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CNC CHARLESTON  
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SOIL MANAGEMENT RECORD BOOK CNC CHARLESTON SC  
6/19/2001  
CNC CHARLESTON

# **SOIL MANAGEMENT RECORD BOOK**

# CHARLESTON CARETAKER SITE OFFICE EXCAVATION PERMIT

Requester: Fill out top portion, Sign and date.

<b>Location:</b>	<b>Contractor:</b>	<b>Date of Request:</b>
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**Has the proposed work been staked out?**     **Yes**     **No**

**Facility/ Work involved (Please check below)**

Excavation <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>
Pavements <input type="checkbox"/>	Other: _____	
<b>Overhead Lines</b> :	Utilities <input type="checkbox"/>	Communications <input type="checkbox"/>
<b>Underground Lines</b> :	Utilities <input type="checkbox"/>	Communications <input type="checkbox"/>
<b>Method of Excavation:</b>	Hand <input type="checkbox"/>	Power Shovel <input type="checkbox"/>
	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>

Other: \_\_\_\_\_

**Scope Of Work:** (Depth, width, length, location & sketch as applicable, road closure, service interruption, etc.)

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Excavator(s) must establish locations and depths of utilities in work area prior to digging. Locations of utilities as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required:</b>	<b>Termination Date of Permit:</b>
_____	_____
<b>Signature of Requesting Official:</b>	<b>Date:</b> <b>Phone Number:</b>
_____	_____                      _____

Caretaker Site Office Review	
<b>Points of Contact:</b> <b>CPW :</b> Robert Sagasser (work) 529-0653 (page) 570-0390  <b>SCE&amp;G:</b> R.W. Smith (work) 745-6381  <b>Sewer:</b> Kelly Singer (work) 764-3072  <b>RDA:</b> Gene Kniesley (work) 747-0010	<ol style="list-style-type: none"> <li>1. Who is the current Land Owner/ Leasee? _____</li> <li>2. Is the Area inside the CIA?                      <input type="checkbox"/> Yes    <input type="checkbox"/> No</li> <li>3. Are any SWMU(s) impacted?    If yes, list.                      <input type="checkbox"/> Yes    <input type="checkbox"/> No ( _____ )</li> <li>4. Are any AOC(s) impacted?    If yes, list.                      <input type="checkbox"/> Yes    <input type="checkbox"/> No ( _____ )</li> <li>5. Has DHEC been notified?                      <input type="checkbox"/> Yes    <input type="checkbox"/> No</li> <li>6. Will soil need to be temporarily stockpiled?                      <input type="checkbox"/> Yes    <input type="checkbox"/> No</li> <li>7. What constituents will soil be tested for? _____</li> <li>8. Soil Test results above residential background?                      <input type="checkbox"/> Yes    <input type="checkbox"/> No</li> <li>9. Soil Test results above industrial background?                      <input type="checkbox"/> Yes    <input type="checkbox"/> No</li> <li>10. Area where soil is to be stockpiled?                      <u>(See Attached Map)</u></li> <li>11. What is the serial # of forwarding letter to RDA? _____</li> <li>12. Send courtesy copy to CH2MHill/JA Jones.                      <input type="checkbox"/> Yes    <input type="checkbox"/> No</li> </ol> <p style="text-align: right;"><b>Permit Approved?</b>    <input type="checkbox"/> Yes    <input type="checkbox"/> No</p>

**CSO Authorizing Signature:** \_\_\_\_\_                      **Date out:** \_\_\_\_\_

Serial Number: \_\_\_\_\_

# CHARLESTON CARETAKER SITE OFFICE EXCAVATION PERMIT

Requester: Fill out top portion, Sign and date.

<b>Location:</b>	<b>Contractor:</b>	<b>Date of Request:</b>
------------------	--------------------	-------------------------

**Has the proposed work been staked out?**       Yes       No

**Facility/ Work involved (Please check below)**

Excavation <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>
Pavements <input type="checkbox"/>	Other: _____ <input type="checkbox"/>	
<b>Overhead Lines</b> :	Utilities <input type="checkbox"/>	Communications <input type="checkbox"/>
<b>Underground Lines</b> :	Utilities <input type="checkbox"/>	Communications <input type="checkbox"/>
<b>Method of Excavation:</b>	Hand <input type="checkbox"/>	Power Shovel <input type="checkbox"/>
	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>

Other: \_\_\_\_\_

**Scope Of Work:** (Depth, width, length, location & sketch as applicable, road closure, service interruption, etc.)

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Excavator(s) must establish locations and depths of utilities in work area prior to digging. Locations of utilities as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required:</b>	<b>Termination Date of Permit:</b>
<b>Signature of Requesting Official:</b>	<b>Date:</b>
	<b>Phone Number:</b>

**Caretaker Site Office Review**

<p><b>Points of Contact:</b></p> <p><b>CPW :</b> Robert Sagasser (work) 529-0653 (page) 570-0390</p> <p><b>SCE&amp;G:</b> R.W. Smith (work) 745-6381</p> <p><b>Sewer:</b> Kelly Singer (work) 764-3072</p> <p><b>RDA:</b> Gene Kniesley (work) 747-0010</p>	<ol style="list-style-type: none"> <li>1. Who is the current Land Owner/ Leasee? _____</li> <li>2. Is the Area inside the CIA?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>3. Are any SWMU(s) impacted?    If yes, list.      <input type="checkbox"/> Yes      <input type="checkbox"/> No (_____)</li> <li>4. Are any AOC(s) impacted?    If yes, list.      <input type="checkbox"/> Yes      <input type="checkbox"/> No (_____)</li> <li>5. Has DHEC been notified?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>6. Will soil need to be temporarily stockpiled?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>7. What constituents will soil be tested for? _____</li> <li>8. Soil Test results above residential background?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>9. Soil Test results above industrial background?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>10. Area where soil is to be stockpiled?      (See Attached Map)</li> <li>11. What is the serial # of forwarding letter to RDA? _____</li> <li>12. Send courtesy copy to CH2MHill/JA Jones.      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> </ol> <p style="text-align: right;"><b>Permit Approved?</b>      <input type="checkbox"/> Yes      <input type="checkbox"/> No</p>
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<b>CSO Authorizing Signature:</b> _____	<b>Date out:</b> _____
	<b>Serial Number:</b> _____

# CHARLESTON CARETAKER SITE OFFICE EXCAVATION PERMIT

Requester: Fill out top portion, Sign and date.

<b>Location:</b>	<b>Contractor:</b>	<b>Date of Request:</b>
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<b>Has the proposed work been staked out?</b>		<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>
<b>Facility/ Work involved (Please check below)</b>			
Excavation <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	
Pavements <input type="checkbox"/>	Other: _____		
<b>Overhead Lines</b> :	Utilities <input type="checkbox"/>	Communications <input type="checkbox"/>	
<b>Underground Lines</b> :	Utilities <input type="checkbox"/>	Communications <input type="checkbox"/>	
<b>Method of Excavation:</b>	Hand <input type="checkbox"/>	Power Shovel <input type="checkbox"/>	<input type="checkbox"/> Other: _____
	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>	

**Scope Of Work:** (Depth, width, length, location & sketch as applicable, road closure, service interruption, etc.)

Excavator(s) must establish locations and depths of utilities in work area prior to digging. Locations of utilities as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required:</b>	<b>Termination Date of Permit:</b>
_____	_____
<b>Signature of Requesting Official:</b>	<b>Date:</b> _____ <b>Phone Number:</b> _____
_____	_____

## Caretaker Site Office Review

<p><b>Points of Contact:</b></p> <p><b>CPW :</b> Robert Sagasser (work) 529-0653 (page) 570-0390</p> <p><b>SCE&amp;G:</b> R.W. Smith (work) 745-6381</p> <p><b>Sewer:</b> Kelly Singer (work) 764-3072</p> <p><b>RDA:</b> Gene Kniesley (work) 747-0010</p>	<ol style="list-style-type: none"> <li>1. Who is the current Land Owner/ Leasee? _____</li> <li>2. Is the Area inside the CIA? <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>3. Are any SWMU(s) impacted? If yes, list. <input type="checkbox"/> Yes <input type="checkbox"/> No (_____)</li> <li>4. Are any AOC(s) impacted? If yes, list. <input type="checkbox"/> Yes <input type="checkbox"/> No (_____)</li> <li>5. Has DHEC been notified? <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>6. Will soil need to be temporarily stockpiled? <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>7. What constituents will soil be tested for? _____</li> <li>8. Soil Test results above residential background? <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>9. Soil Test results above industrial background? <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>10. Area where soil is to be stockpiled? <u>(See Attached Map)</u></li> <li>11. What is the serial # of forwarding letter to RDA? _____</li> <li>12. Send courtesy copy to CH2MHill/JA Jones. <input type="checkbox"/> Yes <input type="checkbox"/> No</li> </ol>
<b>Permit Approved?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	

**CSO Authorizing Signature:** \_\_\_\_\_ **Date out:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

# CHARLESTON CARETAKER SITE OFFICE EXCAVATION PERMIT

Requester: Fill out top portion, Sign and date.

<b>Location:</b>	<b>Contractor:</b>	<b>Date of Request:</b>
------------------	--------------------	-------------------------

**Has the proposed work been staked out?**       Yes       No

**Facility/ Work involved (Please check below)**

Excavation <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>
Pavements <input type="checkbox"/>	Other: _____ <input type="checkbox"/>	
<b>Overhead Lines</b> :	Utilities <input type="checkbox"/>	Communications <input type="checkbox"/>
<b>Underground Lines</b> :	Utilities <input type="checkbox"/>	Communications <input type="checkbox"/>
<b>Method of Excavation:</b>	Hand <input type="checkbox"/>	Power Shovel <input type="checkbox"/>
	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>

Other: \_\_\_\_\_

**Scope Of Work:** (Depth, width, length, location & sketch as applicable, road closure, service interruption, etc.)

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Excavator(s) must establish locations and depths of utilities in work area prior to digging. Locations of utilities as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required:</b> _____	<b>Termination Date of Permit:</b> _____
<b>Signature of Requesting Official:</b> _____	<b>Date:</b> _____ <b>Phone Number:</b> _____

## Caretaker Site Office Review

<p><b>Points of Contact:</b></p> <p><b>CPW :</b> Robert Sagasser (work) 529-0653 (page) 570-0390</p> <p><b>SCE&amp;G:</b> R.W. Smith (work) 745-6381</p> <p><b>Sewer:</b> Kelly Singer (work) 764-3072</p> <p><b>RDA:</b> Gene Kniesley (work) 747-0010</p>	<ol style="list-style-type: none"> <li>1. Who is the current Land Owner/ Leasee? _____</li> <li>2. Is the Area inside the CIA?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>3. Are any SWMU(s) impacted?    If yes, list.      <input type="checkbox"/> Yes      <input type="checkbox"/> No (_____)</li> <li>4. Are any AOC(s) impacted?    If yes, list.      <input type="checkbox"/> Yes      <input type="checkbox"/> No (_____)</li> <li>5. Has DHEC been notified?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>6. Will soil need to be temporarily stockpiled?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>7. What constituents will soil be tested for? _____</li> <li>8. Soil Test results above residential background?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>9. Soil Test results above industrial background?      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> <li>10. Area where soil is to be stockpiled?      <u>(See Attached Map)</u></li> <li>11. What is the serial # of forwarding letter to RDA? _____</li> <li>12. Send courtesy copy to CH2MHill/JA Jones.      <input type="checkbox"/> Yes      <input type="checkbox"/> No</li> </ol>
<b>Permit Approved?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	

**CSO Authorizing Signature:** \_\_\_\_\_      **Date out:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

## Daniell, Amy (Efdsouth)

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**From:** Daniell, Amy (Efdsouth)  
**Sent:** Tuesday, June 19, 2001 9:56 AM  
**To:** 'mehtam@columb34.dhec.state.sc.us'  
**c:** Humphrey, Matthew (Efdsouth); Hunt, Tony (Efdsouth)  
**Subject:** Notification of SCE&G to install power pole at Pier "Q"

This e-mail's purpose is to provide you with notification that SCE&G will be installing a power pole in the area of AOC 673. We have notified SCE&G that they will be digging in an area of concern and to take necessary precautions to minimize any dermal exposure to their workers. They are also to stop work immediately if there is suspect soil or an unusual odor. Please contact our office if you have any questions or concerns.



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

11000  
Ser CSO/36  
19 June 2001

Mr. Sean McDonell  
Charleston Naval Complex Redevelopment Authority  
1360 Truxton Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell:

**SUBJECT: SCANG REQUEST TO INSTALL POWER POLE AT PIER "Q"**

Your request 6 June 2001 to install a power pole at Pier "Q" has been approved. Please be aware that you are working in an area of concern for environmental contamination. Please ensure your workers are wearing proper personal protective equipment and that precautions are taken. If at any time, the soil is suspect, please notify our office immediately.

Please address any further comments regarding this proposed work to Amy Daniell at 743-9985.

Sincerely,

A handwritten signature in cursive script, appearing to read "M. W. Humphrey".

M. W. HUMPHREY  
Caretaker Site Officer  
By direction of the Commander

## CHARLESTON CARETAKER SITE OFFICE EXCAVATION PERMIT

CSO Log Number = 014  
Request Date = 6 June 2001  
Comments Date = 19 June 2001  
Location = Pier Q

### Environmental Review Comments

This project proposes the following: (a) installing a power pole.

The Navy has identified that in this area a release of hazardous substance has occurred, required actions have not yet been implemented. It is recommended that SCANG personnel ensure necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during the project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris can be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact our office for disposal instructions.

If excess soil is not able to be reused and needs to be disposed, please contact our office. Note that no soil can leave the site without prior environmental testing. Point of contact is Amy Daniell, CSO Environmental, at (843) 743-9985.

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

**Location:** Qual wall next to Pier Q **Contract No:** **Date:** 6 June 2001

Has work been staked out? Yes  No

**Facility/Work Involved**

Excavation  Pavements  Drainage  Railroad Tracks  Other  see scope of work below  
 Overhead Lines  Utility  Communications  Underground Lines  Utility  Communications

**Method of Excavation**

Hand  Power Shovel  Ditcher  Auger  Other

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

Installing electrical power pole to provide electrical power to trailer for Project REEF-X 2001

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, available pipe locators or other approved methods.

**Date Permit Required** 6 June 2001 **Termination Date of Permit**  
**Signature (Requesting Party)** MAJ JAN K. HANES SCARNG-DOL-PLANS **Date** 6 June 2001 **Phone Number** 1-803-806-4493

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date

14

Points of Contact		Remarks/Action	Environmental Signature and Date
Water		SouthDiv Code 02	
Robert Sagaser - CPW	520-0953	SouthDiv Code 18	
Sewer		CSO Environmental Compliance	Mantel Huely 6/19/01
Robert Judy - NCSO	761-3111	SWMU # AOC # 673 Tank #	
Electricity		BRAC Environmental Coordinator (BEC)	
R. W. Smith - SCE&G	741-6535		

**Caretaker Site Office**  
 Permit Approved?  YES  NO

NA  
 CSO Utility Manager (Signature and Date)

**James C. Bryan**  
*Chairman*

**Lonnie Hamilton, III**  
*Vice Chairman*

**Ronnie M. Givens**  
*Secretary/Treasurer*

**James M. Deaton**  
*Assistant Secretary/Treasurer*



**Susan K. Dunn**

**James S. Minor, Jr.**

**Eugene R. Ott**

**Jack C. Sprott**  
*Executive Director*

June 13, 2001

Mr. Matthew W. Humphrey  
Charleston Caretaker Site Officer  
Southern Division, Naval Facilities Engineering Command  
P. O. Box 190010  
North Charleston, SC 29419-9010

**Subject: SCARNG PIER "Q" POWER POLE INSTALLATION REQUEST**

Dear Matt:

We are forwarding the subject digging permit request SCE & G to install a power pole at Pier "Q". This power pole will be used to support the SCARNG effort to launch barges that will become artificial reefs. We are forwarding this permit request as it was faxed to our office. As this state agency is requesting work on a non-leased portion of property, please forward your comments directly to the SCARNG as there is no CNCRA involvement in this transaction.

Please contact me with any questions you have regarding this request.

Sincerely,

Sean P. McDonell, P. E.  
Engineering Director

/enclosure

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 010  
Request Date = 4 April 2001  
Comments Date = 9 July 2001  
Location = Bldg 8 and Ave D

### Environmental Review Comments

This project proposes to install electrical cable junction on the south side of bldg 8 next to Ave 'D'.

The Navy has identified an area where there has been a release of contamination in the vicinity of bldg 8. Digging in this area is not prohibited, but caution should be exercised. It is recommended that SCE&G take the necessary precautions to minimize dermal exposure to any workers who may come in contact with the soil.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris can be disposed of as construction waste.

If excess soil is not able to be reused and needs to be disposed, please contact our office. Note that no soil can leave the site without prior environmental testing. Point of contact is Matt Humphrey, CSO Environmental, at (843) 743-9985.

## Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

Location: <u>BLD 8 Ave "D"</u>	Contract No: <u>S.C.E &amp; G</u>	Date: <u>4 APRIL 01</u>
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Has work been staked out?    Yes    No

<b>Facility/Work Involved</b>			
Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>
<b>Overhead Lines</b>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	Other _____
Hand <input type="checkbox"/>	Power Shovel <input checked="" type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>
		<b>Underground Lines</b>	
		Utility <input checked="" type="checkbox"/>	Communications <input type="checkbox"/>
		Other _____	

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

See sketch

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

Date Permit Required: <u>April 9, 2001</u>	Termination Date of Permit: <u>April 13, 2001</u>	
Signature (Requesting Official): <u>Richard W. Smith</u>	Date: <u>April 3, 2001</u>	Phone Number: <u>745-6381</u>

### Clearance Review/Routing (CSO Use Only)

CSO Log In Number/Date

010

Points of Contact		Environmental	
		Remarks/Action	Signature and Date
Water		SouthDiv Code 02	
Robin Harris - CPW	529-0653	SouthDiv Code 18	
Sewer		CSO Environmental Compliance	[Signature] 9 APRIL 01
Robert Judy - NCSD	764-3072	BRAC Environmental Coordinator (BEC)	
City			
R. W. Smith - SCE&G	745-6013	Caretaker Site Office Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
		[Signature] CSO Utility Manager	(Signature and Date)



DR.

451-B

43

445-A

147

63

THIRD ST.

44 57

5

5

32

31

391

1246

400

NSC 45

4

58

6

6 ST.

55

HOBSON AVENUE

35

1127

8

AVENUE "D"

1138

7

234

WEST

1655

STREET

COND

67

**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

5090

Ser CSO/018

15 March, 2001

Mr. Sean P. McDonell, P.E.  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr.; McDonell

**SUBJECT: BELLSOUTH TELEPHONE CABLE INSTALLATION REQUEST.**

This letter is in response to your letter dated March 9, 2001, which submitted a project to install approximately 5LF of buried telephone cable at the intersection of Avenue "D" South and Calumet Street also this project proposes the installation of approximately 100LF of buried telephone cable from manhole on Avenue "D" to the existing pedestal on Kepar Street, for our consideration and approval.

The Navy has identified this to be an area where of hazardous substance has occurred, but at concentrations that do not require removal or remedial actions. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that Bellsouth Telecommunications ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,



M. W. HUMPHREY

Caretaker Site Officer

By direction of the Commander

Enclosure: Digging Permit #006 with comments

## **Charleston Caretaker Site Office Excavation Permit**

CSO Log Number = 006

Request Date = 09 March, 2001

Comments Date = 15 March, 2001

Location = Avenue "D" South and Calumet Street also Avenue "D" and Kephart Street.

### Environmental Review Comments

This project proposes the installation of approximately 5LF of buried telephone cable at the intersection of Avenue "D" South and Calumet Street also this project proposes the installation of approximately 100LF of buried telephone cable from manhole on Avenue "D" to the existing pedestal on Kephart Street.

The Navy has identified this to be areas where release of hazardous substance has occurred, but at concentrations that do not require removal or remedial actions. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that Bellsouth Telecommunications ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact Our office for disposal instructions.

. Note that no soil can leave the site without prior environmental testing. Point of contact is Matt Humphrey, CSO Environmental, at (843) 743-9985.

## Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date & Sign

09C21927N

Clearance is requested to proceed with work as follows:

<b>Location:</b> Avenue D		<b>Contract No:</b>	<b>Date:</b>
<b>Has work been staked out?</b> Yes    No			
<b>Facility/Work Involved</b>			
Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>
<b>Overhead Lines</b>		<b>Underground Lines</b>	
Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>
<b>Method of Excavation</b>			
Hand <input checked="" type="checkbox"/>	Power Shovel <input checked="" type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>
Other _____ <input type="checkbox"/>			

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

At the intersection of Avenue D and Calumet Street place 5 feet of buried cable on the southwest side of the intersection. Also place 100 feet of cable from a manhole on Avenue D at 5th Street West over to an existing pedestal on Keparat Street.

See Attached sketch for details.

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required</b> <i>ASAP</i>	<b>Termination Date of Permit</b> <i>1 OCT 01</i>	
<b>Signature (Requesting Official)</b> <i>Anne P. Johnson</i>	<b>Date</b> <i>3-7-01</i>	<b>Phone Number</b> <i>722-51168</i>

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date  
*0016*

Points of Contact	Remarks/Action	Environmental Signature and Date
Water  Robin Harris - CPW                      529-0653	SouthDiv Code 02  SouthDiv Code 18	
Sewer  Robert Judy - NCSO                      764-3072	CSO Environmental Compliance SWMU # _____ AOC # _____ Tank # _____	<i>Matthew Stephens</i> <i>3/23/01</i>
Electricity  R. W. Smith - SCE&G                      745-8013	BRAC Environmental Coordinator (BEC)	
Caretaker Site Office		
Permit Approved? <input type="checkbox"/> YES <input type="checkbox"/> NO		

**James C. Bryan**  
*Chairman*

**Lonnie Hamilton, III**  
*Vice Chairman*

**Ronnie M. Givens**  
*Secretary/Treasurer*

**James M. Deaton**  
*Assistant Secretary/Treasurer*



**Susan K. Dunn**

**James S. Minor, Jr.**

**Eugene R. Ott**

**Jack C. Sprott**  
*Executive Director*

March 9, 2001

Mr. Matthew W. Humphrey  
Charleston Caretaker Site Officer  
Southern Division, Naval Facilities Engineering Command  
P. O. Box 190010  
North Charleston, SC 29419-9010

**Subject: BELLSOUTH TELEPHONE CABLE INSTALLATION REQUEST**

Dear Matt:

We are forwarding the subject request from BellSouth to install buried telephone cable at the intersection of Avenue "D" South and Calumet Street (approx. 5 LF) and also from a manhole on Avenue "D" to an existing pedestal on Kephart Street (approx. 100 LF). An excavation permit request is included for this work.

Please review this information and provide us with your comments.

Sincerely,

Sean P. McDonell, P. E.  
Engineering Director

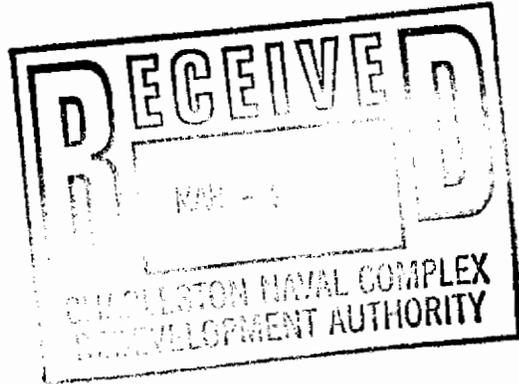
/enclosures

BellSouth Telecommunications, Inc.  
Room 322  
385 Meeting Street  
Charleston, South Carolina 29403

Job # 09C21927N

March 6, 2001

Ms. Jeri Johnson  
Operations Director  
Charleston Naval Complex  
Redevelopment Authority  
1360 Truxtun Avenue  
North Charleston, SC 29405



BellSouth Telecommunications requests permission to place the following buried cable. At the intersection of Avenue D and Calumet Street place 5 feet of buried cable on the southwest side of the intersection. Also place 100 feet of buried cable from a manhole on Avenue D at 5<sup>th</sup> Street West over to an existing pedestal on Kephart Street.

See attached sketches for details.

If you have any questions, please contact Anne Dollason at 722-5168.

Yours truly,

Anne P. Dollason  
Loop Capacity Manager

Attachments

FACILITY OUTAGE REQUEST  
CNSYD-11300/23 (Rev. 2-81)

DATE

CNSYDINST 11300.7A

FROM

BellSouth Telecommunications - Anne Dollason

TO

Attn: Sean McDonnell

1. IT IS REQUESTED THAT ARRANGEMENTS BE MADE FOR OBTAINING AN OUTAGE ON THE BELOW FACILITY:

CRANE TRACKAGE

STREET/ROAD

RAILROAD TRACKAGE

OTHER

2. TIME AND DATE OF OUTAGE

FROM:

TIME

DATE

TO

TIME

DATE

3. LOCATION AND TYPE OF WORK TO BE ACCOMPLISHED

At the intersection of Avenue D and Calumet Street place 5 feet of buried cable on the southwest side of the intersection. Also place

100 feet of cable from a manhole on Avenue D at 5th St. West over to an

4. WORK TO BE PERFORMED BY

existing pedestal on Kephart St.  
See attached sketch for details.

5. CONTRACT/JOB CONTROL NUMBER

SIGNATURE

Anne P. Dollason

DATE

3-7-01

FROM

TO

1. OUTAGE REQUEST RETURNED

APPROVED

DISAPPROVED

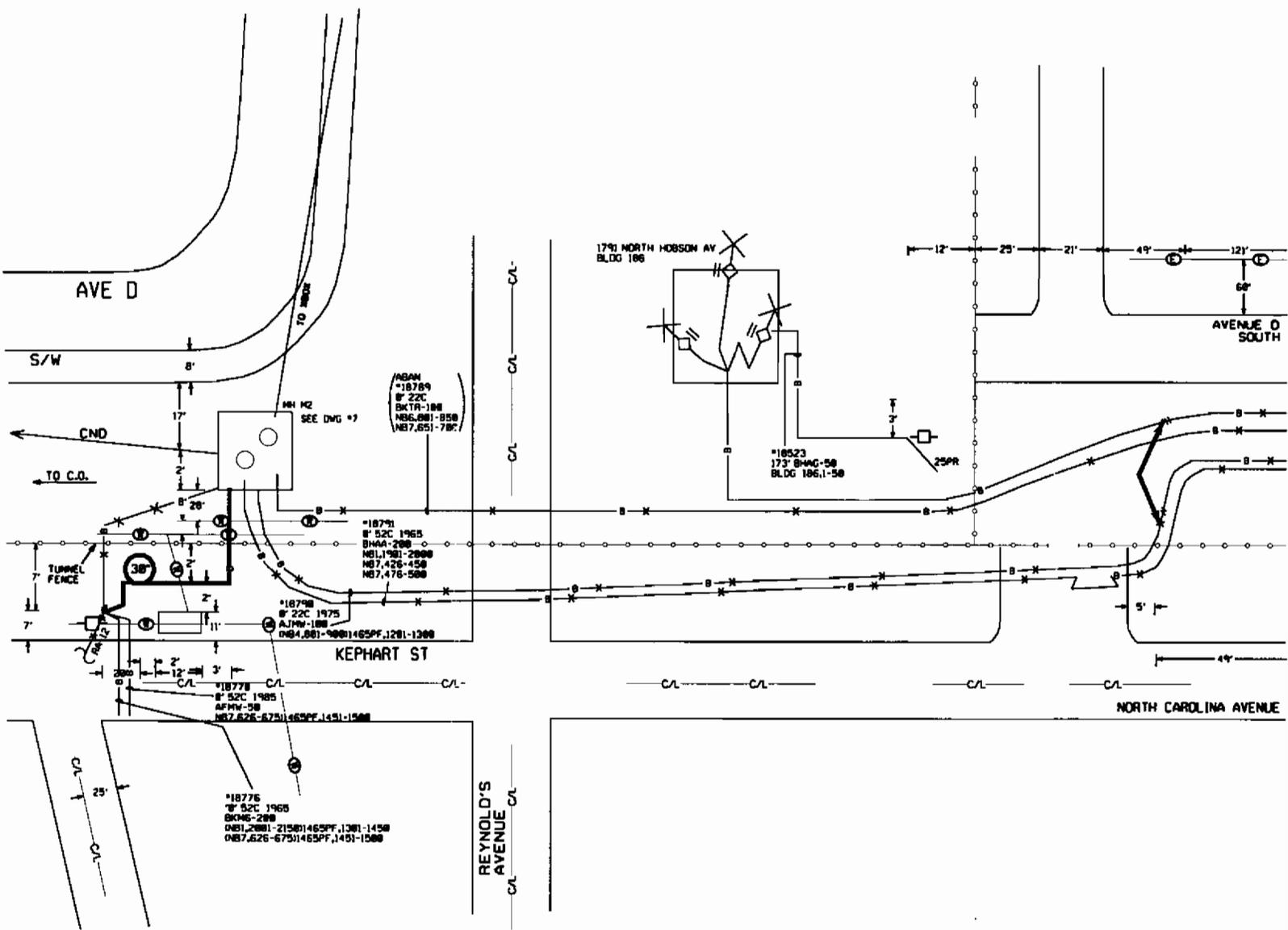
2. REMARKS/REASON FOR DISAPPROVAL

3. RESCHEDULED DATES/TIMES

SIGNATURE



SYMBOL LEGEND		
Proposed	Existing	Description
		AERIAL CABLE
		BURIED CABLE
		BUR JOINT-TRENCH
		BST POLE
		POWER POLE
		ANCHOR & CUT
		PUSH BRACE
		ENCLOSURE
		ENCLOSURE
		MANHOLE
		PIPE/CONDUIT
		CABLE MARKER
		AERIAL SVC WIRE
		AERIAL SVC WIRE
		BURIED SVC WIRE
		BURIED SVC WIRE
		JOINT-TRENCH SVC
	N/A	BORE
	N/A	CUT PAVEMENT
	N/A	SPLICING PIT
	N/A	TRENCH LENGTH



BellSouth Telecommunications

PROPOSED TELEPHONE FACILITIES  
ON RIGHT OF WAY OF  
RDA/NAVY

SOUTH CAROLINA

Exchange: CHARLESTON

Designer: MIKE LEYH

Phone: 722-3901

Authorization: 09C21927N

Dwg. 1 of 1

## Daniell, Amy (Efdsouth)

---

**From:** Daniell, Amy (Efdsouth)  
**sent:** Friday, May 04, 2001 1:58 PM  
**o:** 'mehtam@columb34.dhec.state.sc.us'  
**Cc:** Humphrey, Matthew (Efdsouth); Hunt, Tony (Efdsouth)  
**Subject:** Bellsouth excavation near Bldg. 44 (along Hobson Ave.)

This e-mails purpose is to notify you that Bellsouth has changed their excavation along Hobson Ave. from what was submitted in their dig permit request dated 28 February 2001. The excavation that was submitted in their permit showed the excavation taking place outside the fence line, so this should not have affected SWMU 25. I have contacted Bellsouth that they are digging in an area of known contamination and to take the necessary precautions to minimize any dermal exposure to their workers. They also are to stop work and contact the CSO immediately if there is suspect soil or an unusual odor. Please contact our office at 743-9985 if you have any questions.



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

5090  
Ser CSO/008  
20 March 2001

Mr. Sean McDonell  
Charleston Naval Complex Redevelopment Authority  
1360 Truxton Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell:

**SUBJECT: BELLSOUTH REQUEST TO INSTALL CONDUIT ALONG  
McMILLAN/HOBSON AND BLDG. 8**

Your letter of 9 March 2001 forwarded a request from BellSouth to install telephone conduit under Hobson Avenue for our consideration and approval.

The Navy has identified that in this area a release of hazardous substances has occurred, and required actions have not yet been implemented. It is recommended that BellSouth personnel ensure necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

If you have any questions or comments, please contact Ms. Amy Daniell at 743-9985.

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew Humphrey".

M. W. HUMPHREY

Caretaker Site Officer

By the direction of the Commander

Enclosure: Digging Permit #008 with comments

## CHARLESTON CARETAKER SITE OFFICE EXCAVATION PERMIT

CSO Log Number = 008  
Request Date = 9 March 2001  
Comments Date = 20 March 2001  
Location = Along McMillan/Hobson & Bldg. 8

### Environmental Review Comments

This project proposes the following: (a) to install conduit

The Navy has identified that in this area a release of hazardous substances has occurred, and required actions have not yet been implemented. It is recommended that contractor personnel ensure necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during the project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste.

If excess soil is not able to be reused and needs to be disposed, please contact our office. Note that no soil can leave the site without prior environmental testing. Point of contact is Matt Humphrey, CSO Environmental, at (843) 743-9985.

**James C. Bryan**  
*Chairman*

**Lonnie Hamilton, III**  
*Vice Chairman*

**Ronnie M. Givens**  
*Secretary/Treasurer*

**James M. Deaton**  
*Assistant Secretary/Treasurer*



**Susan K. Dunn**

**James S. Minor, Jr.**

**Eugene R. Ott**

**Jack C. Sprott**  
*Executive Director*

March 9, 2001

Mr. Matthew W. Humphrey  
Charleston Caretaker Site Officer  
Southern Division, Naval Facilities Engineering Command  
P. O. Box 190010  
North Charleston, SC 29419-9010

**Subject: BELLSOUTH TELEPHONE CONDUIT INSTALLATION REQUEST:  
McMillan/Hobson & Bldg 8**

Dear Matt:

We are forwarding the subject request from BellSouth to install buried telephone conduit from the intersection of McMillan Avenue and Hobson Avenue approximately 440 LF to a new termination in front of Building 3. They are also requesting to place a new cabinet directly adjacent to their hut next to Building 8 and run conduit west to an existing manhole along the Building 8 driveway. An excavation permit request is included for this work.

Please review this information and provide us with your comments.

Sincerely,

Sean P. McDonell, P. E.  
Engineering Director

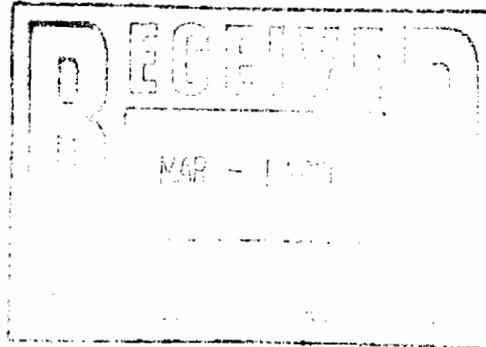
/enclosures

BellSouth Telecommunications, Inc.  
Room 322  
385 Meeting Street  
Charleston, South Carolina 29403

Job # 09C21368N

February 28, 2001

Ms. Jeri Johnson  
Operations Director  
Charleston Naval Complex  
Redevelopment Authority  
1360 Truxtun Avenue  
North Charleston, SC 29405



BellSouth Telecommunications requests permission to place the following buried conduit. Beginning at the intersection of McMillan Avenue and Hobson Avenue place conduit under Hobson Avenue then under the sidewalk on the east side of Hobson Avenue in a northerly direction for 444 feet. Also place a cross-connect cabinet and conduit for 84 feet in front of 1361 Truxtun Avenue (Bldg. 8) from existing manholes to the front of the existing BellSouth electronic hut.

See attached sketches for details.

If you have any questions, please contact Anne Dollason at 722-5168.

Yours truly,

Anne P. Dollason  
Loop Capacity Manager

Attachments

## Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

19C21358N

Location:

Hobson Avenue

Contract No:

*BELLSOUTH*

Date:

*2/28/01*

Has work been staked out?

Yes  No

Facility/Work Involved

Excavation

Pavements

Drainage Ditches

Railroad Tracks

Other

Overhead Lines

Utility

Communications

Underground Lines

Utility

Communications

Method of Excavation

Hand

Power Shovel

Ditcher

Auger

Other

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

Beginning at the intersection of McMillan Avenue and Hobson Avenue place conduit under Hobson Avenue and then under the sidewalk on the east side of Hobson in a northerly direction for 444 feet. Also, place a cross-connect cabinet and conduit for 70 feet in front of 1361 Truxton Avenue from existing manholes to the front of the existing BellSouth electronics Hut. See attached sketch for details.

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

Date Permit Required

*ASAP*

Termination Date of Permit

*10/1/01*

Signature (Requesting Official)

*Anne P. Johnson*

Date

*2-27-01*

Phone Number

*843-722-5168*

Clearance Review/Routing (CSO Use Only)

CSO Log In Number/Date

*008 / 15 March 2001*

Points of Contact	Environmental
	Remarks/Action      Signature and Date
Water	SouthDiv Code 02
Robin Harris - CPW      529-0653	SouthDiv Code 18
Sewer	CSO Environmental Compliance
Robert Judy - NCSD      764-3072	SWMU # _____ AOC # _____ Tank # _____
Electricity	BRAC Environmental Coordinator (BEC)
R. W. Smith - SCE&G      745-6013	Caretaker Site Office
Permit Approved? <input type="checkbox"/> YES <input type="checkbox"/> NO	

FACILITY OUTAGE REQUEST  
CNSYD-11300/23 (Rev. 2-81)

DATE

2/27/01

CNSYDINST 11300.7A

FROM

BellSouth Telecommunications - Anne Dollason

TO

Attn: Sean McDonnell

1. IT IS REQUESTED THAT ARRANGEMENTS BE MADE FOR OBTAINING AN OUTAGE ON THE BELOW FACILITY:

CRANE TRACKAGE

STREET/ROAD

RAILROAD TRACKAGE

OTHER

2. TIME AND DATE OF OUTAGE

FROM

TIME

DATE

TO

TIME

DATE

3. LOCATION AND TYPE OF WORK TO BE ACCOMPLISHED

SEE ATTACHMENT

4. WORK TO BE PERFORMED BY

5. CONTRACT/JOB CONTROL NUMBER

SIGNATURE

Anne P. Dollason

DATE

FROM

TO

1. OUTAGE REQUEST RETURNED

APPROVED

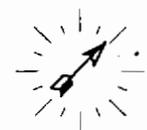
DISAPPROVED

2. REMARKS/REASON FOR DISAPPROVAL

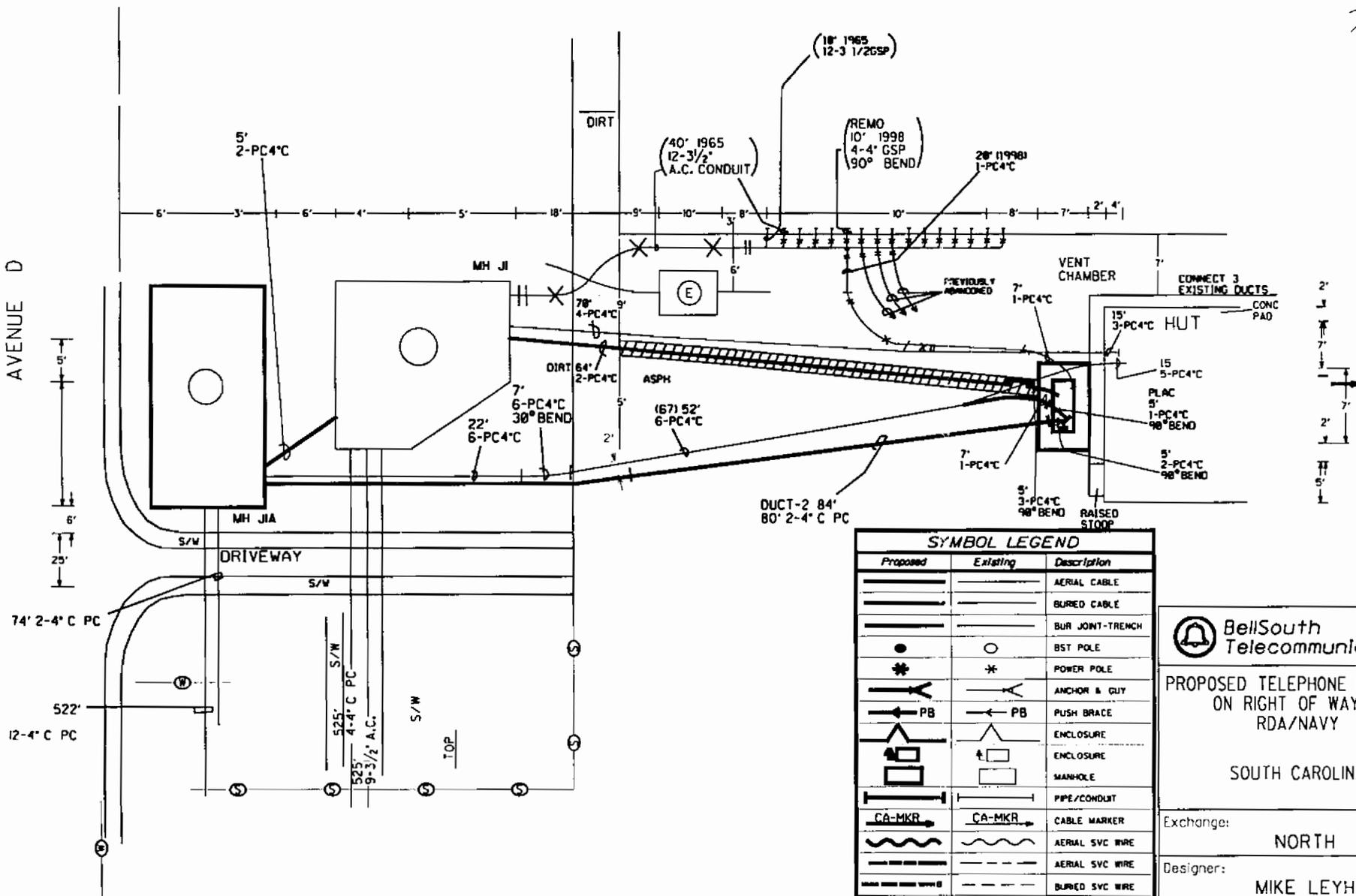
3. RESCHEDULED DATES/TIMES

SIGNATURE

OUTSIDE WALL BLDG 8



AVENUE D



**SYMBOL LEGEND**

Proposed	Existing	Description
		AERIAL CABLE
		BURIED CABLE
		BUR JOINT-TRENCH
		BST POLE
		POWER POLE
		ANCHOR & GUY
		PUSH BRACE
		ENCLOSURE
		ENCLOSURE
		MANHOLE
		PIPE/CONDUIT
		CABLE MARKER
		AERIAL SVC WIRE
		AERIAL SVC WIRE
		BURIED SVC WIRE
		BURIED SVC WIRE
		JOINT-TRENCH SVC
	N/A	BORE
	N/A	CUT PAVEMENT
	N/A	SPLICING PIT
	N/A	TRENCH LENGTH



PROPOSED TELEPHONE FACILITIES  
ON RIGHT OF WAY OF  
RDA/NAVY

SOUTH CAROLINA

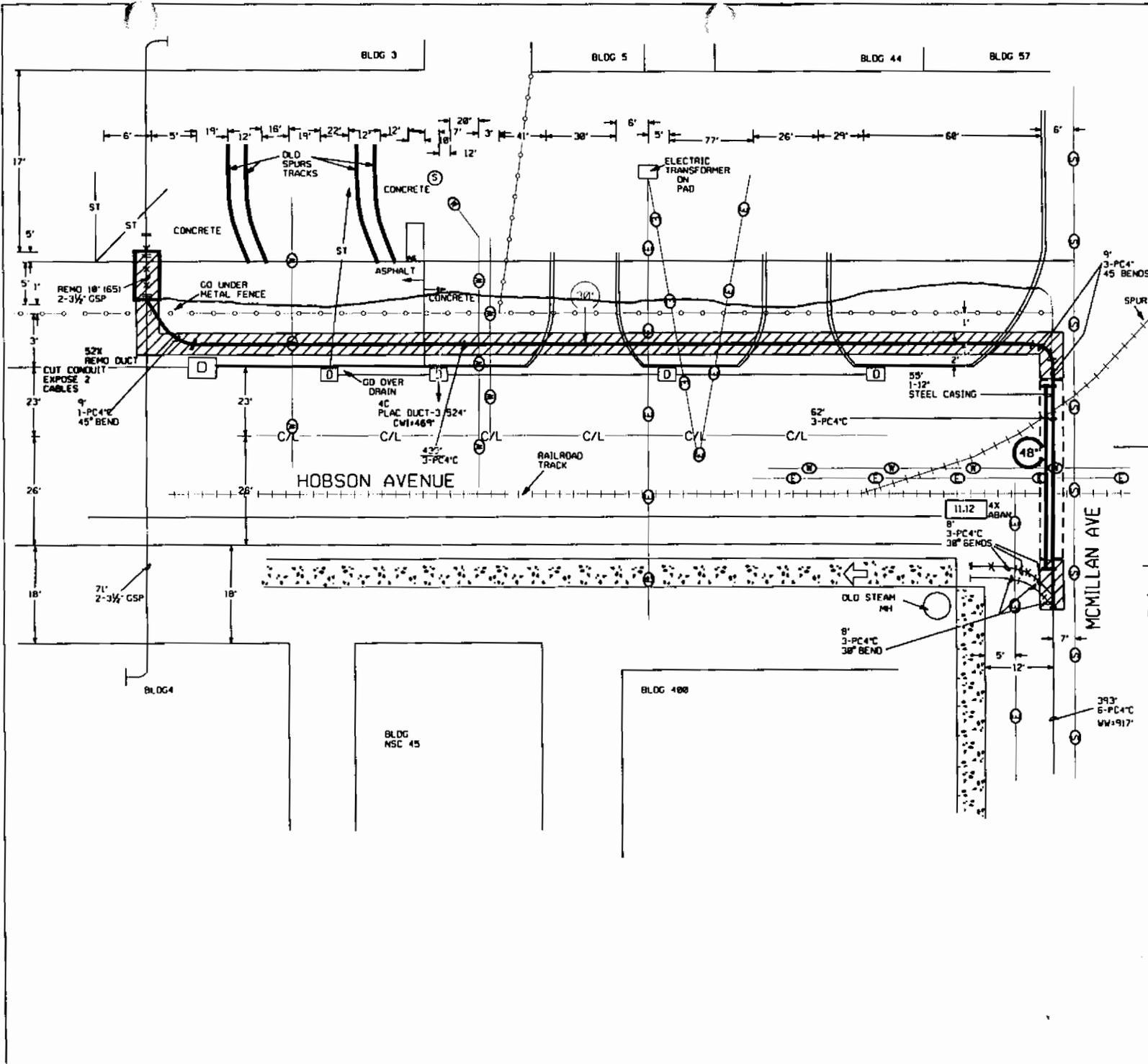
Exchange: NORTH

Designer: MIKE LEYH

Phone: 722-3901

Authorization: 09C21368N

Dwg. 1 of 2



SYMBOL LEGEND		
Proposed	Existing	Description
		AERIAL CABLE
		BURIED CABLE
		BUR JOINT-TRENCH
		BST POLE
		POWER POLE
		ANCHOR & CUT
		PUSH BRACE
		ENCLOSURE
		ENCLOSURE
		MANHOLE
		PIPE/CONDUIT
		CABLE MARKER
		AERIAL SVC WIRE
		AERIAL SVC WIRE
		BURIED SVC WIRE
		BURIED SVC WIRE
		JOINT-TRENCH SVC
	N/A	BORE
	N/A	CUT PAVEMENT
	N/A	SPlicing PIT
	N/A	TRENCH LENGTH

**BellSouth Telecommunications**

**PROPOSED TELEPHONE FACILITIES ON RIGHT OF WAY OF RDA/NAVY**

**SOUTH CAROLINA**

Exchange: **NORTH**

Designer: **MIKE LEYH**

Phone: **722-3901**

Authorization: **09C21368N**

Dwg. 2 of 2



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

5090

Ser CSO/016

21 February, 2001

Mr. Sean P. McDonell, P.E.  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr.; McDonell

**SUBJECT: CITY OF NORTH CHARLESTON REQUEST TO INSTALL A  
STORMWATER DRAINAGE LINE.**

This letter is in response to your letter dated February 14, 2001, which submitted a project to install approximately 158LF of 24" RCP from an existing catch basin located just outside the Naval Complex fence onto the Naval Base Complex along Ninth Street to stormwater manhole 37/10, for our consideration and approval.

The Navy has identified this to be an area where there has been a release of hazardous substance, but at concentrations that do not require removal or remedial actions. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the City of North Charleston ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

M. W. HUMPHREY

Caretaker Site Officer

By direction of the Commander

Enclosure: Digging Permit #005 with comments

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 005  
Request Date = 28 February 2001  
Comments Date = 21 February 2001  
Location = City of North Charleston

### Environmental Review Comments

This project proposes the installation of approximately 158LF of 24" RCP from an existing catch basin located just outside the Naval Complex fence on Orvid Street onto the Naval Base Complex along Ninth Street to stormwater manhole 37/10.

The Navy has identified this to be an area where there has been a release of e of hazardous substance, but at concentrations that do not require removal or remedial actions. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the City of North Charleston ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact Our office for disposal instructions.

. Note that no soil can leave the site without prior environmental testing. Point of contact is Matt Humphrey, CSO Environmental, at (843) 743-9985.

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

<b>Location:</b> vid Street, City of North Charleston	<b>Contract No:</b>	<b>Date:</b>
----------------------------------------------------------	---------------------	--------------

Has work been staked out? Yes  No

**Facility/Work Involved**

Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	Other Stormwater Drainage <input checked="" type="checkbox"/>
<u>Overhead Lines</u>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<u>Underground Lines</u>	Utility <input checked="" type="checkbox"/>
Hand <input type="checkbox"/>	Power Shovel <input type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>	Other Rubber-Tire Back-hoe <input type="checkbox"/>

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

Project involves the installation of approximately 158 linear feet of 24" RCP, construction of two (2) Catch Basins, one (1) Junction Box, and necessary lateral piping. The new network will tie-in to an existing 36" trunk line within the Naval Complex. The maximum depth of the 24" RCP is 8 ft. A drawing of the proposed installation is attached for reference.

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required</b> February 28, 2001	<b>Termination Date of Permit</b> December 31, 2001
<b>Signature (Requesting Official)</b> <i>Michael Dalrymple</i>	<b>Date</b> 2-12-01 <b>Phone Number</b> 843-745-1026

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date  
*005*

Points of Contact		Environmental
		Remarks/Action Signature and Date
Water		SouthDiv Code 02
Robert Sagaser - CPW	529-0653	SouthDiv Code 18
Sewer		CSO Environmental Compliance <i>see COMMENTS</i> SWMU # _____ AOC # _____ Tank # _____
Robert Judy - NCSO	764-3072	<i>Matthew Hahn</i> 2/27/01
Electricity		BRAC Environmental Coordinator (BEC)
R. W. Smith - SCE&G	745-8381	
		Caretaker Site Office Permit Approved? <input type="checkbox"/> YES <input type="checkbox"/> NO
		CSO Utility Manager (Signature and Date)



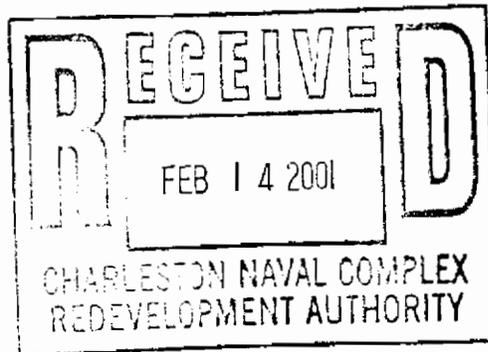
**DAVIS** Engineering  
**FLOYD** Architecture  
Environmental & Laboratory Services

050 1007 #  
005

PO. Box 61599 Charleston, SC 29419 • 3229 West Montague Avenue Charleston, SC 29418 • (843) 554-8602 (office) (843) 747-6485 (fax)

February 12, 2001

Mr. Sean McDonell, P.E.  
Facilities Manager  
Charleston Naval Complex  
Redevelopment Authority  
1690 Turnbull Avenue, Suite NH-47  
Charleston, SC 29405-1955



**RE: City of North Charleston  
FY 1999-2000 Drainage Improvements  
Excavation Permit Application  
JOB NO. 30564.00**

Dear Mr. McDonell:

Enclosed, for your review and approval, is the Charleston Caretaker Office Excavation Permit for the above referenced project. To alleviate frequent stormwater flooding, the City of North Charleston proposes to construct a stormwater drainage line from Orvid Street to an existing 36" trunk line within the Naval Complex. An 11"x17" Drawing of the new drainage line is attached for your reference. In addition, a location map of the project is attached.

Please be advised that the City of North Charleston will receive and open bids for this and other Community Development Block Grant projects on Wednesday, February 28th, 2001. Construction of the Orvid Street Drainage Improvements may commence shortly thereafter. Your prompt review of this application is greatly appreciated.

Please call should you have any questions or need additional information.

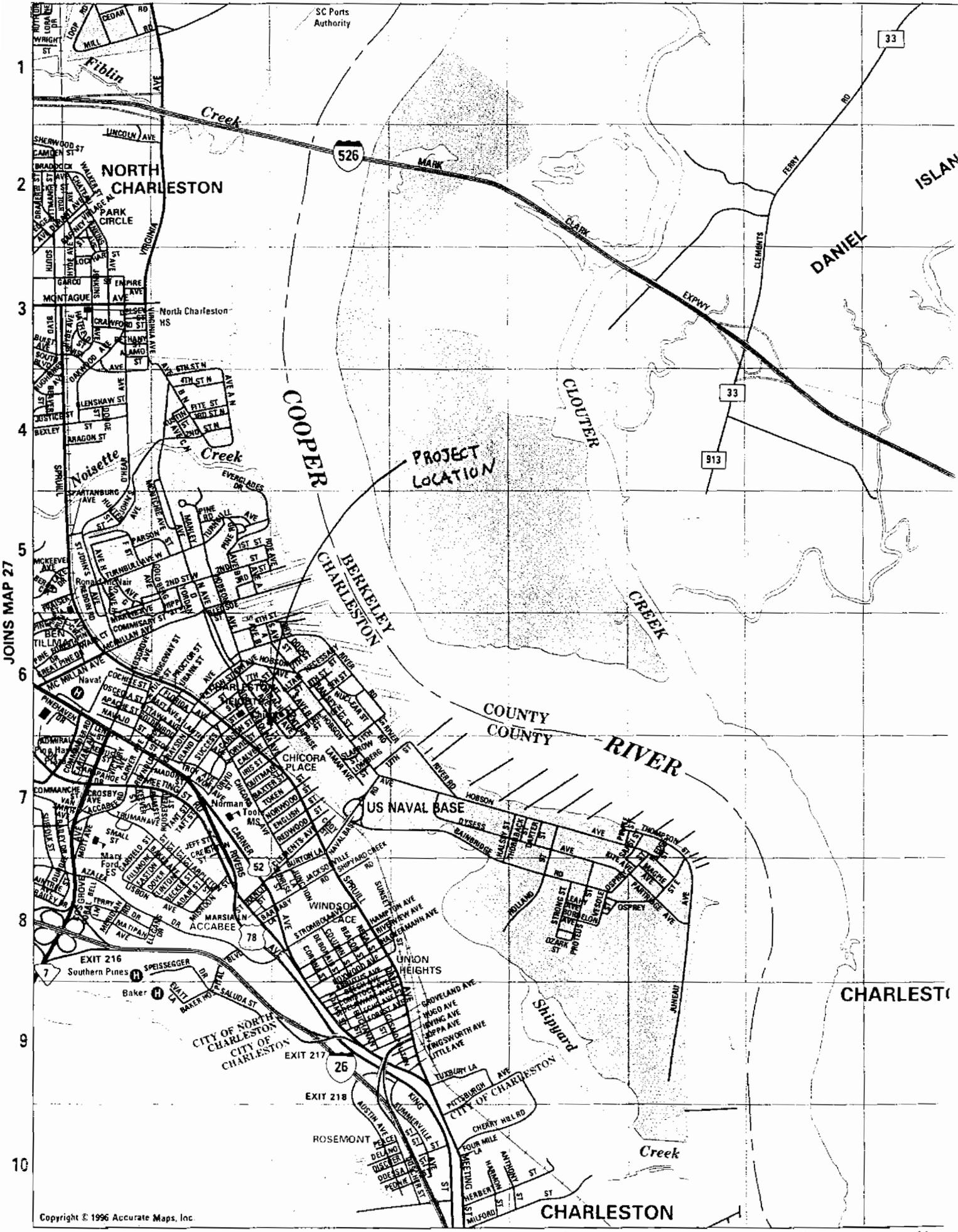
Sincerely,

DAVIS & FLOYD, INC.

Kevin P. Munson

xc: Michael D. Dalrymple, P.E., City of North Charleston  
Michael V. Horton, P.E., Davis & Floyd, Inc.

Enclosures



JOINS MAP 27



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P.O. BOX 180010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-0010

5090  
Ser CSO/015  
15 February, 2001

Mr. Gary Crawford.  
US Border Patrol Academy  
2000 Bainbridge Avenue  
North Charleston, SC 29405

Dear Mr. Crawford

**SUBJECT: US BORDER PATROL ACADEMY REQUEST TO INSTALL A CROWD CONTROL TRAINING AREA.**

This letter is in response to your letter dated February 07, 2001, which submitted a project to install a crowd control area located near the northeast corner of Bainbridge and Holland Streets, for our consideration and approval.

The Navy has identified this to be an area where there has been a release of hazardous substance, and removal or remedial actions are underway but all required remedial actions have not yet taken place. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

A handwritten signature in black ink, appearing to read "M. W. Humphrey".

M. W. HUMPHREY  
Caretaker Site Officer  
By direction of the Commander

Enclosure: Digging Permit #004 with comments

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 003  
Request Date = 07 February 2001  
Comments Date = 15 February 2001  
Location = US Border Patrol

### Environmental Review Comments

This project proposes the installation of a Crowd Control Training Area, located near the northeast corner of Bainbridge and Holland Streets, at the US Border Patrol.

The Navy has identified this to be an area where release of hazardous substance, and removal or remedial actions are underway but all required remedial actions have not yet taken place. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact Our office for disposal instructions.

Note that no soil can leave the site without prior environmental testing. Point of contact is Matt Humphrey, CSO Environmental, at (843) 743-9985.

# Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date: \_\_\_\_\_ Sign

Clearance is requested to proceed with work as follows:

Location: <u>20WD CONTROL TRAINING AREA</u>	Contract No: <u>CME-056</u>	Date: <u>2/7/01</u>
---------------------------------------------	-----------------------------	---------------------

Has work been staked out?  Yes  No

<b>Facility/Work Involved</b>					
Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	Other <u>SLAB FOUNDATION &amp; FLAG POLE</u>	
<b>Overhead Lines</b>		Utility <input type="checkbox"/>	<b>Underground Lines</b>		Communications <input type="checkbox"/>
Hand <input type="checkbox"/>		<b>Method of Excavation</b>		Utility <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
Power Shovel <input checked="" type="checkbox"/>		Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>		

Scope of Work (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

- ① SEE ATTACHED STATEMENT OF WORK / MAP
- ② CABLE / UTILITIES LOCATION SERVICE HAS BEEN CONTACTED AS OF 2/7/01

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

Date Permit Required: <u>MARCH 2001</u>	Termination Date of Permit: <u>JUNE 2001</u>
Signature (Requesting Official):	Date: <u>2/7/01</u>
Phone Number: <u>743-8858 EXT 152</u>	

**Clearance Review/Routing (CSO Use Only)** CSO Log In Number/Date: 004

Points of Contact		Environmental	
		Remarks/Action	Signature and Date
Water		SouthDiv Code 02	
Robin Harris - CPW	529-0653	SouthDiv Code 18	
Sewer		CSO Environmental Compliance	 <u>2/20/01</u>
Robert Judy - NCSD	764-3072	SWMU # <u>9</u> AOC # _____ Tank # _____	
Electricity		BRAC Environmental Coordinator (BEC)	
R. W. Smith - SCE&G	<u>6381</u> 745-6013	Caretaker Site Office	
		Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
		<u>NA</u>	(Signature and Date)
		CSO Utility Manager	

**Statement of Work  
Crowd Control Training Area  
United State Border Patrol, Charleston, South Carolina**

**February 5, 2001**

The contractor shall provide materials, supplies, equipment, and personnel to perform the work specified in this contract. A site visit is required to evaluate overall conditions prior to submitting a bid package. The contractor shall make a site visit with contracting officer or his/her designated representative to determine the exact location of the project and materials and equipment needed to properly perform and complete the work.

**1. Description of Existing Conditions:**

- a. The United States Border Patrol plans to build an instructional area to be located near the Northeast corner of Bainbridge and Holland Streets. It shall consist of a concrete slab, bleachers, and an aluminum cover. Number 57 stone shall be applied to the surrounding area encompassing approximately 300' x 400'. An orange 13" diameter X 55" long wind sock atop a 10' metal pole shall be installed at a location to be determined during site visit.

**2. General Notes:**

- a. Contact the Border Patrol Academy Headquarters at (803) 743-8858 ext. 166 prior to start of project to schedule a pre-construction meeting. Contractor shall coordinate all work with the Border Patrol point of contact.
- b. The contractor, at no cost to the government, shall repair damages caused by the contractor to any government property as directed by the contracting officer or his/her designated representative.
- c. The contractor shall comply with all federal, state, and local safety and environmental guidelines pertaining to the specific work being performed.
- d. All contractor employees conducting site preparation and work on this project shall comply with Occupational Safety and Health Administration (OSHA) guidelines.

**Statement of Work  
Crowd Control Training Area  
United State Border Patrol, Charleston, South Carolina**

**3. Quality Assurance:**

- a. All work specified in this document shall conform to Building Officials & Code Administration (BOCA) and Southern Building Code Congress International guide lines.
- b. All work required by this contract shall be accomplished to the satisfaction of the contracting officer or his/her designated representative.
- c. Contractor shall provide one year warranty on labor and materials.

**4. Submittal:**

- a. Submit manufacturers' technical product data and catalog cuts of the following materials and accessories:
  - 1) Aluminum bleachers
  - 2) Concrete anchors
  - 3) Safety fence and guard rails
  - 4) Aluminum bleacher cover, and accessories
  - 5) Gutters and downspouts
  - 6) Metal pole, wind sock, and free swivel bracket
- b. Bidders may be required to submit references of previously completed projects of similar nature and to provide credit references.

**5. Delivery and Storage:**

- a. Storage and handling of materials and accessories shall conform to manufacturer's recommendation to prevent damage. Contractor shall not install damaged materials or components; replace with new.
- b. Delivery and storage of equipment and materials to be coordinated with Border Patrol point of contact.

**Statement of Work  
Crowd Control Training Area  
United State Border Patrol, Charleston, South Carolina**

**6. Description of Work:**

*6.1 General Material Requirements:*

- a. The materials provided and installed by the contractor shall be:
- 1) 4000 PSI concrete, 28-day compression strength, between 2 to 4 inches slump in accordance with ASTM C 143.
  - 2) Welded wire fabric concrete re-enforcement
  - 3) Crushed stone underlay
  - 4) Bleachers shall be National Recreation System, model N-0515A or equal.
  - 5) Guardrails shall be anodized aluminum with end plugs and elbows where required. All rails shall be secured to angle supports with galvanized fasteners. Rear and side rails shall be 42" above nearest seat, and side rails shall extend down to the 3<sup>rd</sup> row.
  - 6) Chain link safety fence shall be 9 gauge, 2" mesh, with additional pipe at bottom to close triangular opening to less than 4" between seat, foot and risers.
  - 7) Stand off posts and accessories
  - 8) Gutters and downspouts
  - 9) Stone, #57 to cover area specified above
  - 10) 3"X12' metal pole
  - 11) 13" diameter X 55" long, orange wind sock, with free swivel metal bracket. Wind sock material shall be of nylon construction with double sewn seams and brass grommets. Sock material shall be resistant to tears and fraying.

*6.2 Concrete Slab:*

- a. Preparation shall consist of excavating an area approximately 20' X 22 ½'. Footing shall be 8" deep X 12" wide. Exposed dirt shall be compacted, crushed stone underlayment applied and compacted.
- b. Footings for cover supports shall be excavated, formed and spaced as per specifications on attached architectural drawings. Stand off base posts shall be set in place prior to pouring concrete.
- c. The contractor shall provide and install form work, complete with braces, stakes, supports, and other devices to properly install the form work. Set forms true to line and grade. The contractor shall apply form release to surface areas receiving concrete.

**Statement of Work  
Crowd Control Training Area  
United State Border Patrol, Charleston, South Carolina**

- d. Contractor shall place concrete complete with 6X6/10X10 welded wire fabric. Welded wire fabric shall be install 2" above base course. Installation of welded wire fabric shall be in accordance with ASTM A185 or A497.
- e. Concrete shall be 20'X 22 ½' X4" thick, 4,000 PSI and shall have a 28-day compression strength. Slump shall be between 2 to 4 inches in accordance with ASTM C 143. Concrete shall be vibrated to remove all voids and air pockets that exist in the concrete. Concrete shall have a broom finish and edges chamfered. Moister barrier shall be applied prior to pouring of concrete. Concrete slab shall be no less then 4" above existing grade.

**6.3 Bleacher Specifications:**

- a. Bleachers shall be National Recreation System, model N-515A or equal. Assembly to be non-elevated and consist of 5 rows, 15" in length. Bleachers shall have double footing, and risers on all steps, constructed of aluminum and permanently fastened to concrete foundation.
- b. Completed structure shall face south west
- c. See attachment (A), architectural drawings, for detailed specifications

**6.4 Bleacher Cover Specifications:**

- a. Fabricate a bleacher cover to be attached to risers set in concrete. The cover shall be an open air structure to cover the entire concrete foundation and shall be constructed of non-corrosive low maintenance materials. Bleacher cover shall comply with all applicable codes and be able to withstand hurricane force winds.
- b. Refer to attached architectural drawings, attachment (A) for guidance on specifications and installation of aluminum cover, gutters and downspout.

**6.5 Application of Crushed Stone:**

- a. Weed killer shall be applied to area prior to application of crushed stone.
- b. Two (2) inches of 57 stone, crushed, shall be applied uniformly to area outlined by markers.

**Statement of Work  
Crowd Control Training Area  
United State Border Patrol, Charleston, South Carolina**

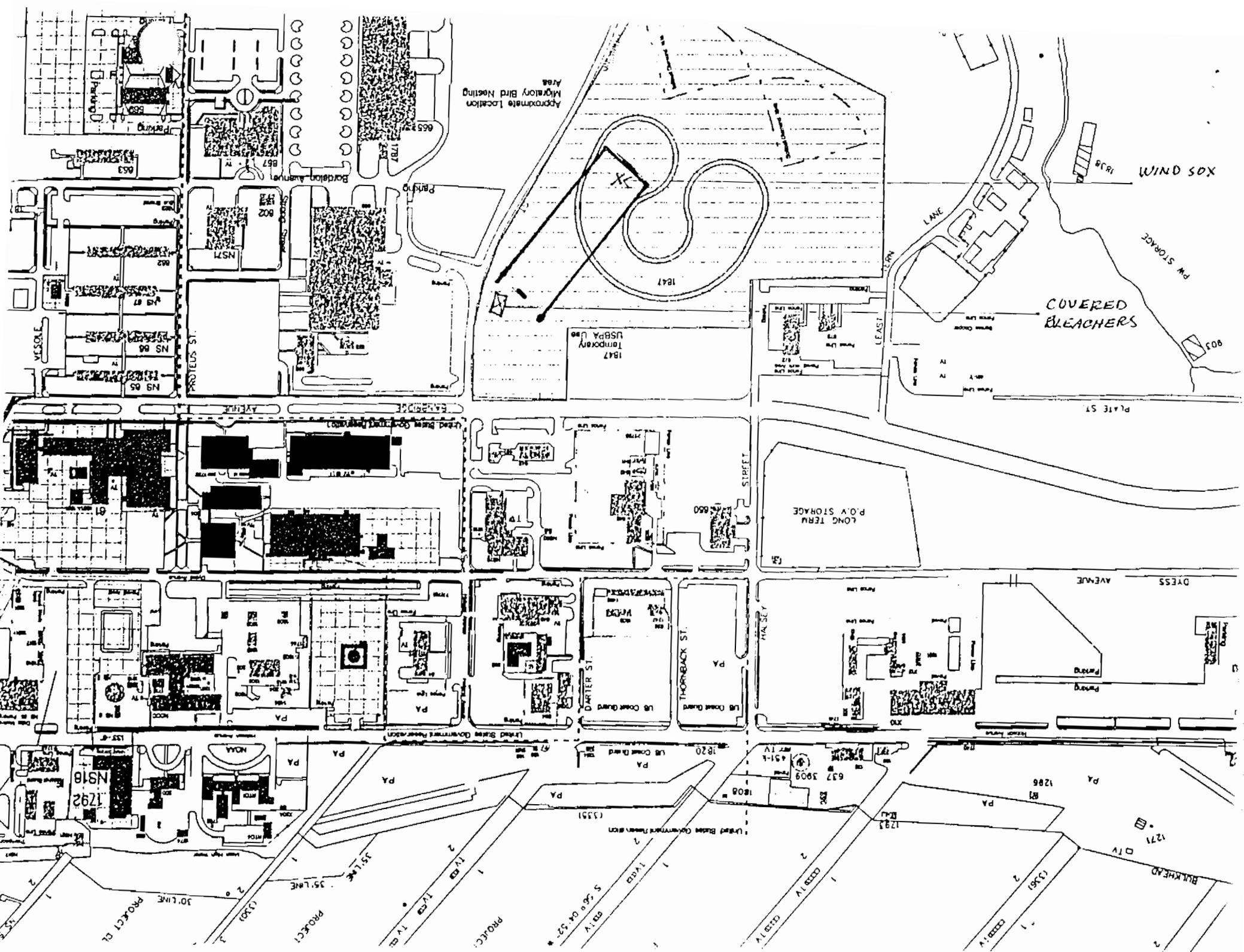
6.6 *Wind Sock Installation:*

- a. The metal pole shall be set in concrete no less than 2' deep at a location visible from bleachers. (Location to be determined during site visit) The wind sock shall be attached to top of metal pole using a free swivel bracket.

7. **Contract Conditions:**

- a. The contractor shall use labor that is skilled, qualified, and licensed as required for each discipline in the installation of materials used to complete work.
- b. The contractor shall comply with all federal, state and local codes, regulations and ordinances pertaining to the specific work being performed.
- c. The contractor shall maintain the area in a clean and orderly manner during all work and shall at the completion of each day's work, clean up, remove, and dispose of all debris as a result of the day's operation. Debris shall be removed to location off site.
- d. The contractor, shall consult with Contracting Officer at each stage of construction and at the completion of work, to certify that all work is accomplished in accordance with established commercial practices and codes specified above.
- e. The contractor, at the completion of the work, shall arrange with the Government Contract Officer or his/her designated representative for visual inspection of work specified in this project prior to acceptance by the Government.
- f. All work shall be warranted for one year after acceptance by the Government, in addition to any standard commercial and manufacturers' warranties that apply to materials.

**NOTICE: "Each employee of the Contractor shall be a citizen of the United States of America, or an alien who has been lawfully admitted for permanent residence as evidenced by Alien Registration Card Form I-551, or, who presents other evidence from the Immigration and Naturalization Service that employment will not affect his status".**



Approximate Location  
Migratory Bird Nesting  
Area

WIND SOX

COVERED  
BLEACHERS

LONG TERM  
P.O.V STORAGE

1947  
Temporary  
USBA USA

NS 16  
1792

637 3009  
431-4

PROJECT 1  
30' LINE

PROJECT 1  
35' LINE



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P.O. BOX 190010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-9010

5090  
Ser CSO/013  
09 FEBRUARY 2001

Mr. Sean P. McDonell, P.E.  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr.: McDonnell

**SUBJECT: S.C.E.&G. REQUEST TO INSTALL UNDERGROUND ELECTRICAL DISTRIBUTION LINES TO QUARTERS WEST.**

This letter is in response to your letter dated February 02, 2000 which submitted a project to install underground electrical distribution lines to quarters located between Turnbull Avenue to south of Marine Avenue and Commissary Street, for our consideration and approval.

The Navy has identified this to be an area where there has been a release of hazardous substance has occurred, and removal or remedial actions are underway but all required remedial actions have not yet taken place. Therefore digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that SCE&G ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or unusual order, work shall be stopped immediately and the Caretaker Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

A handwritten signature in black ink that reads "Matthew Humphrey".

M. W. HUMPHREY  
Caretaker Site Officer  
By direction of the Commander

Enclosure: Digging Permit #003 with comments

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 003  
Request Date = 02 February 2001  
Comments Date = 09 February 2001  
Location = Housing Quarters Area

### Environmental Review Comments

This project proposes the installation of underground electrical distribution lines to quarters located between Turnbull Avenue to south of Marine Avenue and Commissary Street.

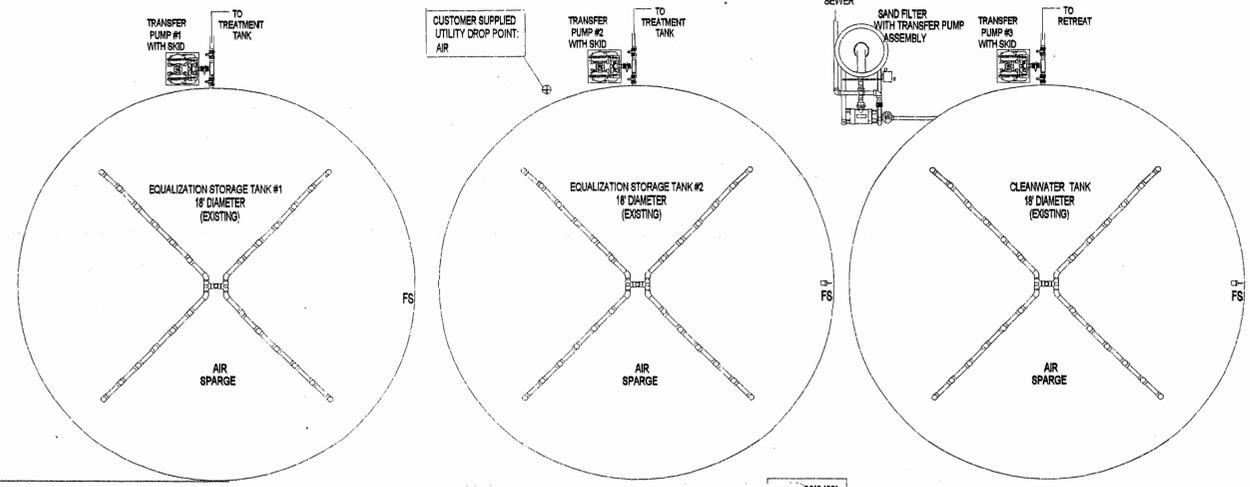
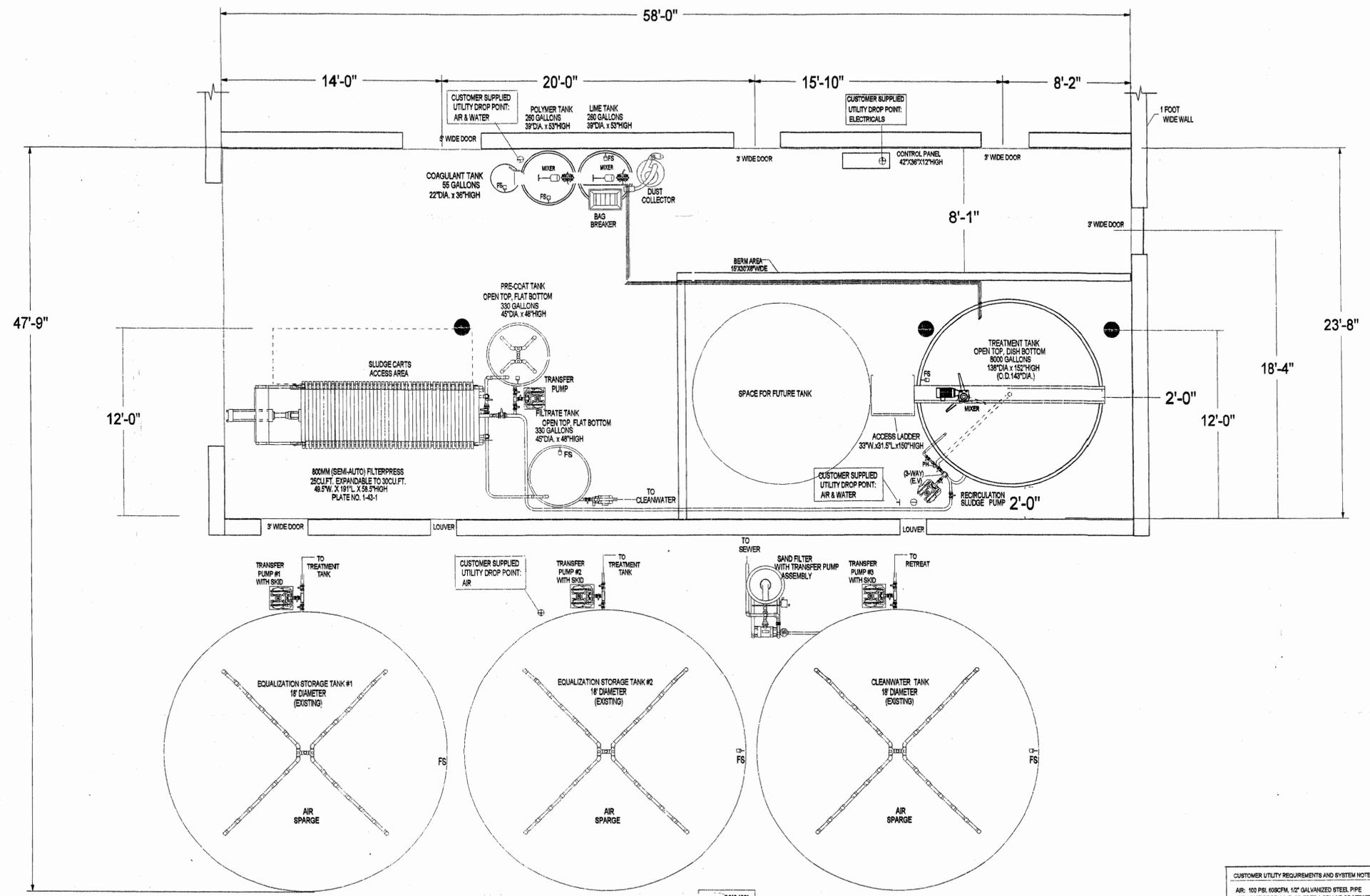
The Navy has identified this to be an area where release of hazardous substance has occurred, and removal or remedial actions are underway but all required remedial actions have not yet taken place. Therefore digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that SCE&G ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact our office for disposal instructions.

Note that no soil can leave the site without prior environmental testing. Point of contact is Matt Humphrey, CSO Environmental, at (843) 743-9985.



NO.	REVISION	BY	APP.	DATE
1	REVISED LAYOUT TO MATCH CUSTOMER'S SPACE REQUIREMENTS	ER	KF	1/22/01
2	REVISED LAYOUT TO MATCH CUSTOMER'S SPACE REQUIREMENTS	ER	KF	5/04/01
3	MOVED SAND FILTER AND ADDED A FILTRATE PUMP TO TANK AS DIRECTED	ER	KF	5/17/01



**NOTE:**  
EQUALIZATION STORAGE TANKS  
AND CLEAN WATER TANK NOT  
DRAWN TO SCALE-SEE DRAWING 8

**CUSTOMER UTILITY REQUIREMENTS AND SYSTEM NOTES:**  
 AIR: 100 PSL 60SCFM, 12" GALVANIZED STEEL PIPE (AIR MUST BE DRY AND OIL FREE & DRY AIR PROTECTED TO 40 DEGREES F.) (PRESSURE DEVIPOINT LEVEL AT THE POINT OF USE).  
 WATER: 3M<sup>3</sup> HPT FRESH WATER  
 ELECTRICAL: 30AMP, 480VAC, 3PH, 60HZ  
 30AMP, 115VAC, 1PH, 60HZ  
 W/NEUTRAL AND GROUND WIRE.  
 1. Largest tank dimension is 143" O.D. (includes tank lip) x 152" High. Please verify access into plant.  
 2. Minimum clearance of ceiling height must be 2' above tallest piece of equipment, when set in place.  
 3. Sewer connection must be located less than 20 feet from Beckart treatment system. If more than 20 feet away it needs to be noted.  
 4. (WHEN IN USE) Sulfuric Acid not to exceed 50% concentrate. Pvc piping cannot withstand over 50% concentrate of sulfuric acid.

**BECKART ENVIRONMENTAL, INC.**  
 6900 4th STREET KENOSHA, WISCONSIN 53144  
 (262) 656-7660 FAX: (262) 656-7699

**DRAWING 9**  
**PLAN VIEW - BECKART**  
**TREATMENT SYSTEM**  
 SANI-TECH ENVIRONMENTAL, INC.  
 CHARLESTON, SC

Drawn by: ELEANOR R.      Proj. Coord. KRISTEN FUDE  
 Checked by: *Michelle*      Date: 5/17/01

Scale: 1/4"=1'      Dimension Format: Feet & Inches      Page: 1 of 1  
 Date: 1/22/2001      Dwg Type: Equipment Layout      Dwg No: 00053-30      Doc No: 023

MAY 17 2001

# Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

Location: <i>Turnbull Ave</i>	Contract No: <i>S.C.E &amp; G</i>	Date: <i>1-19-01</i>
----------------------------------	--------------------------------------	-------------------------

Has work been staked out?      Yes      No

<u>Facility/Work Involved</u>			
Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>
<u>Overhead Lines</u>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<u>Underground Lines</u>
Hand <input type="checkbox"/>	Power Shovel <input checked="" type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>
<u>Method of Excavation</u>		Utility <input checked="" type="checkbox"/>	Communications <input type="checkbox"/>
Other _____		Other _____	

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

*See sketch*

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

Date Permit Required <i>1-24-01</i>	Termination Date of Permit <i>4-30-01</i>
Signature (Requesting Official) <i>Richard R. Smith</i>	Date <i>1-19-01</i>
Phone Number <i>745-6381</i>	

### Clearance Review/Routing (CSO Use Only)

CSO Log In Number/Date

*196 / 01/23/01*      001

Points of Contact		Environmental	
		Remarks/Action	Signature and Date
Water		South Div Code 02	
Robin Harris - CPW	529-0653	South Div Code 18	
Sewer		CSO Environmental Compliance	<i>Walter H. Phleg</i>
Robert Judy - NCSD	784-3072	<i>swan 47</i>	<i>1/23/01</i>
City		BRAC Environmental Coordinator (BEC)	
R. W. Smith - SCE&G	<i>745-6382</i> <del>745-6818</del>	Caretaker Site Office Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
		<i>N/A</i>	

**Humphrey, Matthew (Efdsouth)**

---

**From:** Humphrey, Matthew (Efdsouth)  
**Sent:** Tuesday, February 06, 2001 11:03 AM  
**To:** 'Mihir Mehta (DHEC)'  
**CC:** Hunt, Tony (Efdsouth)  
**Subject:** NOTIFICATION OF SCE&G REQUEST TO INSTALL UNDERGROUND ELECTRICAL DISTRIBUTION

This email's purpose is to provide you with notification that SCE&G will be digging in and around SWMU 47 in efforts to install an underground distribution from Ave 'D' at Turnbull Ave, and down Turnbull Ave along the north side of building 64 to the transformer across from Ave 'F'. If you have questions or concerns about this dig you may contact Matt Humphrey at 743-9985.

*Mehtam@colomb34.dhec.state.sc.us*



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P.O. BOX 190010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-9010

5090  
Ser CSO/08  
23 January 2001

Ms. Jeri Johnson  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Ms. Johnson:

**SUBJECT: S.C.E & G REQUEST TO INSTALL UNDERGROUND ELECTRICAL DISTRIBUTION.**

This letter is in response to South Carolina Electric and Gas request dated January 19, 2001 which submitted a project to install underground electrical distribution from Ave "D" at Turnbull Ave, and down Turnbull Ave along the north side of building 64 to the transformer across from Ave "F" for our consideration and approval.

The Navy has identified this to be an area where there has been a release of hazardous substance in the past. Digging in this area is not prohibited, but caution should be exercised. It is recommended that S.C.E&G ensure that the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

A handwritten signature in black ink, appearing to read "M. W. Humphrey".

M. W. HUMPHREY  
Caretaker Site Officer  
By direction of the Commander

Enclosure: Digging Permit #196 with comments

**Charleston Caretaker Site Office Excavation Permit**

Requester: Fill Out Upper Half, Date & Sign

**Clearance is requested to proceed with work as follows:**

**Location:** THE END OF NAVAL COMPLEX      **Contract No:** BTI - LEASE/LEASEMENT 17 JAN 01      **Date:** \_\_\_\_\_

work been staked out?      Yes      No

Facility/Work Involved

Excavation       Pavements       Drainage Ditches       Railroad Tracks       Other \_\_\_\_\_  
Overhead Lines      Utility       Communications       Underground Lines      Utility       Communications

Method of Excavation

Hand       Power Shovel       Ditcher       Auger       Other  DIRECTIONAL BORING

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

SEE ATTACH BTI ITR DATED 1/15/01 AND DRAWING FOR CABLE ROUTE.

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

**Date Permit Required** ASAP      **Termination Date of Permit** 7/1/01  
**Signature (Requesting Official)** [Signature]      **Date** 17 JAN 01      **Phone Number** 747-0010

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date

**002**

Points of Contact		Environmental	
		Remarks/Action	Signature and Date
Water		SouthDiv Code 02	
Robert Sagaser - CPW	529-0653	SouthDiv Code 18	
Sewer		CSO Environmental Compliance	<u>[Signature]</u>
Robert Judy - NCSD	764-3072	SWMU # <u>9</u> AOC # _____ Tank # _____	<u>2/8/01</u>
Electricity		BRAC Environmental Coordinator (BEC)	
R. W. Smith - SCE&G	745-6381	Caretaker Site Office	
		Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
		<u>N/A</u>	<u>[Signature]</u>
		CSO Utility Manager	(Signature and Date)



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

11000  
Ser CSO/002  
08 February 2001

Mr. Sean McDonell  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell:

**SUBJECT: BTI REQUEST TO INSTALL TELECOMMUNICATIONS CABLE -  
SOUTH END OF THE NAVAL COMPLEX**

This letter is in response to your letter dated 17 January 2001 which submitted a project to install cable on Bainbridge Ave. from Holland Street to Thompson Ave. and will eventually cross the Cooper River to Daniel Island.

The Navy has identified areas where there have been releases of hazardous substances or petroleum products in the past. Digging in these areas is not prohibited, but caution should be exercised. The contractor is recommended to take any precautions they feel necessary, but at a minimum, efforts should be made to avoid dermal exposure for any workers who may come in contact with the soil. If workers notice the soil to have a suspicious odor or appearance, discontinue work and contact the CSO office.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed, please contact our office for disposal instructions.

You may address any further comments regarding this proposed work to me at 743-9985.

Sincerely,

A handwritten signature in cursive script, appearing to read "M. W. Humphrey".

M. W. HUMPHREY  
Caretaker Site Officer  
By direction of the Commander

Enclosure: Digging Permit #002 with comments

**Humphrey, Matthew (Efdsouth)**

---

**To:** 'Mihir Mehta (DHEC)'  
**Cc:** Hunt, Tony (Efdsouth)  
**Subject:** RE: NOTIFICATION OF DIG REQUEST APPROVAL

BY THE WAY, THIS LINE IS ACTUALLY BEING INSTALLED WITHOUT DIGGING. IT IS BASICALLY BEING PULLED THROUGH THE GROUND FROM THE SURFACE. HOPE THIS HELPS, MATT

-----Original Message-----

**From:** Humphrey, Matthew (Efdsouth)  
**Sent:** Wednesday, February 07, 2001 2:02 PM  
**To:** 'Mihir Mehta (DHEC)'  
**Cc:** Hunt, Tony (Efdsouth)  
**Subject:** NOTIFICATION OF DIG REQUEST APPROVAL

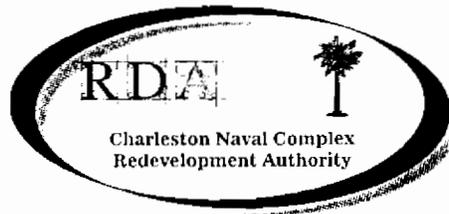
Mihir, I am getting ready to approve a dig request for installation of a telecommunications cable through the south end of the Naval Complex. If you recall, last August a water line was installed in the same location on the north side of Bainbridge from Holland Street all the way east to Thompson Avenue. Well this request is to cable from this same location over to Daniel Island. We realize that this dig will be in and around the old Landfill area, and plan on warning the contractor about this in our notification to him. When the water line was installed last year they did not run into any unforeseen problems with contaminated soil, therefore we don't anticipate any problems on this job. If you have any additional concerns please contact me at 743-9985. thanks, matt

James C. Bryan  
*Chairman*

Lonnie Hamilton, III  
*Vice Chairman*

Ronnie M. Givens  
*Secretary/Treasurer*

James M. Deaton  
*Assistant Secretary/Treasurer*



Susan K. Dunn

James S. Minor, Jr.

Eugene R. Ott

Jack C. Spratt  
*Executive Director*

January 17, 2001

Mr. Matthew W. Humphrey  
Charleston Caretaker Site Officer  
Southern Division, Naval Facilities Engineering Command  
P. O. Box 190010  
North Charleston, SC 29419-9010

Subject: **BTI REQUEST TO INSTALL TELECOMMUNICATIONS CABLE  
THROUGH THE SOUTH END OF THE NAVAL COMPLEX**

Dear Matt:

We are forwarding a request from BTI to install telecommunications cable through the south end of the complex. As you will note in the attached drawing, the cable will be installed using directional boring and will enter Navy property just north of the Viaduct Road bridge behind the fuel farm, continue along the north side of Bainbridge Avenue until Holland Street where it will cross over to the south side of Bainbridge and continue along Bainbridge, Barracks and Partridge until it leaves the complex off of Thompson Avenue just north of the Partridge intersection and cross under the Cooper River to Daniel Island. We have included a digging permit application for this work.

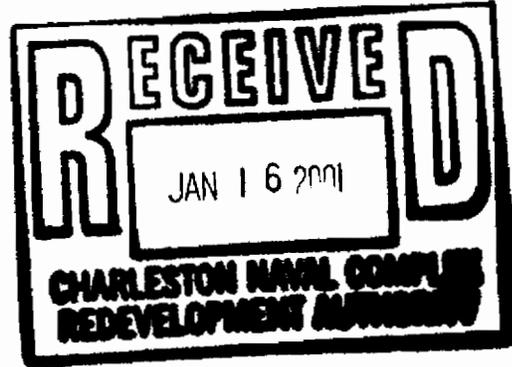
We are currently working with Southern Division's Real Estate Division to obtain the appropriate license and eventual easement to issue to BTI, but this request is simply for the construction and digging permit approval that we normally seek through your office.

Please review this information and provide us with your comments.

Sincerely,

Sean P. McDonell, P. E.  
Engineering Director

/enclosures



4300 Six Forks Road  
PO Box 150002  
Raleigh, NC 27624  
(919) 863-7000  
(800) 849-9100  
(919) 863-7319 Fax  
[www.btitelecom.net](http://www.btitelecom.net)

January 15, 2001

Mr. Sean McDonell  
Engineering Director  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Ave., Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell:

Attached are the revised drawings that depicts the new cable alignment that was discussed in our meeting December 21, 2000 between BTi and the RDA. Ms. Jeri Johnson recently e-mailed me a message indicating that the new drawings should be sent to you since you were responsible for coordinating such requests with the Navy.

I would appreciate your promptly submitting this request to the Navy since it is the last missing link in our fiber optic cable route. We are anxious to complete the project since it is behind schedule and we have crews standing by in the area ready to complete the work.

If you have any questions or need to discuss this matter, please contact me at 919-863-7305 or e-mail to [thomas.smithjr@btitele.com](mailto:thomas.smithjr@btitele.com).

Sincerely,

Thomas H. Smith, Jr.  
Director - Network Facilities

Cc: Ms. Jeri Johnson  
Mr. Robert Ryan  
Mr. Jack C. Sprott  
Mr. Jonathan Yates

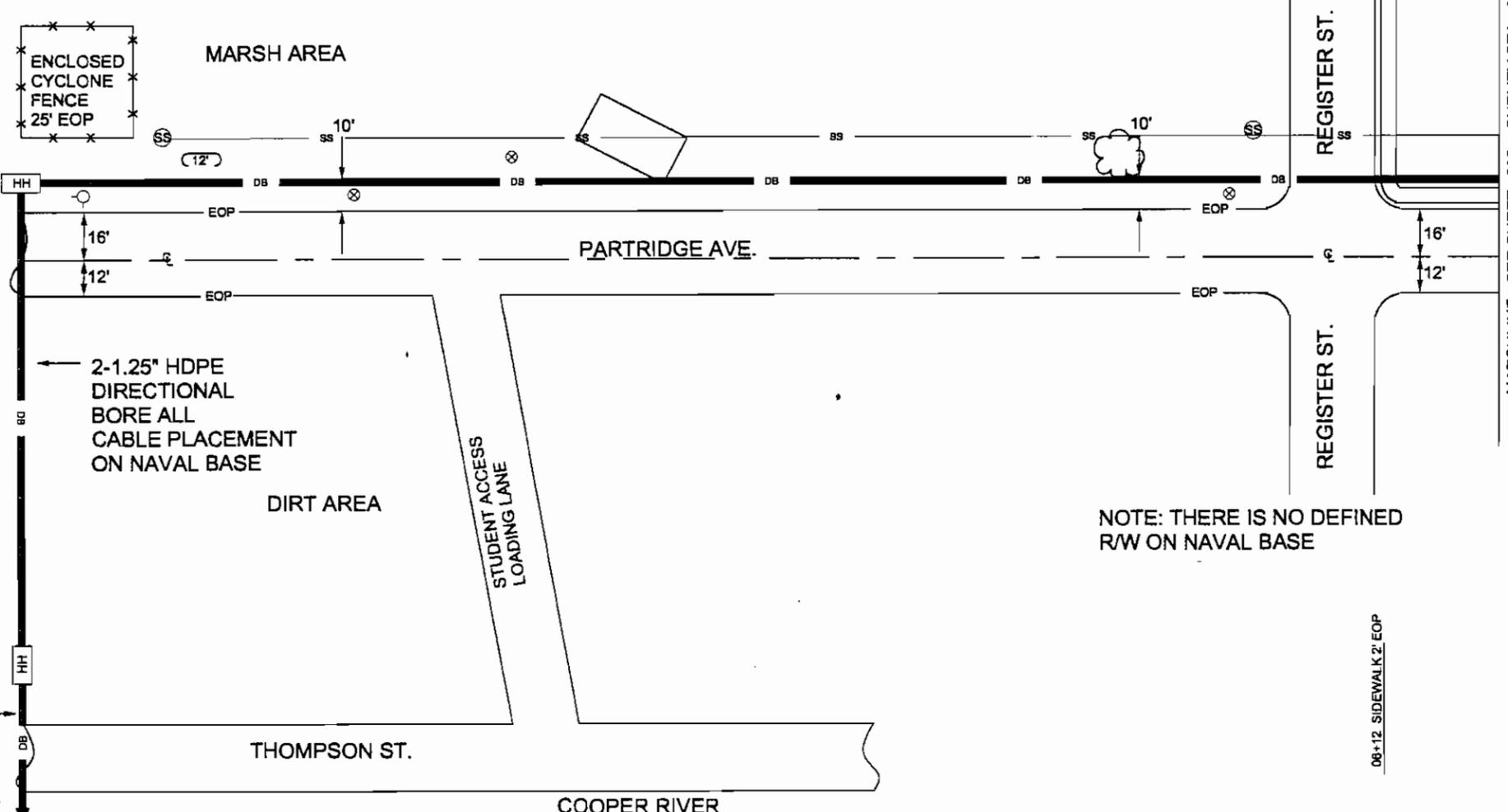
RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA



- 01+83 HH LOCATION & CABLE TURN
- 01+83 FIRE HYDRANT 7' EOP
- 02+08 MANHOLE 26' EOP
- 02+71 PWR POLE 8' EOP
- 03+23 PWR POLE W/DIP 20' EOP
- 03+78 TENNIS COURT 5' EOP
- 05+25 TREE 18' EOP
- 05+81 PWR POLE 8' EOP
- 05+89 MANHOLE 21' EOP
- 05+81 ASPHALT RD. EDGE
- 08+08 CATCH BASIN & ASPHALT ED. EDGE
- 08+17 5' WIDE



00+00 HH LOCATION  
4" ID STEEL PIPE  
40' BELOW RIVER BOTTOM  
GROUND LEVEL

MATCHLINE SEE SHEET 002 SURVEY STA. 06+50

NOTE: THERE IS NO DEFINED RW ON NAVAL BASE

REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY -	
FILENAME	COMPANY:
DATE	DRAWN BY
DESCRIPTION	

SIGNATURE CYCLE
OSP-ENG: SIGNATURE:
OSP-MNGR: SIGNATURE:
CAO-SUP: SIGNATURE:
REC-SUP: SIGNATURE:

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RALEIGH, N.C. 27609

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287 SPRINGHILL FARM RD.  
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FOREIGN UTILITY LOCATIONS ARE APPROXIMATE. CONTACT THE LOCAL ONE CALL AGENCY 72 HOURS PRIOR TO CONSTRUCTION FOR EXACT UTILITY LOCATIONS IN S.C.  
CALL - PUPS  
FOREIGN LOCATE  
1-888-721-7877

**SCALE**  
1" = 50'

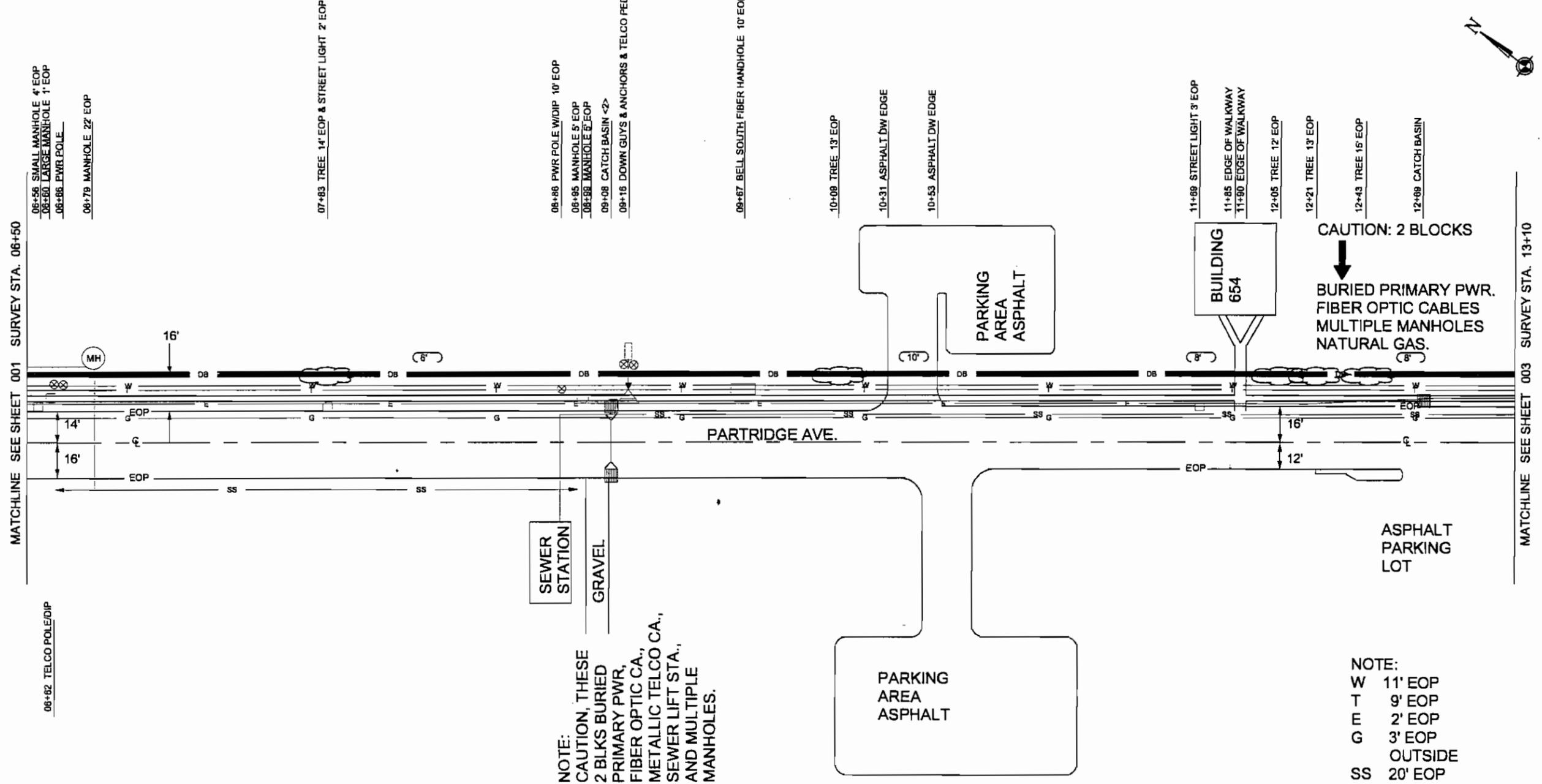
SHEET 001 OF 013

FILE NAME:  
NB001

RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA



MATCHLINE SEE SHEET 001 SURVEY STA. 06+50

MATCHLINE SEE SHEET 003 SURVEY STA. 13+10

REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY -	
FILENAME	COMPANY:
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OSP-MNGR: SIGNATURE:	
CAO-SUP: SIGNATURE:	
REC-SUP: SIGNATURE:	



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FOREIGN LOCATE  
1-888-721-7877

SCALE  
1" = 50'

SHEET 002 OF 013

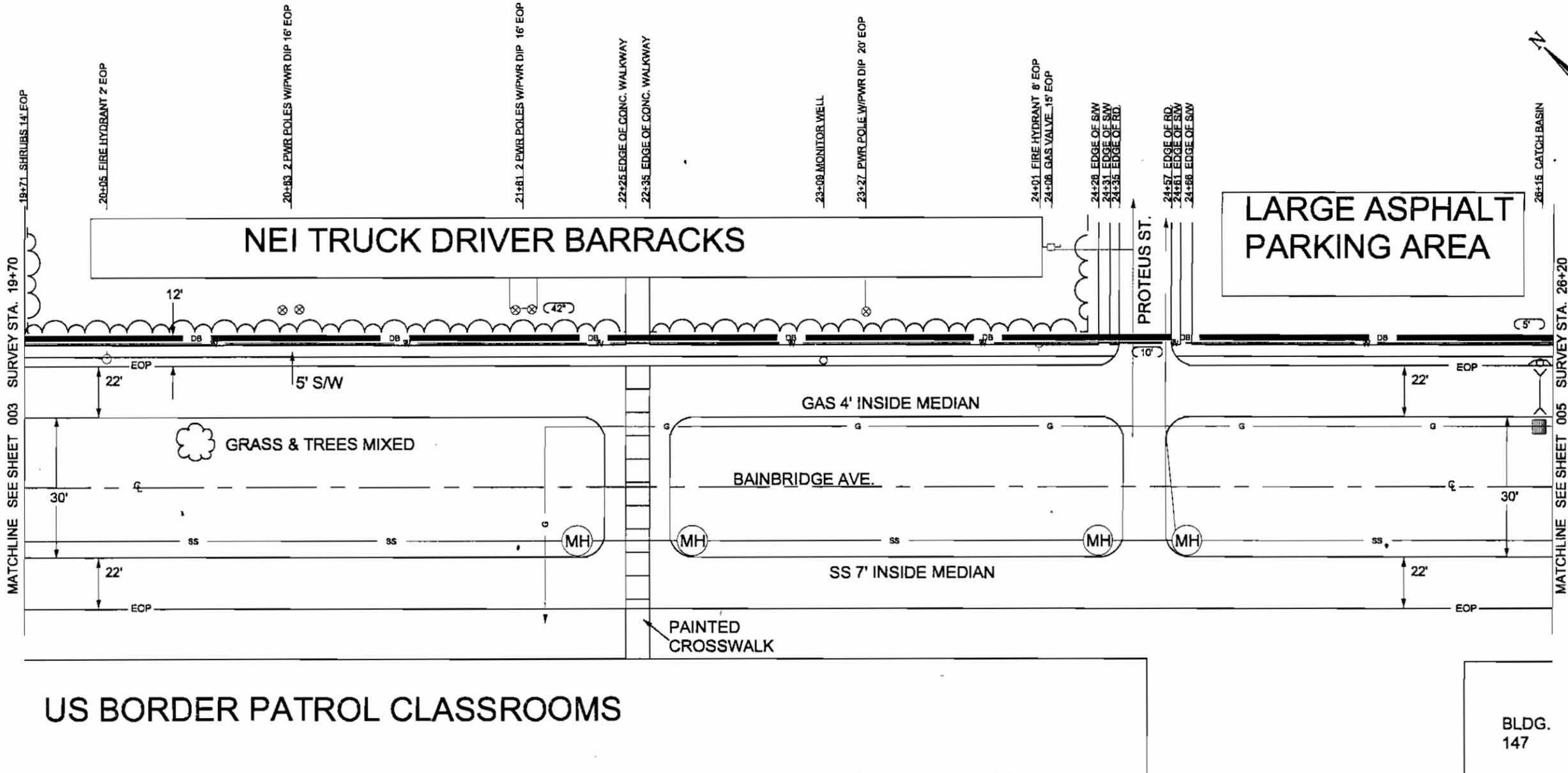
FILE NAME:  
NB002



RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA



REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY -	
FILENAME	COMPANY:
DATE	DRAWN BY
DESCRIPTION	

SIGNATURE CYCLE	
OSP-ENG:	SIGNATURE:
OSP-MNGR:	SIGNATURE:
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REC-SUP:	SIGNATURE:

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**SCALE**

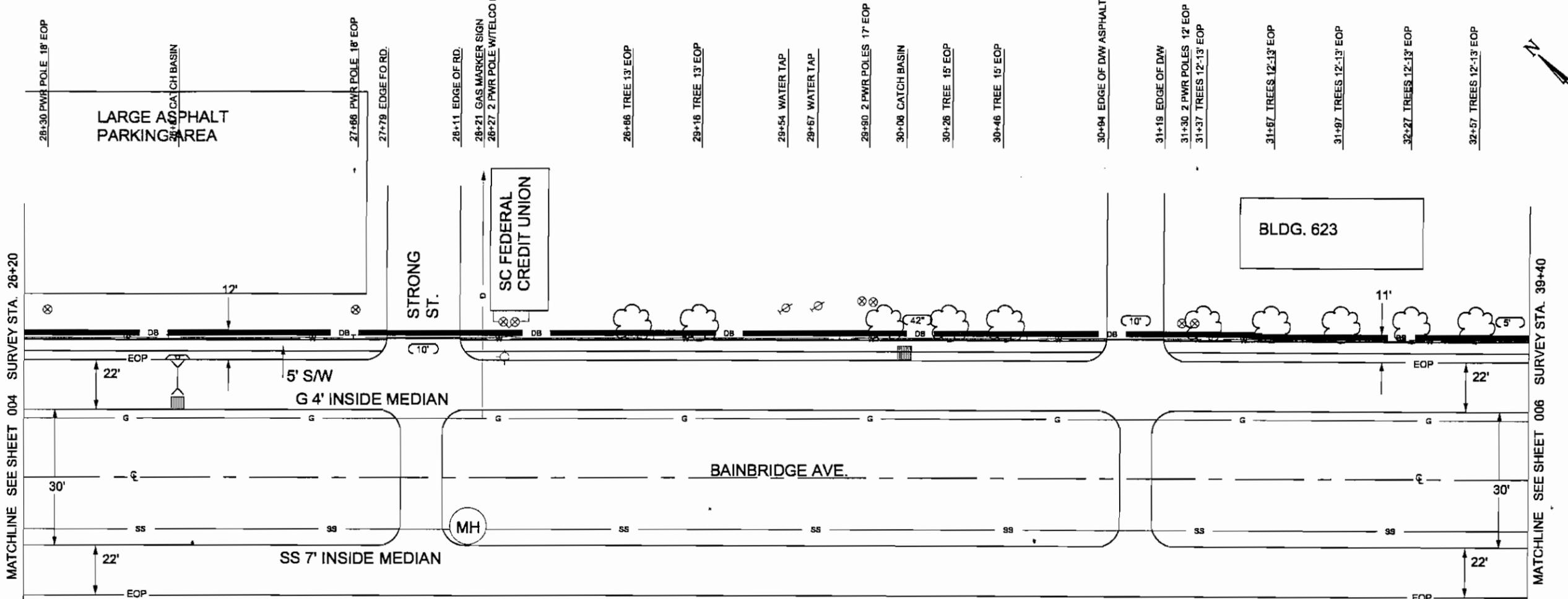
1" = 50'

SHEET 004 OF 013

FILE NAME:  
NB004

BLDG.  
147

RALEIGH, NC ← CHARLESTON COUNTY → SAVANNAH, GA



NOTE: THERE IS NO DEFINED HIGHWAY R/W ON NAVAL BASE

CHARLESTON PASSPORT CENTER

REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY -	
FILENAME	COMPANY:
DATE	DRAWN BY
DESCRIPTION	

SIGNATURE CYCLE
OSP-ENG: SIGNATURE:
OSP-MNGR: SIGNATURE:
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FOREIGN LOCATE  
1-888-721-7877

**SCALE**

1" = 50'

SHEET 005 OF 013

FILE NAME:  
NB005

RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA

32+87 TREES 12'-13' EOP & PWR POLE ALSO 15' EOP

33+57 TREES 12'-13' EOP

34+04 FIRE HYDRANT 14' EOP

34+30 CABLE TURN PLACE CABLE

00+51 EDGE OF WALK

00+58 EDGE OF WALK

00+65 POWER POLE + SIGNAL BOX

00+73 POLE

00+90 EDGE OF DIW

01+18 EDGE OF DIW

01+28 POWER POLE

02+87 POWER POLE

03+21 POWER POLE

03+31 EDGE OF DIW

03+61 EDGE OF DIW

03+78 POWER POLE

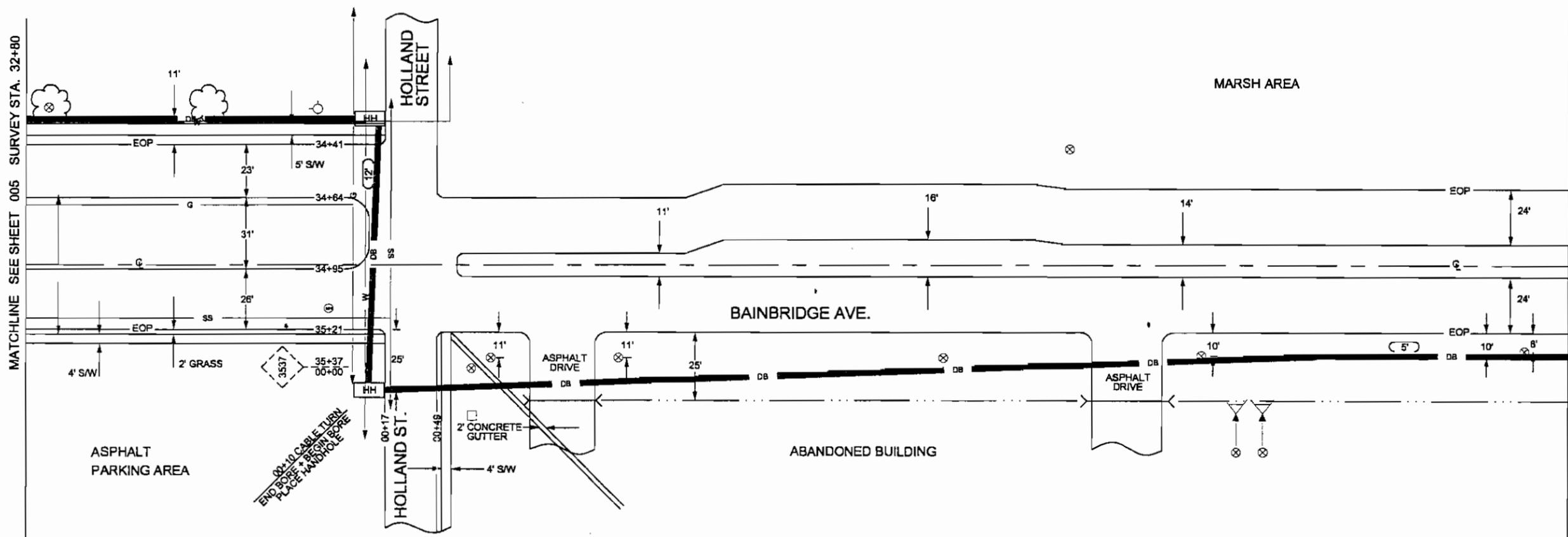
03+88 POWER POLES + ANCHORS

04+35 BORE PIT

05+18 POWER POLE

MATCHLINE SEE SHEET 005 SURVEY STA. 32+80

MATCHLINE SEE SHEET 007 SURVEY STA. 05+35



REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY	COMPANY:
FILENAME	DRAWN BY
DATE	
DESCRIPTION	

SIGNATURE CYCLE	
OSP-ENG:	SIGNATURE:
OSP-MNGR:	SIGNATURE:
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REC-SUP:	SIGNATURE:



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CALL - PUPS  
FOREIGN LOCATE  
1-888-721-7877

**SCALE**

1" = 50'

SHEET 008 OF 013

FILE NAME:  
NB006

RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA



06+65 POWER POLE 8' FROM EOP

07+76 POWER POLE 10' FROM EOP  
07+86 POWER POLE 8' FROM EOP

08+83 POWER POLE 24' FROM EOP  
08+93 POWER POLE 8' FROM EOP

09+84 EDGE OF HALSEY ROAD

10+35 EDGE OF HALSEY ROAD

10+56 POWER POLE 8' FROM EOP

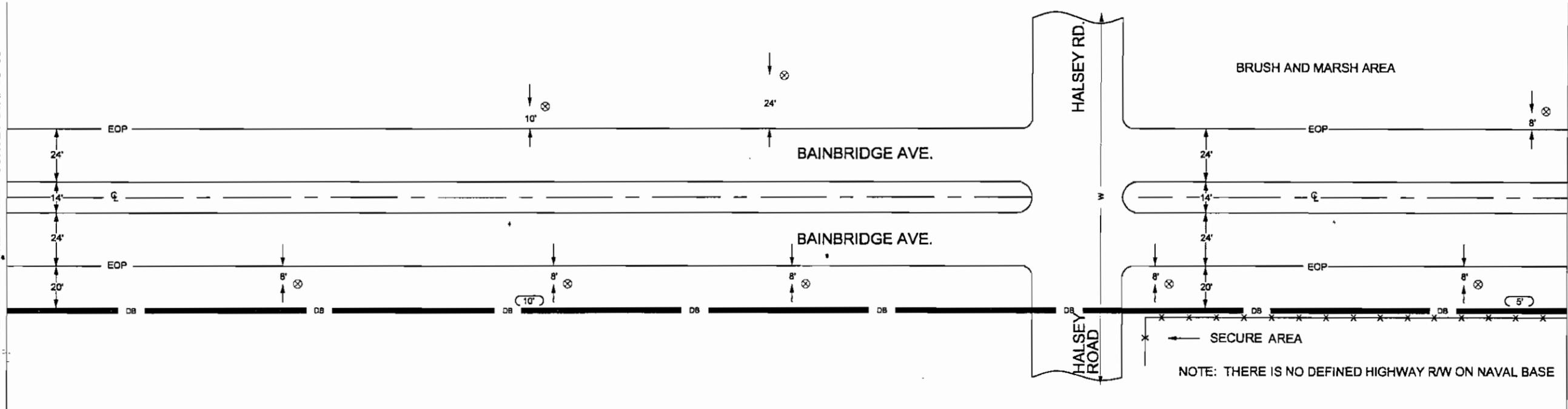
11+80 BORE PIT 10' FROM EOP

11+85 POWER POLE 8' FROM EOP

12+25 POWER POLE 8' FROM EOP

MATCHLINE SEE SHEET 006 SURVEY STA. 05+35

MATCHLINE SEE SHEET 008 SURVEY STA. 12+35



NOTE: THERE IS NO DEFINED HIGHWAY RW ON NAVAL BASE

REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY -	
FILENAME	COMPANY:
DATE	DRAWN BY
DESCRIPTION	

SIGNATURE CYCLE	
OSP-ENG:	SIGNATURE:
OSP-MNGR:	SIGNATURE:
CAD-SUP:	SIGNATURE:
REC-SUP:	SIGNATURE:



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FOREIGN LOCATE  
1-888-721-7877

**SCALE**  
1" = 50'

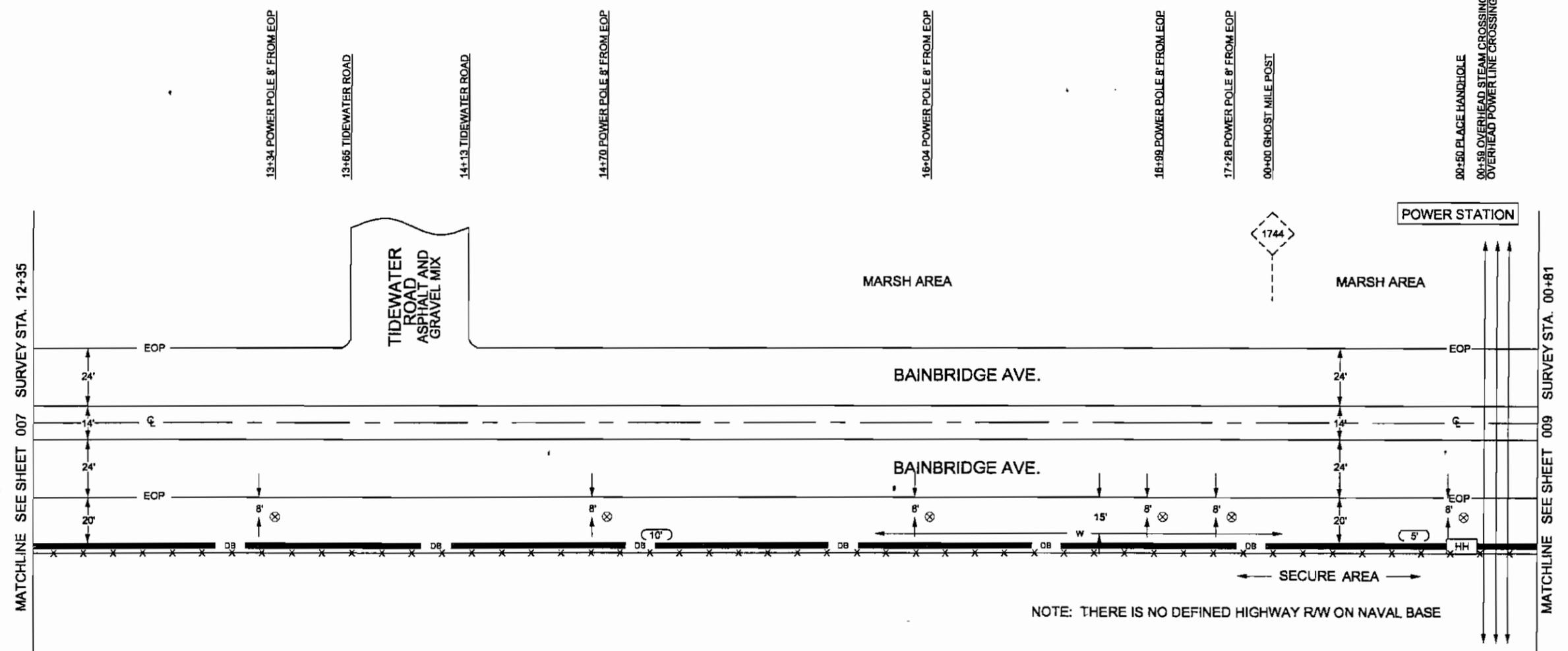
SHEET 007 OF 013

FILE NAME:  
NB007

RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA



REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY	
FILENAME	COMPANY:
DATE	DRAWN BY
DESCRIPTION	

SIGNATURE CYCLE	
OSP-ENG:	SIGNATURE:
OSP-MNGR:	SIGNATURE:
CAD-SUP:	SIGNATURE:
REC-SUP:	SIGNATURE:

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PHONE NUMBER (800) 424-1454  
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CALL - PUPS  
FOREIGN LOCATE  
1-888-721-7877

**SCALE**

1" = 50'

SHEET 008 OF 013

FILE NAME:  
NB008

← RALEIGH, NC

CHARLESTON COUNTY

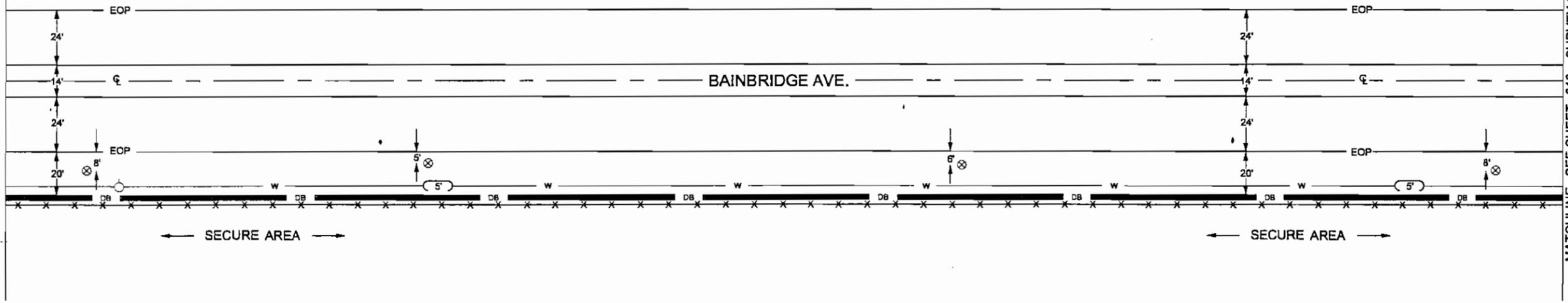
SAVANNAH, GA →



- 01+16 POWER POLE, 8' EOP
- 01+30 FIRE HYDRANT
- 01+81 BORE PIT, 20' EOP
- 02+84 POWER POLE, 5' EOP
- 04+94 POWER POLE, 6' EOP
- 07+27 POWER POLE, 8' EOP

MATCHLINE SEE SHEET 008 SURVEY STA. 00+81

MATCHLINE SEE SHEET 010 SURVEY STA. 07+66



NOTE: THERE IS NO DEFINED HIGHWAY R/W ON NAVAL BASE

REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY -	
FILENAME	COMPANY:
DATE	DRAWN BY
DESCRIPTION	

SIGNATURE CYCLE	
OSP-ENG:	SIGNATURE:
OSP-MNGR:	SIGNATURE:
CAD-SUP:	SIGNATURE:
REC-SUP:	SIGNATURE:

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CALL - PUPS  
FOREIGN LOCATE  
1-888-721-7877

**SCALE**  
1" = 50'

SHEET 009 OF 013

FILE NAME:  
NB009

RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA



08+76 BORE PIT

09+62 POWER POLE

11+11 BOX CULVERT, 8' DEEP, 20' WIDE

11+84 POWER POLE, 8' EOP

14+03 POWER POLE, 7' EOP  
PLACE HANDHOLE

14+18 EOP

14+53 EOP

MARSH AREA

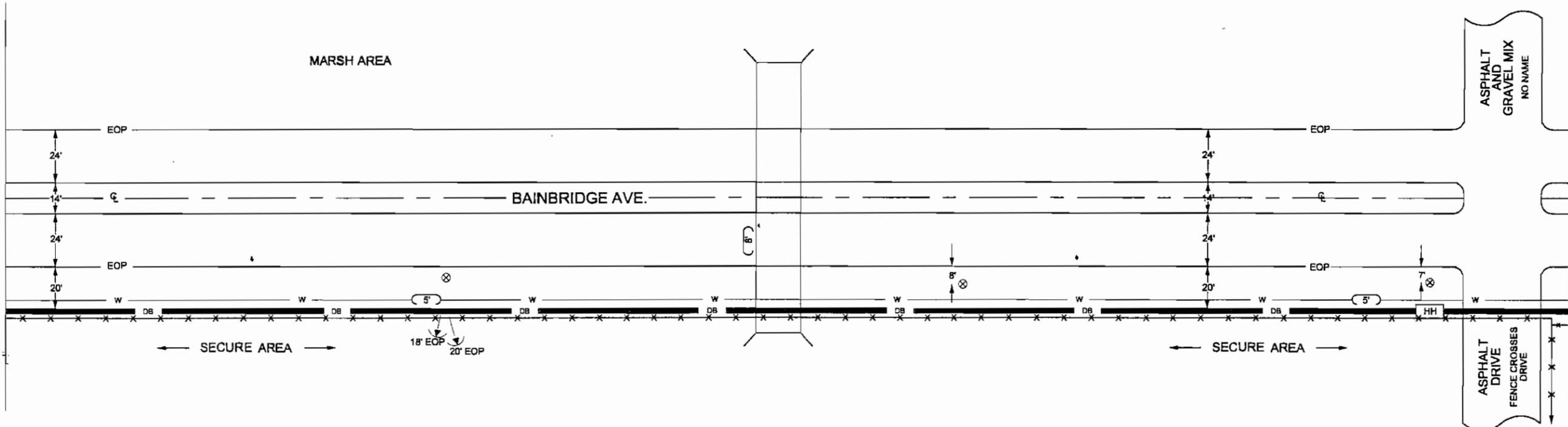
BAINBRIDGE AVE.

ASPHALT AND GRAVEL MIX  
NO NAME

ASPHALT DRIVE  
FENCE CROSSES DRIVE

MATCHLINE SEE SHEET 009 SURVEY STA. 07+66

MATCHLINE SEE SHEET 011 SURVEY STA. 14+66



← SECURE AREA →

← SECURE AREA →

NOTE: THERE IS NO DEFINED HIGHWAY RW ON NAVAL BASE

REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY -	
FILENAME	COMPANY:
DATE	DRAWN BY
DESCRIPTION	

SIGNATURE CYCLE	
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OSP-MNGR:	SIGNATURE:
CAD-SUP:	SIGNATURE:
REC-SUP:	SIGNATURE:

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FOREIGN LOCATE  
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**SCALE**

1" = 50'

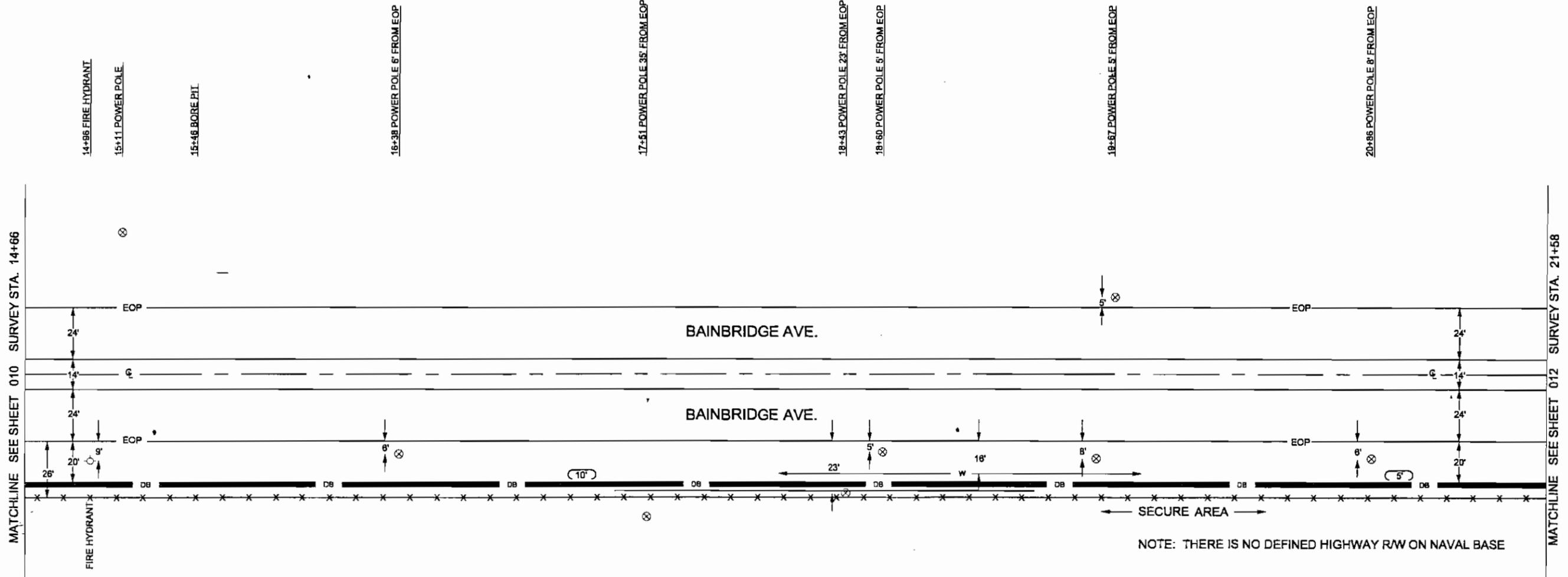
SHEET 010 OF 013

FILE NAME:  
NB010

← RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA →



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REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
PROJECT CITY -	
FILENAME	COMPANY:
DATE	DRAWN BY
DESCRIPTION	

SIGNATURE CYCLE	
DSP-ENG:	SIGNATURE:
DSP-MNGR:	SIGNATURE:
CAD-SUP:	SIGNATURE:
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**SCALE**  
1" = 50'

SHEET 011 OF 013

FILE NAME:  
NB011

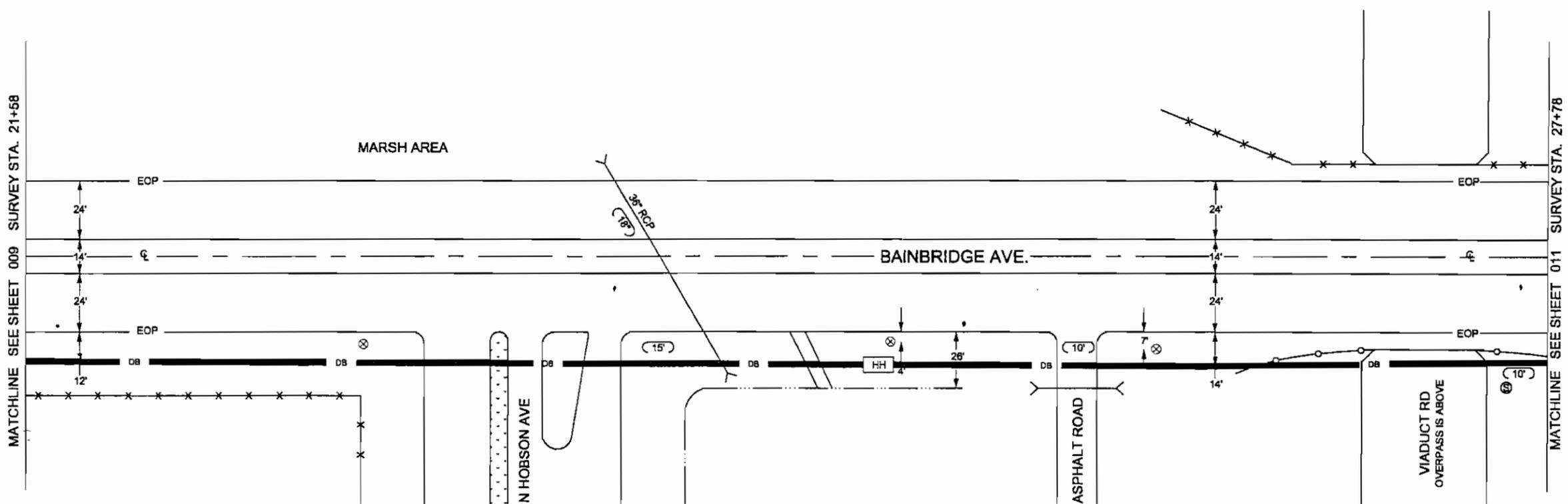
← RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA →



- 22+95 POWER POLE
- 23+20 EOP
- 23+47 EOP
- 23+54 EOP
- 23+78 EOP
- 24+00 EOP
- 24+40 CULVERT
- 24+72 CONC. GUTTER
- 25+08 POWER POLE, 4' EOP  
PLACE HANDHOLE
- 25+78 EOP
- 25+94 EOP
- 26+18 POWER POLE, 7' EOP
- 26+36 END BORE, BEGIN BORE
- 27+02 STARTS SUPPORTS
- 27+63 STOP SUPPORTS
- 27+61 SEWER MANHOLE



NOTE: THERE IS NO DEFINED HIGHWAY RW ON NAVAL BASE

REVISIONS			
REV.	DESCRIPTION	INITIALS	DATE

PROJECT NO.	
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DESCRIPTION	

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OSP-MNGR:	SIGNATURE:
CAD-SUP:	SIGNATURE:
REC-SUP:	SIGNATURE:

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**SCALE**

1" = 50'

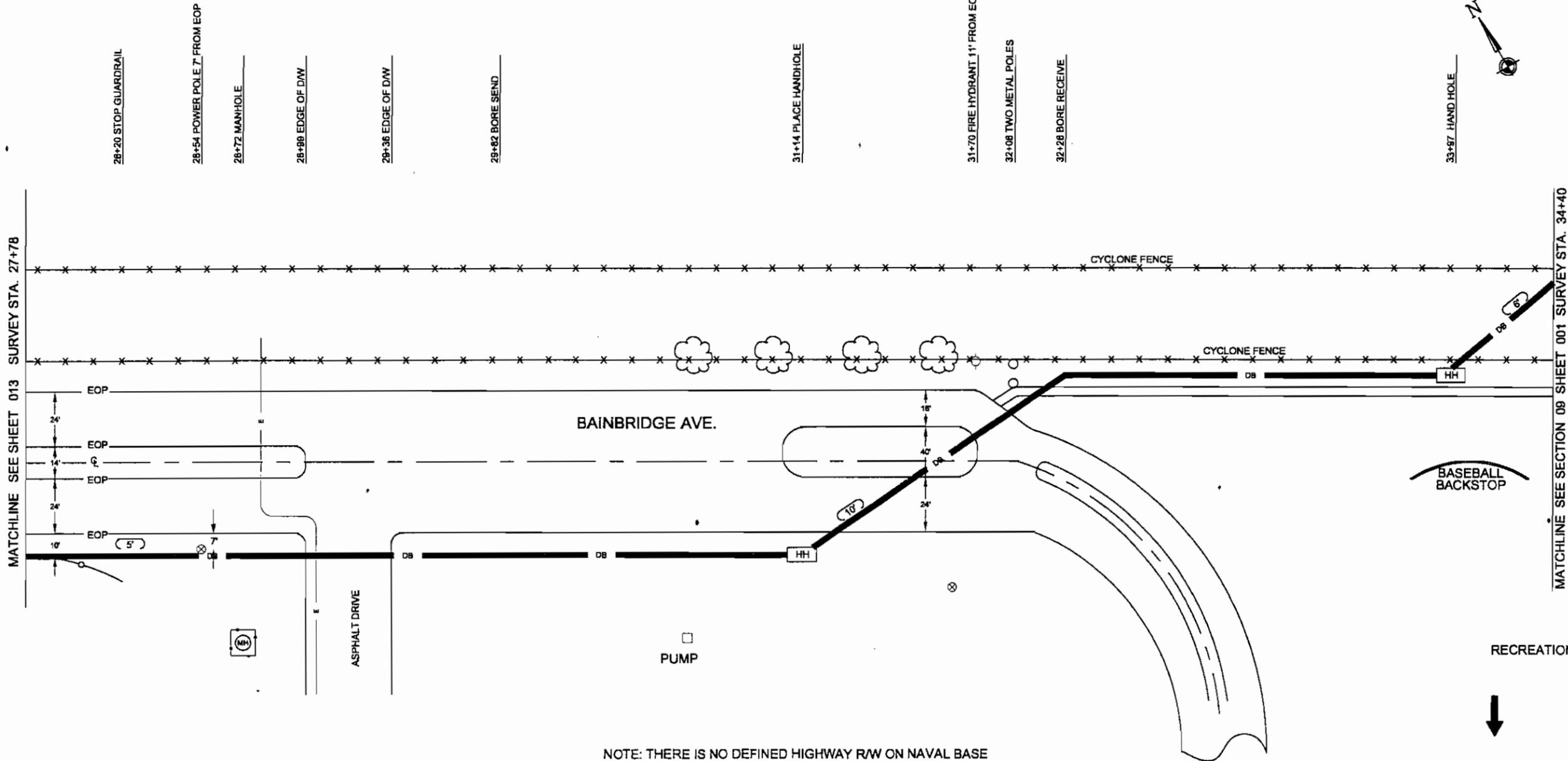
SHEET 12 OF 13

FILE NAME:  
NB012

← RALEIGH, NC

CHARLESTON COUNTY

SAVANNAH, GA →



NOTE: THERE IS NO DEFINED HIGHWAY RW ON NAVAL BASE

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SIGNATURE CYCLE	
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OSP-MNGR:	SIGNATURE:
CAD-SUP:	SIGNATURE:
REC-SUP:	SIGNATURE:



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FOREIGN LOCATE  
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**SCALE**  
1" = 50'

SHEET 13 OF 13

FILE NAME:  
NBC13



**DEPARTMENT OF THE NAVY**  
SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P.O. BOX 190010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-9010

5090  
Ser CSO/009  
4 April 2001

Mr. Sean McDonell  
Charleston Naval Complex Redevelopment Authority  
1360 Truxton Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell:

**SUBJECT: SCE&G REQUEST TO INSTALL UTILITY LINES AT METAL TRADES, BLDG. 223**

Your letter of 3 April 2001 forwarded a request from SCE&G to install utility lines for Metal Trades, Bldg. 223 for our consideration and approval.

The Navy has identified that in this area a release of hazardous substances has occurred, and required actions have not yet been implemented. It is recommended that SCE&G personnel ensure necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

If you have any questions or comments, please contact me at 743-9985.

Sincerely,

A handwritten signature in black ink, appearing to read "M. W. Humphrey".

M. W. HUMPHREY

Caretaker Site Officer

By the direction of the Commander

Enclosure: Digging Permit #009 with comments

## CHARLESTON CARETAKER SITE OFFICE EXCAVATION PERMIT

CSO Log Number = 009  
Request Date = 3 April 2001  
Comments Date = 4 April 2001  
Location = Metal Trades, Bldg. 223

### Environmental Review Comments

This project proposes the following: (a) to install utility lines

The Navy has identified that in this area a release of hazardous substances has occurred, and required actions have not yet been implemented. It is recommended that contractor personnel ensure necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during the project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste.

If excess soil is not able to be reused and needs to be disposed, please contact our office. Note that no soil can leave the site without prior environmental testing. Point of contact is Matt Humphrey, CSO Environmental, at (843) 743-9985.

## Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

<b>Location:</b> <span style="font-size: 1.2em; font-family: cursive;">Metal Trades</span>	<b>Contract No:</b> <span style="font-size: 1.2em; font-family: cursive;">J.C. E-6</span>	<b>Date:</b> <span style="font-size: 1.2em; font-family: cursive;">4-3-01</span>
-----------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

Has work been staked out?    **Yes**    **No**

<b>Facility/Work Involved</b>					
Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	Other _____	
<b>Overhead Lines</b>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<b>Underground Lines</b>	Utility <input checked="" type="checkbox"/>	Communications <input type="checkbox"/>
<b>Method of Excavation</b>					
Hand <input type="checkbox"/>	Power Shovel <input checked="" type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>	Other _____	

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

See sketch

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required</b> <span style="font-size: 1.2em; font-family: cursive;">4-16-01</span>	<b>Termination Date of Permit</b> <span style="font-size: 1.2em; font-family: cursive;">9-30-01</span>
<b>Signature (Requesting Official)</b> <span style="font-size: 1.2em; font-family: cursive;">Richard W. Smith</span>	<b>Date</b> <span style="font-size: 1.2em; font-family: cursive;">4-3-01</span>
<b>Phone Number</b> <span style="font-size: 1.2em; font-family: cursive;">745-6301</span>	

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date  
#009

Points of Contact		Environmental
		Remarks/Action      Signature and Date
Water		SouthDiv Code 02
Robin Harris - CPW	529-0653	SouthDiv Code 18
Sewer		CSO Environmental Compliance
Robert Judy - NCSD	764-3072	<span style="font-size: 1.2em; font-family: cursive;">Matthew H. ...</span> <span style="font-size: 1.2em; font-family: cursive;">4/4/01</span>
Electricity		BRAC Environmental Coordinator (BEC)
R. W. Smith - SCE&G	745-6013	Caretaker Site Office Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
		<span style="font-size: 1.5em; font-family: cursive;">NA</span> CSO Utility Manager                      (Signature and Date)



**DEPARTMENT OF THE NAVY**  
SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P.O. BOX 190010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-0010

5090  
Ser CSO/025  
25 April, 2001

Mr. Gary Crawford.  
US Border Patrol Academy  
2000 Bainbridge Avenue  
North Charleston, SC 29405

Dear Mr. Crawford

**SUBJECT: US BORDER PATROL ACADEMY REQUEST TO REPLACE A FENCE AROUND THE HIGH VOLTAGE SUB-STATION.**

This letter is in response to your letter dated April 24, 2001, which submitted a project to replace a fence around the high voltage sub-station, located on the north east side of Building 61, for our consideration and approval.

The Navy has identified this as SWMU #17 an area where there has been a release of hazardous substance, and removal or remedial actions are underway but all required remedial actions have not yet taken place. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,  
  
M. W. HUMPHREY  
Caretaker Site Officer  
By direction of the Commander

Enclosure: Digging Permit #011 with comments

Requester: Fill Out Upper Half, Don't Sign

Clearance is requested to proceed with work as follows:

Location: Building 01 Contract No: BORDER PATROL Date: 4/24/01

Has work been staked out?  Yes  No EXISTING FENCE

Facility/Work Involved

Excavation  Pavements  Drainage Ditches  Railroad Tracks  Other

Overhead Lines  Utility  Communications  NA NA NA Underground Lines  Utility  Communications

Method of Excavation

Hand  Power Shovel  Ditcher  Auger  Other

Scope of Work (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

REPLACE FENCE THAT SURROUNDS THE HIGH VOLTAGE SUB-STATION LOCATED AT THE NORTH EAST SIDE OF BLDG 01.

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

Date Permit Required: 4/25/01 Termination Date of Permit: 6/25/01

Signature (Requesting Official): [Signature] Date: 4/24/01 Phone Number: 743-8858 x152

Clearance Review/Routing (CSO Use Only)

CSO Log In Number/Date # 011

Points of Contact		Environmental
		Remarks/Action Signature and Date
Water		SouthDiv Code 02
Robin Harris - CPW	529-0653	SouthDiv Code 18
Sewer		CSO Environmental Compliance SWMU # <u>17</u> AOC # _____ Tank # _____
Robert Judy - NCSD	764-3072	<u>W. Anthony [Signature]</u> <u>4/25/01</u>
Electricity		BRAC Environmental Coordinator (BEC)
R. W. Smith - SCE&G	745-8013	Caretaker Site Office Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <u>NA</u> CSO Utility Manager (Signature and Date)



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

5090

Ser CSO/026

04 May, 2001

Mr. Gary Crawford.  
US Border Patrol Academy  
2000 Bainbridge Avenue  
North Charleston, SC 29405

Dear Mr. Crawford

**SUBJECT: US BORDER PATROL ACADEMY SIGNS REPLACEMENT.**

This letter is in response to your letter dated May 2, 2001, which submitted a project to replace signs on Dyess Avenue, Osprey Street and south east side of Building 61, for our consideration and approval.

The Navy has identified the Building 61 signs location as SWMU #17 an area where there has been a release of hazardous substance, and removal or remedial actions are underway but all required remedial actions have not yet taken place. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified. The soil, which is excavated to install new sign, shall be used to fill holes left from the extraction of existing sign.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

M. W. HUMPHREY

Caretaker Site Officer

By direction of the Commander

Enclosure: Digging Permit #012 with comments

# Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

Location: <i>SEE STATEMENT OF WORK</i>	Contract No: <i>OXIC-054</i>	Date: <i>5/2/01</i>
-------------------------------------------	---------------------------------	------------------------

Has work been staked out?  Yes  No

Facility/Work Involved					
Excavation <input checked="" type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	Other _____	
<u>Overhead Lines</u>		Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<u>Underground Lines</u>	
		Utility <input checked="" type="checkbox"/>	Communications <input checked="" type="checkbox"/>		
Method of Excavation					
Hand <input type="checkbox"/>	Power Shovel <input type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input checked="" type="checkbox"/>	Other _____	

Scope of Work (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

*SEE ATTACHED MAP*

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

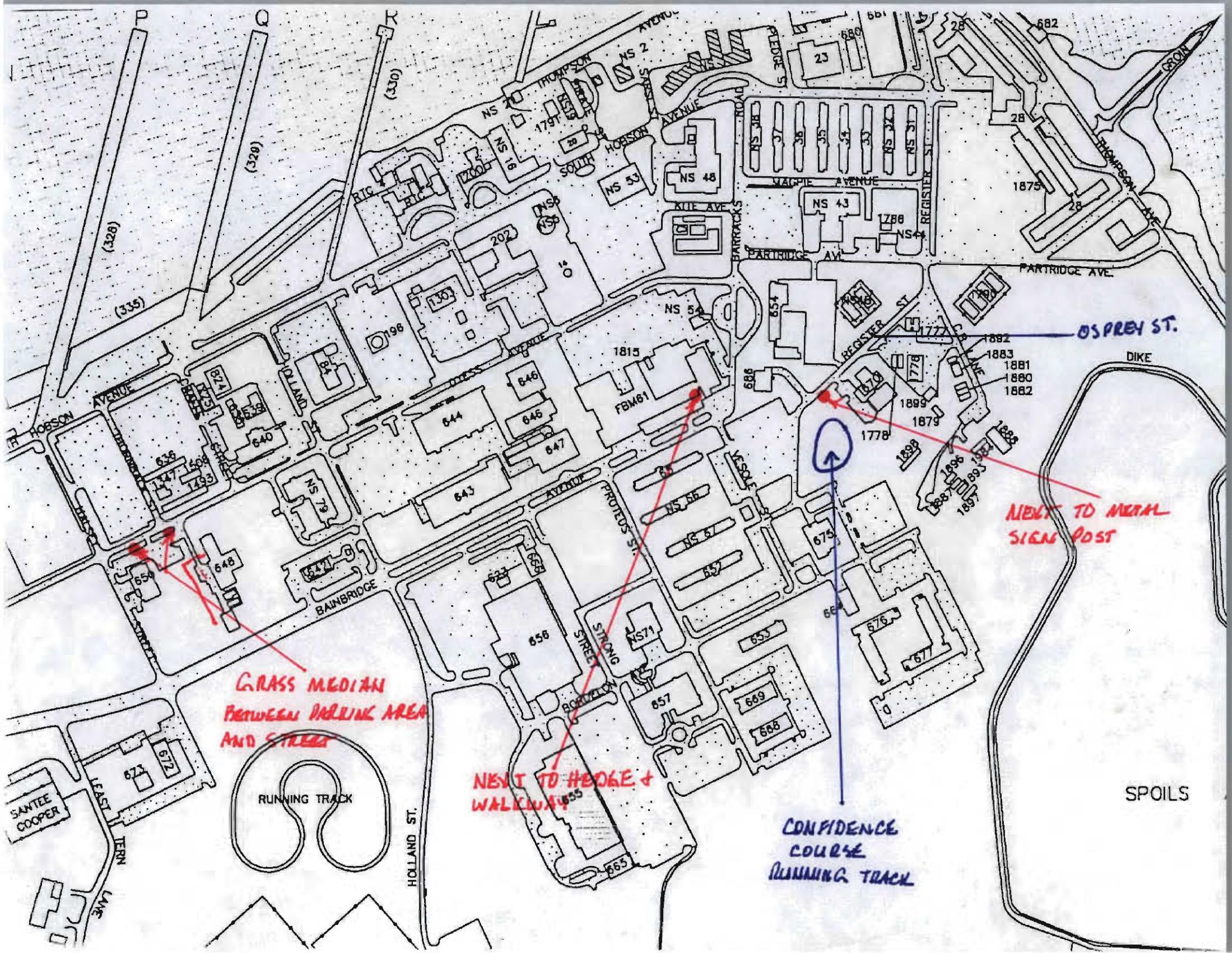
Date Permit Required <i>HEAD</i>	Termination Date of Permit <i>10/01</i>	
Signature (Requesting Official) <i>[Signature]</i>	Date <i>5/2/01</i>	Phone Number <i>713-8858 ext 152</i>

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date

# *012*

Points of Contact	Remarks/Action	Environmental Signature and Date
Water	SouthDiv Code 02	
Robin Harris - CPW 529-0653	SouthDiv Code 18	
Sewer	CSO Environmental Compliance	<i>[Signature]</i>
Robert Judy - NCSO 764-3072	SWMU # <u>17</u> AOC # _____ Tank # _____	<i>5/7/01</i>
Electricity	BRAC Environmental Coordinator (BEC)	
R. W. Smith - SCE&G 745-6013	Caretaker Site Office	
Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
<i>NA</i>		
CSO Utility Manager		(Signature and Date)



GRASS MEDIAN  
BETWEEN PARKING AREA  
AND STREET

NEXT TO HEDGE +  
WALKWAY

NEXT TO METAL  
SIGN POST

CONFIDENCE  
COURSE  
RUNNING TRACK

SPOILS



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P.O. BOX 190010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-9010

5090  
Ser CSO/35  
11 June, 2001

Mr. Sean P. McDonell, P.E.  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell

**SUBJECT: BELLSOUTH CONDUIT INSTALLATION REQUEST.**

This letter is in response to your letter dated June 04, 2001, which submitted a project to install 3-duct conduit on the southwest side of Hobson Avenue from Transportation Lane to an existing manhole at Viaduct Road.

The Navy has identified this area where there have been release of hazardous substance or petroleum products in the past. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that Bellsouth Telecommunications ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

A handwritten signature in black ink that reads "M. W. Humphrey".

M. W. HUMPHREY  
Caretaker Site Officer

By direction of the Commander

Enclosure: Digging Permit #013 with comments

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 013

Request Date = 06 June, 2001

Comments Date = 11 June, 2001

Location = Southwest side Hobson Avenue from Transportation Lane to manhole at Viaduct Road.

### Environmental Review Comments

This project proposes the installation of 3-duct conduit on the southwest side of Hobson Avenue from Transportation Lane to an existing manhole at Viaduct Road.

The Navy has identified this to be an area where there has been a release of hazardous substance or petroleum products in the past but concentrations did not require removal or remedial action. Therefore digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that Bell south ensure that necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil.

No soil shall leave the base without permission. Any soil excavated during this project should be stored **on site and returned to the excavation** after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste.

If excess soil is not able to be reused and needs to be disposed of, please contact our office. Note that **no soil can leave the site without prior environmental testing**. Point of contact is Rick Nielson, CSO Environmental, at (843) 743-9985.

## Charleston Caretaker Site Office Excavation Permit

**Requester:** Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

Location:	Contract No:	Date:
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Has work been staked out?		Yes	No
<b>Facility/Work Involved</b>			
Excavation <input checked="" type="checkbox"/>	Pavements <input checked="" type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>
<u>Overhead Lines</u>		<u>Underground Lines</u>	
Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>
<b>Method of Excavation</b>			
Hand <input checked="" type="checkbox"/>	Power Shovel <input type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input checked="" type="checkbox"/>
			Other Backhoe <input type="checkbox"/>

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

SEE ATTACHED SKETCH

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

Date Permit Required	Termination Date of Permit
Signature (Requesting Official) <i>Arnel P. Dolan</i>	Date 5-30-01
Phone Number 843-722-5168	

**Clearance Review/Routing (CSO Use Only)** # *017* CSO Log In Number/Date

Points of Contact	Remarks/Action	Environmental Signature and Date
Water  Robin Harris - CPW 529-0653	South Div Code 02  South Div Code 18	
Sewer  Robert Judy - NCSD 764-3072	CSO Environmental Compliance SWMU # _____ AOC # _____ Tank # _____	<i>Matthew H. Phay</i> 6-11/01
Electricity  R. W. Smith - SCE&G 745-6013	BRAC Environmental Coordinator (BEC)	
Caretaker Site Office		
Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

FACILITY OUTAGE REQUEST  
CNSYD-11300/23 (Rev. 2-81)

DATE  
5/30/01

CNSYDINST 11300.7A 19C20831N

FROM  
BellSouth Telecommunications - Anne Dollason

TO  
RDA Attn: Sean McDonnell

1. IT IS REQUESTED THAT ARRANGEMENTS BE MADE FOR OBTAINING AN OUTAGE ON THE BELOW FACILITY:

- CRANE TRACKAGE
- STREET/ROAD
- RAILROAD TRACKAGE
- OTHER

2. TIME AND DATE OF OUTAGE

FROM:	TIME	DATE	TO:	TIME	DATE

3. LOCATION AND TYPE OF WORK TO BE ACCOMPLISHED

Place 3-duct conduit on the south west side of Hobson Avenue from existing manhole at 10th Street down 1546 feet to existing manhole at Viaduct Road. SEE ATTACHED SKETCH

4. WORK TO BE PERFORMED BY

5. CONTRACT/JOB CONTROL NUMBER

SIGNATURE

*Anne P. Dollason*

DATE

5-30-01

FROM

TO

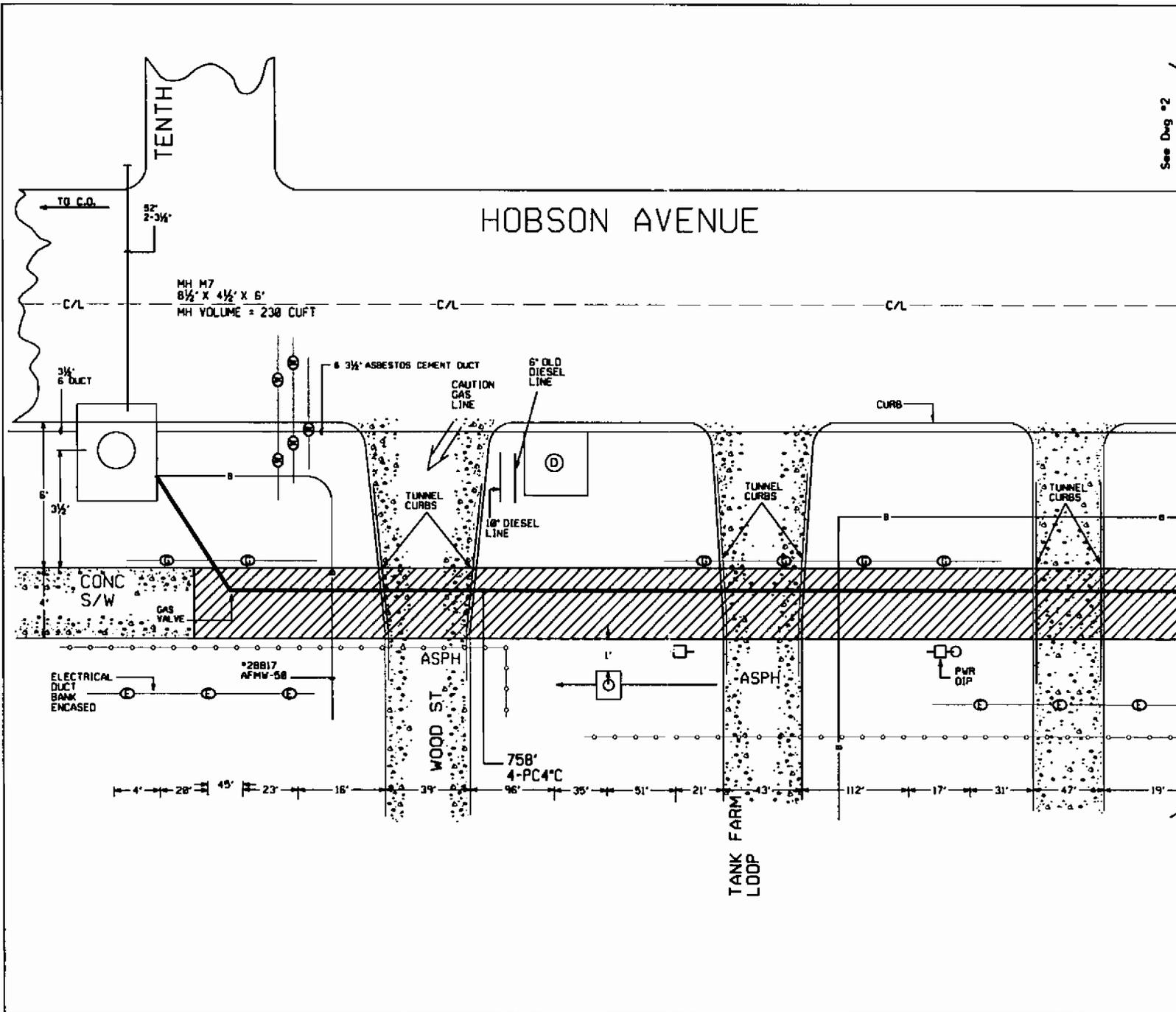
1. OUTAGE REQUEST RETURNED

APPROVED  DISAPPROVED

2. REMARKS/REASON FOR DISAPPROVAL

3. RESCHEDULED DATES/TIMES

SIGNATURE



See Dwg #2

**SYMBOL LEGEND**

Proposed	Existing	Description
		AERIAL CABLE
		B- BURIED CABLE
		BJ- BUR JOINT-TRENCH
		BST POLE
		POWER POLE
		ANCHOR & GUY
		PUSH BRACE
		ENCLOSURE
		ENCLOSURE
		MANHOLE
		PIPE/CONDUIT
		CABLE MARKER
		AERIAL SVC WIRE
		AERIAL SVC WIRE
		BURIED SVC WIRE
		BURIED SVC WIRE
		JOINT-TRENCH SVC
	N/A	BORE
	N/A	CLT PAVEMENT
	N/A	SPLICING PIT
	N/A	TRENCH LENGTH

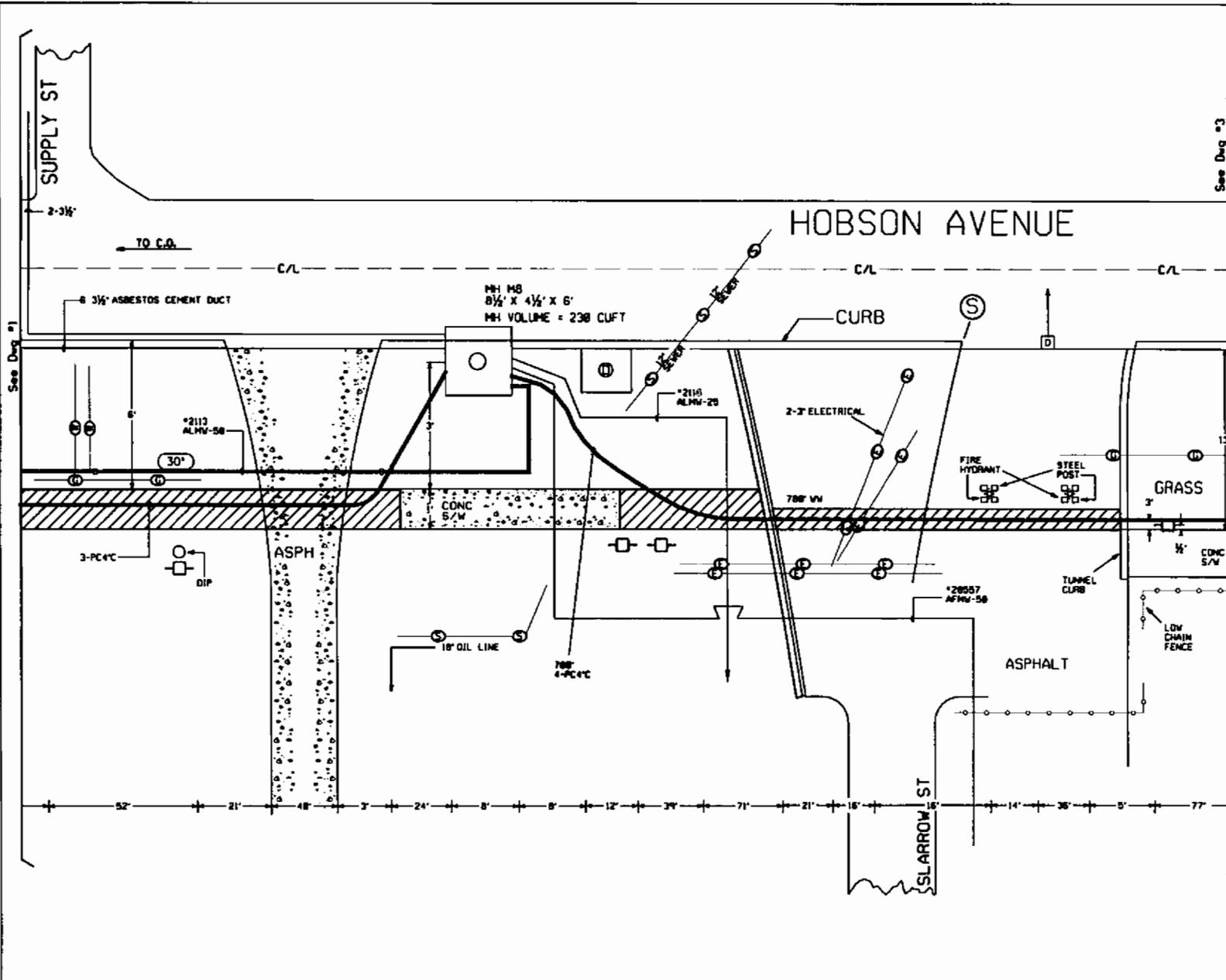
**BellSouth Telecommunications**

PROPOSED TELEPHONE FACILITIES  
ON RIGHT OF WAY OF  
RDA/NAVY

SOUTH CAROLINA

Exchange: CHARLESTON  
 Designer: MIKE LEYH  
 Phone: 722-3901  
 Authorization: 19C2083IN

Dwg. 1 of 3



**BellSouth Telecommunications**

PROPOSED TELEPHONE FACILITIES  
ON RIGHT OF WAY OF  
RDA/NAVY

SOUTH CAROLINA

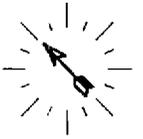
Exchange: CHARLESTON

Designer: MIKE LEYH

Phone: 722-3901

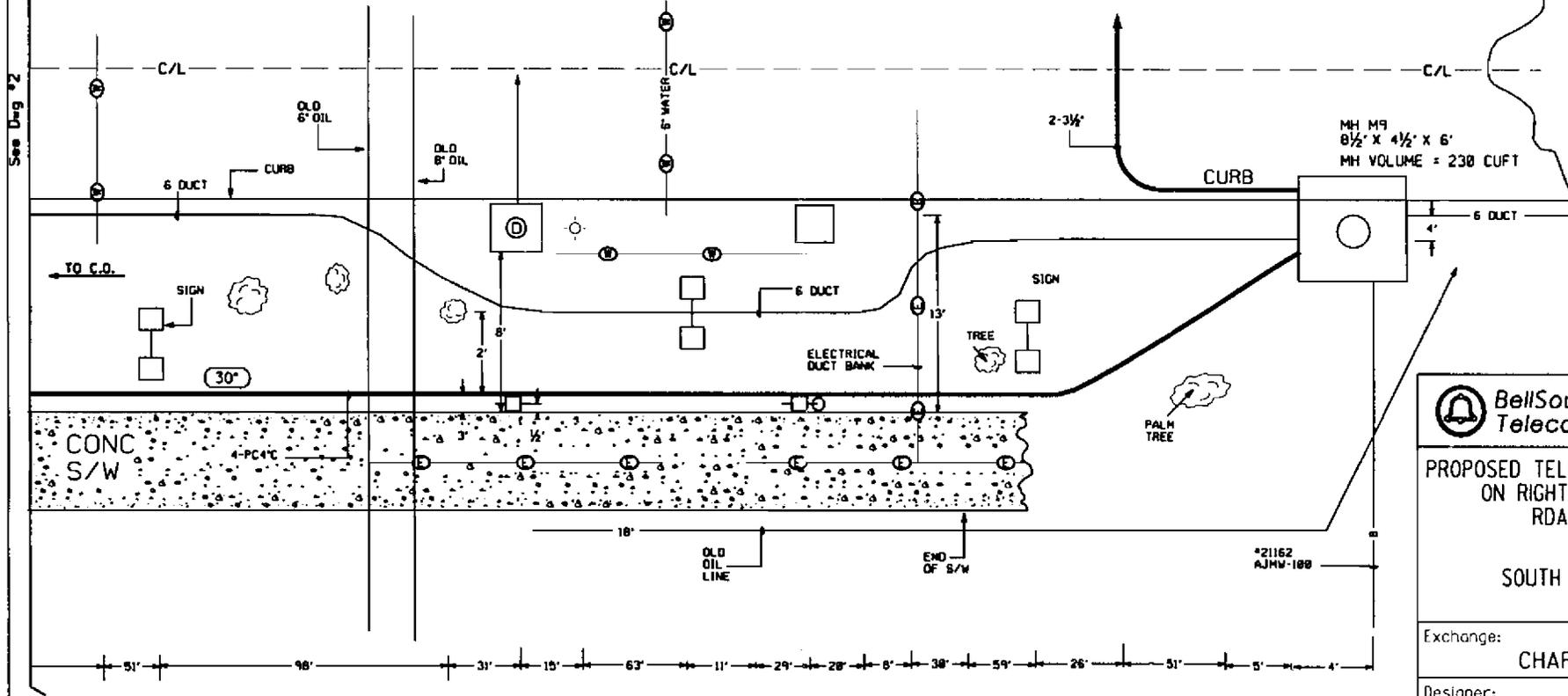
Authorization: 19C2083IN

Dwg. 2 of 3



THIRTIETH STREET

HOBSON AVENUE



PROPOSED TELEPHONE FACILITIES  
ON RIGHT OF WAY OF  
RDA/NAVY

SOUTH CAROLINA

Exchange: CHARLESTON

Designer: MIKE LEYH

Phone: 722-3901

Authorization: 19C2083IN

Dwg. 3 of 3

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 015

Request Date = 02 July, 2001

Comments Date = 03 July, 2001

Location = From manhole at Avenue F to building NH 61

### Environmental Review Comments

This project proposes the installation of underground electrical service to building NH 613 from an existing manhole at Avenue F.

The Navy has identified this to be an area where there has been a release of hazardous substance or petroleum products in the past but concentrations did not require removal or remedial action. Therefore digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that Bell south ensure that necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil.

No soil shall leave the base without permission. Any soil excavated during this project should be stored **on site and returned to the excavation** after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste.

If excess soil is not able to be reused and needs to be disposed of, please contact our office. Note that **no soil can leave the site without prior environmental testing**. Point of contact is Rick Nielson, CSO Environmental, at (843) 743-9985.

## Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date & Sign

**Clearance is requested to proceed with work as follows:**

<b>Location:</b> Ave "F" at Blvd # 61	<b>Contract No:</b>	<b>Date:</b> 7-2-01
------------------------------------------	---------------------	------------------------

**Has work been staked out?**    Yes    No

**Facility/Work Involved**

Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	Other _____
<b>Overhead Lines</b>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<b>Underground Lines</b>	Utility <input checked="" type="checkbox"/>
Hand <input type="checkbox"/>	Power Shovel <input checked="" type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>	Other _____

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

See sketch

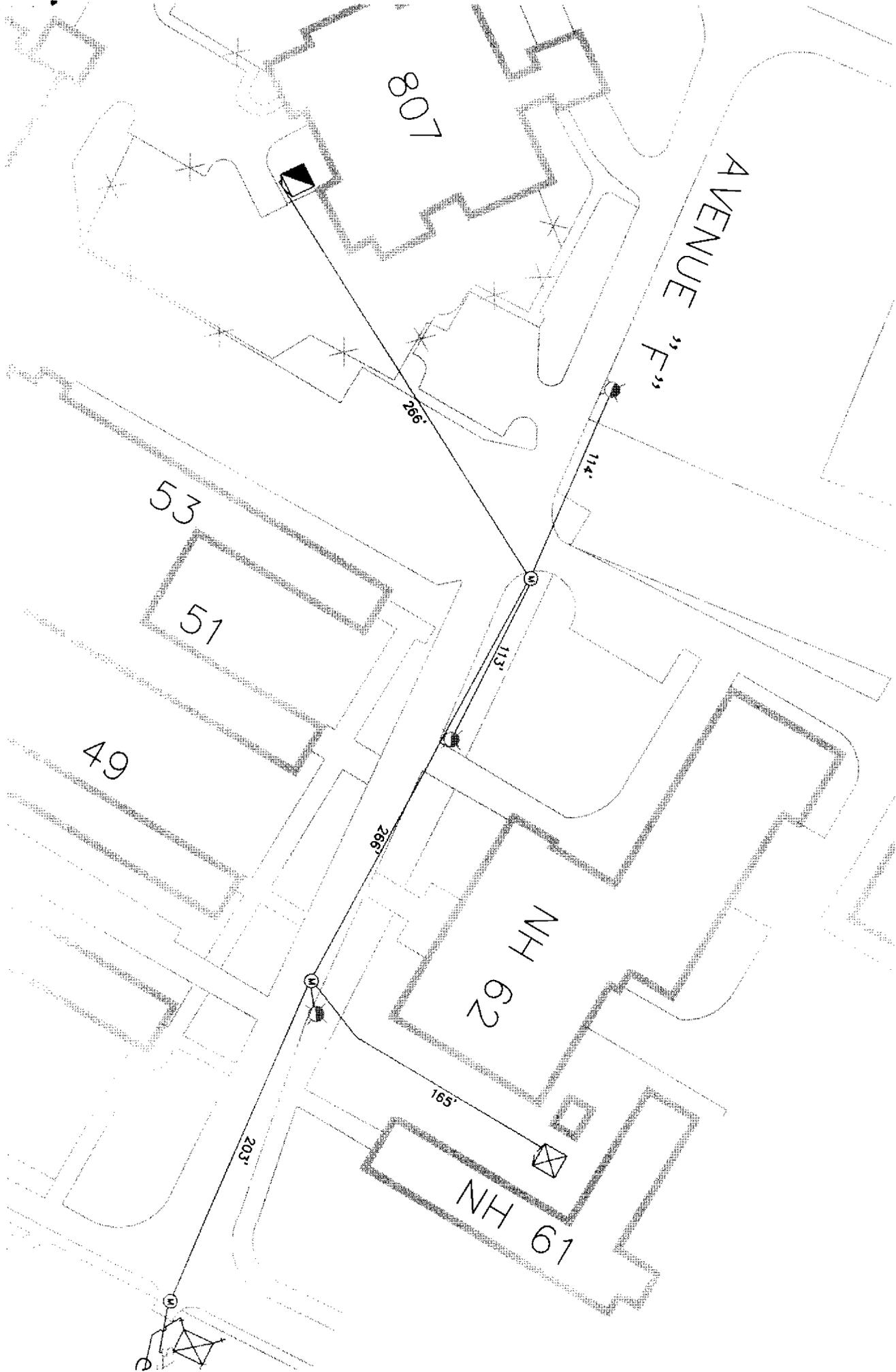
Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required</b> 7-2-01	<b>Termination Date of Permit</b> 9-2-01		
<b>Signature (Requesting Official)</b> <i>Richard W. Smith</i>	<table style="width: 100%;"> <tr> <td style="width: 50%;"><b>Date</b> 7-2-01</td> <td style="width: 50%;"><b>Phone Number</b> 745-6381</td> </tr> </table>	<b>Date</b> 7-2-01	<b>Phone Number</b> 745-6381
<b>Date</b> 7-2-01	<b>Phone Number</b> 745-6381		

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date

Points of Contact		Environmental
		Remarks/Action      Signature and Date
Water		SouthDiv Code 02
Robin Harris - CPW	529-0653	SouthDiv Code 18
Sewer		CSO Environmental Compliance
Robert Judy - NCSD	764-3072	BRAC Environmental Coordinator (BEC)
Electricity		Caretaker Site Office
R. W. Smith - SCE&G	745-6013	Permit Approved? <input type="checkbox"/> YES <input type="checkbox"/> NO
		CSO Utility Manager      (Signature and Date)



807

AVENUE "F"

53

51

49

NH 62

NH 61

266'

114'

113'

266'

165'

203'

M

D

**James C. Bryan**  
*Chairman*

**Lonnie Hamilton, III**  
*Vice Chairman*

**Ronnie M. Givens**  
*Secretary/Treasurer*

**James M. Denton**  
*Assistant Secretary/Treasurer*



**Susan K. Dunn**

**James S. Minor, Jr.**

**Eugene B. Ott**

**Jack C. Sprott**  
*Executive Director*

July 11, 2001

**Charleston Caretaker Site Officer**  
**Southern Division, Naval Facilities Engineering Command**  
**P. O. Box 190010**  
**North Charleston, SC 29419-9010**

**Subject: BUILDING 5 DIGGING PERMIT REQUEST**

**Dear CSO:**

CMMC LLC is required by CPW to install a backflow preventer for the fire protection system on Building 5. As CPW had done some exploratory digging for this installation in the past at this location, they did not think that a permit was required. I discussed this with Mr. Rick Brown of CMMC and told him that a permit was required, so I am forwarding the request with this letter. The excavation will be performed using both a backhoe and hand excavation and using a jackhammer to break through the concrete and all soil will be returned to the excavation.

Please review this information and provide us with any comments you may have.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sean P. McDonell'.

**Sean P. McDonell, P. E.**  
**Engineering Director**

/enclosure

1360 Truxtun Avenue, Suite 300 • North Charleston, SC 29405-2005  
Phone (843) 747-0010 • Fax (843) 747-0054



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-0010

5090  
Ser CSO/36  
11 July, 01

Mr. Sean P. McDonell, P.E.  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell

**SUBJECT: CMMC INSTALLATION REQUEST FOR BACKFLOW PREVENTER.**

This letter is in response to your letter dated July 11, 2001, which submitted a project to install a backflow preventer for fire protection system to building 5. Located between Building 5 and North Hobson Avenue.

The Navy has identified this area where there have been release of hazardous substance or petroleum products in the past. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that CMMC ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

A handwritten signature in black ink, appearing to read "Johnny Bassham", written over a horizontal line.

Johnny Bassham  
Caretaker Site Officer

By direction of the Commander

Enclosure: Digging Permit #016 with comments

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 016  
Request Date 11 July 2001  
Comments Date = 11 July 2001  
Location = Between Building 5 and North Hobson Ave.

### Environmental Review Comments

This project proposes the installation of a backflow preventer for fire protection system to Building 5.

The Navy has identified this to be an area where release of hazardous substance has occurred, but required remedial actions have not yet been implemented. Therefore digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that CMMC ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact our office for disposal instructions.

Note that **no** soil can leave the site without prior environmental testing. Point of contact is Johnny Bassham, CSO Environmental, at (843) 743-9985.

**Charleston Caretaker Site OFFICE EXCAVATION PERMIT**

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

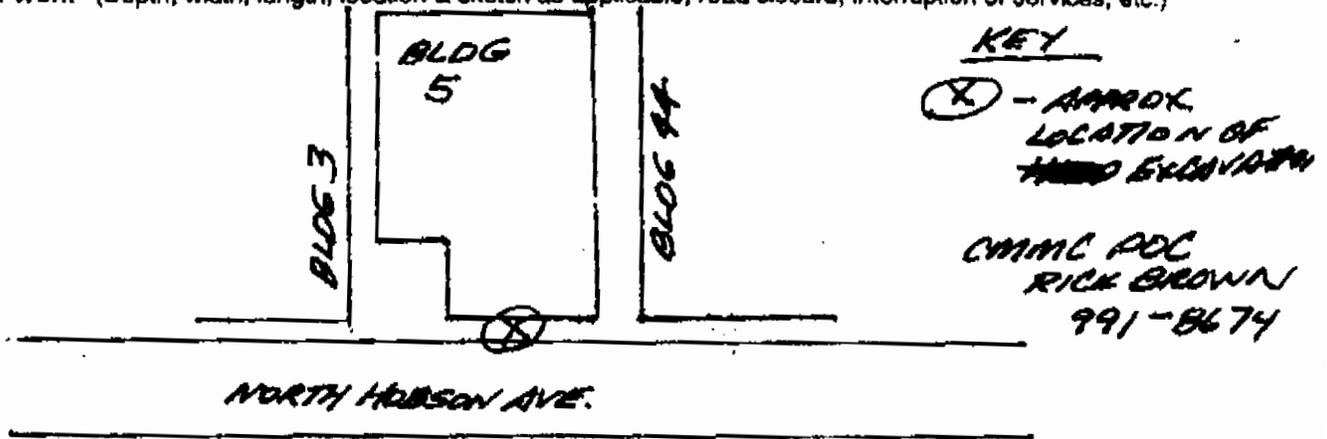
Location: <b>BUILDING 5</b>	Contract No: <b>CMMC</b>	Date: <b>11 JULY 01</b>
--------------------------------	-----------------------------	----------------------------

Has work been staked out? Yes  No

**Facility/Work Involved**

Excavation <input checked="" type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	Other <input type="checkbox"/>
<b>Overhead Lines</b>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<b>Underground Lines</b>	Utility <input checked="" type="checkbox"/>
Hand <input checked="" type="checkbox"/>	Power Shovel <input type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>	Other <input checked="" type="checkbox"/> <b>JACKHAMMER</b>

Scope of Work (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)



Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cableless locators or other approved methods.

Date Permit Required <b>ASAP</b>	Termination Date of Permit <b>1 AUG 01</b>
Signature (Requesting Official) <i>[Signature]</i>	Date <b>11 JUL 01</b>
	Phone Number <b>747-0010</b>

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date  
**716**

Points of Contact		Environmental	
		Remarks/Action	Signature and Date
Water		SouthDiv Code 02	
Robert Sagaser - CPW	529-0853	SouthDiv Code 18	
Sewer		CSO Environmental Compliance	<i>[Signature]</i>
Robert Judy - NCSD	784-3072	SWMU # _____ AOC # <u>ESCE</u> Tank # _____	<b>11/7/01</b>
Electricity		BRAC Environmental Coordinator (BEC)	
R. W. Smith - SCE&G	745-6381		
		Caretaker Site Office	
		Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
		<i>[Signature]</i>	
		CSO Utility Manager (Signature and Date)	



**DEPARTMENT OF THE NAVY**  
SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P.O. BOX 190010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-9010

5090  
Ser CSO/039  
12 July, 2001

Mr. Gary Crawford.  
US Border Patrol Academy  
2000 Bainbridge Avenue  
North Charleston, SC 29405

Dear Mr. Crawford

**SUBJECT: US BORDER PATROL ACADEMY 3 MOBILE HOME SET UP.**

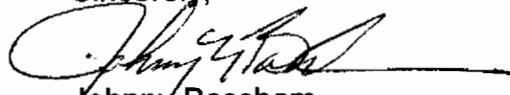
This letter is in response to your letter dated July 5, 2001, which submitted a project to set up 3 mobile homes in the area west of the tennis courts and adjacent to Building 28 wing 6, on Partridge Avenue, for our consideration and approval.

The Navy has identified the 3 mobile home site location as an area where there has been a release of hazardous substance but at concentrations that do not require a removal or remedial action. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified. The soil, which is excavated to install new sign, shall be used to fill holes left from the extraction of existing sign.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

  
Johnny Bassham  
Caretaker Site Officer  
By direction

Enclosure: Digging Permit #017 with comments

## **Charleston Caretaker Site Office Excavation Permit**

CSO Log Number = 017

Request Date = 05 July, 2001

Comments Date = 12 July, 2001

Location = Area west of the tennis courts and adjacent to Building 28 Wing 6, on Partridge Avenue.

### Environmental Review Comments

This project proposes the installation of 3 mobile homes located west of the tennis courts and adjacent to Building 28 wing 6, on Partridge Avenue.

The Navy has identified this location as an area where there has been a release of hazardous substance, but at concentrations that do not require removal or remedial action. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact Our office for disposal instructions.

. Note that no soil can leave the site without prior environmental testing. Point of contact is Johnny Bassham, CSO Environmental, at (843) 743-9985.

Requester: Fill Out Upper Half. Date: 7/5/01

Clearance is requested to proceed with work as follows:

Location: ADJACENT TO BUILDING 2816 Contract No: Borden Patrol Date: 7/5/01

Has work been staked out? Yes  No

**Facility/Work Involved**

Excavation  Pavements  Drainage Ditches  Railroad Tracks  Other

Overhead Lines  Utility  Communications  Underground Lines  Utility  Communications

**Method of Excavation**

Hand  Power Shovel  Ditcher  Auger  Other

Scope of Work (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

THE BORDEN PATROL WILL BE SETTING UP 3 MOBILE HOMES FOR A PRACTICAL EXERCISE AREA. THE AREA IS WEST OF THE TENNIS COURTS AND ADJACENT TO BUILDING 28 WING 6 DORM, WHICH ARE LOCATED ON PATRIDGE AVE. ALL 3 MOBILE HOMES WILL HAVE ELECTRICAL BUT ONLY ONE WILL HAVE SEWER AND WATER. SEE ATTACHED SITE MAP

Excavator(s) must establish locations and depths of utilities in work area prior to digging. Locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

Date Permit Required: ASAP Termination Date of Permit: SEPT 30, 2001

Signature (Requesting Official): [Signature] Date: 7/5/01 Phone Number: 743-8855 ext 152

Clearance Review/Routing (CSO Use Only)

CSO Log In Number/Date: 017

Points of Contact		Environmental
		Remarks/Action Signature and Date
Water		SouthDiv Code 02
Robin Harris - CPW	529-0653	SouthDiv Code 18
Sewer		CSO Environmental Compliance
Robert Judy - NCSD	764-3072	SWMU # _____ AOC # _____ Tank # _____ <u>[Signature]</u> 12/7/01
Electricity		BRAC Environmental Coordinator (BEC)
R. W. Smith - SCEAG	745-8013	Caretaker Site Office Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
		CSO Utility Manager (Signature and Date)

Electric Circuit 127

SGE&G Electric

Fence Line

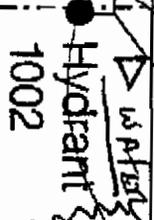
Provides New Entrance Through Existing Fence  
Fence Line

3" Pressure Sewer

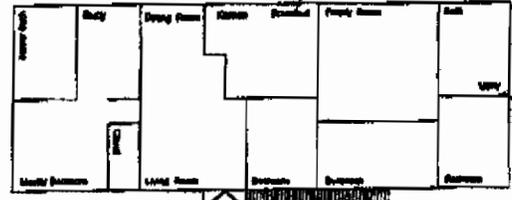
Fence Line



Fence Line



Mobile House No. 3  
Connect to all utilities.



Entrance Ramp Up

Parking

*Border Patrol*  
Practical Exercise Area  
Residential Complex

El Paso Circle

Entrance

Ramp Up

Parking

Entrance

Ramp Up

Mobile House No. 2  
Connect Electricity Only



Fence Line

Mobile House No. 1  
Connect Electricity Only

Fence Line



Entrance

Ramp Up

Parking

Fence Line

*ALL MOBILE HOMES WILL BE FITTED  
FOR TIE DOWNS AND TIE DOWNS WILL BE  
INSTALLED*



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

5090

Ser CSO/041

16 July, 2001

Mr. Sean P. McDonell, P.E.  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr.; McDonell

**SUBJECT: REQUEST TO EXTEND THE COMPUTER NETWORK AND TELEPHONE SYSTEM AT 1501 MANLEY AVENUE TO 1434 MANLEY AVENUE.**

This letter is in response to your letter dated July 09, 2001, which submitted a project to extend computer network and phone system from 1501 Manley Avenue to 1434 Manley Avenue, approximately 165LF underground 2" conduit.

The Navy has identified this to be an area where there has been a release of hazardous substance, but at concentrations that do not require removal or remedial actions. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual order, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

  
Johnny Bassham  
Caretaker Site Officer  
By direction

Enclosure: Digging Permit #018 with comments

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 018

Request Date = 09July, 2001

Comments Date = 16 July, 2001

Location = Approximately 165 LF from wiring closet at 1501 Manley Avenue to storage area at 1434 Manley Avenue.

### Environmental Review Comments

This project proposes to extend computer network and phone system located at 1501 Manley Avenue to 1434 Manley Avenue, approximately 165 LF.

The Navy has identified this location as an area where there has been a release of hazardous substance, but at concentrations that do not require removal or remedial action. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that Ertel and Creative Business Technologies, Inc. ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact Our office for disposal instructions.

Note that no soil can leave the site without prior environmental testing. Point of contact is Johnny Bassham, CSO Environmental, at (843) 743-9985.

**CREATIVE BUSINESS TECHNOLOGIES**  
INCORPORATED  
*One Source Business Technology Integration and Support*

Alteration Request to extend the existing computer network and phone system of Lowcounty AIDS Services located at 1501 Manley Avenue to 1434 Manley Avenue

John Defruscio of Ertel will bore approximately 165' underneath Manley Avenue between the two buildings and install a 2" i.d. poly conduit underground. The conduit will be stubbed-out outdoors just outside the existing wiring closet at 1501 Manley and outdoors across the street just outside the storage area on the other side of the carport at 1434 Manley.

Creative Business Technologies, Inc. (CBT) will install up to four (4) Category 5 (Cat5) cables in the conduit. CBT will provide and install additional conduit, fittings, junction boxes, etc. as necessary above ground starting at the underground conduit and extending in to the interior of the buildings.

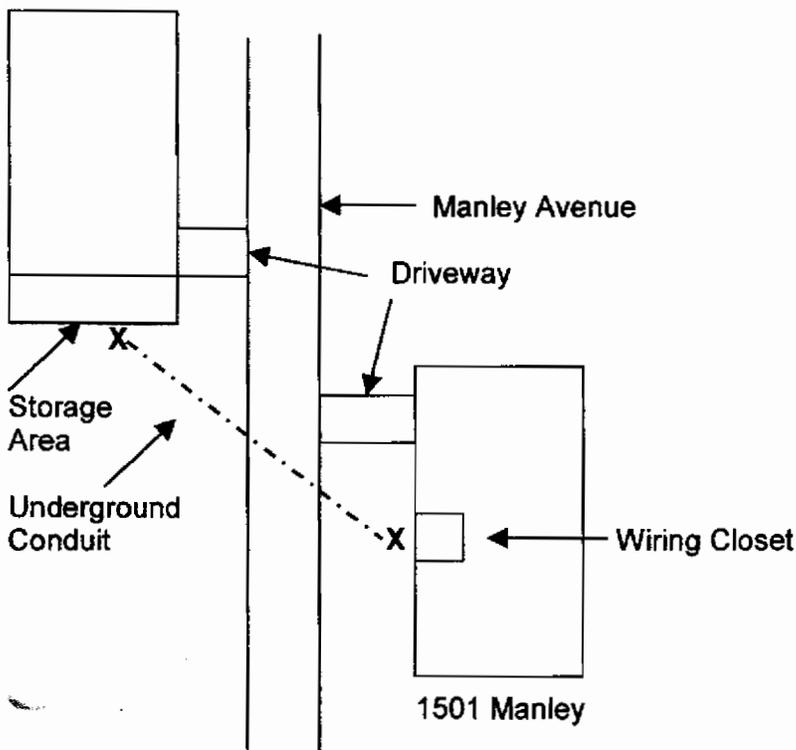
One end of one Cat5 cable will be terminated in the existing wiring closet at 1501 Manley and tied in to the existing 16-port network switch. The other end of the cable will be terminated in the storage area on the other side of the carport at 1434 Manley and tied in to an 8-port hub.

Another Cat5 cable will be used to extend the existing phone system from 1501 to 1434.

Sketch:

1434 Manley

Ted Rodden



**Charleston Caretaker Site Office Excavation Permit**

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

<b>Location:</b> <span style="font-size: 1.2em; font-family: cursive;">1501 / 1423 MANLEY AVE.</span>	<b>Contract No:</b> <span style="font-size: 1.2em; font-family: cursive;">LOWCOUNTRY AIDS SVCS</span>	<b>Date:</b> <span style="font-size: 1.2em; font-family: cursive;">9 JUL 01</span>
----------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

Is work been staked out?      Yes      No

**Facility/Work Involved**

Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	Other _____
<b>Overhead Lines</b>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<b>Underground Lines</b>	Utility <input type="checkbox"/>
Hand <input type="checkbox"/>	Power Shovel <input type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>	Other <input checked="" type="checkbox"/> <span style="font-size: 1.2em; font-family: cursive;">BORING MACHINE</span>

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required</b> <span style="font-size: 1.2em; font-family: cursive;">ASAP</span>	<b>Termination Date of Permit</b> <span style="font-size: 1.2em; font-family: cursive;">01 DEC 01</span>
<b>Signature (Requesting Official)</b> <span style="font-size: 1.2em; font-family: cursive;">[Signature]</span>	<b>Date</b> <span style="font-size: 1.2em; font-family: cursive;">7/9/01</span> <b>Phone Number</b> <span style="font-size: 1.2em; font-family: cursive;">747-0010</span>

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date

0182

Points of Contact	Environmental
	Remarks/Action      Signature and Date
Water  Robert Sagaser - CPW      529-0653	SouthDiv Code 02  SouthDiv Code 18
Sewer  Robert Judy - NCSD      764-3072	CSO Environmental Compliance SWMU # _____ AOC # _____ Tank # _____  BRAC Environmental Coordinator (BEC)
Electricity  R. W. Smith - SCE&G      745-6381	<div style="text-align: right; font-size: 1.5em; font-family: cursive;"> <span style="font-size: 1.2em;">[Signature]</span>                          17/07/01                     </div>
<p align="center"><b>Caretaker Site Office</b></p> <p align="center">Permit Approved?    <input checked="" type="checkbox"/> YES    <input type="checkbox"/> NO</p>	
<p align="center">CSO Utility Manager      (Signature and Date)</p>	



**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

5090

Ser CSO/044

24 July, 2001

Mr. Sean P. McDonell, P.E.  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell

**SUBJECT: REQUEST TO PLACE A COMMERCIAL DOCK FACILITIES NEAR BUILDING 682.**

This letter is in response to your letter dated July 20, 2001, which submitted a project for Charleston Marine Services to place commercial dock facilities near Building 682.

The Navy grants its approval of the placement of all commercial dock facilities, proposed by your tenant in the vicinity of Building 682 and identified on Sabine & Waters, Inc. sketch dated 19 July, 01.

The Navy has identified this to be an area where there has been a release of hazardous substance, but at concentrations that do not require removal or remedial actions. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

A handwritten signature in cursive script that reads "Thomas F. Fressilli".

Thomas F Fressilli  
Caretaker Site Officer  
By direction

Enclosure: Digging Permit #019 with comments

## Charleston Caretaker Site Office Excavation Permit

CSO Log Number = 018

Request Date = 09 July, 2001

Comments Date = 16 July, 2001

Location = East of Thompson Avenue near Building 682.

### Environmental Review Comments

This project proposes to place a commercial dock facilities near Building 682.

The Navy has identified this location as an area where there has been a release of hazardous substance, but at concentrations that do not require removal or remedial action. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact Our office for disposal instructions.

Note that no soil can leave the site without prior environmental testing. Point of contact is Johnny Bassham, CSO Environmental, at (843) 743-9985.

**Charleston Caretaker Site Office Excavation Permit**

Requester: Fill Out Upper Half, Date & Sign

**Clearance is requested to proceed with work as follows:**

<b>Location:</b> <i>BUILDING 682 WATERFRONT</i>	<b>Contract No:</b> <i>CHAS. MARINE SVC.</i>	<b>Date:</b> <i>7/24/01</i>
----------------------------------------------------	-------------------------------------------------	--------------------------------

<b>as work been staked out?</b>		<b>Yes</b>	<b>No</b>
<b>Facility/Work Involved</b>			
Excavation <input checked="" type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>
<u>Overhead Lines</u>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<u>Underground Lines</u>
Hand <input type="checkbox"/>	Power Shovel <input type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>
<b>Method of Excavation</b>			
Other _____			

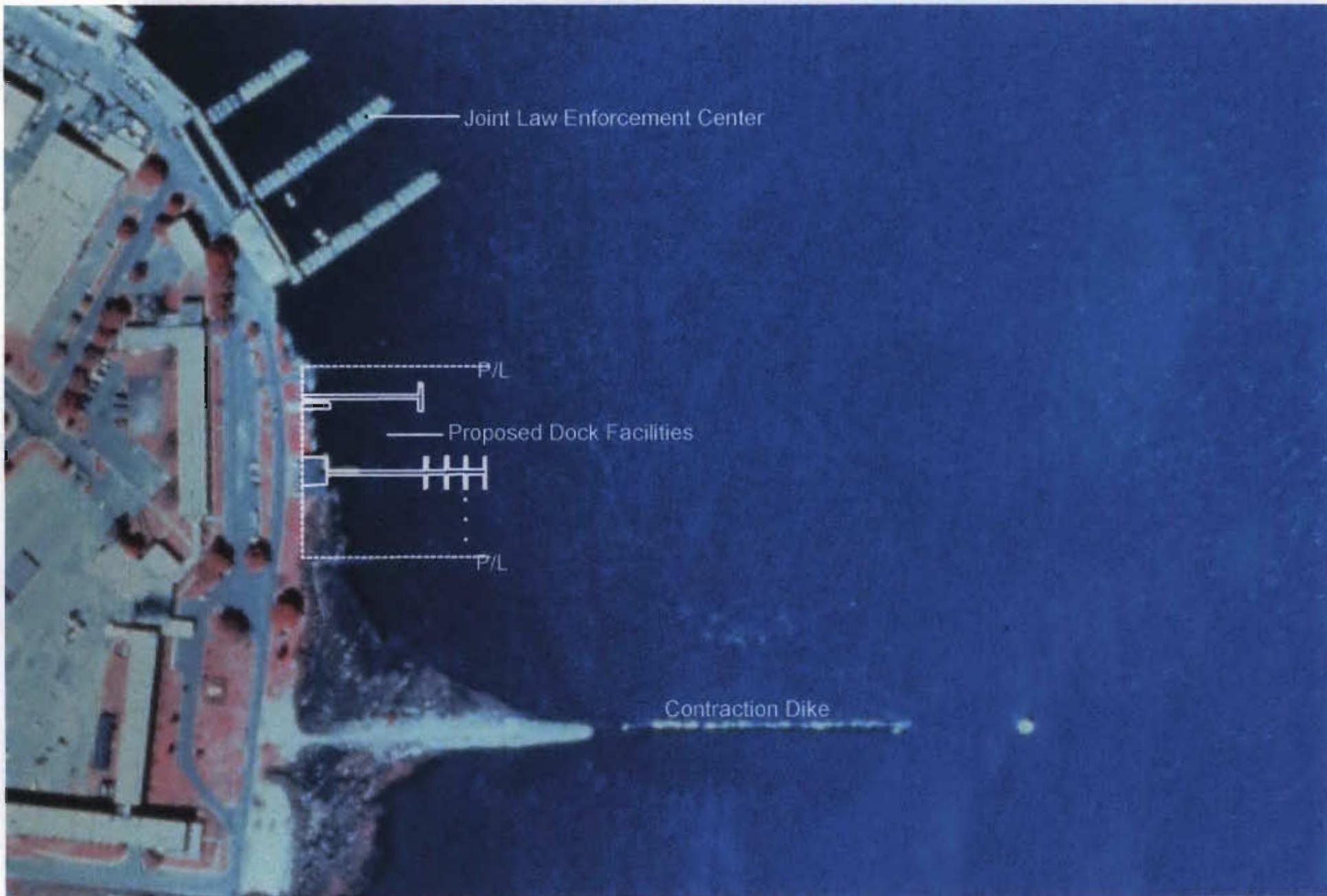
**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

*PLEASE SEE CHAS. MARINE SERVICES REQUEST TO INSTALL PIER FACILITIES NEAR BUILDING 682 WHICH WAS FORWARDED TO THE SOUTH DIV CSO ON 7/20/01.*

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

<b>Date Permit Required</b> <i>ASAP</i>	<b>Termination Date of Permit</b> <i>31 DEC 01</i>
<b>Signature (Requesting Official)</b> <i>[Signature]</i>	<b>Date</b> <i>7/24/01</i>
	<b>Phone Number</b> <i>747-0010</i>

<b>Clearance Review/Routing (CSO Use Only)</b>		<b>CSO Log In Number/Date</b> <i>019</i>
<b>Points of Contact</b>		<b>Environmental</b>
<b>Water</b>		<b>Remarks/Action</b>
Robert Sagaser - CPW	529-0653	SouthDiv Code 02
		SouthDiv Code 18
<b>Sewer</b>		<b>Signature and Date</b>
Robert Judy - NCSD	764-3072	<i>Thomas F. Fusilli</i> <i>25 July 01</i>
<b>Electricity</b>		CSO Environmental Compliance
R. W. Smith - SCE&G	745-6381	SWMU # _____ AOC # _____ Tank # _____
		BRAC Environmental Coordinator (BEC)
		<b>Caretaker Site Office</b>
		Permit Approved? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
		CSO Utility Manager _____ (Signature and Date)



**SABINE & WATERS, INC.**  
 ENVIRONMENTAL LAND MANAGEMENT CONSULTANTS  
 P.O. Box 977  
 Summerville, SC 29486  
 (843) 871-5400  
 (843) 871-2050 fax  
 bsabine@earthlink.net

Date: 06/19/01  
 Created by: JDO  
 Data Source: 1999 MAPP  
 Copyright Sabine & Waters Inc.

Serial / Revision / Application

**Charleston Marine Services Commercial Dock Facilities  
 Site Plan  
 July 19, 2001**



Disclaimer: This map is a graphic representation of data obtained from various sources. All efforts have been made to warrant the accuracy of this map. However, Sabine & Waters, Inc. disclaims all responsibility and liability for the use of this map.





**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
P.O. BOX 180010  
2155 EAGLE DRIVE  
NORTH CHARLESTON, S.C. 29419-9010

5090  
Ser CSO/045  
27 July, 2001

Mr. Richard W. Smith  
Electric Distribution Services  
1312 C. B. Lane, Building 1885  
North Charleston, SC 29405

Dear Mr. Smith

**SUBJECT: S.C.E.&G. REQUEST TO INSTALL UNDERGROUND ELECTRICAL DISTRIBUTION SYSTEM FROM BUILDING 198 TO BUILDING M82.**

This letter is in response to your letter dated 19 July 2001, which submitted a project to install underground electrical distribution system from Building 198 Southwest on Truxtun Avenue to Building M82, for our consideration and approval.

The Navy has identified the majority of this location is in an area where there has been a release of hazardous substance, but at concentrations that do not require removal or remedial action. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. The area around Building M82 is with-in AOC-519 where a release of hazardous substance has occurred and required actions have not been implemented. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

The enclosed digging permit is approved; however, please note our comments attached to the digging permit. Any soil excavated during this project should be stored on site and returned to the excavation after work is done. No soil can leave the base without environmental testing. If excess soil is not able to be reused and needs to be disposed of, please contact our office for disposal instructions.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

A handwritten signature in black ink that reads "Thomas F. Fressilli".

Thomas F. Fressilli  
Caretaker Site Officer

Enclosure: Digging Permit #020 with comments

## **Charleston Caretaker Site Office Excavation Permit**

CSO Log Number = 020

Request Date = 24 July, 2001

Comments Date = 26 July, 2001

Location = Southwest on Truxtun Avenue, between Buildings 198 and M82.

### **Environmental Review Comments**

This project proposes to place underground electrical distribution system from Building 198 Southwest on Truxtun Avenue to Building M82.

The Navy has identified the majority of this location is in an area where there has been a release of hazardous substance, but at concentrations that do not require removal or remedial action. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure the necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. The area around Building M82 is with-in AOC-519 where a release of hazardous substance has occurred and required actions have not been implemented. Digging in this area is not prohibited, but as always, caution should be exercised. It is recommended that the Contractor ensure necessary precautions are taken to minimize dermal exposure to any workers who may come in contact with the soil. If a worker feels during any excavation that there is suspect soil or an unusual odor, work shall be stopped immediately and the Caretaker Site Office shall be notified.

No soil shall leave the base without permission. Any soil excavated during this project should be stored on site and returned to the excavation after the work is done. Sidewalk and pavement debris shall be disposed of as construction waste. If excess soil is not able to be reused and needs to be disposed, please contact Our office for disposal instructions.

. Note that no soil can leave the site without prior environmental testing. Point of contact is Johnny Bassham, CSO Environmental, at (843) 743-9985.

## Charleston Caretaker Site Office Excavation Permit

Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

Location: <i>Tru &amp; Ton Ave By BLD m82719d</i>	Contract No: <i>S.C.E &amp; G</i>	Date: <i>07-19-01</i>
------------------------------------------------------	--------------------------------------	--------------------------

Has work been staked out?    **Yes**    **No**

Facility/Work Involved

Excavation <input type="checkbox"/>	Pavements <input type="checkbox"/>	Drainage Ditches <input type="checkbox"/>	Railroad Tracks <input type="checkbox"/>	Other _____ <input type="checkbox"/>
<u>Overhead Lines</u>	Utility <input type="checkbox"/>	Communications <input type="checkbox"/>	<u>Underground Lines</u>	Utility <input checked="" type="checkbox"/>
				Communications <input type="checkbox"/>

Method of Excavation

Hand <input type="checkbox"/>	Power Shovel <input checked="" type="checkbox"/>	Ditcher <input type="checkbox"/>	Auger <input type="checkbox"/>	Other _____ <input type="checkbox"/>
----------------------------------	-----------------------------------------------------	-------------------------------------	-----------------------------------	-----------------------------------------

**Scope of Work** (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

*See sketch*

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

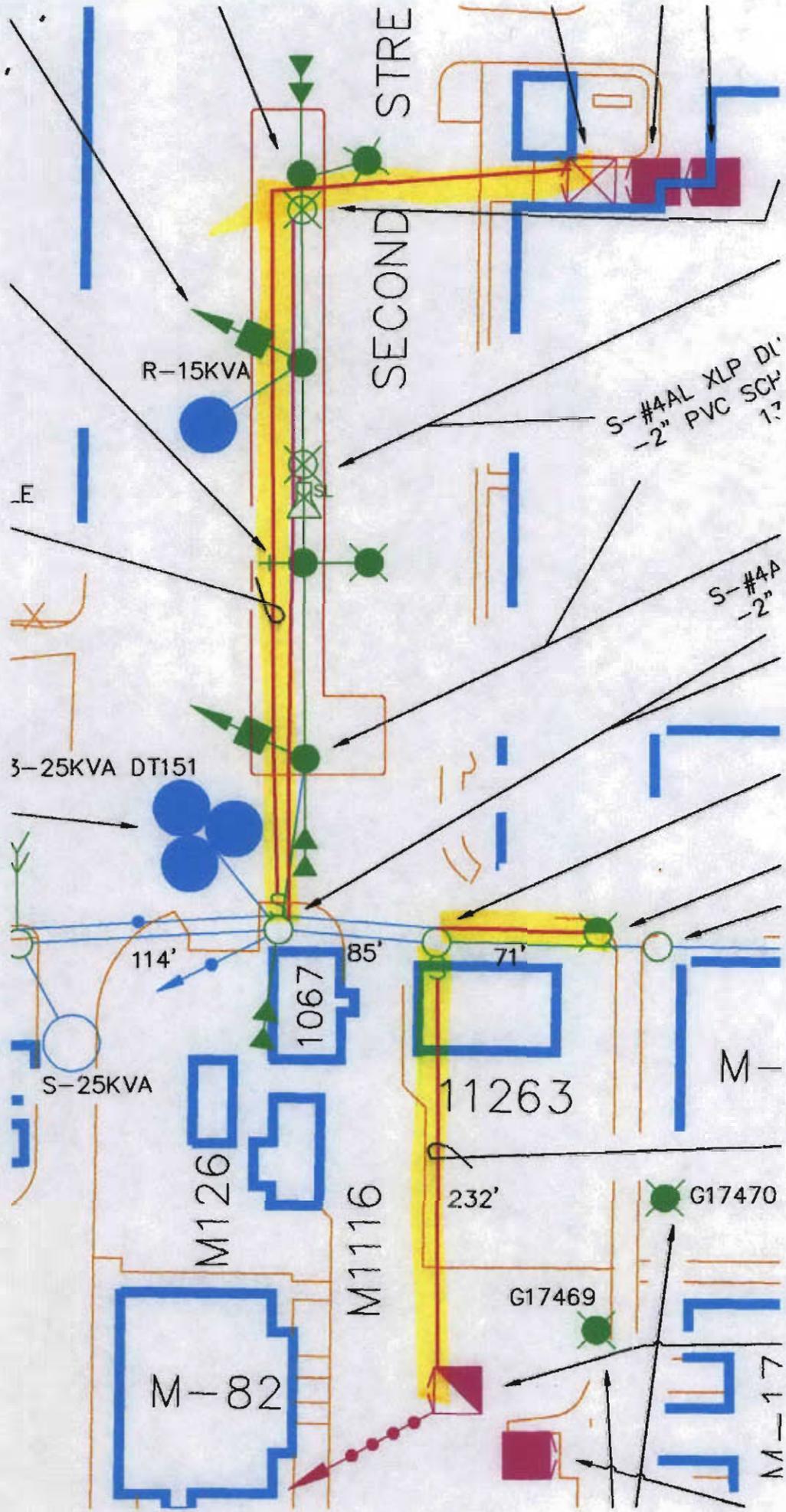
Date Permit Required <i>07-24-01</i>	Termination Date of Permit <i>08-30-01</i>	
Signature (Requesting Official) <i>Richard A. Smith</i>	Date <i>07-19-01</i>	Phone Number <i>745-6381</i>

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date

*020*

Points of Contact		Environmental	
		Remarks/Action	Signature and Date
Water		SouthDiv Code 02	
Robin Harris - CPW	529-0653	SouthDiv Code 18	
Sewer		CSO Environmental Compliance	
Robert Judy - NCSD	764-3072	<i>ANC-519</i>	<i>J.F. Fresilli 7/27/01</i>
Electricity		BRAC Environmental Coordinator (BEC)	
R. W. Smith - SCE&G	745-6013		
		Caretaker Site Office	
		Permit Approved?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
		CSO Utility Manager	(Signature and Date)



Requester: Fill Out Upper Half, Date & Sign

Clearance is requested to proceed with work as follows:

- Location: **BUILDING 672 AREA** Contract No: **SANI-TECH** Date: **7/24/01**

Has work been staked out? Yes  No

**Facility/Work Involved**

Excavation  Pavements  Drainage Ditches  Railroad Tracks  Other   
 Overhead Lines  Utility  Communications  Underground Lines  Utility  Communications

**Method of Excavation**

Hand  Power Shovel  Ditcher  Auger  Other

Scope of Work (Depth, width, length, location & sketch as applicable, road closure, interruption of services, etc.)

SEE ATTACHED DRAWING + COVER LETTER DATED 7/6/01 FROM SANI-TECH TO INSTALL AN INDUSTRIAL WASTEWATER TREATMENT PLANT.

EXCAVATION CAN NOT BE PERMITTED DUE TO SUMM#9. PROPOSED FACILITY IMPROVEMENT CAN NOT BE APPROVED DUE TO REAL ESTATE AND ENVIRONMENTAL ISSUES, AS ADDRESSED IN SOUTH DIV LTR. TO CMCRA (MR. JACK SPROTT), 11011 RE 13/BUB OF 16 AUG. 2001. SEE REVERSE SIDE FOR FURTHER INSTRUCTIONS

Excavator(s) must establish locations and depths of utilities in work area prior to digging, locations of utilities, as shown on drawing(s), are approximate and must be field verified by hand digging, cable/pipe locators or other approved methods.

Date Permit Required: **ASAP** Termination Date of Permit: **31 DEC 01**  
 Signature (Requesting Official): **ANDREW UGLOW** Date: **7/24/01** Phone Number: **744-0406**

**Clearance Review/Routing (CSO Use Only)**

CSO Log In Number/Date

**021/24 JUL 2001**

Points of Contact		Environmental
		Remarks/Action Signature and Date
Water		South Div Code 02
Robert Sagaser - CPW	529-0653	South Div Code 18
Sewer		CSO Environmental Compliance
Robert Judy - NCSD	764-3072	SWMU # <u>9</u> AOC # _____ Tank # _____
Electricity		BRAC Environmental Coordinator (BEC)
R. W. Smith - SCE&G	745-6381	Disapproved <b>m.a. h. 8/17/01</b>

Caretaker Site Office

Permit Approved?  YES  NO

**Thomas F. Fresilli, 7 AUG 01**  
 CSO Utility Manager (Signature and Date)

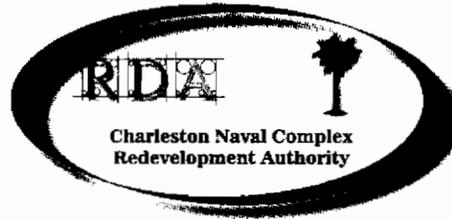
EXCAVATION ACTIVITIES, ALREADY UNDERTAKEN AT THIS SITE W/O NAVY AUTHORIZATION, MUST BE REVERSED. MATERIALS EXCAVATED FROM THIS SITE MUST BE PLACED BACK IN THE AREA EXCAVATED AND BACKFILLED OVER WITH COVER MATERIALS THAT MATCH WHAT WAS EXISTING PRIOR TO EXCAVATION TAKING PLACE. WORKERS, UTILIZED TO PERFORM THESE CORRECTIVE ACTIONS, MUST BE QUALIFIED FOR WORKING AT HAZARDOUS WASTE SITES, IN ACCORDANCE WITH OSHA REGULATIONS FOUND AT 29CFR 1910.120. CONTACT CSO IF FURTHER GUIDANCE IS REQUIRED.

**James C. Bryan**  
*Chairman*

**Lonnie Hamilton, III**  
*Vice Chairman*

**Ronnie M. Givens**  
*Secretary/Treasurer*

**James M. Deaton**  
*Assistant Secretary/Treasurer*



**Susan K. Dunn**

**James S. Minor, Jr.**

**Eugene R. Ott**

**Jack C. Sprott**  
*Executive Director*

July 24, 2001

Mr. Tom Fressilli  
Charleston Caretaker Site Officer  
Southern Division, Naval Facilities Engineering Command  
P. O. Box 190010  
North Charleston, SC 29419-9010

**Subject: SANI-TECH ENVIRONMENTAL REQUEST TO CONSTRUCT AN INDUSTRIAL WASTEWATER TREATMENT FACILITY**

Dear Tom:

We are forwarding a request from Sani-Tech Environmental to construct an industrial wastewater treatment plant on their leased property at Building 672. Unfortunately, they have only submitted this one drawing that shows very little construction detail and they have provided no information regarding regulatory approval of their plans. They submitted this request to us on Monday, July 23, 2001 and decided to start digging on that day with no approvals in place. I understand that they have contacted Mr. Rick Nielsen in your office to inform him that they had discovered some contamination. They contacted us around 4:00 PM to inform us of the same thing and we instructed them to stop digging immediately.

This plan is being forwarded to you with a digging permit request to obtain your environmental comments. Prior to approval of this project, we will ensure that more acceptable construction drawings and all regulatory approvals are received by our office.

Sincerely,

Sean P. McDonell, P. E.  
Engineering Director

/enclosure



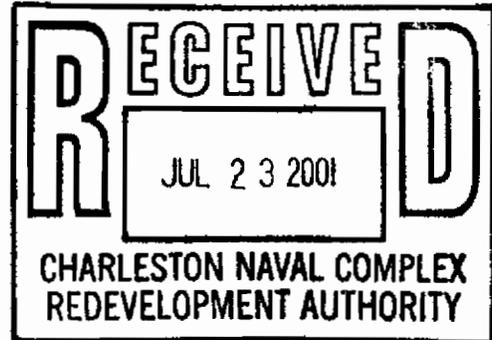
# SANI-TECH ENVIRONMENT, INC.

July 6, 2001

Charleston Naval Complex Redevelopment Authority  
Attn: Mr. Shawn McDonald  
1360 Truxton Ave., Suite 300  
North Charleston, SC 29405

Re: New construction at 2051 Bainbridge Ave.

Dear Mr. McDonald,



It is Sani-Tech Environment's (Sani-Tech) intent to construct an industrial wastewater treatment plant on site at Building 672, located at 2051 Bainbridge Ave. The outside structures will consist of one 15,000 gallon oily water storage tank and six tanks with a total capacity of 90,000 gallons, with the largest tank holding 30,000 gallons. Containment walls will be erected around the perimeter of each tank as follows: One five foot (5') wall will surround the oily water storage tank and one four foot (4') wall will enclose the other storage tanks. For your convenience, the plans for the above described construction are enclosed.

The purpose of this construction is to provide Sani-Tech the capability to process and dispose of bilge water, oily wastewater and metal bearing waste in accordance with all state and federal regulations. The process Sani-Tech has chosen involves extracting and neutralizing the contaminants, and ensuring that the treated water and extracted material is safe for proper disposal.

If you have any questions or concerns regarding this matter, please feel free to contact me. Thank you for your attention and cooperation in advance.

Sincerely,

Andrew Uglow



2600 Bull Street  
Columbia, SC 29201-1708

JUN 06 2001

June 01, 2001

Jimmy D. Honeycutt  
ALBRECHT & ASSOCIATES, INC.  
P. O. BOX 189  
MT. PLEASANT, SC 29465

RE: SANI-TECH/NEW PRETREATMENT SYSTEM  
CHARLESTON COUNTY

Dear Mr. Honeycutt:

The Federal/Energy/Pretreatment Section received a submittal on the referenced project on 05/24/2001. An administrative review has been conducted and it appears we have a complete administrative package for processing. Also, we have requested certification and/or comments from the entities involved in our permitting process such as the local Council of Governments, DHEC's Office of Ocean and Coastal Resource Management, and our District Office.

At this time, it is estimated it will be about three (3) weeks before the project is assigned to a member of the section for technical review. We try to handle projects in chronological order based on the date received. If you have legitimate reasons why your project should be considered a very high priority by the Division, please call us. We will attempt to address your concerns taking into account our workload priorities.

Thank you for your complete submittal. If you have any questions please call me at (803) 898-3982.

Sincerely,

*Melissa J. King*  
Melissa King, P.E., Manager  
Federal/Energy/Pretreatment Section  
Industrial, Agricultural, & Storm Water Permitting Division  
Bureau of Water



2600 Bull Street  
Columbia, SC 29201-1708

June 01, 2001

01-117

TO: Berkeley-Charleston-Dorchester COG

SUBJECT: Request for 208/201 Plan Conformance Certification

Please review the following project and complete Sections 10 & 11

1. Project Name: SANI-TECH/NEW PRETREATMENT SYSTEM, County: CHARLESTON
2. General Location: See attached map
3. Type of Action for Review: New Construction Permit Request
4. Type Project: New pretreatment system
5. Type Waste: Process Volume (GPD): 10000
6. Disposal Method: NCSD/FELIX C DAVIS WWTP (NPDES SC0024783)
7. Consultant: ALBRECHT & ASSOCIATES, INC./JIMMY HONEYCUTT, Phone: 803/745-0234
8. DHEC contact: Melissa King Phone: (803) 898-3236
9. This project (is) (is not) in conformance with the 208 Water Quality Management Plan.
10. Comments: (use back if necessary)

\_\_\_\_\_  
Signature of Certifying Officer and Title

Date \_\_\_\_\_

Return with comments to:  
 Federal/Energy/Pretreatment Section  
 Industrial, Agricultural, & Storm Water Permitting Division  
 S.C. Department of Health & Environmental Control  
 2600 Bull Street  
 Columbia, S.C. 29201

# North Charleston Sewer District

7225 STALL ROAD / P.O. BOX 63009

NORTH CHARLESTON, SC 29419

Telephone (843) 764-3072

Fax (843) 764-2655

## NON-DOMESTIC WASTEWATER DISCHARGE PERMIT

PERMIT NO. 2092

In accordance with all terms and conditions of the North Charleston Sewer District's (District) Sewer Use Resolutions, the Federal Clean Water Act (PL 95-217) and the General Pretreatment Regulations for Existing and New Sources of Pollution (40 CFR Part 403), and any future supplements and/or changes thereto, permission is hereby granted to:

<u>Sani Tech Environment LLC</u> (Industry Name)	<u>P.O. Box 71619, N. Charleston, SC 29415</u> (Mailing Address)
<u>562998 / 4959</u> (SIC Number(s))	<u>2051 Bainbridge Rd., N. Charleston, SC 29405</u> (Location Address)

For the discharge of non-domestic wastewater into the District's sewer lines at 2051 Bainbridge Rd., N. Charleston, SC 29405

This permit is granted in accordance with:

1. The Industrial Wastewater Survey Questionnaire/Discharge Permit Application, dated May 4, 2001.
2. Any plans, specifications, and/or other data submitted to and approved by the District and on file in the District's offices.
3. A Permit to Operate issued by SCDHEC dated \_\_\_\_\_; and
4. The effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on \_\_\_\_\_, 20\_\_.

This permit and authorization to discharge shall expire at midnight on \_\_\_\_\_, 20\_\_; unless other conditions supersede, and thus, revoke or modify this expiration date.

\_\_\_\_\_  
Jimmy L. Green, District Manager  
North Charleston Sewer District

\_\_\_\_\_  
Date

**PART I**  
**EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

During the period beginning on the effective date of this permit and lasting through the expiration date, discharge shall be limited and monitored by the permittee as follows:

**OUTFALL 001**  
CWT Subcategory D

<u>Parameters</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Maximum mg/l(lbs/day)</u>	<u>Monthly Average mg/l(lbs/day)</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
<u>Antimony</u>	<u>0.237(0.0419)</u>	<u>0.141(0.0118)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Arsenic</u>	<u>0.100(0.0177)</u>	<u>0.064(0.00534)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Barium</u>	<u>0.427(0.0755)</u>	<u>0.281(0.0234)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Cadmium</u>	<u>0.474(0.0838)</u>	<u>0.0962(0.00802)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Chromium</u>	<u>0.746(0.132)</u>	<u>0.323(0.0269)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Cobalt</u>	<u>0.192(0.0339)</u>	<u>0.124(0.0103)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Copper</u>	<u>0.500(0.0884)</u>	<u>0.242(0.0202)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Lead</u>	<u>0.300(0.0530)</u>	<u>0.160(0.0133)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Mercury</u>	<u>0.00234(0.000414)</u>	<u>0.000739(0.0000616)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Molybdenum</u>	<u>3.50 (0.619)</u>	<u>2.09 (0.174)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Nickel</u>	<u>2.00 (0.354)</u>	<u>0.735 (0.0613)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Selenium</u>	<u>1.00 (0.177)</u>	<u>0.249 (0.0208)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Silver</u>	<u>0.120(0.0212)</u>	<u>0.0351(0.00293)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Tin</u>	<u>0.409(0.0723)</u>	<u>0.120(0.100)</u>	<u>Monthly</u>	<u>Grab</u>

<u>Parameters</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Maximum mg/l(lbs/day)</u>	<u>Monthly Average mg/l(lbs/day)</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
<u>Titanium</u>	<u>0.0947(0.0167)</u>	<u>0.0618(0.00515)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Vanadium</u>	<u>0.218(0.0385)</u>	<u>0.0662(0.00552)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Zinc</u>	<u>2.87 (0.507)</u>	<u>0.641 (0.0535)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Cyanide</u>	<u>0.300(0.0530)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Total Phenols</u>	<u>4.00 (0.707)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>BTEX</u>	<u>10.00 (1.77)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Chloro- Benzene</u>	<u>5.00 (0.884)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>1,2-Dichloro- Benzene</u>	<u>5.00 (0.884)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>bis(2-Ethylhexyl) Phthalate</u>	<u>0.215(0.0380)</u>	<u>0.101(0.00842)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Carbazole</u>	<u>0.598(0.106)</u>	<u>0.276(0.0230)</u>	<u>Monthly</u>	<u>Grab</u>
<u>n-Decane</u>	<u>0.948(0.168)</u>	<u>0.437(0.0364)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Fluoranthene</u>	<u>0.0537(0.00949)</u>	<u>0.0268(0.00224)</u>	<u>Monthly</u>	<u>Grab</u>
<u>n-Octadecane</u>	<u>0.589(0.104)</u>	<u>0.302(0.0252)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Naphthalene</u>	<u>5.00 (0.884)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Oil &amp; Grease*</u>	<u>150 (26.5)</u>	<u>100 (8.34)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Flow</u>	<u>21,200 gpd</u>	<u>10,000 gpd</u>	<u>Daily</u>	<u>Meter</u>

The pH of the discharge shall not be less than 6.5 nor greater than 10.5 standard units and shall be monitored monthly by grab sample.

\*O&G is to be analyzed by Method 413.1 until SCDHEC certifies a lab for SGT-HEM.

This outfall is subject to Federal Regulation 40 CFR Part 437 Centralized Waste Treatment.

**OUTFALL 002**  
CWT Subcategory C

<u>Parameters</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Maximum mg/l(lbs/day)</u>	<u>Monthly Average mg/l(lbs/day)</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
<u>Antimony</u>	<u>2.00(0.0834)</u>	<u>1.190(0.0298)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Arsenic</u>	<u>0.100(0.00417)</u>	<u>0.064(0.00160)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Barium</u>	<u>2.00(0.0834)</u>	<u>1.316(0.0329)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Cadmium</u>	<u>1.00(0.0417)</u>	<u>0.203(0.00508)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Chromium</u>	<u>5.00(0.209)</u>	<u>2.577(0.0645)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Copper</u>	<u>2.00(0.0834)</u>	<u>1.481(0.0371)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Lead</u>	<u>0.300(0.0125)</u>	<u>0.233(0.00583)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Mercury</u>	<u>0.005(0.000209)</u>	<u>0.002(0.00005)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Molybdenum</u>	<u>1.01(0.0421)</u>	<u>0.965(0.0241)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Nickel</u>	<u>2.00(0.0834)</u>	<u>0.735(0.0184)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Selenium</u>	<u>1.00(0.0417)</u>	<u>0.249(0.00623)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Silver</u>	<u>0.400(0.0167)</u>	<u>0.1170.00293)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Zinc</u>	<u>5.00(0.209)</u>	<u>1.116(0.0279)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Cyanide</u>	<u>0.300(0.0125)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Total Phenols</u>	<u>4.00(0.167)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Benzene</u>	<u>5.00(0.209)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Toluene</u>	<u>5.00(0.209)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Trichloro- Ethene</u>	<u>1.00(0.0417)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>

<u>Parameters</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Maximum mg/l(lbs/day)</u>	<u>Monthly Average mg/l(lbs/day)</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
<u>Oil &amp; Grease</u>	<u>150 (6.26)</u>	<u>100 (2.50)</u>	<u>Monthly</u>	<u>Grab</u>
<u>2,3-Dichloro- Aniline</u>	<u>0.0731(0.00305)</u>	<u>0.0361(0.000903)</u>	<u>Monthly</u>	<u>Grab</u>
<u>o-Cresol</u>	<u>1.92(0.0801)</u>	<u>0.561(0.0140)</u>	<u>Monthly</u>	<u>Grab</u>
<u>p-Cresol</u>	<u>0.698(0.0291)</u>	<u>0.205(0.00513)</u>	<u>Monthly</u>	<u>Grab</u>
<u>2,4,6-Trichloro- Phenol</u>	<u>0.155(0.00646)</u>	<u>0.105(0.00263)</u>	<u>Monthly</u>	<u>Grab</u>
<u>Diphenyl Ether</u>	<u>1.00(0.0417)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Dichloro- Methane</u>	<u>1.00(0.0417)</u>	<u>NA</u>	<u>Monthly</u>	<u>Grab</u>
<u>Flow</u>	<u>5,000 gpd</u>	<u>3,000 gpd</u>	<u>Daily</u>	<u>Meter</u>

The pH of the discharge shall not be less than 6.5 nor greater than 10.5 standard units and shall be monitored monthly by grab sample.

## **PART II** **SELF-MONITORING AND REPORTING REQUIREMENTS**

### **A. Representative Sampling:**

Samples and measurements shall be taken as required in Item I above, and shall be representative of the volume and nature of "normal" daily operations.

### **B. Sampling Location:**

The Permittee must obtain District approval of the sampling point location prior to initiation of self-monitoring.

**Approved sampling point location:** \_\_\_\_\_

C. Reporting:

Self-Monitoring shall be summarized Monthly (Reporting Period) and reported on a Significant Industrial Wastewater Discharge Monitoring form provided by the District.

Self-Monitoring reports shall be postmarked no later than the 10th day of the month following the completed reporting month. The first report is due on \_\_\_\_\_.

Industrial Wastewater Discharge Monitoring Forms, and all other reports required herein, shall be signed by an authorized representative and submitted to:

North Charleston Sewer District  
ATTN: Industrial Pretreatment  
P.O. Box 63009  
North Charleston, SC 29419

D. Definitions:

1. Monthly averages, for reporting purposes, shall be calculated as follows:
  - a. For monthly reporting, the monthly average shall be the arithmetic mean of all samples collected during the report month.
  - b. For quarterly reporting periods or other periods greater than one month, there shall be separate reports for each month. The monthly average shall be the arithmetic mean of all samples collected during that month. The daily maximum shall be the highest value during that month.
2. Arithmetic Mean: of any set of values is the summation of the individual values divided by the number of individual values.
3. Average daily flow limit expressed in this permit is the 24 hour average flow. It is determined as the arithmetic mean of total daily flow recorded during the reporting period.
4. Composite samples: One of the following four types of composite samples as defined is specified within this permit:
  - a. An influent or effluent portion collected continuously over a specified period of time at a rate proportional to the flow.
  - b. A combination of not less than 8 influent or effluent grab samples collected at regular (equal) intervals over a specified period of time, properly preserved, and composited by increasing the volume of each aliquot in proportion to flow. If continuous flow measurement is not used to composite in proportion to flow, the following method will be used:

Take an instantaneous flow measurement each time a grab sample is collected. At the end of the sampling period, sum the instantaneous flow measurements to obtain a total flow to determine the partial amount (percentage) of each grab sample to be combined to obtain the composite sample.

- c. A combination of not less than 8 influent or effluent grab samples of equal volume but at variable time intervals that are inversely proportional to the volume of the flow. That is, the time interval between aliquots is reduced as the volume of flow increases.
- d. A combination of not less than 8 influent or effluent grab samples of constant (equal) volume collected at regular (equal) time intervals over a specified period of time, while being properly preserved.

Continuous flow or the sum of instantaneous flows measured and averaged for the specified compositing time period shall be used with composite sample results to calculate quantity.

- 5. Grab Sample: An individual discrete or single influent or effluent portion of at least 100 milliliters collected at a time representative of the discharge and over a period not exceeding 15 minutes and retained separately for analysis. Instantaneous flow measured at the time of grab sample collection shall be used to calculate quantity.

E. Test Procedures:

Test procedures for the analysis of pollutants shall conform to Regulation 40 CFR Part 136 published pursuant to Section 304(g) of the Federal Water Pollution Control Act, as amended. When procedures are not contained in Part 136, sampling and analysis shall be performed in accordance with the procedures set forth in the EPA publication, "Sampling and Analysis Procedures for Screening of Industrial Effluents for Priority Pollutants", April 1977, and any amendments to this publication or any other applicable sampling and analytical procedures approved by the District. All tests must be performed by a S.C. Department of Health and Environmental Control (SCDHEC) Certified laboratory.

F. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record, at a minimum, the following information:

1. The exact place, date, and time of sampling;
2. The dates the analyses were performed;
3. The persons who performed the analyses (including lab name and identification number);

4. The analytical techniques or methods used; and
5. The results of such analyses.

G. Additional Monitoring by Permittee:

If the Permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified herein, the results of such monitoring shall be included in the calculation and reporting of the values required in the Industrial Wastewater Discharge Monitoring Form. Such increased frequency shall also be reported.

H. Records Retention:

The Permittee is required to maintain and make available for inspection upon request all records required by 40 CFR Part 403.12. The Permittee must also maintain for a period of five years and make available for inspection upon request the following records concerning self-monitoring:

1. The date, the exact place and time, the method and the name(s) of person(s) taking samples.
2. The date and time each analysis was performed.
3. The name of the person performing the analysis (lab name and identification number).
4. The analytical techniques and results of analysis.

The five year retention period will be extended during the course of any unresolved litigation regarding the Permittee or when requested in writing by SCDHEC, EPA or the District.

I. Violation Reporting

If any self-monitoring indicates a violation of any condition of this permit, the Permittee shall notify the District within 24 hours of becoming aware of the violation. The Permittee shall immediately resample and submit the results of the analysis to the District within 30 days.

**PART III**  
**GENERAL CONDITIONS**

A. All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or

increased discharges of pollutants must be reported by submission of a new Industrial Wastewater Survey Questionnaire/Discharge Permit Application or, if such changes will not violate the effluent limitations specified in this permit, by written notice to the District prior to implementation of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited, to change existing limits, or to add conditions to Part IV "Special Conditions" of this permit.

B. The Permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the Permittee to achieve compliance with the terms and conditions of this permit.

C. The permittee shall take all reasonable steps to minimize any adverse impact to the North Charleston Sewer District's sewer system and waste treatment facilities resulting from non-compliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of any non-complying discharge.

D. The Permittee shall allow authorized employees of the District, SCDHEC or the Environmental Protection Agency (EPA), upon presentation of their credentials:

1. The right of entry to, upon, or through any premises in which an effluent source is located or in which any records required to be maintained under the terms and conditions of this permit are located.

2. Access to and copy any records, inspect any monitoring equipment or method required under the terms and conditions of this permit, and sample any effluents.

E. In the event of any change in control or ownership of the facilities from which the authorized discharges emanate, the Permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the District. This permit is transferable only with prior approval by the District.

F. The Permittee is required to report all slug discharges, spills, upsets, or malfunctions or bypasses of pretreatment equipment immediately by phone (843-764-3072), and followed within five (5) days by a signed, written report to the North Charleston Sewer District, P.O. Box 63009, North Charleston, SC 29419.

G. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

1. Violation of any terms or conditions of this permit, the Sewer Use Resolution and/or the EPA General Pretreatment Regulations for Existing and New Sources of Pollution (40 CFR Part 403).

2. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.

3. A change in any condition that requires either a temporary or permanent reduction or elimination of the regulated discharge.

H. The permittee must apply in writing for a renewal permit within the period of time not more than ninety (90) days and not less than sixty (60) days prior to expiration of the current permit. Provided further that limitations or conditions of a permit are subject to modification as may be necessary due to changes in applicable water quality standards, the District's NPDES permit discharge effluent limitations, other applicable law or regulation, or for other just cause. The permittee will be notified of any proposed changes in this permit by the District at least thirty (30) days prior to the effective date of the change. Any change or new condition in this permit shall include a provision for a reasonable time schedule for compliance. The permittee may appeal the decision of the District in regard to any changed permit conditions.

I. The Permittee shall not discharge any of the prohibited pollutants identified in Article VII of the North Charleston Sewer District's Sewer Use Resolution.

J. Upon promulgation of Federal Categorical Pretreatment Standards, the District will notify the applicable industries of any additional requirements which may require modifications to or reissuance of this permit. Should the Permittee wish to contest the determination that the Standards are applicable, the District will provide the necessary steps to take in contesting this determination. Within 180 days after the effective date of Categorical Pretreatment Standard, any non-domestic discharger that will have to meet the new Standard must report to the District as described in 40 CFR 403.12 (b), as amended.

K. The District may modify or reissue this permit as local, state, or federal regulations change or as needed to prevent pass through or interference of the District's treatment plant or to prevent violations of the District's wastewater discharge permits or any permits to operate or manage biosolids regardless of the expiration date.

L. Penalties for failing to submit the required reports, falsification of reports, tampering with monitoring equipment or tampering with the samples collected are established in the District's Sewer Use Resolution, and may include criminal and/or civil penalties.

M. If the Permittee employs the use of evaporators for the purpose of wastewater minimization, resource recovery, or for wastewater treatment, the District may require that the Permittee:

1. Monitor and report flow quantities and characteristics to evaporation units;

2. Monitor and report quantities of residues generated by the evaporation process, including ultimate fate of residues.

N. If required by the District, Discharges shall install:

- 1) Continuous wastewater flow meters and/or
- 2) Continuous wastewater pH meters

All flow meters shall be calibrated at least yearly. All costs associated with the purchase, installation, and maintenance of meters shall be paid by the Discharger.

O. The Permittee will be required to submit a Slug Discharge Control Plan if the results from the District's annual evaluation indicate that a plan is necessary. The Plan will be updated annually or any time a significant change is made which could cause a slug discharge of a different nature than previously documented. A Slug Discharge Control Evaluation will be conducted by the District every two years.

P. If a Discharger fails to reply to a Notice of Violation or if the reply is not satisfactory, or if the violation continues for 30 days after the date of the Notice of Violation, the District shall schedule a show cause hearing to discuss the violation and the consequences of continued violations. After review of all pertinent evidence the District may issue an Order to the responsible Discharger detailing corrective actions to be taken by the Discharger. District orders may include civil penalties of up to \$2,000.00 per day per violation. Industrial Users may be subject to criminal and/or civil penalties.

Q. In the event that a Discharger fails to comply with any Order of the District, in addition to any remedies provided for in this permit or the North Charleston Sewer Use Resolution, the District through its attorney may commence an action for appropriate legal and/or equitable relief in the courts.

R. Prohibition against Bypass

Bypass of pretreatment facilities is prohibited, and the District may take enforcement action against an Industrial User for a bypass, unless:

- (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
- (3) The Industrial User submitted notices as required under paragraph (c) of 40 CFR Part 403.17.

**PART IV**  
**SPECIAL CONDITIONS**

The Permittee shall comply with the following conditions:

1. This permit is in addition to and does not either directly or indirectly supersede the requirements of the North Charleston Sewer District Sewer Use Resolution.
2. The Permittee shall not discharge any water or wastes which cause, directly or indirectly the violation of NPDES effluent toxicity test requirements. Users found to be the cause of toxicity will be fined up to \$2,000.00 per offense and will be required to reimburse the District for costs associated with Toxicity Identification/Evaluation (TIE).
3. A daily flow record for each batch of wastewater discharged must be maintained and submitted with the Self-Monitoring Report. The record shall include the following details:
  - \*Industrial User's name and permit number
  - \*date of discharge
  - \*time of discharge
  - \*volume
  - \*operator's initials.
4. Unless otherwise directed by the District, the continuous flow must be recorded daily and submitted with the Self-Monitoring Report. Monthly averages will not be accepted for pounds calculations.

C.P.W. FIELD TESTING AND MAINTENANCE REPORT FOR BACKFLOW PREVENTION ASSEMBLIES

PASSED

**THIS FORM MUST BE FILLED OUT COMPLETELY**

FAILED

DATE 17 Jan 2001 ACCOUNT NAME/BUSINESS NAME SANI-TECH ENVIRONMENT INC.  
 SERVICE ADDRESS 2051 BAINBRIDGE AVE.  
 ACCOUNT NO 105696-00-9 METER NO. 47844633  
 ASSEMBLY NAME WATTS MODEL NO. 007QT SIZE 2" SERIAL NO. 12975  
 ASSEMBLY LOCATION (SPECIFY) IN MECHANICAL ROOM  
 BACKFLOW PREVENTION ASSEMBLY TYPE: PVB DCVA XXX RP AIR-GAP  
 DEFINE HAZARD (beauty shop, restaurant, irrigation, car lot, medical facility, etc.) ENVIRONMENTAL/MAINT. SHOP

	Check Valve No. 1	Check Valve No. 2	Relief Valve or Air-Inlet Valve	#1 Shutoff Valve	#2 Shutoff Valve
Test Before Repairs	(Mark One) Leaked _____ Closed Tight <input checked="" type="checkbox"/>	(Mark One) Leaked _____ Closed Tight <input checked="" type="checkbox"/>	Opened At Differential Pressure <u>N/A</u> PSI	#1 Gate or Ball (Circle One) <u>Ball</u>	#2 Gate or Ball (Circle One) <u>Ball</u>
	Differential Pressure _____ PSI	Differential Pressure _____ PSI		(Mark One) Leaked _____ Closed Tight <input checked="" type="checkbox"/>	(Mark One) Leaked _____ Closed Tight <input checked="" type="checkbox"/>
Repairs and New Materials					
Test After Repairs	(Mark One) Leaked _____ Closed Tight _____	(Mark One) Leaked _____ Closed Tight _____	Opened At Differential Pressure _____ PSI	#1 Gate or Ball (Circle One)	#2 Gate or Ball (Circle One)
	Differential Pressure _____ PSI	Differential Pressure _____ PSI		(Mark One) Leaked _____ Closed Tight _____	(Mark One) Leaked _____ Closed Tight _____

**TESTER AFFIDAVIT**

Test must be performed by a general, limit, or inspector tester duly certified by the South Carolina Department of Health and Environmental Control and approved by CPW. Repair materials used must be original manufacturer's parts. I have provided a copy of this report to the customer and am responsible for sending the original passing or failing report to CPW Cross Connection Control Department within seven (7) days of testing the assembly. I hereby certify that the above testing and/or repair was performed by myself, Mike Hennon and the information is correct.

(signature)

CHECK CATEGORY: GENERAL  LIMITED \_\_\_\_\_ INSPECTOR TESTER \_\_\_\_\_ DHEC CERT. NO. 110056802  
 COMPANY NAME J.M. Hennon COMPANY TELEPHONE (843) 552-1358

IMPORTANT: COMMENTS AND CONDITION OF ASSEMBLY: (HORIZONTAL, VERTICAL, TC MISSING, NO CLEARANCE, MISSING BOX, PRESSURE GAUGE ON TC, ETC.) \_\_\_\_\_

TESTED BY (PRINT) Mike Hennon DATE 17 Jan 2001 TIME 2:00 PM  
 METHOD OF TESTING Differential Pressure Direction of Flow TEST KIT USED Midwest 830 Sight Tube  
 REPAIRED/RETESTED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 INSTALLED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 IS THIS A NEW ASSEMBLY? IF YES, CHECK BLOCK AND PROVIDE MAKE, MODEL, SIZE AND SERIAL No. OF ASSEMBLY REMOVED: \_\_\_\_\_

April 9, 2001

Mr. John Albrecht, P.E.  
Albrecht Environmental, Inc  
1111 Bowman Rd  
Mt. Pleasant, SC 29464

**Geotechnical Investigation  
Sanitech Facilities  
North Charleston, SC  
WPC Project #2001-021**

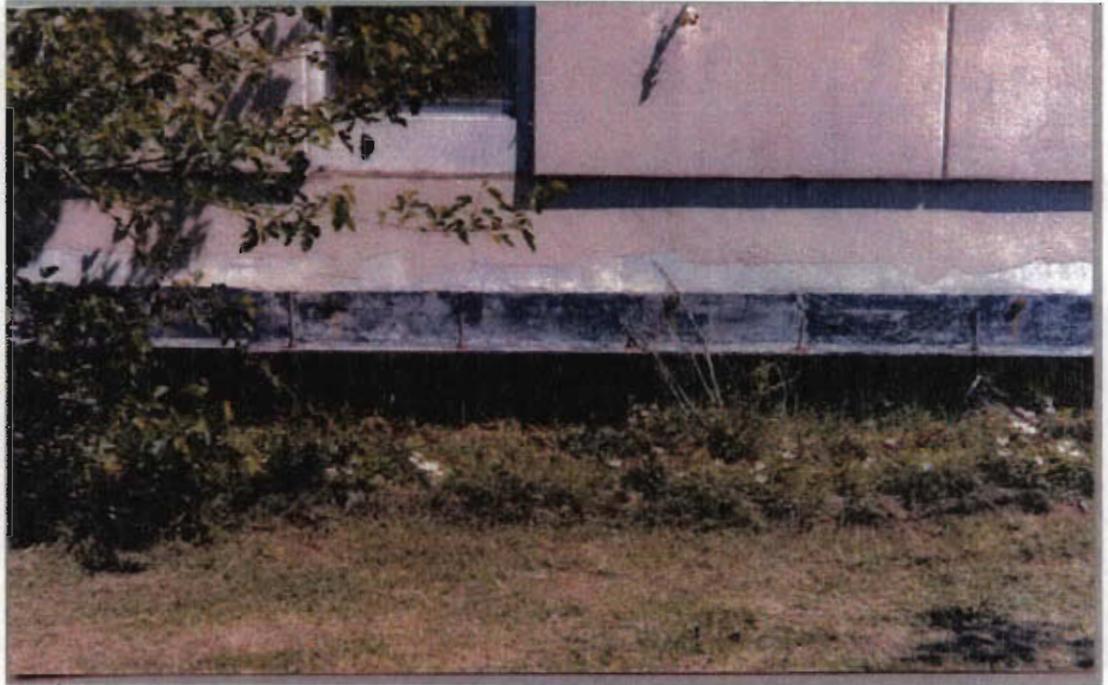
Dear Mr. Albrecht:

WRIGHTPADGETTCHRISTOPHER (WPC) has completed the Geotechnical Investigation for the proposed expansion of the Sanitech facilities in North Charleston, SC. The following paragraphs describe the project, outline exploratory procedures used, discuss the subsurface conditions and provide seismic considerations. The scope of the project included recommendations for site preparation and foundation support which are based upon the proposed construction, subsurface data as well as experience with similar conditions.

**PROJECT DESCRIPTION**

The Sanitech facilities are located in an office warehouse building at the old Naval Base in North Charleston. The building primarily contains office space but has a garage bay at one end that is proposed to be converted into the waste water processing system.

Construction at the old Naval Base began in the 1930's and additional building were added over time. This area was originally marsh and tidal creeks that re-claimed during the construction process. With time this reclaimed land has been gradually settling as the underlying marsh clays consolidate from the weight of the fill that has been placed upon it. This building was probably constructed in the 1970's or 1980's and is supported on 10 inch concrete piles. Metal sheeting has been attached around the base of the building to close the gap that has developed as shown in Photograph 1. However, the sheeting was not present in one area and it was possible to see beneath the building as seen in Photograph 2. We could not determine the pile spacing from this view. However, it appears that since construction the surrounding soils have settled relatively uniformly 1 to 2 feet, leaving grade beams and piles exposed as shown in the following photographs.



**Photograph 1 : A side view of the building. The ground surrounding the building has subsided 1 to 2 feet.**



**Photograph 2: A view beneath the building through the gap shown in Photograph 1. The piles can be seen as well as the spaces between the grade beams. Typically, the gap was covered by metal sheeting, except for this portion of the building.**

The Sanitech facilities are proposed to be improved by adding a processing system within the garage bay. The processing system will consist of filters, mixers and two 12 foot diameter treatment tanks. Adjacent to the building, three (3) equilization tanks, 18 feet in diameter, and one (1) oil storage tank, 12 feet in diameter, are proposed to be constructed on the existing concrete slab. Each 18 foot diameter tank will have loaded weight of 459,850 pounds. The loaded weight of the 12 foot diameter tank will be 76,924 pounds. We understand that it is desirable to have these tanks supported on a shallow foundation system. Near the exterior tanks a containment area consisting of small dikes is proposed to be constructed. The dike area ranges in size from 512 to 1920 square feet and could contain up to 4 feet of waste water. We assume that a containment system will be constructed around the tanks in the event of a breach or spill.

### **EXPLORATION PROCEDURES**

The site was explored using one (1) Piezocone Penetration Test (CPTu) and two (2) Flat Blade Dilatometer Tests (DMTs). Soil classifications using CPTu and DMT data are based on published correlations and a discussion of CPTu and DMT technology with the associated classification chart is included in the Appendix. Three (3) Test Pits were excavated to investigate the thickness of the existing slab and to explore the near surface conditions. Details of the subsurface conditions encountered by CPTu, DMT or Test Pits is included on the logs in the Appendix.

### **GEOTECHNICAL FINDINGS**

**Subsurface Conditions** Based on the Test Pit excavations, the existing driveway slab thickness ranges from 8 to 12 inches and is underlain by base course to a depth of about 16 inches from the ground surface. Depending on the test pit location, the base course was underlain by either silty sand, clayey sand or sandy clay that extended to depths ranging between 29 and 36 inches below the ground surface. The Test Pits were terminated within the surficial crust of fill around 3 feet below the ground surface.

Below the Test Pit termination depth, the CPTu and DMTs encountered old sandy fill intermixed with soft clays, debris and organics was encountered to depths of around 12 feet. This upper crust was underlain by very soft, organic marine clay that extended to a depth of approximately 60 feet. Stiff clayey silt extend from 60 to 66 feet and is underlain by the Cooper Marl Formation, an overconsolidated silt that

underlies the Charleston area and is several hundred feet thick. The CPTu and DMTs were terminated within this stratum at depths ranging between 70 and 74 feet.

**Groundwater** The depth to the top of the groundwater table was estimated to be 5 feet. Groundwater depth was determined by calculating the hydrostatic line (height of water below the ground surface) on the porewater pressure (U) graph on the Piezocone Penetration Test Logs. Rainfall events, tides, surface drainage, and seasonal weather patterns vary with time and influence the level of the groundwater table. Further, with clayey soils near the surface, a perched groundwater table likely develops after rainfall. A perched groundwater table occurs as the low permeability clays trap water at or near the ground surface. The trapped water moves laterally across the site to collect in low areas before it gradually descends to its natural groundwater level.

**Seismic Considerations** Ground shaking at the foundation of structures is the principal seismic hazard to be considered in design of earthquake-resistant buildings. Potential damage can be mitigated by structural measures. However, we are not familiar with the considerations used to design the existing structure. Based upon the 1997 Standard Building Code and ASCE 7-95, the site is identified as being in an area where the peak acceleration is 0.12g. The soil conditions can be classified as Soil-Profile Type S<sub>4</sub>.

We performed a seismic analysis of the subsurface conditions based on an earthquake magnitude of 6 and an acceleration of 0.12g. Calculations indicated that the soils encountered below the groundwater table are resistant to liquefaction. While any amount of settlement is dependent on the magnitude of the seismic event and the final density of the subgrade after compaction, we estimate 1 inch of settlement may occur. This would probably result in minor damage to the slab. However, the tanks containing liquids may require special design considerations due to the differing resonate frequencies of soils versus liquids.

## CONCLUSIONS AND RECOMMENDATIONS

The site is underlain by three basic soil layers: 1) the upper crust of uncontrolled fill and debris, 2) very soft marine clays and 3) the Cooper Marl Formation. Due to the weight of the fill that previously placed to reclaim the marshland, the area has settled 1 to 2 feet. Based on experience with similar soil conditions, the ground surrounding and beneath the building will continue to settle.

**Outside Tanks** If settlement of the proposed tanks is a concern, a deep foundation system, consisting of steel pipe piles, can be used to support the proposed tanks. However, a shallow foundation system can be used with the understanding that routine maintenance in the form of pipe adjustment at tie-in locations should be anticipated to accommodate the differential settlement between the slab and the adjacent pile supported building.

The existing concrete driveway slab is unsuitable to support the proposed 18 foot diameter tanks. A new slab should be constructed to evenly distribute the loads of the overlying tanks. A strengthened and uniform subgrade is critical in order to provide an adequate bearing surface. The subgrade improvement and slab design is described in the following section.

Constructing a loaded slab adjacent to the building will accelerate the ongoing settlement at the site. Depending on the applied load, the rate of settlement may exceed the rate of the surrounding soils creating a plunging effect. Distributing the load of the tanks over a larger area so reduce the net load to be less than 400 pounds per square foot can deter a plunging effect. If the containment system for the tanks is supported on a separate slab, it may settle at a slower rate than the tanks. Therefore, the containment system should be supported on the same foundation as the tanks to ensure that it is at the same level as the base of the tanks.

Additional weight of the loaded slab near the building will also increase the downdrag forces on the nearby piles caused by the increased settlement of the underlying clays. The capacity or the current loading of these piles is unknown, but this additional downdrag force may damage the piles. The edge of the slab should be a minimum 10 feet from the building to help reduce downdrag forces.

**Slab on Grade** To minimize differential settlement, a uniform bearing surface will be essential. This will require the removal of the existing slab and excavation of 5 feet of the underlying soils. The excavation should extend a minimum of 5 feet beyond the edge of the proposed slab. To create a uniform subgrade, 4 layers of geogrid



**Controlled Fill** Controlled Fill material should be free of organics and debris. To further reduce settlements, light-weight fill soils should be used. These fill soils should be clayey or silty sands classified as SC or SM according to the Unified Soil Classification System, with a Maximum Dry Density of around 80 pounds per cubic foot (pcf) (Modified Proctor; ASTM D 1557). Fill should be placed in uniform lifts and compacted to at least 95% of its Modified Proctor Maximum Dry Density as determined by ASTM D 1557. The upper 3 feet of fill beneath the slab should be compacted to 100% of the soils Maximum Dry Density (ASTM D 1557).

**Interior Tanks** Without a structural analysis of the existing building and foundation system, it is uncertain if the proposed tanks within the building will overload the existing floor system. Further, a shallow foundation system is not recommended for the interior tanks since the slab will be close to the existing piles and downdrag forces may damage the existing piles. It would also be difficult to position a proposed slab between the existing grade beams and piles, since neither should be cut. Instead, the interior tanks should be placed on a new isolated floor system supported by steel pipe piles. Using a system of splices, steel pipe piles can be installed within the confines of the garage bay to support what would be an elevated platform at the same level as the existing floor system.

**Steel Pipe Piles** As mentioned, a deep foundation system can be used to support the proposed interior and exterior tanks. A deep foundation system eliminates concerns for excessive settlements and the need for continual shimming and pipe adjustment.

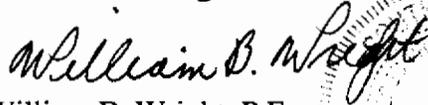
The pipe piles should have an outer diameter of 8 inches. With a 15 to 18 foot embedment into the Cooper Marl Formation, an allowable capacity of 10 tons can be achieved. For estimating purposes, the cost of the pipe piles is approximately \$15.00 per foot. The pipe piles should be installed using a hammer with a rated energy between 30 and 45 kip-feet. A test pile should be installed at a production location to verify the capacity and to confirm driving criteria. The pile should be dynamically tested after a minimum of 7 days after installation using a Pile Driving Analyzer. WPC can provide additional detail for a deep foundation system if needed.

WRIGHTPADGETTCHRISTOPHER appreciates the opportunity to provide this report. Should the project change or as additional information becomes available, we can review and modify our recommendations as needed. This report is for the sole use of this project and should not be relied upon otherwise. If you have questions concerning the contents herein, please contact us.

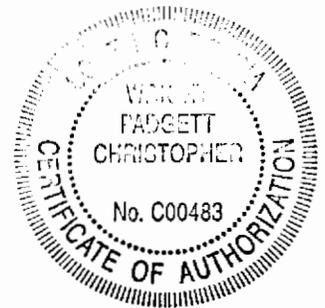
Respectfully submitted,  
WRIGHTPADGETTCHRISTOPHER



Matthew L. Silveston, P.E.  
Geotechnical Engineer



William B. Wright, P.E.  
Senior Engineer



- Attachments:
- Piezocone Penetration Classification
  - Flat Blade Dilatometer Description
  - Test Location Plan
  - Piezocone Test Log
  - Flat Blade Dilatometer Test Log
  - Test Pit Log
  - Liquefaction Analysis



WRIGHTPADGETTCHRISTOPHER  
Engineering & Construction Services

**CONE PENETRATION CLASSIFICATION**

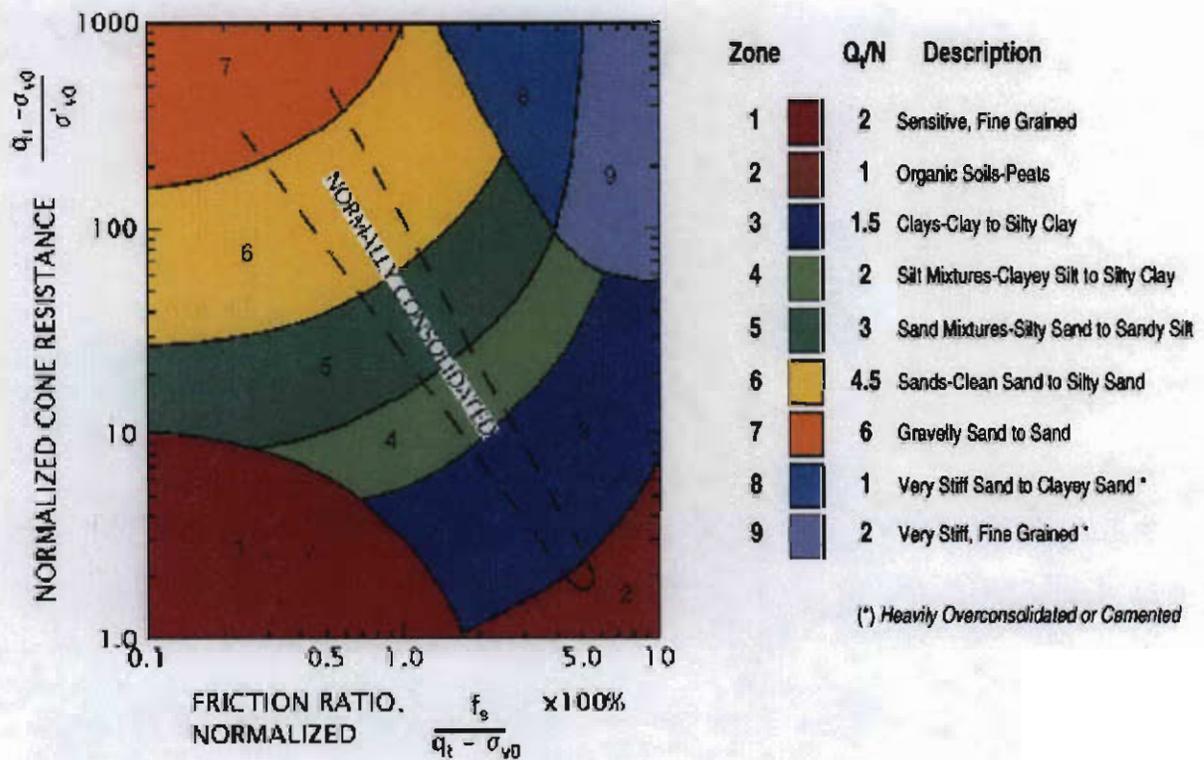
## Cone Penetration Classification

The tip resistance ( $q_c$ ) is measured as the maximum force over the projected area of the tip. It is a point stress related to the bearing capacity of the soil. The measured  $q_c$  must be corrected for porewater pressure effects (Lunne et al, 1997), especially in clays and silts where porewater pressures typically vary greatly from hydrostatic. This corrected value is known as  $q_t$ , which is reported in the Piezocone Penetration Logs. The  $u_2$  position element is required for the measurement of penetration porewater pressures and the correction of tip resistance. The sleeve friction ( $f_s$ ) is used as a measure of soil type and can be expressed by friction ratio:  $FR = f_s/q_t$ .

The estimated stratigraphic profiles included in the Piezocone Penetration Logs are based on relationships between  $q_t$ ,  $f_s$ , and  $U_2$ . The normalized friction ratio ( $FR_N$ ) is calculated by using:

$$FR_N = \frac{f_s}{q_t - \sigma_{v0}'} \times 100\%$$

and is indicative of soil behavior and is used to classify the soil behavior type. Typically, cohesive soils, such as plastic silts and clays, have high FR values, low  $q_t$  values and generate large excess penetration porewater pressures. Cohesionless soils, such as sands, have lower FR's, high  $q_t$  values and typically do not generate excess penetration porewater pressures. The following graph (Robertson, 1990) presents one of the accepted correlations used to classify soils behavior types.



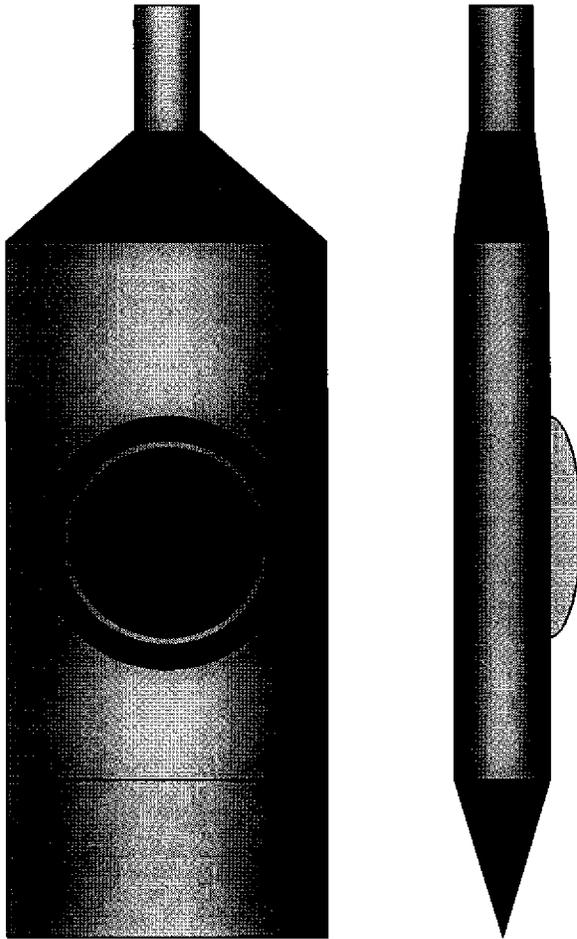


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**FLAT BLADE DILATOMETER DESCRIPTION**

## Flat Blade Dilatometer

Similar to the CPT, the Flat Blade Dilatometer (DMT) is hydraulically pushed into the ground. The DMT consists of a steel blade with a circular membrane near the center of the blade. Every foot in depth, the steel membrane is inflated 1.1 millimeters into the surrounding soil. From the pressure required to inflate the membrane, the Dilatometer Modulus ( $E_D$ ) can be calculated. The  $E_D$  is very similar to the Youngs Modulus and thus a stress-strain relationship can be determined for the soil profile.

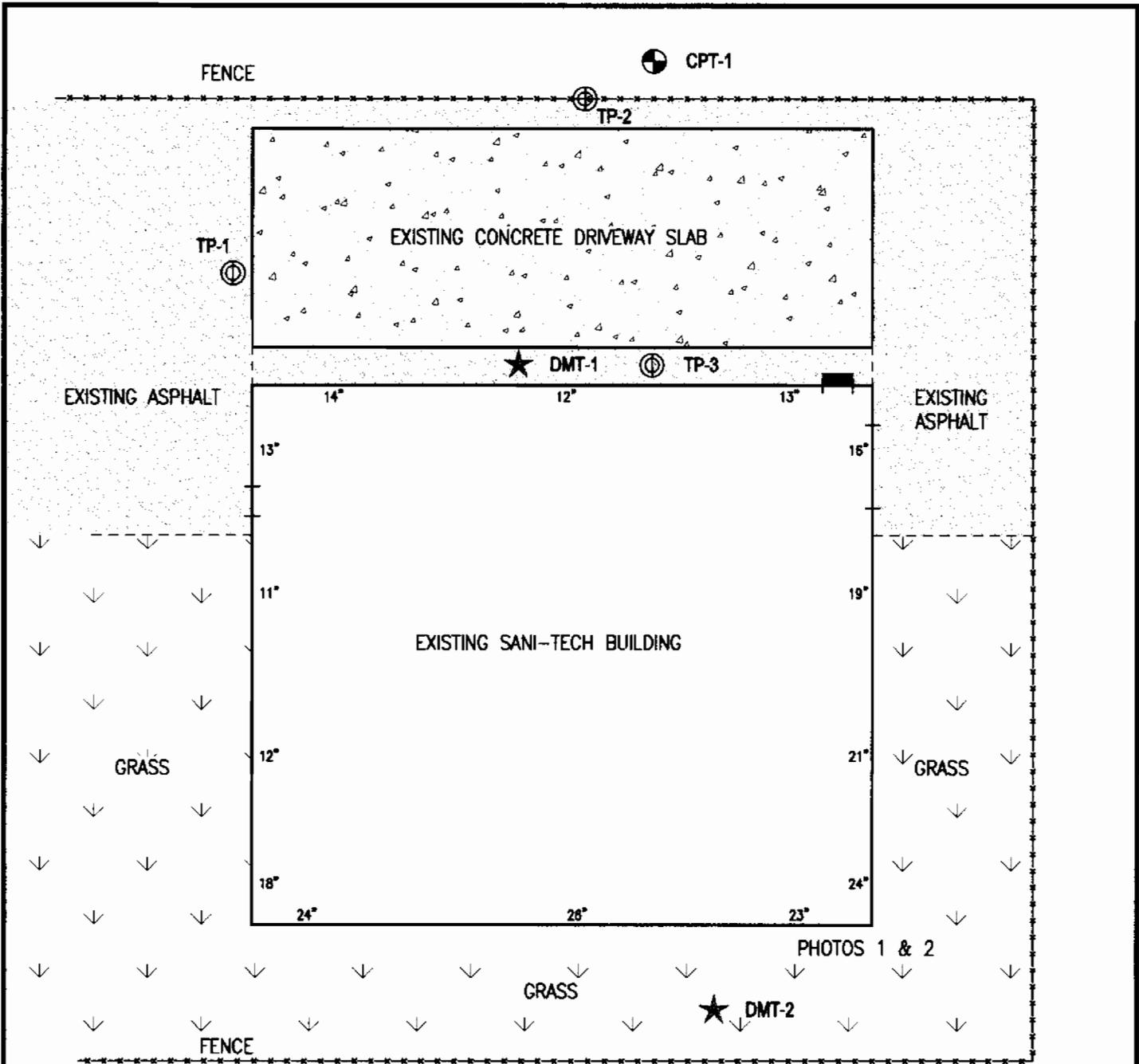


**A schematic of the front and side profile of the Flat Blade Dilatometer.**



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**TEST LOCATION PLAN**



LEGEND	
	PIEZOCONE PENETRATION TEST (CPTu)
	DILATOMETER (DMT)
	TEST PIT (TP)
18"	ESTIMATED GROUND SETTLEMENT



WRIGHT PADGETT CHRISTOPHER

Engineering & Construction Services

1017 Chuck Dawley Blvd. Mt. Pleasant, South Carolina 29464  
tel 843.884.1234 fax 843.884.9234 www.wpoeng.com

TEST LOCATION PLAN

SANI-TECH  
N. CHARLESTON, SC

WPC Project # 2001-021



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**APPENDIX**

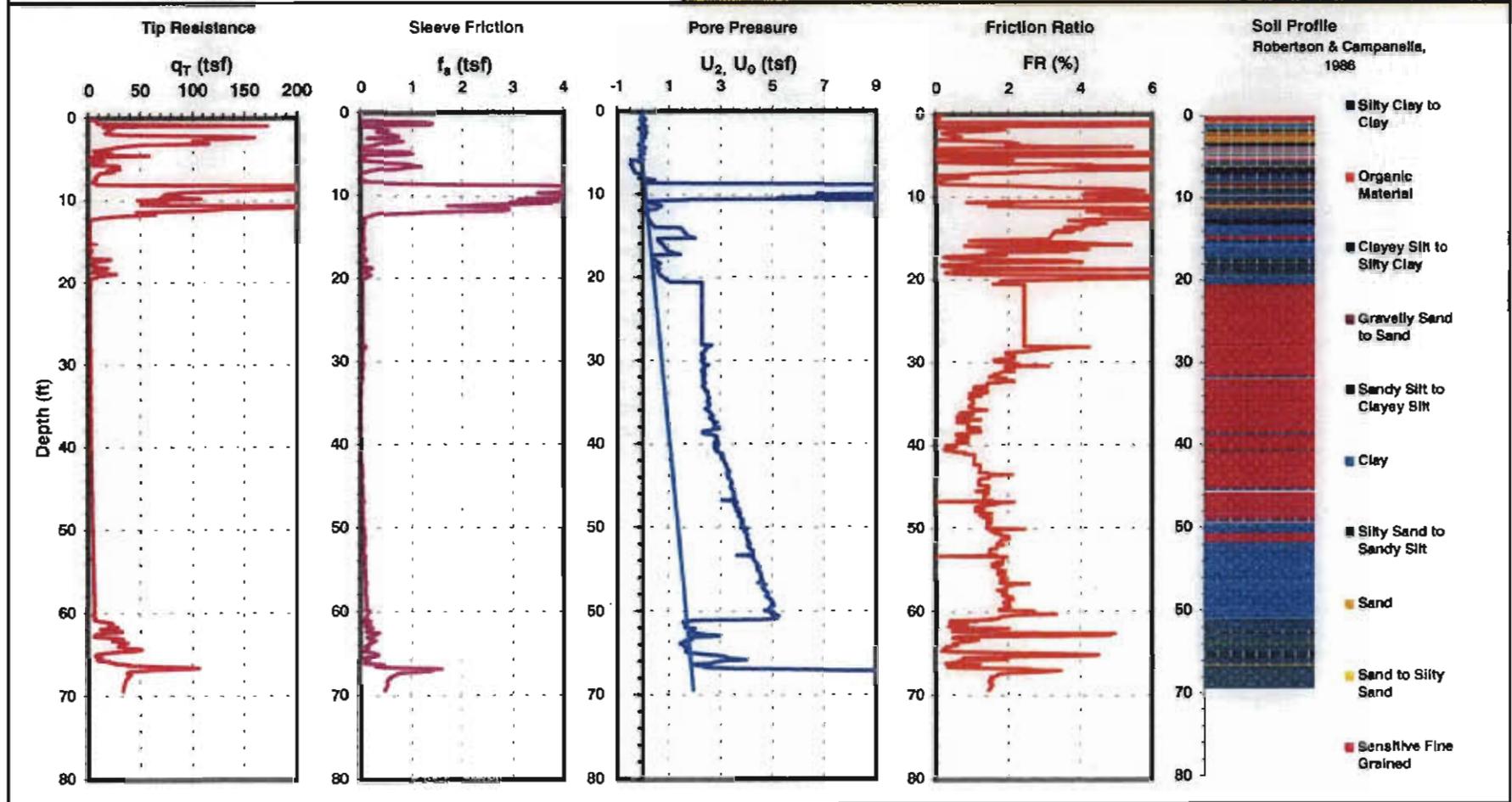
**PIEZOCONE TEST LOGS**



**WRIGHT PADGETT CHRISTOPHER**  
Engineering & Construction Services

Test Site: Sani-Tech  
Location: N. Charleston  
Client: Albrecht Environmental  
Project: 2001-021  
Latitude:  
Longitude:  
Date: 18-Jan-01

Truck: Pagani 220-73  
Cone: Geotech AB 5 ton  
Sounding: CPT1  
GWT: 5.0 ft  
ASTM: D 5778  
Supervisor: Mike Basha  
Operator: Bryant Quisenberry





WRIGHTPADGETTCHRISTOPHER  
Engineering & Construction Services

**FLAT BLADE DILATOMETER TEST LOG**



WRIGHT/PAGE/ET CHRISTOPHER  
Engineering & Construction Services

Test Site: Sanitech  
Location: North Charleston, SC  
Client: Abstract Environmental, Inc  
Project: WPC2001-021  
Latitude:  
Longitude:  
Date: 18-Jan-01

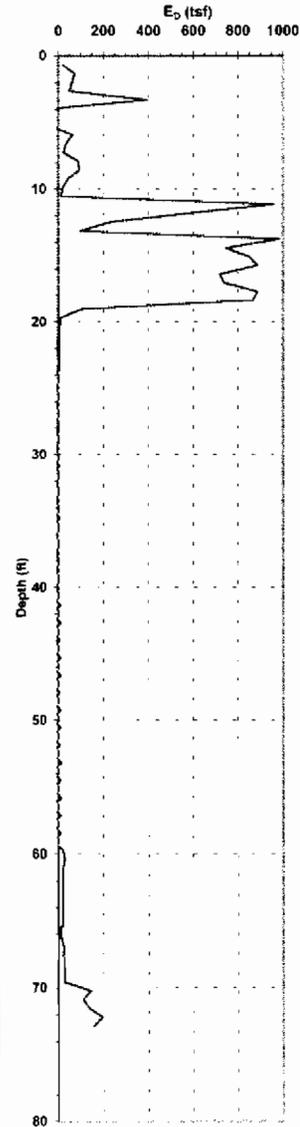
Truck: Pagani Z20-73  
Cone: Geotech AB 5 ton  
Sounding: DM11  
GWT (lb): 5  
ASTM: Sub Committee 18.02  
Supervisor: Mike Basha  
Operator: Bryant Quisenberry

Calibration:	Before	After
AA (bar)	0.10	0.10
AB (bar)	0.25	0.25
Z <sub>0</sub> (bar)	0.00	0.00

Depth (m)	Depth (ft)	Thrust (kg/cm <sup>2</sup> )	A (bar)	B (bar)
0.2	0.7	21.0	1.5	2.7
0.4	1.3	34.0	1.3	4.0
0.6	2.0	36.0	1.8	4.2
0.8	2.6	110.0	2.1	4.2
1.0	3.3	176.0	4.7	16.0
1.2	3.9	171.0	0.0	0.0
1.4	4.6	129.0	0.0	0.0
1.6	5.2	0.0	0.0	0.0
1.8	5.9	52.0	2.2	4.7
2.0	6.6	48.0	2.5	4.2
2.2	7.2	40.0	2.3	3.7
2.4	7.9	73.0	2.5	5.6
2.6	8.5	76.0	4.3	7.6
2.8	9.2	51.0	3.5	5.5
3.0	9.8	39.0	2.7	4.0
3.2	10.5	210.0	2.6	3.7
3.4	11.2	904.0	12.0	38.5
3.6	11.8	534.0	21.0	37.5
3.8	12.5	185.0	3.1	10.0
4.0	13.1	222.0	2.4	5.8
4.2	13.8	366.0	5.4	32.5
4.4	14.4	487.0	8.8	29.5
4.6	15.1	600.0	14.0	37.5
4.8	15.7	576.0	17.5	42.0
5.0	16.4	563.0	25.0	45.0
5.2	17.1	658.0	23.0	43.5
5.4	17.7	590.0	25.5	50.0
5.6	18.4	428.0	8.0	32.0
5.8	19.0	158.0	3.1	6.7
6.0	19.7	59.0	3.1	4.1
6.2	20.3	44.0	3.0	3.9
6.4	21.0	41.0	3.0	3.9
6.6	21.7	40.0	3.0	3.7
6.8	22.3	48.0	3.2	4.0
7.0	23.0	51.0	3.3	4.2
7.2	23.6	47.0	3.2	4.0
7.4	24.3	51.0	0.0	0.0
7.6	24.9	51.0	3.0	3.8
7.8	25.6	51.0	0.0	0.0
8.0	26.2	50.0	3.0	3.8
8.2	26.9	54.0	0.0	0.0
8.4	27.6	54.0	3.2	4.0
8.6	28.2	60.0	3.2	4.0
8.8	28.9	66.0	0.0	0.0
9.0	29.5	66.0	3.2	4.0
9.2	30.2	64.0	0.0	0.0
9.4	30.8	61.0	3.0	3.9
9.6	31.5	63.0	0.0	0.0
9.8	32.2	65.0	3.3	4.0
10.0	32.9	67.0	0.0	0.0
10.2	33.5	62.0	3.3	4.1
10.4	34.1	65.0	0.0	0.0
10.6	34.8	69.0	3.1	4.0
10.8	35.4	73.0	0.0	0.0
11.0	36.1	72.0	3.3	4.0
11.2	36.7	63.0	0.0	0.0
11.4	37.4	66.0	3.3	4.1
11.6	38.1	68.0	0.0	0.0

Depth (m)	Depth (ft)	Thrust (kg/cm <sup>2</sup> )	A (bar)	B (bar)
11.8	38.7	69.0	3.2	4.0
12.0	39.4	72.0	0.0	0.0
12.2	40.0	65.0	3.5	4.3
12.4	40.7	74.0	0.0	0.0
12.6	41.3	75.0	3.5	4.5
12.8	42.0	75.0	0.0	0.0
13.0	42.7	75.0	3.7	4.7
13.2	43.3	68.0	0.0	0.0
13.4	44.0	75.0	3.9	4.8
13.6	44.6	76.0	0.0	0.0
13.8	45.3	77.0	3.9	4.9
14.0	45.9	75.0	0.0	0.0
14.2	46.6	70.0	3.8	4.8
14.4	47.2	77.0	0.0	0.0
14.6	47.9	77.0	4.0	4.9
14.8	48.6	80.0	0.0	0.0
15.0	49.2	78.0	4.0	5.0
15.2	49.9	76.0	0.0	0.0
15.4	50.5	78.0	4.0	5.0
15.6	51.2	80.0	0.0	0.0
15.8	51.8	83.0	4.3	5.2
16.0	52.5	85.0	0.0	0.0
16.2	53.2	85.0	4.6	5.7
16.4	53.8	88.0	0.0	0.0
16.6	54.5	90.0	4.5	5.5
16.8	55.1	94.0	0.0	0.0
17.0	55.8	92.0	4.7	5.8
17.2	56.4	88.0	0.0	0.0
17.4	57.1	97.0	4.8	5.8
17.6	57.7	100.0	0.0	0.0
17.8	58.4	99.0	4.8	5.8
18.0	59.1	98.0	0.0	0.0
18.2	59.7	97.0	4.4	5.7
18.4	60.4	116.0	4.7	6.2
18.6	61.0	119.0	5.0	6.3
18.8	61.7	119.0	5.2	6.4
19.0	62.3	114.0	5.1	6.3
19.2	63.0	109.0	5.2	6.5
19.4	63.7	121.0	5.3	6.5
19.6	64.3	117.0	5.5	5.9
19.8	65.0	123.0	5.9	7.2
20.0	65.6	127.0	6.0	7.0
20.2	66.3	123.0	6.3	7.4
20.4	66.9	133.0	5.9	7.3
20.6	67.6	128.0	6.2	7.5
20.8	68.2	132.0	6.2	7.7
21.0	68.9	132.0	6.5	8.0
21.2	69.6	130.0	6.6	8.0
21.4	70.2	180.0	6.4	11.0
21.6	70.9	168.0	6.3	10.0
21.8	71.5	209.0	6.5	11.0
22.0	72.2	221.0	12.0	18.0
22.2	72.8	192.0	16.0	21.0
22.4	73.5	196.0	15.0	20.0

Dilatometer Modulus





WRIGHT-PADGETT CHRISTOPHER  
Engineering & Construction Services

Test Site: Sanitech  
Location: North Charleston, SC  
Client: Albrecht Environmental, Inc  
Project: WPC#2001-021  
Latitude:  
Longitude:  
Date: 18-Jan-01

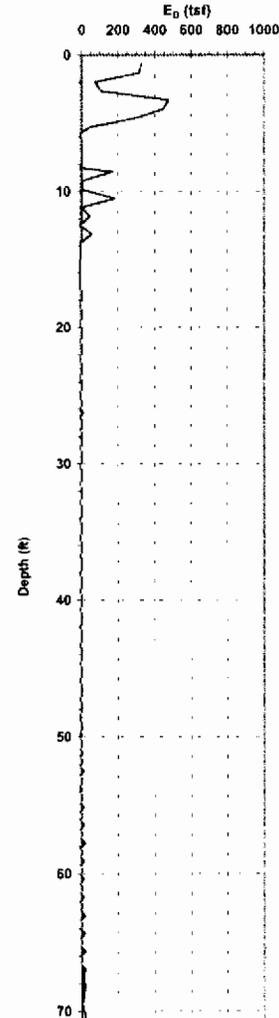
Truck: Pegani 220-73  
Cone: Geotech AB 5 mm  
Sounding: DMT2  
GWT (R): 5  
ASTM: Sub Committee 18.02  
Supervisor: Mike Bashe  
Operator: Bryant Quisenberry

Calibration:	Before	After
AA (bar)	0.10	0.10
AB (bar)	0.25	0.25
z <sub>m</sub> (bar)	0.00	0.00

Depth (m)	Depth (ft)	Thrust (kg/cm <sup>2</sup> )	A (bar)	B (bar)
0.2	0.7	154.0	1.5	12.0
0.4	1.3	142.0	4.8	14.0
0.6	2.0	55.0	3.4	6.2
0.8	2.6	47.0	4.3	8.0
1.0	3.3	194.0	4.6	18.0
1.2	3.9	239.0	6.3	19.0
1.4	4.6	130.0	4.2	13.0
1.6	5.2	47.0	2.0	4.0
1.8	5.9	159.0	0.0	0.0
2.0	6.6	88.0	0.0	0.0
2.2	7.2	206.0	0.0	0.0
2.4	7.9	397.0	8.0	2.2
2.6	8.5	133.0	3.5	8.8
2.8	9.2	42.0	1.0	2.0
3.0	9.8	86.0	1.6	2.5
3.2	10.5	151.0	4.3	10.0
3.4	11.2	61.0	1.5	2.3
3.6	11.8	105.0	1.5	3.5
3.8	12.5	139.0	1.5	2.0
4.0	13.1	148.0	1.5	3.8
4.2	13.8	67.0	2.2	2.8
4.4	14.4	50.0	2.5	3.2
4.6	15.1	48.0	2.4	3.0
4.8	15.7	45.0	2.5	3.0
5.0	16.4	45.0	2.5	3.0
5.2	17.1	45.0	2.5	3.0
5.4	17.7	50.0	0.0	0.0
5.6	18.4	51.0	2.5	3.1
5.8	19.0	53.0	0.0	0.0
6.0	19.7	59.0	2.5	3.1
6.2	20.3	51.0	0.0	0.0
6.4	21.0	49.0	2.8	3.1
6.6	21.7	50.0	0.0	0.0
6.8	22.3	51.0	2.7	3.3
7.0	23.0	51.0	0.0	0.0
7.2	23.6	60.0	2.8	3.3
7.4	24.3	55.0	0.0	0.0
7.6	24.9	55.0	2.5	3.2
7.8	25.6	55.0	0.0	0.0
8.0	26.2	54.0	2.5	3.5
8.2	26.9	54.0	0.0	0.0
8.4	27.6	56.0	2.2	2.8
8.6	28.2	67.0	0.0	0.0
8.8	28.9	57.0	2.8	3.3
9.0	29.5	54.0	0.0	0.0
9.2	30.2	50.0	3.0	3.5
9.4	30.8	64.0	0.0	0.0
9.6	31.5	53.0	3.1	3.6
9.8	32.2	54.0	0.0	0.0
10.0	32.8	52.0	3.0	3.5
10.2	33.5	53.0	0.0	0.0
10.4	34.1	61.0	3.0	3.5
10.6	34.8	60.0	0.0	0.0
10.8	35.4	61.0	3.0	3.6
11.0	36.1	58.0	0.0	0.0
11.2	36.7	56.0	3.0	3.5
11.4	37.4	61.0	0.0	0.0
11.6	38.1	61.0	3.0	3.5
11.8	38.7	61.0	0.0	0.0

Depth (m)	Depth (ft)	Thrust (kg/cm <sup>2</sup> )	A (bar)	B (bar)
12.0	39.4	59.0	3.1	3.6
12.2	40.0	58.0	0.0	0.0
12.4	40.7	63.0	3.5	4.0
12.6	41.3	63.0	0.0	0.0
12.8	42.0	62.0	3.4	3.9
13.0	42.7	63.0	0.0	0.0
13.2	43.3	62.0	3.2	3.7
13.4	44.0	64.0	0.0	0.0
13.6	44.6	62.0	3.5	4.0
13.8	45.3	64.0	0.0	0.0
14.0	45.9	62.0	3.5	4.0
14.2	46.6	62.0	0.0	0.0
14.4	47.2	66.0	3.5	4.0
14.6	47.9	67.0	0.0	0.0
14.8	48.6	67.0	3.5	4.2
15.0	49.2	69.0	0.0	0.0
15.2	49.9	66.0	3.5	4.2
15.4	50.5	70.0	0.0	0.0
15.6	51.2	69.0	3.5	4.4
15.8	51.8	67.0	0.0	0.0
16.0	52.5	65.0	3.5	4.5
16.2	53.2	66.0	0.0	0.0
16.4	53.8	73.0	3.8	4.5
16.6	54.5	73.0	0.0	0.0
16.8	55.1	73.0	4.0	5.0
17.0	55.8	73.0	0.0	0.0
17.2	56.4	72.0	4.0	5.0
17.4	57.1	76.0	0.0	0.0
17.6	57.7	76.0	4.0	5.2
17.8	58.4	75.0	0.0	0.0
18.0	59.1	74.0	4.5	5.5
18.2	59.7	77.0	0.0	0.0
18.4	60.4	80.0	4.0	5.0
18.6	61.0	79.0	0.0	0.0
18.8	61.7	79.0	4.5	5.5
19.0	62.3	81.0	0.0	0.0
19.2	63.0	85.0	4.5	5.7
19.4	63.7	87.0	0.0	0.0
19.6	64.3	84.0	4.5	5.7
19.8	65.0	83.0	0.0	0.0
20.0	65.6	81.0	4.5	5.8
20.2	66.3	83.0	0.0	0.0
20.4	66.9	87.0	4.8	6.0
20.6	67.6	88.0	5.0	6.0
20.8	68.2	88.0	5.0	6.2
21.0	68.9	82.0	5.2	6.2
21.2	69.6	81.0	5.2	6.0
21.4	70.2	97.0	5.2	6.4
21.6	70.9	97.0	5.5	6.6
21.8	71.5	98.0	5.4	6.7
22.0	72.2	98.0	5.6	6.6
22.2	72.8	103.0	5.9	7.0
22.4	73.5	107.0	6.0	7.3

Dilatometer Modulus





WRIGHTPADGETTCHRISTOPHER  
Engineering & Construction Services

**TEST PIT LOG**

**TEST PIT LOG**  
**Sani-Tech**  
**N. Charleston, SC**  
**WPC Project #2001-021**

<b>TEST PIT NUMBER</b>	<b>DEPTH (inches)</b>	<b>SOIL DESCRIPTION</b>
TP-1	0 to 8	Concrete
	8 to 18	Base Coarse Material
	18 to 24	Silty SAND (SM), brown, fine
	24 to 29	Clayey SAND (SC), orange/gray, fine
	29	SAND and CLAY (CL), organics & debris, black
		No Groundwater Encountered
		Test Pit Terminated at 29"
TP-2	0 to 12	Concrete
	12 to 16	Base Coarse Material
	16 to 31	Clayey SAND (SC), brown/orange
	31	SAND and CLAY (CL), organics & debris, black
		No Groundwater Encountered
TP-3	0 to 9	Concrete
	9 to 16	Base Coarse Material
	16 to 26	Silty Sandy CLAY (SC), red/brown, fine
	26 to 36	SAND (SM), gray/black, fine, organics & debris
		No Groundwater Encountered



WRIGHT PADGETT CHRISTOPHER  
Engineering & Construction Services

**APPENDIX**

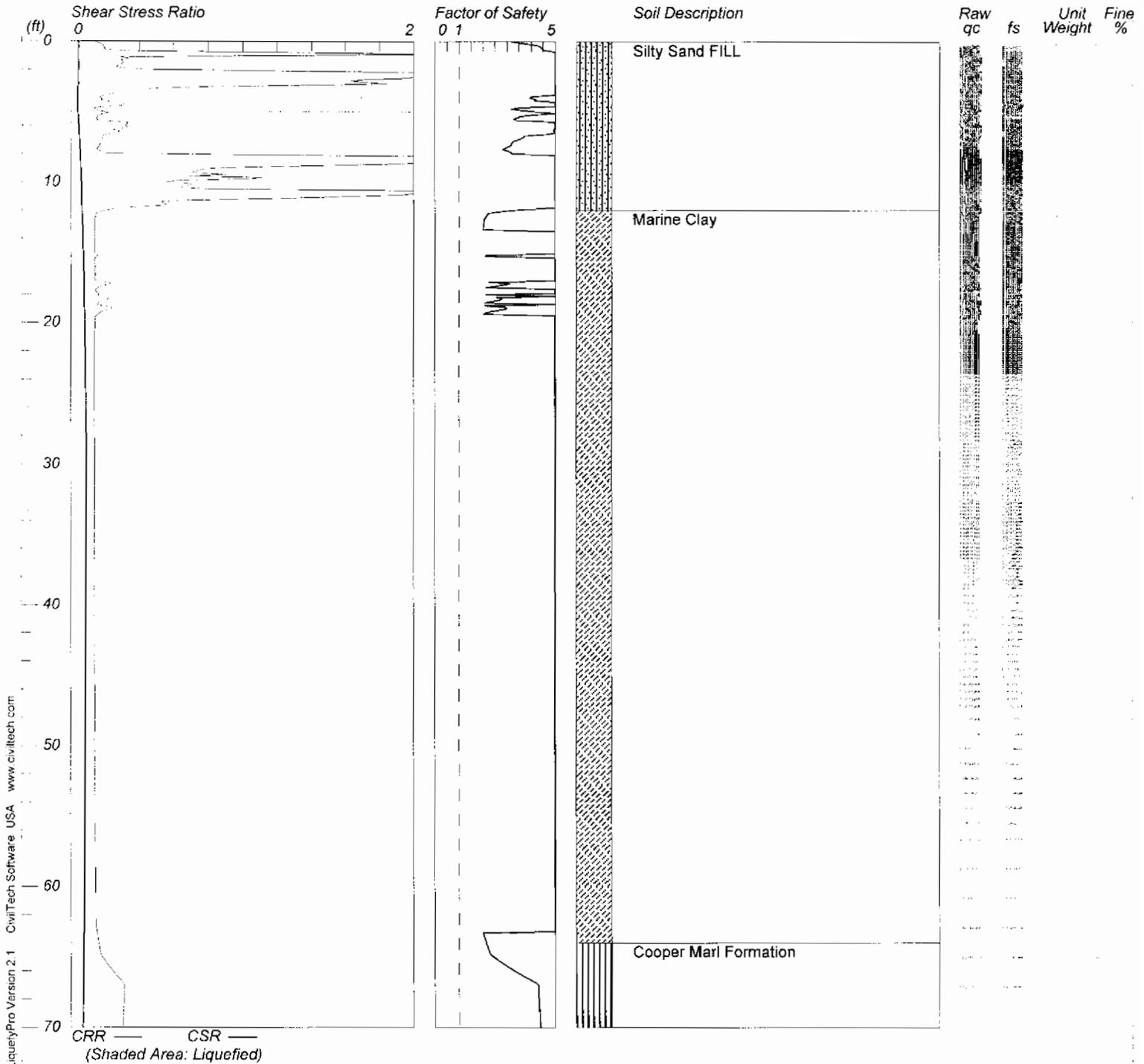
## **LIQUEFACTION ANALYSIS**

# LIQUEFACTION ANALYSIS

## Sanitech Facilities

Hole No.=CPT Water Depth=5 ft

**Magnitude=6**  
**Acceleration=0.12g**







**DEPARTMENT OF THE NAVY**

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

P.O. BOX 190010

2155 EAGLE DRIVE

NORTH CHARLESTON, S.C. 29419-9010

5090

Ser CSO/47

21 August, 01

Mr. Sean P. McDonell, P.E.  
Charleston Naval Complex Redevelopment Authority  
1360 Truxtun Avenue, Suite 300  
North Charleston, SC 29405-2005

Dear Mr. McDonell

**SUBJECT: BENTZ-CRAFT REQUEST TO ERECT A TEMPORARY  
PREFABRICATED STEEL BUILDING.**

This letter is in response to your letter dated August 07, 2001, which submitted a project to install a temporary pre-engineered steel building, located near building 1303.

The Navy has reviewed this request and has no objection to the installation of this temporary facility, subject to the facility being anchored sufficiently to withstand 110-MPH wind. Upon removal of the facility and anchoring system, holes shall be filled and asphalt shall be patched.

Address any further comments regarding this proposed work to Mr. Johnny Bassham at 743-9985.

Sincerely,

A handwritten signature in cursive script that reads "Thomas F. Fressilli".

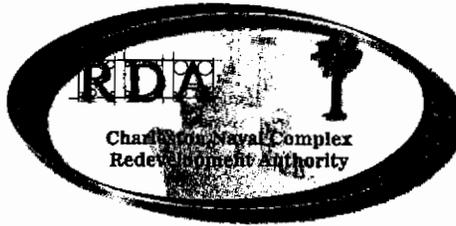
Thomas F. Fressilli  
Caretaker Site Officer

James C. Bryan  
Chairman

Lonnie Hamilton, III  
Vice Chairman

Ronnie M. Givens  
Secretary/Treasurer

James M. Deaton  
Assistant Secretary/Treasurer



Susan K. Dunn

James S. Minor, Jr.

Eugene R. Ott

Jack C. Sprott  
Executive Director

August 7, 2001

Mr. Tom Fressilli  
Charleston Caretaker Site Officer  
Southern Division, Naval Facilities Engineering Command  
P. O. Box 190010  
North Charleston, SC 29419-9010

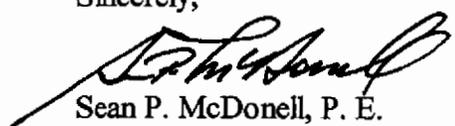
Subject: **BENTZ -CRAFT REQUEST TO ERECT A TEMPORARY  
PREFABRICATED STEEL SPAN BUILDING NEAR BUILDING 1303**

Dear Tom:

We are forwarding some technical information regarding the subject request from Bentz-Craft. They need this facility for an upcoming project and plan to take the building down upon completion of the project. Our primary concern was that this facility be able to withstand hurricane force winds and they have provided the manufacturer's certification that the facility will withstand 110 MPH winds and has a roof loading of 3,316 PSF. The back of the brochure explains the installation. The only deviation is that, since the facility will be temporary, Bentz-Craft will use steel channels that will be anchored into the existing asphalt instead of providing the simple floating foundation as shown in Step #1. Please note that we have not included a digging permit request as the facility will be erected on existing asphalt and no soil will be disturbed.

Thank you in advance for your review of this information. Please contact me with any questions you have regarding this information.

Sincerely,

  
Sean P. McDonell, P. E.  
Engineering Director

/enclosures

DISCOUNTED  
WAREHOUSE MODEL

Date

Name

**COSMETIC BLEM  
FLOOR MODEL**

Mr Mrs; *Bentz*

Please find enclosed the written quote you requested.

*42' x 60' x 20'*

W x L - H Quonset Arch Style Steel Building.

\* # arches *29*

Galvalume  
Made in USA

\* *22* gauge

steel

\* one doorwall with 16 H x 14 W opening

*110 mph  
wind*

\* 1 solid endwall.

*33/6 P.S.F.  
roof*

\* nuts, bolts, washers, weatherstripping.

\* (accessories)

\* erection/foundation manuals

The total cost

**DELIVERED**

is

7977

*was  
11079  
+  
Freight*

The foregoing quote is valid until

7/31/01

Should you require additional information, please feel free to contact me personally.

*1st \$2000 deposit holds it* Sincerely,

*Open delivery*



**ARCHWAY STEEL BUILDINGS**

RICHARD FISCHER  
PRESIDENT

200 BRADLEY ST.  
MCKEES ROCKS, PA 15136

TOLL FREE 1-800-344-2724  
FACTORY (412) 771-3648  
FAX (412) 771-4191

**Visa / Mastercard  
Accepted**

**DEPOSIT REQUIRED  
TO HOLD ANY BLDG.**

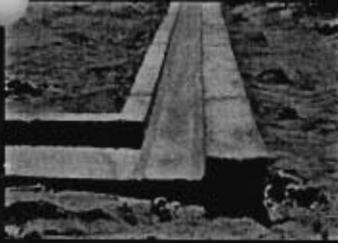
# American Steel Span Q-Series

The all-American,  
all-steel building that sets  
the standard for quality



# Take a look at the ease by which American Steel Span Buildings are erected

STEP #1



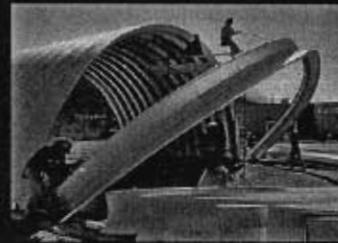
Pour a simple floating foundation

STEP #2



Bolt arches together on the ground

STEP #3



Raise the arches into place

STEP #4



Install doors and endwalls

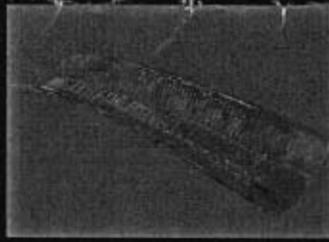
## Accessories

Turbine Vents



Removes condensation & keeps building dry

Skylights



Heavy duty fiberglass offers good lighting

Overhead Doors



Heavy duty industrial overhead doors

Sliding Doors



Heavy duty double sliding doors, sealed at top, bottom and sides



3'x7' Heavy Duty commercial door

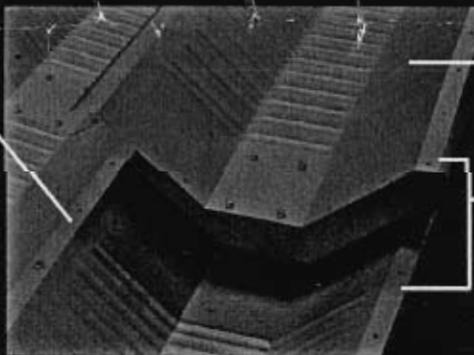
Totally insulated with keyed lock

JS Clear Coat commercial 5/16 hexagon head bolt

## Heavy Duty Commercial GALVALUME Coated Steel

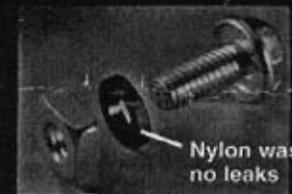
Seven Times More Rust Resistant Than Galvanized

Last nine-inches of each end panel is flat so the two panels fit tight when bolted together making it easy to assemble. The bolts set on a flat surface, not a corrugated one giving a tight seal with no leaks.



7 1/2" large corrugation for strength

A full 9" overlap with a double row of bolts for strength



Nylon washer, no leaks

JS Clear Coat, five times more rust resistant

