

SCANNED

Greenville Office
 148 River Street, Suite 220
 Greenville, SC 29601
 864.421.9999
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Charlotte Office
 10806 Reames Road, Suite A
 Charlotte, NC 28269
 980.312.5998
 Fax: 864.421.9909

July 17, 2019

Mr. Greg Cassidy, Brownfields Project Manager
 South Carolina Department of Health and Environmental Control
 Division of Site Assessment, Remediation, and Revitalization
 Bureau of Land and Waste Management
 2600 Bull Street
 Columbia, South Carolina 29201

RECEIVED

JUL 23 2019

SITE ASSESSMENT,
REMEDATION &
REVITALIZATION

Subject: Remedial Investigation Work Plan Addendum Monitoring Well
 Installation
 Former Bramlette Manufactured Gas Plant
 400 East Bramlette Road
 Greenville, South Carolina
 VCC 16-5857-RP

Dear Mr. Cassidy:

SynTerra requests approval to install 40 monitoring wells at the above referenced location in Greenville, SC. Thirty-one proposed wells are shown on Figure 1. Nine additional wells are included in this permit request in the event field observations warrant additional well installation. Should additional wells be desired the location and details will be provided to SCDHEC prior to installation. These wells will be installed in accordance with the Remedial Investigation Work Plan Addendum submitted to SCDHEC on July 3, 2019. A completed SCDHEC Form 3736 (Monitoring Well Application) is attached, along with a site map showing the proposed monitoring well locations and typical monitoring well construction diagrams.

The monitoring wells will be installed by a well driller certified in South Carolina using the rotary sonic method. In accordance with South Carolina R. 61-71 Well Standards, Water Well Record Form 1903 will be submitted to SCDHEC for each well within thirty (30) days of completion.

Remedial Investigation Work Plan Addendum Monitoring Well Installation
Mr. Greg Cassidy
July 17, 2019
Page 2

If you have questions or need additional information, please contact me at 864- 527-4622 or by email at tplating@synterracorp.com.

Sincerely,

SYNTERRA CORPORATION



Todd Plating, P.G. (#2620)

Project Geologist

cc: Mr. Richard Powell, Duke Energy (Via Email)

Enclosures: Monitoring Well Application
Attachment A – Property Owner’s Information
Figure 1 – Proposed Monitoring Well Locations
Figure 2 through Figure 5 – Typical Monitoring Well Construction



Monitoring Well Application

1. Proposed Location of Monitoring Well(s):

Street Address: **400 East Bramlette Road**

City (including Zip): **Greenville 29601**

County: **Greenville**

Please attach Scaled Map or Plat

5. Intended Purpose of Well(s):

Pre-Purchase

Investigation

NOTE: If this request is for an existing DHEC project, please enter the Program area and ID number below.

Program Area: **Brownfields**
Project or Site ID #: **CSXT Bramlette Road Site**

6. Proposed number of monitoring wells: **40**

2. Well Owner's Information:

Name (Last then First): **Powell, Richard**

Company: **Duke Energy Carolinas, LLC.**

Complete Address: **526 South Church Street
Mail Code EC13K
Charlotte, NC 28202**

Telephone Number: **(980) 373-2663**

7. Proposed parameters to be analyzed (check all that apply), please specify analytical method beside check box:

VOCs USEPA 8260

BTEX USEPA 8260

MtBE USEPA 8260

Naphthalene USEPA 8270

PAHs USEPA 8270

Metals

Nitrates

Base, Neutral & Acid Ex.

Pesticides/Herbicides

Phenols

Radionuclides

PCBs

Other (specify below)

3. Property Owner's Information:

Check if same as Well Owner

Name (Last then First): **See Attachment A**

Company:

Address:

Telephone Number:

8. Proposed construction details (complete and attach proposed monitoring well schematics):

See Figure 2 through 5

4. Proposed Drilling Date: **08/05/2019**

ATTACHMENT A

Location: CSXT Parcels 1, 2, 3, and 4

Name: Kevin Boland

Company: CSX Transportation, Inc.

Address: 6737 Southpoint Drive South, J-180, Jacksonville, FL
32216

Telephone Number: 904-279-3818

Location: Legacy Charter Elementary School (corner of E. Bramlette
Rd. and W. Washington St.)

Name: Kyle Kovach

Company: Legacy Charter Elementary School

Address: 1613 West Washington Avenue, Greenville, SC 29601

Telephone Number: 864-214-1600

Location: Swamp Rabbit Trail (adjacent to Reedy River)

Name: Ty Houck

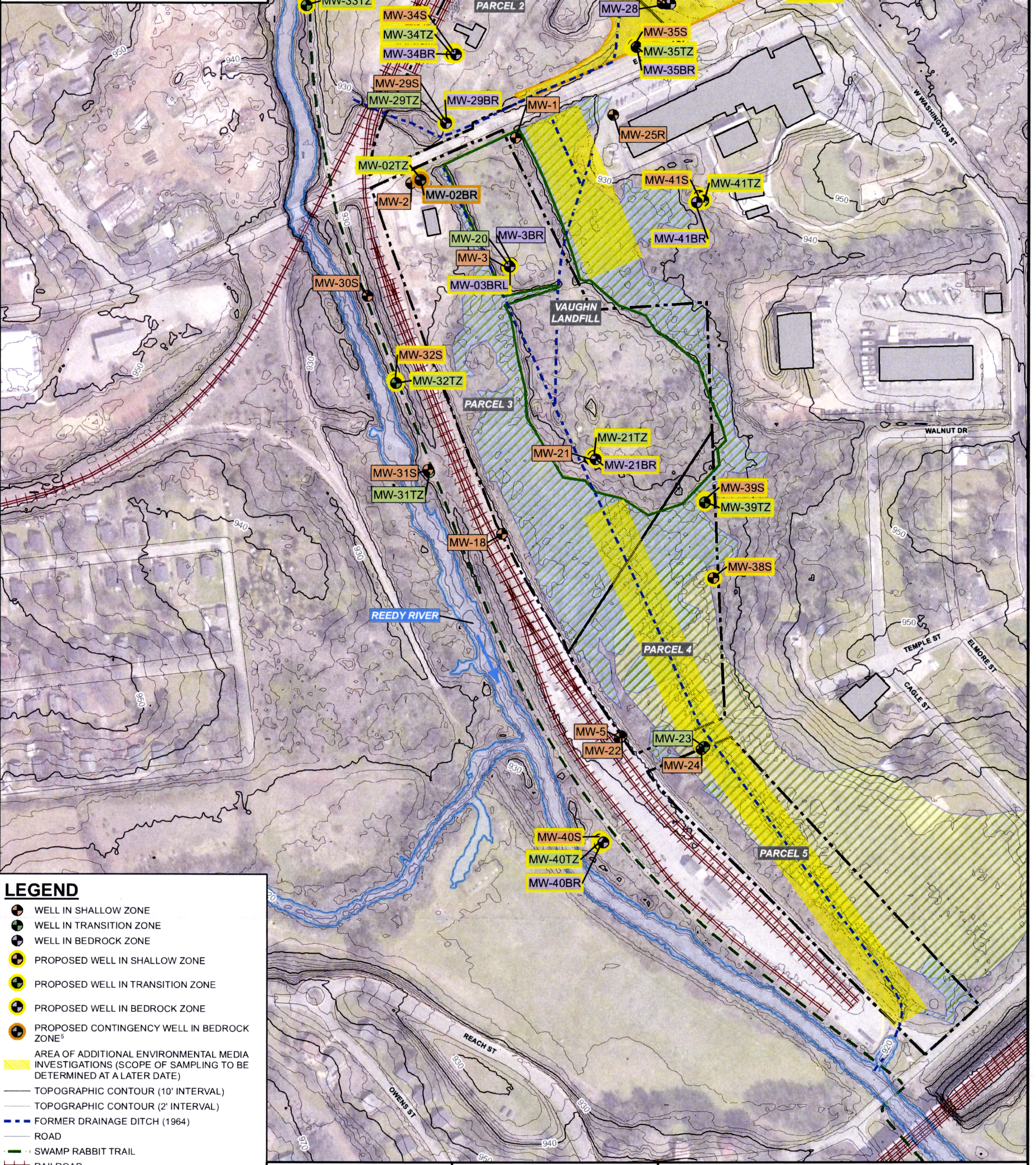
Company: Greenville County

Address: 4806 Old Spartanburg Road, Taylors, SC 29687

Telephone Number: 864-288-6470

NOTES:

- 1 ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
- 2 SURFACE WATER LOCATIONS, FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
- 3 MONITORING WELL LOCATIONS AND ELEVATIONS SURVEYED BY A SOUTH CAROLINA LICENSED PROFESSIONAL LAND SURVEYOR.
- 4 PROPOSED MONITORING WELL LOCATIONS ARE APPROXIMATE. WELL LOCATIONS ARE SUBJECT TO CHANGE FOLLOWING SITE WALK OR UTILITY LOCATING.
- 5 INSTALLATION OF SELECT BEDROCK WELLS ARE CONTINGENT ON ANALYTICAL RESULTS FROM CORRESPONDING TRANSITION ZONE WELLS.
- 6 TOPOGRAPHIC CONTOURS FOR GREENVILLE COUNTY FROM SC DNR (2013).
- 7 PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
- 8 WETLANDS (USFWS) BY US FISH AND WILDLIFE NATIONAL WETLAND INVENTORY. WETLANDS (AES) DELINEATED BY APPLIED ENGINEERING AND SCIENCE, INC. IN 1999.
- 9 SWAMP RABBIT TRAIL CENTERLINE FROM CITY OF GREENVILLE.
- 10 AERIAL PHOTOGRAPHY OBTAINED FROM GOOGLE EARTH PRO ON MAY 3, 2019. AERIAL WAS COLLECTED ON MARCH 12, 2018.
- 11 DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83 INTERNATIONAL FEET).



LEGEND

- WELL IN SHALLOW ZONE
- WELL IN TRANSITION ZONE
- WELL IN BEDROCK ZONE
- PROPOSED WELL IN SHALLOW ZONE
- PROPOSED WELL IN TRANSITION ZONE
- PROPOSED WELL IN BEDROCK ZONE
- PROPOSED CONTINGENCY WELL IN BEDROCK ZONE*
- AREA OF ADDITIONAL ENVIRONMENTAL MEDIA INVESTIGATIONS (SCOPE OF SAMPLING TO BE DETERMINED AT A LATER DATE)
- TOPOGRAPHIC CONTOUR (10' INTERVAL)
- TOPOGRAPHIC CONTOUR (2' INTERVAL)
- FORMER DRAINAGE DITCH (1964)
- ROAD
- SWAMP RABBIT TRAIL
- RAILROAD
- BUILDING
- EXCAVATED AREA (2001-2002)
- VAUGHN LANDFILL BOUNDARY
- HYDROLOGY
- PARCEL BOUNDARY
- WETLANDS (AES)
- WETLANDS (USFWS)

125 0 125 250

GRAPHIC SCALE IN FEET

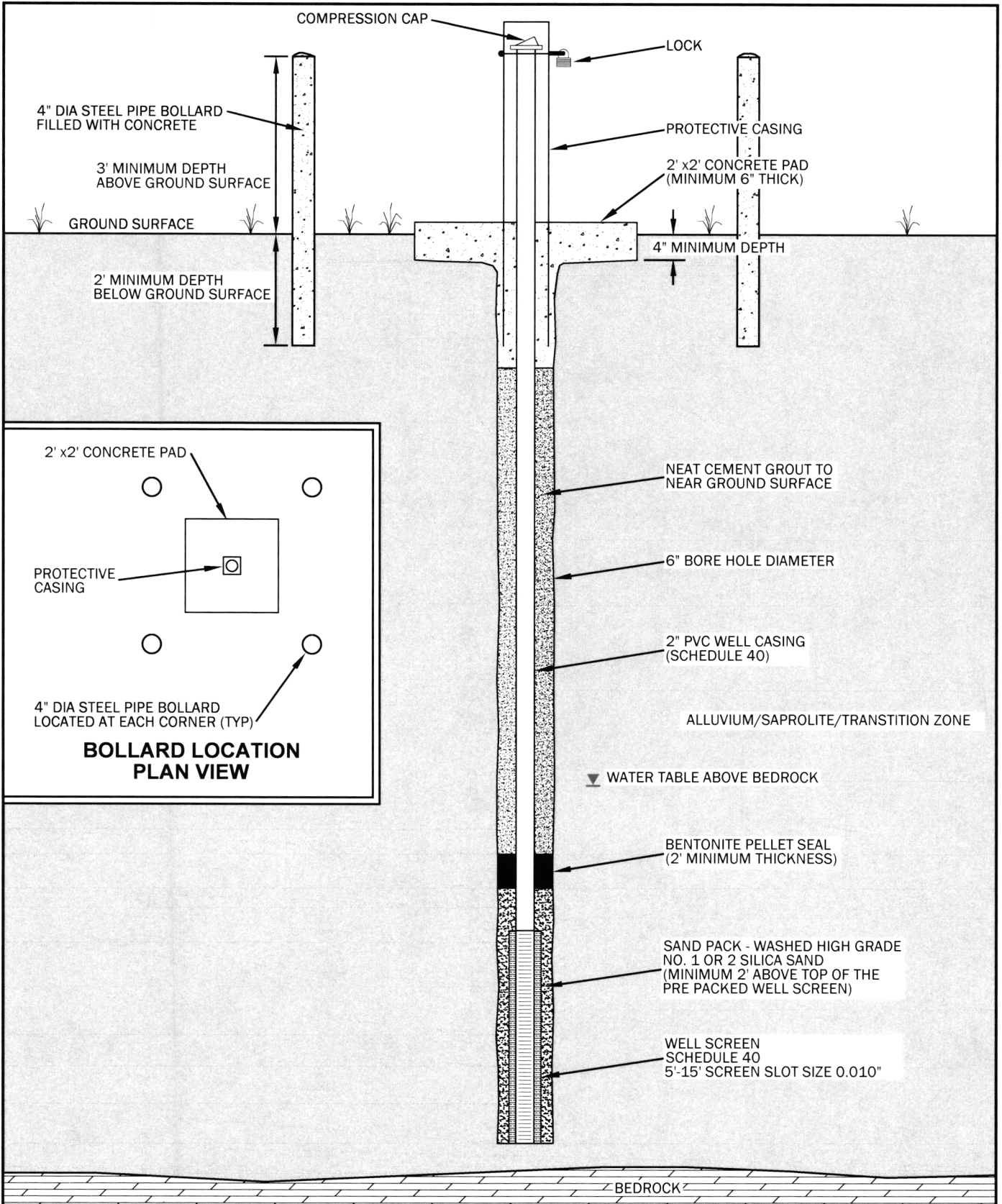
148 RIVER STREET, SUITE 220
 GREENVILLE, SOUTH CAROLINA 29601
 PHONE 864-421-9999
 www.synterracorp.com

DRAWN BY: T. KING
 PROJECT MANAGER: T. PLATING
 CHECKED BY: T. PLATING

DATE: 07/09/2019

P:\Duke Energy Carolinas\800.Duke Remediation Group\01 Bramlette MGP\GIS\Right of Entry\Figure1 Permit.mxd

FIGURE 1
PROPOSED MONITORING WELL LOCATIONS
FORMER BRAMLETTE MGP SITE
EAST BRAMLETTE ROAD
GREENVILLE, SOUTH CAROLINA

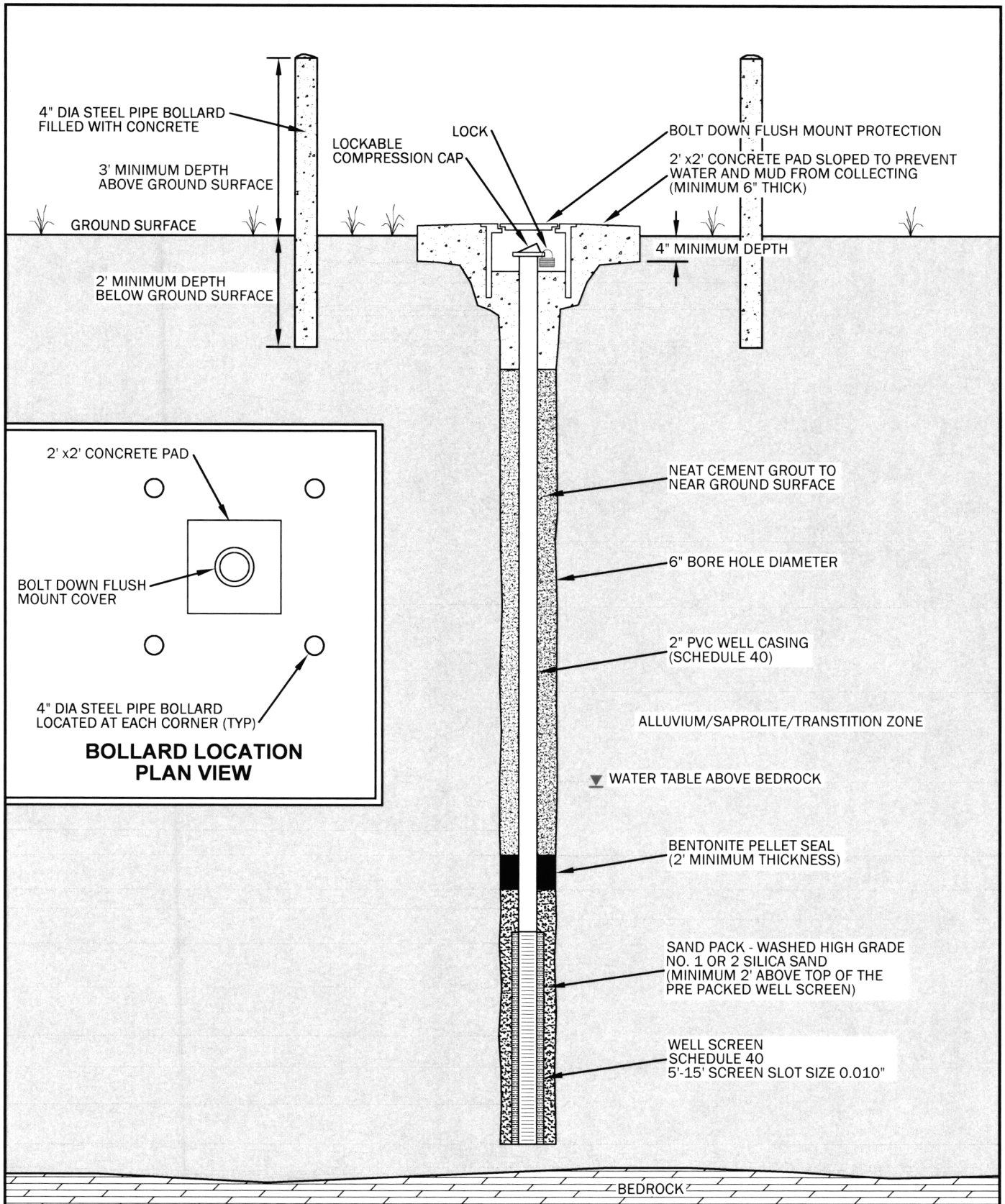


NOT TO SCALE

148 RIVER STREET, SUITE 220
 GREENVILLE, SOUTH CAROLINA 29601
 PHONE 864-421-9999
 www.synterracorp.com

DRAWN BY: JOHN CHASTAIN DATE: 01/21/2015
 PROJECT MANAGER: KATHY WEBB
 LAYOUT: 2 INCH SAPROLITE WELL STICK UP

FIGURE 2
TYPICAL SHALLOW WELL CONSTRUCTION
DETAIL - STICK UP
FORMER BRAMLETTE MGP SITE
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC

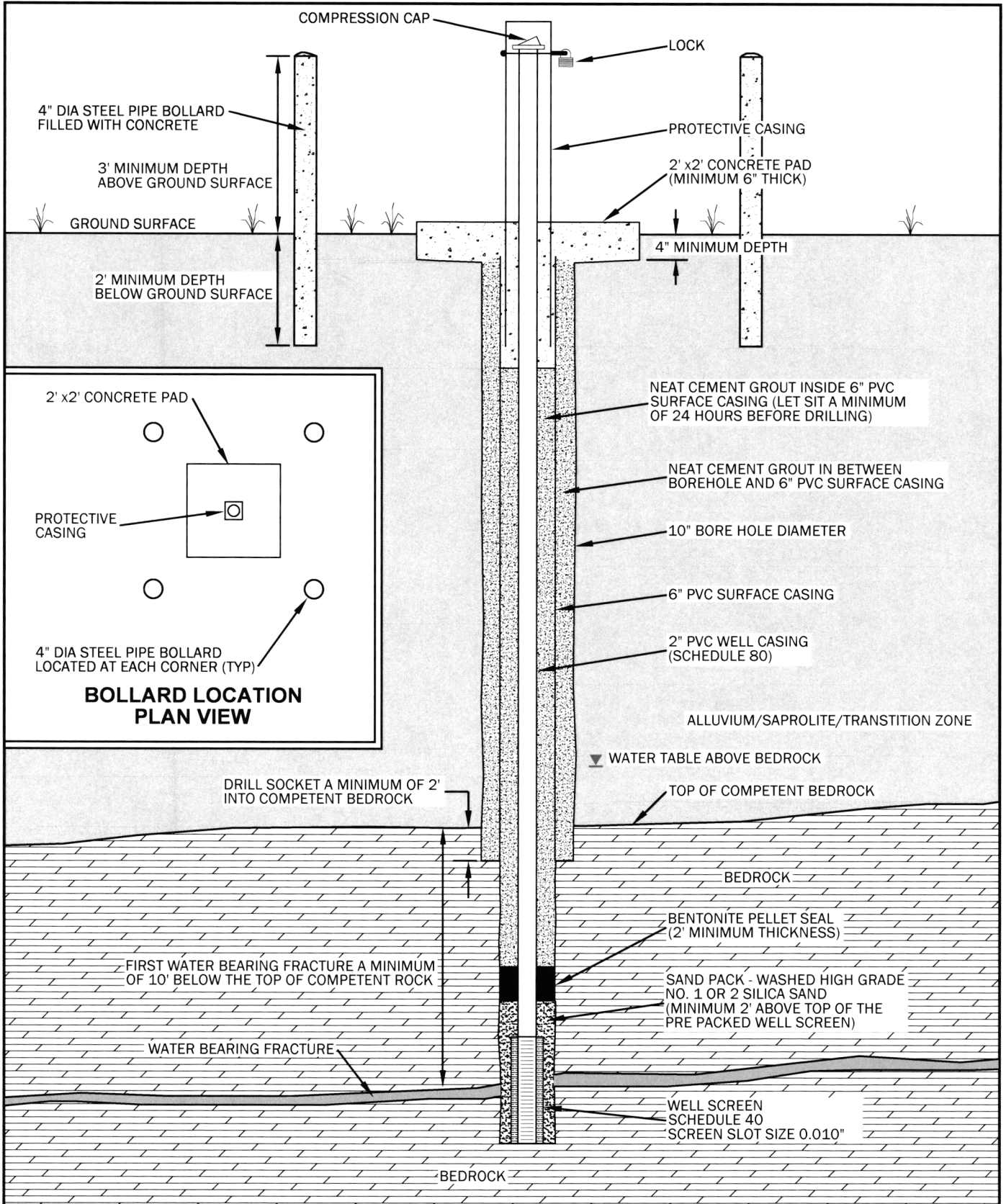


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DRAWN BY: JOHN CHASTAIN DATE: 01/21/2015
 PROJECT MANAGER: KATHY WEBB
 LAYOUT: 2 INCH SAPROLITE WELL FLUSH MOUNT

FIGURE 3
TYPICAL SHALLOW WELL CONSTRUCTION
DETAIL - FLUSH MOUNT
FORMER BRAMLETTE MGP SITE
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC

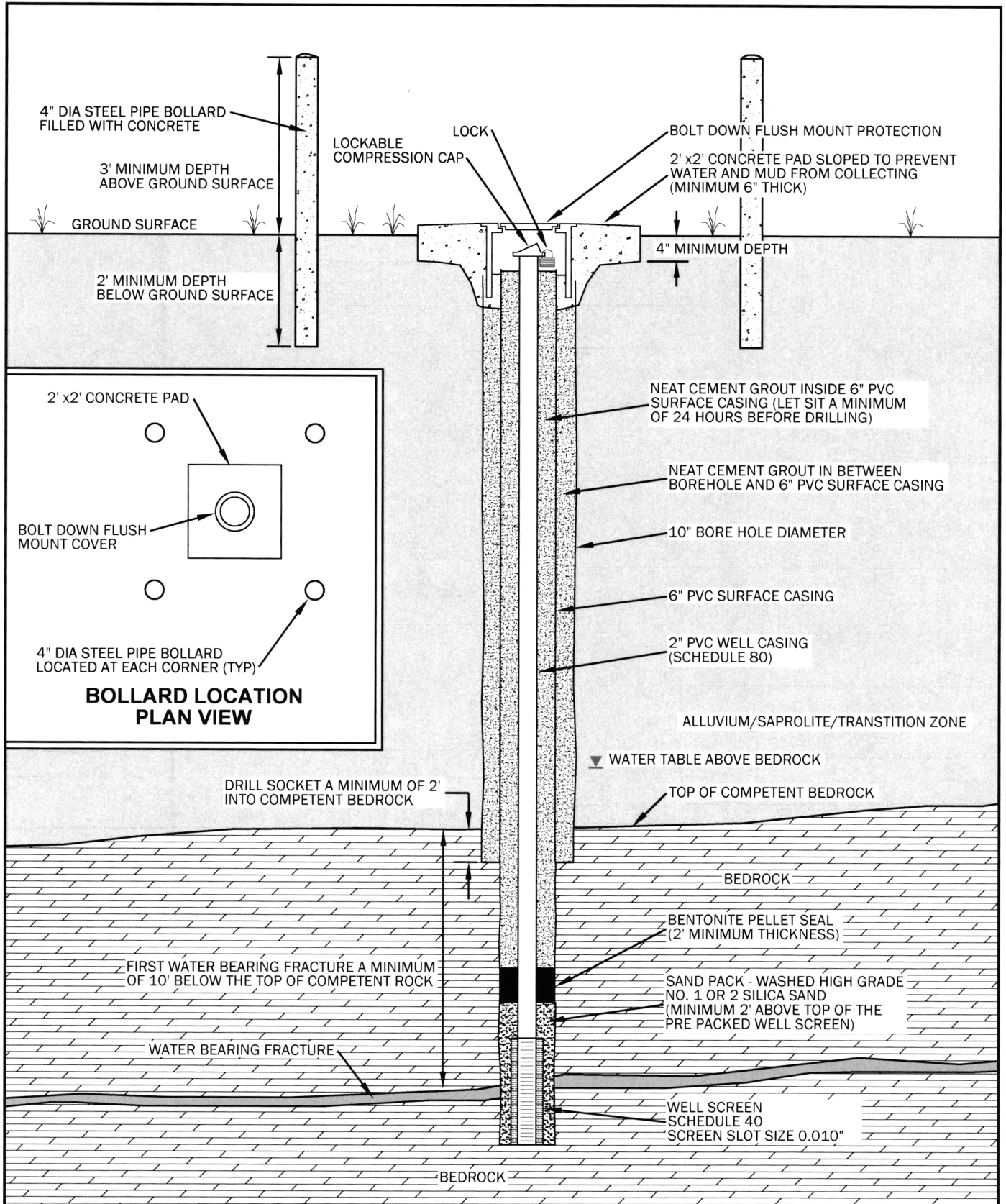


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DRAWN BY: JOHN CHASTAIN DATE: 01/21/2015
 PROJECT MANAGER: KATHY WEBB
 LAYOUT: 2 INCH BEDROCK WELL STICK UP

FIGURE 4
TYPICAL BEDROCK WELL CONSTRUCTION
DETAIL - STICK UP
FORMER BRAMLETTE MGP SITE
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC



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DRAWN BY JOHN CHASTAIN DATE: 01/21/2015
 PROJECT MANAGER KATHY WEBB
 LAYOUT: 2 INCH BEDROCK WELL FLUSH MOUNT

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FIGURE 5
TYPICAL BEDROCK WELL CONSTRUCTION
DETAIL - FLUSH MOUNT
FORMER BRAMLETTE MGP SITE
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC