

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY GOVERNOR

May 28, 2013

ANTHONY J. TATA Secretary

U. S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue, Room 208 Asheville, NC 28801-5006

ATTN: Ms. Lori Beckwith NCDOT Coordinator

Dear Madam:

Subject: Application for Section 404 Nationwide 33, for the proposed replacement of Bridge No. 83 over Clark Creek SR 1149 in Catawba County, Federal Aid Project No. BRZ-1149(5); Division 12; TIP No. B-5101; WBS 42223.1.1.

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 83 over Clark Creek on SR 1149. There will be less than 0.01 acre (15 linear feet) of temporary stream impacts associated with the removal of an existing pier.

Please see enclosed copies of the Pre-Construction Notification (PCN), stormwater management plan, permit drawings, and design plans for the above referenced project. The Programmatic Categorical Exclusion (PCE) was completed in February 2012. Documents were distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of January 21, 2014 and a review date of December 3, 2013.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: <u>https://connect.ncdot.gov/resources/Environmental/Pages</u>. If you have any questions or need additional information, please contact Michael Turchy at <u>maturchy@ncdot.gov</u> or (919) 707-6157.

Sincerely E.J. Fuel

Gregory J. Thorpe, Ph.D., Manager Project Development and Environmental Analysis Unit

"cc" List: NCDOT Permit Application Standard Distribution List

MAILING ADDRESS: NC DEPARTMENT OF TRANSPORTATION PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS 1598 MAIL SERVICE CENTER RALEIGH NC 27699-1598 TELEPHONE: 919-707-6100 FAX: 919-212-5785 LOCATION: 1020 BIRCH RIDGE DRIVE RALEIGH NC 27610-4328

WEBSITE: WWW.NCDOT.ORG





Office Use Only: Corps action ID no. _____ DWQ project no. _____ Form Version 1.3 Dec 10 2008

	Pre-	Constru	uction Notification (PCN	I) Form	
Α.	Applicant Information				
1.	Processing				
1a.	Type(s) of approval sought from Corps:	the	Section 404 Permit Secti	on 10 Permit	
1b.	Specify Nationwide Permit (NWP) number: 3	33 or General Permit (G	P) number:	
1c.	Has the NWP or GP number bee	en verified b	by the Corps?	Yes	🛛 No
1d.	Type(s) of approval sought from	the DWQ (check all that apply):		
	A01 Water Quality Certificatio	n – Regula	ar 🗌 Non-404 Jurisdictiona	al General Permi	it
	401 Water Quality Certificatio	-		rization	
1e.	Is this notification solely for the re because written approval is not r		only for Corps Permit:		
			🛛 Yes 🗌 No	🗌 Yes	🖾 No
1f.			fee program proposed for mitigation tter from mitigation bank or in-lieu	Yes	🖾 No
1g.	Is the project located in any of N below.	C's twenty	coastal counties. If yes, answer 1h	🗌 Yes	🖾 No
1h.	Is the project located within a NC	DCM Area	a of Environmental Concern (AEC)?	🗌 Yes	🛛 No
2.	Project Information				
2a.	Name of project:	Replacem	nent of Bridge No. 83 over Clark Cree	ek on SR 1149.	
2b.	County:	Catawba			
2c.	Nearest municipality / town:	Newton			
	Subdivision name:	not applic	cable		
2e.	NCDOT only, T.I.P. or state project no:	B-5101			
3.	Owner Information	1			
За.	Name(s) on Recorded Deed:	North Car	rolina Department of Transportation		
	Deed Book and Page No.	not applic	cable		
	Responsible Party (for LLC if applicable):	not applic			
3d.	Street address:	1 South V	Vilmington Street		
	City, state, zip:	Raleigh, N	NC 27601		
	Telephone no.:	(919) 707			
3g.	Fax no.:	(919) 431	1-2002		
3h.	Email address:	maturchy	@ncdot.gov		

4.	Applicant Information (if diffe	erent from owner)
4a.	Applicant is:	Agent Other, specify:
4b.	Name:	not applicable
4c.	Business name (if applicable):	
4d.	Street address:	
4e.	City, state, zip:	
4f.	Telephone no.:	
4g.	Fax no.:	
4h.	Email address:	
5.	Agent/Consultant Information	n (if applicable)
5a.	Name:	not applicable
5b.	Business name (if applicable):	
5c.	Street address:	
5d.	City, state, zip:	
5e.	Telephone no.:	
5f.	Fax no.:	
5g.	Email address:	

В.	Project Information and Prior Project History								
1.	Property Identification								
1a.	Property identification no. (tax PIN or parcel ID):	not applicable							
1b.	Site coordinates (in decimal degrees):	Latitude: 35.6639 (DD.DDDDDD		Longitude: - 81.25380 (-DD.DDDDDD)					
1c.	Property size:	3 acres							
2.	Surface Waters								
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Clark Creek							
2b.	Water Quality Classification of nearest receiving water:	С							
2c.	River basin:	Catawba							
3.	Project Description								
За.	Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Mixed use of agricultural, forested & rural low density residential								
0	Mixed use of agricultural, forested & rural low density residential.								
3b.	. List the total estimated acreage of all existing wetlands on the property:								
	0								
3c.	 List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 100 								
3d.	 Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge. 								
3e.	e. Describe the overall project in detail, including the type of equipment to be used: Replacement of bridge number 83, a three span, 106' structure, with a three span 130' structure, over Clark Creek on SR 1149. Cranes, backhoes, excavators will be used.								
4.	Jurisdictional Determinations								
4a.	Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments:	🗌 Yes 🛛	No	Unknown					
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	Preliminary	Final						
4c.	If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultar Other:	nt Company	:					
4d.	If yes, list the dates of the Corps jurisdictional determinations of	or State determination	ons and atta	ach documentation.					
5.	Project History								
5a.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	🗆 Yes 🛛	No	Unknown					
5b.	If yes, explain in detail according to "help file" instructions.								
6.	Future Project Plans								
6a.	Is this a phased project?	🗌 Yes 🛛 🖂	No						
6b.	If yes, explain.								

C. Proposed Imp	acts Inventory						
1. Impacts Summ	ary						
1a. Which sections	were completed be	low for your project	(check all that	apply):			
U Wetlands	⊠ s	treams - tributaries	□в	uffers			
Open Water	Impacts Summary a. Which sections were completed below for your project (check all that apply): □ Open Waters □ Pond Construction Wetland Impacts there are wetland impacts proposed on the site, then complete this question for each wetland area impacted. a. 2b. 2c. Yead impact Type of impact Type of wetland Impact number - are wetland impacts proposed on the site, then complete this question for each wetland area impacted. Area of impact a. 2b. 2c. 2d. 2e. Type of impact Type of wetland Forested Corps - 404, 10 Area of impact (acres) 10/10 P □ T □ Yes Corps						
2. Wetland Impac	ts						
	<u> </u>	1		1	l area impacte		
	2b.	2c.	2d.		diction	2f.	
	Type of impact	Type of wetland	Forested			Area of impact	
Permanent (P) or		(if known)		DWQ – non-40	4, other)	(acres)	
			☐ Yes				
W2 🗌 P 🗌 T			=				
W3 🗌 P 🗌 T							
			🗌 Yes	-			
W5 🗌 P 🗌 T			_				
					and impacts		
2h. Comments:				_9			
	s						
If there are perennia	l or intermittent stre	eam impacts (includi	ng temporary i	impacts) proposed on	the site, then	complete this	
За.	3b.	3c.	3d.	3e.	3f.		
	Type of impact	Stream name			•		
						(iiiieai ieei)	
					(feet)		
				,			
S1 🗌 P 🖾 T		Clark Creek			20		
	Existing Bone					((()))	
52 <u>P</u> P <u>I</u> I							
S3 🗌 P 🗌 T							
1a. Which sections were completed below for your project (check all that apply): Wetlands Streams - tributaries Buffers Open Waters Pond Construction Pond Construction 24. Ze. Ze. Wetland Impacts Type of impact Type of impact Type of jurisdiction Area of impact Permanent (P) or Temporary (T) Type of impact Type of wetland (if known) Forested DWQ - non-404, other) Area of impact (acres) W1 D P T No DWQ DWQ (acres) (acres) W3 D P T No DWQ DWQ (acres) (acres) W4 D P T Yes Corps DWQ (acres) (acres) W4 D P T Yes Corps DWQ (acres) (
			3h. Tot a	al stream and tributa	ary impacts	(<0.01) acre of temporary	
31. Comments:							

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.		4b.	4c.				4d.		4e.	
Open v		Name of		-	<i>.</i>					
impact number – waterbody Permanent (P) or (if applicable)					e of impact		Waterbody	/ type	Area	of impact (acres)
Tempora		(ii applicable)								
· · · · ·	» [] Т									
02 🗌 F	Р□Т									
O3 🗌 F	р 🗌 Т									
04 🗌 F	р 🗌 Т									
						4f. T	otal open wate	r impacts		
4g. Comm	nents:									
5. Pond or Lake Construction										
If pond or lake construction proposed, then complete the chart below.										
5a. 5b. 5c.							5d.			5e.
W			We	Vetland Impacts (acres)			Stream Impacts (feet)			Upland (acres)
Pond ID		oposed use or				Excav			Exc	
number purpose of pond		Flooded		Filled	ated	Flooded	Filled avat ed		Flooded	
P1										
P2										
	•	5f. Total								
5g. Comm	nents:									
5h. Is a da	am high h	azard permit require	d?		,			10		
				🗆 Y	es	🛛 No	lf yes, permit	ID no:		
5i. Expec	cted pond	l surface area (acres	s):							
5j. Size o	of pond w	atershed (acres):								
5k. Metho	od of con	struction:								

6. Buffer Impacts	(for DWQ)									
	f project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you MUST fill out Section D of this form.									
6a.			□ Neuse	Tar-Pamlico	Other:					
Project is in which protected basin?										
6b. Buffer impact	6c.	6d.	6e.	6f.	6g.					
number – Permanent (P) or Temporary (T)	Reason for impact	Stream name	Buffer mitigation required?	Zone 1 impact (square feet)	Zone 2 impact (square feet)					
B1 🗌 P 🗌 T			☐ Yes ☐ No							
B2 🗌 P 🗌 T			☐ Yes ☐ No							
B3 🗌 P 🗌 T			☐ Yes ☐ No							
		6h. Total bu	ffer impacts							
6i. Comments:										

D.	Impact Justification and Mitigation							
1.	Avoidance and Minimization							
1a.	Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. -Promotion of sheet flow and infiltration with grassed shoulders. -No deck drains on bridge. -Removal of existing road fill under bridge will improve bridge conveyance and reduce bridge opening velocities.							
1b.	Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Best Management Practices and measures used on the project are an attempt to reduce the stormwater impacts to the receiving stream due to erosion and runoff. BMP's used on the job are primarily non-structural and consist of methods to attenuate and disperse stormwater before entering the receiving waters. Also, an offsite detour will be used for the project.							
2.	Compensatory Mitigation for Impacts to Waters of the U	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?	🗌 Yes 🛛 No)					
2b.	If yes, mitigation is required by (check all that apply):		orps					
2c.	If yes, which mitigation option will be used for this project?	 Mitigation bank Payment to in-lieu fee program Permittee Responsible Mitigation 						
3.	Complete if Using a Mitigation Bank							
За.	Name of Mitigation Bank: not applicable							
3b.	Credits Purchased (attach receipt and letter)	Туре	Quantity					
3c.	Comments:							
4.	Complete if Making a Payment to In-lieu Fee Program							
4a.	Approval letter from in-lieu fee program is attached.	Yes						
4b.	Stream mitigation requested:	0 linear feet						
4c.	If using stream mitigation, stream temperature:	warm co	ool 🗌 cold					
4d.	Buffer mitigation requested (DWQ only):	n/a square feet						
4e.	Riparian wetland mitigation requested:	0 acres						
4f.	Non-riparian wetland mitigation requested:	0 acres						
4g.	Coastal (tidal) wetland mitigation requested:	0 acres						
4h.	Comments:							
5.	Complete if Using a Permittee Responsible Mitigation F	Plan						
5a.	If using a permittee responsible mitigation plan, provide a d	lescription of the propo	osed mitigation plan.					

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation? Image: Yes	
amount of mitigation required. 6c. 6d. 6e. Zone 6c. Total impact (square feet) Multiplier 6e. Zone 1 3 (2 for Catawba) 3 (2 for Catawba)	
ZoneReason for impact (square feet)Total impact (square feet)MultiplierRequired mitigation (square feet)Zone 13 (2 for Catawba)	:he
Zone 2 1.5	
6f. Total buffer mitigation required:	
 6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund). 6h. Comments: 	1

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)		
1. Diffuse Flow Plan	_	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	🗌 Yes	🖾 No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments:	🗌 Yes	🖾 No
2. Stormwater Management Plan	1	
2a. What is the overall percent imperviousness of this project?	n/a	
2b. Does this project require a Stormwater Management Plan?	🛛 Yes	🗌 No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:		
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, na See attached Stormwater Management Plan.	rrative descriptic	on of the plan:
2e. Who will be responsible for the review of the Stormwater Management Plan?		ocal Government nwater Program Jnit
3. Certified Local Government Stormwater Review		
3a. In which local government's jurisdiction is this project?	not applicable	
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	Phase II NSW USMP Water Supp Other:	oly Watershed
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	🗌 No
4. DWQ Stormwater Program Review		
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	Coastal co HQW ORW Session Li Other:	unties aw 2006-246
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	🗌 Yes	No N/A
5. DWQ 401 Unit Stormwater Review	1	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	🗌 Yes	🗌 No N/A
5b. Have all of the 401 Unit submittal requirements been met?	🗌 Yes	🗌 No N/A

F.	Supplementary Information		
1.	Environmental Documentation (DWQ Requirement)		
1a.	Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	🛛 Yes	🗌 No
1b.	If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	🛛 Yes	🗌 No
1c.	If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)	⊠ Yes	🗌 No
	Comments: PCE Signed February 2012.		
2.	Violations (DWQ Requirement)		
2a.	Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	☐ Yes	🖾 No
2b.	Is this an after-the-fact permit application?	☐ Yes	🛛 No
2c.	If you answered "yes" to one or both of the above questions, provide an explanation of	of the violation(s):	
3.	Cumulative Impacts (DWQ Requirement)		
За.	Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes	🖾 No
3b.	If you answered "yes" to the above, submit a qualitative or quantitative cumulative imp most recent DWQ policy. If you answered "no," provide a short narrative description.	bact analysis in a	ccordance with the
	Due to the minimal transportation impact resulting from this bridge replacement, this pland uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects st		
4.	Sewage Disposal (DWQ Requirement)		
4a.	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge the proposed project, or available capacity of the subject facility.	arge) of wastewat	er generated from
	not applicable		

5.	Endangered Species and Designate	ed Critical Habitat (Corps Requiremen	t)							
5a.	Will this project occur in or near an ar habitat?	ea with federally protected species or	⊠ Yes	🗌 No						
5b.	Have you checked with the USFWS c impacts?	oncerning Endangered Species Act	☐ Yes	🛛 No						
5c.	If yes, indicate the USFWS Field Offic	e you have contacted.	☐ Raleigh ☐ Asheville							
5d.	What data sources did you use to det Habitat?	ermine whether your site would impact E	ndangered Species or	Designated Critical						
	on January18, 2013. Field surveys for	awba County. One species, Schweinitz's r dwarf- flowered heartleaf and Schweini . No individuals were found. This projec sted for Catawba County.	tz's sunflower were co	nducted by NCDOT						
6.	6. Essential Fish Habitat (Corps Requirement)									
6a.	6a. Will this project occur in or near an area designated as essential fish habitat?									
6b.	6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat?									
7.	Historic or Prehistoric Cultural Res	ources (Corps Requirement)	• • • • • • • • • • • • • • • • • • •							
7a.	 7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? 									
7b.	What data sources did you use to dete	ermine whether your site would impact hi	storic or archeological	resources?						
8. F	lood Zone Designation (Corps Requ	lirement)								
8a.	Will this project occur in a FEMA-desig	nated 100-year floodplain?	☐ Yes	🖾 No						
8b.	If yes, explain how project meets FEM	A requirements: NCDOT Hydraulics coor	dination with FEMA							
8c.	What source(s) did you use to make th	e floodplain determination? FEMA Maps		<u></u>						
	Applicant/Agent's Printed Name	Applicant/Agent's Sig (Agent's signature is valid only if an authorizat is provided.)		5.24.13 Date						

STORMWATER MANAGEMENT PLAN

B-5101, WBS No. 42223.1.1 CATAWBA COUNTY Hydraulics Project Manager: Stephen R. Morgan, PE Date: 02/20/2013

ROADWAY DESCRIPTION

The project involves the replacement of bridge number 83 over Clark Creek on SR 1149 (Conover-Startown) in Catawba County. The overall length of the project is 0.128 mile. The project will replace an existing 106' long three-span timber and steel bridge with a three-span concrete cored slab bridge having a total length of 130 feet length, 24'' Cored Slab. An off-site detour will be required.

ENVIRONMENTAL DESCRIPTION

The project is located in the Catawba River Basin. The proposed bridge is over Clark Creek which is classified as C, NSW, and on 303(d) list. The surrounding land consists primarily of agriculture, interspersed with residential development along roadways and forestland along stream corridors.

PROJECT IMPACTS

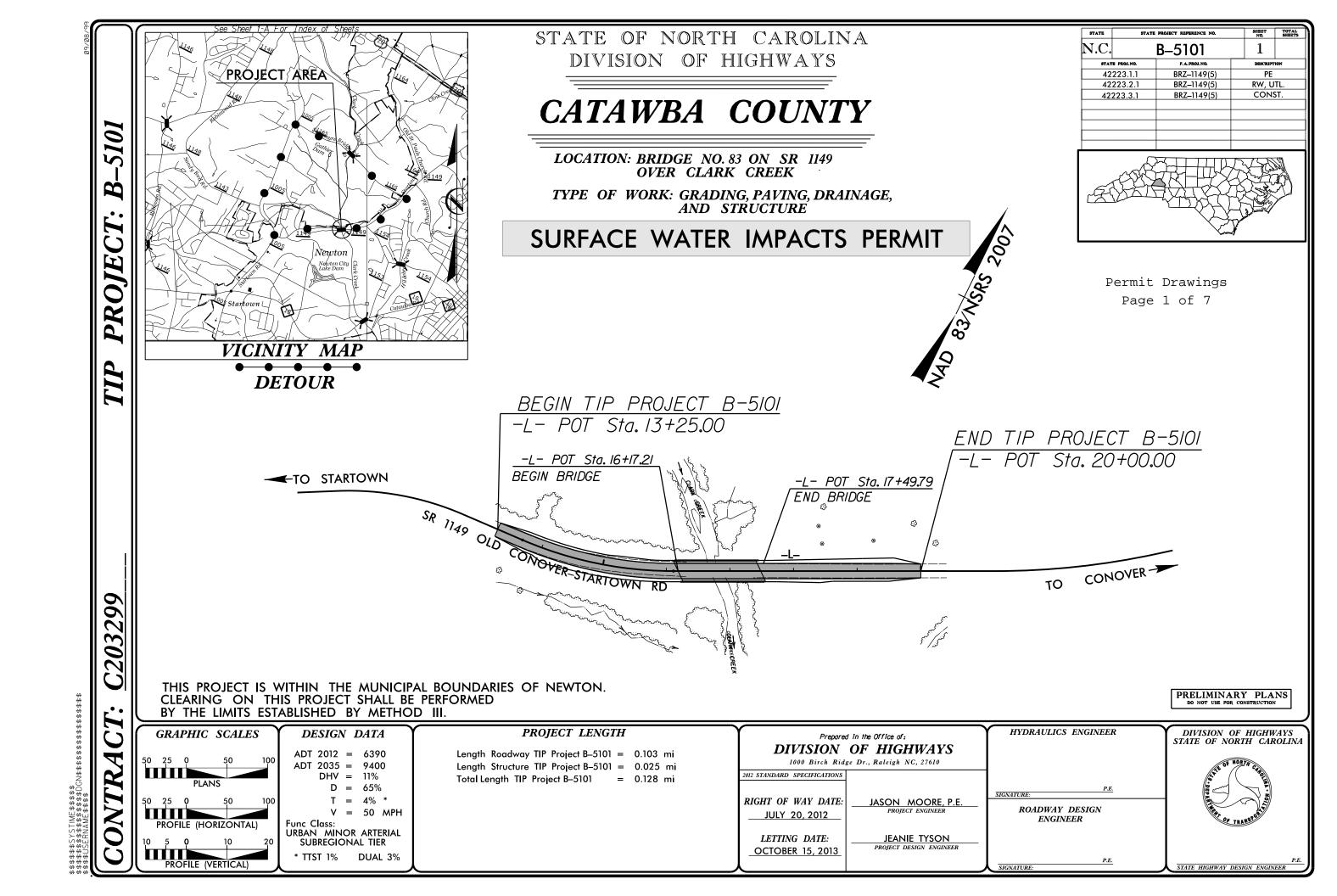
Impacts resulting from the job include: 0.0011 acre of surface water impacts due to removal of an interior bent and 56.5 feet of existing permanent channel impacts due to bank stabilization.

BEST MANAGEMENT PRACTICES AND MAJOR STRUCTURES

Best Management Practices (BMPs) and measures used on the project are an attempt to reduce the stormwater impacts to the receiving stream due to erosion and runoff. BMPs used on the job are primarily non-structural and consist of methods to attenuate and disperse stormwater before entering the receiving waters. Bridge deck drainage will not be allowed to directly discharge into the water. There is no direct discharge into the receiving water.

BRIDGE

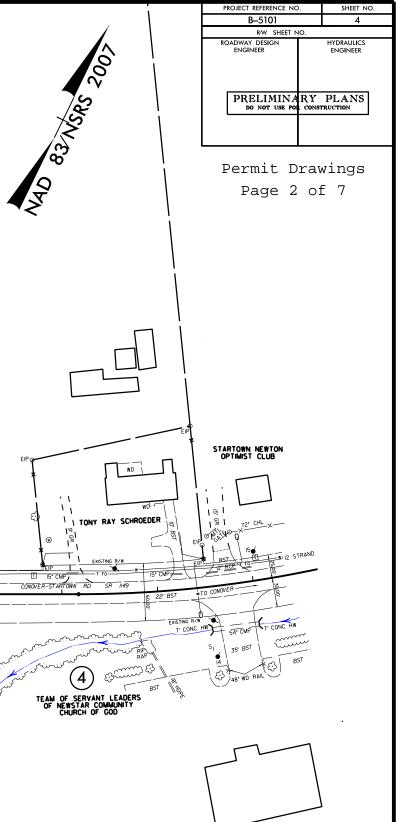
-L- STA 18+50 Replace existing bridge over Clark Creek.



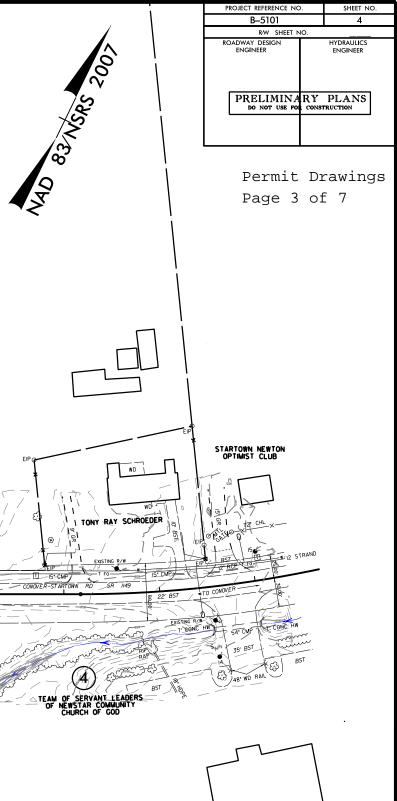
SURFACE WATER IMPACTS PERMIT <u>BEGIN TIP PROJECT B-5101</u> /-L- POT Sta. 13+25.00 HARVEY L FOX AND KATHERINE F LEATHERMAN END TIP PROJECT B-5101 -L- POT Sta. 20+00.00 2 GARY ALBERT SCHROEDER 15+00 BSTX 63 ģ OLD ABUMENT TO BE REMOVE εĴ CLASS II RIP RAP £3 MICHEAL V TELESCO AND WIFE KATRIN M _____ F % F F F F F ____¥____ OLD ABUMENT TO BE REM JS ELECT UNIN N \Box 300 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

\$\$\$\$\$\$\$\$YSTIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$00N\$\$\$\$\$\$\$\$\$\$ \$\$\$\$!!SFRNAMF\$\$\$\$

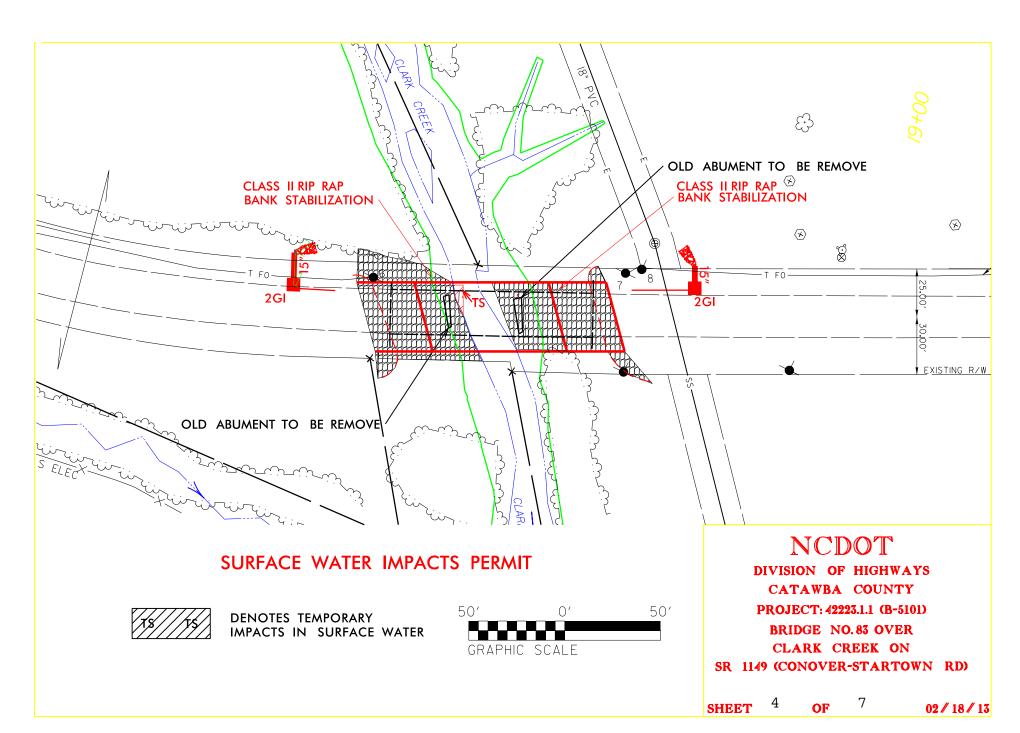
\$\$\$\$YSTIME\$\$\$\$

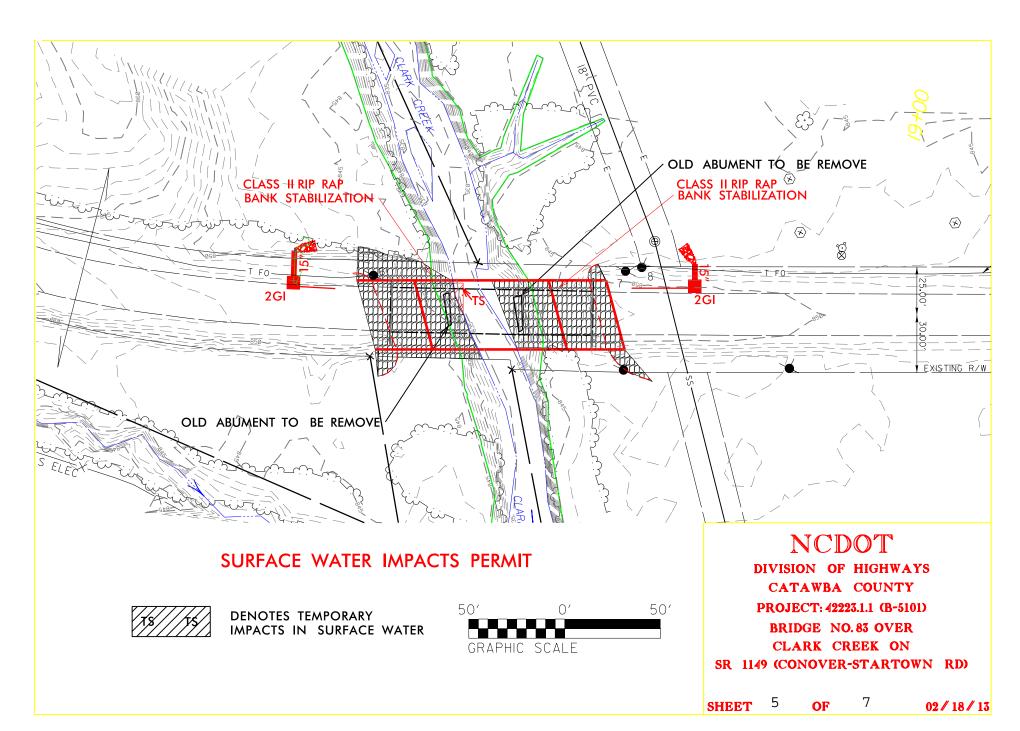


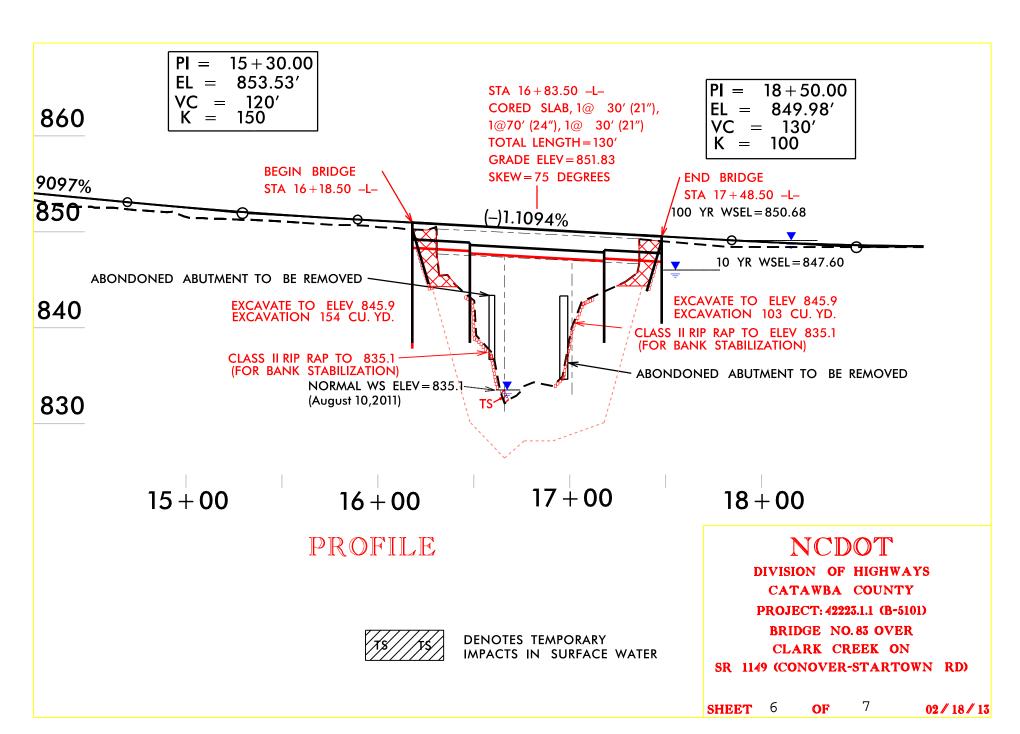
SURFACE WATER IMPACTS PERMIT <u>BEGIN TIP PROJECT B-5101</u> /-L- POT Sta. 13+25.00 HARVEY L FOX <u>END TIP PROJECT B-5101</u> -L- POT Sta. 20+00.00 2 GARY ALBERT SCHROEDER BST OLD ABUMENT TO BE REMOVE CLASS II RIP RAP BANK STABILIZATION MICHEAL V TELESCO F 🖉 F N \Box 300 DENOTES TEMPORARY IMPACTS IN SURFACE WATER \$\$\$\$\$\$\$\$YSTIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$00 \$\$\$\$!IGFRNAME\$\$\$



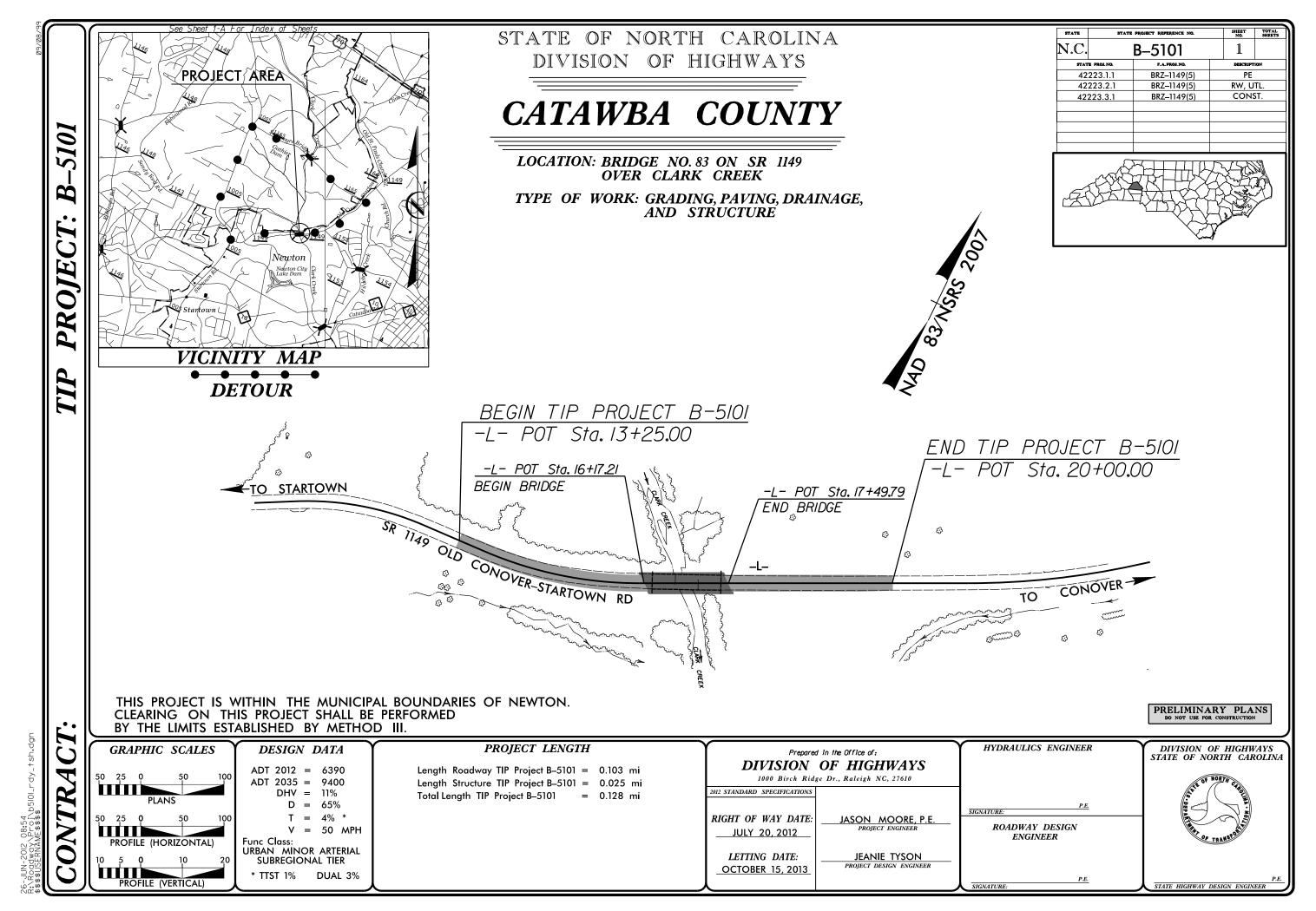








					W		RMIT IMPA					
	WETLAND IMPACTS									SURFACE WATER IMPACTS		
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	16+66	Pier Removal	(00)	(0.0)	(00)	(00)	(0.0)	(00)	<0.01	(19)	15	()
TOTALS	:								<0.01	0	15	
									NC D	EPARTMENT O	F TRANSPO	RTATION
NC DEPARTMENT OF TRANSPORTATIO DIVISION OF HIGHWAYS CATAWBA COUNTY WBS - 42223.1.1 (B-5101)									S			



_

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBO

CSX TRANSPORTATION

⊙ MILEPOST 35

SWITCH

 \triangle

_ _ _ <u>C</u> _ _ _ ___£___ WCR _____T___ _____0___0____0 _____

6 6 6 6

_ ____

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	⊖ EIP
Property Corner ————	
Property Monument ————	ECM
Parcel/Sequence Number	(23)
Existing Fence Line	
Proposed Woven Wire Fence	0
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	- — — — WLB — — — -
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	ЕРВ
BUILDINGS AND OTHER CULTU	RE:
Gas Pump Vent or U/G Tank Cap	0
Sign	S
Well	Ŷ
Small Mine	*
Foundation	
Area Outline	
Cemetery	1
Building —	
School	
Church	
Church Dam	
Chorch	
HYDROLOGY:	
Dam	

1 /	EC.		
Parcel/Sequence Number		Proposed Right of Way Line	<u> </u>
Existing Fence Line	_xxx-	Proposed Right of Way Line with	
Proposed Woven Wire Fence		Iron Pin and Cap Marker	w –
Proposed Chain Link Fence		Proposed Right of Way Line with Concrete or Granite Marker	
Proposed Barbed Wire Fence		Existing Control of Access	(<u>Ĉ</u>)
Existing Wetland Boundary	— — — — WLB — — — —	Proposed Control of Access	
Proposed Wetland Boundary	WLB	Existing Easement Line	
Existing Endangered Animal Boundary	EAB	Proposed Temporary Construction Easement -	F
Existing Endangered Plant Boundary	ЕРВ	Proposed Temporary Drainage Easement —	
BUILDINGS AND OTHER CULTU	RE:	Proposed Permanent Drainage Easement —	
Gas Pump Vent or U/G Tank Cap	0	Proposed Permanent Drainage / Utility Easement	DUE
Sign	⊙ s	Proposed Permanent Utility Easement ———	PUE
Well	Ŷ	Proposed Temporary Utility Easement	TUE
Small Mine	☆	Proposed Aerial Utility Easement	AUE
Foundation ———		Proposed Permanent Easement with	
Area Outline		Iron Pin and Cap Marker	۲
Cemetery		ROADS AND RELATED FEATURE	<i>S:</i>
Building ———		Existing Edge of Pavement	
School ———	L .	Existing Curb	
Church	طب	Proposed Slope Stakes Cut	<u>c</u>
Dam		Proposed Slope Stakes Fill	<u>F</u>
HYDROLOGY:		Proposed Wheel Chair Ramp	WCR
Stream or Body of Water		Existing Metal Guardrail ————	T
Hydro, Pool or Reservoir		Proposed Guardrail ————	<u> </u>
Jurisdictional Stream		Existing Cable Guiderail ————	
Buffer Zone 1		Proposed Cable Guiderail	
Buffer Zone 2		Equality Symbol —————————	\odot
Flow Arrow		Pavement Removal ————	$\times\!\!\times\!\!\times\!\!\times\!\!\times$
Disappearing Stream		VEGETATION:	
Spring Ø		Single Tree	යි
Wetland		Single Shrub	٥
Proposed Lateral, Tail, Head Ditch ————	$\rightarrow\rightarrow\rightarrow$	Hedge	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
False Sump		Woods Line	<u></u>
-	•	Orchard	ස ස ස
		Vineyard	Vineyard

RAILROADS:

Standard Gauge

RR Dismantled — RIGHT OF WAY:

Baseline Control Point

Existing Right of Way Line

Existing Right of Way Marker -----

Switch — RR Abandoned

RR Signal Milepost —

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

EXISTING STRUCTURES:

UTILITIES:

POWER:	
Existing Power Pole	•
Proposed Power Pole	6
Existing Joint Use Pole	_∳_
Proposed Joint Use Pole	-6-
Power Manhole	P
Power Line Tower	\boxtimes
Power Transformer	\bowtie
U/G Power Cable Hand Hole	
H-Frame Pole	••
Recorded U/G Power Line	P
Designated U/G Power Line (S.U.E.*)	P

TELEPHONE:

Existing Telephone Pole	-•-
Proposed Telephone Pole	-0-
Telephone Manhole	D
Telephone Booth	3
Telephone Pedestal	
Telephone Cell Tower	, I ,
U/G Telephone Cable Hand Hole	HH
Recorded U/G Telephone Cable	T
Designated U/G Telephone Cable (S.U.E.*) $-$	T
Recorded U/G Telephone Conduit	TC
Designated U/G Telephone Conduit (S.U.E.*)-	
Recorded U/G Fiber Optics Cable	T F0
Designated U/G Fiber Optics Cable (S.U.E.*)-	— — — — T FO— —

	project reference no. B-5101	SH
_S		
WATER:		
Water Manhole	@	
Water Meter		
Water Valve		
Water Hydrant		
Recorded U/G Water Line		
Designated U/G Water Line (S.U.E.*)-		
Above Ground Water Line (0.0.1.)		
T) /		
TV: TV Satellite Dish ————	🛛	
TV Pedestal		
TV Tower —)
U/G TV Cable Hand Hole	H _н	
Recorded U/G TV Cable		
Designated U/G TV Cable (S.U.E.*)—		
Recorded U/G Fiber Optic Cable		
Designated U/G Fiber Optic Cable (S.		
5	,	
GAS: Gas Valve	^	
Gas Meter	\forall	
Designated U/G Gas Line (S.U.E.*)-		
Above Ground Gas Line		
SANITARY SEWER:		
Sanitary Sewer Manhole		
Sanitary Sewer Cleanout		
U/G Sanitary Sewer Line	-	
Above Ground Sanitary Sewer		
, Recorded SS Forced Main Line	-	
Designated SS Forced Main Line (S.U	J.E.*) — — — —	
MISCELLANEOUS:		
Utility Pole		
Utility Pole Utility Pole with Base		
Utility Pole with Base	·	
Utility Pole with Base Utility Located Object	C	
Utility Pole with Base Utility Located Object Utility Traffic Signal Box	©	
Utility Pole with Base Utility Located Object Utility Traffic Signal Box Utility Unknown U/G Line		
Utility Pole with Base Utility Located Object Utility Traffic Signal Box Utility Unknown U/G Line U/G Tank; Water, Gas, Oil		
Utility Pole with Base Utility Located Object Utility Traffic Signal Box Utility Unknown U/G Line	Ο	

End of Information —

E.O.I.

