



PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

March 1, 2016

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

ATTN: Mr. John Thomas, Jr.
NCDOT Division 9 Project Coordinator

SUBJECT: **Documentation to Convert from Application for Section 404 Individual Permit and Section 401 Individual Water Quality Certification to Application for Section 404 Nationwide Permit No. 14 and Section 401 General Water Quality Certification No. 3886** for the proposed Village Point Drive project on new location from existing Village Point Drive to Towncenter Drive in the Village of Clemmons in Forsyth County. NCDOT Division 9; TIP Project No. U-5551.

USACE Action ID SAW-2011-00800; NCDWR Project No. 11-0359v2.

Debit \$570.00 from WBS Element No. 46310.1.1.

REFERENCE: U-5551, Application for Section 404 Individual Permit and Section 401 Individual Water Quality Certification, dated November 17, 2015.

Dear Sir:

Per your request to permit impacts associated with this project under a Section 401 Nationwide Permit No. 14 rather than an Individual Permit, I have enclosed a completed Pre-Construction Notification (PCN) for the project to replace the previously-submitted Individual Permit application.

Additionally, per a request from Sue Homewood (N.C. Division of Water Resources) in an email dated December 18, 2015, the permit drawing packet was modified to add the temporary dewatering/bypass channel design associated with each of the two culvert installations (one at Permit Site 1, one at Permit Site 2); additionally, dewatering details were added to the packet. As a result of these inclusions, some of the jurisdictional impacts have been adjusted to correspond with the revised design. Specifically, mechanized clearing impacts at Site 2 have decreased from 0.04 ac. to 0.01 ac. and temporary fill in wetlands at that site have increased from 0.0 ac. to 0.05 ac.



State of North Carolina | Department of Transportation | PDEA – Natural Environment Section
1020 Birch Ridge Drive, 27610 | 1598 Mail Service Center | Raleigh, NC 27699-1598
919-707-6000 (T) 919-212-5785 (F)

Enclosed please find the requested PCN, as well as the revised permit drawings. Also enclosed is an email from Kelway Howard (Stimmel Associates, PA) to Ms. Homewood, dated February 18, 2016, detailing the decision to use the bypass channel method rather than the full-time bypass pumping method for dewatering purposes. Additionally, the construction plans for Site 2 have been included, which contain construction notes and revegetation specifications related to the restoration of the new temporary wetland impacts at that site.

A copy of this letter and its attachments will be posted on the NCDOT Website at <https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx>, under *Quick Links > Permit Applications*. Thank you for your assistance with this project. If you have any questions or need additional information, please contact Jim Mason at either jsmason@ncdot.gov or (919) 707-6136.

Sincerely,



Br

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

cc: NCDOT Permit Application Standard Distribution List
Sue Homewood, N.C. Division of Water Resources
Wright Archer Sr., District Engineer, District 2
Stephanie Braquet, Environmental Specialist, Division 9



Office Use Only:
 Corps action ID no. _____
 DWQ project no. _____
 Form Version 1.4 January 2009

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 14 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input type="checkbox"/> Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Project Information

2a. Name of project:	Village Point Drive project on new location from existing Village Point Drive to Towncenter Drive in the Village of Clemmons
2b. County:	Forsyth
2c. Nearest municipality / town:	Clemmons
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	U-5551

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation - Division 9
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	375 Silas Creek Parkway
3e. City, state, zip:	Winston-Salem, NC 28621
3f. Telephone no.:	(919) 707-6136
3g. Fax no.:	(919) 212-5785
3h. Email address:	jsmason@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input checked="" type="checkbox"/> Other, specify: co-applicant
4b. Name:	Village of Clemmons
4c. Business name (if applicable):	
4d. Street address:	3715 Clemmons Rd
4e. City, state, zip:	Clemmons, NC 27013
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
5. Agent/Consultant Information (if applicable)	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 36.0353 (DD.DDDDDD) Longitude: - 80.3905 (-DD.DDDDDD)
1c. Property size:	33 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Johnson Creek
2b. Water Quality Classification of nearest receiving water:	WS-IV
2c. River basin:	Yadkin-Pee Dee
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: A majority of the proposed project will be on new location; however, much of the new location area was previously cleared. Therefore, the site primarily consists of either patches of forested land or maintained/disturbed land. Land use within the vicinity includes Forested Land, Agriculture, Commercial, Industrial, and Residential.	
3b. List the total estimated acreage of all existing wetlands on the property: 1.06 acres	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 2,061 linear feet	
3d. Explain the purpose of the proposed project: The purpose and need of the project is to improve access to a 203-acre, comprehensively planned area in the Village of Clemmons for economic development.	
3e. Describe the overall project in detail, including the type of equipment to be used: NCDOT and the Village of Clemmons propose to construct a two-lane road with a center turn lane on new location in the Village of Clemmons, Forsyth County. The road will extend the existing Village Point Drive and connect to Towncenter Drive. This road is part of the Village of Clemmons Small Area Plan, which can be found on their website (http://www.clemmons.org). One year after construction, maintenance of the road will be transferred to the Village of Clemmons. NCDOT and the Village of Clemmons request that the USACE and NCDWR include a special condition in the permits stating that the Village of Clemmons will be responsible for the 404 and 401 permits after maintenance responsibilities are transferred. Standard road building equipment, such as trucks, dozers, and cranes 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: USACE Action ID SAW-2011-00800, dated 9/23/15; NCDWR Determination, dated 5/26/15	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Principal Investigator: Jim Mason	Agency/Consultant Company: NCDOT Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. 9/23/15; 5/26/15	

5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<p>5b. If yes, explain in detail according to "help file" instructions.</p> <p>A portion of Village Point Drive was previously permitted by Novant Health in 2011. The PCN for that permit was dated April 12, 2011. The USACE Action Id No. was 2011-00800 and the DWR No. was 2011-0359. The 2011 application had 2 crossings (referred to as Permit Sites 1 and 2). Crossing 1 (Permit Site 1) was not constructed as part of the 2011 application, but it is now included as part of the current application process, also as Permit Site 1 (along with a new Permit Site 2).</p> <p>However, the plans for Crossing 1 (Permit Site 1) have changed since the 2011 application. Revised plans, including these revisions to Site 1, were recently provided to agencies on November 17, 2015 as part of an Individual Permit (IP) application for the subject project. Since the submission of the IP application, however, it was determined by the agencies that a NWP No. 14 would be more appropriate for this project. Additionally, revisions to the permit drawings and impacts have occurred since the IP application was submitted. A revised version of the IP application permit drawings accompanies this PCN, which will replace the Novemer 2015 IP application.</p>	
6. Future Project Plans	
6a. Is this a phased project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>6b. If yes, explain.</p> <p>See description in 5b above.</p>	

C. Proposed Impacts Inventory						
1. Impacts Summary						
1a. Which sections were completed below for your project (check all that apply):						
<input checked="" type="checkbox"/> Wetlands		<input checked="" type="checkbox"/> Streams - tributaries		<input type="checkbox"/> Buffers		
<input type="checkbox"/> Open Waters		<input type="checkbox"/> Pond Construction				
2. Wetland Impacts						
If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.						
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction	2f. Area of impact (acres)	
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Headwater Wetland	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Excavation	Headwater Wetland	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Mechanized Clearing	Headwater Wetland	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Headwater Wetland	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.32	
Site 2 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Temp. Fill	Headwater Wetland	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.05	
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Mechanized Clearing	Headwater Wetland	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
2g. Total wetland impacts					0.35 ac Perm. 0.05 ac Temp.	
2h. Comments: Site 1 impacts occur in Wetland WC; Site 2 impacts occur in Wetland WA. Wetland identifiers reference the jurisdictional determination identifiers. Rounded total is based on the sum of the actual impacts.						
Temporary impacts at Site 2 are associated with the proposed temporary bypass channel being employed to install the culvert at this site. Please see the attached construction plans for information regarding the restoration of these impacts.						
3. Stream Impacts						
If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Perm. Fill (Culvert)	UT of Johnson Creek (SC)	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	3	181
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Temp. Impacts	UT of Johnson Creek (SC)	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	3	15
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Perm. Fill (Culvert)	UT of Johnson Creek (SA/SA Braid)	<input type="checkbox"/> PER <input checked="" type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	2-5	210
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Perm. Fill (Culvert)	UT of Johnson Creek (SA/SA Braid)	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	2-5	46
Site 2 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Temp. Impacts	UT of Johnson Creek (SA/SA Braid)	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	2-5	50

	3h. Total stream and tributary impacts	437 Perm. 65 Temp.						
3i. Comments: Stream identifiers reference the jurisdictional determination identifiers. Impacts to SA (not SA Braid) are reported as it's the main channel in the braided system.								
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. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)				
O1 <input type="checkbox"/> P <input type="checkbox"/> T								
O2 <input type="checkbox"/> P <input type="checkbox"/> T								
O3 <input type="checkbox"/> P <input type="checkbox"/> T								
O4 <input type="checkbox"/> P <input type="checkbox"/> T								
4f. Total open water impacts				0 Permanent 0 Temporary				
4g. Comments:								
5. Pond or Lake Construction								
If pond or lake construction proposed, then complete the chart below.								
5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flo ode d	Filled	Excavated	Flooded
P1								
P2								
5f. Total								
5g. Comments:								
5h. Is a dam high hazard permit required?				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, permit ID no:				
5i. Expected pond surface area (acres):								
5j. Size of pond watershed (acres):								
5k. Method of construction:								

6. Buffer Impacts (for DWQ)

If 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. Project is in which protected basin?		<input type="checkbox"/> Neuse <input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Other: <input type="checkbox"/> Catawba <input type="checkbox"/> Randleman			
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer 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.		
Avoidance:		
<ul style="list-style-type: none"> Village Point Drive generally runs northeast to southwest from Jessie Lane to Harper Road. There are four streams in the vicinity of Village Point Drive. One of the four streams generally flows northeast to the southwest paralleling Village Point Drive. Village Point Drive alignment was set just to the west of this parallel stream to avoid impacts. The remaining three streams generally flow northwest to southeast, perpendicular to the roadway alignment, and impacts could not be avoided. 		
Minimization:		
<ul style="list-style-type: none"> Headwalls are utilized on each culvert to minimize the length of the impact. Plunge pools or minimum length energy dissipaters, as appropriate based on the velocities and flows, were used at each culvert. The roadway embankments were steepened to a 2:1 ratio over the stream crossings to minimize the impacts. 		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.		
<ul style="list-style-type: none"> NCDOT's Best Management Practices (BMPs) for the Protection of Surface Waters will be enforced. NCDOT's BMPs for Construction and Maintenance Activities will be utilized. 		
2. 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input checked="" type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input checked="" type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	<input type="checkbox"/> Yes	
4b. Stream mitigation requested:	314 lin. ft. @ 2:1 + 123 lin. ft. @ 1:1 = 751 linear feet	
4c. If using stream mitigation, stream temperature:	<input checked="" type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	0.35 ac. at 2:1 = 0.70 acres	
4f. Non-riparian wetland mitigation requested:	0 acres	
4g. Coastal (tidal) wetland mitigation requested:	0 acres	

4h. Comments: In the initial 2011 application by Novant Health, it was agreed that the 123 linear ft. of permanent stream impacts at that application's Permit Site 1 (also known as Permit Site 1 in the current application) would be mitigated for at a 1:1 ratio. However, that permit site did not get constructed as part of the 2011 project. Now, per USACE, mitigation for impacts to the stream at this site will be required at a 2:1 ratio. Since permanent impacts at Permit Site 1 increased by 58 linear ft. (from 123 linear ft. in the 2011 application to 181 linear ft. in the current application), NCDOT proposes to mitigate for the original 123 linear ft. (that was permitted in the 2011 application, but never impacted) at the previously-determined 1:1 mitigation ratio and mitigate for the newly added 58 linear ft. of stream impacts at the new 2:1 ratio. The 0.02 acres of wetland impacts at Permit Site 1 will be mitigated for at a 2:1 ratio. Documentation of payment to American Wetlands for previously-permitted Site 1 from the 2011 application was submitted to both agencies with the November 2015 IP application.

At Permit Site 2, 256 linear ft. of permanent stream impacts will be mitigated for at a 2:1 ratio. Also at Permit Site 2, 0.33 acres of wetland impacts will be mitigated for at a 2:1 ratio.

Mitigation will be acquired from the Division of Mitigation Services (DMS) (the mitigation acceptance letter was also recently provided to both agencies with the November 2015 IP application).

5. Complete if Using a Permittee Responsible Mitigation Plan

5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation? Yes No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.


Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
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:

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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If not, explain why. Comments:	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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, narrative description of the plan: Please see previously-submitted permit application packet, dated November 17, 2015.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" type="checkbox"/> DWQ 401 Unit
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):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.) Comments:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. The project may alter traffic capacity or travel patterns, reduce travel time, affect access to and exposure to properties in the area, and open areas for development or redevelopment. Due to the potential transportation impact-causing activities, this project may influence nearby land uses or stimulate growth. Therefore, a detailed indirect and cumulative effects screening is located in Appendix D of the previously-provided Combined Community Characteristics Report (provided with IP application).	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh	<input checked="" type="checkbox"/> Asheville
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NC Natural Heritage Program data, USFWS website. For the northern long-eared bat (<i>Myotis septentrionalis</i> ; NLEB), NCDOT determined that this project "may affect, but is not likely to adversely affect" this species. Based on this conclusion, we have currently committed to a tree clearing moratorium from May 15 - August 15 of any calendar year to avoid disturbing potential Northern long-eared bats in their summer roosting habitat. We submitted a concurrence request to USFWS dated July 20, 2015 and they concurred in a letter dated August 25, 2015 (copies of those letters have already been provided to the agencies with the IP application). However, with the enacting of the 4D Rules, effective February 16, 2016, the enforcement of the moratorium is subject to change.		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? The project was reviewed by the NCDOT-Human Environment Section for Cultural Resources. It was determined that the project would have no effect on either Historic Architecture or Archaeology. Copies of the 'No Survey Required' form for Historic Architecture, dated June 26, 2015, and the 'No Effects' form for Archaeology, dated August 20, 2015, have previously been provided to agencies with the IP applicaiton.		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: Coordination with FEMA; There are no streams within the project limits that are within Federal Emergency Management Agency (FEMA)-designated flood zones.		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
for <u>Richard W. Hancock, P.E.</u> Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	<u>3-1-2016</u> Date

Mason, James S

From: Kelway Howard <KHoward@stimmelpa.com>
Sent: Thursday, February 18, 2016 8:09 AM
To: Homewood, Sue
Cc: Moncus, Jeffrey W; Mason, James S; Archer Sr, Wright; Jay Guffey; Mike Gunnell (mgunnell@clemmons.org); Thomas, John T JR SAW
Subject: RE: Village Point Drive Revised Stream/Wetland Impact Exhibits
Importance: High

Sue, below is a detailed response relating to the temporary by-pass channel specifically why a by-pass channel was chosen over the alternate method of full time by-pass pumping.

The roadway footprint and culvert will require approximately 6-8 feet of undercutting to remove the soft alluvial soils before the roadway fill can be placed. The duration of the undercutting and culvert installation along with the stream base flow and the probability of reoccurring storm events is why I chose a gravity by-pass channel as I think it will provide better performance over full time pumping. The by-pass pumping option would require 24/7 supervision to ensure the pumps remained operational.

I will place the following notes on the construction plans

1. Clearing within the temporary wetland impact area shall be limited to cutting the woody vegetation at the ground surface. Do not remove the stumps.
2. Place a woven geotextile fabric over the existing ground.
3. Minimize driving mechanical equipment over the temporary wetland impact area to the maximum extent practicable.
4. Place fill and riprap as shown on the plans.
5. Remove the temporary fill, riprap and geotextile fabric after culvert is installed and backfilled.
6. Revegetate the cleared area with the special wetland seeding specification. (We will specify native grasses to stabilize the cleared area)

Let me know if you have any questions or require further clarification. Thanks

Kelway L. Howard III, P.E. Partner/ Senior Project Manager

336.723.1067 x1112



WETLAND PERMIT IMPACT SUMMARY

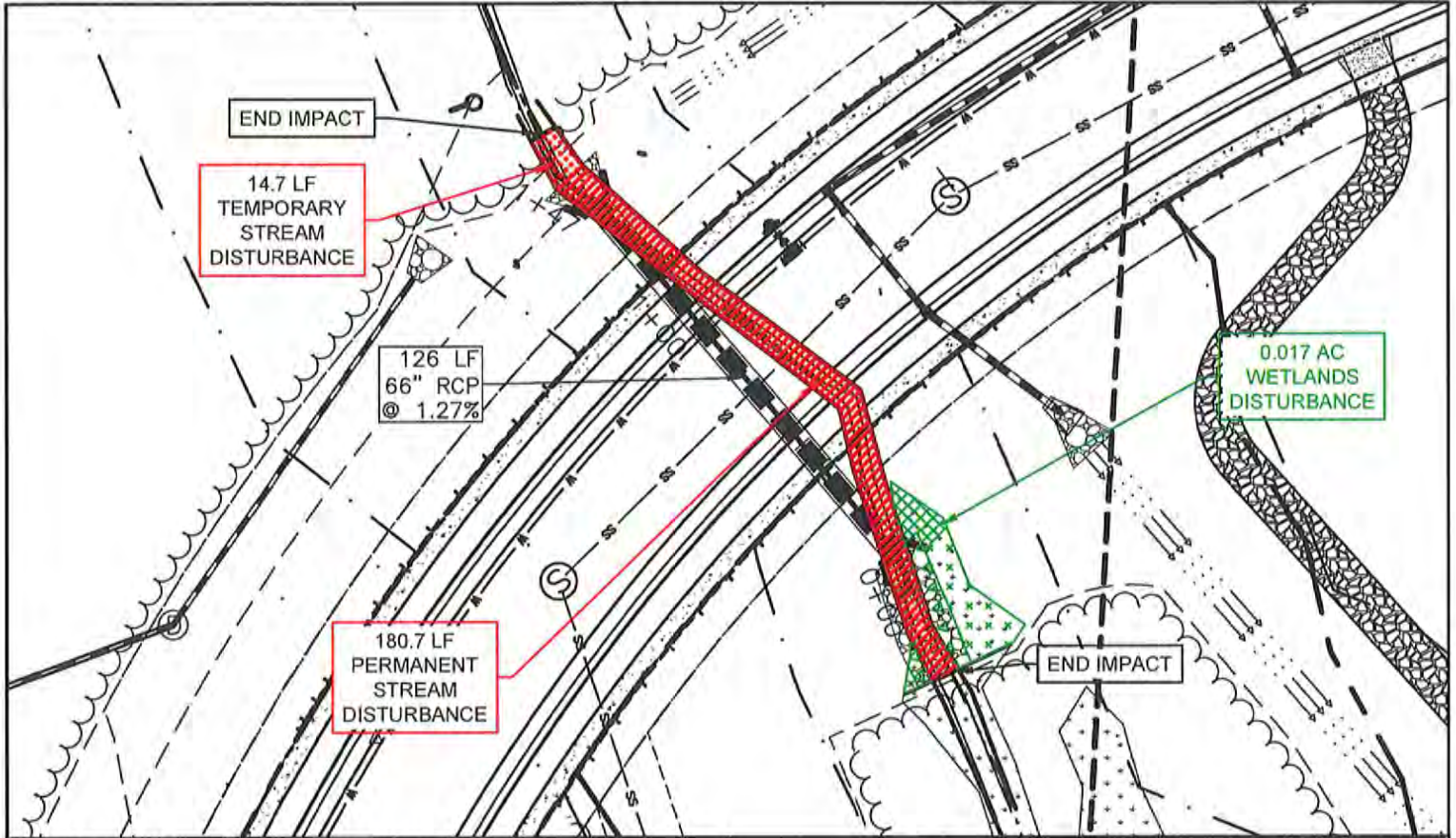
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
#1	34+13.82	66 -INCH RCP	<0.01	0.00	0.01	0.01	0.00	0.03	<0.01	181	15	0
#2	16+21.53 - 17+33.72	66-INCH RCP CULVERT	0.32	0.05	0.00	0.01	0.00	0.02 PER <0.01 INT	0.01 PER	46 PER 210 INT	50 PER	0
						TOTALS						
								0.05	0.01	227	65	0
								<0.01	0.00	210	0	0
TOTALS*:			0.32	0.05	0.01	0.02	0.00	0.05	0.01	437	65	0

*Rounded totals are sum of actual impacts

NOTES: Revised 1/14/16

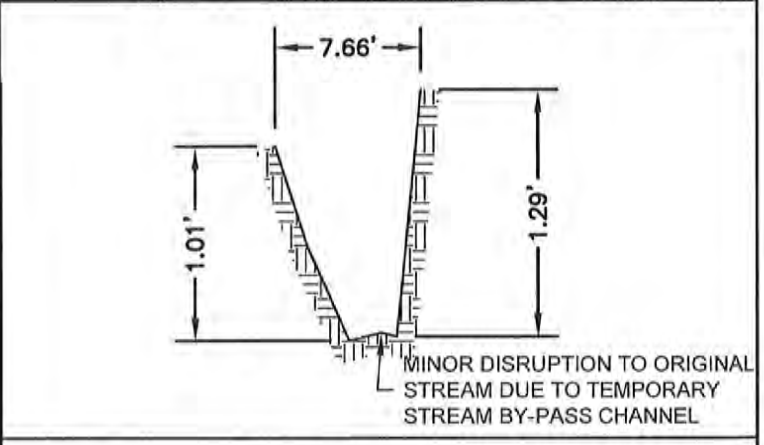
NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 1/14/2016
 Forsyth
 U-5551
 46310.1.1
 SHEET 1 OF 1

EXHIBIT



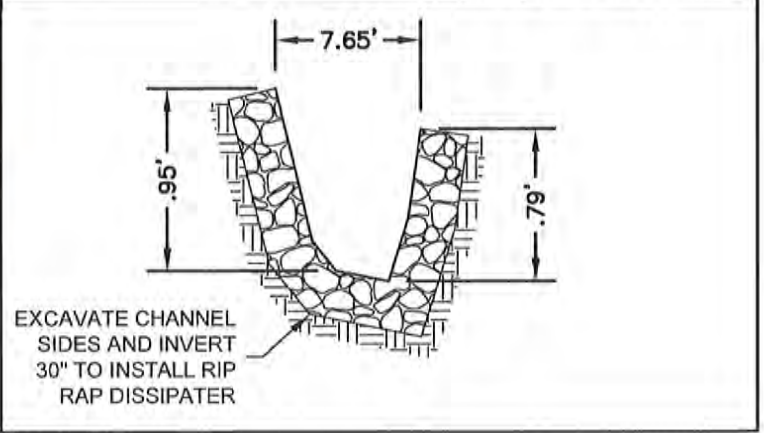
TOTAL STREAM IMPACT=195.4 LF	TOTAL WETLANDS IMPACT=0.017 AC
------------------------------	--------------------------------

PERMANENT IMPACTS TO SURFACE WATER (INTERMITTENT) 0.0 SF	
PERMANENT IMPACTS TO SURFACE WATER (PERENNIAL) 1293.1 SF	
TEMPORARY IMPACTS TO SURFACE WATER (PERENNIAL) 118.3 SF	



WETLAND: PERMANENT FILL 133.3 SF = 0.003 AC	
PERMANENT EXCAVATION 230.9 SF = 0.005 AC	
PERMANENT MECHANIZED CLEARING 387.0 SF = 0.009 AC	

NCBEES CERT. NO.: C-1347





601 N. TRADE STREET, SUITE 200
WINSTON-SALEM, NC 27101
www.stimmelpa.com 336.723.1067

LANDSCAPE ARCHITECTURE

CIVIL ENGINEERING

LAND PLANNING

date: 1/14/2016

job #: 15-077

project: Permit Site #1 - Village Point Drive Phase III

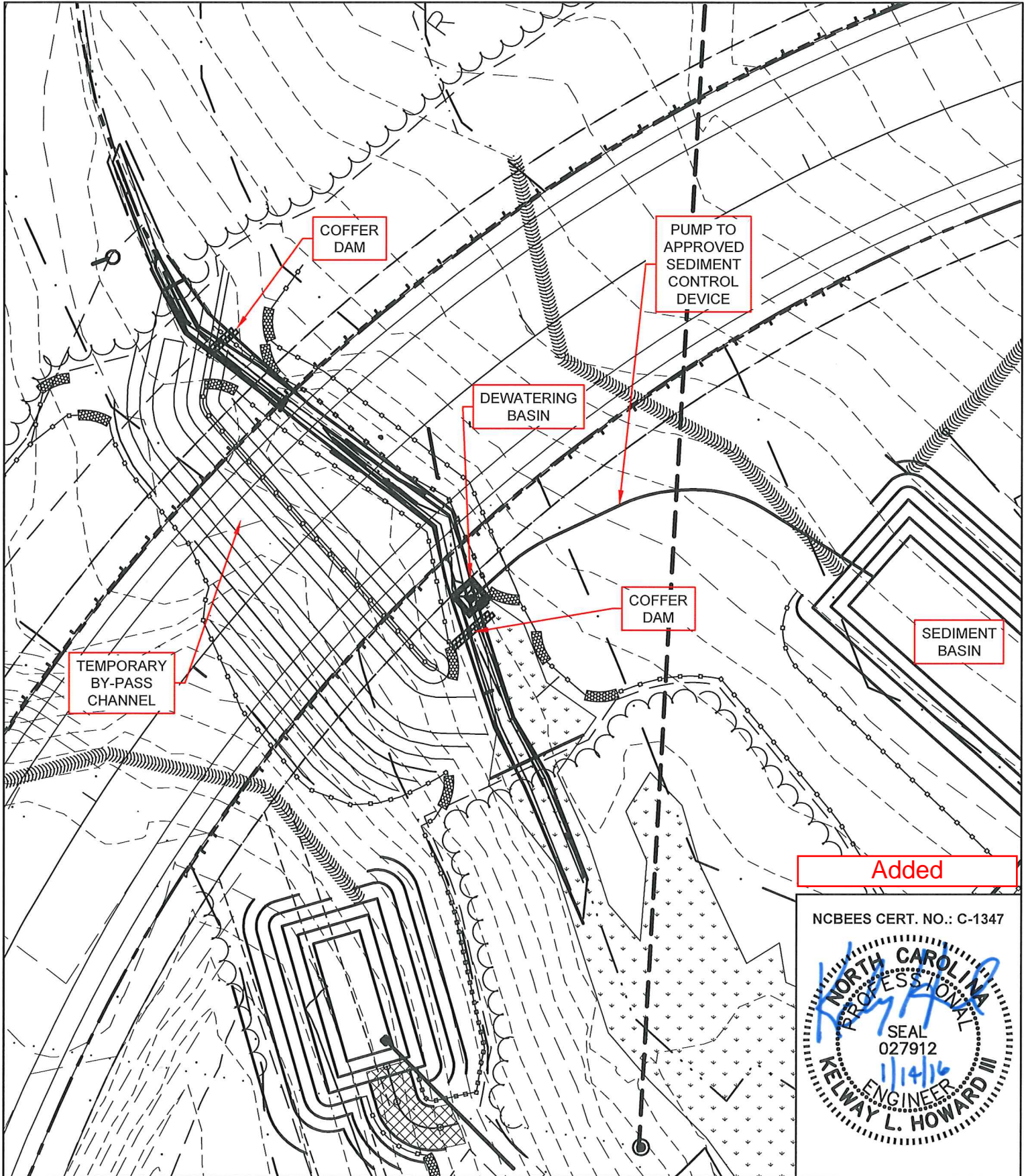
scale: 1"=40'

sheet 1 of 1

description: Wetland & Stream

Diversion Channel & Dewatering

EXHIBIT



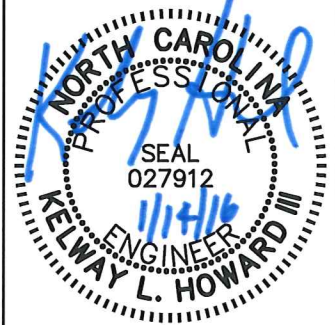
Added

NCBEES CERT. NO.: C-1347

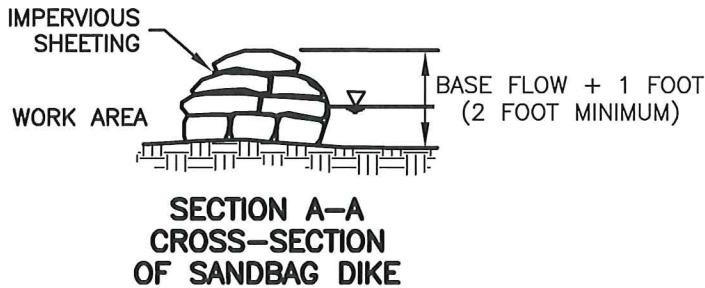
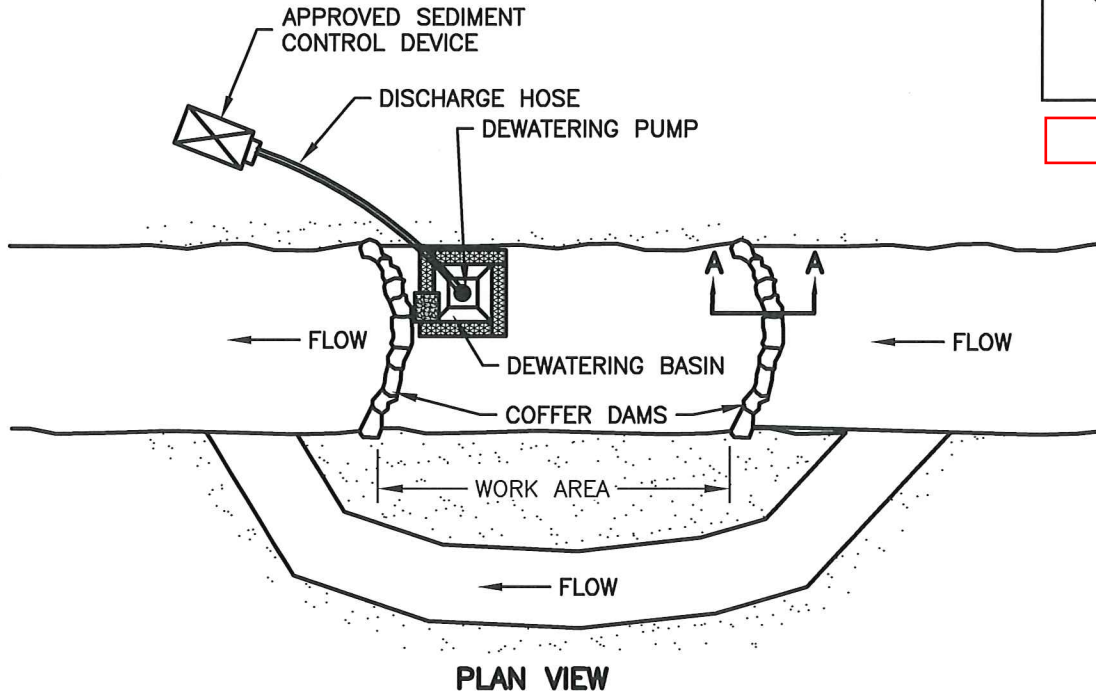
The seal is circular with the text "NORTH CAROLINA PROFESSIONAL ENGINEER" around the perimeter. In the center, it says "SEAL 027912" and "1/14/16". The name "KELWAY L. HOWARD III" is written across the bottom of the seal.

EXHIBIT

NCBEES CERT. NO.: C-1347



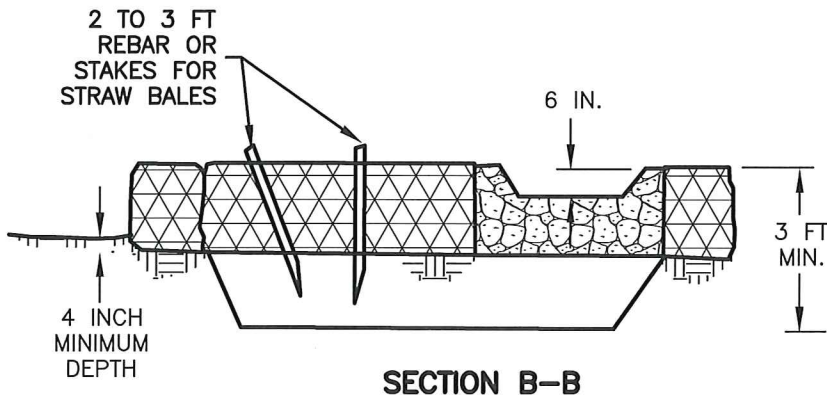
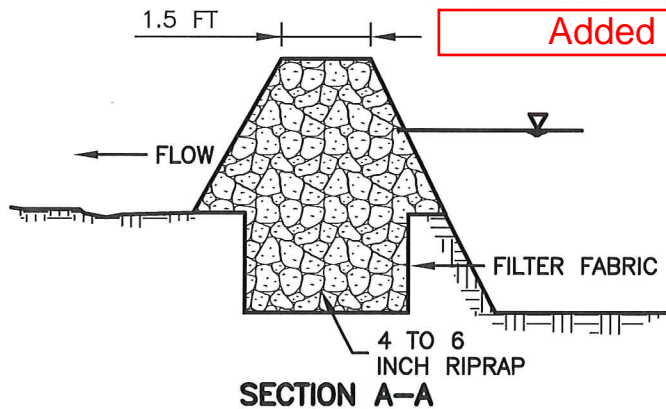
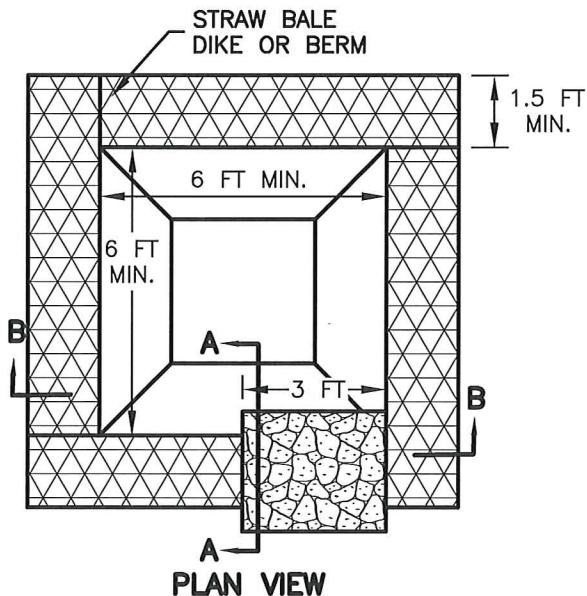
Added



**TEMPORARY BYPASS CHANNEL
& DEWATERING DETAIL**

EXHIBIT

NCBEES CERT. NO.: C-1347



TEMPORARY DEWATERING BASIN DETAIL

SCALE: NTS



Stimmel Associates, PA

Stimmel
Landscape Architecture
Civil Engineering
Land Planning

601 N. Trade Street
Suite 200
Winston Salem, NC
27101-2916

P: 336.723.1067
F: 336.723.1069

REVISED 1-14-16
date: 11-17-15

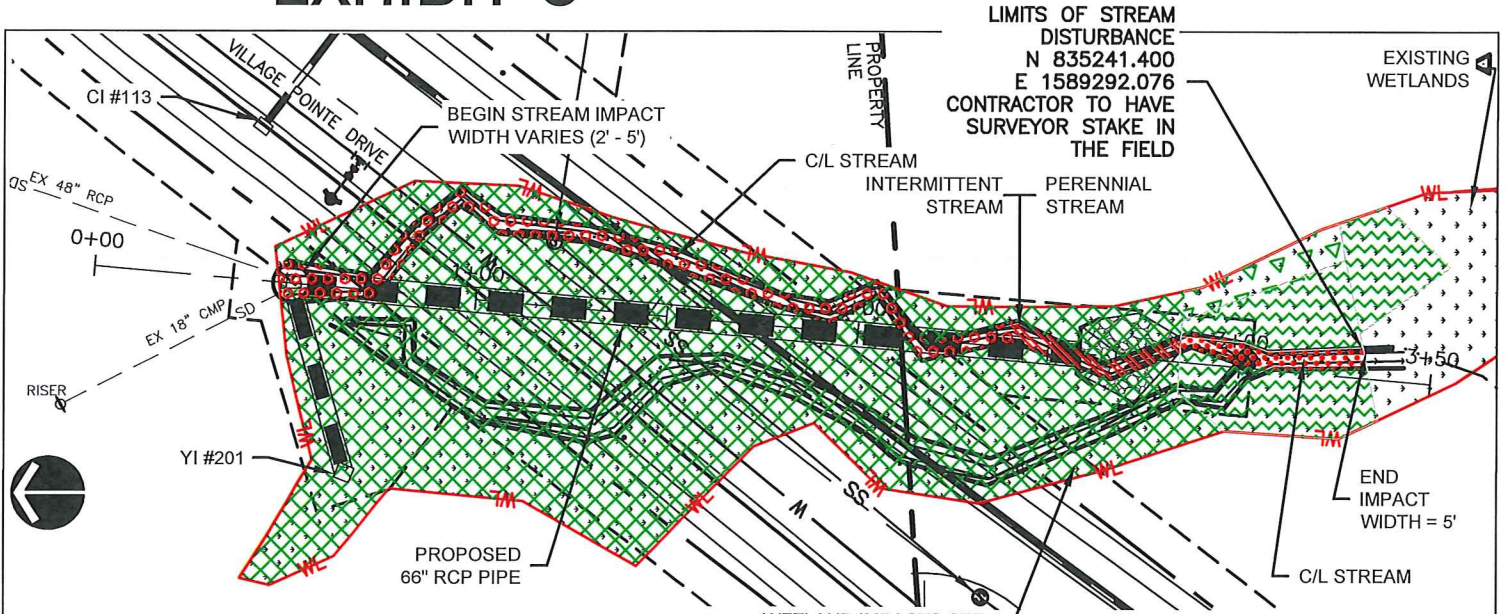
job #: 15-077

project: Permit Site #2 - Village Pointe Drive Phase IV

scale: 1"=50' (PLAN) sheet 3 of 3

description: Roadway Culvert Impacts

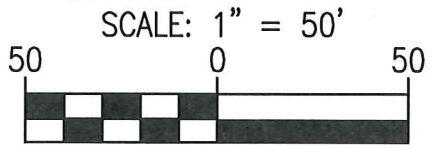
EXHIBIT C



TOTAL STREAM IMPACT=305.40 LF

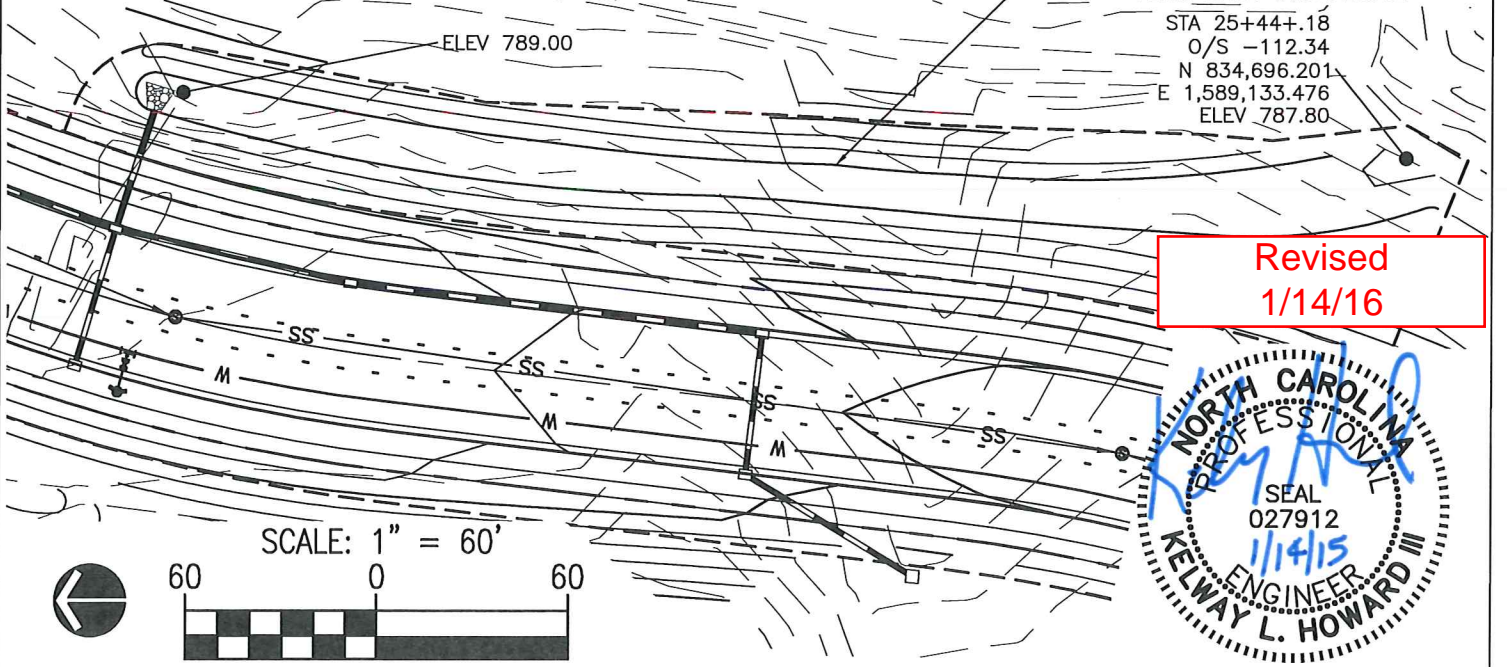
PERMANENT IMPACTS TO SURFACE WATER (INTERMITTENT) 209.6 LF 1,035.99 SF -> 0.02 AC	
PERMANENT IMPACTS TO SURFACE WATER (PERENNIAL) 46.3 LF 194.85 SF -> 0.004 AC	
TEMPORARY IMPACTS TO SURFACE WATER (PERENNIAL) 49.5 LF 232.53 SF -> 0.005 AC	

WETLAND: PERMANENT FILL 13,922.50 SF -> 0.32 AC	
MECHANIZED CLEARING 465.60 SF -> 0.01 AC	
TEMPORARY FILL 1,963.07 SF -> 0.045 AC	

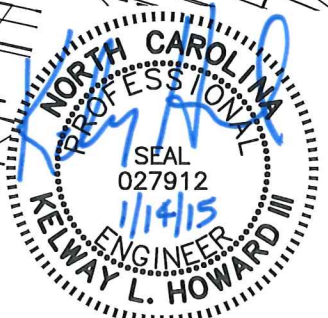


NCDOT STORMWATER SWALE
DRAINAGE AREA 3.10 AC
LENGTH 380 LF
BOTTOM WIDTH 6'
CHANNEL DEPTH 1.5'
CHANNEL SLOPE 0.3%
SIDE SLOPES 3:1
NORTH AMERICAN GREEN
SC250 STAPLE E
PERM LINER TALL FESCUE

STA 25+44±.18
O/S -112.34
N 834,696.201
E 1,589,133.476
ELEV 787.80



Revised 1/14/16





Stimmel
Landscape Architecture
Civil Engineering
Land Planning

601 N. Trade Street
Suite 200
Winston Salem, NC
27101-2916

P: 336.723.1067
F: 336.723.1069

date: 1-14-16

job #: 15-077

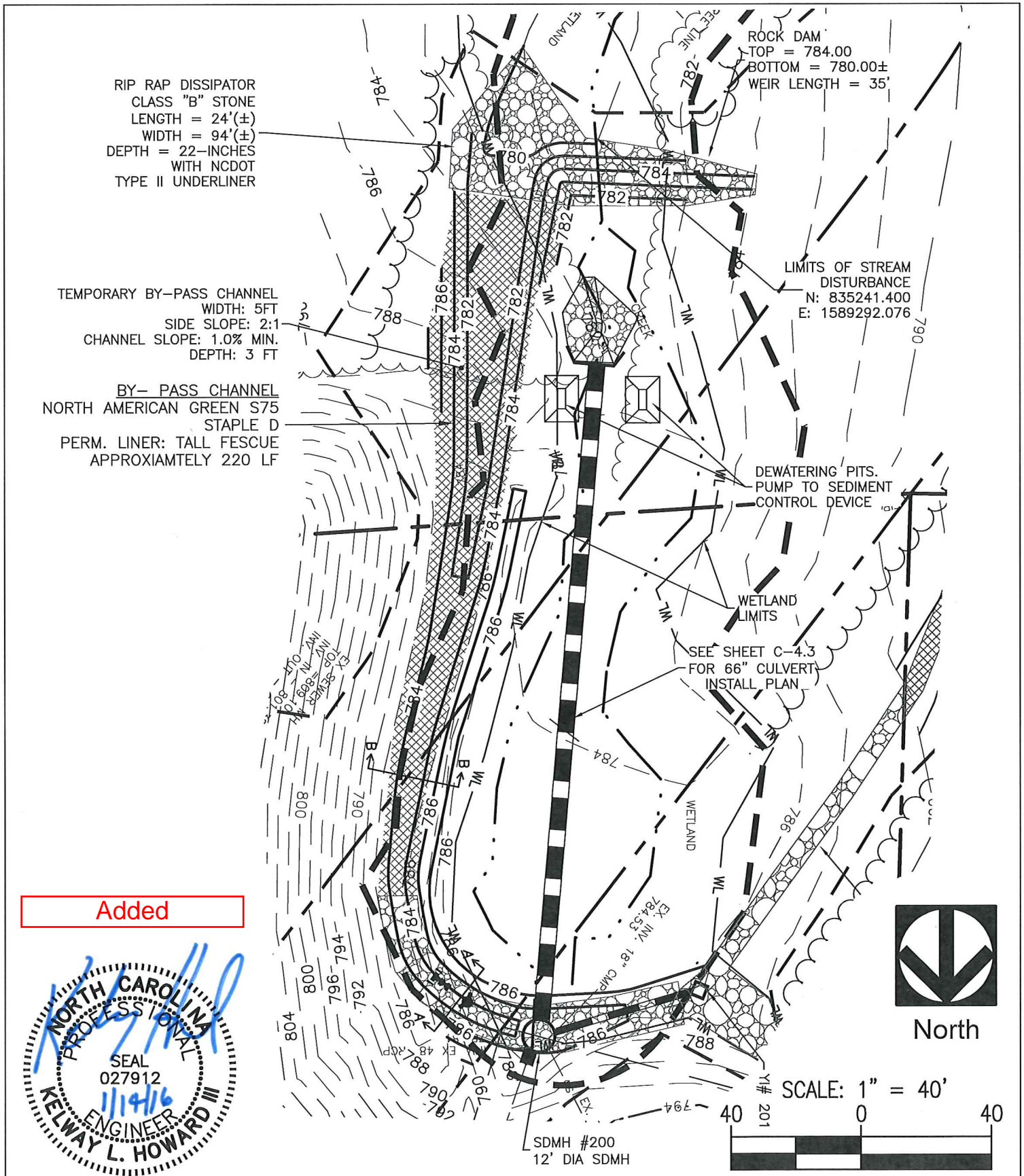
project: Permit Site #2 - Village Pointe Drive Phase IV

scale: 1"=40'

sheet 1 of 1

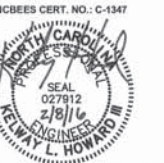
description: DEWATERING IMPACTS (PHASE IV)

EXHIBIT D





SEALS:



PROJECT:

VILLAGE POINT
 VILLAGE POINT DRIVE PHASE IV
 CLEMMONS, NORTH CAROLINA

CLIENT:

THE VILLAGE OF CLEMMONS
 3715 CLEMMONS ROAD
 CLEMMONS, NC 27012
 336-766-7511

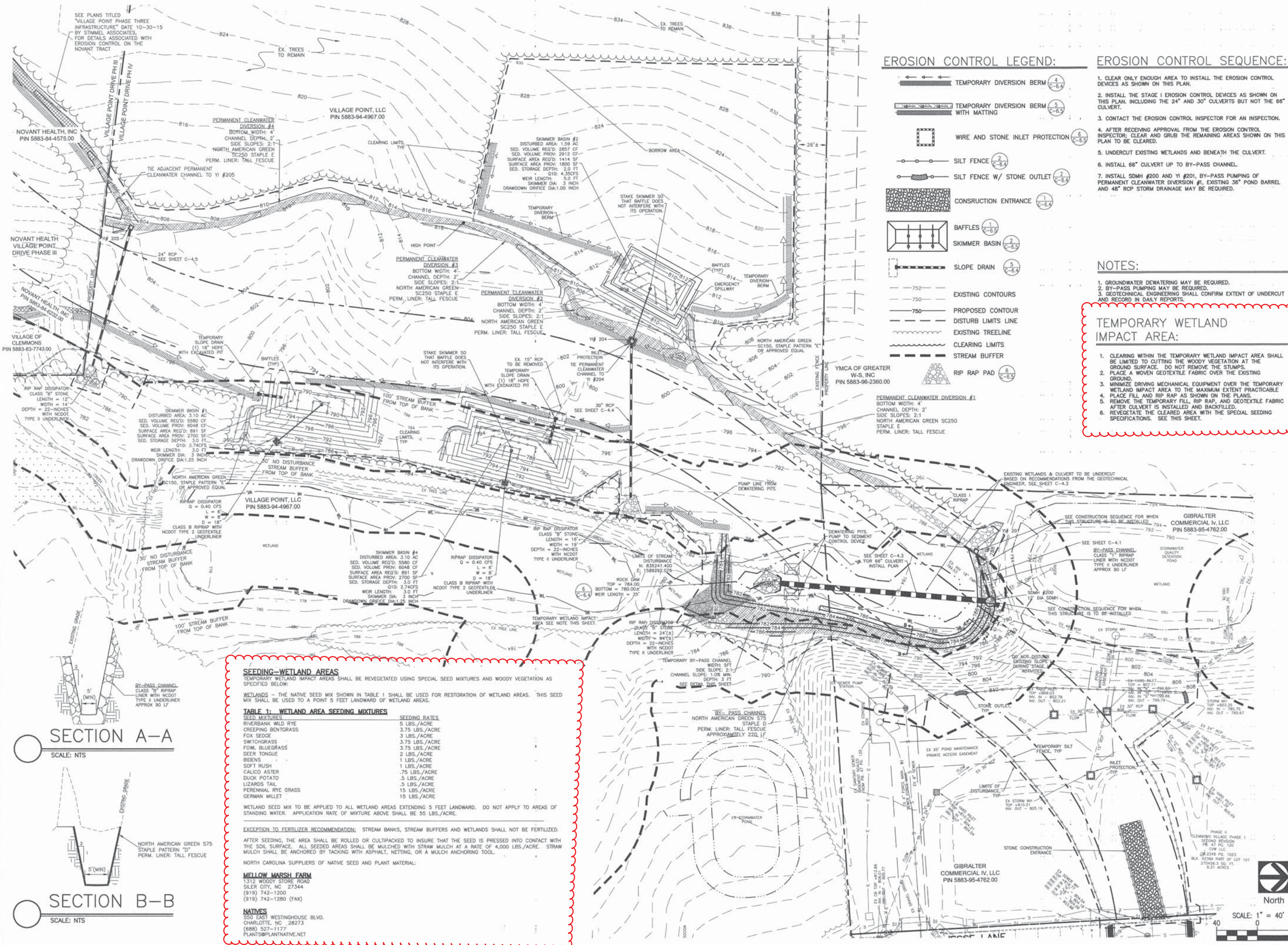
DRAWN: JNG
 DATE: 10/30/2015
 REVISIONS:

JOB NO: 15-077
 SHEET TITLE: GRADING AND EROSION CONTROL - STAGE I

SCALE: SHEET NO:

C-3.0

© STIMMEL ASSOCIATES, P.A.



EROSION CONTROL LEGEND:

- TEMPORARY DIVERSION BERM (4) (C-6.4)
- TEMPORARY DIVERSION BERM WITH MATTING (5) (C-6.5)
- WIRE AND STONE INLET PROTECTION (6) (C-6.6)
- SILT FENCE (2) (C-6.7)
- SILT FENCE W/ STONE OUTLET (2) (C-6.7)
- CONSTRUCTION ENTRANCE (1) (C-6.4)
- BAFFLES (1) (C-6.5)
- SKIMMER BASIN (2) (C-6.5)
- SLOPE DRAIN (3) (C-6.4)
- EXISTING CONTOURS (752)
- PROPOSED CONTOUR (750)
- DISTURB LIMITS LINE (750)
- EXISTING TREELINE
- CLEARING LIMITS
- STREAM BUFFER
- RIP RAP PAD (6) (C-6.5)

EROSION CONTROL SEQUENCE:

1. CLEAR ONLY ENOUGH AREA TO INSTALL THE EROSION CONTROL DEVICES AS SHOWN ON THIS PLAN.
2. INSTALL THE STAGE I EROSION CONTROL DEVICES AS SHOWN ON THIS PLAN, INCLUDING THE 24" AND 30" CULVERTS BUT NOT THE 66" CULVERT.
3. CONTACT THE EROSION CONTROL INSPECTOR FOR AN INSPECTION.
4. AFTER RECEIVING APPROVAL FROM THE EROSION CONTROL INSPECTOR, CLEAR AND GRUB THE REMAINING AREAS SHOWN ON THIS PLAN TO BE CLEARED.
5. UNDERCUT EXISTING WETLANDS AND BENEATH THE CULVERT.
6. INSTALL 66" CULVERT UP TO BY-PASS CHANNEL.
7. INSTALL SDMH #200 AND Y1 #201, BY-PASS PUMPING OF PERMANENT CLEANWATER DIVERSION #1, EXISTING 36" POND BARREL AND 48" RCP STORM DRAINAGE MAY BE REQUIRED.

NOTES:

1. GROUNDWATER DEWATERING MAY BE REQUIRED.
2. BY-PASS PUMPING MAY BE REQUIRED.
3. GEOTECHNICAL ENGINEERING SHALL CONFIRM EXTENT OF UNDERCUT AND RECORD IN DAILY REPORTS.

TEMPORARY WETLAND IMPACT AREA:

1. CLEARING WITHIN THE TEMPORARY WETLAND IMPACT AREA SHALL BE LIMITED TO CUTTING THE WOODY VEGETATION AT THE GROUND SURFACE. DO NOT REMOVE THE STUMPS.
2. PLACE A WOVEN GEOTEXTILE FABRIC OVER THE EXISTING GROUND.
3. MINIMIZE DRIVING MECHANICAL EQUIPMENT OVER THE TEMPORARY WETLAND IMPACT AREA TO THE MAXIMUM EXTENT PRACTICABLE.
4. PLACE FILL AND RIP RAP AS SHOWN ON THE PLANS.
5. REMOVE THE TEMPORARY FILL, RIP RAP, AND GEOTEXTILE FABRIC AFTER CULVERT IS INSTALLED AND BACKFILLED.
6. REVEGETATE THE CLEARED AREA WITH THE SPECIAL SEEDING SPECIFICATIONS. SEE THIS SHEET.

SEEDING WETLAND AREAS

TEMPORARY WETLAND IMPACT AREAS SHALL BE REVEGETATED USING SPECIAL SEED MIXTURES AND WOODY VEGETATION AS SPECIFIED BELOW:

WETLANDS - THE NATIVE SEED MIX SHOWN IN TABLE 1 SHALL BE USED FOR RESTORATION OF WETLAND AREAS. THIS SEED MIX SHALL BE USED TO A POINT 5 FEET LANDWARD OF WETLAND AREAS.

SEED MIXTURES	SEEDING RATES
RIVERBANK WLD RYE	5 LBS./ACRE
CREeping BENTGRASS	3.75 LBS./ACRE
FOX SEDGE	3 LBS./ACRE
SWITCHGRASS	3.75 LBS./ACRE
FOWL BLUEGRASS	3.75 LBS./ACRE
DEER TONGUE	2 LBS./ACRE
BIDENS	1 LBS./ACRE
SOFT RUSH	1 LBS./ACRE
CALICO ASTER	.75 LBS./ACRE
DUCK POTATO	.5 LBS./ACRE
LIZARDS TAIL	.5 LBS./ACRE
PERENNIAL RYE GRASS	15 LBS./ACRE
GERMAN MILLET	15 LBS./ACRE

WETLAND SEED MIX TO BE APPLIED TO ALL WETLAND AREAS EXTENDING 5 FEET LANDWARD. DO NOT APPLY TO AREAS OF STANDING WATER. APPLICATION RATE OF MIXTURE ABOVE SHALL BE 55 LBS./ACRE.

EXCEPTION TO FERTILIZER RECOMMENDATION: STREAM BANKS, STREAM BUFFERS AND WETLANDS SHALL NOT BE FERTILIZED.

AFTER SEEDING, THE AREA SHALL BE ROLLED OR CULPACKED TO INSURE THAT THE SEED IS PRESSED INTO CONTACT WITH THE SOIL SURFACE. ALL SEEDED AREAS SHALL BE MULCHED WITH STRAW MULCH AT A RATE OF 4,000 LBS./ACRE. STRAW MULCH SHALL BE ANCHORED BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL.

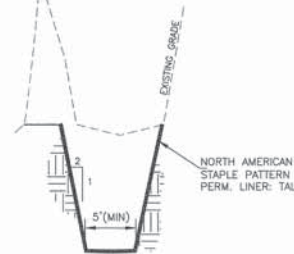
NORTH CAROLINA SUPPLIERS OF NATIVE SEED AND PLANT MATERIAL:

MELLOW MARSH FARM
 1312 WOODY STORE ROAD
 SILER CITY, NC 27344
 (919) 742-1200
 (919) 742-1280 (FAX)

NATIVES
 550 EAST WESTINGHOUSE BLVD.
 CHARLOTTE, NC 28273
 (888) 527-1177
 PLANTS@PLANTNATIVE.NET

SECTION A-A

SCALE: NTS



SECTION B-B

SCALE: NTS



F:\13-234A\Drawings\CD\NCDOT\Revisions\13-234_C-3.0_EROSION_CONTROL_STAGE_1_02/18/16_11:04am