



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

NICHOLAS J. TENNYSON
SECRETARY

October 1, 2015

Wilmington Regulatory Field Office
US Army Corps of Engineers
69 Darlington Avenue
Wilmington, North Carolina 28403

ATTN: Mr. Brad Shaver
NCDOT Coordinator

Dear Sir:

Subject: **Request for Modification to Individual Section 404 and Section 401 Water Quality Certification** for the proposed construction of an extension of SR 1163 (Old Georgetown Rd) from SR 1184 (Ocean Isle Beach Rd) to NC 179 in Brunswick County, State Project 6.231023, TIP R-3432. Debit \$570.00 from WBS 35501.1.1

References: Section 404 Individual Permit issued February 26, 2013 (SAW-2007-00983)
Section 401 Water Quality Certification issued January 4, 2013 (20120935)
Section 404 IP Modification issued May 27, 2014 (SAW-2007-00983)
Section 401 WQC Modification issued May 30, 2014 (20120935v2)

The purpose of this request is to modify the above referenced 404 Permit and 401 Water Quality Certification. Please see enclosed copies of the revised permit drawings and revised NCDMS acceptance letter for the above referenced project.

In order to prevent scour and undercutting the following revisions have been made:

- Site 1. Additional riprap will be added at the inlet of the 84" CAAP. Surface water impacts will increase by 0.1 acre.
- Site 2. Additional riprap will be added at the outlet of the 30" RCP in prior permitted permanent impact areas. Mechanized clearing is increasing by 0.01 acre in prior permitted permanent impact areas.
- Site 3. Additional riprap will be added at the inlet of the 72" CAAP in prior permitted permanent impact areas. Mechanized clearing is increasing by 0.02 acre in prior permitted permanent impact areas with a decrease of 0.03 acre of excavation.

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

TELEPHONE: 919-707-6000
FAX: 919-212-5785
WEBSITE: NCDOT.GOV

LOCATION:
CENTURY CENTER, BUILDING B
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

- Site 4. Additional riprap will be added at the inlet of the 54" RCP-V in prior permitted permanent impact areas.
- Site 5A. Additional riprap will be added to the bed and slopes of the relocated channel to stabilize the slopes and prevent undercutting of the log sills resulting in 97 linear ft. of permanent fill.

Regulatory Approvals

Section 404: We are hereby requesting the modification described above for the USACE Individual 404 Permit signed February 26, 2013 (SAW-2007-00983), for the above-described activities.

Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the NCDWR issued January 4, 2013 (DWQ No. 20120935). In compliance with Section 143-215.3D(e) of the NCAC, we will provide \$570.00 to act as payment for processing the Section 401 permit modification.

A copy of this modification request and its distribution list will be posted on the NCDOT website at: <https://connect.ncdot.gov/resources/Environmental>

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Tyler Stanton at 919-707-6156 or tstanton@ncdot.gov.

Sincerely,



for Richard W. Hancock, P.E., Manager
Project Development and Environmental Analysis Unit

cc:

NCDOT Permit Application Standard Distribution List

North Carolina Department of Environmental Quality

Pat McCrory
Governor

Division of Mitigation Services

Donald R. van der Vaart
Secretary

September 29, 2015

Mr. Richard W. Hancock, P.E.
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Mr. Hancock:

Subject: Revised Mitigation Acceptance Letter:

R-3432, SR 1163 (Georgetown Road Extension) from SR 1184 (Ocean Isle Beach Road) to NC 179, Brunswick County

References: USACE 404 Nationwide Permit Number 14 issued February 21, 2013 (USACE Action ID 2007-00983)

NCDWR 401 Water Quality Certification issued January 4, 2013 (NCDWR Project ID 2012-0935)

The purpose of this letter is to notify you that the North Carolina Department of Environmental Quality – Division of Mitigation Services (NCDEQ-DMS) will provide the additional stream mitigation for the subject project. Based on the information supplied by you on September 28, 2015, the additional stream impacts are located in CU 03040207 of the Lumber River Basin in the Southern Outer Coastal Plain (SOCP) Eco-Region, and are as follows:

Table 1 – Additional Impacts (feet / acres)

Lumber 03040207 SOCP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1 (3:1)	Zone 2 (1.5:1)
Impacts (feet/acres)	0	0	97.0	0	0	0	0	0

*Some of the stream impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details. NCDEQ-DMS will provide the amount of mitigation as determined by the regulatory agencies.

These impacts and associated mitigation needs were not projected by the NCDOT in the 2015 impact data. NCDEQ-DMS is currently providing stream and riparian wetland mitigation for the impacts associated with this project located in cataloging unit 03040207 of the Lumber River basin as required by the 404 and 401 permits that were issued in 2013, as shown in the below table (in mitigation credits):

Mr. Hancock
TIP R-3432 Additional
September 29, 2015
Page Two

Table 2 – Current Permitted Impacts and Mitigation Requirements (based on 2013 permits) and Revised Anticipated Impacts (based on mitigation request)

Impact Type	Total Permitted Impacts (feet / acre)	Mitigation Provided by NCDEQ-DMS per Issued Permits (Credits)	Additional Impact (for approval)	Revised Total Impacts*
Stream (Warm)	239.0	458.50	97.0	336.0
Riparian Wetland	0.73	1.46	0	0.73

*Some of the stream impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details. NCDEQ-DMS will provide the amount of mitigation as determined by the regulatory agencies.

NCDEQ-DMS has previously made debits for the stream mitigation requirements to mitigation sites available in the cataloging unit based on the amounts required in the 404 and 401 permits issued in 2013. **This mitigation acceptance letter replaces the mitigation acceptance letter that was issued on June 7, 2012.** This impact and associated mitigation need were under projected by the NCDOT in the 2015 impact data. NCDEQ-DMS will commit to implement sufficient compensatory stream mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from NCDEQ-DMS.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

Sincerely,

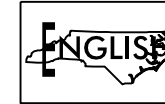


James B. Stanfill
Asset Management Supervisor

Cc: Mr. Brad Shaver, USACE – Wilmington Regulatory Field Office
Ms. Amy Chapman, NC Division of Water Resources
Ms. Linda Fitzpatrick, NCDOT – PDEA
File: R-3432 Additional

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

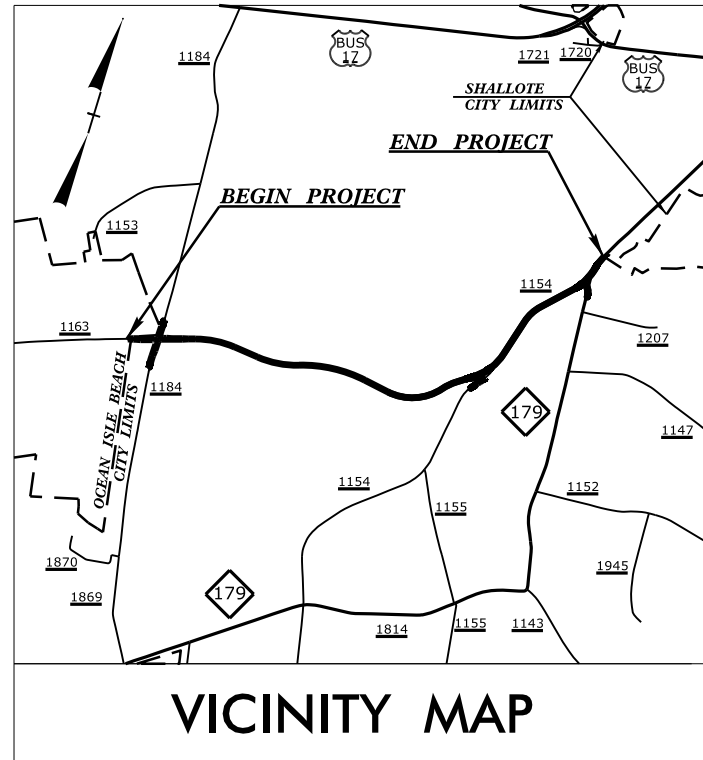


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3432	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
35501.1.1		P.E.	
35501.2.1		RW, UTL.	
35501.3.D1		CONST.	

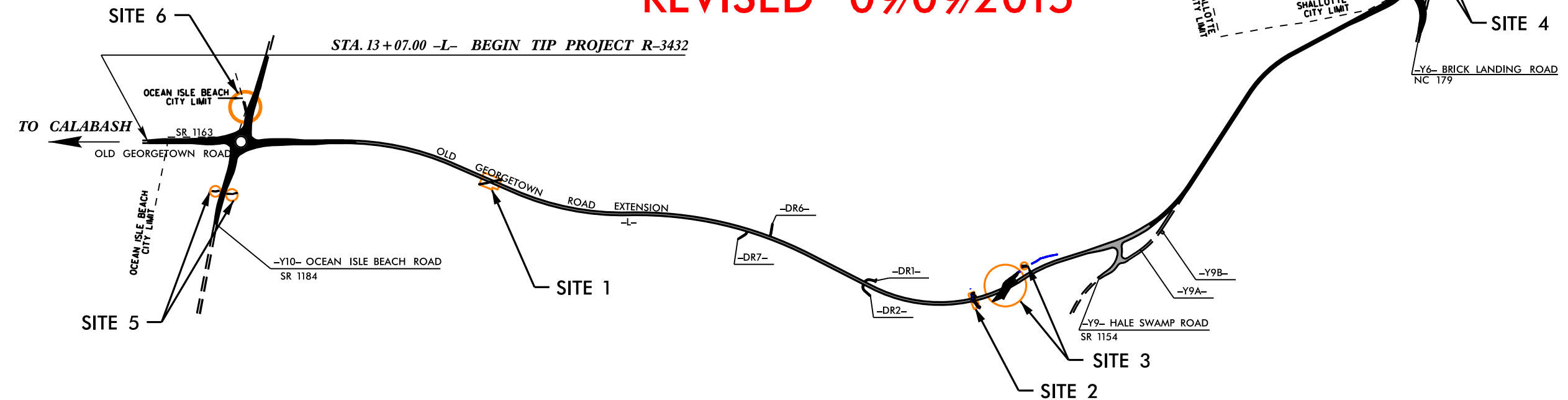
BRUNSWICK COUNTY

LOCATION: SR 1163 (OLD GEORGETOWN ROAD EXTENSION) FROM SR 1184 (OCEAN ISLE BEACH ROAD) TO NC 179

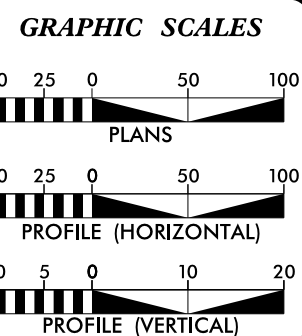
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND WIDENING



**WETLAND & SURFACE WATER
PERMIT DRAWING
REVISED 09/09/2015**



THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.



DESIGN DATA

ADT 2013 =	7,312
ADT 2033 =	12,592
DHV =	55 %
D =	13 %
T =	3 % *
V =	60 MPH
* (TTST 1 % + DUAL 2 %)	
FUNC. CLASS. =	COLLECTOR
SUB-REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-3432	=	2.859 MILES
TOTAL LENGTH TIP PROJECT R-3432	=	2.859 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: NOVEMBER 29, 2011	G. E. BREW, PE PROJECT ENGINEER
LETTING DATE: DECEMBER 17, 2013	THAD F. DUNCAN, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

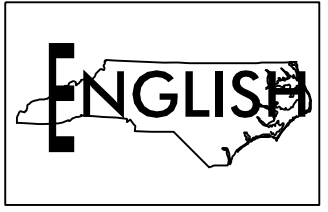
SIGNATURE: _____ P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER

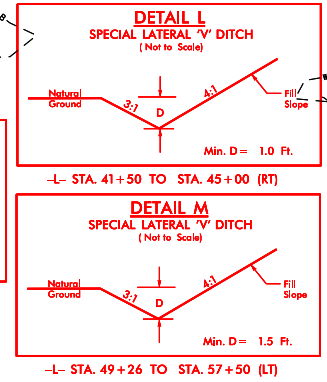
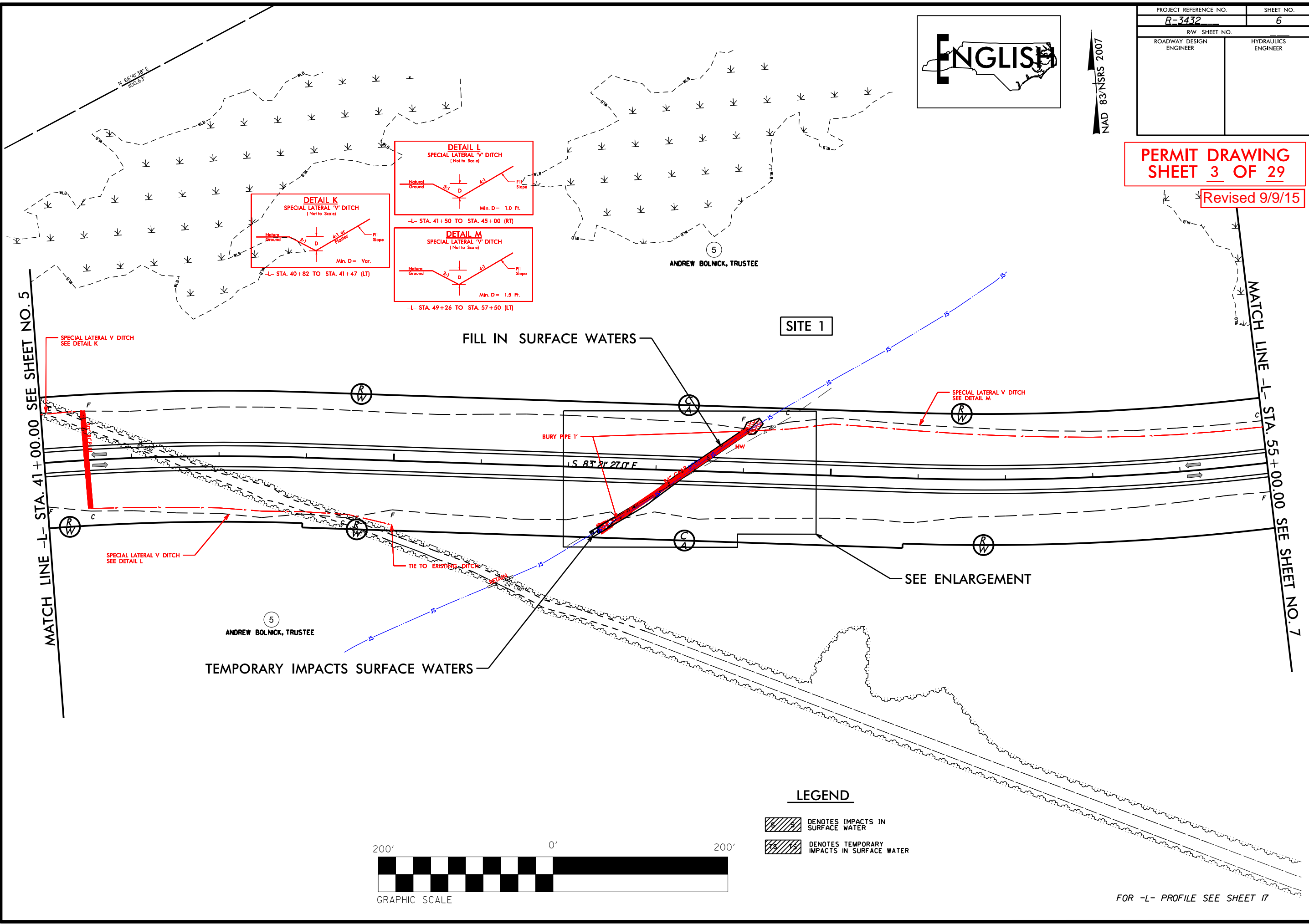
CONTRACT: C203163
 TIP PROJECT: R-3432
 09/08/09

PROJECT REFERENCE NO. R-3432	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NAD 83/NSRS 2007

PERMIT DRAWING
SHEET 3 OF 29
Revised 9/9/15



SITE 1

FILL IN SURFACE WATERS

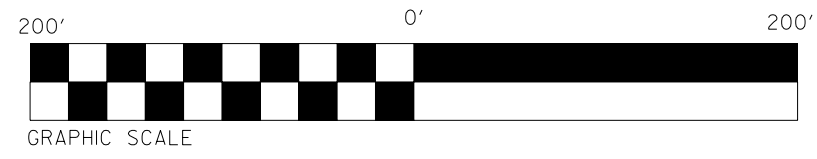
TEMPORARY IMPACTS SURFACE WATERS

MATCH LINE -L- STA. 41 + 00.00 SEE SHEET NO. 5

MATCH LINE -L- STA. 55 + 00.00 SEE SHEET NO. 7

LEGEND

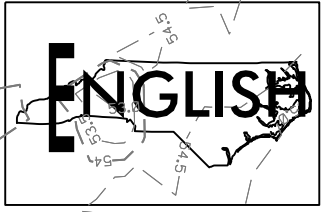
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



FOR -L- PROFILE SEE SHEET 17

8/17/99
\$\$\$\$
\$TIME
\$DESIGN
\$DATE
\$

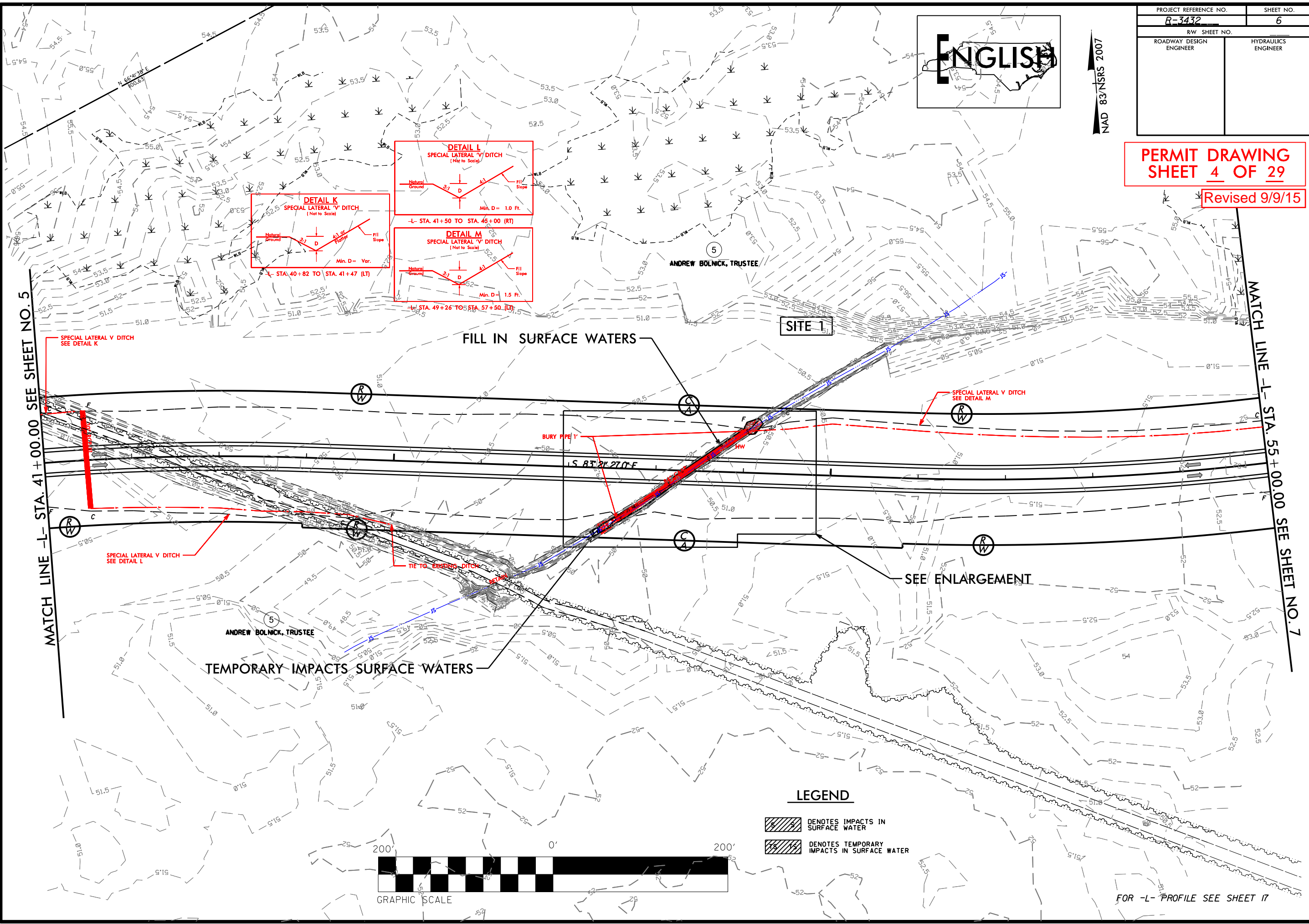
PROJECT REFERENCE NO. R-3432	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NAD 83/NSRS 2007

**PERMIT DRAWING
SHEET 4 OF 29**

Revised 9/9/15



MATCH LINE -L- STA. 41 + 00.00 SEE SHEET NO. 5

MATCH LINE -L- STA. 55 + 00.00 SEE SHEET NO. 7

FILL IN SURFACE WATERS



TEMPORARY IMPACTS SURFACE WATERS

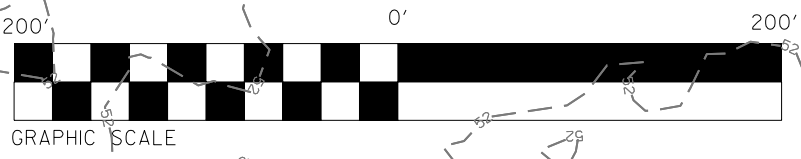
SITE 1

BURIED PIPE
S. 83' 21" 270' E

SEE ENLARGEMENT


LEGEND

-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER









FOR -L- PROFILE SEE SHEET 17

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 \$\$\$\$LAYOUT\$\$\$\$
 \$\$\$\$DESIGN\$\$\$\$
 \$\$\$\$CHECK\$\$\$\$
 \$\$\$\$DATE\$\$\$\$

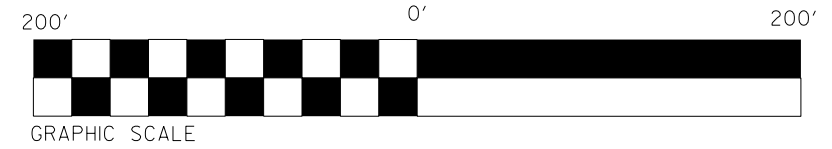
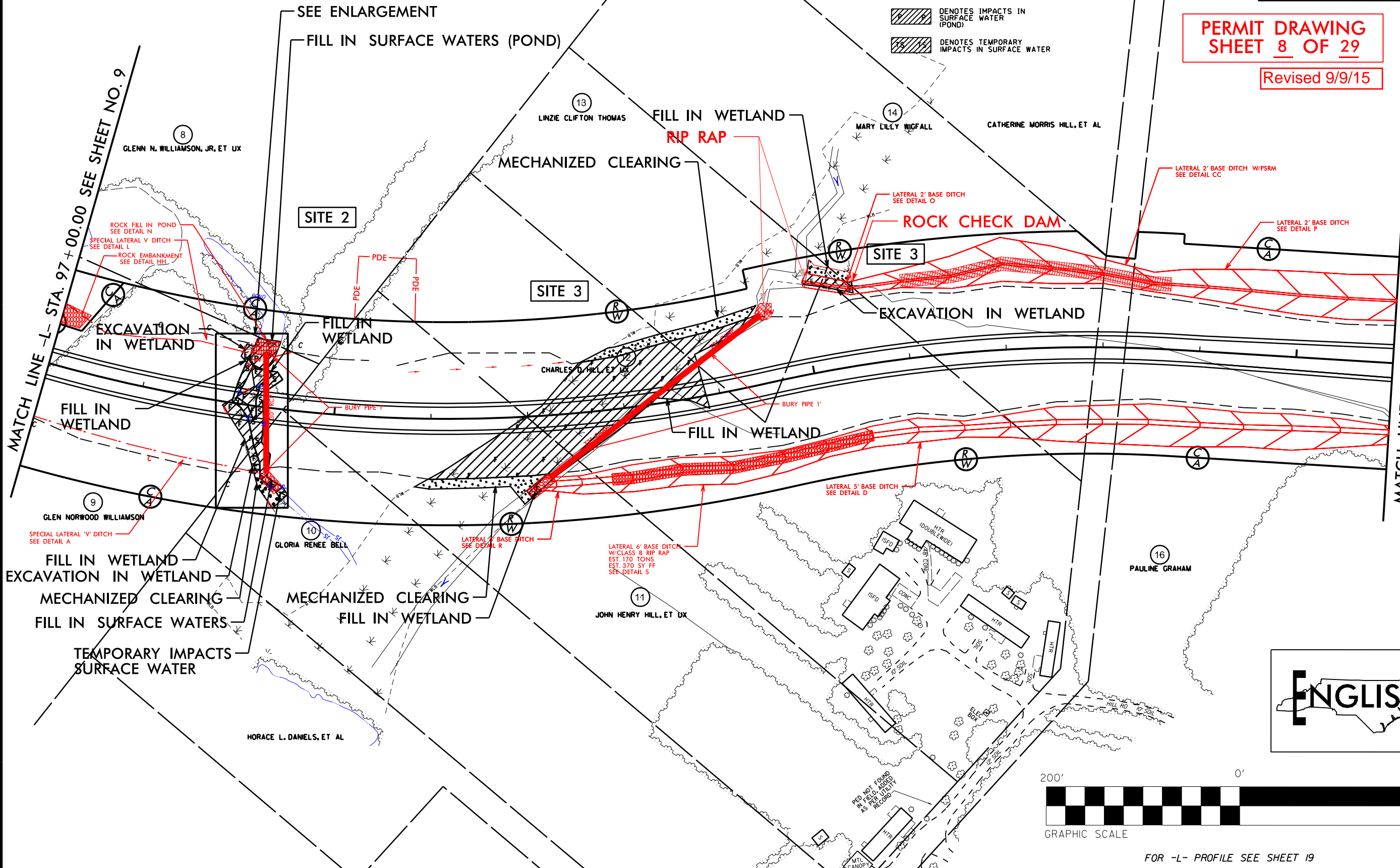
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	THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.
	Paul Atkins, PE 06/03/2015

PERMIT DRAWING
SHEET 8 OF 29
Revised 9/9/15

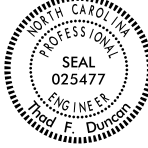
LEGEND

-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES IMPACTS IN SURFACE WATER (POND)
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER

REVISIONS
 8/17/99
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






FOR -L- PROFILE SEE SHEET 19

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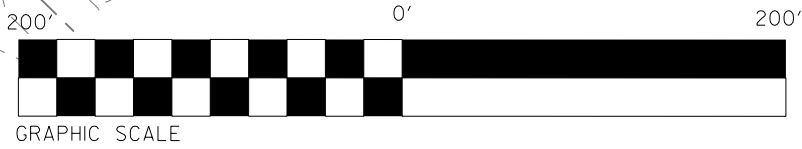
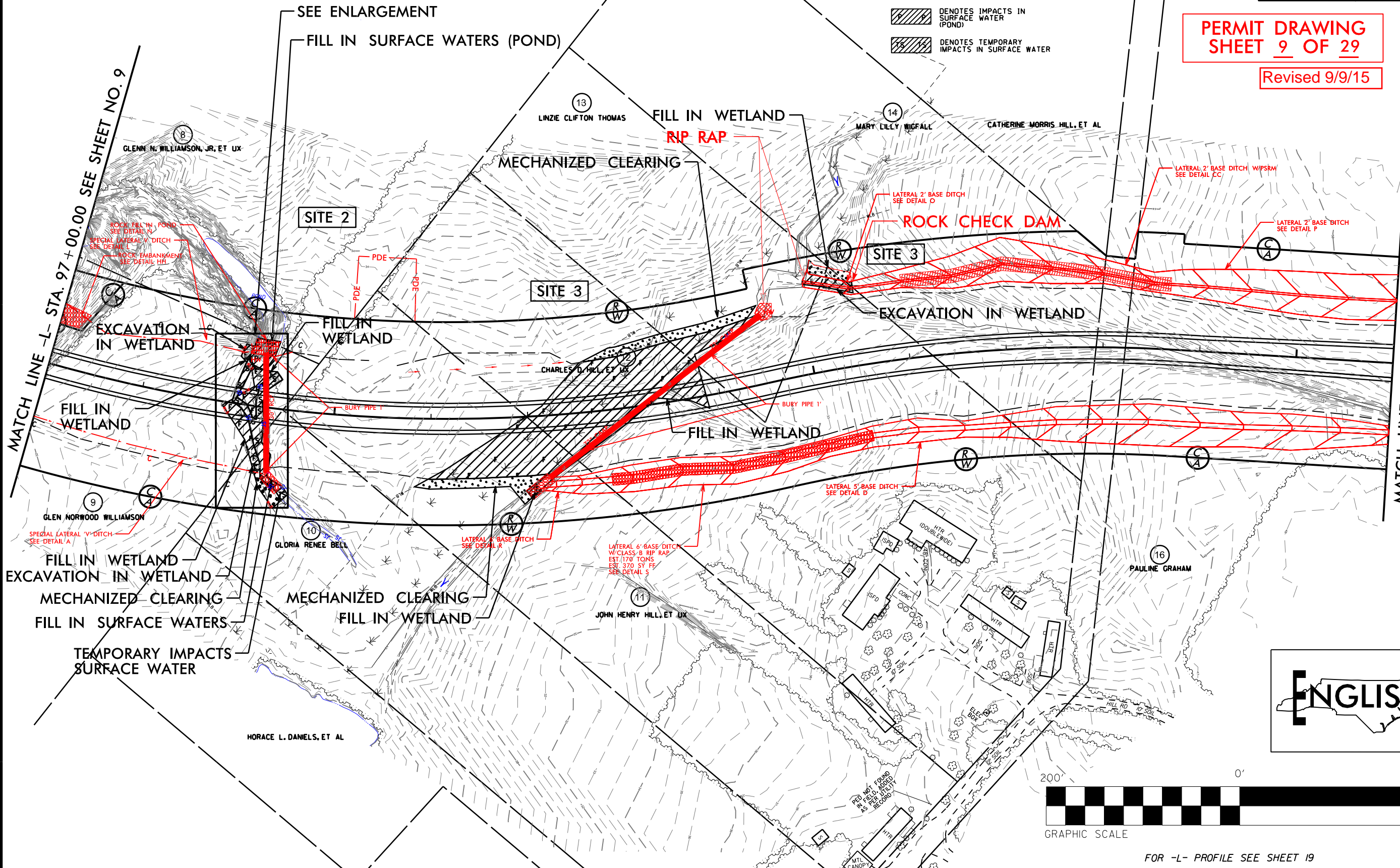
PERMIT DRAWING
SHEET 9 OF 29
Revised 9/9/15

LEGEND

-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES IMPACTS IN SURFACE WATER (POND)
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER



REVISIONS
 8/17/99
 RW REV: REVISED PERMANENT DRAINAGE EASEMENT ON PARCEL 8 AT -L- STA. 100+50 LT. 6/11/15 GSB



FOR -L- PROFILE SEE SHEET 19

5/28/99

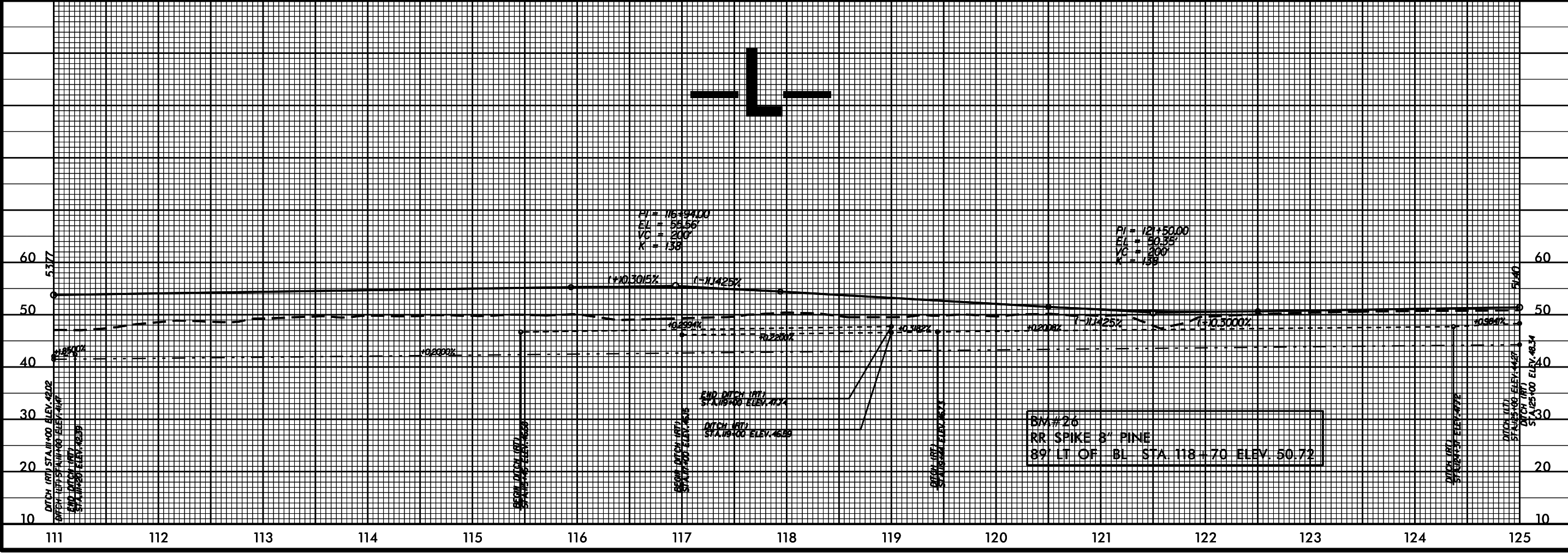
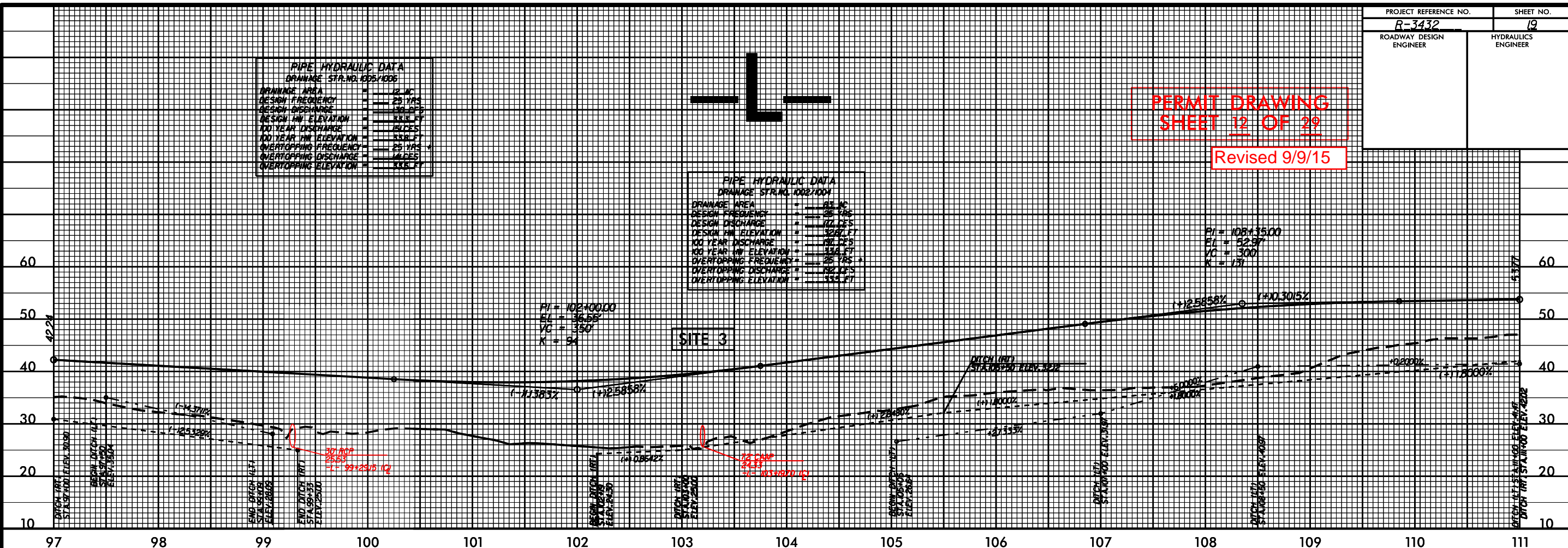
PIPE HYDRAULIC DATA
DRAINAGE STR. NO. 1005/1006

DRAINAGE AREA	12 AC
DESIGN FREQUENCY	25 YRS
DESIGN DISCHARGE	136 CFS
DESIGN HW ELEVATION	338.5 FT
100 YEAR DISCHARGE	150 CFS
100 YEAR HW ELEVATION	338 FT
OVERTOPPING FREQUENCY	25 YRS
OVERTOPPING DISCHARGE	145 CFS
OVERTOPPING ELEVATION	338 FT

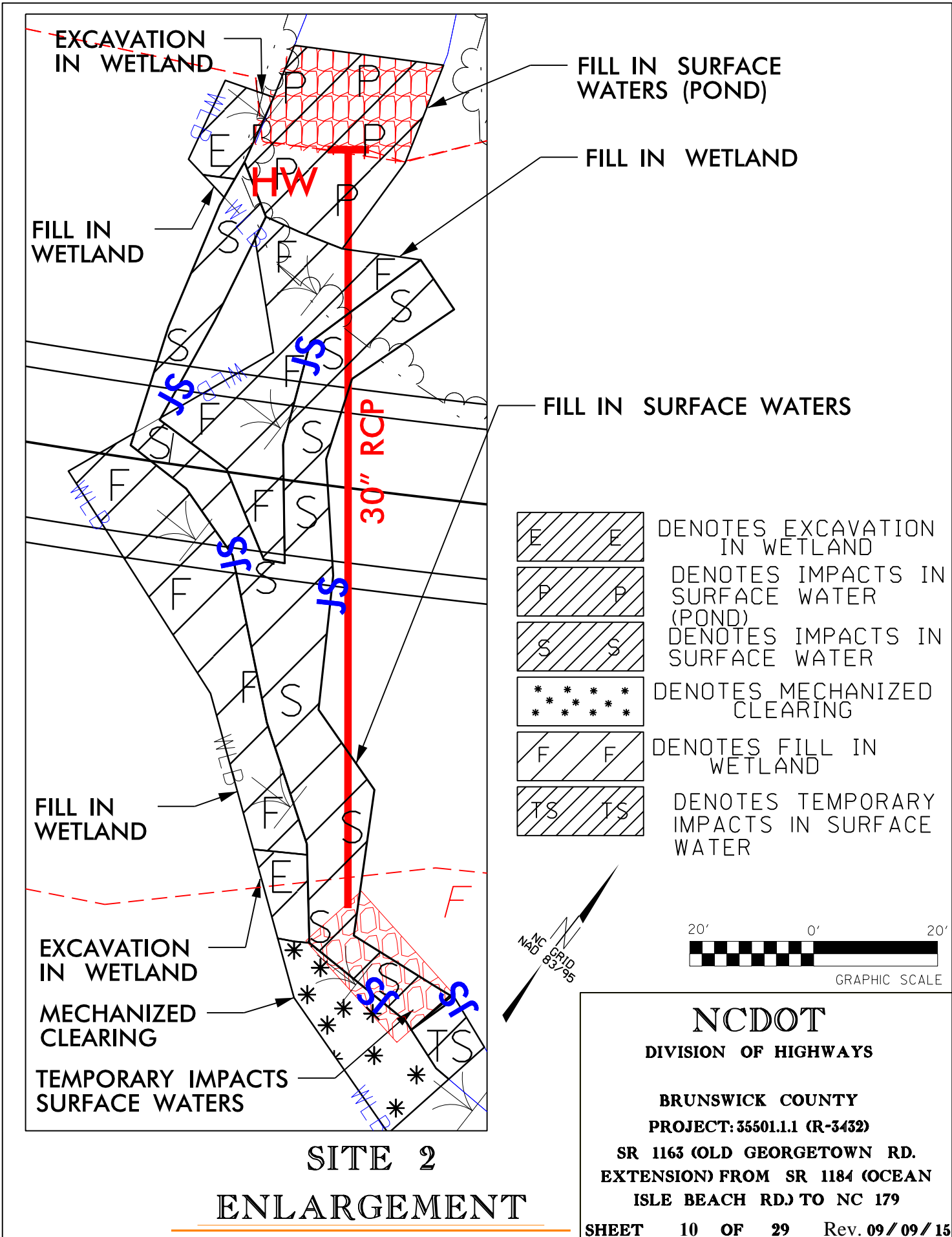
PIPE HYDRAULIC DATA
DRAINAGE STR. NO. 1002/1001

DRAINAGE AREA	61 AC
DESIGN FREQUENCY	25 YRS
DESIGN DISCHARGE	114 CFS
DESIGN HW ELEVATION	328.5 FT
100 YEAR DISCHARGE	125 CFS
100 YEAR HW ELEVATION	328 FT
OVERTOPPING FREQUENCY	25 YRS
OVERTOPPING DISCHARGE	132 CFS
OVERTOPPING ELEVATION	328 FT

PERMIT DRAWING
SHEET 12 OF 29
Revised 9/9/15



*****SYTIME*****
*****EDGN*****
*****RANGE*****



NCDOT
DIVISION OF HIGHWAYS

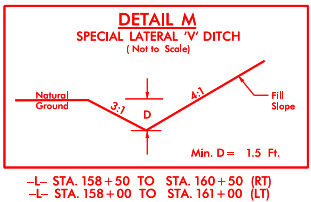
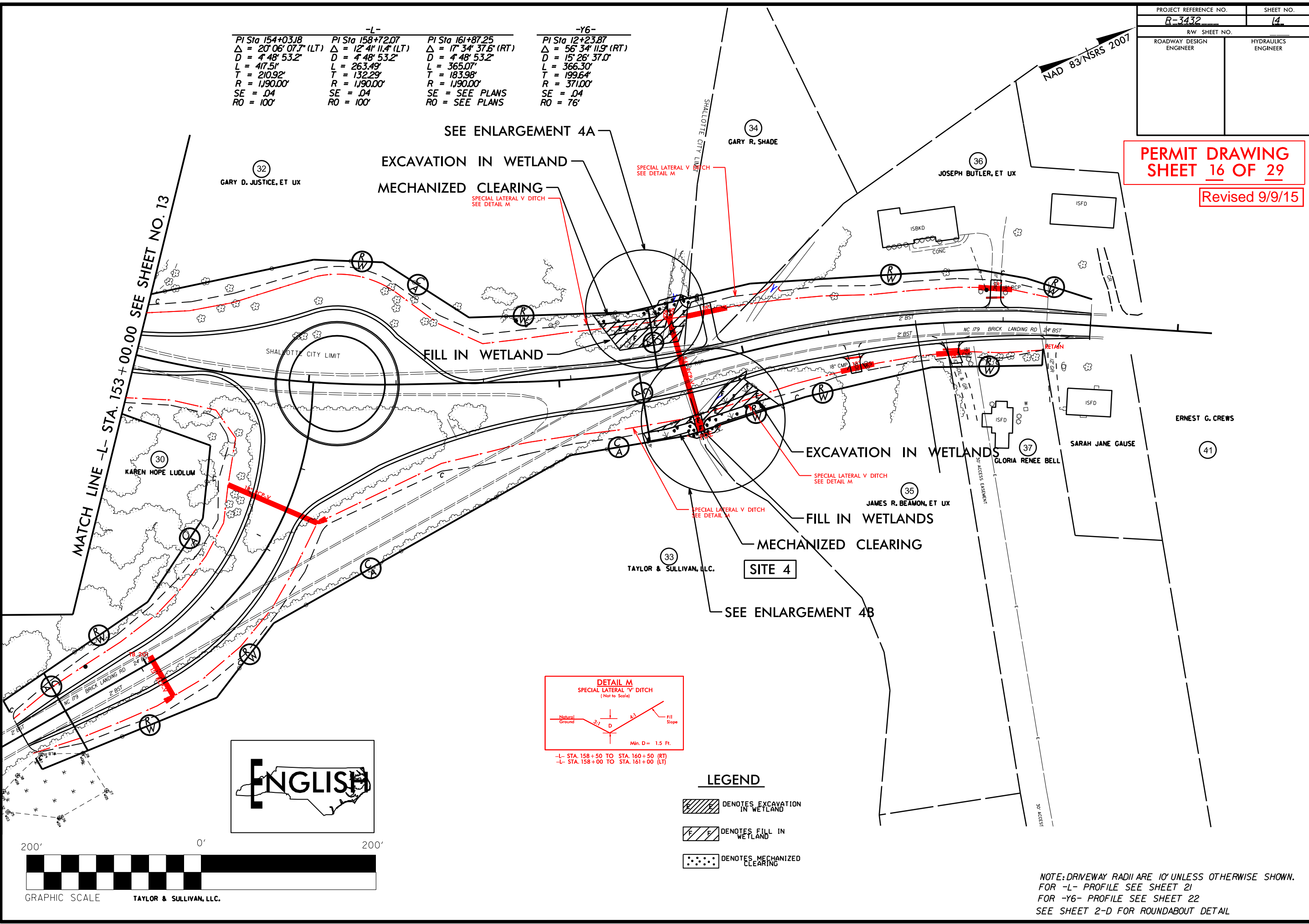
BRUNSWICK COUNTY
PROJECT: 35501.1.1 (R-3432)
SR 1163 (OLD GEORGETOWN RD. EXTENSION) FROM SR 1184 (OCEAN ISLE BEACH RD) TO NC 179

SHEET 10 OF 29 Rev. 09/09/15

PROJECT REFERENCE NO. R-3432	SHEET NO. 14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

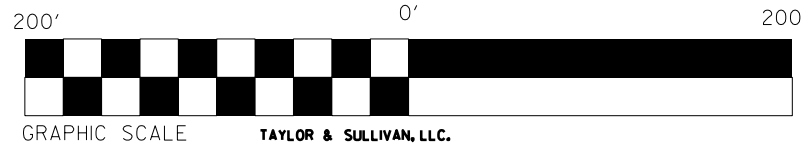
PERMIT DRAWING SHEET 16 OF 29
Revised 9/9/15

-L-		-Y6-	
PI Sta 154+03.18	PI Sta 158+72.07	PI Sta 161+87.25	PI Sta 12+23.87
$\Delta = 20' 06" 07.7" (LT)$	$\Delta = 12' 41" 11.4" (LT)$	$\Delta = 17' 34' 37.6" (RT)$	$\Delta = 56' 34' 11.9" (RT)$
D = 4' 48" 53.2"	D = 4' 48" 53.2"	D = 4' 48" 53.2"	D = 15' 26' 37.0"
L = 417.51'	L = 263.49'	L = 365.07'	L = 366.30'
T = 210.92'	T = 132.29'	T = 183.98'	T = 199.64'
R = 1190.00'	R = 1190.00'	R = 1190.00'	R = 371.00'
SE = .04	SE = .04	SE = SEE PLANS	SE = .04
RO = 100'	RO = 100'	RO = SEE PLANS	RO = 76'



LEGEND

	DENOTES EXCAVATION IN WETLAND
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING



NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
FOR -L- PROFILE SEE SHEET 21
FOR -Y6- PROFILE SEE SHEET 22
SEE SHEET 2-D FOR ROUNDABOUT DETAIL

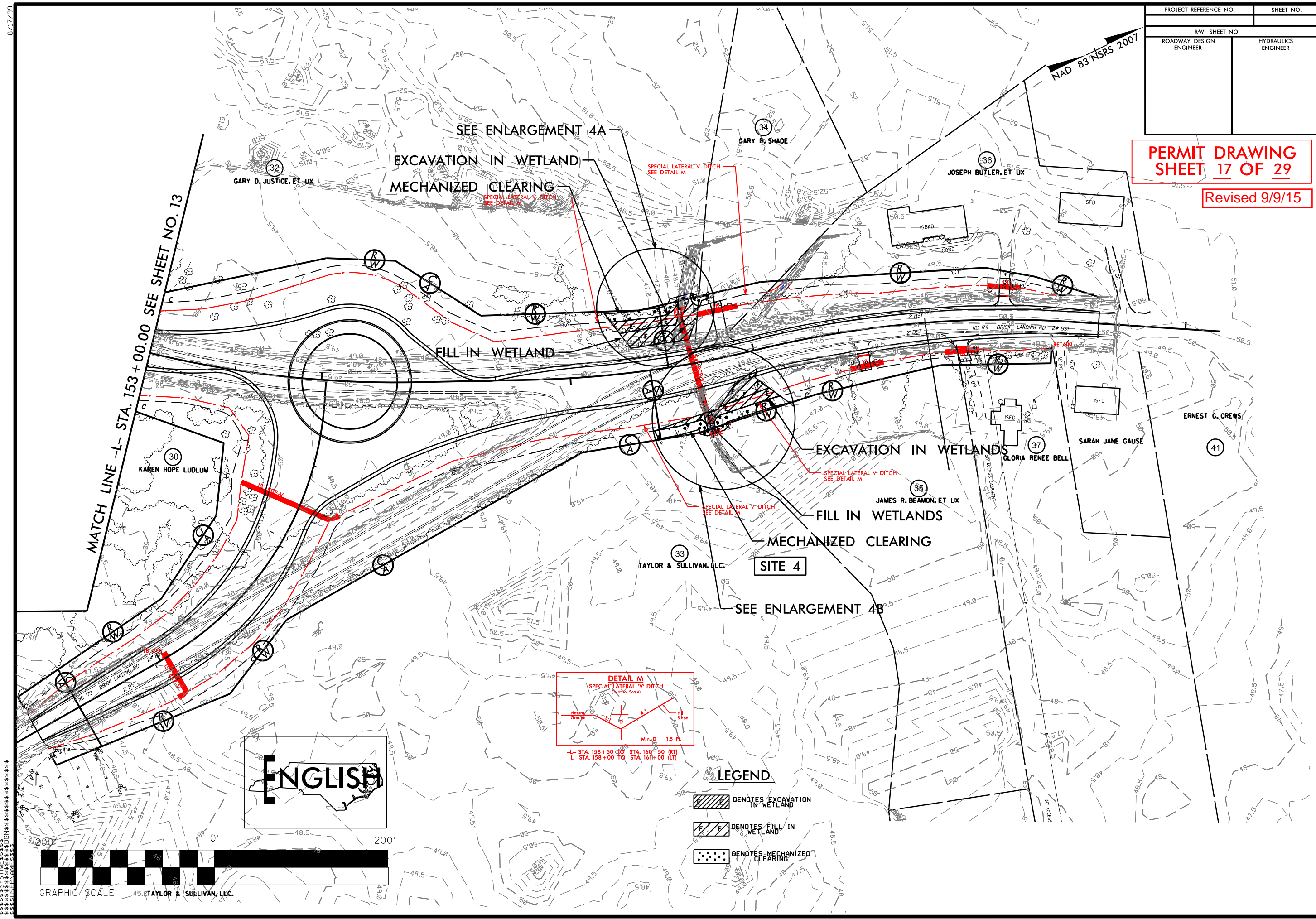
REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PERMIT DRAWING SHEET 17 OF 29

Revised 9/9/15



MATCH LINE -L- STA. 153 + 00.00 SEE SHEET NO. 13

SEE ENLARGEMENT 4A

EXCAVATION IN WETLAND
MECHANIZED CLEARING

FILL IN WETLAND

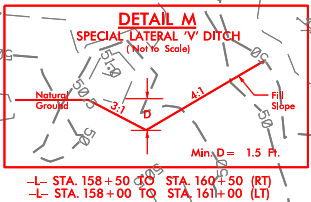
EXCAVATION IN WETLANDS

FILL IN WETLANDS

MECHANIZED CLEARING

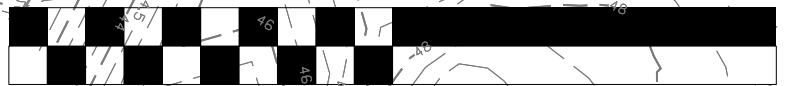
SITE 4

SEE ENLARGEMENT 4B



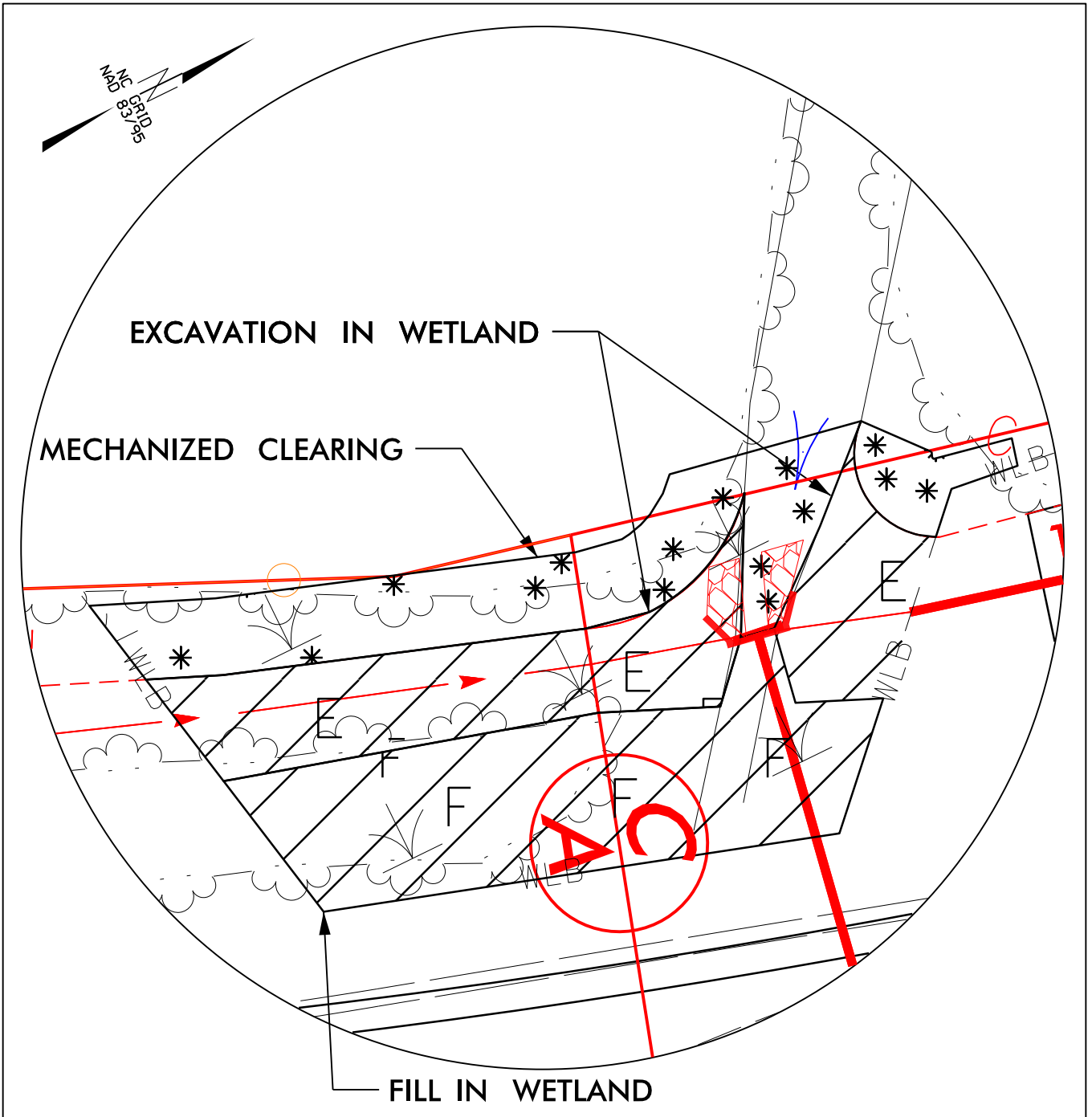
LEGEND

- ▨ DENOTES EXCAVATION IN WETLAND
- ▧ DENOTES FILL IN WETLAND
- ⋯ DENOTES MECHANIZED CLEARING


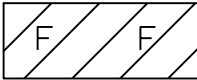
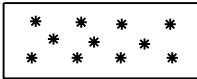


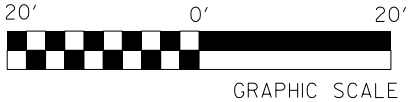
45. TAYLOR & SULLIVAN, LLC.

8/17/99
SYTIME
DESIGN
TAYLOR & SULLIVAN, LLC.



SITE 4A ENLARGEMENT

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



NCDOT
DIVISION OF HIGHWAYS

BRUNSWICK COUNTY
PROJECT: 35501.1.1 (R-3432)
SR 1163 (OLD GEORGETOWN RD.
EXTENSION) FROM SR 1184 (OCEAN
ISLE BEACH RD.) TO NC 179

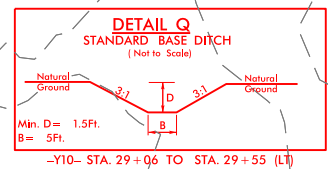
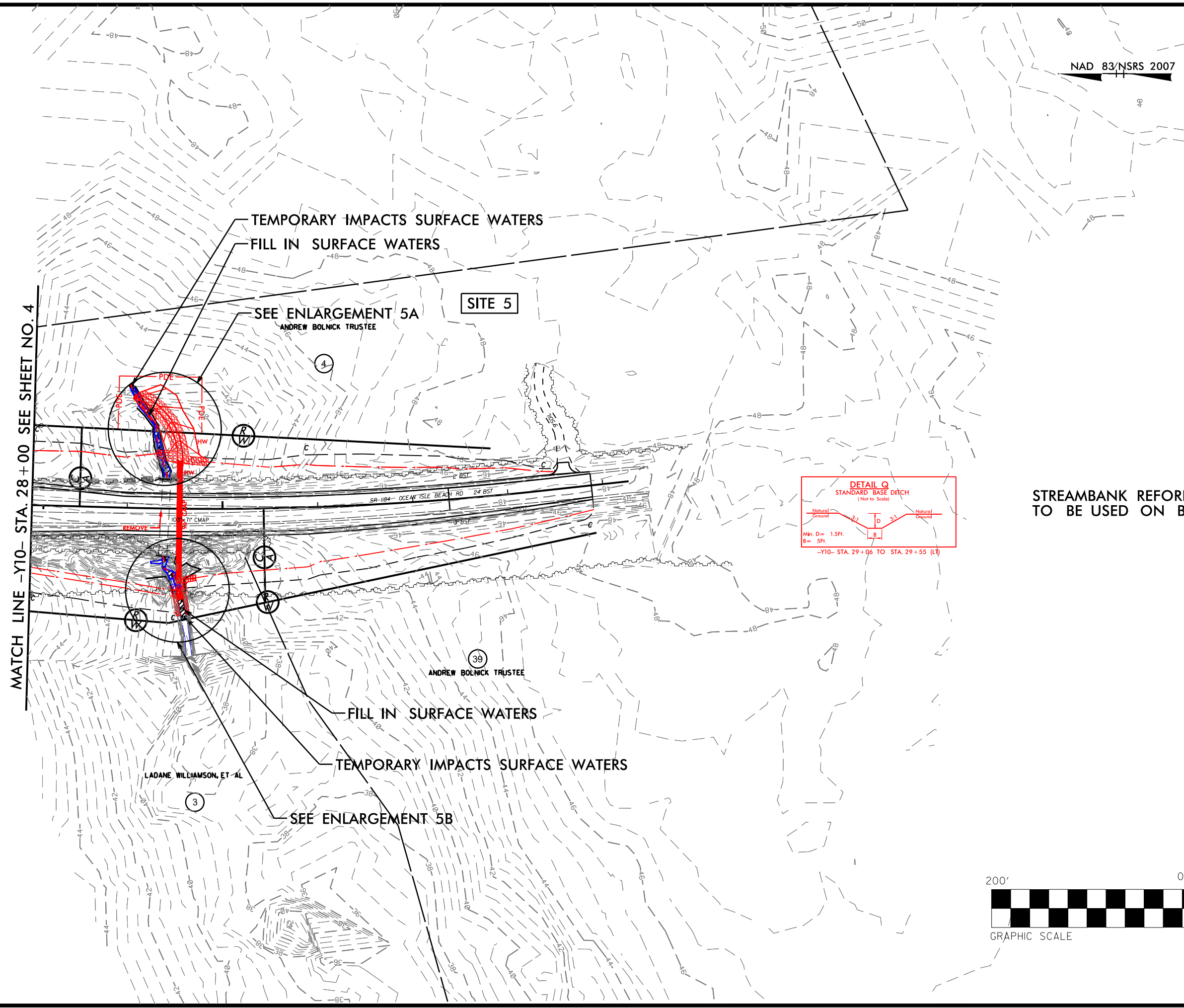
SHEET 18 OF 29 Rev.09/09/15

PROJECT REFERENCE NO. R-3432	SHEET NO. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PERMIT DRAWING
SHEET 23 OF 29

Revised 9/9/15

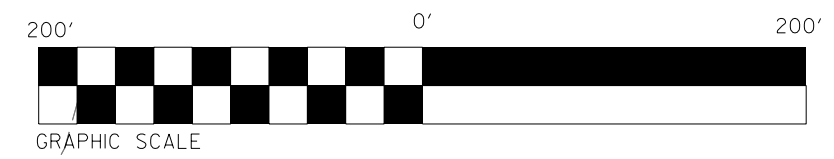
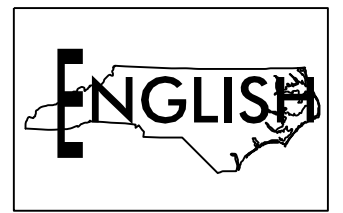
NAD 83/NSRS 2007



**STREAMBANK REFORESTATION
TO BE USED ON BANKS**

LEGEND

- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



FOR -Y10- PROFILE SEE SHEET 21A

REVISIONS

8/17/99

\$\$\$\$\$\$SYTIME\$\$\$\$\$\$
 \$\$\$\$\$\$DESIGN\$\$\$\$\$\$
 \$\$\$\$\$\$DATE\$\$\$\$\$\$
 \$\$\$\$\$\$BY\$\$\$\$\$\$
 \$\$\$\$\$\$CHECKED\$\$\$\$\$\$
 \$\$\$\$\$\$APPROVED\$\$\$\$\$\$
 \$\$\$\$\$\$DATE\$\$\$\$\$\$

NAD 83/NSRS 2007

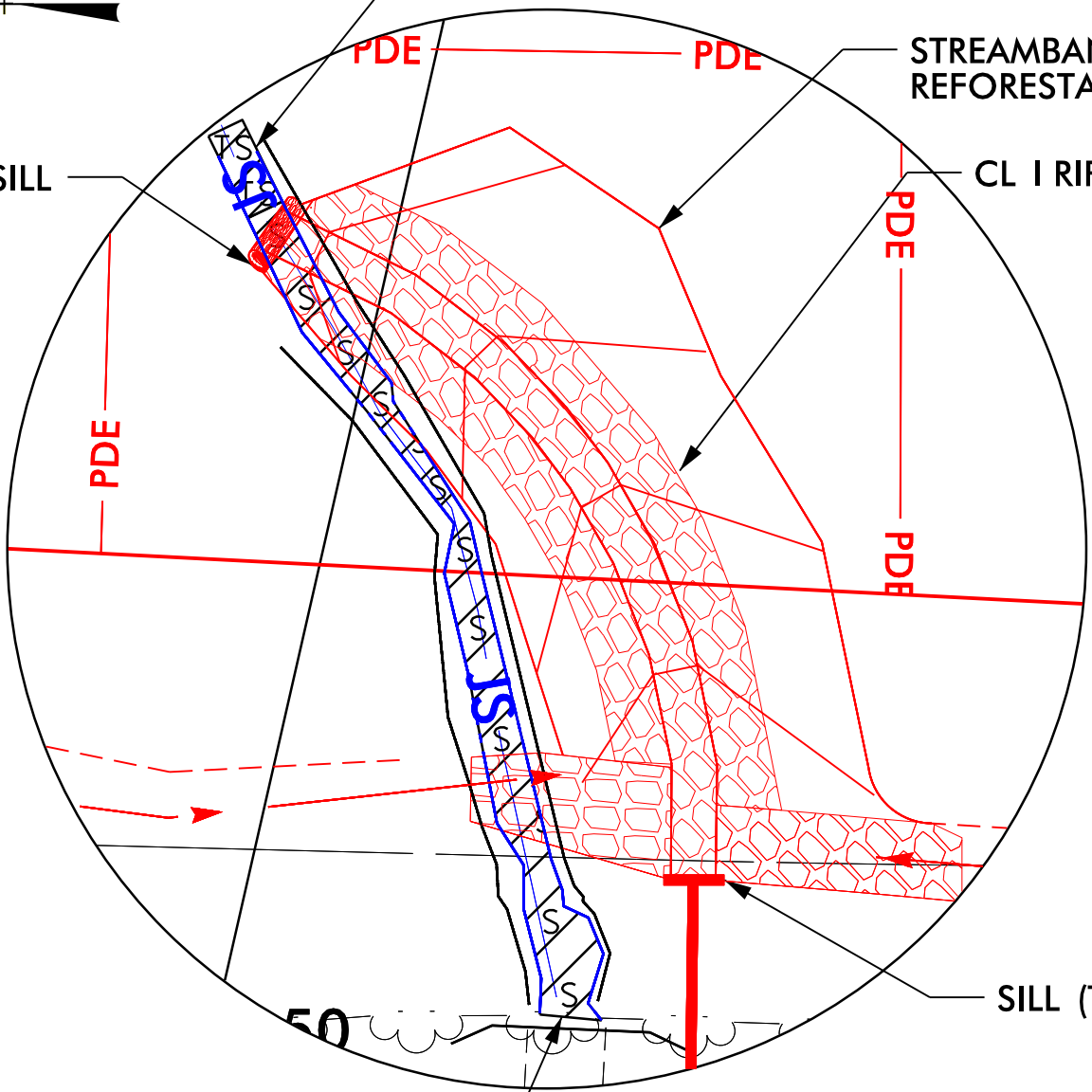
TEMPORARY IMPACTS SURFACE WATERS

STREAMBANK REFORESTATION

CL | RIP RAP

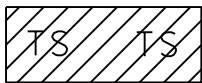
SILL (TYP.)

LOG SILL (TYP.)



FILL IN SURFACE WATERS

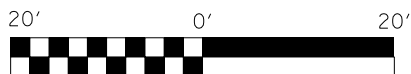
SITE 5A ENLARGEMENT



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



DENOTES IMPACTS IN SURFACE WATER



GRAPHIC SCALE

NCDOT

DIVISION OF HIGHWAYS

BRUNSWICK COUNTY

PROJECT: 35501.1.1 (R-3432)

SR 1163 (OLD GEORGETOWN RD. EXTENSION) FROM SR 1184 (OCEAN ISLE BEACH RD.) TO NC 179

SHEET 24 OF 29 Rev. 09/09/15

SITE 5 JURISDICTIONAL STREAM PROFILE

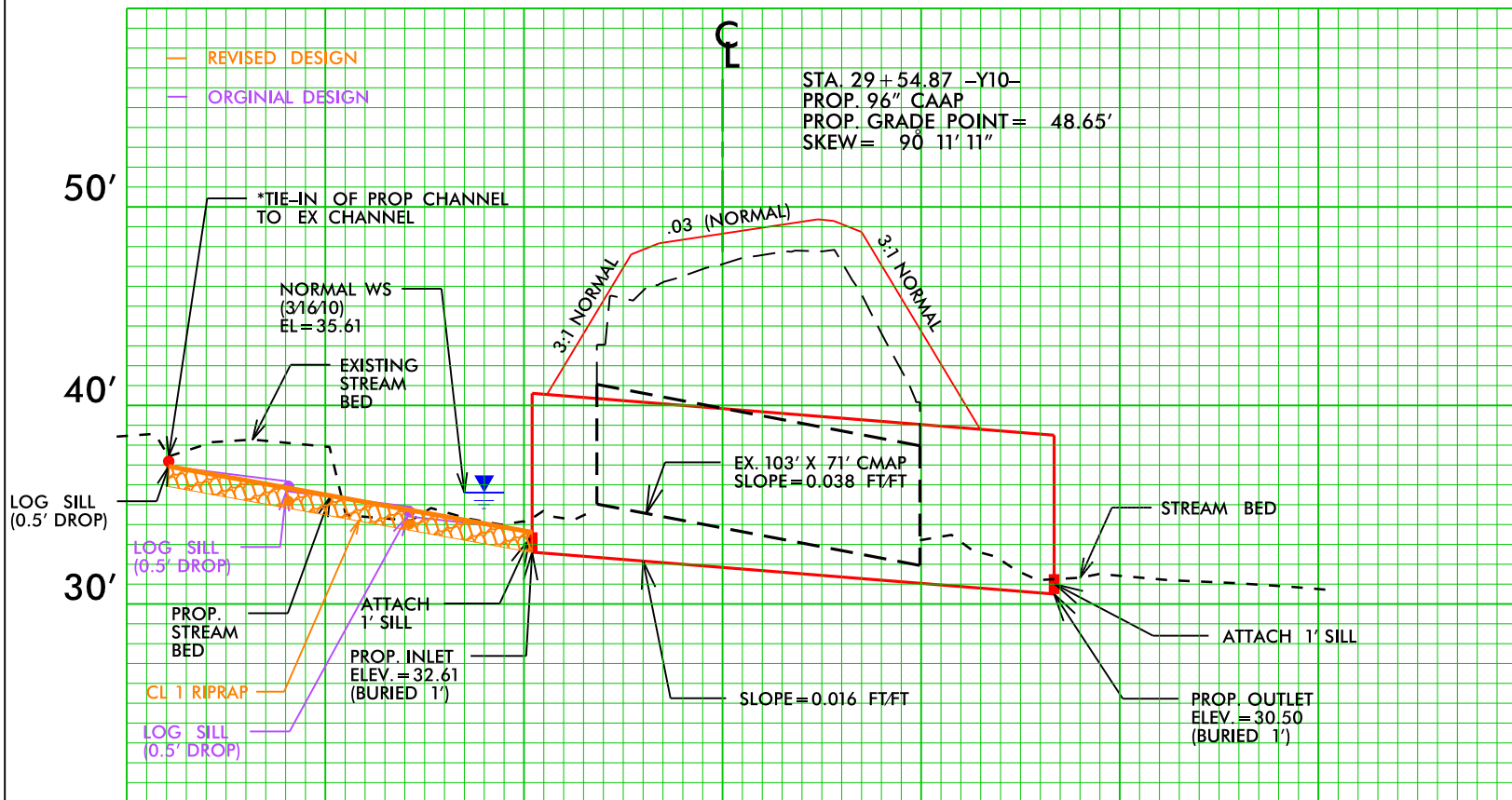
REVISED

NCDOT
DIVISION OF HIGHWAYS

BRUNSWICK COUNTY
PROJECT: 35501.1.1 (R-3432)
SR 1163 (OLD GEORGETOWN RD.
EXTENSION) FROM SR 1184 (OCEAN
ISLE BEACH RD.) TO NC 179

SHEET 26 OF 29 Rev. 08/31/15

150' LT 100' LT 50' LT 0 50' RT 100' RT 150' RT



SCALE
HORIZ: 1" = 50'
VERT: 1" = 10'

