

# JOINT PUBLIC NOTICE

14 May 2018

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

(504) 862-2279  
[kara.vick@usace.army.mil](mailto:kara.vick@usace.army.mil)  
Project Manager  
Kara Vick  
Permit Application Number  
MVN 2018-00049-EV

State of Louisiana  
Department of Environmental Quality  
ATTN: Water Quality Certifications  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

(225) 219-3225  
Project Manager  
Elizabeth Hill  
WQC Application Number  
WQC 180509-01

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).

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 LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

## **PROPOSED SUBSTATION in JEFFERSON PARISH**

**NAME OF APPLICANT:** Entergy Louisiana, LLC, ATTN: Morris P. Hebert, Inc., Mr. Timothy Robertson, at 10343 Siegen Lane, Building 4-B, Baton Rouge, Louisiana 70810.

**LOCATION OF WORK:** Located off of Nicolle Boulevard in Lafitte, in Jefferson Parish, Louisiana as shown on the attached drawings.

**HUC:** 08090301; East – Central Louisiana Coastal

**CHARACTER OF WORK:** To install a new 3.6 acre Churchill Substation and installing electrical lines and poles to connect the proposed substation to existing lines/poles and to connect to the existing Westwego Substation. All new line and pole installations will be installed within or adjacent to existing Entergy right of ways (ROW). Forty-one new electrical poles will be installed between the proposed Churchill substation and the existing Westwego substation. Entergy is also proposing to improve an existing access road within their existing ROW to access the proposed Churchill substation. This project would require permanent impacts totaling 3.74 acres of bottomland hardwood wetlands and a conversion of 10.21 acres of bottomland hardwood wetlands to herbaceous wetlands. The applicant proposes to purchase credits from a mitigation bank to offset any unavoidable losses to wetland functions caused by project implementation.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close 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 BRANCH. 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. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work would neither affect any species listed as endangered, nor habitat designated as critical to the survival and recovery of species listed as

endangered by the U.S. Department of Commerce.

Utilizing Standard Local Operating Procedure for Endangered Species in Louisiana (SLOPES), dated October 22, 2014, between the U.S. Army Corps of Engineers, New Orleans and U.S. Fish and Wildlife Service, Ecological Services Office, the Corps has determined that the proposed activity would have no effect on any listed species nor affect any habitat designated as critical to the survival and recovery of any endangered species of concern to the USFW.

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 N/A acre 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 applicable water quality standards will be required from the Department of Environmental Quality 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.

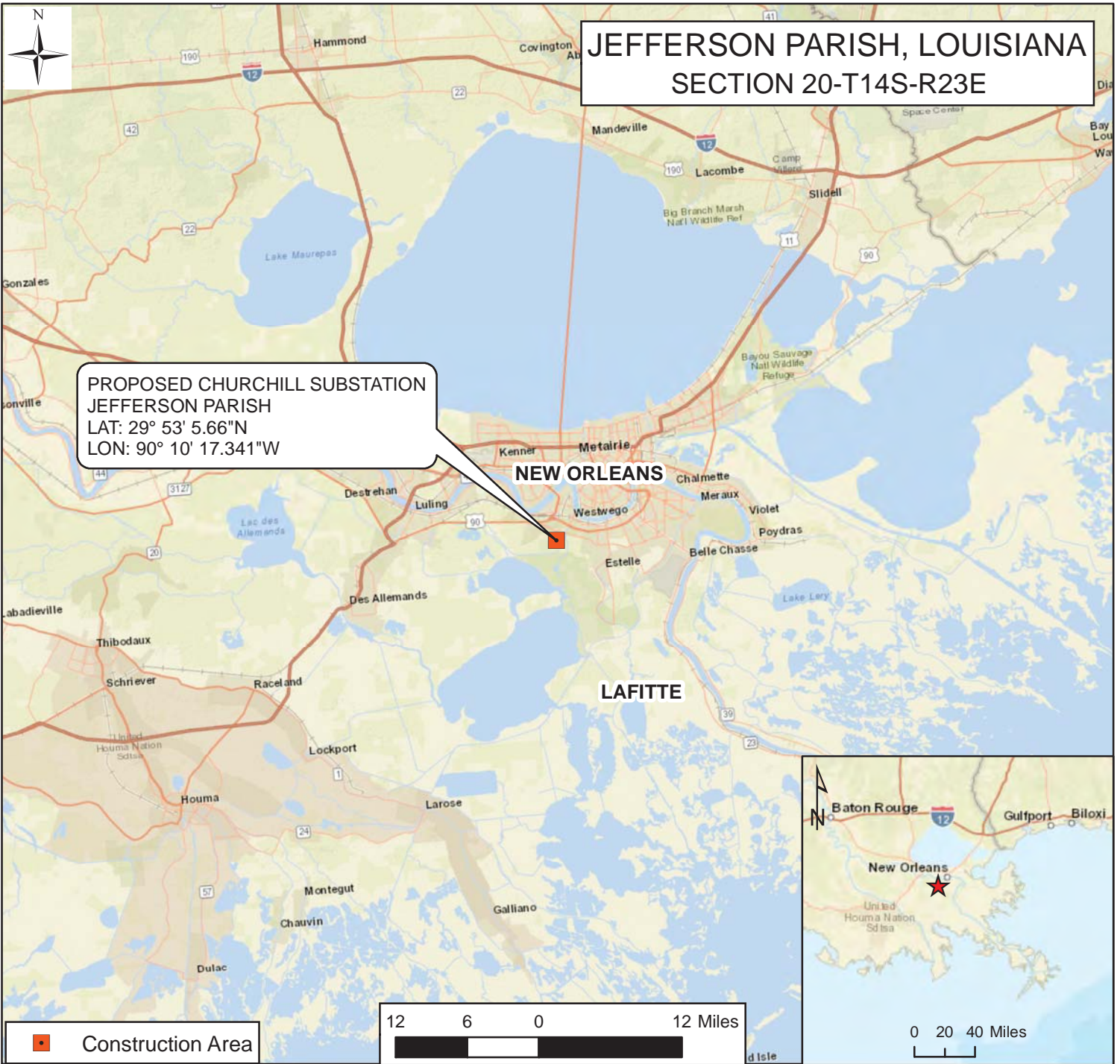
The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver 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 Section

Enclosure

FILE LOCATION: G:\ENERGY\12900\MAPS\CHURCHILL\12900\_CHURCHILL\_OVERVIEW.MXD



**JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E**

**PROPOSED CHURCHILL SUBSTATION  
JEFFERSON PARISH  
LAT: 29° 53' 5.66"N  
LON: 90° 10' 17.341"W**

**NEW ORLEANS**

**LAFITTE**



Construction Area



NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

NOTE: THIS DRAWING WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE STANDARDS SET FORTH FOR PROPERTY BOUNDARY SURVEYS BY THE PROFESSIONAL LAND SURVEY LICENSING INSTITUTE FOR THE STATE(S) ILLUSTRATED.

**ENTERGY LOUISIANA, LLC**

**PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
OVERVIEW MAP**

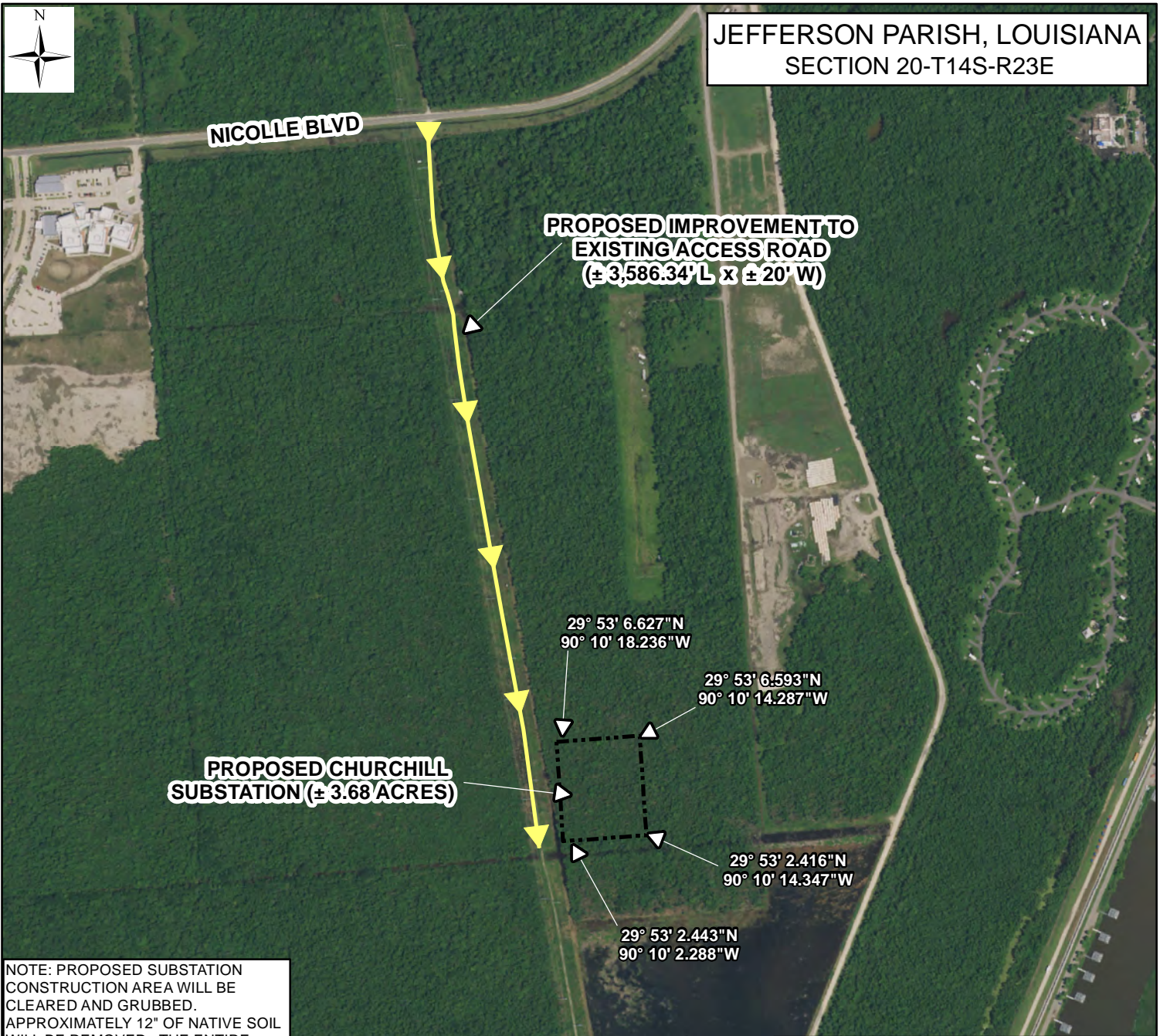


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10101 SOUTHWEST FREEWAY • SUITE 620 • HOUSTON, TEXAS 77071 • (713) 219-1470

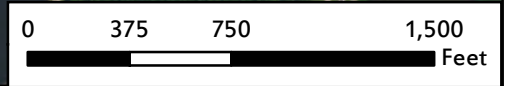
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REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_OVERVIEW.MXD	



JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



NOTE: PROPOSED SUBSTATION CONSTRUCTION AREA WILL BE CLEARED AND GRUBBED. APPROXIMATELY 12" OF NATIVE SOIL WILL BE REMOVED. THE ENTIRE CONSTRUCTION AREA WILL BE BACK-FILLED WITH SAND AND LIMESTONE OVER A GEOTEXTILE FABRIC.



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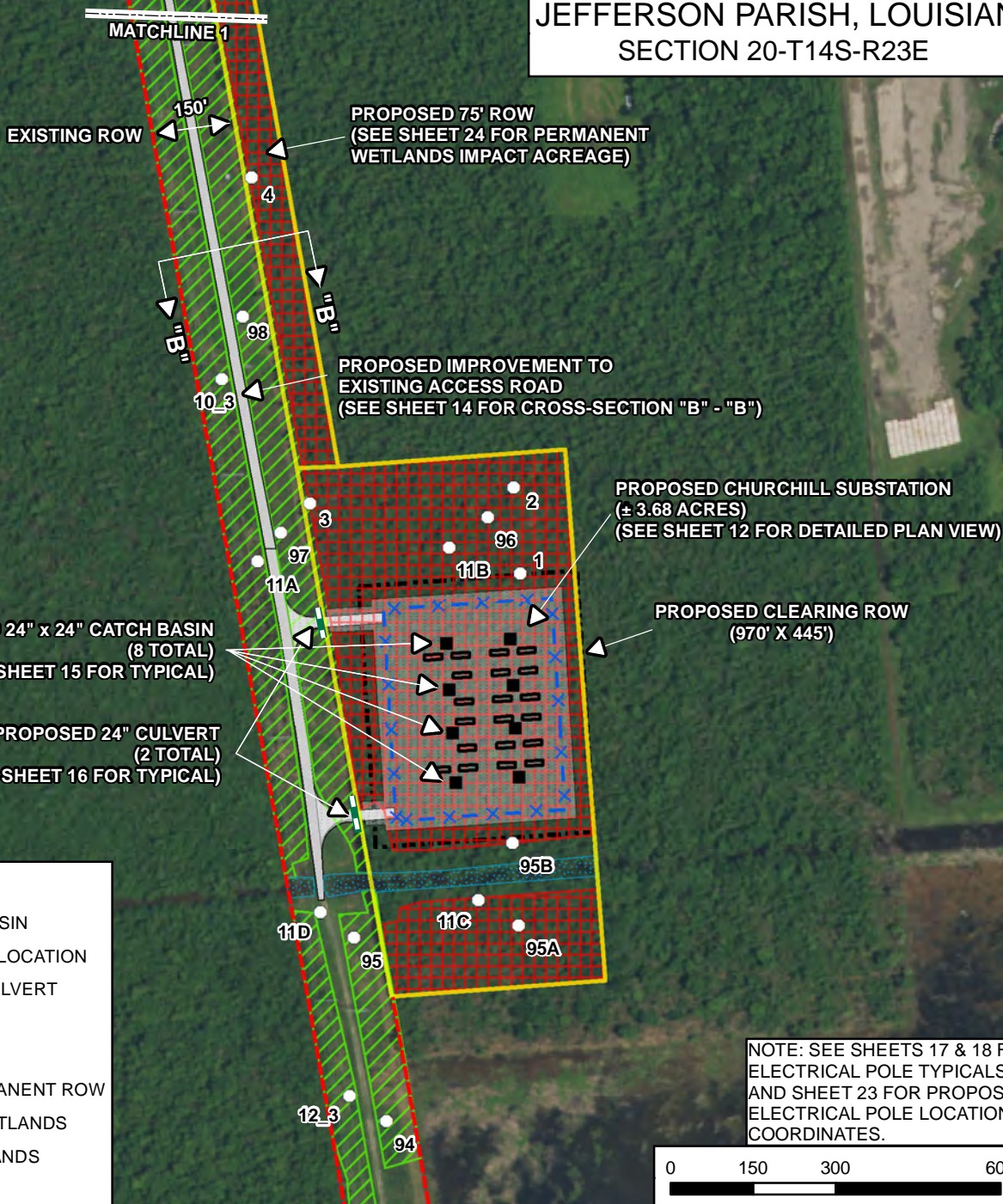
**PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
CONSTRUCTION AREA MAP**



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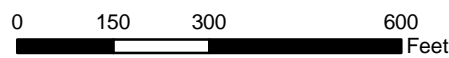
JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



**Legend**

- 24"x 24" CATCH BASIN
- PROPOSED POLE LOCATION
- ▬ PROPOSED 24" CULVERT
- EXISTING ROW
- MATCHLINE
- ▭ PROPOSED PERMANENT ROW
- ▨ HERBACEOUS WETLANDS
- ▩ FORESTED WETLANDS
- ▧ OTHER WATERS

NOTE: SEE SHEETS 17 & 18 FOR ELECTRICAL POLE TYPICALS AND SHEET 23 FOR PROPOSED ELECTRICAL POLE LOCATION COORDINATES.



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**PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
PLAN VIEW MAP**



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APROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_PLAN_1.MXD	

JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



NICOLLE BLVD

MATCHLINE 2

EXISTING ROW

150'

PROPOSED 75' ROW  
(SEE SHEET 24 FOR PERMANENT WETLANDS IMPACT ACREAGE)

PROPOSED IMPROVEMENT TO EXISTING ACCESS ROAD  
(SEE SHEET 14 FOR CROSS-SECTION "B" - "B")

6

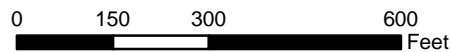
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MATCHLINE 1

**Legend**

- PROPOSED POLE LOCATION
- EXISTING ROW
- MATCHLINE
- PROPOSED PERMANENT ROW
- ▨ HERBACEOUS WETLANDS
- ▩ FORESTED WETLANDS
- ▤ OTHER WATERS

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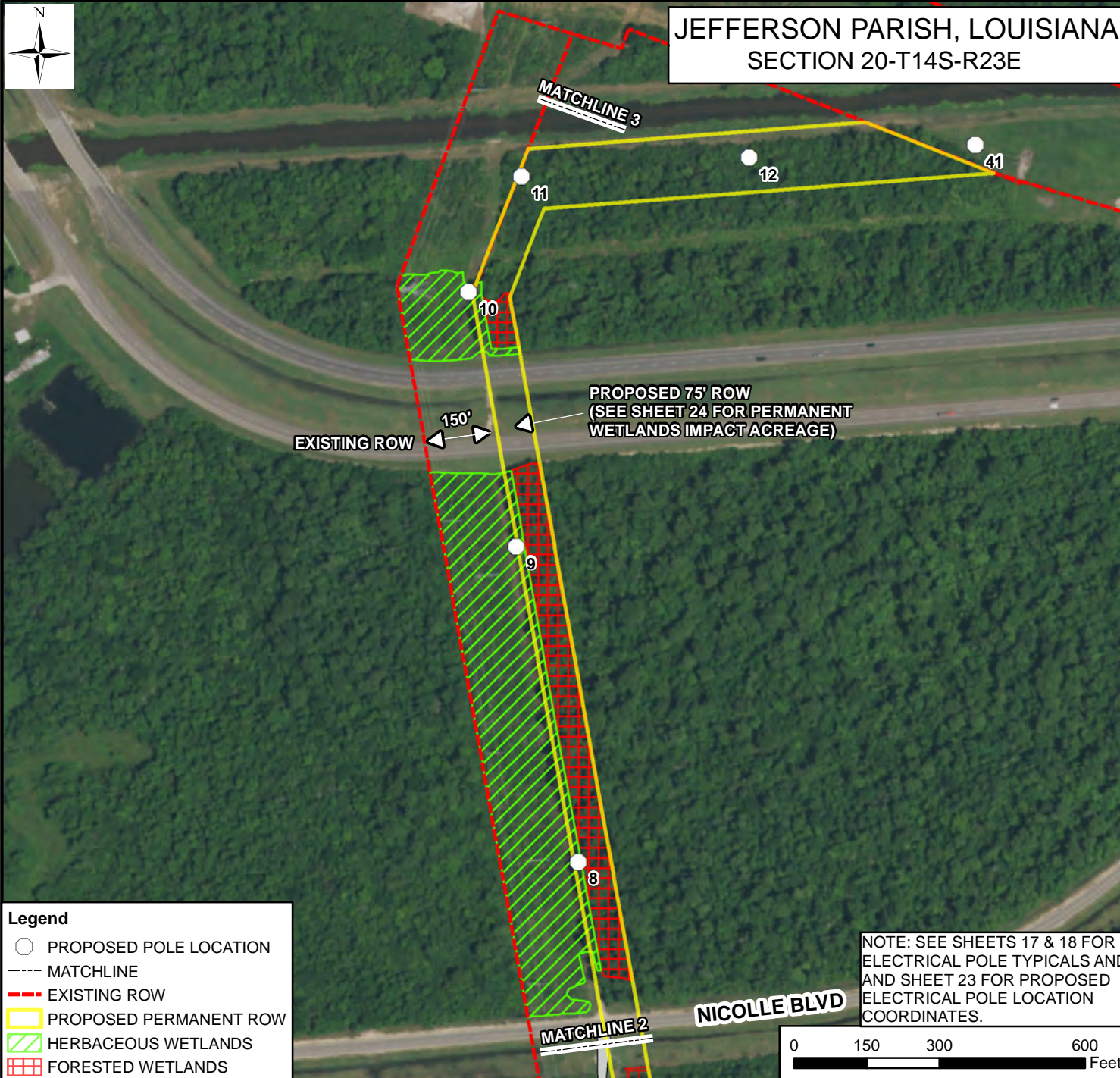
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JEFFERSON PARISH, LOUISIANA  
PLAN VIEW MAP



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REVISION BY:	JOB NO.: 12900-00
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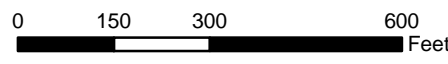
JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



EXISTING ROW      150'      PROPOSED 75' ROW  
(SEE SHEET 24 FOR PERMANENT WETLANDS IMPACT ACREAGE)

- Legend**
- PROPOSED POLE LOCATION
  - MATCHLINE
  - - - EXISTING ROW
  - ▭ PROPOSED PERMANENT ROW
  - ▨ HERBACEOUS WETLANDS
  - ▩ FORESTED WETLANDS

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PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
PLAN VIEW MAP



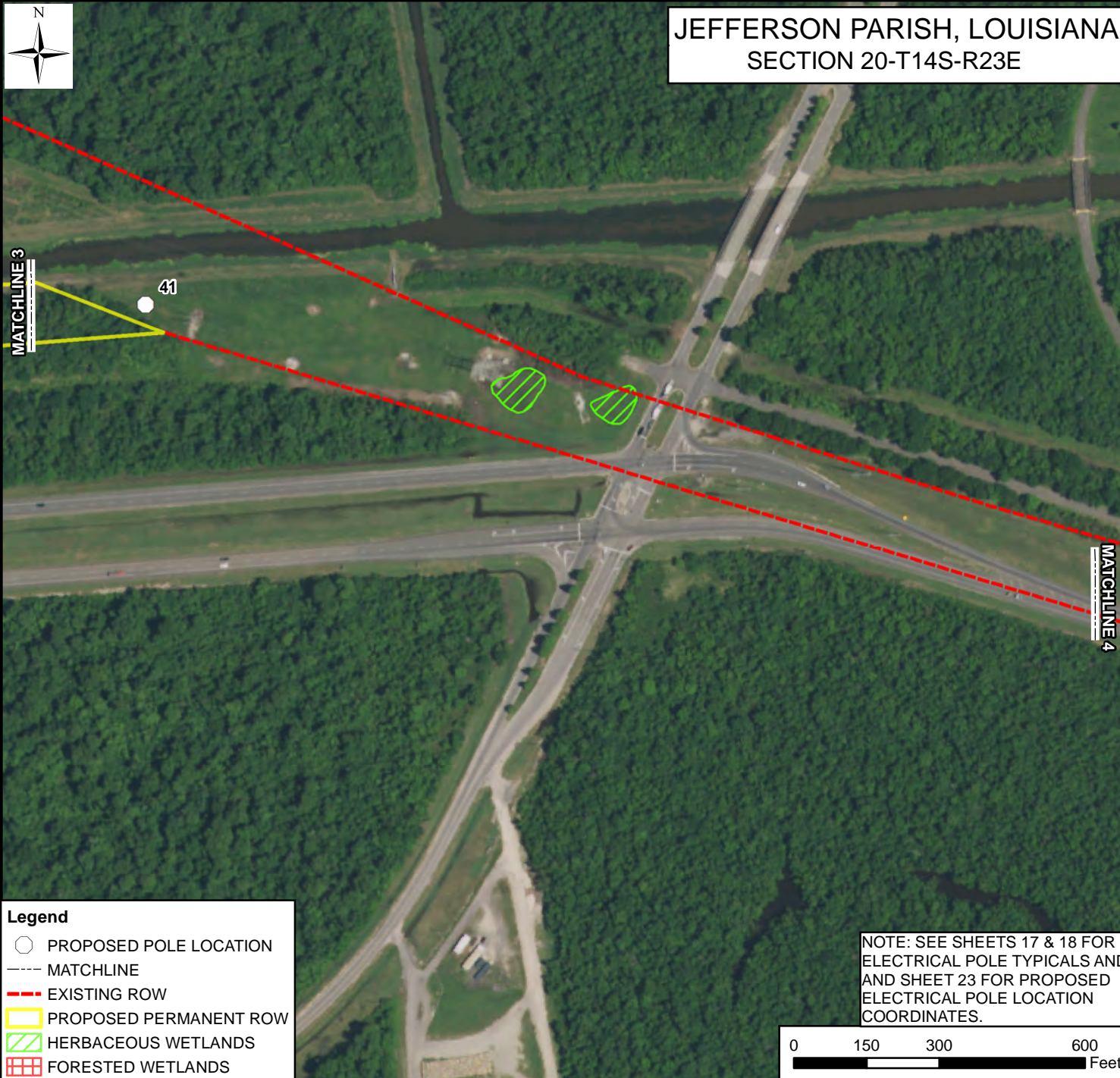
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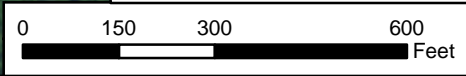
JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



**Legend**

- PROPOSED POLE LOCATION
- MATCHLINE
- - - EXISTING ROW
- ▭ PROPOSED PERMANENT ROW
- ▨ HERBACEOUS WETLANDS
- ▩ FORESTED WETLANDS

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JEFFERSON PARISH, LOUISIANA  
PLAN VIEW MAP**

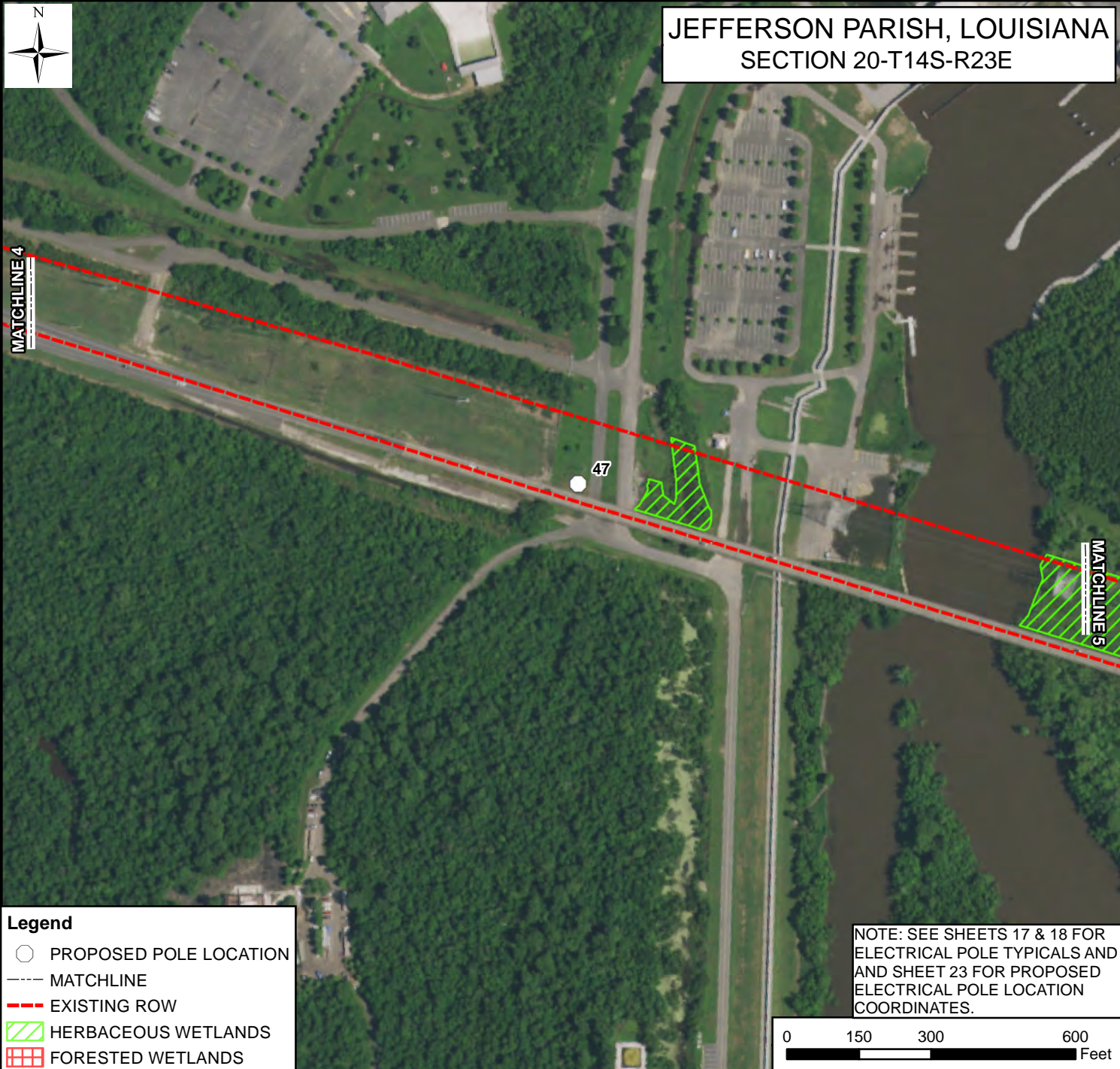


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DRAWN BY: JBS	SHEET: 6
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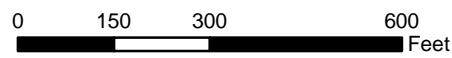
JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



**Legend**

- PROPOSED POLE LOCATION
- MATCHLINE
- - - EXISTING ROW
- ▨ HERBACEOUS WETLANDS
- ▩ FORESTED WETLANDS

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JEFFERSON PARISH, LOUISIANA  
PLAN VIEW MAP**



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DRAWN BY: JBS	SHEET: 7
CHECKED BY:	SCALE: 1 IN = 300 FT
APROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
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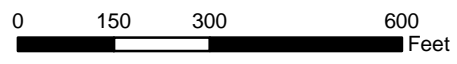
JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



**Legend**

- PROPOSED POLE LOCATION
- MATCHLINE
- - - EXISTING ROW
- ▨ HERBACEOUS WETLANDS
- ▨ FORESTED WETLANDS
- ▨ OTHER WATERS

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DRAWN BY: JBS	SHEET: 8
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REVISION BY:	JOB NO.: 12900-00
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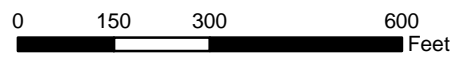
JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



**Legend**

- PROPOSED POLE LOCATION
- - - MATCHLINE
- - - EXISTING ROW
- PROPOSED PERMANENT ROW
- HERBACEOUS WETLANDS
- FORESTED WETLANDS

NOTE: SEE SHEETS 17 & 18 FOR ELECTRICAL POLE TYPICALS AND SHEET 23 FOR PROPOSED ELECTRICAL POLE LOCATION COORDINATES.



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NOTE: THIS DRAWING WAS PREPARED FOR PERMITTING PURPOSES ONLY, AND IS NOT A PROPERTY BOUNDARY SURVEY AND AS SUCH DOES NOT COMPLY WITH THE STANDARDS SET FORTH FOR PROPERTY BOUNDARY SURVEYS BY THE PROFESSIONAL LAND SURVEY LICENSING INSTITUTE FOR THE STATE(S) ILLUSTRATED.

**ENTERGY LOUISIANA, LLC**

**PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
PLAN VIEW MAP**



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DRAWN BY: JBS	SHEET: 9
CHECKED BY:	SCALE: 1 IN = 300 FT
APROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_PLAN_7.MXD	

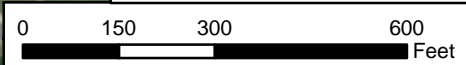
JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



**Legend**

- PROPOSED POLE LOCATION
- EXISTING ROW
- MATCHLINE
- ▭ PROPOSED PERMANENT ROW
- ▨ HERBACEOUS WETLANDS
- ▨ FORESTED WETLANDS

NOTE: SEE SHEETS 17 & 18 FOR ELECTRICAL POLE TYPICALS AND SHEET 23 FOR PROPOSED ELECTRICAL POLE LOCATION COORDINATES.



NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

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**ENTERGY LOUISIANA, LLC**

**PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
PLAN VIEW MAP**

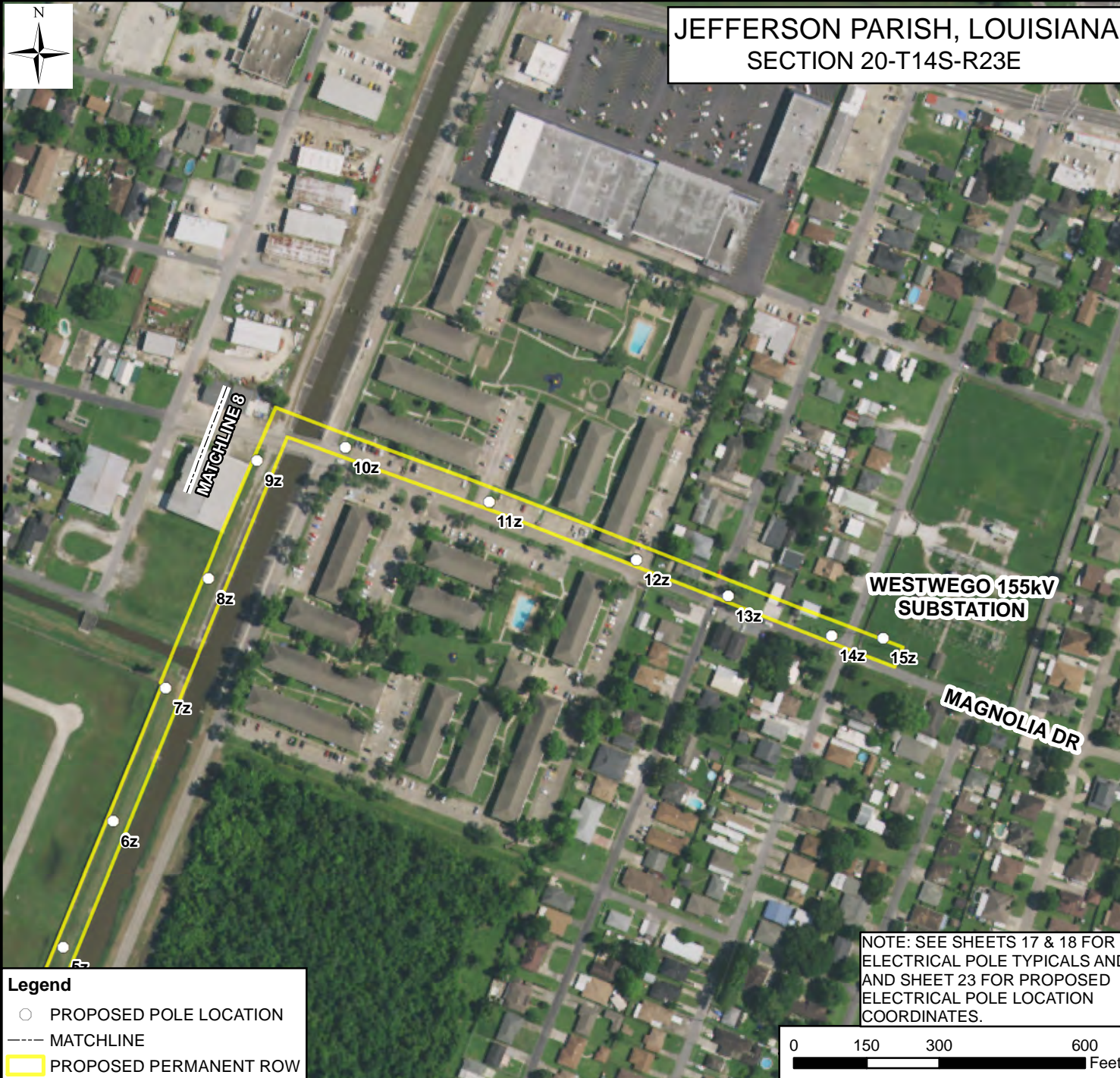


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DRAWN BY: JBS	SHEET: 10
CHECKED BY:	SCALE: 1 IN = 300 FT
APROVED BY:	DATE: 2/6/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_PLAN_8.MXD	

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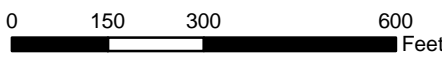
JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



WESTWEGO 155kV  
SUBSTATION

MAGNOLIA DR

NOTE: SEE SHEETS 17 & 18 FOR ELECTRICAL POLE TYPICALS AND SHEET 23 FOR PROPOSED ELECTRICAL POLE LOCATION COORDINATES.



**Legend**

- PROPOSED POLE LOCATION
- MATCHLINE
- ▭ PROPOSED PERMANENT ROW

NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

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ENTERGY LOUISIANA, LLC

PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
PLAN VIEW MAP

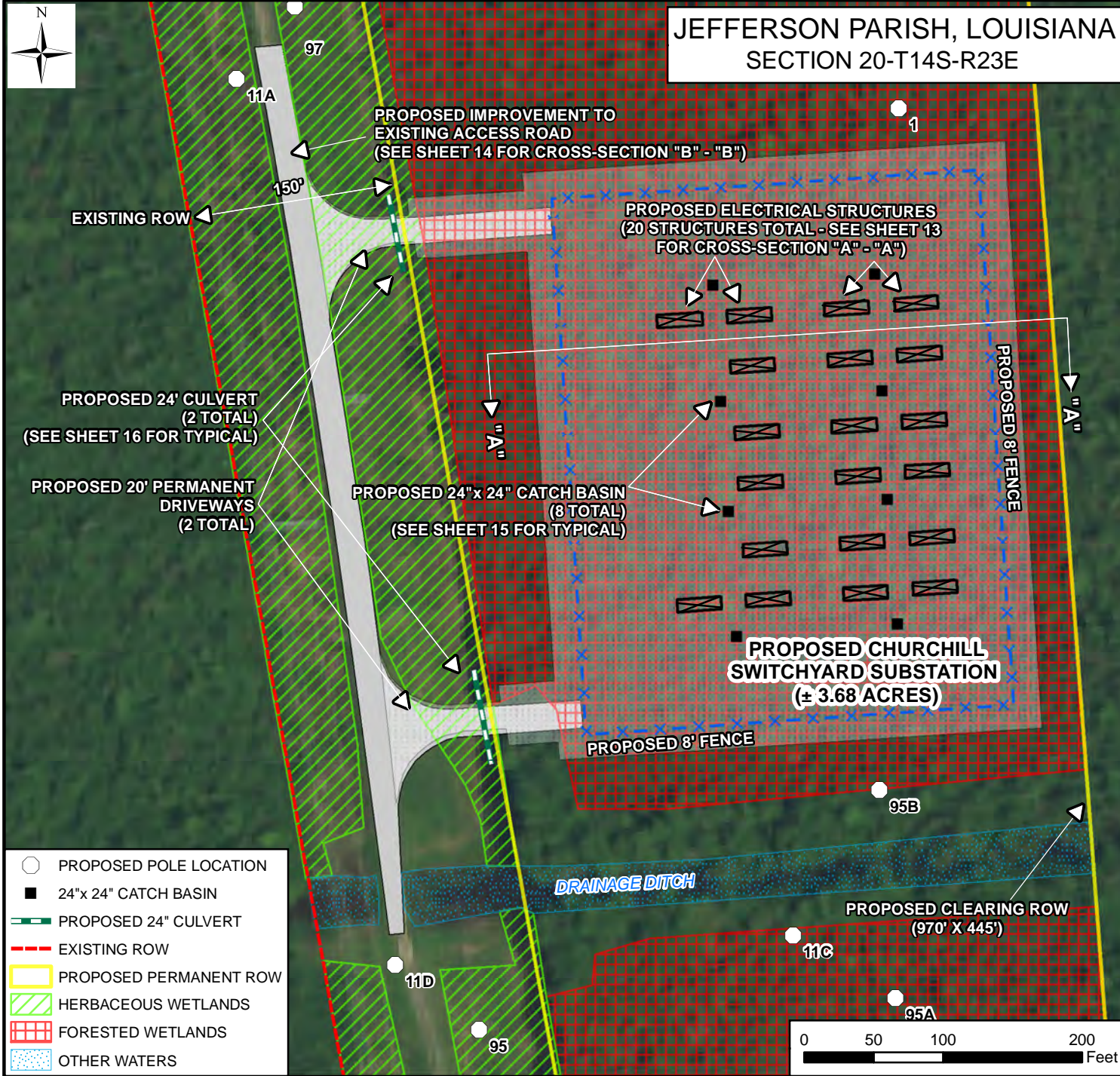


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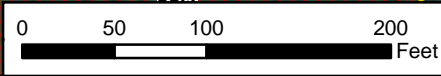
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APROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
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FILE LOCATION: G:\ENTERGY\12900\MAPS\CHURCHILL\12900\_CHURCHILL\_PLAN\_9.MXD

JEFFERSON PARISH, LOUISIANA  
SECTION 20-T14S-R23E



- PROPOSED POLE LOCATION
- 24"x 24" CATCH BASIN
- ▬ PROPOSED 24" CULVERT
- - - EXISTING ROW
- ▭ PROPOSED PERMANENT ROW
- ▨ HERBACEOUS WETLANDS
- ▩ FORESTED WETLANDS
- ▧ OTHER WATERS



NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

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PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
DETAILED SITE PLAN MAP



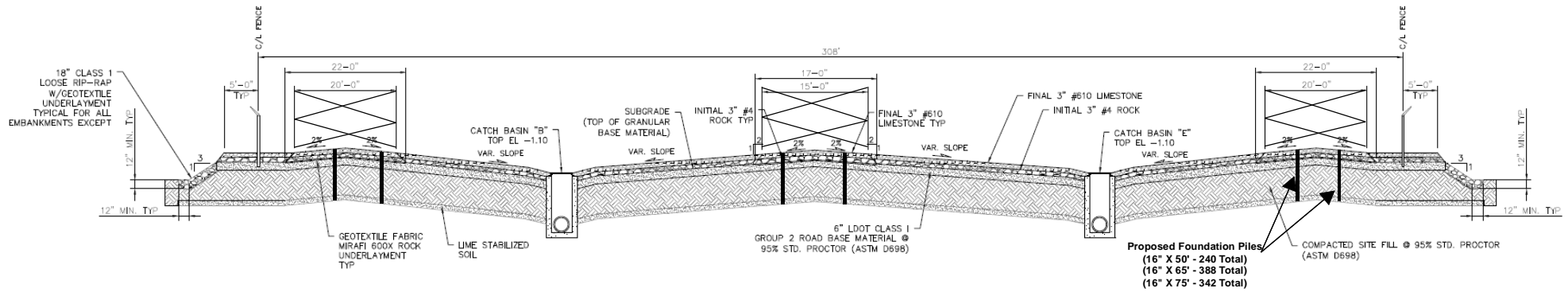
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DRAWN BY: JBS	SHEET: 12
CHECKED BY:	SCALE: 1 IN = 100 FT
APPROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_PLAN_SITE.MXD	

FILE LOCATION: G:\ENTERGY\12900\MAPS\CHURCHILL\12900\_CHURCHILL\_PLAN\_SITE.MXD

# CROSS-SECTION "A" - "A" (CHURCHILL SUBSTATION)

NOT TO SCALE



A YARD SECTION  
L0077601 N.T.S.



ENERGY LOUISIANA, LLC

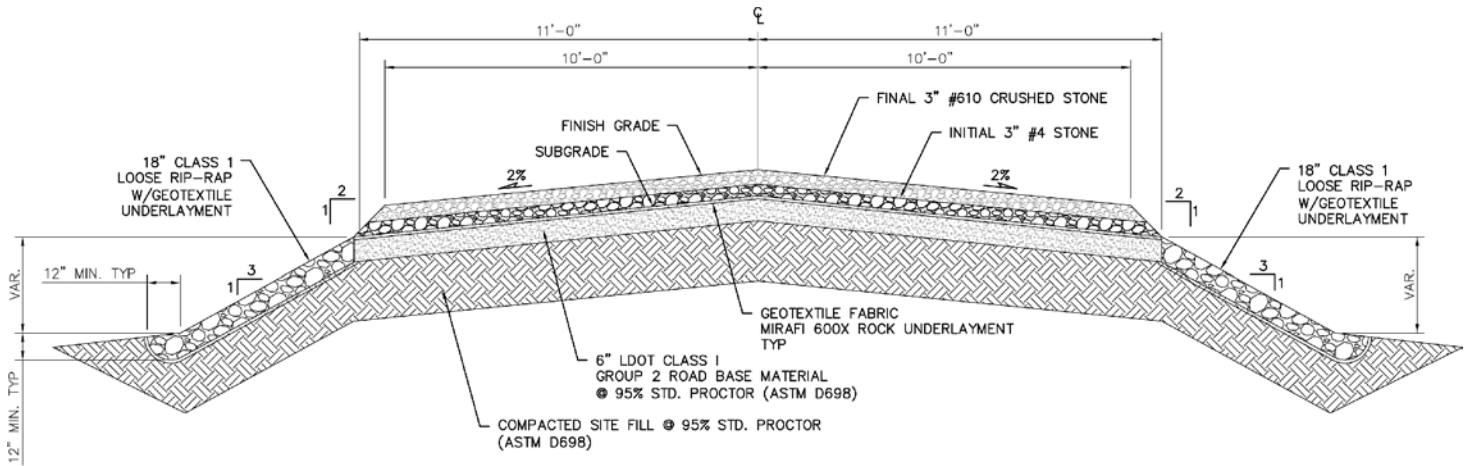
PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
CROSS-SECTION

DRAWN BY: JBS	SHEET: 13
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APPROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_CROSS_LANDSCAPE.MXD	



# CROSS-SECTION "B" - "B" (CHURCHILL SUBSTATION)

NOT TO SCALE



B ACCESS ROAD SECTION  
(L00776D1) N.T.S.

NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

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## ENTERGY LOUISIANA, LLC

### PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT JEFFERSON PARISH, LOUISIANA ACCESS ROAD CROSS-SECTION

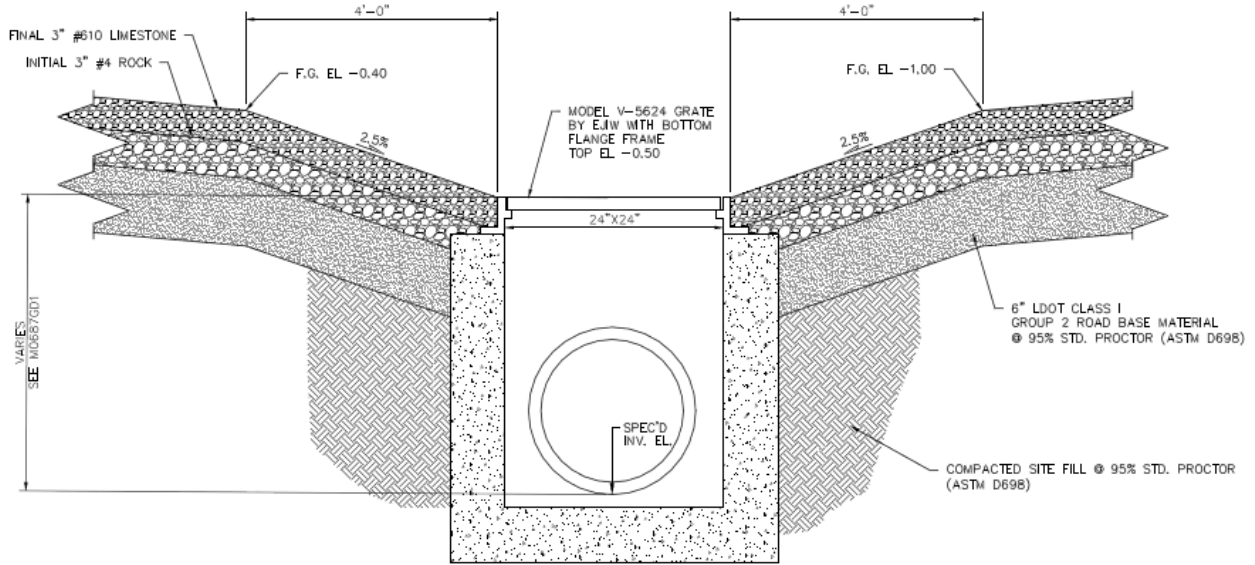


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DRAWN BY: JBS	SHEET: 14
CHECKED BY:	SCALE: NOT TO SCALE
APROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_CROSS_ROAD.MXD	

# TYPICAL CATCH BASIN

## NOT TO SCALE



DETAIL C - GRADING AT 24"x24" CATCH BASINS  
SEE DRAWING L0077G01, N.T.S.

NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

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**ENTERGY LOUISIANA, LLC**

PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
TYPICAL - CATCH BASIN



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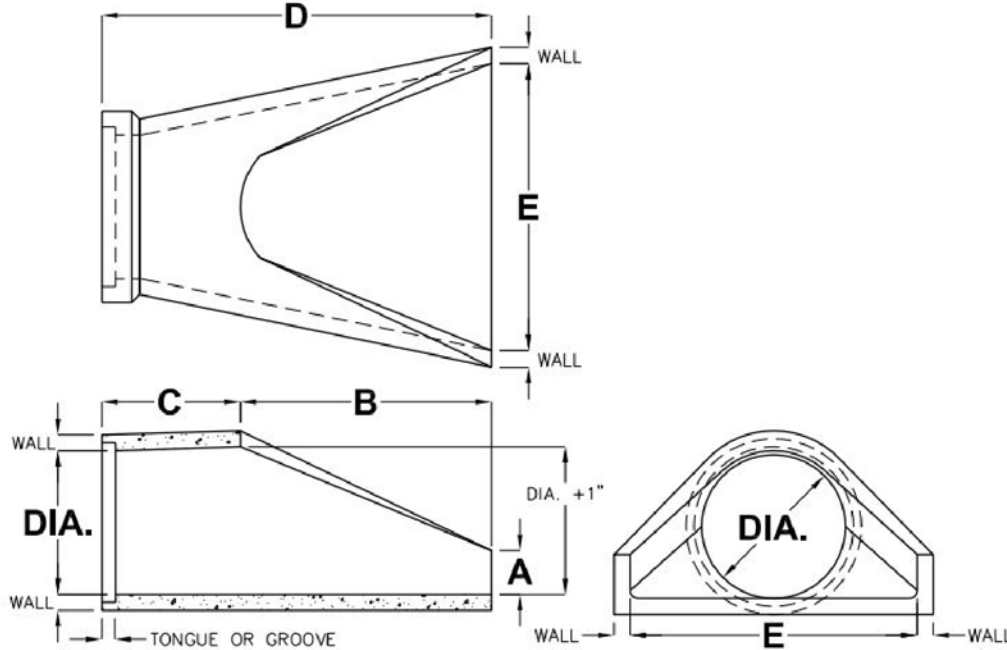
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DRAWN BY: JBS	SHEET: 15
CHECKED BY:	SCALE: NOT TO SCALE
APPROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_TYPICAL.MXD	

# TYPICAL CULVERT

NOT TO SCALE

## REINFORCED CONCRETE PIPE FLARED END SECTIONS



DIA.	WALL	TONGUE OR GROOVE	WEIGHT	A	B	C	D	E
15"	2-1/4"	1-3/4"	970	6"	27"	46"	73"	30"
18"	2-1/2"	1-3/4"	1340	9"	27"	46"	73"	36"
24"	3"	1-3/4"	1820	9-1/2"	43-1/2"	30"	73-1/2"	48"
30"	4-1/4"	3-7/8"	2400	12"	54"	19-3/4"	73-3/4"	60"
36"	4-3/4"	3-7/8"	5500	15"	63"	34-3/4"	97-3/4"	72"

## CHURCHILL SUBSTATION PROPOSED 24" CULVERT

N.T.S.

NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

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## ENTERGY LOUISIANA, LLC

### PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT JEFFERSON PARISH, LOUISIANA TYPICAL - CULVERT



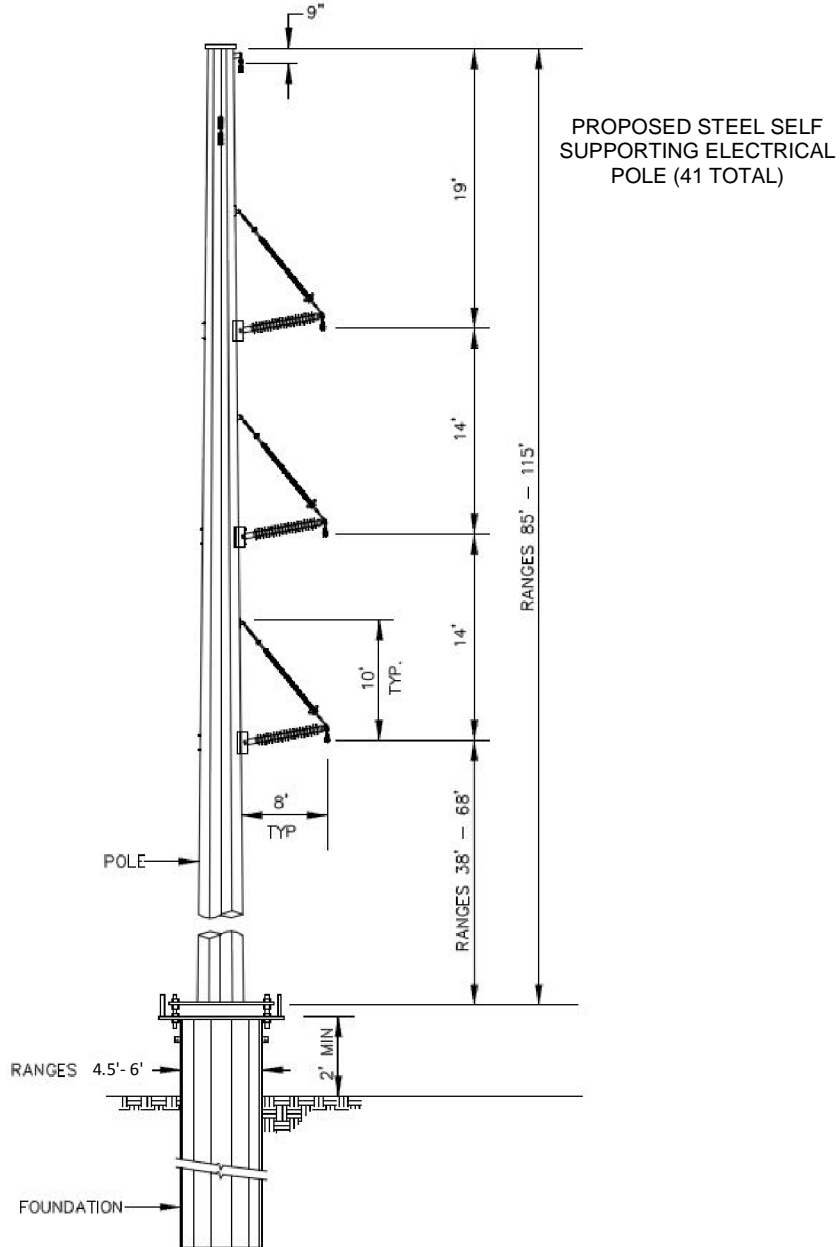
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DRAWN BY: JBS	SHEET: 16
CHECKED BY:	SCALE: NOT TO SCALE
APROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_TYPICAL_CULVERT.MXD	

# TYPICAL ELECTRICAL POLE

NOT TO SCALE



NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

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ENTERGY LOUISIANA, LLC

PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
TYPICAL - ELECTRICAL POLE



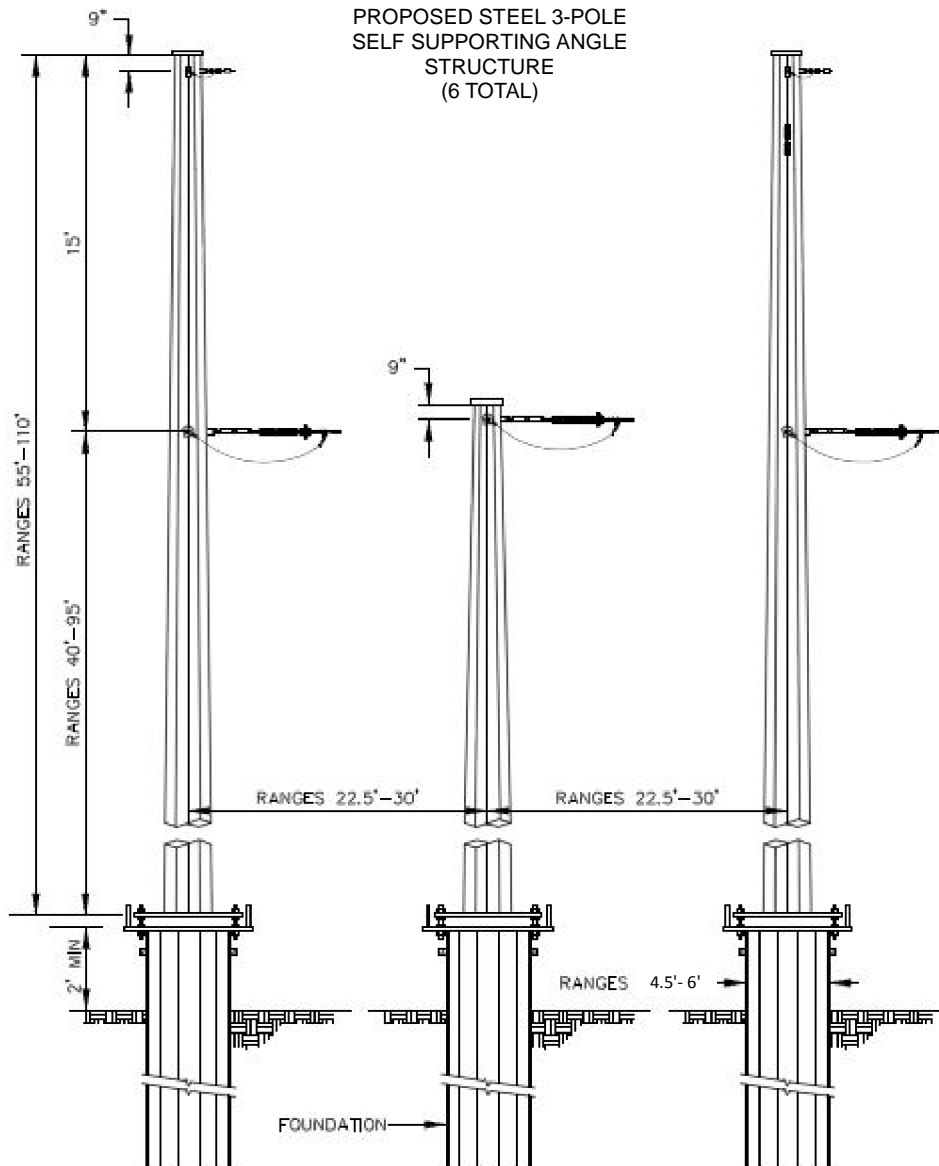
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DRAWN BY: JBS	SHEET: 17
CHECKED BY:	SCALE: NOT TO SCALE
APROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_TYPICAL_POLE.MXD	

# TYPICAL 3-POLE ELECTRICAL STRUCTURE

NOT TO SCALE



PROPOSED STEEL 3-POLE  
SELF SUPPORTING ANGLE  
STRUCTURE  
(6 TOTAL)

NOTE: NO FIELD SURVEY WAS MADE FOR THIS PROJECT AND NO ON-THE-GROUND EFFORT HAS BEEN MADE TO LOCATE AND INDICATE ALL CABLES, PIPELINES, ETC. CROSSED BY THE PROPOSED PROJECT. THEREFORE, MORRIS P. HEBERT, INC. IS NOT RESPONSIBLE FOR ANY LOCATED DURING THE COURSE OF THE PROJECT.

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ENTERGY LOUISIANA, LLC

PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
TYPICAL - 3-POLE ELECTRICAL STRUCTURE



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DRAWN BY: JBS	SHEET: 18
CHECKED BY:	SCALE: NOT TO SCALE
APROVED BY:	DATE: 1/30/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_TYPICAL_3_POLE.MXD	

# CHURCHILL SUBSTATION - CALCULATION SHEET

EXCAVATION/FILL CHART & EQUIPMENT LIST FOR PROPOSED ELECTRICAL SUBSTATION CONSTRUCTION		
EXCAVATIONS:		
CLASSIFICATION	CUBIC YARDS	ACREAGE
WATERBOTTOMS:	0	0
HERBACEOUS WETLANDS:	129.07	0.08
FORESTED WETLANDS:	5,808.00	3.6
NON-WET AREAS	0	0
FILL AREAS:		
CLASSIFICATION	CUBIC YARDS	ACREAGE
WATERBOTTOMS:	0	0
HERBACEOUS WETLANDS:	838.94	0.08
FORESTED WETLANDS:	37,752	3.6
NON-WET AREAS	0	0
FILL MATERIALS:		
CLASSIFICATION	CUBIC YARDS	
CONCRETE:	0	
CRUSHED STONE OR GRAVEL:	6,647	
NATIVE MATERIAL (CLAY, MUD, SOIL):	0	
CONCRETE MATTING:	0	
SAND:	31,944	
ADDITIONAL IMPACTS (ROW CONVERSION):		
CLASSIFICATION	ACREAGE	
HERBACEOUS WETLANDS:	0	
FORESTED WETLANDS:	10.21	
ROCKS:	0	

**EQUIPMENT LIST:**

CRANES	TRACTORS
BUCKET AND AERIAL PLATFORMS TRUCKS	TANKER TRUCKS
WIRE PULLING EQUIPMENT	SKIDDERS
VIBRATORY HAMMER AND HYDRAULIC POWER UNIT	TRAILERS
BULLDOZERS	SLEDS
EXCAVATORS, TRACKHOES, AND BACKHOES	VEGETATION CLEARING EQUIPMENT
DIGGER DERRICKS AND DRILL RIGS	VEGETATION INCINERATOR
GRADERS	HELICOPTERS
FORKLIFTS	MARSH BUGGIES
LOADERS	

NOTE: THESE DRAWINGS  
ARE TO BE USED EXCLUSIVELY  
FOR THE ACQUISITION OF  
REGULATORY PERMITS

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## ENTERGY LOUISIANA, LLC

### PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT JEFFERSON PARISH, LOUISIANA CALCULATION SHEET - SUBSTATION



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DRAWN BY: JBS	SHEET: 19
CHECKED BY:	SCALE: NOT TO SCALE
APROVED BY:	DATE: 3/15/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_CALC_SUB_.MXD	

# CHURCHILL SUBSTATION - CALCULATION SHEET

EXCAVATION/FILL CHART & EQUIPMENT LIST FOR PROPOSED ACCESS ROAD CONSTRUCTION		
EXCAVATIONS:		
CLASSIFICATION	CUBIC YARDS	ACREAGE
WATERBOTTOMS:	0	0
HERBACEOUS WETLANDS:	0	0
FORESTED WETLANDS:	0	0
NON-WET AREAS	1,328.27	1.76
FILL AREAS:		
CLASSIFICATION	CUBIC YARDS	ACREAGE
WATERBOTTOMS:	0	0
HERBACEOUS WETLANDS:	0	0
FORESTED WETLANDS:	0	0
NON-WET AREAS	9,298	1.76
FILL MATERIALS:		
CLASSIFICATION	CUBIC YARDS	
CONCRETE:	0	
CRUSHED STONE OR GRAVEL:	2,657	
NATIVE MATERIAL (CLAY, MUD, SOIL):	0	
CONCRETE MATTING:	0	
SAND:	6,641	
ADDITIONAL IMPACTS		
CLASSIFICATION	ACREAGE	
HERBACEOUS WETLANDS:	0	
FORESTED WETLANDS:	0	
ROCKS:	0	

**EQUIPMENT LIST:**

CRANES	TRACTORS
BUCKET AND AERIAL PLATFORMS TRUCKS	TANKER TRUCKS
WIRE PULLING EQUIPMENT	SKIDDERS
VIBRATORY HAMMER AND HYDRAULIC POWER UNIT	TRAILERS
BULLDOZERS	SLEDS
EXCAVATORS, TRACKHOES, AND BACKHOES	VEGETATION CLEARING EQUIPMENT
DIGGER DERRICKS AND DRILL RIGS	VEGETATION INCINERATOR
GRADERS	HELICOPTERS
FORKLIFTS	MARSH BUGGIES
LOADERS	

NOTE: THESE DRAWINGS  
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FOR THE ACQUISITION OF  
REGULATORY PERMITS

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## ENTERGY LOUISIANA, LLC

### PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT JEFFERSON PARISH, LOUISIANA CALCULATION SHEET - ACCESS ROAD



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DRAWN BY: JBS	SHEET: 20
CHECKED BY:	SCALE: NOT TO SCALE
APROVED BY:	DATE: 1/29/2018
REVISION BY:	JOB NO.: 12900-00
GIS FILE: 12900_CHURCHILL_CALC_ROAD_.MXD	

# T-LINE STRUCTURES - CALCULATION SHEET

EXCAVATION/FILL CHART & EQUIPMENT LIST FOR PROPOSED ELECTRIC POLE INSTALLATION (VIBRATORY CAISON)		
<b>EXCAVATIONS:</b>		
CLASSIFICATION	CUBIC YARDS	ACREAGE
WATERBOTTOMS:	0	0
HERBACEOUS WETLANDS:	22	0.0286
FORESTED WETLANDS:	26	0.0338
NON-WET AREAS	34	0.0442
<b>FILL AREAS:</b>		
CLASSIFICATION	CUBIC YARDS	ACREAGE
WATERBOTTOMS:	0	0
HERBACEOUS WETLANDS:	22	0.0286
FORESTED WETLANDS:	26	0.0338
NON-WET AREAS	34	0.0442
<b>FILL MATERIALS:</b>		
CLASSIFICATION	CUBIC YARDS	
CONCRETE:	82	
CRUSHED STONE OR GRAVEL:	0	
NATIVE MATERIAL (CLAY, MUD, SOIL):	0	
CONCRETE MATTING:	0	
SAND:	0	
<b>ADDITIONAL IMPACTS (VIBRATORY CAISON INSTALLATION):</b>		
CLASSIFICATION	ACREAGE	
HERBACEOUS WETLANDS:	0	
FORESTED WETLANDS:	0	
ROCKS:	0	

**EQUIPMENT LIST:**

CRANES	TRACTORS
BUCKET AND AERIAL PLATFORMS TRUCKS	TANKER TRUCKS
WIRE PULLING EQUIPMENT	SKIDDERS
VIBRATORY HAMMER AND HYDRAULIC POWER UNIT	TRAILERS
BULLDOZERS	SLEDS
EXCAVATORS, TRACKHOES, AND BACKHOES	VEGETATION CLEARING EQUIPMENT
DIGGER DERRICKS AND DRILL RIGS	VEGETATION INCINERATOR
GRADERS	HELICOPTERS
FORKLIFTS	MARSH BUGGIES
LOADERS	

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ARE TO BE USED EXCLUSIVELY  
FOR THE ACQUISITION OF  
REGULATORY PERMITS

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## ENTERGY LOUISIANA, LLC

PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
CALCULATION SHEET - PROPOSED ELECTRICAL POLE



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DRAWN BY: JBS	SHEET: 21
CHECKED BY:	SCALE: NOT TO SCALE
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# T-LINE STRUCTURES - CALCULATION SHEET

EXCAVATION/FILL CHART & EQUIPMENT LIST FOR PROPOSED ELECTRIC POLE CONSTRUCTION (DRILLED CONCRETE PIER FOUNDATION)		
EXCAVATIONS:		
CLASSIFICATION	CUBIC YARDS	ACREAGE
WATERBOTTOMS:	0	0
HERBACEOUS WETLANDS:	0	0
FORESTED WETLANDS:	0	0
NON-WET AREAS	300	0.0156
FILL AREAS:		
CLASSIFICATION	CUBIC YARDS	ACREAGE
WATERBOTTOMS:	0	0
HERBACEOUS WETLANDS:	0	0
FORESTED WETLANDS:	0	0
NON-WET AREAS	300	0.0156
FILL MATERIALS:		
CLASSIFICATION	CUBIC YARDS	
CONCRETE:	300	
CRUSHED STONE OR GRAVEL:	0	
NATIVE MATERIAL (CLAY, MUD, SOIL):	0	
CONCRETE MATTING:	0	
SAND:	0	
ADDITIONAL IMPACTS (DRILLED PIERS INSTALLATION):		
CLASSIFICATION	ACREAGE	
HERBACEOUS WETLANDS:	0	
FORESTED WETLANDS:	0	
ROCKS:	0	

**EQUIPMENT LIST:**

CRANES	TRACTORS
BUCKET AND AERIAL PLATFORMS TRUCKS	TANKER TRUCKS
WIRE PULLING EQUIPMENT	SKIDDERS
VIBRATORY HAMMER AND HYDRAULIC POWER UNIT	TRAILERS
BULLDOZERS	SLEDS
EXCAVATORS, TRACKHOES, AND BACKHOES	VEGETATION CLEARING EQUIPMENT
DIGGER DERRICKS AND DRILL RIGS	VEGETATION INCINERATOR
GRADERS	HELICOPTERS
FORKLIFTS	MARSH BUGGIES
LOADERS	

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## ENTERGY LOUISIANA, LLC

PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT  
JEFFERSON PARISH, LOUISIANA  
CALCULATION SHEET - PROPOSED ELECTRICAL POLE



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GIS FILE: 12900_CHURCHILL_CALC_DRILL PIERS_POLE_.MXD	

# PROPOSED ELECTRICAL POLE LOCATION COORDINATES

ON VIBRATORY CAISON FOUNDATIONS				
NAME	X	Y	LAT	LON
12	90° 10' 17.87" W	29° 53' 54.23" N	3648917.771	510409.8755
41	90° 10' 12.57" W	29° 53' 54.15" N	3649384.23	510405.8584
47	90° 9' 37.87" W	29° 53' 42.27" N	3652450.009	509237.4089
51	90° 9' 14.92" W	29° 53' 34.60" N	3654478.54	508483.5173
1	90° 10' 15.12" W	29° 53' 6.89" N	3649207.724	505629.6623
2	90° 10' 15.13" W	29° 53' 8.43" N	3649206.032	505785.2926
3	90° 10' 19.34" W	29° 53' 8.42" N	3648835.397	505781.2792
4	90° 10' 20.03" W	29° 53' 14.35" N	3648768.171	506379.5699
5	90° 10' 20.84" W	29° 53' 21.17" N	3648690.272	507067.8237
6	90° 10' 21.67" W	29° 53' 27.88" N	3648610.192	507744.7109
7	90° 10' 22.46" W	29° 53' 34.69" N	3648533.934	508431.5891
8	90° 10' 23.10" W	29° 53' 40.16" N	3648471.768	508983.9339
9	90° 10' 23.99" W	29° 53' 46.68" N	3648386.572	509641.2617
10	90° 10' 24.66" W	29° 53' 51.94" N	3648322.453	510171.6677
11	90° 10' 23.22" W	29° 53' 54.20" N	3648446.993	510401.2466
10_3	90° 10' 20.96" W	29° 53' 10.77" N	3648690.03	506016.5557
98	90° 10' 20.44" W	29° 53' 11.87" N	3648735.163	506128.4006
97	90° 10' 19.98" W	29° 53' 7.93" N	3648778.957	505731.1953
11A	90° 10' 20.50" W	29° 53' 7.45" N	3648733.85	505681.941
96	90° 10' 15.70" W	29° 53' 7.93" N	3649156.4	505734.8246
11B	90° 10' 16.54" W	29° 53' 7.44" N	3649082.26	505684.5333
11D	90° 10' 19.76" W	29° 53' 1.07" N	3648806.051	505038.5243
95	90° 10' 19.11" W	29° 53' 0.57" N	3648863.38	504987.7944
95B	90° 10' 15.70" W	29° 53' 2.06" N	3649161.986	505141.2215
11C	90° 10' 16.49" W	29° 53' 1.07" N	3649093.109	505040.999
95A	90° 10' 15.70" W	29° 53' 0.57" N	3649163.636	504991.0939
12_3	90° 10' 19.45" W	29° 52' 57.73" N	3648836.772	504701.0621
94	90° 10' 18.72" W	29° 52' 57.23" N	3648901.066	504651.0559

ON VIBRATORY CAISON FOUNDATIONS				
NAME	X	Y	LAT	LON
1a	90° 8' 51.56" W	29° 53' 26.85" N	3656542.039	507721.4726
1b	90° 8' 51.31" W	29° 53' 26.69" N	3656564.977	507705.8785
1c	90° 8' 51.06" W	29° 53' 26.52" N	3656587.121	507688.927
2a	90° 8' 50.59" W	29° 53' 28.42" N	3656625.755	507880.8839
2b	90° 8' 50.45" W	29° 53' 28.19" N	3656639.066	507858.1685
2c	90° 8' 50.26" W	29° 53' 27.98" N	3656655.276	507836.6727
3z	90° 8' 49.68" W	29° 53' 28.39" N	3656705.973	507879.1578
4z	90° 8' 48.38" W	29° 53' 30.43" N	3656818.121	508086.2784
5z	90° 8' 46.95" W	29° 53' 32.88" N	3656941.468	508334.6973
6z	90° 8' 45.57" W	29° 53' 35.37" N	3657061.125	508587.324
7z	90° 8' 44.10" W	29° 53' 37.99" N	3657186.995	508854.0873
8z	90° 8' 42.91" W	29° 53' 40.16" N	3657289.662	509074.3388
9z	90° 8' 41.57" W	29° 53' 42.49" N	3657405.383	509310.4125
ON DRILLED PIER FOUNDATIONS				
NAME	X	Y	LAT	LON
10z	90° 8' 39.48" W	29° 53' 42.61" N	3657589.018	509324.8436
11z	90° 8' 36.22" W	29° 53' 41.28" N	3657877.135	509193.6663
12z	90° 8' 32.89" W	29° 53' 39.87" N	3658171.877	509054.2232
13z	90° 8' 30.82" W	29° 53' 39.00" N	3658355.225	508968.2232
14z	90° 8' 28.47" W	29° 53' 38.03" N	3658563.043	508872.0194
15z	90° 8' 27.28" W	29° 53' 37.90" N	3658667.58	508860.1639

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## ENTERGY LOUISIANA, LLC

### PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT JEFFERSON PARISH, LOUISIANA PROPOSED ELECTRICAL POLE LOCATION COORDINATES



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# CZM NOTES

1. THE SITE FILL SHALL BE RIVER SAND (SILT AND GRAVELLY CLAY ARE NOT ACCEPTABLE). THE FINAL SITE FILL MATERIAL TYPE MAY CHANGE WHEN A CURRENT GEOTECH REPORT IS PROVIDED.
2. THE GRUBBING/CUT EFFORT SHOULD REMOVE ALL ORGANIC MATTER, RUBBER DEBRIS, STUMPS AND ROOTS. STUMPS FROM TREES SHALL BE COMPLETELY REMOVED AND DISPOSED OF. GRUBBING CAN BE SPREAD ON-SITE IN THE DESIGNATED SPOILS AREA IF FREE OF WASTE, DEBRIS AND DELETERIOUS MATTER.
3. GRUBBED/CUT SOIL SHALL NOT BE USED FOR FILL.
4. APPROXIMATELY 5,937 CUBIC YARDS (3.68 ACRES) OF MATERIAL WILL BE DISPLACED DURING THE EXCAVATION OF THE PROPOSED CONSTRUCTION SURFACE. THE EXCAVATED AREA WILL BE REPLACED WITH APPROXIMATELY 31,944 CUBIC YARDS (3.68 ACRES) OF SAND. APPROXIMATELY 5,937 CUBIC YARDS (3.68 ACRES) OF CRUSHED STONE WILL BE PLACED ON TOP OF THE SAND. PLEASE SEE SHEET 19.
5. APPROXIMATELY 0.08 ACRES OF HERBACEOUS WETLANDS, AND APPROXIMATELY 3.6 ACRES OF FORESTED WETLANDS WILL BE PERMANENTLY IMPACTED BY THE CONSTRUCTION OF THE SUBSTATION. APPROXIMATELY 10.21 ADDITIONAL ACRES OF FORESTED WETLANDS WILL BE IMPACTED AND CONVERTED TO HERBACEOUS WETLANDS DUE TO THE CONSTRUCTION OF THE NEW ROW. PLEASE SEE SHEET 19.
6. APPROXIMATELY 1,328 CUBIC YARDS (1.76 ACRES) OF MATERIAL WILL BE DISPLACED DURING THE EXCAVATION OF THE PROPOSED ACCESS ROAD. THE EXCAVATED AREA WILL BE REPLACED WITH APPROXIMATELY 6,641 CUBIC YARDS (1.76 ACRES) OF SAND. APPROXIMATELY 1,328 CUBIC YARDS (1.76 ACRES) OF #4 STONE WILL BE PLACED ON TOP OF THE SAND, FOLLOWED BY 1,328 CUBIC YARDS (1.76 ACRES) OF #610 CRUSHED STONE. PLEASE SEE SHEET 20.
7. FORTY ONE (41) ELECTRICAL POLES WILL BE INSTALLED ON A VIBRATORY CAISON FOUNDATION. THE 41 ELECTRICAL POLES WILL REQUIRE A TOTAL OF 82 CUBIC YARDS (0.11 ACRES) OF EXCAVATION AND 82 CUBIC YARDS (0.11 ACRES) OF CONCRETE FILL. SIX (6) ELECTRICAL POLES WILL BE INSTALLED ON A DRILLED CONCRETE PIER FOUNDATION. THE DRILLING WILL RESULT IN A TOTAL OF 300 CUBIC YARDS (0.016 ACRES) OF EXCAVATION WHICH WILL BE REPLACED WITH 300 YARDS (0.016 ACRES) OF CONCRETE FILL. APPROXIMATELY 0.0286 ACRES OF HERBACEOUS WETLANDS AND 0.0338 ACRES OF FORESTED WETLANDS WILL BE PERMANENTLY IMPACTED BY ELECTRICAL POLE INSTALLATION. PLEASE SEE SHEETS 21 AND 22.
8. AS-BUILT DRAWINGS SHALL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, COASTAL MANAGEMENT DIVISION, P.O. BOX 44487, BATON ROUGE, LA, 70804-4487.
9. STRUCTURES WILL BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
10. 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.
11. NO DREDGING OR WHEELWASHING IS REQUIRED WITHIN THE PROJECT AREA.

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## ENTERGY LOUISIANA, LLC

### PROPOSED CHURCHILL SUBSTATION TO WESTWEGO CONSTRUCTION PROJECT JEFFERSON PARISH, LOUISIANA CZM NOTES



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