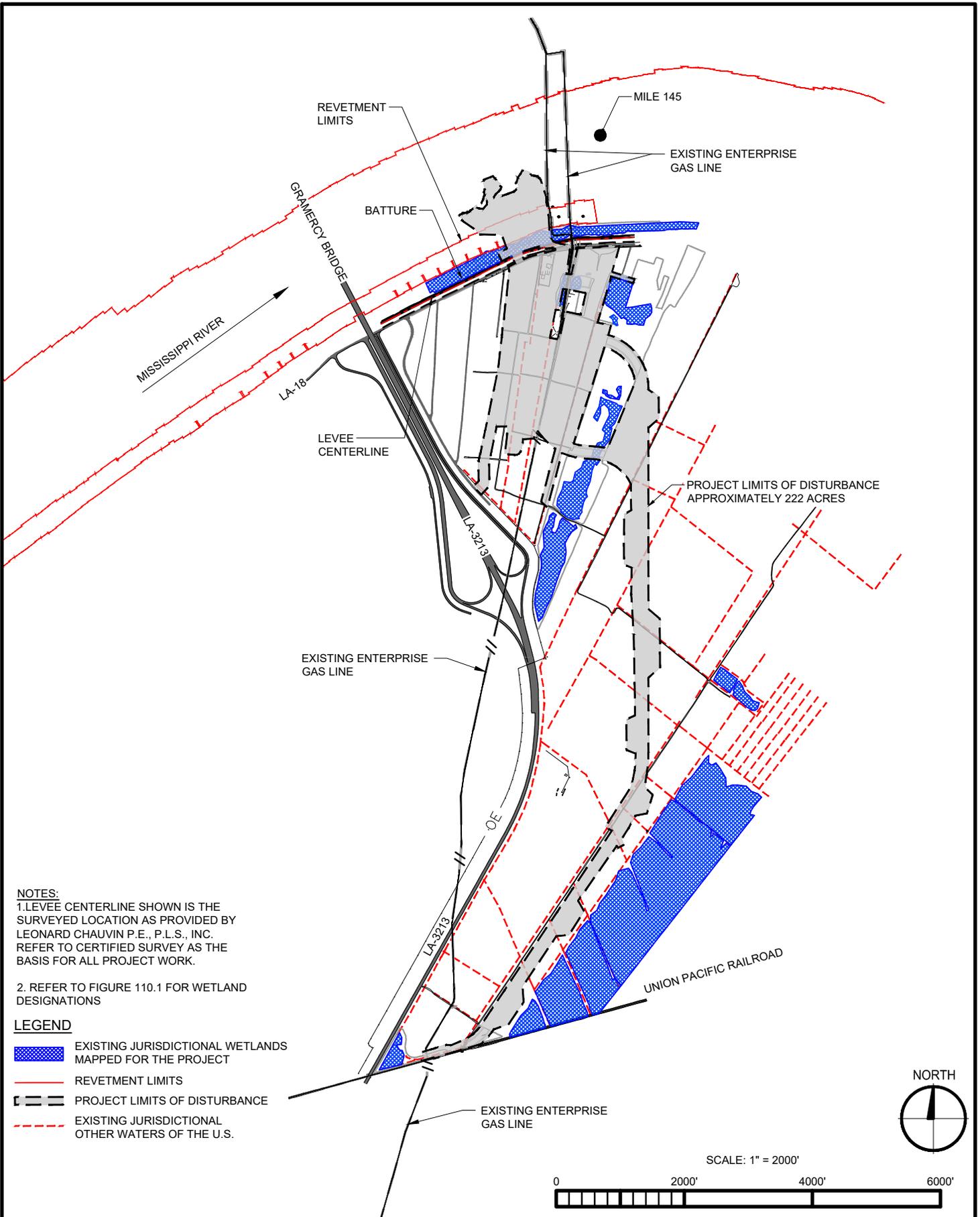
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CLIENT:

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EXISTING SITE CONDITIONS
 WITH AERIAL IMAGE
 GREENFIELD LOUISIANA TERMINAL
 ST. JOHN THE BAPTIST PARISH

FIGURE
102.1
 SHEET 02 of 41
 DRAWN: CMB
 DATE: 06/04/21
 REV: 2



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 2. REFER TO FIGURE 110.1 FOR WETLAND DESIGNATIONS

LEGEND

- EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
- REVETMENT LIMITS
- PROJECT LIMITS OF DISTURBANCE
- EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.

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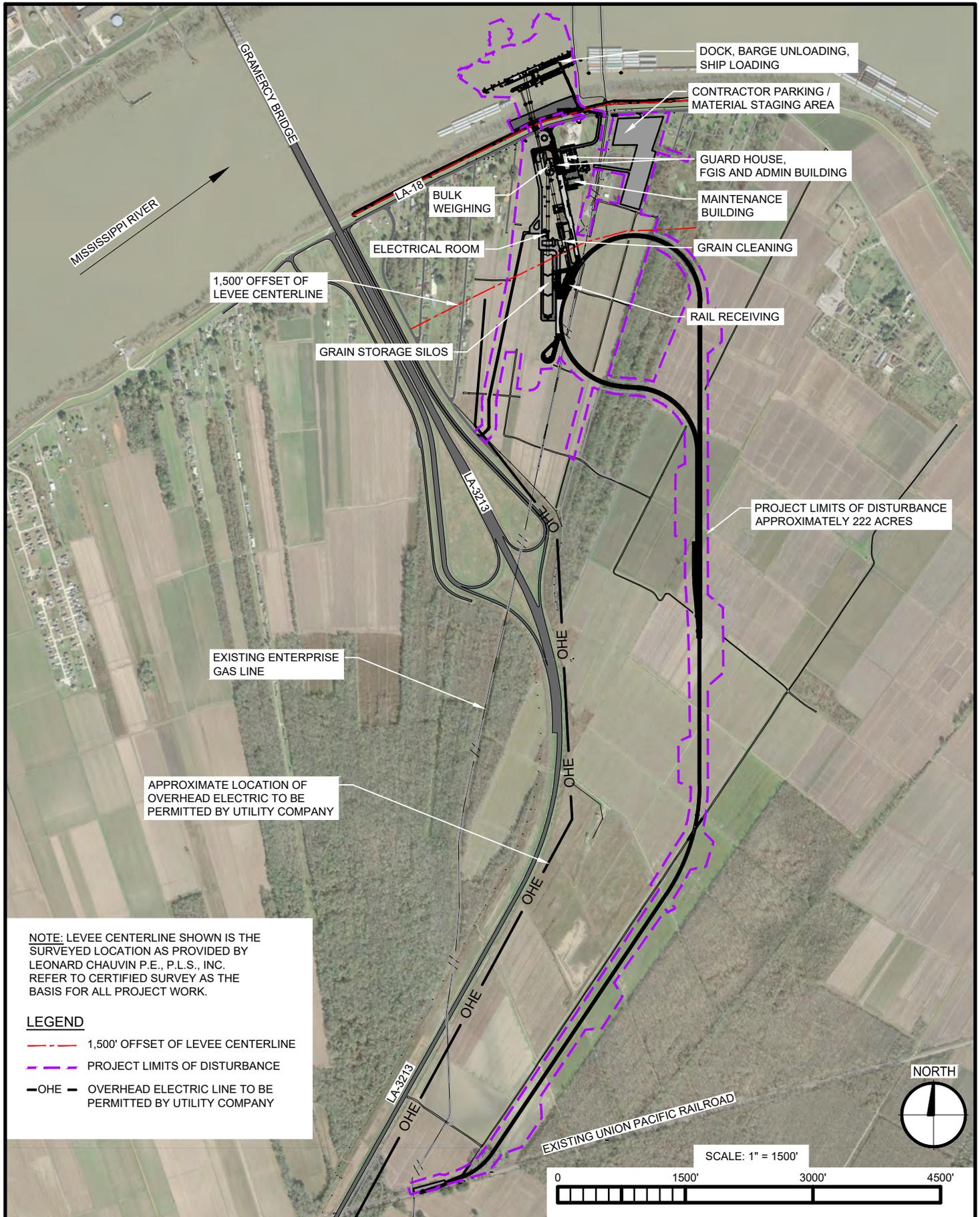
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EXISTING SITE CONDITIONS
 GREENFIELD LOUISIANA TERMINAL
 ST. JOHN THE BAPTIST PARISH

FIGURE
102.2
 SHEET 03 of 41
 DRAWN: CMB
 DATE: 06/04/21
 REV: 2



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LEGEND

- 1,500' OFFSET OF LEVEE CENTERLINE
- PROJECT LIMITS OF DISTURBANCE
- OHE --- OVERHEAD ELECTRIC LINE TO BE PERMITTED BY UTILITY COMPANY

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OVERALL SITE PLAN WITH AERIAL IMAGE

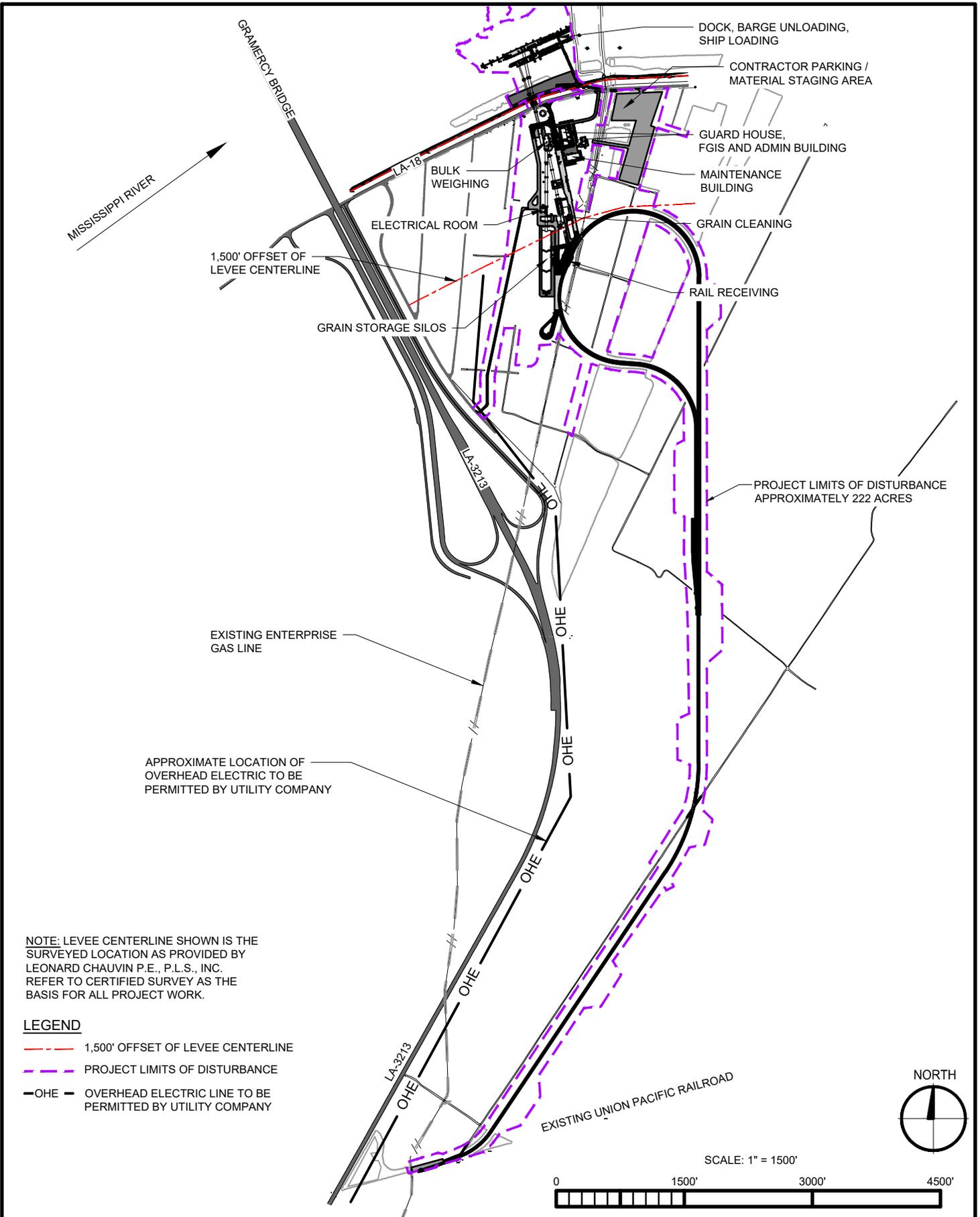
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
103.1
SHEET 04 of 41

DRAWN: CMB

DATE: 06/04/21

REV: 3



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- 1,500' OFFSET OF LEVEE CENTERLINE
- PROJECT LIMITS OF DISTURBANCE
- OHE- OVERHEAD ELECTRIC LINE TO BE PERMITTED BY UTILITY COMPANY

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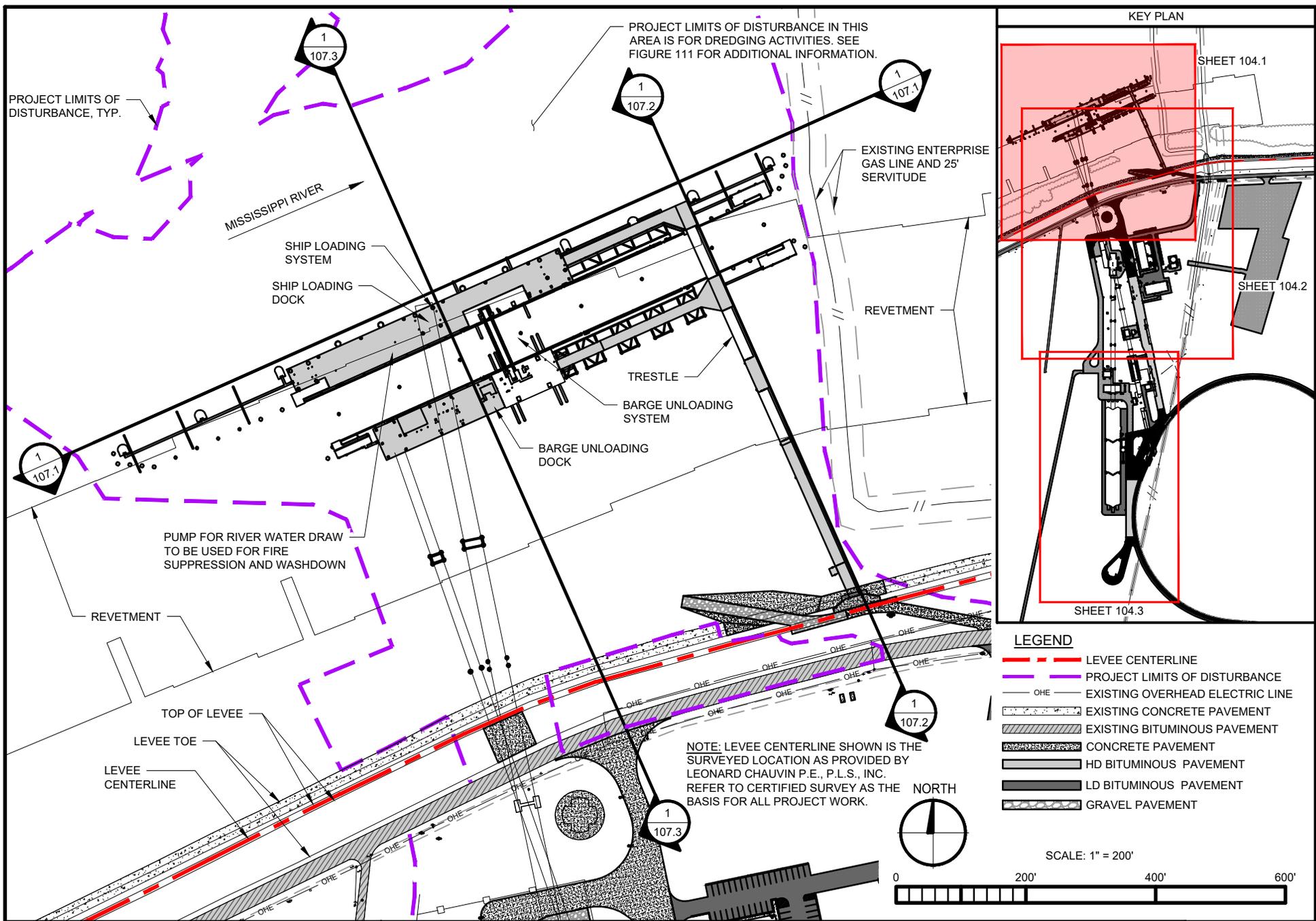
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OVERALL SITE PLAN

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
103.2
SHEET 05 of 41

DRAWN: CMB
DATE: 06/04/21
REV: 3



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CLIENT:



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DETAIL VIEW - DOCK

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

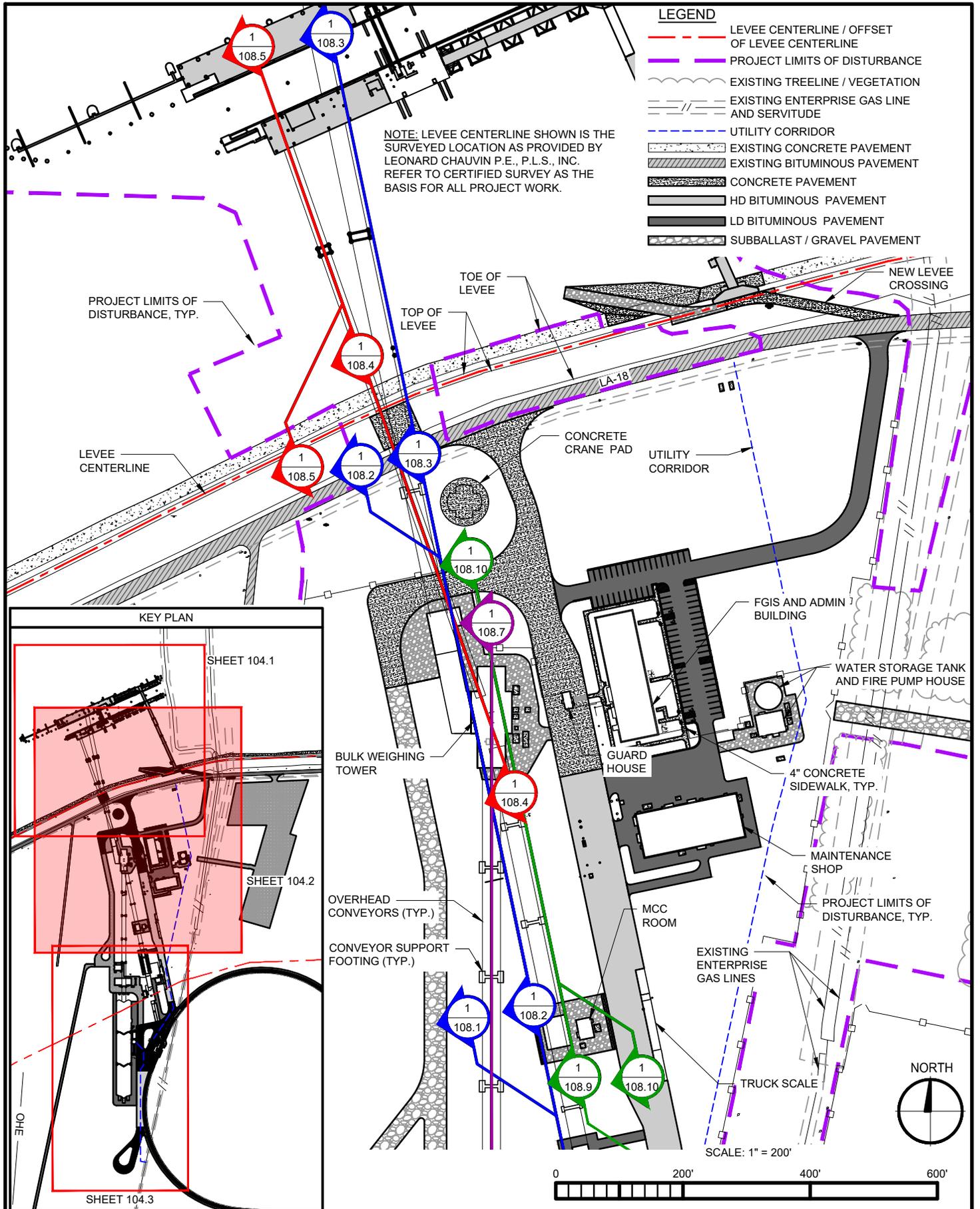
104.1

SHEET 06 OF 41

DRAWN: CMB

DATE: 07/21/21

REV: 4



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**DETAIL VIEW
PROCESS / STORAGE /
OPERATIONS AREA**
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

104.2

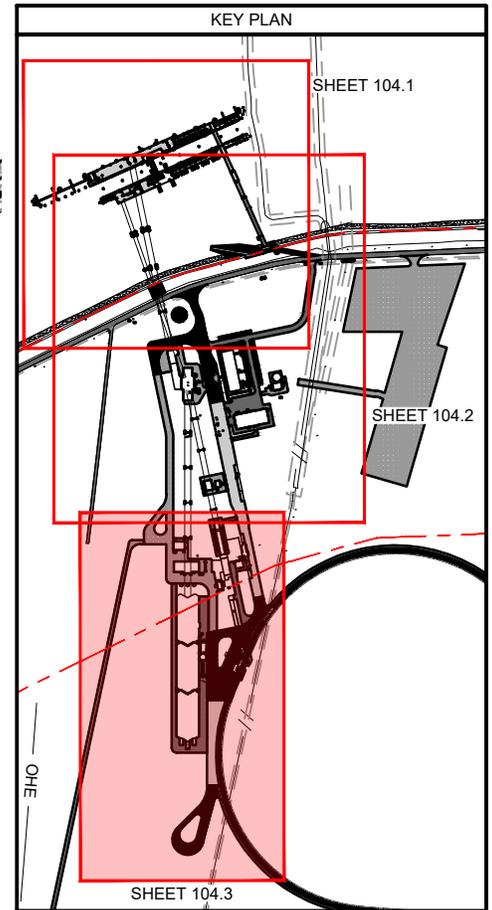
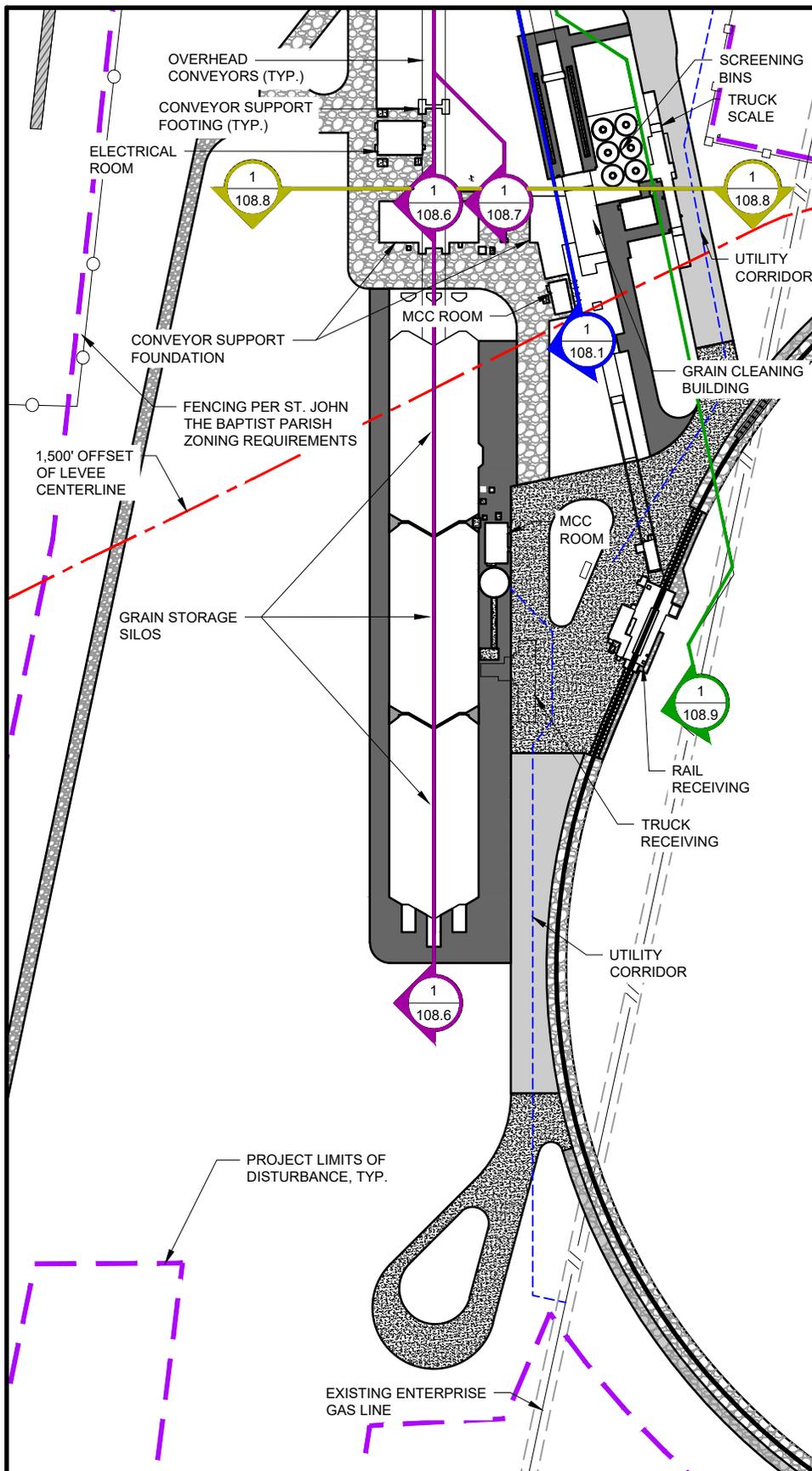
SHEET 07 of 41

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DATE: 07/21/21

REV: 4

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LEGEND

- LEVEE CENTERLINE / OFFSET OF LEVEE CENTERLINE
- PROJECT LIMITS OF DISTURBANCE
- EXISTING TREELINE / VEGETATION
- EXISTING ENTERPRISE GAS LINE AND SERVITUDE
- UTILITY CORRIDOR
- EXISTING CONCRETE PAVEMENT
- EXISTING BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- HD BITUMINOUS PAVEMENT
- LD BITUMINOUS PAVEMENT
- SUBBALLAST / GRAVEL PAVEMENT

NORTH



SCALE: 1" = 200'



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CLIENT:



GREENFIELD EXPORTS, LLC

DETAIL VIEW
PROCESS / STORAGE /
OPERATIONS AREA
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

104.3

SHEET 08 of 41

DRAWN: CMB

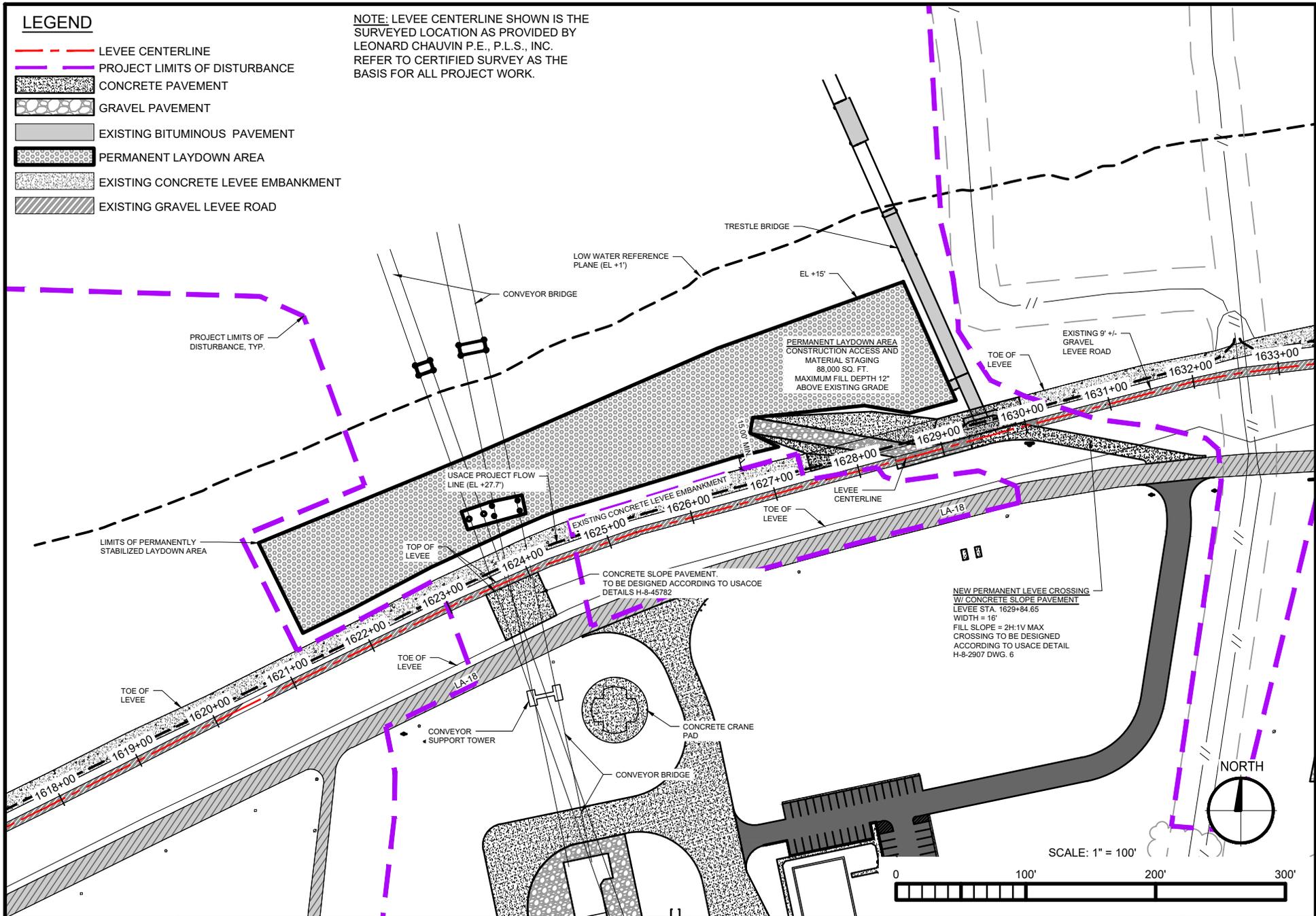
DATE: 07/21/21

REV: 4

LEGEND

-  LEVEE CENTERLINE
-  PROJECT LIMITS OF DISTURBANCE
-  CONCRETE PAVEMENT
-  GRAVEL PAVEMENT
-  EXISTING BITUMINOUS PAVEMENT
-  PERMANENT LAYDOWN AREA
-  EXISTING CONCRETE LEVEE EMBANKMENT
-  EXISTING GRAVEL LEVEE ROAD

NOTE: LEVEE CENTERLINE SHOWN IS THE SURVEYED LOCATION AS PROVIDED BY LEONARD CHAUVIN P.E., P.L.S., INC. REFER TO CERTIFIED SURVEY AS THE BASIS FOR ALL PROJECT WORK.



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DETAIL VIEW - LEVEE AND ROAD CROSSING

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

105.1

SHEET 09 of 41

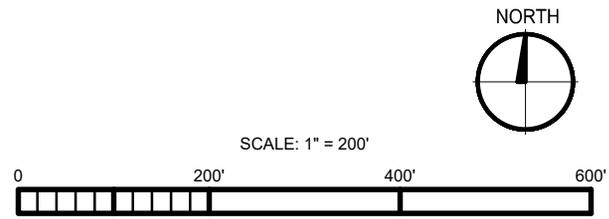
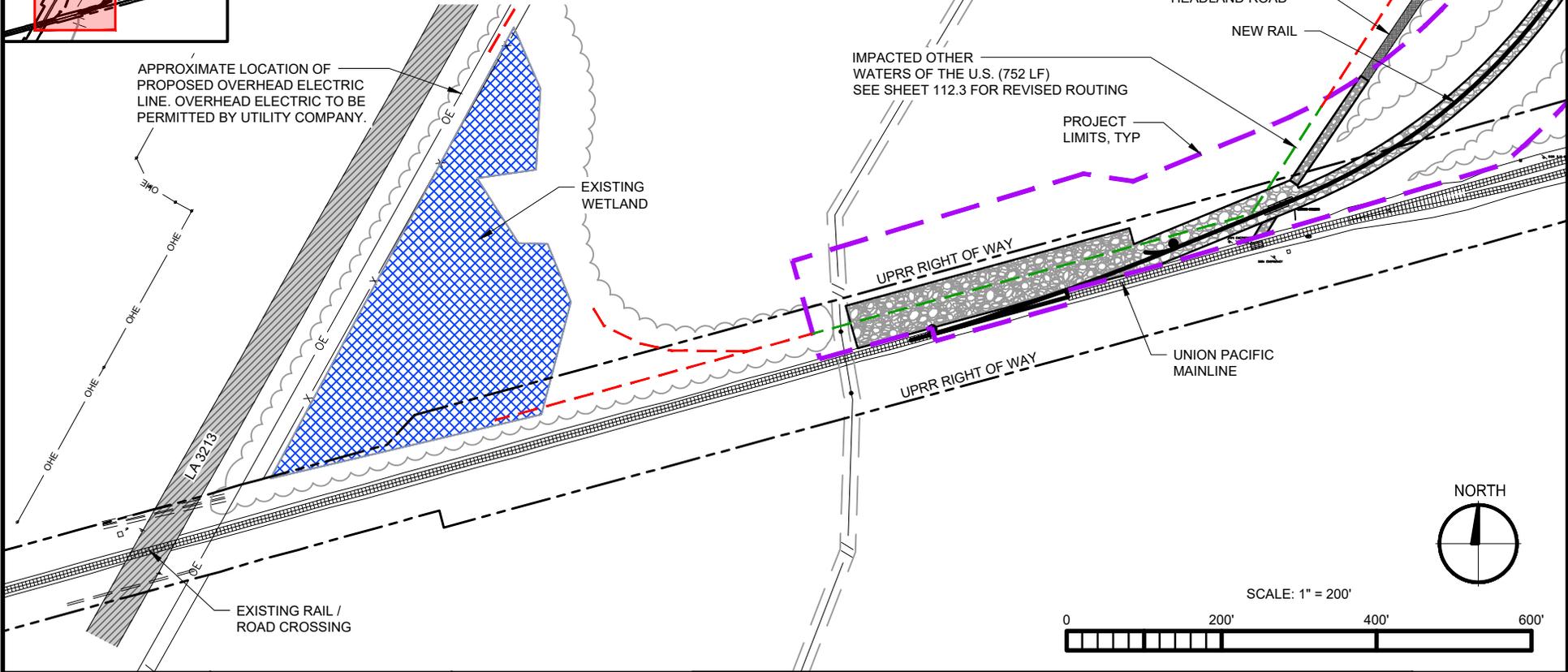
DRAWN: CMB

DATE: 06/04/21

REV: 3



- LEGEND**
- RIGHT OF WAY
 - PROJECT LIMITS OF DISTURBANCE
 - EXISTING TREELINE / VEGETATION
 - == == EXISTING CULVERT
 - EXISTING ENTERPRISE GAS LINE AND SERVITUDE
 - EXISTING BITUMINOUS PAVEMENT
 - EXISTING HEADLAND ROAD
 - OE --- PROPOSED OVERHEAD ELECTRIC LINE TO BE PERMITTED BY UTILITY COMPANY
 - EXISTING OVERHEAD ELECTRIC LINE
 - X --- EXISTING FENCE
 - SUBBALLAST
 - EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
 - EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
 - IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.



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CLIENT:



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DETAIL VIEW - RAIL CONNECTION

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

105.2

SHEET 10 of 41

DRAWN: CMB

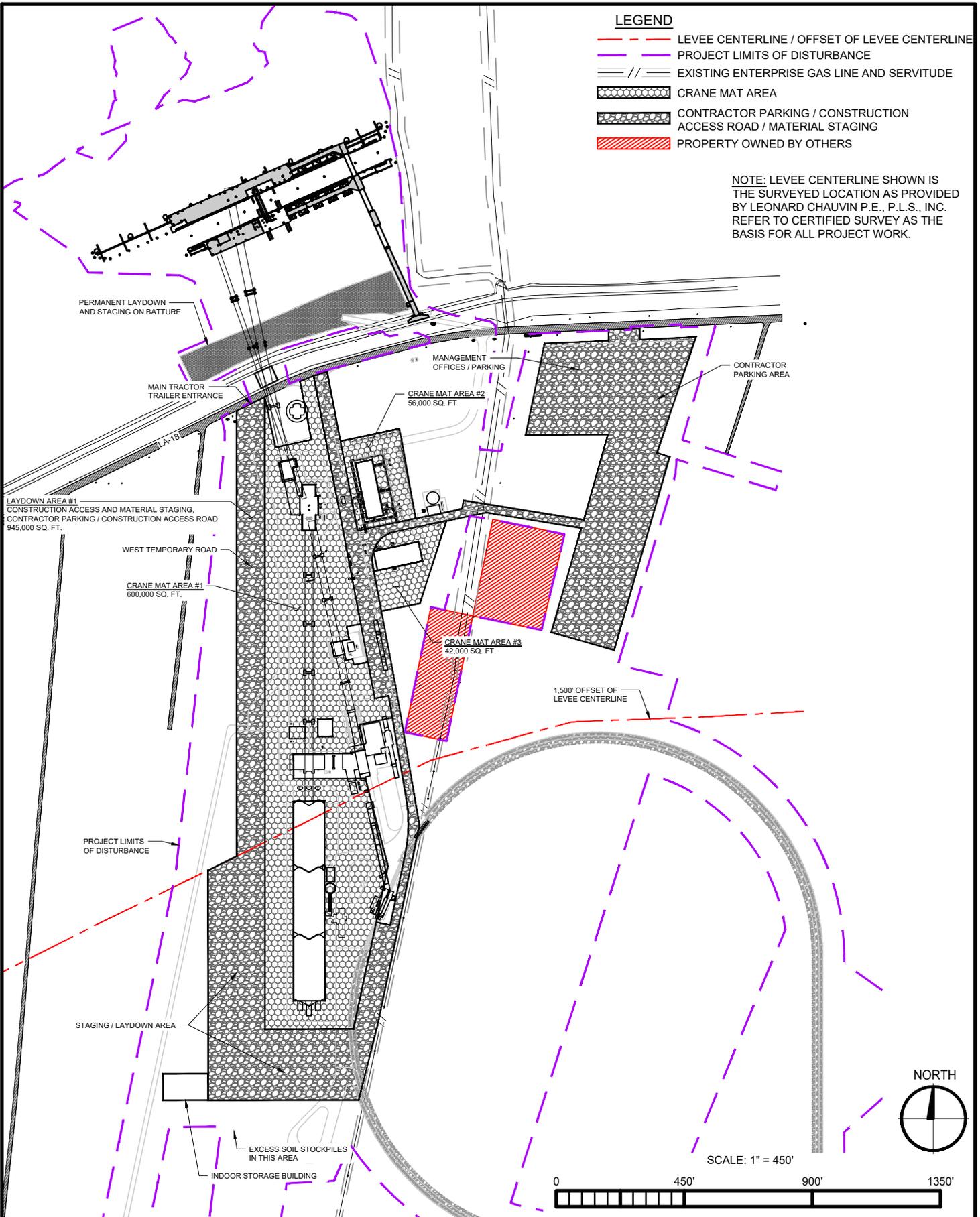
DATE: 06/04/21

REV: 2

LEGEND

- - - LEVEE CENTERLINE / OFFSET OF LEVEE CENTERLINE
- - - PROJECT LIMITS OF DISTURBANCE
- EXISTING ENTERPRISE GAS LINE AND SERVITUDE
- CRANE MAT AREA
- CONTRACTOR PARKING / CONSTRUCTION ACCESS ROAD / MATERIAL STAGING
- PROPERTY OWNED BY OTHERS

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CLIENT:



GREENFIELD EXPORTS, LLC

**TEMPORARY CONSTRUCTION
ACCESS AND STAGING PLAN**

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

106

SHEET 11 of 41

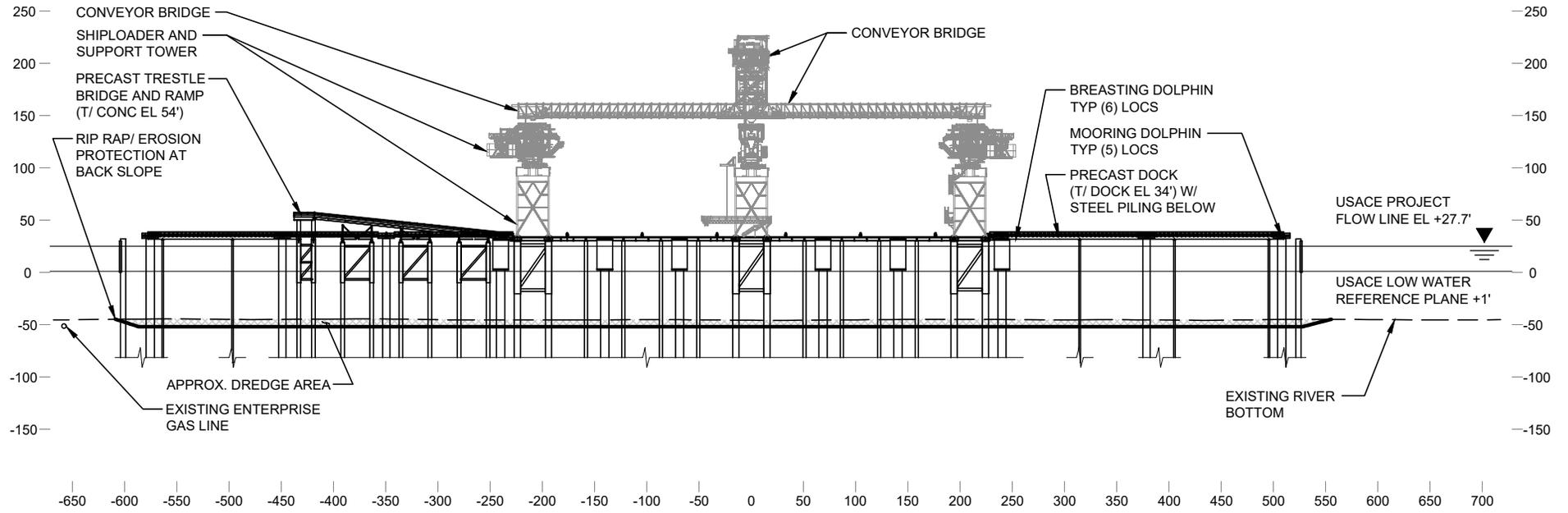
DRAWN: CMB

DATE: 07/21/21

REV: 4

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

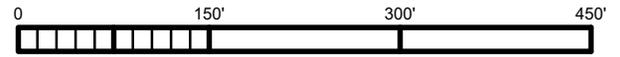
SEE SHEET 104.1 FOR PLAN VIEW



LEGEND

-  EXISTING GRADE TO BE REMOVED
-  NEW FILL
-  EXISTING GRADE
-  PROPOSED GRADE

SCALE: 1" = 150'

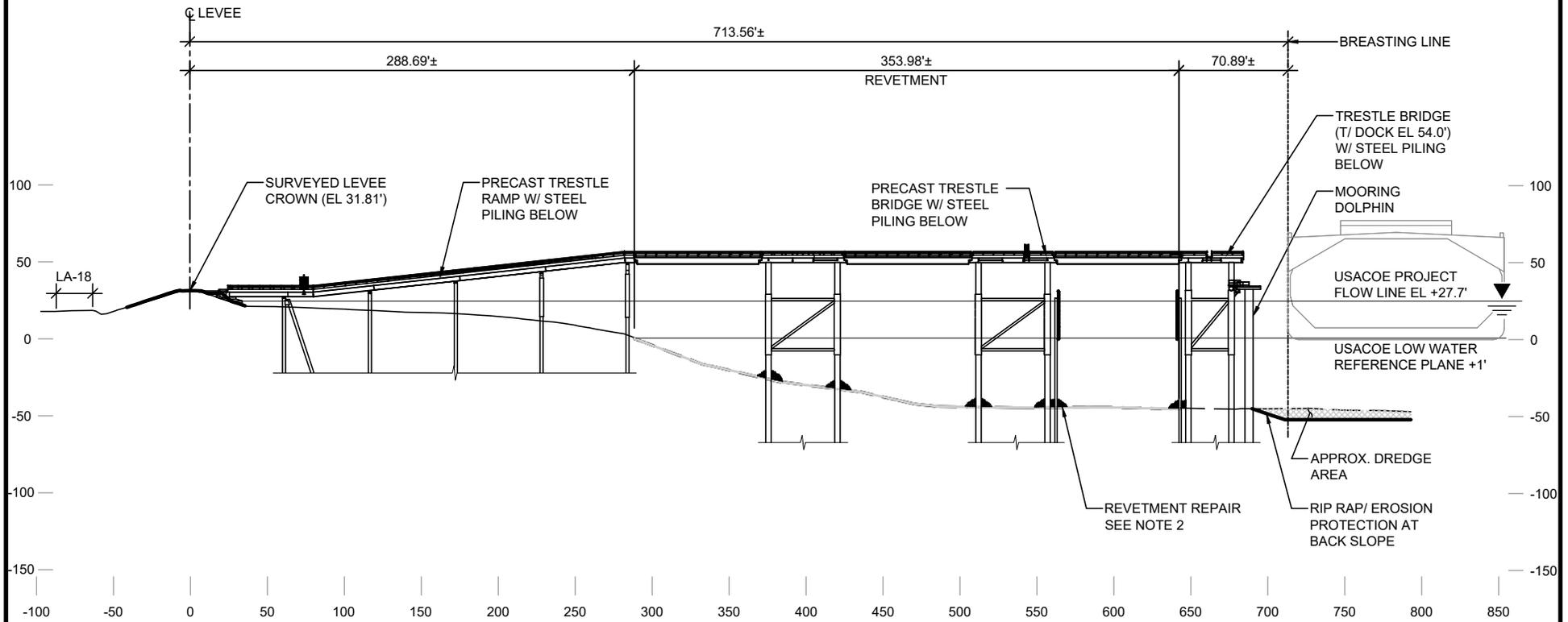


NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

<p>DESIGN PROVIDED BY:</p>  <p>VAA, LLC 2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441 763.559.9100 www.vaaeng.com Project # 200290</p>	<p>PERMIT AGENT:</p>  <p>1615 Poydras Street Suite 930 New Orleans, LA 70112 +1 (504) 648-2123</p> <p>8235 YMCA Plaza Drive Suite 300 Baton Rouge, LA 70810 +1 (225) 408-2696</p>	<p>CLIENT:</p>  <p>GREENFIELD EXPORTS, LLC</p>	<p>ELEVATION DOCK (LOOKING INLAND)</p> <p>GREENFIELD LOUISIANA TERMINAL ST. JOHN THE BAPTIST PARISH</p>	<p>FIGURE 107.1 SHEET 12 of 41</p> <p>DRAWN: MAF</p> <p>DATE: 07/21/21</p> <p>REV: 2</p>
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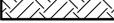
REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEET 104.1 FOR PLAN VIEW



SECTION AT STA. 1629+66.84

LEGEND

-  EXISTING GRADE TO BE REMOVED
-  NEW FILL
-  EXISTING GRADE
-  PROPOSED GRADE

SCALE: 1" = 100'



NOTES:

1. CONCRETE SLOPE PROTECTION SHALL BE PLACED IN ACCORDANCE WITH THE ARMY CORPS. OF ENGINEERS STANDARD SHEET TITLED "SURFACE CROSSINGS TYPICAL FOR RIVER LEVEES" H-8-29027, DWG No. 4
2. REVETMENT REPAIR SHALL BE PLACED IN ACCORDANCE WITH THE ARMY CORPS. OF ENGINEERS STANDARD SHEET TITLED "REPAIR PROCEDURES REQUIRED WHEN PENETRATING REVETMENTS WITH PILES, CAISSONS AND/OR PILE CLUSTERS" H-18-45204, DWG No. 1
2. LEVEE CENTERLINE SHOWN IS THE SURVEYED LOCATION AS PROVIDED BY LEONARD CHAUVIN P.E., P.L.S., INC. REFER TO CERTIFIED SURVEY AS THE BASIS FOR ALL PROJECT WORK.
3. ALL ELEVATIONS SHOWN IN NAVD88

DESIGN PROVIDED BY:



VAA, LLC
2300 Berkshire Lane N, Suite 200
Plymouth, MN 55441

763.559.9100
www.vaaeng.com
Project # 200290

PERMIT AGENT:



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+1 (225) 408-2696

CLIENT:



GREENFIELD EXPORTS, LLC

CROSS SECTION
TRESTLE BRIDGE

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

107.2

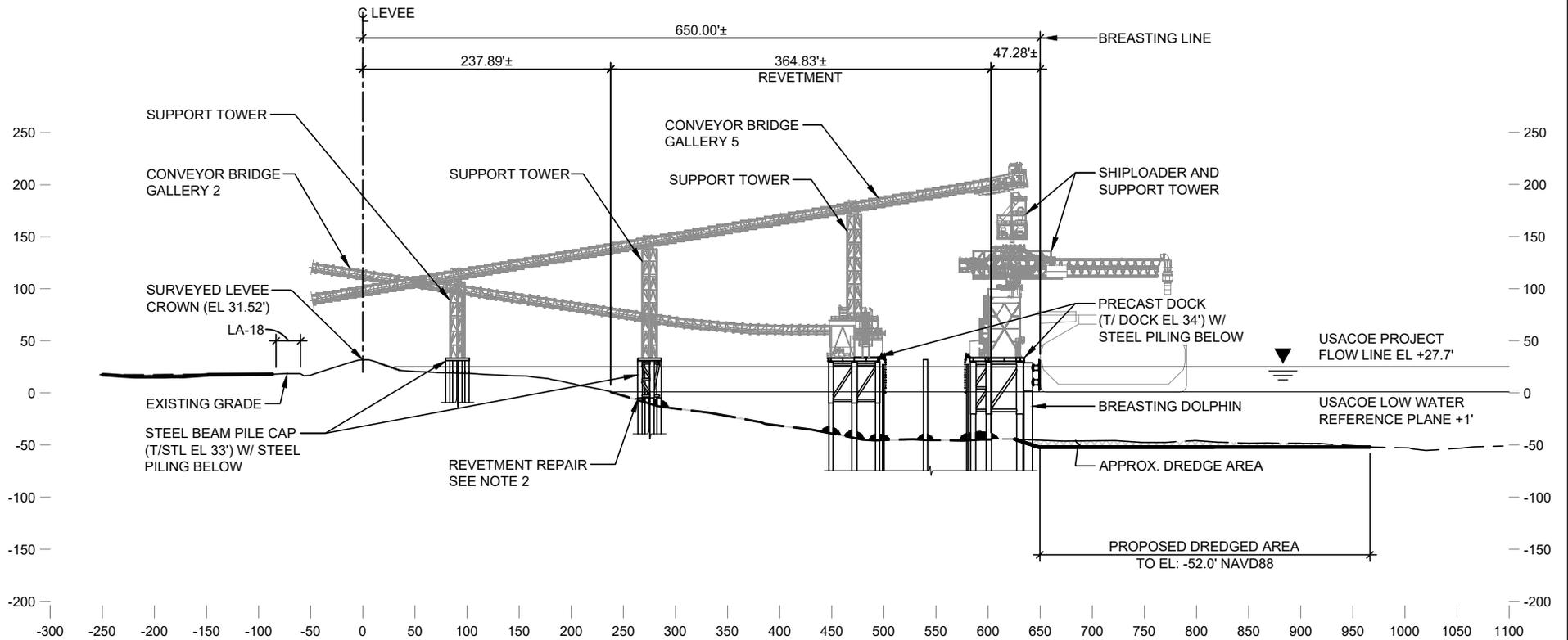
SHEET 13 OF 41

DRAWN: MAF

DATE: 07/21/21

REV: 1

SEE SHEET 104.1 FOR PLAN VIEW

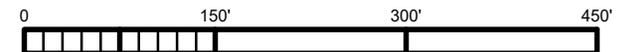


SECTION AT STA. 1626+89.10

LEGEND

-  EXISTING GRADE TO BE REMOVED
-  NEW FILL
-  EXISTING GRADE
-  PROPOSED GRADE

SCALE: 1" = 150'



NOTES:

1. CONCRETE SLOPE PROTECTION SHALL BE PLACED IN ACCORDANCE WITH THE ARMY CORPS. OF ENGINEERS STANDARD SHEET TITLED "SURFACE CROSSINGS TYPICAL FOR RIVER LEVEES" H-8-29027, DWG No. 4
2. REVETMENT REPAIR SHALL BE PLACED IN ACCORDANCE WITH THE ARMY CORPS. OF ENGINEERS STANDARD SHEET TITLED "REPAIR PROCEDURES REQUIRED WHEN PENETRATING REVETMENTS WITH PILES, CAISSONS AND/OR PILE CLUSTERS" H-18-45204, DWG No. 1
2. LEVEE CENTERLINE SHOWN IS THE SURVEYED LOCATION AS PROVIDED BY LEONARD CHAUVIN P.E., P.L.S., INC. REFER TO CERTIFIED SURVEY AS THE BASIS FOR ALL PROJECT WORK.
3. ALL ELEVATIONS SHOWN IN NAVD88

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CLIENT:



GREENFIELD EXPORTS, LLC

CROSS SECTION
LEVEE AND DOCK

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

107.3

SHEET 14 OF 41

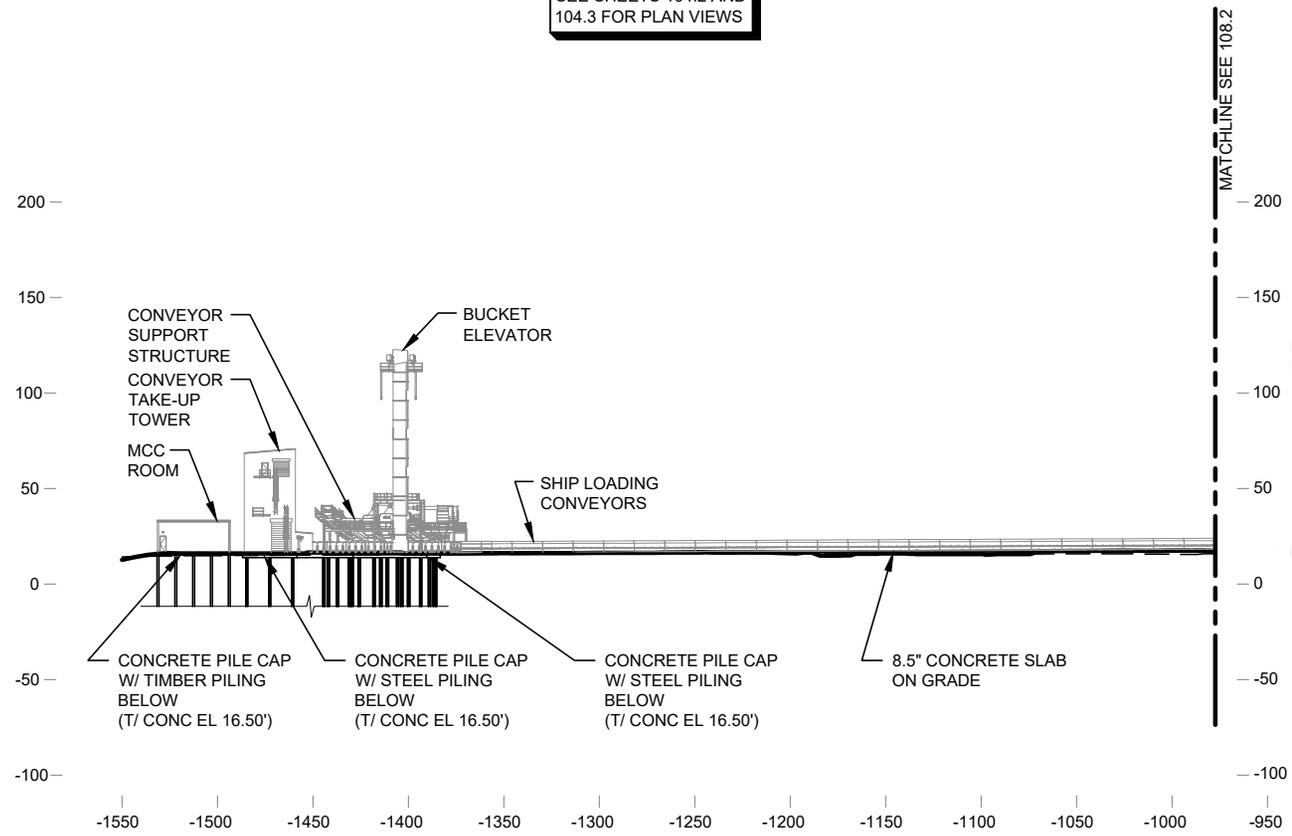
DRAWN: MAF

DATE: 06/04/21

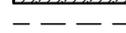
REV: 1

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEETS 104.2 AND 104.3 FOR PLAN VIEWS



LEGEND

-  EXISTING GRADE TO BE REMOVED
-  NEW FILL
-  EXISTING GRADE
-  PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



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GREENFIELD EXPORTS, LLC

**CROSS SECTION
SHIP LOADING CONVEYORS
AND TAKE-UP TOWER
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH**

FIGURE
108.1
SHEET 15 of 41

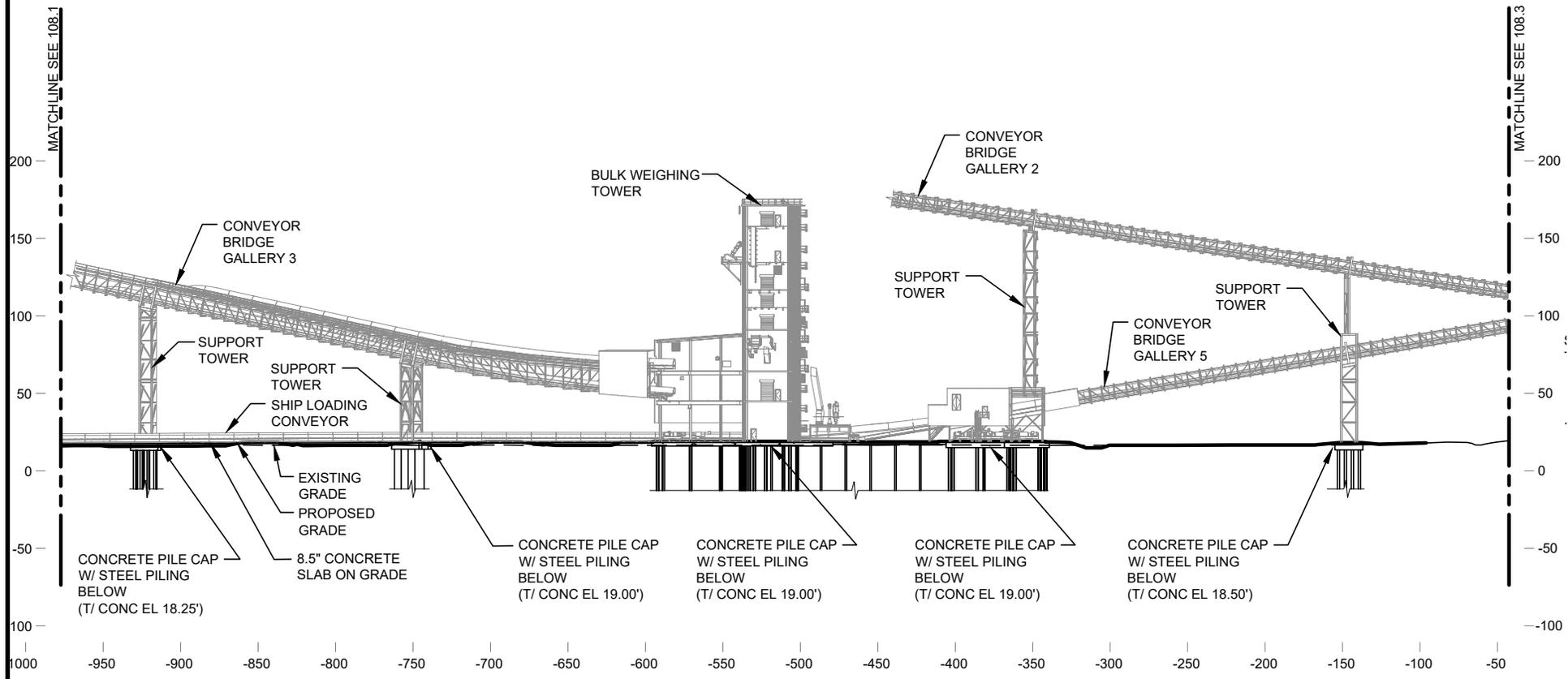
DRAWN: CLC

DATE: 07/21/21

REV: 2

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEET 104.2 FOR PLAN VIEW



LEGEND

- EXISTING GRADE TO BE REMOVED
- NEW FILL
- EXISTING GRADE
- PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



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CLIENT:



GREENFIELD EXPORTS, LLC

**CROSS SECTION
SHIP LOADING CONVEYOR GALLERY 5
AND BULK WEIGHING TOWER**

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
108.2
SHEET 16 of 41

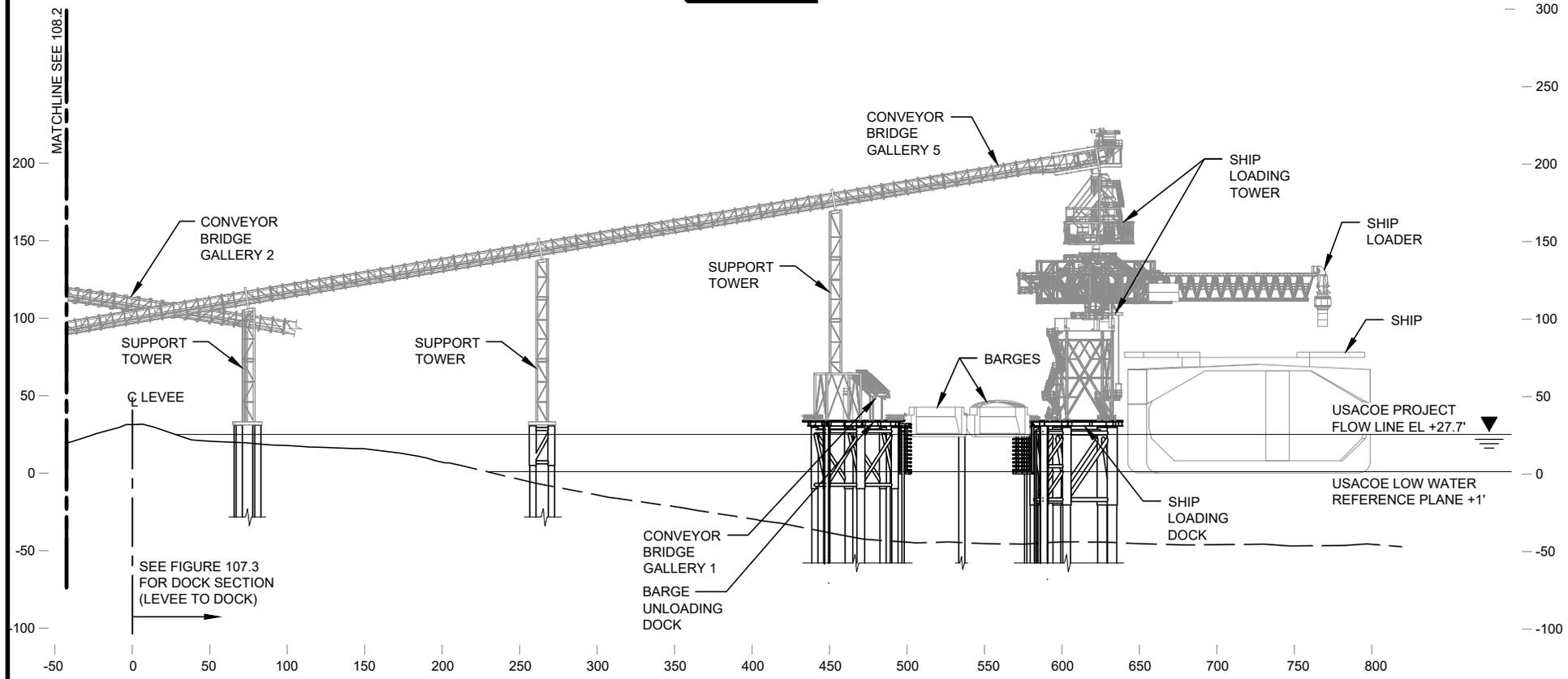
DRAWN: CLC

DATE: 06/04/21

REV: 1

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEET 104.2 FOR PLAN VIEW

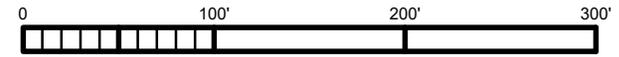


LEGEND

- EXISTING GRADE TO BE REMOVED
- NEW FILL
- EXISTING GRADE
- PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



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**CROSS SECTION
SHIP LOADING CONVEYOR GALLERY 5
AND DOCK
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH**

FIGURE
108.3
SHEET 17 of 41

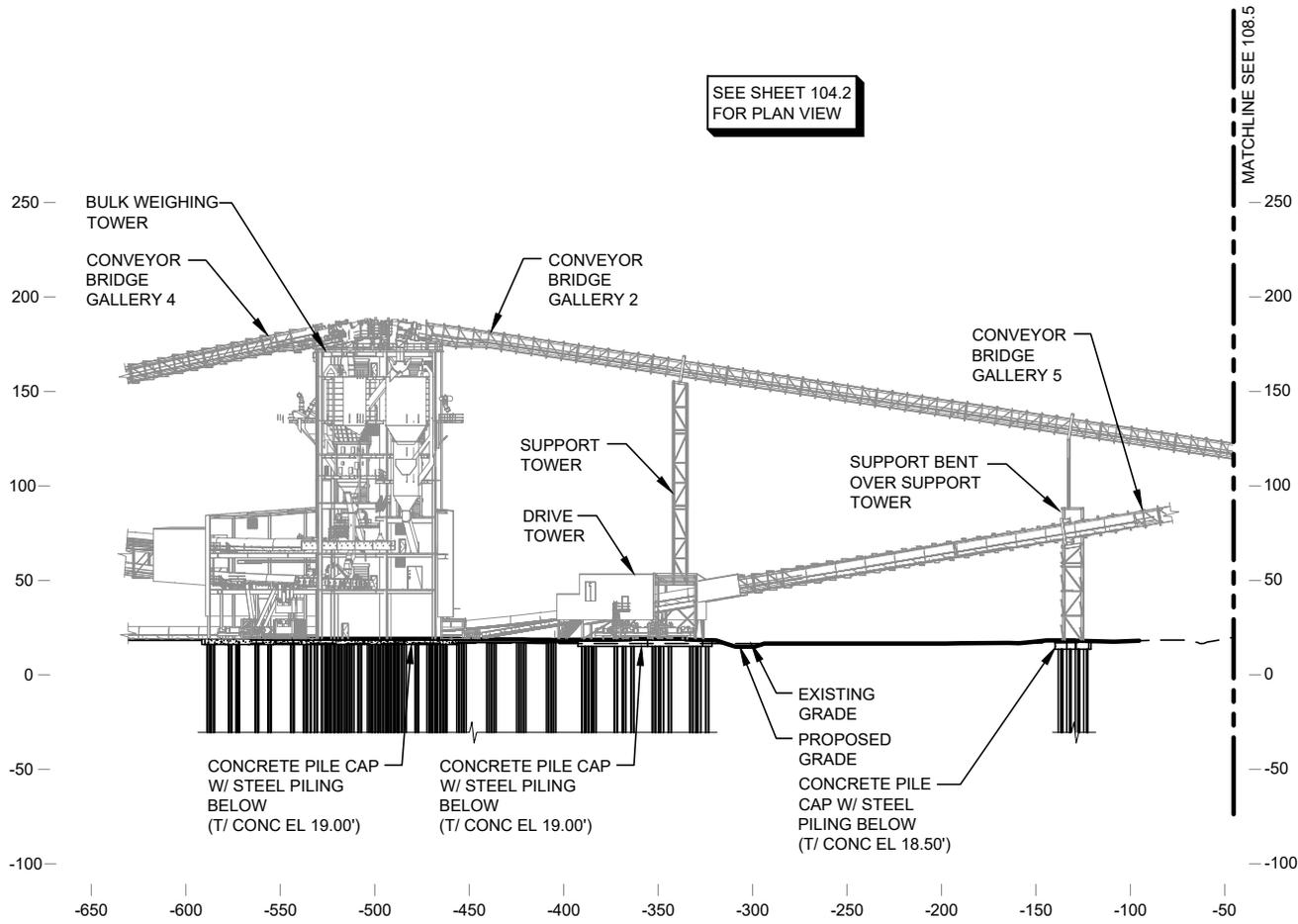
DRAWN: CLC

DATE: 06/04/21

REV: 1

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEET 104.2 FOR PLAN VIEW



LEGEND

- EXISTING GRADE TO BE REMOVED
- NEW FILL
- EXISTING GRADE
- PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



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CLIENT:



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**CROSS SECTION
BARGE UNLOAD CONVEYOR GALLERY 2
AND BULK WEIGHING TOWER**

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

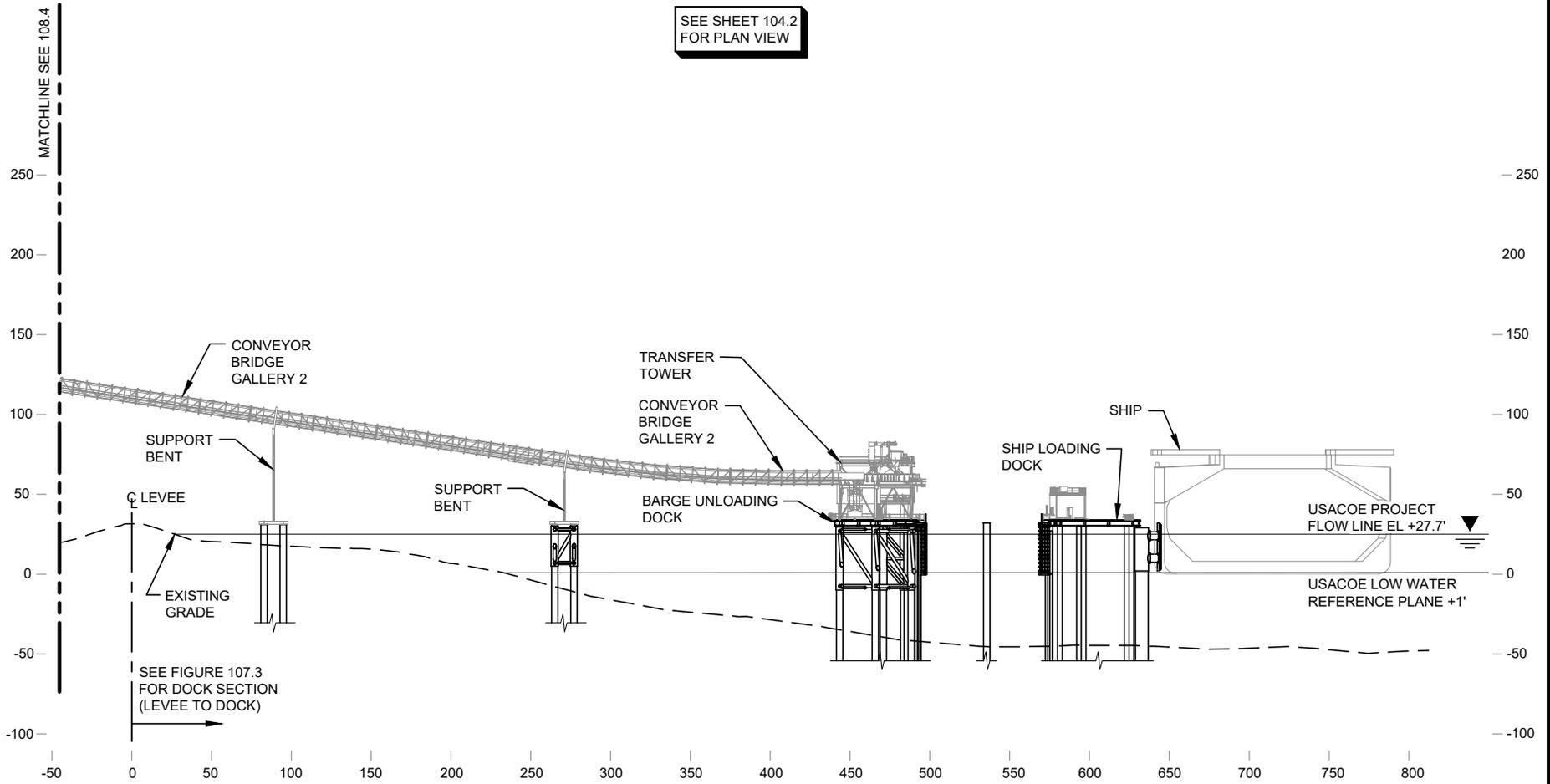
FIGURE
108.4
SHEET 18 of 41

DRAWN: CLC

DATE: 06/04/21

REV: 1

SEE SHEET 104.2 FOR PLAN VIEW



LEGEND

- EXISTING GRADE TO BE REMOVED
- NEW FILL
- EXISTING GRADE
- PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



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CLIENT:



GREENFIELD EXPORTS, LLC

CROSS SECTION
BARGE UNLOAD CONVEYOR GALLERY 2
AND DOCK
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

108.5

SHEET 19 OF 41

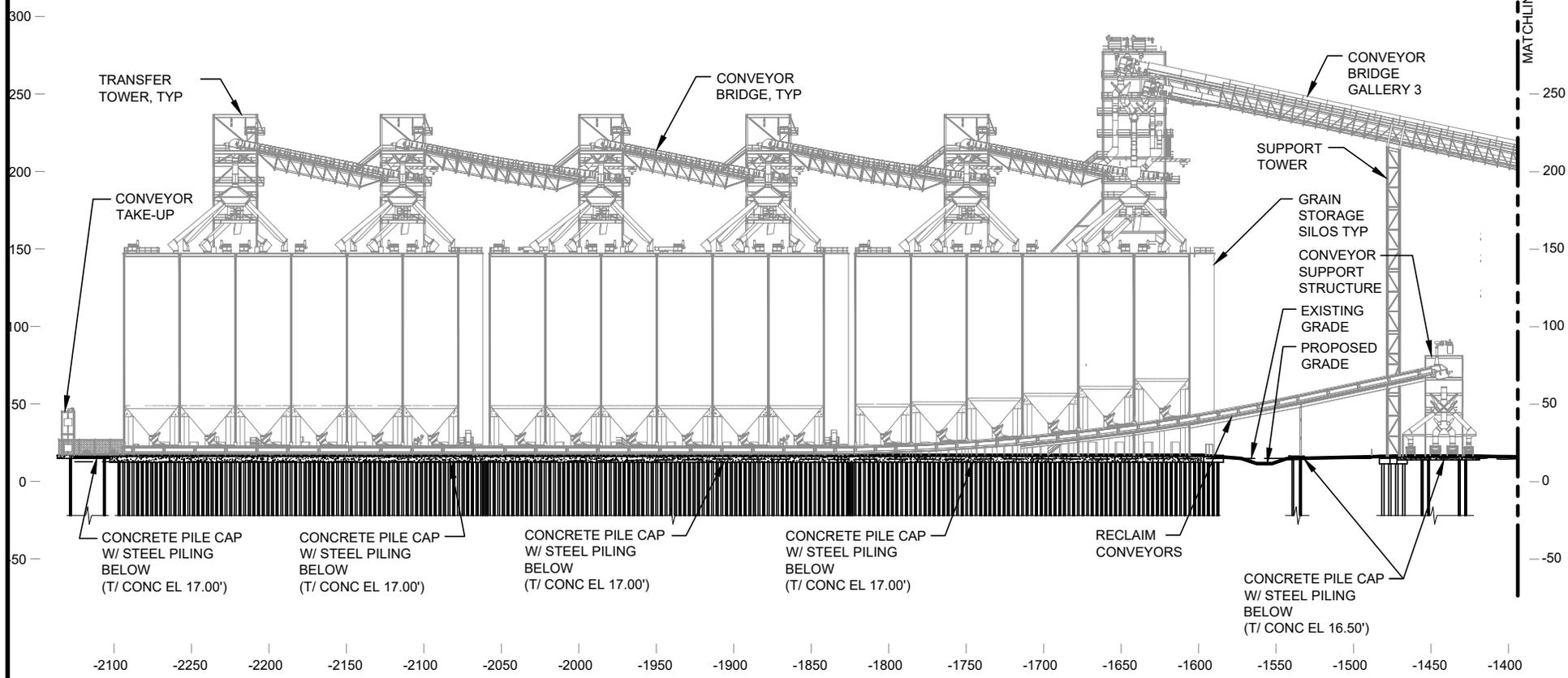
DRAWN: CLC

DATE: 06/04/21

REV: 1

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEET 104.3 FOR PLAN VIEW



LEGEND

- EXISTING GRADE TO BE REMOVED
- NEW FILL
- EXISTING GRADE
- PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



DESIGN PROVIDED BY:

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CLIENT:

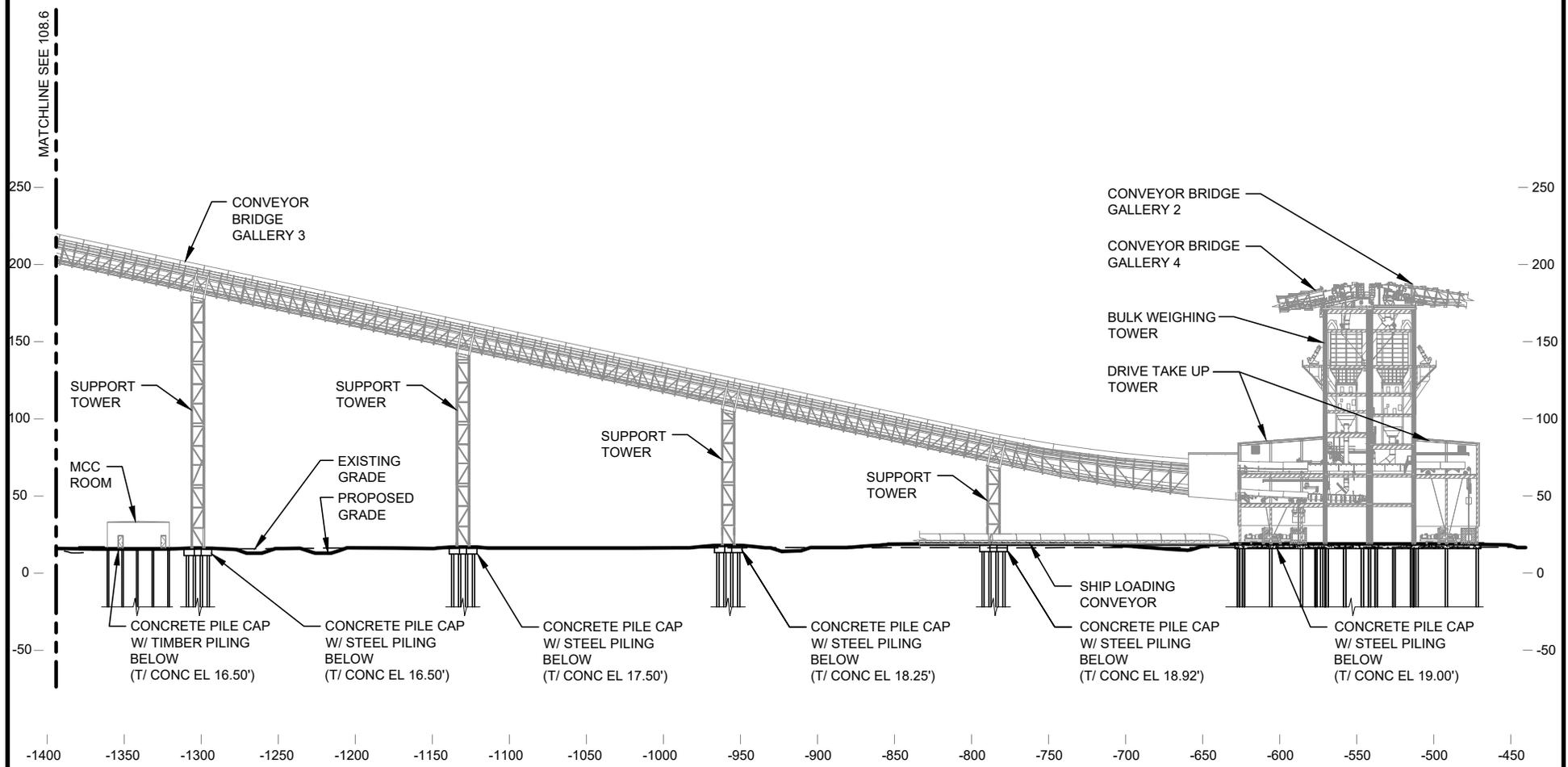
GREENFIELD EXPORTS, LLC

CROSS SECTION
GRAIN STORAGE SILOS
AND CONVEYOR GALLERY 3
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
108.6
SHEET 20 of 41
DRAWN: CLC
DATE: 06/04/21
REV: 1

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEETS 104.2 AND 104.3 FOR PLAN VIEWS

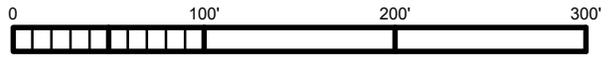


LEGEND

- EXISTING GRADE TO BE REMOVED
- NEW FILL
- EXISTING GRADE
- PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



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CLIENT:



GREENFIELD EXPORTS, LLC

**CROSS SECTION
CONVEYOR GALLERY 3
AND BULK WEIGHING TOWER**

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
108.7
SHEET 21 of 41

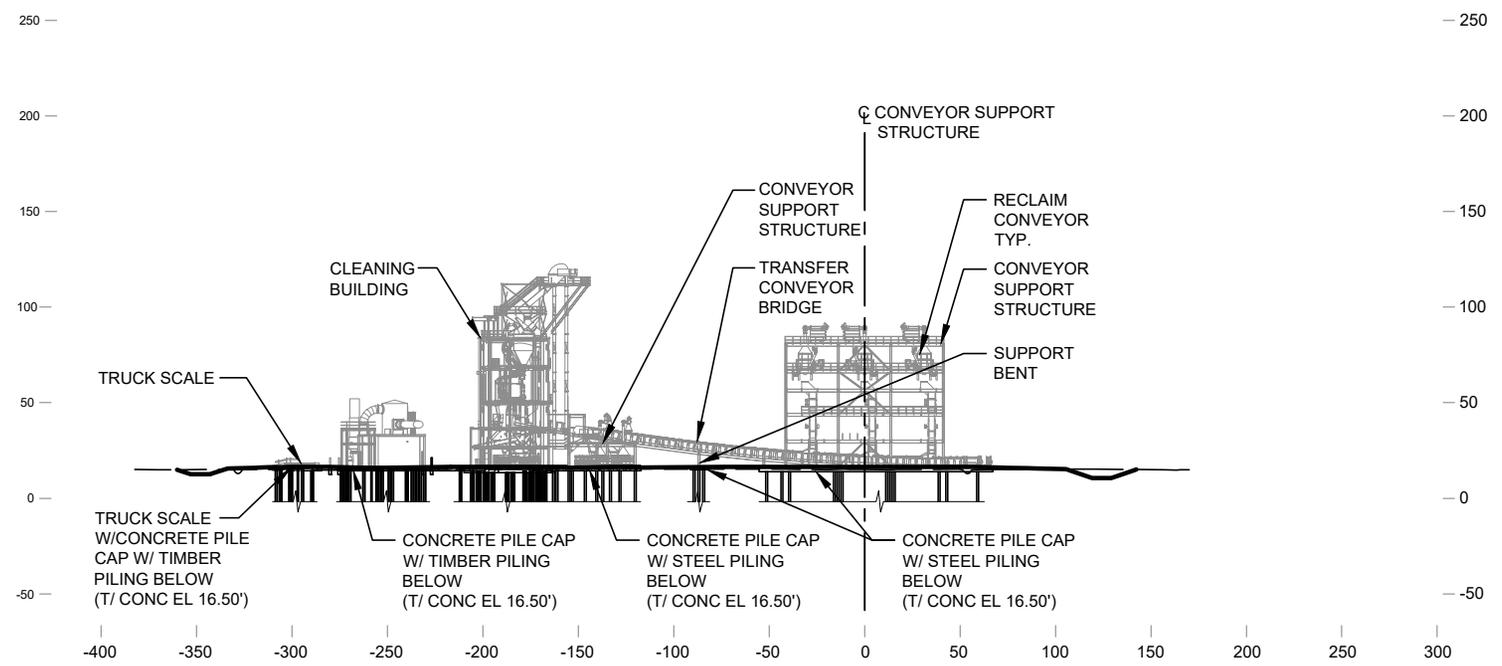
DRAWN: CLC

DATE: 06/04/21

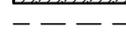
REV: 2

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEET 104.3 FOR PLAN VIEW



LEGEND

-  EXISTING GRADE TO BE REMOVED
-  NEW FILL
-  EXISTING GRADE
-  PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



DESIGN PROVIDED BY:



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CLIENT:



GREENFIELD EXPORTS, LLC

**CROSS SECTION
CONVEYORS TO GRAIN CLEANING**

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
108.8
SHEET 22 of 41

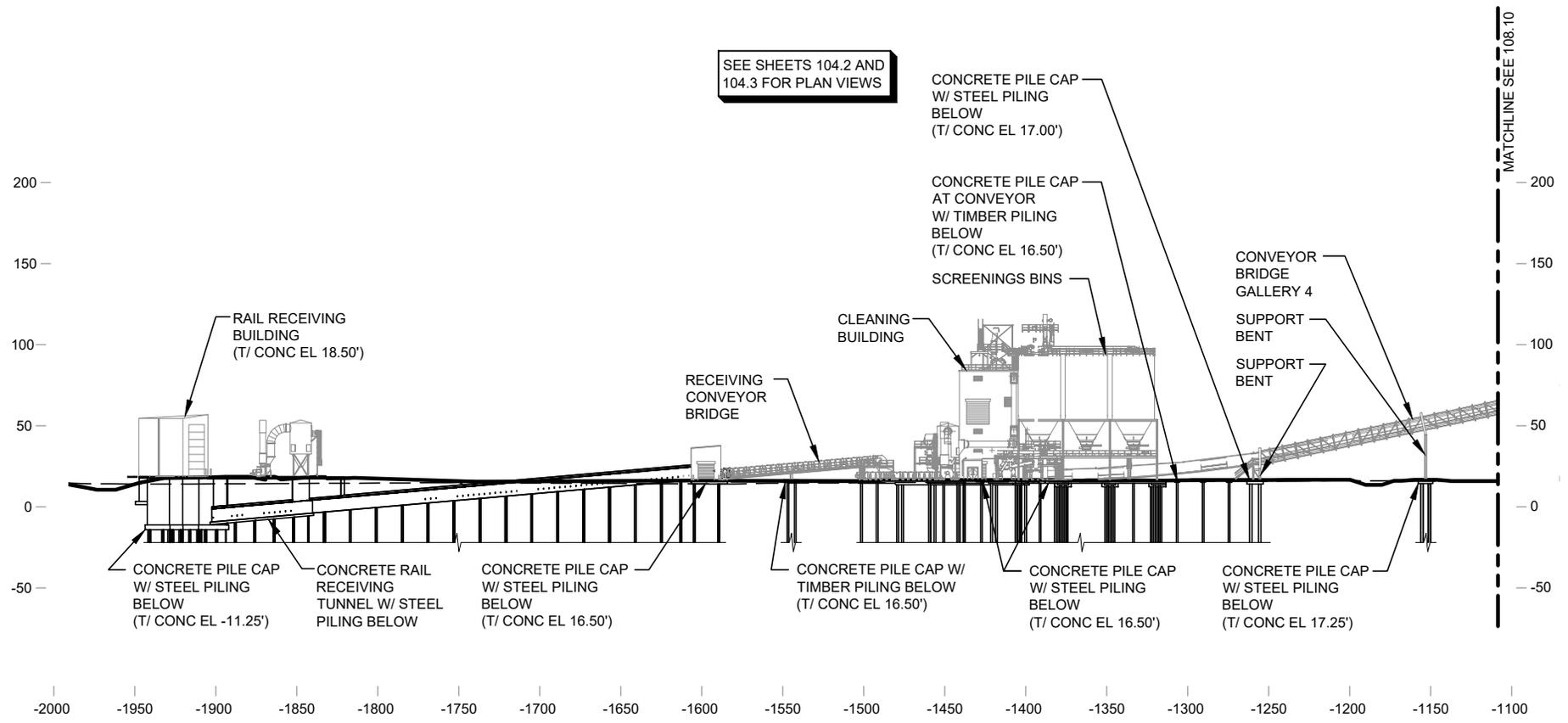
DRAWN: CLC

DATE: 06/04/21

REV: 1

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS

SEE SHEETS 104.2 AND 104.3 FOR PLAN VIEWS



LEGEND

- EXISTING GRADE TO BE REMOVED
- NEW FILL
- EXISTING GRADE
- PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



DESIGN PROVIDED BY:



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CLIENT:



GREENFIELD EXPORTS, LLC

**CROSS SECTION
RAIL RECEIVING, CLEANING, SCREENINGS
AND CONVEYOR GALLERY 4
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH**

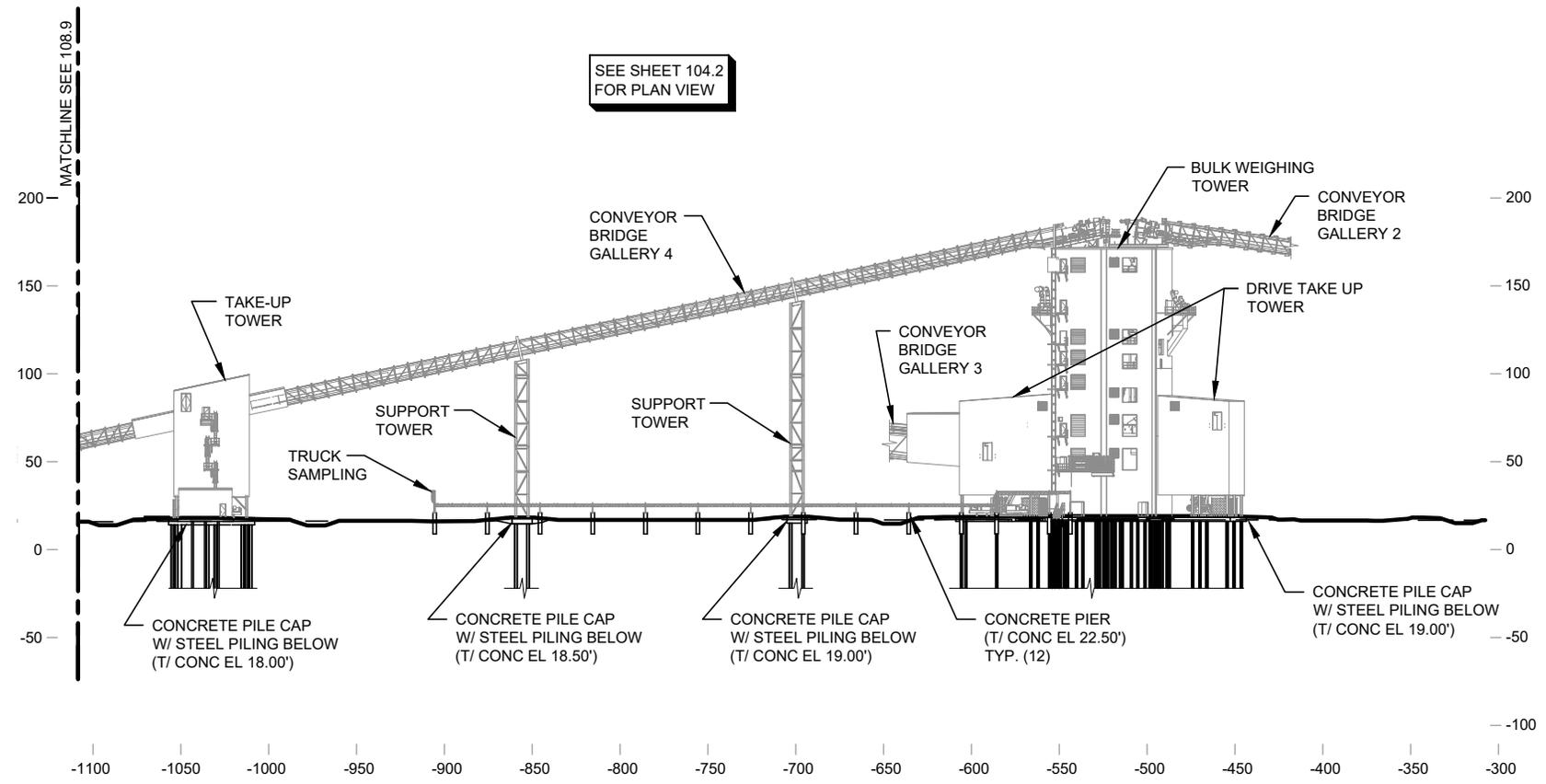
FIGURE
108.9
SHEET 23 of 41

DRAWN: CLC

DATE: 07/16/21

REV: 2

REFER TO 408 AUTHORIZATION REQUEST FOR PILE DEPTH DETAILS



LEGEND

- EXISTING GRADE TO BE REMOVED
- NEW FILL
- EXISTING GRADE
- PROPOSED GRADE

NOTE:
1. ALL ELEVATIONS SHOWN IN NAVD88

SCALE: 1" = 100'



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Suite 300
Baton Rouge, LA 70810
+1 (225) 408-2696

CLIENT:

GREENFIELD EXPORTS, LLC

**CROSS SECTION
CONVEYOR GALLERY 4 AND BULK WEIGHING TOWER**

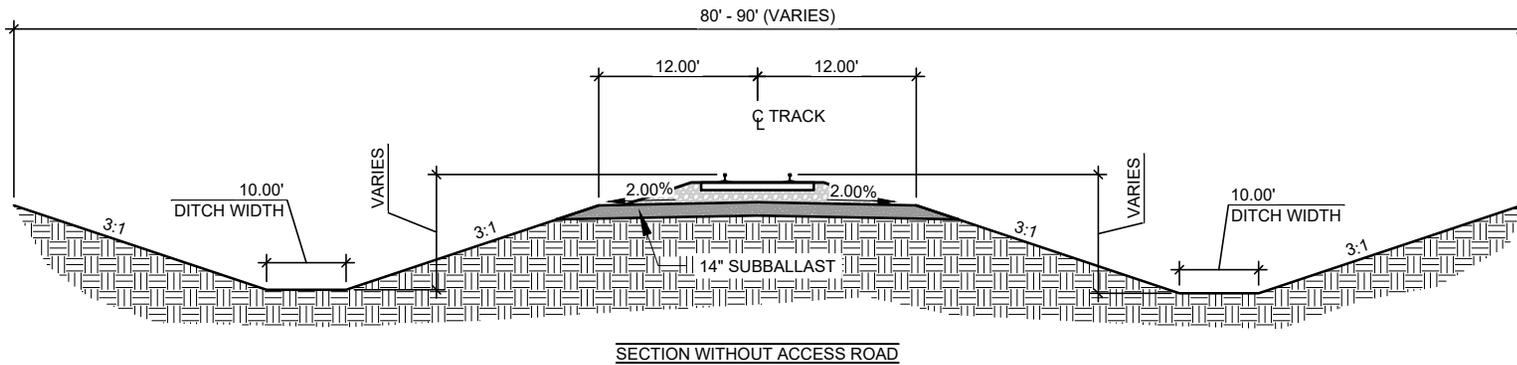
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
108.10
SHEET 24 of 41

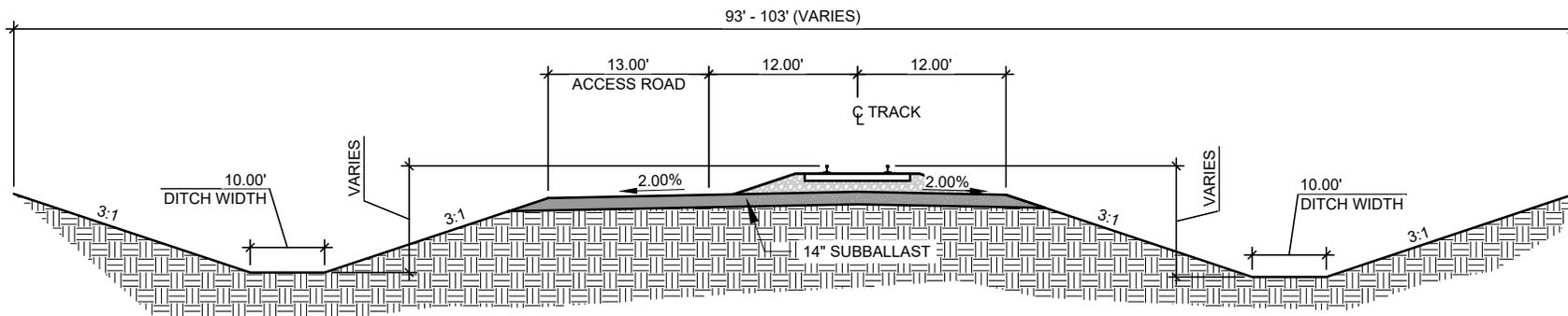
DRAWN: CLC

DATE: 07/16/21

REV: 2



SECTION WITHOUT ACCESS ROAD



SECTION WITH ACCESS ROAD

NOT TO SCALE

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CLIENT:



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CROSS SECTION - TYPICAL RAIL SECTION

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

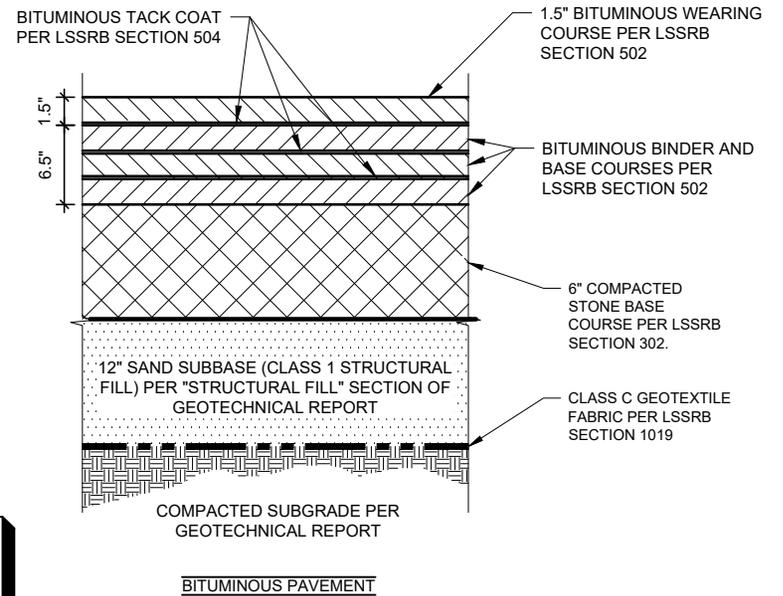
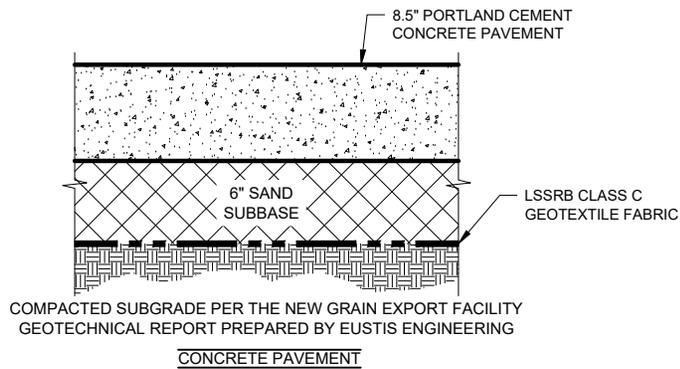
109.1

SHEET 25 of 41

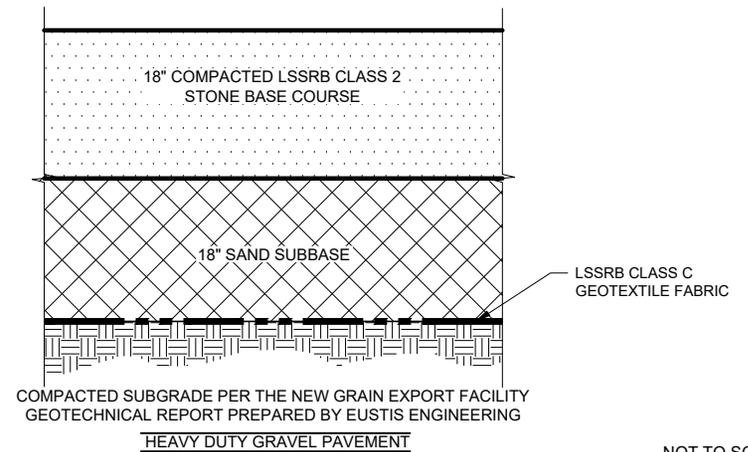
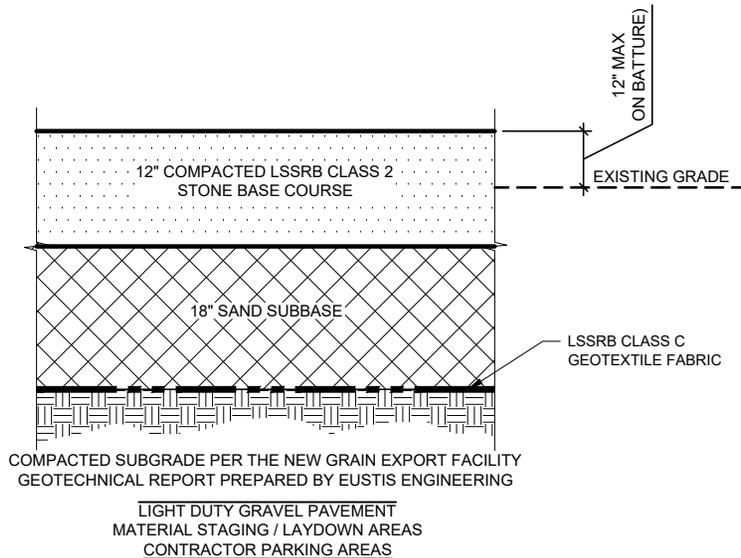
DRAWN: CMB

DATE: 06/04/20

REV: 1



NOTE:
SECTIONS WERE OBTAINED FROM NEW GRAIN EXPORT FACILITY GEOTECHNICAL EXPLORATION REPORT PREPARED BY EUSTIS ENGINEERING, PROJECT NO. 24388



NOT TO SCALE

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CLIENT:



GREENFIELD EXPORTS, LLC

CROSS SECTION - TYPICAL PAVEMENT SECTIONS

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

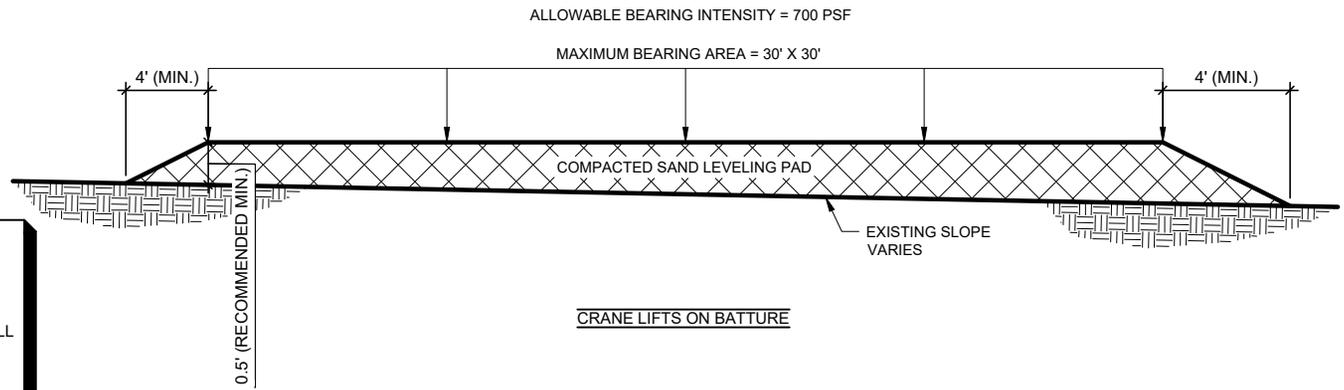
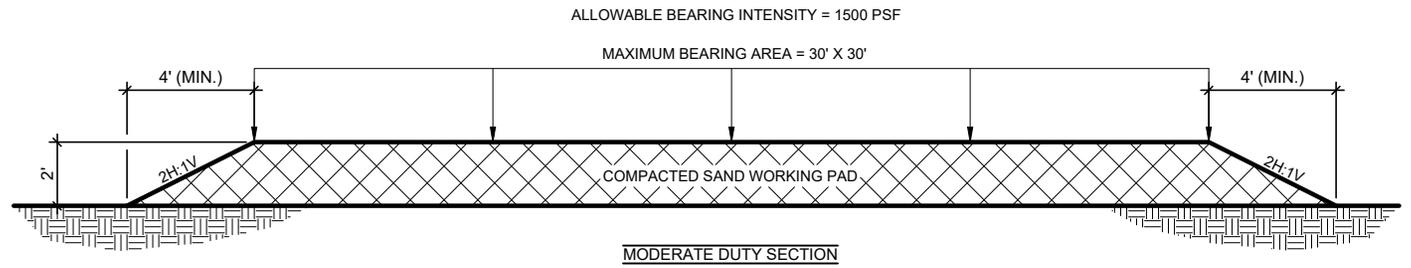
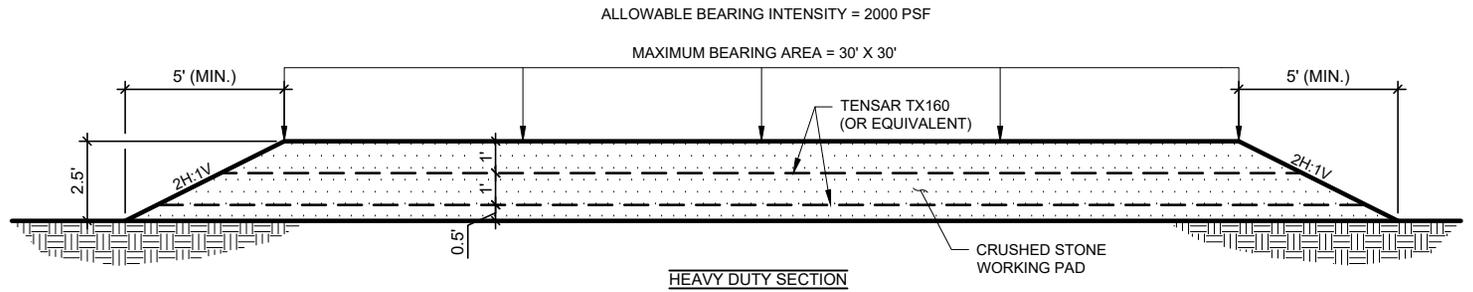
109.2

SHEET 26 of 41

DRAWN: CMB

DATE: 06/04/20

REV: 2



NOTES:
 1. SECTIONS WERE OBTAINED FROM NEW GRAIN EXPORT FACILITY GEOTECHNICAL EXPLORATION REPORT PREPARED BY EUSTIS ENGINEERING, PROJECT NO. 24388.
 2. FILL SHOWN ON THESE SECTIONS IS TEMPORARY AND WILL BE REMOVED UPON COMPLETION OF CONSTRUCTION OR AS REQUESTED BY THE DISTRICT COMMANDER DURING FLOOD EVENTS.

NOT TO SCALE

<p>DESIGN PROVIDED BY:</p>  <p>VAA, LLC 2300 Berkshire Lane N, Suite 200 Plymouth, MN 55441 763.559.9100 www.vaaeng.com Project # 200290</p>	<p>PERMIT AGENT:</p>  <p>1615 Poydras Street Suite 930 New Orleans, LA 70112 +1 (504) 648-2123</p> <p>8235 YMCA Plaza Drive Suite 300 Baton Rouge, LA 70810 +1 (225) 408-2696</p>	<p>CLIENT:</p>  <p>GREENFIELD EXPORTS, LLC</p>	<p>CROSS SECTION - TYPICAL PAVEMENT SECTIONS</p> <p>GREENFIELD LOUISIANA TERMINAL ST. JOHN THE BAPTIST PARISH</p>	<p>FIGURE 109.3 SHEET 27 of 41 DRAWN: CMB DATE: 06/04/20 REV: 2</p>
--	--	---	--	---

WETLANDS IMPACTS				
Wetland ID	Jurisdictional Status	Wetland Type	Existing Wetland Area (AC)	Wetland Area Impacted (AC)
W1A	Jurisdictional Wetland	BLH	1.8	0
W1B	Jurisdictional Wetland	BLH	1.8	0
W2A	Jurisdictional Wetland	BLH	3.8	0
W2B	Jurisdictional Wetland	BLH	11.5	0
W2C	Jurisdictional Wetland	BLH	14	0
W2D	Jurisdictional Wetland	BLH	62.5	0
W2E	Jurisdictional Wetland	BLH	21	0
W3	Jurisdictional Wetland	BLH	2.2	0
W4	Jurisdictional Wetland	BLH	10.6	0
W5A	Jurisdictional Wetland	BLH	10	0.6
W5B	Jurisdictional Wetland	BLH	0.4	0
W6	Jurisdictional Wetland	Cypress/BLH	6.9	0.5
W7	Jurisdictional Wetland	BLH	0.2	0
W8A	Jurisdictional Wetland	BLH	1	1
W8B	Jurisdictional Wetland	BLH	0.6	0.6
W9	Jurisdictional Wetland	BLH	16.3	3.5
TOTAL:			164.6	6.2

* BLH = BOTTOMLAND HARDWOODS

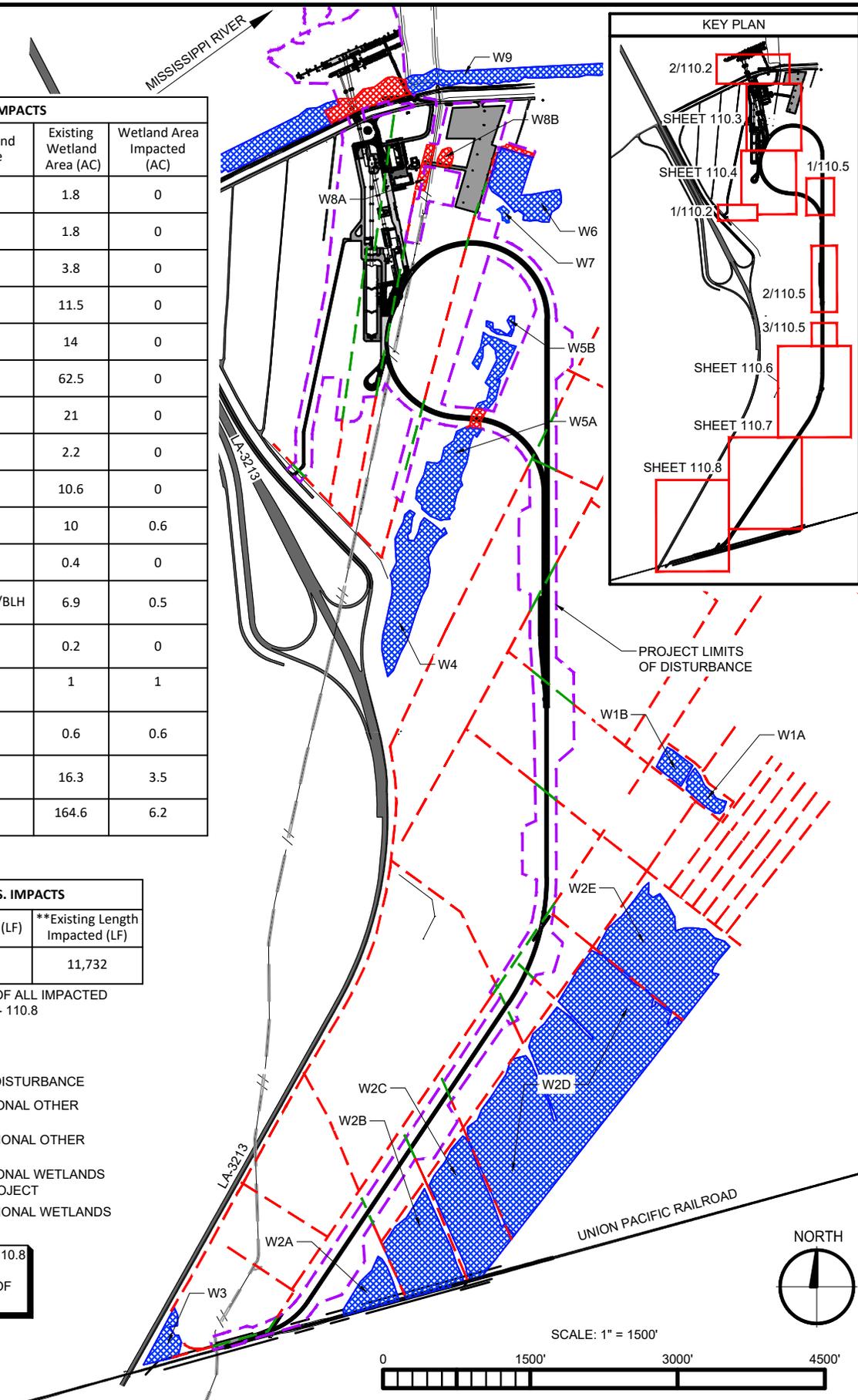
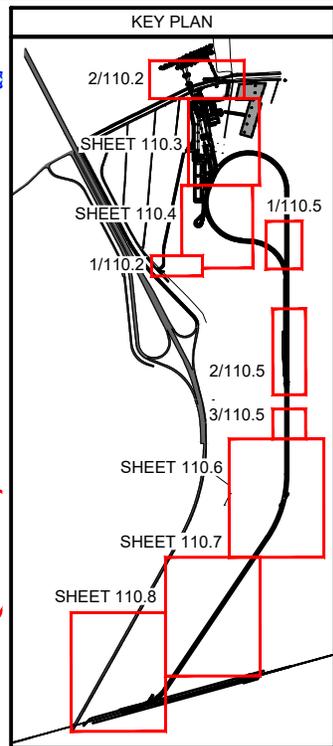
OTHER WATERS OF THE U.S. IMPACTS		
ID	Existing Length (LF)	**Existing Length Impacted (LF)
EXISTING OTHER WATERS OF THE U.S.	84,700	11,732

** IMPACTED LENGTH IS THE TOTAL OF ALL IMPACTED AREAS SHOWN ON FIGURES 110.2 - 110.8

LEGEND

- PROJECT LIMITS OF DISTURBANCE
- EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
- IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.
- EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
- IMPACTED JURISDICTIONAL WETLANDS

NOTE: REFER TO FIGURES 110.2 - 110.8 FOR ENLARGED IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.



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CLIENT:

GREENFIELD EXPORTS, LLC

WETLANDS AND WATERS
IMPACT MAP

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
110.1
SHEET 28 of 41

DRAWN: CMB
DATE: 06/04/21
REV: 3

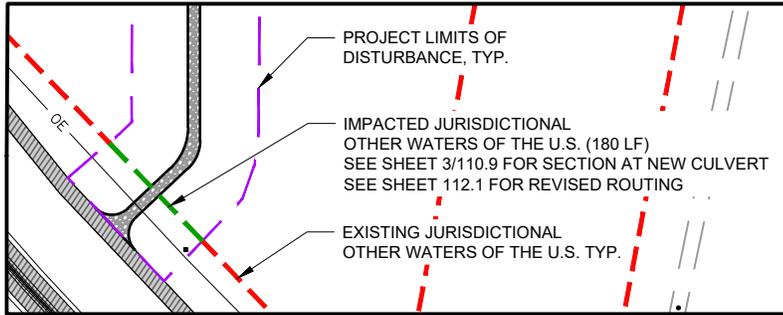
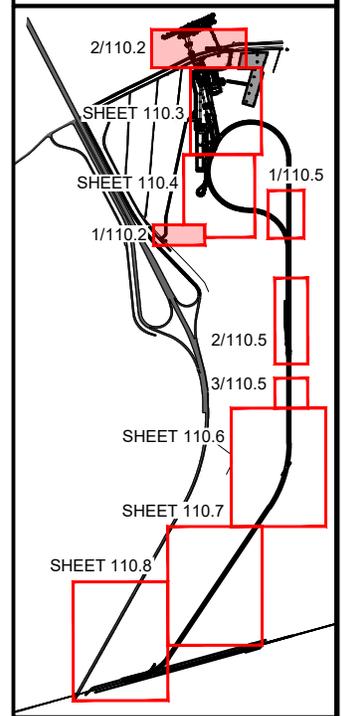
LEGEND

- PROJECT LIMITS OF DISTURBANCE
- - - EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
- - - IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.
- EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
- IMPACTED JURISDICTIONAL WETLANDS

2D AREA OF IMPROVEMENTS TOUCHING RIVER BOTTOM

WITHIN WETLAND AREA W9	
LAYDOWN AREA	2.06 AC
LEVEE CROSSING AREA	0.10 AC
VEGETATIVE CLEARING AREA	1.26 AC
PILES	0.01 AC
RIPRAP	0.07 AC
TOTAL	3.50 AC
OUTSIDE WETLAND AREA W9	
PILES	0.15 AC
RIPRAP	2.03 AC
TOTAL	2.18 AC
TOTAL:	5.68 AC

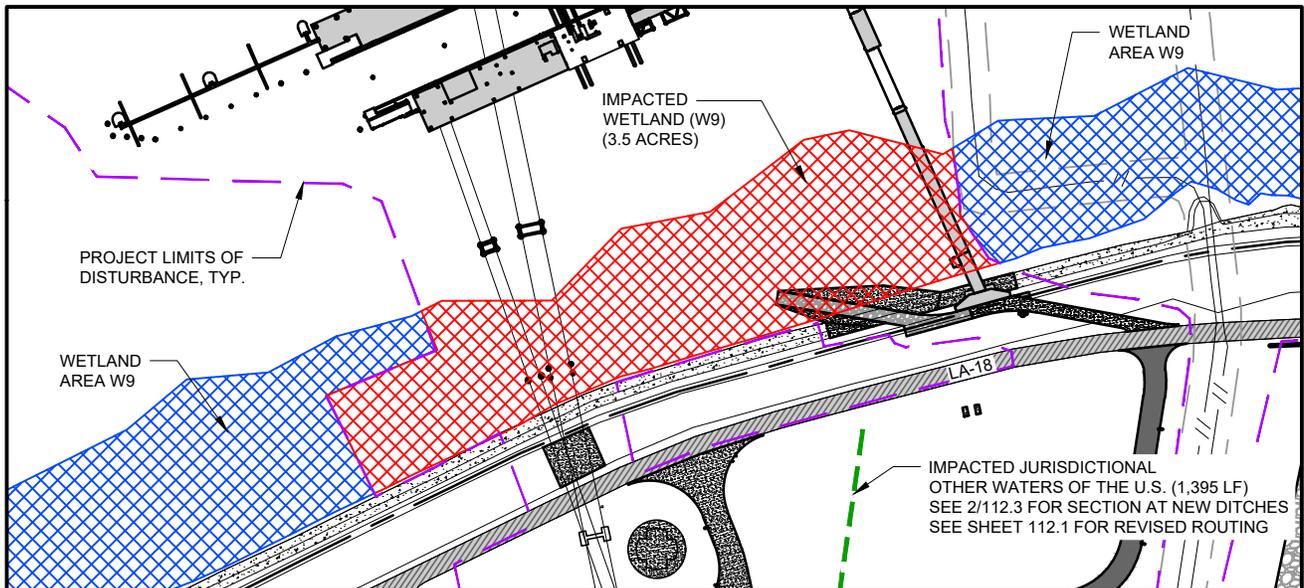
KEY PLAN



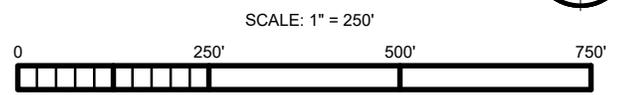
1 IMPACTED WATERS
110.2

OTHER WATERS OF THE U.S. IMPACTS		
ID	Existing Length (LF)	**Existing Length Impacted (LF)
EXISTING OTHER WATERS OF THE U.S.	84,700	11,732

** IMPACTED LENGTH IS THE TOTAL OF ALL IMPACTED AREAS SHOWN ON FIGURES 110.2 - 110.8



2 WETLAND AREA W-9
110.2



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WETLANDS AND WATERS
IMPACT MAP

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
110.2
SHEET 29 of 41

DRAWN: CMB

DATE: 07/21/21

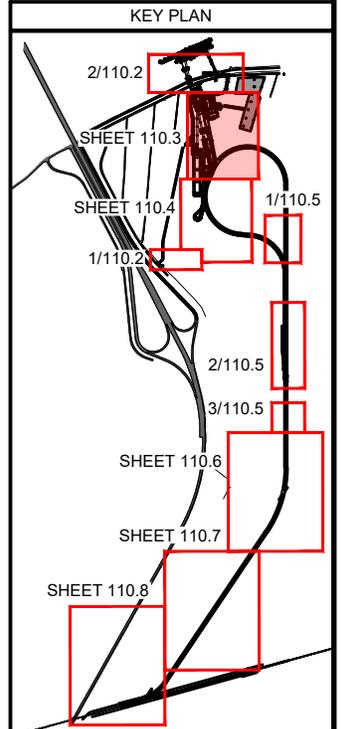
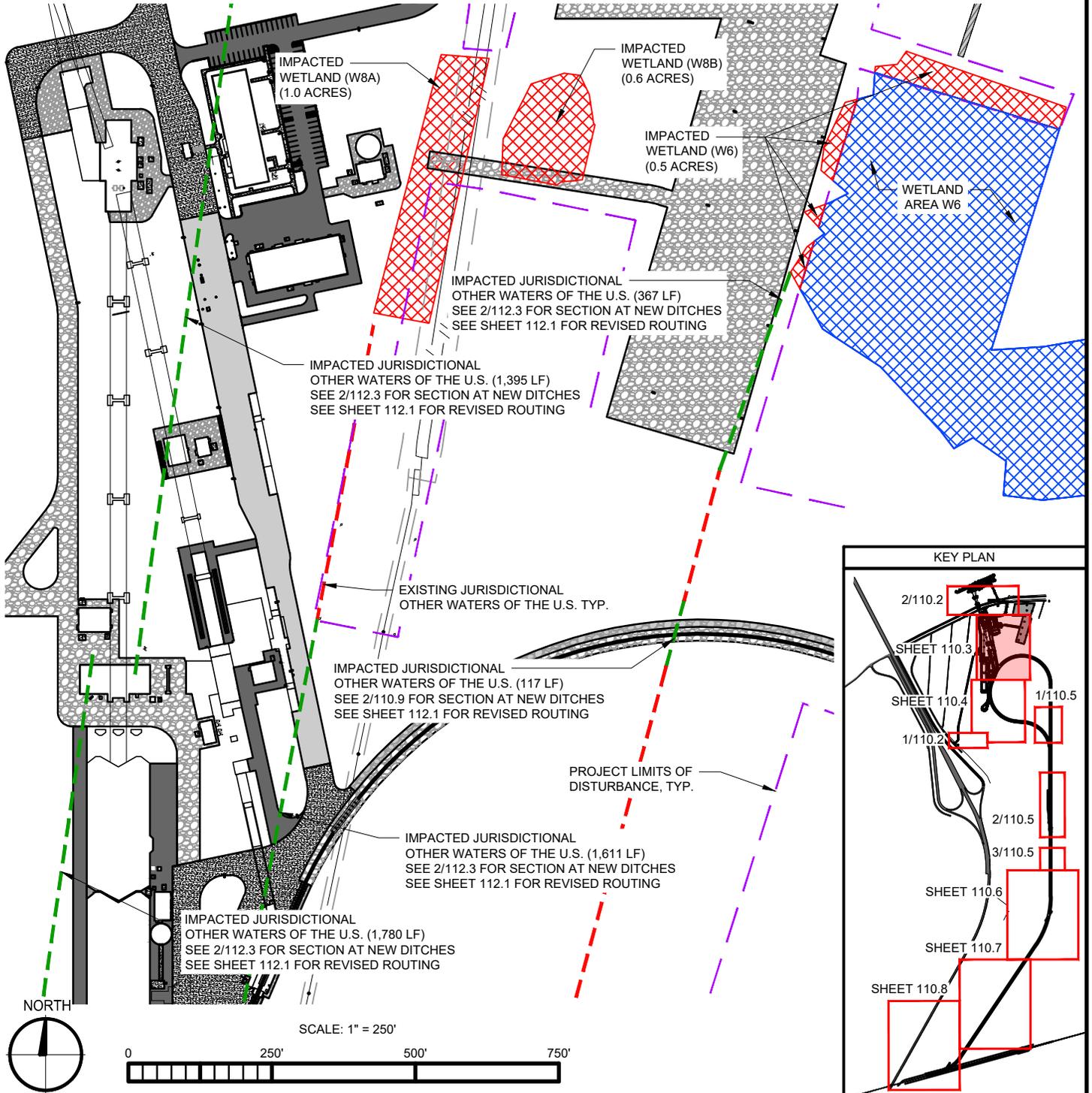
REV: 3

LEGEND

-  PROJECT LIMITS OF DISTURBANCE
-  EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
-  IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.
-  EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
-  IMPACTED JURISDICTIONAL WETLANDS
-  SUBBALLAST
-  RAIL

OTHER WATERS OF THE U.S. IMPACTS		
ID	Existing Length (LF)	**Existing Length Impacted (LF)
EXISTING OTHER WATERS OF THE U.S.	84,700	11,732

** IMPACTED LENGTH IS THE TOTAL OF ALL IMPACTED AREAS SHOWN ON FIGURES 110.2 - 110.8



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**WETLANDS AND WATERS
IMPACT MAP**

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
110.3

SHEET 30 OF 41

DRAWN: CMB

DATE: 07/21/21

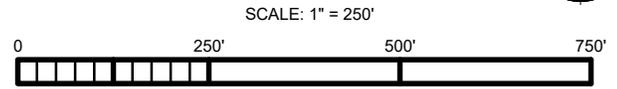
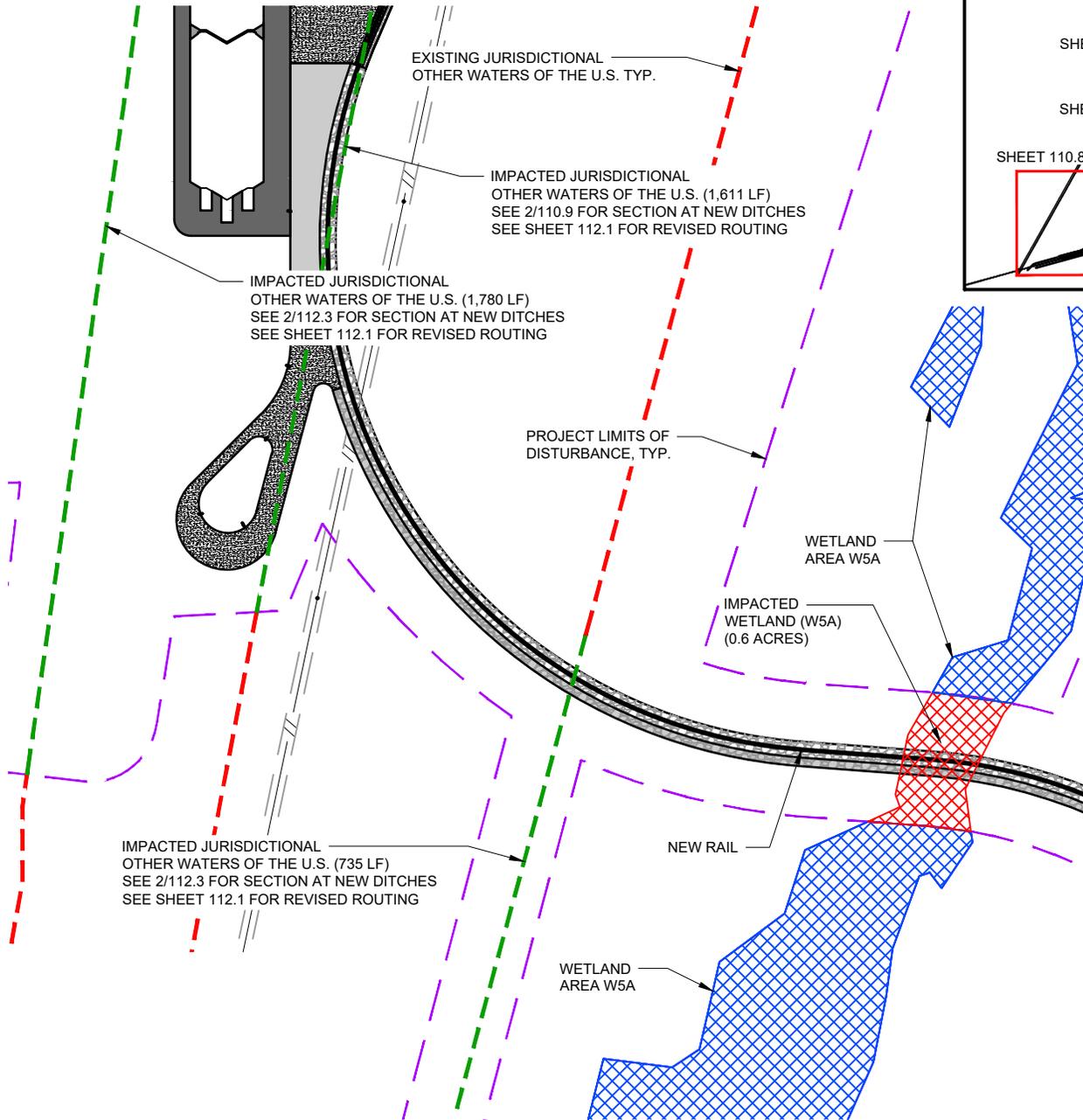
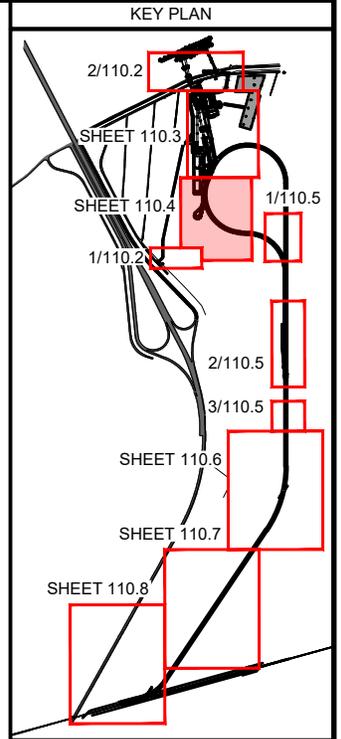
REV: 2

LEGEND

-  PROJECT LIMITS OF DISTURBANCE
-  EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
-  IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.
-  EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
-  IMPACTED JURISDICTIONAL WETLANDS
-  SUBBALLAST
-  RAIL

OTHER WATERS OF THE U.S. IMPACTS		
ID	Existing Length (LF)	**Existing Length Impacted (LF)
EXISTING OTHER WATERS OF THE U.S.	84,700	11,732

** IMPACTED LENGTH IS THE TOTAL OF ALL IMPACTED AREAS SHOWN ON FIGURES 110.2 - 110.8



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**WETLANDS AND WATERS
IMPACT MAP**

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

110.4

SHEET 31 OF 41

DRAWN: CMB

DATE: 07/21/21

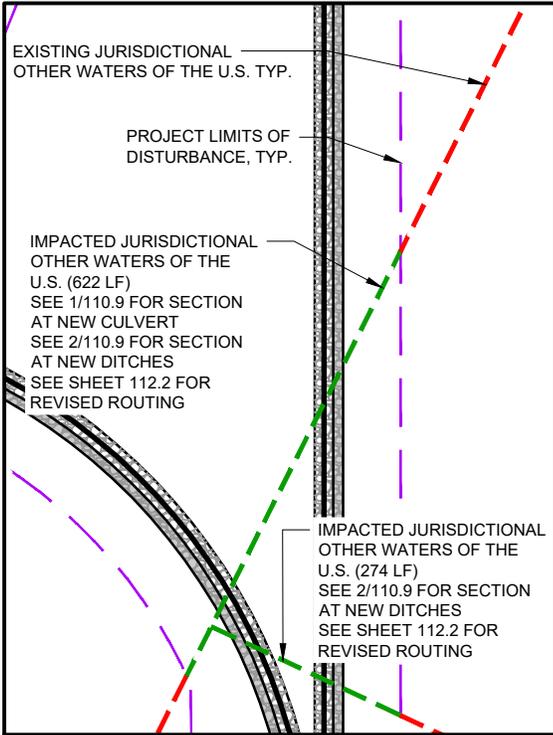
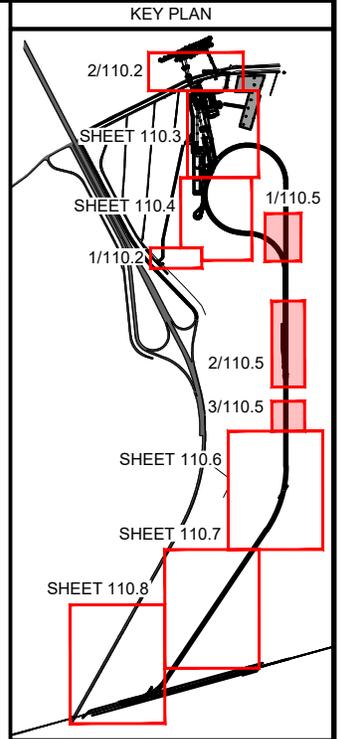
REV: 2

LEGEND

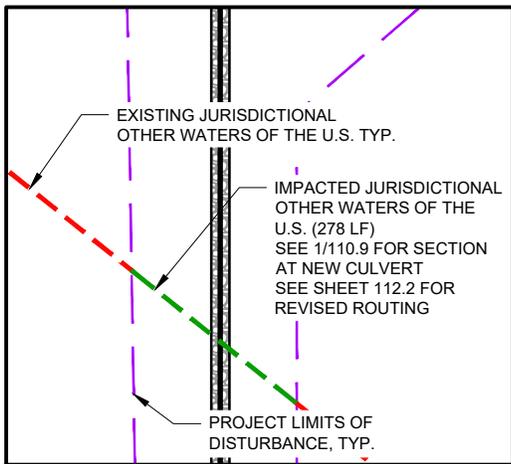
-  PROJECT LIMITS OF DISTURBANCE
-  EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
-  IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.
-  EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
-  IMPACTED JURISDICTIONAL WETLANDS
-  SUBBALLAST
-  RAIL

OTHER WATERS OF THE U.S. IMPACTS		
ID	Existing Length (LF)	**Existing Length Impacted (LF)
EXISTING OTHER WATERS OF THE U.S.	84,700	11,732

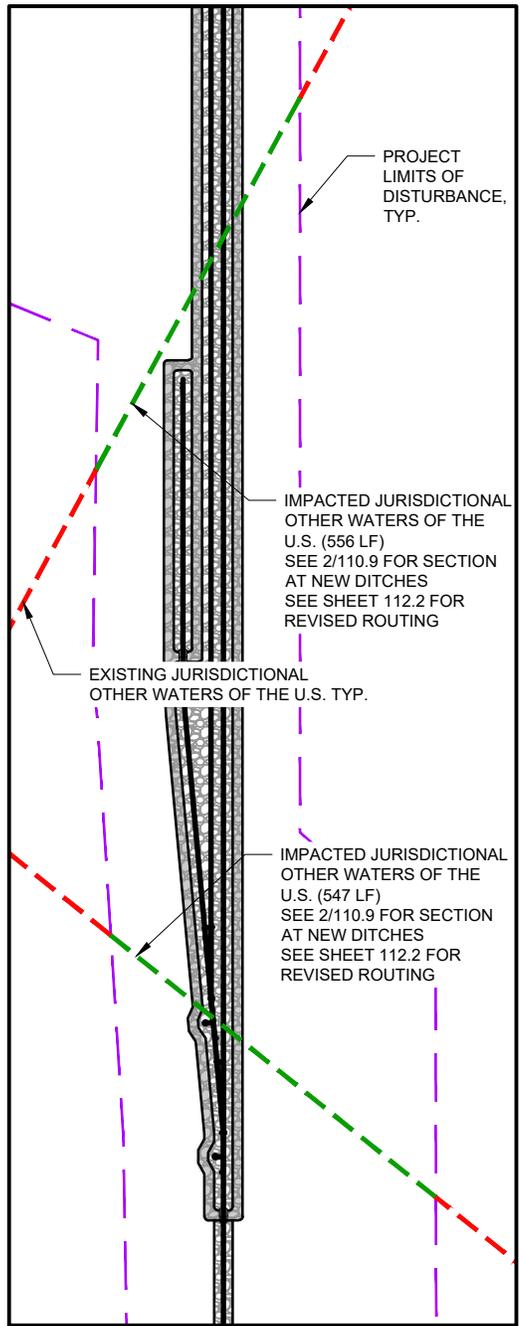
** IMPACTED LENGTH IS THE TOTAL OF ALL IMPACTED AREAS SHOWN ON FIGURES 110.2 - 110.8



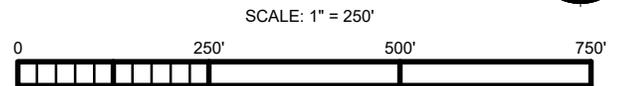
1 IMPACTED WATERS
110.5



3 IMPACTED WATERS
110.5



2 IMPACTED WATERS
110.5



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WETLANDS AND WATERS
IMPACT MAP

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

110.5

SHEET 32 of 41

DRAWN: CMB

DATE: 07/21/21

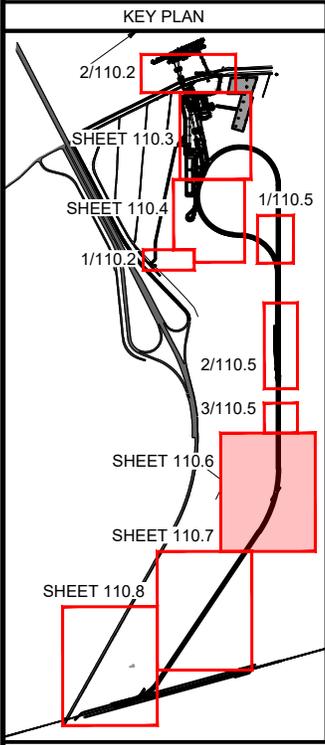
REV: 2

LEGEND

-  PROJECT LIMITS OF DISTURBANCE
-  EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
-  IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.
-  EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
-  IMPACTED JURISDICTIONAL WETLANDS
-  SUBBALLAST
-  RAIL

OTHER WATERS OF THE U.S. IMPACTS		
ID	Existing Length (LF)	**Existing Length Impacted (LF)
EXISTING OTHER WATERS OF THE U.S.	84,700	11,732

** IMPACTED LENGTH IS THE TOTAL OF ALL IMPACTED AREAS SHOWN ON FIGURES 110.2 - 110.8



IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S. (1,117 LF)
SEE 2/110.9 FOR SECTION AT NEW DITCHES
SEE SHEETS 112.2 AND 112.3 FOR REVISED ROUTING

PROJECT LIMITS OF DISTURBANCE, TYP.

IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S. (220 LF)
SEE 2/110.9 FOR SECTION AT NEW DITCHES
SEE SHEET 112.3 FOR REVISED ROUTING

IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S. (43 LF)
SEE 2/110.9 FOR SECTION AT NEW DITCHES
SEE SHEET 112.3 FOR REVISED ROUTING

IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S. (325 LF)
SEE 1/110.9 FOR SECTION AT NEW CULVERT
SEE SHEET 112.3 FOR REVISED ROUTING

EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S. TYP.

W2E

W2D

W2D



SCALE: 1" = 250'



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WETLANDS AND WATERS
IMPACT MAP

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
110.6
SHEET 33 of 41

DRAWN: CMB
DATE: 06/04/21
REV: 2

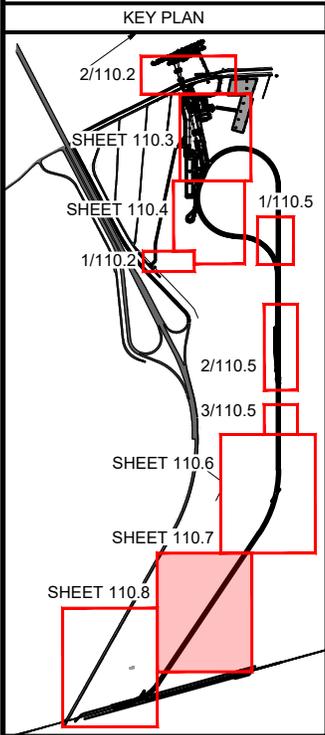
LEGEND

-  PROJECT LIMITS OF DISTURBANCE
-  EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
-  IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.
-  EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
-  IMPACTED JURISDICTIONAL WETLANDS
-  SUBBALLAST
-  RAIL

IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S. (254 LF)
SEE 1/110.9 FOR SECTION AT NEW CULVERT
SEE SHEET 112.3 FOR REVISED ROUTING

OTHER WATERS OF THE U.S. IMPACTS		
ID	Existing Length (LF)	**Existing Length Impacted (LF)
EXISTING OTHER WATERS OF THE U.S.	84,700	11,732

** IMPACTED LENGTH IS THE TOTAL OF ALL IMPACTED AREAS SHOWN ON FIGURES 110.2 - 110.8

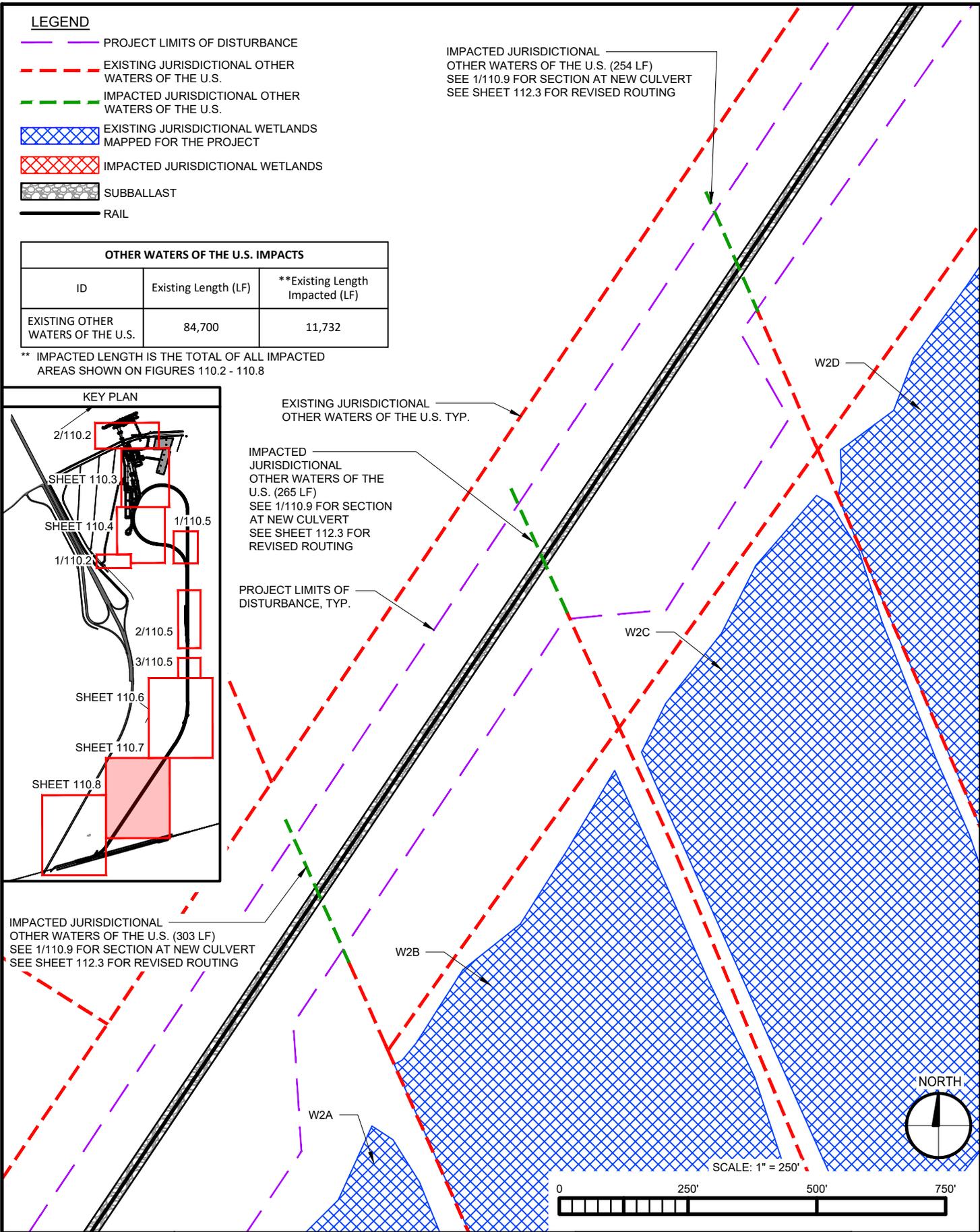


EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S. TYP.

IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S. (265 LF)
SEE 1/110.9 FOR SECTION AT NEW CULVERT
SEE SHEET 112.3 FOR REVISED ROUTING

PROJECT LIMITS OF DISTURBANCE, TYP.

IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S. (303 LF)
SEE 1/110.9 FOR SECTION AT NEW CULVERT
SEE SHEET 112.3 FOR REVISED ROUTING



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**WETLANDS AND WATERS
IMPACT MAP**

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

110.7

SHEET 34 of 41

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DATE: 06/04/21

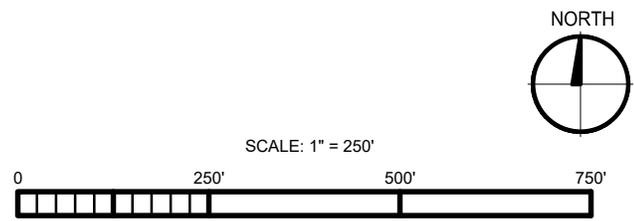
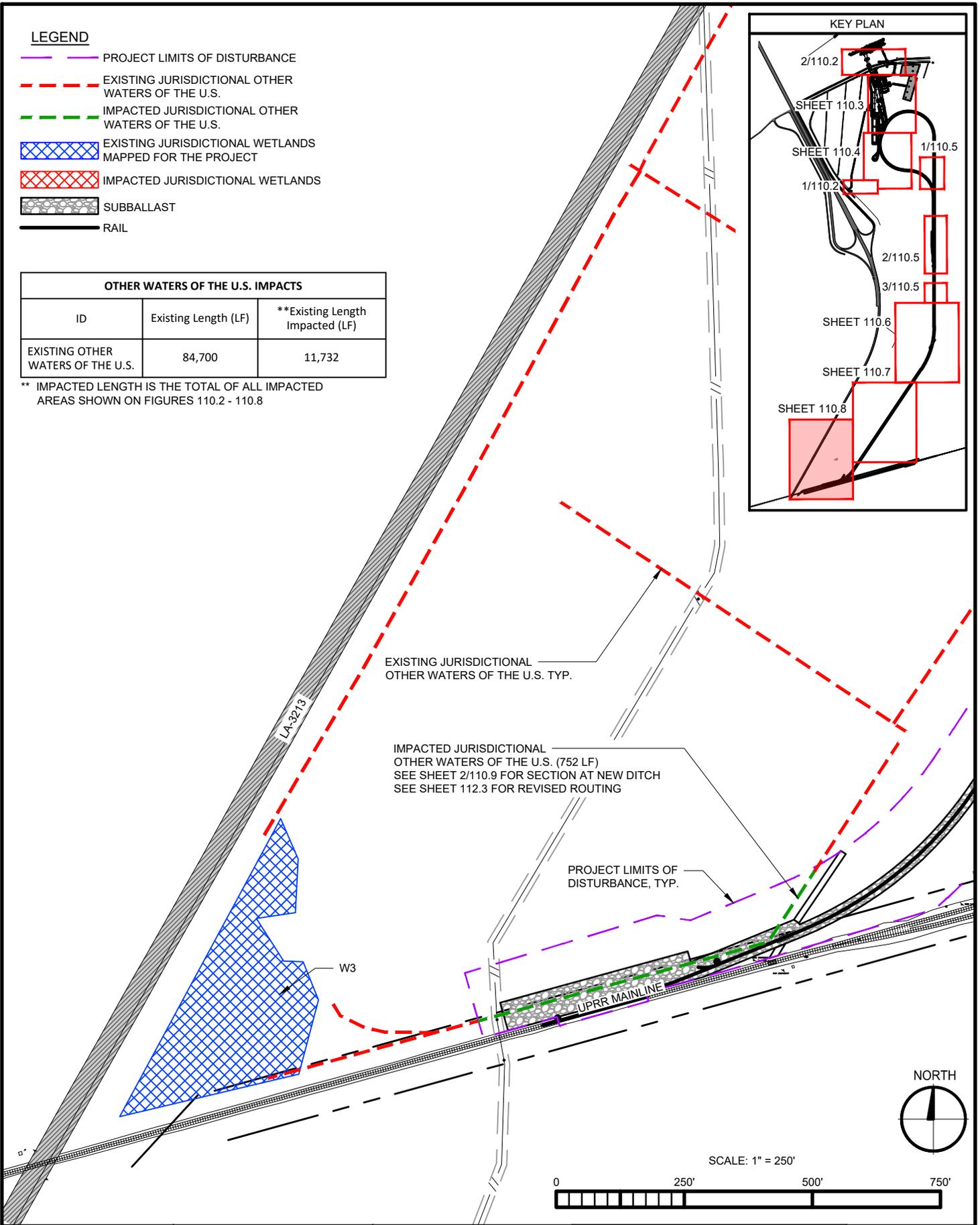
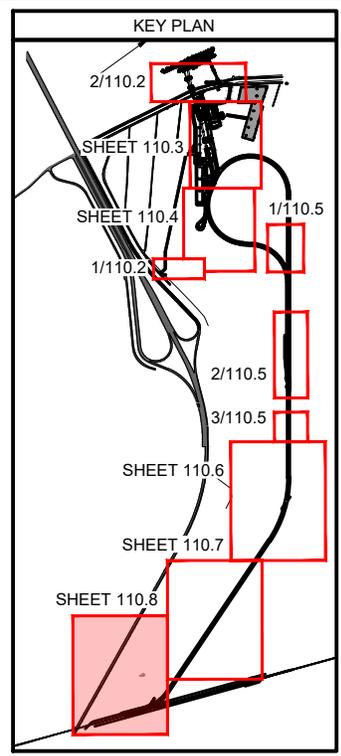
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LEGEND

-  PROJECT LIMITS OF DISTURBANCE
-  EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
-  IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.
-  EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
-  IMPACTED JURISDICTIONAL WETLANDS
-  SUBBALLAST
-  RAIL

OTHER WATERS OF THE U.S. IMPACTS		
ID	Existing Length (LF)	**Existing Length Impacted (LF)
EXISTING OTHER WATERS OF THE U.S.	84,700	11,732

** IMPACTED LENGTH IS THE TOTAL OF ALL IMPACTED AREAS SHOWN ON FIGURES 110.2 - 110.8



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WETLANDS AND WATERS
IMPACT MAP

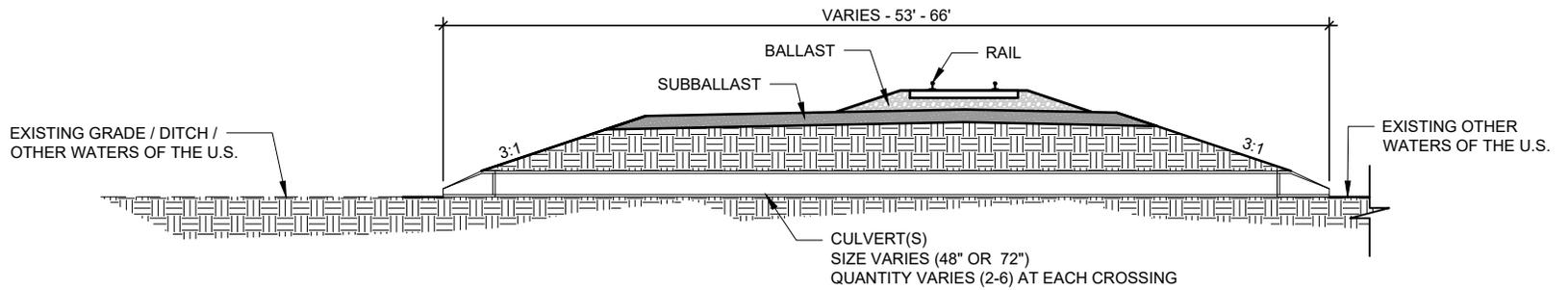
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
110.8
SHEET 35 of 41

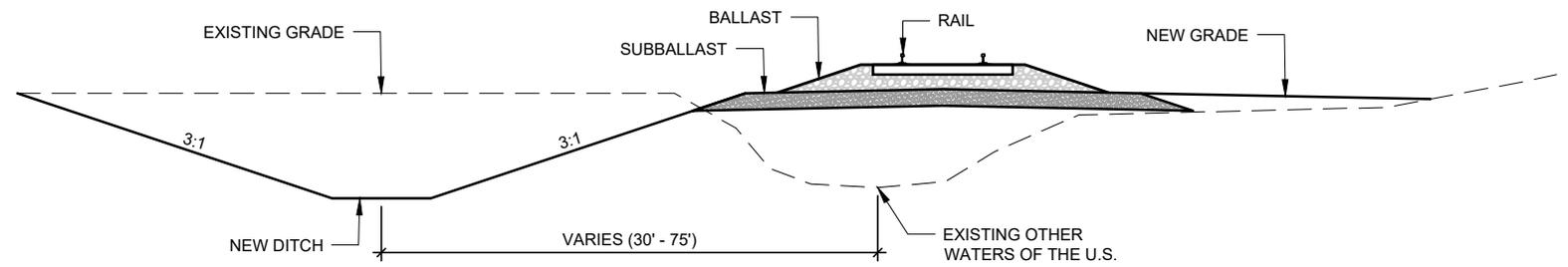
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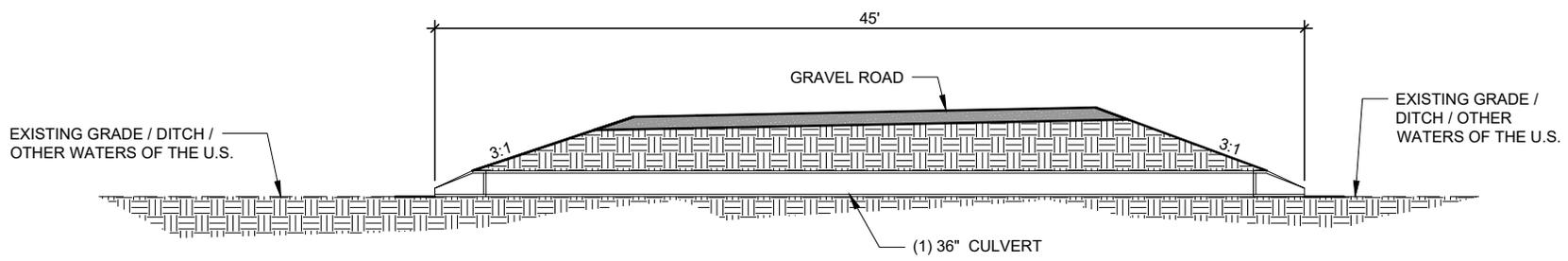
REV: 0



1 TYPICAL CROSS SECTION THROUGH NEW CULVERT
110.9



2 CROSS SECTION THROUGH NEW DITCH
110.9



3 CROSS SECTION THROUGH NEW CULVERT
110.9

NOT TO SCALE

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CROSS SECTION - TYPICAL SECTIONS AT IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

110.9

SHEET 36 of 41

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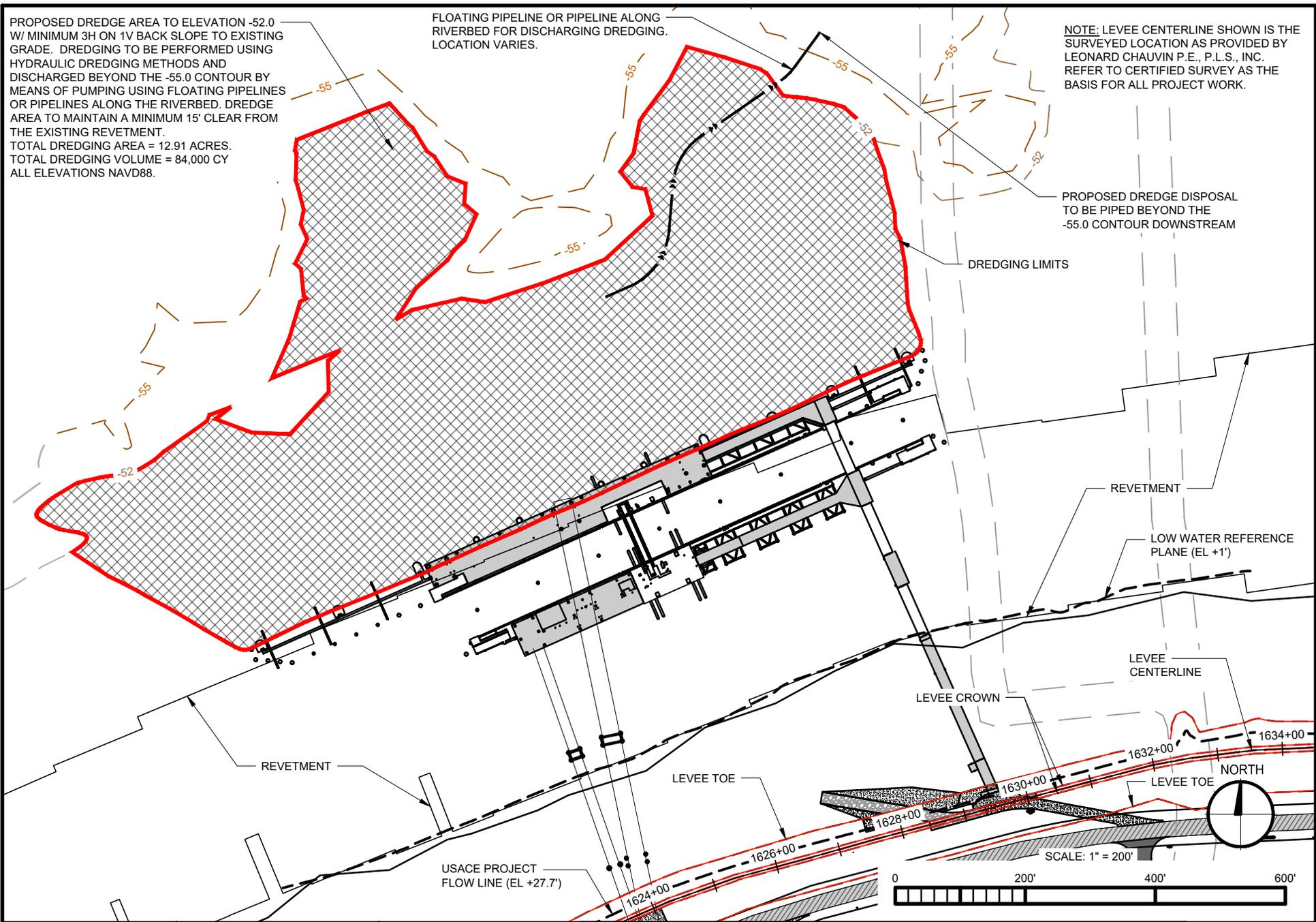
REV: 0

PROPOSED DREDGE AREA TO ELEVATION -52.0 W/ MINIMUM 3H ON 1V BACK SLOPE TO EXISTING GRADE. DREDGING TO BE PERFORMED USING HYDRAULIC DREDGING METHODS AND DISCHARGED BEYOND THE -55.0 CONTOUR BY MEANS OF PUMPING USING FLOATING PIPELINES OR PIPELINES ALONG THE RIVERBED. DREDGE AREA TO MAINTAIN A MINIMUM 15' CLEAR FROM THE EXISTING REVETMENT. TOTAL DREDGING AREA = 12.91 ACRES. TOTAL DREDGING VOLUME = 84,000 CY ALL ELEVATIONS NAVD88.

FLOATING PIPELINE OR PIPELINE ALONG RIVERBED FOR DISCHARGING DREDGING. LOCATION VARIES.

NOTE: LEVEE CENTERLINE SHOWN IS THE SURVEYED LOCATION AS PROVIDED BY LEONARD CHAUVIN P.E., P.L.S., INC. REFER TO CERTIFIED SURVEY AS THE BASIS FOR ALL PROJECT WORK.

PROPOSED DREDGE DISPOSAL TO BE PIPED BEYOND THE -55.0 CONTOUR DOWNSTREAM



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DETAIL VIEW - DREDGING LAYOUT

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

111

SHEET 37 of 41

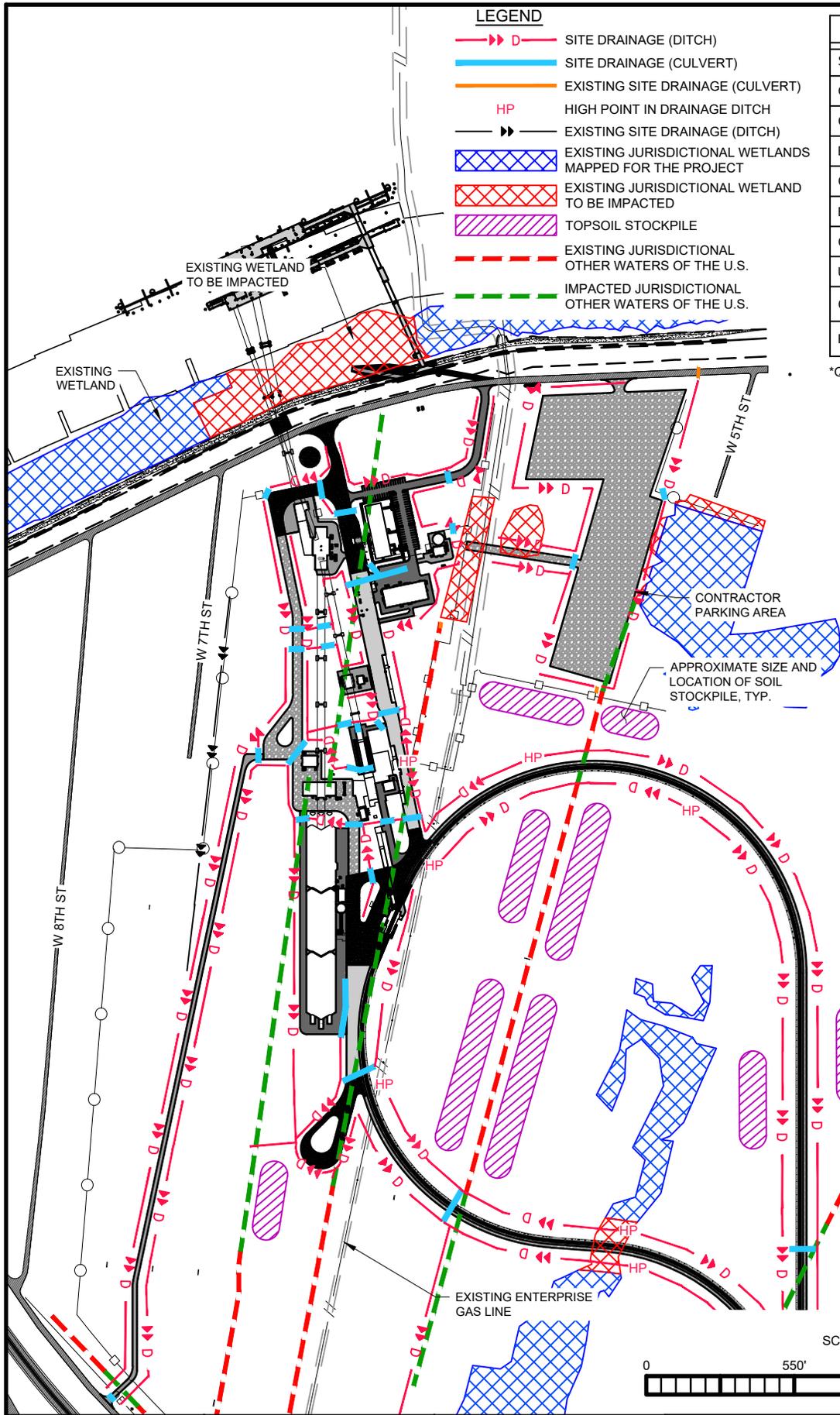
DRAWN: CMB

DATE: 07/21/21

REV: 2

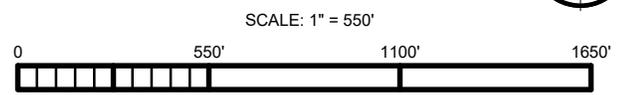
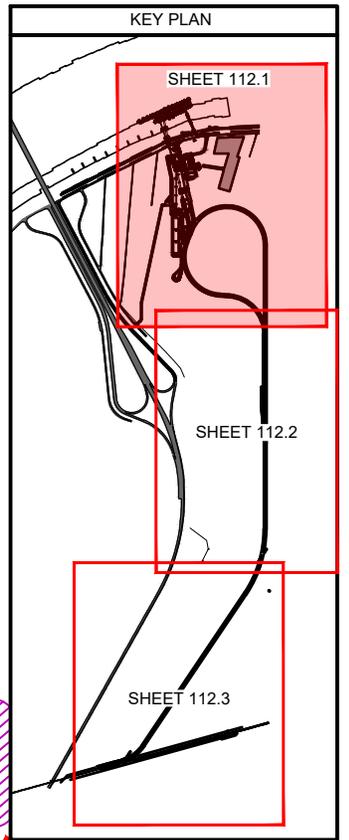
LEGEND

- ▶▶ D SITE DRAINAGE (DITCH)
- ▶▶ SITE DRAINAGE (CULVERT)
- ▶▶ EXISTING SITE DRAINAGE (CULVERT)
- HP** HIGH POINT IN DRAINAGE DITCH
- ▶▶ EXISTING SITE DRAINAGE (DITCH)
- X X X X EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
- X X X X EXISTING JURISDICTIONAL WETLAND TO BE IMPACTED
- / / / / TOPSOIL STOCKPILE
- EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
- IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.



MATERIAL	QUANTITY (CY)
SAND	111,000
GRAVEL	119,000
CONCRETE	3,550
BITUMINOUS	3,500
CUT (RETAINED ON SITE)	278,000
EARTHEN FILL	225,500
CONCRETE FOUNDATIONS	22,500
UTILITY BEDDING	850
CONCRETE DUCTBANKS	285
RIPRAP	1,130

*QUANTITIES SHOWN ARE FOR THE FULL SITE



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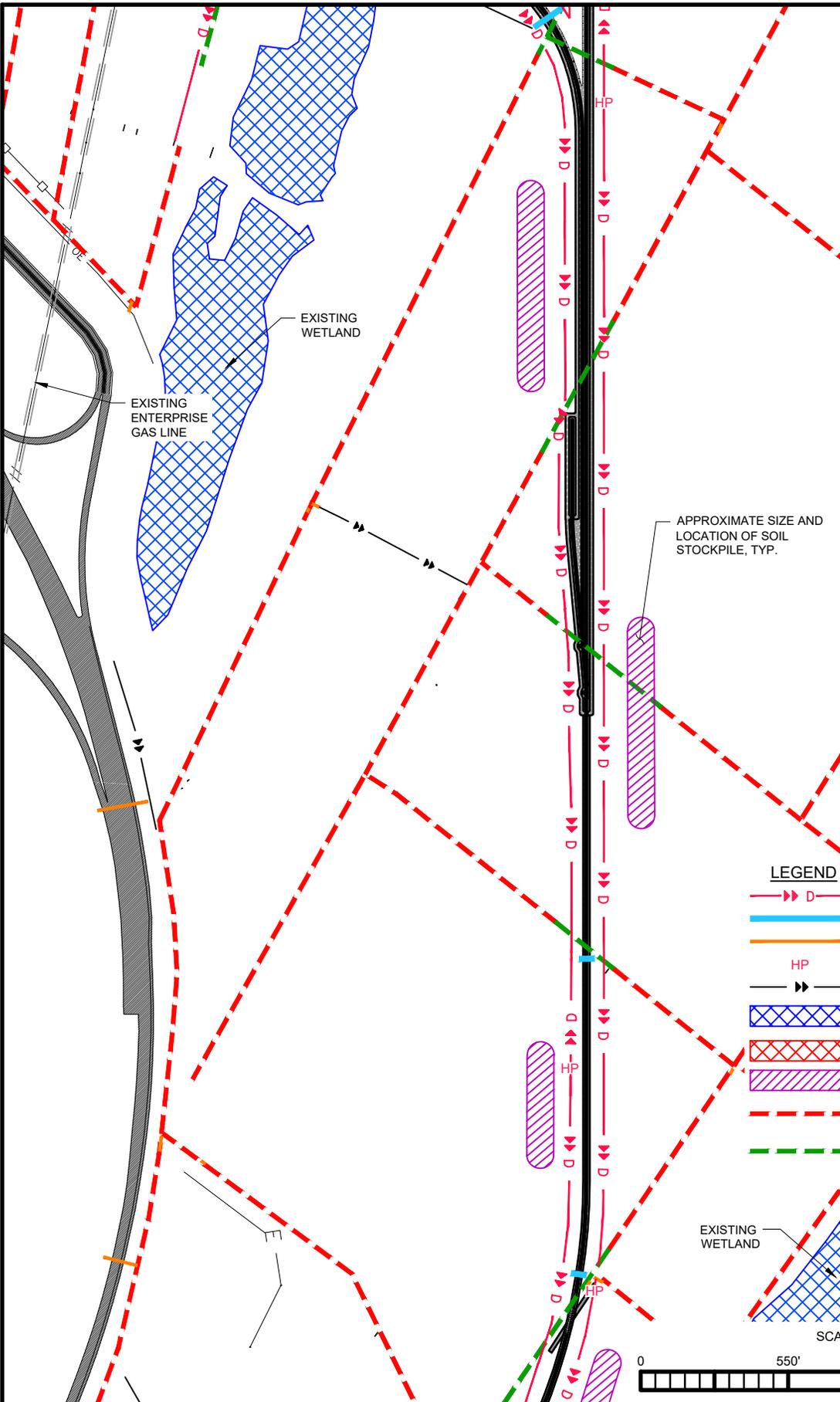
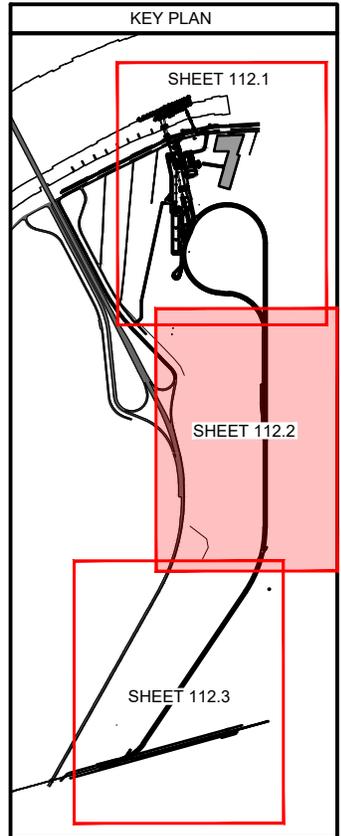
SITE DRAINAGE

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
112.1
SHEET 38 OF 41

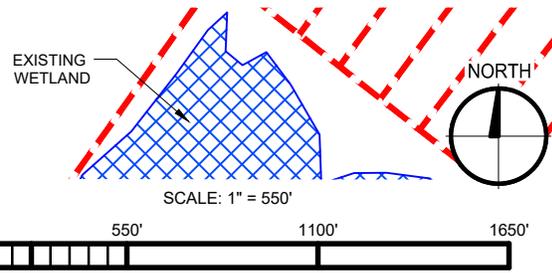
DRAWN: CMB
DATE: 07/21/21
REV: 4

* REFER TO TABLE ON SHEET 112.1 FOR SITE MATERIAL QUANTITIES



LEGEND

- SITE DRAINAGE (DITCH)
- SITE DRAINAGE (CULVERT)
- EXISTING SITE DRAINAGE (CULVERT)
- HP** HIGH POINT IN DRAINAGE DITCH
- EXISTING SITE DRAINAGE (DITCH)
- EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
- EXISTING JURISDICTIONAL WETLAND TO BE IMPACTED
- TOPSOIL STOCKPILE
- EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
- IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.



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CLIENT:



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SITE DRAINAGE

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

112.2

SHEET 39 OF 41

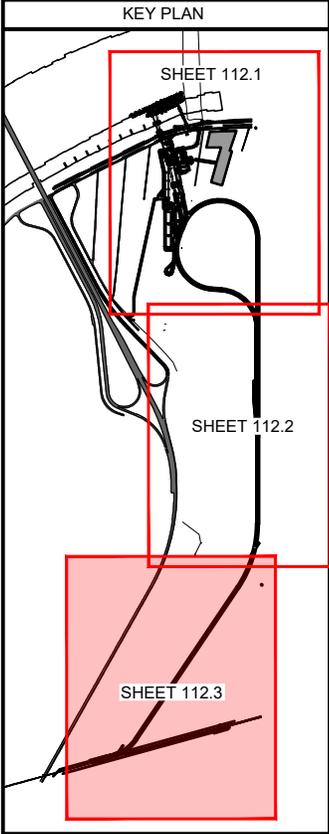
DRAWN: CMB

DATE: 06/04/21

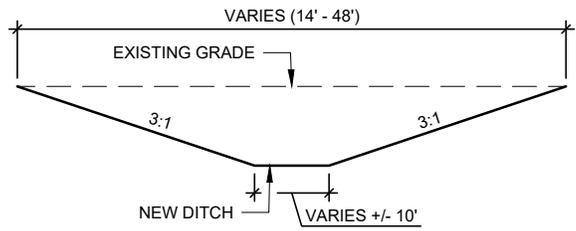
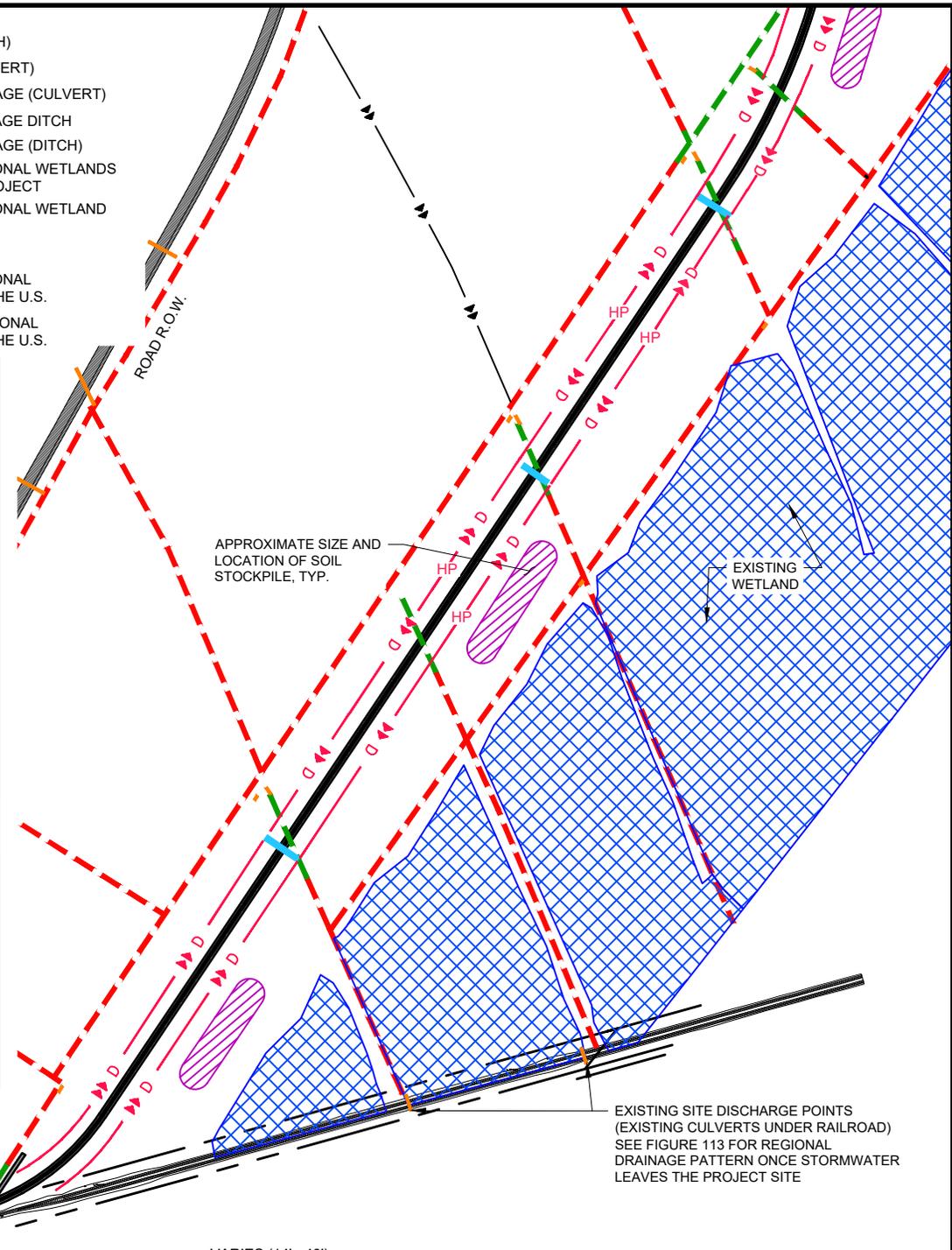
REV: 2

LEGEND

- SITE DRAINAGE (DITCH)
- SITE DRAINAGE (CULVERT)
- EXISTING SITE DRAINAGE (CULVERT)
- HP** HIGH POINT IN DRAINAGE DITCH
- EXISTING SITE DRAINAGE (DITCH)
- EXISTING JURISDICTIONAL WETLANDS MAPPED FOR THE PROJECT
- EXISTING JURISDICTIONAL WETLAND TO BE IMPACTED
- TOPSOIL STOCKPILE
- EXISTING JURISDICTIONAL OTHER WATERS OF THE U.S.
- IMPACTED JURISDICTIONAL OTHER WATERS OF THE U.S.

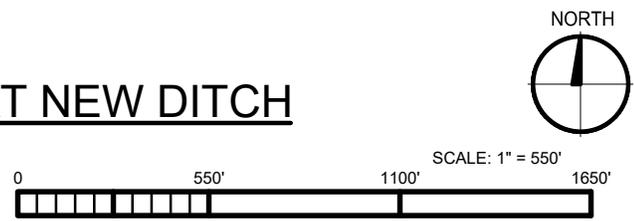


* REFER TO TABLE ON SHEET 112.1 FOR SITE MATERIAL QUANTITIES



2 TYPICAL SECTION AT NEW DITCH

112.3



DESIGN PROVIDED BY:

VAA, LLC
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+1 (225) 408-2696

CLIENT:

GREENFIELD EXPORTS, LLC

SITE DRAINAGE

GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE

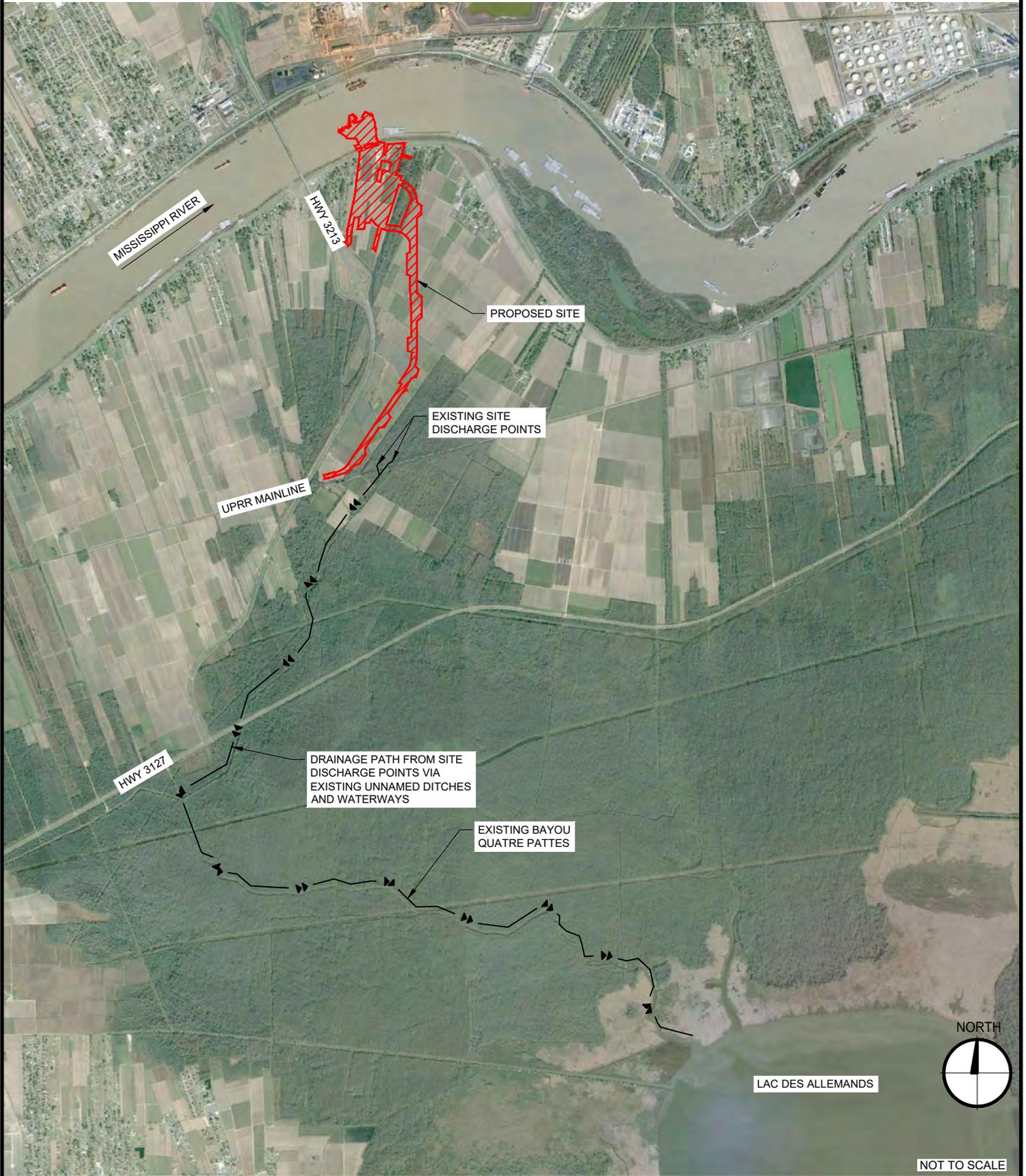
112.3

SHEET 40 OF 41

DRAWN: CMB

DATE: 06/04/21

REV: 3



NOT TO SCALE

DESIGN PROVIDED BY:



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CLIENT:



GREENFIELD EXPORTS, LLC

REGIONAL
DRAINAGE MAP
GREENFIELD LOUISIANA TERMINAL
ST. JOHN THE BAPTIST PARISH

FIGURE
113
SHEET 41 of 41
DRAWN: CMB
DATE: 10/29/21
REV: 1