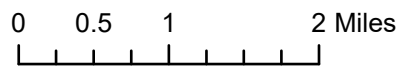
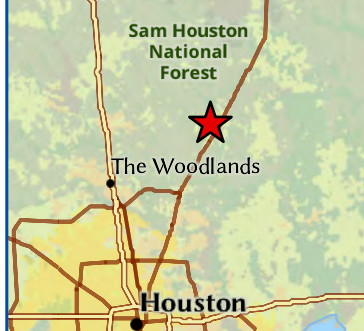



PROJECT AREA LOCATION
LATITUDE 30.3291145°N
LONGITUDE -95.1325297°W

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed August, 2021., Montgomery County, TX GIS Office, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS. Sources: Esri, USGS, Esri, USGS.



LEGEND

 Southline Substation



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PERMIT PLATS: VICINITY

SHEET 1 OF 6

ENERGY TEXAS, INC.

SOUTHLINE SUBSTATION & TRANSMISSION LINE CUT-IN

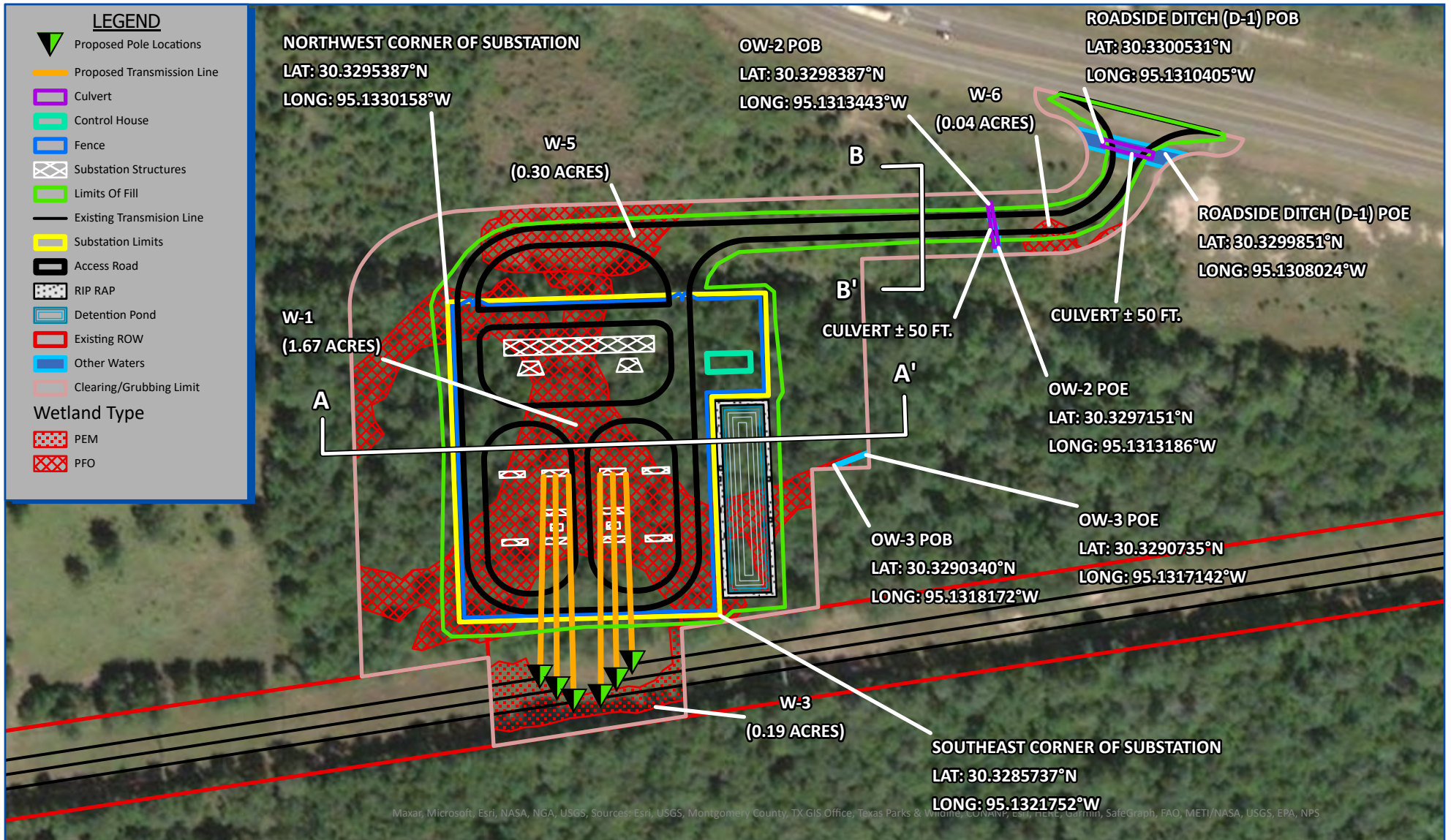
LIBERTY COUNTY, TX

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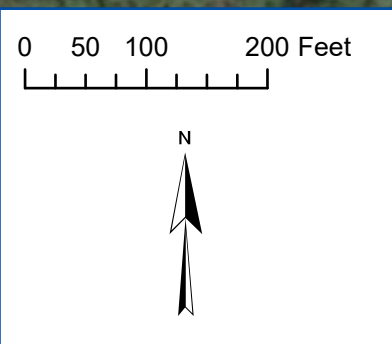
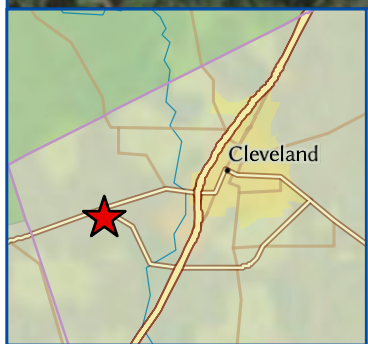
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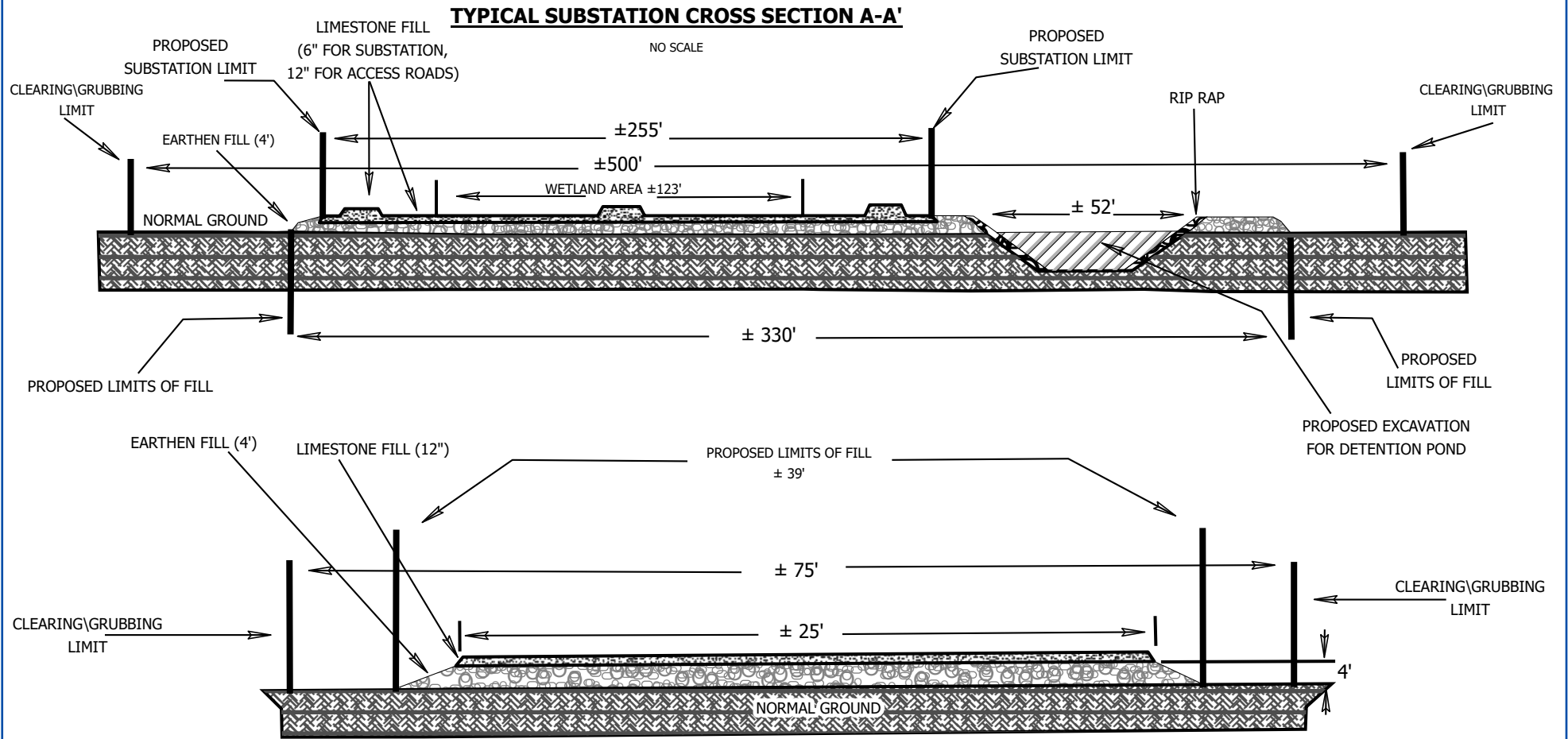
Maxar, Microsoft, Esri, NASA, NGA, USGS, Sources: Esri, USGS, Montgomery County, TX GIS Office, Texas Parks & Wildlife, US Army Corps of Engineers, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS



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PERMIT PLATS: DETAIL		SHEET 2 OF 6
ENTERGY TEXAS, INC.		
SOUTHLINE SUBSTATION & TRANSMISSION LINE CUT-IN		
LIBERTY COUNTY, TX		
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TYPICAL ACCESS ROAD CROSS SECTION B-B'

NO SCALE

NOT TO SCALE

TYPICAL
CROSS-SECTION



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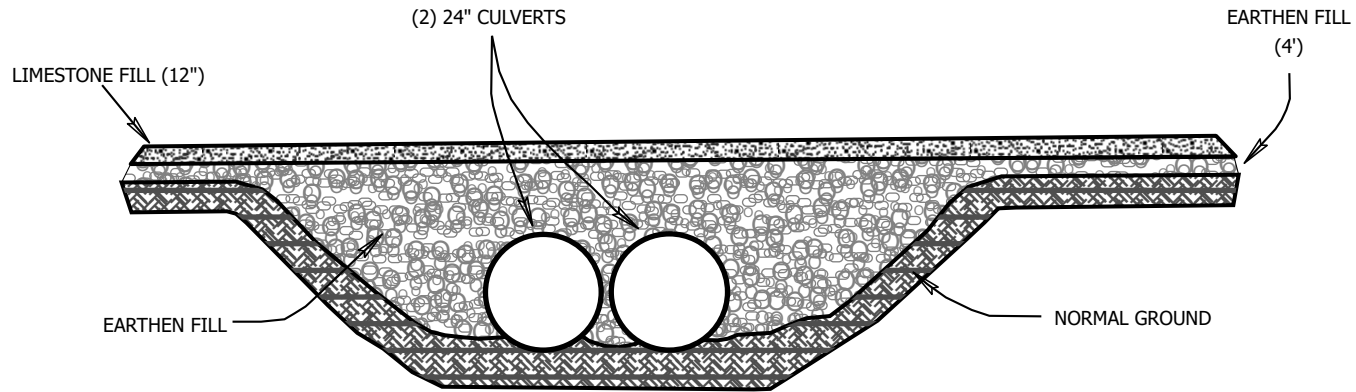
SOUTHLINE SUBSTATION &
TRANSMISSION LINE CUT-IN
LIBERTY COUNTY, TX

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DATE: 4/18/2022

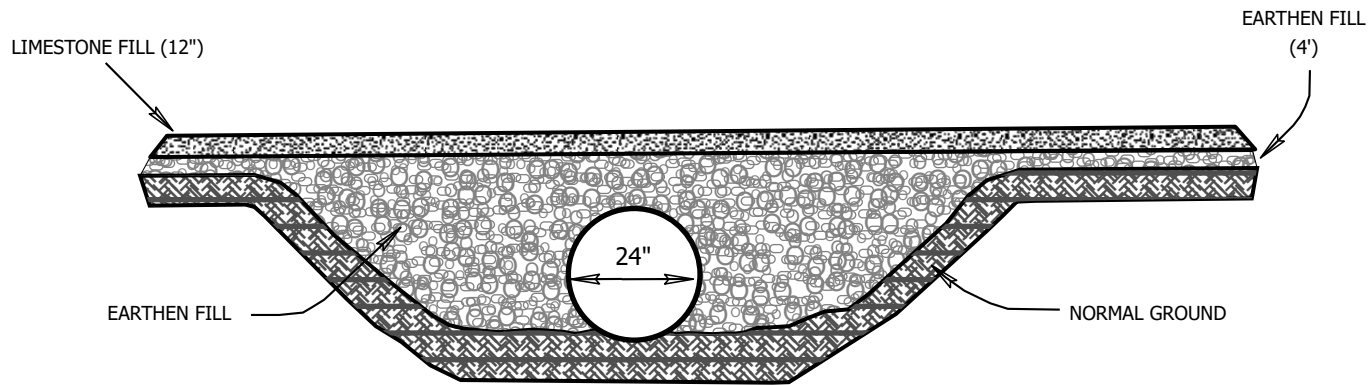
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TYPICAL DOUBLE CULVERT INSTALLATION

NO SCALE



TYPICAL SINGLE CULVERT INSTALLATION

NO SCALE

NOT TO SCALE

SHEET 4 OF 6

TYPICAL
CULVERT



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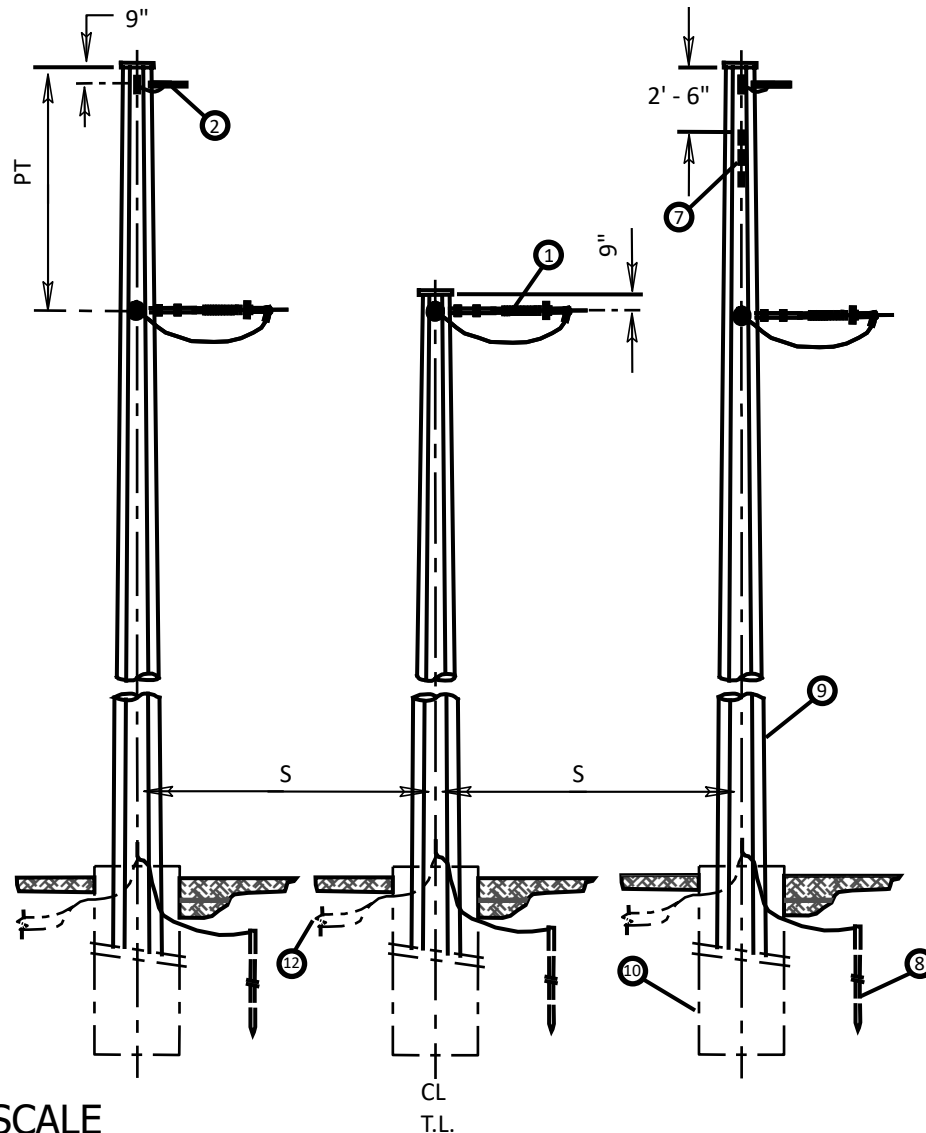
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TYPICAL POLE STRUCTURE IN PROPOSED ROW

NO SCALE

70'-120', SELF SUPPORTED, DE, 3-POLE, NO GUYS
SINGLE CIRCUIT, DEADEND POLYMER, STEEL

ASSEMBLY LIST		
ITEM	QTY.	ASSEMBLY/DRAWING
1	6	INSUL (SEE TABLE 1)
2	4	OHG-DE-XX
REFERENCE DRAWINGS		
7	1	SGN-S
8	-	GND-S-XX
9	-	SEE MFR. DWG.
10	3	FOUNDATION TYPE T.B.D.
11	-	PVO-SHT11, VIEW PV-44
12	-	ANODE-XX (IF REQ.)

VARIABLE DIMENSIONS & REF. DRAWINGS			
	69 kV	161 kV	230 kV
PT	10'-6"	13'-0"	15'-0"
S	20'-0"	25'-0"	30'-0"
INSUL	DEP/TRB-69-XX	DEP/TRB-161-XX	DEP/TRB-230-XX

NOT TO SCALE

NOTE: STRUCTURE IS TYPICAL, CONFIGURATION AND HARDWARE MAY VARY

SHEET 5 OF 6

**TYPICAL
STRUCTURE**



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NOTES:

IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITEE SHALL CONTACT THE TEXAS ONE CALL SYSTEM (1-800-344-8377). A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION ACTIVITY.

THE PERMITEE SHALL ALSO CONTACT OTHER GOVERNMENTAL ENTITIES THAT MAY HAVE OPTED OUT OF THE ONE CALL PROGRAM . THESE GOVERNMENTAL ENTITIES MAY HAVE OPERATIONS LOCATED IN THE AREA OF THIS PROJECT.

NO SURVEY DATA WAS COLLECTED IN THE PREPARATION OF THESE PLANS. INFORMATION USED TO PREPARE THESE PLANS WAS GATHERED FROM THE FOLLOWING SOURCES; CLIENT INFORMATION, INTERNET OR GOVERNMENT WEB SITE DATA.

APPLICANT IS SUBJECT TO ALL APPLICABLE STATE LAWS RELATED TO DAMAGES WHICH ARE DEMONSTRATED TO HAVE BEEN CAUSED BY THIS PROPOSED ACTION.

CALCULATIONS:

TOATAL CLEARING/GRUBBING LIMITS AREA:	6.42 ACRES
TOTAL LIMITS OF FILL AREA:	3.84 ACRES
TOTAL ACCESS ROAD AREA:	1.16 ACRES
TOTAL LIMITS OF SUBSTATION AREA:	2.25 ACRES
TOTAL DETENTION POND AREA:	0.20 ACRES
TOTAL LINEAR FEET OF STREAM IMPACTS FROM CULVERTS:	100 FEET
TOTAL EXCAVATION FOR POLE INSTALLATION:	188.5 CU. YDS. (6 POLES)
TOTAL EXCATION FOR DETENSION POND:	673.9 CU. YDS
TEMPORARY IMPACTS IN PEM WETLANDS:	0.19 ACRES
TOTAL LOSS OF WETLAND FUNCTIONS IN PEM WETLANDS:	0.003 ACRES
TOTAL LOSS OF WETLAND FUNCTIONS IN PFO WETLANDS:	1.63 ACRES
CONVERSION IMPACTS IN PFO WETLANDS FROM CLEARING/GRUBBING:	0.38 ACRES
TEMPORARY IMPACTS TO STREAMS (D-1, OW-2):	0.03 ACRES
NO DEPOSITION OF FILL ANTICIPATED IN OW-3:	0.00 ACRES
TOTAL FILL IN PEM WETLANDS FROM POLE INSTALLATION:	94.3 CU. YDS. (3 POLES)
TOTAL LIMESTONE FILL IN PFO WETLAND FROM ACCESS ROAD:	500.13 CU. YDS.
TOTAL EARTHEN FILL IN PFO WETLAND FROM ACCESS ROAD:	2,000.53 CU. YDS.
TOTAL LIMESTONE FILL IN PFO WETLANDS FROM SUBSTATION:	935.7 CU.YDS.
TOTAL EARTHEN FILL IN PFO WETLANDS FROM SUBSTATION:	7,485.9 CU. YDS.
TOTAL FILL IN PFO WETLANDS FROM RIP RAP IN DETENTION POND:	112.9 CU. YDS
TOTAL FILL IN OTHER WATERS FROM PROPOSED CULVERTS	7.41 CU. YDS.
SOUTHLINE SUBSTATION ROCK AND EARTHEN FILL:	
TOTAL LIMESTONE FILL FOR SUBSTATION AND ACCESS ROAD:	3,129.84 CU. YDS.
TOTAL EARTHEN FILL FOR SUBSTATION AND ACCESS ROAD:	27,620.3 CU. YDS

NOTES & CALCULATIONS



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