



PAT McCrory
Governor

NICHOLAS J. TENNYSON
Secretary

September 23, 2016

U. S. Army Corps of Engineers
Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, NC 27587

Attention: Mr. Andy Williams
NCDOT Coordinator

Subject: Application for a Section 404 Nationwide Permit 33 and Section 401 Water Quality Certification for the replacement of Bridge No. 374 over Sandy Creek on SR 2481 (Low Bridge Road), Randolph County, North Carolina, Federal Aid Project No. BRZ-2481(2), TIP No. B-5360.

Debit \$240.00 from WBS Element No. 46074.1.1

REFERENCE: 1) Section 404 Nationwide Permits 13 and 23, issued April 20, 2016,
USACE Action ID SAW-2011-0234
2) Section 401 Water Quality Certification, issued April 5, 2016,
NCDENR-DWQ Water Quality Certification Project No. 2016-0253

Dear Sir:

As you are aware, the North Carolina Department of Transportation (NCDOT) proposes to replace existing Bridge No. 374 over Sandy Creek on SR 2481 in Randolph County. A temporary causeway is now proposed to remove one of the bents from the existing bridge. Therefore, a Nationwide Permit (NW) 33 is requested for the addition of 20 feet of temporary impacts. The total temporary impacts are now 73 feet. Please see enclosed revised permit drawings.

Regulatory Approvals

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). In addition to the previously issued NW 23 and 33, the NCDOT requests that the project be authorized by a NW 33 for construction of a temporary causeway.

Section 401 Permit: In addition to the previously issued 401 General Certification numbers 3885 and 3891, we anticipate a 401 General Certification number 3893 will also apply to this project.



A copy of this permit application will be posted on the NCDOT Website at <https://connect.ncdot.gov/resources/Environmental>. Should you have any questions regarding this information, please contact Deanna Riffey at (919) 707-6151 or driffey@ncdot.gov

Sincerely,


For Philip S. Harris III, P.E., C.P.M.
Natural Environment Section Head

cc: NCDOT Permit Application Standard Distribution List

09/08/16

TIP PROJECT: B-5360

CONTRACT: C203805

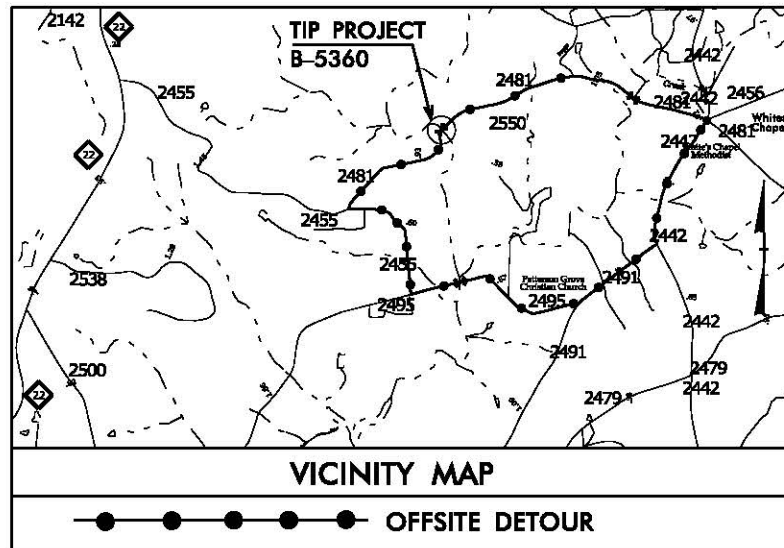
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PERMIT DRAWING
SHEET 1 OF 7

REVISED 9/13/2016

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5360	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46074.1.1	BRZ-2481(2)	PE	
46074.2.1		R/W & UTIL.	
46074.3.1		CONST.	

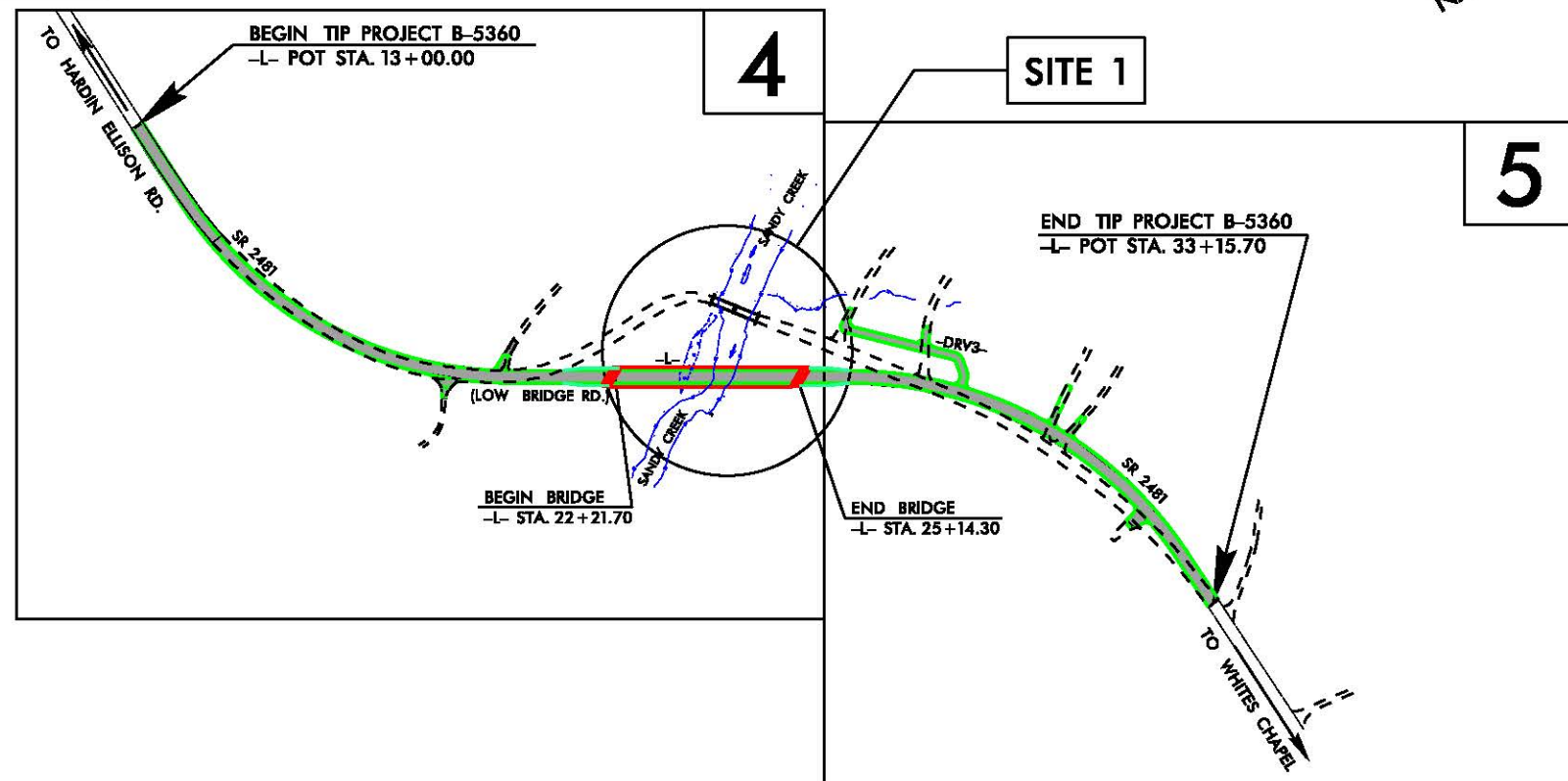
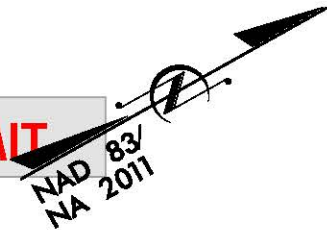
PART 1



LOCATION: BRIDGE NO 374 OVER SANDY CREEK
ON SR 2481 (LOW BRIDGE RD.)

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

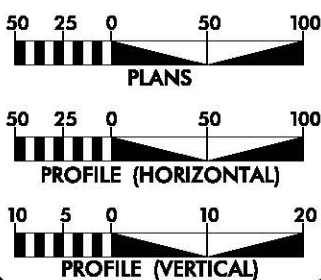
WETLAND AND SURFACE WATER IMPACTS PERMIT



DESIGN EXCEPTION REQUIRED FOR SAG VERTICAL CURVE AND NIGHTTIME STOPPING SIGHT DISTANCE.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2014 = 400 VPD
ADT 2040 = 700 VPD
K = 13 %
D = 60 %
T = 9 % *
V = 40 MPH
* TTST = 1% DUAL 8%
FUNC CLASS = RURAL, LOCAL
SUB REGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-5360 = 0.327 MI
LENGTH OF STRUCTURE TIP PROJECT B-5360 = 0.055 MI
TOTAL LENGTH OF STATE TIP PROJECT B-5360 = 0.382 MI

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

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 9, 2015

LETTING DATE:
OCTOBER 18, 2016

JAMES A. SPEER, PE
PROJECT ENGINEER

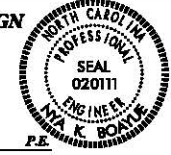
NYA K. BOAYUE, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

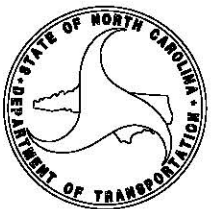


SIGNATURE:

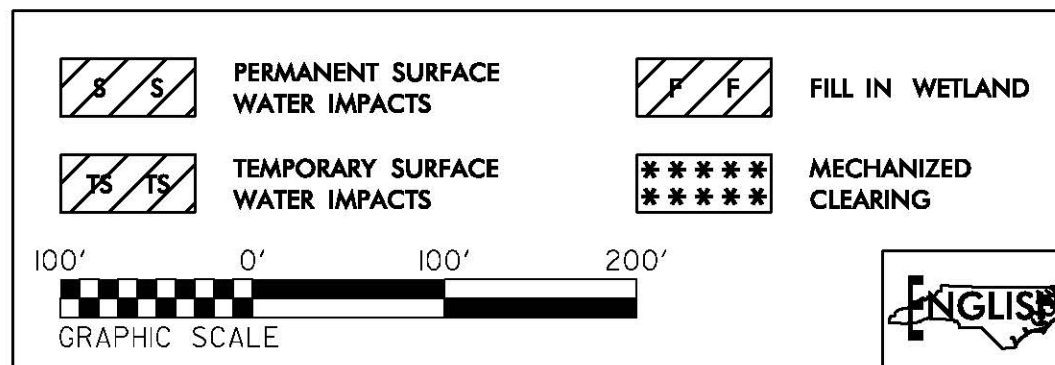
ROADWAY DESIGN
ENGINEER



SIGNATURE:



9/13/2016
R:\Hydraulics\PERMITS Environmental\2016 09 09 Permit Mod. for Causeway\B5360_Hyd_perm_1.txd
\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DON\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$



SEE SHEET 6 FOR PROFILE
SEE SHEETS S-1 TO S-22 FOR STRUCTURE PLANS

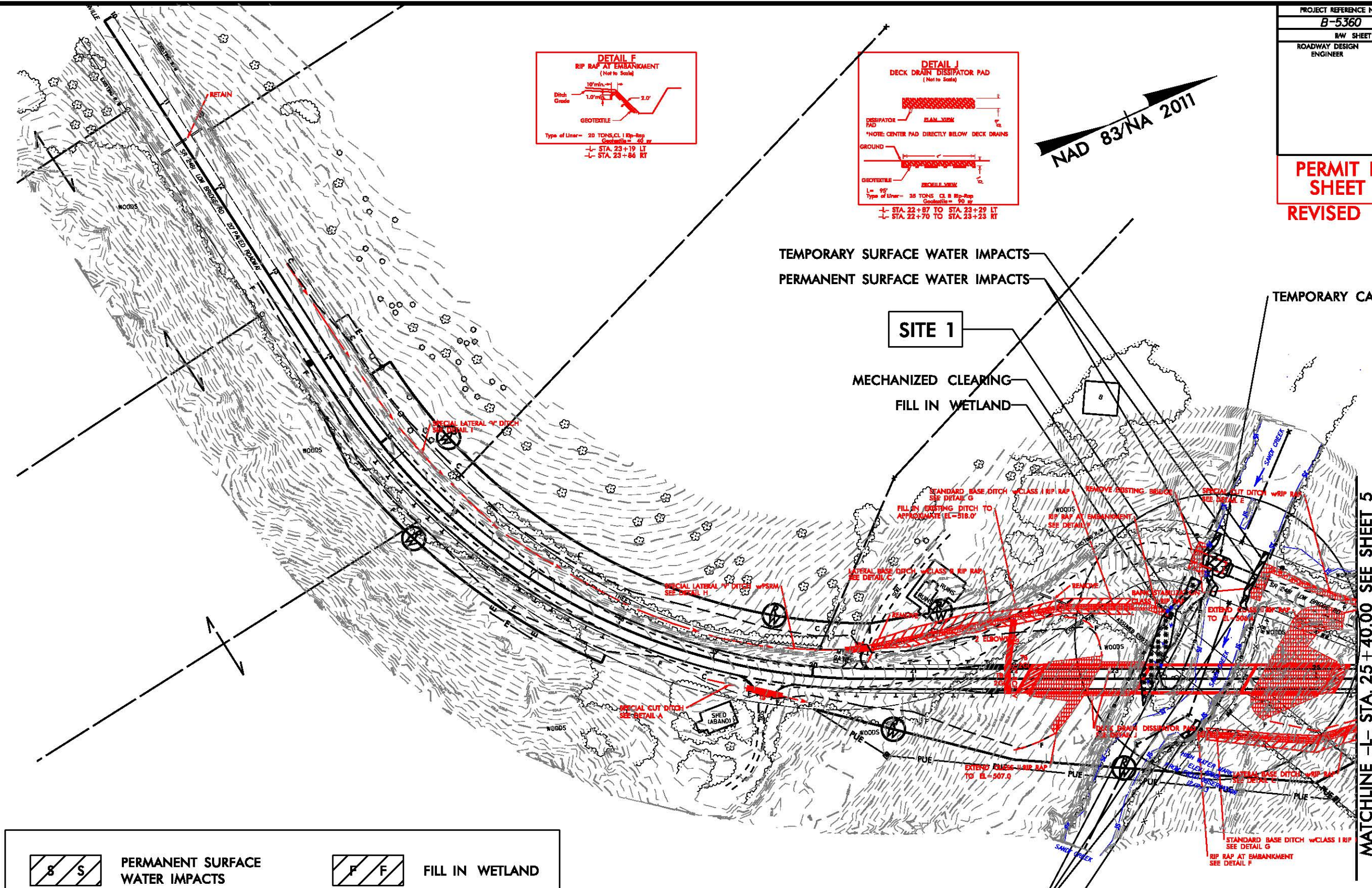
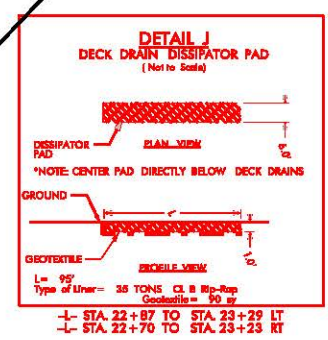
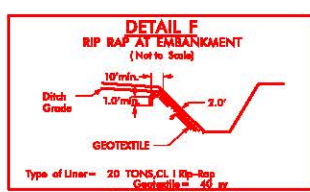
REVISIONS

01/3/2016 11:32 AM C:\Users\jason\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\B35640_Hyd_prm_2_jah.dgn

PROJECT REFERENCE NO.	SHEET NO.
B-5360	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PERMIT DRAWING
SHEET 3 OF 7
REVISED 9/3/2016

NAD 83/NA 2011



	PERMANENT SURFACE WATER IMPACTS		FILL IN WETLAND
	TEMPORARY SURFACE WATER IMPACTS		MECHANIZED CLEARING

100' 0' 100' 200'

GRAPHIC SCALE

ENGLISH

TEMPORARY SURFACE WATER IMPACTS
 PERMANENT SURFACE WATER IMPACTS

SEE SHEET 6 FOR PROFILE
 SEE SHEETS S-1 TO S-22 FOR STRUCTURE PLANS

MATCHLINE -L- STA. 25+40.00 SEE SHEET 5

REVISIONS

9/3/2016
 B:\Information\PERMITS\Environmental\2016_09_09\Permit Mod. for Causeway\B5360_Hyd_dwg_2.dwg
 *****SYTIME*****
 *****UNDO*****

**FILL IN EXISTING DITCH TO
APPROXIMATE EL=518.0'**

REMOVE EXISTING BRIDGE

TEMPORARY SURFACE WATER IMPACTS
PERMANENT SURFACE WATER IMPACTS

TEMPORARY SURFACE WATER IMPACTS:

TEMPORARY CAUSEWAY

TEMPORARY SURFACE WATER IMPACTS

DITCH w/CLASS B RIP RAP

MECHANIZED CLEARING

~~FILL IN WETLAND~~

REMOVE

BANK STABILIZATION
CLASS II RIP RAP

EXTEND CLASS II RIP RAP
TO EL=506.4

REMOVE

REMOVE

2 ELBOWS

PERMANENT SURFACE WATER IMPACTS

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-11-2010 BY 60322 UCBAW

LOW BRIDGE RD
RIP RAP

18' SOIL & GRAVEL ROAD

RC

DECK DRAIN
SEE DETAIL J

DISSIPATOR PAD

—TEMPORARY SURFACE WATER IMPACTS

LATERAL BASE DITCH w/ RIP RAP
SEE DETAIL C

LATE
SEE I



**PERMANENT SURFACE
WATER IMPACTS**



**TEMPORARY SURFACE
WATER IMPACTS**

40' 0' 40' 80'

GRAPHIC SCALE



REVISIONS

13132016
 1165
 1165 Hydrological PERMITS Environmental 2016 09 09 Permit Mod. for Causeway\131360_Hyd_perm_4_pch.dgn
 \$\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$\$\$\$DON\$\$\$\$\$

5/14/99

PROJECT REFERENCE NO. SHEET NO.

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

PERMIT DRAWING
SHEET 5A OF 7
REVISED 9/13/2016

CAUSEWAY TO REMOVE EXISTING INTERIOR BENT

500

490

TEMPORARY CAUSEWAY
2' ABOVE NWS

CLASS B RIP RAP
1' THICK

CLASS II RIP RAP

NWS=491.4'

REMOVE EXISTING BRIDGE
AND ABUTMENTS
PLACE CLASS II RIP RAP
ON DISTURBED BANK
AT A 1.5:1 OR FLATTER

0+00

0+50

1+00

SYSTEMS
DESIGN
ENGINEER

8/23/99

