



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

January 29, 2026

MEMORANDUM TO: Division Environmental and Construction Units

FROM: *mat* Michael A. Turchy, ECAP Group Leader
Environmental Analysis Unit

SUBJECT: Environmental Permits for the Replacement of Bridge 9 on SR 1112 over
Blounts Creek in Beaufort County, Division 2, **TIP: B-5614**

Please find enclosed the following permits for this project:

| Agency | Permit Type | Permit Expiration |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------|
| US Army Corps of Engineers Section 404 Clean Water Act Permit | Regional General Permit 50 (renewed 10/20/2025) <i>Replaces previous 11/28/22 issuance</i> | May 25, 2030 |
| NC Division of Water Resources Section 401 Water Quality Certification | General Cert. No. 8634 [RGP50] (renewed 11/21/2025) <i>Replaces previous 11/13/22 issuance</i> | May 25, 2030 |
| NC Division of Water Resources Buffer Certification | Tar-Pamlico Riparian Buffer Certification (issued 10/13/2022) | October 13, 2027 |
| NC Division of Coastal Management Coastal Area Management Act | CAMA Major Development Permit (modified 7/1/2024) <i>appends 1/6/2023 issuance</i> | No Expiration |
| US Coast Guard | US Coast Guard Bridge Permit (issued 5/13/2025) | No Expiration |

Work is authorized by the above referenced permit provided it is accomplished in strict accordance with the permitted plans.

The Environmental Coordination and Permitting Group or the Division Environmental Office must be consulted if any deviation from the permit(s) is required.

The General Conditions and Certifications for Nationwide and Regional Permits can be referenced at:
https://xfer.services.ncdot.gov/pdea/PermIssued/_General_Conditions_and_Certifications/

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

Action Id. **SAW-2022-01869** County: **Beaufort County** U.S.G.S. Quad: **Blounts Bay**

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Permittee: **Deanna Riffey**
North Carolina Department of Transportation
Address: **ECAP, Environmental Coordination and Permitting**
Raleigh NC, 27699-1598
Telephone Number: *********

Size (acres) **20 acres** Nearest Town **Blounts Creek**
Nearest Waterway **Blounts Creek** River Basin **Pamlico**
USGS HUC **03010201** Coordinates Latitude: **35.433287** Longitude: **-76.970789**
Location description: **REISSUE: Bridge 9 on SR 1112 over Blounts Creek near the Town of**
Blount, Beaufort County, NC

Description of projects area and activity: **Replace structurally deficient and functionally obsolete bridge**

Applicable Law: ☒ Section 404 (Clean Water Act, 33 USC 1344);
☒ Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Regional General Permit Number and/or Nationwide Permit Number: **GP 50 - NCDOT**
- Bridge, Road Widening and Interchanges
SEE ATTACHED RGP or NWP GENERAL, REGIONAL AND/OR SPECIAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted application and attached information dated October 9, 2025. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management in Morehead City, NC, at (252) 808-2808.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Thomas Steffens at (910) 251-4615 or Thomas.A.Steffens@usace.army.mil.**

Corps Regulatory Official: M. Scott Jones Date: **October 20, 2025**
Expiration Date of Verification: **May 25, 2030**

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at <https://regulatory.ops.usace.army.mil/customer-service-survey/>

Copy furnished:

SPECIAL CONDITIONS

1. Work Limits: All work authorized by this permit shall be performed in strict compliance with the attached permit plans dated **October 9, 2025**, which are a part of this permit. The Permittee shall ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Any modification to the attached permit plans must be approved by the U.S. Army Corps of Engineers (Corps) prior to any active construction in waters or wetlands.

2. Permit Distribution: The Permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit. A copy of this permit, including all conditions and drawings shall be available at the project site during construction and maintenance of this project.

3. Preconstruction Meeting: The Permittee shall conduct an onsite preconstruction meeting between its representatives, the contractor's representatives, and the appropriate U.S. Army Corps of Engineers Project Manager prior to undertaking any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all terms and conditions contained within the Department of the Army permit. The Permittee shall schedule the preconstruction meeting for a time frame when the Corps, NCDWM, and NCDWR Project Managers can attend. The Permittee shall invite the Corps, NCDWM, and NCDWR Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to schedule and participate in the required meeting. The thirty (30) day requirement can be waived with the concurrence of the Corps.

4. Notification of Construction Commencement and Completion: The Permittee shall notify the U.S. Army Corps of Engineers in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.

5. Reporting Address: All reports, documentation, and correspondence required by the conditions of this permit shall be submitted to the following: U.S. Army Corps of Engineers, Wilmington District, Washington Regulatory Field Office, Attn: Thomas Steffens, 2405 West 5th St. Washington, NC 27889 or Thomas.a.steffens@usace.army.mil. The Permittee shall reference the following permit number, **SAW-2022-01869**, on all submittals.

6. Permit Revocation: The Permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the water or wetland to its pre-project condition.

7. Reporting Violations: Violation of these permit conditions or violation of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act shall be reported to the Corps in writing and by telephone at: 910-251-4615 within 24 hours of the Permittee's discovery of the violation.

8. Endangered Species Act: The Permittee shall implement all necessary measures to ensure the authorized activity does not kill, injure, capture, harass, or otherwise harm any federally listed threatened or endangered species. While accomplishing the authorized work, if the Permittee

discovers or observes an injured or dead threatened or endangered species, the U.S. Army Corps of Engineers, Wilmington District, Washington Field Office, Attn: Thomas Steffens at 910-251-4615 will be immediately notified to initiate the required Federal coordination.

9. Sediment and Erosion Control:

1) During the clearing phase of the project, heavy equipment shall not be operated in surface waters or stream channels. Temporary stream crossings will be used to access the opposite sides of stream channels. All temporary diversion channels and stream crossings will be constructed of non-erodible materials. Grubbing of riparian vegetation will not occur until immediately before construction begins on a given segment of stream channel.

2) No fill or excavation impacts for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless the impacts are included on the plan drawings and specifically authorized by this permit. This includes, but is not limited to, sediment control fences and other barriers intended to catch sediment losses.

3) The Permittee shall remove all sediment and erosion control measures placed in waters and/or wetlands, and shall restore natural grades on those areas, prior to project completion.

4) The Permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to ensure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices shall be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to ensure compliance with the appropriate turbidity water quality standards. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project shall remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4). Adequate sedimentation and erosion control measures shall be implemented prior to any ground disturbing activities to minimize impacts to downstream aquatic resources. These measures shall be inspected and maintained regularly, especially following rainfall events. All fill material shall be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

10. Clean Fill: The Permittee shall use only clean fill material for this project. The fill material shall be free of items such as trash, construction debris, metal and plastic products, and concrete block with exposed metal reinforcement bars. Soils used for fill shall not be contaminated with any toxic substance in concentrations governed by Section 307 of the Clean Water Act. Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source.

11. Water Contamination: All mechanized equipment shall be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. In the event of a spill of petroleum products or any other hazardous waste, the Permittee shall immediately report it to the N.C. Division of Water Resources at (919) 733-3300 or (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act shall be followed.

12. In-water Work Moratorium: To avoid adverse impacts to spawning populations of fish species at this project site, no in-water work shall be conducted between February 15 – June 30 at Blounts Creek, and its associated perennial tributaries. For the purpose of this moratorium, “in water” is defined as those waters within Blounts Creek, and its associated perennial tributaries, and its adjacent wetlands that have an active connection to these tributaries during periods of inundation.

Navigation

13. The authorized structure and associated activity must not interfere with the public’s right to free navigation on all navigable waters of the United States. No attempt will be made by the Permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work for reasons other than safety.

14. The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the U.S. Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal, relocation, or alteration.

15. The Permittee shall install and maintain, at his expense, any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, on authorized facilities.

16. The National Ocean Service (NOS) has been notified of this authorization. The Permittee shall notify NOS and the Corps, in writing, at least two (2) weeks before beginning work and upon completion of the authorized work. The notification of completion shall include a drawing which certifies the location and configuration of the completed activity (a certified permit drawing may be used). This information must be provided within 30 days of completion of the authorized work. Notifications to NOS shall be sent to the following address: 1315 East West Highway, Silver Spring, Maryland 20910.

Utilities

17. Temporary Impacts Restoration Measures: Within thirty (30) days of the date of completing the authorized work, the Permittee shall remove all temporary fills in waters of the United States and restore the affected areas to pre-construction contours and elevations. The affected areas shall be re-vegetated with native, non-invasive vegetation as necessary to minimize erosion and ensure site stability. In wetland areas where pipeline installation via trenching is authorized, wetland topsoil shall be segregated from the underlying subsoil, and the top 6 to 12 inches of the trench shall be backfilled with topsoil from the trench.

18. Prior to construction within any jurisdictional areas, the Permittee shall correctly install silt fencing (with or without safety fencing) parallel with the utility line corridor, on both sides of the jurisdictional crossing. This barrier is to serve both as an erosion control measure and a visual identifier of the limits of construction within any jurisdictional area. The Permittee shall maintain the fencing, at minimum, until the wetlands have re-vegetated and stabilized.

19. Navigable Waters Crossing Notification: The National Ocean Service (NOS) has been notified of this authorization. The Permittee shall notify NOS and the Corps, in writing, at least two (2) weeks

before beginning work and upon completion of the authorized work. The notification of completion shall include accurate and certified as-built location drawings which certifies the location and configuration of the completed activity. **The data collected should include the centerline data for the utility line location in waters of the United States crossings, as well as the toe data showing where utility lines enter the water at the banks.** This information must be provided within 30 days of completion of each utility line crossing. Notifications to NOS shall be sent to the following address: 1315 East West Highway, Silver Spring, Maryland 20910.

Endangered Species

20. The U.S. Fish and Wildlife Service's (USFWS's) Programmatic Biological Opinion (PBO) titled, "NCDOT Program Effects on the Northern Long-eared Bat in Divisions 1-8", dated November 6, 2020, contains agreed upon conservation measures for the NLEB. As noted in the PBO, applicability of these conservation measures varies depending on the location of the project. Your authorization under this Department of the Army permit is conditional upon your compliance with all applicable conservation measures in the PBO, which are incorporated by reference in this permit. Failure to comply with the applicable conservation measures would constitute non-compliance with your Department of the Army permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its PBO, and with the ESA.

The U.S. Fish and Wildlife Service's (USFWS's) Programmatic Conference Opinion (PCO) titled "NCDOT Program Effects on the Tricolored Bat in Divisions 1-8", dated November 20, 2023, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that are specified in the PCO. Your authorization under this Corps permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take of the PCO, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the PCO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its PCO, and with the ESA.

21. Borrow and Waste: To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent waters and wetlands, except as authorized by this permit, the Permittee shall require its contractors and/or agents to identify all areas to be used as borrow and/or waste sites associated with this project. The Permittee shall provide the U.S. Army Corps of Engineers with appropriate maps indicating the locations of proposed borrow and/or waste sites as soon as such information is available. The Permittee shall submit to the Corps site-specific information needed to ensure that borrow and/or waste sites comply with all applicable Federal requirements, to include compliance with the Endangered Species Act and the National Historic Preservation Act, such as surveys or correspondence with agencies (e.g., the USFWS, the NC-HPO, etc.). The required information shall also include the location of all aquatic features, if any, out to 400 feet beyond the nearest boundary of the site. The Permittee shall not approve any borrow and/or waste sites before receiving written confirmation from the Corps that the proposed site meets all Federal requirements, whether or not waters of the U.S., including wetlands, are located in the proposed borrow and/or waste site. All delineations of aquatic sites on borrow and/or waste sites shall be verified by the U.S. Army Corps of Engineers and shown on the approved reclamation plans. The Permittee shall ensure that all borrow and/or waste sites comply with **Special Condition 22** of this permit. Additionally, the Permittee shall produce and maintain documentation of all borrow and waste sites associated with this project. This documentation will include data regarding soils, vegetation, hydrology, any delineation(s) of aquatic sites, and any jurisdictional determinations made

by the Corps to clearly demonstrate compliance with **Special Condition 22**. All information will be available to the U.S. Army Corps of Engineers upon request. The Permittee shall require its contractors to complete and execute reclamation plans for each borrow and/or waste site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the U.S. Army Corps of Engineers within 30 days of the completion of the reclamation work.

22. Except as authorized by this permit or any U.S. Army Corps of Engineers approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, or shall any activities take place that cause the degradation of waters or wetlands. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and waste activities connected with this project. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.

23. To compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit.

Action ID Number: SAW-2022-01869

County: Beaufort County

Permittee: Deanna Riffey
North Carolina Department of Transportation

Project Name: NCDOT / B-5614 / Bridge 9 on SR1112 / Mouth of The Creek Rd over
Blounts Creek / Beaufort County / Div 2

Date Verification Issued: November 19, 2025

Project Manager: Thomas Steffens

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
Attn: Thomas Steffens

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

JOSH STEIN
Governor

D. REID WILSON
Secretary

RICHARD E. ROGERS, JR.
Director



November 21, 2025

DWR#20201520v3
Beaufort County

Jason Dilday, ECAP Eastern Team Lead
NC Department of Transportation
Environmental Analysis Unit
1598 Mail Service Center
Raleigh, NC 27699-1598

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with
ADDITIONAL CONDITIONS for Proposed improvements to Bridge 9 on SR 1112 over Blounts
Creek in Beaufort County, TIP B-5614
USACE Action ID# SAW-2022-01869
NCDWR Project No. 20201520v3

Dear Mr. Dilday.:

Attached hereto is a copy of Certification No. 8634 issued to The North Carolina Department of
Transportation (NCDOT) dated November 21, 2025.

This approval is for the purpose and design described in your application. The plans and specifications
for this project are incorporated by reference as part of this Water Quality Certification. If you change
your project, you must notify the Division and you may be required to submit a new application package
with the appropriate fee. If the property is sold, the new owner must be given a copy of this
Certification and is responsible for complying with all conditions. [15A NCAC 02H .0507(d)(2)]. This
Certification does not relieve the permittee of the responsibility to obtain all other required Federal,
State, or Local approvals before proceeding with the project, including those required by, but not limited
to, Sediment and Erosion Control, Non-Discharge, Water Supply Watershed, and Trout Buffer
regulations.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Signed by:

A handwritten signature in black ink that reads 'Faith Hardin'.

3185423002EA45E...

Faith Hardin, Supervisor
Transportation Permitting Branch
Division of Water Resources



Attachments

cc: Chris Rivenbark, RK&K (via email)
Tom Steffens, USACE Washington Regulatory Field Office (via email)
Jay Johnson, Division 2 Environmental Officer (via email)
Gary Jordan, US Fish and Wildlife Service (via email)
Travis Wilson, NC Wildlife Resources Commission (via email)
Stephen Lane, NC Division of Coastal Management (via email)
File Copy

401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact 0.60 acres of jurisdictional wetlands and 98 linear feet of jurisdictional streams in Beaufort County. The project shall be constructed pursuant to the reverification request dated received October 9, 2025. The authorized impacts are as described below:

Stream Impacts in the Tar-Pamlico River Basin

| Site | Permanent Fill in Intermittent Stream (linear ft) | Temporary Fill in Intermittent Stream (linear ft) | Permanent Fill in Perennial Stream (linear ft) | Temporary Fill in Perennial Stream (linear ft) | Total Stream Impact (linear ft) |
|--------------|---------------------------------------------------|---------------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------|
| Bridge 9 | | | 33 | 65 | 98 |
| Total | | | 33 | 65 | 98 |

Total Stream Impact for Project: 98 linear feet

Wetland Impacts in the Tar-Pamlico River Basin (riverine)

| Site | Fill (ac) | Fill (temporary) (ac) | Excavation (ac) | Mechanized Clearing (ac) | Hand Clearing (ac) | Total Wetland Impact (ac) |
|--------------|-----------|-----------------------|-----------------|--------------------------|--------------------|---------------------------|
| Bridge 9 | 0.37 | >0.01 | | | 0.08 | 0.37 |
| Utilities | | | | | 0.16 | 0.16 |
| Total | 0.37 | >0.01 | | | 0.23 | 0.60 |

Total Wetland Impact for Project: 0.60 acres.

Open Water Impacts in the Tar-Pamlico River Basin

| Site | Permanent Fill in Open Waters (ac) | Temporary Fill in Open Waters (ac) | Total Fill in Open Waters (ac) |
|----------|------------------------------------|------------------------------------|--------------------------------|
| Bridge 9 | 0.02 | 1.19* | 1.21 |

| | | | |
|--------------|------|-------|------|
| Total | 0.02 | 1.19* | 1.21 |
|--------------|------|-------|------|

Total Open Water Impact for Project: 1.21 acres.

(* = impacts associated with temporary work bridge)

The application provides adequate assurance that the discharge of fill material into the waters of the **Tar-Pamlico River Basin** in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application dated received October 9, 2025. Should your project change, you are required to notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed 0.1 acre or 300 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7).

For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

This Water Quality Certification neither grants nor affirms any property right, license, or privilege in any lands or waters, or any right of use in any waters. This Water Quality Certification does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person and does not create any prescriptive right or any right of priority regarding any usage of water. This Water Quality Certification shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water use. No consumptive user is deemed by virtue of this Water Quality Certification to possess any prescriptive or other right of priority with respect to any other consumptive user regardless of the quantity of the withdrawal or the date on which the withdrawal was initiated or expanded. Upon the presentation of proper credentials, the Division may inspect the property.

Condition(s) of Certification:

1. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
2. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]

3. The permittee will need to adhere to all appropriate in-water work moratoria (including the use of pile driving or vibration techniques) prescribed by the NC Wildlife Resources Commission, the National Marine Fisheries Service and the NC Division of Marine Fisheries. No in-water work is permitted between February 15 and June 30 of any year, without prior approval from the NC Division of Water Resources and the NC Wildlife Resources Commission. In addition, the permittee shall conform to the NCDOT policy entitled "Stream Crossing Guidelines for Anadromous Fish Passage (May 12, 1997) at all times.
4. Compensatory mitigation for impacts to 0.370 acres of wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Division of Mitigation Services (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. DMS has indicated in a letter dated September 7, 2022 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with DMS's Mitigation Banking Instrument signed July 28, 2010. [15A NCAC 02H .0506(c)]
5. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization, including all non-commercial borrow and waste sites associated with the project, shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
6. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]
7. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
8. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification. [15A NCAC 02H.0506(b)(3)]
9. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
10. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
11. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification. [15A NCAC 02H.0506(b)(2)]
12. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate

Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H .0506(b)(3) and (c)(3) and 15A NCAC 02B .0200]

- a. Design, installation, operation, and maintenance of all sediment and erosion control measures shall be equal to or exceed the requirements specified in the most recent version of the North Carolina Sediment and Erosion Control Manual, or for linear transportation projects, the NCDOT Sediment and Erosion Control Manual.
 - b. All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.
 - c. For borrow pit sites, the erosion and sediment control measures shall be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Surface Mining Manual. Reclamation measures and implementation shall comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971.
 - d. If the project occurs in waters or watersheds classified as Primary Nursery Areas (PNAs), SA, WS-1, WS-11, High Quality Waters (HQW), or Outstanding Resource Waters (ORW), then the sedimentation and erosion control designs shall comply with the requirements set forth in 15A NCAC 04B .0124, Design Standards in Sensitive Watershed. [15A NCAC 02H.0506(b)(3) and (c)(3); GC 4135]
13. Sediment and erosion control measures shall not be placed in wetlands or surface waters or within 5 feet of the top of bank without prior approval from DWR. [15A NCAC 02H.0506(b)(3) and (c)(3)]
14. Erosion control matting in riparian areas shall not contain a plastic or nylon mesh grid which can impinge and entrap small animals. Matting should be secured in place by staples, stakes, or wherever possible live stakes of native trees. Riparian areas are defined as a distance 25 feet from top of stream bank. [15A NCAC 02B.0201]
15. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, then design and placement of temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands, stream beds, or banks, adjacent to or upstream and downstream of the above structures. All sediment and erosion control devices shall be removed from wetlands and waters and the natural grade restored within two (2) months of the date that the Division of Energy, Mining and Land Resources (DEMLR) or locally delegated program has released the specific area within the project. [15A NCAC 02H.0506(b)(3) and (c)(3)]
16. As a condition of this 401 Water Quality Certification, the bridge demolition and construction must be accomplished in strict compliance with the most recent version of NCDOT's Best Management Practices for Construction and Maintenance Activities. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)]
17. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) where possible before entering the stream. To meet the requirements of NCDOT's NPDES permit NCS0000250, please refer to the most recent version of the North Carolina Department of Transportation Stormwater Best Management Practices Toolbox manual for

approved measures. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)]

18. All bridge construction shall be performed from the existing bridge, temporary work bridges, temporary causeways, or floating or sunken barges. If work conditions require barges, they shall be floated into position and then sunk. The barges shall not be sunk and then dragged into position. Under no circumstances should barges be dragged along the bottom of the surface water. [15A NCAC 02H .0506(b)(3)]
19. Bridge piles and bents shall be constructed using driven piles (hammer or vibratory) or drilled shaft construction methods. More specifically, jetting or other methods of pile driving are prohibited without prior written approval from the NCDWR first. [15A NCAC 02H.0506(b)(2)]
20. A turbidity curtain will be installed in the stream if driving or drilling activities occur within the stream channel, on the stream bank, or within 5 feet of the top of bank, or during the removal of bents from an old bridge. This condition can be waived with prior approval from the NCDWR. [15A NCAC 02H .0506(b)(3)]
21. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
22. Any rip-rap required for proper culvert placement, stream stabilization, or restoration of temporarily disturbed areas shall be restricted to the area directly impacted by the approved construction activity. All rip-rap shall be placed such that the original streambed elevation and streambank contours are restored and maintained and shall consist of clean rock or masonry material free of debris or toxic pollutants. Placement of rip-rap or other approved materials shall not result in destabilization of the stream bed or banks upstream or downstream of the area or be installed in a manner that precludes aquatic life passage. [15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c)]
23. Any rip-rap used for stream or shoreline stabilization shall be of a size and density to prevent movement by wave, current action, or stream flows, and shall consist of clean rock or masonry material free of debris or toxic pollutants. Rip-rap shall not be installed in the streambed except in specific areas required for velocity control and to ensure structural integrity of bank stabilization measures. [15A NCAC 02H .0506(b); 15A NCAC 02H .0507(c); 15A NCAC 02B .0201]
24. Native riparian vegetation must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02H.0506(b)(2)]
25. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
26. NCDOT shall be in compliance with the NCS00250 issued to the NCDOT, including the applicable requirements of the NCG01000.
27. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If the NCDWR

determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]

28. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]
29. The NCDOT will conduct a pre-construction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand the permit conditions and any potential issues at the permitted site. NCDWR staff shall be invited to the pre-construction meeting. [15A NCAC 02H.0506(b)(2) and (b)(3)]
30. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete the "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502(t)]
31. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]

This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

This approval and its conditions are final and binding unless contested [G.S. 143-215.5]. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

This Certification can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) within sixty (60) calendar days. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at <http://www.ncoah.com/> or by calling the OAH Clerk's Office at (919) 431-3000.

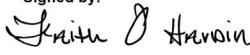
A party filing a Petition must serve a copy of the Petition on:

William F. Lane, General Counsel
Department of Environmental Quality
1601 Mail Service Center
Raleigh, NC 27699-1601

If the party filing the Petition is not the permittee, then the party must also serve the recipient of the Certification in accordance with N.C.G.S 150B-23(a).

This the 21st day of November 2025

Signed by:



3185423002EA45E...

Faith Hardin, Supervisor
401 Buffer Transportation Permitting Branch
DIVISION OF WATER RESOURCES

WQC No. 8634

NCDWR Project No.: _____ County: _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, **or** the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Agent's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Engineer's Certification

_____ Partial _____ Final

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____

Date _____

ROY COOPER

Governor

ELIZABETH S. BISER

Secretary

RICHARD E. ROGERS, JR.

Director



October 13, 2022

DWR # 20201520

Craven County

Mr. Chris Rivenbark
 Project Development and Environmental Analysis
 North Carolina Department of Transportation
 1598 Mail Service Center
 Raleigh, North Carolina, 27699-1598

Subject: APPROVAL of TAR-PAMLICO RIPARIAN BUFFER IMPACTS WITH ADDITIONAL CONDITIONS
 for the purpose of replacing Bridge No. 9 on SR 1112 (Mouth of the Creek Rd) in Beaufort County.
 TIP B-5614

Dear Mr. Rivenbark:

You have our approval for the impacts listed below for the purpose described in your application dated received by the Division of Water Resources (Division) September 8, 2022. These impacts are covered by the Tar-Pamlico Buffer Rules and the conditions listed below. Please note that you should get any other federal, state or local permits before proceeding with your project, including those required by (but not limited to) Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations.

The following impacts are hereby approved, provided that all of the Conditions listed below and all of the conditions of the Tar-Pamlico Buffer Rules [15A NCAC 02B .0734] are met. No other impacts are approved, including incidental impacts.

| Site | Zone 1 Impact (sq ft) | minus Wetlands in Zone 1 (sq ft) | = Zone 1 Buffers (not wetlands) (sq ft) | Zone 1 Buffer Mitigation Required (using 3:1 ratio) | Zone 2 Impact (sq ft) | minus Wetlands in Zone 2 (sq ft) | = Zone 2 Buffers (not wetlands) (sq ft) | Zone 2 Buffer Mitigation Required (using 1.5:1 ratio) |
|-----------|-----------------------|----------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------|----------------------------------|-----------------------------------------|-------------------------------------------------------|
| Bridge | 8204 | 19 | 8185 | n/a | 5423 | 0 | 5423 | n/a |
| Driveway | 1341 | 223 | 1118 | 3354 | 856 | 420 | 436 | 654 |
| Utilities | 1037 | 203 | 834 | n/a | 302 | 105 | 197 | n/a |
| Total | 10,582 | 445 | 10,137 | 3354 | 6,581 | 525 | 6,056 | 654 |

Zone 1 impacts = 9,545 sq ft; Zone 2 impacts = 6,279 sq ft
 n/a= impacts allowable upon authorization, no mitigation required.



North Carolina Department of Environmental Quality | Division of Water Resources
 512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
 919.707.9000

This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Authorization Certificate. If you change your project, you must notify the Division and you may be required to submit a new application package. If the property is sold, the new owner must be given a copy of this Authorization Certificate and is responsible for complying with all conditions. [15A NCAC 02B .0734]

If you are unable to comply with any of the conditions below, you must notify the Washington Regional Office within 24 hours (or the next business day if a weekend or holiday) from the time the permittee becomes aware of the circumstances.

The permittee shall report to the Washington Regional Office any noncompliance with the conditions of this Authorization Certificate and/or any violation of state regulated riparian buffer rules [15A NCAC 02B .0734]. Information shall be provided orally within 24 hours (or the next business day if a weekend or holiday) from the time the applicant became aware of the circumstances.

Additional Conditions:

1. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
2. This approval is associated with Water Quality Certification No. 4135 that was issued on October 13, 2022 for the aforementioned activity (DWR project No. 20201520).
3. Compensatory mitigation for impacts to 1,118 square feet of protected riparian buffers in Zone 1 shall be required at 3:1 ratio for a total of 3,354 square feet. Compensatory mitigation for impacts to 436 square feet of protected riparian buffers in Zone 2 shall be required at a 1.5:1 ratio for a total of 654 square feet (see buffer impact table). We understand that you have chosen to perform compensatory mitigation for impacts to protected buffers through use of the North Carolina Division of Mitigation Services (DMS). Mitigation for unavoidable impacts to Tar-Pamlico Riparian Buffers shall be provided in the Tar-Pamlico River Basin and done in accordance with 15A NCAC .02B .0295. The DMS has indicated in a letter dated September 7, 2022 that they will assume responsibility for satisfying the compensatory mitigation requirements for the above-referenced project, in accordance with DMS's Mitigation Banking Instrument signed June 14, 2016.
4. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
5. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]



6. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
7. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H.0506(b)(3) and (c)(3) and 15A NCAC 02B.0200]
8. Sediment and erosion control measures shall not be placed in wetlands or surface waters or within 5 feet of the top of bank without prior approval from DWR. [15A NCAC 02H.0506(b)(3) and (c)(3)]
9. Erosion control matting in riparian areas shall not contain a plastic or nylon mesh grid which can impinge and entrap small animals. Matting should be secured in place by staples, stakes, or wherever possible live stakes of native trees. [15A NCAC 02B.0201]
10. If placement of sediment and erosion control devices in the riparian buffer is unavoidable, then design and placement of temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of buffers, stream beds, or banks, adjacent to or upstream and downstream of the above structures. All sediment and erosion control devices shall be removed from buffers and waters and the natural grade restored within two (2) months of the date that the project was completed and stabilized. [15A NCAC 02H.0506(b)(3) and (c)(3)]
11. Pursuant to 15A NCAC 2B .0734 (11), all riparian buffers impacted by temporary fill or clearing activities or temporary sediment and erosion control devices shall be restored to preconstruction topographic and hydrologic conditions and replanted with comparable vegetation within two months of when construction is complete.
12. Stormwater runoff into the riparian buffer shall meet dispersed flow as defined in 15A NCAC 02H .1002 except as otherwise described in 15A NCAC 2B .0734(9).
13. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If the NCDWR determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]
14. The Permittee shall report any violations of this approval to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]



15. Upon completion of the project, the applicant shall complete the "Certification of Completion Form" to notify the NCDWR when all work included in the Buffer Authorization has been completed. [15A NCAC 02H.0502(f)]
16. A copy of this Approval shall be maintained on the construction site at all times. In addition, the Approval and all subsequent modifications, if any, shall be maintained with the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]

This approval and its conditions are final and binding unless contested. [G.S. 143-215.5]

This Authorization Certificate can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) **within sixty (60) calendar days**. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at <http://www.ncoah.com/> or by calling the OAH Clerk's Office at (919) 431-3000.


One (1) copy of the Petition must also be served to the North Carolina Department of Environmental Quality:

William F. Lane, General Counsel
Department of Environmental Quality
1601 Mail Service Center
Raleigh, NC 27699-1601

This Authorization shall expire five (5) years from the date of this letter.

This letter completes the review of the Division under the Tar-Pamlico Riparian Buffer Rules as described in 15A NCAC 02B .0734. Please contact Garcy Ward at 252-948-3917 or garcy.ward@ncdenr.gov if you have any questions or concerns.

Sincerely,

DocuSigned by:

9C9886312DCD474...

Richard e. Rogers, Jr., Director
Division of Water Resources

CC:

Tom Steffens, US Army Corps of Engineers, Washington Field Office
Jay Johnson, Division 2 Environmental Officer
Stephen Lane, NC Division of Coastal Management
Cathy Brittingham, NC Division of Coastal Management
Beth Harmon, NC Division of Mitigation Services
Garcy Ward, NC Division of Water Resources, Washington Regional Office
File Copy



Permit Class
NEW

Permit Number
5-23

STATE OF NORTH CAROLINA
Department of Environmental Quality
and
Coastal Resources Commission

Permit

for

☒ Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

☒ Excavation and/or filling pursuant to NCGS 113-229

Issued to **N.C. Department of Transportation, 1598 Mail Service Center, Raleigh, NC 27699-1598**

Authorizing development in **Beaufort** County at **Blounts Creek, Bridge No. 9 on SR 1112,**

as requested in the permittee's application dated **10/19/22 (MP-1) and**

9/7/22 (MP-5), including the attached workplan drawings (70) as referenced in Condition No. 1 of this permit.

This permit, issued on **January 6, 2023**, is subject to compliance with the application (where consistent with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

TIP No. B-5614, Replacement of Bridge No. 9

- 1) Unless specifically altered herein, all work authorized by this permit shall be carried out in accordance with the following attached workplan drawings:
Wetland and Surface Water Impacts (24 sheets): Dated as received 9/15/22.
Utility drawings (11 sheets): Dated as received 9/15/22.
Buffer impacts (10 sheets): Dated as received 9/15/22.
Roadway design drawings (25 sheets): Dated as received 10/20/22.
- 2) In accordance with commitments made by the permittee, the applicant shall implement the "U.S. Fish & Wildlife Service's Guidelines for Avoiding Impacts to the West Indian Manatee, *Trichechus manatus*: precautionary measures for construction activities in North Carolina's Waters".

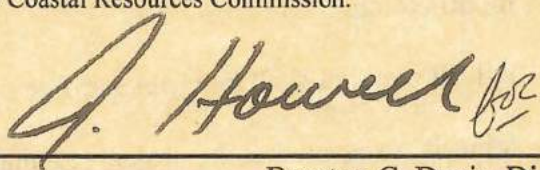
(See attached sheets for Additional Conditions)

This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date.

Signed by the authority of the Secretary of DEQ and the Chair of the Coastal Resources Commission.

This permit must be accessible on-site to Department personnel when the project is inspected for compliance.

Any maintenance work or project modification not covered hereunder requires further Division approval.



Braxton C. Davis, Director
Division of Coastal Management

All work must cease when the permit expires on

This permit and its conditions are hereby accepted.

No expiration date, pursuant to GS 136-44.7B

In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.


Signature of Permittee

ADDITIONAL CONDITIONS

- 3) In accordance with commitments made by the permittee, in order to protect anadromous fisheries resources in Blounts Creek, no in-water work shall be conducted between February 15 through June 30 of any year without prior approval of the N.C. Division of Coastal Management (DCM), in consultation with the appropriate resource agencies.
- 4) The installation and removal of the piles for the new bridge, temporary work bridges, and existing bridge shall be accomplished by pile driving and/or the use of a vibratory hammer and/or drilled shaft construction. Should the permittee and/or its contractor propose to utilize another type of pile installation, such as jetting, additional authorization from DCM shall be required.
- 5) All in-water pile installation operations shall be ramped up prior to full force installation to minimize the effects on aquatic species. In addition, a pile cushioning block shall be utilized during standard pile driving operations.
- 6) All construction and demolition access shall be through the use of the existing bridge, the partially constructed new bridge, the temporary work bridges, barges, and/or existing high ground areas.
- 7) During drilled shaft construction, excavated material from the drilled shaft shall be removed from the encasements directly into containment vessels.
- 8) No drill slurry, uncured concrete, or water that has been in contact with uncured concrete shall be allowed to contact waters of the State or waters that will enter waters of the State. Drilling fluids shall be disposed of in an upland disposal site. Water returning to the creek shall be of sufficient quality so as to not pose a threat to aquatic organisms or otherwise violate State water quality standards.
- 9) Barges shall be utilized only in areas of sufficient depth such that the barges avoid contact with the bottom and do not rest on the bottom during periods of low tide.

NOTE: If the permittee determines that a new mooring is necessary, then additional approval from DCM may be required.

- 10) No excavation or filling shall take place at any time in any vegetated wetlands or surrounding waters outside of the alignment of the areas indicated on the attached workplan drawings, without permit modification.
- 11) All fill material shall be clean and free of any pollutants except in trace quantities.
- 12) Material excavated at the project site may be used in fill areas associated with the project once properly dewatered or shall be removed from the site and taken to a high ground location.
- 13) All excavated materials shall be confined above normal high water and landward of regularly or irregularly flooded wetlands behind adequate dikes or other retaining structures to prevent spillover of solids into any wetlands or surrounding waters.
- 14) The temporary placement and/or double handling of any excavated or fill material within wetlands or waters of the State is not authorized, with the exception of the authorized temporary fill area.

ADDITIONAL CONDITIONS

- 15) Construction mats shall be utilized to support equipment within wetland areas to minimize temporary wetland impacts. The mats shall be removed immediately when no longer necessary.
- 16) The permittee shall minimize the need to cross wetlands in transporting equipment to the maximum extent practicable.
- 17) The placement of riprap shall be limited to the areas as depicted on the attached workplan drawings. The riprap material shall be clean and free from loose dirt or any pollutant except in trace quantities. The riprap material shall consist of clean rock or masonry materials such as but not limited to granite, marl, or broken concrete. It shall be of a size sufficient to prevent its movement from the approved alignment by wave action.
- 18) Construction staging areas shall be located only in upland areas, and not in wetlands or waters of the State.
- 19) The demolition plan for removal of the existing bridge structure shall be submitted to DCM for review and approval prior to commencement of the demolition activities.
- 20) Pilings from the temporary work bridges, as well as any remnant structures from previous bridges, shall be removed in their entirety. In the event that a piling or other component breaks during removal and cannot be removed in its entirety, the piling or other component may be cut off flush with the bed of the water body, and DCM shall be notified of each occurrence within one working day.
- 21) In accordance with the permit application, piles of the existing bridge may be cut off at the mudline due to the existing water line which is thought to be bored through the existing piles.
- 22) In accordance with the permit application, the existing bulkhead at the landing of the existing bridge on the eastern side of Blounts Creek shall remain in place.
- 23) The existing bridge, and existing bridge abutment on the western side of Blounts Creek, and the temporary work bridges, including piles, shall be removed within 90 days after they are no longer needed. However, if this timeframe occurs while the moratorium referenced in Condition No. 3 of this permit is in effect, then the existing bridge, and the existing bridge abutment on the western side of Blounts Creek, and the temporary work bridges, including piles, shall be removed within 90 days of the moratorium end date.
- 24) All reasonable efforts shall be made to contain all debris and excess materials associated with the authorized activities, with the intent that materials/debris do not enter wetlands or waters of the State, even temporarily.
- 25) Any waste materials or debris generated in the authorized activities, shall be disposed of at an approved upland site or shall be recycled in an environmentally appropriate manner provided appropriate authorizations are obtained from any relevant state, federal, or local authorities.

ADDITIONAL CONDITIONS

- 26) In accordance with commitments made by the permittee, Design Standards in Sensitive Watersheds shall be implemented during construction.

Impacts to Wetlands and Waters of the State, Riparian Buffers, and Compensatory Mitigation

NOTE: This project will temporarily impact approximately 335 square feet of Coastal Wetlands due to temporary fill, and approximately 100 square feet of Coastal Wetlands due to hand clearing. This project will permanently impact approximately 0.37 acres of 404 Wetlands due to permanent fill and will temporarily impact approximately 0.08 acres of 404 Wetlands due to hand clearing during bridge construction, and 0.15 acres of 404 Wetlands due to hand clearing during utility relocation. This project will permanently impact approximately 0.02 acres of surface waters due to the footprint of bridge bents, and will temporarily impact approximately 1.19 acres of surface waters.

NOTE: In accordance with the N.C. Division of Mitigation Services (DMS) letter dated 9/7/22, compensatory mitigation for permanent impacts of 0.37 acres of riparian wetlands and 1,118 square feet of Tar-Pamlico Riparian buffer associated with the authorized project shall be provided by the DMS in accordance with the DMS In-Lieu Fee Instrument dated 7/28/10.

- 27) Wetland areas to be temporarily impacted by clearing shall not be grubbed. There shall be no clearing of wetlands outside of the areas indicated for impacts on the attached workplan drawings without prior approval from DCM.
- 28) Any voids in shallow bottom habitat caused by the removal of the temporary work bridges shall be restored to the elevation of pre-existing conditions with suitable material. The permittee shall notify DCM's Transportation Field Representative in Morehead City to provide DCM with an opportunity to inspect the material for suitability prior to backfilling.
- 29) Due to the possibility that compaction, temporary fill, hand clearing and/or other site alterations might prevent the temporary Coastal Wetland impact areas from re-attaining pre-project wetland functions, the permittee shall provide an annual update on the Coastal Wetland areas temporarily impacted by this project. This annual update shall consist of photographs and a brief written report on the progress of these temporarily impacted areas in re-attaining their pre-project wetland functions. The permittee shall schedule a meeting with DCM to verify the extent and location of temporary impacts upon project completion. Within three years after project completion, the permittee shall hold another agency field meeting with DCM to determine if the Coastal Wetland areas temporarily impacted by this project have re-attained pre-project wetland functions. If at the end of three years DCM determines that the Coastal Wetland areas temporarily impacted by the project have not re-attained pre-project wetland functions, DCM will determine whether compensatory wetland mitigation shall be required. Additional agencies shall be invited to the field meetings, including but not necessarily limited to, the U.S. Army Corps of Engineers, N.C. Division of Water Resources, and N.C. Division of Marine Fisheries.

ADDITIONAL CONDITIONS

Utility Impacts

NOTE: Construction of the new bridge will also require relocation of power, telephone, and water utilities. Impacts resulting from these utility relocations have been included in the overall impacts for this project.

- 30) In accordance with the permit application, the abandoned overhead power and telephone cables and poles located across Blounts Creek shall be removed.
- 31) Any waterline relocation or other alterations to the water system shall be approved by the Public Water Supply Section (PWS Section, Plan Review Unit, 1634 Mail Service Center, Raleigh, NC 27699-1634) prior to water system alteration.

NOTE: Please be aware of separation requirements in regards to water/sewer according to 15A NCAC 18C Section .0906 Rules Governing Public Water Systems. Check with the local water system for cross-connection requirements for this project. Public Water Supply Section guidelines are listed in Appendix B, Figure 2 in the Rules Governing Public Water Systems but the water system may have additional requirements. Contact the N.C. Division of Water Resources, Public Water Supply Plan Review Section at (910) 796-7215 with any questions.

- 32) Any utility work associated with this project that is not specifically depicted on the attached workplan drawings, or described within the attached permit application, shall require approval from DCM, either under the authority of this permit, or by the utility company obtaining separate authorization.

Sedimentation and Erosion Control

- 33) Turbidity curtains shall be used at all times to isolate all in-water work areas from the adjacent waters of Blounts Creek, including but not limited to pile installation and pile removal. The turbidity curtains shall be of sufficient length and effectiveness to prevent a visible increase in the amount of suspended sediments in adjacent waters. The turbidity curtains shall encircle the immediate work area, but, shall not impede navigation. The turbidity curtains shall be properly maintained and retained in the water until construction is complete and shall only be removed when turbidity within the curtains reaches ambient levels.
- 34) This project shall conform to all requirements of the N.C. Sedimentation Pollution Control Act and the N.C. Department of Transportation's (NCDOT's) Memorandum of Agreement with the N.C. Division of Energy, Mineral and Land Resources.
- 35) In order to protect water quality, runoff from construction shall not visibly increase the amount of suspended sediments in adjacent waters.

ADDITIONAL CONDITIONS

General

- 36) The permittee and/or its contractor shall adhere to the conditions outlined in the "Boater Safety Plan During Construction of Bridge No. 9".
- 37) In accordance with commitments made by the permittee, the permittee shall contact the N.C. Wildlife Resources Commission (WRC) at 252-917-2663 to allow WRC to prepare for the anticipated action at least one month prior to the start of construction and at least one week prior to short duration closures and temporary disruptions to boater access underneath the existing and new bridges over Blounts Creek.
- 38) During construction and/or demolition of the bridges and work bridges, the permittee shall make every attempt to allow the same navigation that is currently possible in Blounts Creek, upstream and downstream of the existing bridge. If this is not possible, then adequate notice shall be provided to the public that navigation will be limited during construction and/or demolition. The notice shall include an estimate of the amount of time that the limited navigation will occur.
- 39) In accordance with the attached workplan drawings, the authorized temporary work bridges shall be elevated a minimum of 3 feet above the normal water level of Blounts Creek as measured from the low chord of the structure.
- 40) No attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work following completion of construction.
- 41) The permittee shall exercise all available precautions in the day-to-day operation of the facility to prevent waste from entering the adjacent waters and wetlands.
- 42) If it is determined that additional permanent and/or temporary impacts are necessary that are not shown on the attached workplan drawings or described in the authorized permit application, a permit modification and/or additional authorization from DCM may be required. In addition, any changes in the approved plan may also require a permit modification and/or additional authorization from DCM. The permittee shall contact a representative of DCM prior to commencement of any such activity for this determination and any permit modification.
- 43) Development authorized by this permit shall only be conducted on lands owned by NCDOT and/or its right-of-ways and/or easements. Utility Work associated with this project shall only be conducted on lands owned by the utility and/or its right-of-ways and/or easements.
- 44) The permittee and/or its contractor shall contact the DCM Transportation Project Field Representative in Morehead City at (252) 515-5408 to request a preconstruction conference prior to project initiation.
- 45) The permittee shall install and maintain at its expense any signal lights or signals prescribed by the U.S. Coast Guard, through regulation or otherwise, on the authorized facilities. At a minimum, permanent reflectors shall be attached to the structure in order to make it more visible during hours of darkness or inclement weather.

ADDITIONAL CONDITIONS

- 46) The N.C. Division of Water Resources (DWR) authorized the proposed project on 10/13/22 (DWR Project No. 20201520) under General Water Quality Certification No. 4135 and under the Tar-Pamlico Riparian Buffer Rules. Any violation of the Certifications approved by DWR shall be considered a violation of this CAMA permit.

NOTE: The U.S. Army Corps of Engineers authorized the proposed project under General Permit Number 50 (COE Action ID No. SAW-2022-01869), which was issued on 11/28/22.

NOTE: This project shall be constructed in accordance with the permittee's Stormwater Management Plan dated 8/7/19, and the provisions of the NCDOT's National Pollutant Discharge Elimination (NPDES) Stormwater Permit NCS000250, including the application requirements of the NCG01000.

NOTE: This permit does not eliminate the need to obtain any additional permits, approvals or authorizations that may be required.

NOTE: An application processing fee of \$475 was received by DCM for this project. This fee also satisfied the Section 401 application processing fee requirements of DWR.

Permit Class
MODIFICATION/MINOR

Permit Number
5-23

STATE OF NORTH CAROLINA
Department of Environmental Quality
and
Coastal Resources Commission

Permit

for

X Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

X Excavation and/or filling pursuant to NCGS 113-229

Issued to **N.C. Department of Transportation, 1598 Mail Service Center, Raleigh, NC 27699-1598**

Authorizing development in Beaufort County at Blounts Creek, Bridge No. 9 on SR 1112
(Mouth of The Creek Road), as requested in the permittee's application dated 6/18/2024, including the
attached workplan drawings (17): 11 dated 5/21/24; 3 dated 3/3/22; and 3 dated as received 6/18/24.

This permit, issued on July 1, 2024, is subject to compliance with the application (where consistent with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

- 1) Unless specifically altered herein, this Minor Modification authorizes the following: (1) relocation of one previously authorized power pole at Wetland Site 2 by approximately 30 feet to the east; (2) installation of approximately 831 linear feet of Brightspeed underground communications cable under Blounts Creek using a directional bore; and (3) additional relocation of approximately 715 linear feet of Brightspeed underground communications cable on the east side of the project area, all as depicted on the attached workplan drawings. [07J .0202].
- 2) The authorized Brightspeed underground communications cable shall be installed using a horizontal directional bore drilling method and it shall be located a minimum of 10 feet below the bottom contour of Blounts Creek. Entry and exit points of this activity, including disposal of material from the drilling activity, shall be outside of all wetlands and waters of the State. [07J .0202].

(See attached sheet for Additional Conditions)

This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date.

This permit must be accessible on-site to Department personnel when the project is inspected for compliance.

Any maintenance work or project modification not covered hereunder requires further Division approval.

All work must cease when the permit expires on

No expiration date, pursuant to GS 136-44.7B

In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.

Signed by the authority of the Secretary of DEQ and the Chair of the Coastal Resources Commission.



for Tancred Miller, Director
Division of Coastal Management

This permit and its conditions are hereby accepted.



Signature of Permittee

ADDITIONAL CONDITIONS

NOTE: This project will increase temporary impacts due to hand clearing in 404 Wetlands by approximately 0.01 acres, increase temporary impacts in the Tar-Pamlico Buffer Zone 2 due to hand clearing by 7 square feet, and decrease temporary impacts in the Tar-Pamlico Buffer Zone 1 due to hand clearing by 230 square feet.

NOTE: In accordance with commitments made by the permittee, all of the authorized work will be within areas previously surveyed for archaeological resources.

- 3) Wetland areas to be temporarily impacted by hand clearing shall not be grubbed. There shall be no clearing of wetlands outside of the areas indicated for impacts on the attached workplan drawings without prior approval from DCM. [07H .0208(a)(2)(B)].
- 4) This project shall conform to all requirements of the N.C. Sedimentation Pollution Control Act and the N.C. Department of Transportation's (NCDOT's) Memorandum of Agreement with the N.C. Division of Energy, Mineral and Land Resources [07J .0209(a)].
- 5) All mechanized equipment operated near surface waters shall be inspected and maintained regularly to prevent contamination of surface waters from fuels, lubricants, hydraulic fluids, or other toxic materials. Construction shall be staged in order to minimize the exposure of equipment to surface waters to the maximum extent practicable. Fueling, lubrication, and general equipment maintenance shall be performed in a manner to prevent, to the maximum extent practicable, contamination of surface waters by fuels and oils. [07H .0208(a)(2)(A); 07H .0208(a)(2)(B)].
- 6) If it is determined that additional permanent and/or temporary impacts are necessary that are not shown on the attached workplan drawing or described in the authorized permit application, a permit modification and/or additional authorization from DCM shall be required. In addition, any changes in the approved plan may also require a permit modification and/or additional authorization from DCM. The permittee shall contact a representative of DCM prior to commencement of any such activity for this determination and any permit modification [07J .0201].
- 7) All conditions and stipulations of the active permit remain in force under this Minor Modification unless specifically altered herein [07J .0209(a)].

NOTE: Development authorized by this permit shall only be conducted on lands owned by NCDOT and/or its right-of-ways and/or easements. Utility Work associated with this project shall only be conducted on lands owned by the utility and/or its right-of-ways and/or easements.

NOTE: This Minor Modification does not eliminate the need to obtain any additional permits, approvals or authorizations that may be required. This includes approval, if required, from the N.C. Division of Water Resources, the U.S. Army Corps of Engineers and/or the U.S. Coast Guard.

NOTE: This Minor Modification shall be attached to the original of Permit No. 5-23, which was issued on 1/6/23, and copies of both documents shall be readily available on site when a Division representative inspects the project for compliance.

NOTE: A minor modification application processing fee of \$100 was received by DCM for this project.



13 MAY 2025

BRIDGE PERMIT

(4-25-5)

WHEREAS by Title V of an act of Congress approved August 2, 1946, entitled "General Bridge Act of 1946," as amended (33 U.S.C. § § 525-533), the consent of Congress was granted for the construction, maintenance and operation of bridges and approaches thereto over the navigable waters of the United States;

AND WHEREAS the Secretary of Homeland Security has delegated the authority of Section 502(b) of that act to the Commandant, U.S. Coast Guard by Department of Homeland Security Delegation Number 0170.1;

AND WHEREAS before construction is commenced, the Commandant must approve the location and plans of any such bridge and may impose any specific conditions relating to the construction, maintenance and operation of the structure deemed necessary in the interest of public navigation, such conditions to have the force of law;

AND WHEREAS the Commandant of the Coast Guard has further delegated to the District Commander, by Section 1.01-60(b) of Title 33, Code of Federal Regulations, authority to issue permits for the construction, reconstruction, or alteration of bridges across navigable waters of the United States;

AND WHEREAS the - STATE OF NORTH CAROLINA - has submitted for approval the location and plans of a bridge to be constructed across Blounts Creek near Chocowinity, North Carolina;

NOW THEREFORE, This is to certify that the location and plans dated 21 August 2024 are hereby approved by the Commander Fifth Coast Guard District, subject to the following conditions.

1. No deviation from the approved plans may be made either before or after completion of the structure unless the modification of said plans has previously been submitted to and received the approval of the District Commander.

2. The construction of falsework, pilings, cofferdams or other obstructions, if required, shall be in accordance with plans submitted to and approved by the District Commander, prior to construction of the bridge. All work shall be so conducted that the free navigation of the waterway is not unreasonably interfered with and the present navigable depths are not impaired. Timely notice of any and all events that may affect navigation shall be given to the District Commander during construction of the bridge. The channel or channels through the structure shall be promptly cleared of all obstructions placed therein or caused by the construction of the bridge to the satisfaction of the District Commander, when in the judgment of the District Commander the construction work has reached a point where such action should be taken.

**Bridge across Blounts Creek, Beaufort
County, near Chocowinity, North Carolina****13 MAY 2025**
BRIDGE PERMIT
(4-25-5)

3. Issuance of this permit does not relieve the permittee of the obligation or responsibility for compliance with the provisions of any other law or regulation as may be under the jurisdiction of the U. S. Department of the Interior, Fish and Wildlife Service; U. S. Department of Commerce; National Marine Fisheries Service; State of North Carolina: Department of Environmental Quality, or any other Federal, state or local authority having cognizance of any aspect of the location, construction or maintenance of said bridge.

4. Clearance gauges shall be installed and maintained in a good and legible condition by and at the expense of the owner of the bridge when so required by the District Commander. The type of gauges and the locations in which they are to be installed will be submitted to the District Commander for approval.

5. All parts of the existing to-be-replaced Bridge No. 9 across Blounts Creek, mile 0.26, not utilized in the new bridge shall be removed down to or below the mud line and the waterway shall be cleared to the satisfaction of the District Commander. Such removal and clearance shall be completed when the District Commander determines that the construction of the new bridge, mile 0.26, has reached a point where such action should be taken

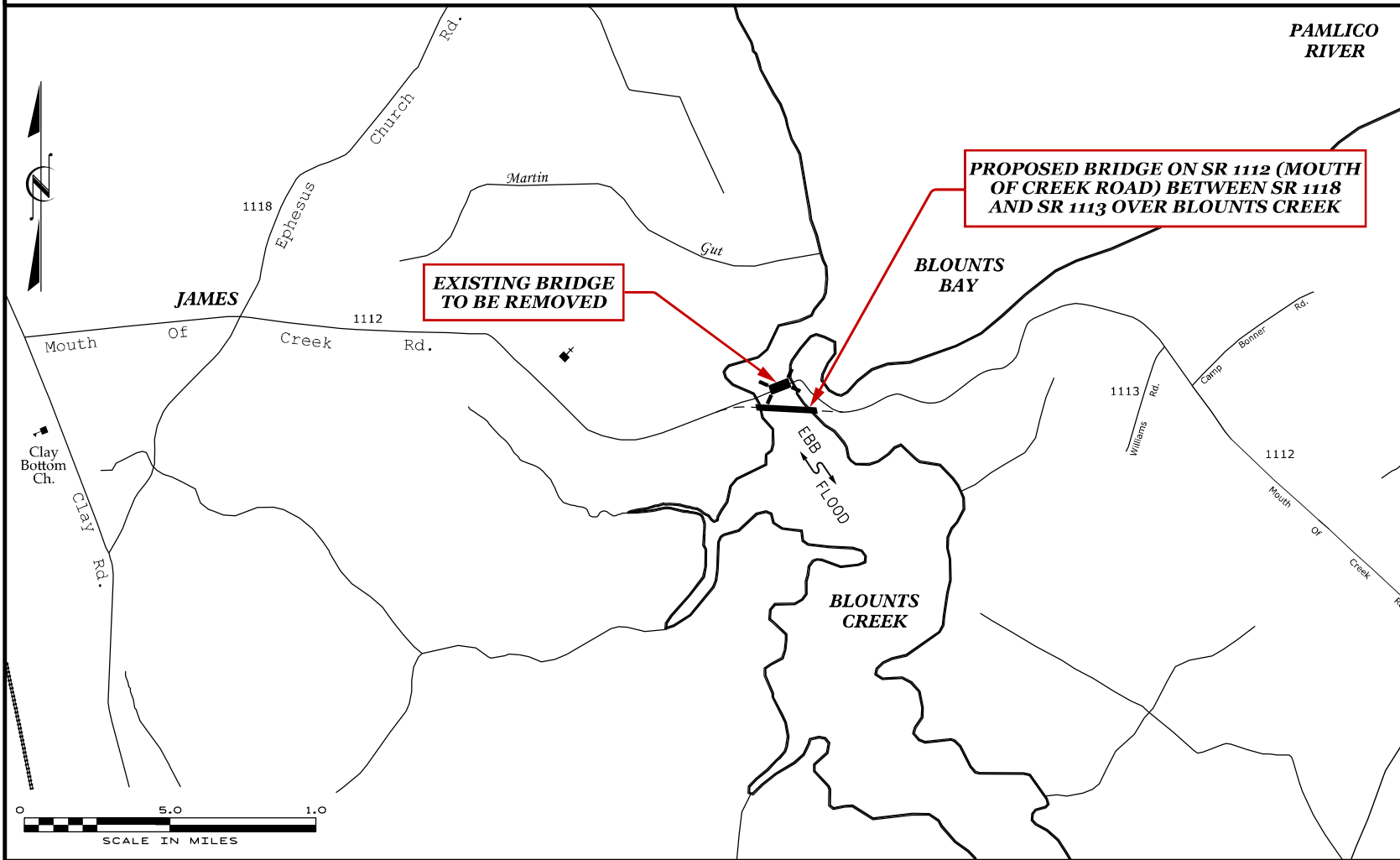
6. When the proposed bridge is no longer used for transportation purposes, it shall be removed in its entirety or to an elevation deemed appropriate by the District Commander and the waterway cleared to the satisfaction of the District Commander. Such removal and clearance shall be completed by and at the expense of the owner of the bridge upon due notice from the District Commander.

7. The approval hereby granted shall cease and be null and void unless construction of the bridges is commenced within three years and completed within five years after the date of this permit.

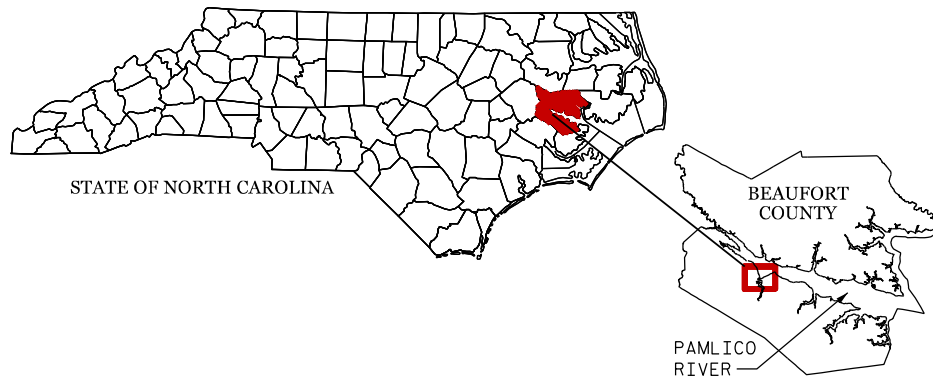
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J.C. VANN
Rear Admiral, U.S. Coast Guard
Commander, Fifth Coast Guard District

VICINITY MAP

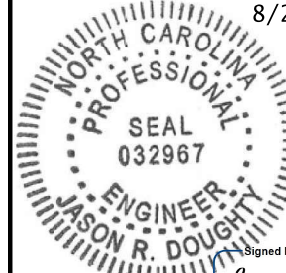


DATUM DESCRIPTION
VERTICAL DATUM: NAVD 88



THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

8/22/2024



Signed by:
Jason R Doughty
SF73FA2DEA974E8...

State of North Carolina

Department of Transportation
Raleigh, NC

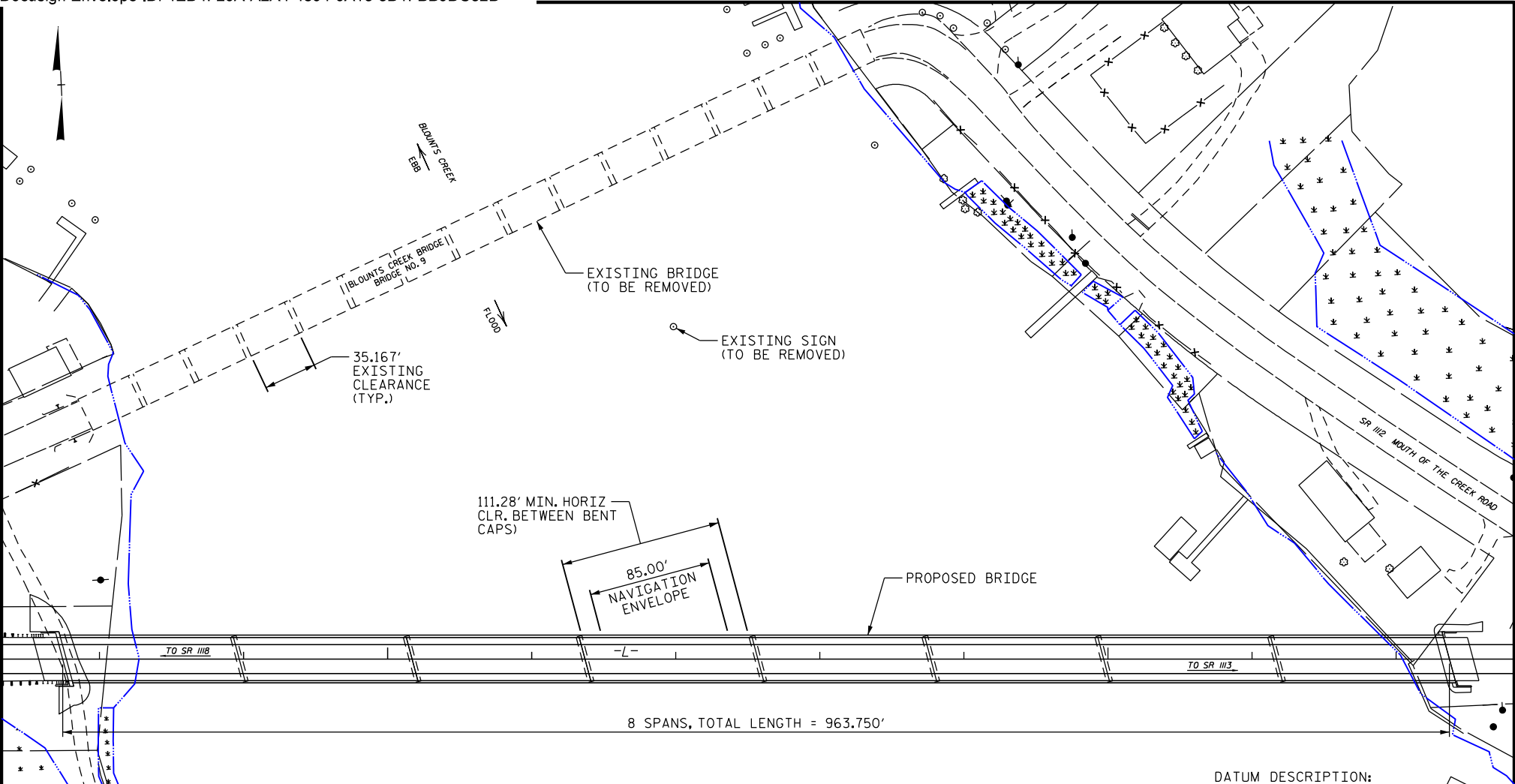
Proposed Bridge
No. 9 over Blounts Creek on
SR 1112 (Mouth of Creek Road)
mile point 0.26 from mouth of
Blounts Creek near
Chocowinity, NC

Beaufort County

State Project No. : B-5614

August 21, 2024

Sheet 1 of 5



DATUM DESCRIPTION:
VERTICAL DATUM NAVD 1988

BRIDGE PROJECT OVERVIEW: PLAN VIEW



THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE
WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE
DESIGN SPECIFICATIONS.

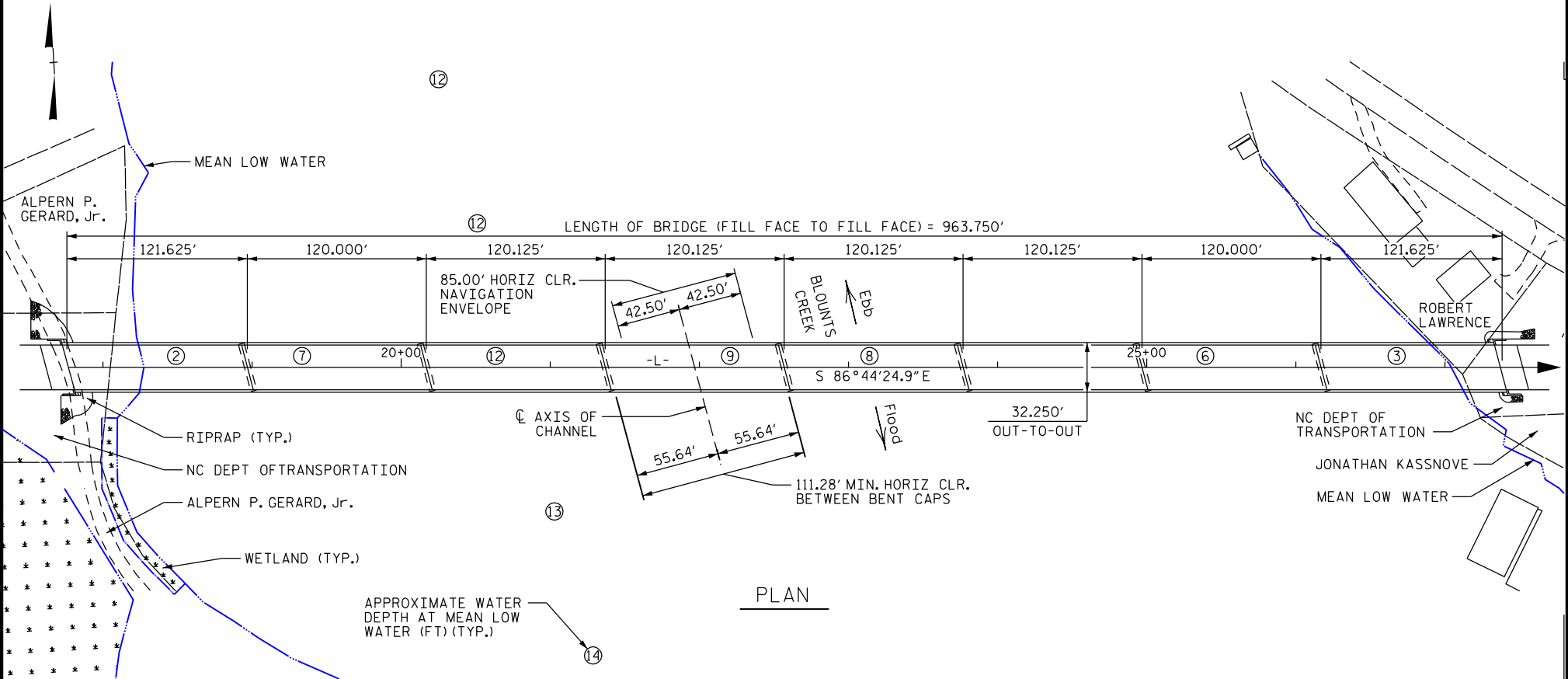
8/22/2024

NORTH CAROLINA
PROFESSIONAL
SEAL
032967
JASON R. DOUGHTY
ENGINEER

Signed by:
Jason R Doughty

SF73FA2DEA974E8...

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| State of North Carolina | |
| Department of Transportation Raleigh, NC | |
| Proposed Bridge No. 9 over Blounts Creek on SR 1112 (Mouth of Creek Road) mile point 0.26 from mouth of Blounts Creek near Chocowinity, NC | |
| Beaufort County | |
| State Project No. : B-5614 | |
| August 21, 2024 | Sheet 2 of 5 |



NOTE: NO EXISTING DEFINED NAVIGATION CHANNEL ON WATER BODY

⊕ DENOTES APPROXIMATE WATER DEPTH AT MEAN LOW WATER (FT)

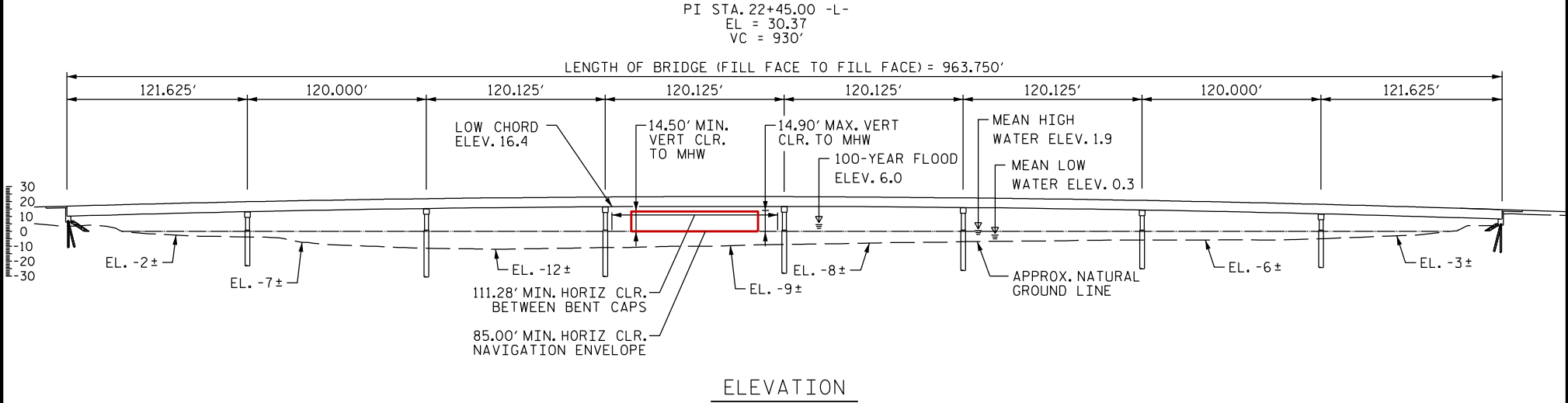
THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

8/22/2024

PROFESSIONAL SEAL
032967
JASON R. DOUGHTY
ENGINEER

Signed by:
Jason R Doughty
SF73FA2DEA974E8...

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DATUM DESCRIPTION: VERTICAL DATUM NAVD 1988 | |
| | |
| SCALE IN FEET | |
| State of North Carolina | |
| Department of Transportation Raleigh, NC | |
| Proposed Bridge No. 9 over Blounts Creek on SR 1112 (Mouth of Creek Road) mile point 0.26 from mouth of Blounts Creek near Chocowinity, NC | |
| Beaufort County | |
| State Project No. : B-5614 | |
| August 21, 2024 | Sheet 3 of 5 |



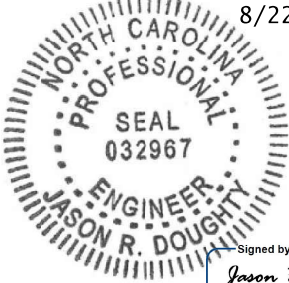
NOTE: NO EXISTING DEFINED NAVIGATION CHANNEL ON WATER BODY

DATUM DESCRIPTION:
VERTICAL DATUM NAVD 1988



THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

8/22/2024



Signed by:
Jason R Doughty
SF73FA2DEA974E8...

State of North Carolina

Department of Transportation
Raleigh, NC

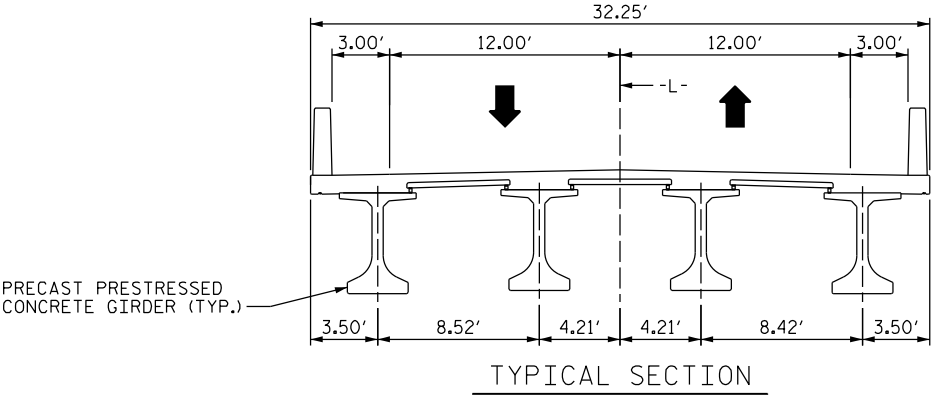
Proposed Bridge
No. 9 over Blounts Creek on
SR 1112 (Mouth of Creek Road)
mile point 0.26 from mouth of
Blounts Creek near
Chocowinity, NC

Beaufort County

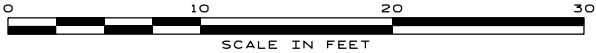
State Project No. : B-5614

August 21, 2024

Sheet 4 of 5



DATUM DESCRIPTION:
VERTICAL DATUM NAVD 1988



THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE
WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE
DESIGN SPECIFICATIONS.

8/22/2024



Signed by:
Jason R Doughty

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State of North Carolina

Department of Transportation
Raleigh, NC

Proposed Bridge
No. 9 over Blounts Creek on
SR 1112 (Mouth of Creek Road)
mile point 0.26 from mouth of
Blounts Creek near
Chocowinity, NC

Beaufort County

State Project No. : B-5614

August 21, 2024

Sheet 5 of 5

Wetland and Stream Permit Drawings



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

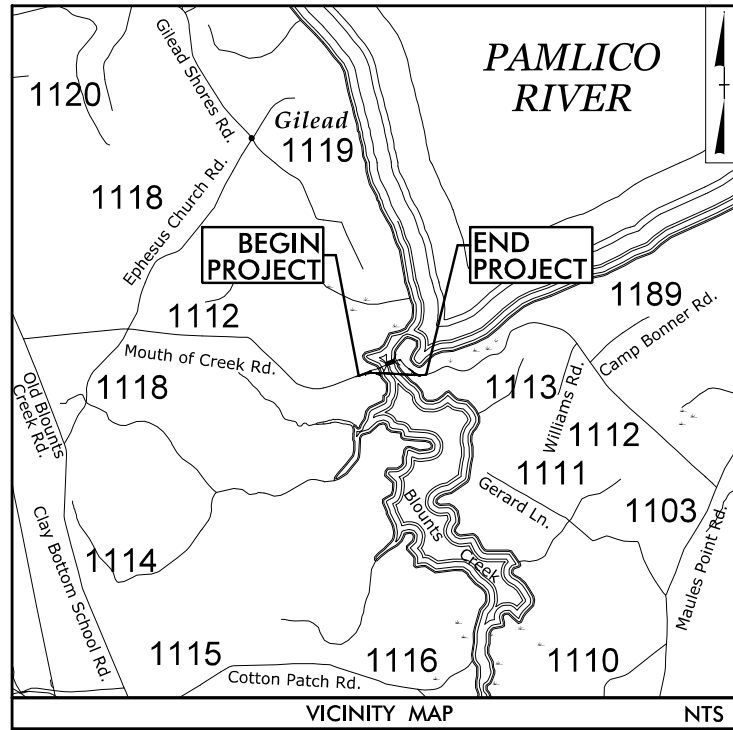
Waterbody Information

| | | | | | |
|------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------|
| 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
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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

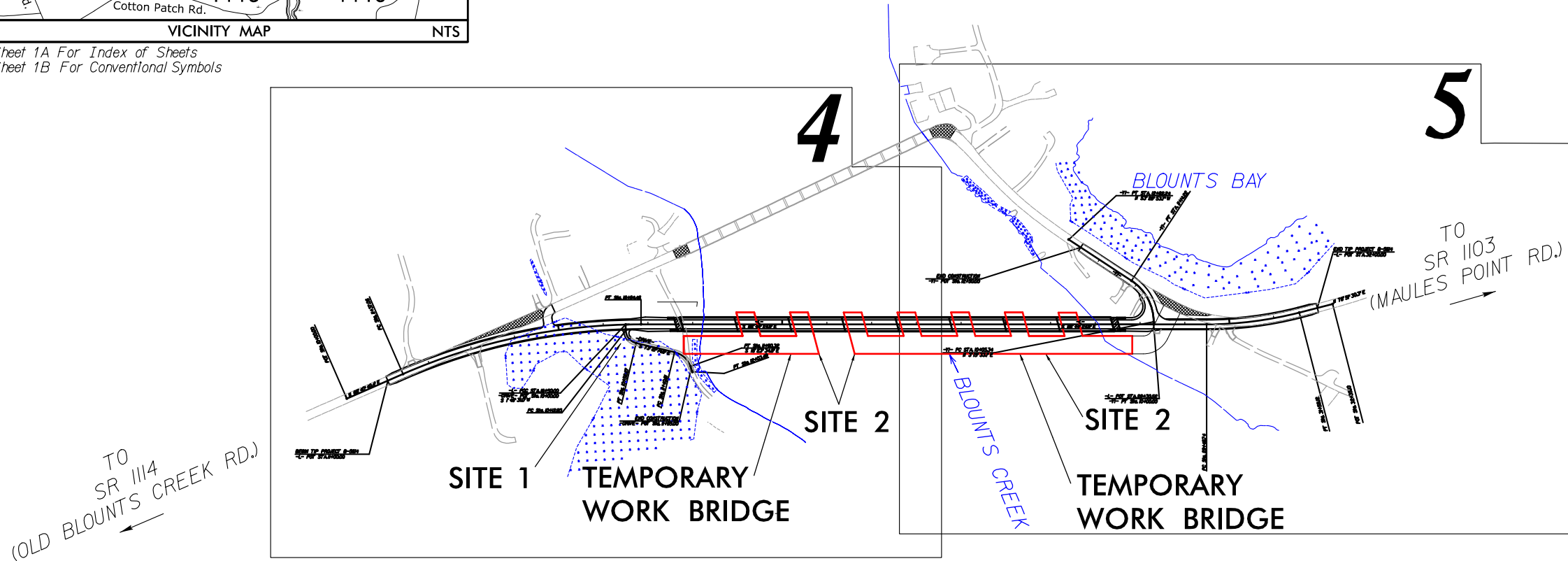
LOCATION: BRIDGE NO. 9 ON SR 1112
OVER BLOUNTS CREEK

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

WETLAND AND SURFACE WATER IMPACTS PERMIT

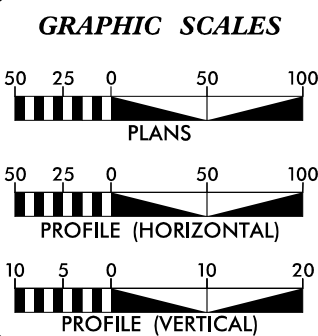
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | B-5614 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 45569.1.1 | N/A | PE | |
| | | | |
| | | | |

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 919.380.8760

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

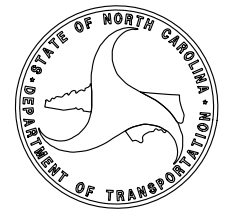
DAVID STUTTS, PE
NCDOT CONTACT

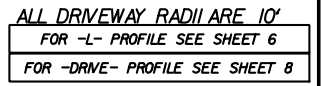
HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

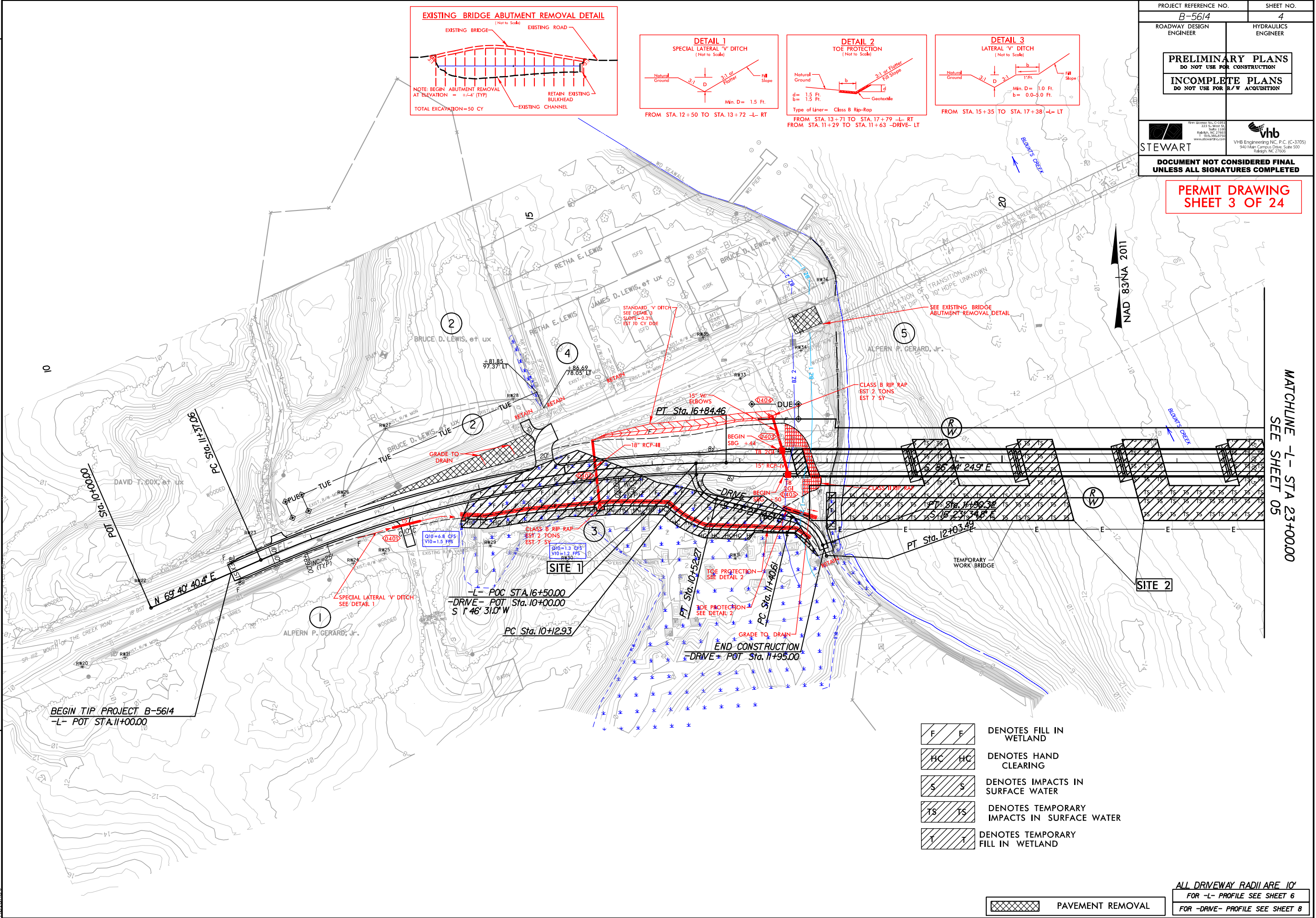




8/17/99

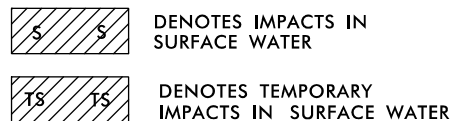
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REVISIONS



| | | | |
|--------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|--|
| PROJECT REFERENCE NO. B-5614 | | SHEET NO. 4 | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | | | |
| INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION | | | |
| STEWART | | VHB 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 3 OF 24



 PAVEMENT REMOVAL

REVISIONS

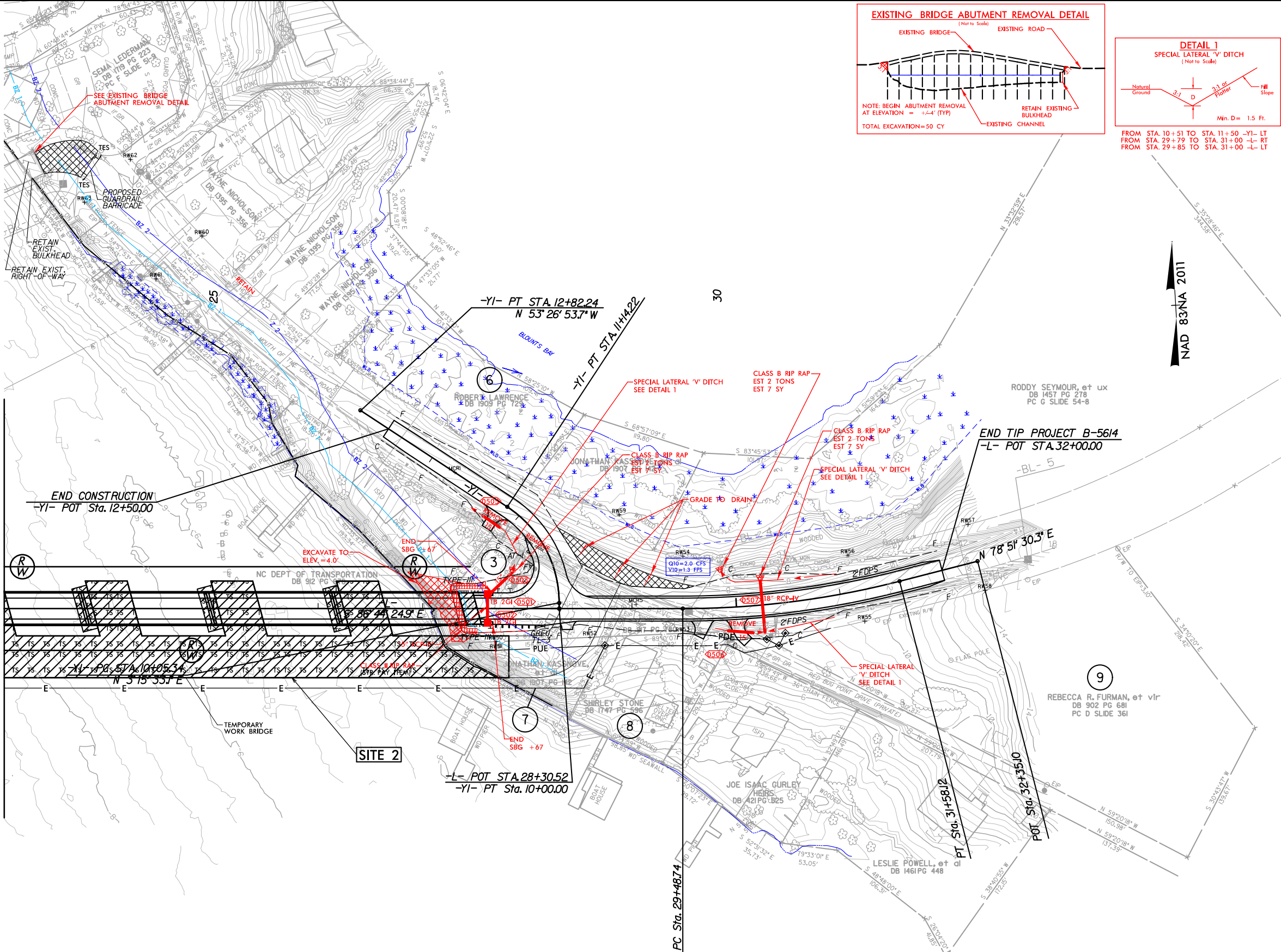
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8/17/99
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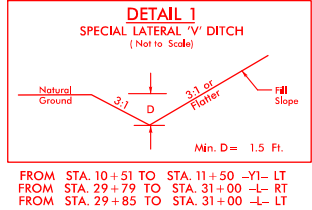
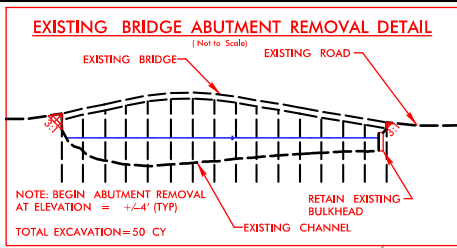
REVISIONS

MATCHLINE -L- STA 23+00.00
SEE SHEET 04



DENOTES IMPACTS IN SURFACE WATER
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

PAVEMENT REMOVAL





PERMIT DRAWING
SHEET 5 OF 24

| | |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 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 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

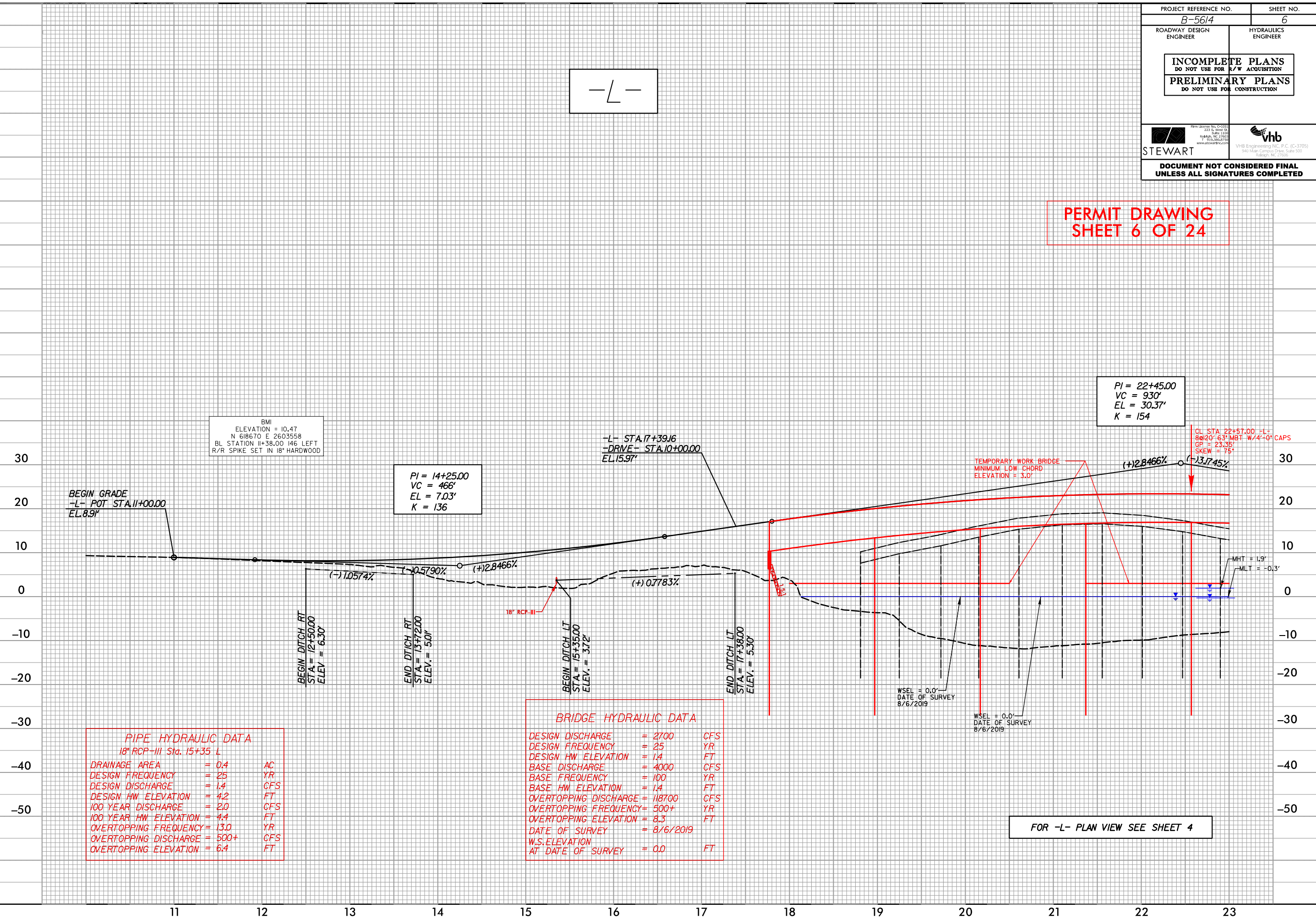
5/14/99

REVISIONS

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| PROJECT REFERENCE NO. B-5614 | | SHEET NO. 6 | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |
| <div style="border: 1px solid black; padding: 5px; text-align: center;">INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION</div> | | | |
|  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**



PIPE HYDRAULIC DATA
18" RCP-III Sta. 15+35 L

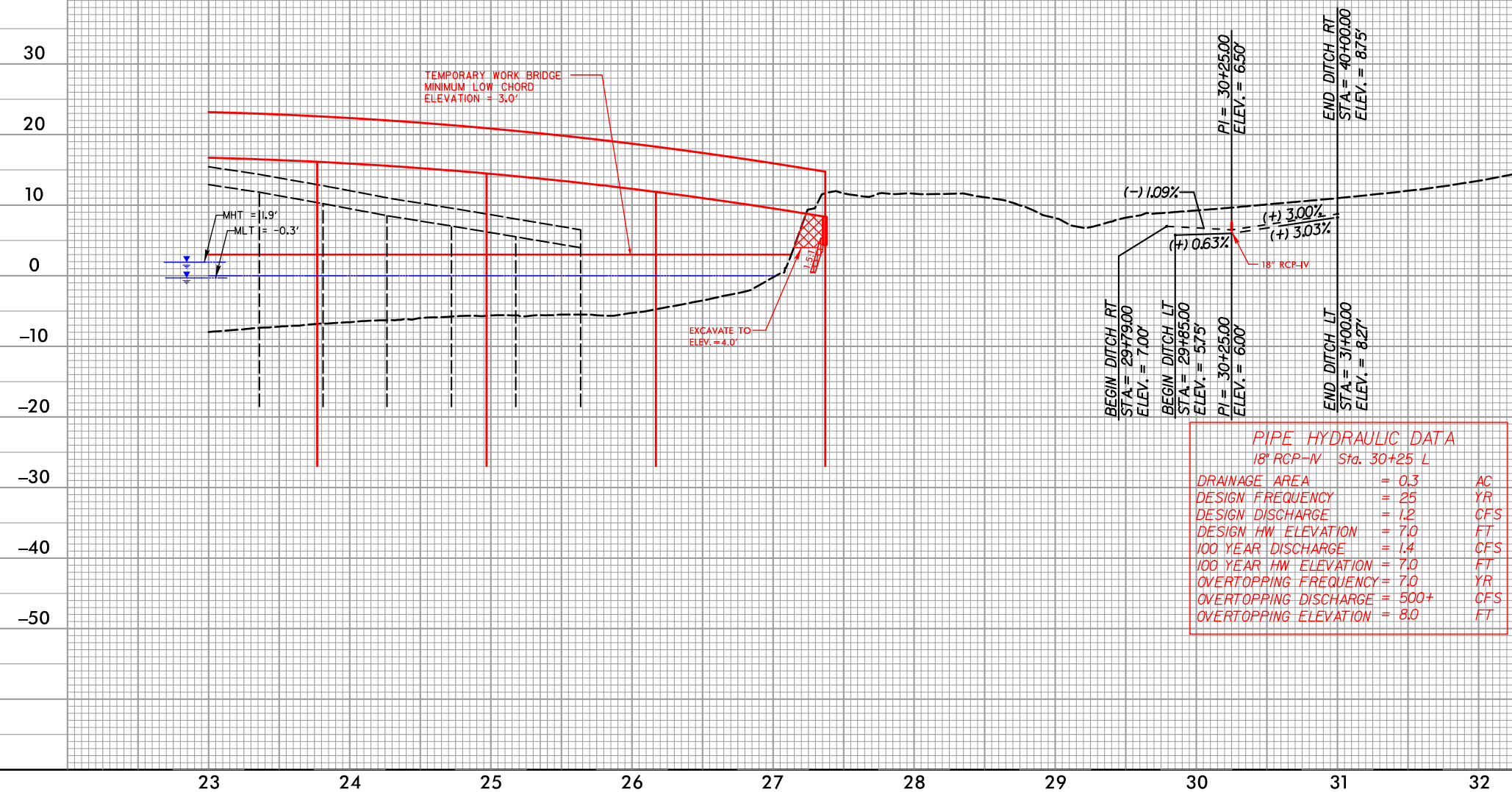
| | | |
|-----------------------|--------|-----|
| DRAINAGE AREA | = 0.4 | AC |
| DESIGN FREQUENCY | = 25 | YR |
| DESIGN DISCHARGE | = 1.4 | CFS |
| DESIGN HW ELEVATION | = 4.2 | FT |
| 100 YEAR DISCHARGE | = 2.0 | CFS |
| 100 YEAR HW ELEVATION | = 4.4 | FT |
| OVERTOPPING FREQUENCY | = 13.0 | YR |
| OVERTOPPING DISCHARGE | = 500+ | CFS |
| OVERTOPPING ELEVATION | = 6.4 | FT |

BRIDGE HYDRAULIC DATA

| | | |
|----------------------------------|------------|-----|
| DESIGN DISCHARGE | = 2700 | CFS |
| DESIGN FREQUENCY | = 25 | YR |
| DESIGN HW ELEVATION | = 14 | FT |
| BASE DISCHARGE | = 4000 | CFS |
| BASE FREQUENCY | = 100 | YR |
| BASE HW ELEVATION | = 14 | FT |
| OVERTOPPING DISCHARGE | = 118700 | CFS |
| OVERTOPPING FREQUENCY | = 500+ | YR |
| OVERTOPPING ELEVATION | = 8.3 | FT |
| DATE OF SURVEY | = 8/6/2019 | |
| W.S. ELEVATION AT DATE OF SURVEY | = 0.0 | FT |

FOR -L- PLAN VIEW SEE SHEET 4

PERMIT DRAWING
SHEET 7 OF 24





FOR -L- PLAN VIEW SEE SHEET 5

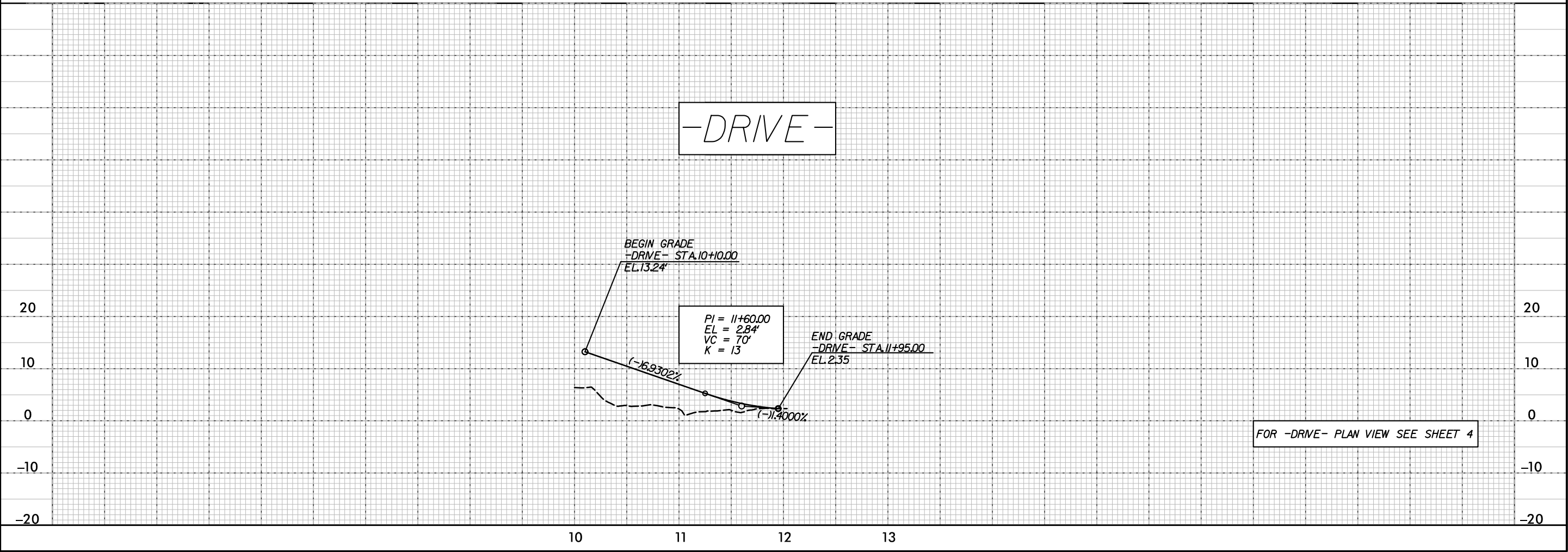
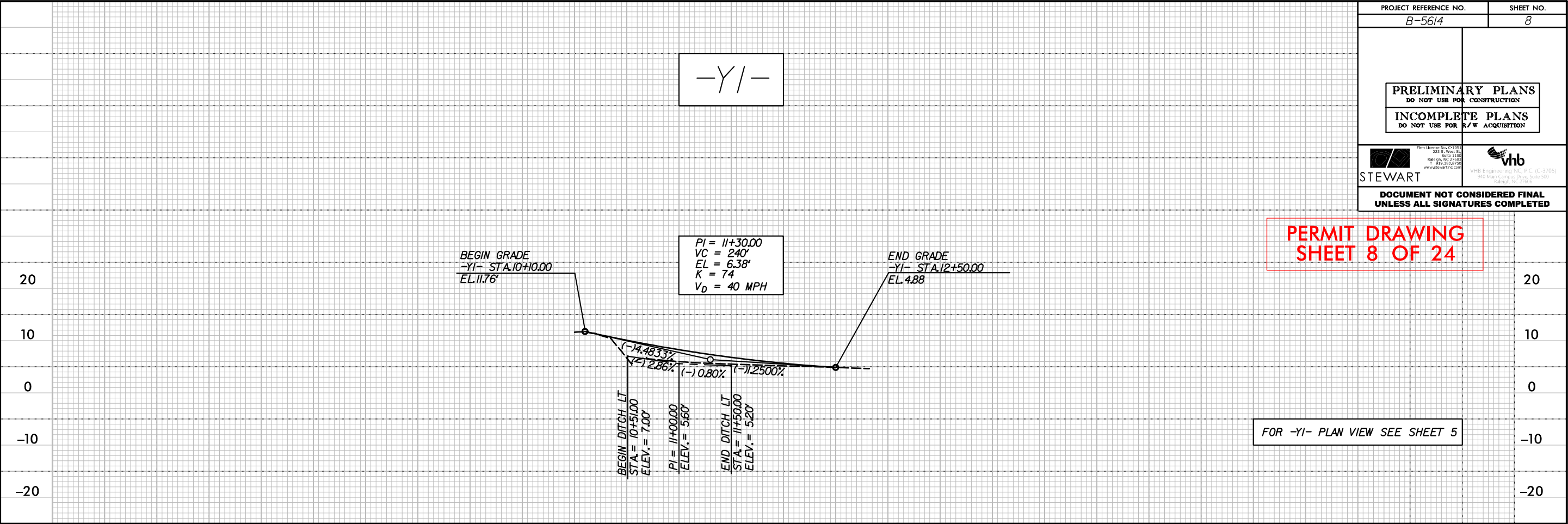
5/28/99

REVISIONS

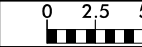
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| PROJECT REFERENCE NO. B-5614 | | SHEET NO. 8 | |
| <div>PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION</div> <div>INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</div> | | | |
|  STEWART | |  VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive,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

PERMIT DRAWING
SHEET 8 OF 24

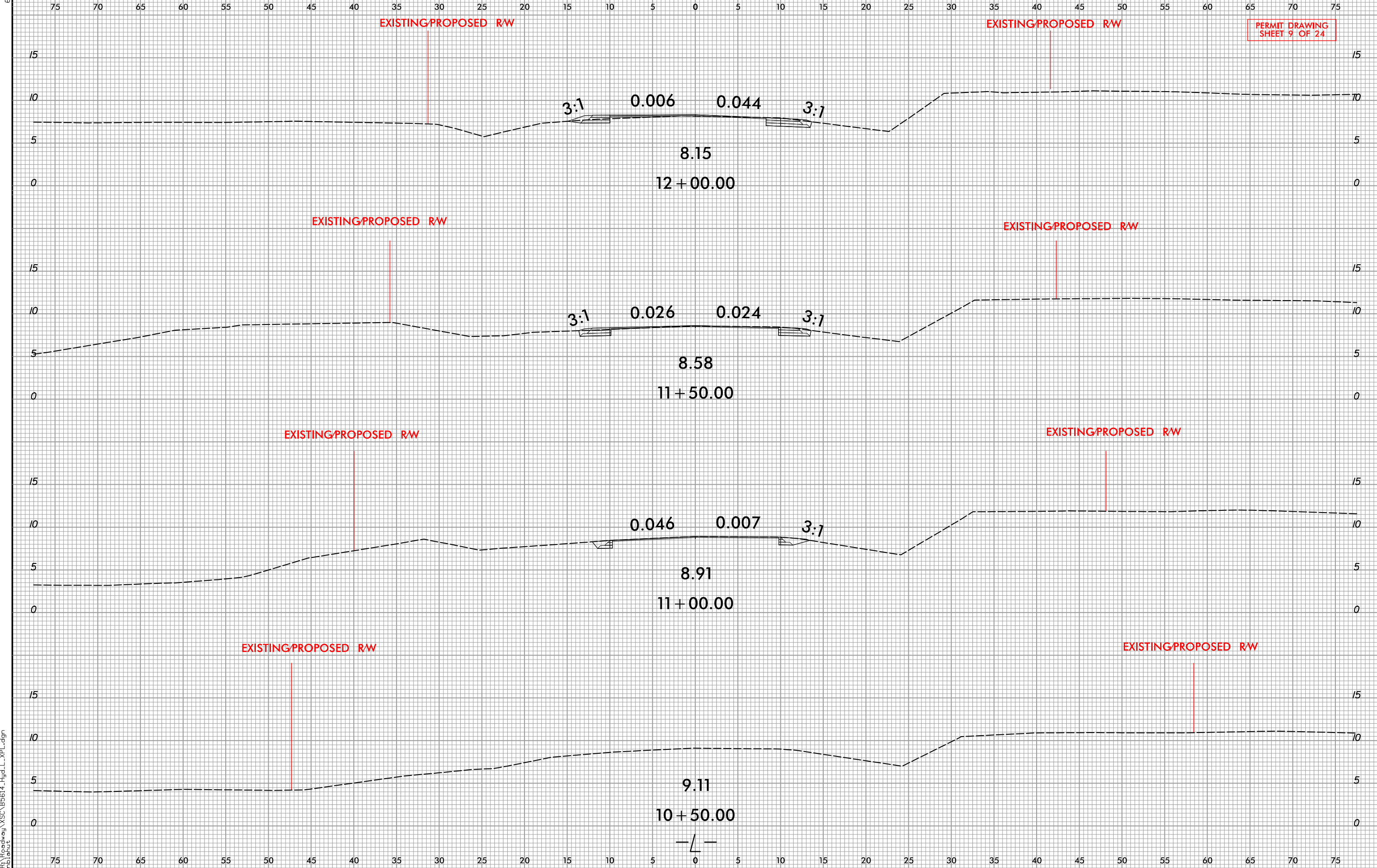


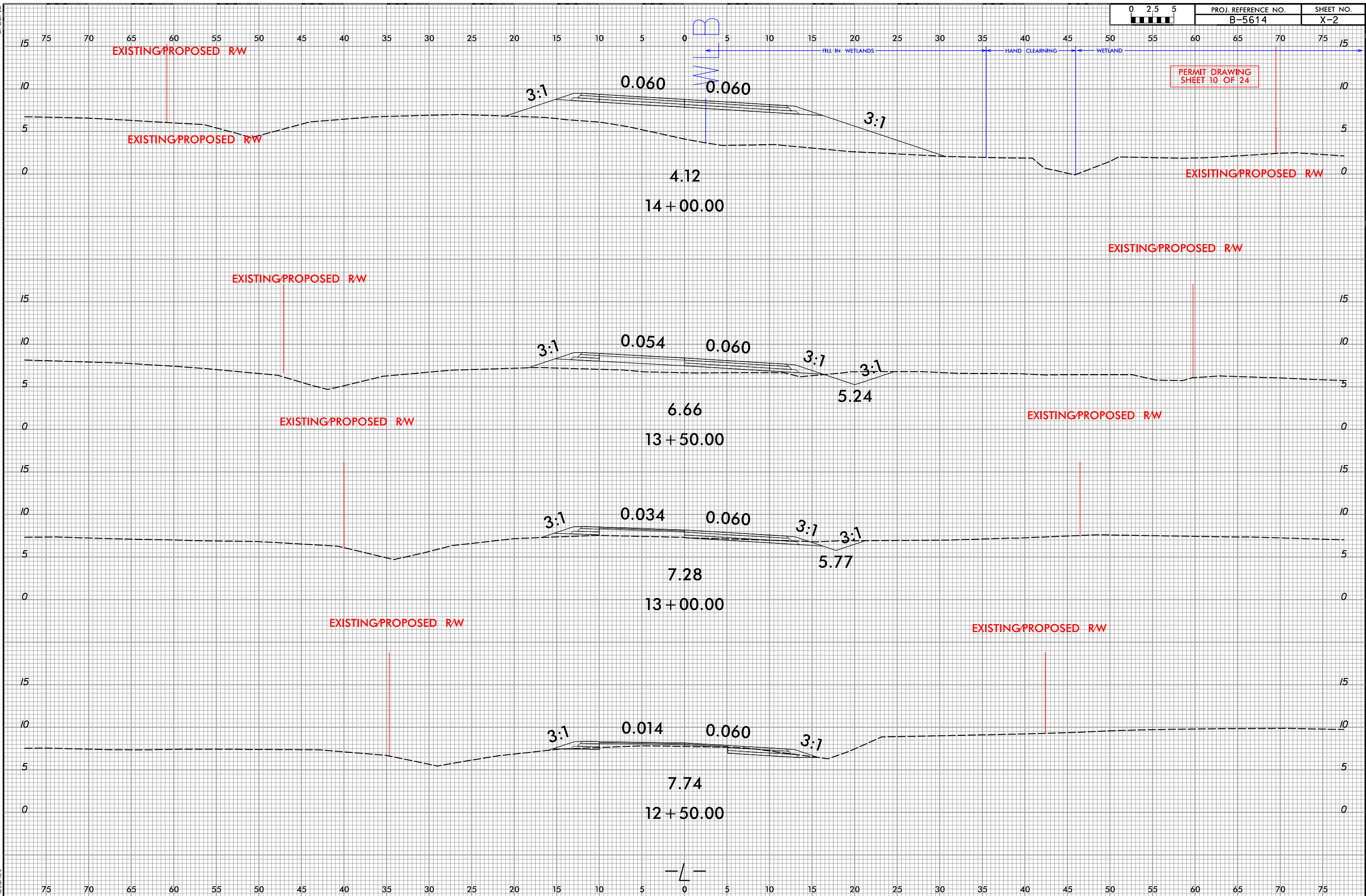
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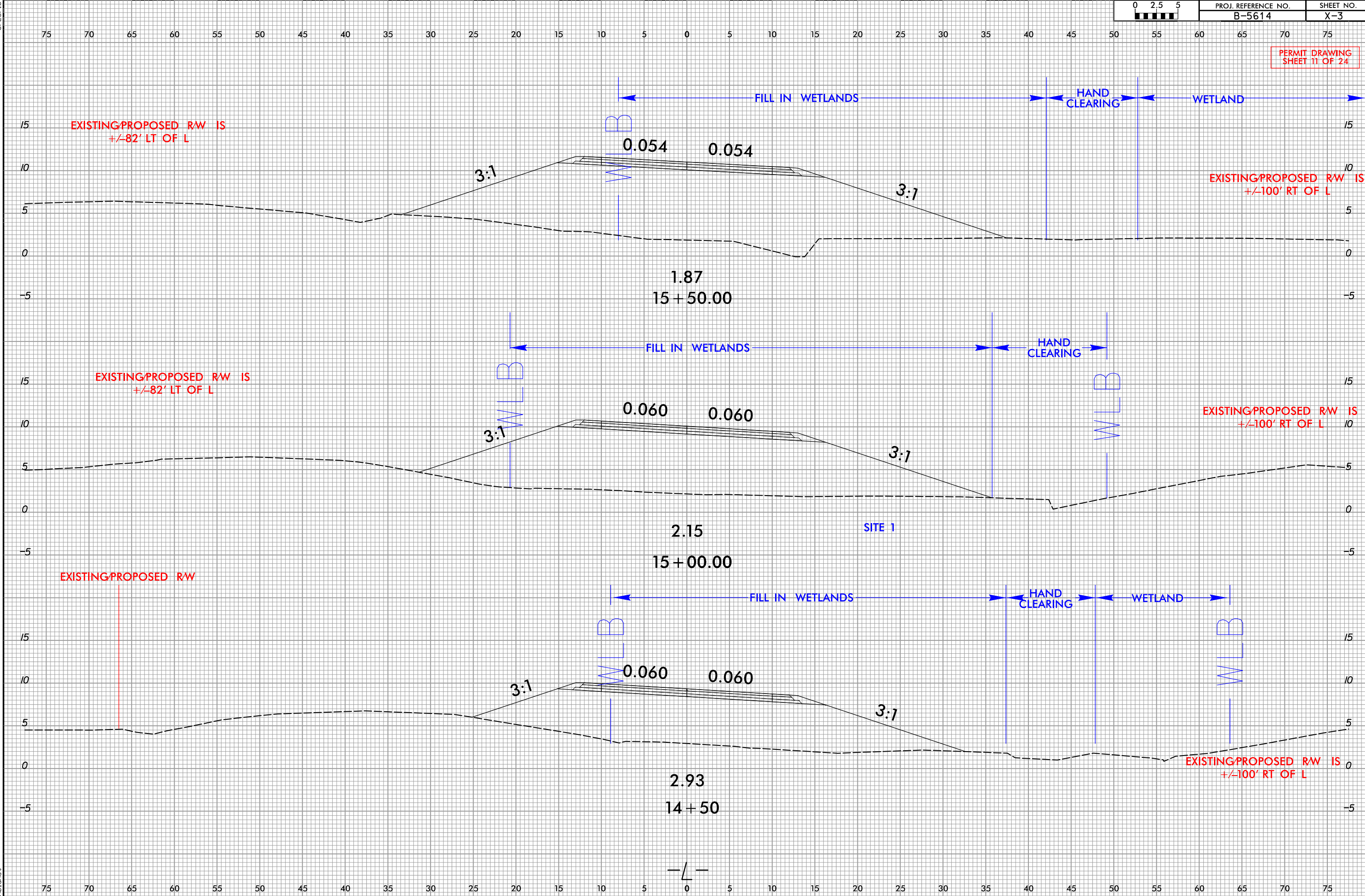


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B-5614

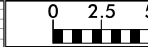
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X-1







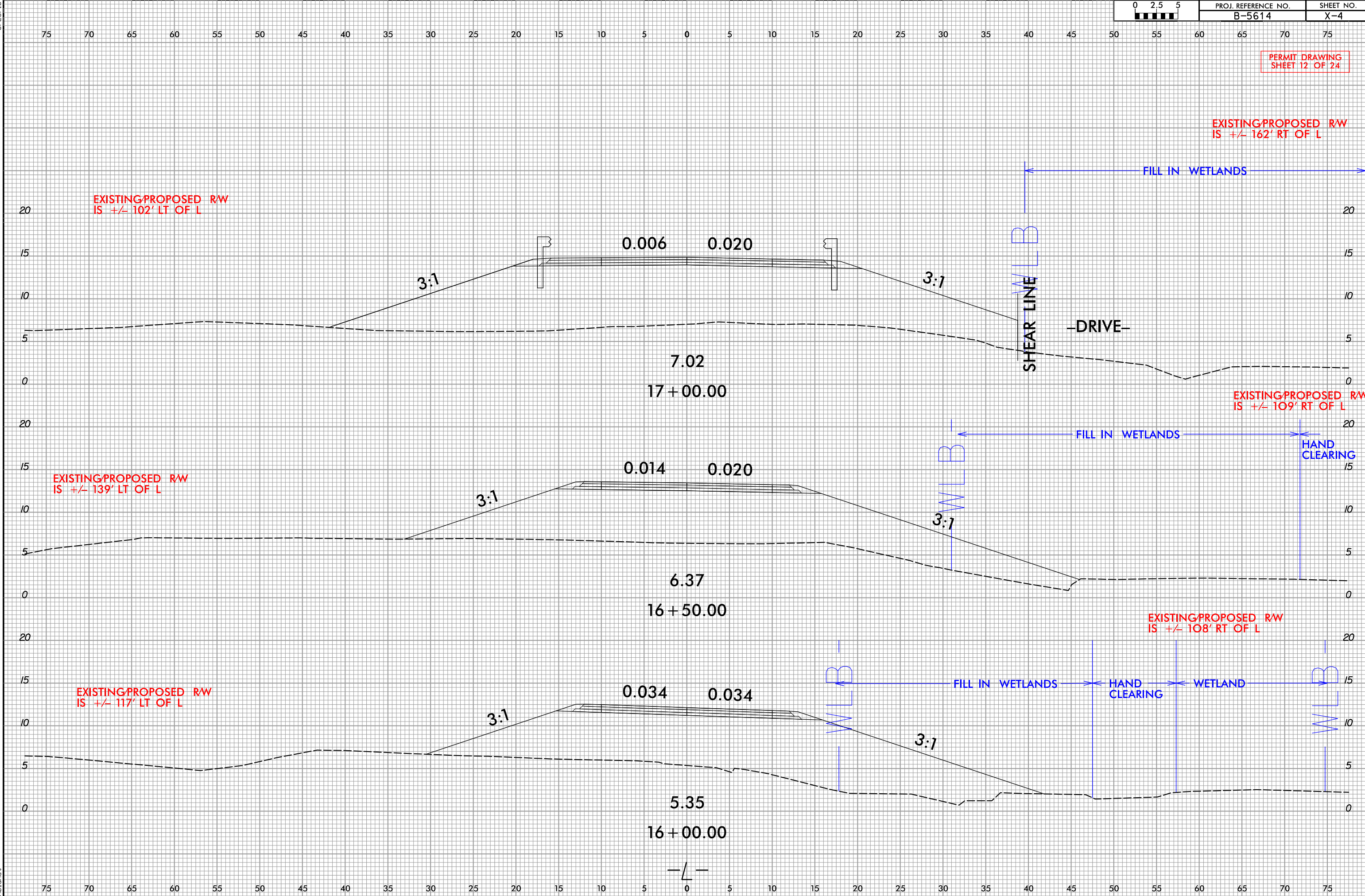
6/23/16



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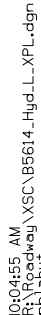
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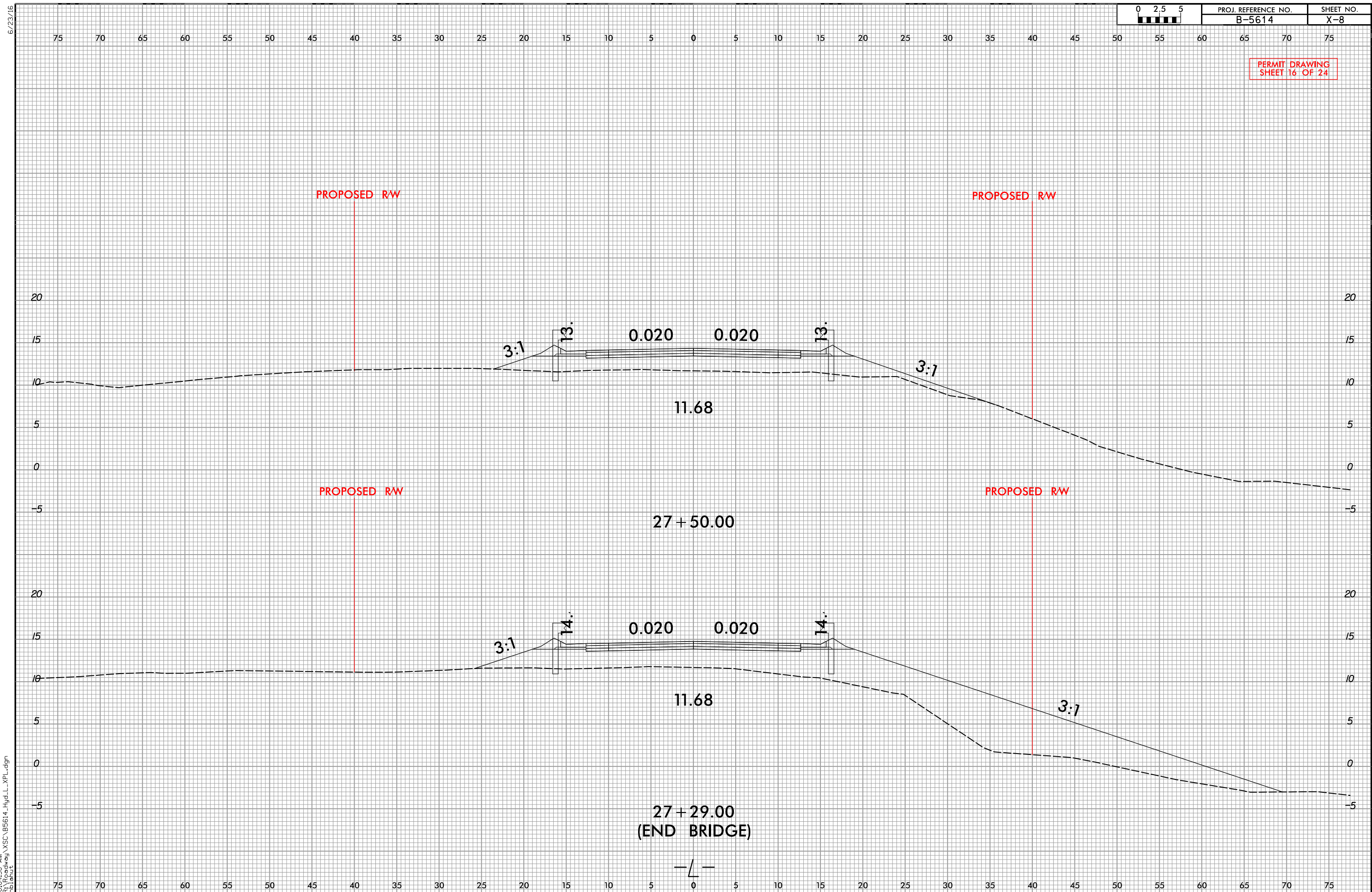
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SHEET 12 OF 24

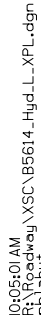


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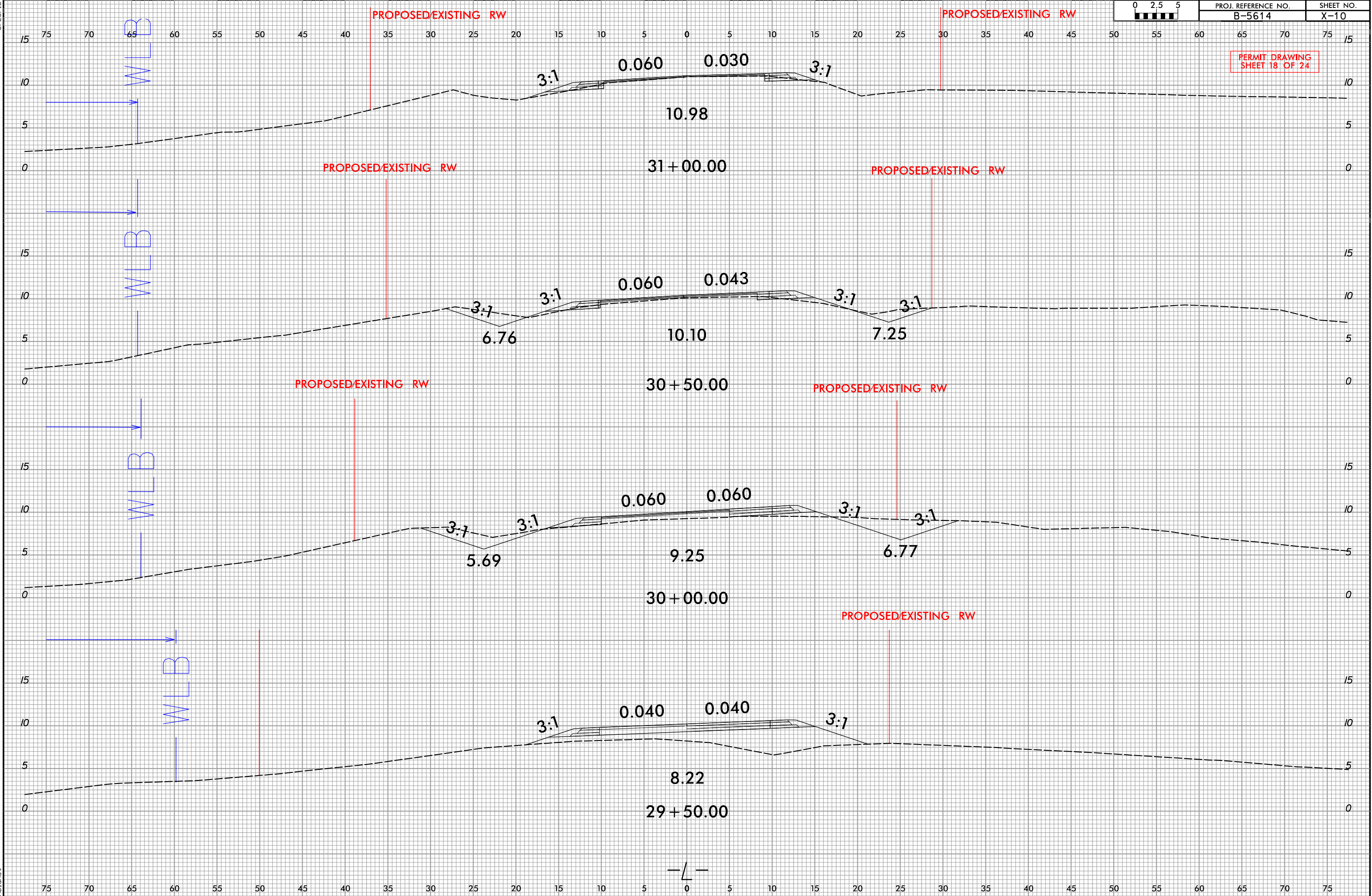


6/23/16

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| | B-5614 | X-10 |

PERMIT DRAWING
SHEET 18 OF 24



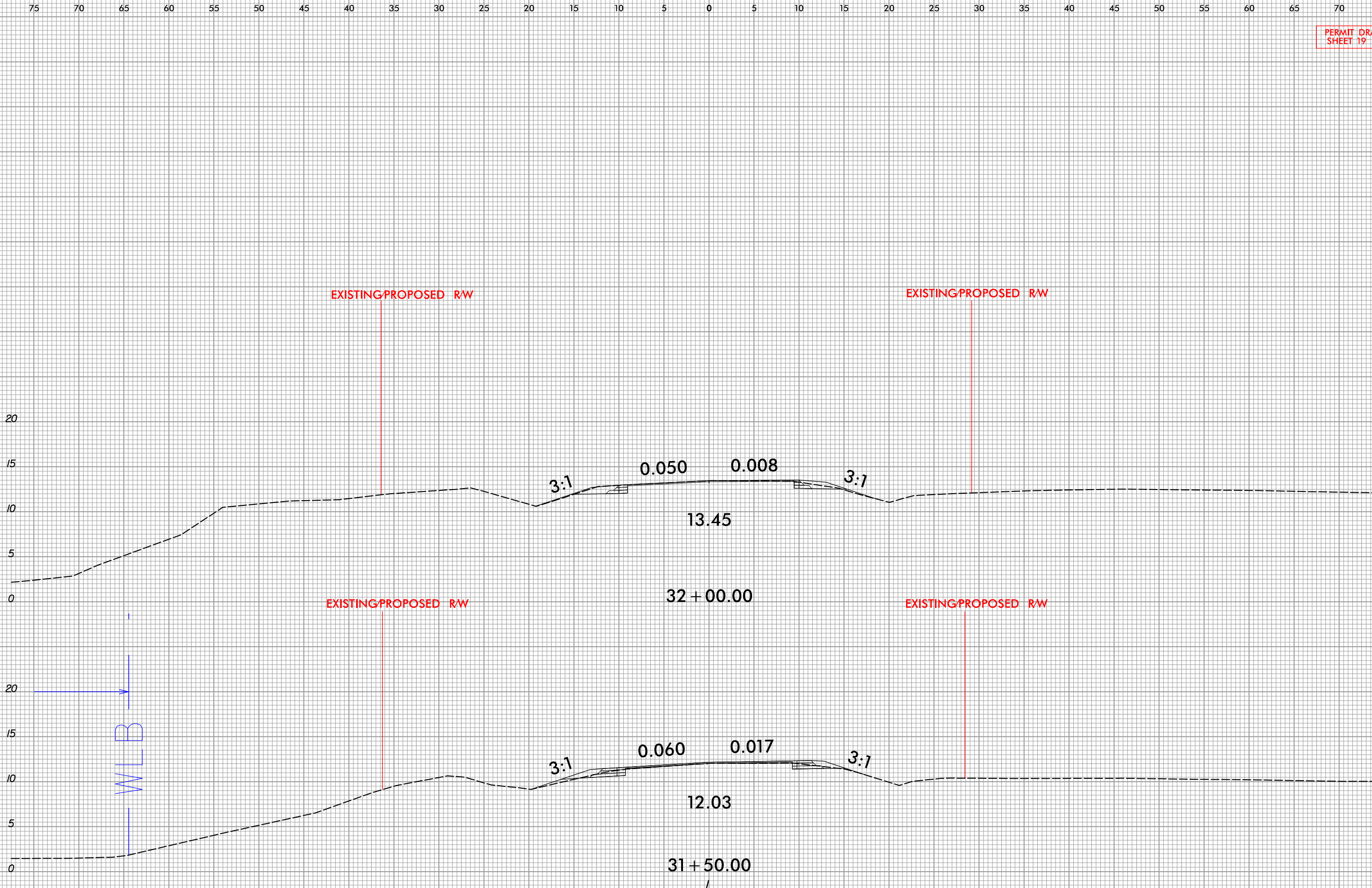
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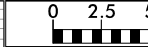
SHEET NO.
X-11

PERMIT DRAWING
SHEET 19 OF 24



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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

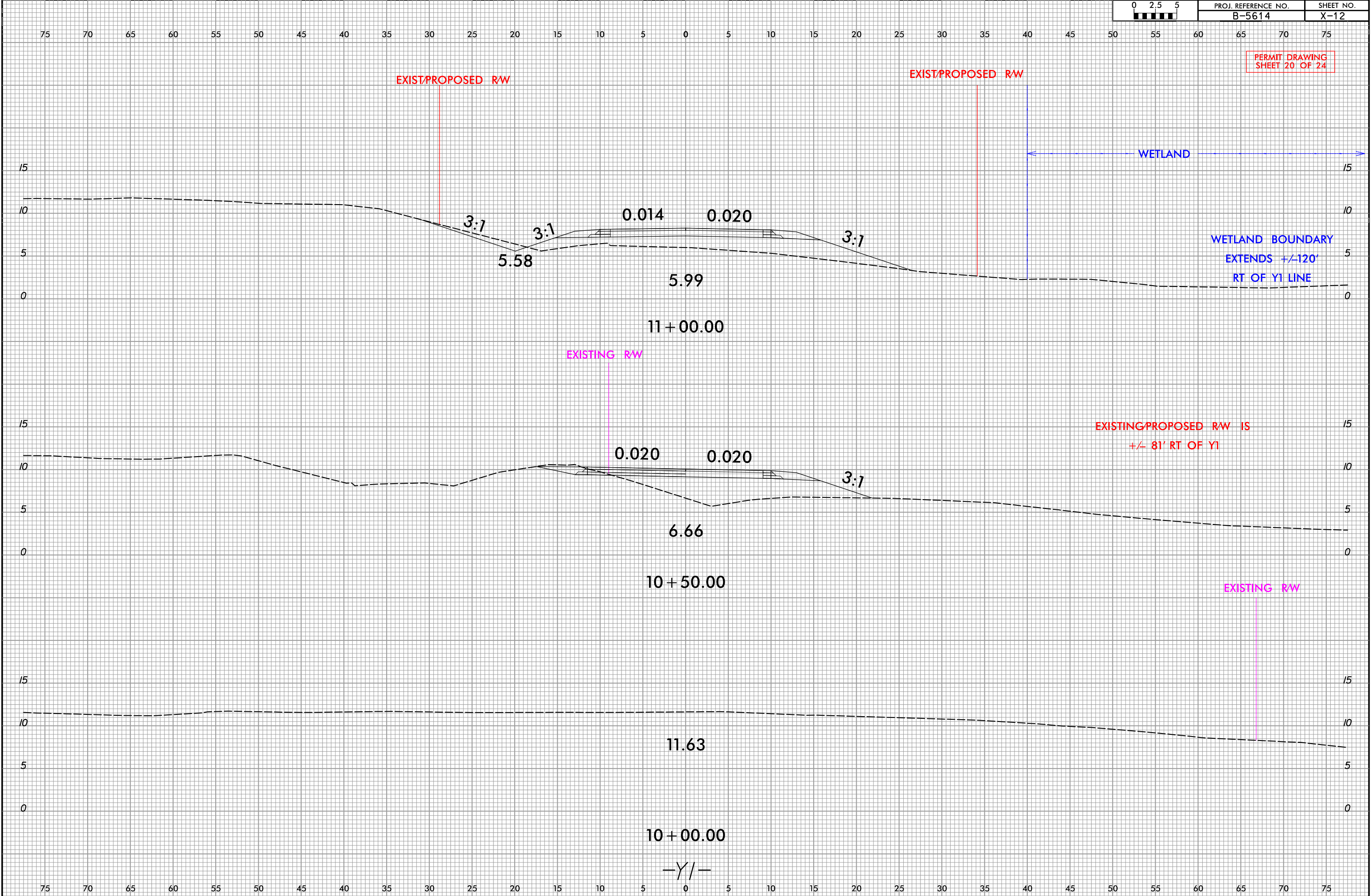
WETLAND BOUNDARY
EXTENDS +/-120'
RT OF Y1 LINE

EXISTING R/W

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

EXISTING R/W

10:05:20 AM
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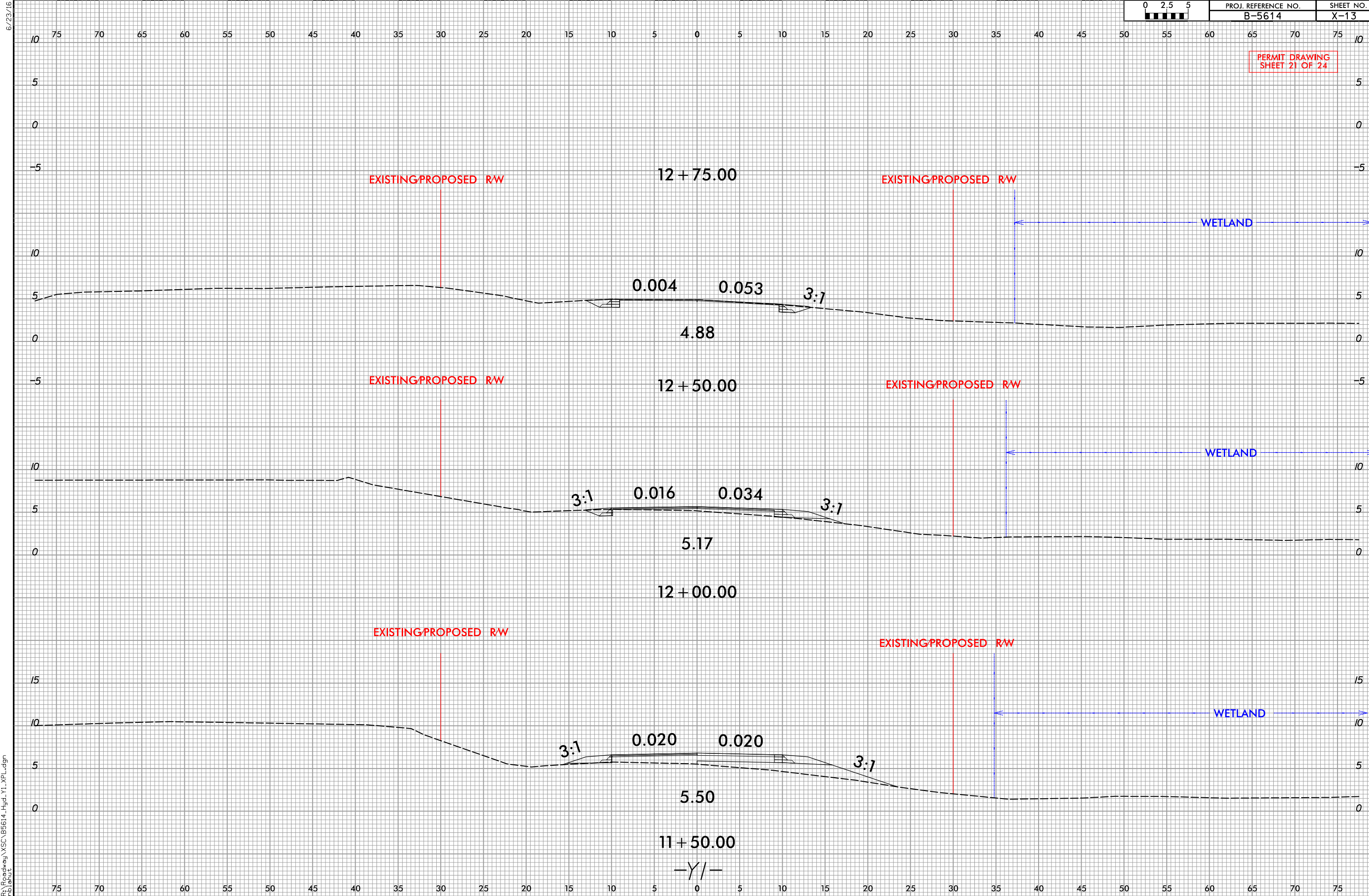
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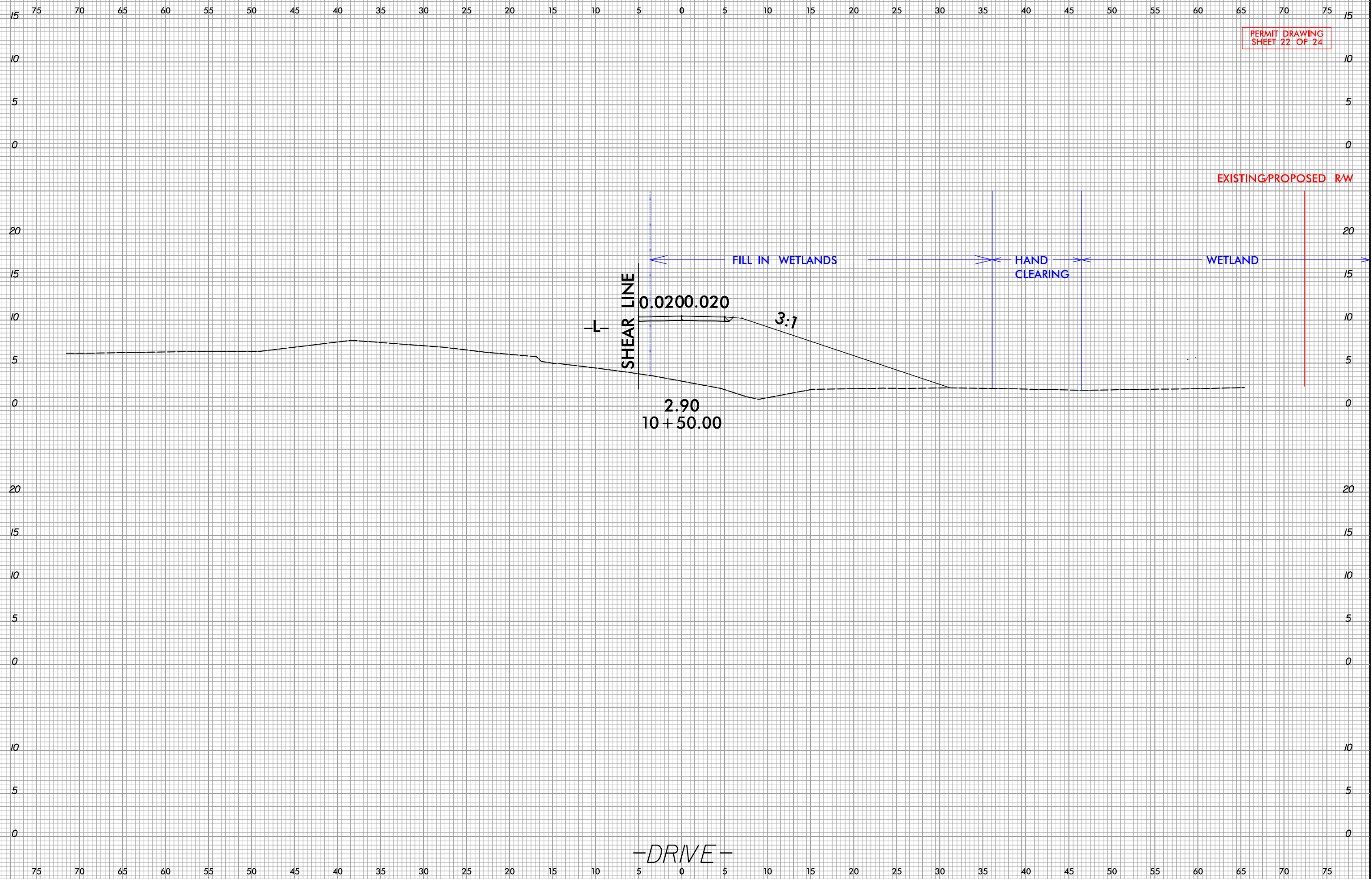


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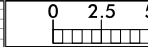
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X-13

PERMIT DRAWING
SHEET 21 OF 24





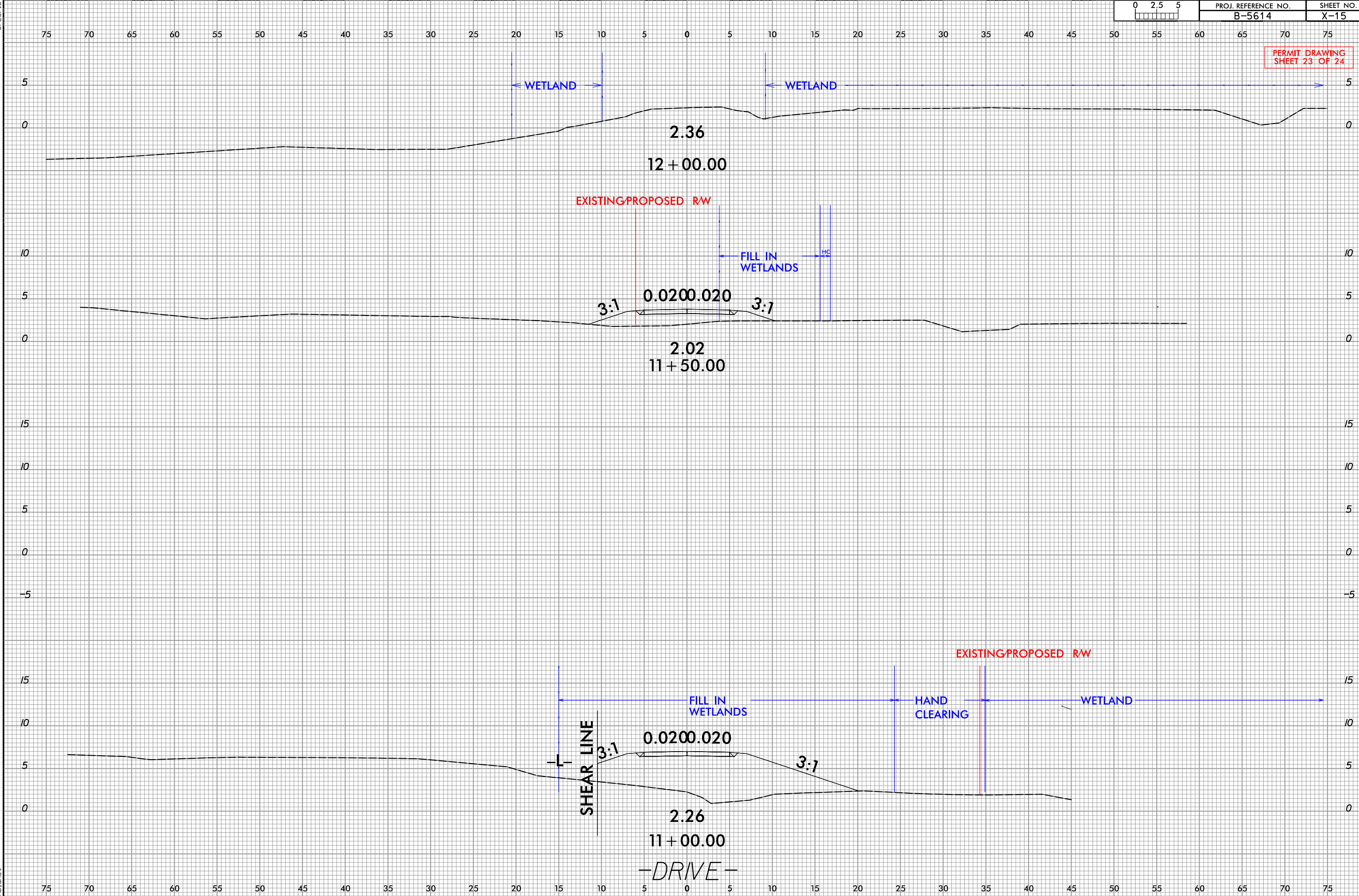
6/23/16



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 | |
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| TOTALS*: | | | 0.37 | < 0.01 | | | 0.08 | 0.02 | 1.19 | 33 | 65 | 0 |

*Rounded totals are sum of actual impacts

NOTES:

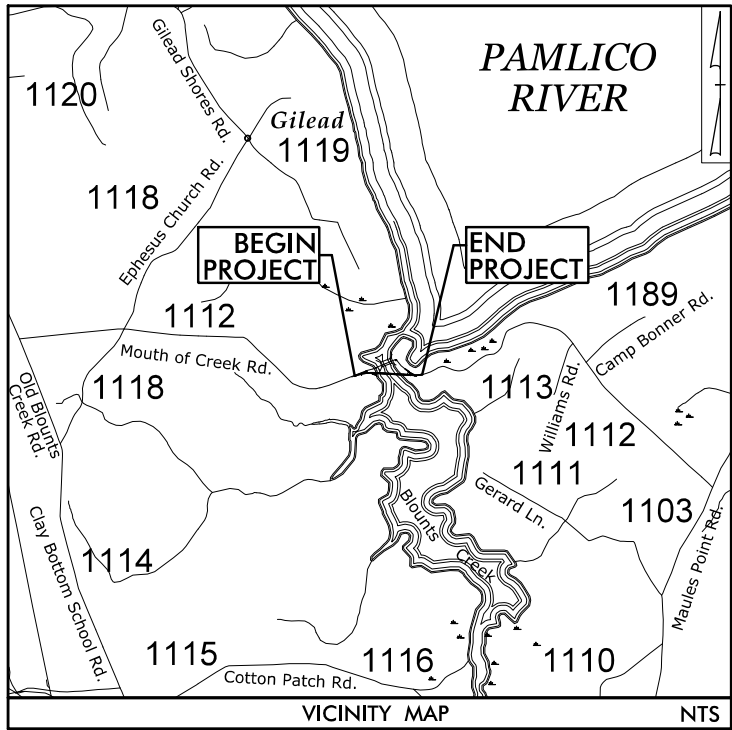
NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08/29/22
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 24 OF 24

Buffer Drawings

09/28/99
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TIP PROJECT: B-5614

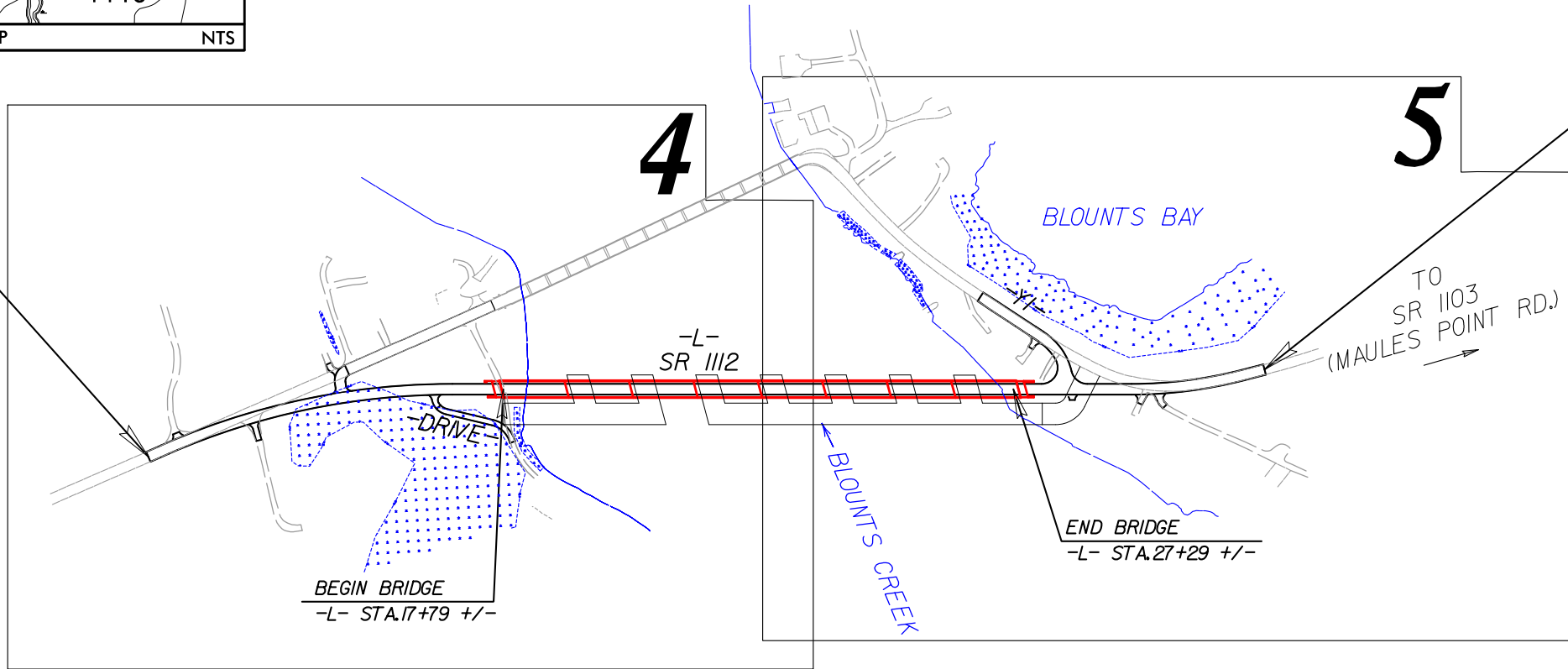
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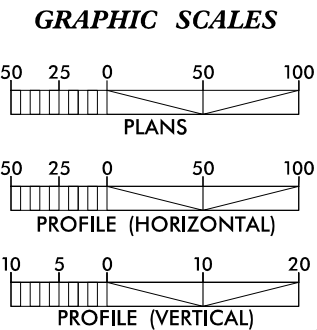
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 19, 2020

LETTING DATE:
JUNE 15, 2021

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

ANDY YOUNG, PE
PROJECT ENGINEER

ROBERT WILLIAMS, PE
PROJECT DESIGN ENGINEER

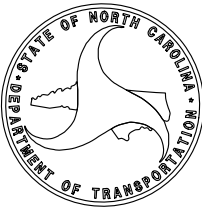
DAVID STUTTS, PE
NCDOT CONTACT

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

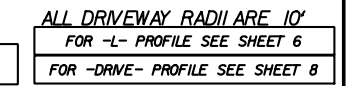
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | B-5614 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 45569.1.1 | N/A | PE | |
| | | | |
| | | | |

BUFFER DRAWING
SHEET 1 OF 5



END TIP PROJECT B-5614
-L- STA.32+00.00

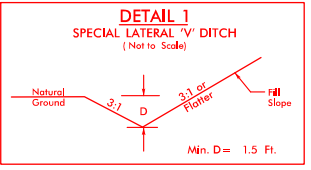
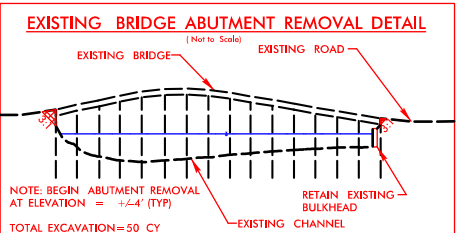
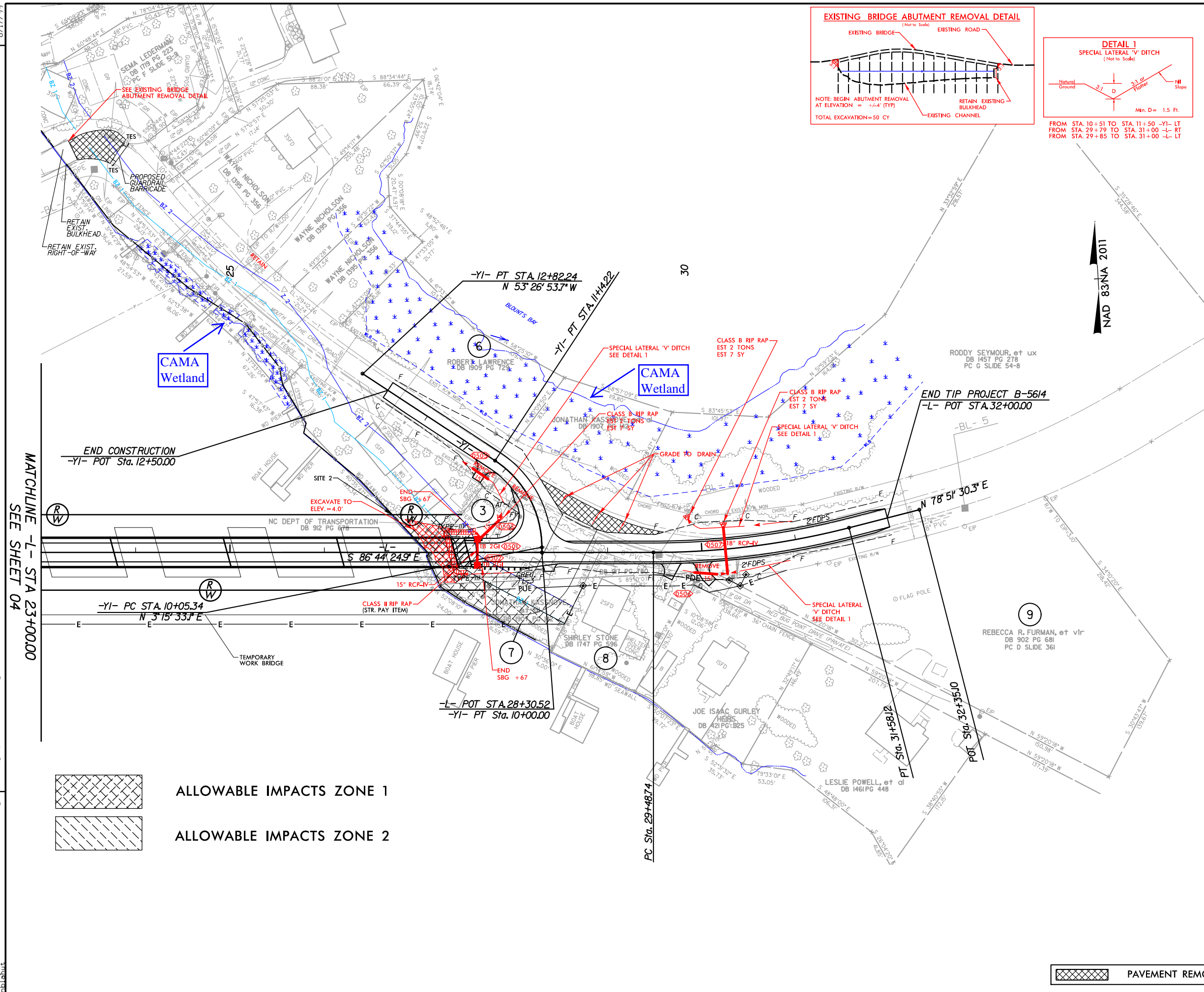
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



8/17/99

REVISIONS

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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

BUFFER DRAWING
SHEET 3 OF 5

| | |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-5614 | 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 | |

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 | | | | | |
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| | | | | | | | | | | | | | |
| 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 |
| | | | | |
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| TOTAL: | | | 242 | 420 |

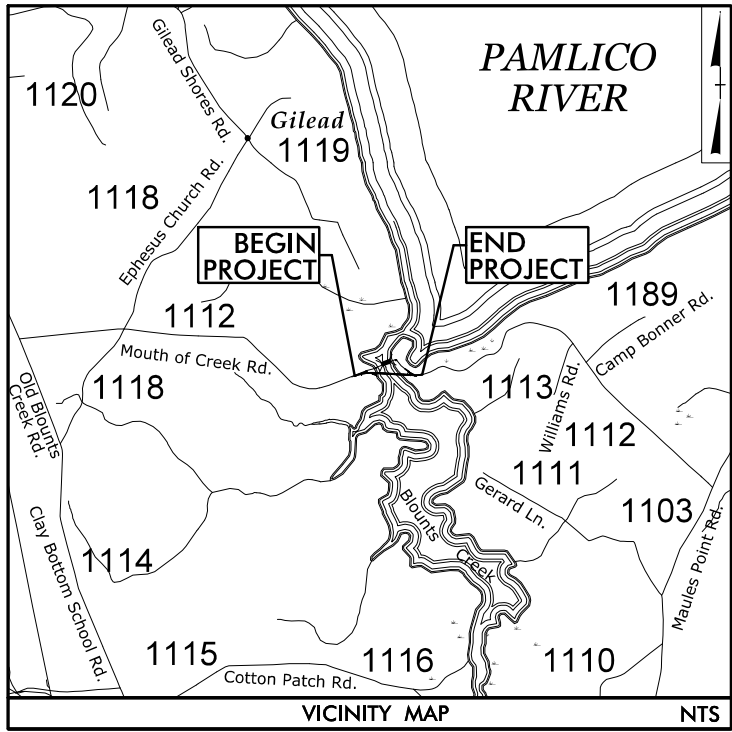
NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 06/03/22
 BEAUFORT COUNTY
 B-5614
 45569.1.1
 SHEET 5 OF 5

Utility Drawings for Streams and Wetlands

09/08/99
I:\34:02 AM
R:\Hydro\utilities\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

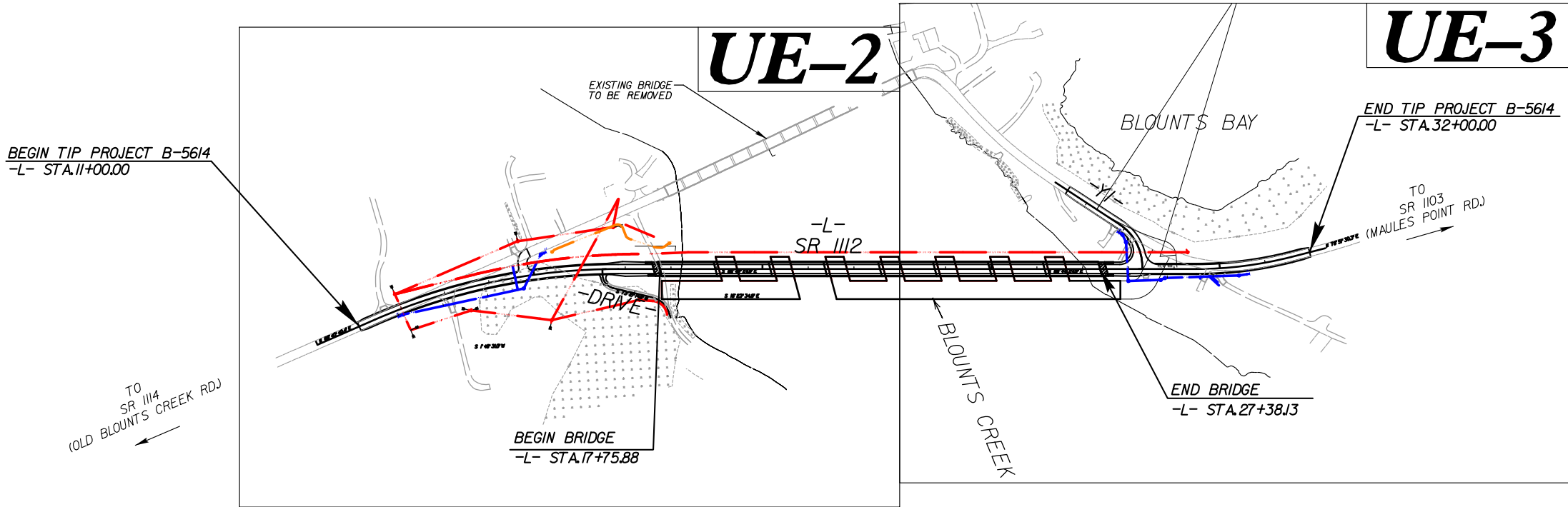
TYPE OF WORK: TELECOMMUNICATIONS, POWER RELOCATION,
AND WATERLINE RELOCATION

WETLAND AND SURFACE WATER IMPACTS PERMIT

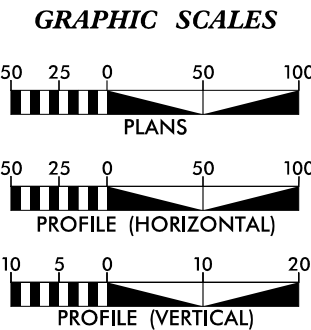
| TIP NO. | SHEET NO. |
|---------|-----------|
| B-5614 | UE-1 |

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 1 OF 11



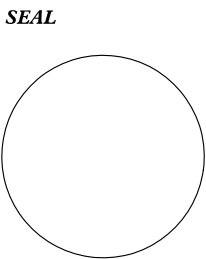
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



| 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: | |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 223 S. WEST ST., STE. 1100 RALEIGH, NC 27603 T 919.380.8750 | 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
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|---------------------------------|-----------|
| 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



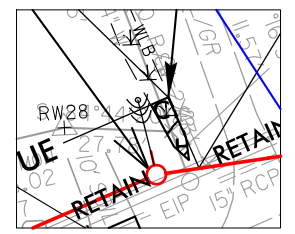
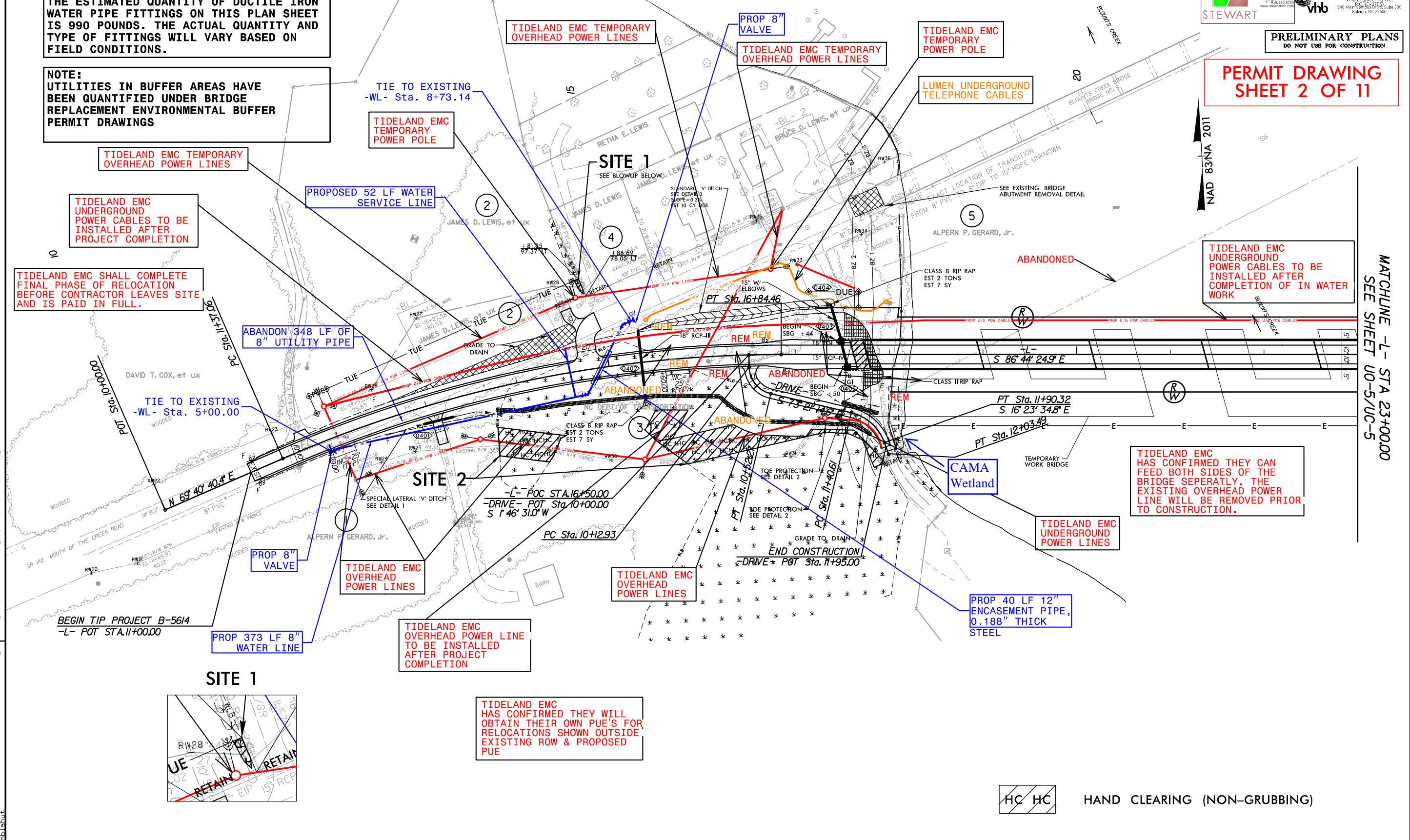
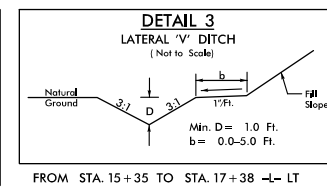
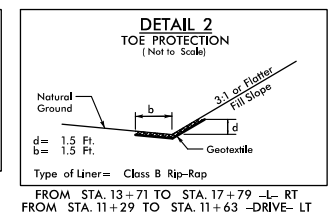
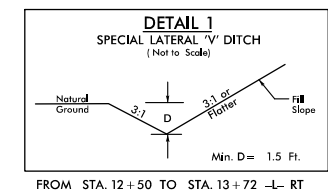
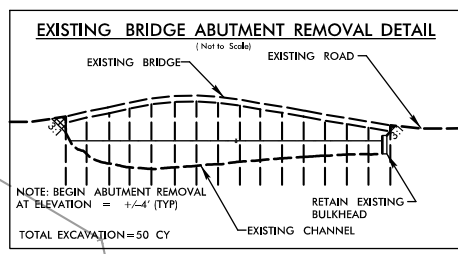
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

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



HC HC HAND CLEARING (NON-GRUBBING)

UTILITIES BY OTHERS/UTILITY CONSTRUCTION

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



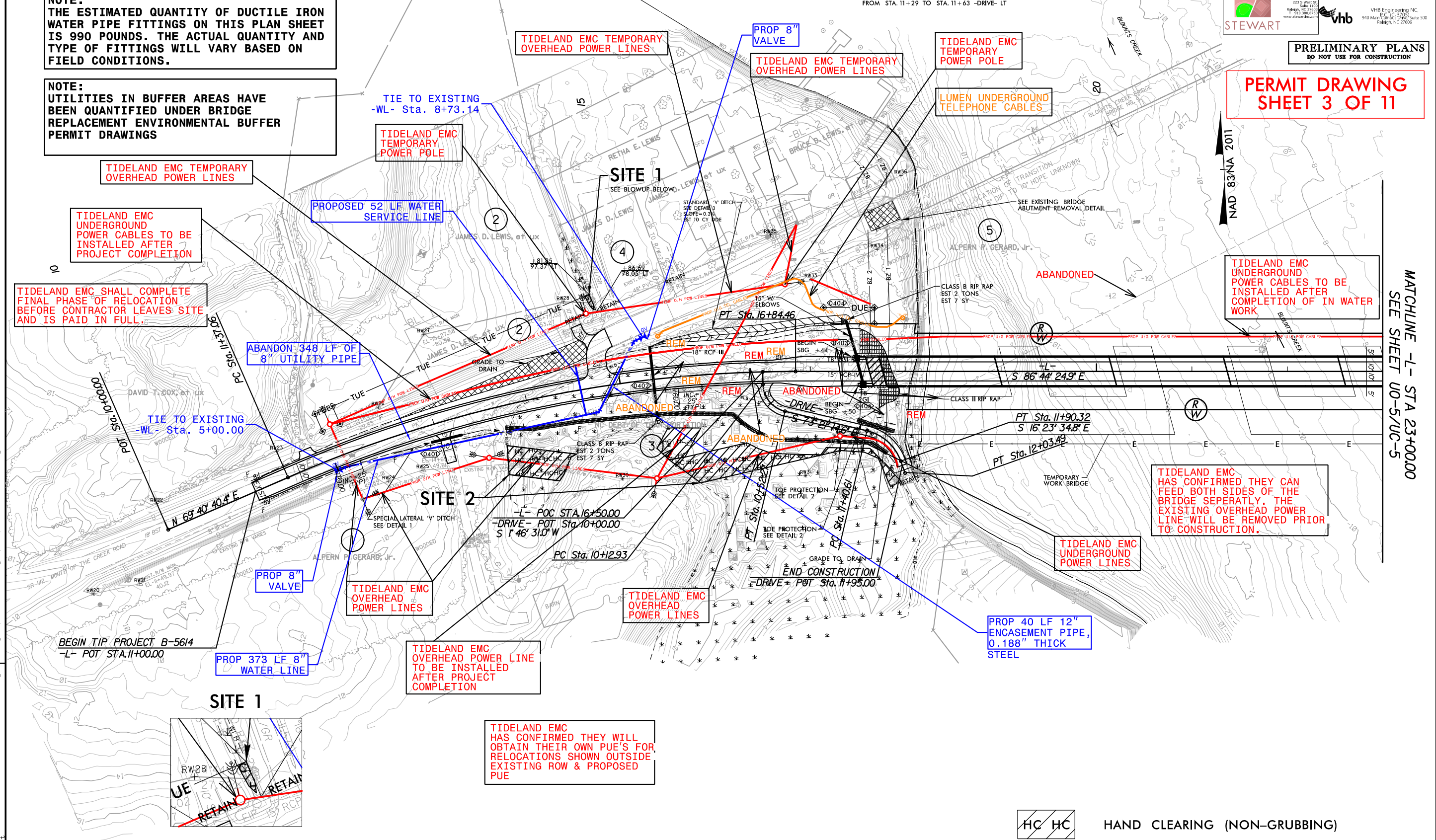
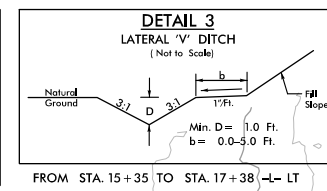
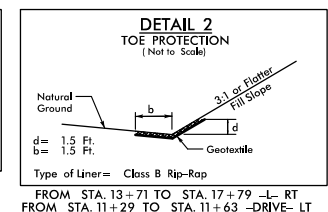
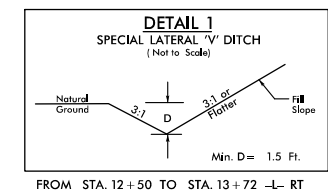
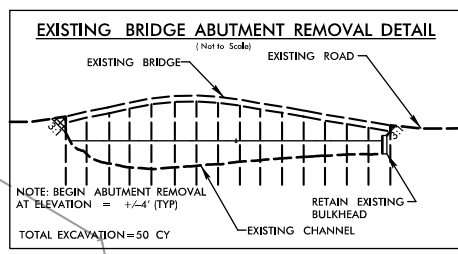
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

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.

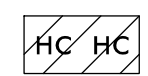
NOTE:
UTILITIES IN BUFFER AREAS HAVE
BEEN QUANTIFIED UNDER BRIDGE
REPLACEMENT ENVIRONMENTAL BUFFER
PERMIT DRAWINGS



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

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

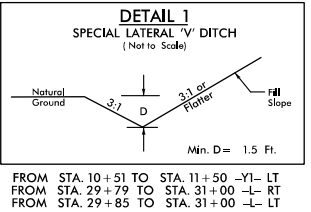
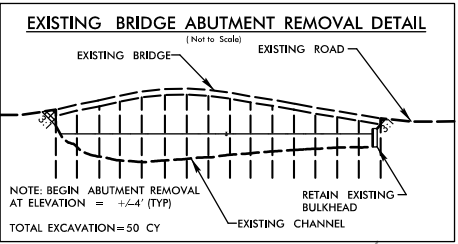
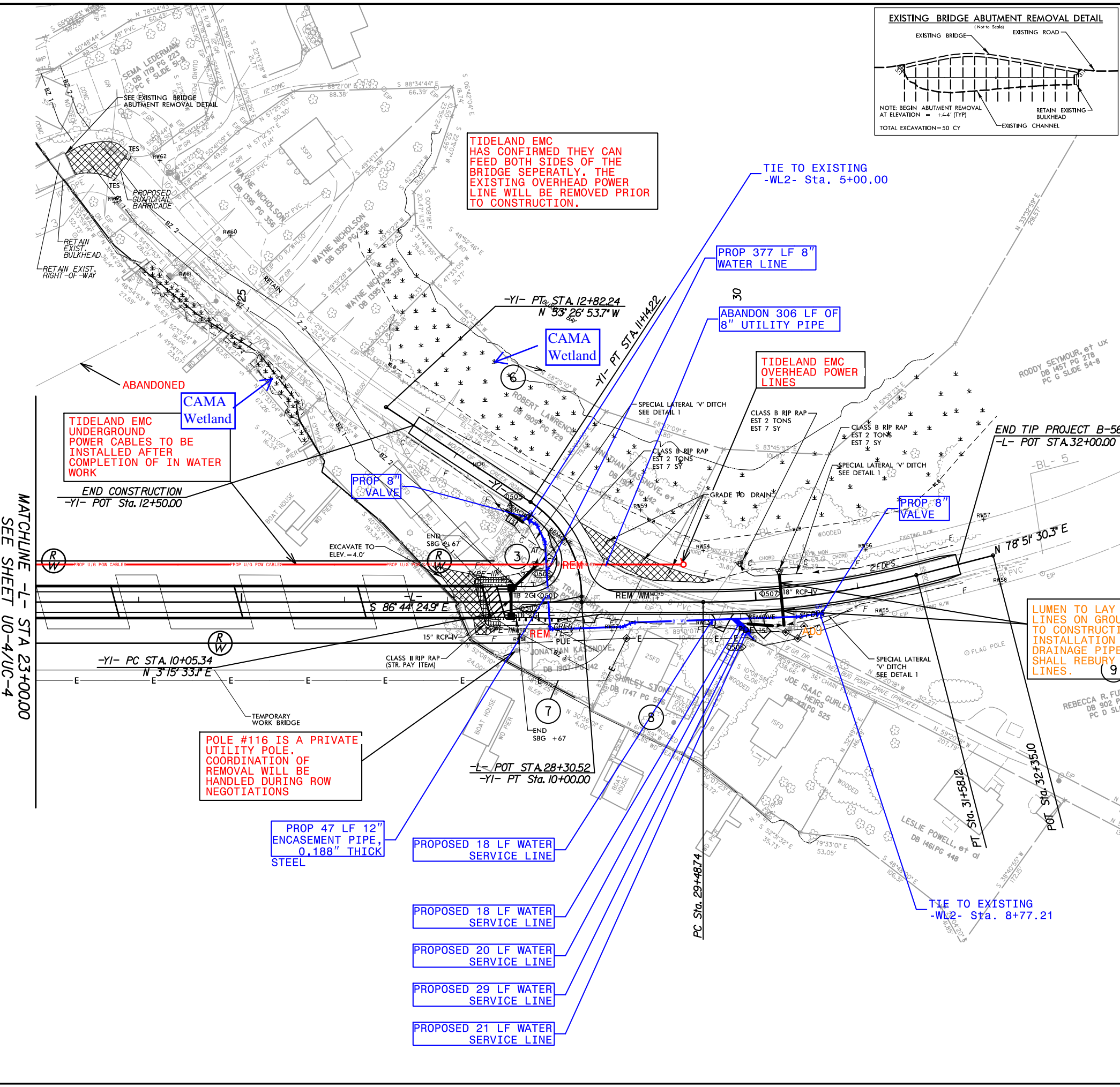
TIDELAND EMC
HAS CONFIRMED THEY WILL
OBTAIN THEIR OWN PUE'S FOR
RELOCATIONS SHOWN OUTSIDE
EXISTING ROW & PROPOSED
PUE



HAND CLEARING (NON-GRUBBING)

5/14/99
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MATCHLINE -L- STA 23+00.00
SEE SHEET UO-4/UC-4
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| | |
|---------------------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-5614 | 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



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

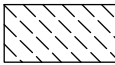
PERMIT DRAWING
SHEET 4 OF 11

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.

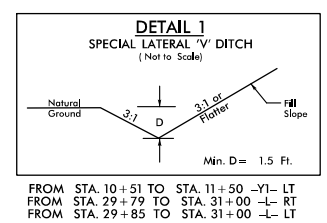
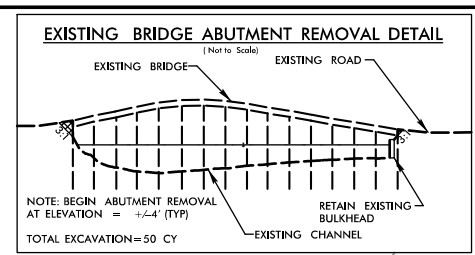
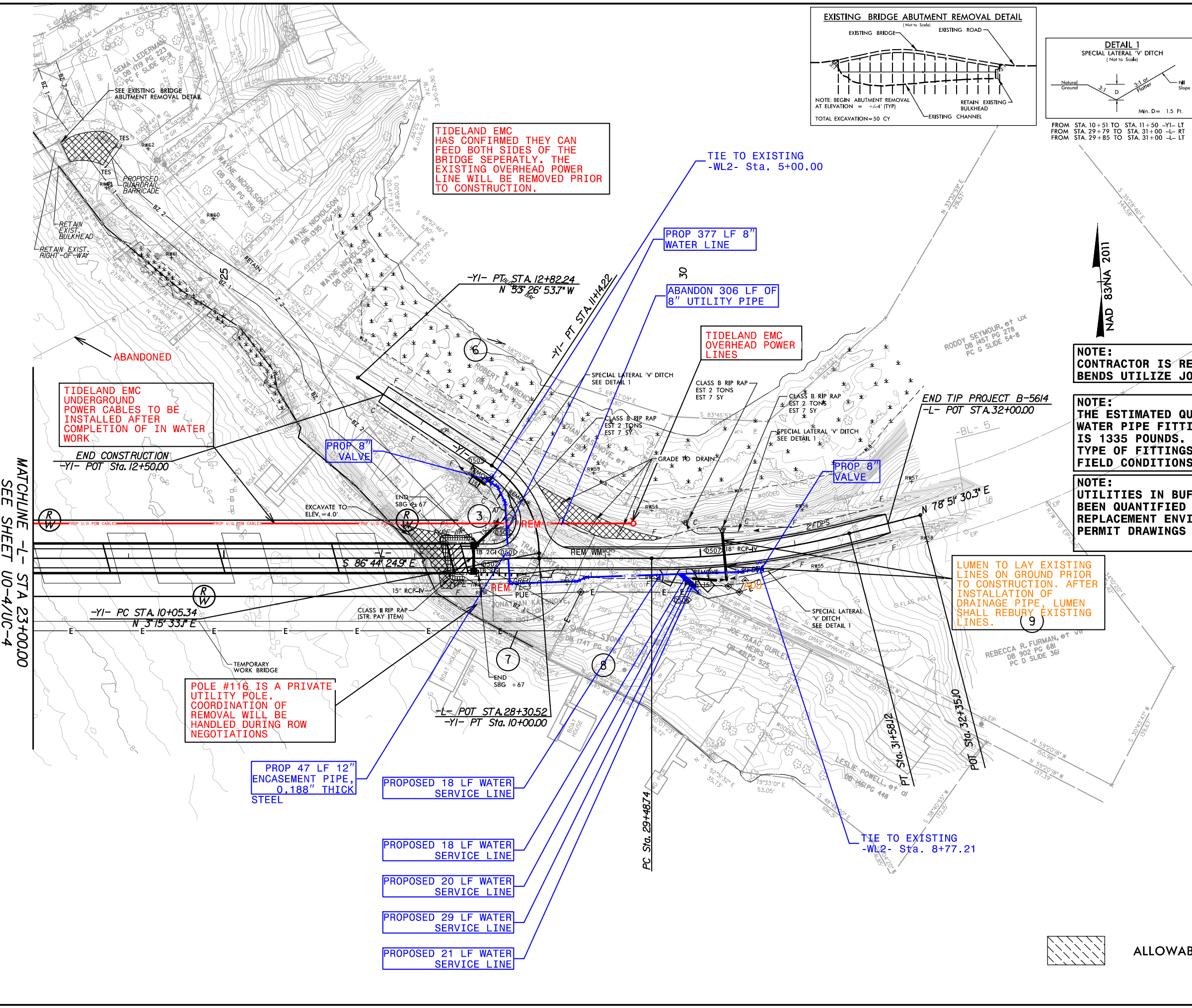
NOTE:
UTILITIES IN BUFFER AREAS HAVE BEEN QUANTIFIED UNDER BRIDGE REPLACEMENT ENVIRONMENTAL BUFFER PERMIT DRAWINGS

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



ALLOWABLE IMPACTS ZONE 2

5/14/99
REVISED
MATCHLINE -L- STA 23+00.00
SEE SHEET UO-4/UC-4
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PROJECT REFERENCE NO. **B-5614** SHEET NO. **UE-5**
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

PERMIT DRAWING
SHEET 5 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.

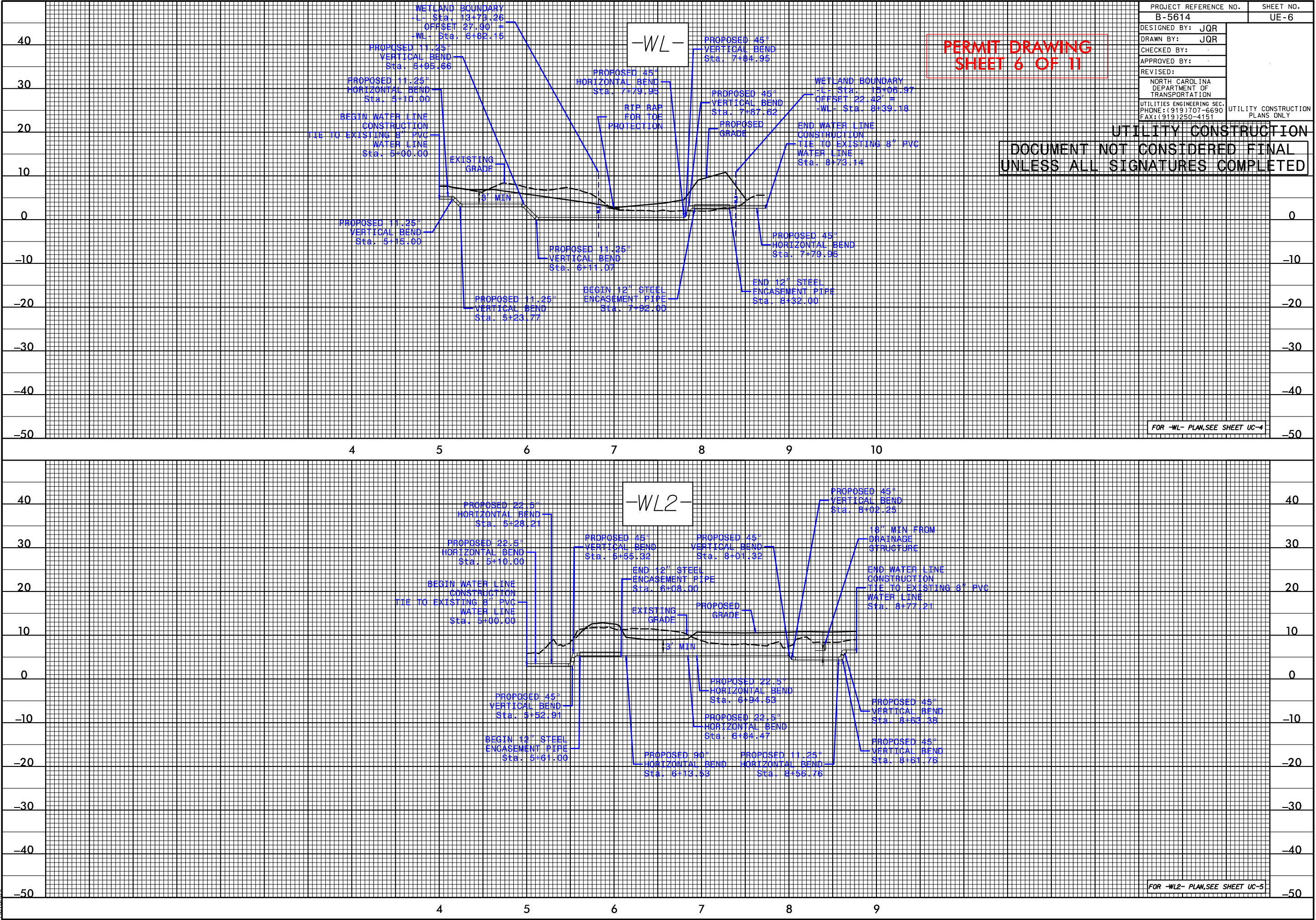
NOTE:
UTILITIES IN BUFFER AREAS HAVE BEEN QUANTIFIED UNDER BRIDGE REPLACEMENT ENVIRONMENTAL BUFFER PERMIT DRAWINGS

NOTE:
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

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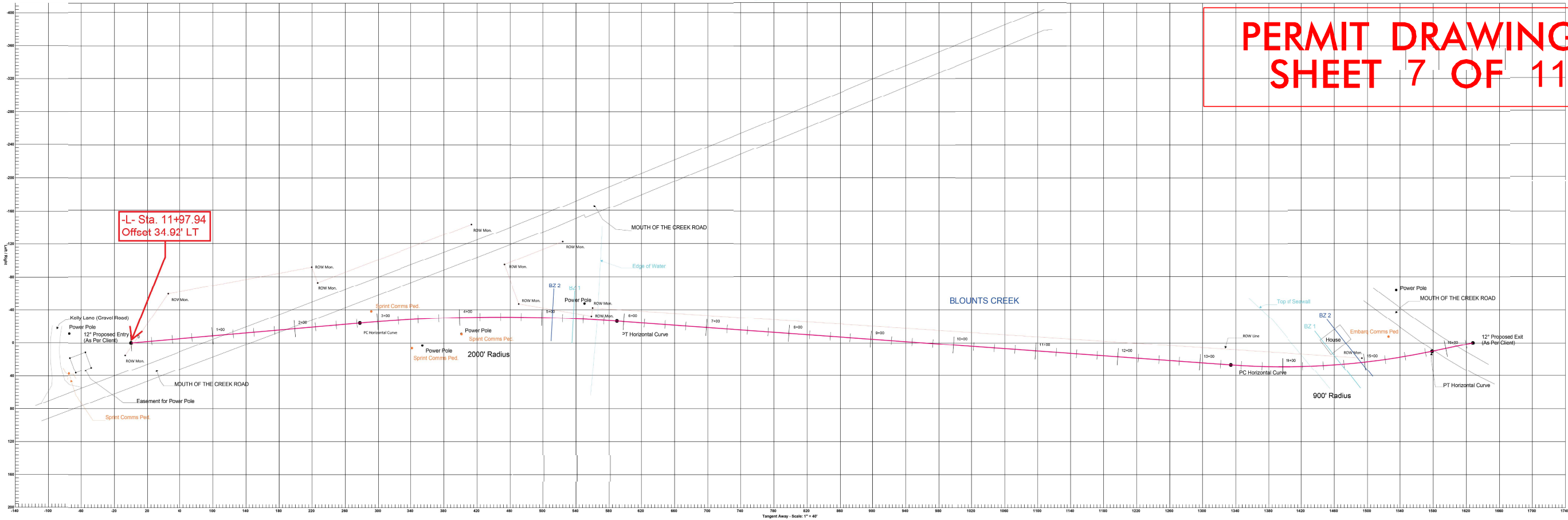


PLAN VIEW

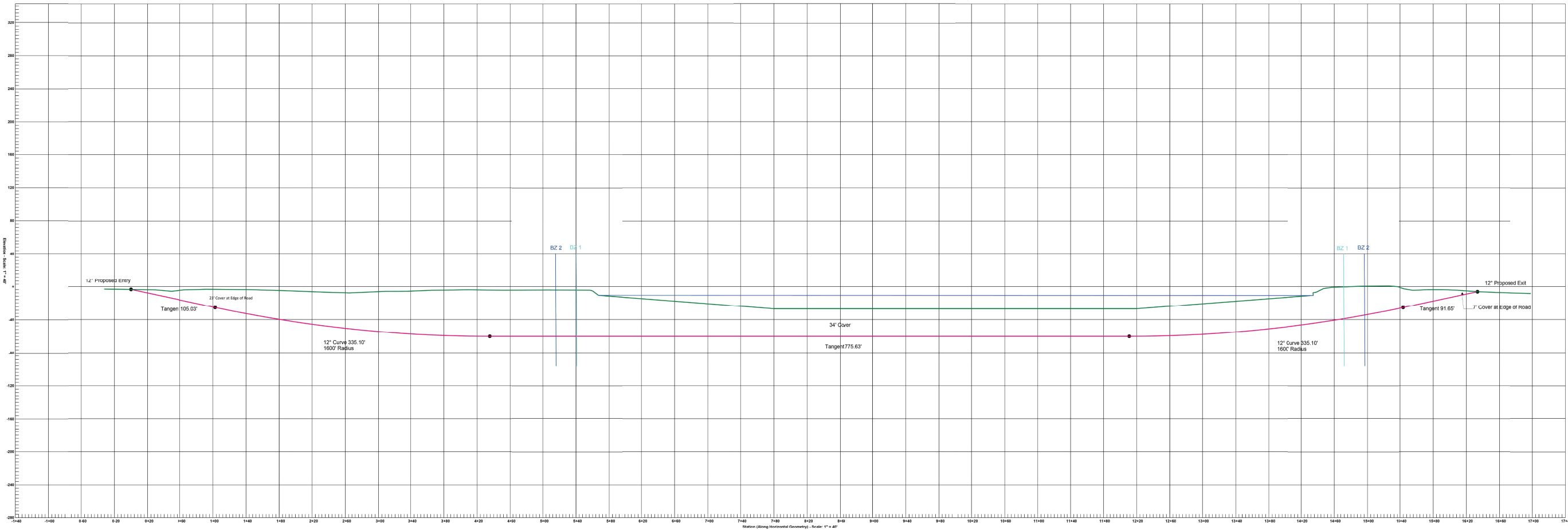
PERMIT DRAWING SHEET 7 OF 11

UE-7

File: Sane Specifications
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1.1.1.2022 7:47:39 AM
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Min: 0.000 Feet
Max: 0.000 Feet
Min: 0.000 Feet
Max: 0.000 Feet
Min: 0.000 Feet
Max: 0.000 Feet



PROFILE VIEW



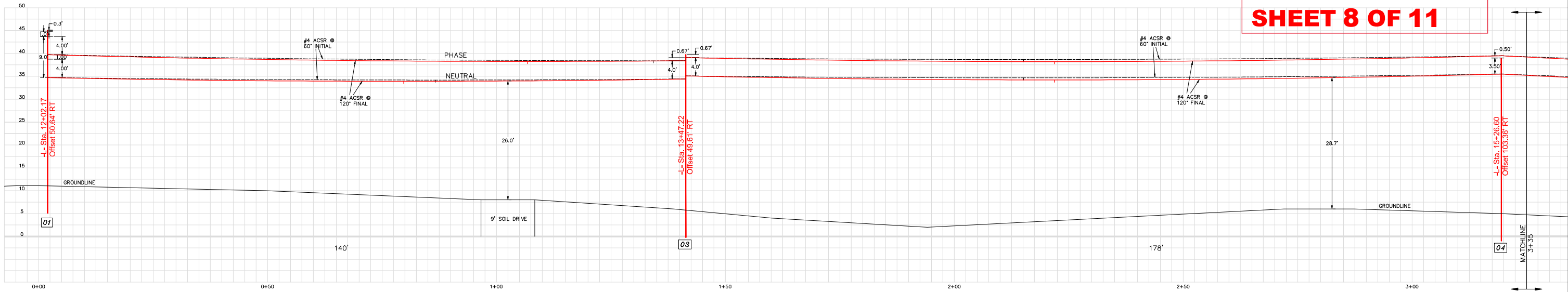
Buffer Zone locations shown on the plans are approximate and for informational purposes only.

| From | Station | Horizontal Curve | Radius | Length | Offset |
|------|---------|--------------------|----------|---------|--------|
| 1 | 1+00 | 12" Proposed Entry | 1200.000 | 120.000 | 12.000 |
| 2 | 12+00 | 12" Proposed Exit | 1200.000 | 120.000 | 12.000 |

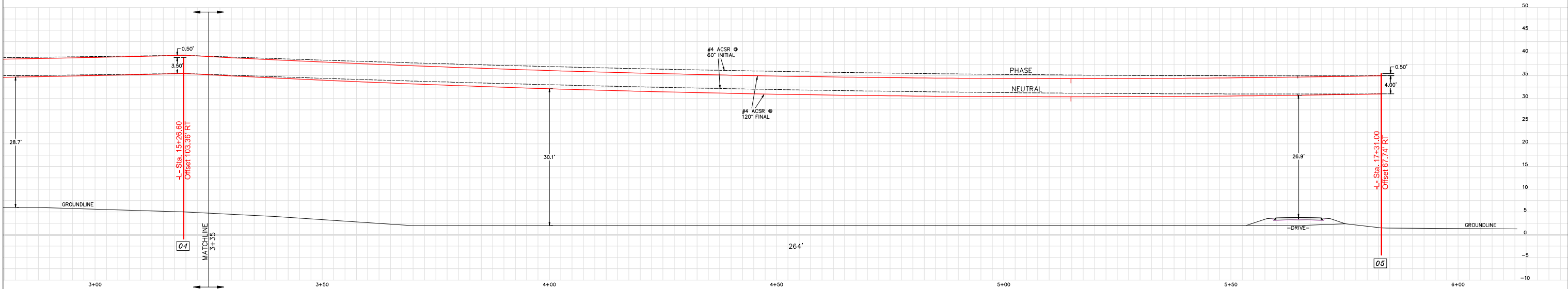
| From | Station | Horizontal Curve | Radius | Length | Offset |
|------|---------|--------------------|----------|---------|--------|
| 1 | 1+00 | 12" Proposed Entry | 1200.000 | 120.000 | 12.000 |
| 2 | 12+00 | 12" Proposed Exit | 1200.000 | 120.000 | 12.000 |

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 reports. HTI does not warrant the accuracy, completeness or reliability of any project. Any recommendations are made in good faith and can either be rejected or accepted. It is the sole responsibility of the client and other involved entities to review, verify and approve all aspects of HTI's work.
Signing or issuing 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 HTI professional who has signed and sealed all drawings and reports. HTI does not warrant the accuracy, completeness or reliability of any project. Any recommendations are made in good faith and can either be rejected or accepted. It is the sole responsibility of the client and other involved entities to review, verify and approve all aspects of HTI's work.
FROM INFORMATION OBTAINED FROM ANY HTI DRAWING, REVISION OR DOCUMENT GENERATED IN RELATION TO THIS PROJECT.

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.

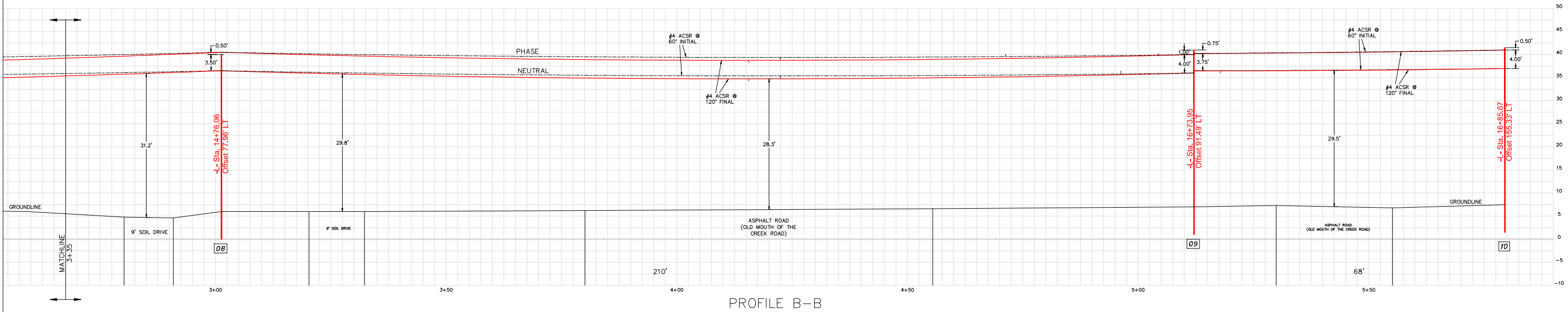
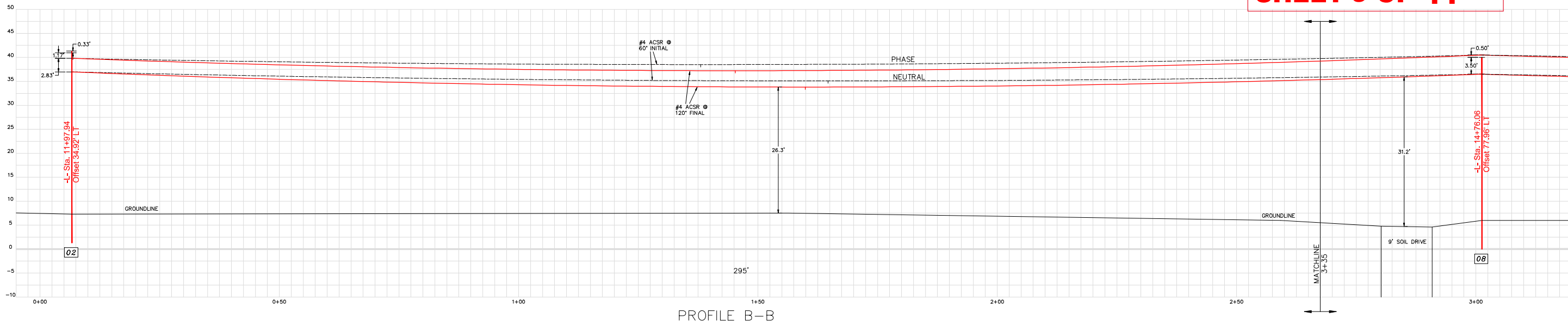
PRELIMINARY



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:

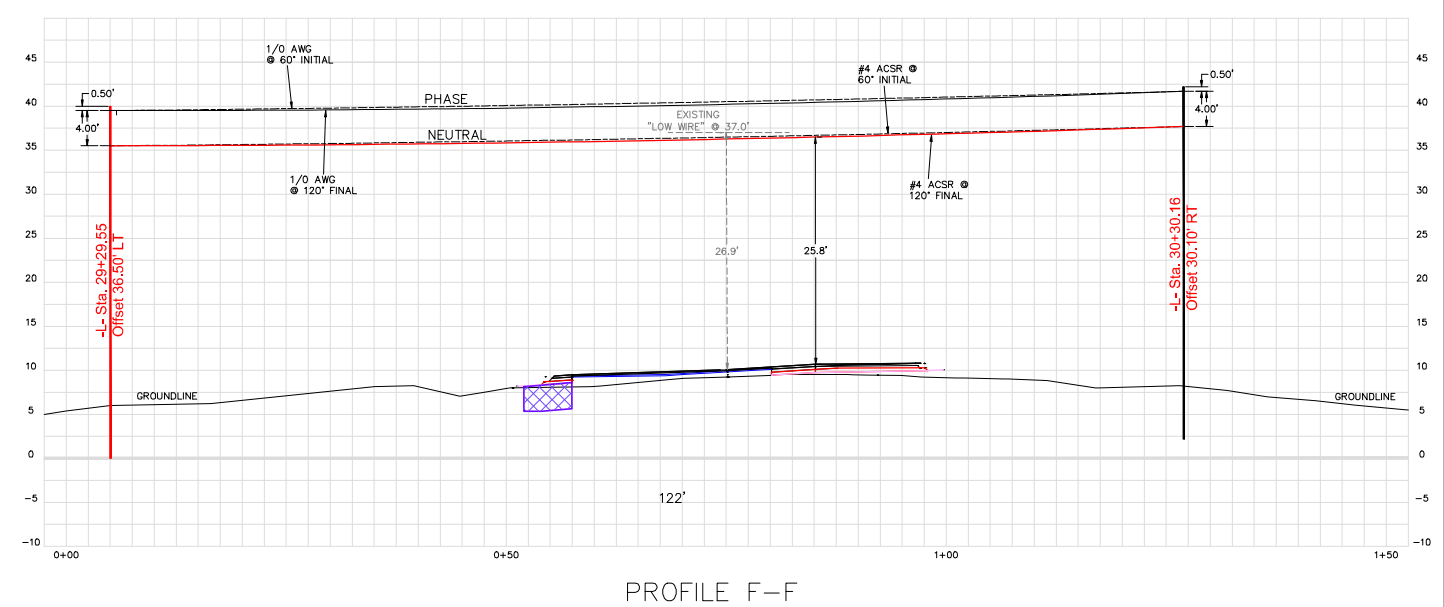
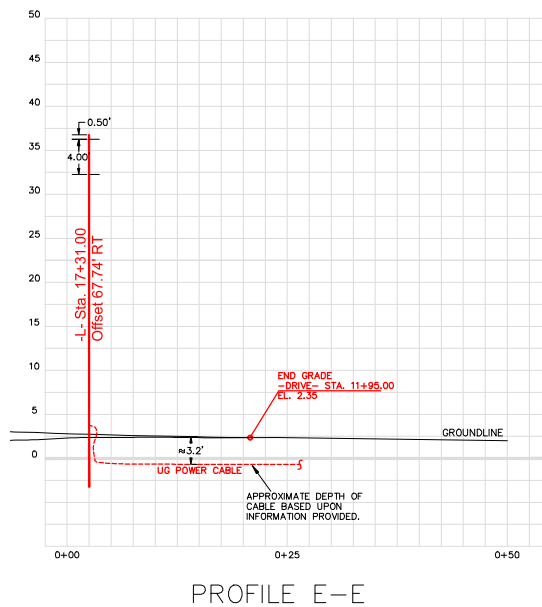
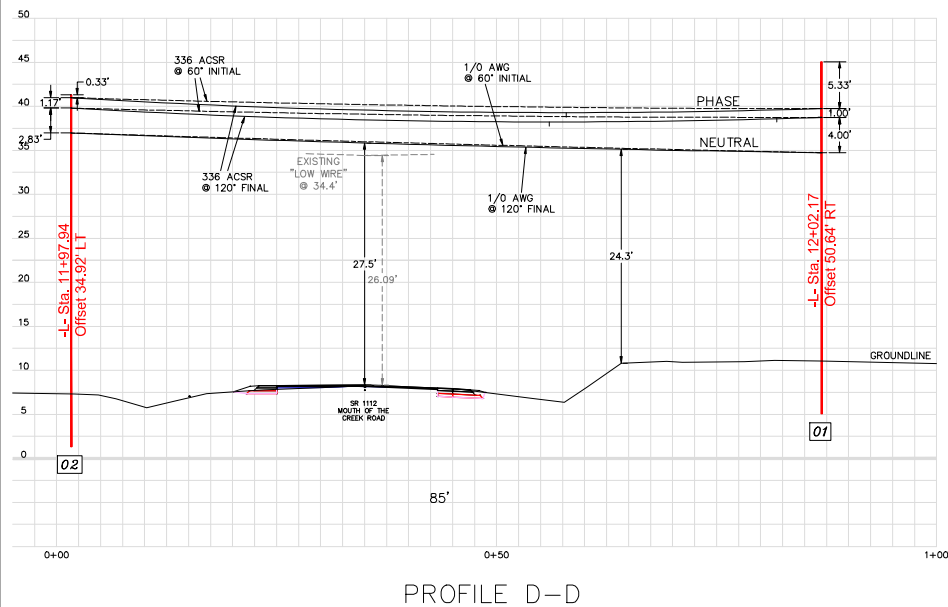
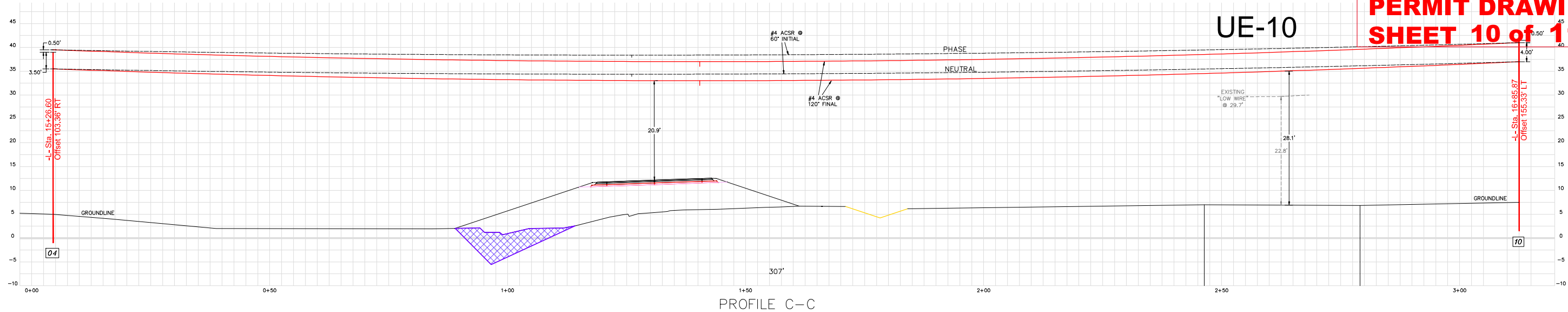
1. ALL POLES UNLESS OTHERWISE NOTED ARE 40', CLASS 4, 6' EMBEDMENT.
2. SAG CURVES ARE FOR TYPICAL DESIGN TENSIONS FOR CONDUCTORS SHOWN. ACTUAL STRINGING TENSIONS MAY CAUSE MINOR DIFFERENCES.
3. GROUND CONTOURS ARE FROM NCDOT PROJECT B-5614 DRAWING SET AND BEAUFORT COUNTY GIS DATA.

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 |
| CHECKED BY: | TBP | CAD FILE: | BLOUNTSCREEKPH |
| APPROVED BY: | TBP | DATE: | 03/03/2022 |
| | | SCALE: | 1" = 10' |
| | | 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 | APPROVED BY: TBP | |
| DATE: 03/03/2022 | | SHEET NO. 4 OF 4 | |

| 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 | | | | | |
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| TOTALS*: | | | | | | | 0.15 | | | 0 | 0 | 0 |

NOTES:

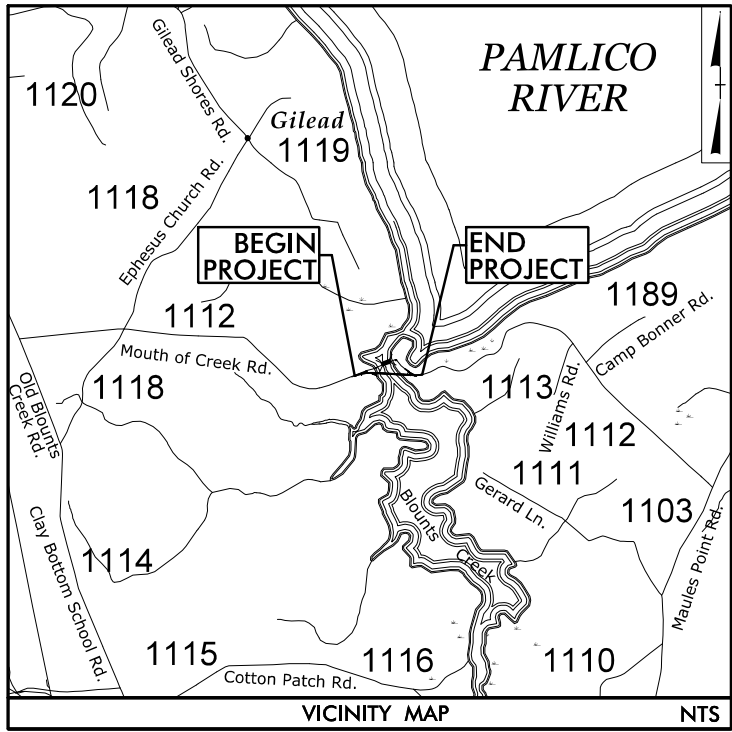
SHEET 11 OF 11

Utility Drawings for Buffers

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10:36:23 AM
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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 |

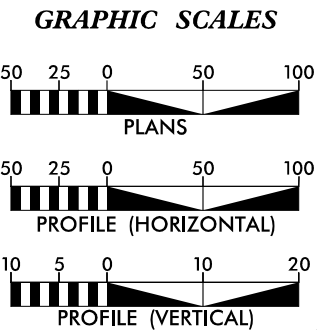
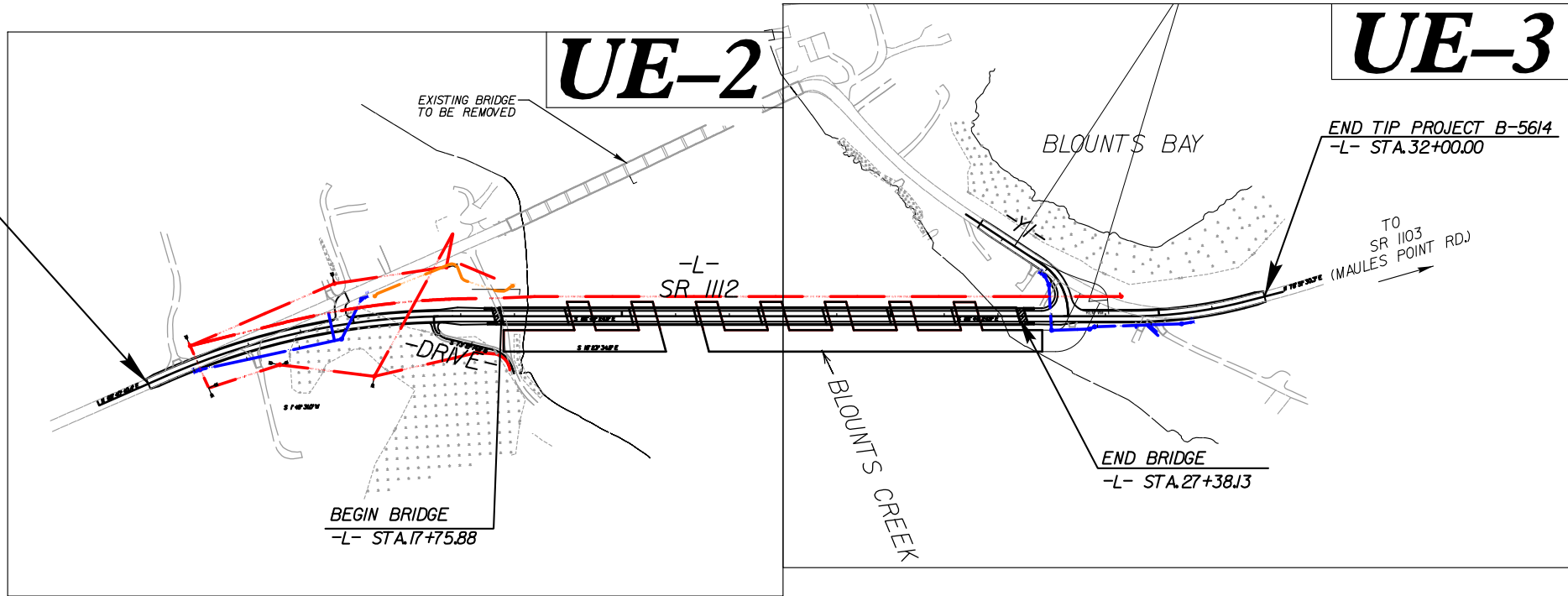
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

BUFFER DRAWING
SHEET 1 OF 5



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

TO
SR 1114
(OLD BLOUNTS CREEK RD.)

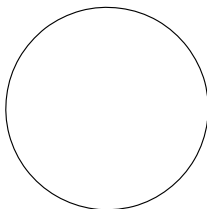


| SHEET NO. | DESCRIPTION |
|-----------|---------------------------|
| UE-1 | BUFFER IMPACT TITLE SHEET |
| UE-2 | UTILITY BUFFER IMPACTS |
| UE-3 | UTILITY BUFFER IMPACTS |

| 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 |

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

5/14/99
3:41 PM
R:\Hydro\Projects\B5614_Hyd.prm\UE_buffer_PSH04.dgn
Utility Impacts\B5614_Hyd.prm\UE_buffer_PSH04.dgn
PERMITS\Environmental\Drawings\UE_buffer_PSH04.dgn

UTILITIES BY OTHERS/UTILITY CONSTRUCTION

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



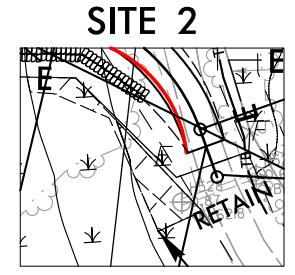
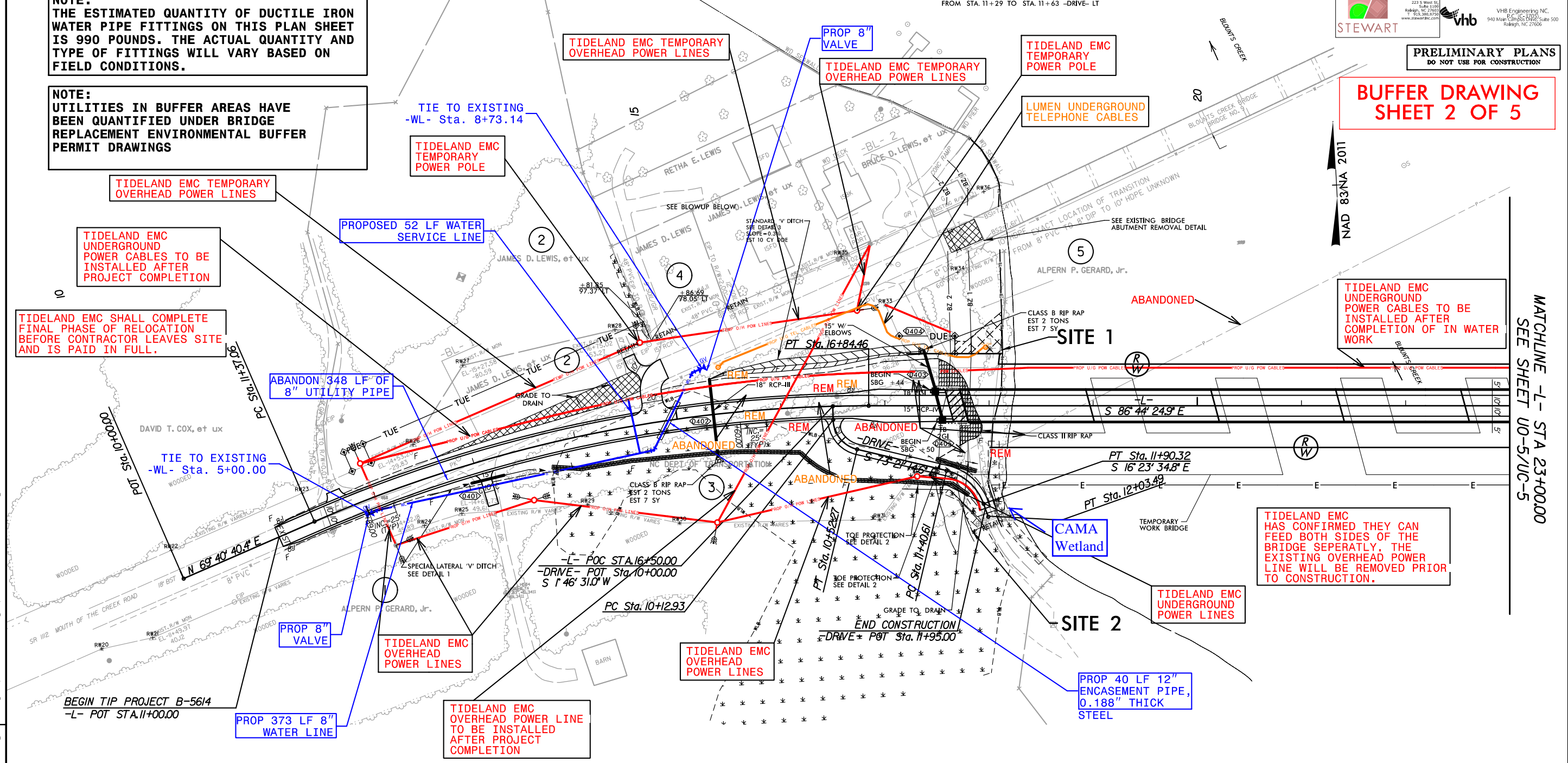
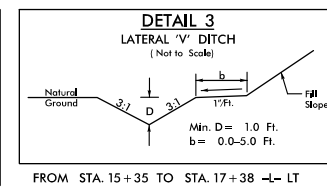
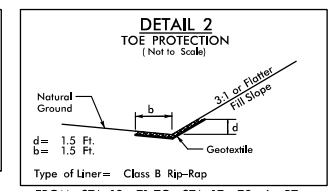
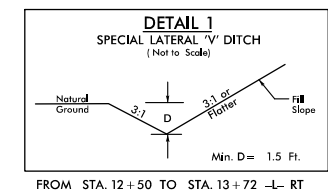
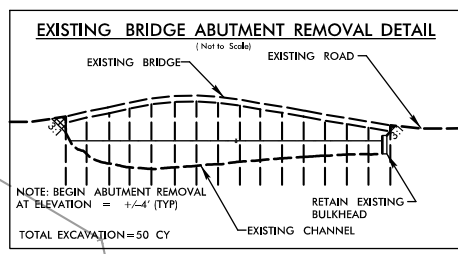
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

**BUFFER DRAWING
SHEET 2 OF 5**

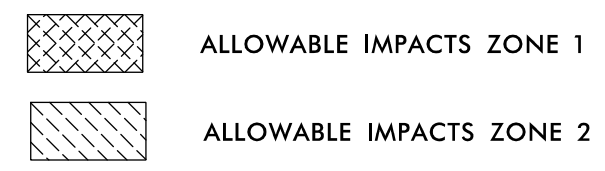
NOTE:
CONTRACTOR IS REQUIRED TO ENSURE ALL
BENDS UTILIZE JOINT RESTRAINTS.

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.

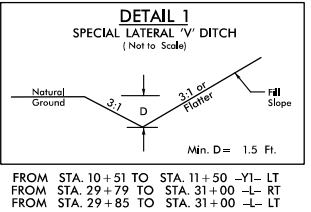
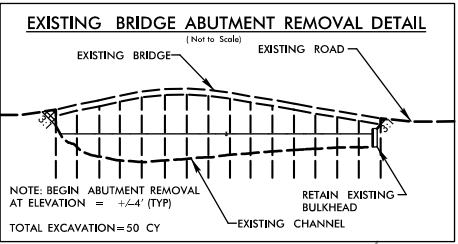
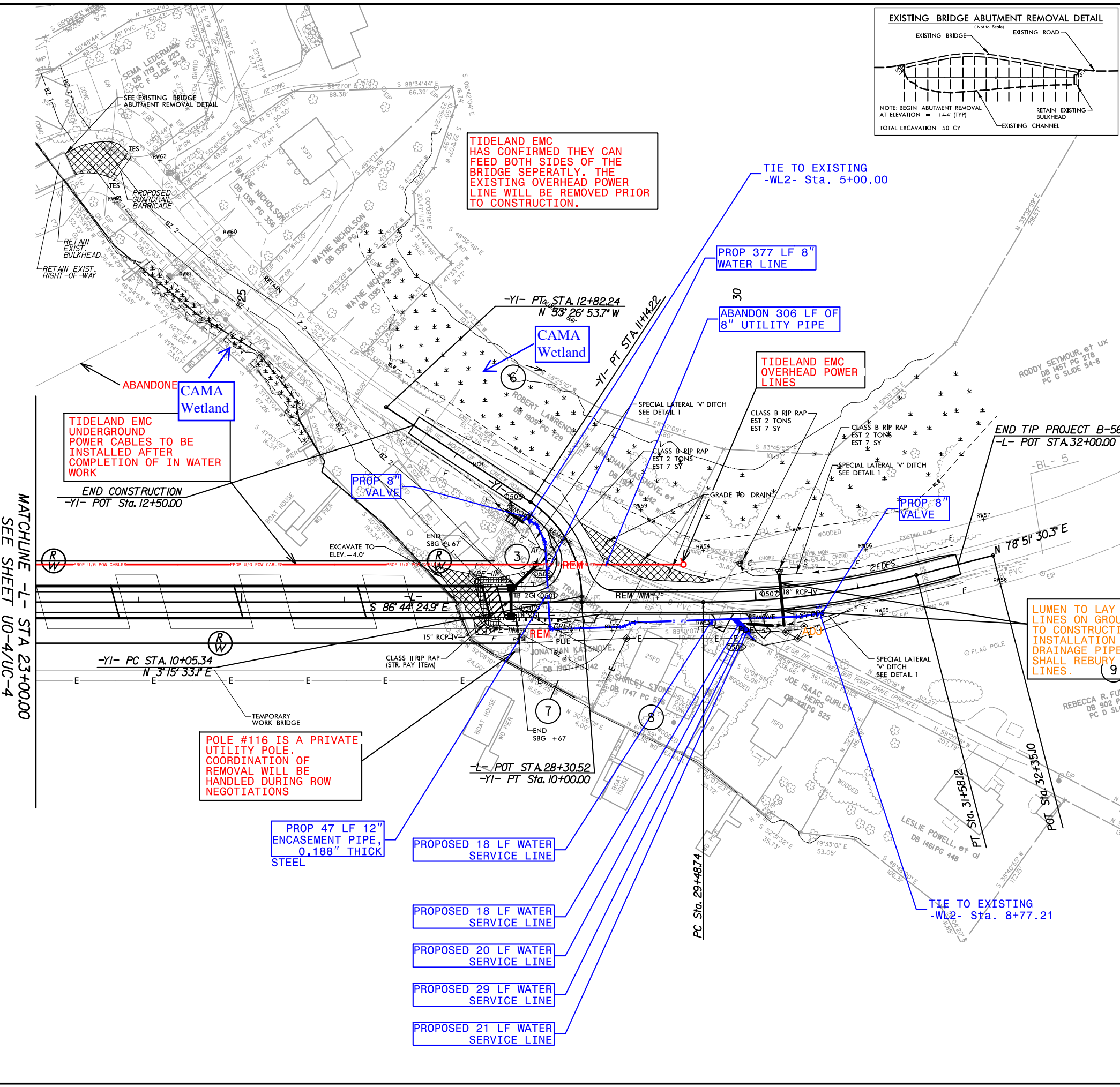
NOTE:
UTILITIES IN BUFFER AREAS HAVE
BEEN QUANTIFIED UNDER BRIDGE
REPLACEMENT ENVIRONMENTAL BUFFER
PERMIT DRAWINGS



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



5/14/99
REVISED
MATCHLINE -L- STA 23+00.00
SEE SHEET UO-4/UC-4
10:37:08 AM
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|---------------------------------|-----------|
| 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

| 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 | | | | | |
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| TOTALS*: | | | | | | 1037 | 302 | 1339 | 0 | 0 | 0 | 0 | 0 |

08/24/22
BEAUFORT COUNTY
B-5614
45569.1.1

Revised 2018 Feb

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

| | | | WETLANDS IN BUFFERS | |
|-------------|----------------------|-----------------------------|------------------------|-----|
| SITE NO. | STATION (FROM/TO) | Structure | | |
| 2 | -DRIVE- 11+36/12+04 | PROP O/H POW & TEL CABLE | 203 | 105 |
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NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08/24/22
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 5 OF 5

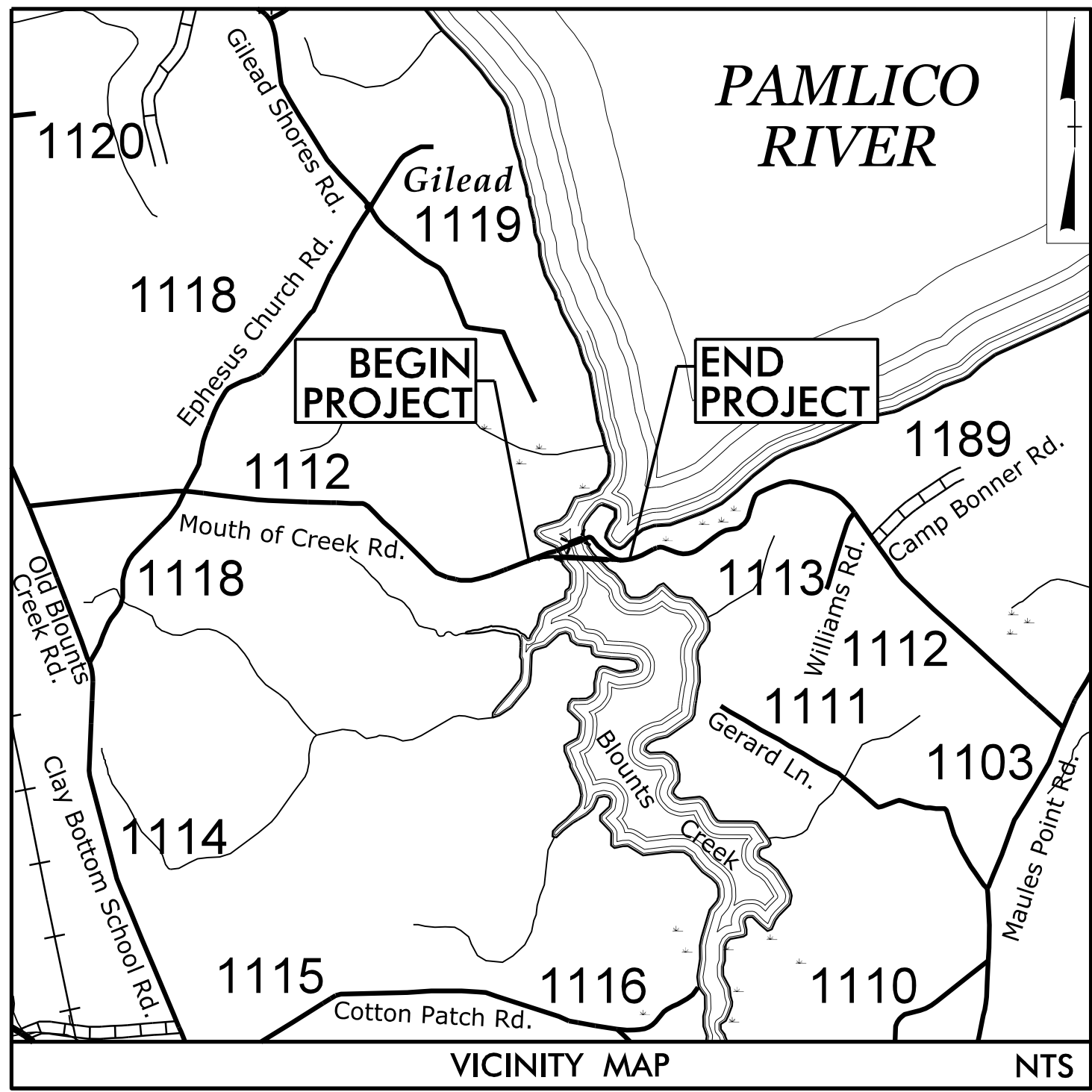
NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08/24/22
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 5 OF 5

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

Roadway Drawings

09.08/99

TIP PROJECT: B-5614



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 (MOUTH OF
THE CREEK ROAD) OVER BLOUNTS CREEK

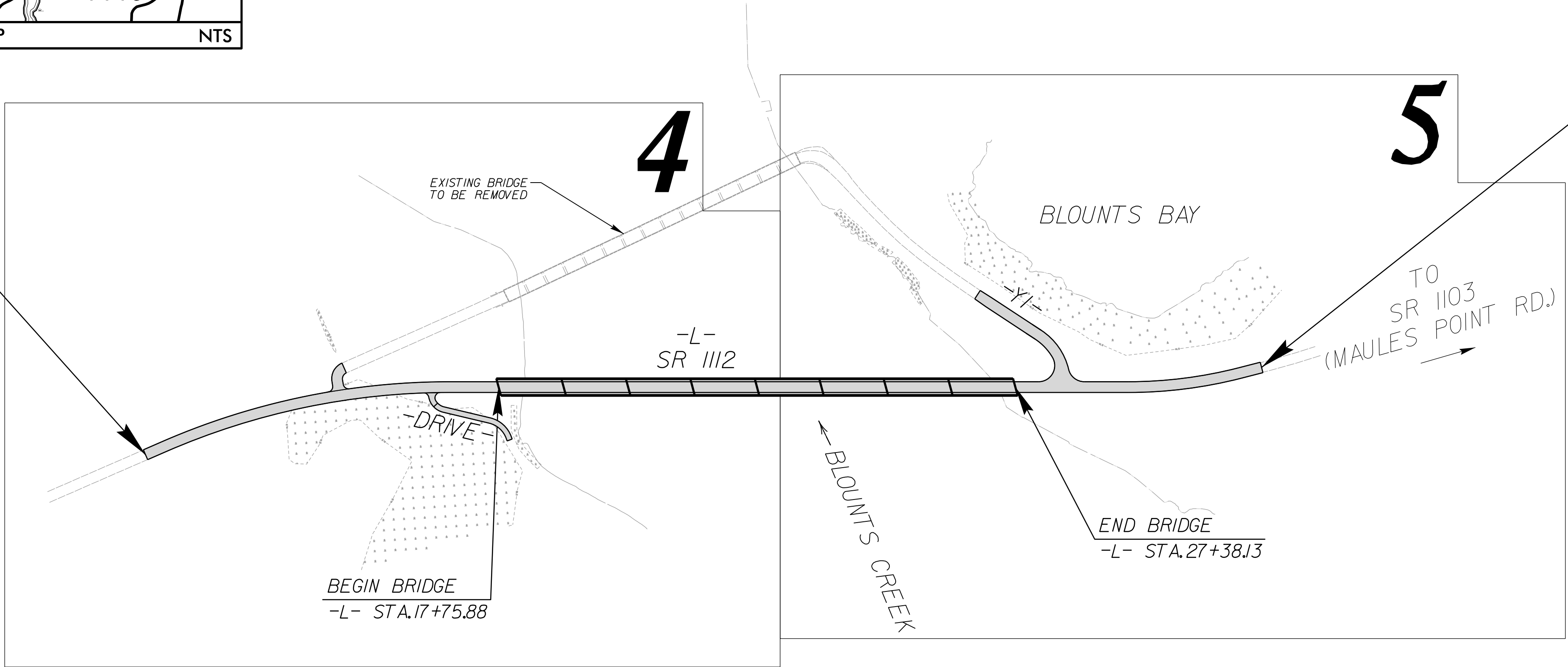
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|--------------|--------------|
| N.C. | B-5614 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 45569.1.2 | N/A | PE | |
| 45569.2.1 | 1112019 | RIGHT-OF-WAY | |
| 45569.2.2 | 1112019 | UTILITIES | |



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

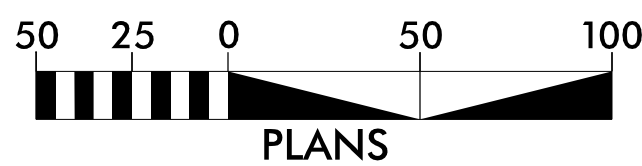
TO
SR 1114
(OLD BLOUNTS CREEK RD.)



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

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

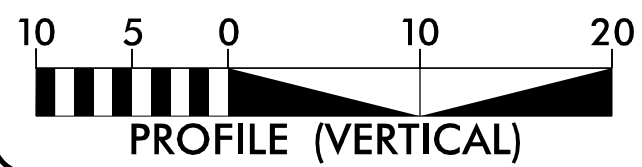
GRAPHIC SCALES



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

DESIGN DATA

2022 ADT = <1000
2042 ADT = <1000
V = 60 MPH

FUNC. CLASS. = LOCAL

SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5614 = 0.216 mi.
LENGTH STRUCTURES TIP PROJECT B-5614 = 0.182 mi.
TOTAL LENGTH TIP PROJECT B-5614 = 0.398 mi.

Prepared in the Offices of:



223 S. WEST ST., STE. 1100
RALEIGH, NC 27603
T 919.380.8750

PE License #1-C-1051
www.stewartinc.com
PROJECT #119004.00



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

RIGHT OF WAY DATE:
NOVEMBER 15, 2021

LETTING DATE:
JUNE 21, 2022

ANDY YOUNG, PE
PROJECT ENGINEER

MICHAEL BURNS, PE
PROJECT DESIGN ENGINEER

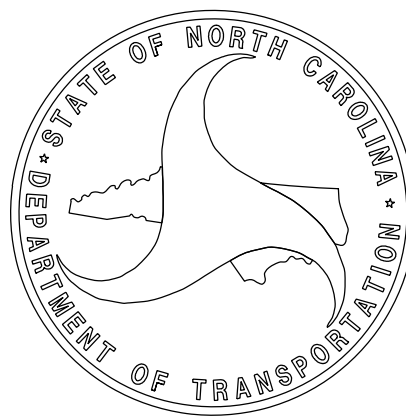
DAVID STUTTS, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.



11/12/2021
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USER:mrburns

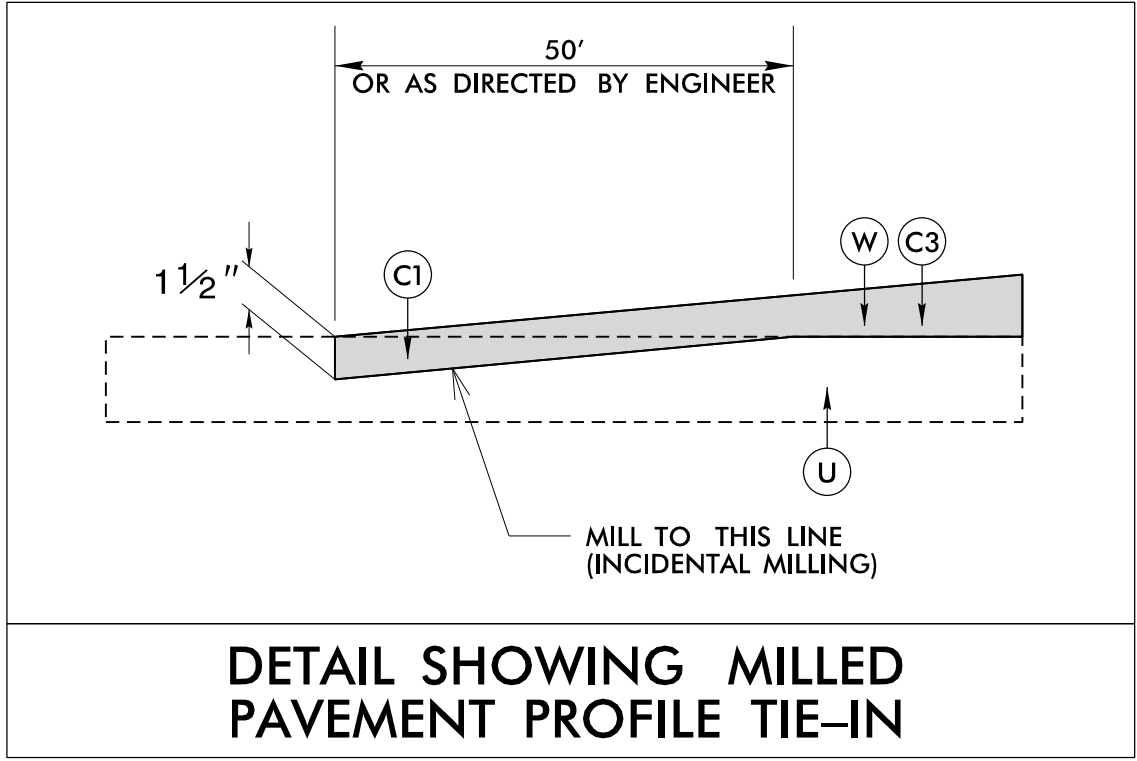
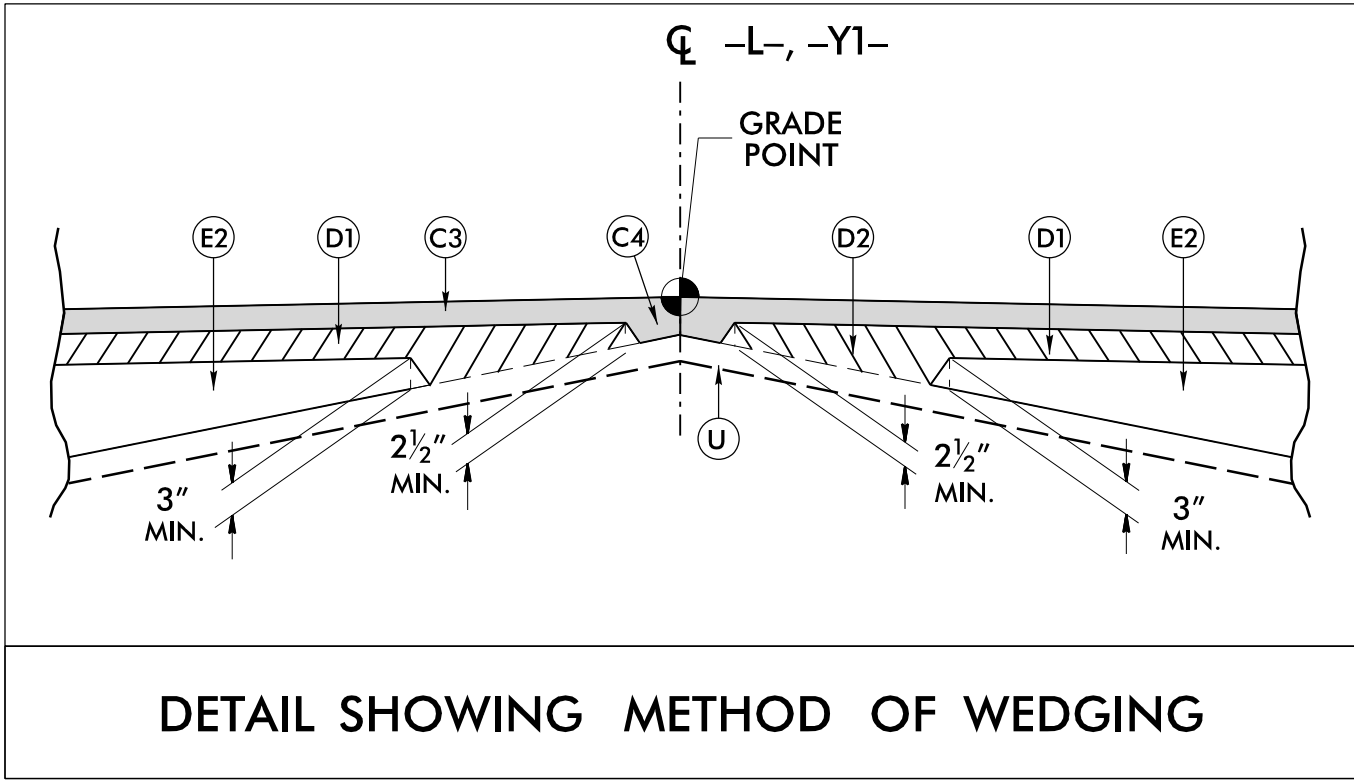
8/17/99

REVISIONS

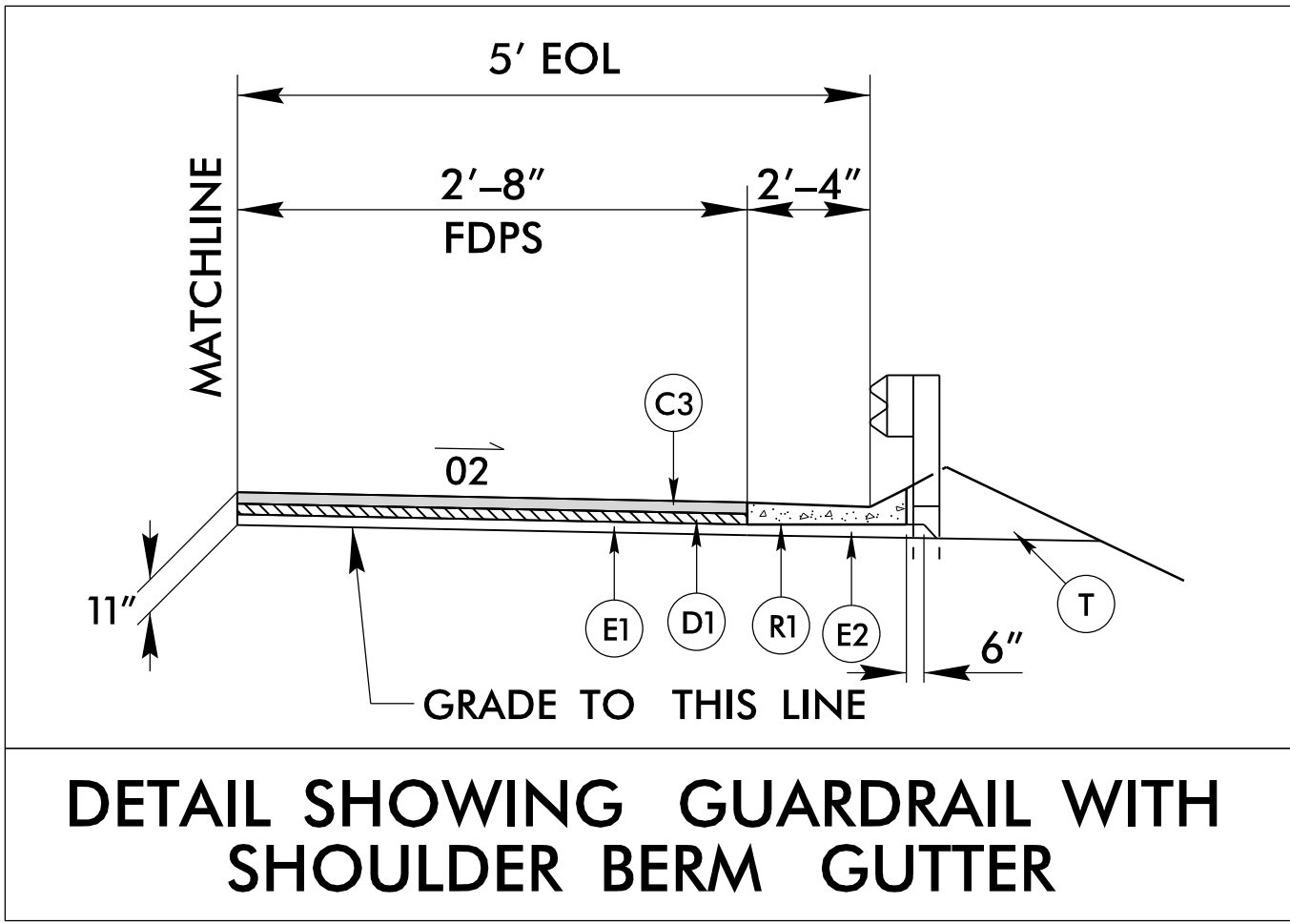
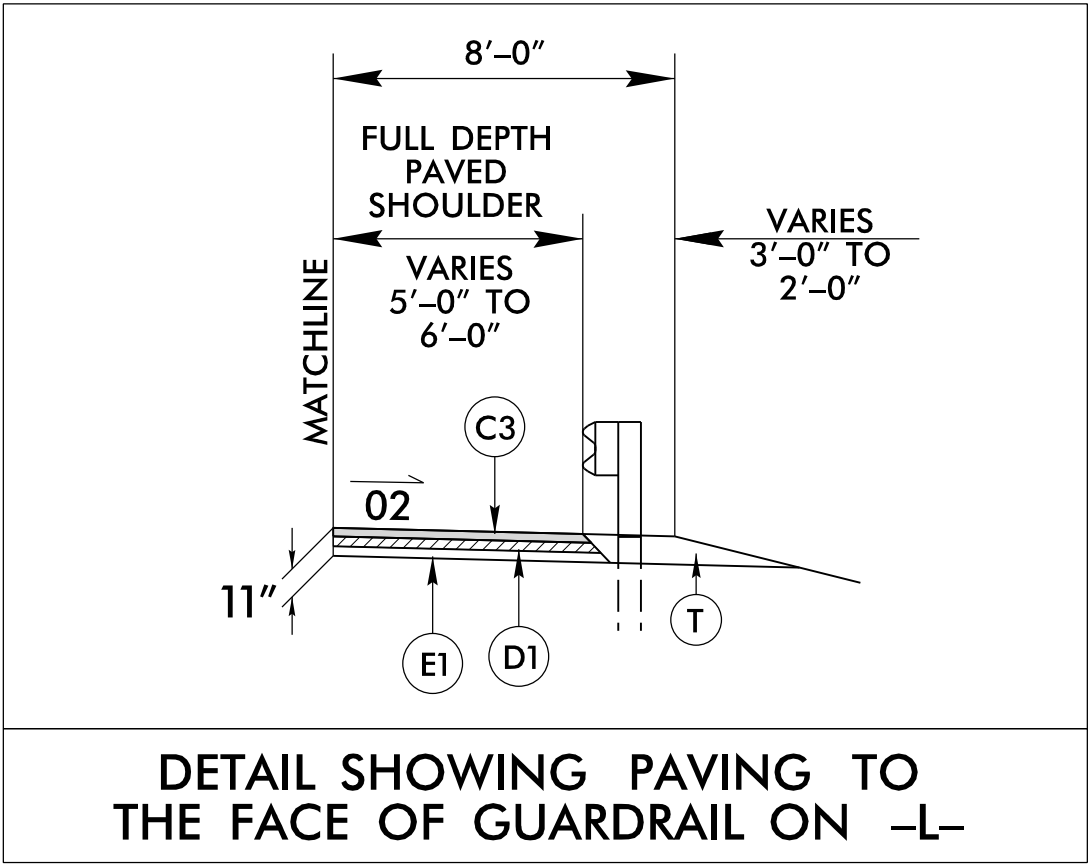
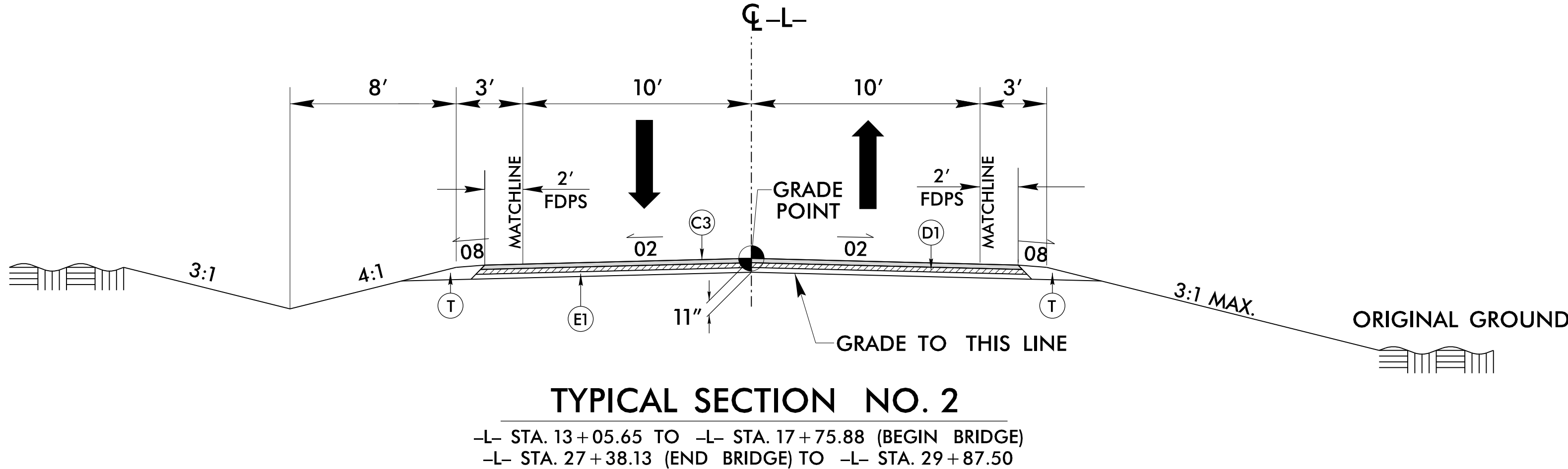
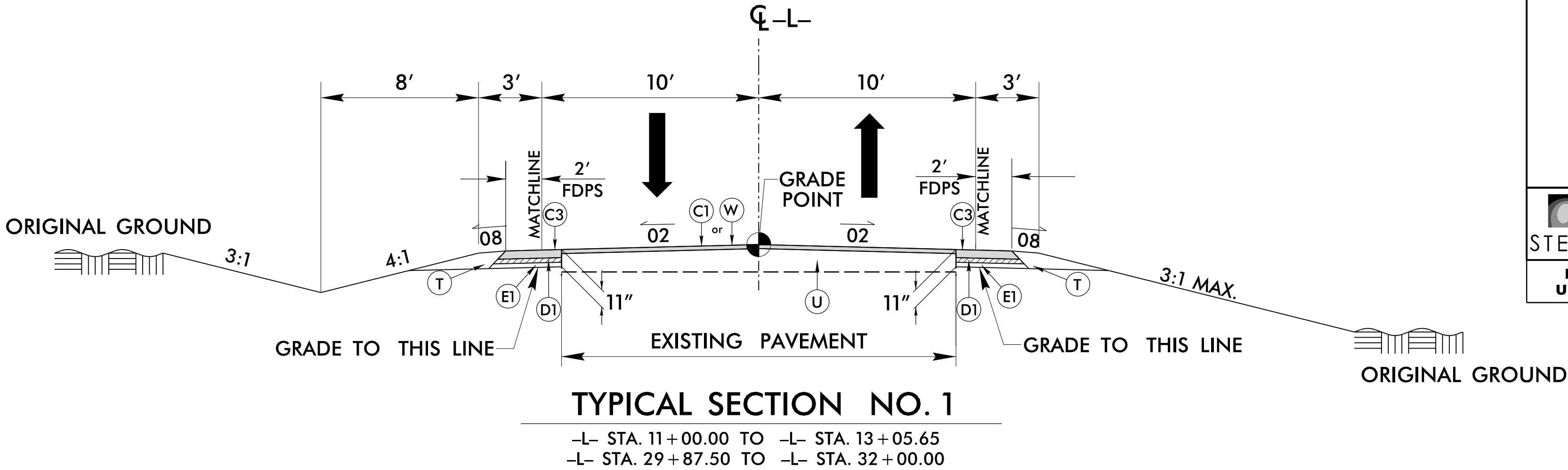
7/19/2021
R:\Projects\B5614.RDY_TYP.dgn
B5614

| PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN) | |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C1 | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. |
| C2 | PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| C3 | PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| C4 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH. |
| D1 | PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| D2 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 4" IN DEPTH. |
| E1 | PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| E2 | PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH. |
| J1 | PROP. 6" AGGREGATE BASE COURSE |
| P1 | PRIME COAT AT THE RATE OF .35 GAL. PER SQ. YD. |
| R1 | SHOULDER BERM GUTTER. |
| T | EARTH MATERIAL |
| U | EXISTING PAVEMENT |
| W | WEDGING DETAIL, SEE DETAIL THIS SHEET |



NOTE: PAVEMENT EDGE SLOPES ARE 1:1, UNLESS SHOWN OTHERWISE



-L- STA. 11+00.00 TO -L- STA. 11+50.00
-L- STA. 31+50.00 TO -L- STA. 32+00.00
-Y1- STA. 12+00.00 TO -Y1- STA. 12+50.00



USE SHOULDER BERM GUTTER AT THE FOLLOWING LOCATIONS:
-L- STA. 17+44.00 TO -L- STA. 17+58.49 LT
-L- STA. 17+50.00 TO -L- STA. 17+66.08 RT
-L- STA. 27+47.93 TO -L- STA. 27+67.00 LT
-L- STA. 27+55.52 TO -L- STA. 27+67.00 RT

| PROJECT REFERENCE NO. | SHEET NO. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B-5614 | 2A-1 |
| ROADWAY DESIGN ENGINEER | PAVEMENT DESIGN ENGINEER |
|  STEWART Firm License No. C-1101 222 S. WEST ST. SUITE 1100 RALEIGH, NC 27603 TEL: 919.386.8500 WWW.STEWARTINC.COM |  STEWART Firm License No. C-1101 222 S. WEST ST. SUITE 1100 RALEIGH, NC 27603 TEL: 919.386.8500 WWW.STEWARTINC.COM |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

NOT TO SCALE

PAVEMENT EDGE SLOPES ARE 1:1,
UNLESS SHOWN OTHERWISE

8/17/99

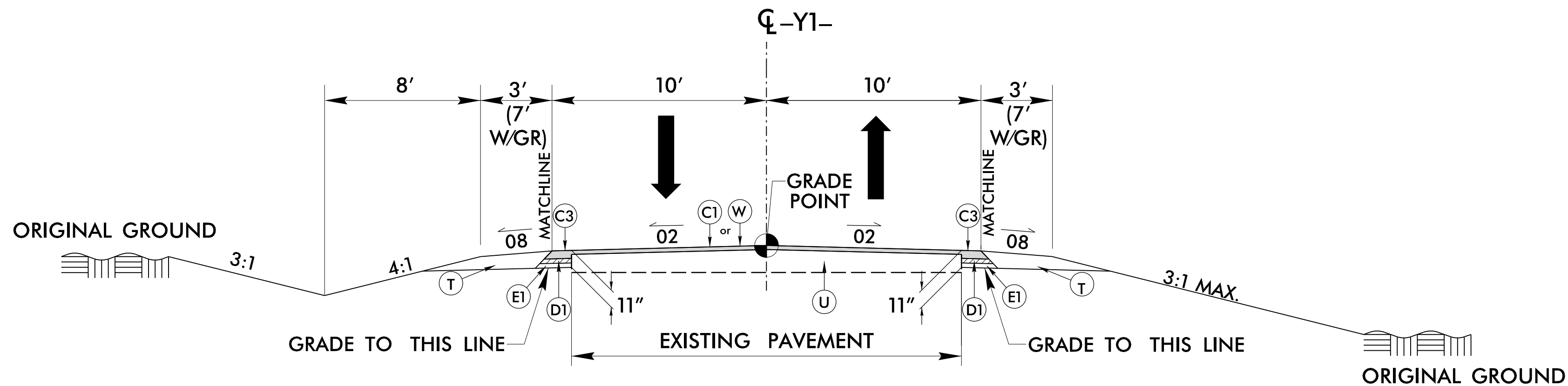
REVISIONS

7/19/2021
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USER:imbuds



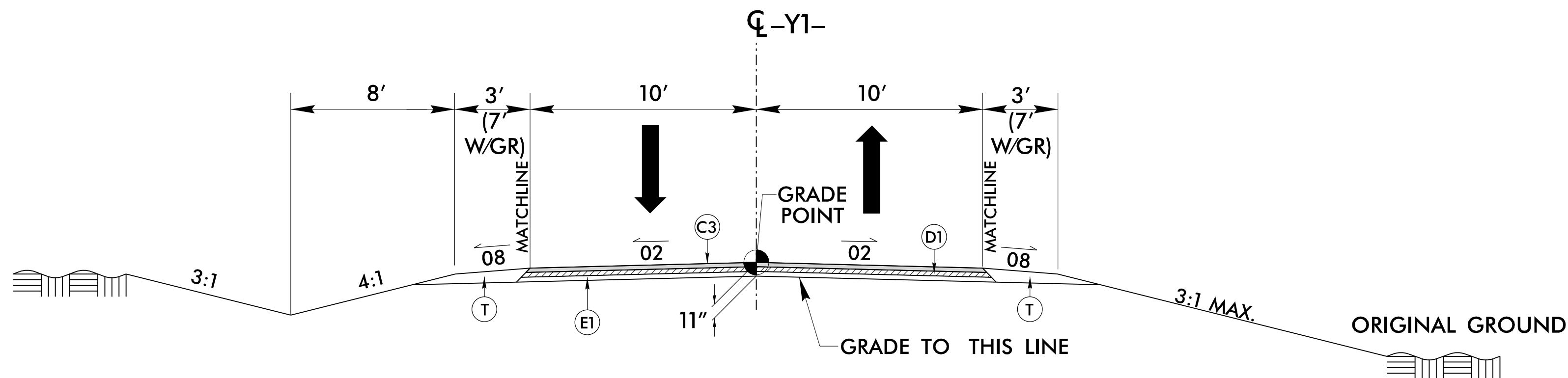
-L- STA. 17+75.88 TO -L- STA. 27+38.13

*5-FOOT BRIDGE OFFSETS TO ACCOMMODATE
HYDRAULIC SPREAD.



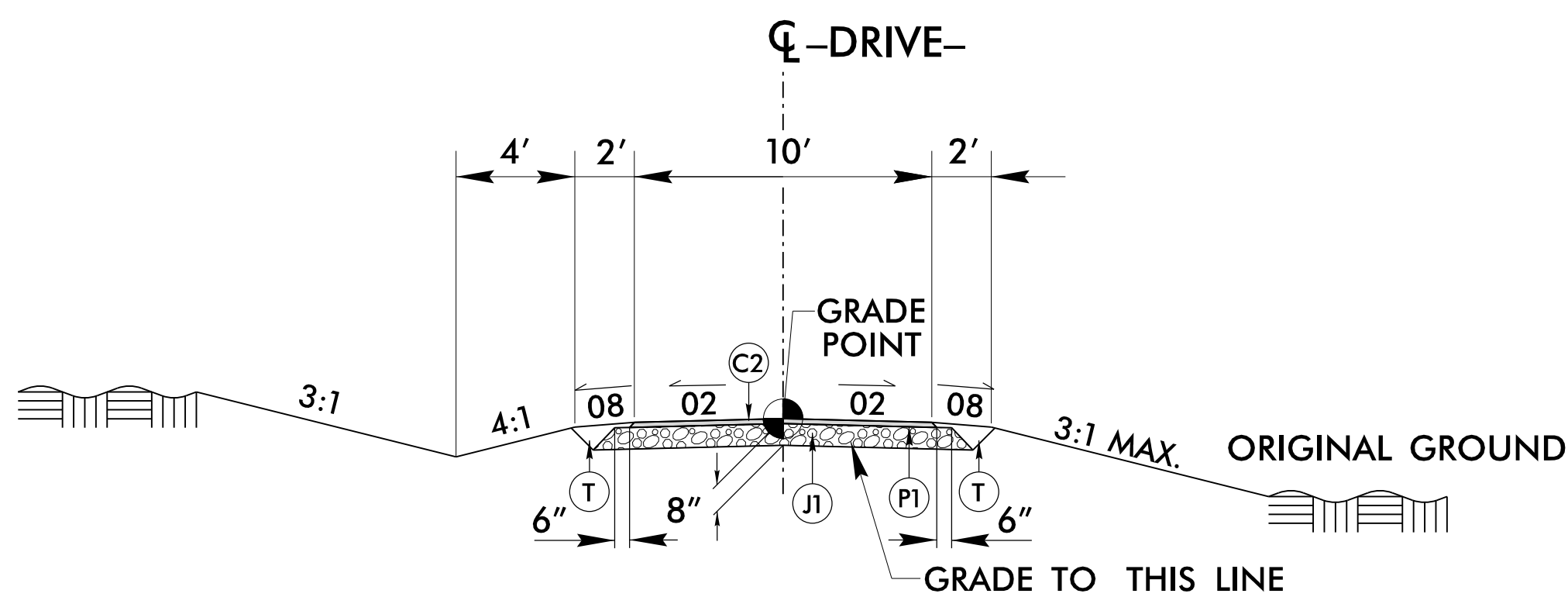
TYPICAL SECTION NO. 4

-Y1- STA. 11+67.00 -Y1- TO STA. 12+50.00



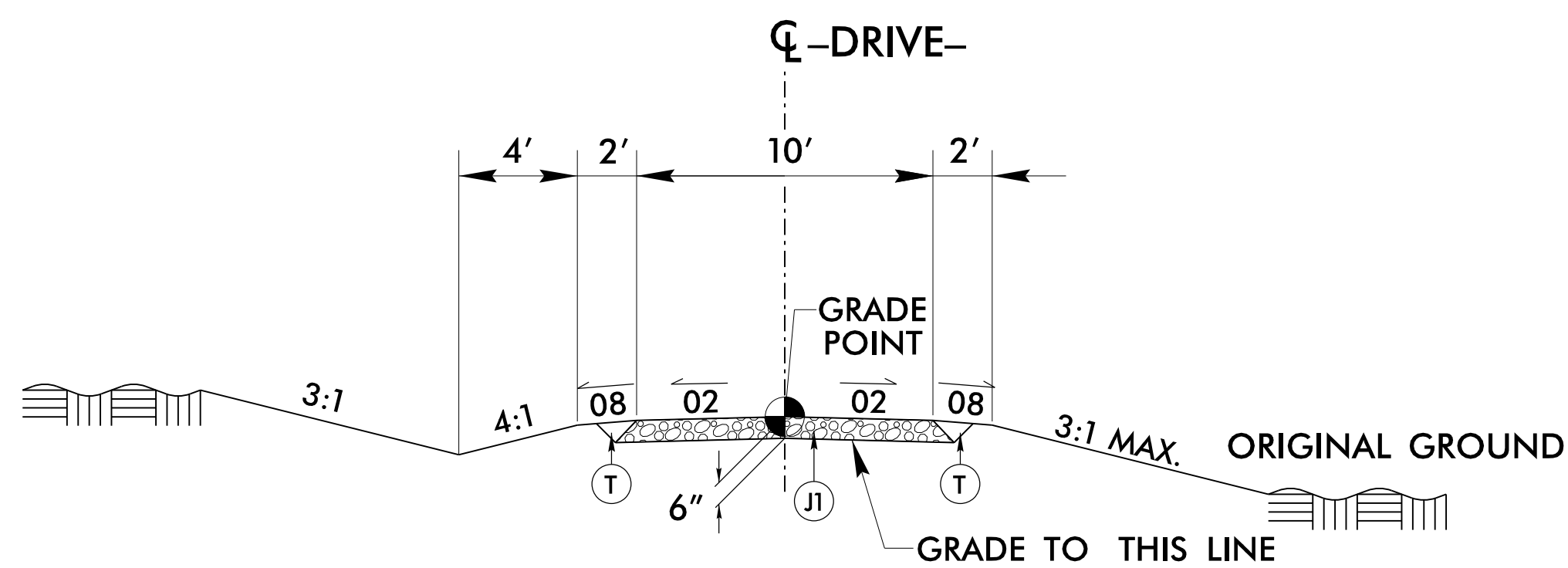
TYPICAL SECTION NO. 5

—Y1— STA. 10+10.00 TO —Y1— STA. 11+67.00



TYPICAL SECTION NO. 6

-DRIVE- STA. 10+10.00 TO -DRIVE- STA. 10+35.00



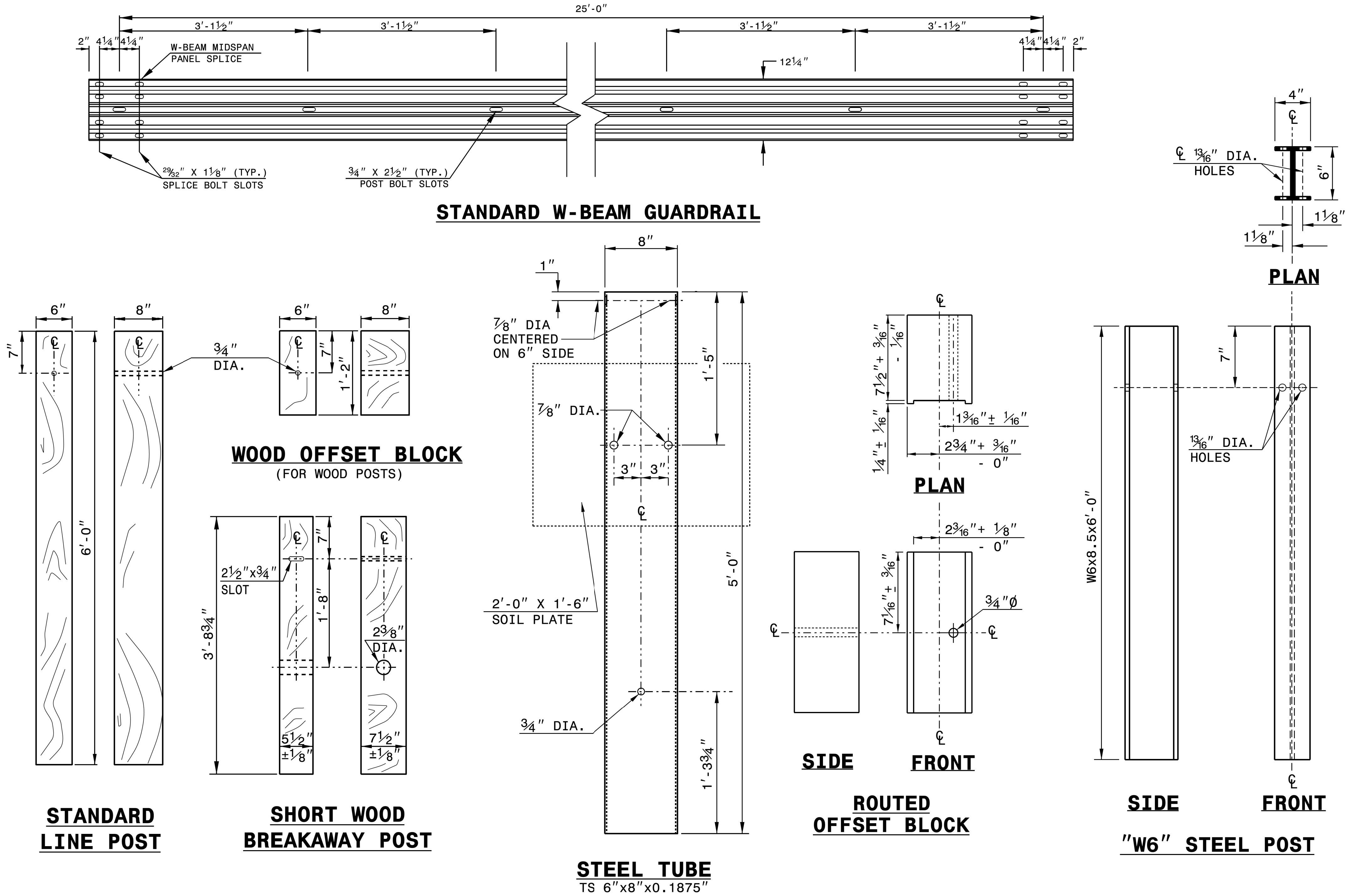
TYPICAL SECTION NO. 7

-DRIVE- STA. 10+35.00 TO -DRIVE- STA. 11+95.00

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02



STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02



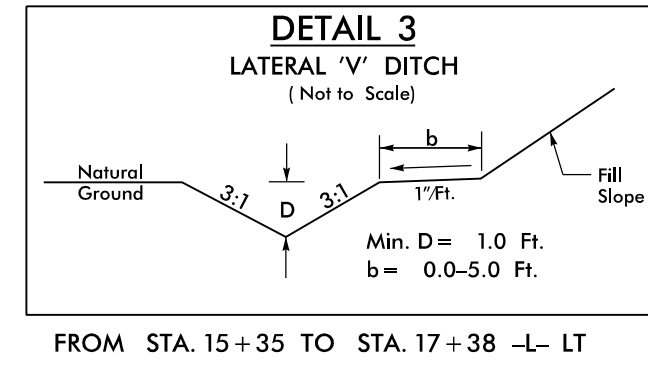
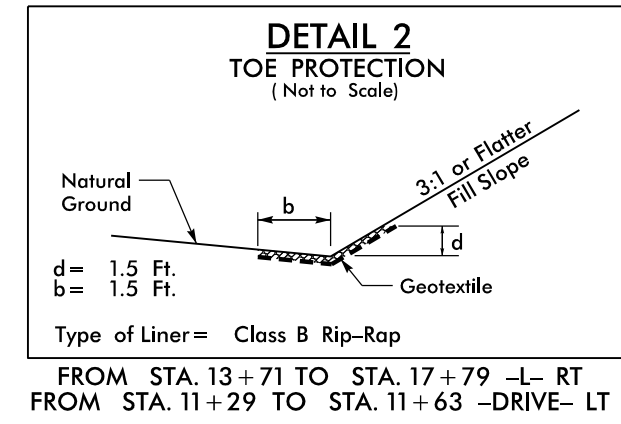
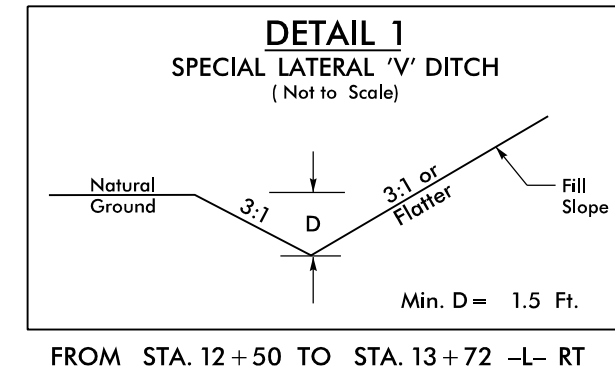
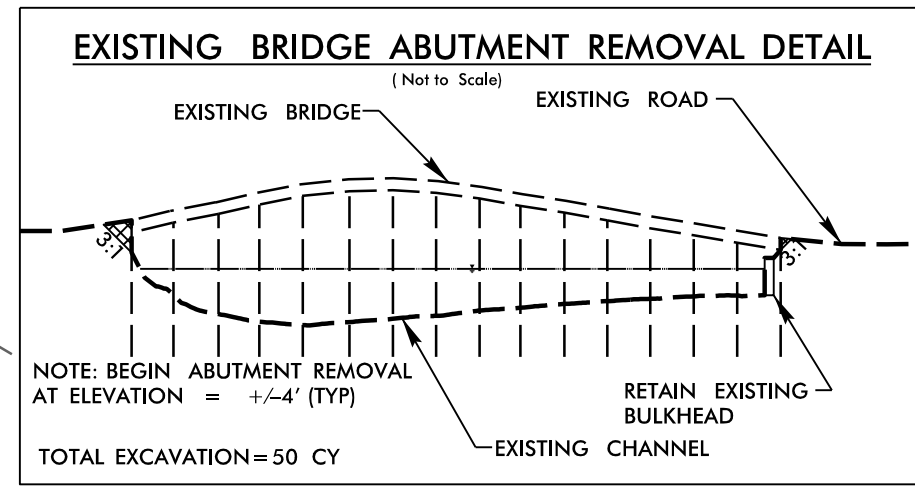
8/17/99



REVISIONS

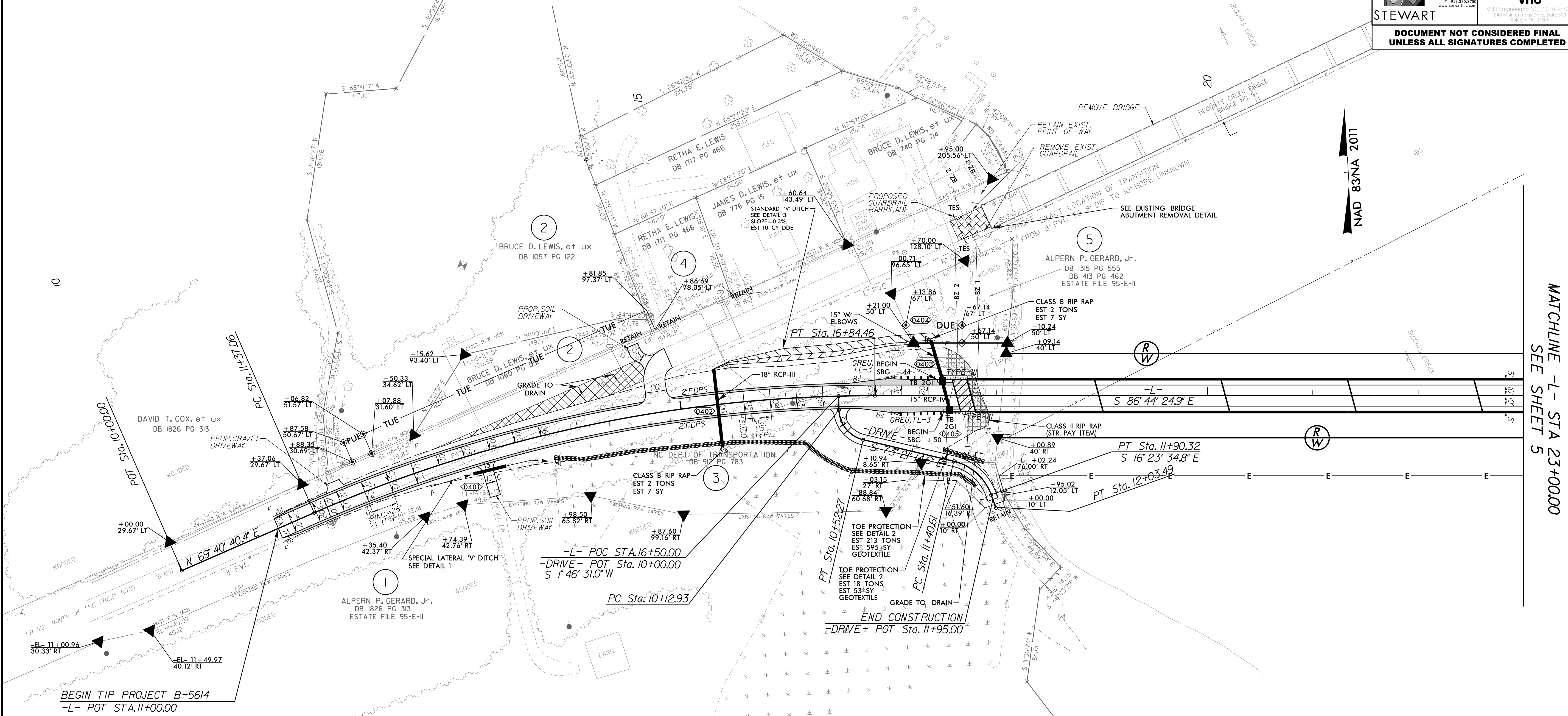
10/11/2021 B5614_RDY_PS+04.dgn
USER: jcooper

-L-
PI Sta 14+14.69
 $\Delta = 23^\circ 34' 54.7''$ (RT)
D = 4' 18" 28.6"
L = 547.40'
T = 277.63'
R = 1,330.00'
S_e = 6%
Runoff = 150'

-DRIVE-
PI Sta 10+36.00
 $\Delta = 75^\circ 07' 45.7''$ (LT)
D = 190' 59' 09.4"
L = 39.34'
T = 23.07'
R = 30.00'
PI Sta 11+67.73
 $\Delta = 56^\circ 57' 39.9''$ (RT)
D = 114' 35' 29.6"
L = 49.71'
T = 27.13'
R = 50.00'



| PROJECT REFERENCE NO. | | SHEET NO. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B-5614 | | 4 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER | |
|  Firm License No. C-10151 223 S. West St. Raleigh, NC 27603 T: 919.386.8999 www.stewartinc.com | |  VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Durham, NC 27606 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | | |



NAD 83NA 2011

MATCHLINE -L- STA 23+00.00
SEE SHEET 5

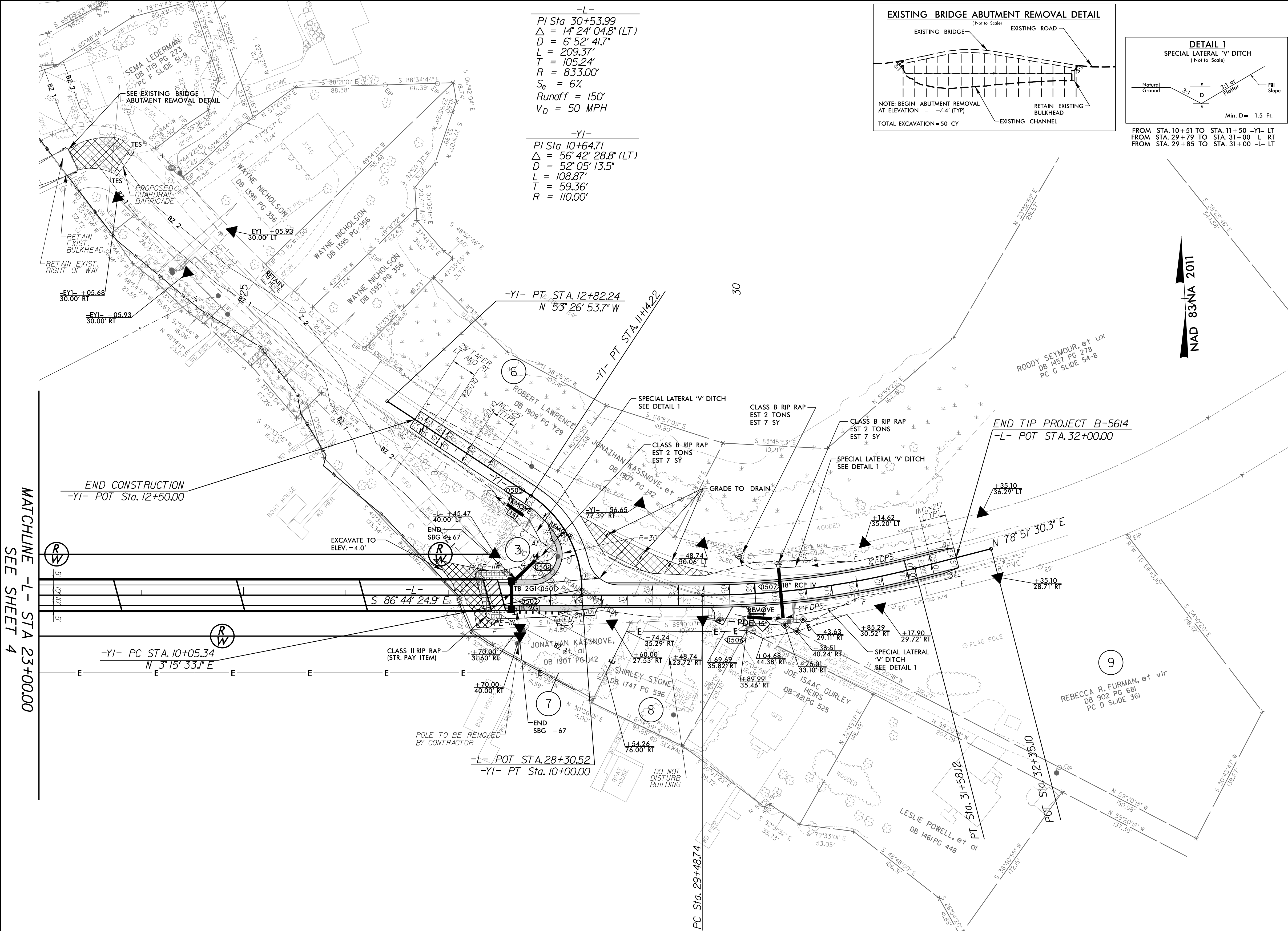
PAVEMENT REMOVAL

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

8/17/99

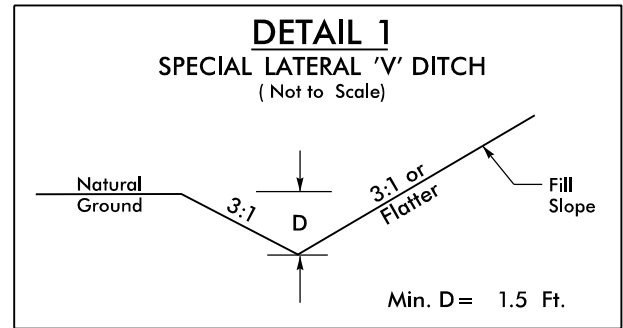
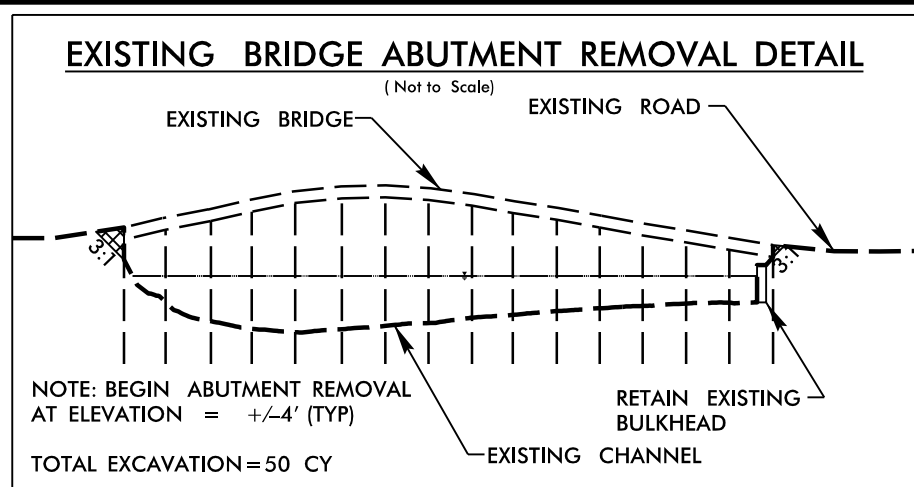
REVISIONS

10/11/2021 B5614_RDY_PSH05.dgn
USER: jcooper





-L-
PI Sta 30+53.99
 $\Delta = 14^{\circ} 24' 04.8''$ (LT)
 $D = 6^{\circ} 52' 41.7''$
 $L = 209.37'$
 $T = 105.24'$
 $R = 833.00'$
 $S_e = 6\%$
Runoff = 150'
 $V_D = 50$ MPH

-YI-
PI Sta 10+64.71
 $\Delta = 56^{\circ} 42' 28.8''$ (LT)
 $D = 52^{\circ} 05' 13.5''$
 $L = 108.87'$
 $T = 59.36'$
 $R = 110.00'$



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. | | SHEET NO. |
|----------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------|
| B-5614 | | 5 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER | |
|  STEWART | |  VHB |
| Firm License No. C-15151 223 S. West St. Raleigh, NC 27603 T 919.386.8999 www.stewartinc.com | | VHB Engineering N.C., P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | | |



ALL DRIVEWAY RADII ARE 10'
FOR -L- PROFILE SEE SHEET 7
FOR -YI- PROFILE SEE SHEET 8

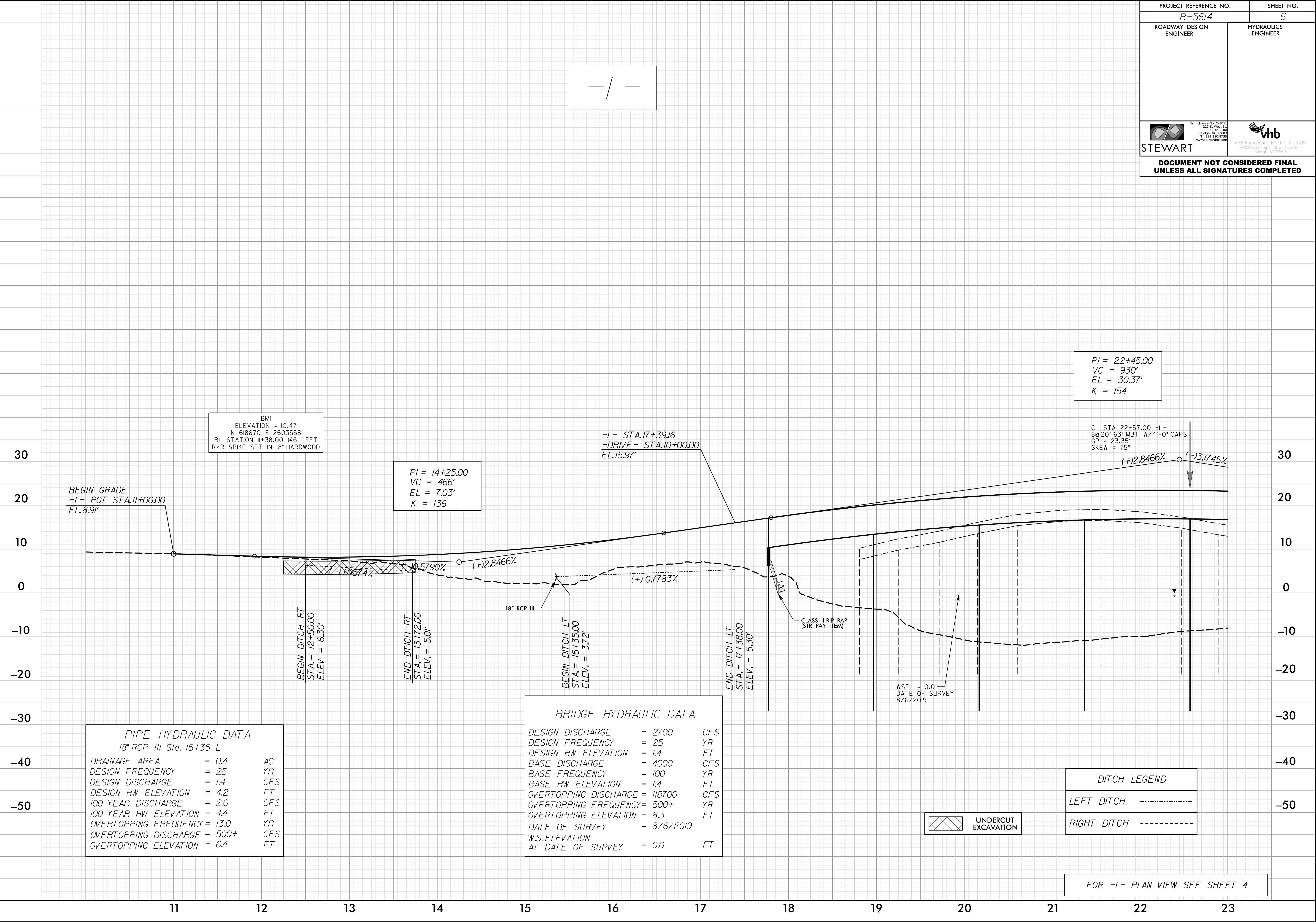
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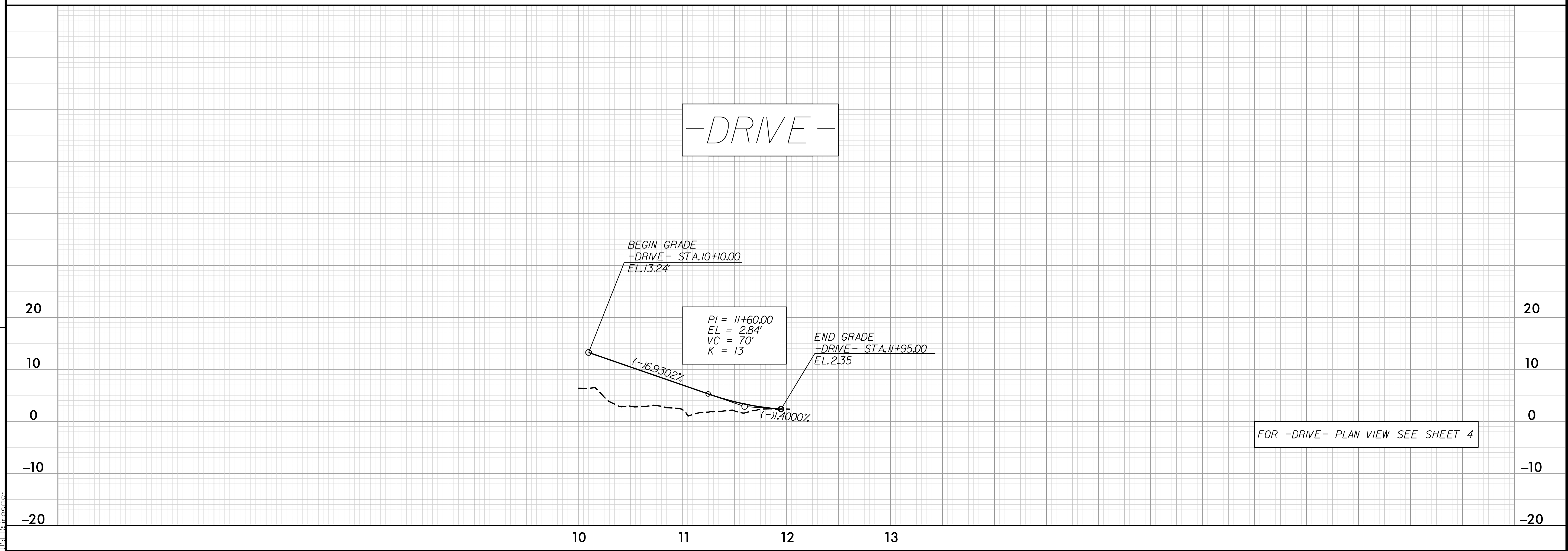
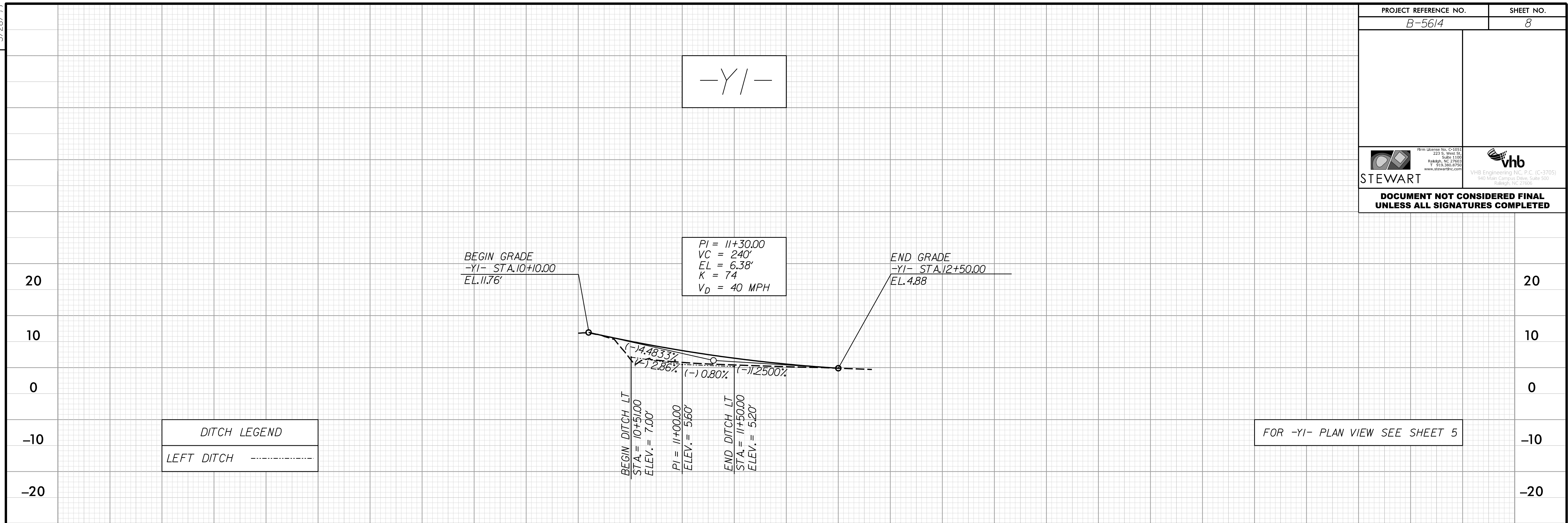
REVISIONS

5/14/99

10/16/2023 B5614_RDY_PFL06.dgn
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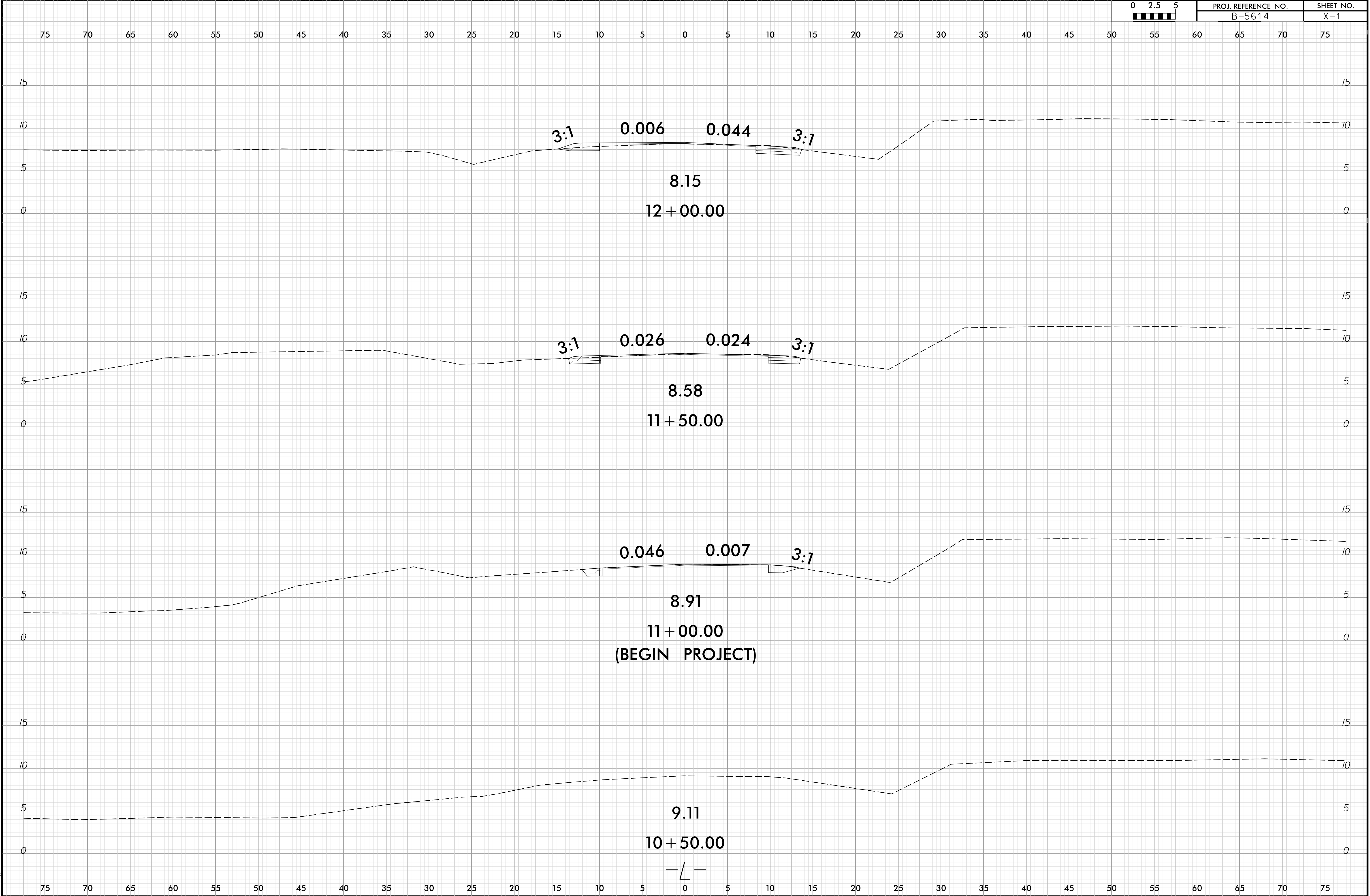
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| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER |
|  Firm License No. C-15021 223 S. West St. Raleigh, NC 27603 T: 919.286.8799 www.stewartinc.com | |  VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606 |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | | |





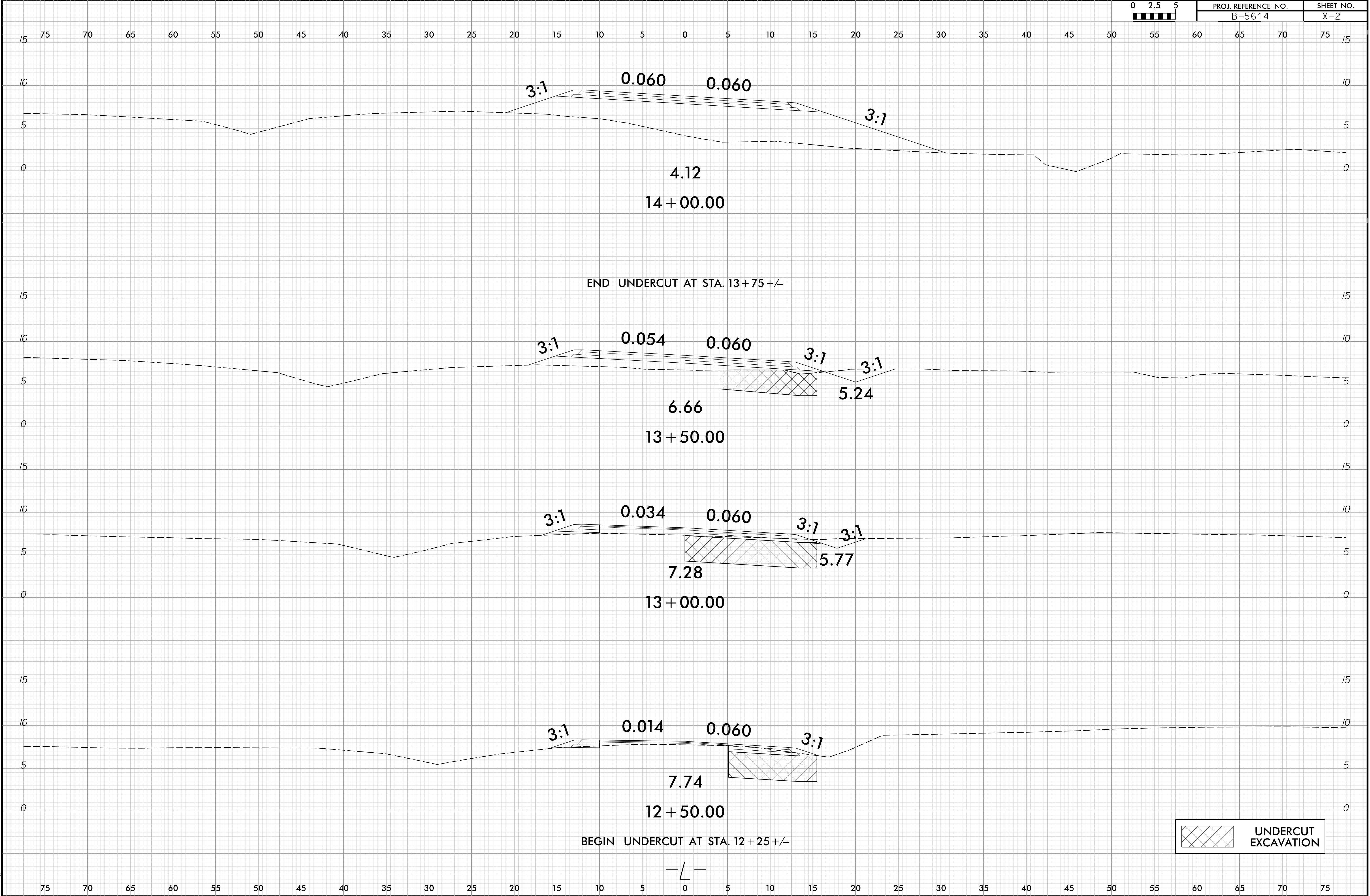
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10/11/2021
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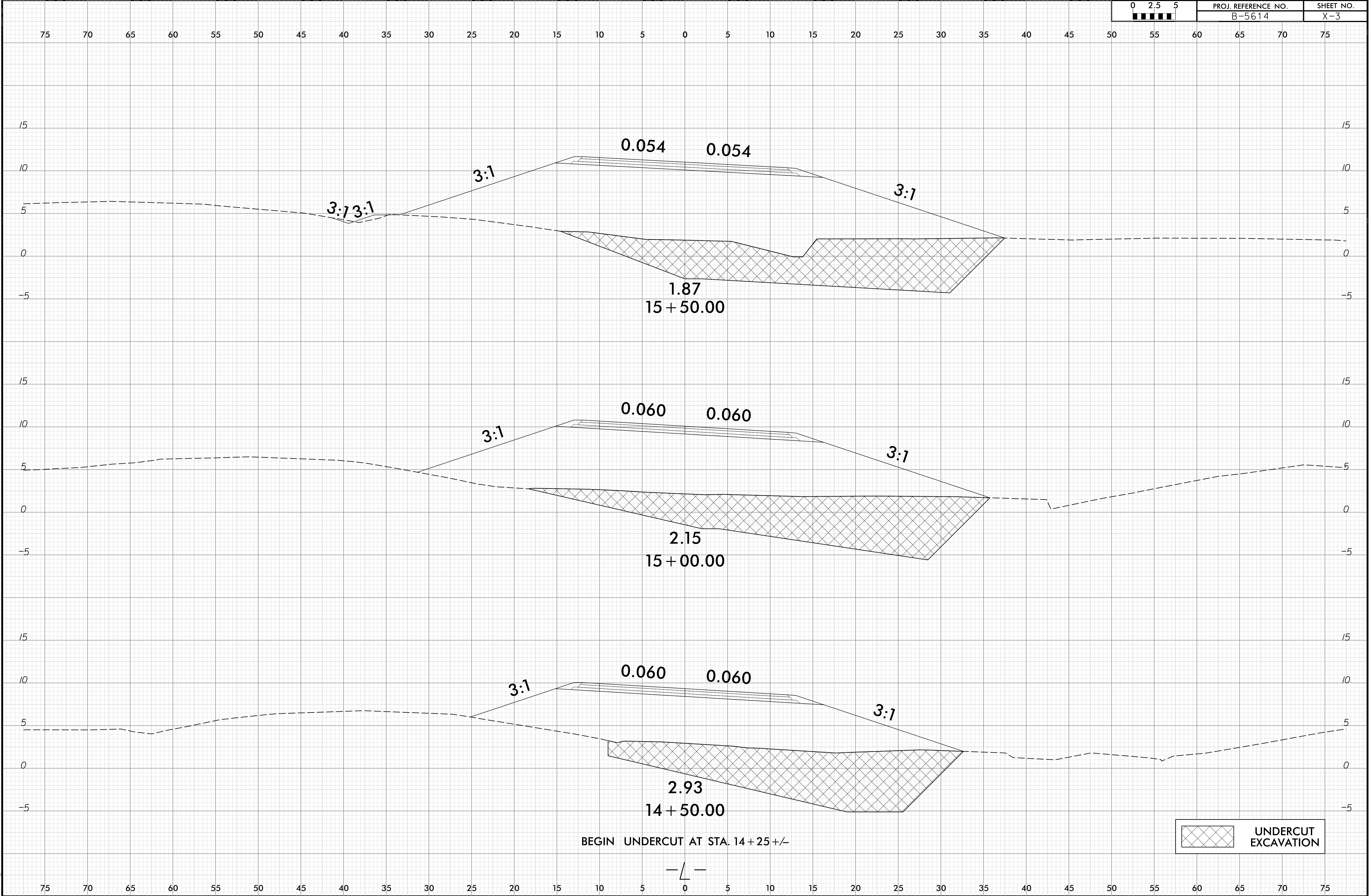
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10/11/2021
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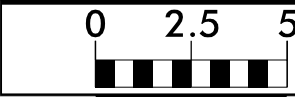


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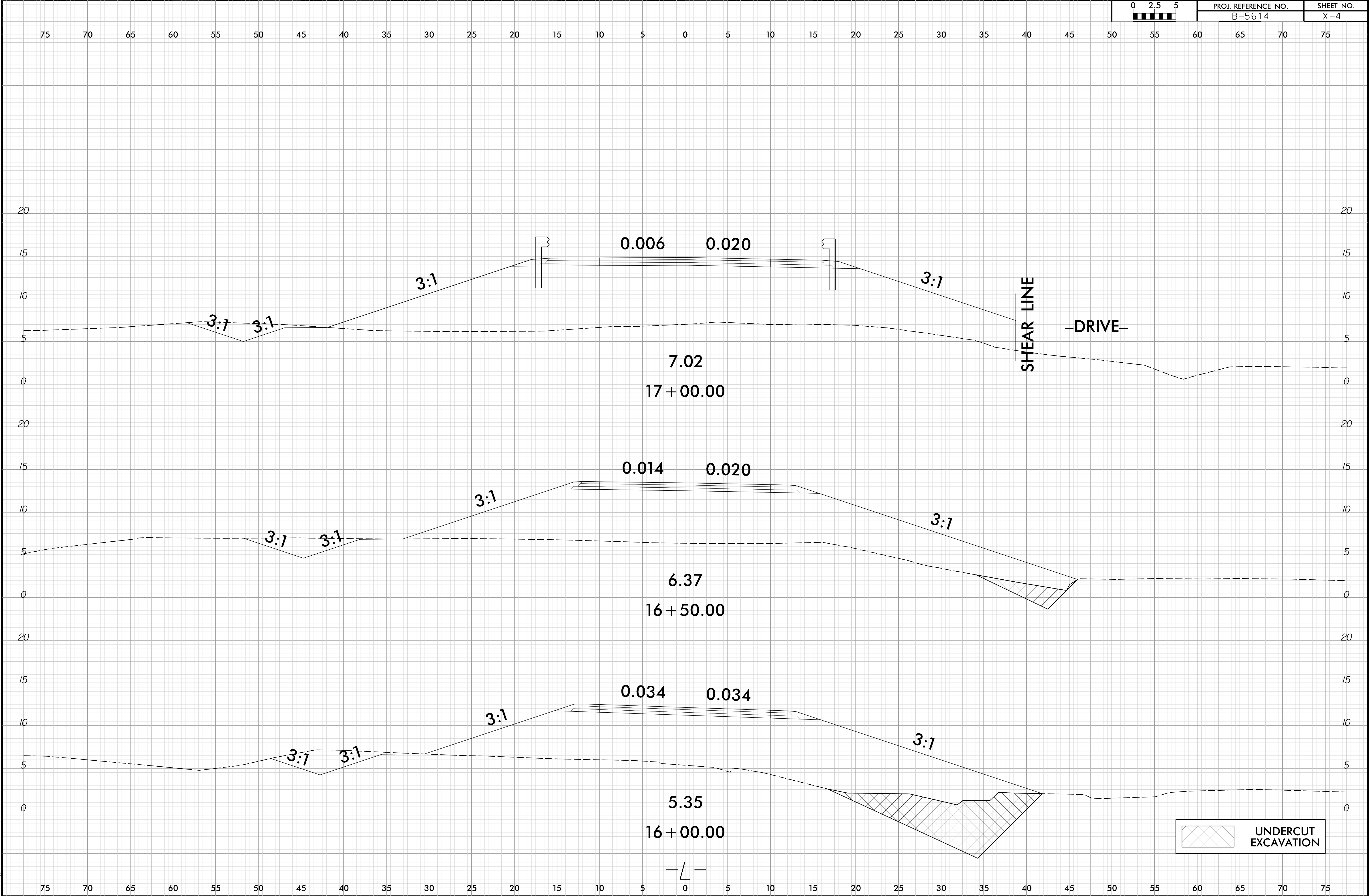
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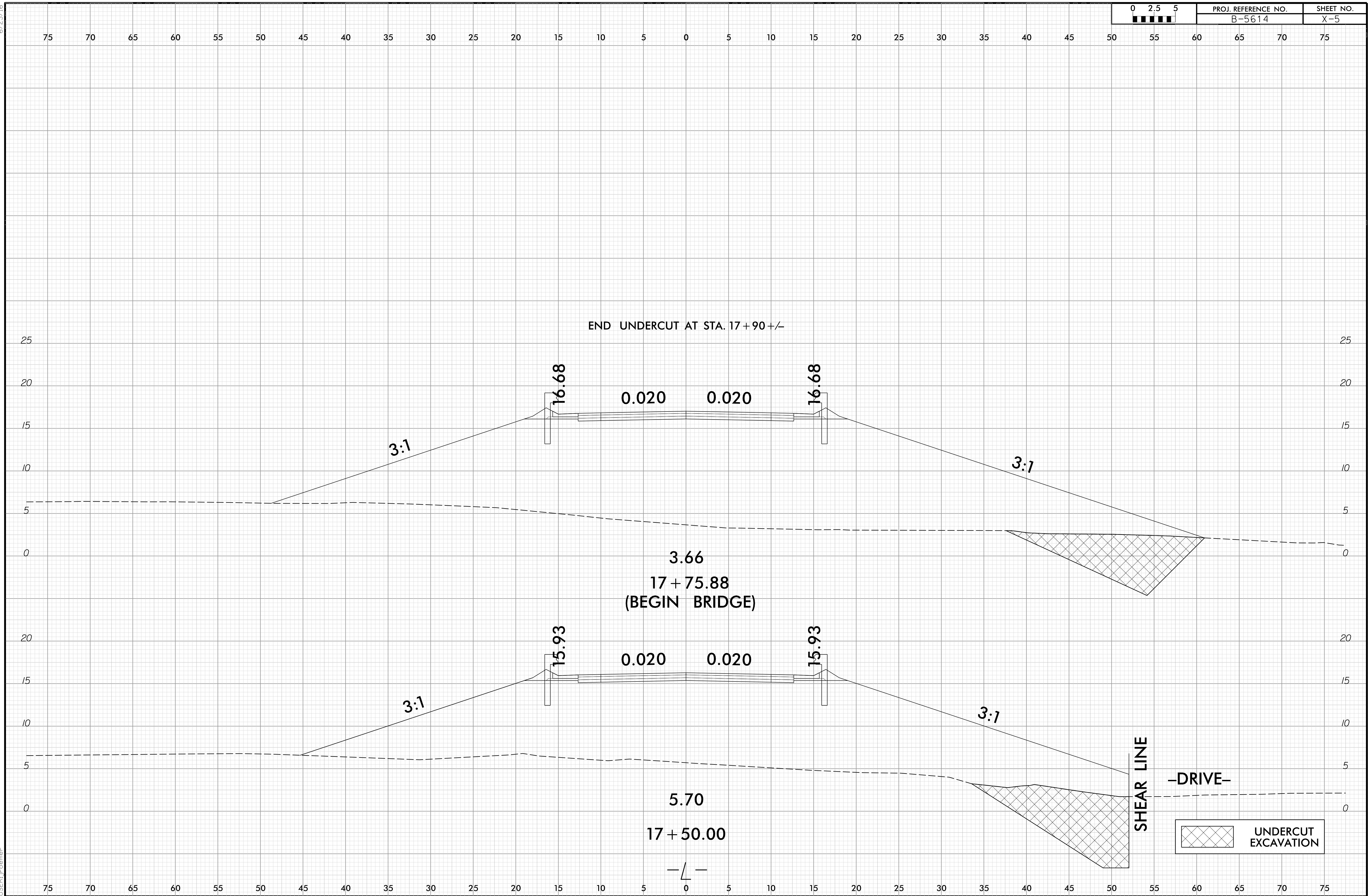
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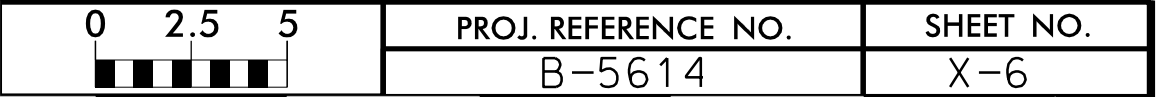


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| B-5614 | X-4 |

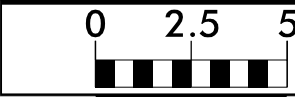


10/11/2021
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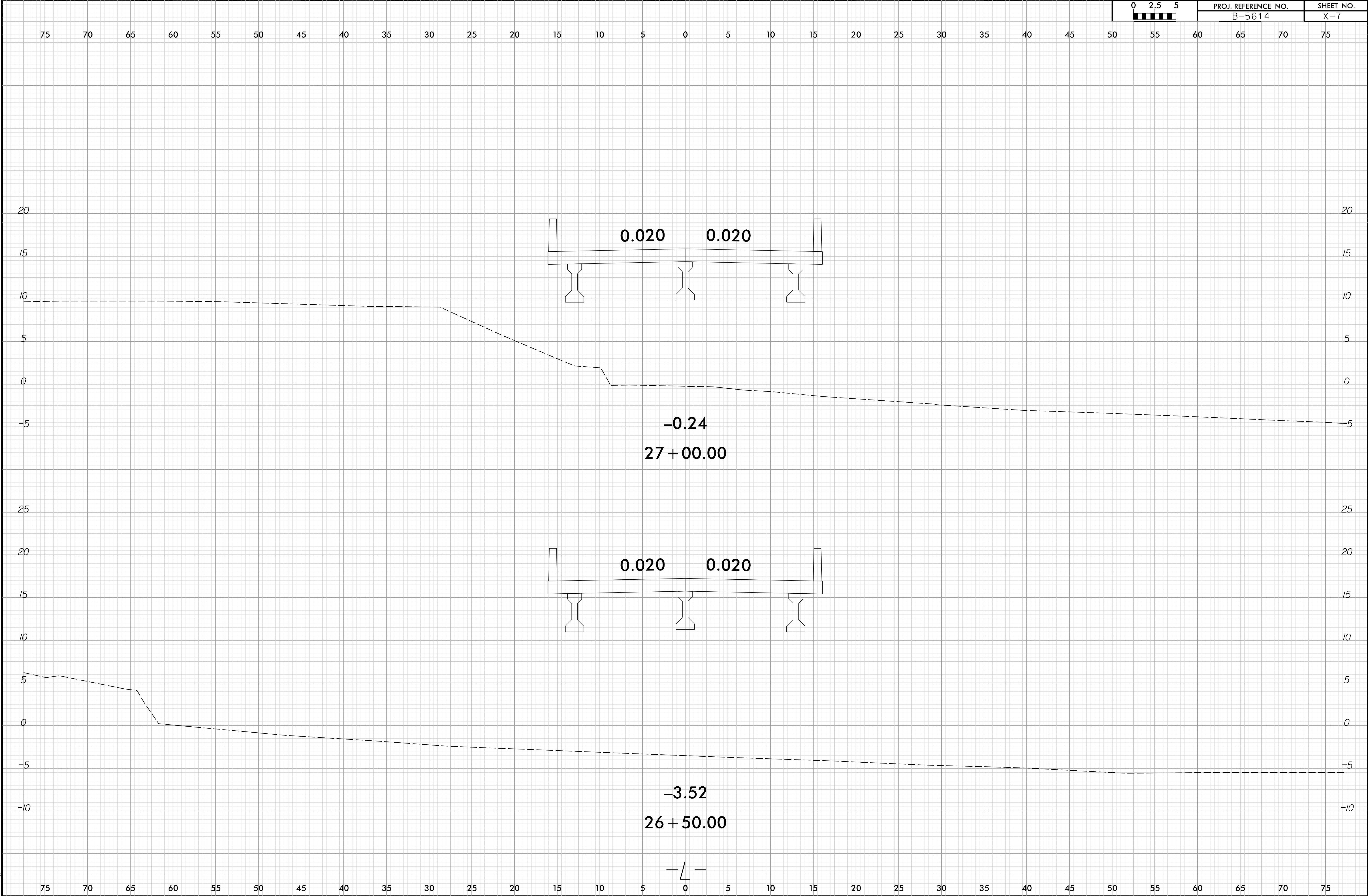


6/23/16



PROJ. REFERENCE NO.
B-5614

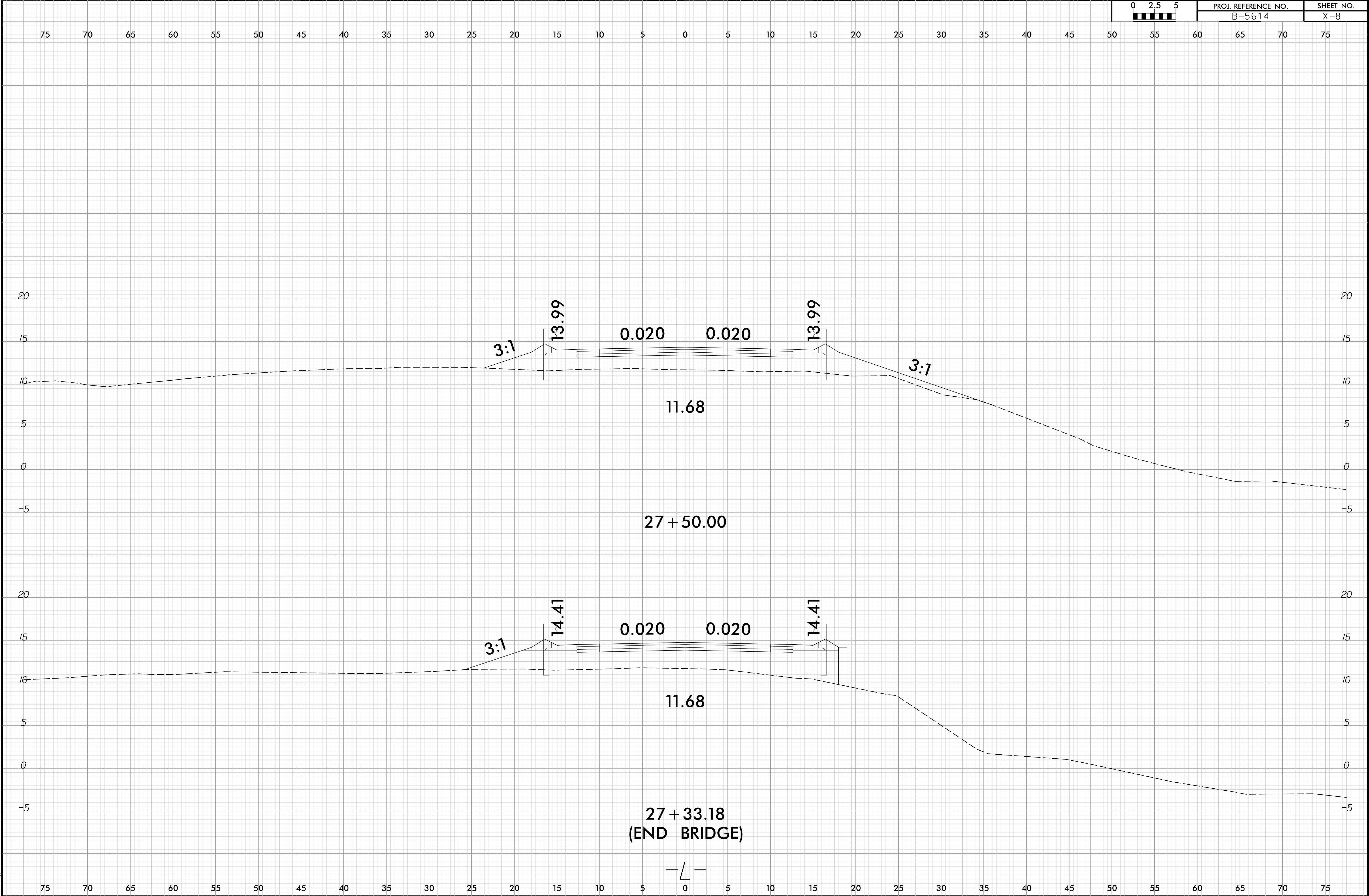
SHEET NO.
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6/23/16

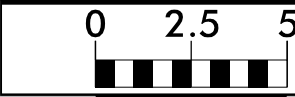


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| B-5614 | X-8 |

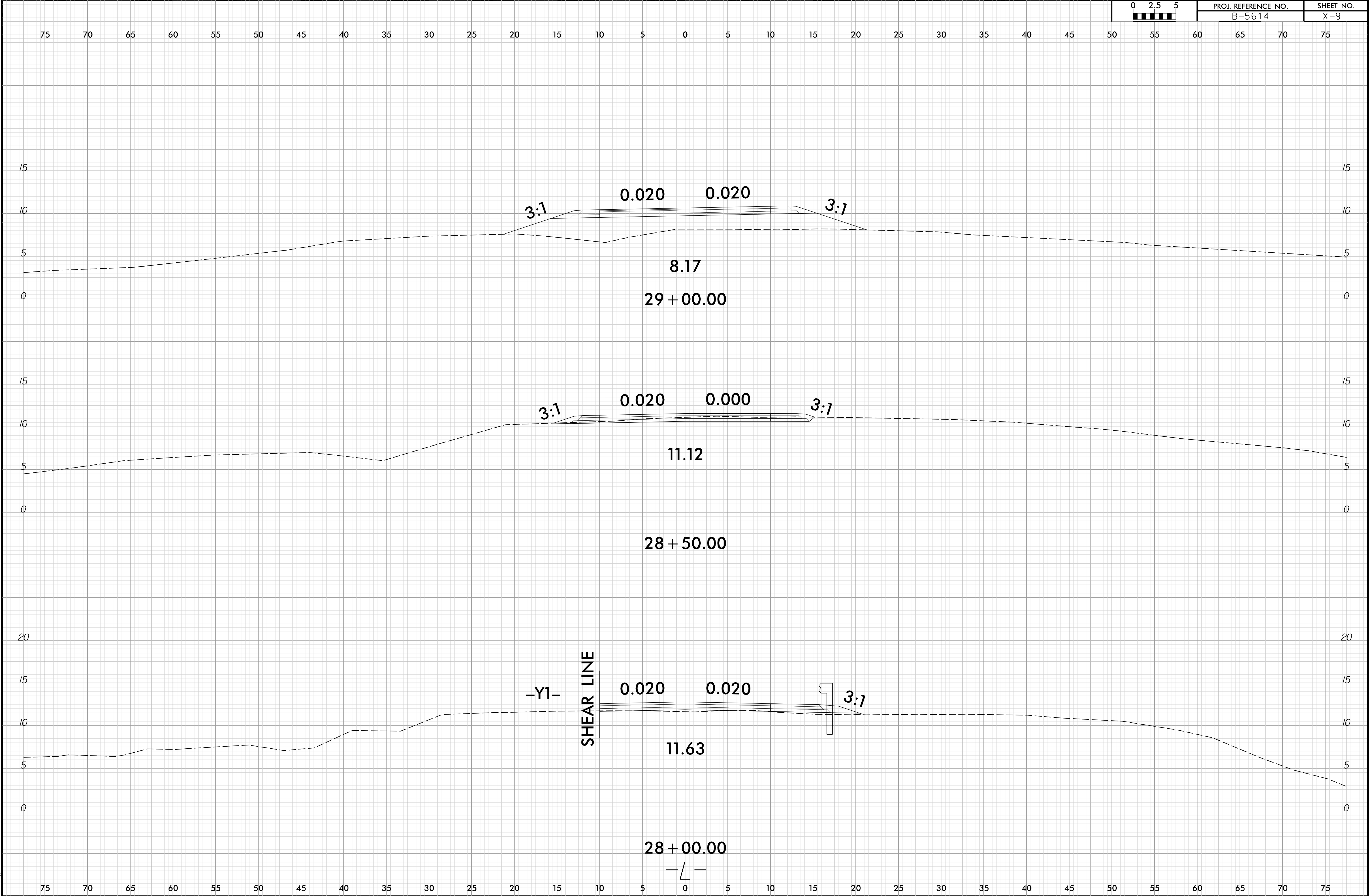


6/23/16

10/11/2021
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JTB:rcj,rcj



| PROJ. REFERENCE NO. | SHEET NO. |
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| B-5614 | X-9 |

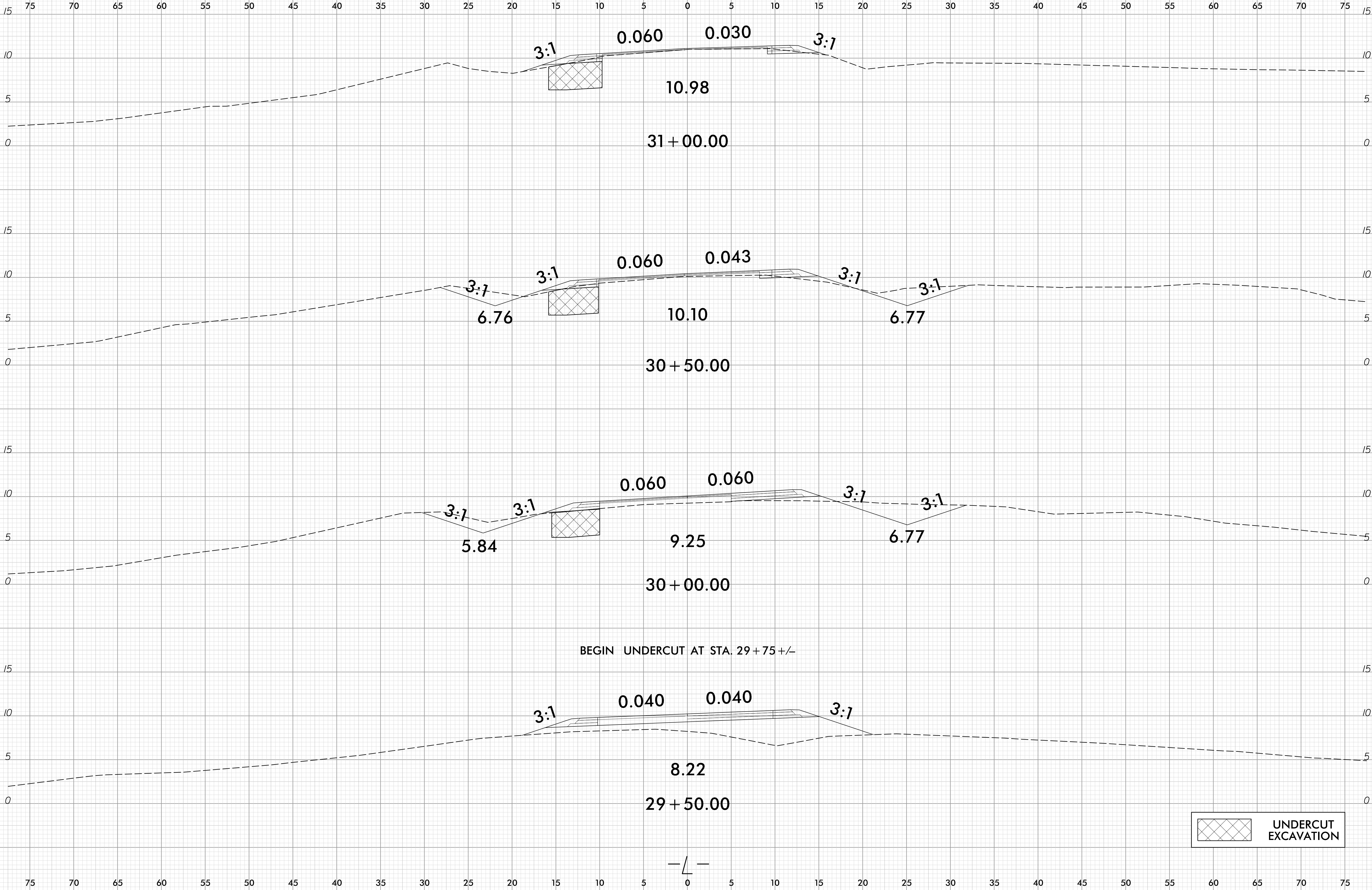


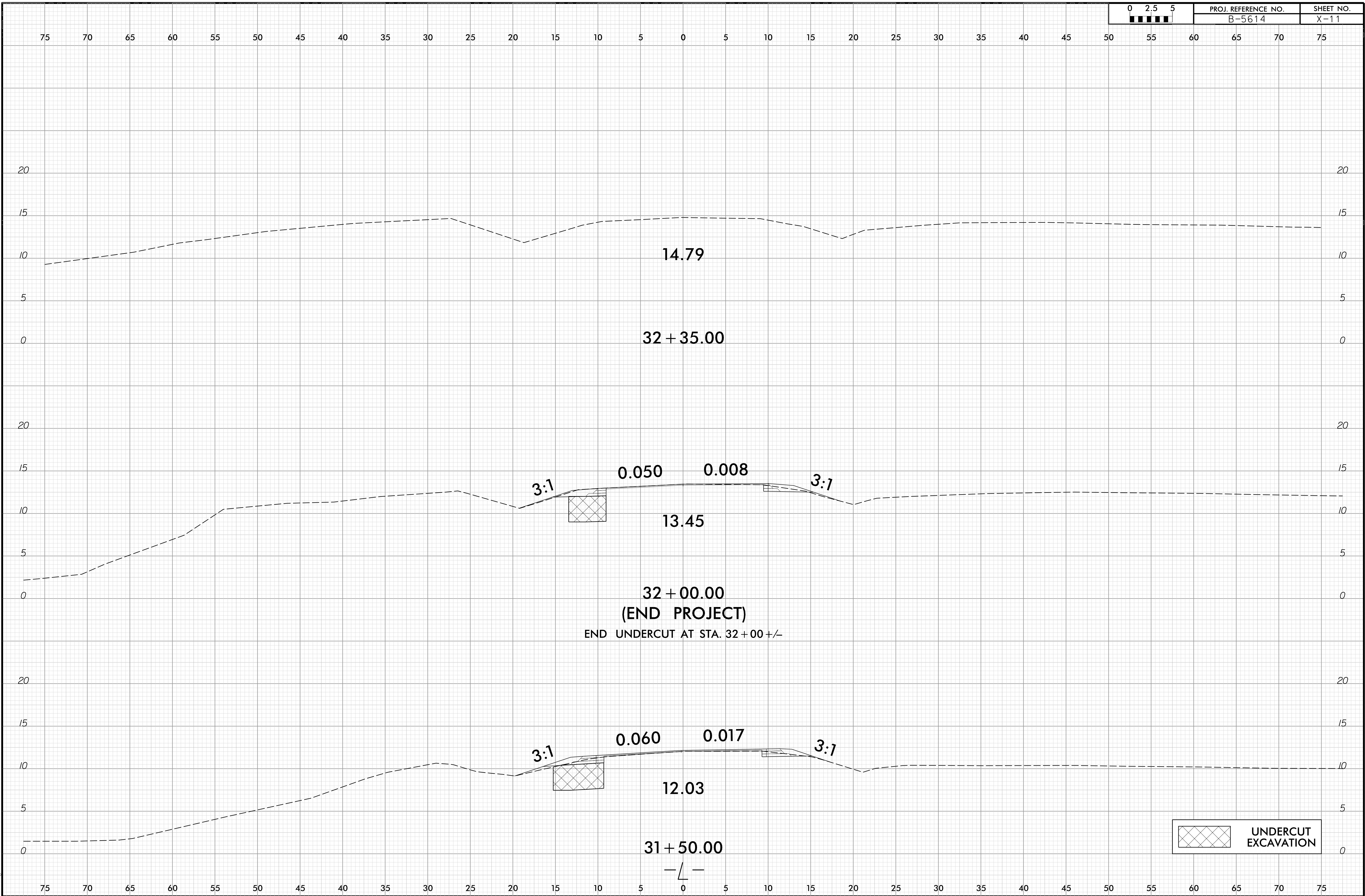
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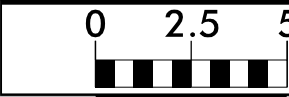
PROJ. REFERENCE NO.
B-5614

SHEET NO.
X-10

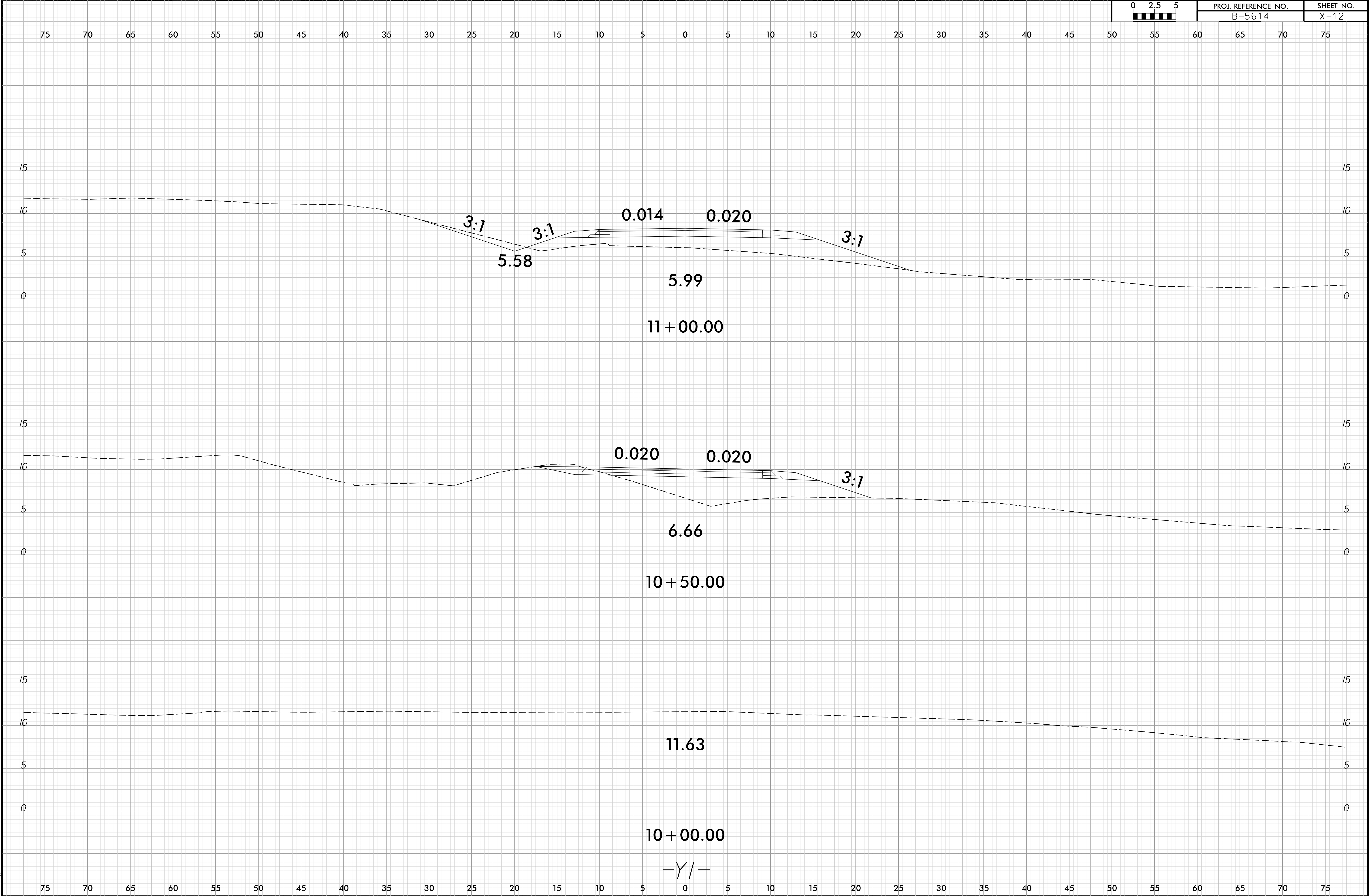




6/23/16



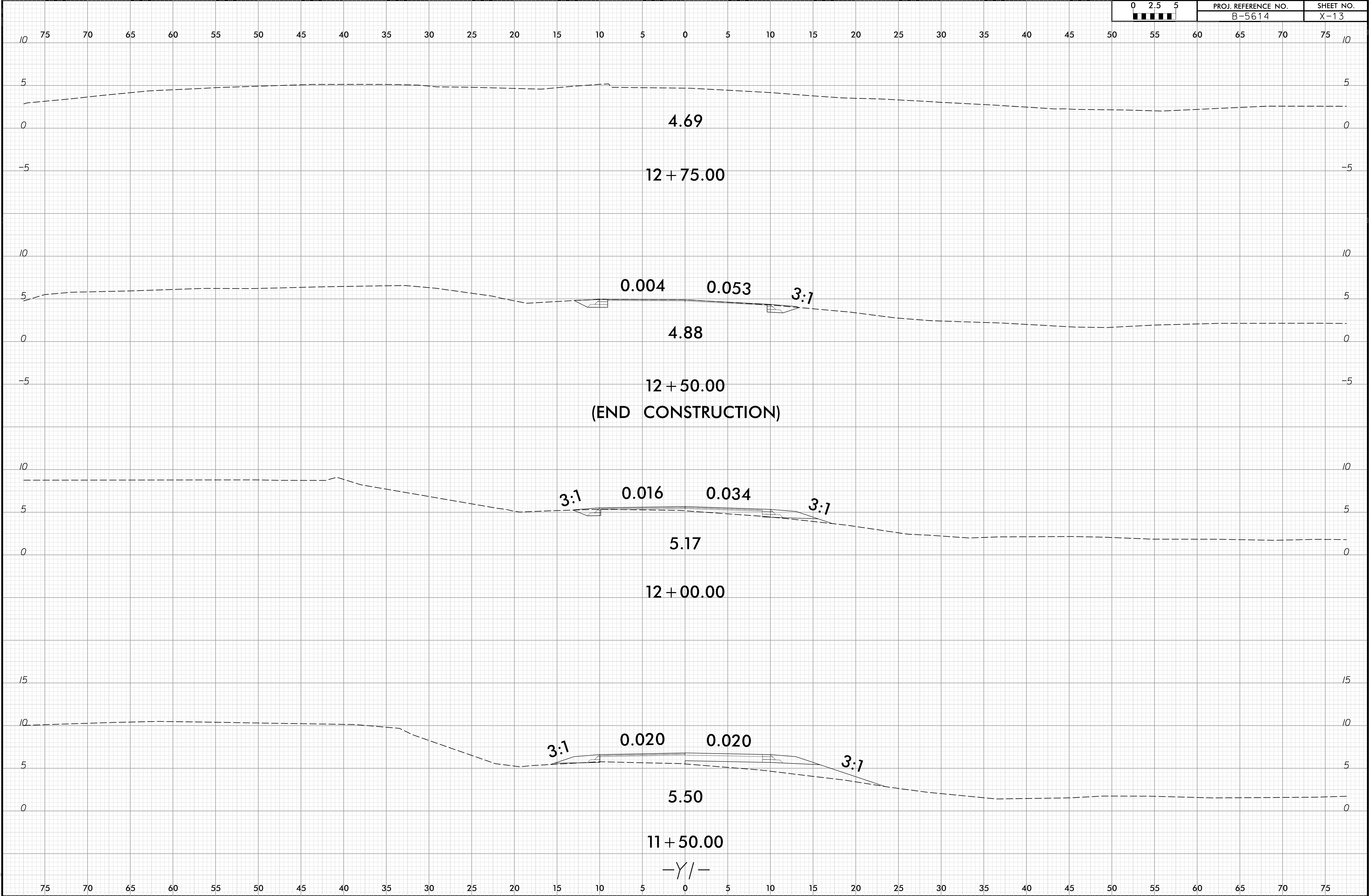
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| B-5614 | X-12 |



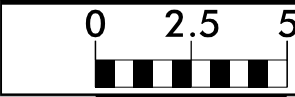
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10/11/2021
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| 0 2.5 5 | PROJ. REFERENCE NO. | SHEET NO. |
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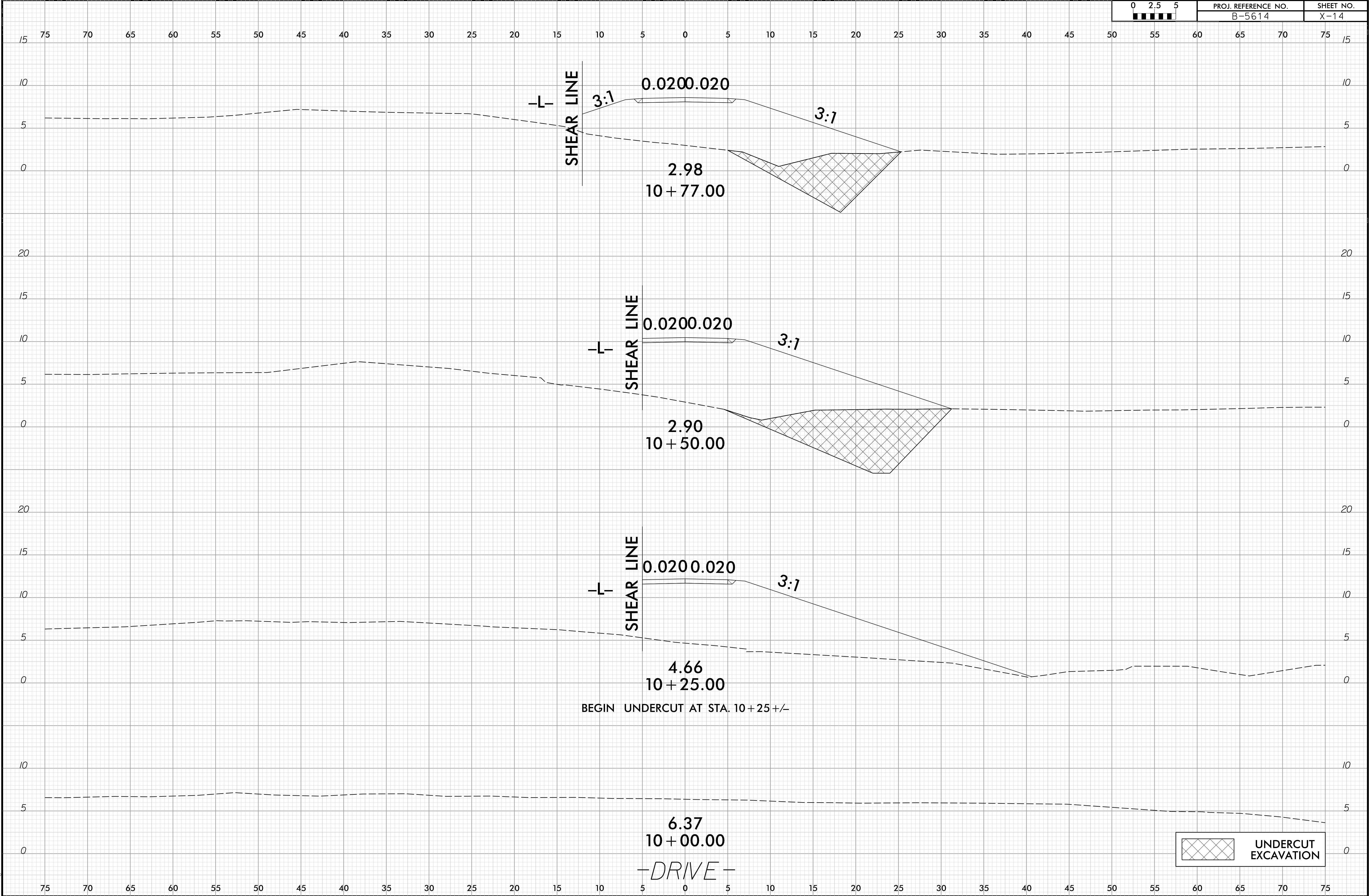


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B-5614

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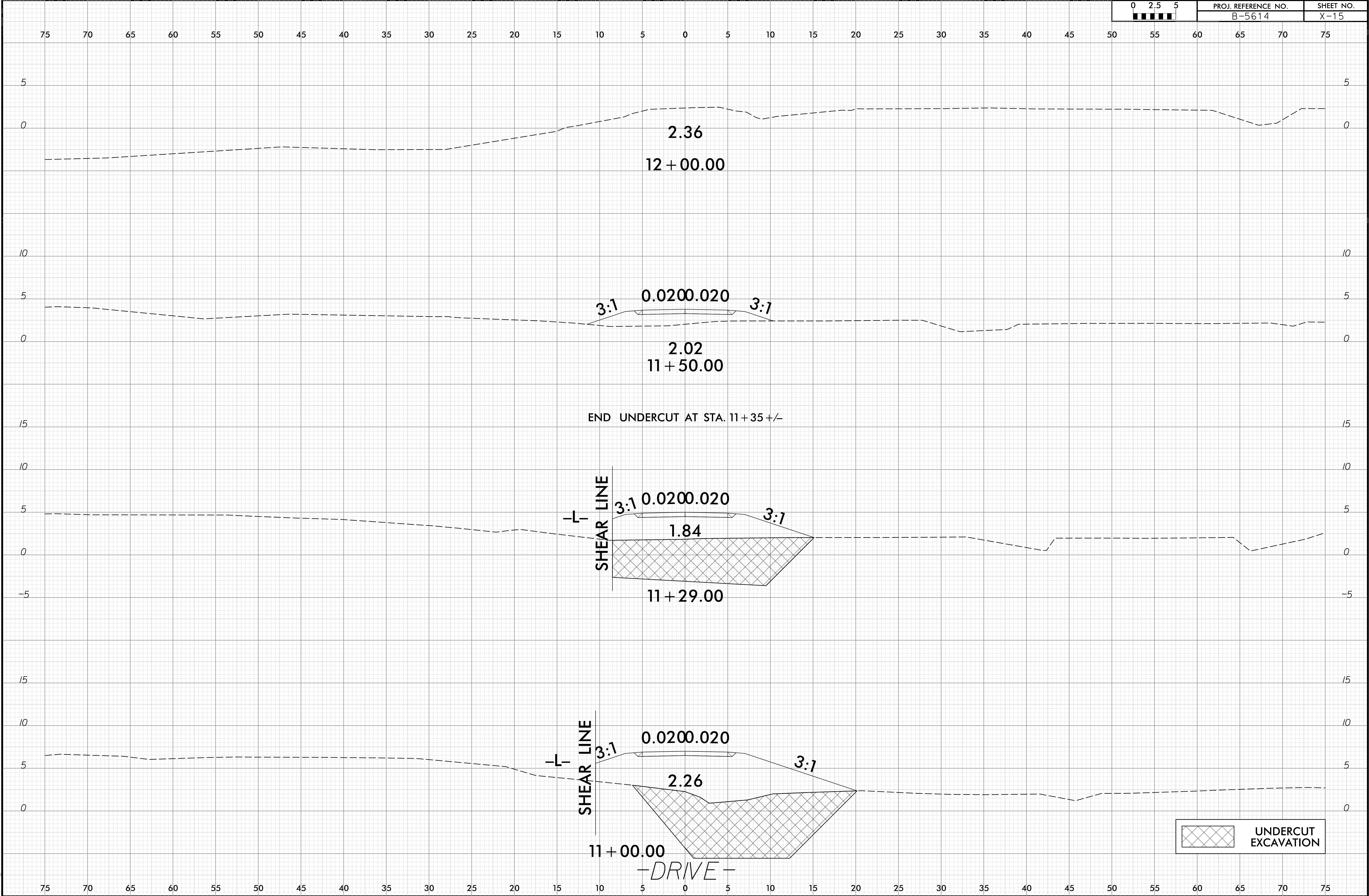


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6/23/16

10/11/2021
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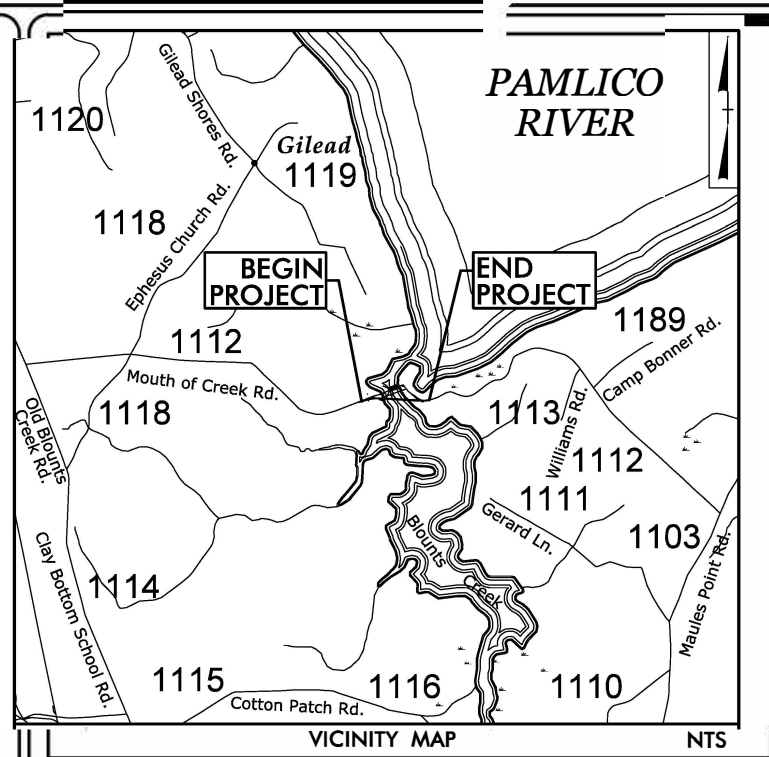


Modification for Brightspeed

Wetland and Stream Drawings

24/04/99
TIP PROJECT: B-5614
CONTRACT: _____

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tculpepper



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 |

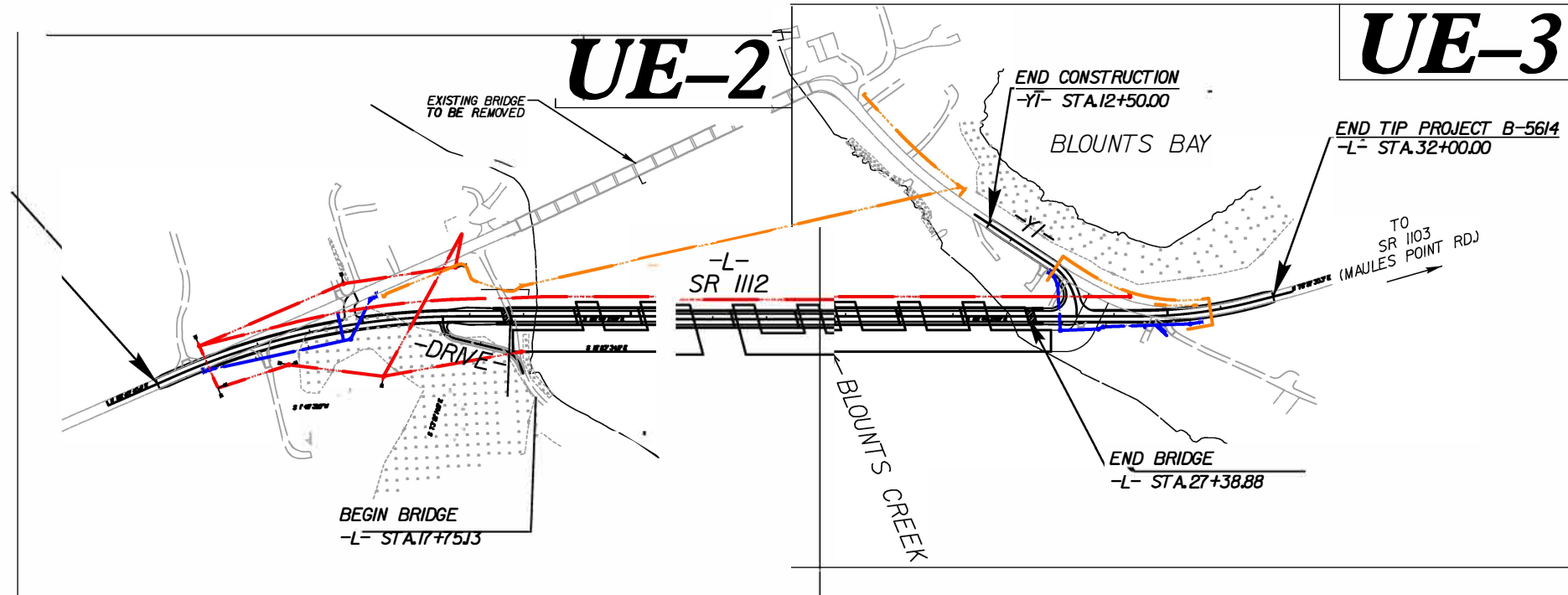
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 1 OF 11
Revised May 21, 2024



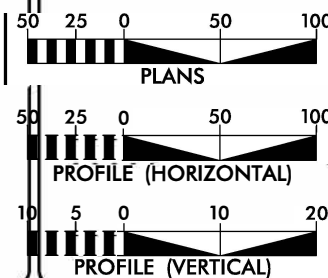
BEGIN TIP PROJECT B-5614
-L- STA.11+00.00

TO
SR 1114
(OLD BLOUNTS CREEK RD.)



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

GRAPHIC SCALES



INDEX OF SHEETS

| 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:



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



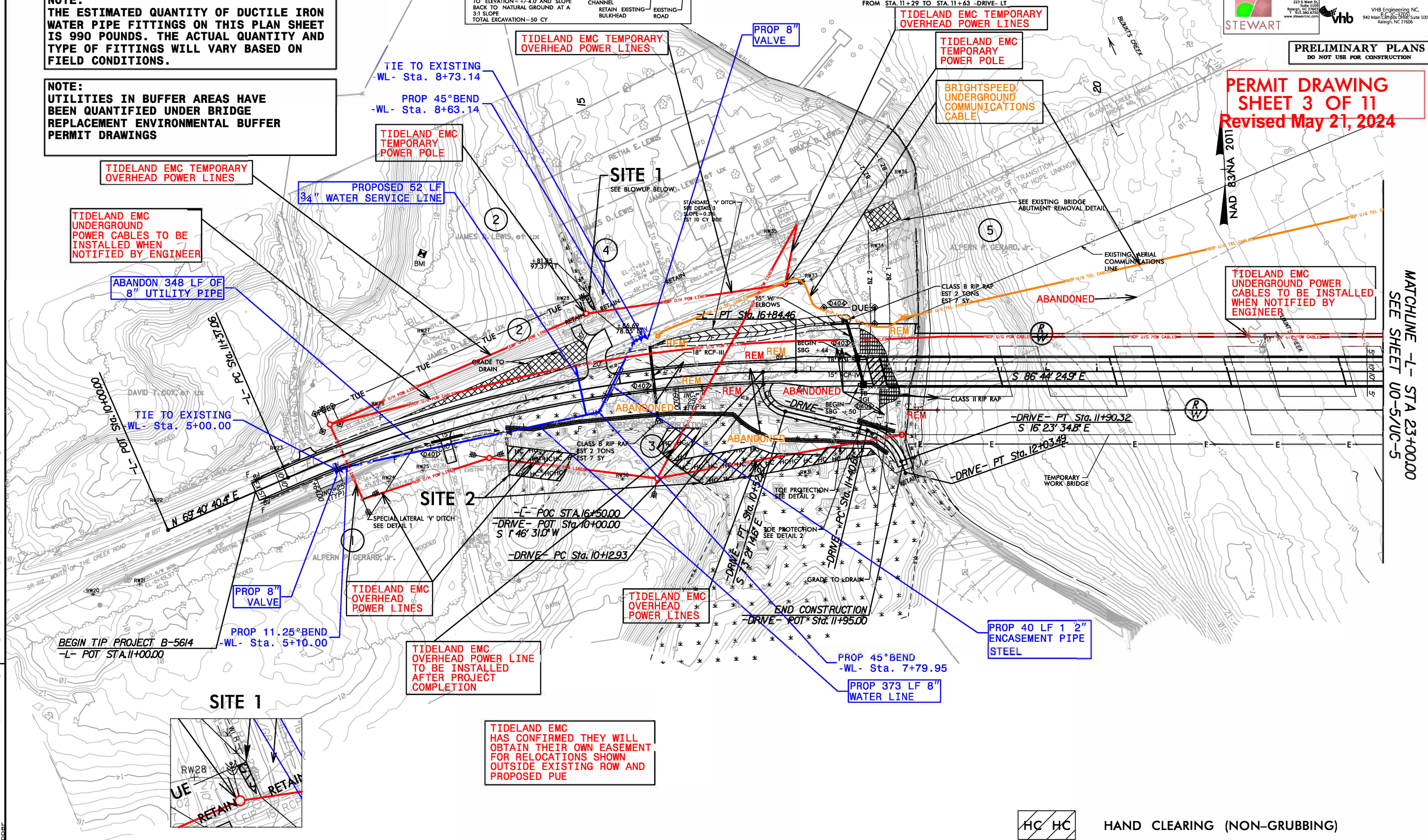
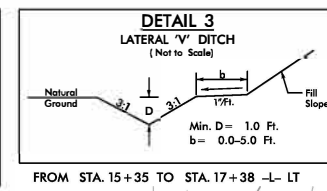
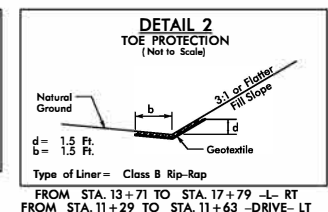
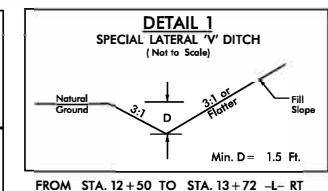
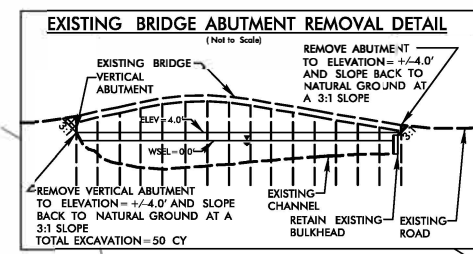
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 3 OF 11
Revised May 21, 2024

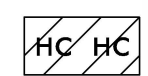
NOTE:
CONTRACTOR IS REQUIRED TO ENSURE ALL
BENDS UTILIZE JOINT RESTRAINTS.

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



HAND CLEARING (NON-GRUBBING)

UTILITIES BY OTHERS/UTILITY CONSTRUCTION

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



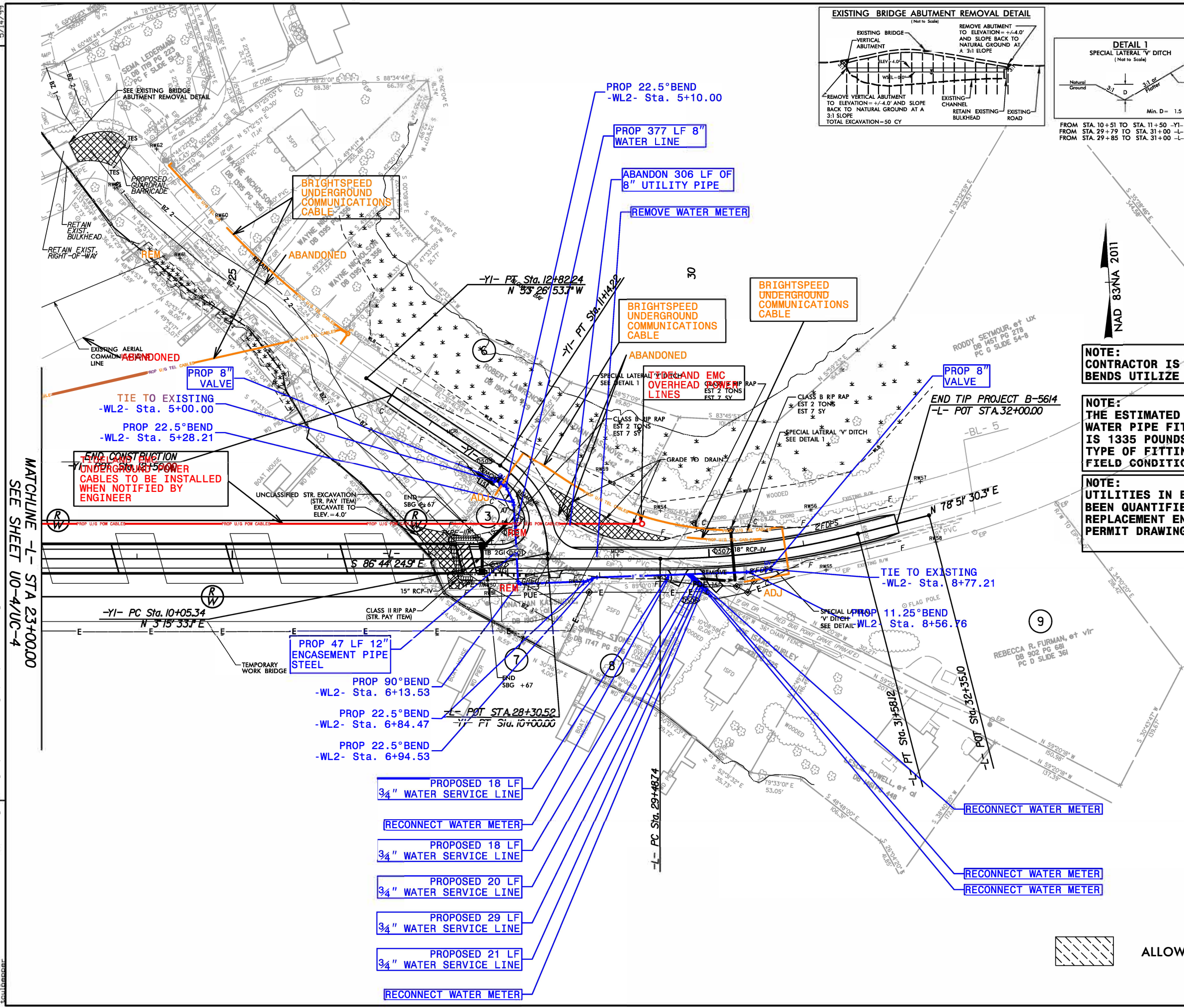
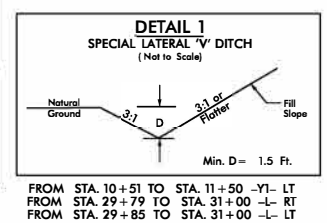
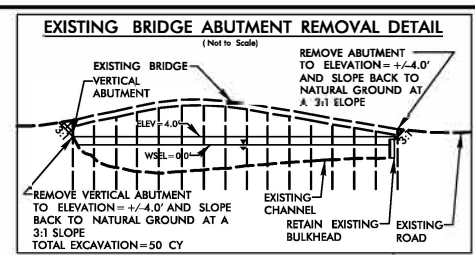
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 4 OF 11
Revised May 21, 2024

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

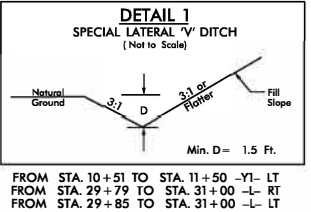
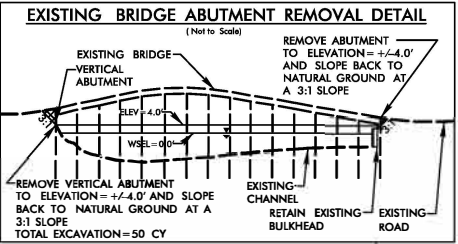
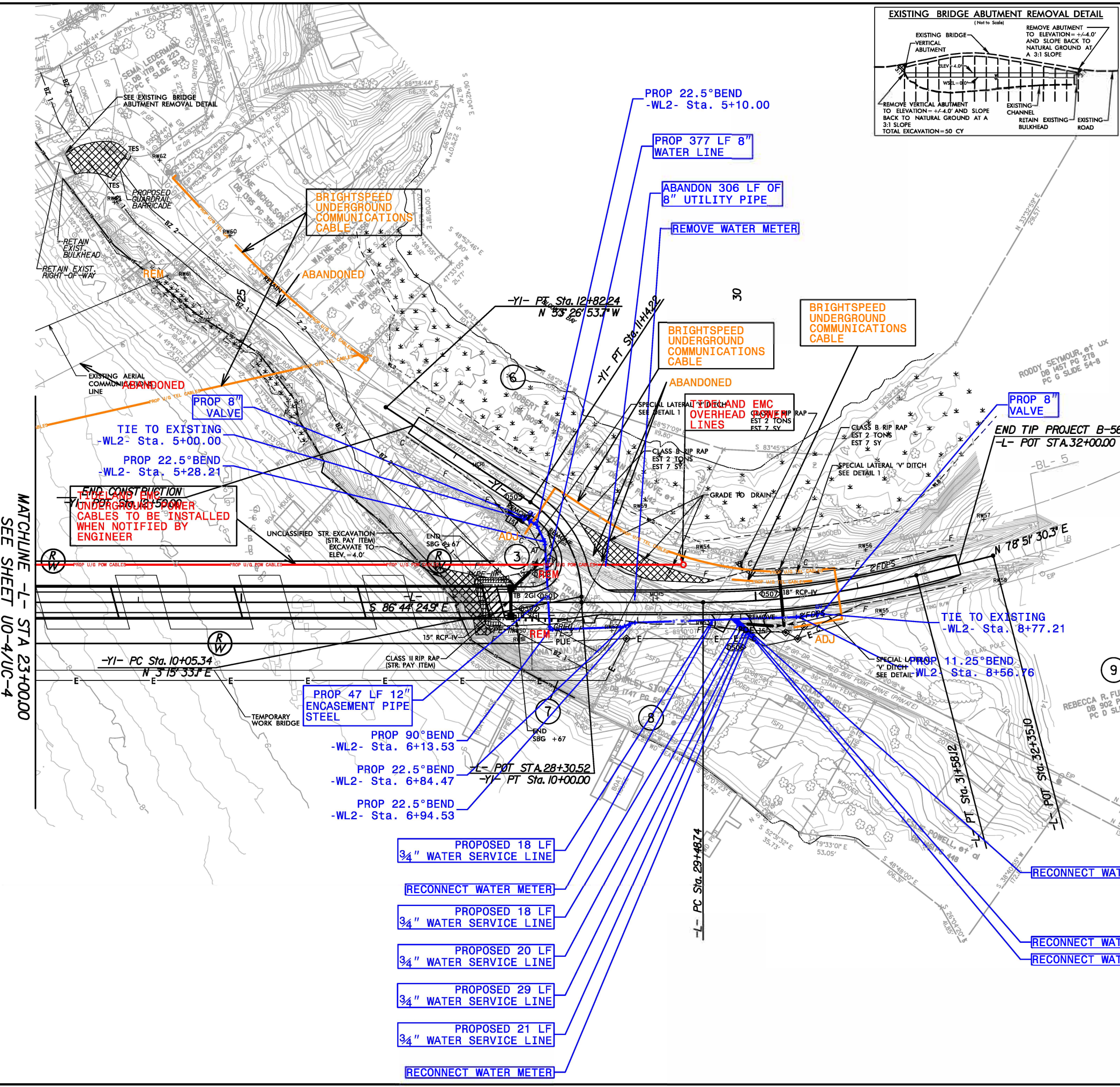
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
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IS 1335 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

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



ALLOWABLE IMPACTS ZONE 2

5/14/99
REVISED
MATCHLINE -L- STA 23+00.00
SEE SHEET UO-4/UC-4
149:54 AM
R:\Hydro\Utilities\PERMITS\Environmental\Drawings\Utility Impacts\B5614_Hyd.prm.power_PSH05.con.dgn
toulbepp



PROJECT REFERENCE NO. **B-5614** SHEET NO. **UE-5**
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

STEWART
Firm License No. C-0051
225 S. West St.
Raleigh, NC 27601
T 919.386.9750
www.stewartinc.com

vhb
VHB Engineering NC
P.C. 0003
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

PERMIT DRAWING
SHEET 5 OF 11
Revised May 21, 2024

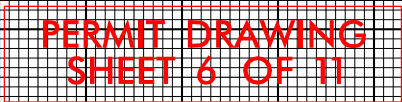
NOTE:
CONTRACTOR IS REQUIRED TO ENSURE ALL BENDS UTILIZE JOINT RESTRAINTS.

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

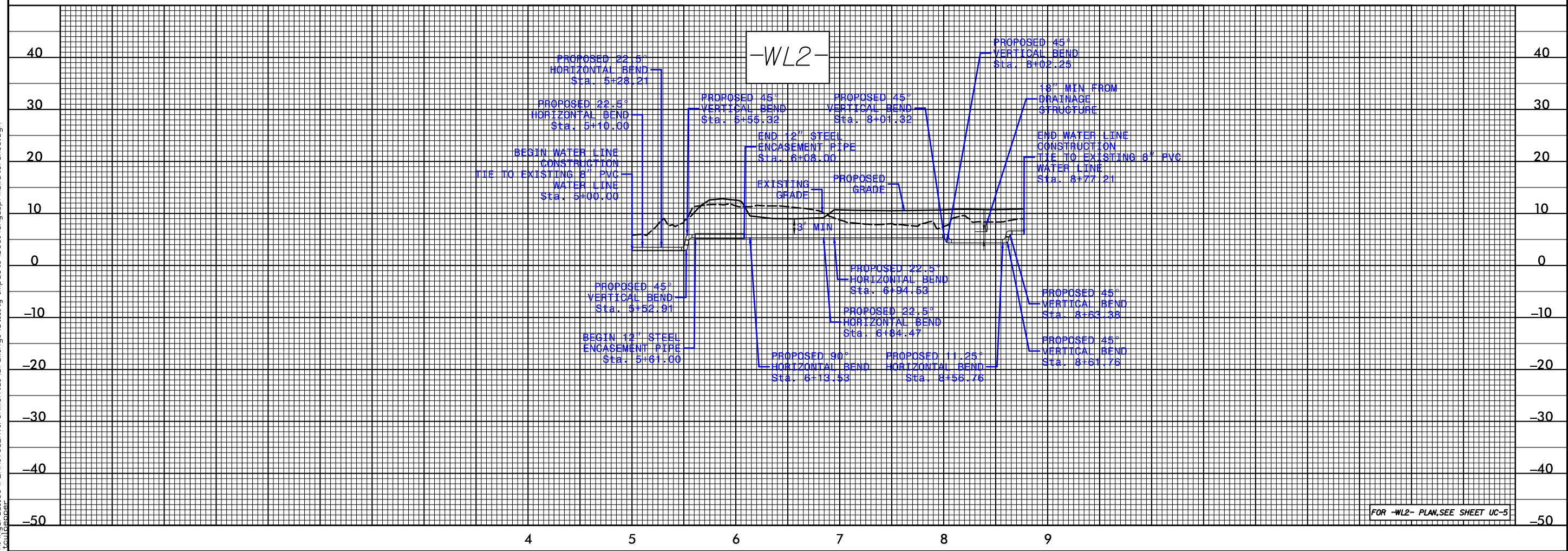
ALLOWABLE IMPACTS ZONE 2

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tculpeper

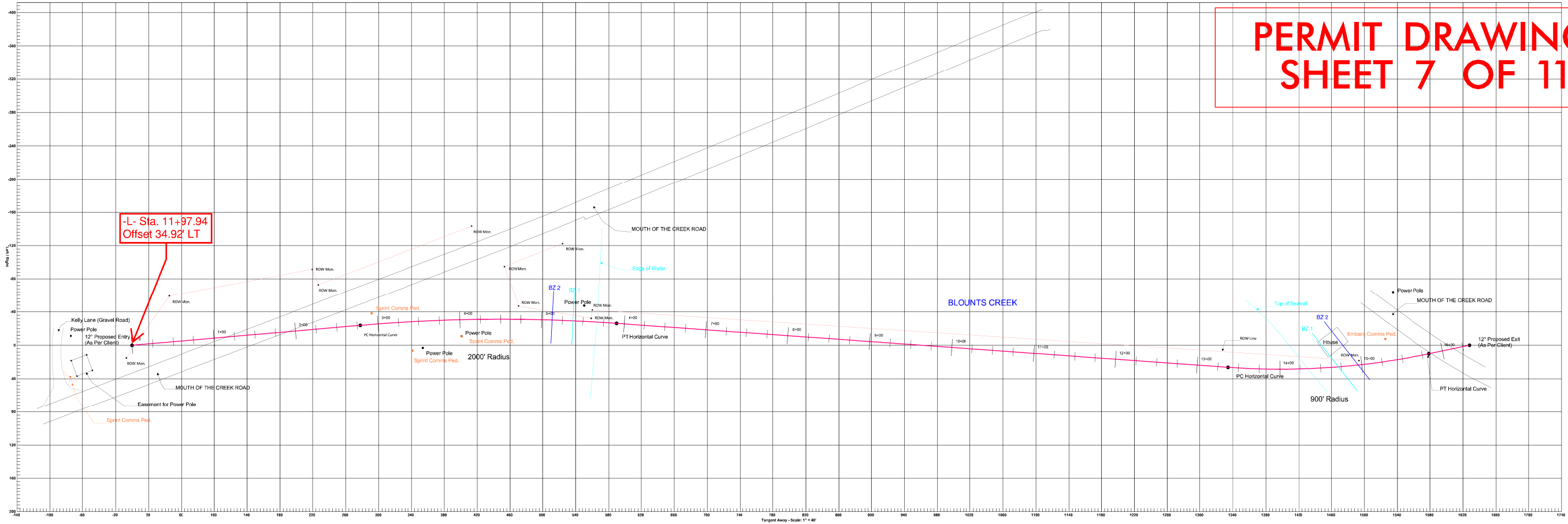


UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PLAN VIEW

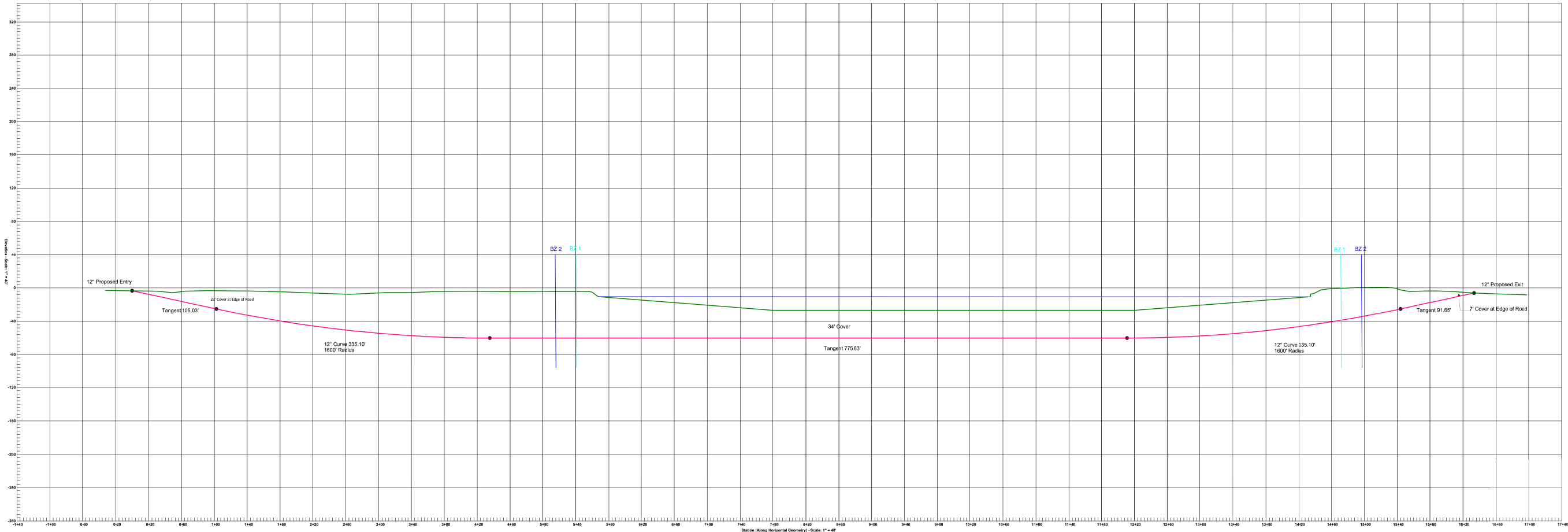


PERMIT DRAWING
SHEET 7 OF 11

UE-7

TIDELAND UNDERGROUND BORE DETAIL

PROFILE VIEW



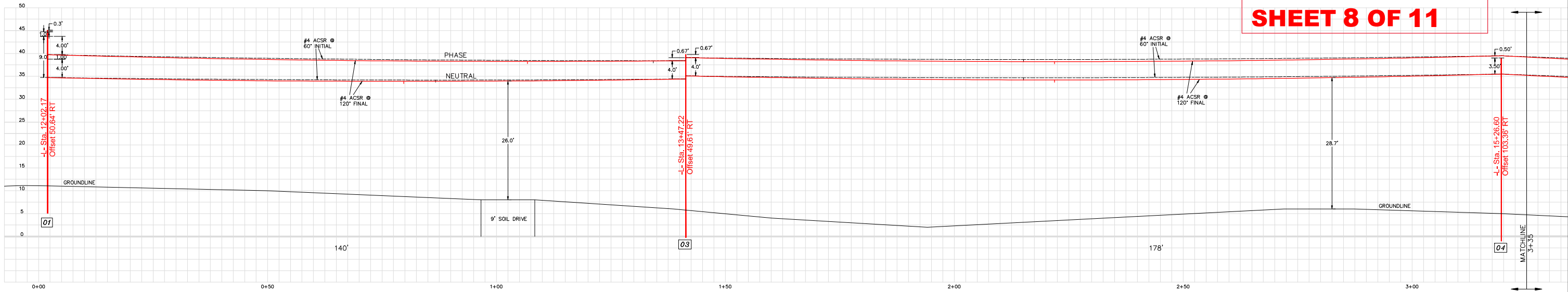
Buffer Zone locations
shown on the plans are
approximate and for
informational purposes
only.

Diagram illustrating a cross-section of a creek bed with a proposed trench. The diagram shows the creek bed profile (black line) and the proposed trench (red line). Key dimensions and labels include:

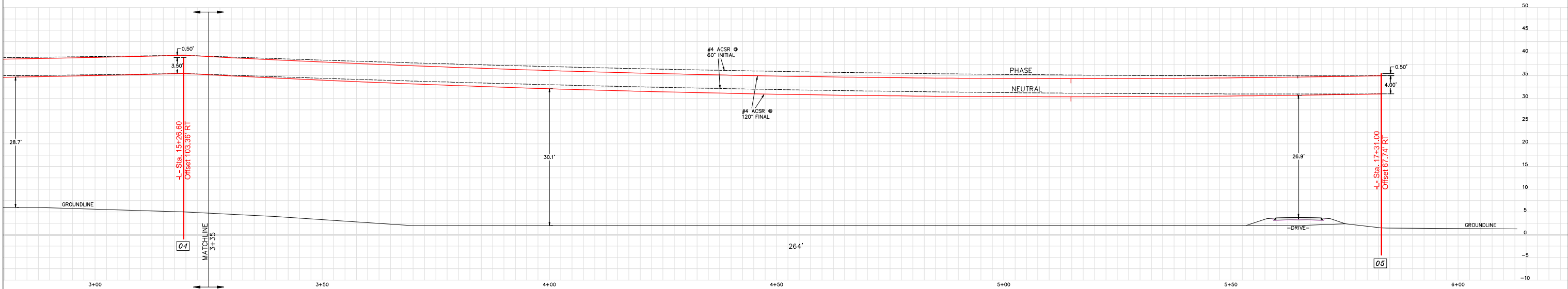
- Horizontal dimensions: 35', 724', 30', 24', and 18'.
- Vertical dimensions: 10' min below creek bed (depth of the trench).
- Labels: BORE PIT, NWS = 0.00', and AVG. = 10'.

BORE DETAIL
B-5614 BLOUNTS CREEK, NC

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.

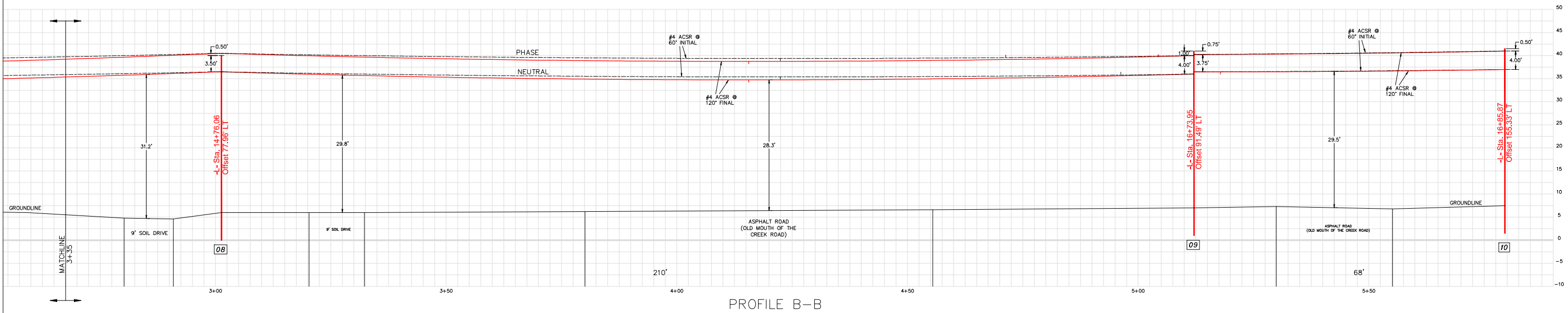
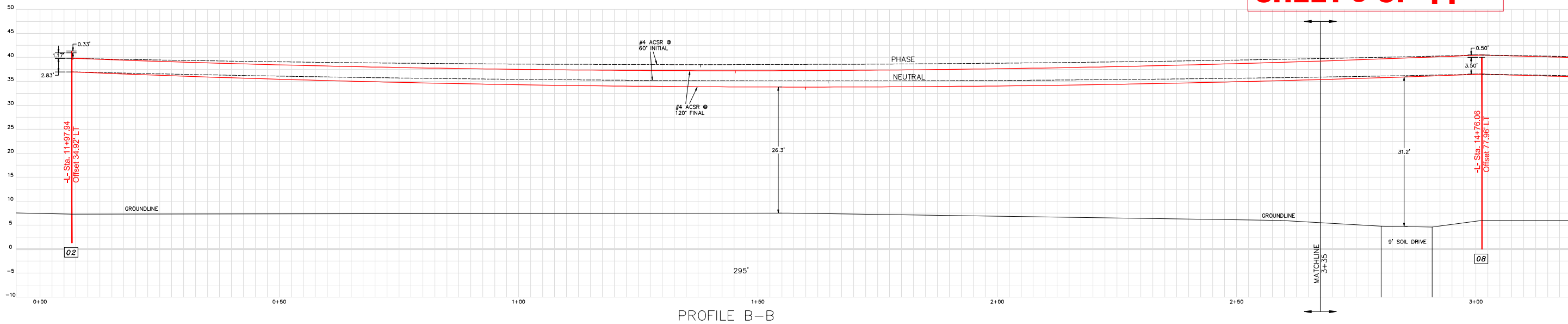
PRELIMINARY



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



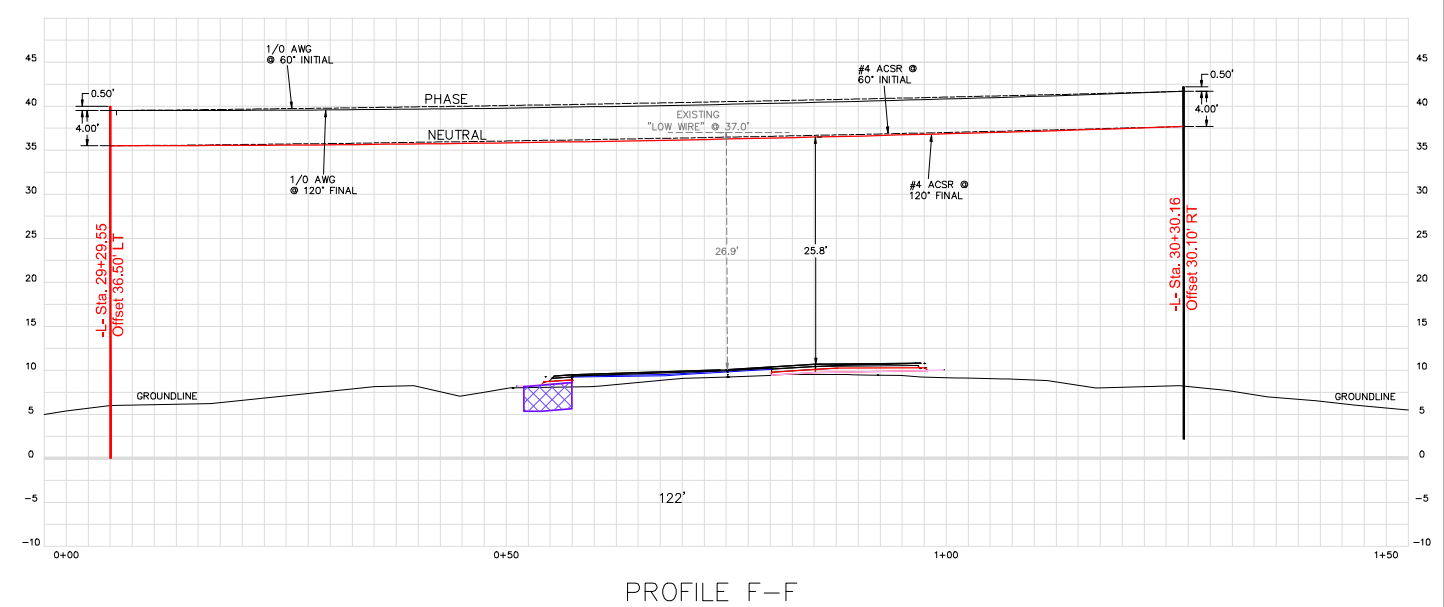
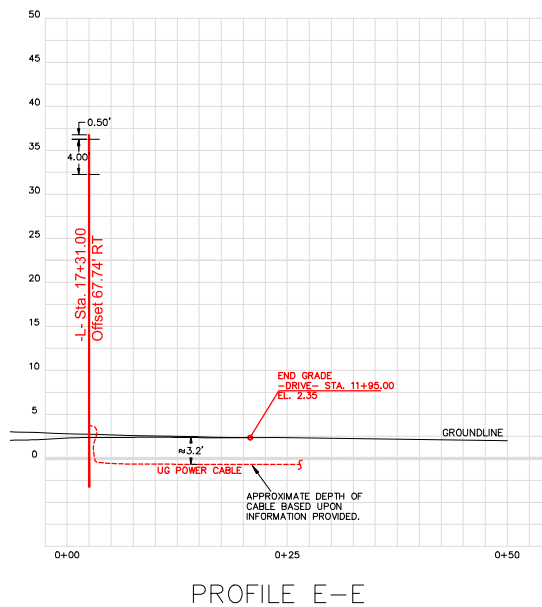
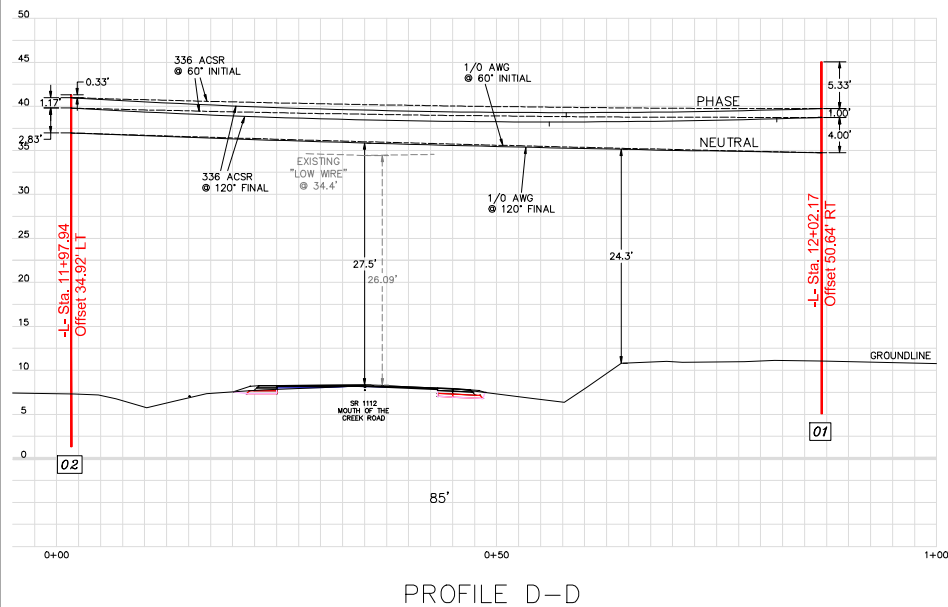
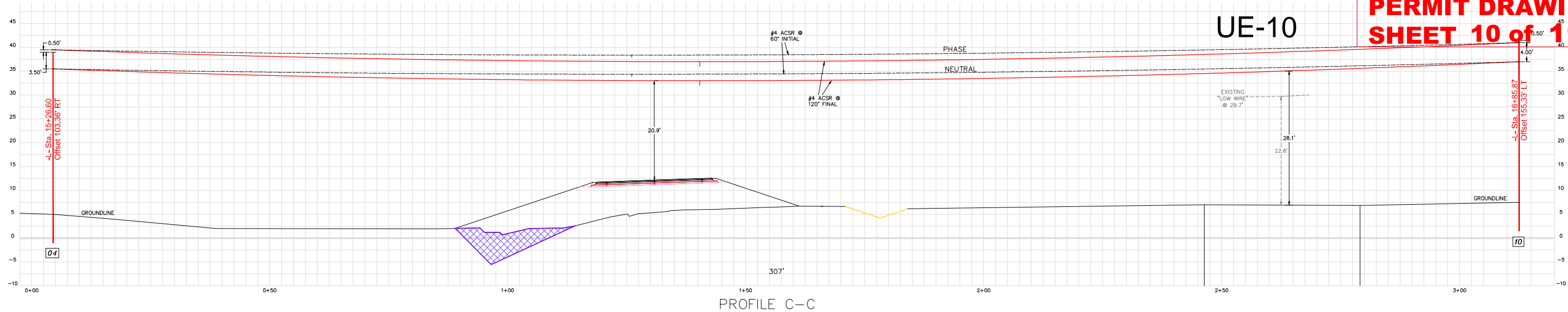
155 U.S. HWY. 70 WEST
N.C. CORP. C-1063

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: BLOUNTSCREEKPH | APPROVED BY: TBP | |
| DATE: 03/03/2022 | | SHEET NO. 4 OF 4 | |

| 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 | | | | | 0.11 | | | | | |
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| TOTALS* | | | | | | | 0.16 | | | 0 | 0 | 0 |

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
05/21/2024
BEAUFORT COUNTY
B-5614
45569.1.1

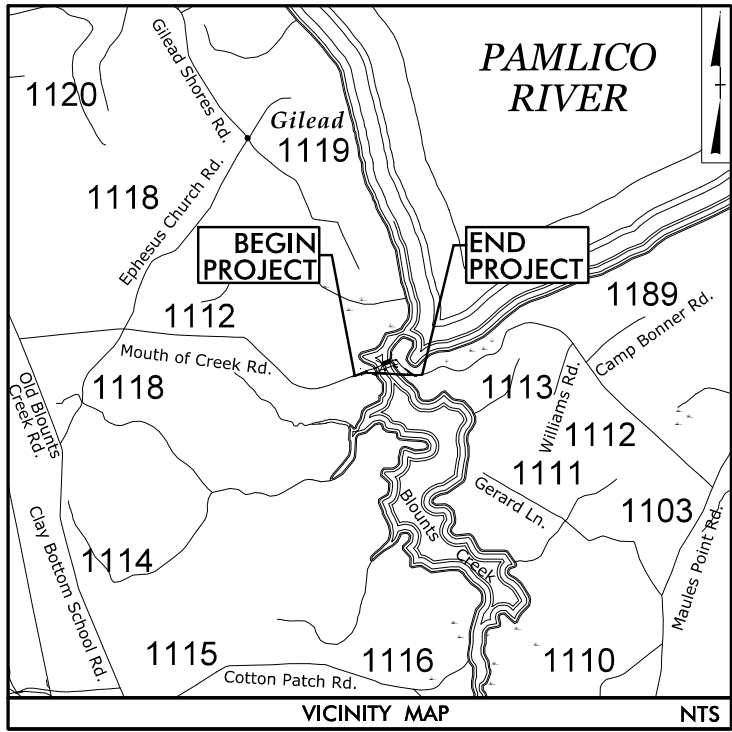
Modification for Brightspeed

Buffer Drawings

09/08/99
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tculpepper

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

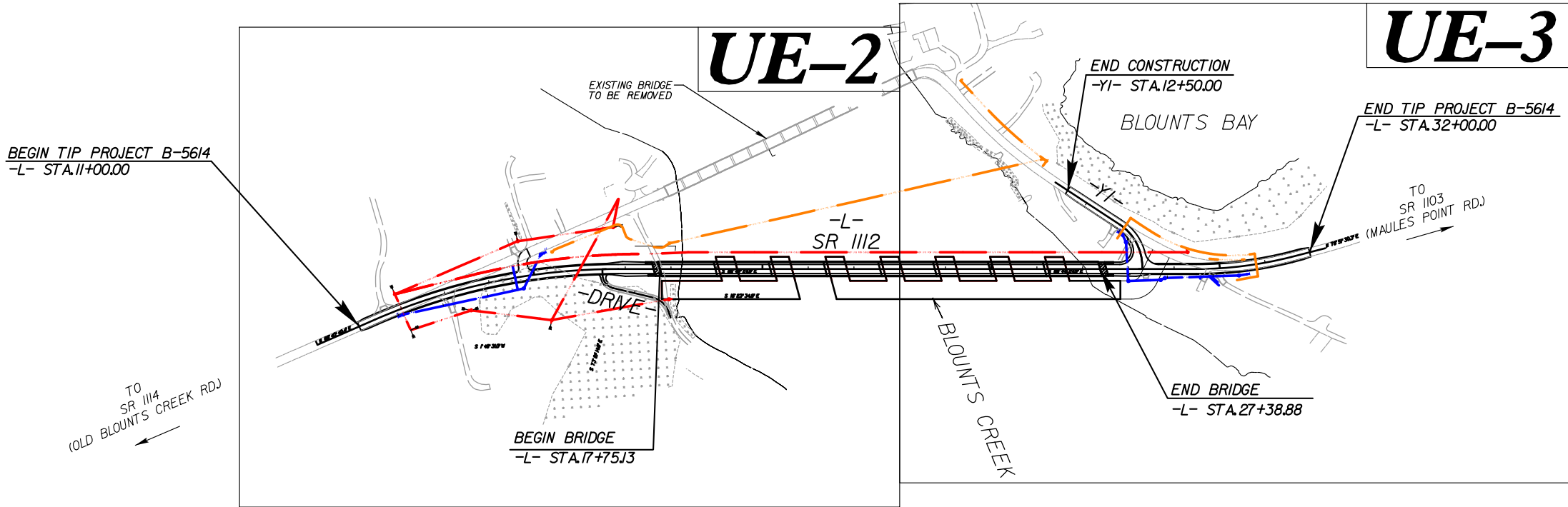
BUFFER IMPACTS PERMIT

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

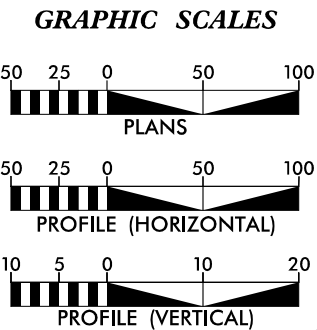
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

BUFFER DRAWING
SHEET 1 OF 5

NAD 83NA 2011



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

| | | | |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|  | <p>Firm License No. C-1051 223 S West St. Suite 1100 Raleigh, NC 27603 T 919.380.8750 www.stewartinc.com</p> |  | <p>VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606</p> |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|

**BUFFER DRAWING
SHEET 2 OF 5
Revised May 21, 2024**

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

TIDELAND EMC
UNDERGROUND
POWER CABLES TO BE
INSTALLED WHEN
NOTIFIED BY ENGINEER

TIE TO EXISTING
-WL- Sta. 5+00.00

PROP 11.25° BEND
-WL- Sta. 5+10.00

SITE 2

**TIDELAND EMC TEMPORARY
OVERHEAD POWER LINES**

PROP 8'
VALVE

**TIDELAND EMC TEMPORARY
OVERHEAD POWER LINES**

TIDELAND EMC
TEMPORARY
POWER POLE

**BRIGHTSPEED
UNDERGROUND
COMMUNICATIONS
CABLE**

TIDELAND EMC
UNDERGROUND POWER
CABLES TO BE INSTALLED
WHEN NOTIFIED BY
ENGINEER

PROPOSED 52 LF
WATER SERVICE LINE

PROP 45° BEND
-WL- Sta. 8+63.14

**TIDELAND E
TEMPORARY
POWER POLE**

TIDELAND EMC
HAS CONFIRMED THEY WILL
OBTAIN THEIR OWN EASEMENT
FOR RELOCATIONS SHOWN
OUTSIDE EXISTING ROW AND
PROPOSED PUE

ALLOWABLE IMPACTS ZONE 1

ALLOWABLE IMPACTS ZONE 2

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

E 114/00

REVISIONS

2:06:14 PM
C:\Program Files\PERMITS.Environmental\Drawings\utility_impacts\B5614_Hyd_prm_UE_buffer_PSH04.dgn

RIPARIAN BUFFER IMPACTS SUMMARY

[illegible]

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
05/21/2024
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 4 OF 5

WETLANDS IN BUFFER IMPACTS SUMMARY

| | | | WETLANDS IN BUFFERS | |
|----------|----------------------|-----------------------------|------------------------------|------------------------------|
| SITE NO. | STATION (FROM/TO) | Structure | ZONE 1 (ft ²) | ZONE 2 (ft ²) |
| | | | | |
| 2 | -DRIVE- 11+36/12+04 | PROP O/H POW & TEL CABLE | 0 | 112 |
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| | | | | |
| TOTAL: | | | 0 | 112 |

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
05/21/2024
BEAUFORT COUNTY
B-5614
45569.1.1
SHEET 5 OF 5