



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits
(along with corresponding Water Quality Certifications)

April 13, 2022 Ver 4.3

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.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf>

A. Processing Information

Pre-Filing Meeting Date Request was submitted on: *

9/28/2020

If this is a courtesy copy, please fill in this with the submission date.

County (or Counties) where the project is located: *

Beaufort

Is this a NCDMS Project? *

☐ Yes ☒ No

Click Yes, only if NCDMS is the applicant or co-applicant.

Is this project a public transportation project? *

☒ Yes ☐ No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

Is this a NCDOT Project? *

☒ Yes ☐ No

(NCDOT only) T.I.P. or state project number:

B-5614

WBS # *

45569.3.1

(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)

Has this PCN previously been submitted? *

☐ Yes
☒ No

1b. What type(s) of permit(s) do you wish to seek authorization? *

- ☐ Nationwide Permit (NWP)
☒ Regional General Permit (RGP)
☐ Standard (IP)

1c. Has the NWP or GP number been verified by the Corps? *

☐ Yes ☒ No

Regional General Permit (RGP) Number:

201902350 - Work associated with bridge construction, widening, replacement, and interchanges

RGP Numbers (for multiple RGPs):

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

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

check all that apply

- | | |
|---|--|
| ☒ 401 Water Quality Certification - Regular | ☐ 401 Water Quality Certification - Express |
| ☐ Non-404 Jurisdictional General Permit | ☒ Riparian Buffer Authorization |
| ☐ Individual 401 Water Quality Certification | |

1e. Is this notification solely for the record because written approval is not required?

*

For the record only for DWR 401 Certification:

☐ Yes ☒ No

For the record only for Corps Permit:

☐ Yes ☒ No

1f. Is this an after-the-fact permit application? *

☐ Yes ☒ No

1g. 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.

☒ Yes ☐ No

Acceptance Letter Attachment

Click the upload button or drag and drop files here to attach document

DMS Accept_Revised_B-5614.pdf

317.64KB

FILE TYPE MUST BE PDF

1h. Is the project located in any of NC's twenty coastal counties? *

☒ Yes ☐ No

1i. Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

☒ Yes ☐ No ☐ Unknown

1j. Is the project located in a designated trout watershed? *

☐ Yes ☒ No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

B. Applicant Information

1a. Who is the Primary Contact? *

Deanna Riffey

1b. Primary Contact Email: *

driffey@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6151

1d. Who is applying for the permit? *

☒ Owner

(Check all that apply)

☒ Applicant (other than owner)

1e. Is there an Agent/Consultant for this project? *

☐ Yes ☒ No

2. Owner Information

2a. Name(s) on recorded deed: *

n/a

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address *

Street Address

n/a

Address Line 2

City

n/a

Postal / Zip Code

n/a

State / Province / Region

n/a

Country

n/a

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6000

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

maturchy@ncdot.gov

3. Applicant Information (if different from owner)

3a. Name: *

NCDOT

3b. Business Name:

(if applicable)

3c. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

US

3d. Telephone Number: *

(919)707-6000

(xxx)xxx-xxxx

3e. Fax Number:

(xxx)xxx-xxxx

3f. Email Address: *

maturchy@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

Replacement of Bridge #9 on SR1112 (Mouth of The Creek Rd) over Blounts Creek (B-5614 Central)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Chocowinity

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

Postal / Zip Code

State / Province / Region

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: *

35.433294

ex: 34.208504

Longitude: *

-76.971078

-77.796371

3. Surface Waters

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

Blounts Bay

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

SB; NSW

[Surface Water Lookup](#)

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

Tar-Pamlico

3d. Please provide the 12-digit HUC in which the project is located. *

030201040107

[River Basin Lookup](#)

4. Project Description and History

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: *

Bridge 9 was built in 1990. Bridge 9 is approximately 600 feet long, 24 feet wide and consists of 15 spans.

Land use in the project study area is a combination of maintained roadsides, residential, and undeveloped natural areas. The project study area is rural and predominantly undeveloped with maintained/mowed road right-of-way, open stream channel flanked by floodplain, several wetlands, and residential homes.

4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past? *

☐ Yes ☒ No ☐ Unknown

4f. List the total estimated acreage of all existing wetlands on the property:

3.16

4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial)

620

4h. Explain the purpose of the proposed project: *

Bridge 9 is considered structurally deficient due to the superstructure and substructure conditions.

4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: *

The proposed replacement of Bridge No. 9 over the Blounts Creek will be on new alignment to the south of the existing bridge while traffic is maintained on the existing bridge and boater access will be maintained under the bridge during construction, except for the possibility of short duration closures when construction or demolition has to take place in the channel.

Proposed replacement Bridge 9 will have two 10-foot lanes and 5-foot paved shoulders on both sides of the bridge with 8 spans. The replacement Bridge 9 will be approximately 962 feet long. A temporary causeway will be installed to provide access for the contractor to remove the timber piles and concrete footings. The removal of existing timber piles will be conducted using approved NCDOT Best Management Practice methods.

Standard road building equipment, such as trucks, bulldozers, and cranes will be used.

5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas? *

☒ Yes ☐ No ☐ Unknown

Comments:

5b. If the Corps made a jurisdictional determination, what type of determination was made? *

☒ Preliminary ☐ Approved ☐ Not Verified ☐ Unknown ☐ N/A

Corps AID Number:

Example: SAW-2017-99999

5c. If 5a is yes, who delineated the jurisdictional areas?

Name (if known): Deanna Riffey

Agency/Consultant Company: NCDOT

Other:

5d. List the dates of the Corp jurisdiction determination or State determination if a determination was made by the Corps or DWR.

Site visit made August 23, 2018.

6. Future Project Plans

6a. Is this a phased project? *

☐ Yes ☒ No

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

☒ Wetlands ☐ Streams-tributaries ☒ Buffers ☒ Open Waters ☐ Pond Construction

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site # * (?)	2a1 Reason * (?)	2b. Impact type * (?)	2c. Type of W. *	2d. W. name *	2e. Forested *	2f. Type of Jurisdiction * (?)	2g. Impact area *

1	Fill -Road/Bridge Approach	P	Headwater Forest	WA	Yes	Both	0.370 (acres)
2	Fill-Work Bridge	T	Salt/Brackish Marsh	WB	No	Both	0.008 (acres)

2g. Total Temporary Wetland Impact

0.008

2g. Total Permanent Wetland Impact

0.370

2g. Total Wetland Impact

0.378

2i. Comments:

There will be hand clearing of 0.08 acres for WA (Site 1) and 0.002 acres for WB (Site 2) for bridge bents. There will be hand clearing of 0.001 acres for WC (Site 1- Utilities) and 0.14 acres for WB (Site 2 -Utilities) for power lines and telephone cable.

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 # * (?)	4a1. Impact Reason	4b. Impact type * (?)	4c. Name of waterbody (?)	4d. Activity type *	4e. Waterbody type *	4f. Impact area *
2	Fill	P	Blounts Creek	Bridge	Tributary	0.02 (acres)
2	Fill	T	Blounts Creek	Bridge	Tributary	0.08 (acres)
2	Work bridge	T	Blounts Creek	Other	Tributary	1.11 (acres)

4g. Total temporary open water Impacts:

1.19

4g. Total permanent open water impacts:

0.02

4g. Total open water impacts:

1.21

4h. Comments:

0.02 ac of permanent SW impacts equates to 33 ft of existing channel impacts
0.08 ac of temporary SW impacts equates to 65 ft of existing channel impacts

6. Buffer Impacts (for DWR)

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

6a. Project is in which protect basin(s)? *

Check all that apply.

- ☐ Neuse
- ☐ Catawba
- ☐ Goose Creek
- ☐ Other
- ☒ Tar-Pamlico
- ☐ Randleman
- ☐ Jordan Lake

6b. Impact Type * (?)	6c. Per or Temp * (?)	6d. Stream name *	6e. Buffer mitigation required? *	6f. Zone 1 impact *	6g. Zone 2 impact *
Bridge - Allowable	P	Blounts Creek	No	2,700 (square feet)	1,883 (square feet)
Proposed Driveway - Mitigable	P	Blounts Creek	Yes	1,341 (square feet)	856 (square feet)
Existing Driveway - Allowable	P	Blounts Creek	No	551 (square feet)	0 (square feet)
Bridge- Allowable	P	Blounts Creek	No	5,504 (square feet)	3,540 (square feet)
Underground power and telephone - Allowable	P	Blounts Creek	No	834 (square feet)	197 (square feet)
Overhead power and telephone - Allowable	P	Blounts Creek	No	203 (square feet)	105 (square feet)

6h. Total buffer impacts:

	Zone 1	Zone 2
Total Temporary impacts:	0.00	0.00
Total Permanent impacts:	11,133.00	6,581.00
Total combined buffer impacts:	11,133.00	6,581.00

6i. Comments:

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: *

Design Standards in Sensitive Watersheds will be implemented.

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

Traffic will be maintained on the existing bridge during construction. Stormwater outfalls will be placed outside of the buffer zones and will have rip-rap pads to help dissipate energy and reduce velocity. 3:1 side slopes will be used. An in-water work moratorium from 2/15-6/30 will be adhered due to anadromous fish.

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?

☒ Yes ☐ No

2c. If yes, mitigation is required by (check all that apply):

☐ DWR ☒ Corps

2d. If yes, which mitigation option(s) will be used for this project?

☐ Mitigation bank ☒ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation

4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached.

☒ Yes ☐ No

4b. Stream mitigation requested:

(linear feet)

4c. If using stream mitigation, what is the stream temperature:

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's [RIBITS](#) website.

4d. Buffer mitigation requested (DWR only):

(square feet)

4e. Riparian wetland mitigation requested:

(acres)

0.37

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

4h. Comments

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

*** Recent changes to the stormwater rules have required updates to this section .***

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. All buffer impacts and high ground impacts require diffuse flow or other form of stormwater treatment. If the project is subject to a state implemented riparian buffer protection program, include a plan that fully documents how diffuse flow will be maintained.

All Stormwater Control Measures (SCM)s must be designed in accordance with the [NC Stormwater Design Manual](#). Associated supplement forms and other documentation shall be provided.

What type of SCM are you providing?

- ☐ Level Spreader
- ☐ Vegetated Conveyance (lower SHWT)
- ☐ Wetland Swale (higher SHWT)
- ☒ Other SCM that removes minimum 30% nitrogen
- ☐ Proposed project will not create concentrated stormwater flow through the buffer

(check all that apply)

For a list of options to meet the diffuse flow requirements, click [here](#).

2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250? *

☒ Yes ☐ No

Comments:

G. Supplementary Information



1. Environmental Documentation

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

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? *

☐ Yes ☒ No

3. Cumulative Impacts (DWR Requirement)

3a. 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 "no," provide a short narrative description.

Due to minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth.

4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? *

☐ Yes ☒ No ☐ N/A

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? *

☒ Yes ☐ No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? *

☒ Yes ☐ No

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

5d. Is another Federal agency involved? *

☒ Yes ☐ No ☐ Unknown

What Federal Agency is involved?

NOAA -National Marine Fisheries Service (NMFS)

5e. Is this a DOT project located within Division's 1-8? *

☒ Yes ☐ No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? *

NC Natural Heritage Program database, USFWS Raleigh Field Office and IPaC (Information for Planning and Consultation) website, and NOAA National Marine Fisheries correspondence.

6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? *

☒ Yes ☐ No

Are there submerged aquatic vegetation (SAV) around the project vicinity? *

☒ Yes ☐ No ☐ Unknown

Will this project affect submerged aquatic vegetation? *

☐ Yes
☒ No
☐ Unknown
☐ Explain

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? *

NOAA EFH Fish Mapper. A survey was done in June 2022. SAV's have been mapped on the northeast side of the project area outside of the footprint of the bridge.

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

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

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)? *

☐ Yes ☒ No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources? *

Appendix B of CE document- Archaeological: No National Register of Historic Places Eligible or Listed Archaeological Sites Present Form (7/8/21) & Architectural: No Historic Properties Present or Affected Form (12/30/15)

8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain? *

☒ Yes ☐ No

8b. If yes, explain how project meets FEMA requirements:

The bridge area is located in Zone AE in a Coastal County. As such, the low chord of the proposed bridge was designed to be at or higher than the low chord of the existing bridge per CAMA county requirements.

8c. What source(s) did you use to make the floodplain determination? *

Flood Insurance Rate Map (FIRM)

Miscellaneous

Comments

Atlantic sturgeon was given a May Affect, Not Likely to Adversely Affect biological conclusion with no moratorium requested by NMFS. The Programmatic Biological Opinion (PBO) will be used for Northern long-eared bat due to project location in Divisions 1-8.

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

[Click the upload button or drag and drop files here to attach document](#)

B5614 Permit Drawings.pdf

14.76MB

File must be PDF or KMZ

Signature

*

☒ By checking the box and signing below, I certify that:

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name: *

Mack Christopher Rivenbark, III

Signature*

Chris Riverbank

Date

9/8/2022



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726

GUIDELINES FOR AVOIDING IMPACTS TO THE WEST INDIAN MANATEE

Precautionary Measures for Construction Activities in North Carolina Waters

The West Indian manatee (*Trichechus manatus*), also known as the Florida manatee, is a Federally-listed endangered aquatic mammal protected under the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*) and the Marine Mammal Protection Act of 1972, as amended (16 U.S.C. 1461 *et seq.*). The manatee is also listed as endangered under the North Carolina Endangered Species Act of 1987 (Article 25 of Chapter 113 of the General Statutes). The U.S. Fish and Wildlife Service (Service) is the lead Federal agency responsible for the protection and recovery of the West Indian manatee under the provisions of the Endangered Species Act.

Adult manatees average 10 feet long and weigh about 2,200 pounds, although some individuals have been recorded at lengths greater than 13 feet and weighing as much as 3,500 pounds. Manatees are commonly found in fresh, brackish, or marine water habitats, including shallow coastal bays, lagoons, estuaries, and inland rivers of varying salinity extremes. Manatees spend much of their time underwater or partly submerged, making them difficult to detect even in shallow water. While the manatee's principal stronghold in the United States is Florida, the species is considered a seasonal inhabitant of North Carolina with most occurrences reported from June through October.

To protect manatees in North Carolina, the Service's Raleigh Field Office has prepared precautionary measures for general construction activities in waters used by the species. Implementation of these measures will allow in-water projects which do not require blasting to proceed without adverse impacts to manatees. In addition, inclusion of these guidelines as conservation measures in a Biological Assessment or Biological Evaluation, or as part of the determination of impacts on the manatee in an environmental document prepared pursuant to the National Environmental Policy Act, will expedite the Service's review of the document for the fulfillment of requirements under Section 7 of the Endangered Species Act. These measures include:

- 1 The project manager and/or contractor will inform all personnel associated with the project that manatees may be present in the project area, and the need to avoid any harm to these endangered mammals. The project manager will ensure that all construction personnel know the general appearance of the species and their habit of moving about completely or partially submerged in shallow water. All construction personnel will be informed that they are responsible for observing water-related activities for the presence of manatees.
2. The project manager and/or the contractor will advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act and the Endangered Species Act.

3. If a manatee is seen within 100 yards of the active construction and/or dredging operation or vessel movement, all appropriate precautions will be implemented to ensure protection of the manatee. These precautions will include the immediate shutdown of moving equipment if a manatee comes within 50 feet of the operational area of the equipment. Activities will not resume until the manatee has departed the project area on its own volition (i.e., it may not be herded or harassed from the area).

4. Any collision with and/or injury to a manatee will be reported immediately. The report must be made to the U.S. Fish and Wildlife Service (ph. 919-856-4520), the National Marine Fisheries Service (ph. 252-728-8762), and the North Carolina Wildlife Resources Commission (ph. 252-448-1546).

5. A sign will be posted in all vessels associated with the project where it is clearly visible to the vessel operator. The sign should state:

CAUTION: The endangered manatee may occur in these waters during the warmer months, primarily from June through October. Idle speed is required if operating this vessel in shallow water during these months. All equipment must be shut down if a manatee comes within 50 feet of the vessel or operating equipment. A collision with and/or injury to the manatee must be reported immediately to the U.S. Fish and Wildlife Service (919-856-4520), the National Marine Fisheries Service (252-728-8762), and the North Carolina Wildlife Resources Commission (252-448-1546).

6. The contractor will maintain a log detailing sightings, collisions, and/or injuries to manatees during project activities. Upon completion of the action, the project manager will prepare a report which summarizes all information on manatees encountered and submit the report to the Service's Raleigh Field Office.

7. All vessels associated with the construction project will operate at "no wake/idle" speeds at all times while in water where the draft of the vessel provides less than a four foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

8. If siltation barriers must be placed in shallow water, these barriers will be: (a) made of material in which manatees cannot become entangled; (b) secured in a manner that they cannot break free and entangle manatees; and, (c) regularly monitored to ensure that manatees have not become entangled. Barriers will be placed in a manner to allow manatees entry to or exit from essential habitat.

Prepared by (rev. 02/2017):
U.S. Fish and Wildlife Service
Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726
919/856-4520

Figure 1. The whole body of the West Indian manatee may be visible in clear water; but in the dark and muddy waters of coastal North Carolina, one normally sees only a small part of the head when the manatee raises its nose to breathe.

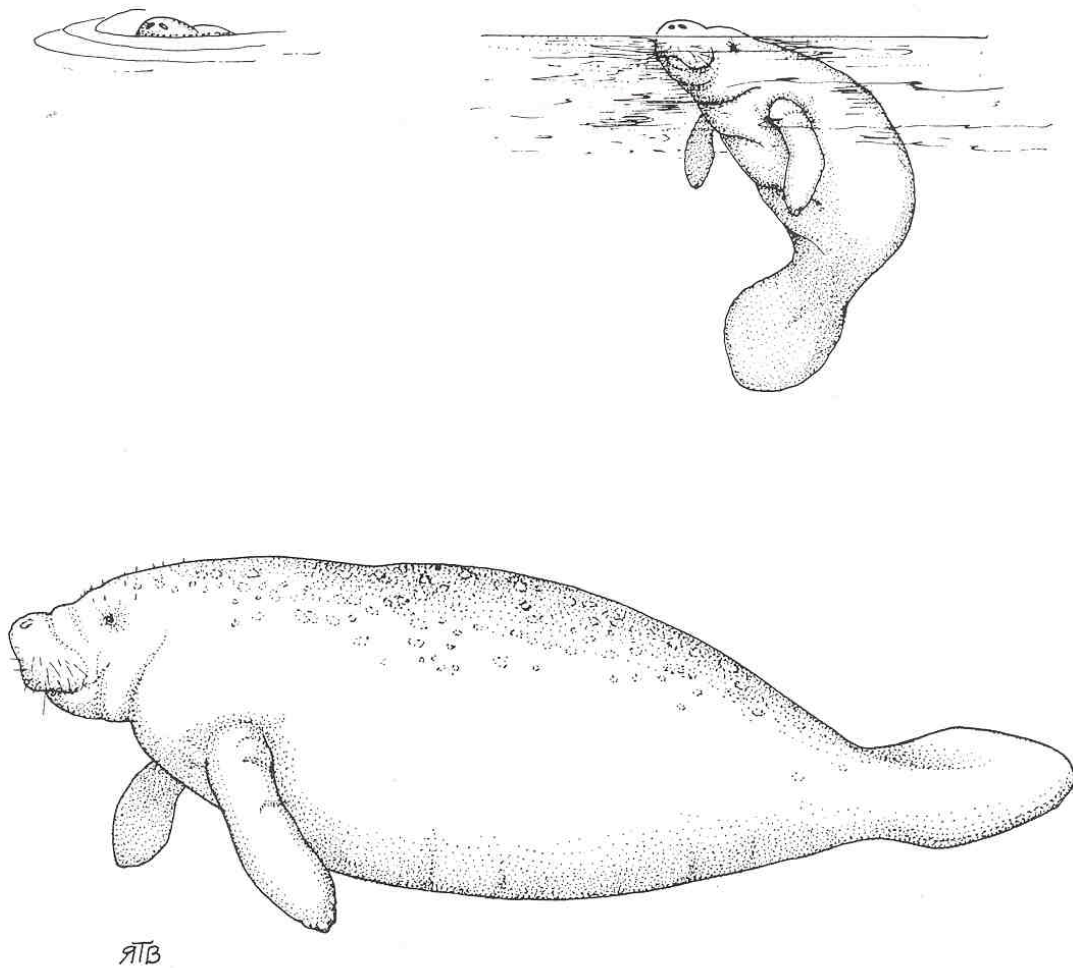


Illustration used with the permission of the North Carolina State Museum of Natural Sciences.

Source: Clark, M. K. 1987. Endangered, Threatened, and Rare Fauna of North Carolina: Part I. A re-evaluation of the mammals. Occasional Papers of the North Carolina Biological Survey 1987-3. North Carolina State Museum of Natural Sciences. Raleigh, NC. pp. 52.



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

September 7, 2022

NC Dept. of Environmental Quality
Division of Coastal Management
400 Commerce Street
Morehead City, NC 28557

ATTN: Mr. Stephen Lane, NCDOT Coordinator

Subject: **Application for CAMA Major Development Permit** for the Proposed Replacement of Bridge No. 9 on SR 1112 (Mouth of The Creek Rd) in Beaufort County, North Carolina; TIP No. B-5614; Federal Aid Project BRZ-1112 (017); Debit \$475 from WBS No. 45569.1.1

Dear Mr. Lane:

The Department requests authorization to replace bridge No. 9 on SR 1112 (Mouth of The Creek Road) over Blounts Creek.

Please see enclosed copies of the Division of Coastal Management Major Permit Forms 1 and 5, permit plans, buffer plans, and utility plans for the above referenced project. This project calls for a letting date of April 18, 2023 and a review date of February 8, 2023. The project schedule may be advanced if funding becomes available.

A Categorical Exclusion was completed in November 2021 and distributed shortly thereafter. Additional copies are available at the NCDOT website:

https://xfer.services.ncdot.gov/pdea/EnvironmentalDocs/Documents/STIP_B-Projects/B-5614_CE_Final_11.05.2021_Signed.pdf

NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Permit. Adjacent riparian landowner certified mail return receipts will be provided once they are received.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Rivenbark". The signature is stylized with a large "C" and "R", and the last name is written in a cursive-like script.

Chris Rivenbark, Eastern Team Lead
Environmental Coordination and Permitting Group

cc: Cathy Brittingham, NCDCM Raleigh

APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information				
Business Name North Carolina Department Of Transportation		Project Name (if applicable) B-5614		
Applicant 1: First Name Deanna	MI	Last Name Riffey		
Applicant 2: First Name N/A	MI N/A	Last Name N/A		
<i>If additional applicants, please attach an additional page(s) with names listed.</i>				
Mailing Address Environmental Analysis Unit, 1598 Mail Service Center		PO Box	City Raleigh	State NC
ZIP 27610	Country USA	Phone No. 919 - 707 - 6151 ext.		FAX No. - -
Street Address (if different from above) EAU - Centery Center A, 1000 Birch Ridge Drvie		City Raleigh	State NC	ZIP 27610-
Email driffey@ncdot.gov				

2. Agent/Contractor Information				
Business Name N/A				
Agent/ Contractor 1: First Name	MI	Last Name		
Agent/ Contractor 2: First Name	MI	Last Name		
Mailing Address		PO Box	City	State
ZIP		Phone No. 1 - - ext.		Phone No. 2 - - ext.
FAX No.		Contractor #		
Street Address (if different from above)		City	State	ZIP -
Email				

<Form continues on back>

3. Project Location				
County (can be multiple) Beaufort County		Street Address Mouth of the Creek Road		State Rd. # 1112
Subdivision Name NA		City Blounts Creek	State NC	Zip 27814 -
Phone No. - - ext.		Lot No. (s) (if many, attach additional page with list) , , , ,		
a. In which NC river basin is the project located? Tar-Pamlico River Basin		b. Name of body of water nearest to proposed project Blounts Creek		
c. Is the water body identified in (b) above, natural or manmade? ☒ Natural ☐ Manmade ☐ Unknown		d. Name the closest major water body to the proposed project site. Pamlico River		
e. Is proposed work within city limits or planning jurisdiction? ☒ Yes ☐ No		f. If applicable, list the planning jurisdiction or city limit the proposed work falls within. Beaufort County		

4. Site Description	
a. Total length of shoreline on the tract (ft.) 294	b. Size of entire tract (sq.ft.) 236,713
c. Size of individual lot(s) (If many lot sizes, please attach additional page with a list)	d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) 15' ☐ NHW or ☒ NWL
e. Vegetation on tract Maintained/Disturbed: Lawns, fields, and roadside shoulders are mostly open with scattered trees such as sweetgum, red maple, and flowering dogwood; Mesic Mixed Hardwood: bald cypress, black gum, green ash, loblolly pine, wax myrtle, sweetgum, red maple, jewel weed, lizard's tail, netted chainfern, and Japanese honeysuckle; Pine Plantation: loblolly pine, American holly, sawtooth blackberry, and laurel leaf smilax; Salt Marsh: smooth cordgrass, small spike false nettle, needlegrass rush, big cordgrass, narrowleaf cattail, alligatorweed, and water willow.	
f. Man-made features and uses now on tract Features are: SR1112 (Mouth of the Creek Road, Bridge #9, electric and water utility lines, residential homes. Uses are: transportation, residential, and recreational.	
g. Identify and describe the existing land uses <u>adjacent</u> to the proposed project site. Land use in the project study area is a combination of maintained roadsides, residential, and undeveloped natural areas.	
h. How does local government zone the tract? Residential	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) ☒ Yes ☐ No ☐ NA
j. Is the proposed activity part of an urban waterfront redevelopment proposal? ☐ Yes ☒ No	
k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. ☒ Yes ☐ No ☐ NA If yes, by whom? NCDOT Archaeology	
l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property? ☐ Yes ☒ No ☐ NA	

<Form continues on next page>

m. (i) Are there wetlands on the site?	☒ Yes ☐ No
(ii) Are there coastal wetlands on the site?	☒ Yes ☐ No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (Attach documentation, if available)	☒ Yes ☐ No

n. Describe existing wastewater treatment facilities. N/A
o. Describe existing drinking water supply source. N/A
p. Describe existing storm water management or treatment systems. NA - no existing storm water management or treatment systems

5. Activities and Impacts

a. Will the project be for commercial, public, or private use?	☐ Commercial ☒ Public/Government ☐ Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete. The proposed bridge replacement will provide an updated creek crossing over Blounts Creek for local commuters.	
c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. A workbridge will be used to build the new structure. Typical construction equipment includes crane, excavator, dump trucks, etc.	
d. List all development activities you propose. A temporary causeway will be built near the north side of the bridge. Once the new roadway is complete, the existing bridge and causeway will be removed.	
e. Are the proposed activities maintenance of an existing project, new work, or both?	new work -- bridge replacement
f. What is the approximate total disturbed land area resulting from the proposed project?	1.4 ☐ Sq.Ft or ☒ Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	☒ Yes ☐ No ☐ NA
h. Describe location and type of existing and proposed discharges to waters of the state. Existing drainage flow directly off of the existing bridge into Blounts Creek, existing bridge approaches have overland flow which discharges to Blounts Creek. The proposed drainage will be picked up within 2GI's at the end of bridge and will discharge to proposed grassed swales which eventually tie in with existing drainage features.	
i. Will wastewater or stormwater be discharged into a wetland?	☒ Yes ☐ No ☐ NA
If yes, will this discharged water be of the same salinity as the receiving water?	☐ Yes ☒ No ☐ NA
j. Is there any mitigation proposed?	☒ Yes ☐ No ☐ NA
If yes, attach a mitigation proposal.	

<Form continues on back>

6. Additional Information

In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.

a. A project narrative.
b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.
c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.

d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
e. The appropriate application fee. Check or money order made payable to DENR.
f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management. Name See Attached List Phone No. Address Name Phone No. Address Name Phone No. Address
g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates. N/A
h. Signed consultant or agent authorization form, if applicable.
i. Wetland delineation, if necessary.
j. A signed AEC hazard notice for projects in oceanfront and inlet areas. <i>(Must be signed by property owner)</i>
k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

7. Certification and Permission to Enter on Land

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit.

I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

Date 9/7/2022 Print Name Chris Rivenbark
Signature Tha C. Rivenbark

Please indicate application attachments pertaining to your proposed project.

- ☐ DCM MP-2 Excavation and Fill Information ☒ DCM MP-5 Bridges and Culverts
☐ DCM MP-3 Upland Development
☐ DCM MP-4 Structures Information

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1. BRIDGES☐ *This section not applicable*

- a. Is the proposed bridge:
☐ Commercial ☒ Public/Government ☐ Private/Community
- b. Water body to be crossed by bridge:
 Blounts Creek
- c. Type of bridge (construction material):
 Modified Bulb Tee (concrete)
- d. Water depth at the proposed crossing at NLW or NWL:
 12.0
- e. (i) Will proposed bridge replace an existing bridge? ☒ Yes ☐ No
 If yes,
 (ii) Length of existing bridge: 600'
 (iii) Width of existing bridge: 24'
 (iv) Navigation clearance underneath existing bridge: 15'
 (v) Will all, or a part of, the existing bridge be removed?
 (Explain) All of existing bridge will be removed
- f. (i) Will proposed bridge replace an existing culvert? ☐ Yes ☒ No
 If yes,
 (ii) Length of existing culvert: _____
 (iii) Width of existing culvert: _____
 (iv) Height of the top of the existing culvert above the NHW or NWL: _____
 (v) Will all, or a part of, the existing culvert be removed?
 (Explain)
- g. Length of proposed bridge: 962'
- h. Width of proposed bridge: 33'
- i. Will the proposed bridge affect existing water flow? ☐ Yes ☒ No
 If yes, explain:
- j. Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? ☐ Yes ☒ No
 If yes, explain:
- k. Navigation clearance underneath proposed bridge: 15'
- l. Have you contacted the U.S. Coast Guard concerning their approval? ☒ Yes ☐ No
 If yes, explain: Coast Guard Permit will be required.
- m. Will the proposed bridge cross wetlands containing no navigable waters? ☐ Yes ☒ No
 If yes, explain:
- n. Height of proposed bridge above wetlands: NA

2. CULVERTS☒ *This section not applicable*

- a. Number of culverts proposed: _____
- b. Water body in which the culvert is to be placed:

< Form continues on back >

- c. Type of culvert (construction material):

Form DCM MP-5 (Bridges and Culverts, Page 2 of 4)

- d. (i) Will proposed culvert replace an existing bridge? ☐ Yes ☐ No

If yes,

(ii) Length of existing bridge: _____

(iii) Width of existing bridge: _____

(iv) Navigation clearance underneath existing bridge: _____

(v) Will all, or a part of, the existing bridge be removed?
(Explain)

- f. Length of proposed culvert: _____
h. Height of the top of the proposed culvert above the NHW or NWL.

- j. Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? ☐ Yes ☐ No

If yes, explain:

- e. (i) Will proposed culvert replace an existing culvert? ☐ Yes ☐ No

If yes,

(ii) Length of existing culvert(s): _____

(iii) Width of existing culvert(s): _____

(iv) Height of the top of the existing culvert above the NHW or NWL: _____

(v) Will all, or a part of, the existing culvert be removed?
(Explain)

- g. Width of proposed culvert: _____
i. Depth of culvert to be buried below existing bottom contour.

- k. Will the proposed culvert affect existing water flow?

☐ Yes ☐ No

If yes, explain:

3. EXCAVATION and FILL

☐ This section not applicable

- a. (i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? ☐ Yes ☒ No

If yes,

(ii) Avg. length of area to be excavated: _____

(iii) Avg. width of area to be excavated: _____

(iv) Avg. depth of area to be excavated: _____

(v) Amount of material to be excavated in cubic yards: _____

- b. (i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

☐ CW _____ ☐ SAV _____ ☐ SB _____

☐ WL _____ ☒ None

- (ii) Describe the purpose of the excavation in these areas:

- c. (i) Will the placement of the proposed bridge or culvert require any high-ground excavation? ☒ Yes ☐ No

If yes,

(ii) Avg. length of area to be excavated: 16.5

(iii) Avg. width of area to be excavated: 50

(iv) Avg. depth of area to be excavated: 4.5

(v) Amount of material to be excavated in cubic yards: 150

Form DCM MP-5 (Bridges and Culverts, Page 3 of 4)

d. If the placement of the bridge or culvert involves any excavation, please complete the following:

(i) Location of the spoil disposal area: To be determined by Contractor

(ii) Dimensions of the spoil disposal area: To be determined by Contractor

(iii) Do you claim title to the disposal area? ☐ Yes ☒ No (If no, attach a letter granting permission from the owner.)

(iv) Will the disposal area be available for future maintenance? ☐ Yes ☐ No

(v) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAVs), other wetlands (WL), or shell bottom (SB)?

☐ CW ☐ SAV ☐ WL ☐ SB ☒ None

If any boxes are checked, give dimensions if different from (ii) above.

(vi) Does the disposal area include any area below the NHW or NWL? ☐ Yes ☒ No

If yes, give dimensions if different from (ii) above.

e. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? ☒ Yes ☐ No

If yes,

(ii) Avg. length of area to be filled: 32'-6" (per bent - there are 7 bents)

(iii) Avg. width of area to be filled: 3'-6" (diameter)

(iv) Purpose of fill: proposed bridge bents

f. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

☒ CW 335 ☐ SAV ☐ SB

☒ WL 15,912 ☐ None

(ii) Describe the purpose of the excavation in these areas:

Proposed Roadway embankment and bridge approaches.

g. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground? ☒ Yes ☐ No

If yes,

(ii) Avg. length of area to be filled: 1,138'

(iii) Avg. width of area to be filled: 40'

(iv) Purpose of fill: proposed roadway embankment

4. GENERAL

a. Will the proposed project require the relocation of any existing utility lines? ☒ Yes ☐ No

If yes, explain: The project includes relocation of power lines and telecommunications.

b. Will the proposed project require the construction of any temporary detour structures? ☐ Yes ☒ No

If yes, explain:

If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.

< Form continues on back >

c. Will the proposed project require any work channels?

☐ Yes ☒ No

If yes, complete Form DCM-MP-2.

d. How will excavated or fill material be kept on site and erosion controlled?

Design Standards in Sensitive Watersheds will be adhered to throughout construction

- e. What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?
temporary work bridge, cranes, excavators, bulldozer

- f. Will wetlands be crossed in transporting equipment to project site?
☒ Yes ☐ No

If yes, explain steps that will be taken to avoid or minimize environmental impacts.

Safety fence and sediment and erosion control devices will be installed to delineate the work area and minimize environmental impacts to additional adjacent features.

- g. Will the placement of the proposed bridge or culvert require any shoreline stabilization? ☐ Yes ☒ No

If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.

September 7, 2022

Date

B-5614

Project Name

Chris Rivenbark

Applicant Name

Mark C. Rivenbark III

Applicant Signature

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MARC RECKTENWALD
Director



September 7, 2022

Mr. Jamie Lancaster, P.E.
Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Lancaster:

Subject: Mitigation Acceptance Letter:

B-5614, Replace Bridge 9 over Blounts Creek on SR 1112, Beaufort County

The purpose of this letter is to notify you that the North Carolina Department of Environmental Quality – Division of Mitigation Services (NCDEQ-DMS) will provide the wetland and buffer mitigation for the subject project. Based on the information received from you on September 6, 2022, the impacts are located in CU 03020104 of the Tar-Pamlico River basin in the Northern Outer Coastal Plain (NOCP) Eco-Region, and are as follows:

Tar-Pamlico 03010204	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres/square feet)	0	0	0	0.370	0	0	1,118.000	436.000

The impacts and associated mitigation needs were not projected by the NCDOT in the 2022 impact data. NCDEQ – DMS commits to implementing sufficient compensatory wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. **Buffer mitigation credits are not available in Tar-Pamlico 03020104 at this time. NCDEQ – DMS commits to provide buffer mitigation credits in Tar-Pamlico 03020103, 03020104, or 03020105.** If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from NCDEQ-DMS.

All buffer mitigation requests and approvals are administrated through the Riparian Restoration Buffer Fund. The NCDOT will be responsible to ensure that appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWR's Buffer Authorization Certification, DMS will transfer funds from the NCDOT 2984 Fund into the Riparian Restoration Buffer Fund. Upon completion of the transfer payment, NCDOT will have complete its riparian buffer mitigation responsibility for TIP B-5614 in Beaufort County.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

Sincerely,


for James B. Stanfill
DMS Deputy Director

cc: Mr. Monte Matthews, USACE – Raleigh
Ms. Amy Chapman, NCDWR
Mr. Brad Chilton, NCDOT – EAU
File: B-5614 Revised



North Carolina Department of Environmental Quality | Division of Mitigation Services
217 West Jones Street | 1652 Mail Service Center | Raleigh, North Carolina 27699-1652
919.707.8976



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

(Version 3.00; Released August 2021)

FOR NCDOT PROJECTS

WBS Element: 45569.1.1 TIP/Proj No: B-5614 County(ies): Beaufort Page 1 of 2

General Project Information

WBS Element:		45569.1.1	TIP Number:	B-5614		Project Type:	Bridge Replacement		Date:	3/28/2022
NCDOT Contact:		David Stutts, PE			Contractor / Designer:		Reid Robol			
	Address:	1581 Mail Service Center Raleigh, NC 27699-1581				Address:	940 Main Campus Drive, Suite 500 Raleigh, NC 27606			
	Phone:	(919) 707-6442				Phone:	(919) 829-0328			
	Email:	dstutts@ncdot.gov				Email:	rrobol@vhb.com			
City/Town:		Blounts Creek			County(ies):		Beaufort			
River Basin(s):		Tar-Pamlico			CAMA County?		Yes			
Wetlands within Project Limits?		Yes								

Project Description

Project Length (lin. miles or feet):	0.398 mi.	Surrounding Land Use:	Residential, Wooded, Agriculture				
	Proposed Project			Existing Site			
Project Built-Up Area (ac.)	1.4	ac.		1.2	ac.		
Typical Cross Section Description:	2 @ 10' lanes with 2' paved shoulders and 1' grass shoulders (road) and 2 @ 10' lanes with 5' paved shoulders (bridge)			2 @ 10' lanes with 2' paved shoulders and 1' grass shoulders			
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	< 1000	Year:	2041	Existing:	< 1000	Year: 2021

General Project Narrative:
(Description of Minimization of Water
Quality Impacts)

Project B-5614 involves the replacement of the existing NCDOT Bridge #060009 on SR 1112 over Blounts Creek in Beaufort County. Bridge #060009 is a 601.1' timber deck on I-beams crested bridge with a 15 span arrangement (14@40.0', 1@41.1') with vertical timber abutments. The proposed bridge is a 960', 63" Modified Bulb Tee design with a 8@120' span arrangement and 4'-0" end caps. According to the effective Flood Insurance Rate Map (FIRM), the study area is located in Zone AE in a Coastal Area Management Act (CAMA) county. As such, the low chord of the proposed bridge was designed to be at or higher than the low chord of the existing bridge per CAMA county requirements. There are both CAMA wetlands and 404 wetlands on the project site, impacts to these are noted on the wetland impact summary table. The project site is also subject to the Tar-Pamlico Buffer Rules and stormwater outfalls were placed outside of the buffer zones and were provided rip-rap pads to help dissipate energy and to reduce velocity at all proposed outfalls. No deck drains are required for the proposed bridge.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

WBS Element: 45569.1.1 TIP/Proj No.: B-5614 County(ies): Beaufort Page 2 of 2

General Project Information

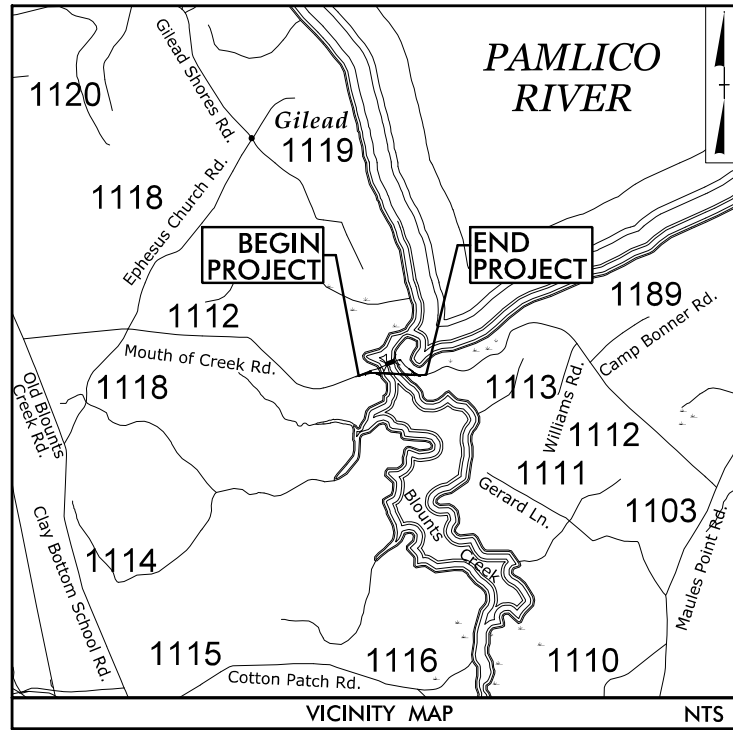
Waterbody Information

Surface Water Body (1):	Blounts Creek		NCDWR Stream Index No.:	29-9-1-(3)	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class SB		
	Supplemental Classification:		Nutrient Sensitive Waters (NSW)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	Yes	Comments:	Blounts Creek is classified as an anadromous fish spawning area		
NRTR Stream ID:			Buffer Rules in Effect:		Tar-Pamlico
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	No
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

09/28/99
I:\4:56 AM
R:\Hydraulics\PERMITS\Environmental\Drawings\B5614_Hyd-prm_wet_TSH.dgn
nblanut

TIP PROJECT: B-5614

CONTRACT:



See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BEAUFORT COUNTY

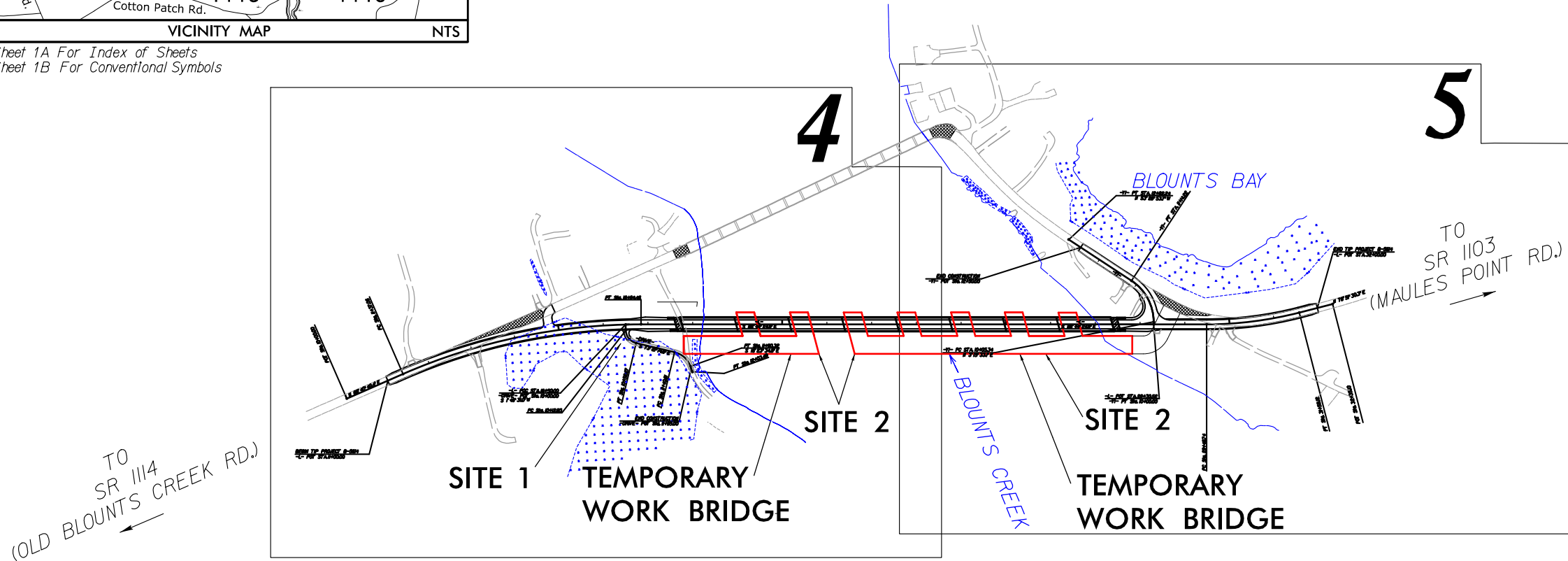
LOCATION: BRIDGE NO. 9 ON SR 1112
OVER BLOUNTS CREEK

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

WETLAND AND SURFACE WATER IMPACTS PERMIT

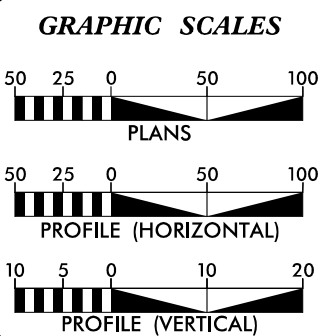
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5614	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45569.1.1	N/A	PE	

PERMIT DRAWING
SHEET 1 OF 24



CLEARING ON THIS PROJECT SHALL BE TO LIMITS ESTABLISHED USING METHOD _____.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA
2021 ADT = <1000
2041 ADT = <1000
V = 60 MPH
FUNC. CLASS. = LOCAL
SUBREGIONAL TIER

PROJECT LENGTH
LENGTH ROADWAY TIP PROJECT B-5614 = 0.218 mi.
LENGTH STRUCTURES TIP PROJECT B-5614 = 0.180 mi.
TOTAL LENGTH TIP PROJECT B-5614 = 0.398 mi.

Prepared in the Offices of:

STEWART
223 S. WEST ST., STE. 1100
RALEIGH, NC 27603
T 919.380.0760

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 19, 2020

LETTING DATE:
JUNE 15, 2021

ANDY YOUNG, PE
PROJECT ENGINEER

ROBERT WILLIAMS, PE
PROJECT DESIGN ENGINEER

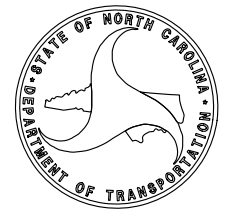
DAVID STUTTS, PE
NCDOT CONTACT

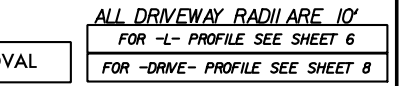
HYDRAULICS ENGINEER

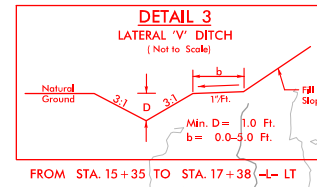
SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.







ALL DRIVEWAY RADII ARE 10'
FOR -L- PROFILE SEE SHEET 6
FOR -DRIVE- PROFILE SEE SHEET 8

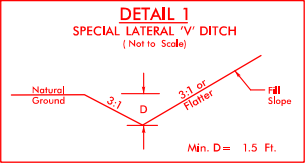
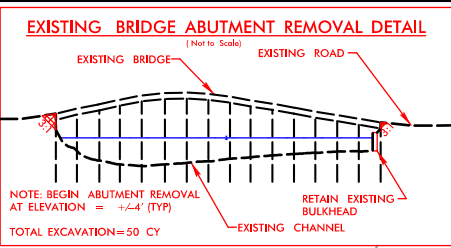
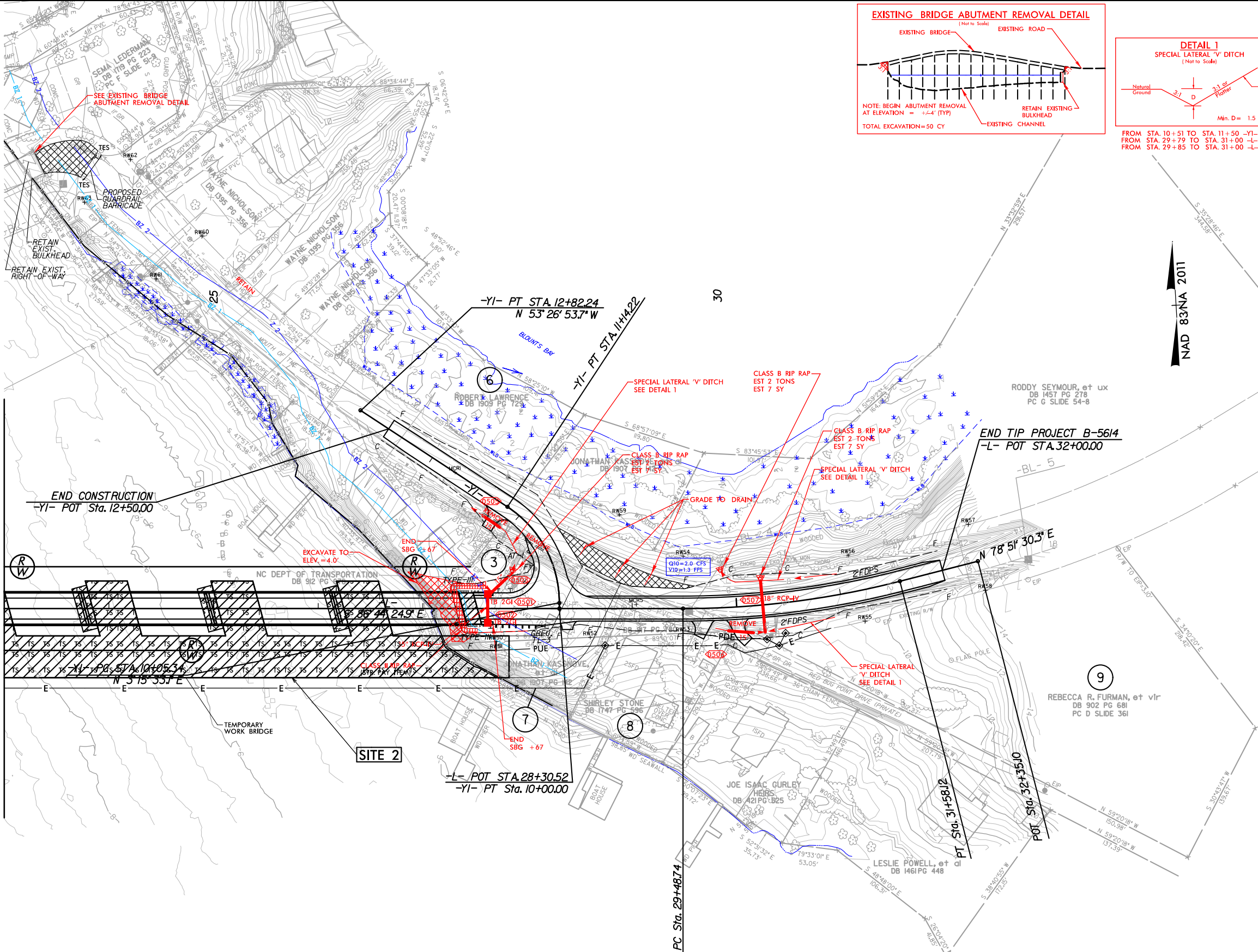


FROM STA. 10+51 TO STA. 11+50 -Y1- LT
FROM STA. 29+79 TO STA. 31+00 -L- RT
FROM STA. 29+85 TO STA. 31+00 -L- LT

8/17/99
8/12/37 AM
B:\Projects\B5614_Hyd.prm.wet_PSH05_con.dgn
B5614_Hyd.prm.wet_PSH05_con.dgn

REVISIONS

MATCHLINE -L- STA 23+00.00
SEE SHEET 04



FROM STA. 10+51 TO STA. 11+50 -YI- LT
FROM STA. 29+79 TO STA. 31+00 -L- RT
FROM STA. 29+85 TO STA. 31+00 -L- LT

PROJECT REFERENCE NO. B-5614	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
 STEWART	 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 5 OF 24

- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

PAVEMENT REMOVAL

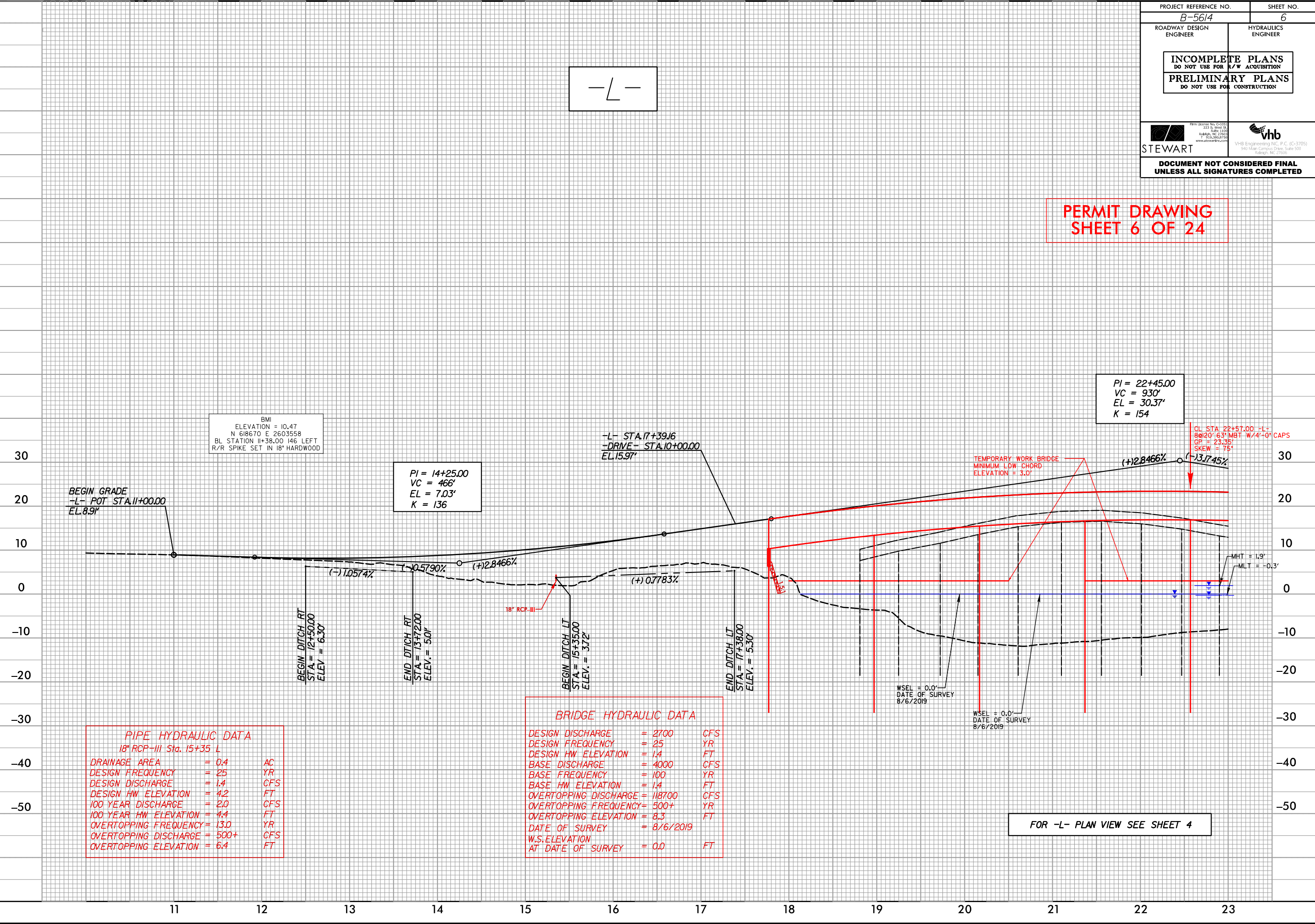
5/14/99

REVISIONS

\\0326-AM\Public\PERMITS\Environmental\Drawings\B5614_Hyd.prm-wet_PFL06.dgn

PROJECT REFERENCE NO. B-5614		SHEET NO. 6	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
 STEWART		 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27605	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

**PERMIT DRAWING
SHEET 6 OF 24**



FOR -L- PLAN VIEW SEE SHEET 4

PROJECT REFERENCE NO.
B-5614

SHEET NO.
7

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

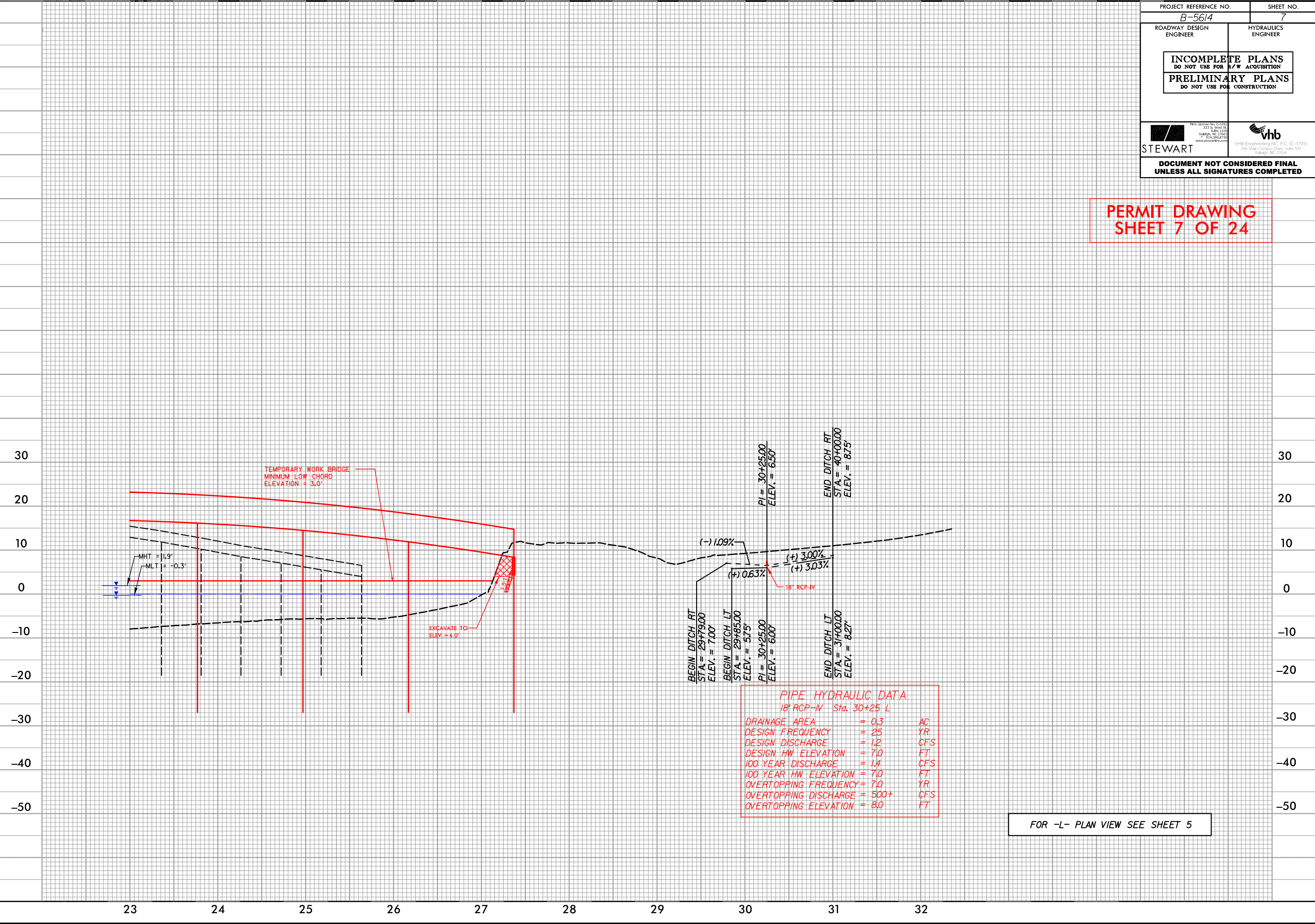
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

 STEWART
Firm License No. C-13131
223 S. West St.
Raleigh, NC 27601
T: 919-386-9799
www.stewartinc.com

 vhb
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27605

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 7 OF 24



FOR -L- PLAN VIEW SEE SHEET 5

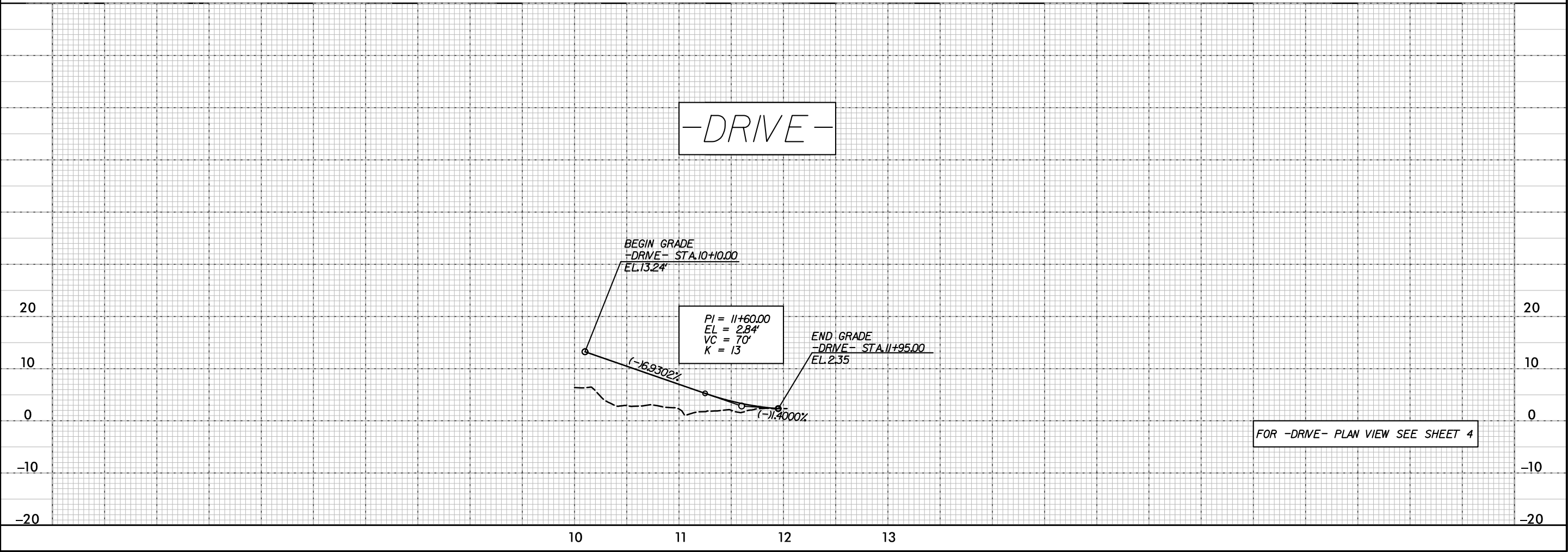
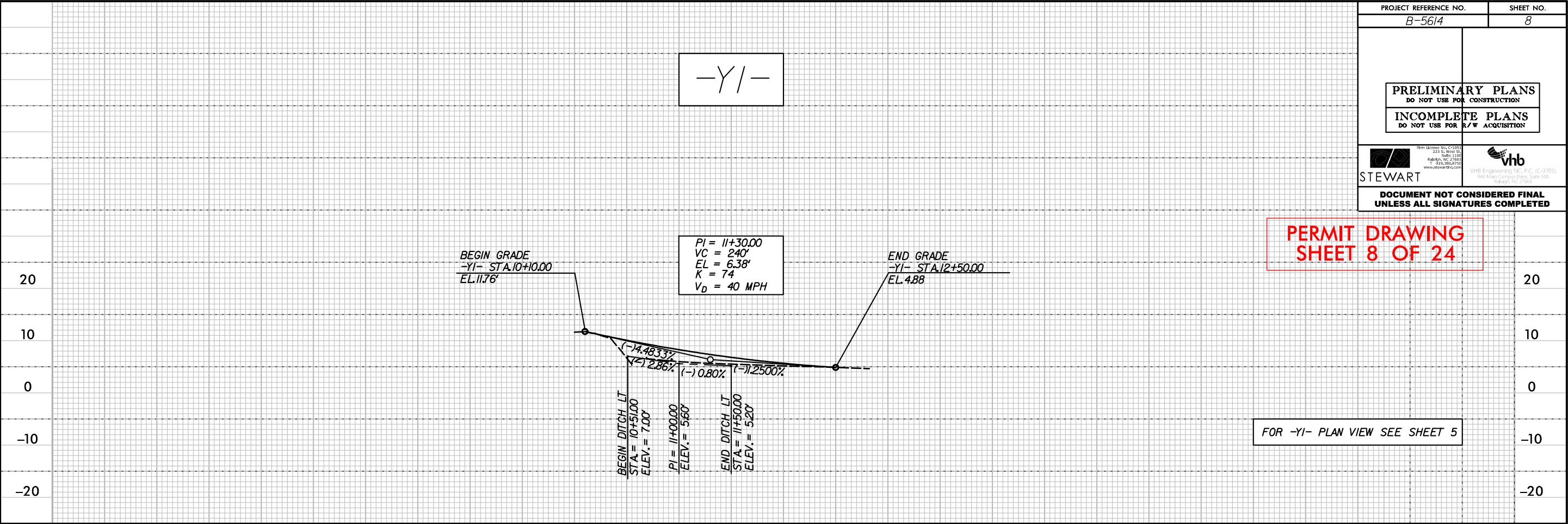
5/28/99

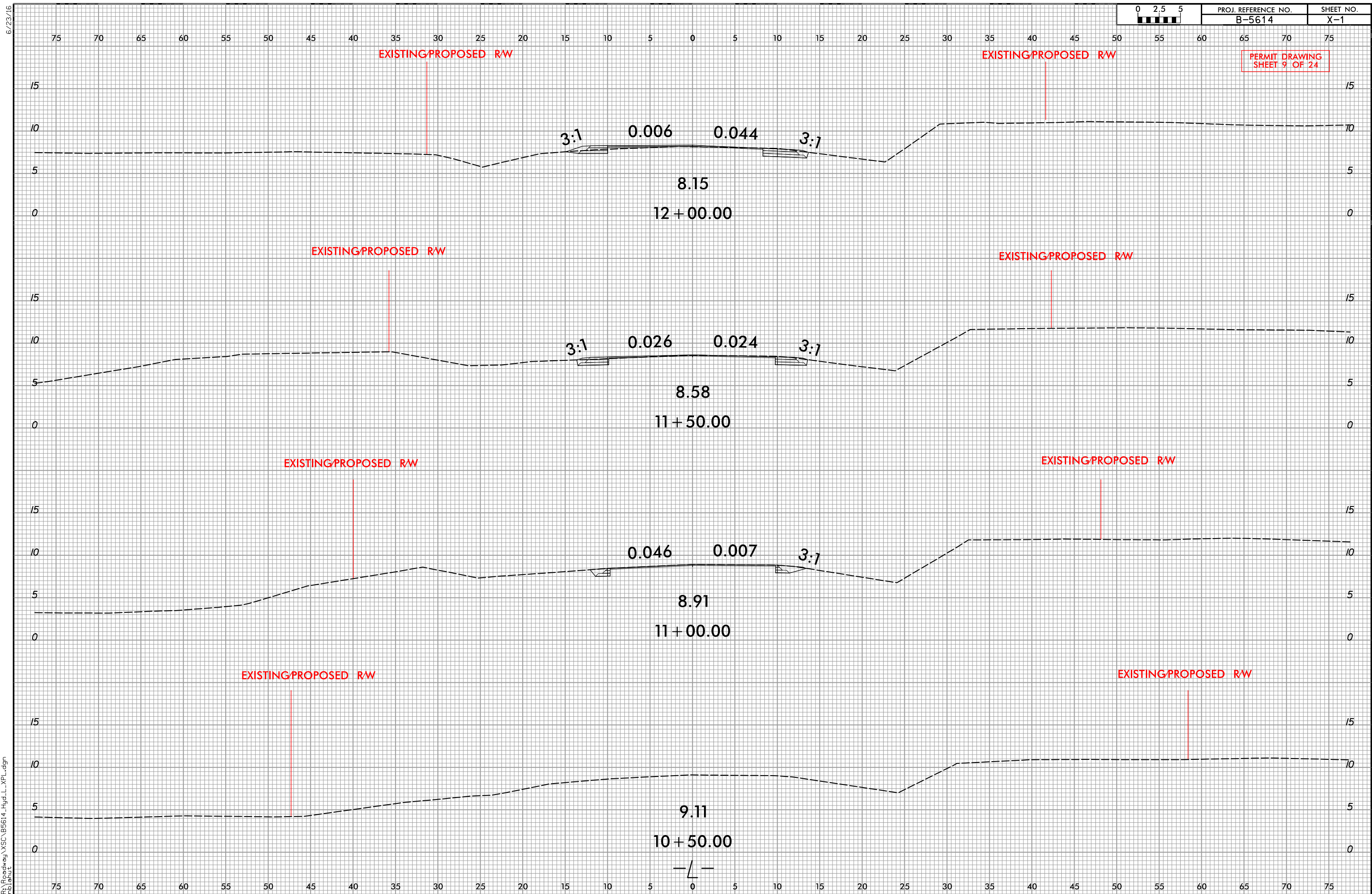
REVISIONS

8:54:49 AM
R:\Hydro-Cad\cs\PERMITS\Environmental\Drawings\B5614_Hyd.prm-wet_PFL08.dgn
chloebout

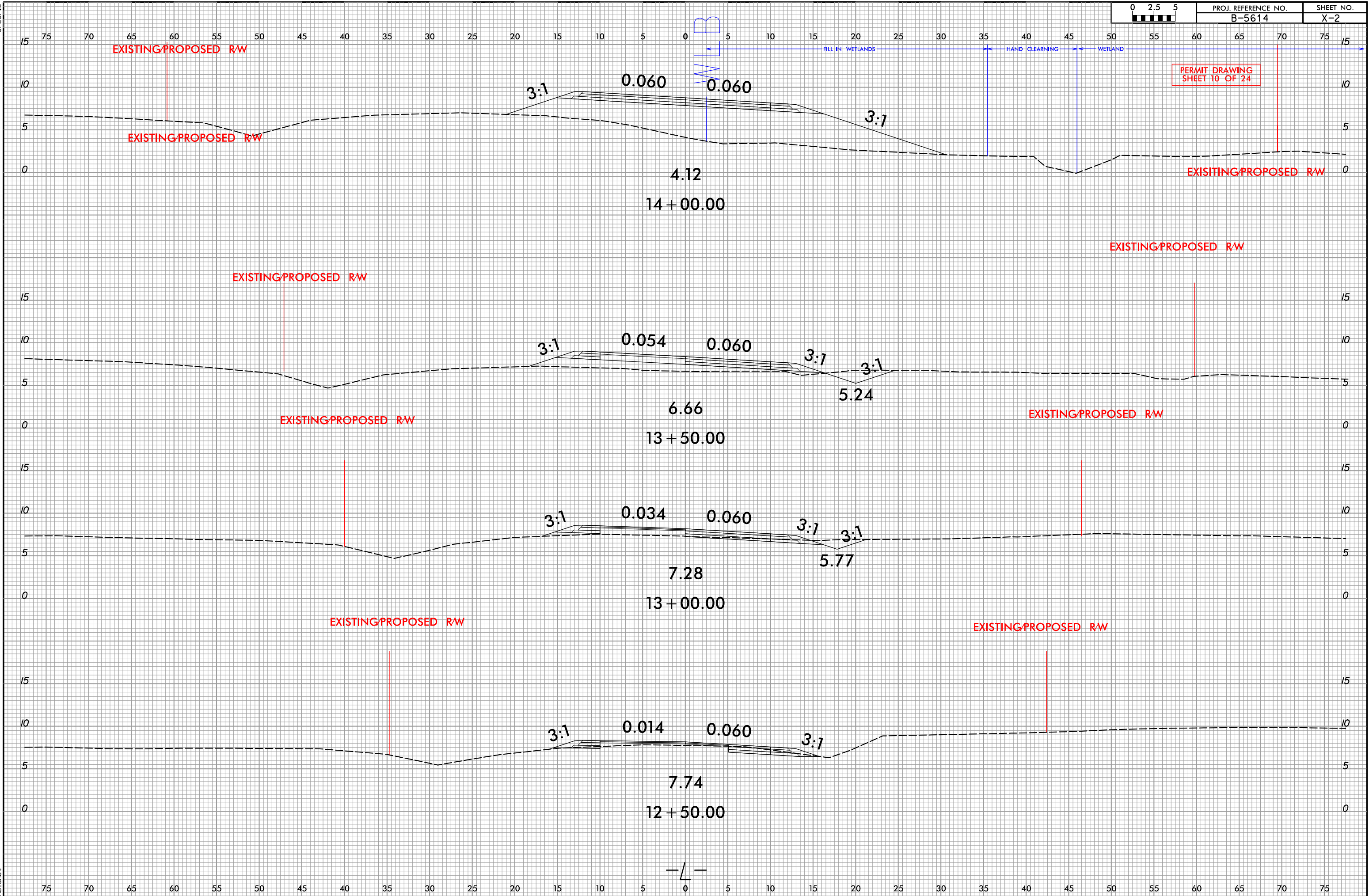
PROJECT REFERENCE NO. B-5614		SHEET NO. 8	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
 STEWART		 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27605 www.vhbnc.com	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

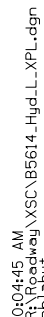
PERMIT DRAWING
SHEET 8 OF 24



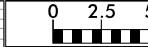


6/23/16





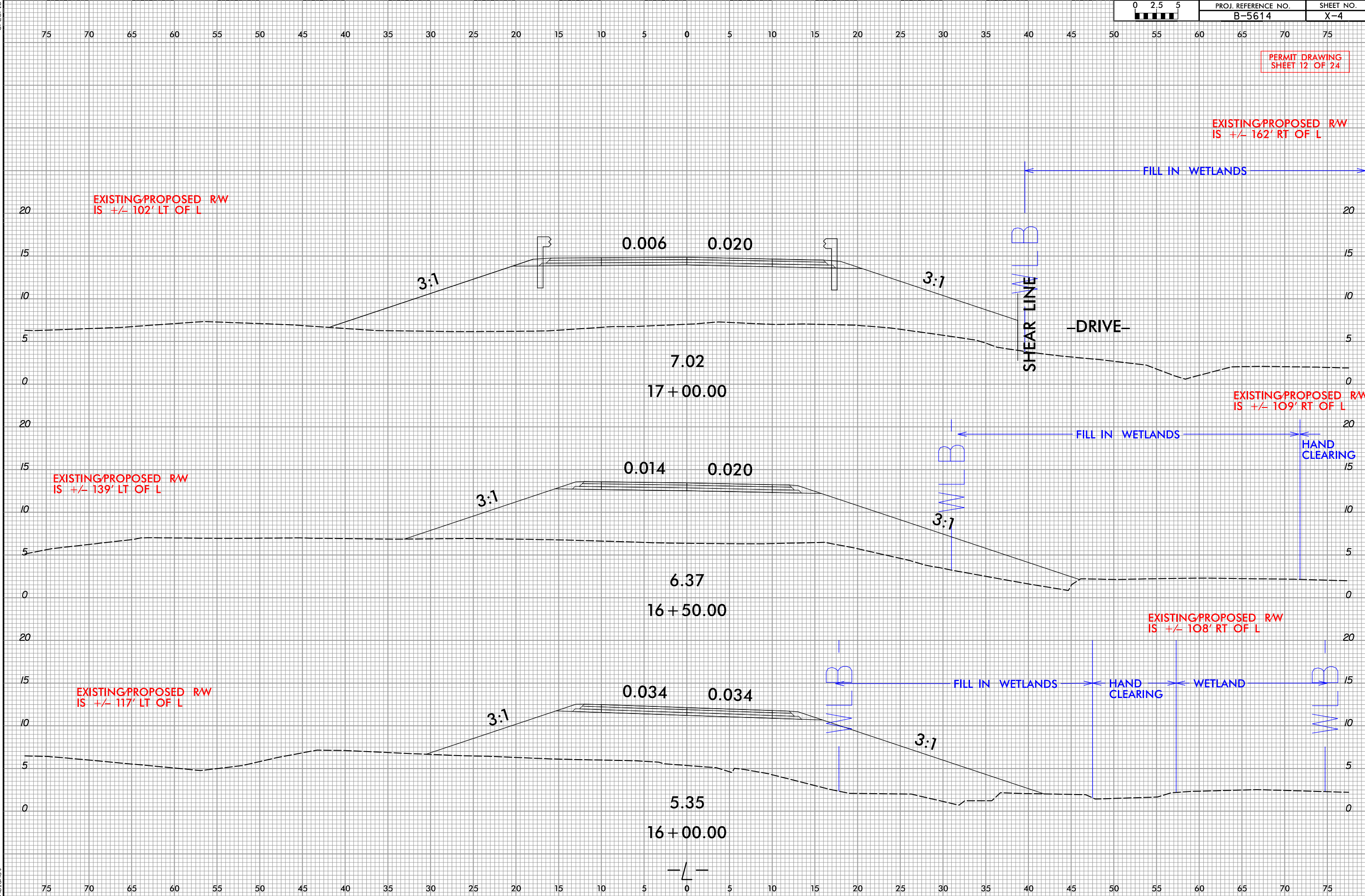
6/23/16



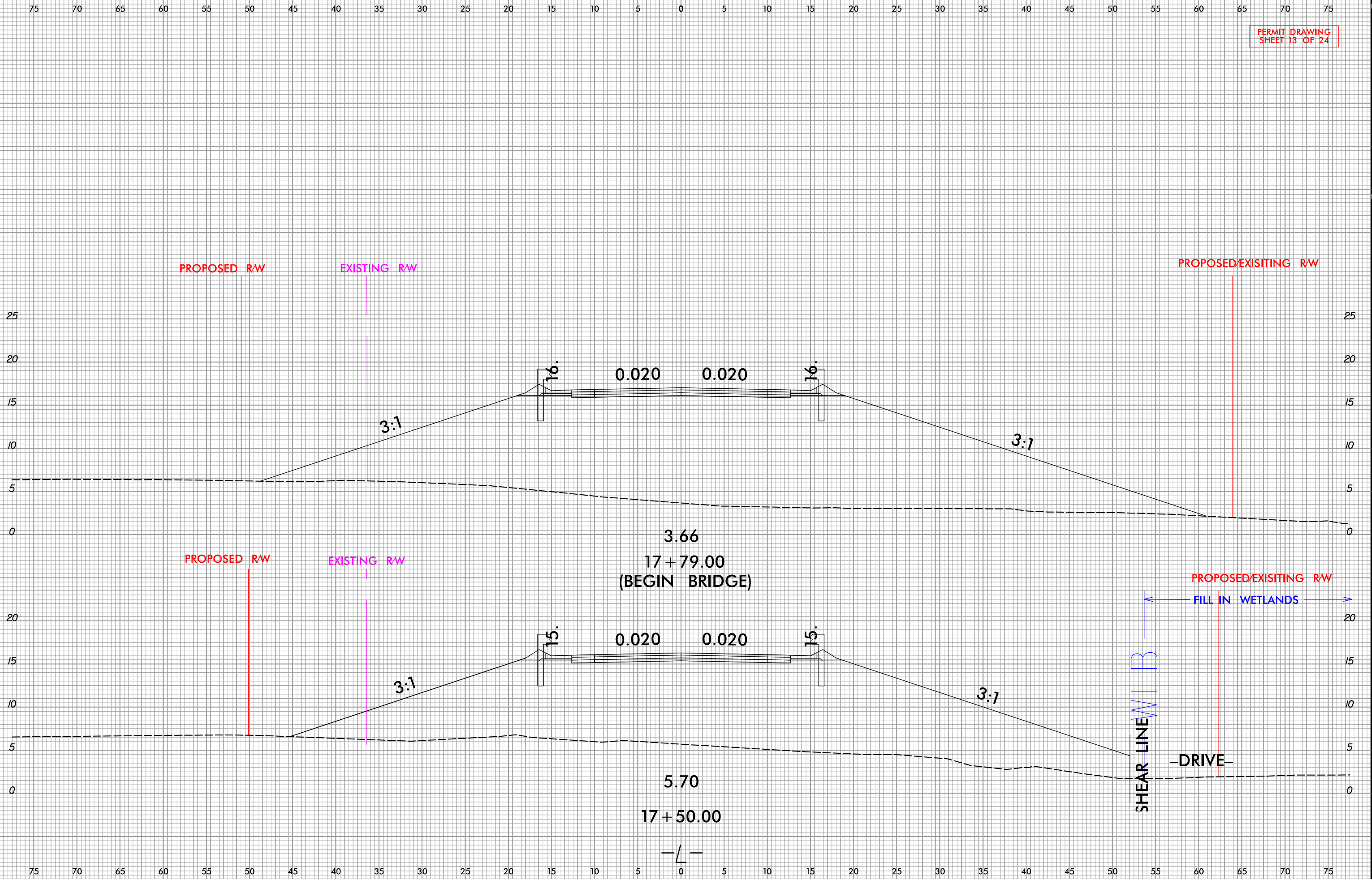
PROJ. REFERENCE NO.
B-5614

SHEET NO.
X-4

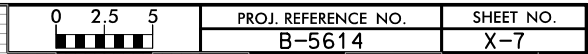
PERMIT DRAWING
SHEET 12 OF 24



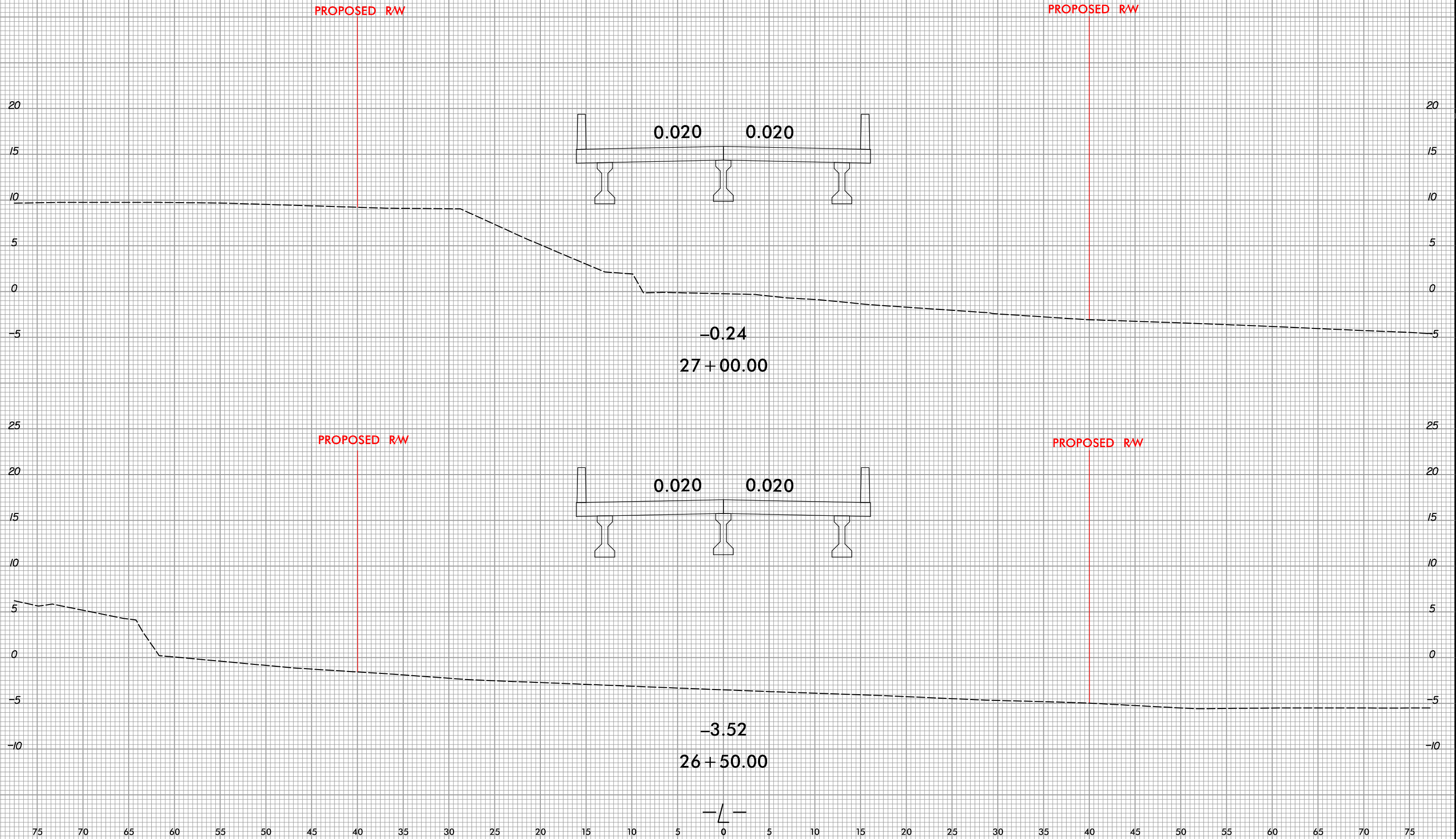
IC0417 AM
R:\Projects\B5614_Hyd.LL_XPL.dgn
nblabur

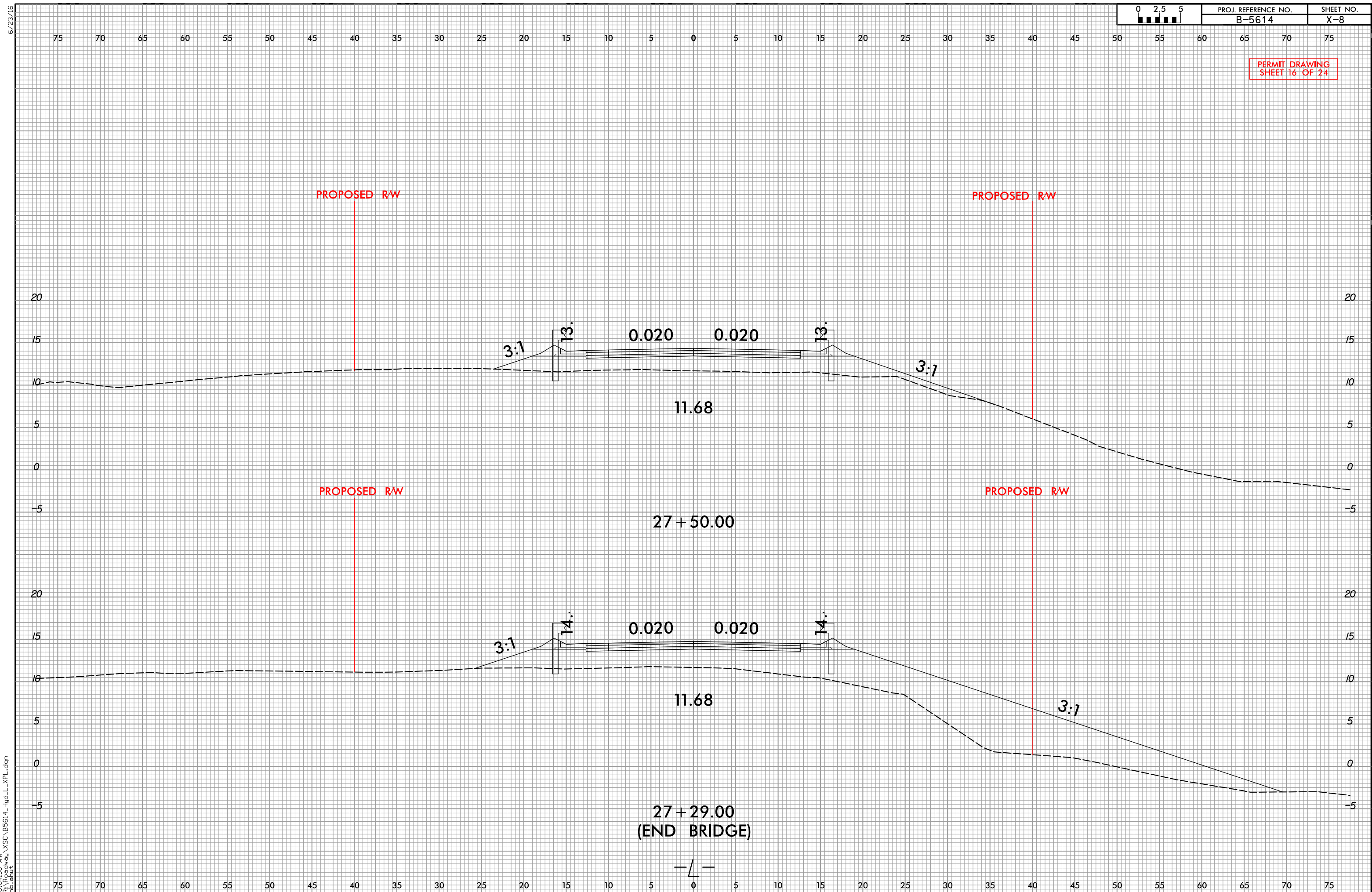


IO:04:53 AM
R:\Roadway\XSC\B5614_Hyd_L-XPL.dgn
bblahut

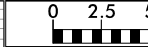


PERMIT DRAWING
SHEET 15 OF 24





6/23/16



PROJ. REFERENCE NO.
B-5614

SHEET NO.
X-9

EXISTING/PROPOSED RW

EXISTING/PROPOSED RW

PERMIT DRAWING
SHEET 17 OF 24

15

10

5

0

0.020

0.020

3:1

3:1

8.17

29 + 00.00

15

10

5

0

0.020

0.000

3:1

3:1

11.12

28 + 50.00

EXISTING RW

EXISTING/PROPOSED RW

20

15

10

5

0

-Y1-

SHEAR LINE

0.020

0.020

3:1

11.63

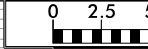
28 + 00.00

-L-

10:05:01 AM
R:\gdrive\B5614_Hyd.LL.XPL.dgn
nblabut

6/23/16

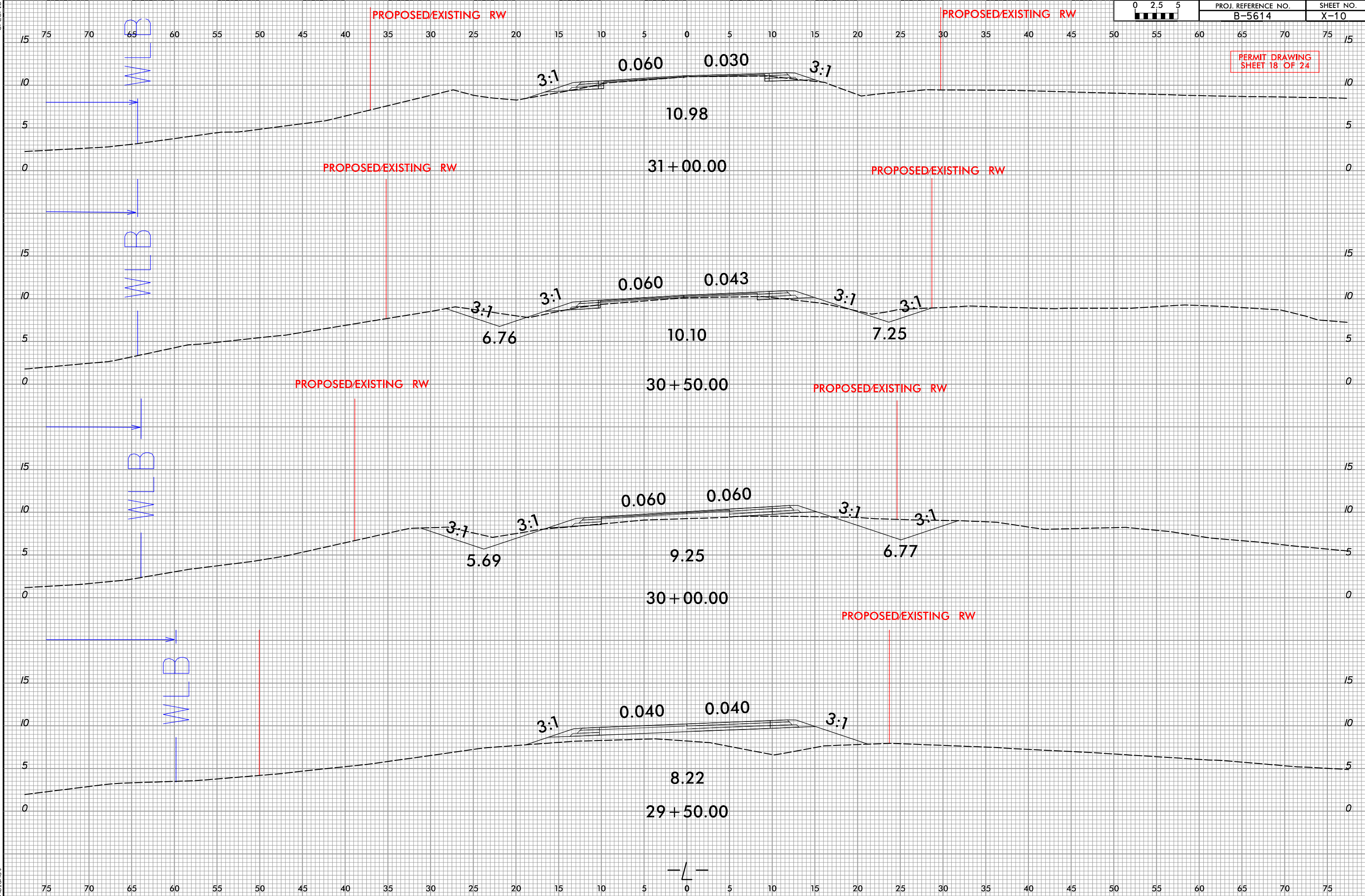
10:05:04 AM
R:\gdrived\B5614_Hyd.LL_XPL.dgn
nblabut



PROJ. REFERENCE NO.
B-5614

SHEET NO.
X-10

PERMIT DRAWING
SHEET 18 OF 24



6/23/16



PROJ. REFERENCE NO.
B-5614

SHEET NO.
X-11

PERMIT DRAWING
SHEET 19 OF 24

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

20 15 10 5 0 20 15 10 5 0

EXISTING/PROPOSED R/W

EXISTING/PROPOSED R/W

20 15 10 5 0 20 15 10 5 0

3:1

0.050

0.008

3:1

13.45

32 + 00.00

EXISTING/PROPOSED R/W

EXISTING/PROPOSED R/W

20 15 10 5 0 20 15 10 5 0

WLB

3:1

0.060

0.017

3:1

12.03

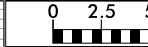
31 + 50.00

—/—

20 15 10 5 0 20 15 10 5 0

10:05:06 AM
R:\gdp\proj\B5614_Hyd.LL.XPL.dgn
nblabur

6/23/16



PROJ. REFERENCE NO.
B-5614

SHEET NO.
X-12

PERMIT DRAWING
SHEET 20 OF 24

EXIST/PROPOSED R/W

EXIST/PROPOSED R/W

WETLAND

WETLAND BOUNDARY
EXTENDS +/-120'
RT OF Y1 LINE

3:1

3:1

0.014

0.020

3:1

5.58

5.99

11+00.00

EXISTING R/W

0.020

0.020

3:1

6.66

10+50.00

EXISTING/PROPOSED R/W IS
+/- 81' RT OF Y1

EXISTING R/W

11.63

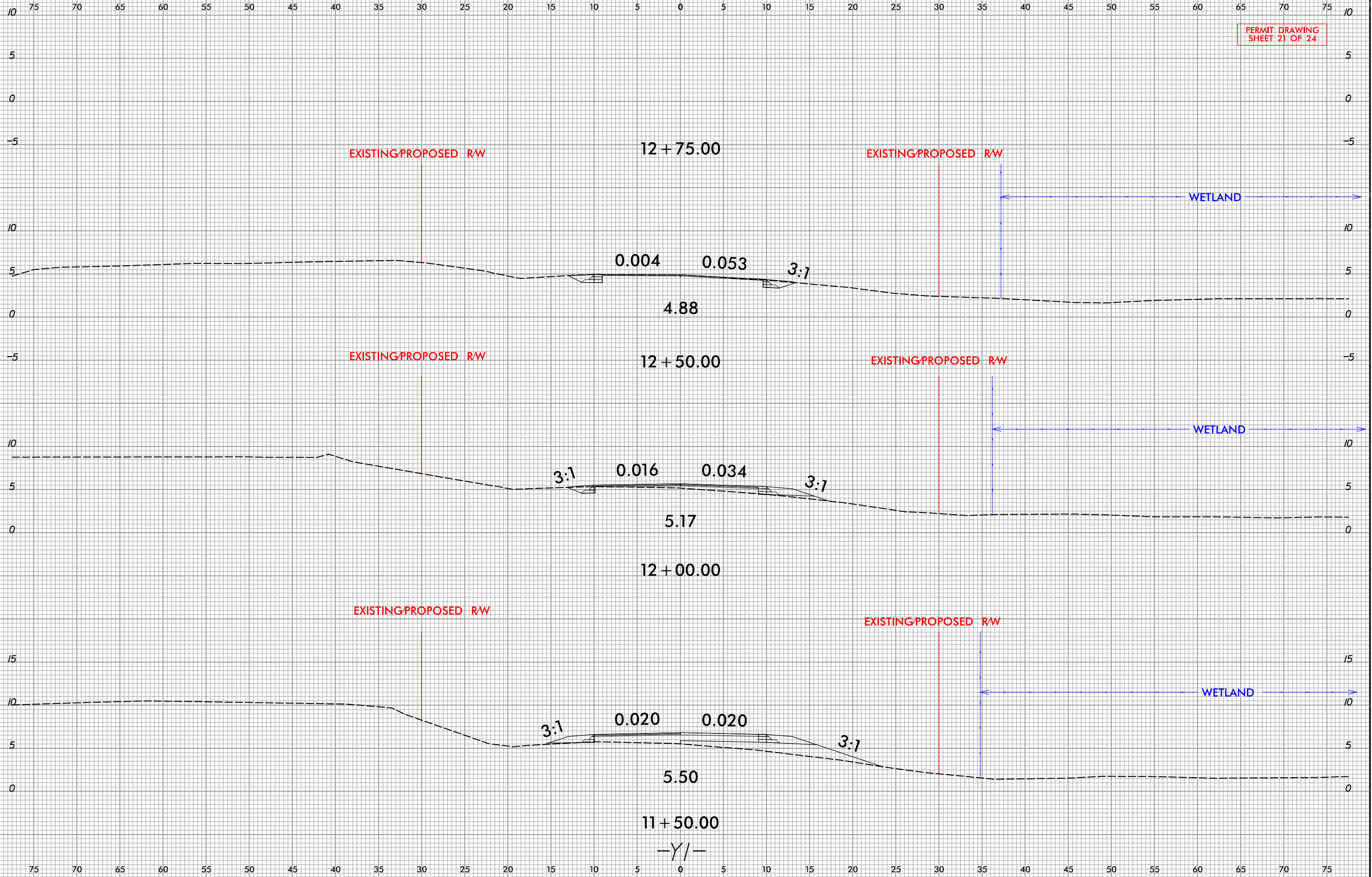
10+00.00

-Y/-

10:05:20 AM
R:\gdp\dwg\B5614_Hyd_Y1_XPL.dgn
nblabut

6/23/16

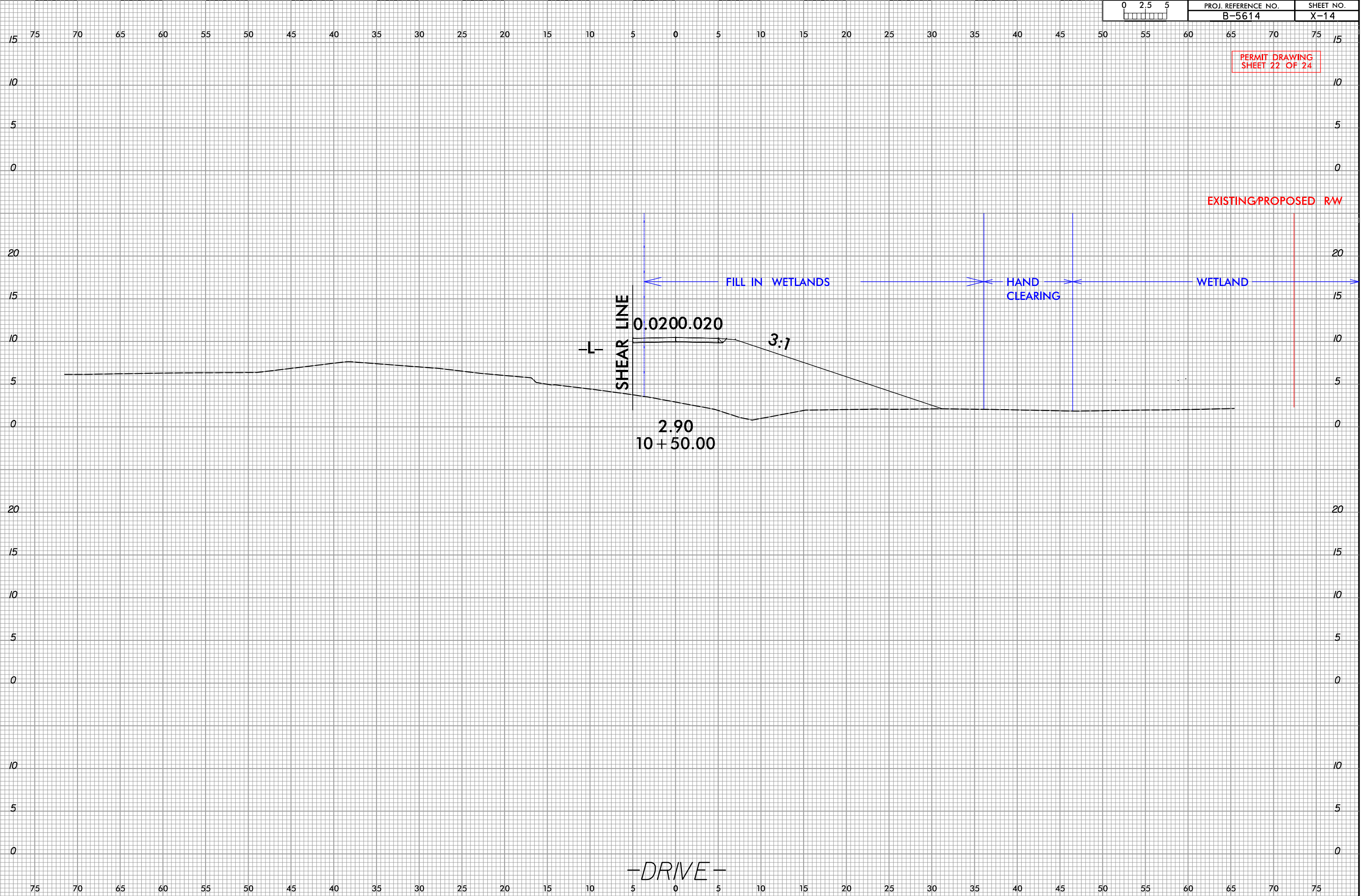
PERMIT DRAWING
SHEET 21 OF 24



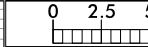
6/23/16

PERMIT DRAWING
SHEET 22 OF 24

EXISTING/PROPOSED RW



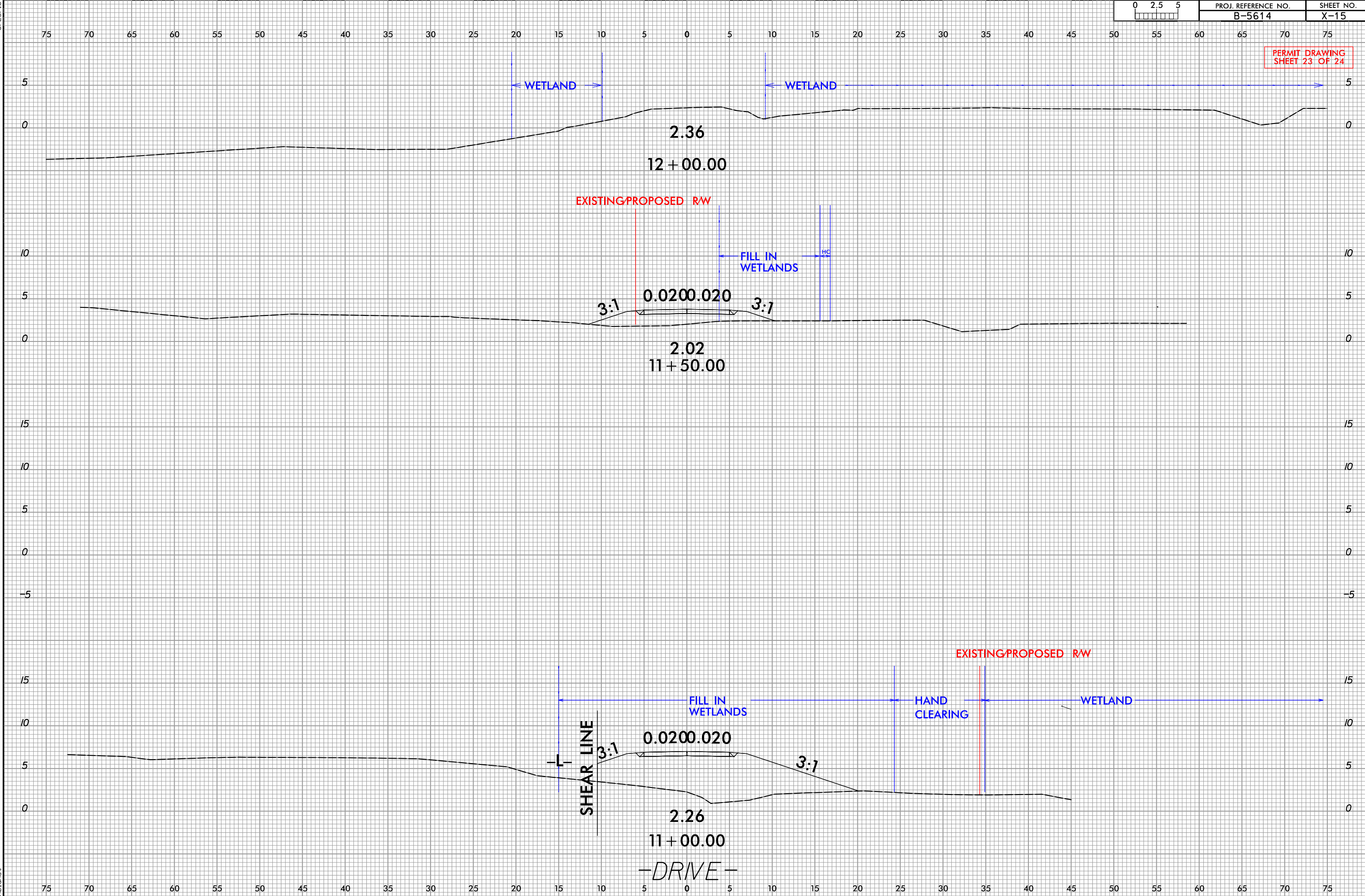
6/23/16



PROJ. REFERENCE NO.
B-5614

SHEET NO.
X-15

PERMIT DRAWING
SHEET 23 OF 24



WETLAND AND SURFACE WATER IMPACTS SUMMARY

			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	-L- 13+71/17+88	Fill (404 Wetlands)	0.37				0.08					
2	-L- 17+99/27+71	Temporary Work Bridge (CAMA Wetlands)		< 0.01			< 0.01		1.11			
2	-L- 17+99/27+71	Proposed Bridge Bents						0.02	0.08	33	65	
TOTALS*:			0.37	< 0.01			0.08	0.02	1.19	33	65	0

*Rounded totals are sum of actual impacts

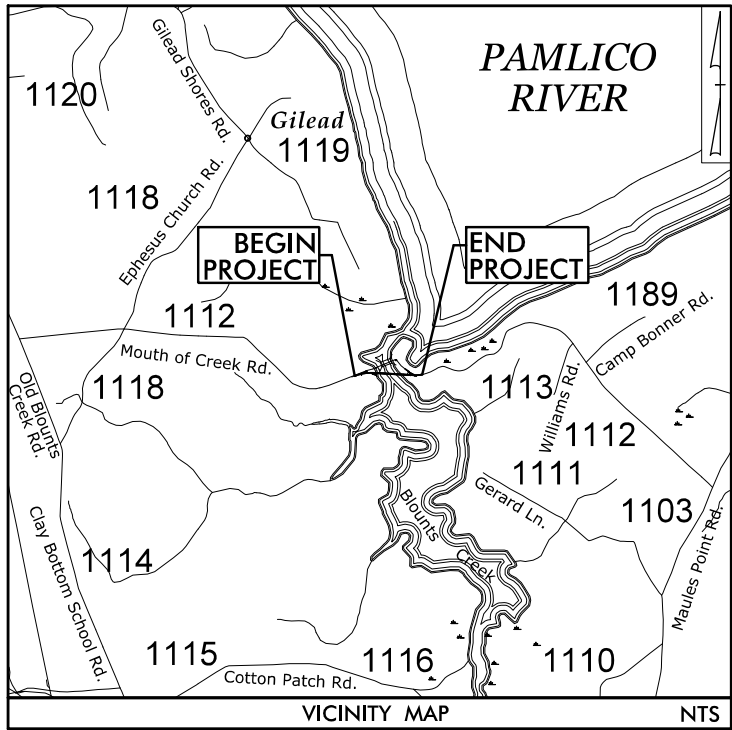
NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08/29/22
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 24 OF 24

09/28/99
12:57:29 PM
R:\Hydraulics\PERMITS-Environmental\Drawings\B5614_Hyd_prm_buf_TSH.dgn
nblanuf

TIP PROJECT: B-5614

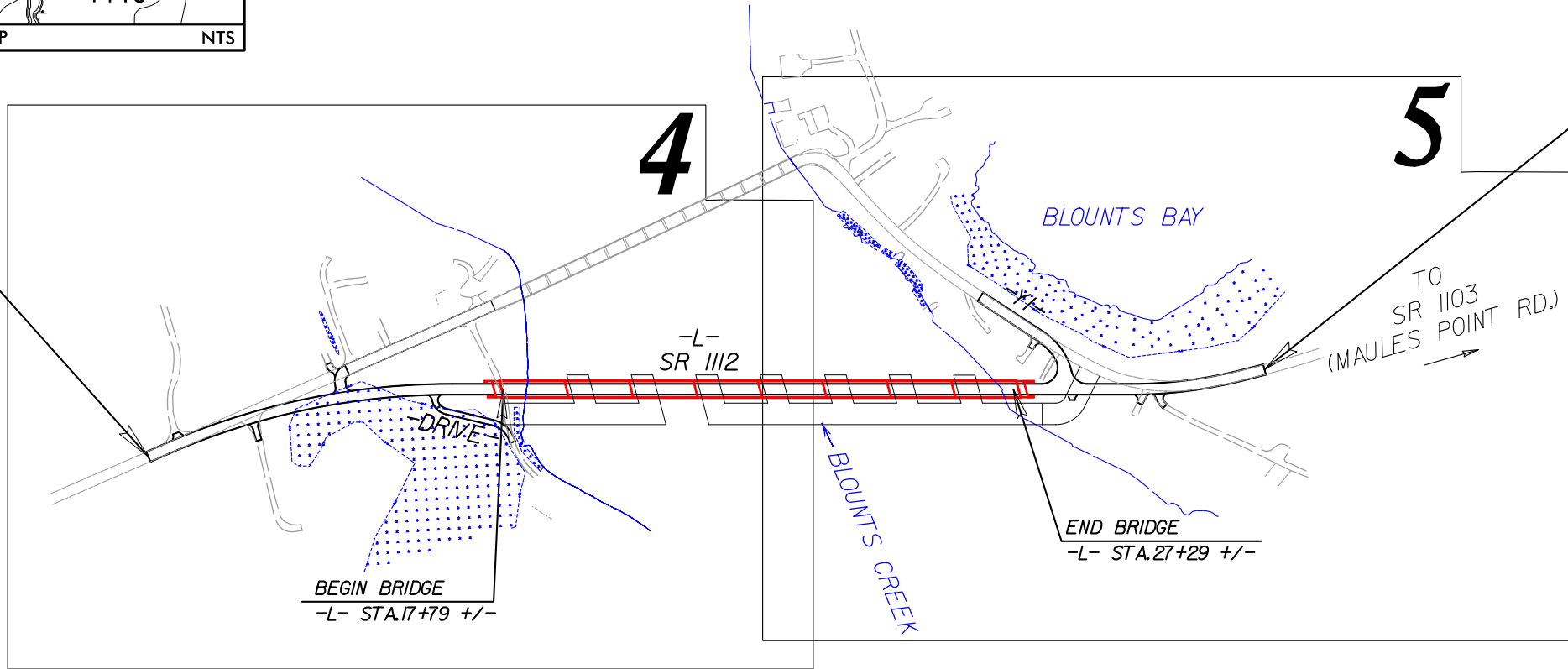
CONTRACT:



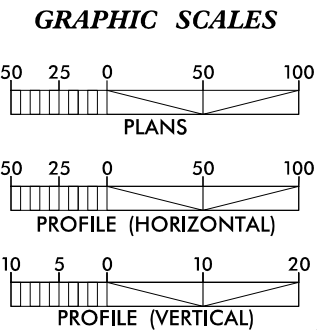
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

BEGIN TIP PROJECT B-5614
-L- STA.11+00.00

TO
SR 1114
(OLD BLOUNTS CREEK RD.)



CLEARING ON THIS PROJECT SHALL BE TO LIMITS ESTABLISHED USING METHOD _____.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.



DESIGN DATA
2021 ADT = <1000
2041 ADT = <1000
V = 60 MPH

FUNC. CLASS. = LOCAL
SUBREGIONAL TIER

PROJECT LENGTH
LENGTH ROADWAY TIP PROJECT B-5614 = 0.218 mi.
LENGTH STRUCTURES TIP PROJECT B-5614 = 0.180 mi.
TOTAL LENGTH TIP PROJECT B-5614 = 0.398 mi.

Prepared in the Offices of:

STEWART
223 S. WEST ST., STE. 1100
RALEIGH, NC 27603
T 919.380.8050

VHB
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 19, 2020

LETTING DATE:
JUNE 15, 2021

ANDY YOUNG, PE
PROJECT ENGINEER

ROBERT WILLIAMS, PE
PROJECT DESIGN ENGINEER

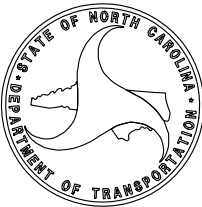
DAVID STUTTS, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

LOCATION: BRIDGE NO. 9 ON SR 1112
OVER BLOUNTS CREEK

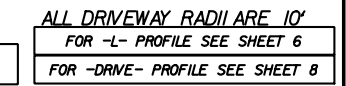
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

BUFFER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5614	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45569.1.1	N/A	PE	

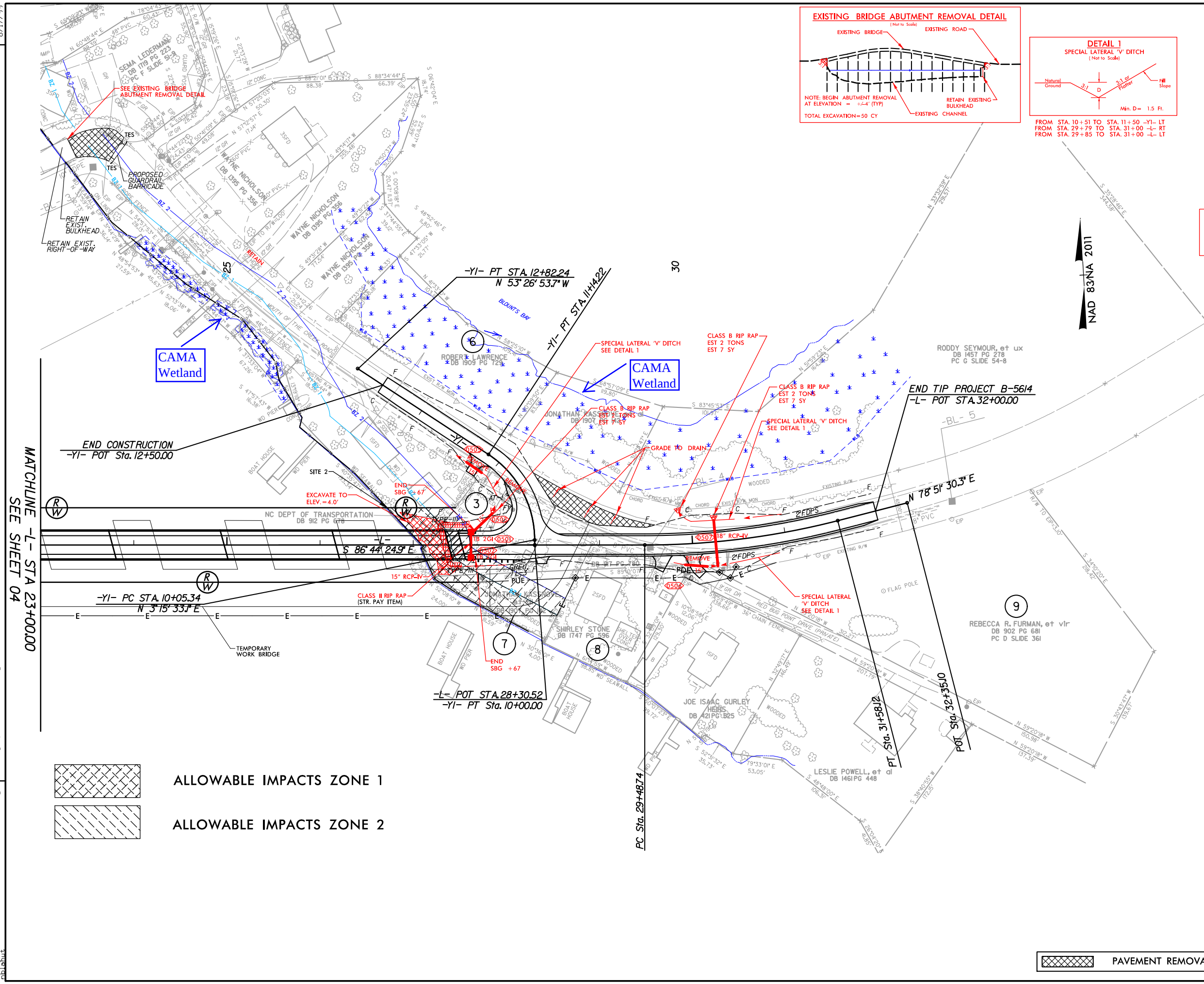
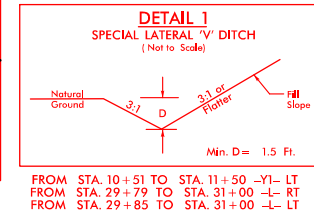
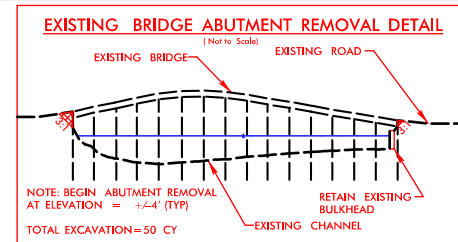
BUFFER DRAWING
SHEET 1 OF 5





2/24/20 PM R:\Hydraulics\PERMITS.Environmental\Drawings\B5614_Hyd.prm_buf_PSH04.dgn B5614	8/17/99
---	---------

**BUFFER DRAWING
SHEET 3 OF 5**



 PAVEMENT REMOVAL

RIPARIAN BUFFER IMPACTS SUMMARY

			IMPACTS									BUFFER REPLACEMENT	
Site No.	Station (From/To)	Structure Size / Type	TYPE			ALLOWABLE			MITIGABLE				
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)
1	-L- 17+53/18+04	Bridge		X		2700	1883	4583					
1	-DRIVE- 11+45 to 12+04	Existing Driveway Refurbishing	X			551		551					
1	-DRIVE- 11+45 to 12+04	Proposed Driveway Relocation	X						1341	856	2197		
2	-L- 26+72/27+86	Bridge		X		5504	3540	9044					
TOTALS*:						8755	5423	14178	1341	856	2197	0	0

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

06/03/22
BEAUFORT COUNTY
B-5614
45569.1.1

SHEET 4 OF 5

WETLANDS IN BUFFER IMPACTS SUMMARY

SITE NO.	STATION (FROM/TO)		WETLANDS IN BUFFERS	
			ZONE 1 (ft ²)	ZONE 2 (ft ²)
1	-L- 17+99/18+02	Bridge	19	
1	-DRIVE- 11+45/12+04	Proposed Driveway Relocation	223	420
TOTAL:			242	420

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 06/03/22
 BEAUFORT COUNTY
 B-5614
 45569.1.1
 SHEET 5 OF 5



VHB Engineering NC, P.C.

B-5614

Utilities Narrative

July 28th, 2022

COUNTY: BEAUFORT

STIP: B-5614

DESCRIPTION: Project B-5614 involves the replacement of the existing NCDOT Bridge #060009 on SR 1112 over Blounts Creek in Beaufort County.

The utility conflicts for the subject NCDOT Project are listed below:

TIDELAND EMC AND LUMEN – POWER LINES AND TELEPHONE CABLES

Plans include the construction of Tideland EMC temporary and permanent overhead power lines and Lumen underground telephone cables. The proposed temporary overhead powerline, which is located from -L- station 11+97 to 17+92 LT will require less than .01 AC of hand clearing in wetlands. The proposed permanent overhead power lines from -L- 12+02 to 17+91 RT will require 0.14 AC of hand clearing in wetlands. A portion of this hand clearing is in buffer zones; it will result in 203 SF of impact in Buffer Zone one and 105 SF of impact in Buffer Zone two. These proposed power lines and telephone cables will also create additional buffer impacts due to trenching operations from -L- 17+62 to 18+12 LT. Trenching work will require 834 SF of impact in Buffer Zone one, and 197 SF in Buffer Zone 2.

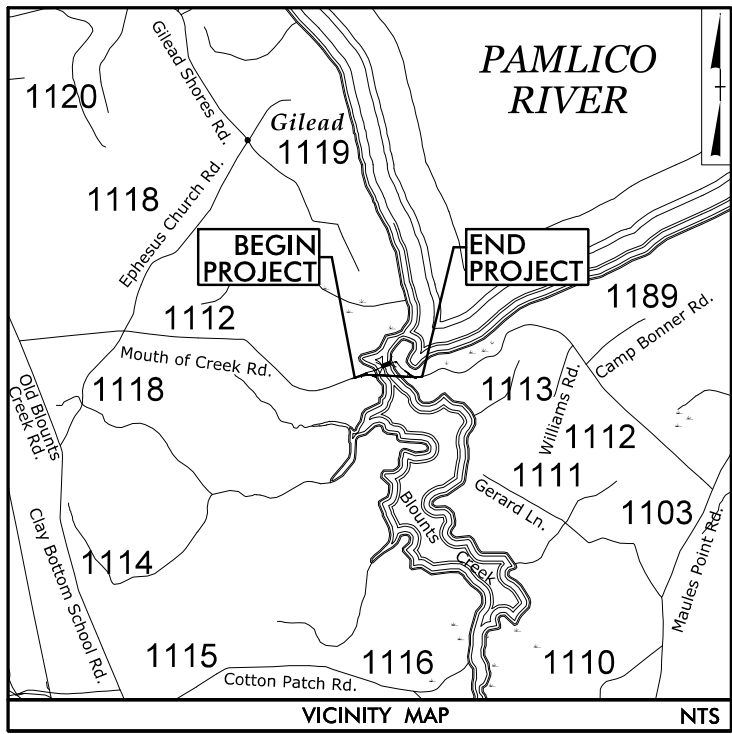
BEAUFORT COUNTY WATER

According to the utility coordination, two 8" water lines will be relocated on both sides of the proposed bridge from station -WL- 5+10 to 8+73 and station -WL2- 5+00 to 8+77. The existing waterlines within these limits will be abandoned. The proposed waterlines will not create additional wetland or buffer impacts outside of impacts covered in the Bridge Replacement environmental permit.

09/08/99
I:\34:02 AM
R:\Hydro\audios\PERMITS_Environmental\Drawings\utility Impacts\B5614_Hyd_prm_power_TSH.dgn
nblanut

TIP PROJECT: B-5614

CONTRACT:



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY ENVIRONMENTAL PERMIT DRAWING

LOCATION: BRIDGE NO. 9 ON SR 1112
OVER BLOUNTS CREEK

TYPE OF WORK: TELECOMMUNICATIONS, POWER RELOCATION,
AND WATERLINE RELOCATION

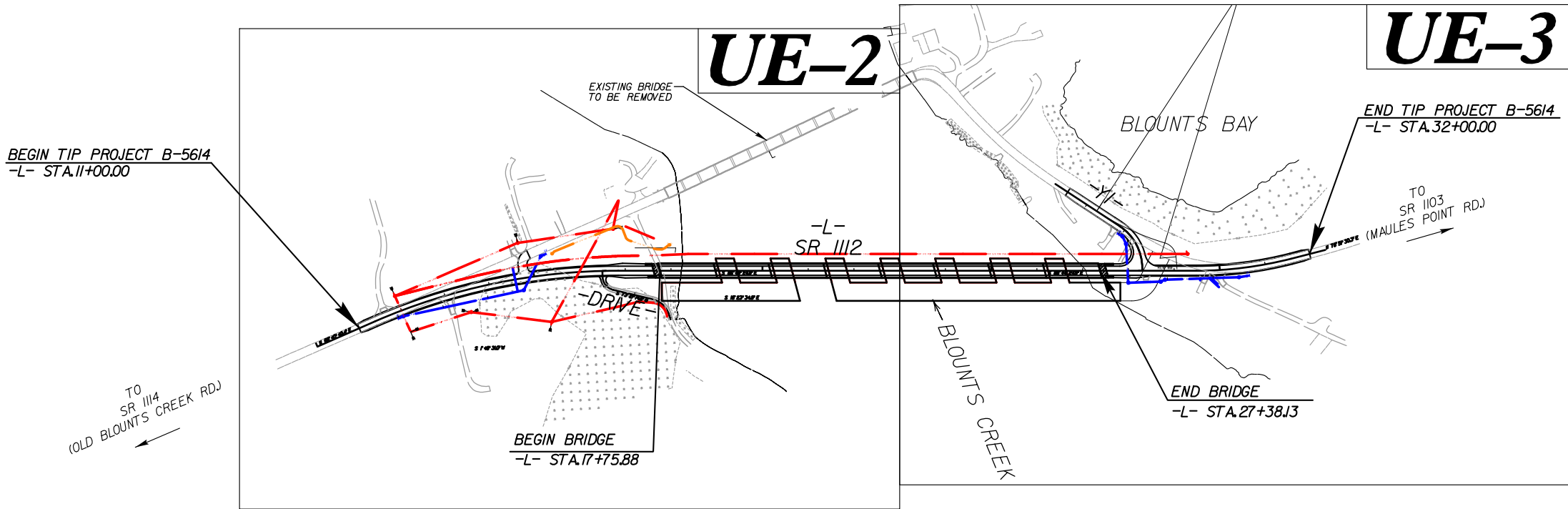
WETLAND AND SURFACE WATER IMPACTS PERMIT



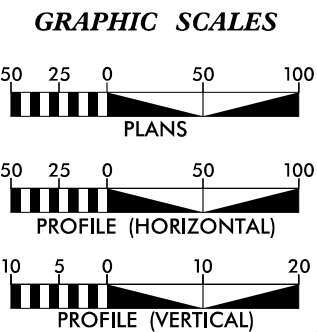
TIP NO.	SHEET NO.
B-5614	UE-1

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 1 OF 11



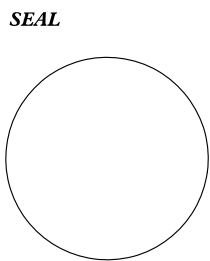
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



SHEET NO.	DESCRIPTION
UE-1	WETLAND IMPACT TITLE SHEET
UE-2 through UE-5	UTILITY WETLAND IMPACTS
UE-6	WATER PROFILE SHEET
UE-7	POWER BORE PLAN AND PROFILE SHEET
UE-8 through UE-10	POWER PROFILE SHEET

UTILITY OWNERS ON PROJECT
(A) LUMEN (CENTURY LINK) - TELECOMMUNICATIONS
(B) TIDELAND EMC - POWER
WATER AND SEWER OWNERS ON PROJECT
(A) WATER - BEAUFORT COUNTY

Prepared in the Offices of:	
STEWART 223 S. WEST ST., STE. 1100 RALEIGH, NC 27603 T 919.380.8750	vhb VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606
MICHAEL BURNS, PE	PROJECT ENGINEER
JOSHUA ROEMER	PROJECT DESIGN ENGINEER



DIVISION OF HIGHWAYS UTILITIES UNIT 155 MAIL SERVICES CENTER RALEIGH, NC 27699-1555 PHONE (919) 707-6690 FAX (919) 250-4151	
NABIL HAMDAN	UTILITIES REGIONAL ENGINEER
TYRON W. STALLINGS	UTILITIES ENGINEER
TANGA SAMPSON	UTILITIES AREA COORDINATOR
TYRON W. STALLINGS	UTILITIES COORDINATOR

5/14/99
REVISED
11:34:39 AM
B:\3439\GIS\PERMITS\Environmental\Drawings\utility_impacts\B5614_Hyd.prm-power_PSH04.dgn

PROJECT REFERENCE NO.	SHEET NO.
B-5614	UE-2
THIS SHEET CORRESPONDS TO RDY-4	

UTILITIES BY OTHERS/UTILITY CONSTRUCTION

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



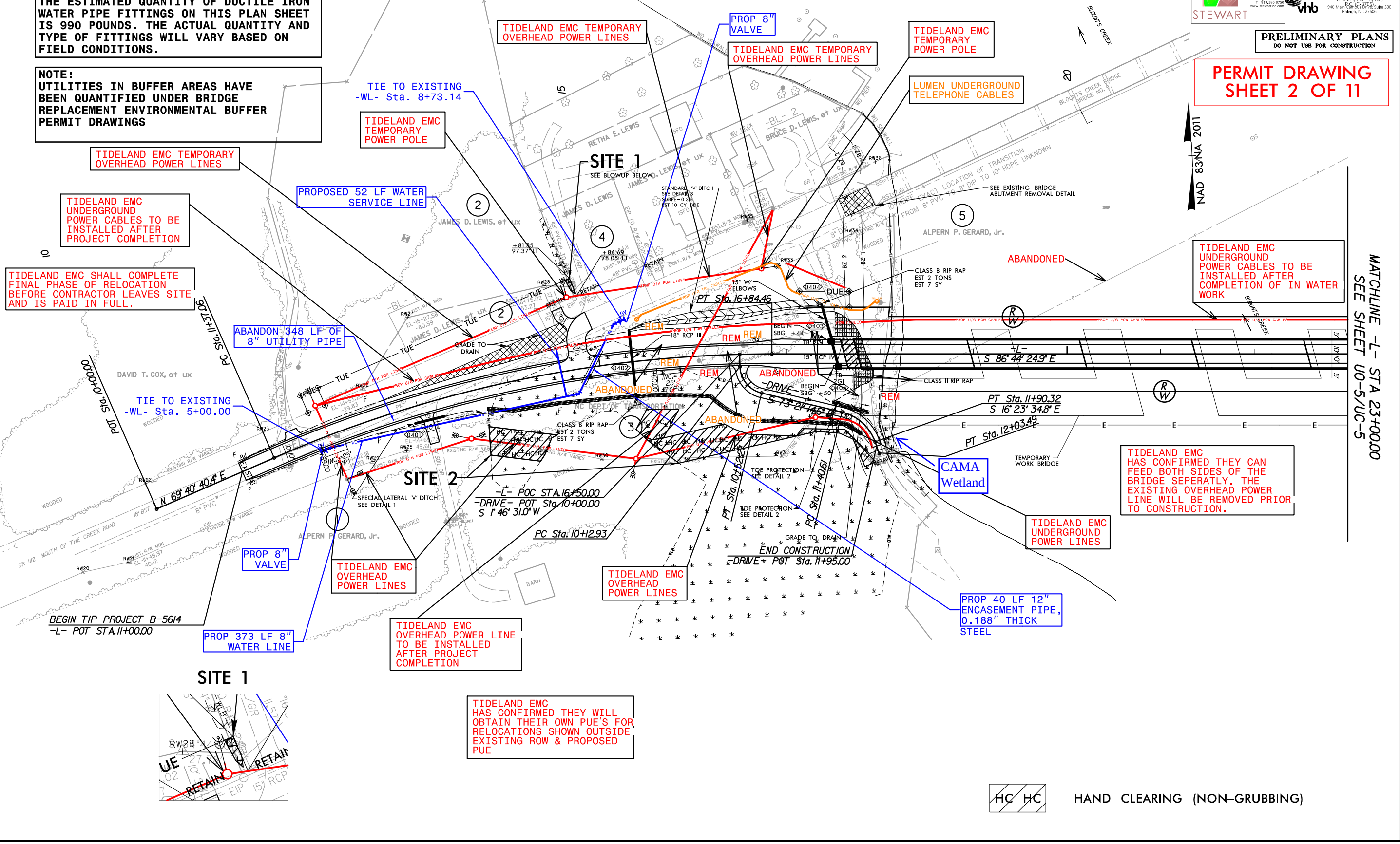
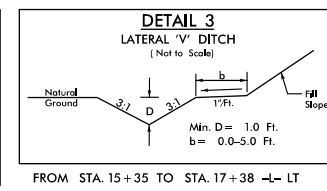
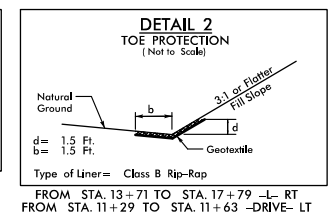
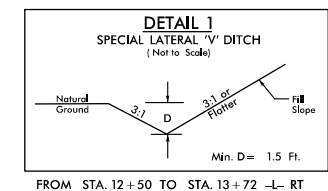
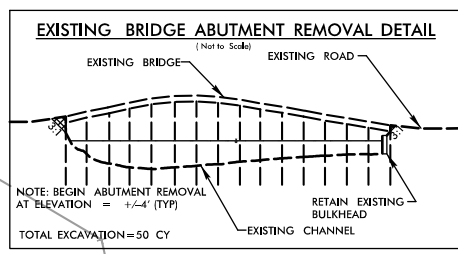
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 2 OF 11

NOTE:
CONTRACTOR IS REQUIRED TO ENSURE ALL
BENDS UTILIZE JOINT RESTRAINTS.

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 990 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

NOTE:
UTILITIES IN BUFFER AREAS HAVE
BEEN QUANTIFIED UNDER BRIDGE
REPLACEMENT ENVIRONMENTAL BUFFER
PERMIT DRAWINGS



TIDELAND EMC SHALL COMPLETE
FINAL PHASE OF RELOCATION
BEFORE CONTRACTOR LEAVES SITE
AND IS PAID IN FULL.

TIDELAND EMC TEMPORARY
OVERHEAD POWER LINES

TIDELAND EMC
UNDERGROUND
POWER CABLES TO BE
INSTALLED AFTER
PROJECT COMPLETION

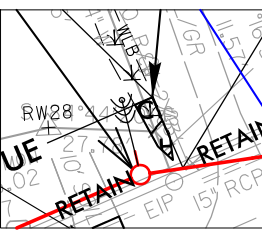
ABANDON 348 LF OF
8" UTILITY PIPE

TIE TO EXISTING
-WL- Sta. 5+00.00

PROP 8" VALVE

PROP 373 LF 8" WATER LINE

SITE 1



TIDELAND EMC
TEMPORARY
POWER POLE

TIE TO EXISTING
-WL- Sta. 8+73.14

TIDELAND EMC TEMPORARY
OVERHEAD POWER LINES

PROP 8" VALVE

TIDELAND EMC TEMPORARY
OVERHEAD POWER LINES

TIDELAND EMC
TEMPORARY
POWER POLE

LUMEN UNDERGROUND
TELEPHONE CABLES

TIDELAND EMC
UNDERGROUND
POWER CABLES TO BE
INSTALLED AFTER
COMPLETION OF IN WATER
WORK

TIDELAND EMC
HAS CONFIRMED THEY CAN
FEED BOTH SIDES OF THE
BRIDGE SEPERATLY. THE
EXISTING OVERHEAD POWER
LINE WILL BE REMOVED PRIOR
TO CONSTRUCTION.

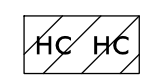
TIDELAND EMC
UNDERGROUND
POWER LINES

PROP 40 LF 12" ENCASEMENT PIPE,
0.188" THICK
STEEL

TIDELAND EMC
OVERHEAD
POWER LINES

TIDELAND EMC
OVERHEAD POWER LINE
TO BE INSTALLED
AFTER PROJECT
COMPLETION

TIDELAND EMC
HAS CONFIRMED THEY WILL
OBTAIN THEIR OWN PUE'S FOR
RELOCATIONS SHOWN OUTSIDE
EXISTING ROW & PROPOSED
PUE



HAND CLEARING (NON-GRUBBING)

MATCHLINE -L- STA 23+00.00
SEE SHEET UO-5/UC-5

UTILITIES BY OTHERS/UTILITY CONSTRUCTION

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



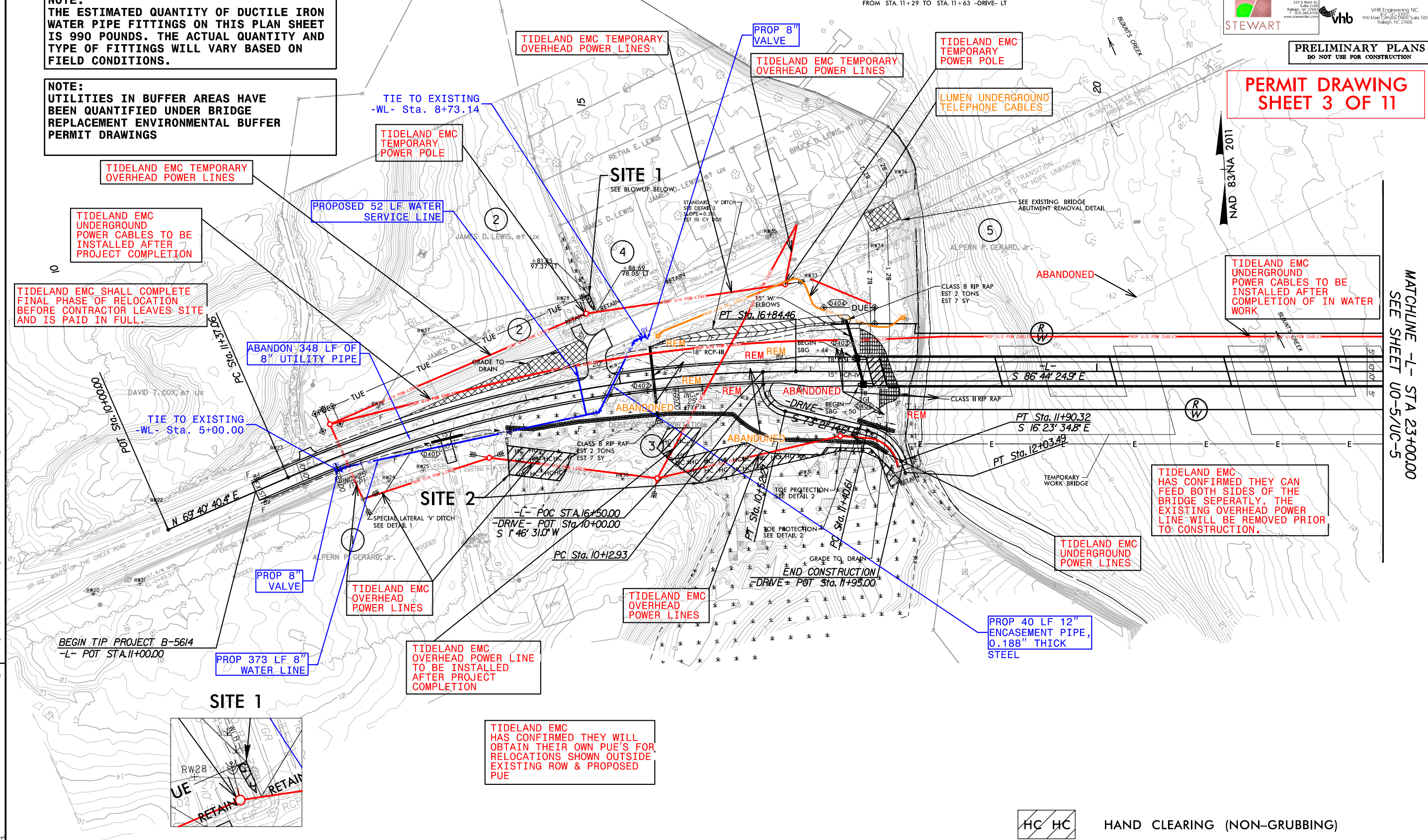
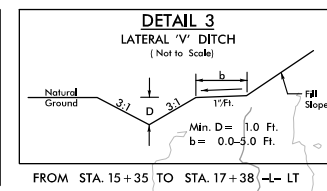
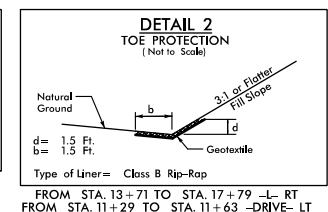
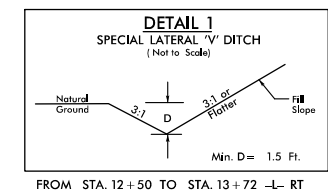
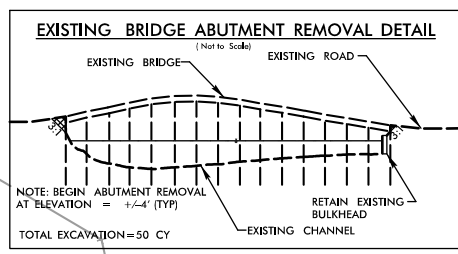
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 3 OF 11

NOTE:
CONTRACTOR IS REQUIRED TO ENSURE ALL
BENDS UTILIZE JOINT RESTRAINTS.

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 990 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

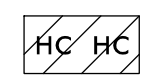
NOTE:
UTILITIES IN BUFFER AREAS HAVE
BEEN QUANTIFIED UNDER BRIDGE
REPLACEMENT ENVIRONMENTAL BUFFER
PERMIT DRAWINGS



MATCHLINE -L- STA 23+00.00
SEE SHEET UO-5/UC-5

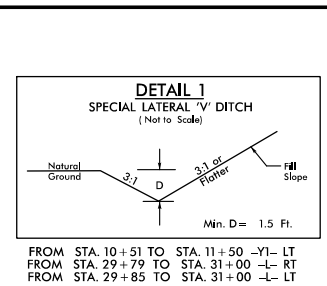
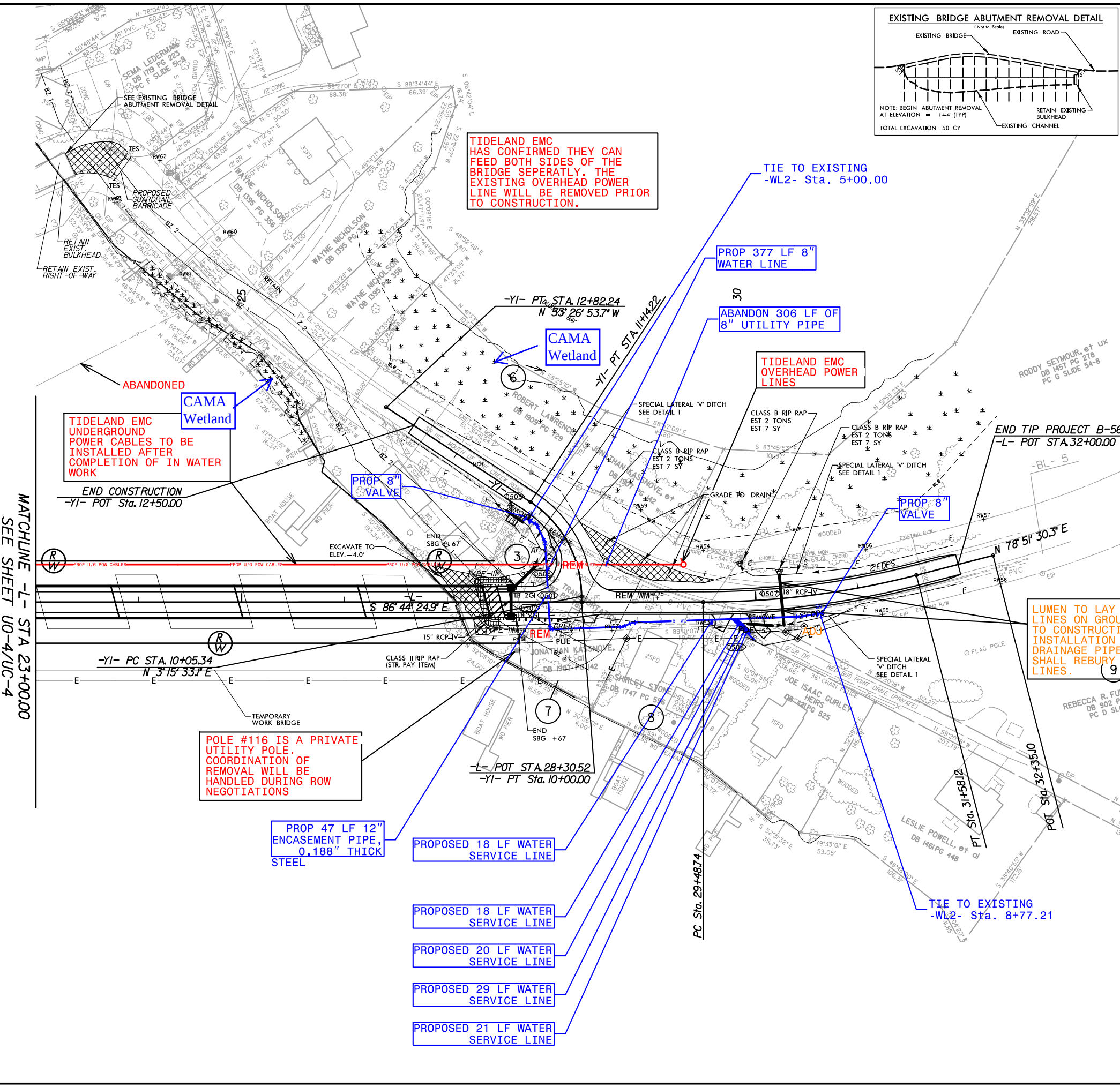
REVISIONS

5/14/99
B:\345614M\B-5614\PERMITS\Environmental\Drawings\Utility Impacts\B5614_Hyd.prm.power_PSH04_con.dgn



HAND CLEARING (NON-GRUBBING)

5/14/99
REVISED
MATCHLINE -L- STA 23+00.00
SEE SHEET UO-4/UC-4
B:\3545-AM\B3545-001\Drawings\Environmental\Drawings\Utility\impacts\B5614_Hyd.prm-power_PSH05.dgn



PROJECT REFERENCE NO. **B-5614** SHEET NO. **UE-4**
THIS SHEET CORRESPONDS TO RDY-5

UTILITIES BY OTHERS/UTILITY CONSTRUCTION

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

STEWART
VHB Engineering NC
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 4 OF 11

NOTE:
CONTRACTOR IS REQUIRED TO ENSURE ALL
BENDS UTILIZE JOINT RESTRAINTS.

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 1335 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

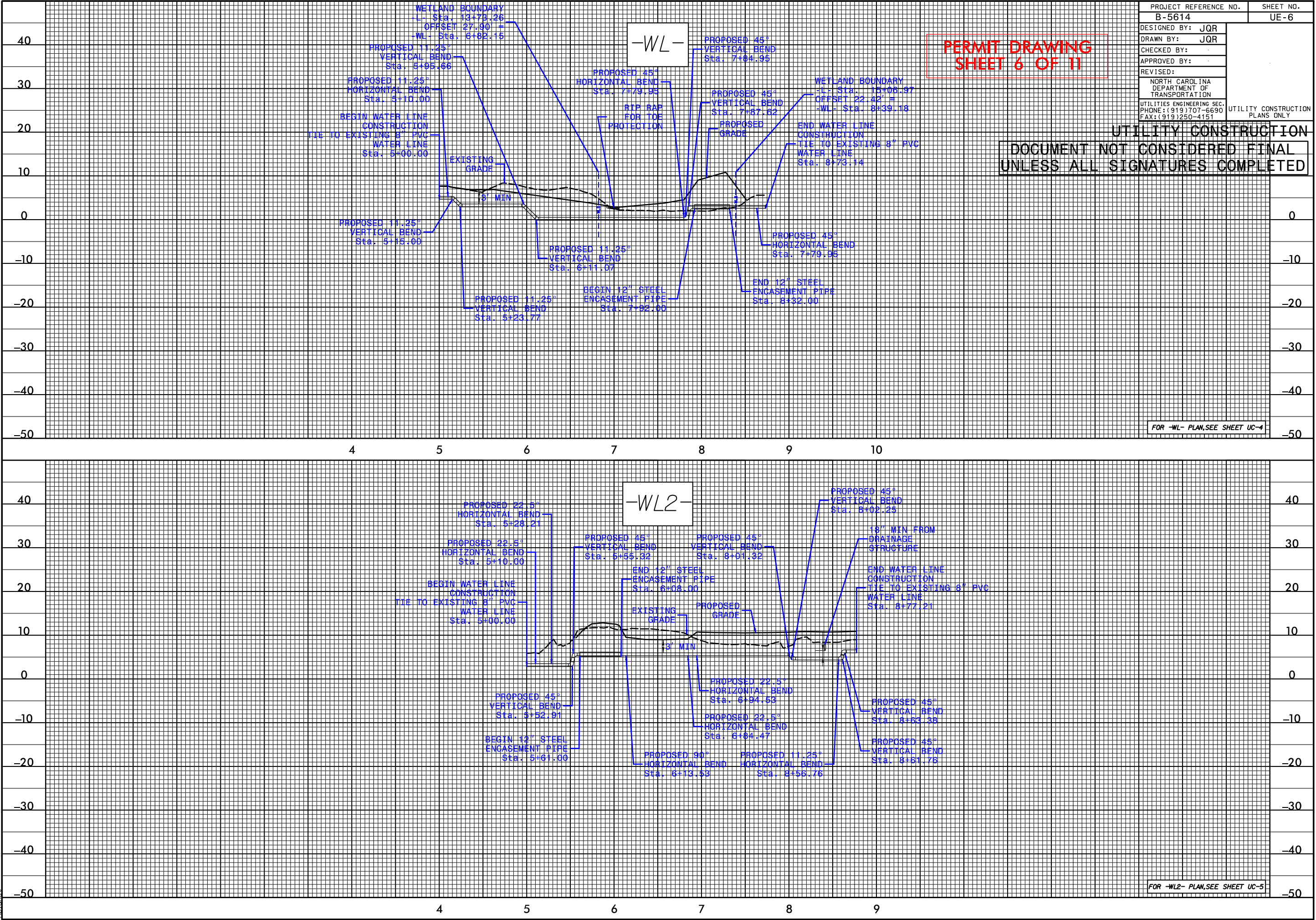
NOTE:
UTILITIES IN BUFFER AREAS HAVE
BEEN QUANTIFIED UNDER BRIDGE
REPLACEMENT ENVIRONMENTAL BUFFER
PERMIT DRAWINGS

LUMEN TO LAY EXISTING
LINES ON GROUND PRIOR
TO CONSTRUCTION. AFTER
INSTALLATION OF
DRAINAGE PIPE, LUMEN
SHALL REBURY EXISTING
LINES.

ALLOWABLE IMPACTS ZONE 2

5/28/99

12:35:45 AM
C:\Users\jqr\Documents\PERMITS\Environmental\Drawings\utility impacts\B5614_Hyd.prm.water_xsc.dgn



PERMIT DRAWING
SHEET 6 OF 11

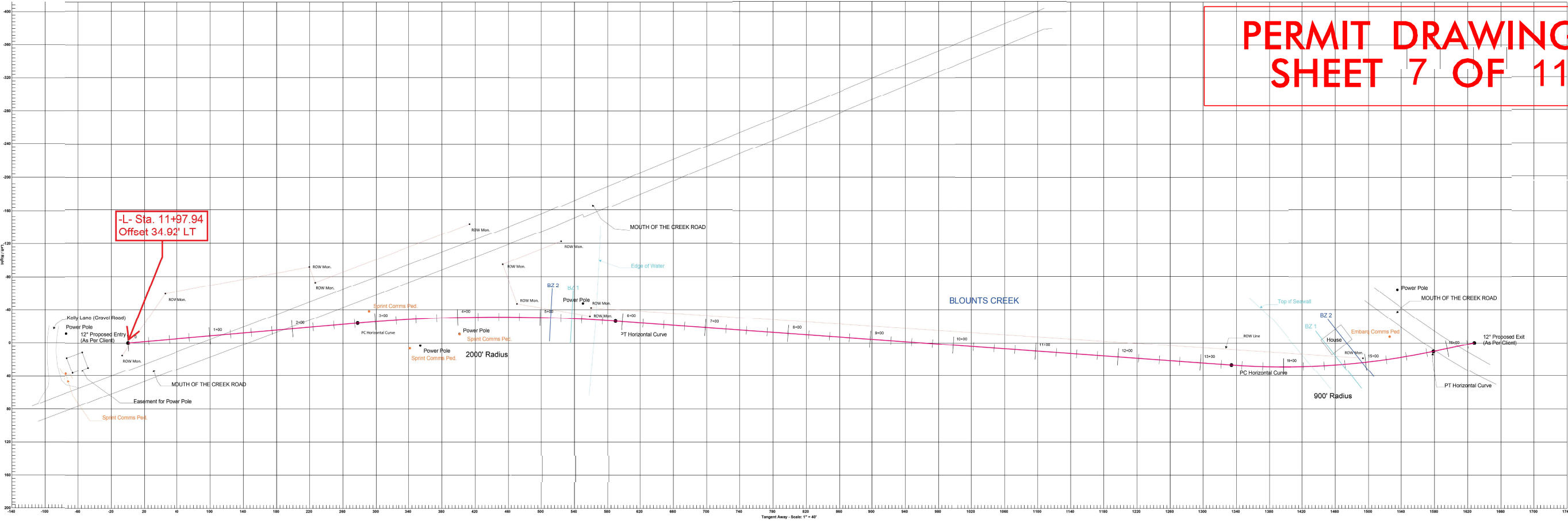
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

FOR -WL- PLAN, SEE SHEET UC-4

FOR -WL2- PLAN, SEE SHEET UC-5

PLAN VIEW

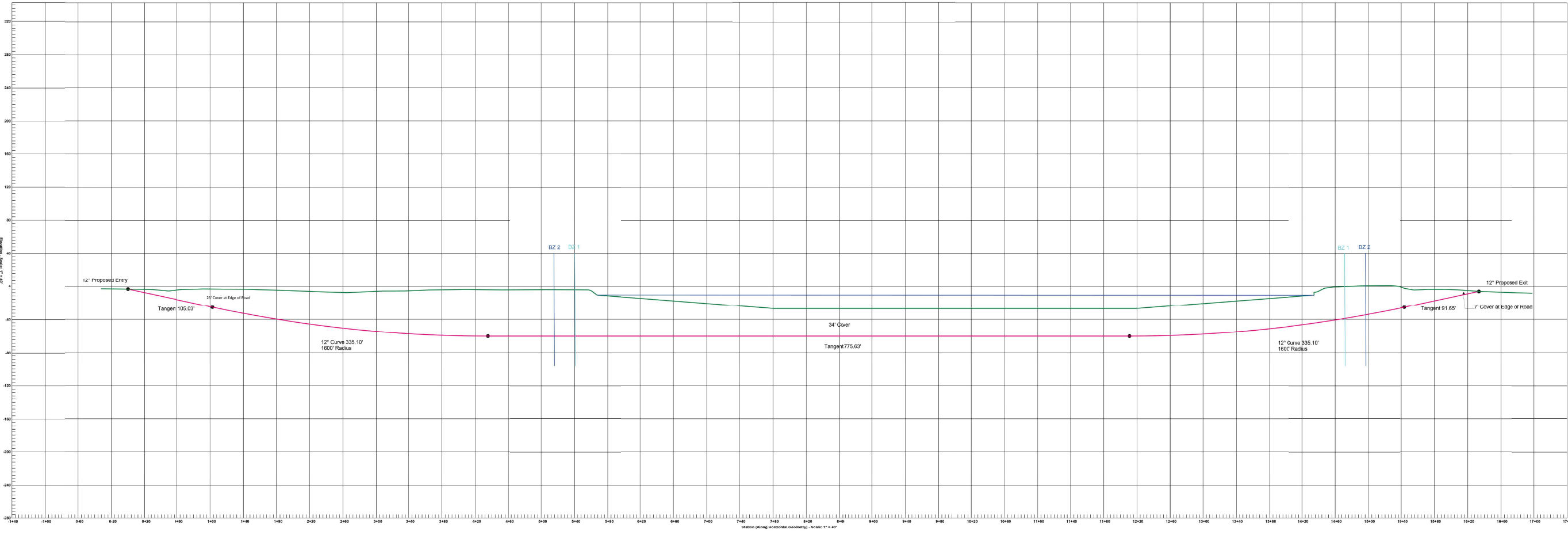


PERMIT DRAWING SHEET 7 OF 11

UE-7

File: Sane Specifications
1.1.1. Electrical LLC Blounts Creek HDD
1.1.1.2.022 7:47:39 AM
Des: Min: Max: Radius: 0.000 Feet
Min: Max: Minimum Radius: 0.000 Feet
Max: Min: Max: Minimum Cover: 0.000 Feet
Max: Min: Max: Minimum Cover: 0.000 Feet

PROFILE VIEW



Buffer Zone locations shown on the plans are approximate and for informational purposes only.

From	Station	Horizontal Curve	Vertical Curve	Radius	Length
1	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
2	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
3	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
4	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
5	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
6	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
7	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
8	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'

From	Station	Horizontal Curve	Vertical Curve	Radius	Length
1	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
2	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
3	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
4	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
5	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
6	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
7	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'
8	11+97.94	12" Curve 335.10'	12" Curve 1600'	335.10'	1600'

IMPORTANT:
Horizontal Technology, Inc. & Horizontal Technology of Canada, Inc. (HTI) the not engineering or design firm. HTI assumes, but has no responsibility to confirm, that all aspects in this project have been professionally planned, designed and engineered by licensed civil and/or structural engineering firms.
Any HTI professional drawing or plan sheet represents our understanding of the client's instructions and information provided. HTI makes no claims or warranty as to the accuracy of any drawings, plans or sections. It is the client's responsibility to verify, confirm, and approve all aspects of HTI's work.
Signatures or initials on a drawing, as well as the commencement of drilling operations signifies all aspects of the work have been reviewed and approved (for accuracy and omissions) by the appropriate authority and that all information is correct and complete. HTI does not warrant the accuracy of any information obtained from any HTI drawing, revision or document generated in relation to this project.



Horizontal Technology, Inc. & Horizontal Technology of Canada, Inc.
10300 Highway 10-301 South
Aberdeen, North Carolina, 28315 910-644-9723

Customer:
Tideland EMC

Project:
Blount Creek HDD

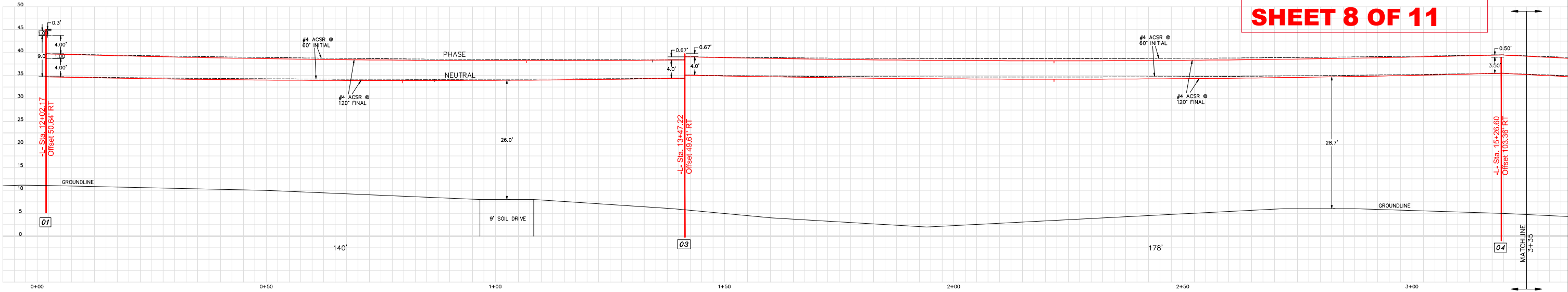
Location:
Chocomaury, NC

Job No.:
27165022

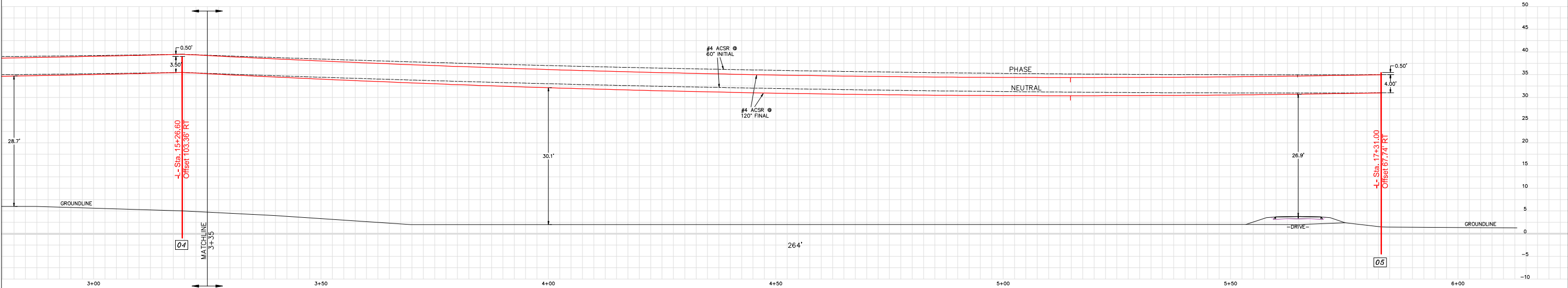
Scale:
1" = 20'

Drawn:
JTB

PERMIT DRAWING
SHEET 8 OF 11



PROFILE A-A



PROFILE A-A

NOTES:

1. ALL POLES UNLESS OTHERWISE NOTED ARE 40', CLASS 4, 6' EMBEDMENT.
2. SAG CURVES ARE FOR TYPICAL DESIGN TENSIONS FOR CONDUCTORS SHOWN. ACTUAL STRINGING TENSIONS MAY CAUSE MINOR DIFFERENCES.
3. GROUND CONTOURS ARE FROM NCDOT PROJECT B-5614 DRAWING SET AND BEAUFORT COUNTY GIS DATA.

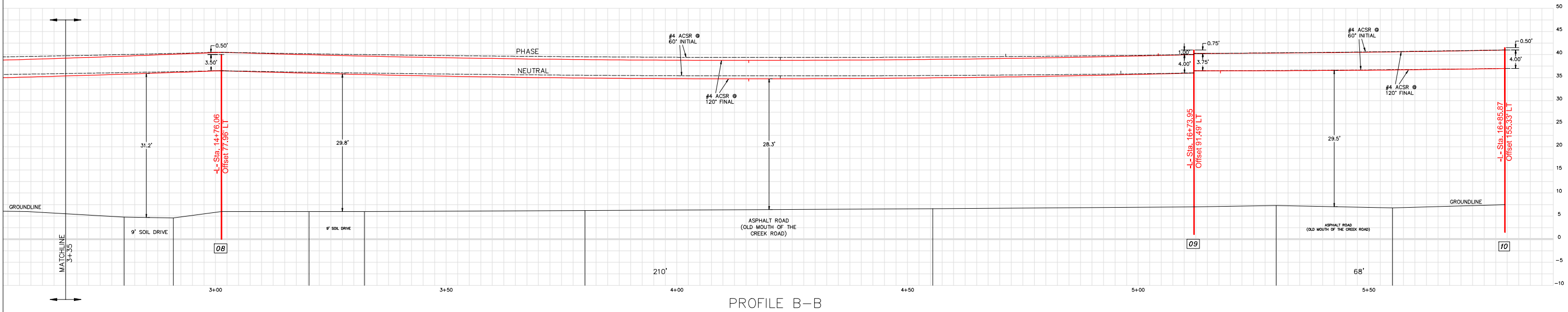
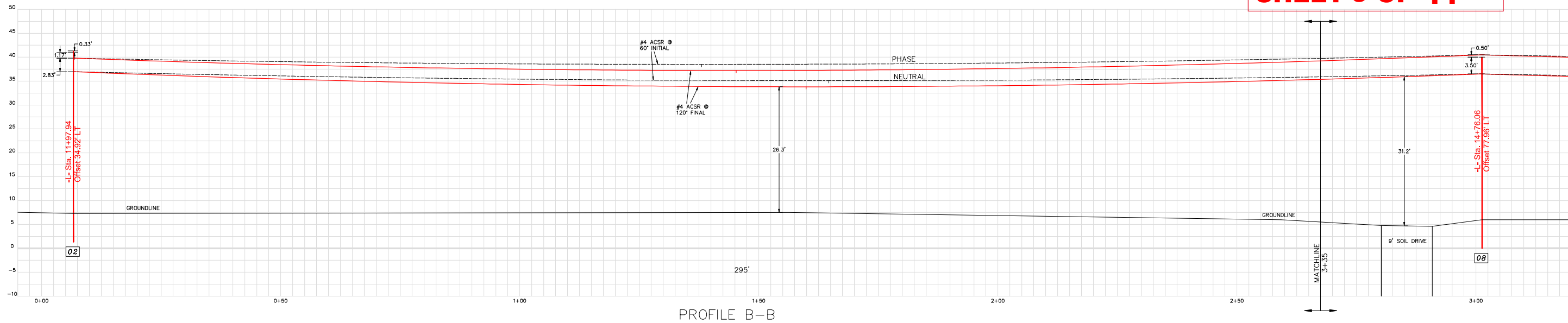
PRELIMINARY



155 U.S. HWY. 70 WEST
N.C. CORP. C-1063
Utility Electrical Consultants PC
CARNER, NORTH CAROLINA
PH (919) 821-1410

TIDELAND ELECTRIC MEMBERSHIP CORP. PANTEGO, NORTH CAROLINA			
MOUTH OF THE CREEK ROAD PLAN VIEW			
DRAWN BY: ABB	JOB NO.: 22-2162	SCALE: 1" = 10'	
CHECKED BY: TBP	CAD FILE: BLOUNTSCREEK.P	APPROVED BY: TBP	
DATE: 03/03/2022		SHEET NO. 2 OF 4	

PERMIT DRAWING
SHEET 9 OF 11



NOTES:

1. ALL POLES UNLESS OTHERWISE NOTED ARE 40', CLASS 4, 6' EMBEDMENT.
2. SAG CURVES ARE FOR TYPICAL DESIGN TENSIONS FOR CONDUCTORS SHOWN. ACTUAL STRINGING TENSIONS MAY CAUSE MINOR DIFFERENCES.
3. GROUND CONTOURS ARE FROM NCDOT PROJECT B-5614 DRAWING SET AND BEAUFORT COUNTY GIS DATA.

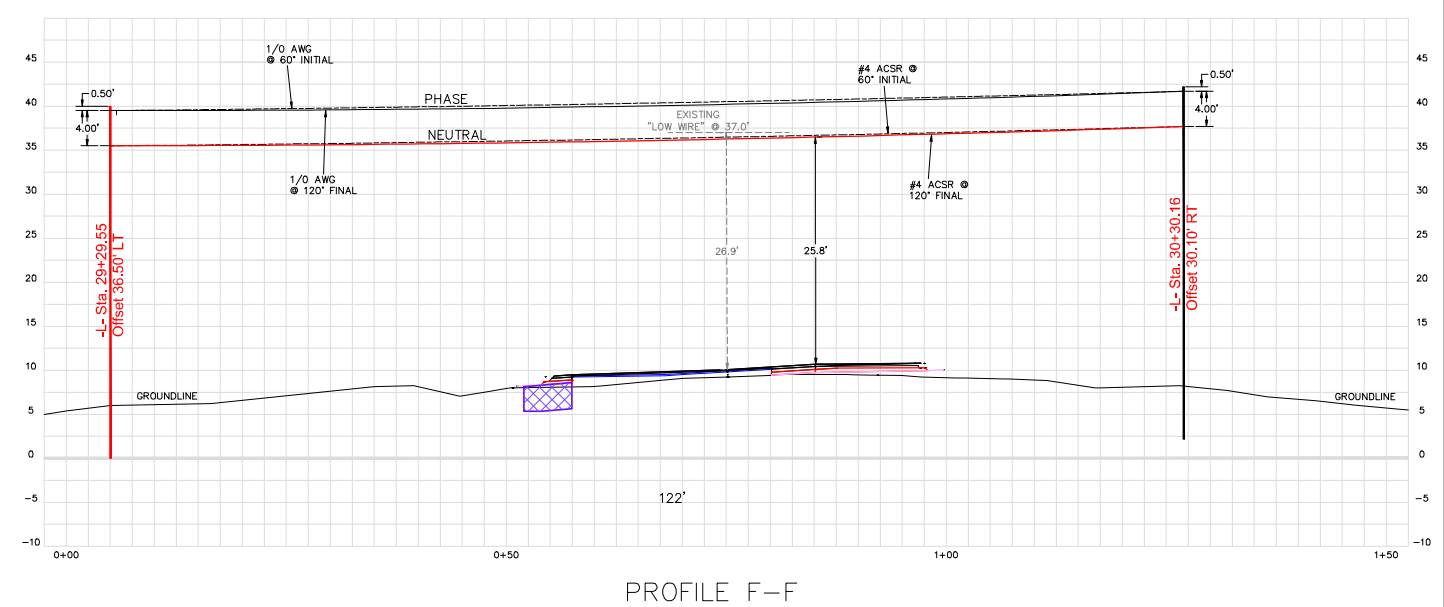
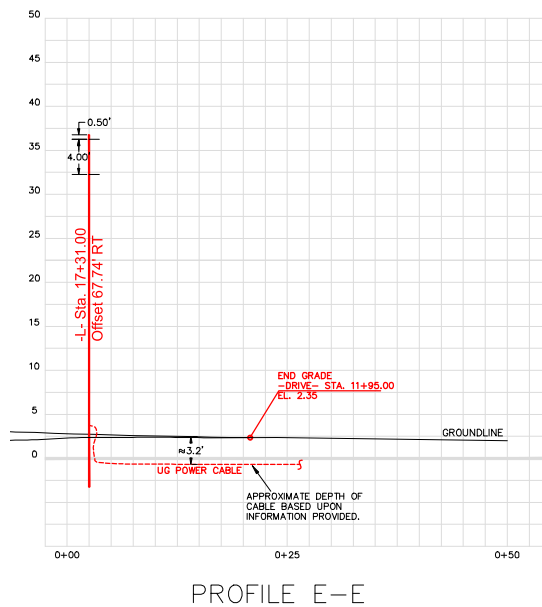
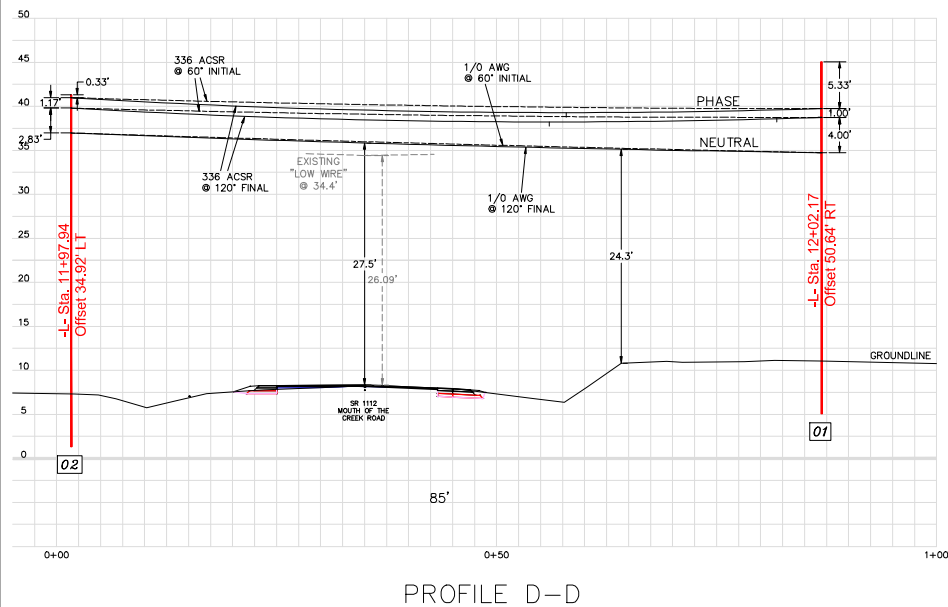
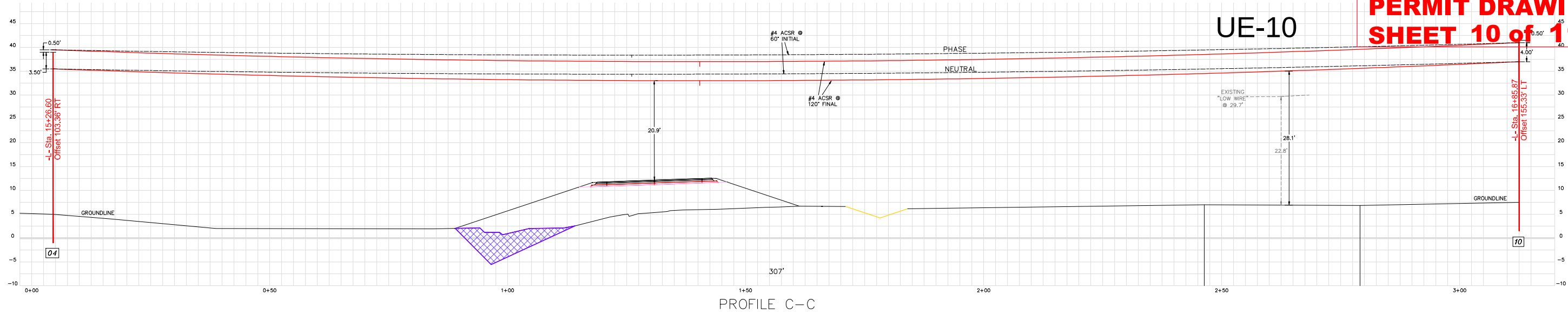
PRELIMINARY



155 U.S. HWY. 70 WEST
N.C. CORP. C-1063
Utility Electrical Consultants PC
CARNER, NORTH CAROLINA
PH (919) 821-1410

TIDELAND ELECTRIC MEMBERSHIP CORP.
PANTEGO, NORTH CAROLINA
MOUTH OF THE CREEK ROAD
PLAN VIEW

DRAWN BY:	ABB	JOB NO.:	22-2162	SCALE:	1" = 10'
CHECKED BY:	TBP	CAD FILE:	BLOUNTSCREEKPH		
APPROVED BY:	TBP	DATE:	03/03/2022	SHEET NO.	3 OF 4



NOTES:

- ALL POLES UNLESS OTHERWISE NOTED ARE 40', CLASS 4, 6' EMBEDMENT.
- SAG CURVES ARE FOR TYPICAL DESIGN TENSIONS FOR CONDUCTORS SHOWN. ACTUAL STRINGING TENSIONS MAY CAUSE MINOR DIFFERENCES.
- GROUND CONTOURS ARE FROM NCDOT PROJECT B-5614 DRAWING SET AND BEAUFORT COUNTY GIS DATA.

PRELIMINARY



155 U.S. HWY. 70 WEST
N.C. CORP. C-1063

Utility Electrical Consultants PC

CARNER, NORTH CAROLINA
PH (919) 821-1410

TIDELAND ELECTRIC MEMBERSHIP CORP. PANTEGO, NORTH CAROLINA			
MOUTH OF THE CREEK ROAD PLAN VIEW			
DRAWN BY: ABB	JOB NO.: 22-2162	SCALE: 1" = 10'	
CHECKED BY: TBP	CAD FILE: BLOUNTSCREEK	SHEET NO. 4 OF 4	
APPROVED BY: TBP	DATE: 03/03/2022		

WETLAND AND SURFACE WATER IMPACTS SUMMARY												
			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	-L- 14+80 to 14+90	TEMP. OVERHEAD POWER LINES					< 0.01					
2	-L- 13+63 to 14+44	OVERHEAD POWER LINES					0.04					
2	-L- 15+30 to 17+96	OVERHEAD POWER LINES					0.10					
TOTALS*:							0.15			0	0	0

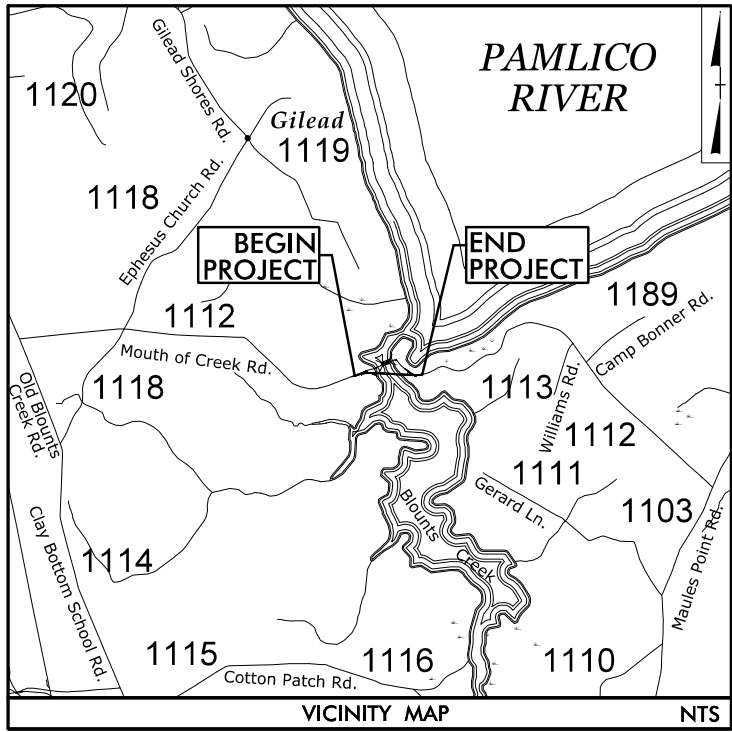
NOTES:

SHEET 11 OF 11

09/08/99
10:36:23 AM
R:\Hydro\audios\PERMITS\Environmental\Drawings\utility Impacts\B5614_Hyd_prm_UE_buffer_TSH.dgn
nblanuf

TIP PROJECT: B-5614

CONTRACT:



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY ENVIRONMENTAL PERMIT DRAWING

LOCATION: BRIDGE NO. 9 ON SR 1112
OVER BLOUNTS CREEK

TYPE OF WORK: TELECOMMUNICATIONS, POWER RELOCATION,
AND WATERLINE RELOCATION

BUFFER IMPACTS PERMIT

TIP NO.	SHEET NO.
B-5614	UE-1

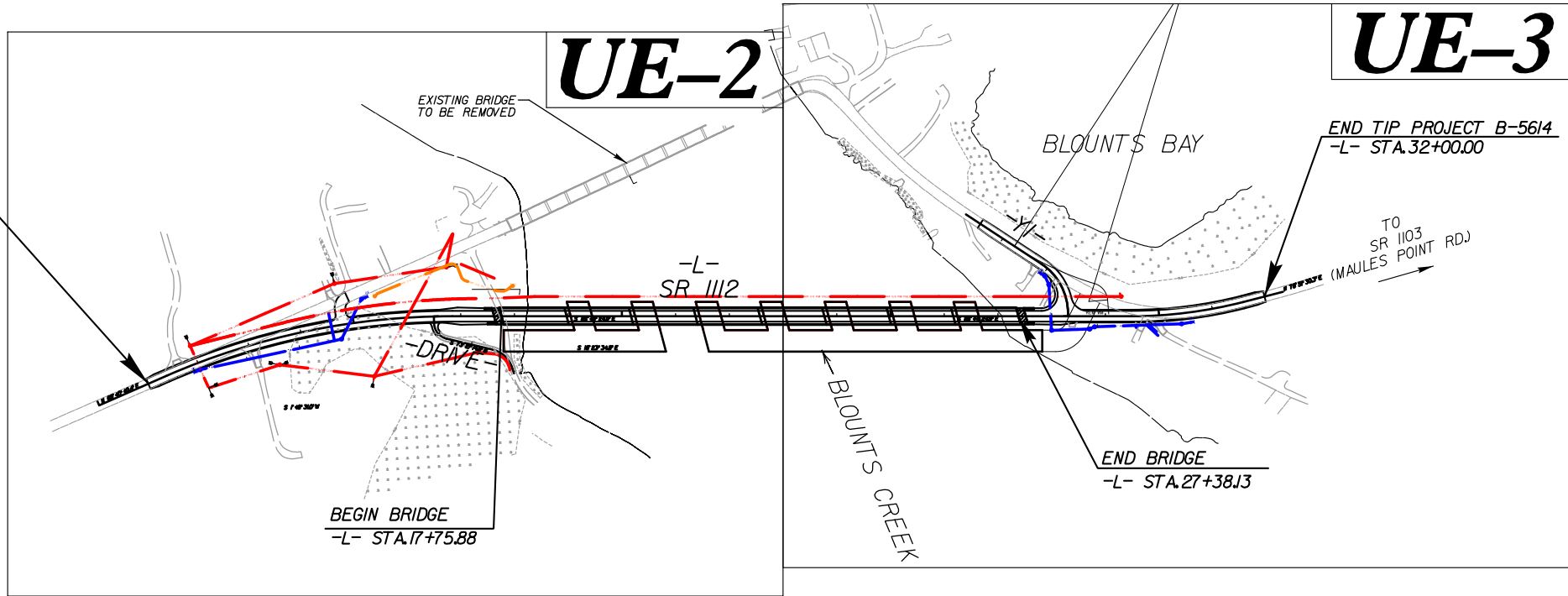
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

BUFFER DRAWING
SHEET 1 OF 5



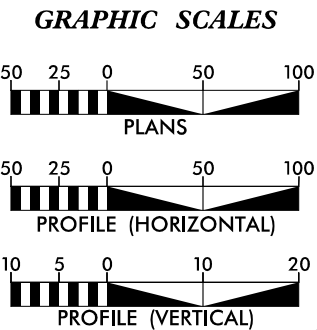
BEGIN TIP PROJECT B-5614
-L- STA.11+00.00

TO
SR 1114
(OLD BLOUNTS CREEK RD.)



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

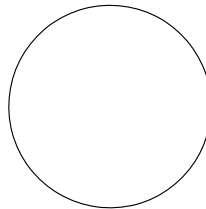


SHEET NO.	DESCRIPTION
UE-1	BUFFER IMPACT TITLE SHEET
UE-2	UTILITY BUFFER IMPACTS
UE-3	UTILITY BUFFER IMPACTS

UTILITY OWNERS ON PROJECT
(A) LUMEN (CENTURY LINK) - TELECOMMUNICATIONS
(B) TIDELAND EMC - POWER
WATER AND SEWER OWNERS ON PROJECT
(A) WATER - BEAUFORT COUNTY

Prepared in the Offices of:	
STEWART 223 S. WEST ST., STE. 1100 RALEIGH, NC 27603 T 919.380.8750	vhb VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606
MICHAEL BURNS, PE	PROJECT ENGINEER
JOSHUA ROEMER	PROJECT DESIGN ENGINEER

SEAL



DIVISION OF HIGHWAYS UTILITIES UNIT 155 MAIL SERVICES CENTER RALEIGH, NC 27699-1555 PHONE (919) 707-6690 FAX (919) 250-4151	
NABIL HAMDAN	UTILITIES REGIONAL ENGINEER
TYRON W. STALLINGS	UTILITIES ENGINEER
TANGA SAMPSON	UTILITIES AREA COORDINATOR
TYRON W. STALLINGS	UTILITIES COORDINATOR

UTILITIES BY OTHERS/UTILITY CONSTRUCTION

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



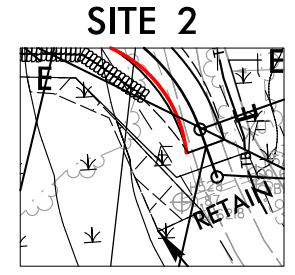
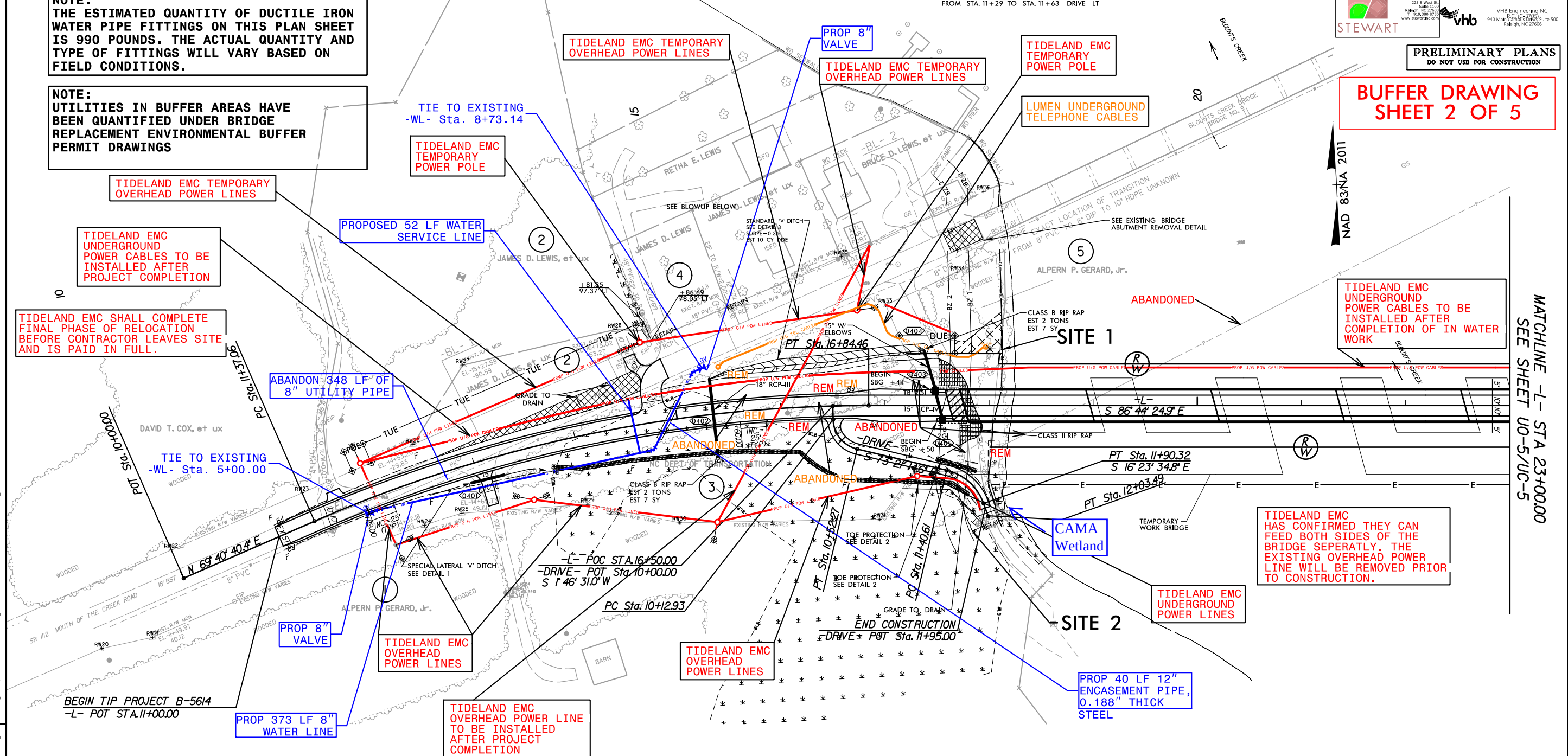
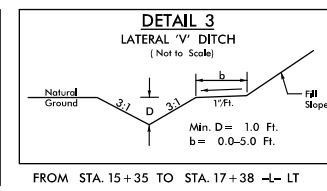
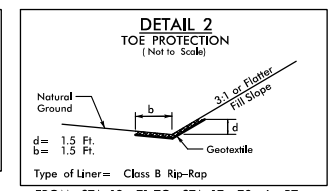
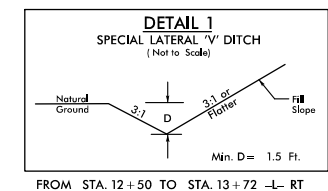
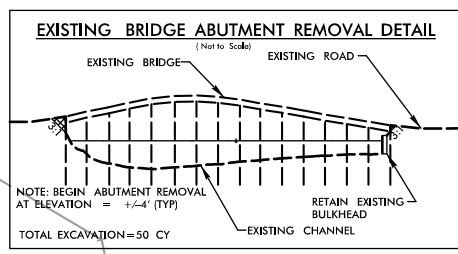
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

**BUFFER DRAWING
SHEET 2 OF 5**

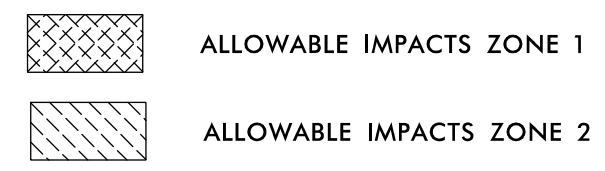
NOTE:
CONTRACTOR IS REQUIRED TO ENSURE ALL
BENDS UTILIZE JOINT RESTRAINTS.

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 990 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

NOTE:
UTILITIES IN BUFFER AREAS HAVE
BEEN QUANTIFIED UNDER BRIDGE
REPLACEMENT ENVIRONMENTAL BUFFER
PERMIT DRAWINGS



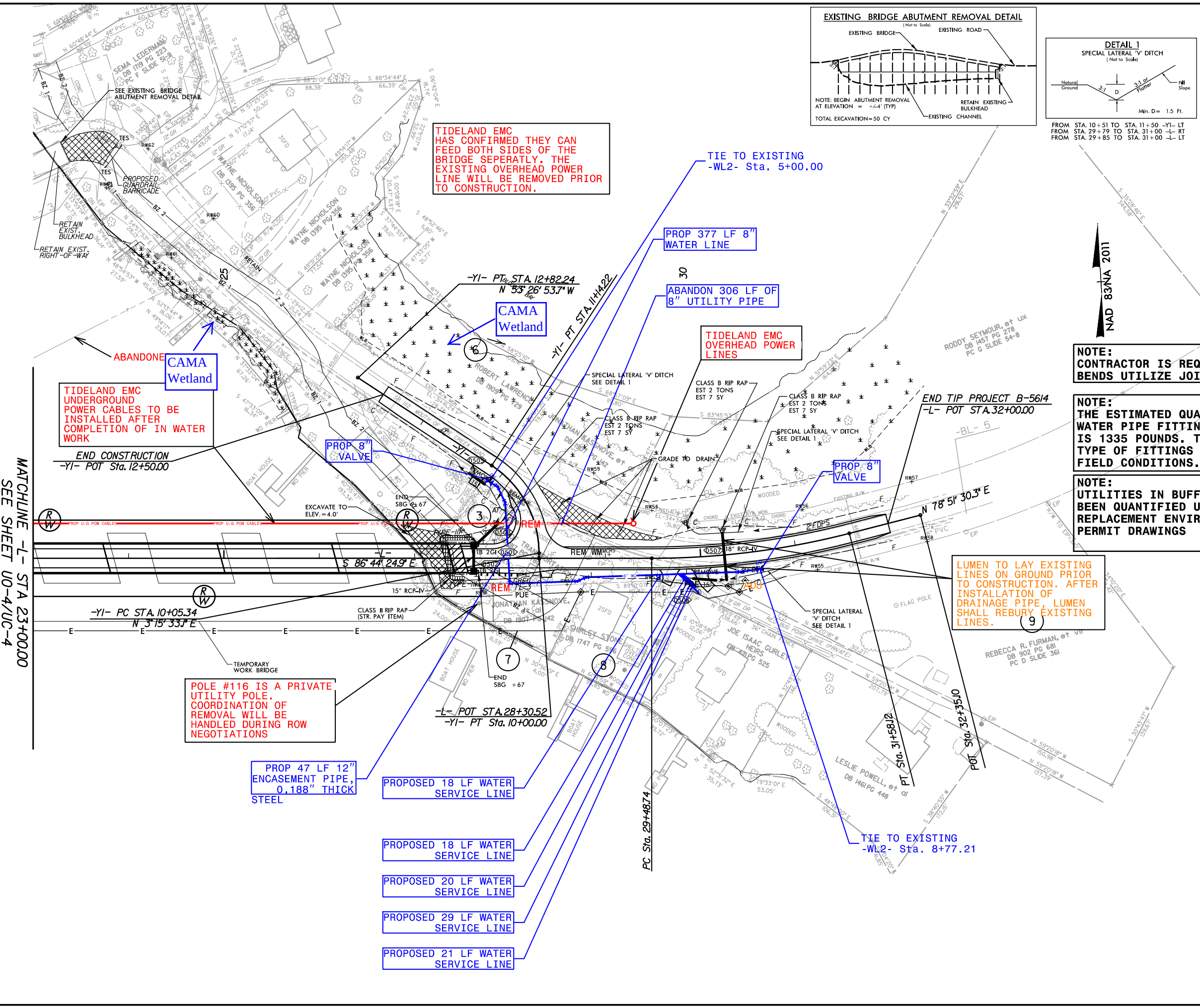
TIDELAND EMC
HAS CONFIRMED THEY WILL
OBTAIN THEIR OWN PUE'S FOR
RELOCATIONS SHOWN OUTSIDE
EXISTING ROW & PROPOSED
PUE



REVISIONS

5/14/99
3/4/01 PM
B:\Hydro\ulics\PERMITS\Environmental\Drawings\Utility Impacts\B5614_Hyd.prm_UE_buffer_PSH04.dgn

5/14/99
REVISED
10:37:08 AM
D:\Projects\Environmental\Drawings\Utility\impacts\B5614_Hyd.prm_UE_buffer_PSH05.dgn



PROJECT REFERENCE NO.	SHEET NO.
B-5614	UE-3
THIS SHEET CORRESPONDS TO RDY-5	

UTILITIES BY OTHERS/UTILITY CONSTRUCTION

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

BUFFER DRAWING
SHEET 3 OF 5

NOTE:
CONTRACTOR IS REQUIRED TO ENSURE ALL
BENDS UTILIZE JOINT RESTRAINTS.

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 1335 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

NOTE:
UTILITIES IN BUFFER AREAS HAVE
BEEN QUANTIFIED UNDER BRIDGE
REPLACEMENT ENVIRONMENTAL BUFFER
PERMIT DRAWINGS

LUMEN TO LAY EXISTING
LINES ON GROUND PRIOR
TO CONSTRUCTION. AFTER
INSTALLATION OF
DRAINAGE PIPE, LUMEN
SHALL REBURY EXISTING
LINES.

MATCHLINE -L- STA 23+00.00
SEE SHEET UO-4/UC-4

RIPARIAN BUFFER IMPACTS SUMMARY													
Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE				
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)
1	-L- 17+62/18+12	PROP U/G POW & TEL CABLE			X	834	197	1031					
2	-DRIVE- 11+36/12+04	PROP O/H POW & TEL CABLE			X	203	105	308					
TOTALS*:						1037	302	1339	0	0	0	0	0

SHEET 4 OF 5

WETLANDS IN BUFFER IMPACTS SUMMARY	
------------------------------------	--

			WETLANDS IN BUFFERS	
SITE NO.	STATION (FROM/TO)	Structure	ZONE 1 (ft²)	ZONE 2 (ft²)
2	-DRIVE- 11+36/12+04	PROP O/H POW & TEL CABLE	203	105
TOTAL:			203	105

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08/24/22
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 5 OF 5

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08/24/22
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 5 OF 5

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08/24/22
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 5 OF 5