

Locations of site features are approximate based on plan sheets provided by OPPD.
Locations of geotechnical conditions are approximate based on visual field observations.



Approx. Location of Erosion Along Lower Portion of Upstream Side of Switch Yard Temporary/ Emergency Embankment/ Levee.

SP-TW44, TW45, TW46

Area adjacent to TRENWA Exhibiting Soft Soil, Poss. Piping.

Sunken Conc. Pavement Slab (9/13/2011)

Hollow Sounding Conc. Area (~2x2') 9/13/11

Broken Concrete (~1' across) at Slab Joints w/ ~4' x4' & 10' Void Space Below

Apparent Subsided Underground Utility Trench

Subsided Pavement Overlaying Underground Utility Trench

Sunken Concrete Pavement Slab at High Mast Lighting (11-9-11)

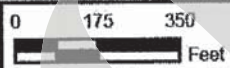
Differential Settlement of Pole-Mounted Transformer

Pavement Cracking and Minor Off-Set at Const Joints (May be Pre-Flood Cond.)

Subsided Pavement Along North Side of Parking Lot at Sidewalk

Water Observed Flowing Out of Utility Access Boxes, Reduced/Ceased as Flood Levels Dropped (8/24 to 8/25)

Some Light Poles Leaning a Few Degrees in Direction of Flow



Slabs Inside Curbing Settled ~1'

Some Light Poles Leaning a Few Degrees in Direction of Flow

- Distressed Areas
- Manhole
- Apparent Piping/Settlement
- Minor (<1' deep) Surface Erosion
- Soft Soil/Possible Piping
- Transformer
- Erosion/Scour Undermined Pavement
- Underground Utilities
- Emergency Levee
- Aqua Dam
- Sandbag Protection



Geotechnical Field Observations Fort Calhoun Station

Plant and Facility Geotechnical and Structural Assessment



DATE
Nov 2011

FIGURE
Figure 1

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