



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

October 1, 2014

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

Mr. Stephen Lane  
N.C. Dept. of Environment & Natural  
Resources  
Division of Coastal Management  
400 Commerce Avenue  
Morehead City, NC 28557

Dear Sirs:

Subject: **Revised Permit Modification Request for the Section 404 Individual Permit, Section 401 Individual Water Quality Certification and CAMA Major Permit** for the proposed improvements to US 70 from existing four lanes at Radio Island to north of Olga Road (SR 1426), Carteret County, State Project No. 8.1162501, Federal Aid Project STPNHF-70(43), TIP R-3307. Debit \$570 (NCDWR) and \$100 (NCDCM) from WBS 34528.1.1.

References: Section 404 Permit No. SAW-2010-02125, issued September 27, 2013  
Section 401 Permit No. 3195, issued April 30, 2012  
CAMA Major Development Permit No. 37-12, issued May 3, 2012  
Permit Modification Request, dated September 23, 2014

Dear Sirs:

Please see the enclosed revised permit drawings and impact summary sheet for the above referenced project. Due to a delay in the Duke Energy power line relocation, the contractor has identified the need to construct a temporary ramp to obtain access beyond the power lines to facilitate construction of the temporary work trestle. The temporary ramp will be completely enclosed by approximately 200 feet of temporary sheet pile within wetlands. The majority of the ramp will be constructed on a previously permitted area for excavation in coastal wetland; however, an additional 0.01 acre of temporary fill in coastal wetland will be required. Once the temporary access ramp is no longer required, it will be removed in its entirety and restored to preconstruction elevation. Due to possible compaction and at the request of regulatory agencies, compensatory mitigation will be debited from the proposed onsite restoration coastal marsh restoration to off-set this additional 0.01 acre of temporary impact to coastal wetlands. If this area reattains jurisdictional status, the Department may request that this debit be credited back to the mitigation site.

As previously requested with our September 23, 2014 request, the contractor has also indicated the need remove a portion of a rock jetty in Gallants Channel by Bent 25 to construct the footing at that location. Additionally, hand clearing is increasing from 0.23 acre to 1.06 acres for construction of the bridge and temporary work bridge.

Please note, a revision has been made on permit drawing sheet 5 (plan sheet 8, -L- Sta. 63+43). The original permit drawings erroneously illustrated the fill within the retaining wall at the approach. This has been corrected, resulting in a 0.01 acre impact increase to 404 wetlands at site 2.

In effort to simplify this modification, permit drawings from our September 23, 2014 modification request are also included with this submittal.

Section 404: We are hereby requesting the modifications described above for the USACE Individual 404 Permit signed September 27, 2013 (SAW-2010-02125), for the above-described activities.

Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the NCDWR issued, April 30, 2012 (DWQ No. 3195). We are providing \$570 to act as payment for processing the permit modification (see subject line).

CAMA: We are hereby requesting a modification to the Coastal Area Management Act Major Permit issued May 3, 2012. We are providing \$100 to act as payment for processing the permit modification (see subject line).

As you are aware, this project is currently under construction. Therefore, the Department requests that your agency expedite your review and approval to avoid delay.

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](mailto:tstanton@ncdot.gov) or (919) 707-6156.

Sincerely,



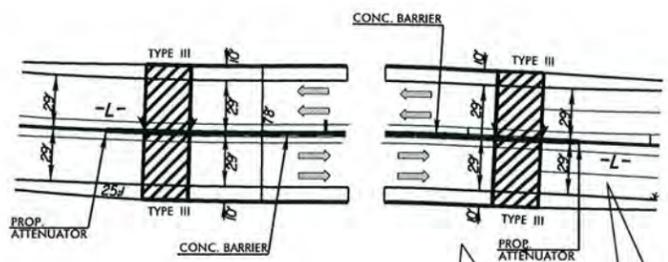
for

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

cc:

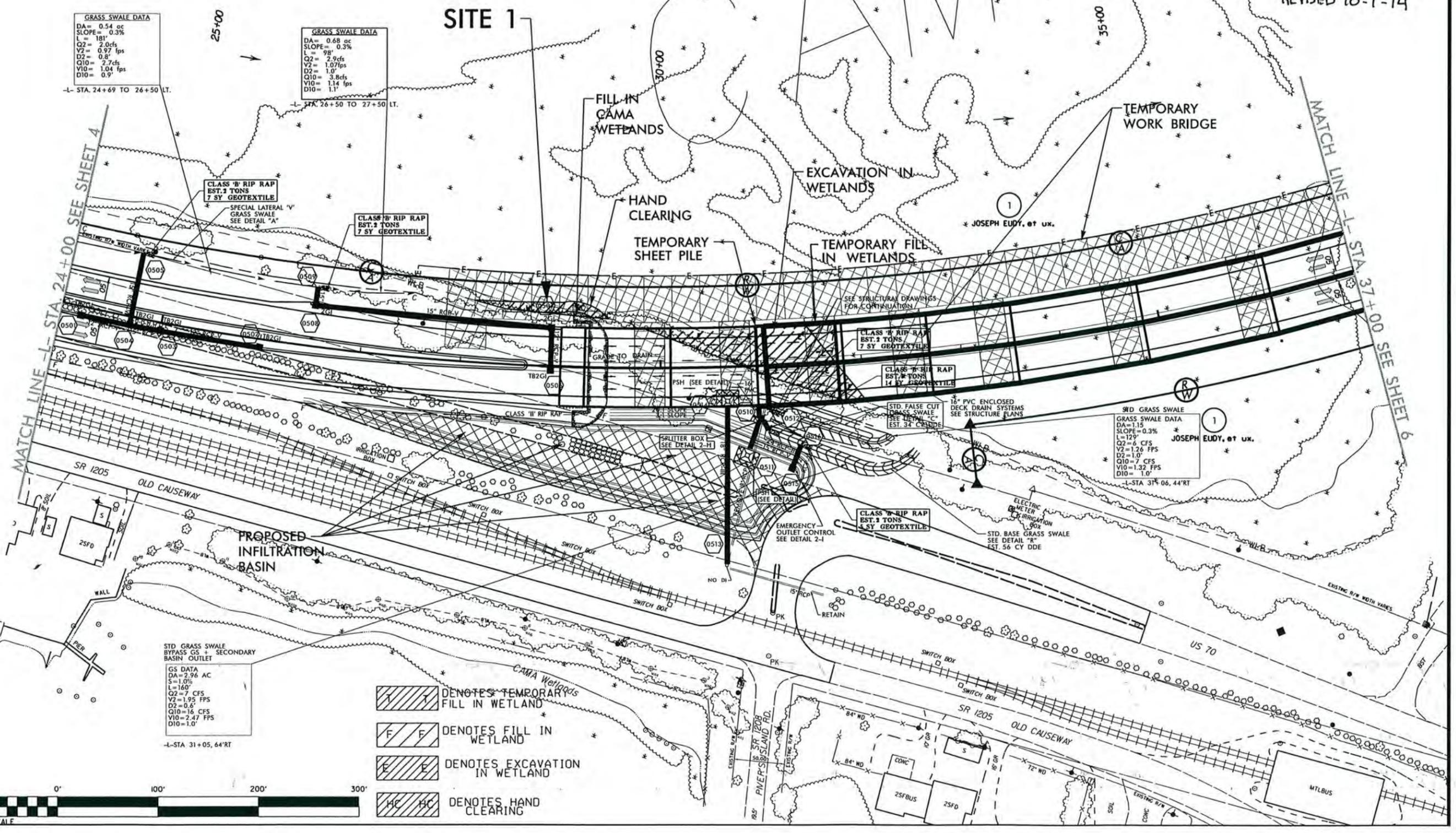
NCDOT Permit Application Standard Distribution List.

Permit Drawing  
Sheet 2 of 34  
REVISED 10-1-14



GRASS SWALE DATA  
DA = 0.54 ac  
SLOPE = 0.3%  
L = 181'  
Q2 = 2.0 cfs  
V2 = 0.97 fps  
D2 = 0.8'  
Q10 = 2.7 cfs  
V10 = 1.04 fps  
D10 = 0.9'

GRASS SWALE DATA  
DA = 0.68 ac  
SLOPE = 0.3%  
L = 98'  
Q2 = 2.9 cfs  
V2 = 1.07 fps  
D2 = 1.0'  
Q10 = 3.8 cfs  
V10 = 1.14 fps  
D10 = 1.1'



CLASS 'B' RIP RAP EST. 3 TONS 7 SY GEOTEXTILE  
SPECIAL LATERAL 'V' GRASS SWALE SEE DETAIL 'A'

CLASS 'B' RIP RAP EST. 3 TONS 7 SY GEOTEXTILE

CLASS 'B' RIP RAP EST. 3 TONS 7 SY GEOTEXTILE

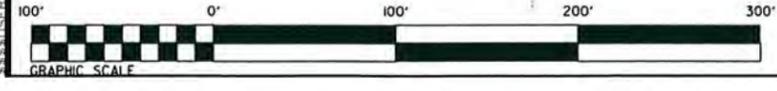
CLASS 'B' RIP RAP EST. 14 SY GEOTEXTILE

CLASS 'B' RIP RAP EST. 4 SY GEOTEXTILE

STD GRASS SWALE  
GRASS SWALE DATA  
DA = 1.15  
SLOPE = 0.3%  
L = 129'  
Q2 = 6 CFS  
V2 = 1.26 FPS  
D2 = 1.0'  
Q10 = 7 CFS  
V10 = 1.32 FPS  
D10 = 1.0'

STD GRASS SWALE BYPASS GS + SECONDARY BASIN OUTLET  
GS DATA  
DA = 2.96 AC  
S = 1.0%  
L = 160'  
Q2 = 7 CFS  
V2 = 1.95 FPS  
D2 = 0.6'  
Q10 = 16 CFS  
V10 = 2.47 FPS  
D10 = 1.0'

- DENOTES TEMPORARY FILL IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES HAND CLEARING



REVISIONS

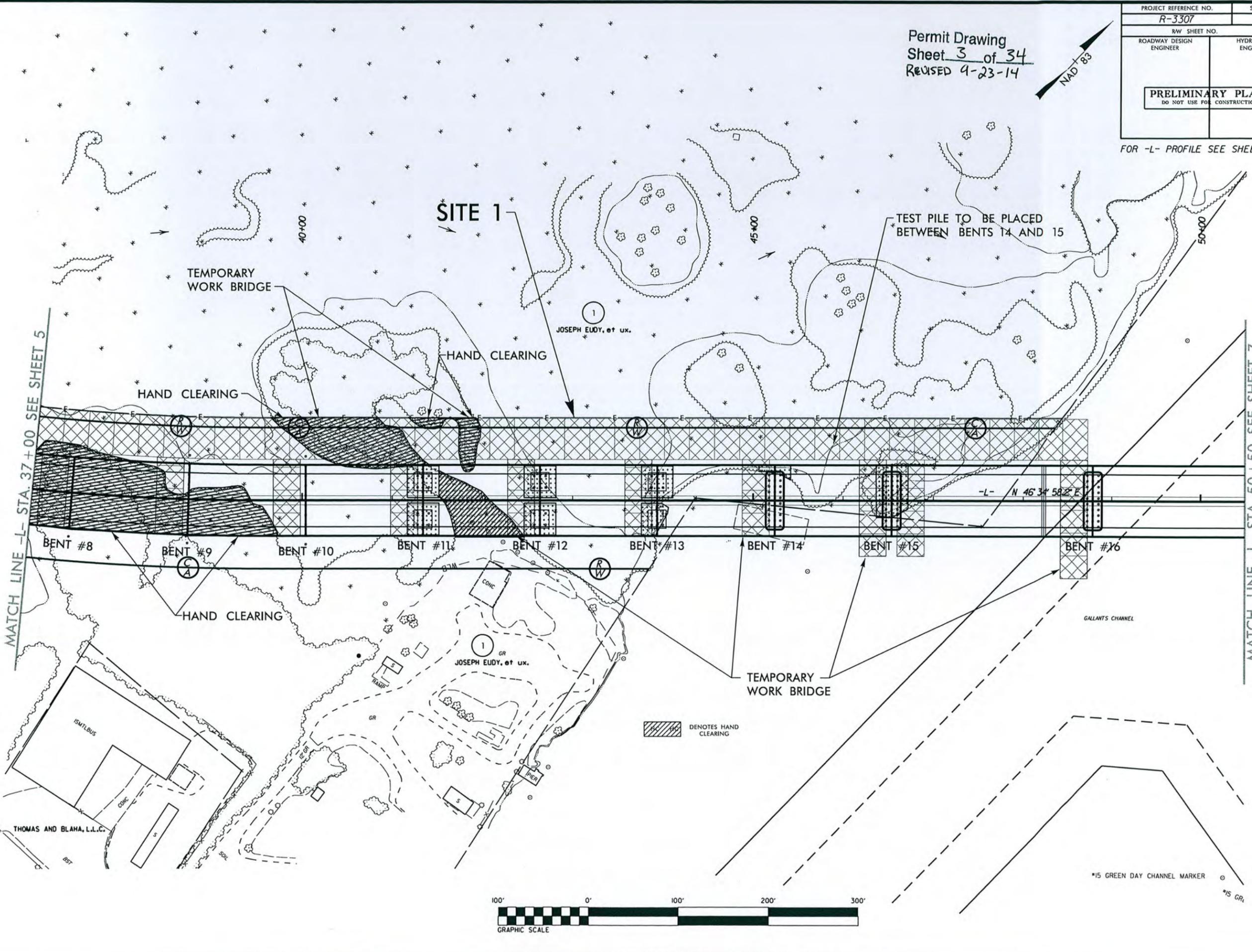
8/17/99

PROJECT REFERENCE NO. R-3307	SHEET NO. 6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	

Permit Drawing  
Sheet 3 of 34  
REVISED 4-23-14



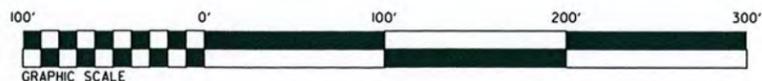
FOR -L- PROFILE SEE SHEET 27



REVISIONS

MATCH LINE -L- STA. 37+00 SEE SHEET 5

MATCH LINE -L- STA. 50+50 SEE SHEET 7



DATE: 8/17/99  
DRAWN BY: [illegible]  
CHECKED BY: [illegible]  
APPROVED BY: [illegible]

THOMAS AND BLAHA, L.L.C.

\*15 GREEN DAY CHANNEL MARKER  
\*15 GR.



PROJECT REFERENCE NO.	SHEET NO.
R-3307	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

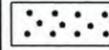
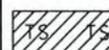
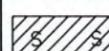
Permit Drawing  
Sheet 5 of 34  
REVISED 9-23-14

-YI-  
PI Sta 12+32.18  
Δ = 68° 34' 30.8" (LT)  
D = 27' 22" 52.3"  
L = 281.26'  
T = 160.23'  
R = 235.00'  
SE = .06

STD GRASS SWALE  
GRASS SWALE DATA  
DA = 0.91 OC  
SLOPE = 0.4%  
L = 135'  
Q2 = 4.4 cfs  
V2 = 1.3 fps  
D2 = 1.1'  
Q10 = 6 cfs  
V10 = 1.44 fps  
D10 = 1.2'

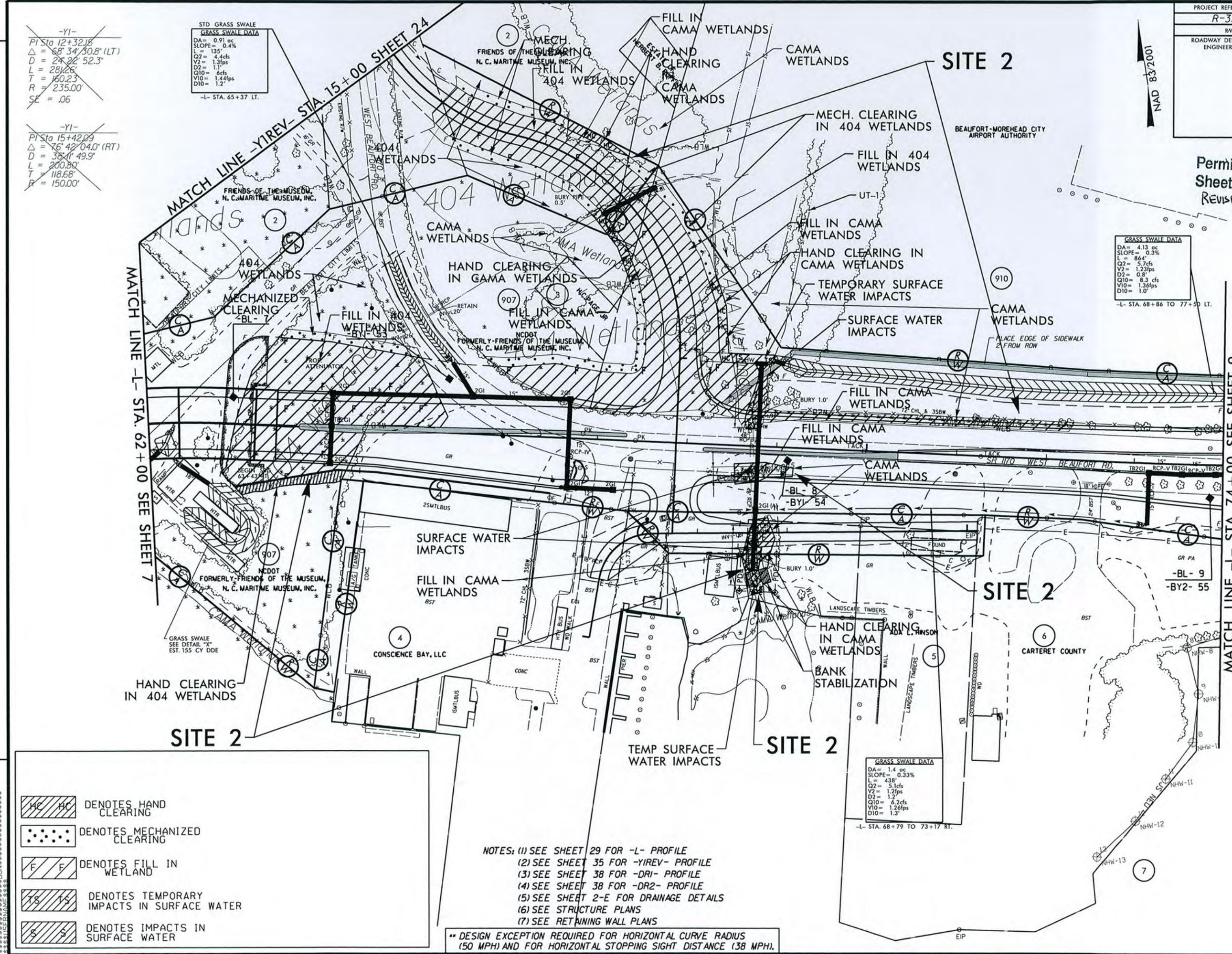
GRASS SWALE DATA  
DA = 4.13 OC  
SLOPE = 0.3%  
L = 864'  
Q2 = 5.7 cfs  
V2 = 1.23 fps  
D2 = 0.8'  
Q10 = 8.3 cfs  
V10 = 1.36 fps  
D10 = 1.0'

GRASS SWALE DATA  
DA = 1.4 OC  
SLOPE = 0.33%  
L = 438'  
Q2 = 5.1 cfs  
V2 = 1.2 fps  
D2 = 1.2'  
Q10 = 6.2 cfs  
V10 = 1.26 fps  
D10 = 1.3'

-  DENOTES HAND CLEARING
-  DENOTES MECHANIZED CLEARING
-  DENOTES FILL IN WETLAND
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES IMPACTS IN SURFACE WATER

- NOTES: (1) SEE SHEET 29 FOR -L- PROFILE  
(2) SEE SHEET 35 FOR -YIREV- PROFILE  
(3) SEE SHEET 38 FOR -DR1- PROFILE  
(4) SEE SHEET 38 FOR -DR2- PROFILE  
(5) SEE SHEET 2-E FOR DRAINAGE DETAILS  
(6) SEE STRUCTURE PLANS  
(7) SEE RETAINING WALL PLANS

\*\* DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE RADIUS (50 MPH) AND FOR HORIZONTAL STOPPING SIGHT DISTANCE (38 MPH).



REVISIONS

**WETLAND PERMIT IMPACT SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	Wetland Restoration (ac)	WETLAND IMPACTS						SURFACE WATER IMPACTS				
				CAMA Permanent Fill In Wetlands (ac)	404 Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- STA. 28+10 TO 29+47 LT	Roadway Fill		<0.01						0.02				
	-L- STA 28+99 TO 63+44	Bridge		0.02	<0.01	0.08	0.16*			0.84	0.03	0.06		
2	-L- STA. 62+82 TO 72+30 &	48" RCP &		0.24	1.39			0.21	0.09	0.02	0.01	139	9	
	-Y1REV- STA. 15+74 TO 20+64	Roadway Fill Bank Stabilization										16		
3	-L- STA. 78+58 TO 79+06 &	72" RCP								0.04	0.01	165	22	
	-Y2- STA. 10+78 TO 11+18 LT	Roadway Fill Bank Stabilization										24		
4	-L- STA. 87+50 TO 92+56	Roadway Fill			**					0.16	<0.01	499	10	***
5	-L- STA. 171+47 TO 183+92	Roadway Fill			3.98			0.53						
6	-Y2- STA. 13+13 TO 18+77 ****	Bridge	1.46	<0.01		<0.01				<0.01	<0.01			
	-Y2- STA. 12+33 TO 13+48 RT	Roadway Fill		0.04										
7	-Y2- STA. 18+66 TO 24+34	Roadway Fill		0.20					0.12					
		Bank Stabilization										8		
<b>TOTALS:</b>			1.46	0.50	5.37	0.08	0.16	0.74	1.07	0.26	0.09	851	41	0.00

\* 0.16 ACRES of EXCAVATION IN CAMA WETLANDS. REQUIRED TO PROVIDE ACCESS FOR BRIDGE CONSTRUCTION AND MAINTENANCE / INSPECTION

\*\* 0.18 ACRES of ISOLATED WETLANDS

\*\*\* NEW BASE DITCH TO BE EXCAVATED PARALLEL TO EXISTING BASE DITCH. PROVIDES DRAINAGE FOR AIRPORT PROPERTY. MITIGATION NOT REQUIRED PER 4C MEETING ON 20 OCT 2010.

\*\*\*\* CAUSEWAY REMOVAL: SITE 6

**SEDIMENT & EROSION CONTROL MEASURES:**

0.04 acres of Temporary Fill in CAMA Wetlands in the Hand Clearing areas for erosion control measures.

BRIDGE IMPACTS: Impacts for permanent and temporary bents are included in table above. Break-out for impacts are as follows:

**Gallants Channel Bridge**

Perm. Fill in CAMA wetlands: 0.02 Ac  
Mech. Clr. in CAMA wetlands:  
Hand Clr. in CAMA wetlands: 0.84 Ac  
Perm. Fill in 404 wetlands: <0.01 Ac  
Hand Clr. in 404 wetlands: 0.08 Ac  
Perm. Fill in Surface Waters: 0.03 Ac

Temp. Fill in wetlands: 0.07 Ac  
Temp. Fill in Surface Waters: 0.06 Ac.

**Turner Street Bridge**

Perm. Fill in CAMA wetlands: <0.01 Ac  
Perm. Fill in 404 wetlands: 0 Ac  
Perm. Fill in Surface Waters: <0.01 Ac

Temp. Fill in wetlands: <0.01 Ac  
Temp. Fill in Surface Waters: <0.01 Ac.

Permit Drawing  
Sheet 34 of 34  
REVISED 10-1-14

N.C.D.O.T.  
DIVISION OF HIGHWAYS  
CARTERET COUNTY  
PROJECT: 34528.1.1 (R-3307)  
US 70 FROM EXISTING FOUR LANES  
AT RADIO ISLAND TO US 70 NORTH  
OF SR 1429 (OLGA ROAD)