



Henderson County Government
Request for Proposals Rugby Middle School -
Streambank Stabilization Project

Date of Issue: January 13, 2023

Proposal Due Date: February 1, 2023, at 3:00PM EST

Direct all inquiries concerning this RFP to:

Doug Guffey

Purchasing Agent

Phone: 828-694-5023

Email: hcpurchasing@hendersoncountync.gov

BID PROPOSAL FORM

Pursuant to the General Statutes of North Carolina **informal bids**, subject to the conditions and specifications herein, are invited for furnishing the following services. Bids may be submitted email to hcpurchasing@hendersoncountync.gov or via mail to the Henderson County Finance Department, 113 N Main St, Hendersonville, NC 28792. Bids will be due on Wednesday, February 1, 2023, at 3:00PM EST

The undersigned, as bidder, hereby declares that this proposal is made without connection with any other person, company, or parties making a similar bid or proposal, and that the proposal is in all respects fair and in good faith, without collusion or fraud.

The bidder has carefully examined the annexed form of specifications and instructions to bidders and hereby declares that he will furnish the equipment and/or services called for in the manner prescribed in the specifications and instructions to bidders for the following price:

ITEM	DESCRIPTION	COST
1	Mobilization	
2	Grading/Excavation	
3	Erosion Control Materials – Including coir matting, straw matting, straw, stakes/staples	
4	Temporary & Permanent Seeding	
5	Silt Fence	
6	Safety Fence & Signage	
7	Vegetation Debris Removal/Mulching	
8	Excess Soil Removal	
	GRAND TOTAL FOR ALL GOODS AND/OR SERVICES. INCLUSIVE OF SHIPPING TO HENDERSON COUNTY, NORTH CAROLINA AND INSTALLTION	

**PLEASE NOTE BID PRICES AND SPECIFICATIONS SHALL BE FULLY ENFORCEABLE
FOR 120 DAYS AFTER THE BID DUE DATE UNLESS NOTED BELOW:**

Printed Name of Firm Representative: _____

Signature of Firm Representative: _____

Title: _____

Name of Firm Submitting Proposal: _____

Firm Address: _____

Telephone Number: _____

Email Address: _____

Bidders Checklist

- Be aware of the bid opening date and time as indicated on the first page of this proposal.
- All signatures must be by a company officer or agent who is authorized to enter into contracts and sign bid documents.
- Have you read and understood the “Terms and Conditions” and the “Instructions to Bidders” for submitting a bid?
- Have you read and do you completely understand all the specifications of this bid proposal?
- Have you submitted the requested number of copies of your proposal and included all the requested literature and specifications?
- If an addendum to the specifications was issued, has it been signed and returned with this bid proposal?
- Have you enclosed statements explaining any exceptions made to the specifications?
- Have you included executed copies of the attachments?
- Have you included a copy of your Certificate of Insurance?
- Have you included a copy of the appropriate licensure?

Section 1: Purpose

Henderson County Soil and Water is soliciting services of highly qualified companies to provide streambank grading and stabilization work on Mill Pond Creek at Rugby Middle School.

Section 2: Bid Schedule

Listed below are the dates and times by which stated actions must be taken or completed. The County may determine, in its sole discretion, that it is necessary to change any of these dates and times. Should changes be required, proper notice will be provided to potential bidders. All listed times are Eastern standard times.

Action	Time	Date
Bid issued	5:00 PM	January 13, 2023
Mandatory Pre-Bid	3:30 PM	January 20, 2023
Deadline for Questions	5:00 PM	January 20, 2023
County Responses	5:00 PM	January 24, 2023
Bids Due	3:00 PM	February 1, 2023

Section 3: Mandatory Pre-bid

A **MANDATORY PRE-BID MEETING** will be held at the Rugby Middle School, 3345 Haywood Rd, Hendersonville, NC 28791 on Friday, January 20, 2023, beginning at 3:30PMEST. Meet near the bus parking area. If your company does not attend the pre-bid meeting or is not present for the duration of the meeting your bid will not be considered as responsive.

Section 4: Bid Contact

Any and all questions, concerns and requests for additional information shall be directed to the Finance Department to the attention of the Purchasing Agent.

Doug Guffey
hcpurchasing@hendersoncountync.gov

Section 5: Bidder Questions

The County is not liable for interpretations/misinterpretations or other errors, or omissions made by the Bidder in responding to this bid. The Bidder shall examine this bid to determine if the County’s requirements and terms and conditions are clearly stated. If, after examination of the various requirements and terms and conditions of this bid, the Bidder believes there are any requirements or terms and conditions which remain unclear or which restrict competition, the Bidder may request, in writing, that the County clarify the requirement(s) and terms(s) and condition(s) specified by the Bidder. The Bidder must provide the Section(s), Subsection(s), Paragraph(s), and page number(s) that identify the requirements or conditions questioned by the Bidder.

Requests for clarification, technical questions, and approval of alternate products to this bid must be received by the County no later than the date shown above in Section 2, entitled “Bid Schedule”, under Deadline for Questions. The Bidders’ failure to request clarification and submit questions by the date in the bid schedule above shall be considered to constitute the Bidders’ acceptance of all County requirements and terms and conditions. The County shall issue addenda reflecting questions and answers to this bid, if any, and shall be posted to the County’s website at <https://www.hendersoncountync.gov/rfps>.

Section 6: Objections to the Specifications

It is not the intent of the bid specifications to exclude or limit competition or favor any supplier. If there is an objection to any of the specifications or requirements listed herein, the bidder must notify Doug Guffey, Purchasing Agent, in writing, stating and listing the specifications and objections, no later than the date shown above in Section 2, entitled "Bid Schedule", under Deadline for Questions. If a pre-bid meeting has been scheduled, any objections must be presented in writing at that time. The objections stated must pertain both to form and substance of the bid document. Failure to object in accordance with the above procedure shall constitute a waiver on the part of the bidder to protest the solicitation. All concerns, questions, clarifications, or other correspondence must be directed only to the Purchasing Agent. Information obtained from other sources will not be considered in the evaluation and award of this bid.

Section 7: How to Prepare Bid Proposals

Bidders are encouraged to carefully review all provisions and attachments of this document prior to completion. Each bid constitutes an offer and may not be withdrawn except as provided herein. Also, prices are to remain firm for the period stated herein.

- a) **PROPOSAL FORM:** Submit all prices and offers on the **BID PROPOSAL FORM(s)** provided herein. All bid proposals must be submitted and signed by the supplier or their authorized representative with all erasures or corrections initialed and dated by the authorized representative of the proposal.
- b) **Addendum(s):** If applicable, bidders shall include signed addendum(s) with their bid submittal acknowledging the modifications made to the bid document.
- c) **SIGNATURE: All bids must be signed by an authorized official of the company on the Bidders Signature Page.** A bid may be rejected if it shows omissions, alterations of form, additions not called for, conditional bid, or any irregularities.
- d) **TAXES: Do not include taxes in your bid prices.** Taxes must be itemized and added to invoices separately when invoicing the County. The County is required to pay sales tax. The County is exempt from Federal Excise Tax and has a Federal Tax number.

Section 8: How to Submit Bid Proposals

- a. **SUBMIT BIDS ON THE BID PROPOSAL FORM PROVIDED HEREIN.**
- b. Bids may be submitted via email to hcpurchasing@hendersoncountync.gov.
- c. Bids may be mailed or delivered as follows

Mailing & Delivery Address:

Henderson County: RFP for Rugby Middle School - Streambank Stabilization
Finance Department
113 N Main St
Hendersonville, NC 28792

- d. Please note bids not received by the time and date specified on the Bid Proposal Form will not be opened or considered.

- e. Bidders shall provide any available product literature and manufacturer’s specifications at the request of Henderson County.

Section 9: Bid Opening

- a. All bids will be opened at the time and place shown on the enclosed Bid Proposal Form. **LATE BIDS WILL NOT BE OPENED OR ACCEPTED.**
- b. Bids will be examined by the Purchasing Agent and the using department officials promptly after the opening and an award made as early as possible.
- c. Bidders may request and receive copies of the bid document and/or bid tabulation after the award of the project.

Section 10: Award of Bid

- a. **Standard of Bid Award Acceptance:**
The County reserves the right to reject any and/or all bids received as allowed by law, or to select the bid which, in our opinion, is in the best overall interest of the County. The award shall be made to the lowest, responsive, responsible bidder, or bidders, taking into consideration quality, performance and the time specified in the bid for the performance of the contract.
- b. **Bid Prices:**
All items and products proposed in response to this Bid are to be new, in un-used condition unless otherwise noted in the minimum specifications. All prices proposed in response to this Bid are to include all transport, freight, fuel surcharges and other fees if applicable and be delivered **FOB destination, freight prepaid and allowed** to the construction location unless otherwise specified in the specifications section. All items are to be packaged, and shipped or delivered safely in a protective carton, fully assembled and serviced, ready for use and operation where applicable or otherwise described within the specifications. All supplies, equipment, and apparatus must meet all Federal, State, and Local safety regulations, requirements, and guidelines, such as OSHA, EPA, US DOT, NC-DOT, NFPA, UL, etc., if so regulated.

Section 11: Order of Precedence

In cases of conflict between sections and provisions within the Bid document, the Order of Precedence will be 1) the Special Conditions section specific to the Bid (if present); 2) the Minimum Specifications section specific to the Bid, 3) Henderson County Terms and Conditions; and 4) the Instructions to Bidders section of the Bid document.

Section 12: Errors in Bids & Bid Withdrawal

Bidders or their authorized representatives are expected to understand the conditions, requirements, and specifications before submitting bids. Failure to do so will be at the bidders’ own risk. In case of an error in the extension of prices on the bid, the unit price shall govern.

Section 13: Bid Tabulation

Pursuant to North Carolina General Statute 143-131(a), bidders may request a bid tabulation from the Purchasing Agent, after the contract has been awarded.

Section 14: Scope of Work

The goal of this project is to restore approximately 500 linear feet of streambank on Mill Pond Creek. This project will involve the removal of existing vegetation and stream debris, excavating banks to create a floodplain bench and sloping banks. All areas will be seeded and covered with erosion control material for protect as defined. Installation of livestakes and other plants is not part of this bid. Silt fence will be installed around any stockpiles. Removed vegetation shall be disposed of at local landfill or mulched and left on-site for school use. A portion of the excavated soil will be placed on-site within the floodplain. The remaining soil will need to be placed outside the floodplain or taken off-site. Design drawings included (Attachment I).

Section 15: Criteria Used to Determine Quality and Performance

The following criteria shall be utilized to determine the bidder's ability to perform the construction services described herein. Please provide the following information:

- I. Bidder Experience & Capability. Bidder shall provide information on its experience and qualifications, which enable it to provide the services as described herein, including, but not limited to the following:
 1. Brief history of the company
 2. Timeline of incorporation, ownership, parent company, partners and suppliers
 3. Experience performing the services requested in this RFP
 4. Financial viability of vendor
 5. Any other information regarding the vendor's experience, which will assist Soil and Water in evaluating the proposal and making an ultimate decision.

- II. References. Bidders must document and provide references for successful completion of at least two (2) streambank stabilization projects with the following project components:
 1. Accurate grading of streambanks and floodplains on small streams.
 2. Accurate installation of erosion control materials on floodplain and streambank.
 3. Successful compliance with environmental permit requirements imposed by US Army Corps of Engineers, NC Division of Water Resources, and Henderson County Floodplain Management. Specific environmental requirements will include erosion and sedimentation control measures, stormwater management, water quality protection, waste management, and ground cover establishment.

Please provide:

1. Entity name.
2. Contact name(s).
3. Email address.
4. Telephone number.
5. Brief description of the work performed, including products provided and date of installation.

The County may or may not contact the references provided. To determine the vendor's past performance, the County may ask any questions it deems are in its best interests.

Section 16: Project Timeline

Construction is planned to occur during the school's Spring Break in March 2023. Staging may begin March 10th, 2023, with construction starting March 11th, 2023 or shortly thereafter. The goal is to complete work by March 19, 2023. Adjustments to schedule will be made if weather prevents completion of the work. The project shall be completed by **June 15, 2023**.

Note: Due to spring break, no bathroom facilities will be available. It is the responsibility of the bidder to provide arrangements for access to bathrooms, either on-site or off-site.

Section 17: Licensure

Bidder shall provide a copy of their general contractor licensure. If not provided the bid will be considered nonresponsive.

Section 18: Minority and Disadvantaged Business

Pursuant to General Statutes of North Carolina Sections 143-128 and 143-131, the County encourages and provides equal opportunity for Certified Minority and Women- Owned Business Enterprise (MWBE) businesses to participate in all aspects of the County's contracting and procurement programs.

For Disadvantaged Business Enterprise requirements, see Minority Business Participation Guidelines posted under Doing Business with Henderson County at

https://www.hendersoncountync.gov/sites/default/files/fileattachments/henderson_county/page/42611/00092588.pdf

Section 19: Contracting

Bidder shall include a proposed contract signed by the bidder and ready for county signature. The contract shall include at minimum the following language:

- i. Section 20 Grant Terms and Conditions
- ii. Section 21 County Terms and Conditions
- iii. Section 22 Certificate of Insurance

Section 20: Grant Terms & Conditions

Any proposal submitted to Henderson County shall be deemed to include all the Grant Terms and Conditions as follows:

- I. **Compliance with Laws:** The bidder shall comply with all laws, ordinances, codes, rules, regulations, and licensing requirements that are applicable to the conduct of its business, including those of federal, State, and local agencies having jurisdiction and/or authority.
- II. **Equal Employment Opportunity:** The bidder shall take affirmative action in complying with all federal and State statutes and all applicable requirements concerning fair employment of people with disabilities and concerning the treatment of all employees without regard to discrimination by reason of race, color, religion, sex, national origin or disability. For additional information see Title VI of the Civil Rights Act of 1964 (42 U.S.C., 2000d, 2000e- 16}, Title XI of the Education amendments of 1972, as amended (20 U.S.C. 1681-1683 and 1685-1686), and section 504 of the Rehabilitation Act of 1973 as amended (29 U.S.C. 794).

- III. **Executive Order 24:** In accordance with Executive Order 24, issued by Governor Perdue, and N.C.G.S. § 133-32, a vendor or contractor (i.e. architect, bidder, contractor, construction manager, design professional, engineer, landlord, offerer, seller, subcontractor, supplier, vendor, or grantee), is prohibited from making gifts or giving favors to any employee of the Agency of Agriculture and Consumer Services. This prohibition covers those vendors, contractors, and/or grantees who:
- (a) have a Contract with a governmental Agency; or
 - (b) have performed under such a Contract within the past year; or
 - (c) anticipate bidding on such a Contract in the future.

For additional information regarding the specific requirements and exemptions, vendors, contractors, and/or grantees are encouraged to review Executive Order 24 and N.C.G.S. § 133-32.

- IV. **Access to Persons and Records:** The State Auditor and the County's internal auditors shall have access to persons and records as a result of all Contracts or grants entered into by State agencies or political subdivisions in accordance with General Statute 147-64.7 and Session Law 2010-194, Section 21 (i.e., the State Auditors and internal auditors may audit the records of the contractor during the term of the Contract to verify accounts and data affecting fees or performance).
- V. **Amendment:** This Contract may not be amended orally or by performance. Any amendment must be made in written form and executed by duly authorized representatives of the Agency and the County.
- VI. **Advertising:** The bidder shall not use the award of this Contract as a part of any news release or commercial advertising.

Section 21: County Terms and Conditions

Any proposal submitted to Henderson County shall be deemed to include all the Terms and Conditions shown in the document found online at

https://www.hendersoncountync.gov/sites/default/files/fileattachments/henderson_county/page/42611/purchase_order_terms_and_conditions_rev_03-26-2019.pdf

These Terms and Conditions, which refer to a "purchase order", shall be deemed to be included in any agreement entered as a result of this RFP.

Any attempt by a proposed contracting party under the RFP to exclude any of these Terms and Conditions shall cause any Proposal made in response to this RFP to be deemed to be non-responsive (unless Henderson County has notified the firm that the funding source for the goods or work sought under this RFP is not federal funds, in which case those provisions under number 15 of the Terms and Conditions (and all subparts thereunder) may be excluded from a Proposal.

Section 22: Insurance Requirements

The Bidder shall provide an Insurance Certificate naming Henderson County as **additionally insured** per the attached certificate of insurance. Should different insurance limits be established between the vendor and the County, the Certificate of Insurance with Henderson County named as additional insured shall be contained herein.

Required Coverage	Minimum Insurance Limits
Workers' Compensation	Statutory/Employers Liability: \$1M/\$1M/\$1M
General Liability	\$1M per occurrence/\$1M aggregate - Per Project basis
Automobile	\$1M Combined Single Limit
Excess Liability	\$2M per occurrence
Builder's Risk	Amount of contract for above ground construction

Section 23: Funding Source

This RFP is funded with **State Funds**. 2 CFR Part 200 Federal Uniform Administrative Requirements, Cost Principles, and Audit are **NOT** applicable.

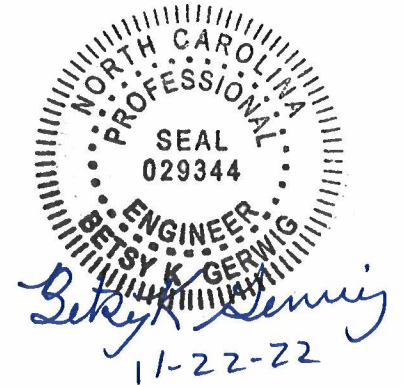
Section 24: Attachments

Attachment I: Design Drawings

Attachment II: Vendor Information Form

RUGBY MIDDLE SCHOOL

UPPER MILL POND CREEK RESTORATION

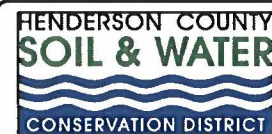


DESIGN PACKAGE

PAGE	DESCRIPTION
1	COVER
2	EXISTING
3	PLANNED TOPO
4	DESIGN
5	CROSS SECTIONS
6	EROSION CONTROL
7	PLANTINGS
8	STABILIZATION
9	SILT FENCE

*Additional information on recommended plants will be provided.

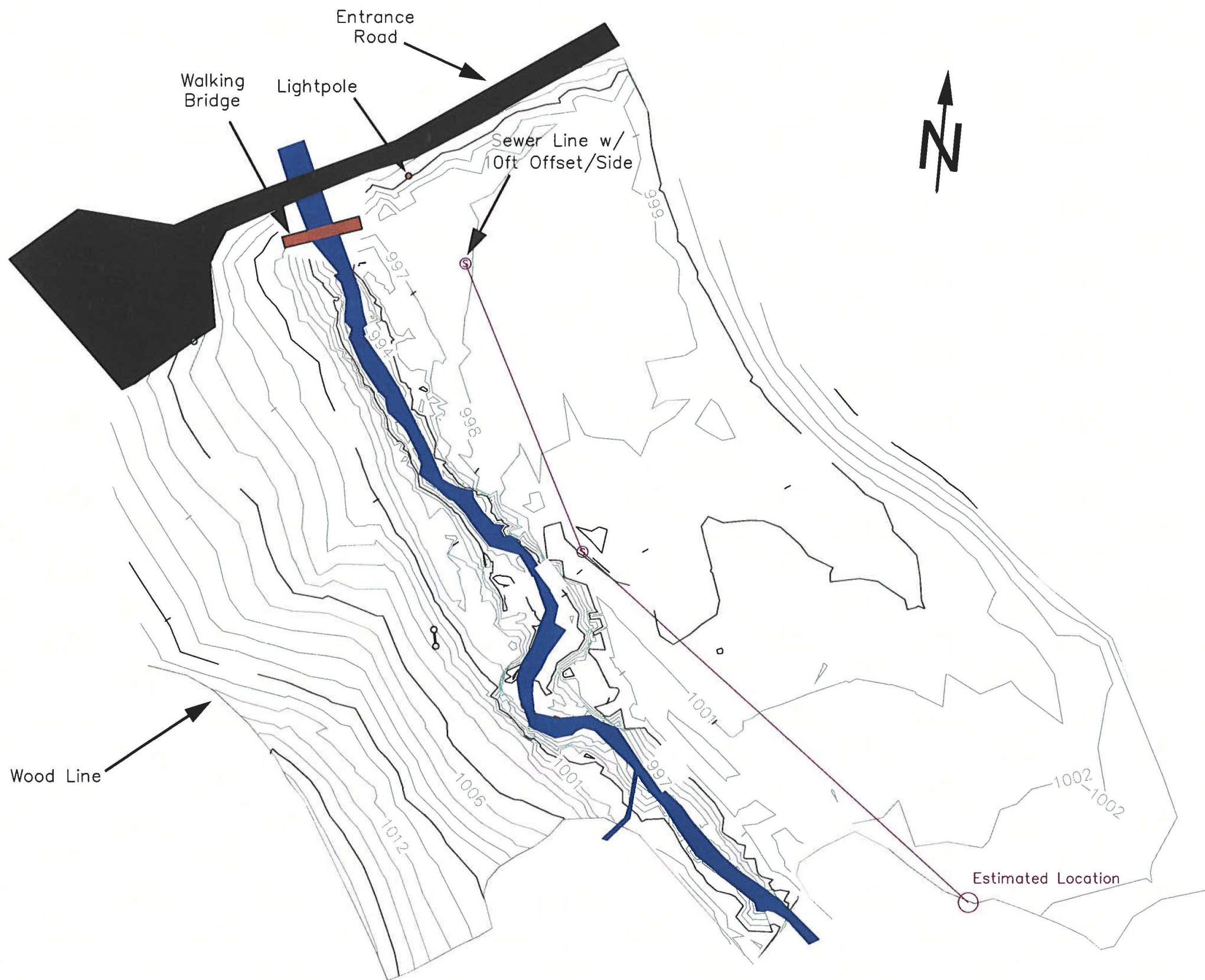
35.357821, -82.512278
 HENDERSONVILLE, NC
 HENDERSON COUNTY



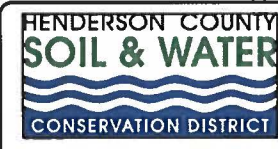
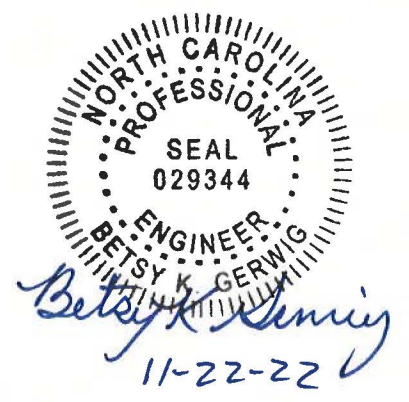
HENDERSON COUNTY
 SOIL AND WATER
 CONSERVATION DISTRICT
 61 TRIPLE SPRINGS ROAD, HENDERSONVILLE, NC 28792
 (828) 697-4949

RUGBY MIDDLE SCHOOL
 MILL POND CREEK RESTORATION – UPPER SECTION
 HENDERSON COUNTY
 35.357821, -82.512278

PROJECT #: MRP-2021-105	SCALE: 1 inch = 20 feet
DRAWN BY: Betsy K Gerwig	DATE: November 21, 2022
CHECKED BY:	DATE:
SHEET: COVER	FILENAME: Rugby-Stream_6-2022rec_JBedite2.dwg



EXISTING
Elevation Intervals
 — 5 ft
 - - - 1 ft
 Elevation Assumed.



HENDERSON COUNTY
 SOIL AND WATER
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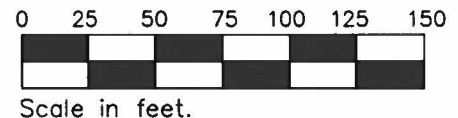
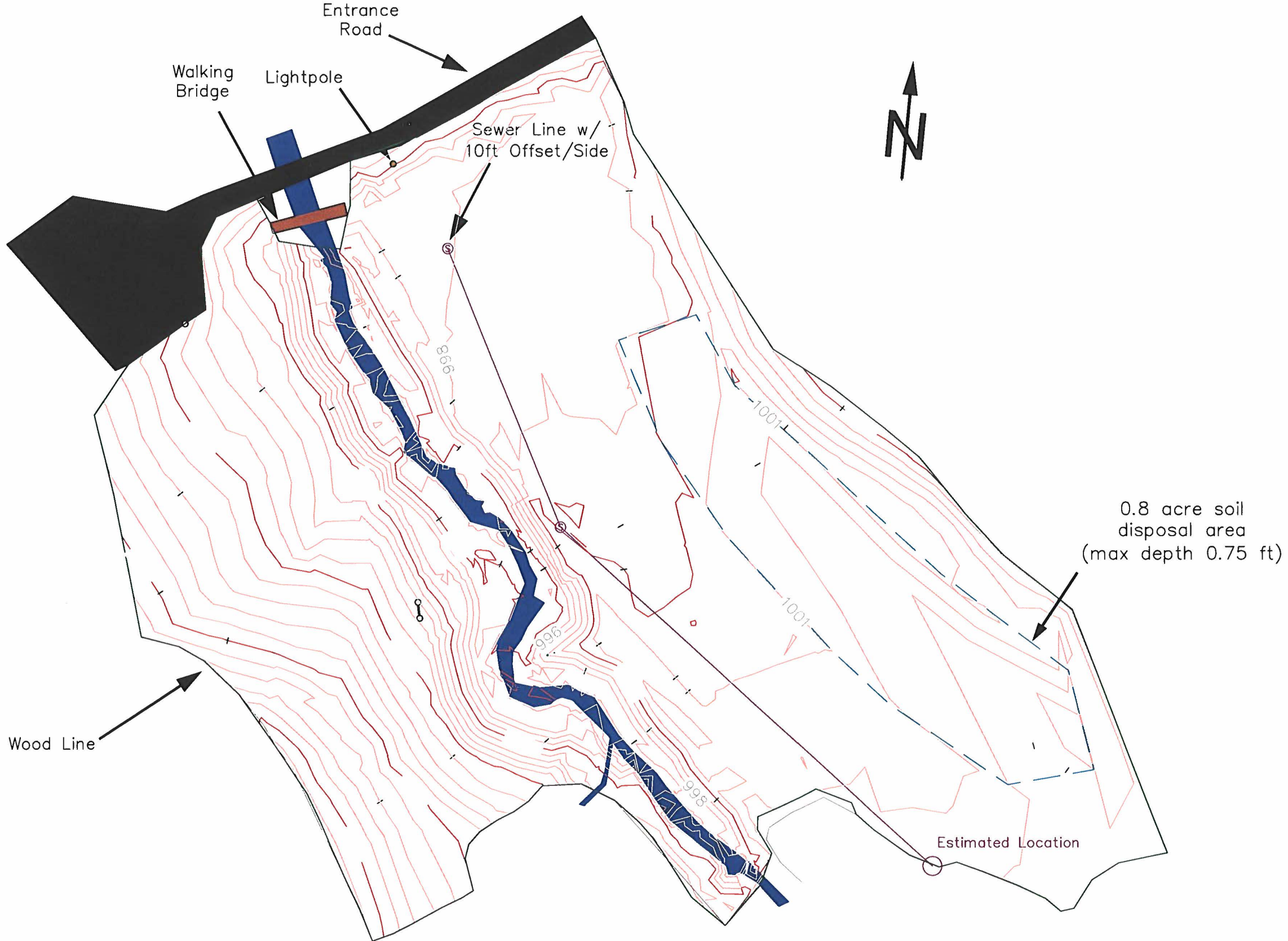
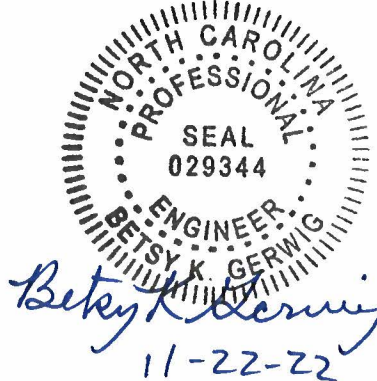
PROJECT #:	SCALE:
DRAWN BY: Betsy K Gerwig	DATE: November 21, 2022
CHECKED BY:	DATE:
SHEET: EXISTING	FILENAME: Rugby-Stream_6-2022rec_08edit2.dwg

**PROPOSED
Elevation Intervals**

— 5 ft

- - - 1 ft

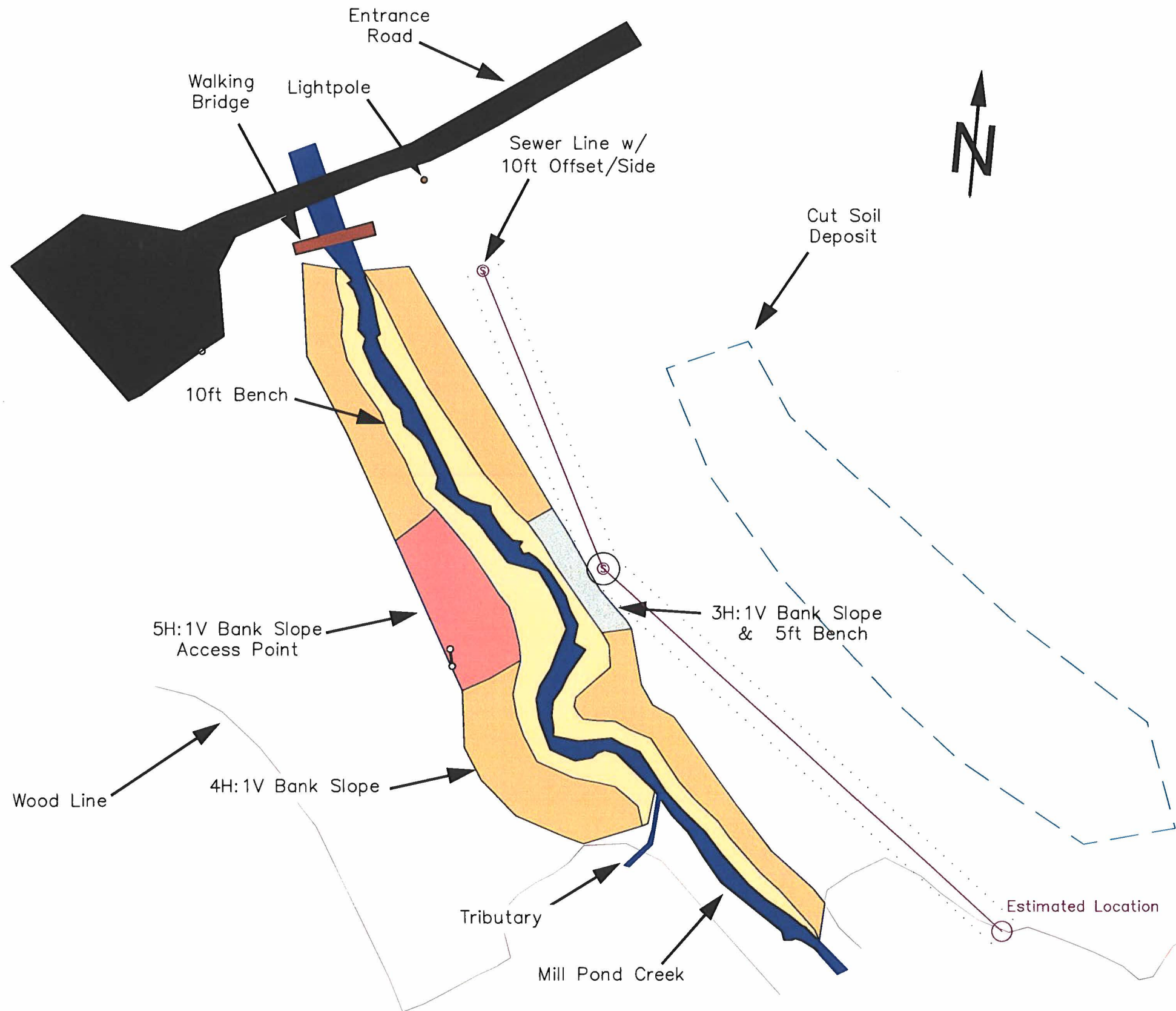
Elevation Assumed.



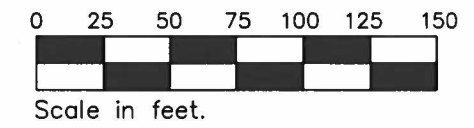
HENDERSON COUNTY SOIL & WATER CONSERVATION DISTRICT
 61 TRIPLE SPRINGS ROAD, HENDERSONVILLE, NC 28792
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RUGBY MIDDLE SCHOOL
MILL POND CREEK RESTORATION – UPPER SECTION
 HENDERSON COUNTY 35.357821, -82.512278

PROJECT #: MRP-2021-105	SCALE: 1 inch = 20 feet
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CHECKED BY:	DATE:
SHEET: PLANNEDTOPO	FILENAME: Rugby-Stream_6-2022rec_JBedit2.dwg



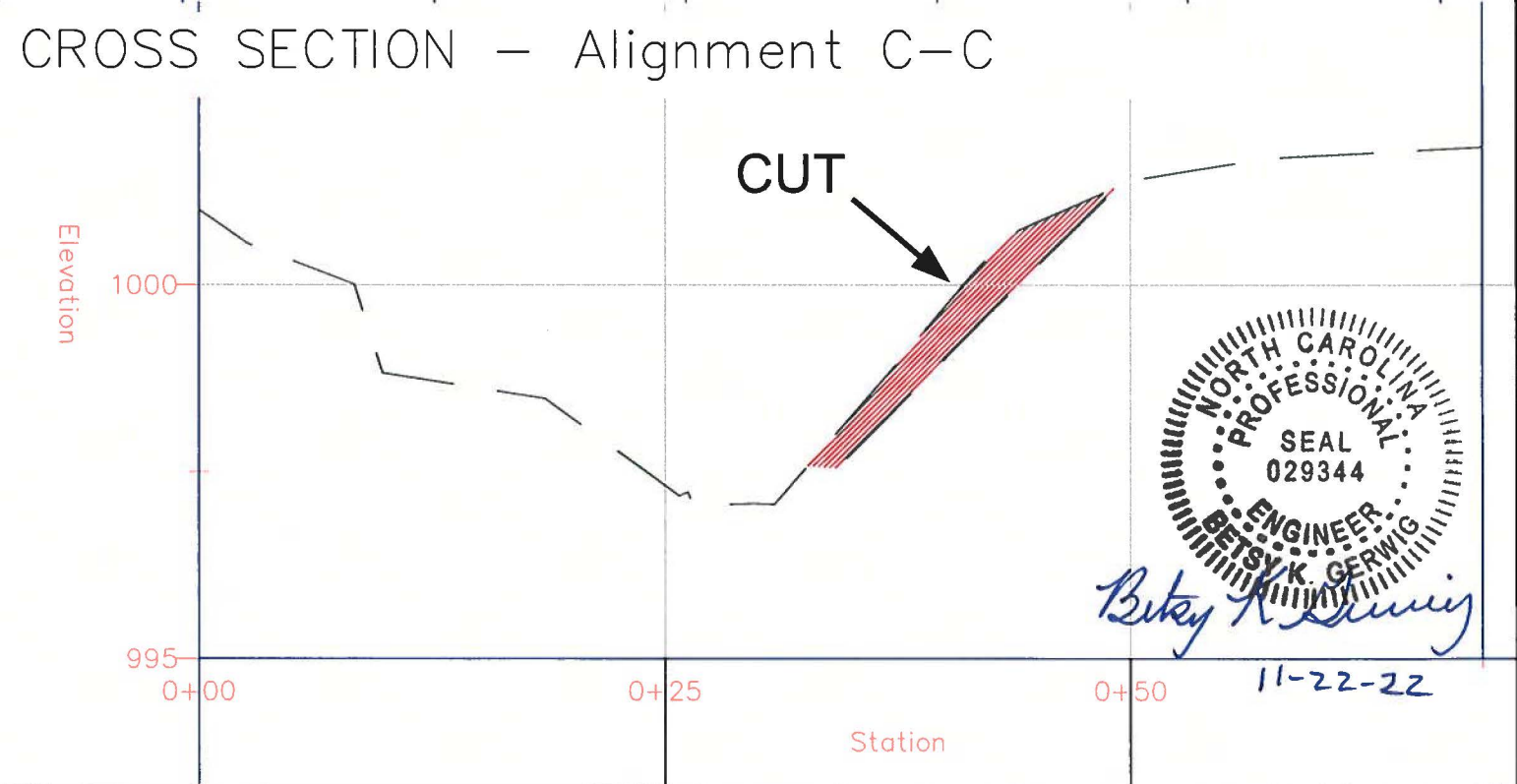
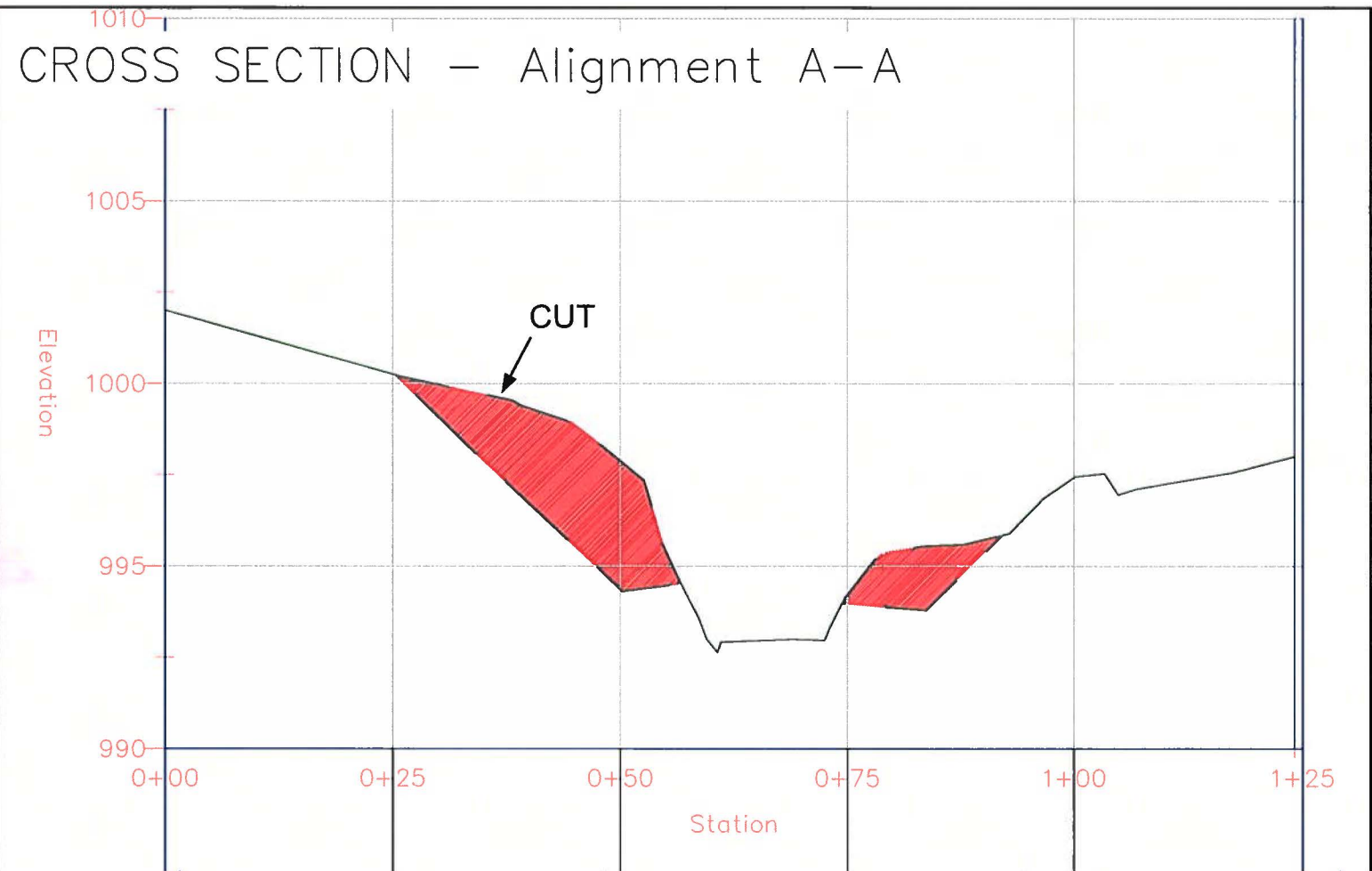
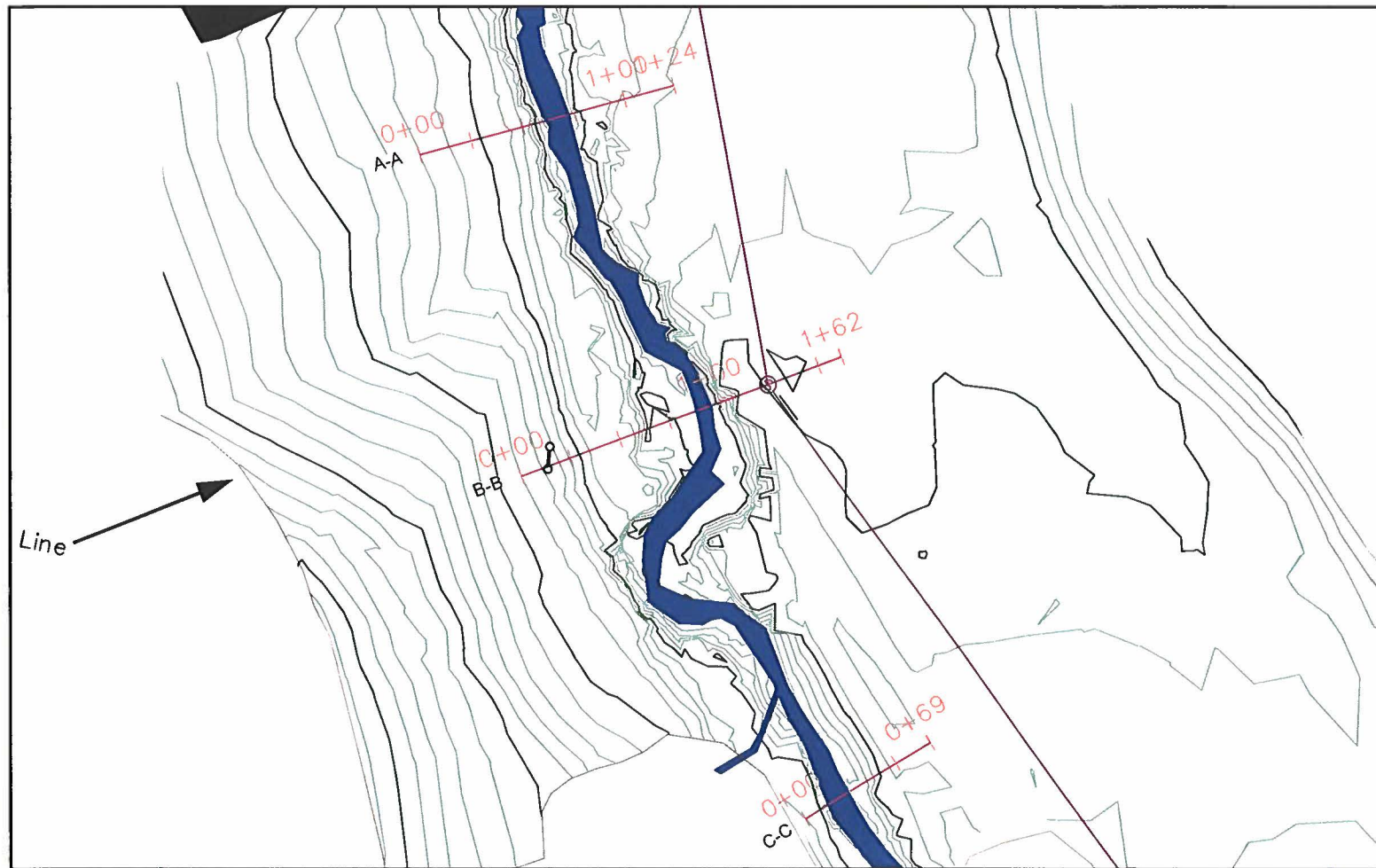
NORTH CAROLINA
 PROFESSIONAL
 SEAL
 029344
 ENGINEER
 BETSY K. GERWIG
Betsy K. Gerwig
 11-22-22



HENDERSON COUNTY SOIL & WATER CONSERVATION DISTRICT
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 61 TRIPLE SPRINGS ROAD, HENDERSONVILLE, NC 28792
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RUGBY MIDDLE SCHOOL
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 HENDERSON COUNTY 35.357821, -82.512278

PROJECT #: MRP-2021-105	SCALE: 1 inch = 20 feet
DRAWN BY: Betsy K Gerwig	DATE: November 21, 2022
CHECKED BY:	DATE:
SHEET: DESIGN	FILENAME: Rugby-Stream_6-2022rec_JBedts2.dwg



CONSTRUCTION SCHEDULE

THE FOLLOWING SEQUENCE MAY BE ADJUSTED BASED ON SITE CONDITIONS, STREAM FLOW, AVAILABILITY OF PLANT MATERIALS AND OTHER FACTORS

GENERAL CONSTRUCTION NOTES FOR ALL REACHES

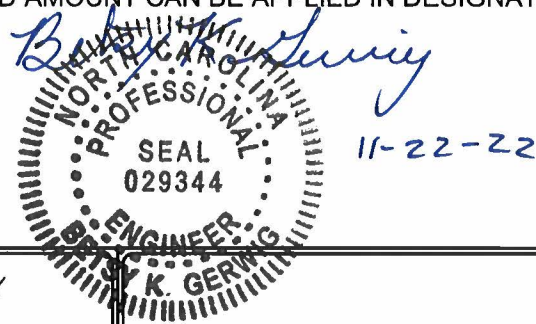
1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL DESIGN MANUAL.
2. THE CONTRACTOR SHALL DISTURB ONLY AS MUCH CHANNEL AS CAN BE STABILIZED WITH SEEDING, MULCH AND EROSION CONTROL MATTING BY THE END OF EACH WORKDAY.
3. LOCATIONS FOR STAGING AND STOCKPILE AREAS SHALL BE SELECTED BY THE CONTRACTOR SO AS TO MINIMIZE THE POTENTIAL FOR SOIL TO BE RELEASED TO THE STREAM.
4. EQUIPMENT SHALL NOT ENTER THE STREAM TO CROSS THE CHANNEL.

PHASE 1: MOBILIZATION AND GENERAL SITE PREPARATION

1. MOBILIZE EQUIPMENT AND MATERIALS TO THE SITE. LOCATE LIMITS OF DISTURBANCE.
2. ESTABLISH CONSTRUCTION ENTRANCES/EXITS AND STAGING AREAS.
3. ESTABLISH CONSTRUCTION HAUL ROUTES AND MINIMIZE DISTURBANCE BEYOND IMMEDIATE HAUL ROUTES AND GRADING LIMITS. STABILIZE HAUL ROUTE SURFACES WITH STONE AND FILTER FABRIC AS NECESSARY.
4. ALL HAUL ROADS SHALL BE MONITORED FOR SEDIMENT LOSS ON A DAILY BASIS. IN THE EVENT OF SEDIMENT LOSS, SILT FENCE OR OTHER APPROPRIATE SEDIMENT AND EROSION CONTROL PRACTICES SHALL BE INSTALLED. STABILIZED SILT FENCE OUTLETS SHALL BE LOCATED AT POINTS OF LOW ELEVATION OR A MINIMUM SPACING OF 150 LINEAR FEET.
5. ANY STOCKPILED MATERIALS NOT USED FOR BACKFILL WITHIN 7 DAYS OF EXCAVATION SHALL BE STABILIZED WITH TEMPORARY SEED AND STRAW MULCH.

PHASE 2: DEMOBILIZATION AND PLANTING

1. UPON COMPLETION OF STREAM AND FLOODPLAIN GRADING OPERATIONS, STOCKPILED MATERIALS AND CONSTRUCTION ENTRANCES/EXITS SHALL BE REMOVED, AND THE CONSTRUCTION HAUL ROUTES SHALL BE GRADED, SEEDING AND MULCHED AS NEEDED TO RESTORE THEM TO THEIR PRE-PROJECT CONDITIONS. SILT FENCES SHALL BE REMOVED ONLY AFTER PERMANENT GROUND COVER HAS BEEN ESTABLISHED ON DISTURBED AREAS.
2. THE CONTRACTOR SHALL ENSURE THAT THE SITE IS FREE FROM TRASH AND CONSTRUCTION MATERIALS PRIOR TO DEMOBILIZATION OF EQUIPMENT FROM THE SITE.
3. THE STAGING AREAS SHALL BE RESTORED TO THEIR PRE-PROJECT CONDITIONS.
4. EXCESS CUT SOIL MATERIAL SHOULD BE EITHER REMOVED FROM SITE OR USED ON-SITE OUTSIDE OF FLOODPLAIN. LIMITED AMOUNT CAN BE APPLIED IN DESIGNATED AREA (0.8 ACRE AT DEPTH OF 9 INCHES).



GROUND STABILIZATION AND MATERIALS HANDLING

GROUND STABILIZATION TIMEFRAMES:

- THE CONTRACTOR SHALL DISTURB ONLY AS MUCH CHANNEL AS CAN BE STABILIZED WITH SEEDING, MULCH AND EROSION CONTROL MATTING BY THE END OF EACH WORKDAY.
- ALL DISTURBED AREAS SHOULD BE STABILIZED AND/OR SILT FENCE INSTALLED IF INCLAMENT WEATHER IS EXPECTED THAT WOULD ALLOW SEDIMENT TO ENTER STREAM.

**WHENEVER POSSIBLE, STABILIZE STREAM BENCHES AND BANKS AS SOON AS POSSIBLE.*

STOCKPILE MANAGEMENT:

- STOCKPILE LOCATION SHOWN IN PLANS. STOCKPILE SHOULD BE LOCATED 50' OR MORE FROM STREAM.
- PROTECT STOCKPILE WITH SILT FENCE INSTALLED ALONG TOE OF SLOPE WITH A MINIMUM OFFSET OF FIVE FEET FROM THE TOE OF STOCKPILE.
- STABILIZE STOCKPILE WITHIN THE TIME FRAMES PROVIDED ON THESE PLANS. SOIL STABILIZATION IS DEFINED AS VEGETATIVE, PHYSICAL OR CHEMICAL COVERAGE TECHNIQUES THAT WILL RESTRAIN ACCELERATED EROSION ON DISTURBED SOILS FOR TEMPORARY OR PERMANENT CONTROL NEEDS.
- SILT FENCE MAY REMAIN AFTER STABILIZATION IF VEGETATION IS SLOW TO ESTABLISH.

EQUIPMENT AND VEHICLE MAINTENANCE:

- MAINTAIN VEHICLES AND EQUIPMENT TO PREVENT DISCHARGE OF FLUIDS.
- PROVIDE DRIP PANS UNDER ANY STORED EQUIPMENT.
- IDENTIFY LEAKS AND REPAIR AS SOON AS FEASIBLE, OR REMOVE LEAKING EQUIPMENT FROM THE PROJECT.
- COLLECT ALL SPENT FLUIDS, STORE IN SEPARATE CONTAINERS AND PROPERLY DISPOSE AS HAZARDOUS WASTE (RECYCLE WHEN POSSIBLE).
- REMOVE LEAKING VEHICLES AND CONSTRUCTION EQUIPMENT FROM SERVICE UNTIL THE PROBLEM HAS BEEN CORRECTED.
- BRING USED FUELS, LUBRICANTS, COOLANTS, HYDRAULIC FLUIDS AND OTHER PETROLEUM PRODUCTS TO A RECYCLING OR DISPOSAL CENTER THAT HANDLES THESE MATERIALS.

LITTER, CONSTRUCTION MATERIALS AND LAND CLEARING WASTE:

- NEVER BURY OR BURN WASTE. PLACE LITTER AND DEBRIS IN APPROVED WASTE CONTAINERS.
- PROVIDE A SUFFICIENT NUMBER AND SIZE OF WASTE CONTAINERS (E.G DUMPSTER, TRASH RECEPTACLE) ON SITE TO CONTAIN CONSTRUCTION AND DOMESTIC WASTES.
- LOCATE WASTE CONTAINERS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.
- LOCATE WASTE CONTAINERS ON AREAS THAT DO NOT RECEIVE SUBSTANTIAL AMOUNTS OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY TO A STORM DRAIN, STREAM OR WETLAND.
- COVER WASTE CONTAINERS AT THE END OF EACH WORKDAY AND BEFORE STORM EVENTS OR PROVIDE SECONDARY CONTAINMENT. REPAIR OR REPLACE DAMAGED WASTE CONTAINERS.
- ANCHOR ALL LIGHTWEIGHT ITEMS IN WASTE CONTAINERS DURING TIMES OF HIGH WINDS.
- EMPTY WASTE CONTAINERS AS NEEDED TO PREVENT OVERFLOW. CLEAN UP IMMEDIATELY IF CONTAINERS OVERFLOW.
- DISPOSE WASTE OFF-SITE AT AN APPROVED DISPOSAL FACILITY.
- ON BUSINESS DAYS, CLEAN UP AND DISPOSE OF WASTE IN DESIGNATED WASTE CONTAINERS.
- REMOVED VEGETATION SHOULD BE REMOVED FROM THE SITE AND DISPOSED AT THE HENDERSON CO. CONVENIENCE CENTER'S YARD WASTE AREA. WOODY VEGETATION CAN BE SHREDDED ON-SITE AND USED AS MULCH ON THE GRADED SPOIL PILE.

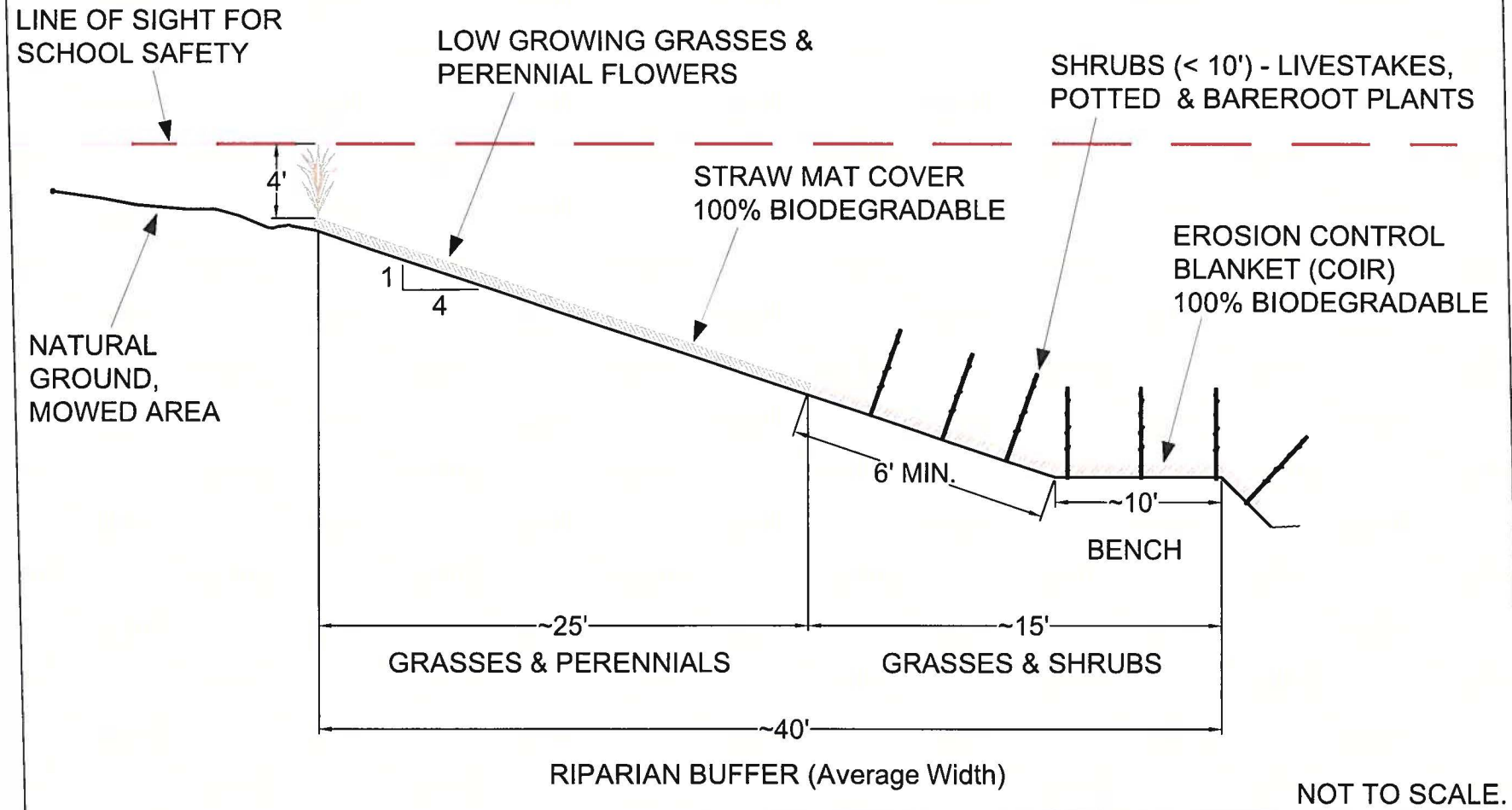


HENDERSON COUNTY
SOIL AND WATER
CONSERVATION DISTRICT
61 TRIPLE SPRINGS ROAD, HENDERSONVILLE, NC 28792
(828) 697-4949

RUGBY MIDDLE SCHOOL
MILL POND CREEK RESTORATION – UPPER SECTION
HENDERSON COUNTY
35.357821, -82.512278

PROJECT #: MRP-2021-105	SCALE: 1 inch = 20 feet
DRAWN BY: Betsy K Gerwig	DATE: November 21, 2022
CHECKED BY:	DATE:
SHEET: EROSION CONTROL	FILENAME: Rugby-Stream_6-2022rec_JBedit2.dwg

TYPICAL CROSS-SECTION



NOT TO SCALE.

FOR SECURITY PURPOSES, THE SCHOOL HAS REQUESTED THE ABILITY TO SEE ACROSS THE STREAM CORRIDOR. AT THE TOP OF THE BANK, VEGETATION SHOULD NOT BE HIGHER THAN 4 FEET AND WILL BE MAINTAINED AT THIS HEIGHT AS VEGETATION MATURES. THE VEGETATION PLAN IS DESIGNED TO MEET THIS GOAL WHILE STILL PROVIDING SHADE OVER THE STREAM. AFTER INITIAL STABILIZATION, A VARIETY OF SHRUBS WILL BE PLANTED ON THE BENCH AND UP TO 6 FEET ABOVE BENCH. SHRUBS ARE TO HAVE A MATURE HEIGHT NO MORE THAN 10 FT HIGH. A FULL LIST OF APPROVED PLANT SPECIES WILL BE PROVIDED SEPARATELY. A VARIETY OF WILDFLOWERS & PERENNIALS WILL ALSO BE PLANTED. PLANTS MAY BE ESTABLISHED THROUGH SEEDS, LIVESTAKES, LANDSCAPE PLUGS, BARE ROOT PLANTS, AND POTTED PLANTS.

ALL SHRUBS SHALL BE PLANTED AT MINIMUM SPACING OF 3' X 3' IN ALTERNATING ROWS. LIVESTAKES SHALL BE INSTALLED ALONG EDGE OF STREAM AND ACROSS THE BENCH. A MINIMUM OF THREE (3) VARIETIES OF SHRUBS FROM THE PROVIDED LIST SHALL BE PLANTED. THE DIFFERENT VARIETIES SHALL BE RANDOMLY MIXED THROUGHOUT THE AREA. CONSULT HENDERSON COUNTY SOIL AND WATER CONSERVATION DISTRICT PERSONNEL FOR ADDITIONAL GUIDANCE.

ALL SLOPES GREATER THAN 2:1 SHALL BE SEEDED WITH HYDROSEEDING EQUIPMENT. STEEP SLOPES SHALL HAVE SCARIFIED SURFACES WITH TRENCHES 1-2 INCHES DEEP AND 6-12 INCHES APART ACROSS THE SLOPE IN WHICH THE SEED CAN LODGE AND GERMINATE.

PERMANENT SEEDING FOR ALL BANK AND BENCH AREA:

CREeping RED FESCUE: 25%

ANNUAL RYE GRASS: 25%

PERENNIAL RYE GRASS: 50%

SEEDING RATE: 75 LBS/ACRE

*DOUBLE SEED LOADING WHEN HYDRO-SEEDING.

ADDITIONAL SEEDING FOR BENCH:

RIVER OATS: 5 LBS/ACRE

FOX SEDGE: 5 LBS/ACRE

LIME & FERTILIZER*

LIME: 2,000 LBS/ACRE (45 LBS/1000 SQFT) OF FINELY GROUND, DOLOMITIC LIMESTONE

FERTILIZER: 700 LBS/ACRE (16 LBS/1000 SQFT) OF 10-10-10 OR EQUIVALENT

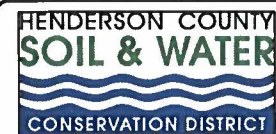
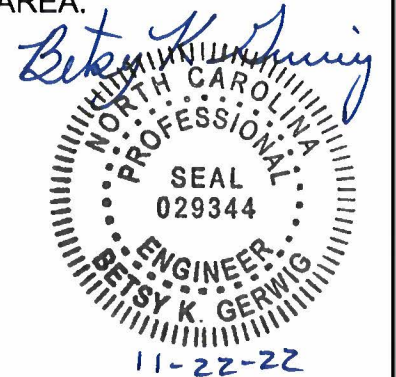
*THESE RATES ALSO APPLY WHEN HYDROSEEDING.

MULCHING

ALL EXCAVATED AREAS SHALL BE MULCHED WITH AN 100% BIODEGRADABLE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN SC-150BN OR 770 GRAM COIR MATTING OR EQUIVALENT). BLANKETS SHALL BE ANCHORED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL SOIL PREP WORK SHOULD BE COMPLETED PRIOR TO INSTALLATION OF EROSION CONTROL MATTING.

AREAS OUTSIDE THE EXCAVATION AREA MAY BE MULCHED WITH DRY, UNCHOPPED, UNWEATHERED SMALL GRAIN STRAW OR HAY FREE OF SEEDS OF COMPETING PLANTS. SPREAD AT THE RATE OF 1-2 TONS PER ACRE DEPENDING UPON THE SEASON. EVENLY SPREAD MULCH OVER THE AREA BY HAND OR MECHANICAL EQUIPMENT. APPLY MULCH UNIFORMLY SO THAT 25% OF THE GROUND SURFACE IS VISIBLE. EROSION CONTROL BLANKET OR MATTING CAN BE USED TO FURTHER STABILIZE THESE AREAS.

EXCAVATED TOPSOIL (4-6") SHOULD BE STOCK PILED ON-SITE. TOPSOIL SHOULD BE INCORPORATED INTO FINAL GRADE PRIOR TO FERTILIZATION AND SEEDING.



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RUGBY MIDDLE SCHOOL
MILL POND CREEK RESTORATION – UPPER SECTION
HENDERSON COUNTY
35.357821, -82.512278

PROJECT #: MRP-2021-105	SCALE: 1 inch = 20 feet
DRAWN BY: Betsy K Gerwig	DATE: November 21, 2022
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SHEET: PLANTINGS	FILENAME: Rugby-Stream_6-2022rec_JBedit2.dwg

Material Specification

Either erosion Control blanket or coir matting with straw underlayment can be used for slope stabilization. Coir matting should be used along stream edge.

Erosion Control blanket shall be a machine-produced 100% biodegradable mat with an agricultural straw fiber matrix. The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with 100% biodegradable woven natural fiber netting. The netting shall consist of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form an approximate 0.50 inch x 1.00 inch (1.27 x 2.54 cm) mesh. The blanket shall be sewn on 1.50 inch (3.81 cm) centers (50 stitches per roll width) with biodegradable thread. The blanket shall be manufactured with a colored line or thread stitched along both outer edges (approximately 2-5 inches (5-12.5 cm) from the edge) to ensure proper material overlapping.

The straw erosion control blanket shall be S150 BN as manufactured by North American Green, 700 gram coir matting, or equivalent. The blanket shall have the following properties:

Material Content

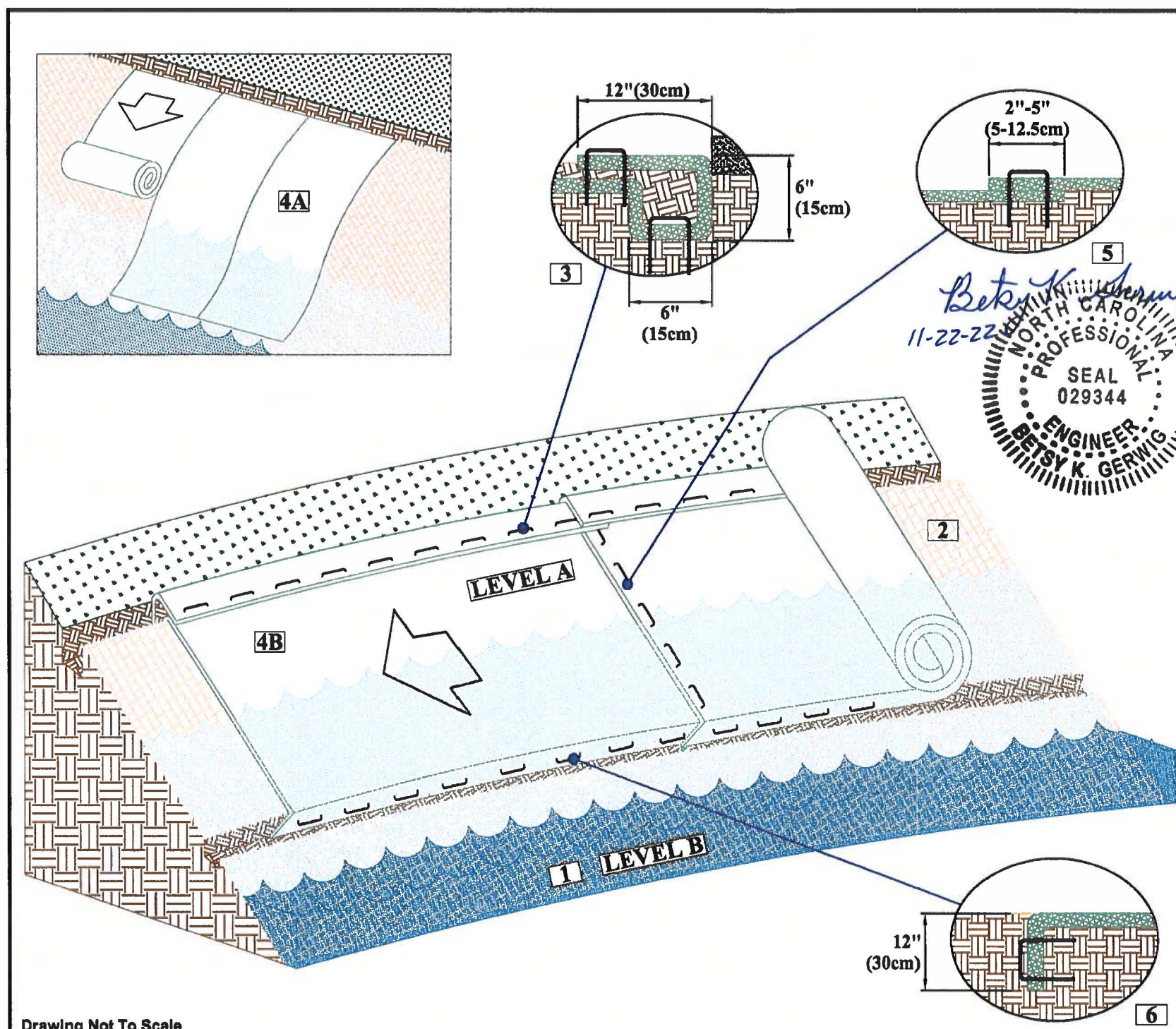
Matrix 100% Straw Fiber (0.50 lbs/yd²) (0.27 kg/m²); Netting on both sides, Leno woven 100% biodegradable organic jute fiber (9.30 lbs/1,000 ft² [4.50 kg/100 m²] approximate weight); Thread biodegradable.

*Photo-biodegradable plastics netting is NOT acceptable.

Physical Specifications (per roll)

Width 6.67 ft
 Length 108.00 ft
 Weight 53.50 lbs
 Area 80.00 yd²
 Stitch Spacing 1.50 inches

A 700 gram coir matting that is 100% biodegradable is acceptable with proper seeding and mulch underneath matting. Coir matting should be used along the stream edge.



**SHORELINE/
 STREAMBANK
 INSTALLATION
 DETAIL**

1. For easier installation, lower water level from Level A to Level B before installation.
2. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
3. Begin at the top of the shoreline by anchoring the RECPs in a 6" (15cm) deep X 6" (15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12" (30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" (30cm) apart across the width of the RECPs.
4. Roll RECPs either (A) down the shoreline for long banks (top to bottom) or (B) horizontally across the shoreline slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
5. The edges of all horizontal and vertical seams must be stapled with approximately 2" - 5" (5-12.5cm) overlap. **Note:** *In streambank applications seam overlaps should be shingled in the predominant flow direction.
6. The edges of the RECPs at or below normal water level must be anchored by placing the RECPs in a 12" (30cm) deep X 6" (15cm) wide anchor trench. Anchor the RECPs with a row of staples/stakes spaced approximately 12" (30cm) apart in the trench. Backfill and compact the trench after stapling (stone or soil may be used as backfill). For installation at or below normal water level, use of ShoreMax mat on top of the RECP or geotextile may be recommended.

NOTES:
 * In loose soil conditions, the use of staple or stake lengths greater than 6" may be necessary to properly secure the RECPs.
 ** Bottom anchor trench can be eliminated when using ShoreMax mat over RECP along the bottom edge.

Drawing Not To Scale

NORTH AMERICAN GREEN
 5401 St. Wendel - Cynthiana Rd. PH: 800-722-2040
 Poseyville, IN 47633 www.nagreen.com

Disclaimer:
 The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Drawn on: 5-4-17

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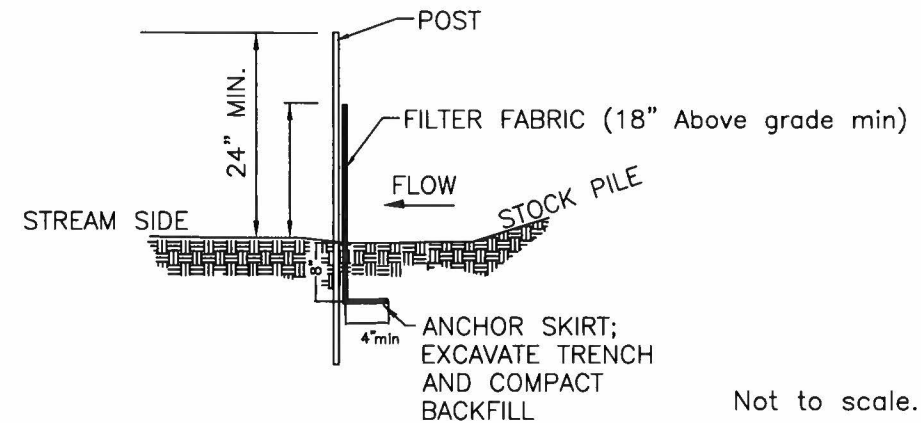
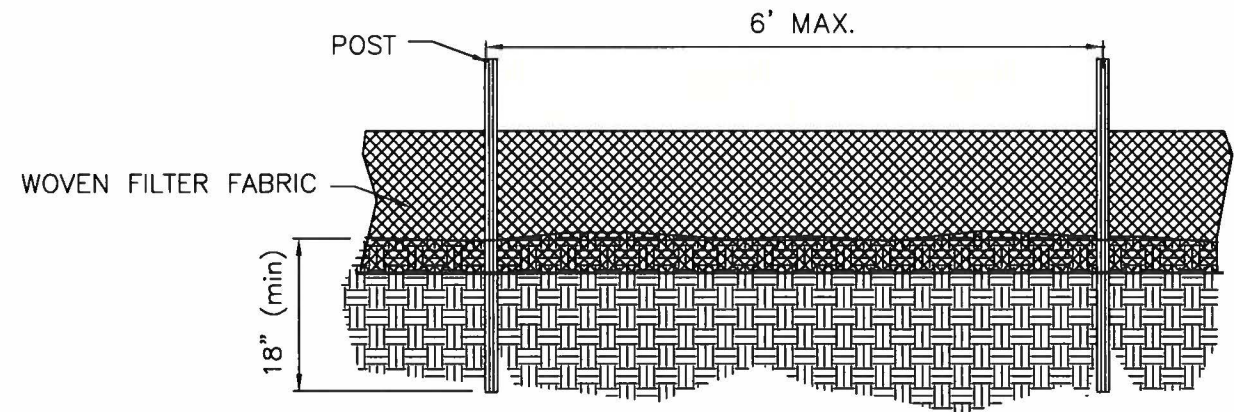
RUGBY MIDDLE SCHOOL
MILL POND CREEK RESTORATION – UPPER SECTION
 HENDERSON COUNTY 35.357821, -82.512278

PROJECT #: MRP-2021-105	SCALE: 1 inch = 20 feet
DRAWN BY: Betsy K Gerwig	DATE: November 21, 2022
CHECKED BY:	DATE:
SHEET: STABILIZATION	FILENAME: Rugby-Stream_6-2022rec_JBedit2.dwg

TEMPORARY SILT FENCE DETAILS:

SILT FENCE SHOULD BE INSTALLED AS NECESSARY ALONG CONSTRUCTION ENTRANCE, AROUND STOCK PILES, AND DOWN-SLOPE OF SPOIL DEPOSITION AREAS UNTIL VEGETATION IS ESTABLISHED.

IF EMINENT WEATHER IS EXPECTED OR IF CONSTRUCTION ACTIVITIES WILL BE SUSPENDED FOR MORE THAN 2 DAYS, ALL EXCAVATED AREAS SHOULD BE STABILIZED AT THE TOW OF SLOPE WITH SILT FENCE OR STRAW BALES. SLOPES AND EXCAVATIONS SHOULD BE STABILIZED AS SOON AS POSSIBLE UNDER NORMAL CIRCUMSTANCES.

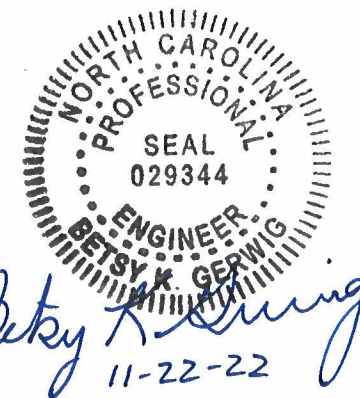


GENERAL SILT FENCE NOTES:

- WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
- POSTS SHALL EXTEND PAST TOPS OF FABRIC. POSTS CAN BE WOOD OR STEEL. TURN SILT FENCE UP SLOPE AT ENDS.
- DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
- DO NOT INSTALL SILT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

- FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



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Attachment II: Vendor Information Form

Company/Firm Name

Mailing Address

Contact Name

Contact Title

Phone Number

Fax

Email

Website

Federal Tax ID Number

Unique Entity Identification Number (SAM.gov)

Required Documentation

Internal Routing

Completed IRS W-9 form dated within calendar year and signed by authorized personnel.

W9 Received

YES

Minority and Women Owned Business (MWBE) certification, if applicable.

MWBE Certification Received

YES

N/A

Unique Entity Identification Number
confirmed in SAM.gov

YES