



# **Pre-Construction Notification (PCN) Form**

For Nationwide Permits and Regional General Permits (along with corresponding Water Quality Certifications) June 28, 2017 Ver 1.8

Please note: fields marked with a red asterisk	below are required.	You will not be able to submit the form until all mandatory questions are answered.
--	---------------------	---

Below is a link to the DRAFT online help file.

http://edocs.deq.nc.gov/WaterResources/0/doc/549884/Page1.aspx

A. Processing Information
- · · · · · · · · · · · · · · · · · · ·
County (or Counties) where the project is located:*
Robeson
Is this project a public transportation project?*
Is this a NCDOT Project?*
⊙ Yes ○ No
(NCDOT only) T.I.P. or state project number:
B-4620
D-4020
WBS#
38438.1.2
(for NCDOT use only)
1a. Type(s) of approval sought from the Corps:*
✓ Section 404 Permit (wetlands, streams and waters, Clean Water Act)
☐ Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)
1b. What type(s) of permit(s) do you wish to seek authorization?*
✓ Nationwide Permit (NWP)
Regional General Permit (RGP)
Regional Constant Crimit (NOT)
Nationwide Permit (NWP) Number: 03 - Maintenance
MALIOTIWING   CITIEL HAVE   MALIEUTE   VO. MALIEUTE

12 - Utility Lines Nationwide Permit (NWP) Number:

# **NWP Number Other:**

List all NW numbers you are applying for not on the drop down list.

1c. Type(s) of approval sought from the DWR:\*

check all that apply  ✓ 401 Water Quality Certification - Regular  Non-404 Jurisdictional General Permit	☐ 401 Water Quality Certification - Express ☐ Riparian Buffer Authorization
1d. Is this notification solely for the record because	*
written approval is not required?	
For the record only for DWR 401 Certification:	O Yes ⊙ No
For the record only for Corps Permit:	
1e. Is payment into a mitigation bank or in-lieu fee pro If so, attach the acceptance letter from mitigation bank or in-lieu fee program.  O Yes  No	gram proposed for mitigation of impacts?
1f. Is the project located in any of NC's twenty coastal	counties?*
O Yes • No	
B. Applicant Information	
1a. Who is the Primary Contact? * Gordon Cashin	
1b. Primary Contact Email: * gcashin@ncdot.gov	
1c. Primary Contact Phone: * (xxx)xxx-xxxx (919)707-6107	
1d. Who is applying for the permit?	
✓ Owner ☐ Applicant (other than owner) ☐ Agent/Consu (Check all that apply)	ıltant
2. Owner Information	
2a. Name(s) on recorded deed:	
2b. Deed book and page no.:	
2c. Responsible party: (for Corporations)	
2d. Address	
Street Address Address Line 2	
City	State / Province / Region
Postal / Zip Code	Country
2e. Telephone Number: (xxx)xxx-xxxx	
2f. Fax Number:	
(xxx)xxx-xxxx	
2g. Email Address: *	
pharris@ncdot.gov	

# C. Project Information and Prior Project History

# 1. Project Information

1a. Name of project: \*

B-4620 Bridges 121 & 123 over Ashpole Swamp on SR 2455 (White Pond Pond)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town:\*

Fairmont

1d. Driving directions\*

If it is a new project and can not easily be found in a GPS mapping system Please provide directions. Bridges 121 & 123 over Ashpole Swamp on SR 2455 (White Pond Road)

# 2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

## 2c. Project Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country

# 2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Latitude:\*

Longitude:\*

34.447442

-79.165344

ex: 34.208504

-77.796371

# 3. Surface Waters

3a. Name of the nearest body of water to proposed project:\*

Ashpole Swamp

3b. Water Resources Classification of nearest receiving water:\*

C; Sw

Surface Water Lookup

3c. What river basin(s) is your project located in?\*

Lumber

River Basin Lookup							
4. Project Description							
4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application:*  Rural residential, agriculture, fragmented forestland along stream corridors and floodplains.							
4b. Attach an 8 1/2 X 11 excerpt from the most recent version of DWR)	of the USGS topographic map indicating the location of the project site. (for						
Click the upload button or drag and drop files here to attach document File type must be pdf							
4c. Attach an 8 1/2 X 11 excerpt from the most recent version of (for DWR)	of the published County NRCS Soil Survey map depicting the project site.						
Click the upload button or drag and drop files here to attach document File type must be pdf							
4d. List the total estimated acreage of all existing wetlands on 7.3	the property:						
4e. List the total estimated linear feet of all existing streams or (intermittent and perennial) 479	1 the property:						
4f. Explain the purpose of the proposed project: Replace Bridges 121 and 123 in Robeson County							
4g. Describe the overall project in detail, including the type of	equipment to be used:						
The NCDOT proposes to replace Bridges 121 and 123 on SR 2455 (White Pond Road) over Ashpole Swamp in Robeson County, North Carolina. Standard roadway construction methods and equipment will be used. The proposed review date is 1/30/2018, and proposed let date is 3/20/2018.							
<b>4h. Please upload project drawings for the proposed project.</b> Click the upload button or drag and drop files here to attach document							
B-4620 attachments.pdf File type must be pdf	4.39MB						
5. Jurisdictional Determinations							
5a. Have the wetlands or streams been delineated on the prop	erty or proposed impact areas?*						
⊙ Yes C No	C Unknown						
Comments:							
5b. If the Corps made a jurisdictional determination, what type	of determination was made?*						
© Preliminary © Approved	C Unknown						
Corps AID Number:  Example: SAW-2017-99999  SAW-2013-00016							
5c. If 5a is yes, who delineated the jurisdictional areas?							
Name (if known):	Robert Turnbull						
Agency/Consultant Company:	Environmental Services, Inc.						
Other:							
5d. If yes, list the dates of the Corps jurisdictional determination	ons or State determinations and attach documentation.						

8/6/2013							
5d1. Jurisdictional determal Click the upload button or drag and of B-4620 JD.pdf File type must be PDF	-	ment	3.13MB				
6. Project History							
6a. Have permits or certif		sted or obtained for this p		prior phases	) in the past?	*	
7. Future Project Pla	ans						
7a. Is this a phased proje	ct?** ⊙ No						
	ted activity? This inc	t(s), or individual permits( ludes other separate and struction notification.					À
D. Proposed II	mpacts Inve	entory					
1. Impacts Summa	ary						
1a. Where are the impact	s associated with yo	ur project? (check all that	apply):				
<b>▼</b> Wetlands		Streams-tributaries	Г	Buffers			
Open Waters		Pond Construction					
2. Wetland Impact If there are wetland impacts		then complete this question f	or each wetland area i	mpacted.			
2a. Site # - Reason for impact	2b. Impact type *	2c. Type of wetland	2d. Wetland name	2e. Forested	2f. Jurisdiction type	2g. Impact area	
Bridge #121 Map label (e.g. Road Crossing 1)	P Permanent (P) or Temporar (T)	Riverine Swamp Forest	Site 1	Yes	<b>Both</b> (404, 10) or DWR (401, other)	<b>0.010</b> (acres)	
Roadway fill between bridges Map label (e.g. Road Crossing 1)	P Permanent (P) or Temporar (T)	Riverine Swamp Forest	Site 1/2	Yes	<b>Both</b> (404, 10) or DWR (401, other)	<b>0.080</b> (acres)	
2g. Temporary Wetland In	npact						
2g. Permanent Wetland In	mpact						
2g. Total Wetland Impact 0.090							
handclearing for utilities. Ins	stallation of erosion corfor the installation of er	99 acre of handclearing, and atrol measures will involve 0.0 osion control measures, inclu	3 acre of temporary fil	l in wetlands			
3. Stream Impacts	3						

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

# 4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Site # - Reason for impact	4b. Impact type	4c. Name of waterbody	4d. Activity type	4e. Waterbo type	dy4f. Impact area
Bridge #121 Map label (e.g. Road Crossing 1)	<b>T</b> Permanent (P) or Temporary (T)	Ashpole Swamp (if applicable)	Bridge	Tributary	<b>0.01</b> (acres)
Bridge #123 Map label (e.g. Road Crossing 1)	<b>T</b> Permanent (P) or Temporary (T)	Ashpole Swamp (if applicable)	Bridge	Tributary	<b>0.01</b> (acres)

4g. Total temporary open water Impacts:

0.02

4g. Total permanent open water impacts:

0.00

4g. Total open water impacts:

0.02

4h. Comments:

impact at each site is >0.01 however 0.01 has to be entered

# Pond or Lake Construction

If pond or lake construction is proposed, then complete the chart below.

# 6. Buffer Impacts (for DWR)

If project will impact a protected riparian buffer, then complete the chart below. Individually list all buffer impacts below.

# **E. Impact Justification and Mitigation**

# 1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project:\*

Replacement on existing alignment with an offsite detour. Rip rap pads will be used at all ditch outlets to reduce flow into wetlands. The proposed improvements will not require deck drains. 3:1 slopes will be used in jurisdictional areas.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques:\*

Replacement on existing alignment with an offsite detour. BMP's for Construction and Maintenance Activities will be adhered to.

- Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State
- 2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

C Yes C No

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

<sup>\*\*</sup> All Perennial or Intermittent streams must be verified by DWR or delegated local government.

Due to minimal impacts to wetlands and surface waters no compensatory mitigation is proposed.

# F. Stormwater Management and Diffuse Flow Plan (required by DWR)

1a. Does this project require a Store Yes	ormwater Management Plan?					
<b>1b.</b> If this project DOES require a See attached permit drawings	Stormwater Management Plan, the	en provide a brief, narrative description of the plan:				
1c. What is the overall percent im	perviousness of this project?					
%						
1d. Who will be responsible for th	ne review of the Stormwater Mana	gement Plan?*				
☐ Certified Local Government ☐ DWR 401 & Buffer Permitting Bran		<ul><li>□ DEMLR Stormwater Review</li><li>☑ DWR Transportation Permitting Branch</li></ul>				
2. Diffuse Flow Plan						
2a. Does the project include or is Rules?	it adjacent to protected riparian b	uffers identified within one of the NC Riparian Buffer Protection				
C Yes	No					
lf no, explain why:						
5. DWR 401 Stormwater	r Review					
5a. Is the Stormwater Management   • Yes	nt Plan (including BMP Supplemen © No	tal Forms and Operation and Maintenance Agreements) attached?				
Stormwater Management Plan Up Click the upload button or drag and drop files her file type must be pdf						
G. Supplementary	Information					
Environmental Docum	nentation					
		/local) funds or the use of public (federal/state) land?*				
• Yes	C No					
requirements of the National or S	tate (North Carolina) Environment	eparation of an environmental document pursuant to the al Policy Act (NEPA/SEPA)? *				
• Yes	C No					
1c. If you answered "yes" to the a NEPA or SEPA final approval lette		een finalized by the State Clearing House? (If so, attach a copy of the				
• Yes	C No					
NEPA or SEPA Final Approval Lett Click the upload button or drag and drop files her FILETYPEMUST BEPDF						
2. Violations (DWR Req	2. Violations (DWR Requirement)					

	on of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), of Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)?
C Yes	⊙ No
2b. Is this an after-the-	fact permit application?*
C Yes	⊙ No
2c. If you answered "ye	es" to one or both of the above questions, provide an explanation of the violation(s):
3. Cumulative Im	pacts (DWR Requirement)
3a. Will this project (ba	ised on past and reasonably anticipated future impacts) result in additional development, which could impact ater quality?*
C Yes	⊙ No
3b. If you answered "n	o," provide a short narrative description.
'	portation impact resulting from this bridge replacement, this project will neither influence mulate growth. Therefore, a detailed indirect or cumulative effects study will not be
4. Sewage Dispo	osal (DWR Requirement)
	the treatment methods and dispositions (non-discharge or discharge) of wastewater generated from the e wastewater will be treated at a treatment plant, list the capacity available at that plant.
5. Endangered S	Species and Designated Critical Habitat (Corps Requirement)
5a. Will this project occ ⊙ Yes	cur in or near an area with federally protected species or habitat? *  © No
5b. Have you checked C Yes	with the USFWS concerning Endangered Species Act impacts?*  ⊙ No
5c. If yes, indicate the	USFWS Field Office you have contacted.
5d. Is this a DOT project  ⊙ Yes  ○ No	ct located within Division's 1-8?*
	did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?* USFWS and NMFS websites
6. Essential Fish	Habitat (Corps Requirement)
6a. Will this project occ	cur in or near an area designated as an Essential Fish Habitat? <sup>★</sup>
<b>6b. What data sources</b> NMFS	did you use to determine whether your site would impact an Essential Fish Habitat?*
7. Historic or Pre	ehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: http://gis.ncdcr.gov/hpoweb/

	ear an area that the state, federal or tribal governments have designated as having historic or cultural al Historic Trust designation or properties significant in North Carolina history and archaeology)? *
<b>7b. What data sources did you us</b> NEPA documentation	e to determine whether your site would impact historic or archeological resources?*
7c. Historic or Prehistoric Informa Click the upload button or drag and drop files her File must be PDF	
8. Flood Zone Designation	on (Corps Requirement)
Link to the FEMA Floodplain Maps	s: https://msc.fema.gov/portal/search
8a. Will this project occur in a FER	MA-designated 100-year floodplain?*  C No
8b. If yes, explain how project me NCDOT Hydraulics Unit coordination	·
8c. What source(s) did you use to FEMA maps	make the floodplain determination?*
Miscellaneous attachments not p Click the upload button or drag and drop files her File must be PDF	
Signature	
<ul><li>★</li><li>✓ By checking the box and signing b</li></ul>	pelow, I certify that:
<ul> <li>I agree that submission of this P Transactions Act");</li> <li>I agree to conduct this transaction Transactions Act");</li> </ul>	complete information on this form; PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic on by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND d submit the PCN form.
Full Name:* Colin Mellor	
Signature	
Colin Mellor	



### **North Carolina Department of Transportation**

## **Highway Stormwater Program** STORMWATER MANAGEMENT PLAN





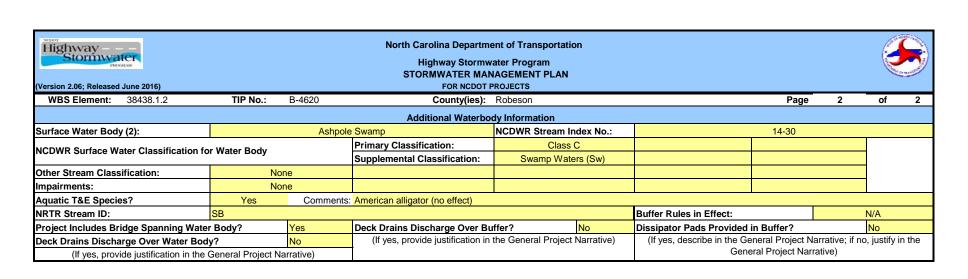
General Project Narrative)

Version 2.06; Released June 2016) FOR NCDOT PROJECTS WBS Element: 38438.1.2 TIP No.: B-4620 County(ies): Robeson Page **General Project Information** B-4620 WBS Element: 38438.1.2 TIP Number: Project Type: Bridge Replacement Date: 9/22/2017 NCDOT Contact: Paul Atkinson Contractor / Designer: Raiender Gaddam, PE, CFM Will Weathersbee, PE Address: 1020 Birch Ridge Rd. Address: 1520 South Blvd, Suite 200 Raleigh, NC 27610 Charlotte, NC 28203 Phone: 919-707-6707 Phone: 704-940-4785 Email: patkinson@ncdot.gov Email: rajender.gaddam@rsandh.com will.weathersbee@rsandh.com City/Town: County(ies): Robeson River Basin(s): Lumber CAMA County? No Wetlands within Project Limits? Yes **Project Description** Woods, Residential, Agricultural Project Length (lin. miles or feet): **Surrounding Land Use:** 930' **Proposed Project Existing Site** Project Built-Upon Area (ac.) 0.5 Typical Cross Section Description: Two 11' lanes with 2' shoulders on the approach, and two 11' lanes with 4'-5" shoulders Two 10' lanes with no shoulder on the approach, and two 10' lanes with 2' shoulders on the bridge on the bridge. Annual Avg Daily Traffic (veh/hr/day): Design/Future: 1582 Year: 2038 Existing: 1036 Year: 2018 This is a bridge replacement project. Existing bridge 121 has a span arrangement of 1 span @ 20'-4", 1 span @ 20, 1 span @ 19'-8", and 1 span @ 20'-8", with a reinforced General Project Narrative: (Description of Minimization of Water concrete floor on I-Beams. The endbents and interior bents have reinforced concrete caps and timber piles with crutch bents. The proposed bridge will go in the existing location. Proposed bridge 121 is a 1 span @ 45', 1 span @ 55', and 1 span @ 45', 21" cored slab bridge with 4' end bent caps. The proposed improvements will not require Quality Impacts) deck drains. The bridge will have 1 drop inlet at the downslope end of the approach slab to collect deck drainage with a single outlet to the downstream side of the bridge. Rip rap pads will be used at all ditch outlets to reduce flow into wetlands. Existing bridge 123 has a span arrangement of 1 span @ 20'-6", 2 spans @ 20', 1 span @ 20'-3" with a reinforced concrete floor on I-Beams. The endbents and interior bents have reinforced concrete caps and timber piles with crutch bents. The proposed bridge will go in the existing location. Proposed bridge 123 is a 1 span @ 35', 1 span @ 55', and 1 span @ 40', 21" cored slab bridge with 4' end bent caps. The proposed improvements will not require deck drains. The bridge will have 1 drop inlet at the downslope end of the approach slab to collect deck drainage with a single outlet to the downstream side of the bridge. Rip rap pads will be used at all ditch outlets to reduce flow into wetlands. The proposed bridges will provide an increase in flow area and take bents out the the channel. **Waterbody Information** NCDWR Stream Index No.: 14-30 Surface Water Body (1): Ashpole Swamp Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Swamp Waters (Sw) Other Stream Classification: None Impairments: None Aquatic T&E Species? Comments: American alligator (no effect) Yes NRTR Stream ID: **Buffer Rules in Effect:** N/A Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? No Yes (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the

No

Deck Drains Discharge Over Water Body?

(If yes, provide justification in the General Project Narrative)



00:04 PMICO : EXMINISTERIAL OFFICIAL CANTIGOS CONCENTRALED

4620

Ø

IE

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# ROBESON COUNTY

LOCATION: REPLACE BRIDGES 121 AND 123 OVER ASHPOLE SWAMP ON SR 2455 (WHITE POND ROAD)

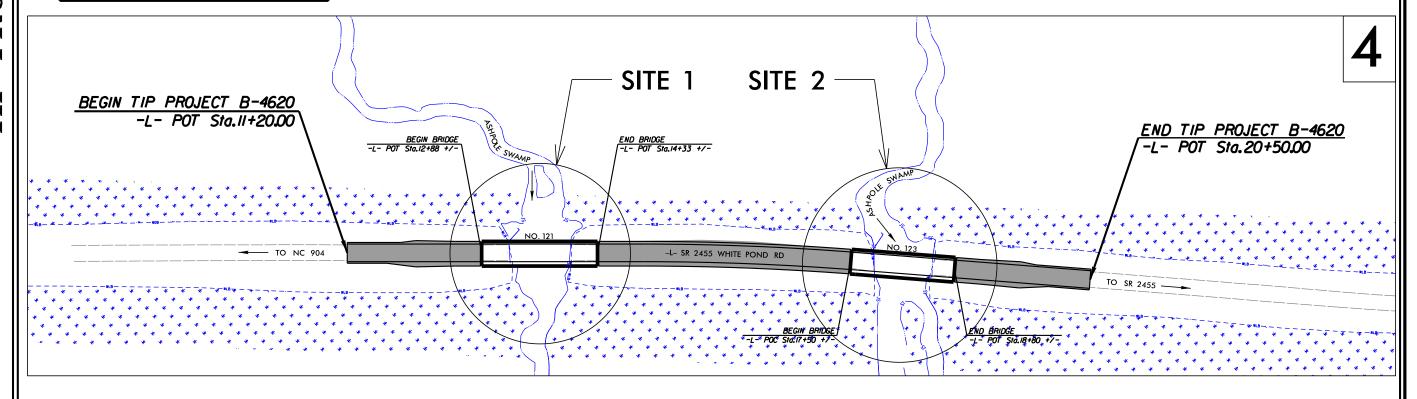
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURES

WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATI	NO.	SHEETS		
N.C.		1			
STAT	B PROJ. NO.	P. A. PROJ. NO.		DESCRIPT	ION
38	438.1.2	BRZ-2455 (3)		PE	
		·			

PERMIT DRAWING SHEET 1 OF 8





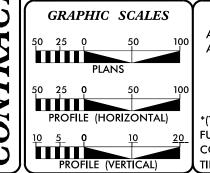
THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD \_\_.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



# DESIGN DATAADT 2018 = 1,036

ADT 2018 = 1,036 ADT 2038 = 1,582 K = 10 %

K = 10 % D = 55 % T = 8 % \*

V = 60 MPH
\*(TTST=2% + DUAL=6%)
FUNC CLASS = MINOR
COLLECTOR SUB-REGIONAL

# PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4620 = 0.124 MILES

LENGTH STRUCTURE TIP PROJECT B-4620 = 0.052 MILES

TOTAL LENGTH TIP PROJECT B-4620 = 0.176 MILES

0.176 MILES RIGH

LETTING DATE: MARCH 20, 2018

# 

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

MARCH 17, 2017

JENNIFER FARINO, PE
PROJECT ENGINEER

LARFO, BOND, PE

JARED BOND, PE
PROJECT DESIGN ENGINEER
GARY LOVERING, PE

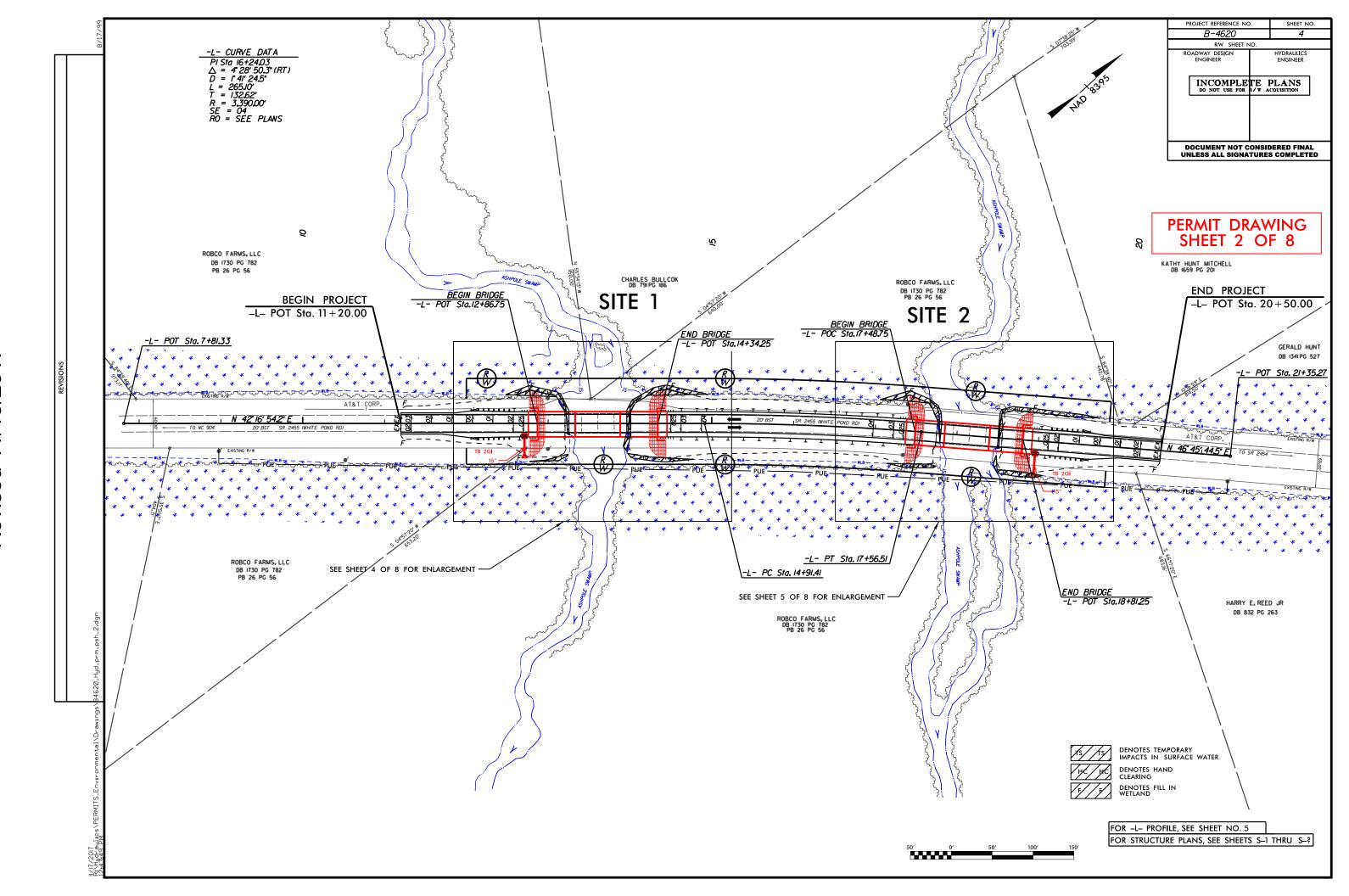
NCDOT CONTACT

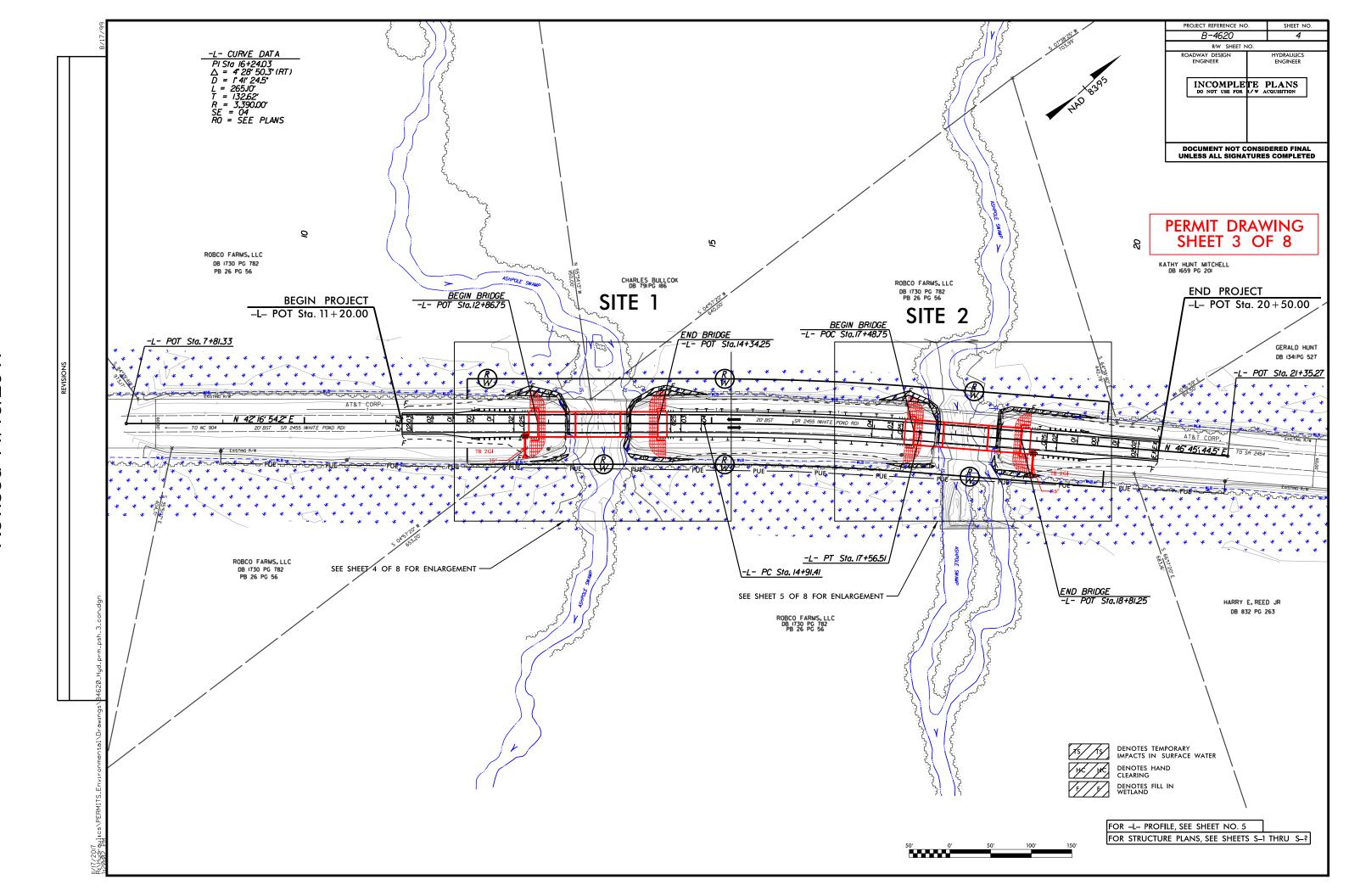
ROADWAY DESIGN ENGINEER

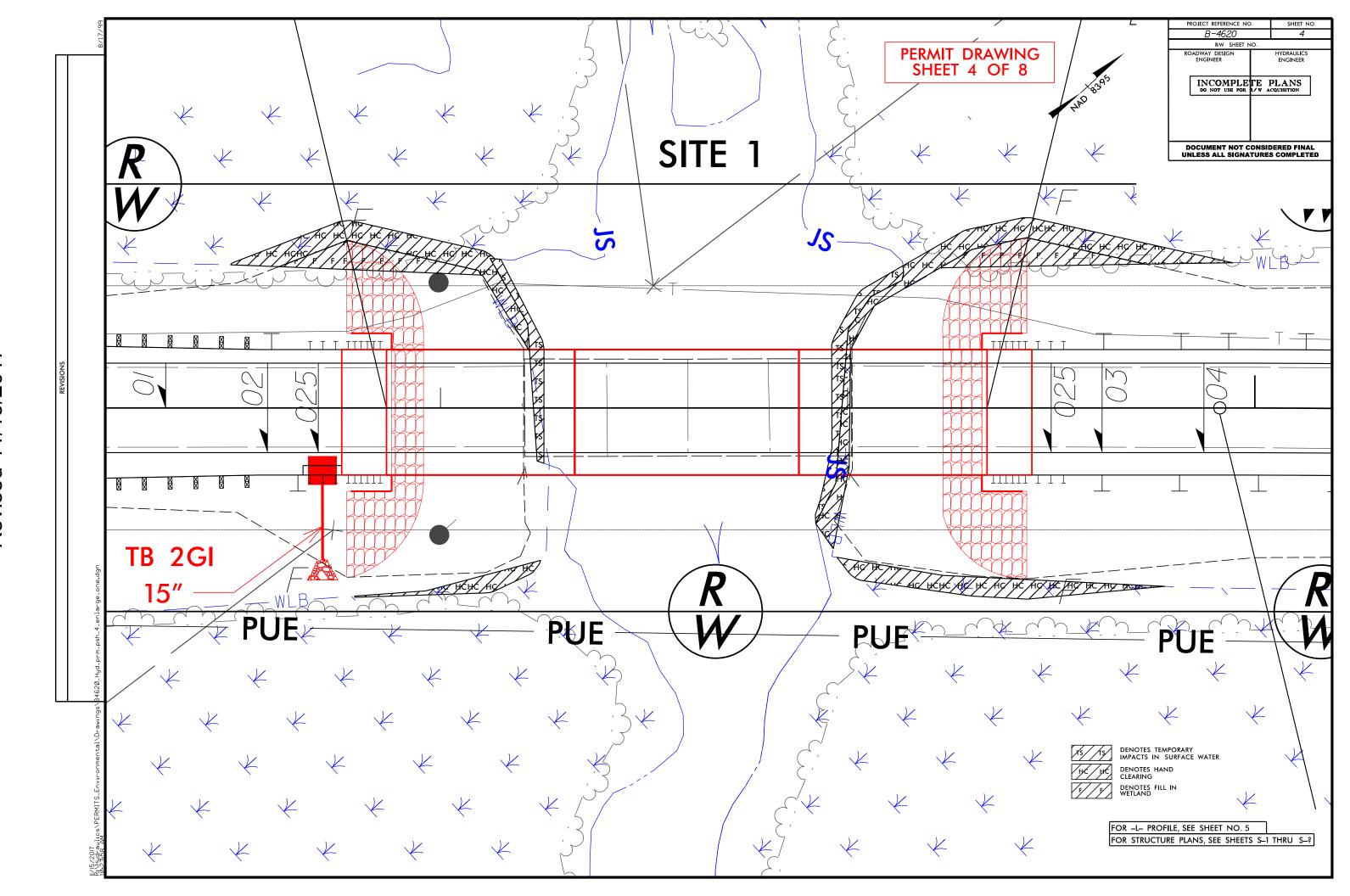
SIGNATURE:

HYDRAULICS ENGINEER

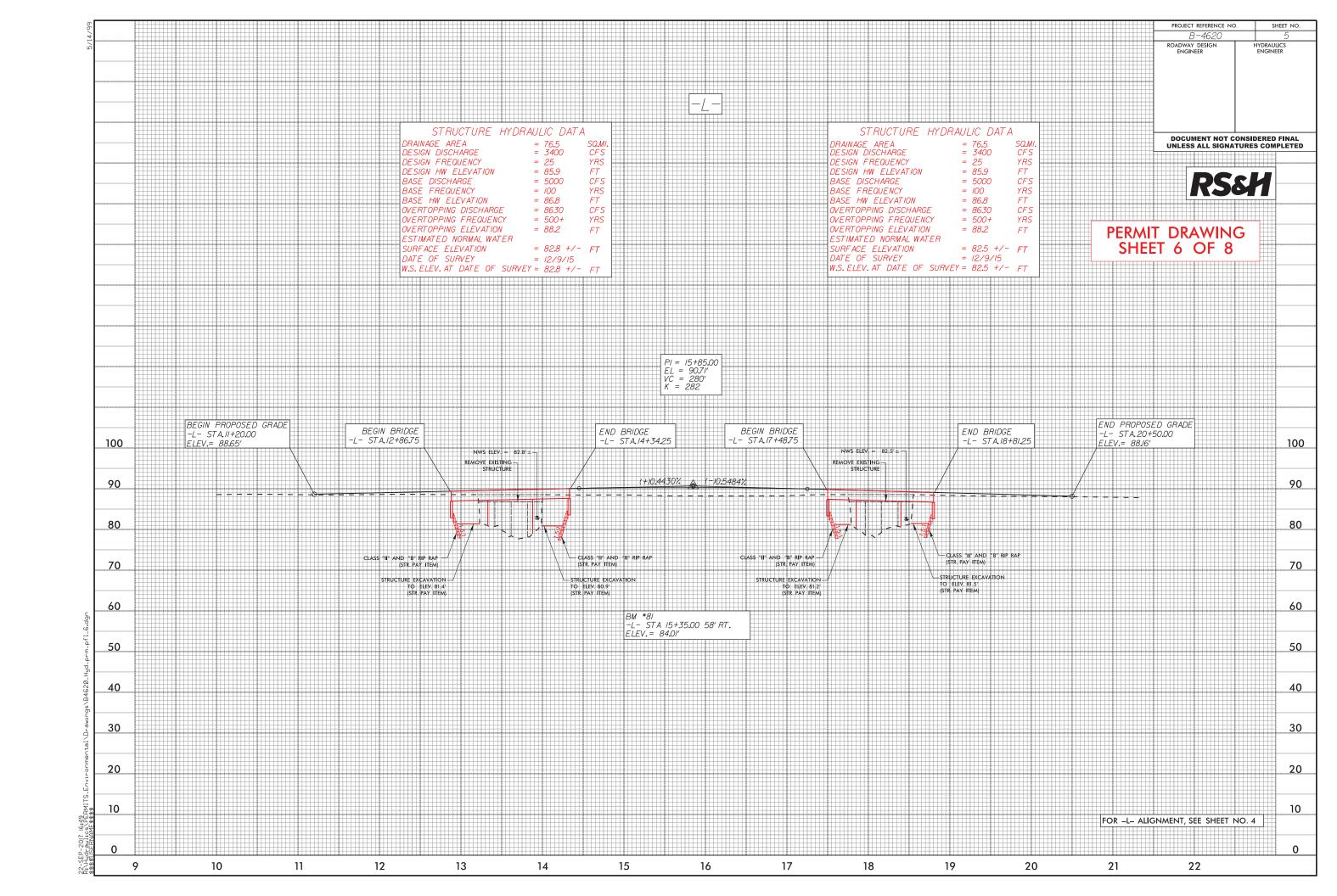


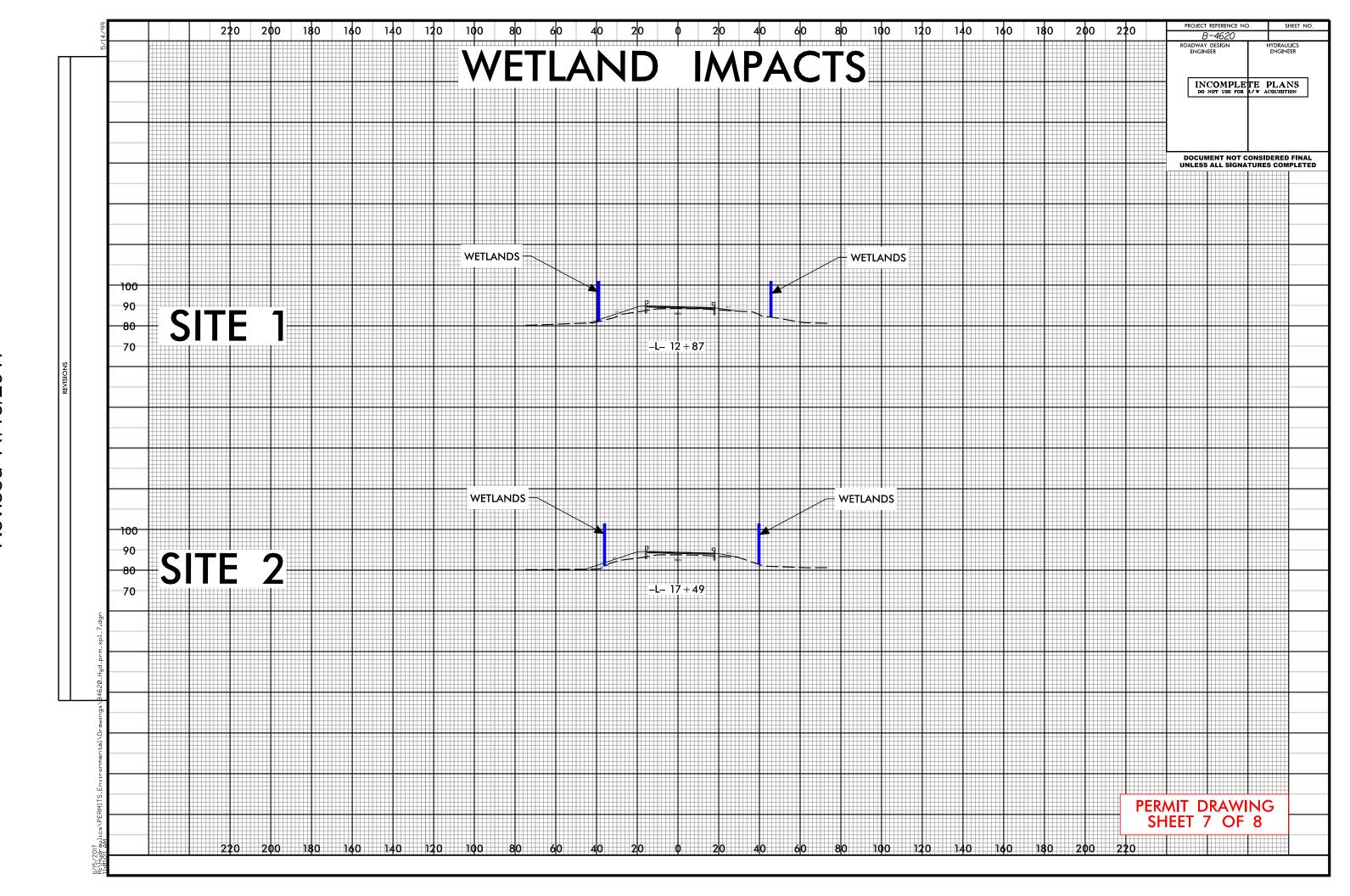






Revised 11/15/2017





					TLAND IMPA	TIT IMPACT S			SURFA	ACE WATER IM	PACTS	
							Hand			Existing	Existing	$\overline{}$
			Permanent	Temp.	Excavation	Mechanized	Clearing	Permanent	Temp.	Channel	Channel	Natural
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW	Impacts	Impacts	Stream
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	_	Wetlands	impacts	impacts	Permanent	Temp.	Design
110.	(, 10)	3.267 1966	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
1	-L- 12+50 / 14+95	Bridge 121	< 0.01	(40)	(de)	(de)	0.03	(ac)	< 0.01	(10)	(10)	(10)
2	-L- 17+04 / 19+75	Bridge 123 and Roadway Fill	< 0.01				0.03		< 0.01			-
	2 17 10 17 13 173	Briage 123 and Redaway I iii	10.01				0.03		1 0.01			
												-
											-	
											-	

<sup>\*</sup>Rounded totals are sum of actual impacts

NOTES: There will be 0.02 acre of temporary fill in wetlands in the hand clearing areas for erosion control measures.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
11/15/2017
Robeson
B-4620

38438.1.2

SHEET 8 OF 8

Revised 2013 10 24

620 B

**PROJECT** 

**LOCATION** 

**→ → DETOUR** 

VICINITY MAP

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

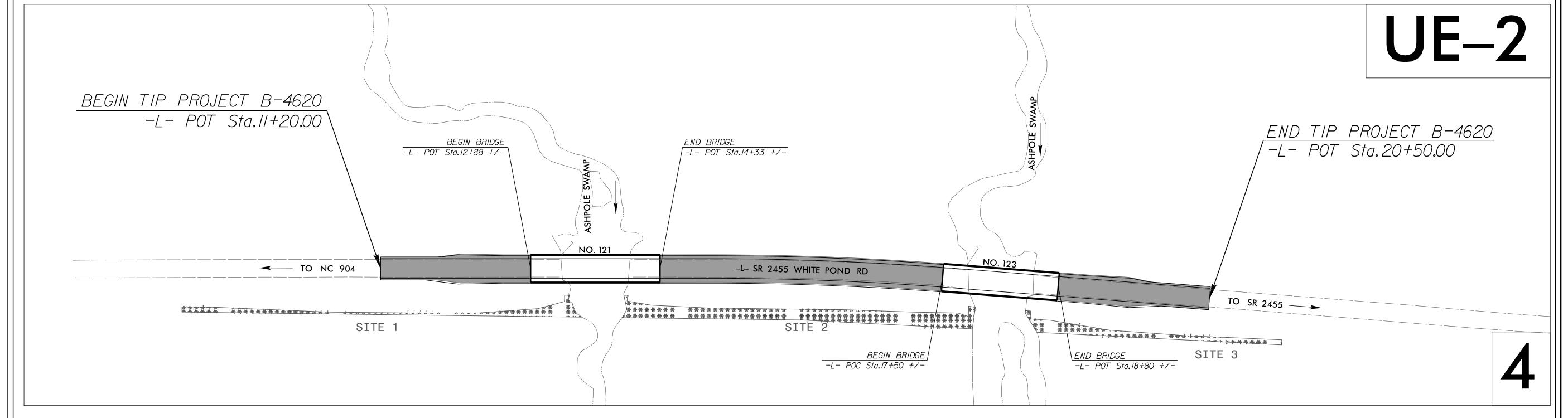
T.I.P. NO. SHEET NO. B-4620 UE<sub>-1</sub>

> PERMIT DRAWING SHEET 1 OF 2 UTILITIES

# UTILITY PERMIT DRAWINGS ROBESON COUNTY

LOCATION: REPLACE BRIDGES 121 AND 123 OVER ASHPOLE SWAMP ON SR 2455 (WHITE POND ROAD)

WETLAND IMPACTS



# GRAPHIC SCALES 50 25 0 50 25 0 PROFILE (HORIZONTAL) PROFILE (VERTICAL)

INDEX OF SHEETS **DESCRIPTION:** SHEET NO.: *UE-1* TITLE SHEET *UE-2* UTILITY WETLAND IMPACTS

# UTILITY OWNERS WITH CONFLICTS

(A) POWER - DUKE ENERGY (B) COMMUNICATIONS - AT&T



1223 Jones Franklin Road Raleigh, N.C. 27606 License No. F–0377 Bus: 919 851 8077 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



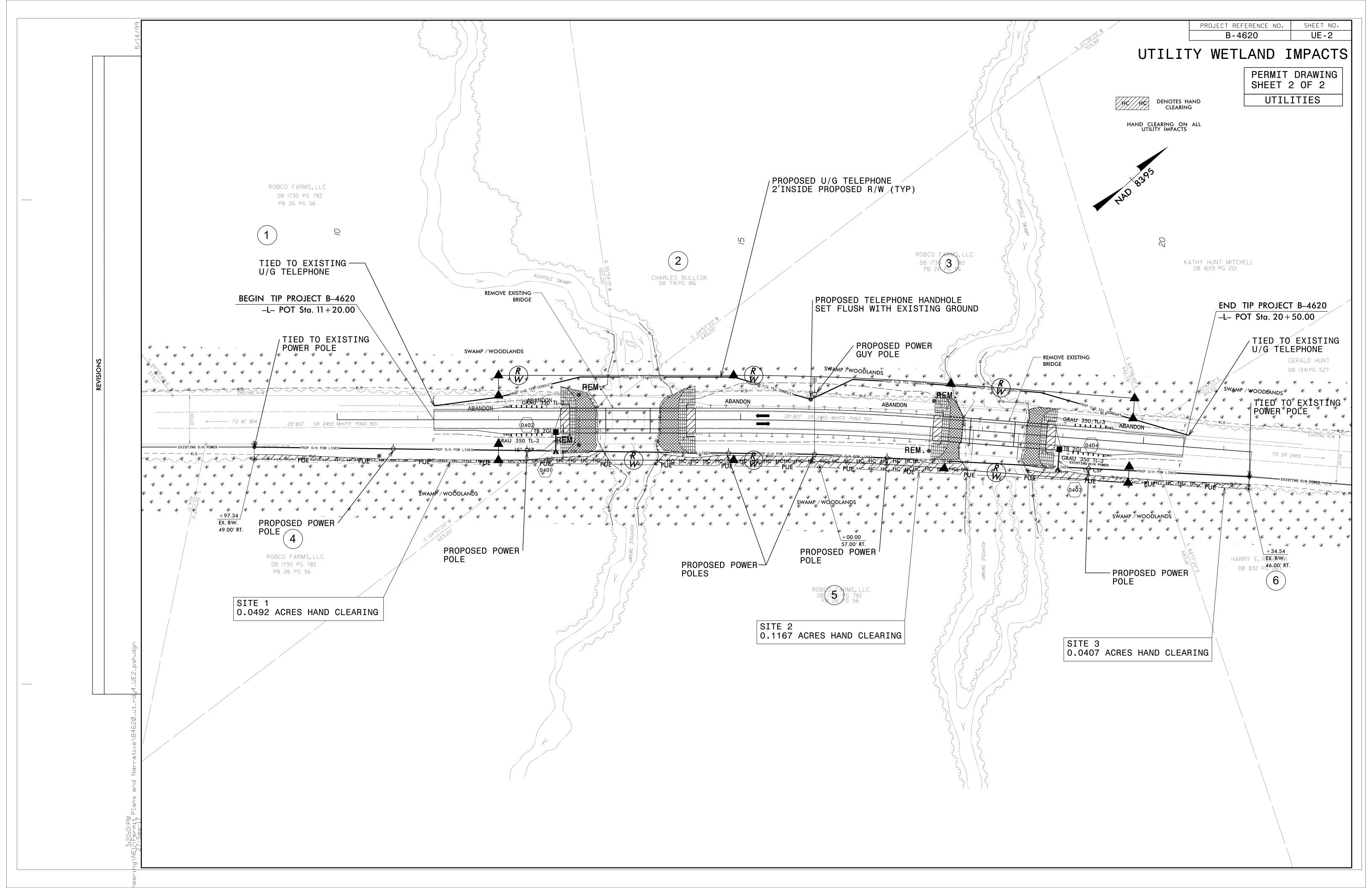
Larry James

**DIVISION OF HIGHWAYS** UTILITIES UNIT 1555 MAIL SERVICES CENTER RALEIGH NC 27699–1555 PHONE (919) 707–6690 FAX (919) 250-4151

UTILITIES COORDINATOR

Bo Hemphill, PE	UTILITIES REGIONAL ENGINEE
Kifah Kamil	UTILITIES ENGINEER
Ed Reams	UTILITIES AREA COORDINATOR

John D. Schriner, PLS PROJECT UTILITY COORDINATOR



					•							
			WETLAND IMPACTS				SURFACE WATER IMPACTS					
Site No.	Station (From/To)	Structure Size / Type	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	8+97 to 13+40 RT	Power Lines	,	,	,	,	0.05	,		, ,	, ,	, ,
2	13+92 to 17+90 RT	Power Lines					0.12					
3	18+45 to 21+35 RT	Power Lines					0.04					
			<u> </u>									
TOTALS	S:					l	0.21					

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY B-4620

SHEET 1 OF 1 19/Oct/17

# 4620

See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbols See Sheet 1C-1 For Survey Control Sheet

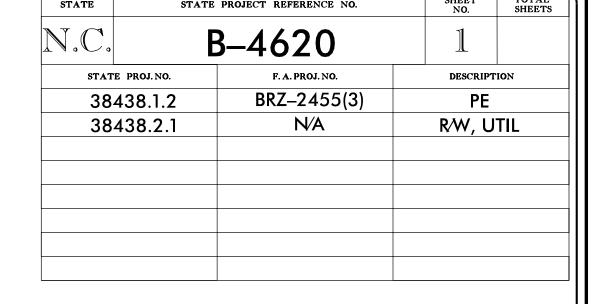
**→ DETOUR** 

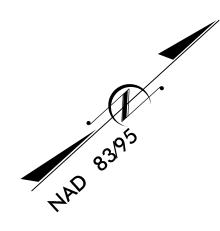
VICINITY MAP

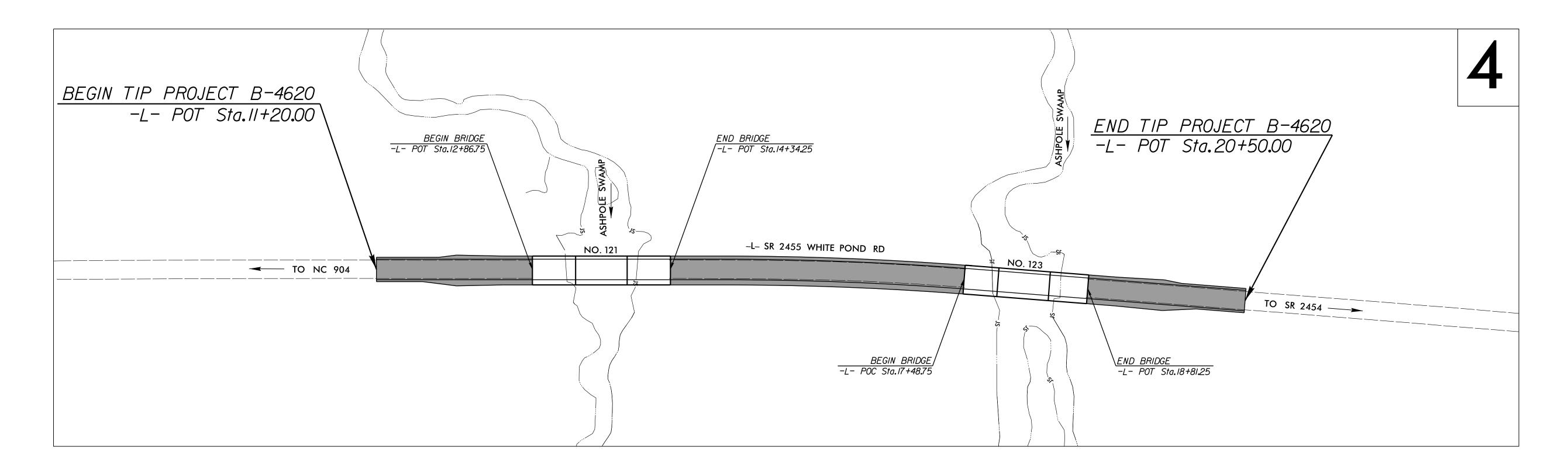
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

ROBESON COUNTY

LOCATION: REPLACE BRIDGES 121 AND 123 OVER ASHPOLE SWAMP ON SR 2455 (WHITE POND ROAD) TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURES

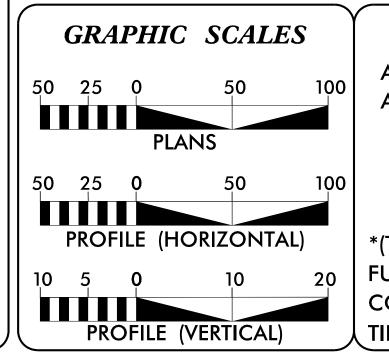






THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA ADT 2018 = 1,036ADT 2038 = 1,582

K = 10 %D = 55 %V = 60 MPH\*(TTST = 2% + DUAL = 6%)

FUNC CLASS = MINOR COLLECTOR SUB-REGIONAL

# PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4620 0.123 MILES LENGTH STRUCTURES TIP PROJECT B-4620 = 0.053 MILES 0.176 MILES TOTAL LENGTH TIP PROJECT B-4620

# PLANS PREPARED BY:

RS&H Architects-Engineers-Planners, Inc. 8601 SIX FORKS RD, SUITE 260 RALEIGH, NC 27615

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 22, 2017

LETTING DATE: MARCH 20, 2018

# 919-926-4100

JENNIFER FARINO, PE PROJECT ENGINEER

JARED BOND, PE PROJECT DESIGN ENGINEER GARY LOVERING, PE

ROADWAY DESIGN **ENGINEER** 

SIGNATURE:

NCDOT CONTACT

**SIGNATURE**:

HYDRAULICS ENGINEER

PROJECT REFERENCE NO. B-4620

# **BOUNDARIES AND PROPERTY:**

State Line ——

<u> </u>
×
(123)
×××_
· · · · · · · · · · · · · · · · · · ·
——————————————————————————————————————
WLB
EAB
EPB
TURE:
O
<u> </u>
<b>→</b>
· · · · · · · · · · · · · · · · · · ·
# # # # # # # # # # # # # # # # # # #

# CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale \*S.U.E. = Subsurface Utility Engineering

# PAH POADS.

NAILNUADS:	
Standard Gauge —————	CSX TRANSPORTATION
RR Signal Milepost ————————————————————————————————————	⊙ MILEPOST 35
Switch ————	SWITCH
RR Abandoned ————	<del></del>
RR Dismantled ————	
RIGHT OF WAY:	
Baseline Control Point	•
Existing Right of Way Marker ————	$\triangle$
Existing Right of Way Line	
Proposed Right of Way Line	$\frac{\overline{R}}{W}$
Proposed Right of Way Line with Iron Pin and Cap Marker	$ \begin{array}{c c}                                    $
Proposed Right of Way Line with  Concrete or Granite R/W Marker	
Proposed Control of Access Line with Concrete C/A Marker	
Existing Control of Access	(Ĉ\
Proposed Control of Access —————	-
Existing Easement Line ————————————————————————————————————	
Proposed Temporary Construction Easement –	_
Proposed Temporary Drainage Easement —	
Proposed Permanent Drainage Easement —	
Proposed Permanent Drainage / Utility Easement	
Proposed Permanent Utility Easement ———	
Proposed Temporary Utility Easement ———	
Proposed Aerial Utility Easement ————	
	——— AUE ———
Proposed Permanent Easement with  Iron Pin and Cap Marker	<b>♦</b>
ROADS AND RELATED FEATURE	<i>S:</i>
Existing Edge of Pavement	
xisting Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill —————	<del>F</del>
Proposed Curb Ramp	
xisting Metal Guardrail ——————	
Proposed Guardrail ————————————————————————————————————	<u> </u>
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	•
Pavement Removal	
VEGETATION:	
Single Tree —————————————————————————————————	tt tt
Single Shrub	Ę3
_	
Hedge ————	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Orchard —	·		
Vineyard ————————————————————————————————————	Vineyard		
EXISTING STRUCTURES:			
MAJOR:			
Bridge, Tunnel or Box Culvert ——— [	CONC		
Bridge Wing Wall, Head Wall and End Wall —	) CONC WW (		
MINOR: Head and End Wall	CONC HW		
Pipe Culvert			
Footbridge ————————————————————————————————————			
Drainage Box: Catch Basin, DI or JB	СВ		
Paved Ditch Gutter			
Storm Sewer Manhole ————	S		
Storm Sewer —	s		
UTILITIES:			
POWER:			
Existing Power Pole ————	lack		
Proposed Power Pole ————	6		
Existing Joint Use Pole ————			
Proposed Joint Use Pole ————	-6-		
Power Manhole ————	P		
Power Line Tower ————			
Power Transformer ————	$\overline{\mathcal{M}}$		
U/G Power Cable Hand Hole			
H-Frame Pole	•		

TELEPHONE:	
Existing Telephone Pole	-
Proposed Telephone Pole ————	-0-
Telephone Manhole	$\bigcirc$
Telephone Pedestal —————	T
Telephone Cell Tower	<b>,</b>
U/G Telephone Cable Hand Hole ———	H <sub>H</sub>
U/G Telephone Cable LOS B (S.U.E.*) —	t
U/G Telephone Cable LOS C (S.U.E.*) ————	T
U/G Telephone Cable LOS D (S.U.E.*) ——	T
U/G Telephone Conduit LOS B (S.U.E.*) —	- — — TC— — — —
U/G Telephone Conduit LOS C (S.U.E.*)———	TC
U/G Telephone Conduit LOS D (S.U.E.*)———	TC
U/G Fiber Optics Cable LOS B (S.U.E.*) — – –	- — — T FO— — ·
U/G Fiber Optics Cable LOS C (S.U.E.*)———	— — T FO— — ——
U/G Fiber Optics Cable LOS D (S.U.E.*)——	T FO

U/G Power Line LOS B (S.U.E.\*)

U/G Power Line LOS C (S.U.E.\*)

U/G Power Line LOS D (S.U.E.\*)

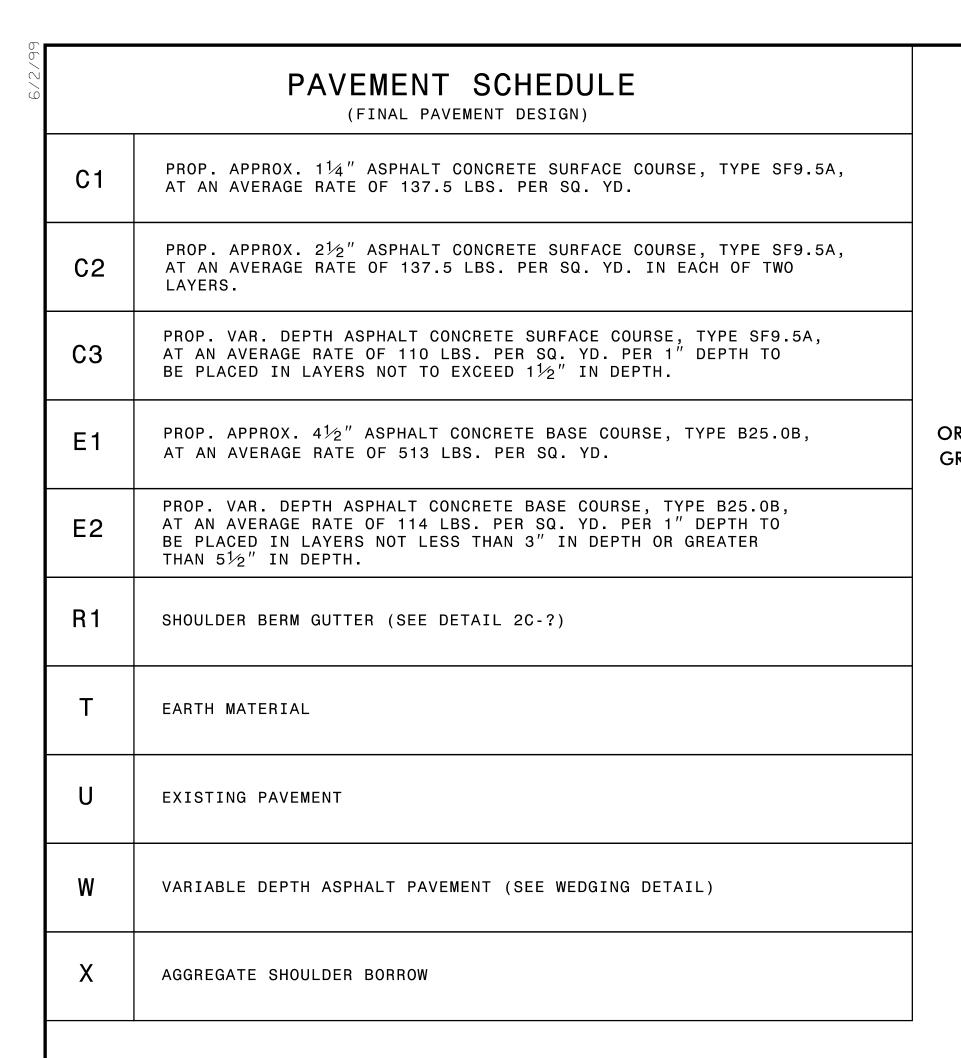
WATER:	
Water Manhole	W
Water Meter	
Water Valve	$\otimes$
Water Hydrant ————————————————————————————————————	<b>₽</b>
U/G Water Line LOS B (S.U.E*)	w
U/G Water Line LOS C (S.U.E*)	
U/G Water Line LOS D (S.U.E*)	
Above Ground Water Line	
TV:	
TV Pedestal ————————————————————————————————————	C
TV Tower —	$\bigotimes$
U/G TV Cable Hand Hole	H <sub>H</sub>
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	тv
U/G TV Cable LOS D (S.U.E.*)	TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	TV F0
GAS:	
Gas Valve	$\Diamond$
Gas Meter ———————————————————————————————————	$\Diamond$
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	A/G Gas
SANITARY SEWER:	
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout ——————	$\widehat{+}$
U/G Sanitary Sewer Line —————	
Above Ground Sanitary Sewer ————	A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*) ———	— — — FSS— — — —
SS Forced Main Line LOS C (S.U.E.*) ———	——————————————————————————————————————
SS Forced Main Line LOS D (S.U.E.*)———	FSS——
MISCELLANEOUS:	
Utility Pole ——————	•
Utility Pole with Base —————	

Utility Pole ——————	
Utility Pole with Base —	
Utility Located Object —	
Utility Traffic Signal Box —	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil ————	
Underground Storage Tank, Approx. Loc. ——	
A/C T   W   C   O'	

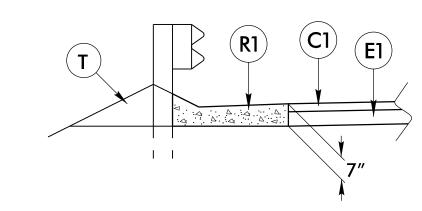
# A/G Tank; Water, Gas, Oil — Geoenvironmental Boring U/G Test Hole LOS A (S.U.E.\*)

 $\odot$ 

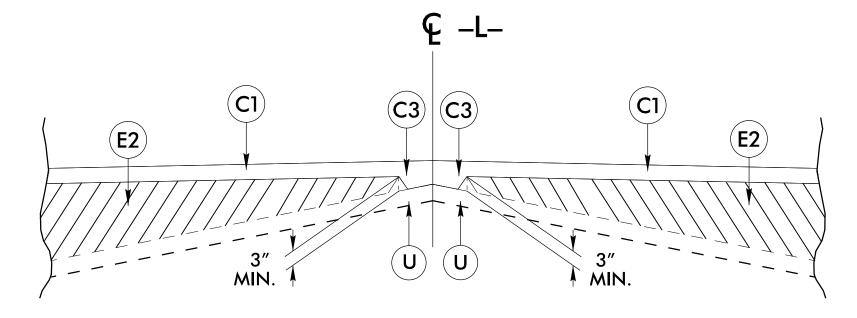
Abandoned According to Utility Records — **AATUR** End of Information E.O.I.



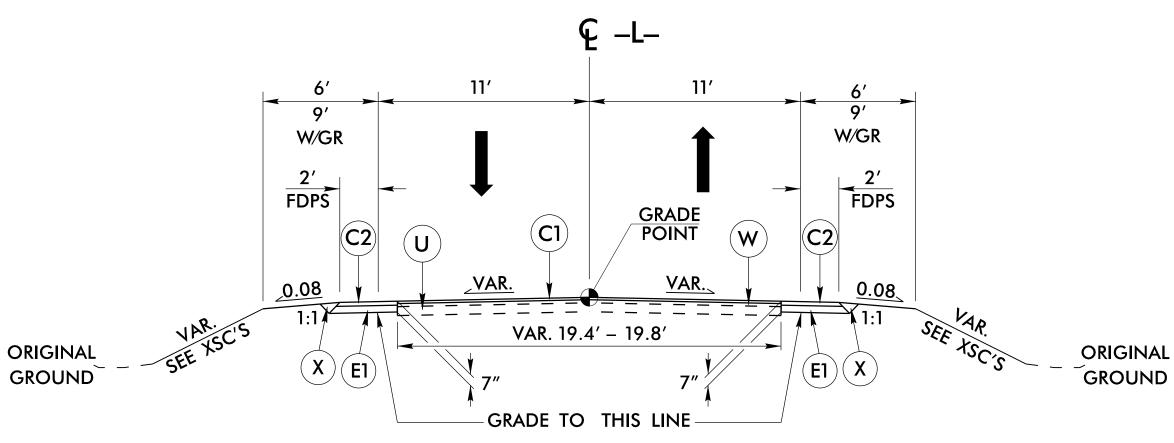
NOTE: ALL PAVEMENT SLOPES 1:1 UNLESS NOTED OTHERWISE



# SHOULDER BERM GUTTER ON TOP OF SUBGRADE DETAIL



STANDARD WEDGING DETAIL



RS&H

**DOCUMENT NOT CONSIDERED FINAL** 

**UNLESS ALL SIGNATURES COMPLETED** 

PROJECT REFERENCE NO.

B-4620

ROADWAY DESIGN

**ENGINEER** 

SHEET NO.

2A-/

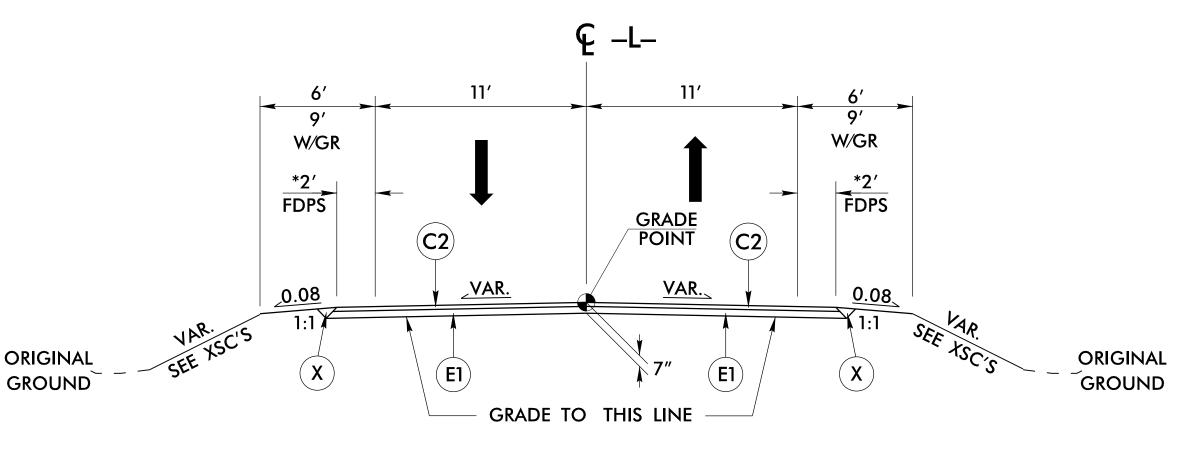
PAVEMENT DESIGN

ENGINEER

TYPICAL SECTION NO. 1

# USE TYPICAL SECTION NO. 1

-L- STA. 11 + 20.00 TO -L- STA. 11 + 40.00 -L- STA. 20 + 30.00 TO -L- STA. 20 + 50.00

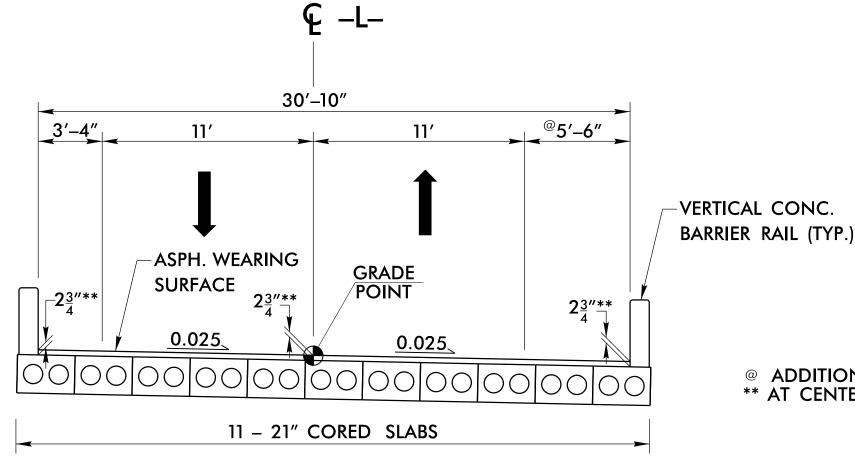


TYPICAL SECTION NO. 2

# USE TYPICAL SECTION NO. 2

\* PAVE TO FACE OF GUARDRAIL

-L- STA. 11 + 40.00 TO -L- STA. 12 + 86.75 (BEGIN BRIDGE) -L- STA. 14+34.25 (END BRIDGE) TO -L- STA. 17+48.75 (BEGIN BRIDGE) -L- STA. 18 + 81.25 (END BRIDGE) TO -L- STA. 20 + 30.00



@ ADDITIONAL WIDTH REQUIRED FOR HYDRAULIC SPREAD
 \*\* AT CENTERLINE BEARING

# TYPICAL SECTION ON STRUCTURE

# USE TYPICAL SECTION ON STRUCTURE

-L- STA. 12 + 86.75 (BEGIN BRIDGE) TO -L- STA. 14 + 34.25 (END BRIDGE) -L- STA. 17 + 48.75 (BEGIN BRIDGE) TO -L- STA. 18 + 81.25 (END BRIDGE)

