



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

May 11, 2009

U. S. Army Corps of Engineers
Regulatory Field Office
Post Office Box 1000
Washington, NC 27889-1000

Attention: Mr. William Wescott
NCDOT Coordinator

Dear Sir:

Subject: Permit Modification Request for **Nationwide Permit 23 and Tar-Pamlico Riparian Buffer Authorization Request** for the proposed replacement of Bridge Nos. 127 over the Tar River Overflow and 129 over the Tar River on SR 1565 in Pitt County. TIP No. B-3684; Federal Aid Project No. BRSTP-1565(4); State Project No. 8.2221101. Debit \$240 from WBS No. 33225.1.1

Reference: Original Permit Application requested February 12, 2008
Nationwide Permits 23, 33, and 12 issued March 20, 2008; USACE Action ID – saw-2008-01011
Section 401 Water Quality Certification and Tar-Pamlico River Buffer Authorization issued April 25, 2008; DWQ Project No. 20080356

Please see the enclosed revised permit drawings, buffer drawings, and the revised debit ledger for the Grimesland Bridge Mitigation site for the above referenced project. Nationwide Permits 23, 33, and 12 were authorized by the USACE on March 20, 2008, General Water Quality Certification No. 3701 and a Tar-Pamlico River Buffer Authorization was authorized by DWQ on April 25, 2008 for 1.29 acres of permanent wetland impacts and 181 linear feet (0.04 acre) of permanent surface water impacts; and a total of 12,717 ft² of impacts to riparian buffers. During the preconstruction meeting held on April 7, 2009, it was noted additional riparian wetland impacts and surface water impacts (0.07 acre permanent riparian wetland impacts, 0.01 acre of temporary riparian wetland impacts, and 0.03 acre of surface water impacts) in the form of fill and mechanized clearing will be required around bents for the new bridge. In addition, 4,988 ft² of allowable impacts to riparian buffers were omitted from buffer sites 1 and 2 of the original permit application.

Section 404 Permit: It is anticipated that the additional permanent impacts relating to roadway fill in wetlands will be authorized under Section 404 Nationwide Permit 23 (Categorical Exclusion). We are, therefore, requesting the modification of the Nationwide Permit 23 issued March 20, 2008.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-431-2000
FAX: 919-431-2002

WEBSITE: WWW.NCDOT.ORG

LOCATION:
4701 ATLANTIC AVENUE
SUITE 116
RALEIGH NC 27604

Section 401 Permit: It is anticipated that the additional permanent impacts will be authorized by Section 401 General Certification number 3701. We are therefore requesting a modification to the General Certification issued April 25, 2008. The NCDOT will adhere to all general conditions of the Water Quality Certification. In accordance with 15A NCAC 2H .0501(a) we are providing five copies of this application to the North Carolina Department of Environmental and Natural Resources for their approval and \$240 to act as payment for processing the permit modification (see subject line).

Tar-Pamlico Riparian Buffer Authorization: NCDOT requests that the NC Division of Water Quality review this application and issue a modification for the Tar-Pamlico Riparian Buffer Authorization issued April 25, 2008.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Tyler Stanton at tstanton@ncdot.gov or (919) 431-6748.

Sincerely,



for Gregory J. Thorpe, Ph.D., Environmental Management Director
Project Development and Environmental Analysis Branch

Cc:

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Victor Barbour, P.E., Project Services Unit
Mr. Mark Staley, Roadside Environmental
Mr. C. E. Lassiter, P.E., Div. 2 Engineer
Mr. Jay Johnson, Div. 2 Environmental Officer
Mr. Scott McLendon, USACE, Wilmington
Mr. Gary Jordan, USFWS
Mr. Travis Wilson, NCWRC
Mr. Ron Sechler, NMFS
Ms. Anne Deaton, NCDMF
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Ms. Stacy Oberhausen, P.E., PDEA
Ms. LeiLani Paugh, NEU
Mr. Randy Griffin, NEU

Grimesland Bridge Mitigation site Revised Debit Ledger (4/28/09)

Site name	Site TIP	HUC	River Basin	Div	County	Mitigation Type	As Built Quantity	Available	Debit
Grimesland Bridge	B-3684	3020103	Tar-Pamlico	2	Pitt				B-3684
						Riverine Wetland Restoration	3.05	1.69	1.36

BUFFER IMPACTS SUMMARY

Site	Station	WETLANDS IN BUFFER	
		ZONE 1 (ft ²)	ZONE 2 (ft ²)
1	15+80 TO 18+50	8079	3830
2	29+40 TO 33+80	2726	1830
Total		10805.0	5660.0

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

Pitt County
PROJECT: B-3684 (Bridge #129)

5/4/2009
SHEET OF

Buffer Drawing
Sheet 5b of 9
REV. 5-4-09

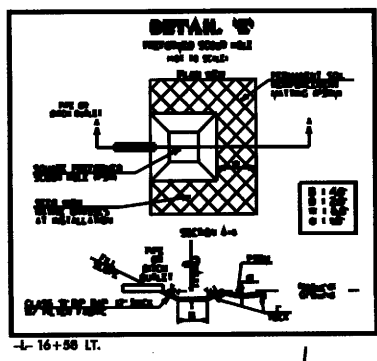
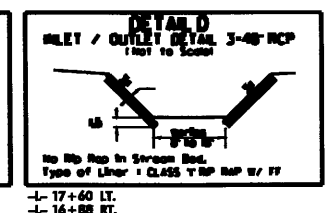
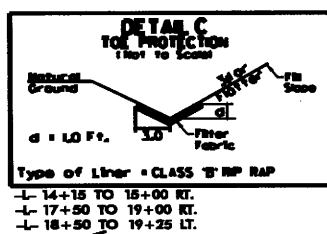
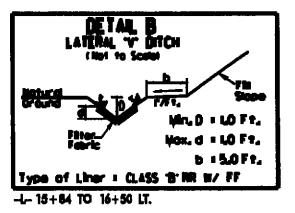
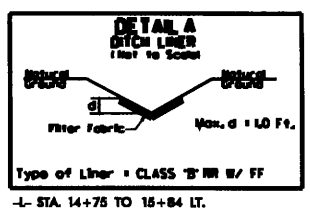
8/17/09

REVISIONS

DATE

BY

- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2



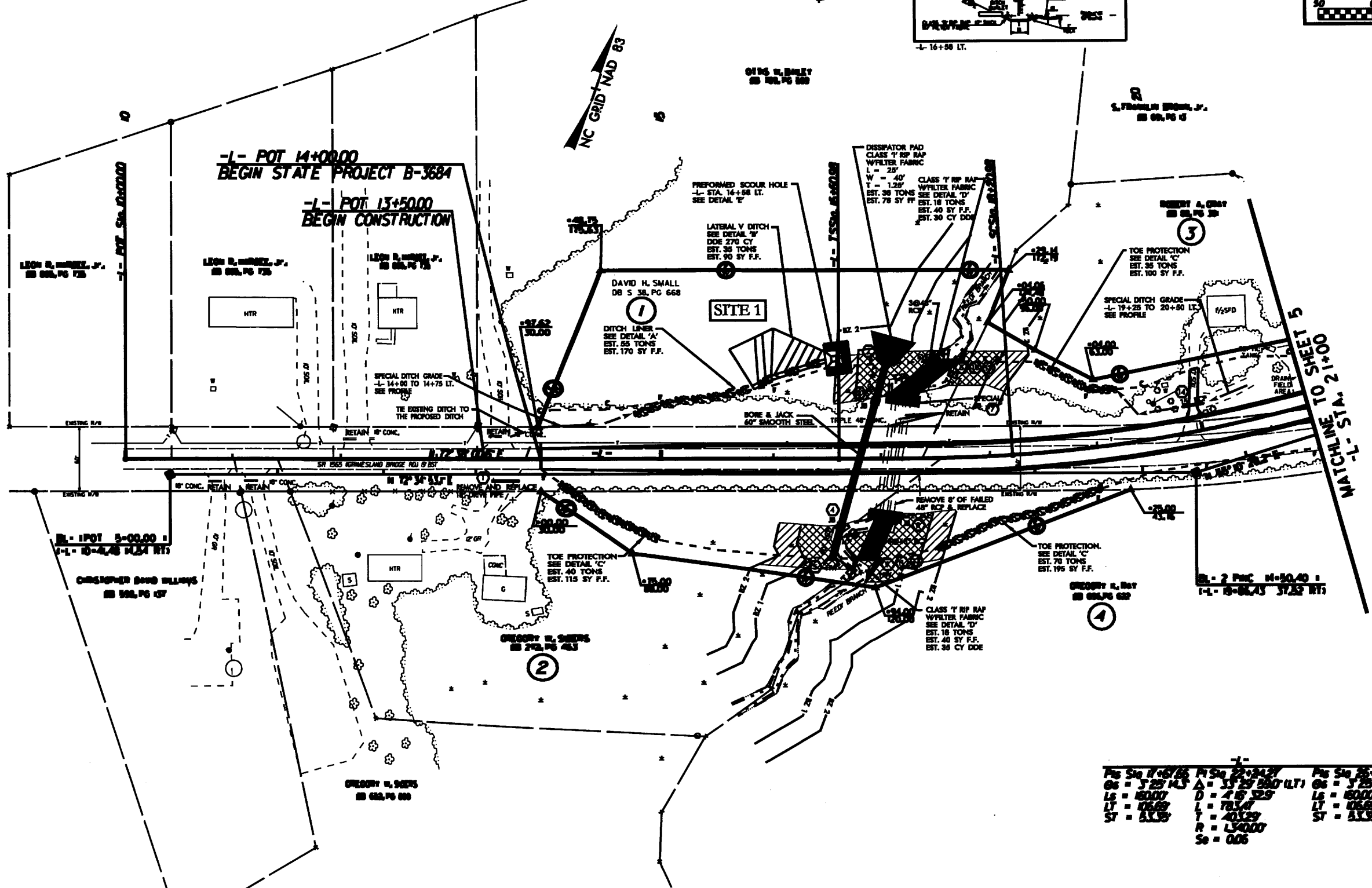
ENGLISH

USE METHOD 3 FOR
CLEANING AND GRUBBING

PITTS COUNTY
SR 1565
4/17/2009

PROJECT REFERENCE NO. B-3684	SHEET NO. 4
ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	
Buffer Drawing	
Sheet 6 of 9	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
INCOMPLETE PLANS DO NOT USE FOR ACQUISITION	

REV. 5-4-09



Pts Sta 14+75	Pts Sta 15+00	Pts Sta 15+84
Os = 3.25' ALJ	Δ = 13.25' BAO (LT)	Os = 3.25' ALJ
Ls = 15.00'	D = 7.15' S28	Ls = 15.00'
LT = 10.69'	L = 78.14'	LT = 10.69'
ST = 53.35'	T = 40.329'	ST = 53.35'
	R = 134.00'	
	Se = 0.06	

BUFFER IMPACTS

FOR -L- PROFILE SEE SHEET 8

ALLOWABLE IMPACTS ZONE 1
 ALLOWABLE IMPACTS ZONE 2

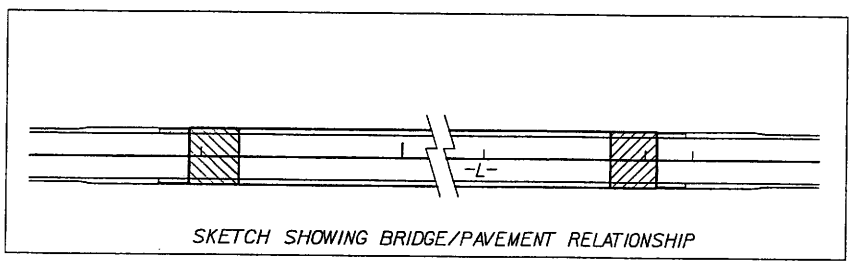
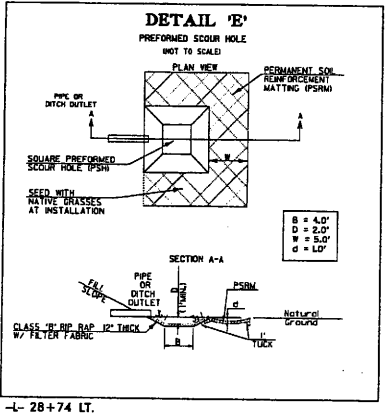
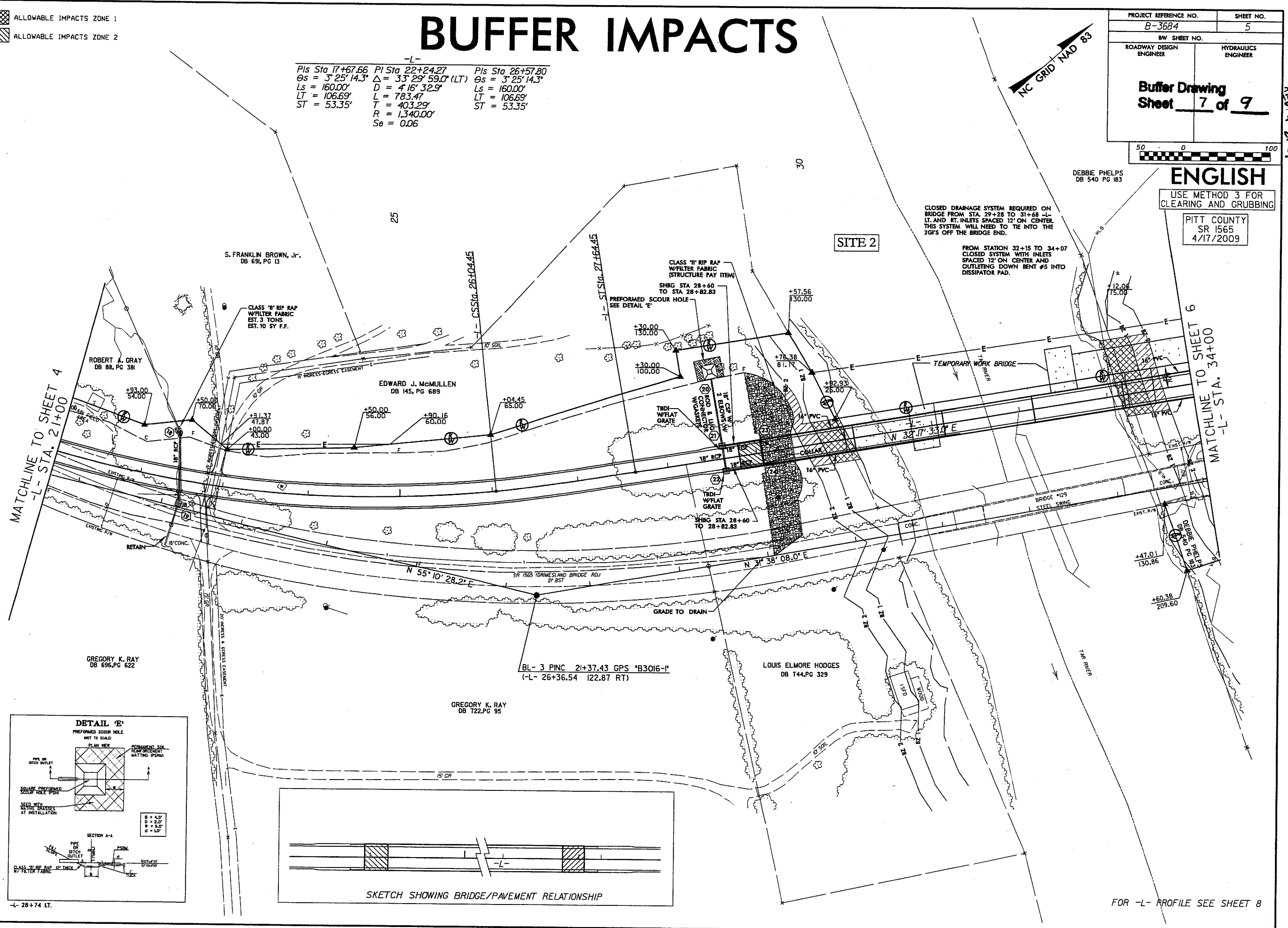
BUFFER IMPACTS

-L-
 PIs Sta 17+67.66 PI Sta 22+24.27 PIs Sta 26+57.80
 $\theta_s = 3^\circ 25' 14.3''$ $\Delta = 33^\circ 29' 59.0''$ (LT) $\theta_s = 3^\circ 25' 14.3''$
 $L_s = 160.00'$ $D = 4' 16' 32.9''$ $L_s = 160.00'$
 $LT = 106.69'$ $L = 783.47'$ $LT = 106.69'$
 $ST = 53.35'$ $T = 403.29'$ $ST = 53.35'$
 $R = 1,340.00'$
 $Se = 0.06$

PROJECT REFERENCE NO. B-3684	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Buffer Drawing Sheet 7 of 9	
50 0 100	

ENGLISH
 USE METHOD 3 FOR CLEARING AND GRUBBING
 PITT COUNTY SR 1565
 4/17/2009

12-07-07 R/W REVISION ADJUSTED EASEMENT TO PARCEL NO.7 DUE TO PERMIT DRAWING IN THE GRIMESLAND MITIGATION SITE.



4/17/2009
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REV 4-21-09

FOR -L- PROFILE SEE SHEET 8

WETLANDS IMPACT PERMIT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Hand Clearing In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Wetland Restoration (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)
1	15+00 TO 18+50	3@48" & 1@72" RCP	0.35		<.01		0.08		0.04			181	
2	29+18 TO 60+65 (Tar River and Floodplain)	15@100ft & 5@90 ft 54" prestressed girder bridge (L = 1950 ft.)											
		Impacts due to bridge construction	0.06	0.01		3.15		3.05					
		Impacts due to roadway fill	0.65				0.21						
TOTALS:			1.06	0.01	<.01	3.15	0.29	3.05	0.07	0	0	181	0





NCDOT

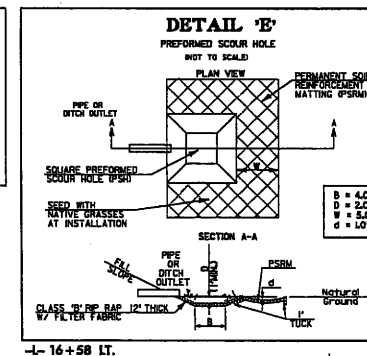
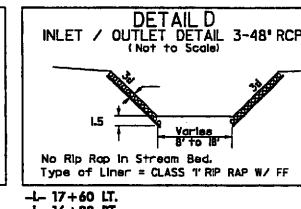
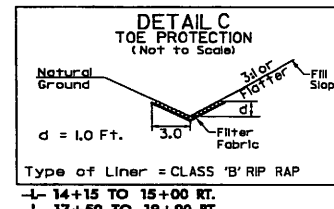
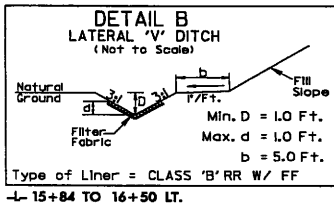
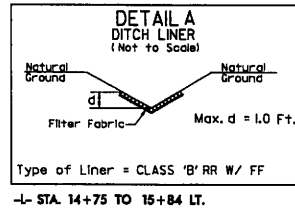
DIVISION OF HIGHWAYS
PITT COUNTY
PROJECT 333225.1.1.0 (B-3684)
BRIDGES NO. 129 OVER TAR RIVER
AND BRIDGE NO. 127 OVER TAR RIVER
OVERFLOW ON SR 1565

SHEET OF 4/17/2009

Form Revised 3/22/01

Permit Drawing
Sheet 5 of 35
Revised 4-17-09

-  DENOTES FILL IN WETLAND
-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN SURFACE WATER
-  DENOTES MECHANIZED CLEARING



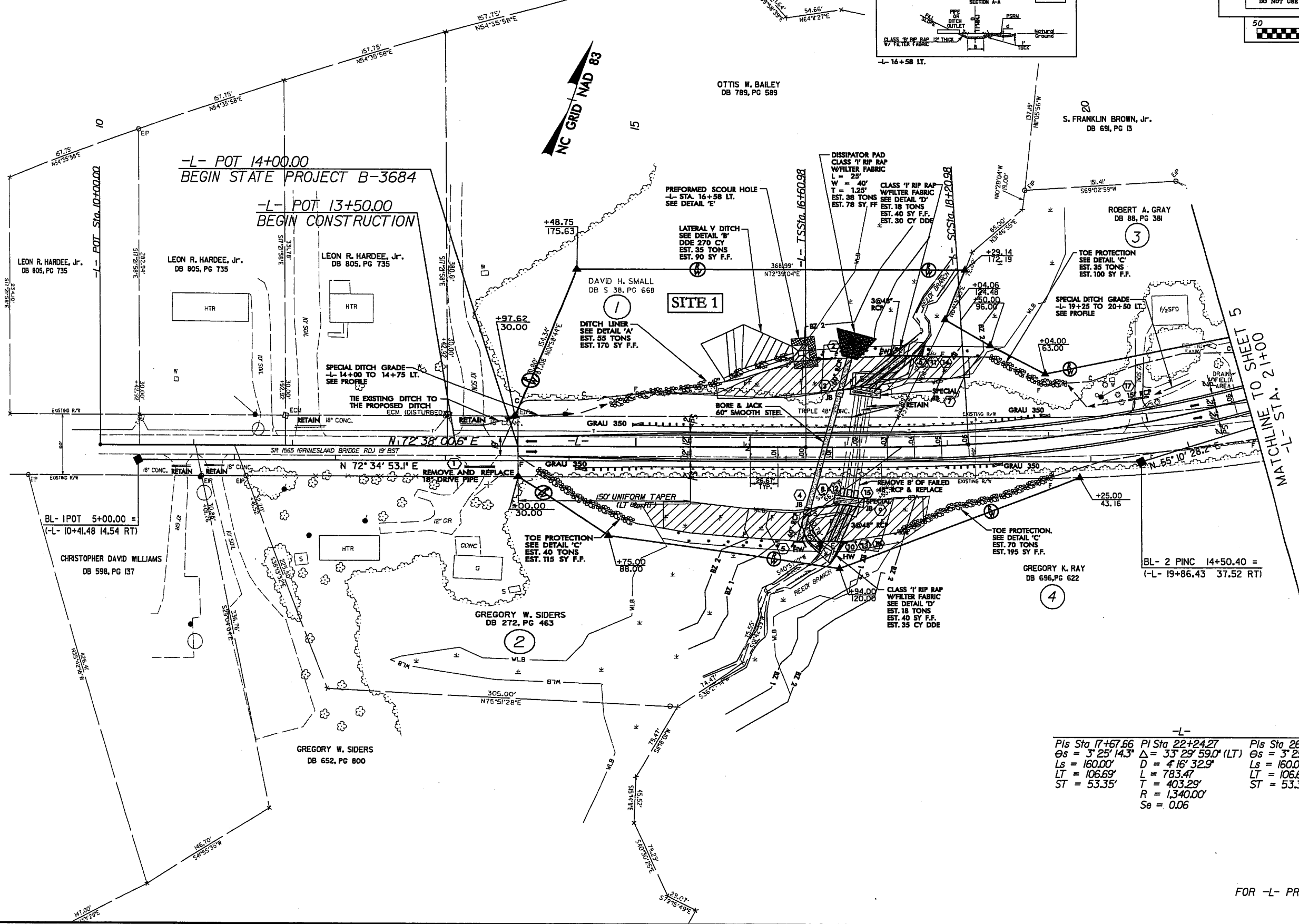
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USE METHOD 3 FOR CLEARING AND GRUBBING

PITT COUNTY
SR 1565
4/17/2009

PROJECT REFERENCE NO. B-3684	SHEET NO. 4
RWY SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing	
Sheet <u>6</u> of <u>35</u>	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
INCOMPLETE PLANS DO NOT USE FOR L/W ACQUISITION	
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REVISIONS 4-17-09



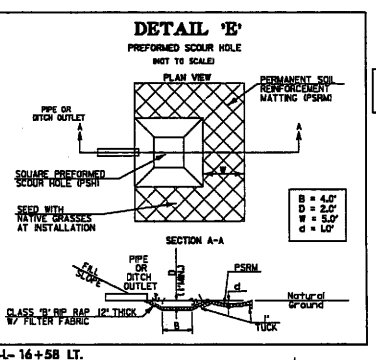
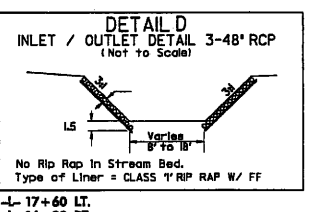
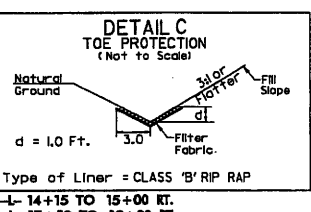
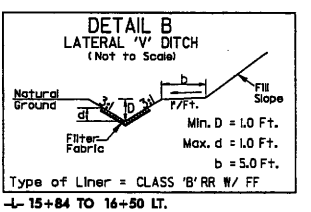
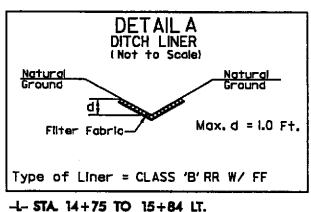
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	$ST = 53.35'$	$T = 403.29'$	$ST = 53.35'$
		$R = 1,340.00'$	
		$Se = 0.06$	

FOR -L- PROFILE SEE SHEET 8

4/17/2009 R:\Hydromat\Projects\B-3684-Hyd\pmm\see\sh6.dgn

8/17/99

- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN SURFACE WATER
- DENOTES MECHANIZED CLEARING



ENGLISH

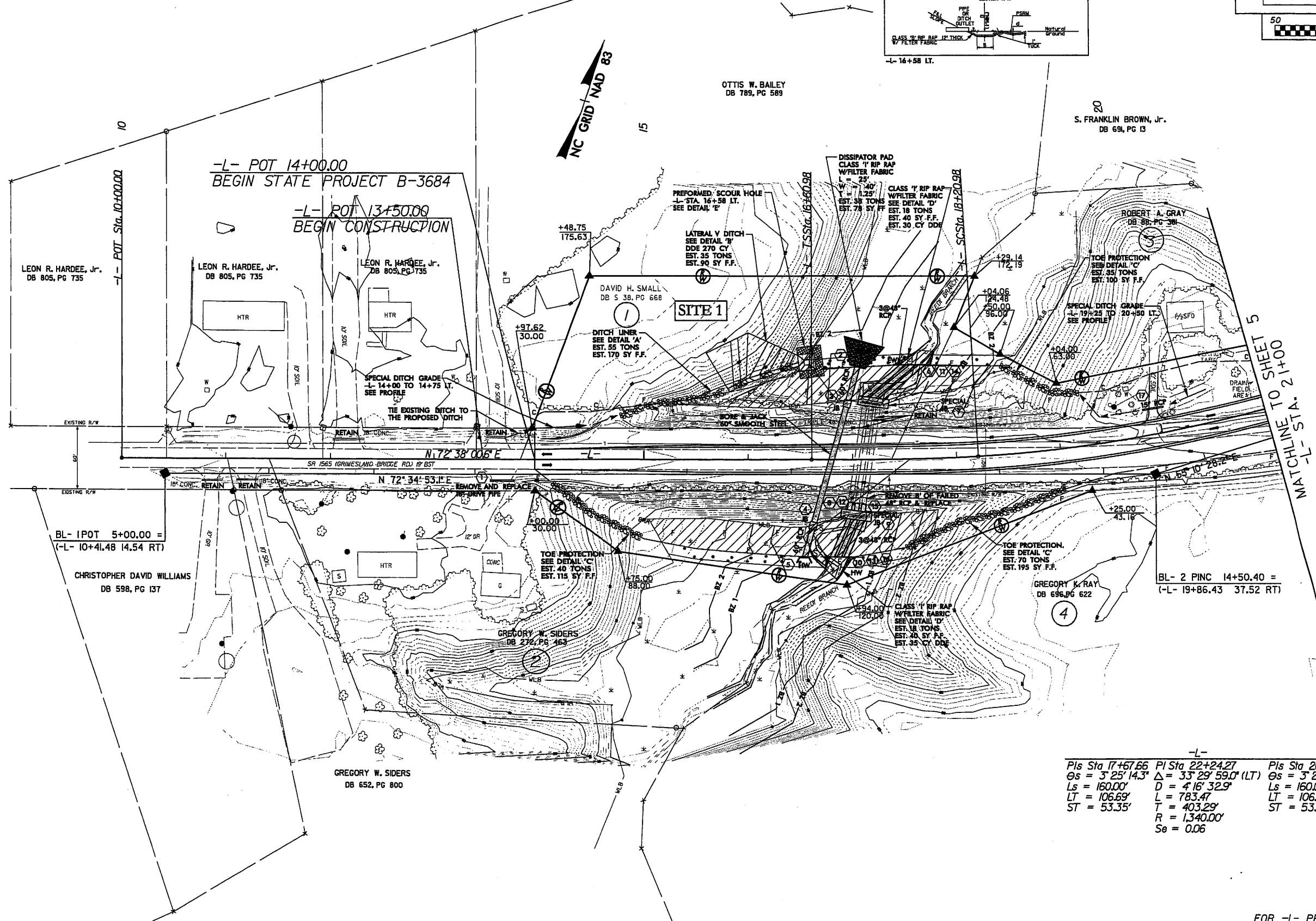
USE METHOD 3 FOR CLEARING AND GRUBBING

PITT COUNTY
SR 1565
4/17/2009

PROJECT REFERENCE NO. B-3684	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing	
Sheet 7 of 35	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
INCOMPLETE PLANS DO NOT USE FOR I/W ACQUISITION	
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REVISED 4-17-09

REVISIONS



-L-





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Os = 3' 25" 14.3"	Δ = 33' 29" 59.0" (LT)	Os = 3' 25" 14.3"
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	R = 1,340.00'	
	Se = 0.06	

FOR -L- PROFILE SEE SHEET 8

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-  DENOTES HAND CLEARING
-  DENOTES FILL IN SURFACE WATER
-  DENOTES RESTORED WETLANDS
-  DENOTES FILL IN WETLAND

-L-

Pls Sta 17+67.66	PI Sta 22+24.27	Pls Sta 26+57.80
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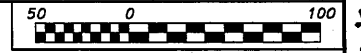
PROJECT REFERENCE NO. B-3684	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Permit Drawing
Sheet 8 of 35

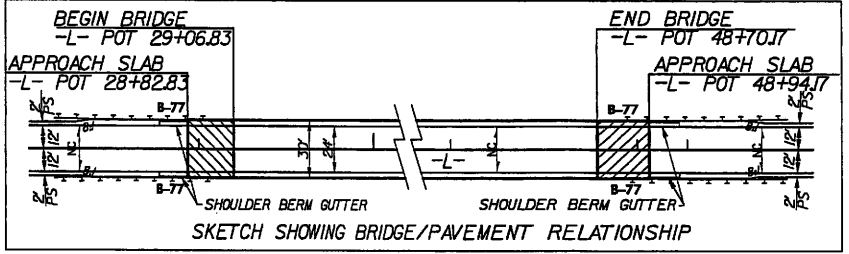
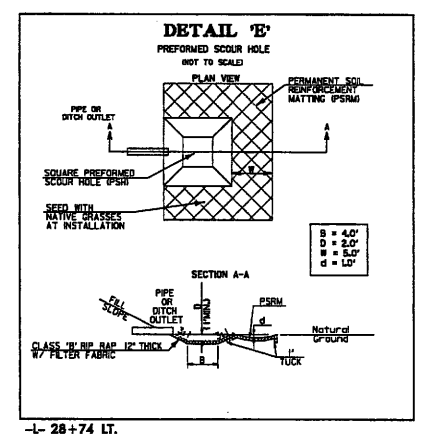
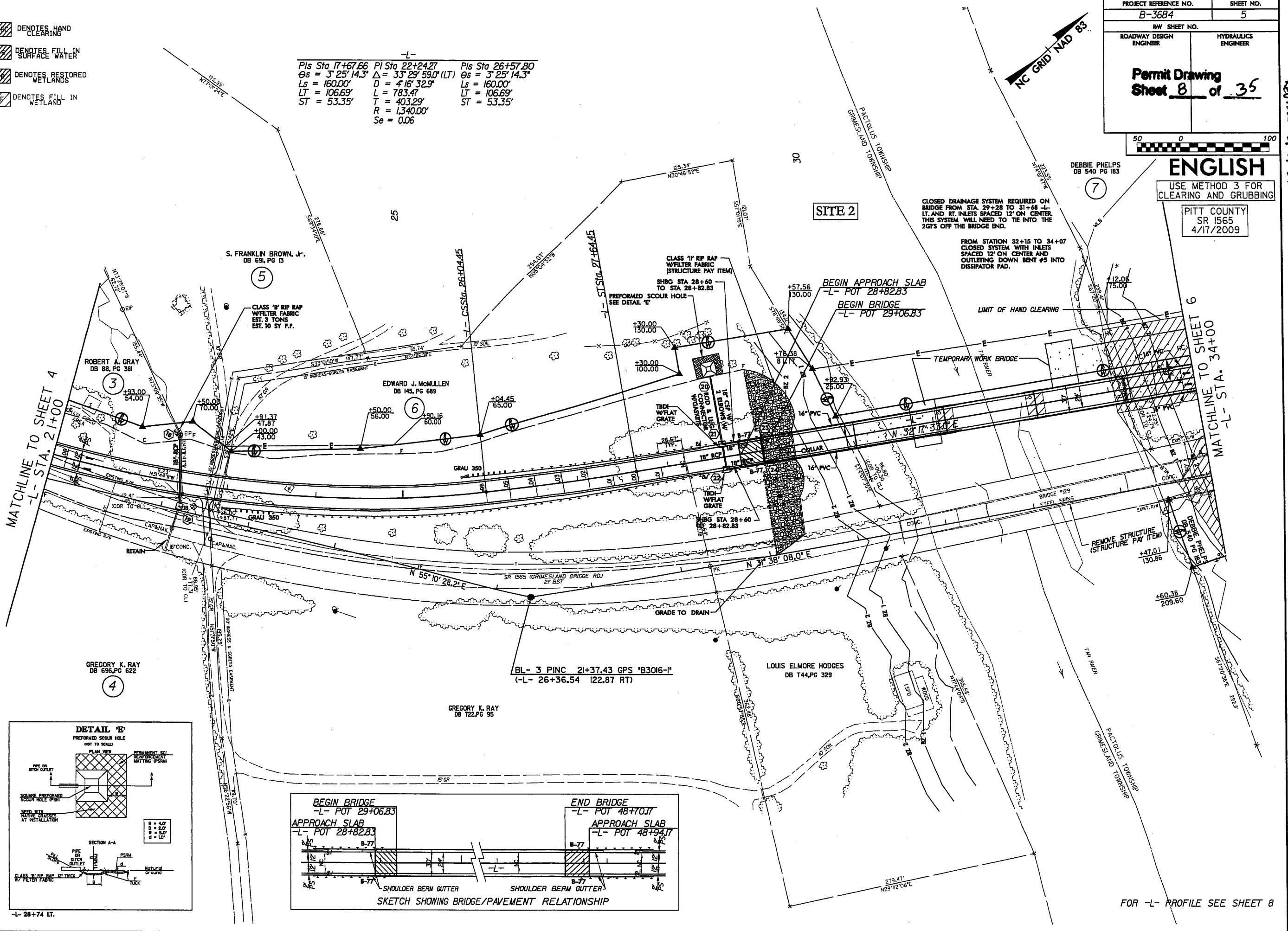
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USE METHOD 3 FOR CLEARING AND GRUBBING

PITT COUNTY
SR 1565
4/17/2009



REVISIONS
12-07-07 R/W REVISION ADJUSTED EASEMENT TO PARCEL NO.7 DUE TO PERMIT DRAWING IN THE GRIMESLAND MITIGATION SITE.







FOR -L- PROFILE SEE SHEET 8

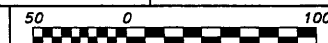
REVISED 4-17-09

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4/17/2009
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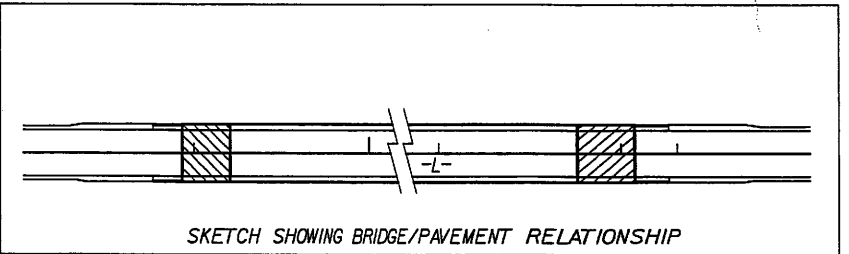
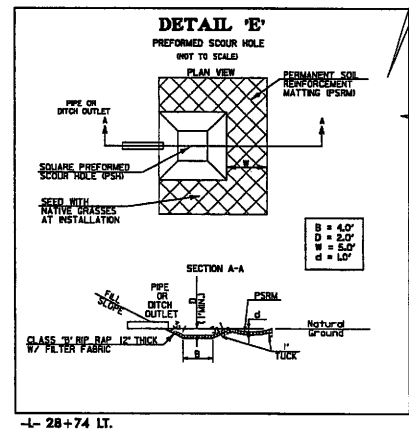
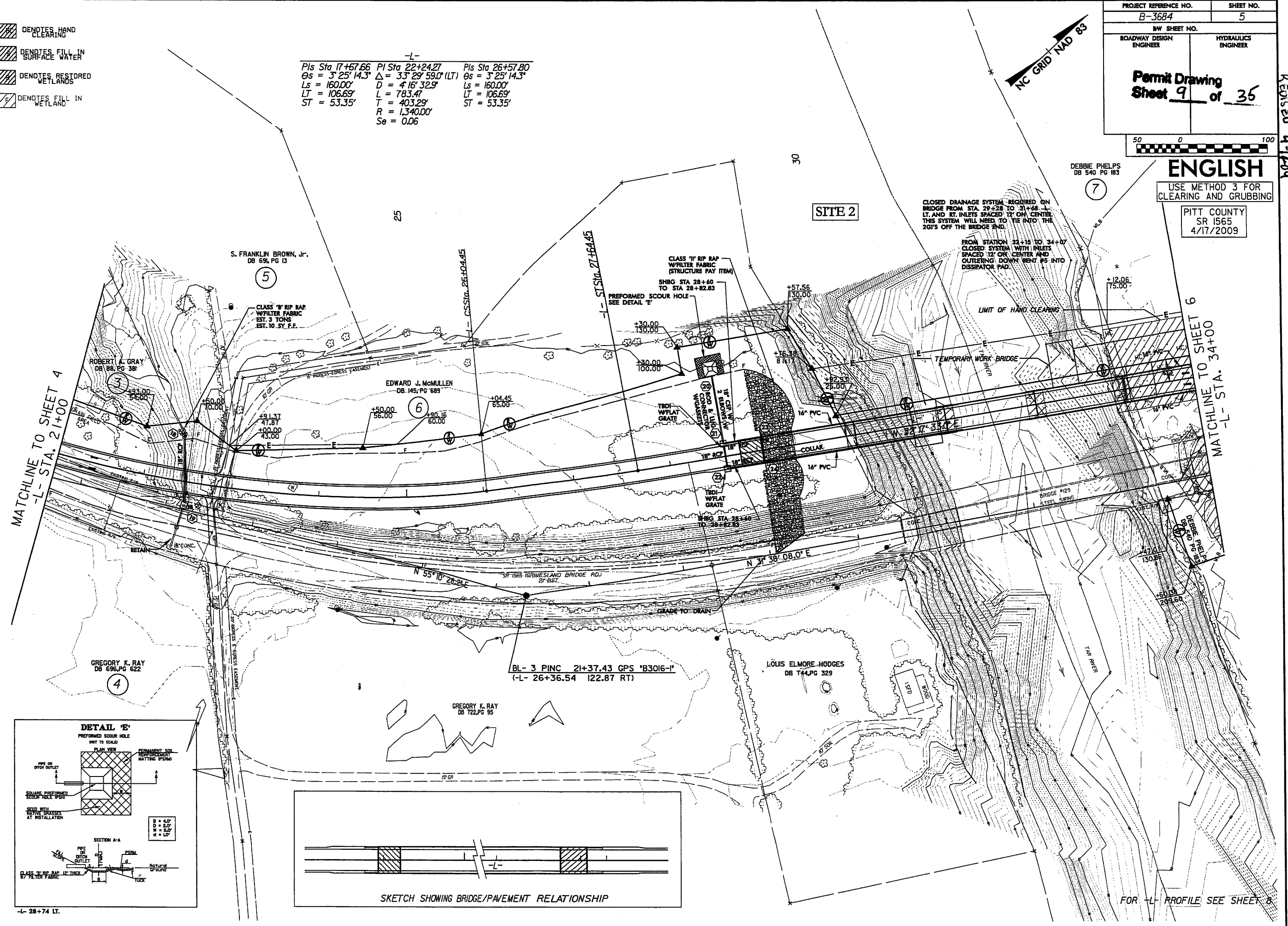
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-  DENOTES FILL IN SURFACE WATER
-  DENOTES RESTORED WETLANDS
-  DENOTES FILL IN WETLAND

-L-		
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$LT = 106.69'$	$L = 783.47'$	$LT = 106.69'$
$ST = 53.35'$	$T = 403.29'$	$ST = 53.35'$
	$R = 1,340.00'$	
	$Se = 0.06$	

PROJECT REFERENCE NO. B-3684	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing Sheet 9 of 36	
	

ENGLISH
USE METHOD 3 FOR CLEARING AND GRUBBING
PITT COUNTY
SR 1565
4/17/2009

REVISIONS
12-07-07 RAW REVISION ADJUSTED EASEMENT TO PARCEL NO.7 DUE TO PERMIT DRAWING IN THE GRIMESLAND MITIGATION SITE.



FOR -L- PROFILE SEE SHEET 8

REVISED 4-17-09

8/17/99

- DENOTES RESTORED WETLANDS
- DENOTES HAND CLEARING
- DENOTES FILL IN WETLAND

BEGIN CONSTRUCTION
-YI- POT Sta. 10+00.00

~~-YI-~~
 PI Sta. 14+90.39
 $\Delta = 453' 06.0" (RT)$
 $D = 729' 14.3"$
 $L = 652.4'$
 $T = 326.4'$
 $R = 765.24'$



PROJECT REFERENCE NO. B-3684	SHEET NO. 6
NW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing Sheet <u>10</u> of <u>35</u>	

REVISED 4-11-09

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NO REFERENCE

8

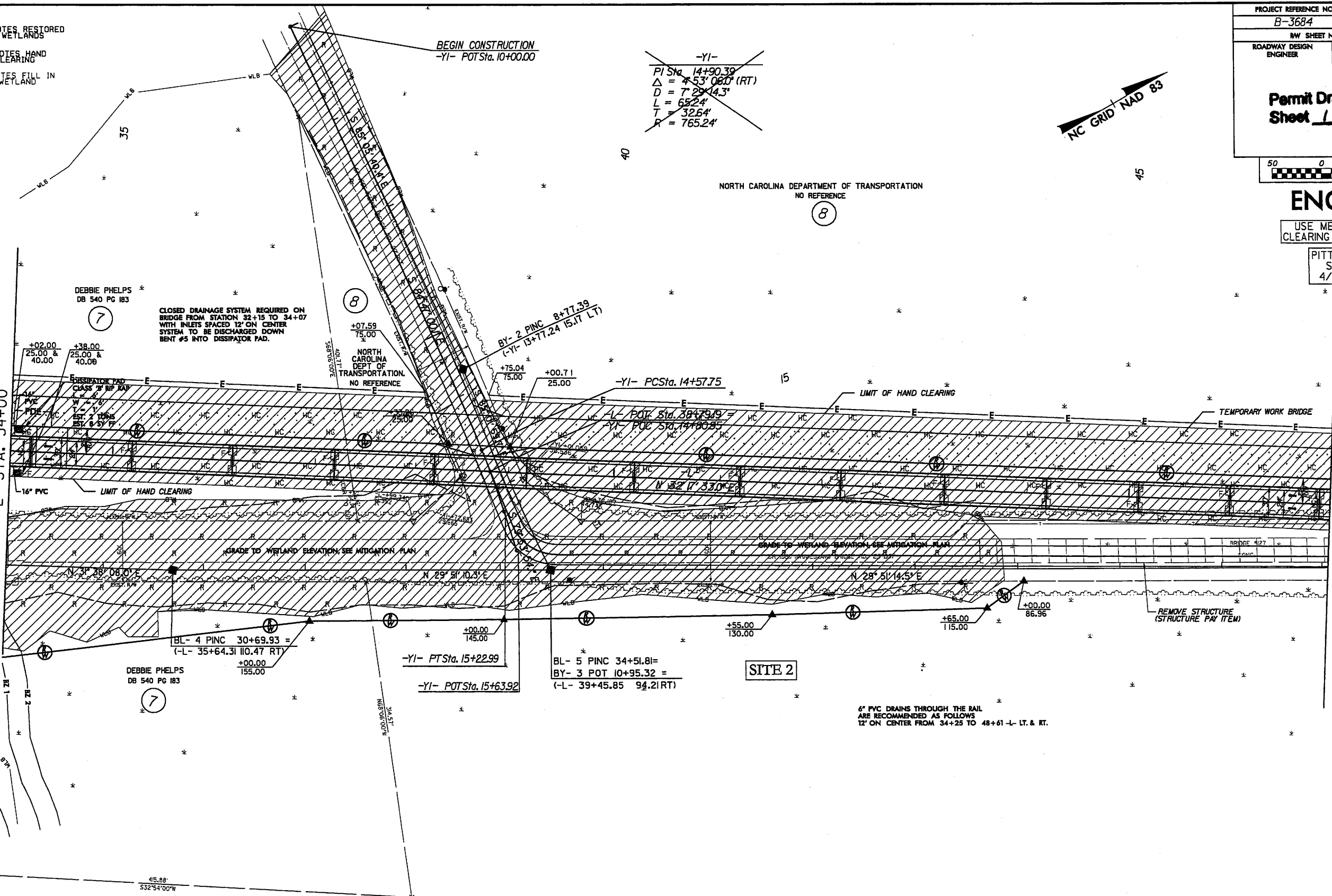
ENGLISH

USE METHOD 3 FOR
CLEARING AND GRUBBING

PITT COUNTY
SR 1565
4/17/2009

MATCHLINE TO SHEET 5
-L- STA. 34+00

MATCHLINE TO SHEET 7
-L- STA. 47+00



CLOSED DRAINAGE SYSTEM REQUIRED ON
BRIDGE FROM STATION 32+15 TO 34+07
WITH INLETS SPACED 12' ON CENTER
SYSTEM TO BE DISCHARGED DOWN
BENT #5 INTO DISSIPATOR PAD.

DISSIPATOR PAD
CLASS 3 RIP RAP
EST. 2 TONS
EST. 8 SY FT

NORTH CAROLINA
DEPT OF
TRANSPORTATION
NO REFERENCE

BY- 2 PINC 8+77.39
(-YI- 13+77.24 15.17 LT)

-YI- PCSta. 14+57.75

POT Sta. 38+79.99
POT Sta. 14+00.85

16" PVC
LIMIT OF HAND CLEARING

GRADE TO WETLAND ELEVATION SEE MITIGATION PLAN

BL- 4 PINC 30+69.93 =
(-L- 35+64.31 10.47 RT)

-YI- PTSta. 15+22.99

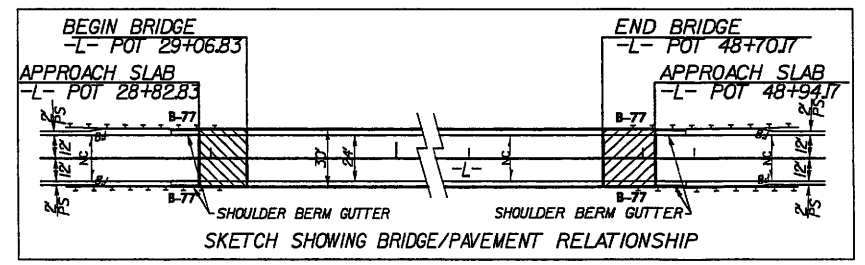
BL- 5 PINC 34+51.81 =
BY- 3 POT 10+95.32 =
(-L- 39+45.85 94.21 RT)

SITE 2

6" PVC DRAINS THROUGH THE RAIL
ARE RECOMMENDED AS FOLLOWS
12' ON CENTER FROM 34+25 TO 48+61 -L- LT. & RT.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NO REFERENCE

8






FOR -L- PROFILE SEE SHEET 8 & 9

REVISIONS
12-07-07 R/W REVISION ADJUSTED EASEMENT TO PARCEL NO.7 & NO.8 DUE TO PERMIT DRAWING IN THE GRIMESLAND MITIGATION SITE.

4/17/2009
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8/17/99

-  DENOTES RESTORED WETLANDS
-  DENOTES HAND CLEARING
-  DENOTES FILL IN WETLAND

BEGIN CONSTRUCTION
-YI- POT Sta. 10+00.00

~~-YI-~~
 PI Sta. 14+90.39
 $\Delta = 453' 08.0" (RT)$
 $D = 729' 14.3"$
 $L = 652.4'$
 $T = 326.4'$
 $R = 765.24'$



PROJECT REFERENCE NO. B-3684	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing Sheet <u>11</u> of <u>35</u>	
	

REVISED 11-17-09

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NO REFERENCE

ENGLISH

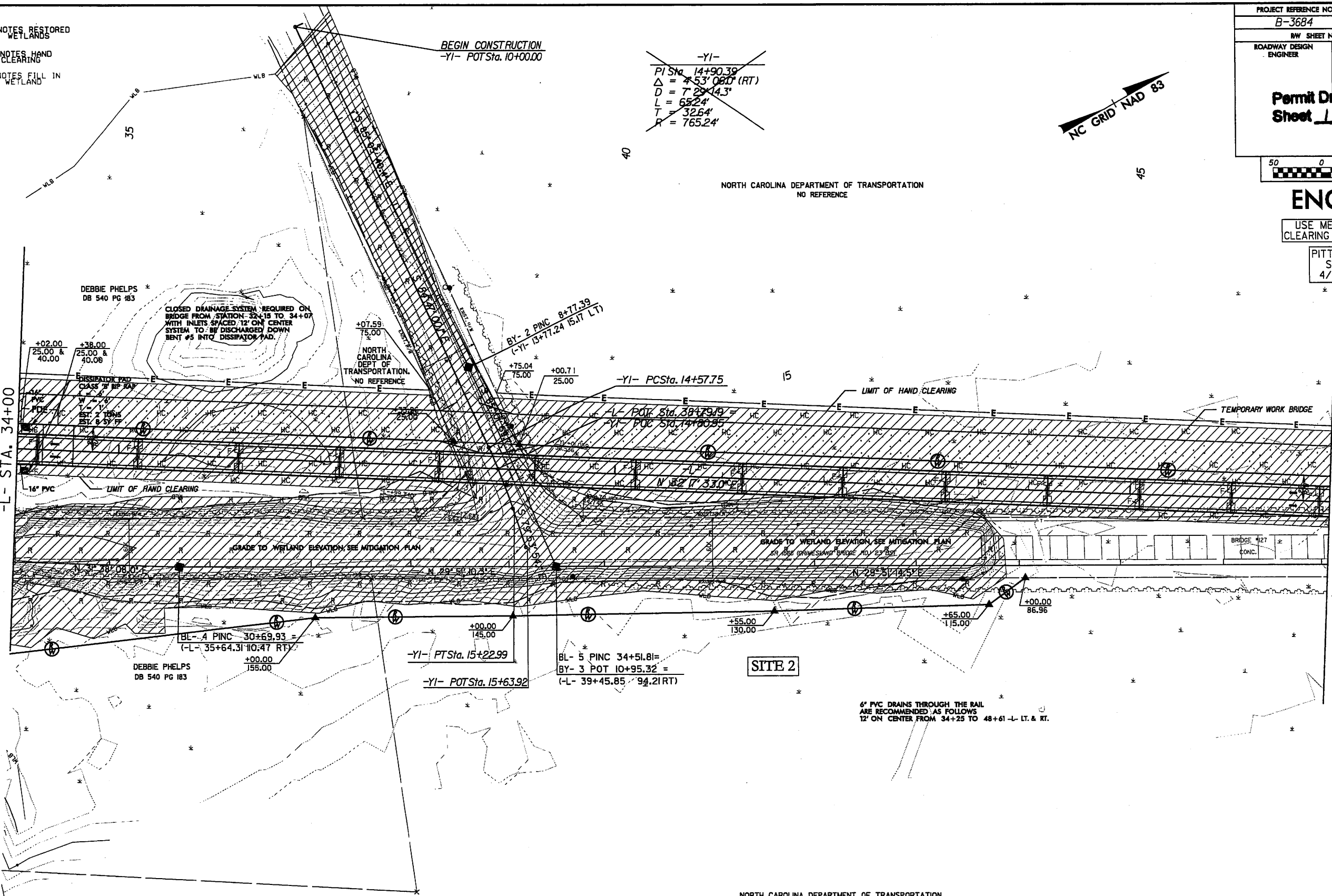
USE METHOD 3 FOR
CLEARING AND GRUBBING

PITT COUNTY
SR 1565
4/17/2009

REVISIONS
12-07-07 R/W REVISION ADJUSTED EASEMENT TO PARCEL NO.7 & NO.8 DUE TO PERMIT DRAWING IN THE GRIMESLAND MITIGATION SITE.

MATCHLINE TO SHEET 5
-L- STA. 34+00

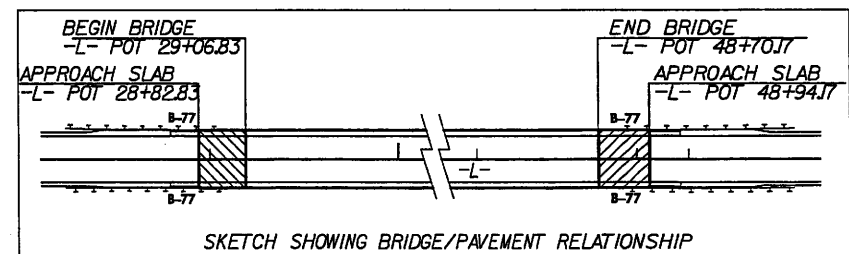
MATCHLINE TO SHEET 7
-L- STA. 47+00



SITE 2

6" PVC DRAINS THROUGH THE RAIL ARE RECOMMENDED AS FOLLOWS
12' ON CENTER FROM 34+25 TO 48+61 -L- LT. & RT.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NO REFERENCE






SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP

FOR -L- PROFILE SEE SHEET 8 & 9

4/17/2009
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8/17/99
 4/17/2009
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-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES HAND CLEARING

ENGLISH

USE METHOD 3 FOR
 CLEARING AND GRUBBING

PITT COUNTY
 SR 1565
 4/17/2009

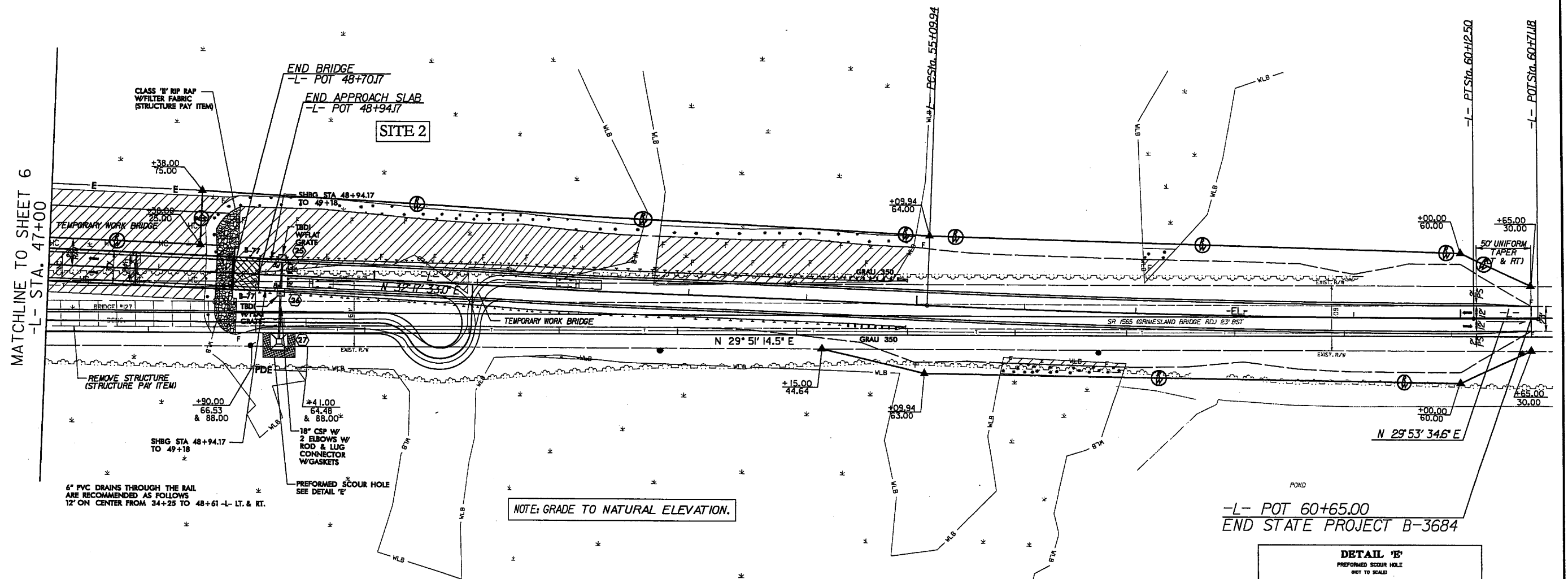


PROJECT REFERENCE NO. B-3684	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing	
Sheet 12 of 36	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
INCOMPLETE PLANS DO NOT USE FOR E/W ACQUISITION	
50 0 100	

REVISED 4-17-09

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 NO REFERENCE

8



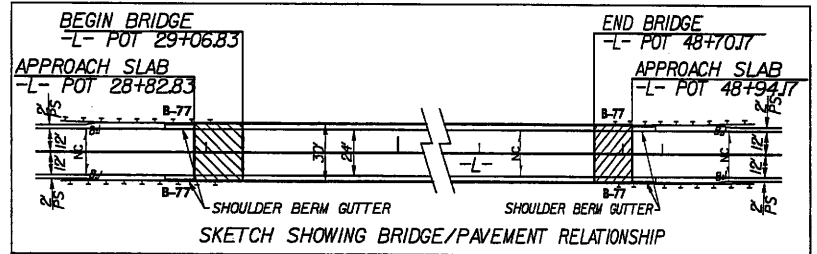
MATCHLINE TO SHEET 6
 -L- STA. 47+00

-L- POT 60+65.00
 END STATE PROJECT B-3684

REMOVE STRUCTURE (STRUCTURE PAY ITEM)
 SHBG STA 48+94.17 TO 49+18
 6" PVC DRAINS THROUGH THE RAIL ARE RECOMMENDED AS FOLLOWS
 12" ON CENTER FROM 34+25 TO 48+61 -L- LT. & RT.

18" CSP W/ 2 ELBOWS W/ ROD & LUG CONNECTOR W/GASKETS
 PREFORMED SCOUR HOLE SEE DETAIL 'B'

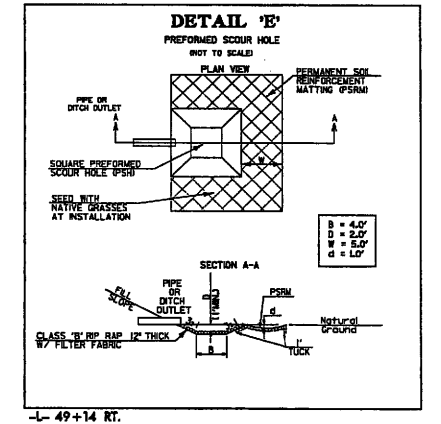
NOTE: GRADE TO NATURAL ELEVATION.



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 NO REFERENCE

8

-L-
 PI Sta 57+61.26
 $\Delta = 2^\circ 23' 58.4" (LT)$
 $D = 0' 28' 38.9"$
 $L = 502.56'$
 $T = 251.32'$
 $R = 12,000.00'$
 $Se = NC$



FOR -L- PROFILE SEE SHEET 9

8/17/99

- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES HAND CLEARING

ENGLISH

USE METHOD 3 FOR CLEARING AND GRUBBING

PITT COUNTY
SR 1565
4/17/2009



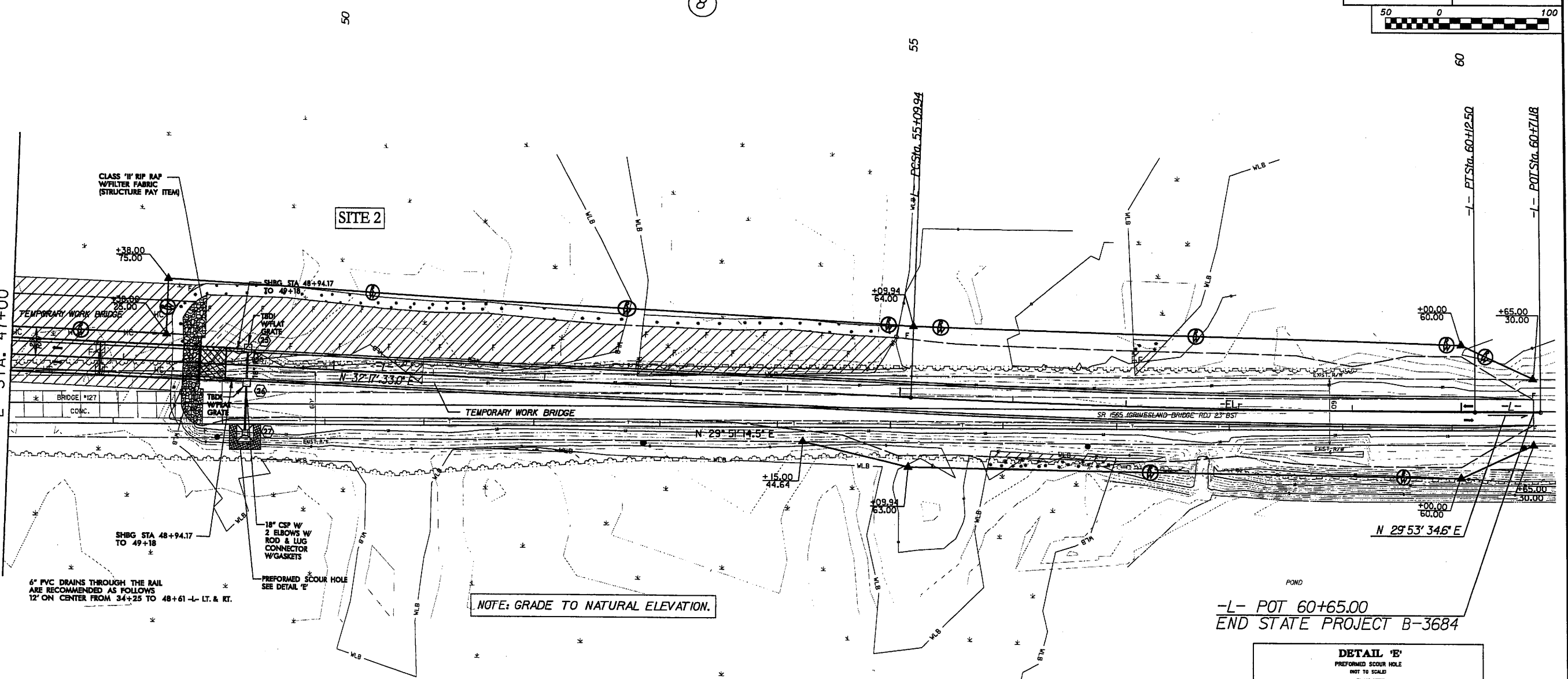
PROJECT REFERENCE NO. B-3684	SHEET NO. 7
Roadway Design Engineer	Hydraulics Engineer
Permit Drawing Sheet 13 of 36	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
50 0 100	

REVISION 11-17-09

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NO REFERENCE

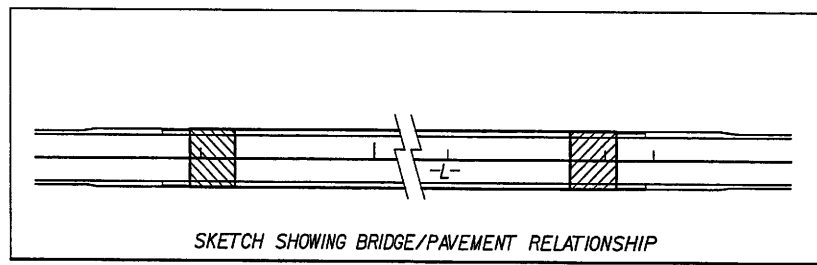
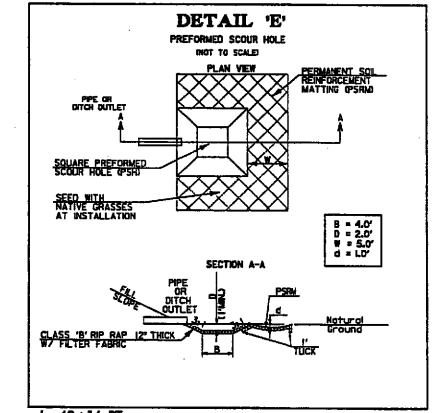
(8)

MATCHLINE TO SHEET 6
-L- STA. 47+00



NOTE: GRADE TO NATURAL ELEVATION.

-L- POT 60+65.00
END STATE PROJECT B-3684



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NO REFERENCE

(8)

-L-
 PI Sta 57+61.26
 $\Delta = 2' 23' 58.4''$ (LT)
 $D = 0' 28' 38.9''$
 $L = 502.56'$
 $T = 251.32'$
 $R = 12,000.00'$
 $Se = NC$

FOR -L- PROFILE SEE SHEET 9

REVISIONS

4/17/2009
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