

Town of Waynesville, NC

Town Council Regular Meeting

Town Hall, 9 South Main Street, Waynesville, NC 28786

Date: September 22nd, 2026

Time: 6:00 p.m.

The agenda and all related documentation may be accessed electronically at www.waynesvillenc.gov.

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(828) 452-2491 cpoolton@waynesvillenc.gov

A. CALL TO ORDER – Mayor Gary Caldwell

1. Welcome/Calendar/Announcements

B. PUBLIC COMMENT

C. ADDITIONS OR DELETIONS TO THE AGENDA

D. CONSENT AGENDA

All items below are routine by the Town Council and will be enacted by one motion. There will be no separate discussion on these items unless a Councilmember so requests. In which event, the item will be removed from the Consent Agenda and considered with other items listed in the Regular Agenda.

2.
 - a. Approve September 8th, 2026 Regular Meeting Minutes
 - b. Appointment to the Waynesville Housing Authority
 - c. Budget Amendment for the Town Council
 - d. Call for a public hearing for October 13th to consider an application to designate 437 Boundary St as a Local Landmark.

Motion: To approve the consent agenda as presented

E. PROCLAMATION

3. Public Power Week
 - Mayor Gary Caldwell

F. PRESENTATION

4. Presentation by ES Engineering, P.C. and EnviroScience, Inc. on the Richland Creek and Vance Greenway Restoration Project.
- Emily Tarsa, Ph.D.; Haley Valdez, P.E.; Angelina Hotz, P.E.; Julie Bingham, CERP ES Engineering, P.C. and EnviroScience, Inc.

G. PUBLIC HEARING

5. Public Hearing to consider text amendments related to periodic fire inspection standards and requirements for the installation of key boxes for change in occupancy classification, Chapter 30- Fire Prevention and Protection of the Waynesville Code of Ordinances.
- Olga Grooman, Interim Development Services Director

Motion: To adopt the ordinances as presented (or amended)

H. NEW BUSINESS

6. Consideration of Budget Amendment – Water Treatment Plant Critical Improvements
- Laura Yonkers, Deputy Director of Public Works-Sustainability

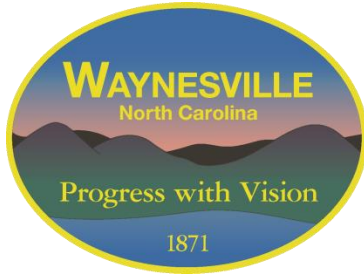
Motion: To approve the amendment to the Water Treatment Plant budget, Fund/Account 61-7122-00 – Capital Projects (Water Treatment Plant Improvements), appropriating \$130,500 from available excess Water revenues realized during the prior fiscal year, and to authorize staff to proceed with the necessary repairs, maintenance, contractual services, filter-bed media replenishment, and watershed road repair and stabilization activities described herein.

I. COMMUNICATION FROM STAFF

7. Town Attorney's Report- Legislative restriction on local government zoning authority
- Town Attorney, Martha Bradley

J. COMMUNICATIONS FROM THE MAYOR AND COUNCIL

K. ADJOURN



TOWN OF WAYNESVILLE

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 16 South Main Street
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2026 CALENDAR

ALL COUNCIL MEETINGS TO START AT 6:00 PM IN THE BOARD ROOM LOCATED
 AT
 9 SOUTH MAIN STREET UNLESS OTHERWISE NOTED

2026	
Friday, October 2 nd	First Friday-5-8pm on Main Street
Sat. October 10	Church Street Art and Craft show 10am-5pm
Tues. October 13	Town Council Meeting – Regular Session
Tues. October 27	Town Council Meeting – Regular Session
Saturday October 31	Treats on the Street-5-7pm
Friday, November 6 th	First Friday-5-8pm on Main Street
Tues. November 10	Town Council Meeting – Regular Session
Tues. November 24	Town Council Meeting – Regular Session
Friday, December 4 th	First Friday-5-8pm on Main Street
Sat. December 5	Christmas Tree Lighting 5pm
Mon. December 7	Waynesville Christmas Parade 6-7pm
Tues. December 8	Town Council Meeting – Regular Session
Sat. December 12	A Smoky Mountain Christmas 6-9pm

Board and Commission Meetings – September 2026

ABC Board	ABC Office – 52 Dayco Drive	September 15 3 rd Tuesday 10:00 AM
Board of Adjustment	Town Hall – 9 S. Main Street	September 1 1 st Tuesday 5:30 PM
Cemetery Commission	Public Services Building	Every Other Month- September 15 3 rd Tuesday 2:00 PM
Downtown Waynesville Commission	Town Hall – 9 South Main Street	September 15 3 rd Tuesday 8:30 AM
Environmental Sustainability Board	Public Services-129 Legion Drive	September 3 1 st Thursday 4:30pm
Historic Preservation Commission	Town Hall – 9 S. Main Street	September 2 1 st Wednesday 2:00 PM
Planning Board	Town Hall – 9 S. Main Street	September 21 3 rd Mondays 5:30 PM
Public Art Commission	Town Hall – 9 S. Main Street	September 1 1 st Tuesdays 4:00 PM
Recreation & Parks Advisory Commission	Rec Center Office – 550 Vance Street	September 21 3 rd Monday 5:30 PM
Tree Advisory Board	Public Services-129 Legion Drive	2nd Thursday of the month, Quarterly @ 6:30pm October 8 th , 2026, January 14 th , 2027, and April 8 th , 2027
Waynesville Housing Authority	Main Office-48 Chestnut Park Drive	September 23 4 th Wednesday 9:00 AM

MINUTES OF THE TOWN OF WAYNESVILLE TOWN COUNCIL
Regular Meeting
September 8, 2026

THE WAYNESVILLE TOWN COUNCIL held a regular meeting on Tuesday, September 8, 2026, at 6:00pm in the Town Hall Board Room located at 9 South Main Street Waynesville, NC.

A. CALL TO ORDER

Mayor Gary Caldwell called the meeting to order at 6:00 pm with the following members present:

Mayor Gary Caldwell
Mayor Pro Tempore Chuck Dickson
Councilmember Jon Feichter
Councilmember Anthony Sutton
Councilmember Julia Boyd

The following staff members were present:

Rick Howell, Interim Town Manager
Page McCurry, Assistant Town Manager & HR Director
Jesse Fowler, Deputy Town Manager
Martha Bradley, Town Attorney
Candace Poolton, Town Clerk/Assistant to the Manager
Chris Mehaffey, Fire Chief
Olga Grooman, Interim Development Services Director
Alex Mumby, Land Use Administrator
Laura Yonkers, Deputy Director of Public Works-Sustainability

The following members of the media were present:

Paul Nielsen, The Mountaineer

1. Welcome/Calendar/Announcements

Mayor Gary Caldwell welcomed everyone and announced that the next Council meeting will be September 22nd.

B. PUBLIC COMMENT

There was no public comment.

C. ADDITIONS OR DELETIONS TO THE AGENDA

A motion was made by Councilmember Boyd, seconded by Councilmember Feichter, to adopt the agenda as presented. The motion passed unanimously.

D. CONSENT AGENDA

All items below are routine by the Town Council and will be enacted by one motion. There will be no separate discussion on these items unless a Councilmember requests. In which event, the item will be removed from the Consent Agenda and considered with other items listed in the Regular Agenda.

2.
 - a. Motion to approve August 25th, 2026 Regular Meeting Minutes
 - b. Motion to approve the budget amendment.
 - c. Motion to approve the budget amendment and adopt Resolutions R-20-26, R-21-26, R-22-26.
 - d. Motion to call for a public hearing for September 22, 2026, to consider text amendments related to periodic fire inspection standards and requirements for the installation of key boxes.

A motion was made by Councilmember Sutton, seconded by Councilmember Dickson, to adopt the consent agenda as amended (items 2.b. and 2.c. were updated-documents in agenda packet). The motion passed unanimously.

E. PROCLAMATION

3. Constitution Week
 - Mayor Gary Caldwell

Mayor Caldwell proclaimed September 17th-23rd as Constitution Week, with September 17th marking the two hundred thirty-ninth anniversary of the drafting of the Constitution of the United States of America by the Constitutional Convention.

F. PUBLIC HEARINGS

4. A public hearing to consider a text amendment to amend the definition and allowance of Billiard Halls.
 - Alex Mumby, Land Use Administrator

A motion was made by Councilmember Boyd, seconded by Councilmember Dickson, open the public hearing at 6:05pm. The motion passed unanimously.

Land Use Administrator Alex Mumby reported that staff received an application for a new billiard hall in Walnut Street Plaza. Staff realized that under the current definition, a Billiard/Pool Hall includes all public businesses which contain at least one pool table, restricting them to only Regional Center zoning districts. Staff considered this definition to be overly restrictive and reflected outdated perceptions of pool halls. He said that the nature of the pool halls has evolved, and they serve as community gathering places that provide entertainment, host leagues, and accommodate regional and national tournaments.

He reported that at their last meeting, the Planning Board recommended removing Billiard/Pool Halls as a separate use from both the Table of Permitted Uses and from Definitions, and instead, pool halls will be classified under the existing category of Recreation Facilities, Indoor and be allowed in all zoning districts.

Councilmember Sutton, asked if we were to strike the definition of “pool hall” and include it under “recreation”, would that eliminate the term “pool hall” from the table. Mr. Mumby said that is correct, but it would be included in the definition of Recreation Facilities. Councilmember Boyd emphasized that “bars” are a separate definition from “pool halls”.

The applicants, Bucky Fish and Chuck Stevenson said that indoor activities are limited in WNC, and Waynesville Pool Hall would provide a needed service.

Several individuals spoke in support of the text amendment: Neal Cosmo, Gene Slay, Ariel Freeman, Lea Davis, Dalton Carter, Phyllis Austin, Kim Kenum, and Tyler Junesbar.

A motion was made by Councilmember Sutton, seconded by Councilmember Dickson, to close the public hearing at 6:37pm. The motion passed unanimously.

Mayor Caldwell reflected on his time running Smoky Mountain Shootout and said that the pool playing community are the nicest people.

Councilmember Dickson said he is in favor of pool halls but expressed concern that if they expand the allowance of pool halls to all districts, that means that businesses could be located in neighborhoods. Mr. Mumby said that they would still need a Special Use Permit if the pool hall wanted to serve food or alcohol. Councilmember Sutton said he is in favor of a pool hall being available in any zoning district because it would allow residents to walk to the business. Mr. Mumby clarified that both text amendment proposals would allow Waynesville Billiards to open. Councilmember Feichter echoed Councilmember Sutton’s comments. Councilmember Dickson reminded Council that parking requirements can no longer be required by municipalities, which means parking could become an issue in neighborhoods that have a pool hall. Councilmember Boyd said if it becomes a problem, Council will address it.

A motion was made by Councilmember Sutton, seconded by Councilmember Feichter, to adopt the proposed ordinance (reclassify “billiard halls” as “recreation” and remove “billiard halls” from the table of permitted uses) and find it consistent with the 2035 in that it continues to promote smart growth principles in land use planning and zoning, creates walkable and attractive neighborhoods and commercial centers, and encourages infill, mixed-use, and context sensitive development. The motion passed unanimously.

A motion was made by Councilmember Sutton, seconded by Councilmember Boyd, to find the ordinance consistent with the 2035 Comprehensive Plan in that it creates opportunities for a sustainable economy, promotes the growth of existing local businesses and Waynesville’s “maker economy”, promotes Waynesville’s downtown districts, inns, restaurants, and reputation as the “Gateway to the Smokies”, and encourages creatively designed, mixed-use, walkable centers and commercial districts that appeal to residents and visitors. The motion passed unanimously.

5. A Public Hearing for a text amendment to revise the Table of Permitted Uses, LDS 2.5.3.
 - Alex Mumby, Land Use Administrator

A motion was made by Councilmember Dickson, seconded by Councilmember Boyd, to open the public hearing at 6:48pm. The motion passed unanimously.

Land Use Administrator Alex Mumby reported that while working on the adoption of the Rural Conservation District, staff noted some changes which would make the Table of Permitted Uses more user-friendly, particularly for those who are not familiar with using it. He said this update was one of three updates which were included with the Rural Conservation District that Council asked to be separated out and sent back to the Planning Board. He said this update was passed unanimously by the Planning Board, while the other two were tabled.

Mr. Mumby outlined the following updates to the table that will make the table easier to read and interpret:

- Changing PL for Permitted in Designated Locations to MU for Permitted in Mixed Use Overlays.
- PC and CL were both used for Permitted on Corner Lots, and we have simplified it to only use CL.
- Adding RR to designate uses which are allowed in Railroad Overlay Districts.
- Using "&" and "Or" to clarify where uses are allowed.

Mr. Mumby clarified that this update would not change the "use" of anything.

Councilmember Sutton pointed out several changes that need to be made to the ordinance-

- The "Racetrack" cell in "RCON" appears blank: it needs a dash.
- "Produce stand" show an "N-" in the "LLMR" column, where the other cells use a hyphen.
- The "Wireless Communications Facilities" meaning shows a dash under "RCNC", change it to match the rest of the row.

There was no public comment.

A motion was made by Councilmember Dickson, seconded by Councilmember Boyd, to close the public hearing at 6:55pm. The motion passed unanimously.

A motion was made by Councilmember Sutton, seconded by Councilmember Feichter, to find the ordinance consistent with the 2035 Comprehensive Plan in that it improves the symbology used in the Land Development Standards Table of Permitted Uses (2.5.3), making it easier to understand and apply. The motion passed unanimously.

A motion was made by Councilmember Sutton, seconded by Councilmember Feichter, to adopt the proposed ordinance as amended (see requested changes above). The motion passed unanimously.

G. NEW BUSINESS

6. Budget Amendment for the Public Works Department
 - Laura Yonkers, Deputy Director of Public Works-Sustainability

Deputy Director Laura Yonkers reported that the Town, in collaboration with the Environmental Sustainability Board (ESB), submitted a grant application through the North Carolina Urban Forest Council to obtain consulting services related to the development of a comprehensive tree inventory. She reminded Council that a tree inventory is required for Waynesville to be a Tree City USA . Ms. Yonkers said the total amount of the proposed budget amendment is \$28,250, with the North Carolina Forest Service (NCFS) providing funding for 75% of the total project cost, or \$21,187.50, and with the Town providing a local match of \$7,062.50.

Councilmember Feichter asked when the grant period is over, who will maintain the tree inventory and is there an ongoing software expense. Ms. Yonkers said they will be adding a layer to the GIS database that they already have access to, and staff in conjunction with the Tree Board will be maintaining and updating the database.

A motion was made by Councilmember Dickson, seconded by Councilmember Boyd, to approve the budget amendment. The motion passed unanimously.

7. Request for Council approval to proceed with a Municipal Agreement between the Town of Waynesville and the North Carolina Department of Transportation (NCDOT) for development of the Comprehensive Pedestrian Plan.
 - Olga Grooman, Interim Development Services Director

Interim Development Services Director Olga Grooman reported that the Town has an active Pedestrian Plan, and they have applied for the NCDOT grant to update it. She explained to Council that the total estimated cost of the project is \$85,000, with NCDOT providing a maximum of \$72,000, and the Town providing \$13,000 in local matching funds, as well as any costs that exceed the estimated project cost of \$85,000. Ms. Grooman said NCDOT will reimburse the Town if there's anything left, and if the Town exceeds the budget, the Town would pay the difference. Ms. Grooman said a subcommittee will be formed to update the Pedestrian Plan.

Councilmember Feichter expressed concern that the Town would be on the hook for any additional costs incurred. Mr. Mumby said staff had a call with NCDOT and they were informed of the budget before they execute the plan. Ms. Grooman added that staff would be notified of any additional cost beforehand and periodic reporting requirements will help keep expenditures on track.

A motion was made by Councilmember Sutton, seconded by Councilmember Dickson, to approve the Municipal Agreement between the Town of Waynesville and the North Carolina Department of Transportation (NCDOT) for development of the Comprehensive Pedestrian Plan and to authorize the Interim Town Manager and Finance Director to execute the agreement upon completion of the pre-audit certification required by the "Local Government Budget and Fiscal Control Act" with the understanding that staff will return to Council before obligating Town funds beyond the \$13,000 local match. The motion passed unanimously.

8. Salamander Scavenger Hunt Artist Approval
 - George Kenney, WPAC Chair, and Candace Poolton, Town Clerk and WPAC staff liaison

Town Clerk Candace Poolton reported that the Waynesville Public Art Commission (WPAC) received seven responses during their informal Request for Proposals (RFP) period for an artist to design, fabricate, and install

seven salamanders on and around Main Street for the public art project-“Salamander Scavenger Hunt”. Ms. Poolton presented a mockup that the recommended artist, Derek Rhodarmer, a Waynesville local, created for Council.

A motion was made by Councilmember Dickson, seconded by Councilmember Boyd, to commission Derek Rhodarmer for the fabrication and installation of a the “Salamander Scavenger Hunt” public art installation on and around Main Street. The motion passed unanimously.

9. Salamander Sponsorship Request

- George Kenney, WPAC Chair, and Candace Poolton, Town Clerk and WPAC staff liaison

Chairman George Kenney reported that the WPAC is offering sponsorship opportunities to local businesses to name one of the seven salamanders that will be a part of the Salamander Scavenger Hunt. He explained that the WPAC would like to give the Town Council the first opportunity to sponsor and name one of the salamanders. Ms. Poolton said WPAC suggested the name “Dolly” for Council’s salamander. Councilmembers Feichter, Sutton, and Boyd expressed interest in personally sponsoring a salamander as well.

A motion was made by Councilmember Sutton, seconded by Councilmember Feichter, for Council to sponsor a salamander for the Salamander Scavenger Hunt public art project in the amount of \$1,000. The motion passed unanimously.

H. COMMUNICATION FROM STAFF

10. Manager’s Report

- Interim Town Manager, Rick Howell

Interim Town Manager Rick Howell reported that the Lead Service Line Inventory Agreement will be presented at the next meeting, and in October Personnel Policy Updates will be presented. He said that the fire station project is still underway, but there may be a refined cost estimate which will not be as favorable as they once thought. Mr. Howell reported that the Wastewater Treatment Plant improvements are still underway. He said the RFQ for engineering services for the water interconnect project has been publicized. He added that Haywood County is considering using \$2 million of their DPS Resiliency grant money towards that project.

11. Town Attorney’s Report

- Town Attorney, Martha Bradley

Ms. Bradley will present on statutory restrictions on zoning September 22nd meeting.

I. COMMUNICATIONS FROM THE MAYOR AND COUNCIL

Councilmember Sutton said he will not be at the next meeting.

Councilmember Dickson asked if staff finalized the contract with Rhino Renewables. Mr. Howell said staff were going to separate the design piece from the construction piece of the agreement so they could get a maximum guaranteed price.

Councilmember Boyd reminded everyone of the Sarge's Annual Dog Walk on September 26th on Main Street.

Mark and Nancy Carden expressed deep appreciation for Council, staff, and the Cemetery Committee for their assistance with acquiring a family cemetery plot.

Councilmember Feichter reminded Council to buy their tickets for the Friends of the DWC fundraiser/soiree. He requested that staff put together a sponsorship of a table for eight at the event, by the Town, to be placed on the next agenda. He said he would like Town staff to have those seats, and Councilmember Boyd agreed to purchase more tickets within reason, if more than eight staff would like to attend.

Councilmembers Feichter and Boyd agreed to interview the Waynesville Housing Authority Applicant next week.

Interim Town Manager Rick Howell reminded Council that it will be Public Power Week October 4th-10th.

Councilmember Dickson reminded everyone that on November 7th there will be an Energy Fair put on by the Environmental Sustainability Board and Environmental Action Committee at the Rec Park.

J. ADJOURN

A motion was made by Councilmember Dickson, seconded by Councilmember Feichter, to adjourn at 7:35pm. The motion passed unanimously.

ATTEST:

Gary Caldwell, Mayor

Rick Howell, Interim Town Manager

Candace Poolton, Town Clerk

**TOWN OF WAYNESVILLE TOWN COUNCIL
REQUEST FOR COUNCIL ACTION
Meeting Date: September 22, 2026**

SUBJECT: Appointment to the Waynesville Housing Authority

AGENDA INFORMATION

Agenda Location: Consent Agenda
Department: Administration
Contact: Candace Poolton, Town Clerk/Assistant to the Manager
Presenter: Candace Poolton, Town Clerk/Assistant to the Manager

BRIEF SUMMARY

The Waynesville Housing Authority has one vacancy. Councilmember Feichter, the WHA Director, and WHA Board Chair interviewed Ms. Garnes, and recommend her highly. If appointed, Lorelei Garnes' term would end June 30th, 2029 to serve the remainder of an unexpired term.

MOTIONS FOR CONSIDERATION

Motion to appoint Lorelei Garnes' to the Waynesville Housing Authority

ATTACHMENTS:

MANAGER'S COMMENTS AND RECOMMENDATIONS

**TOWN OF WAYNESVILLE COUNCIL MEETING
REQUEST FOR COUNCIL ACTION
Meeting Date: 09.22.2026**

SUBJECT: Budget Amendment for the Town Council

AGENDA INFORMATION:

Agenda Location: Consent Agenda
Item Number:
Department: Special Appropriations
Contact: Councilmember Jon Feichter
Presenter: Councilmember Jon Feichter

BRIEF SUMMARY: The Town of Waynesville's council is requesting to sponsor the friends of the DWC Downtown Soiree in the amount of \$5,000.

MOTION FOR CONSIDERATION: Approval of Budget Amendment

FUNDING SOURCE/IMPACT: Fund Balance



Ian Barrett, Finance Director

09.16.2026

Date

ATTACHMENTS:

MANAGER'S COMMENTS AND RECOMMENDATIONS:

Ordinance No. O-41-26

Amendment No. 9 to the 2026-2027 Budget Ordinance

WHEREAS, the Town Council of the Town of Waynesville wishes to amend the 2026-2027 Budget Ordinance.

NOW, THEREFORE, BE IT ORDAINED by the Town Council of the Town of Waynesville that the 2026-2027 Budget Ordinance be amended as follows:

General Fund:

Increase the following appropriations:

Special Appropriations-Donations/ Sponsorship	\$5,000
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Decrease the following appropriations:

General Fund Balance	\$5,000
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Adopted this 22nd day of September 2026.

Town of Waynesville

Gary Caldwell
Mayor

Attest:

Candace Poolton
Town Clerk

Approved As To Form:

Martha Sharpe Bradley
Town Attorney

**TOWN OF WAYNESVILLE COUNCIL
REQUEST FOR COUNCIL ACTION
Meeting Date: September 22, 2026**

SUBJECT: Call for a public hearing on October 13th to consider an application to designate 437 Boundary St as a Local Landmark.

AGENDA INFORMATION:

Agenda Location: Consent Agenda
Item Number:
Departments: Development Services, Fire Department
Contact: Alex Mumby, Land Use Administrator
Presenter: Alex Mumby, Land Use Administrator

BRIEF SUMMARY:

Staff received an application from Shannon and Sherry Morgan to designate their home at 437 Boundary Street (PIN 8615-48-7971) as a Local Landmark. The designation of a local landmark provides the owner with a 50 percent reduction in their property taxes in return for any alterations to the property requiring a certificate of appropriateness from the Town of Waynesville Historic Preservation Commission. The Historic Preservation Commission voted unanimously to recommend the property for nomination on September 2nd, 2026. State Historic Preservation Office staff will also provide comment prior to the hearing.

The subject property is currently located within the Spread Out Historic District which is listed on the National Register of Historic Places. The national designation protects properties in the district from being affected by projects funded with federal tax dollars as well as making Historic Tax Credits available to property owners for renovations. Additional designation as a local landmark will provide the Town with oversight over renovations of the property (certificate of appropriateness) and provide a 50% property tax reduction.

MOTIONS FOR CONSIDERATION:

1. Motion to call for a public hearing on October 13th to consider an application to designate 437 Boundary St as a Local Landmark

FUNDING SOURCE/IMPACT:

Designation as a local landmark provides property owners with a 50% reduction in property taxes.

ATTACHMENTS:

- Draft Ordinance
- Public Notice

MANAGER'S COMMENTS AND RECOMMENDATIONS:

Local Landmark Designation Report

Hannah-Graham-Morgan House

Name of Property: Hannah-Graham-Morgan House

Address: 437 Boundary Street, Waynesville, NC, 28786

Current Owners Name: Shannon Morgan and Sherry Lewis Morgan

Mailing Address: P.O. Box 1496, Waynesville, NC 28786

Phone Number: 828-734-4321 **PIN#** 8615-48-7971

The Hannah-Graham-Morgan House, 437 Boundary Street Waynesville NC, constructed in 1897, is one of the oldest contributing buildings to the Historic Spread Out District, which is listed on the National Register of Historic Places. Boundary Street runs between North Main Street and Walnut Street, which served as the gateway into Waynesville from the north. The Hannah-Graham-Morgan house was restored and renovated with the highest level of attention paid to its historic status and architectural integrity, both exterior and interior, by Shannon Morgan and his father Kenneth, who are fourth and fifth generation natives of Haywood County. Examples of their quality historic renovation work on the Hannah-Graham-Morgan House is shown on the attached, "Waynesville North Carolina Design Review Guidelines". Care was taken to restore the home as much as possible, to the original 1897 condition, including the windows and siding.

Historic Background:

Captain William Johnson Hannah (1867-1936), was born in the Cataloochee section of Haywood County, attended Waynesville Academy, Wake Forest College, and NC State University and graduated with a degree in law. His home was constructed around 1897 of lumber taken from 1,800 acres of timber land he owned in Cataloochee. Hannah purchased the half-acre lot on the north side of Boundary Street for \$200 in February 1897 from David S. Gudger (Deed 9/477). The following year he commanded Haywood County National Guard Group 4, known as the "Richland Rifles," during eleven months of active service during the Spanish American War. Following the war, he was appointed judge advocate general on the staff of Governor Charles B. Aycock, served one term as Waynesville's town attorney, and was elected to a term in the North Carolina State Senate. The Morgan's are only the fourth family to have owned the home. After Hannah it was owned by James-Perry and Meta Dicus, in the 1930's through the 50's. James was the tax collector for Haywood County until he passed from a heart attack and Meta took his place. Elsie Graham owned the house from the second half of the twentieth century until the Morgan's purchased it in 2010.

Assessment:

Built for Captain William J. Hannah, the Hannah-Graham House is a two-story, three-bay, frame I house with a large two-story rear ell and Italianate detailing. A one-story shed-roof extension abuts a similar two-story extension at the rear of the main block, with the ell projecting beyond. The weatherboard central-hall house rests on a brick foundation and features an asphalt-shingle side gable roof with cornice returns, two-interior brick chimneys, one-story hip-roof wraparound front porch, and an engaged two-tiered side porch on the ell. The windows are two-over-two double-hung sash with a one-story polygonal bay located under the porch at the east end of the main block of the house, and most windows are original glass. Victorian Italianate scroll brackets and a matchboard frieze enliven the eaves, cornice and gable ends of the main block as well as the wraparound porch. The porch is supported by turned posts with decorative cutout brackets and a balustrade with simple square balusters. Every Victorian corbel and decorative trim is still in excellent condition.

The interior of the house is original heart pine in every room, still in excellent condition and the walls are bead-board and sheetrock. The lights still have pull strings and the five paneled doors are framed by wide, symmetrical moldings with corner blocks. An original glass-paned entry door leads to a central hall, which contains a staircase with a square chamfered newel post. Twin brick chimneys flank the hall and their fireplaces include mirrored over mantels and cast-iron coal grates. Antique Victorian chandeliers have been added in every room.

A rare example of an original cast iron fence, dating back to the 1800's—manufactured in Ohio—borders the property on Boundary and Beech streets.

Pictures beginning in 1897, the year the house was built, throughout the years and how it looks today are attached. Behind the house, Hannah built a carriage house, show on some of the pictures. The Morgan's built a new carriage house where that one once stood.

Supporting documentation

1. Digital photographs that clearly show overall property condition.

Photographs attached and sent electronically to the Local Government Coordinator.

2. A sketch floor plan of the building. It does not have to be of draftsman quality or exactly to scale, but should clearly show arrangement of spaces and their relationship to one another. Floor plans may be drawn by hand with a ruler and legible printing or may be created with graphics or drafting software.

Floor plan attached

3. Site plan attached

4. Tax map and property record card attached

5. Bibliography

A. William Hannah Family Records

B. NRHP-Spread Out Historic District 2010

C. The Historic Spread Out District of Waynesville NC

Ann D. Melton and B. Alex McKay

Privately Published 2018



Search Results Layers

Results List

Details

View Tax Card (taxhandler.ashx?id=8615-48-7971)

LEWIS, SHERRY E
MORGAN, SHANNON D
PO BOX 1496
WAYNESVILLE, NC 28786-1496

PIN:	Acct#:
8615-48-7971	214915
Legal Ref 1:	Add Ref 1:
793/2223 (DeedReference.aspx?target='793/2223')	A05/577
Legal Ref 2:	Add Ref 2:
	D087/450

Acreage
0.44 AC

Tax Information		Tax Bill	
Land:	\$45,500	Tax Year:	2025
Building:	\$364,800		\$2415.65
Market:	\$410,300	Tax Year:	2024
Deferred:	\$0		\$2415.65

Total
Assessed: \$410,300

Sale Info

Price: \$0
Date: 11/24/2010

Additional Information

Address: 437 BOUNDARY ST WAYNESVILLE
NC 28786

Subdivision:

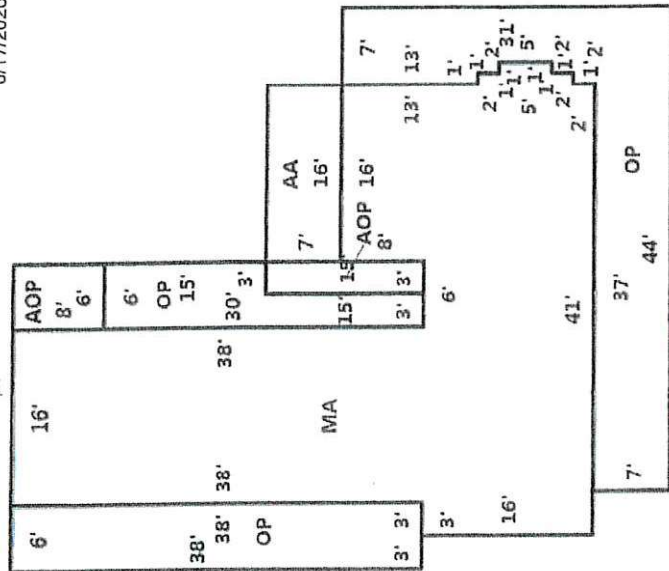
Year Built: 1900

Heated Area: 3017

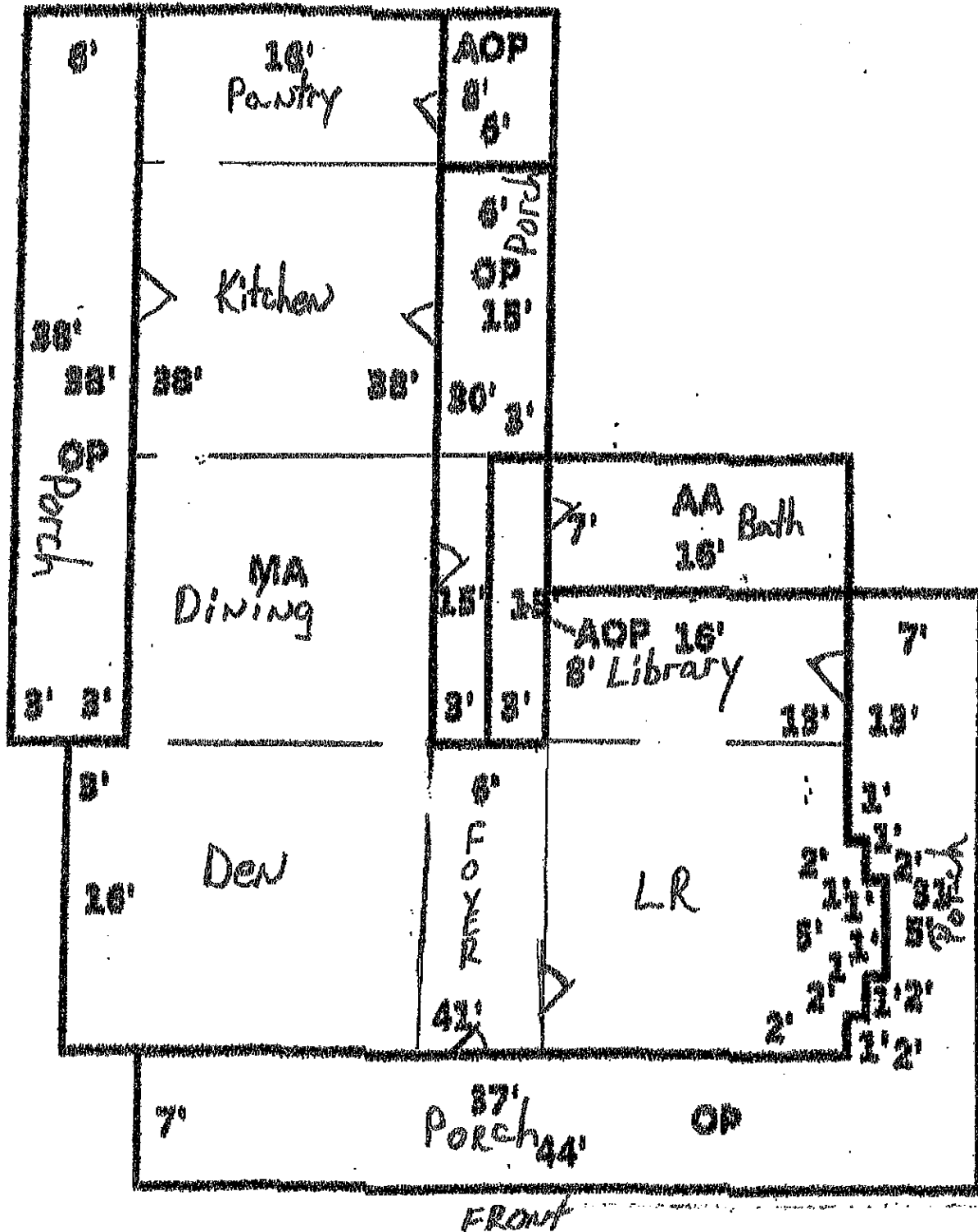
Building Desc: DWELLING DWELLING

Buffer



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Back

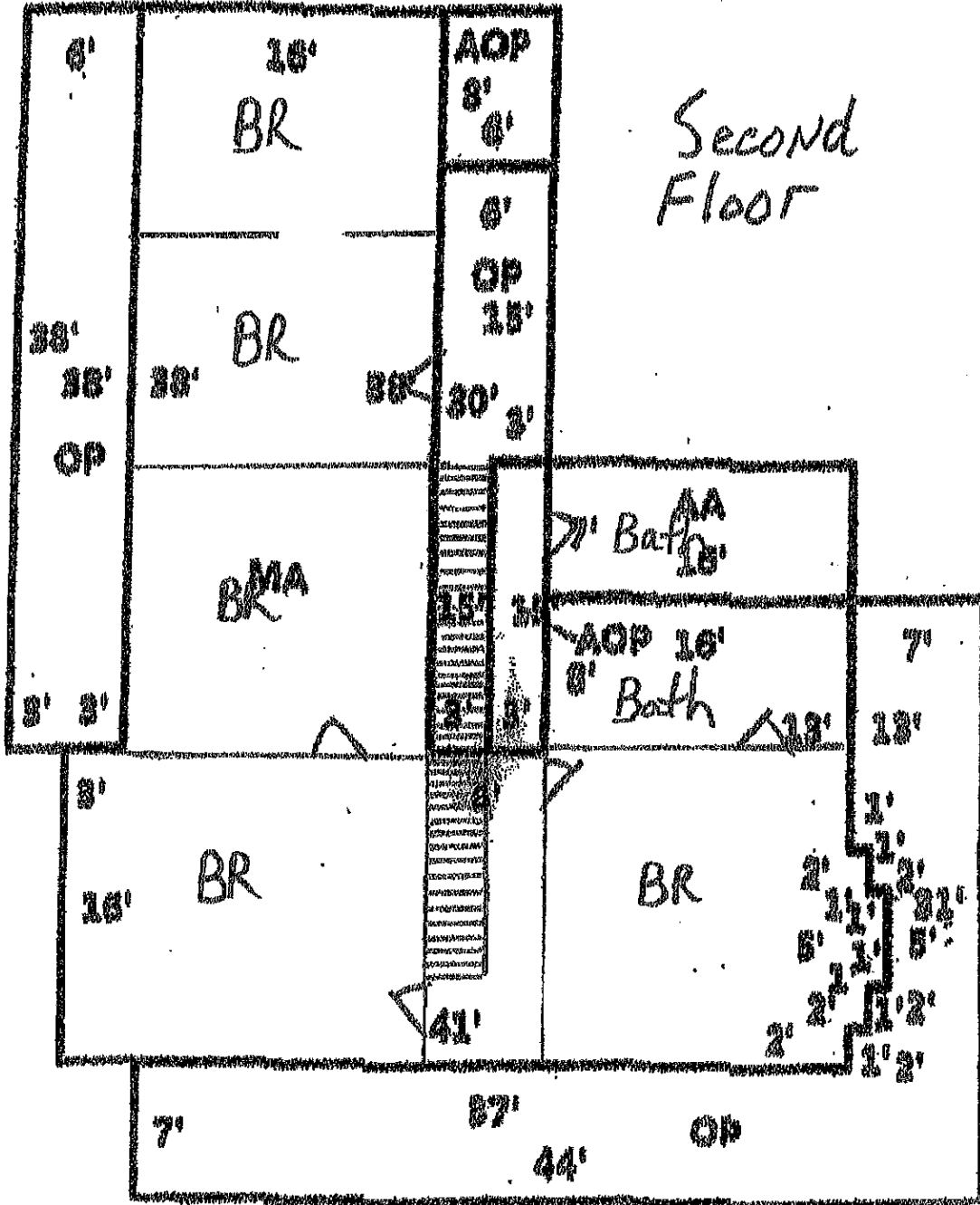


4400

Boundary St.

Back

Second Floor



Front

Aug 24 1917

16

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August 10, 1922.

GRESHAM-HANNAH.

II

One of the prettiest weddings of the season was solemnized Thursday afternoon at the Anchorage, when Miss Lora Hannah and Mr. T. Manly Gresham, of Greenville, S. C., pledged their troth.

The beautiful home of Captain William J. Hannah was never more attractive than in its bridal decorations. A color scheme of pink and white was carried out throughout the lower floor which was thrown open to the wedding guests. Festoons of graceful climatic and ferns formed a lovely background for the pink flowers which gave the note of color. In the hall, pink dahlias were used most effectively in paces and on the stair, which was twined with green, while the note of pink was further carried out in the parlor where the ceremony was performed before an improvised altar, formed with stately columns topped with graceful baskets of pink gladioli.

An artistic musical program, rendered just before the ceremony, included three songs: I Love You Truly, At Dawning, and O Promise Me, sung by Miss Ruth Smith of Gainesville, Georgia. Miss Katherine Sutphen of New York accompanied her and played the Wedding March from Lohengrin to herald the coming of the bridal party. Miss Elizabeth McNeill of Lynchburg, South Carolina, was maid of honor. She wore a becoming gown of imported old blue silk and carried an arm bouquet of Ophelia roses showered with valley lilies. Dorothy Lane was flower girl and her girlish charm was enhanced by a dainty frock of white lace. The bride entered with her uncle, Captain Hannah, by whom she was given in marriage. She wore a handsome suit of midnight blue tricotine with waist of gray Spanish lace and georgette, squirrel choker, and accessories of

tre"

gray. Her corsage was of bride's roses and valley lilies, and her black velvet hat with trimmings of gray and silver lent the final touch needed to complete the picture of stately beauty which she presented. The groom was attended by Mr. Lee Allen of Hendersonville as best man.

Immediately after the ceremony a reception was held. Receiving the guests at the door were Misses Cornelia Bell and Robena Miller. Misses Georgia Miller and Lois Harold presided at the punch table, while Men. J. P. Swift and Mrs. Harold received in the library where the lavish display of gifts of silver, cut glass, china and linen attested the popularity of the bride and groom. The guests were invited into the dining room by Mrs. B. H. Abbott and Mrs. Carl M. Allen, both of Columbia, South Carolina, and a refreshing ice course was served by Misses Carrie Smith of Gainesville, Georgia, Laura Hawkins of Jacksonville, Florida, Alice Harold, Margaret Blackwell, and Mary Tucker. The wedding table was a thing of beauty. It had for its center the wedding cake which was artistically embossed to form a basket filled with pink roses, the handle made graceful with delicate tracery of green and pink rose buds intertwined. Unshaded pink tapers in silver candelabra and bonbonnières of pink and white mints completed the table decorations while a shower of sweet peas tied in streamers of white from the electrolux softened the light and lent an added touch of grace. The cream was served in individual baskets of cake embossed in pink and white sweet peas.

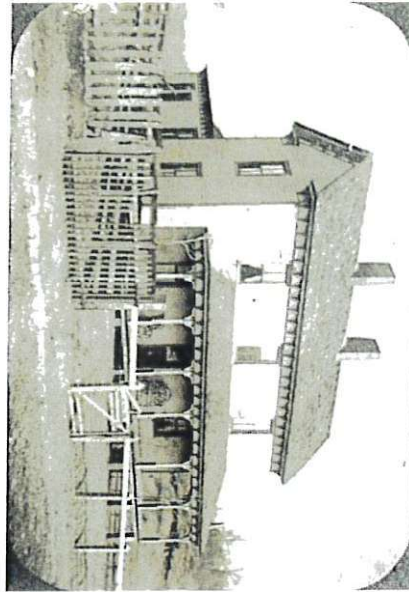
Among the out-of-town guests were: Mrs. Anna Christian, Messrs. Dalton, F. N. Ward, Granberry Ward, W. A. Marvin, Ben Jumper, Cox and Robinson of Asheville; Mrs. A. M. Waldron of Brooklyn, N. Y., Mrs. W. B. Guinieran of Columbia, S. C., Mr. and Mrs. Frank Gresham and Mr. and Mrs. Burdette of Greenville, S. C.

OUT.

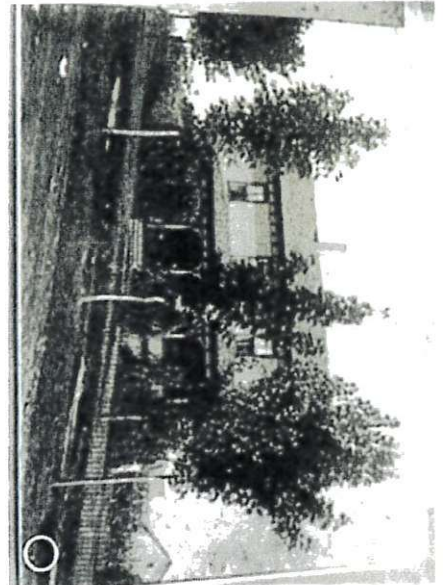
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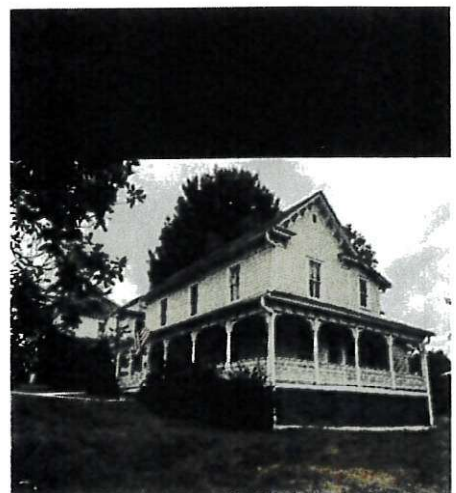
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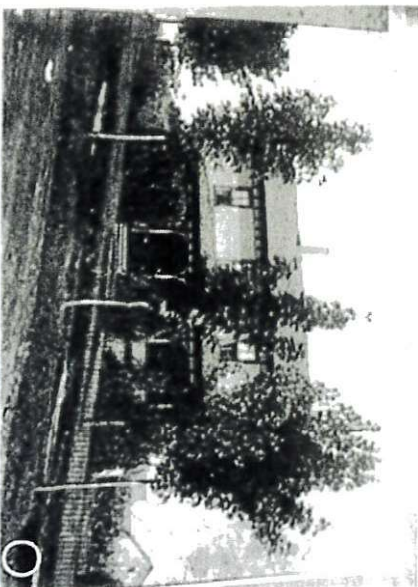
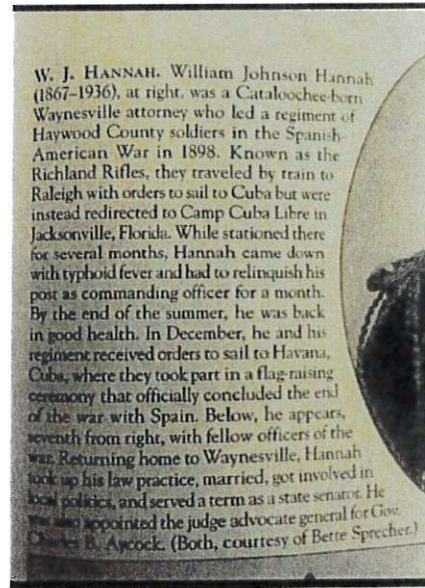
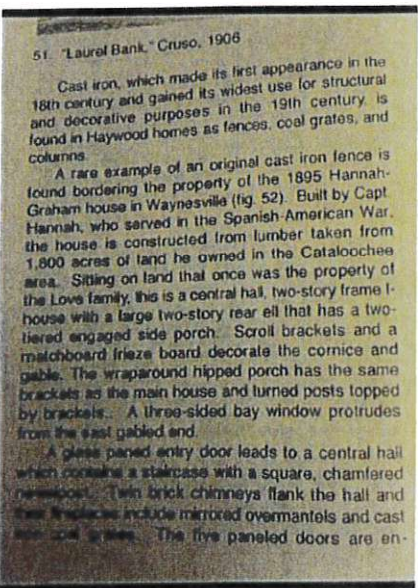
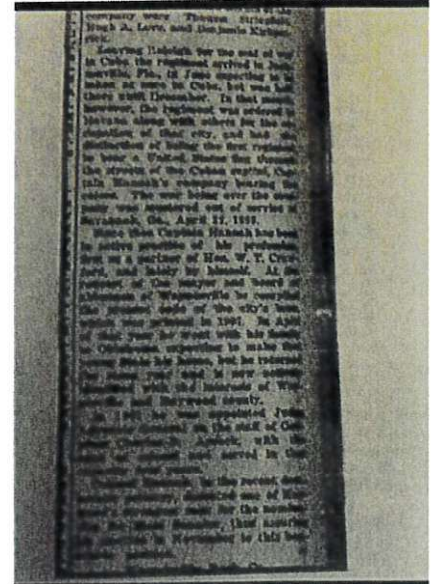
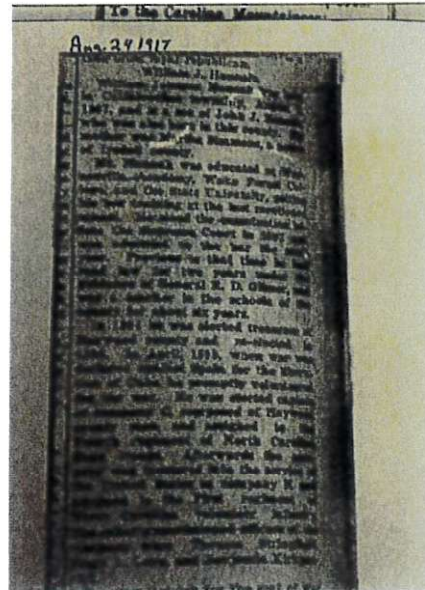
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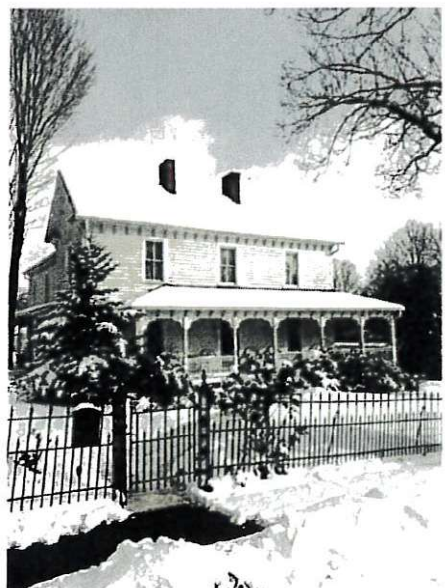
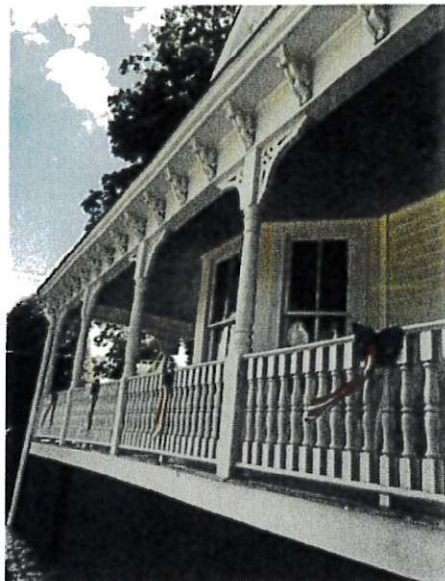
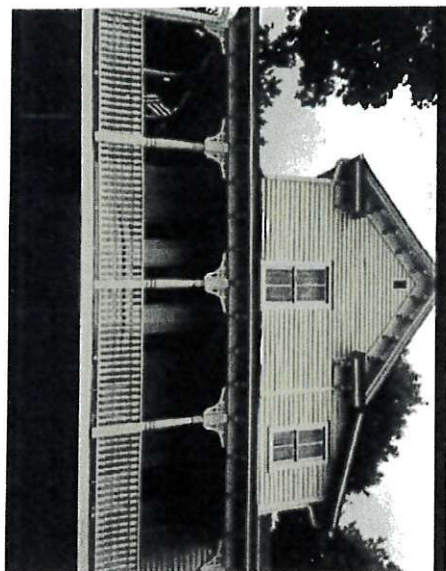


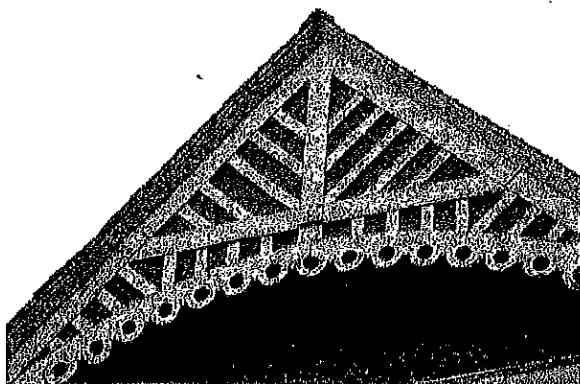
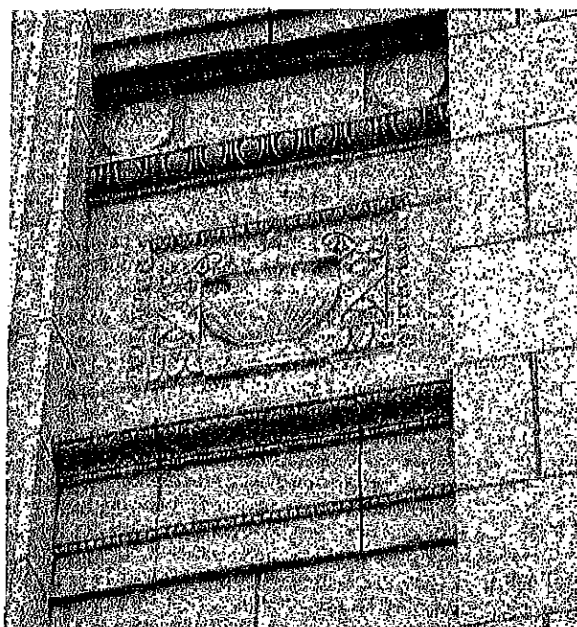












WAYNESVILLE, NORTH CAROLINA

DESIGN REVIEW GUIDELINES

THOMASON AND ASSOCIATES

PRESERVATION PLANNERS

NASHVILLE, TENNESSEE

Thomason & Associates
PRESERVATION PLANNERS

https://www.themountaineer.com/life/the-honor-of-the-national-register/article_4370f52c-5a9c-11eb-8227-9f5cfbe49b24.html

The Honor of The National Register

By Ann Melton & Lorna Sterling
Jan 24, 2021

1 of 2



124 YEARS OLD — Captain William Johnson Hannah and his wife, Josephine, lived in the house that he built in 1897. The Register.

In 1897, Captain William Johnson Hannah looked with satisfaction at the house under construction on the half-acre lot he had purchased on Boundary Street for \$200 in February. The land had once belonged to the Love family, who had founded

Waynesville.

Built with lumber taken from 1,800 acres of timber land the Captain owned in Cataloochee, the frame house was two stories high with a rear ell. It was surrounded by a cast iron fence made in Ohio. The Captain was particularly pleased with the work of the craftsmen who were embellishing the house with Italianate detailing, scroll brackets and a matchboard frieze decorating the cornice and gables. A lovely three-sided bay window protruded from the east gabled end. The Captain thought the wraparound hipped porch with its turned posts and scroll brackets would be a fine spot to sit and watch the bustling growing downtown Waynesville.

Through the glass-paned entry door he could see the central hall and staircase, graced with a solid square newel post. Twin brick chimneys flanked the hall and, come the winter, he knew he would be warmed by the fireplaces topped with splendid mirrored overmantels and cast iron grates.

Little did Captain Hannah know that over 100 years later, his house at 437 Boundary St. would be known as the Hannah-Graham-Morgan House, and that it would be listed on the National Register of Historic Places — the official list of the Nation's historic places deemed worthy of preservation.

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His home joins 13 other Waynesville properties that have been placed on the Register. Our town also has three districts on the National Register, which is amazing for a town as small as Waynesville.

To be nominated for this national recognition, a property must meet the National Register Criteria for Evaluation. This involves examining its age, its significance and its integrity.

Is the property old enough to be considered historic (generally at least 50 years old) and does it still look much the way it did in the past? And is the property associated with events, activities, or developments that were important in the past? With the lives of people who were important in the past? With significant architectural history, landscape history, or engineering achievements? Does it have the potential to yield information through archeological investigation about our past?

Captain William Johnson Hannah was born in 1867 in the Cataloochee section of Haywood County. In 1898, a year after he had constructed his house, he commanded Haywood County National Guard Group 4, known as the Richland Rifles (a moniker that referred to Richland Creek, which flows through Waynesville) during 11 months of active service during the Spanish-American War. This company of Haywood men received orders on April 25, 1898, to join the United States Army and head to Cuba.

Hannah kept a diary of that year's service, noting military matters as well as tender affections toward his future wife, Josephine.

Days after President William McKinley signed the United States' declaration of war with Spain, Hannah wrote, "There is great excitement in regard to the war ..."
Hannah led the Richland Rifles, Thomas Stringfield served as first lieutenant and Hugh Love was second lieutenant.

Hannah's company was finally sent to Jacksonville, Florida, where the men pitched tents and awaited orders. In June, Hannah came down with typhoid fever. Bedridden and barely able to leave his tent for days at a time, he relinquished his command and rested at a local physicians' home. A month later, Hannah finally recovered at Camp Cuba Libre.

On Dec. 6, Haywood's Company H received orders to make haste for Havana. On Dec. 12, the Richland Rifles would be among the first North Carolina regiments to march through Havana as Cubans cheered them in the streets. On Jan. 1, Hannah took his company with the 7th Army Corps and raised the United States flag over Masso Castle and took formal possession of the island of Cuba.

Following the war, he was appointed judge advocate general on the staff of Governor Charles B. Aycock, served one term as Waynesville's town attorney and was elected to a term in the state senate.

He died in 1936 and is buried in Green Hill Cemetery.

Waynesville's Historic Preservation Commission, together with the State Historic Preservation Office, assists owners interested in listing their properties to navigate the process of nomination. Official National Register nomination forms can be downloaded or obtained from the State Historic Preservation Office.

National Register Bulletins also can provide guidance on how to document and evaluate certain types of properties. Sample nominations provide additional useful information. Proposed nominations are reviewed by the state's historic preservation office and the state's National Register Review Board.

Completed nominations, with certifying recommendations, are then submitted by the state to the National Park Service in Washington, D.C., for final review and listing by the Keeper of the National Register of Historic Places.

Listing in the National Register of Historic Places provides formal recognition of a property's historical, architectural or archeological significance based on national standards used by every state. The property becomes part of the National Register Archives, providing the public with a wealth of research information. Listing on the Register also provides opportunities for preservation incentives, such as federal preservation grants for planning and rehabilitation, federal investment tax credits, preservation easements to nonprofit organizations, international building code fire and life safety code alternatives, and possible state tax benefit and grant opportunities.

Under Federal Law, the listing of a property in the National Register places no restrictions on what an owner may do with their property up to and including destruction, unless the property is involved in a project that receives Federal assistance, usually funding or licensing/permitting. Nor does National Register listing automatically invoke local historic district zoning or local landmark designation.

For more information on the Waynesville properties on the National Register, or the process of nomination, contact the Waynesville Historic Preservation Commission of the Town of Waynesville Development Department.

Ann Melton and Lorna Sterling are members of the Historic Preservation Commission





United States Department of the Interior
National Park Service

**National Register of Historic Places
Registration Form**

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Spread Out Historic District

other names/site number North Waynesville Addition

2. Location

street & number Roughly bounded by North Main Street, Walnut Street, and Beech Street not for publication N/A
city or town Waynesville vicinity N/A
state North Carolina code NC county Haywood code 087 zip code 28712

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this X nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register Criteria. I recommend that this property be considered significant _____ nationally _____ statewide X locally. (_____ See continuation sheet for additional comments.)

Signature of certifying official

Date

State or Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. (_____ See continuation sheet for additional comments.)

Signature of commenting or other official

Date

State or Federal agency and bureau

4. National Park Service Certification

I, hereby certify that this property is:

- _____ entered in the National Register
- _____ See continuation sheet.
- _____ determined eligible for the National Register
- _____ See continuation sheet.
- _____ determined not eligible for the National Register
- _____ removed from the National Register
- _____ other (explain): _____

Signature of the Keeper

Date of Action

Spread Out Historic District
Name of Property

Haywood County, North Carolina
County and State

5. Classification

Ownership of Property

Property

(Check as many boxes as apply)

- ☒ private
☐ public-local
☐ public-State
☐ public-Federal

Category of

(Check only one box)

- ☐ building(s)
☒ district
☐ site
☐ structure
☐ object

Number of Resources within Property

(Do not include previously listed resources in the count)

Contributing	Noncontributing	
67	25	buildings
0	0	sites
0	3	structures
0	0	objects
67	28	Total

Name of related multiple property listing

(Enter "N/A" if property is not part of a multiple property listing.)

N/A

Number of contributing resources previously listed in the National Register

N/A

6. Function or Use

Historic Functions

(Enter categories from instructions)

DOMESTIC/single-family dwelling
DOMESTIC/multiple dwelling
DOMESTIC/secondary structure
RELIGION/religious facility
RELIGION/church-related residence

Current Functions

(Enter categories from instructions)

DOMESTIC/single-family dwelling
DOMESTIC/multiple dwelling
DOMESTIC/secondary structure
RELIGION/religious facility
RELIGION/church-related residence
COMMERCE/professional

7. Description

Architectural Classification

(Enter categories from instructions)

Colonial Revival
Bungalow/Craftsman
Other: Minimal Traditional
Other: Ranch
Queen Anne
Other: Period Cottage
Mission Revival

Materials

(Enter categories from instructions)

foundation Stone
Brick
Concrete block
roof Asphalt
Metal
walls Wood/weatherboard
Wood/shingle
Wood/board-and-batten
Stone
Brick
Synthetics
other _____

Narrative Description

(Describe the historic and current condition of the property on one or more continuation sheets.)

Spread Out Historic District
Name of Property

Haywood County, North Carolina
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "X" in one or more boxes for the criteria qualifying the property for National Register listing)

☐ A Property is associated with events that have made a significant contribution to the broad patterns of our history.

☐ B Property is associated with the lives of persons significant in our past.

☒ C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.

☐ D Property has yielded, or is likely to yield, information important in prehistory or history.

Criteria Considerations

(Mark "X" in all the boxes that apply.)

Property is:

☐ A owned by a religious institution or used for religious purposes.

☐ B removed from its original location.

☐ C a birthplace or a grave.

☐ D a cemetery.

☐ E a reconstructed building, object, or structure.

☐ F a commemorative property.

☐ G less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions)

Architecture

Period of Significance

Ca. 1895 - 1958

Significant Dates

N/A

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

Phillips, D. V. - builder

Narrative Statement of Significance

(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

Bibliography

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS):

☐ preliminary determination of individual listing (36 CFR 67) has been requested.

☐ previously listed in the National Register

☐ previously determined eligible by the National Register

☐ designated a National Historic Landmark
recorded by Historic American Buildings Survey

☐ recorded by Historic American Engineering
Record # _____

Primary Location of Additional Data

☒ State Historic Preservation Office

☐ Other State agency

☐ Federal agency

☐ Local government

☐ University

☒ Other

Name of repository:

Haywood County Library, Waynesville, NC

Pack Memorial Library, Asheville, NC

Spread Out Historic District
Name of Property

Haywood County, North Carolina
County and State

10. Geographical Data

Acreage of Property approx. 25 acres

UTM References

(Place additional UTM references on a continuation sheet)

1	17	320430	3929720
	Zone	Easting	Northing
2	17	319970	3929250

3	17	319760	3929430
	Zone	Easting	Northing
4	17	319930	3929900
<u>See continuation sheet</u>			

Verbal Boundary Description

(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification

(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title Clay Griffith

organization Acme Preservation Services, LLC date August 6, 2010

street & number 825-C Merrimon Ave., #345 telephone (828) 281-3852

city or town Asheville state NC zip code 28804

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A USGS map (7.5 or 15 minute series) indicating the property's location.

A sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional Items

(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of the SHPO or FPO.)

name multiple owners

street & number _____ telephone _____

city or town _____ state _____ zip code _____

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reduction Project (1024-0018), Washington, DC 20503.

United States Department of the Interior
National Park ServiceNational Register of Historic Places
Continuation SheetSection number 7 Page 5Spread Out Historic District
Waynesville, Haywood County, NC**Garage, ca. 2000****Non-contributing building**

One-story, one-bay, frame garage with a metal roof, plywood siding, and a metal roll-up door.

House, 407 Boundary Street, ca. 1895**Contributing building**

This asymmetrically massed, two-story, hip-roof, frame dwelling rests on a brick foundation and features two-story polygonal bays on the east and west elevations. The house exhibits a decorative front gable, interior brick chimney, and a one-story rear addition. The house was altered with vinyl siding and one-over-one replacement windows in the late twentieth century. An attached, one-story, hip-roof porch on turned wood posts extends the full width of the façade and wraps around the east side, abutting the projecting polygonal bay. A decorative gable marks the center entrance bay, which is accessed by concrete steps with brick cheek walls. The single-leaf entry door consists of a large single light over three panels.

John and Lura Davis lived here in the late 1950s and 1960s. John Davis was a salesman with Henry Davis Used Cars, and Lura Davis was a nurse at the Owen-Smith Clinic.

Garage/Apartment, ca. 1970**Non-contributing building**

A two-story, two-bay garage with a second-story apartment is located northwest of the house. The concrete block building features an asphalt-shingle side-gable roof, vinyl siding on the second story, and paired one-over-one double-hung wood sash windows. The slightly recessed garage bays are accessed through glazed-and-paneled wood roll-up doors and sheltered by the overhanging second story. A single-leaf five-panel wood door to the east provides access to the second-story apartment.

Hannah-Graham House, 437 Boundary Street, ca. 1897**Contributing building**

Built for Captain William J. Hannah, the Hannah-Graham House is a two-story, three-bay, frame I-house with a large two-story rear ell and Italianate detailing. A one-story shed-roof extension abuts a similar two-story extension at the rear of the main block, with the ell projecting beyond. The weatherboarded central-hall house rests on a brick foundation and features an asphalt-shingle side gable roof with cornice returns, two-interior brick chimneys, one-story hip-roof wraparound front porch, and an engaged two-tiered side porch on the ell. The windows are two-over-two double-hung sash with a one-story polygonal bay located under the porch at the east end of the main block of the house. Scroll brackets and a matchboard frieze enliven the eaves and gable ends of the main block as well as the wraparound porch. The porch is supported by turned posts with decorative cutout brackets and a balustrade with simple square balusters. A rare example of an original cast iron fence—manufactured in Ohio—borders the property on Boundary and Beech streets.

Captain William Johnson Hannah (1867-1936), a lawyer born in the Cataloochee section of Haywood County, constructed the house around 1897 of lumber taken from 1,800 acres timber land he owned in the county. Hannah purchased the half-acre lot on the north side of Boundary Street for \$200 in February 1897.

United States Department of the Interior
National Park Service

National Register of Historic Places
Continuation Sheet

Section number 7 Page 6

Spread Out Historic District
Waynesville, Haywood County, NC

from David S. Gudger (Deed 9/477). The following year he commanded Haywood County National Guard Group 4, known as the "Richland Rifles," during eleven months of active service during the Spanish-American War. Following the war, he was appointed judge advocate general on the staff of Governor Charles B. Aycock, served one term as Waynesville's town attorney, and was elected to a term in the state senate.⁵ Elsie Graham owned the house in the second half of the twentieth century.

Boundary Street, south side

Dr. Robert & Harriett Stretcher House, 344 Boundary Street, ca. 1936 **Contributing building**

This one-and-a-half story, three-bay, side-gable, brick house features three front gable dormers, exterior brick end chimney, dentil cornice, one-and-a-half story gable-roof ell, and eight-over-eight and six-over-six windows. The single-leaf paneled entry door is flanked by sidelights. The dormers are sheathed with lapped wood siding. A one-story, flat-roof, brick-and-frame wing was added to the west side of the rear ell in the late twentieth century. Three-light windows illuminate the basement. The house sits on an elevated site with a river rock retaining wall running along the sidewalk and east side of the driveway. River rock cheek walls and steps lead from the sidewalk to a flagstone walkway to the concrete steps at the front of the house.

Dr. Robert H. and Harriett Stretcher acquired the property from O. Y. and Lenora Kirkpatrick in October 1935 (Deed 92/118). Dr. Stretcher (1900-1969) came to Waynesville in 1928 with a medical degree from Rush Medical College in Chicago and two years training in Michigan. He also served in the Army. Dr. Stretcher died in 1969, and his wife Harriett lived here until 1992.⁶

Dr. Kenneth & Mae Montgomery House, 368 Boundary Street, ca. 1920 **Contributing building**

Well-detailed one-story, cross-gable, frame bungalow with a river rock foundation and an attached front gable and side-gable wraparound porch. Sheathed with weatherboards, the house features an exterior river rock chimney, purlin brackets, exposed rafter tails, and replacement doors and windows. The porch roofs are supported by battered posts on river rock piers with concrete caps. The solid balustrade of river rock displays eyebrow scuppers. The porch gables are covered with wood shingles and have decorative tie beams supported on a center joist. A substantial gable-roof frame addition was built at the southeast corner of the house in the late twentieth century. The house sits on an elevated site with a river rock retaining wall bordering the sidewalk and driveway. River rock cheek walls flank the concrete steps leading from the sidewalk to the front walkway.

⁵ Curtis W. Wood, Jr., *Haywood County: A Portrait of a Mountain County* (Waynesville, NC: The Historical Society of Haywood County, 2009), 189-190.

⁶ Anderson, 134.

https://www.themountaineer.com/life/waynesville-book-details-history-of-historic-spread-out-district/article_6e572714-637f-11e8-9329-ff6d5adc8cfe.html

Waynesville book details history of Historic Spread Out District

May 29, 2018

Ann Melton and Alex McKay have just released their new book on the historic district of Spread Out.

Information for the book primarily came from extensive research of newspaper articles and from information gathered from when the area was named an historic district more than a decade ago, Melton said.

"The area got its name when the town started growing and people scattered and spread out," she added.

While Melton has written numerous history books, this is McKay's first.

While writing about history may be new, the subject matter is something he's embraced for years.

"One of the things people will probably find most interesting is the Women's Christian Temperance Temple that was planned, but didn't end up being built," said McKay, who meticulously combs through old issues of the Waynesville newspaper to find nuggets of information that is put together with family or building historic information.

"Waynesville is so fortunate to have a young man like Alex who is so knowledgeable about the history of Waynesville and Haywood County and truly cares about preserving it," said Melton. "The museum he has opened in the old courthouse is wonderful, and I hope folks will consider donating to it."

Both authors serve on Waynesville's Historic Preservation Commission, both have been involved in the town's yearly Speakers Series and the Green Hill Cemetery Tour.

McKay has opened a museum on the second floor of the old courthouse that contains unique pieces representing the history of Waynesville. The museum is open every Friday.

The book

The book titled "The Historic Spread Out District" discusses the residential neighborhood between North Main and Walnut streets, and includes Boundary, Mead, Hazel, Cherry and Maple. The book tells about 54 of the historic homes in the focus area.

According to Clay Griffith and the office of Archives and History, the district's historic resources reflect the town's prosperity following the connection of a railroad line in 1883 and periods of growth in the 20th century associated with industrial and economic development in the county that attracted new residents to the area.

This district is the largest and best defined historic residential neighborhood in Waynesville. Its proximity to the courthouse, central business district and railroad made the district a popular place to live for a variety of economic classes.

How the district grew

In the early 20th century, Waynesville began to spread out beyond its 19th century town limits, with a new area of development located north of Boundary Street, thus the name "Spread Out District," according to information in the book.

The district is significant in that it contains so many different architectural styles, including Queen Anne, Colonial revival, Craftsman and Ranch houses, to name a few. The homes in the district were built from 1895-1958 with the youngest, the Champion House, a Ranch style house at 361 Boundary St.

The three oldest houses in the area are at 389 Boundary St. and was built in 1895, the Garrett House at 401 Boundary St., and the Hannah-Graham House at 437 Boundary St., both built in 1897.

Cast Iron, which made its first appearance in the 18th century and gained its widest use for structural and decorative purposes in the 19th century, is found in Haywood houses as fences, coal grates, and columns. A rare example of an original cast iron fence manufactured in Ohio, is found bordering the property of the Hannah-Graham House.

The Waynesville Presbyterian Church located at 462 No. Main St. is also in the Spread Out District. It was built in 1907 and replaced an 1882 Victorian-era frame church on the same site. The book includes detailed interior photographs of the church.

"Historic Spread Out District" is filled with early photographs and maps, as well as photographs of the 54 homes that are featured. It also includes information about three important hotels and boarding houses just outside the Spread Out District - The Maples, The Forsyth Inn and Branner Crest. There are also photographs of Congressman Crawford's home, a magnificent home just outside the district.

Of special interest is the Women's Christian Temperance Union temple that was planned for the corner of Main and Walnut streets where Dr. Sam Stringfield's home is now located at 28 Walnut street.

However, group members were never able to raise the money for the building. The cornerstone is still located on the Stringfield property. The Love heirs donated their land to the Southern Assembly of the W.C.T.U. for the use of their School of Methods and the work of the W.C.T.U.

Both Melton and McKay have worked for many months to compile "The Historic Spread Out District. To purchase a copy of the book, call Melton at 421-7689 or McKay at 246-8528.

SPREAD OUT HISTORIC DISTRICT NATIONAL REGISTER OF HISTORIC PLACES

Waynesville, Haywood County, North Carolina

Key:

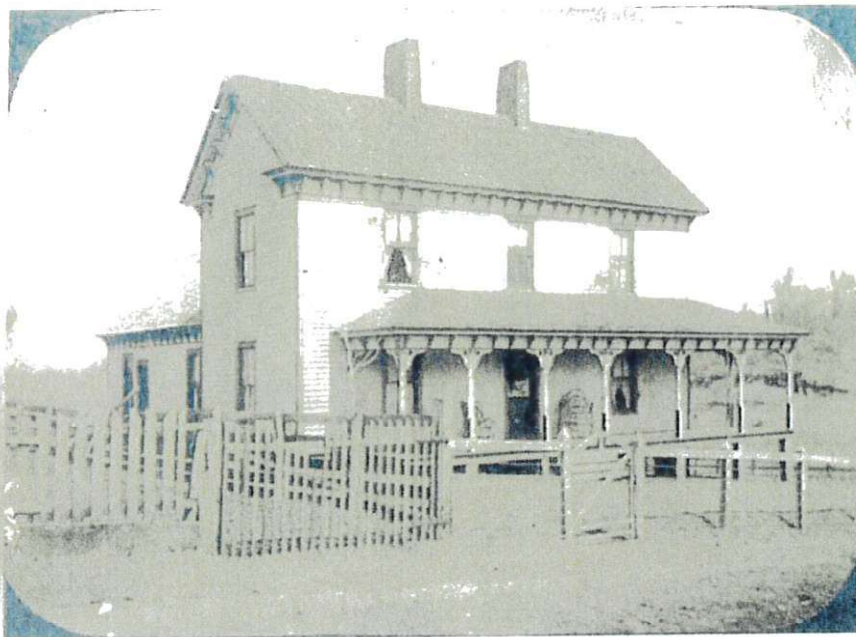
- | | |
|-----------------------------|--|
| Dissect boundary | |
| C. Contributing resource | |
| NC Noncontributing resource | |
| V Vacant parcel | |
| 13 Photo view | |

Contributing status is indicated for primary resources only. See Inventory Test for status of outbuildings.

Labor of love: How the Morgans saved one of Waynesville's oldest homes

By Ann Melton
Jun 13, 2025

1 of 5



ORIGINAL HOME — This photo circa 1897 shows the home shortly after construction by William Hannah, a native of Cataloochee Valley who moved to town, but hauled the lumber for its construction from Cataloochee.

One morning in 2010, Sherry Lewis Morgan, a mortgage lender at a local bank, was checking newly listed homes in Haywood County and came across an old Victorian house in Waynesville she has always admired.

It was run down and shabby, but in her eyes, its former grandeur was hiding just below the surface.

She excitedly called her husband, Shannon Morgan, assistant fire chief for Waynesville at the time. He pulled over to take her call since he was in a town fire truck, and when she gave him the address, he said "I'm looking at it right now." He was serendipitously parked right in front of the house.



Bogart's Rest. & Tavern

Unwind and Dine at the Premier Restaurant in Town - Book Your Table Now





Sherry and Shannon Morgan

CLYDE FIRST BAPTIST CHURCH PRESCHOOL

Registering for the 2025-2026 School Year
for Preschool ages 18 months - Pre-K
and Transitional Kindergarten Program

Come register your child March 18th
from 7:30am-12:30pm

\$50 registration fee for preschool programs
\$100 registration materials fee for Transitional Kindergarten Program
We accept cash or check only

We use the same schedule as Haywood Co. School System.

Call 828-627-2257 for more info
227 Main Street, Clyde, NC 25721

He told her to offer \$1,000 over the asking price with no inspection, which she did, and the house was theirs. Both feel that getting the house was a blessing from God.

The house, located at 437 Boundary Street, is within the Spread Out Historic District of Waynesville.

It was in need of renovations and, after Shannon and his father inspected it, the repairs were mostly cosmetic.

"It could have been eaten up with termites," Shannon stated. "So I immediately called a pest control company. When the guy checked the underside of the house, he told me that he saw where one termite had tried to eat into the wood but since all the heavy timber framing is solid chestnut (not wormy chestnut) all the way to the ceiling rafters the termite didn't stand a chance!"

A week after they bought the house, a man offered the Morgans five times what they paid for it. He wanted to tear it down for the chestnut lumber. They said no.

The Morgans had saved one of the oldest homes in Waynesville, dating to 1897. The house was built by William J. Hannah who brought the lumber by wagon from the 1,800 acres of property he owned in Cataloochee. When doing yard work, Shannon still finds horse shoes from the horses pulling all those many wagon-loads of lumber to Waynesville.

The Morgans are only the fourth family to have owned the house. After William Hannah, it was owned by James Perry and Meta Dicus, then Elsie Rouser Graham, and now the Morgans.

Peeling back the layers

The exterior of the house is popular lap siding, the interior is bead-board, and the floors are heart pine — all are original. Every Victorian corbel and decorative trim was still in excellent condition. The house was renovated by preserving the historic details, leaving the windows and siding as they were when William Hannah built the house in 1897.



THE HANDY MEN — Shannon Morgan and his father, Kenneth, renovated the house together over many years.

Shannon and his father, Kenneth Morgan, renovated the house together. Shannon was full-time with the fire department, so the work had to be done in the evenings.

But it was a special time for Shannon to spend time with his dad. It's been the gift that keeps on giving, as they are still enjoying projects together on this Victorian house 15 years after they began in 2010.

Shannon learned all about construction from his father growing up, helping him build three houses from the ground up. Shannon's grandfather, Austin Morgan, was also a builder at the former Lee Industries plant, specializing in furniture construction.



The first thing the Morgan men had to do was to work on the porch, which was falling down.

And what was Sherry doing while Shannon and his dad were hard at work restoring the house? She was hard at work designing the interior of the home in her mind and searching antique shops for treasures. For example, one of the mantles came from an old home in New Orleans, and three windows came from a church in England.

Nothing could keep her from buying amazing pieces, even when one of the bedroom suites had to be hoisted up to the second floor, by off duty firemen, because it was too large to get up the stairs. She was also very excited to buy at auction Hannah's bed, two of his rocking chairs and his desk.

One of the really special things about the property is the wonderful cast iron fence which is in front of the house. Cast iron, which made its first appearance in the 18th century and gained its widest use for structural and decorative purposes in the 19th century, is found in fences, coal grates, and columns. A rare example of an original cast iron fence manufactured in Ohio is found bordering the property of this house!

Original family.

William Hannah was born in Cataloochee on August 3, 1867, attended Waynesville Academy, Wake Forest College, and the State University graduating with a degree in law. In February 1897, William Hannah purchased the half-acre lot on the north side of Boundary Street for \$200 from David S. Gudger.

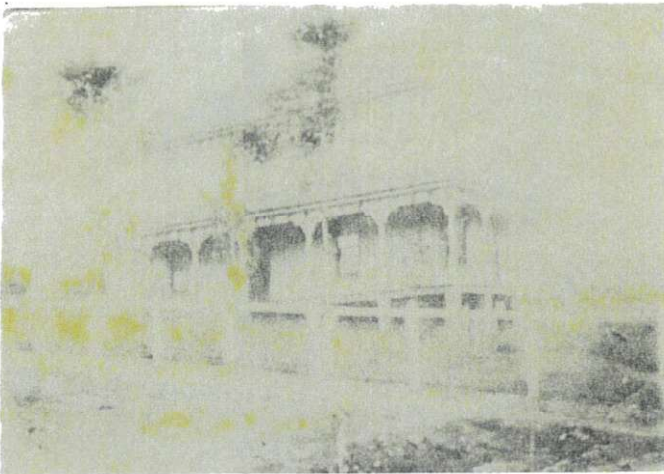


ORIGINAL OWNERS — William Hannah, who was born in Cataloochee, went on to become a judge, attorney and state senator after serving in the Spanish American War. Also pictured is his wife, Josephine.

Morgan house william hannah and wife.jpg

The following year, he commanded Haywood National Guard Group 4 known as the "Richland Rifles" — a moniker that referred to Richland Creek, which flows through Waynesville — for 11 months of active service during the Spanish American War. This company of Haywood men received orders on April 25, 1898, to join the United States Army and head to Cuba. Hannah kept a diary of that years' service noting military matters, as well as tender affections toward his future wife, Josephine.

The Richland Rifles were among the first North Carolina regiments to march through Havana as Cubans cheered them in the streets. Captain Hannah took his company with the 7th Army Corps and offered to raise the United States flag over Masso Castle and took formal possession of the island of Cuba.



The Hannah Graham Morgan house circa 1900.

Following the war, he was appointed judge advocate general on the staff of Governor Charles B. Aycock. He later served one term as Waynesville's town attorney and was elected to a term in the state senate.

In September of 1899, he married Josephine Tucker of Tennessee.

Architecture

Sitting on land that once was the property of the Robert Love family, this is a central-hall, two-story frame L-shaped house with Italianate detailing. The house has scroll brackets, and a matchboard frieze board decorates the cornice and gable.

The wraparound hipped porch has the same brackets as the main house and turned posts topped by brackets. A three-sided bay window is on the east gabled end.

A glass-paned entry door leads to a central hall, which contains a staircase with a square, chamfered newel post. Twin brick chimneys flank the hall and their fireplaces include mirrored overmantels and cast-iron coal grates. The five-paneled doors are framed by wide, symmetrical moldings with corner blocks.

Behind the house Hannah had built a carriage house, which had been torn down. The Morgans built a new carriage house where that one once stood.

The Hannah Graham Morgan house is a Haywood County treasure. Shannon and Sherry Morgan who are fifth generation Haywood residents are to be congratulated on a job well done.

Ann Melton is a local historian and author. She has researched and written 17 books on the historic districts, places and homes of Waynesville and surrounding areas. To purchase any of Melton's books, contact her at 828-421-7689.

PAYMENT SUMMARY RECEIPT

TOWN OF WAYNESVILLE
16 S MAIN ST

DATE: 07/16/26 CUSTOMER#:
TIME: 10:59:16
CLERK: 2044ecou

RECPT#: 3353814 PREV BAL: 200.00
TP/YR: P/2027 AMT PAID: 200.00
BILL: 3353814 ADJSTMNT: .00
EFF DT: 07/16/26 BAL DUE: .00
Misc Cash Receipts

-----TOTALS-----

PRINCIPAL PAID: 200.00
INTEREST PAID: .00
ADJUSTMENTS: .00
DISC TAKEN: .00

AMT TENDERED: 200.00
AMT APPLIED: 200.00
CHANGE: .00

PAID BY: Sherry Local Landmark
PAYMENT METH: CHECK
PAYMENT REF: 6682

TOT PREV BAL DUE: 200.00
TOT BAL DUE NOW : .00

**TOWN OF WAYNESVILLE COUNCIL MEMBERS
REQUEST FOR COUNCIL ACTION
Meeting Date: September 22, 2026**

SUBJECT: Public Power Week

AGENDA INFORMATION:

Agenda Location:	Proclamation
Item Number:	
Department:	Administration
Contact:	Candace Poolton
Presenter:	Mayor Gary Caldwell

BRIEF SUMMARY: October 4th-10th, is Public Power Week. This proclamation recognizes North Carolina's more than 70 public power cities and towns, including Waynesville, and their exceptional and reliable electric service.

MOTION FOR CONSIDERATION:

FUNDING SOURCE/IMPACT: N/A

ATTACHMENTS:

- Public Power Week Proclamation

MANAGER'S COMMENTS AND RECOMMENDATIONS:

PUBLIC POWER WEEK PROCLAMATION

2026

WHEREAS, public power is a crucial component in cities and towns across North Carolina, driving the overall health of communities by providing unmatched reliability, affordable and increasingly clean electricity, excellent local service, and essential jobs in communities; and

WHEREAS, North Carolina's more than 70 public power cities and towns, including Waynesville, provide electricity with a reliability rating of 99.99 percent to nearly 1.6 million North Carolinians; and

WHEREAS, many of North Carolina's public power cities and towns have been electric providers for more than 100 years, assisting their communities through boom times as well as pandemics and economic downturns and maintaining essential electricity to homes and businesses; and

WHEREAS, North Carolina public power communities are part of a mutual aid network that spans the state and country, providing invaluable support during times of hurricanes and other natural disasters while maintaining a superior safety record; and

WHEREAS, North Carolina's public power providers are essential community assets that contribute to the well-being of the community and provide invaluable economic development opportunities; and

WHEREAS, North Carolina's public power utilities are dependable institutions that provide excellent service, valuable energy solutions, and a commitment to community health and welfare; and

WHEREAS, the State of North Carolina recognizes Public Power Week and commends the public power cities and towns across our state and nation for their outstanding contributions to our communities;

NOW, THEREFORE, I, Gary Caldwell, Mayor of the Town of Waynesville, do hereby proclaim October 4 – 10, 2026, as "Public Power Week" in Waynesville and commend its observance to all citizens.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Town of Waynesville this twenty-second day of September in the year of our Lord two thousand and twenty-six.

Gary Caldwell, Mayor

Attest: _____
Candace Poolton, Town Clerk

WAYNESVILLE TOWN COUNCIL
PROJECT UPDATE
Meeting Date: September 22, 2026

SUBJECT: Presentation by ES Engineering, P.C. and EnviroScience, Inc. on the Richland Creek and Vance Greenway Restoration Project.

AGENDA INFORMATION:

Agenda Location: New Business
Item Number:
Department: Development Services
Contact: Olga Grooman, Interim Development Services Director
Presenter(s): Emily Tarsa, Ph.D.; Haley Valdez, P.E.; Angelina Hotz, P.E.; Julie Bingham, CERP ES Engineering, P.C. and EnviroScience, Inc.

BRIEF SUMMARY:

ES Engineering, P.C. (ESNC) and EnviroScience, Inc. are working with Haywood Waterways Association to develop the restoration design for the Richland Creek and Vance Greenway Restoration project. The goals of the project include stabilization of eroding streambanks, restoration of portions of the streambanks to their pre-Helene condition, removal of existing streamside levees, increased long-term channel resiliency, greenway improvements, and interception of urban stormwater inputs prior to entering the stream. Greenway improvements will also support the Town of Waynesville's Comprehensive System-Wide Parks and Recreation Plan by helping address gaps in the existing greenway network and improving connectivity between existing greenway segments.

Additionally, the project will include enhancement of in-stream habitat that supports trout and other aquatic species, improving overall ecological function and recreational value. The introduction of native vegetation will further increase infiltration within the floodplain and improve aesthetic and recreational value along the greenway. Overall, the project will address damage to Richland Creek incurred during Tropical Storm Helene in September 2024, improve greenway access for the public, connect the existing greenway segments at Vance Street Park and behind Mountain Creek Plaza Apartments, and contribute to the Town of Waynesville's stormwater permit compliance by intercepting direct runoff from urban sources.

The project will be funded in part through a \$2 million NCDEQ Hurricane Helene recovery grant administered through Haywood Waterways Association to support streambank stabilization, riparian buffer enhancement, and related restoration efforts. Of the available grant funding, approximately \$78,000 is allocated for engineering, design, and permitting of the full project reach, while approximately \$267,000 is allocated toward construction of the upstream work areas (Work Areas 1–3). This is a unique, time-sensitive Hurricane Helene recovery funding source, with awarded funds required to be expended by March 2027.

The project will be implemented in phases, with design and permitting for the full project reach currently underway. Construction of Work Areas 1–3 is anticipated for late fall 2026 through early spring 2027 to meet the grant expenditure deadline. Construction of the downstream work areas (Work Areas 4–13) is anticipated to occur in phases between 2027 and 2030, contingent upon receipt of additional grant funding.

A draft version of the engineering plans for the project were submitted to Town of Waynesville staff on July 30, 2026, for review and feedback. After incorporating comments from all stakeholders, ES

Engineering will update the design and produce a final plan set that will be submitted to the Town. The purpose of this presentation is to provide the Town Council with an update on the project and obtain feedback. Prior to construction, all necessary grading and floodplain permits will be obtained, and the required construction easements from the Town will be secured.

ATTACHMENTS:

- PowerPoint Presentation by ES Engineering and EnviroScience
- Proposed Plans showing the scope of work

MANAGER'S COMMENTS AND RECOMMENDATIONS:

Richland Creek and Vance Greenway Restoration Project

**Waynesville Town
Council Meeting
September 22, 2026**



**ES Engineering
OF NORTH CAROLINA**



Agenda

- Project Overview
- Richland Creek Site Assessment Findings
- Restoration Design Components
- Initial Work Area



Project At a Glance

Repair Storm Damage

Stabilize eroding banks and restore damaged portions of Richland Creek after Hurricane Helene

Improve Public Access and Recreation

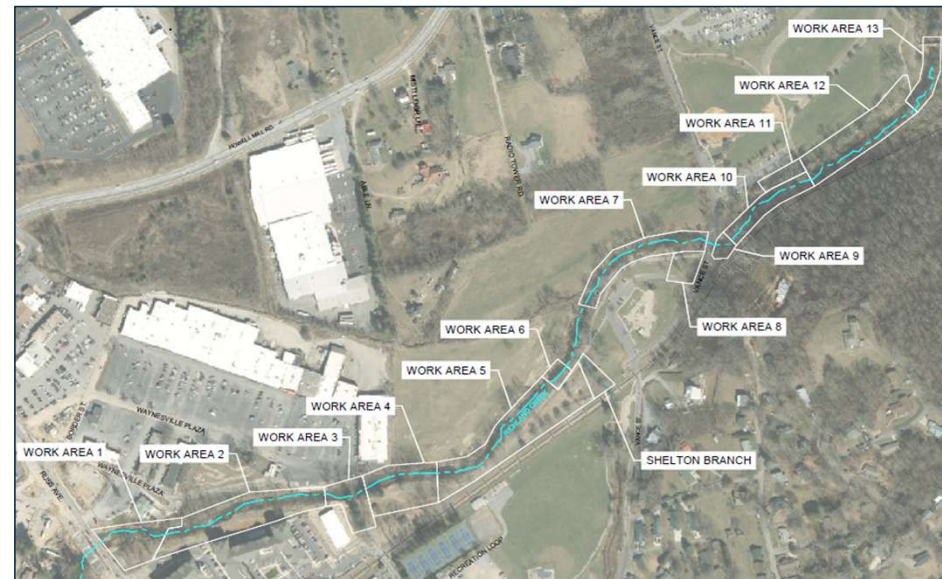
Tie stream restoration to greenways improvements, access, viewsheds, and trail connectivity

Improve Stream Habitat

Create and enhance habitat to support healthy trout and other aquatic species populations

Treat Runoff Before it Reaches the Creek

Capture and filter urban stormwater inputs where practical before they enter Richland Creek



13 Work Areas; Russ Ave Bridge to Pedestrian Bridge

Field Findings

Richland Creek is not uniformly damaged – some reaches held up through Helene, while other areas showed **bank loss**, **sediment accumulation**, and **active adjustment**.

Areas of Richland Creek have **small riparian buffer**, **limited floodplain access**, **direct stormwater inputs**, and **moderate in-stream habitat**.

What That Means

The right solution is targeted:

- Stabilize the problem areas
- Enhance the riparian buffer
- Improve in-stream habitat
- Filter stormwater

Can simultaneously improve recreation, public access, and education opportunities

Small problem areas can create larger corridor issues over time



The Why



More Stable Stream Banks

Reduced erosion and sedimentation;
maintain sediment transport



Larger Riparian Buffer

Increased stream shading; improved
flood resiliency

Cleaner Runoff

Enhanced water quality – benefits for
aquatic life and recreation



Better Trout Habitat

Increased recreation and economic
value

Better Greenway Experience

Improved access; trail reconnection;
enhanced recreational value

ES Engineering
OF NORTH CAROLINA

EnviroScience™
Excellence In Any Environment

RESTORATION DESIGN



What the Design Is Targeting

1. Bank Stabilization

Repair eroding banks and protect land along Richland Creek

2. Levee Removal

Increase viewsheds, reconnect the floodplain, and lower steep bank heights to increase stability

3. Stormwater Capture

Filter direct runoff from urban sources before it reaches the stream

4. Trout Habitat

Add in-stream habitat features that improve cover, depth, and flow diversity

5. Access and Trail Improvements

Improve views, public access, fishing, and greenway continuity

6. Native Riparian Buffer

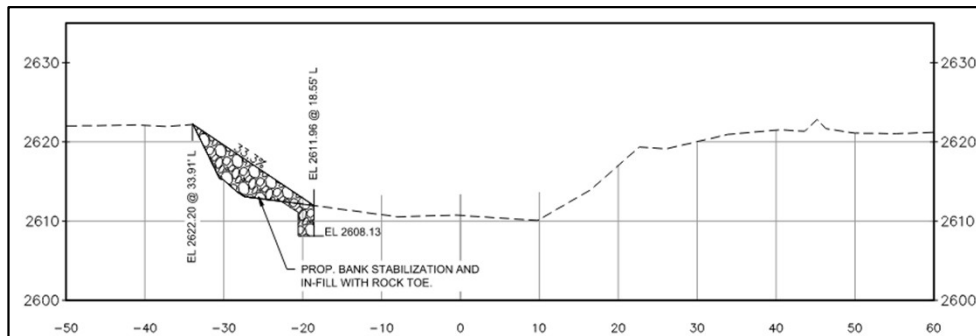
Plant trees and shrubs for shade, infiltration, and long-term stability



1. Bank Stabilization



- Repairs and stabilize eroded banks from storm damage
- Protect infrastructure from further erosion
- Reduce sediment loss into stream
- Soil infill and plantings to increase stability



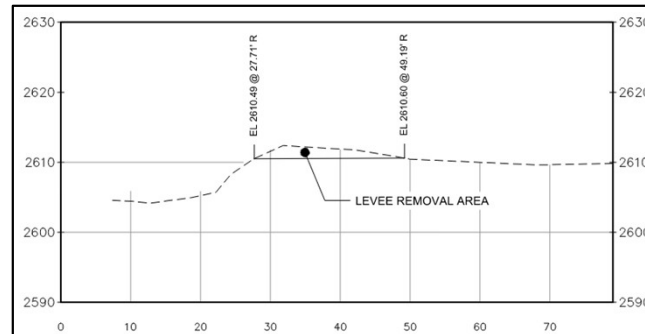
Area of Concern	Predicted Erosion (tons/yr)
Zaxby's Bank	51.5
Storage Unit Bank	12.0
Train Tracks Bank	27.7
Ped Bridge Bank	21.4
TOTAL	112.6



2. Levee Removal



- Increase floodplain connection and stream stability
- Improve sightline to stream for public
- Remove waste embedded in bank
- Plant with native vegetation to increase infiltration



3. Stormwater Capture



- Capture runoff from urban areas prior to entering stream
- Provide water quality treatment
- Slow down runoff before entering stream
- Increase infiltration and ground water recharge



4. Trout Habitat



- Approx. 15 woody habitats and 50 boulder habitats
- Provide habitat for aquatic life
- Improve fishing access
- Protect vulnerable streambanks



5. Access and Trail Improvements



- Reconnect currently disconnected greenway
- Provide designated stream access points
- Protect vegetation in surrounding areas
- Encourage stream interaction and fishing



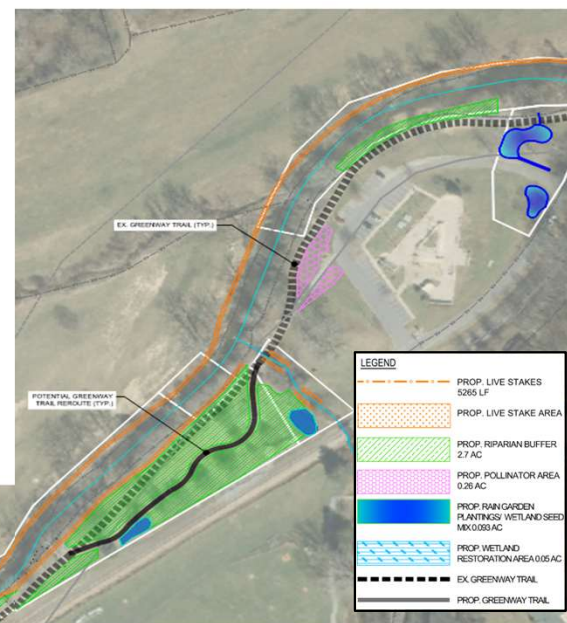
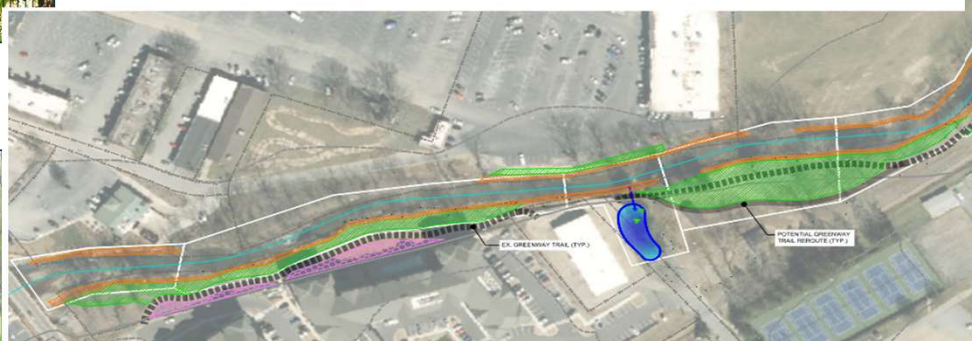
6. Native Riparian Buffer



- Increased infiltration
- Stream shading
- Erosion control and soil stabilization
- Water quality improvements
- Habitat creation
- Trail experience



Conewago Creek Initiative –
Riparian Buffer (PA)



North Carolina Biodiversity Project



Milkweed (*Asclepias* species)

Milkweeds are hosts to Monarch butterflies, and are an essential part of any pollinator garden. Native species include Butterfly Weed (*Asclepias tuberosa*) and Swamp Milkweed (*Asclepias incarnata*).



Beebalm (*Monarda* species)

Beebalm attracts a variety of pollinators, including bees, wasps, moths, and hummingbirds. Native species include Spotted Horsemint (*Monarda punctata*), Wild Bergamot (*Monarda fistulosa*), and Scarlet Beebalm (*Monarda didyma*).



Purple Coneflower (*Echinacea purpurea*)

Purple Coneflower is a popular perennial that blooms from summer into fall. It attracts a range of pollinators, including bees and butterflies, and its seeds provide food for birds.



Joe-pye Weed (*Eutrochium* species)

Joe-pye Weeds are summer-blooming perennials that attract bees, moths, butterflies, and other insects. Hollow Joe-pye Weed (*Eutrochium fistulosum*) is a native species well suited to NC pollinator gardens.



Buttonbush (*Cephalanthus occidentalis*)

Buttonbush attracts bees, moths, hummingbirds, and a variety of other pollinators. This native, deciduous shrub usually grows to a height of 3 to 10 feet.



Mountain Mint (*Pycnanthemum* species)

Mountain mints attract bees, butterflies, and other pollinators. Native species include Silverleaf (*P. incanum*), Narrow-leaf (*P. tenuifolium*), and Short-toothed (*P. muticum*).



Goldenrod (*Solidago* species)

Goldenrods are popular with many pollinating insects. Native species include Wrinkle-leaf (*Solidago rugosa*) and Bluestem (*Solidago caesia*).



New York Ironweed (*Vernonia noveboracensis*)

New York Ironweed is an attractive summer-flowering perennial that makes an excellent addition to your pollinator garden.

Funding and Implementation Path

NCDEQ Hurricane Helene recovery grant

Administered through Haywood Waterways Association; funds must be spent by March 2027.



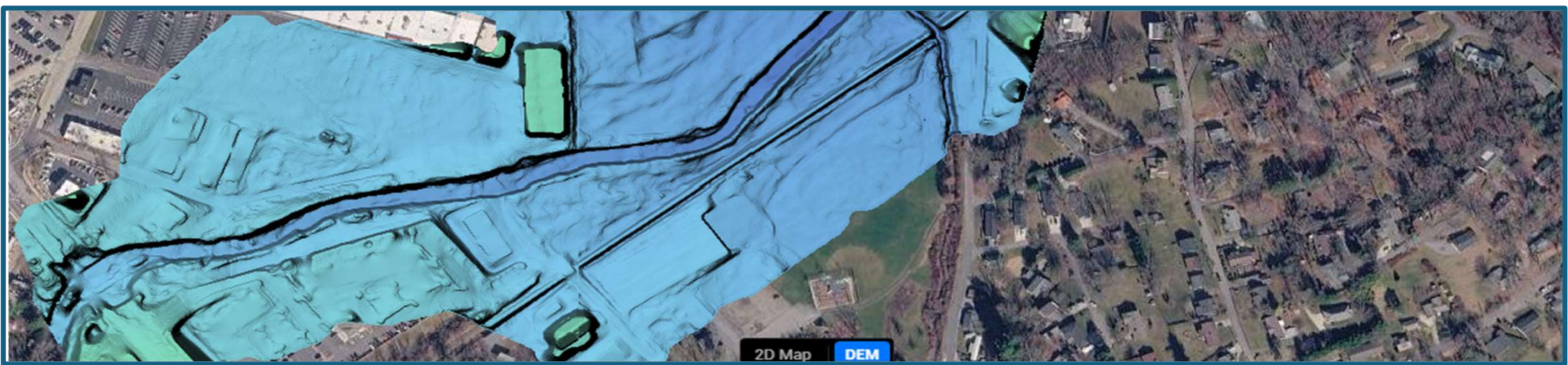
Initial Work Area

- Target construction Fall 2026/Spring 2027

WA 1	WA 2	WA 3
• Bank repair and stabilization • Stream capacity enhancement • Public stream access • Native plantings	• Levee removal • Stream sightline improvement • Native plantings	• Urban runoff capture • Bank repair and stabilization • Greenway improvements • Native plantings



Questions?

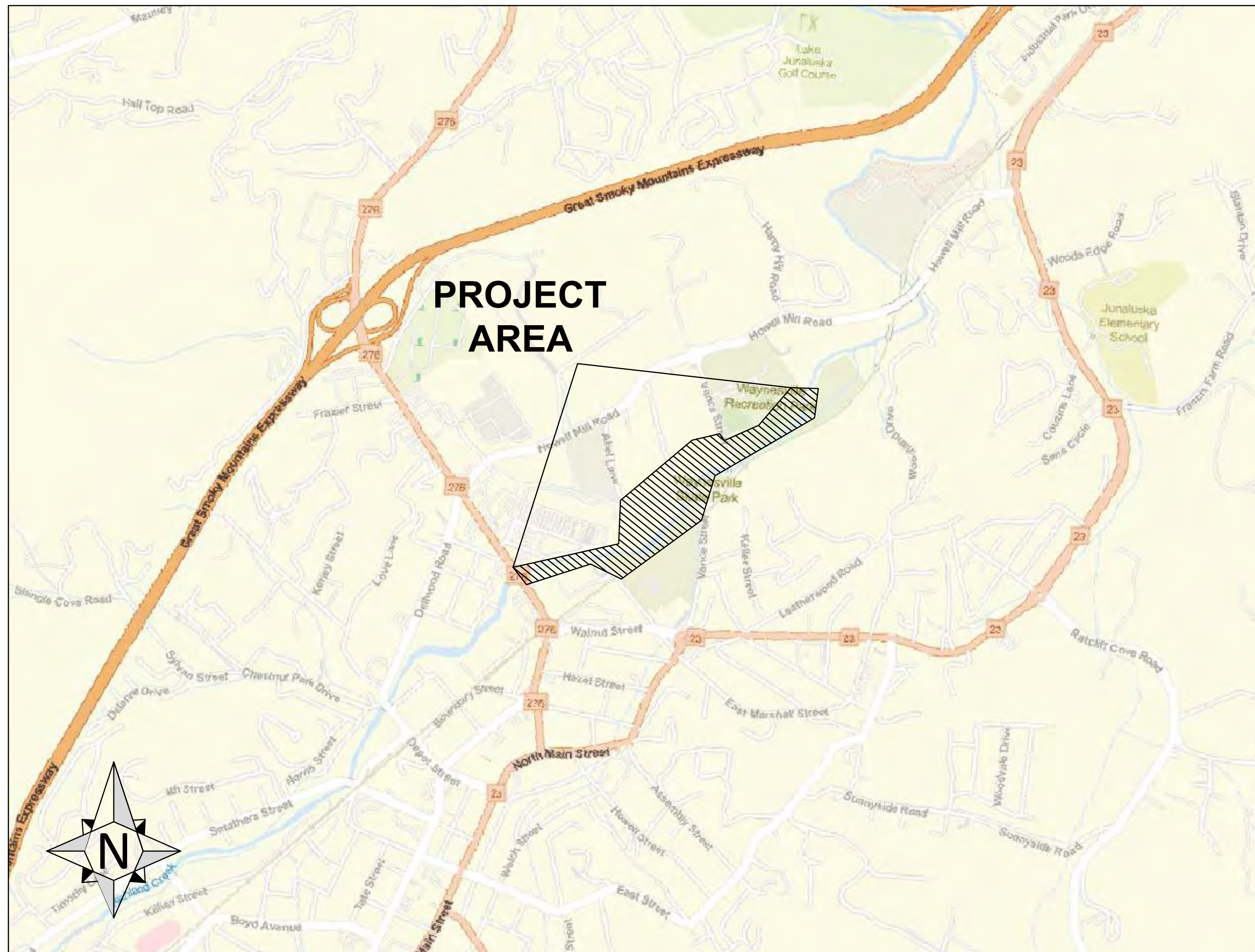


ES Engineering
OF NORTH CAROLINA



RICHLAND CREEK AND VANCE GREENWAY RESTORATION

HAYWOOD COUNTY, WAYNESVILLE, NC 28786
SEPTEMBER 2026



SITE LOCATION MAP

SCALE: 1" = 1000'
LAT: 35°30'5.02"N LONG: 82°58'50.22"W

INDEX SHEETS

1: TITLE SHEET.....	G-00
2-3: GENERAL NOTES & SPECIFICATIONS.....	G-01 - 02
4: WORK AREAS - KEY PLAN.....	C-01
5-6: EXISTING CONDITION & DEMOLITION PLAN.....	C-02 - 03
7-16: RESTORATION PLAN: WORK AREAS 1-13.....	C-04 - 13
17-21: STANDARD DETAILS.....	D-01 - 05
22-25: PLANTING PLAN.....	PL-01 - 04
26-32 SWPPP	SW-01 - 07

**50% DESIGN
NOT FOR CONSTRUCTION**

PREPARED FOR:

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

PREPARED BY:

ES Engineering

NC Affiliate Office: 145 7th Ave West, Suite B
Hendersonville, NC 28792
828-784-8324 | NC License C-5299



SEPTEMBER 2026
DATE

C:\USERS\GREGORY\ONE DRIVE - ARTISTES CAD FILES\HOSTING - ES ENGINEERING\CD\154 RICHLAND CREEK\RESTORATION\DESIGN\B\ RICHLAND CREEK\GREENWAY\DRWG - 02 GENERAL NOTES.DWG - 02 NOTES - GH-01 - 9/10/2026 8:07:23 AM - THAD GREGORY

GENERAL NOTES

1. STREAM & GREENWAY RESTORATION PROJECT DESCRIPTION

THE PROJECT IS LOCATED AT (LAT: 35°30'5.02"N LONG: 82°58'50.22"W) THE VANCE ST GREENWAY ALONG RICHLAND CREEK IN THE CITY OF WAYNESVILLE, HAYWOOD COUNTY, NORTH CAROLINA.

THE OBJECTIVE OF THE RICHLAND CREEK AND VANCE GREENWAY RESTORATION PROJECT IS TO RESTORE ERODED STREAMBANK, IMPROVE FLOODPLAIN CONNECTIVITY, CREATE AQUATIC HABITAT, AND INTERCEPT URBAN RUNOFF. THE PROJECT WILL RE-ESTABLISH A STABLE GEOMETRY, RESTORING AN APPROPRIATE RIFFLE-POOL COMPLEX, PROTECTING VULNERABLE STREAMBANKS, AND EMBEDDING STRUCTURAL KEYS AND GRAD CONTROLS TO GUARD AGAINST FUTURE CHANNEL MIGRATION. URBAN RUNOFF FROM KEY SURROUNDING IMPERVIOUS AREAS WILL BE INTERCEPTED PRIOR TO DIRECT RUNOFF ENTERING THE STREAM. THE ENTIRE PROJECT AREA WILL BE RE-VEGETATED USING A VARIETY OF NATIVE SEED, LIVE STAKES, AND BARE ROOTS.

2. STREAM CONSTRUCTION GENERAL SEQUENCE

STREAM CONSTRUCTION WILL FOLLOW THE GENERAL SEQUENCE OF:

- UTILITY COORDINATION (NC 811 NOTIFICATION)
- MOBILIZE TO RICHLAND CREEK, ENSURE ALL EQUIPMENT BROUGHT TO THE SITE IS CLEAN. DIRTY EQUIPMENT SHALL NOT BE PERMITTED;
- INSTALL EROSION AND SEDIMENT CONTROLS;
- CONSTRUCT TEMPORARY ACCESS ROADS AND STAGING AREAS;
- TREE AND VEGETATION CLEARING AND GRUBBING; VEGETATION WILL BE CLEARED DURING APPROPRIATE TIMEFRAME FROM OCTOBER 1ST TO MARCH 31ST;
- SITE LAYOUT AND ESTABLISH WORKING LIMITS;
- INITIATE WATER CONTROL/DIVERSION PROCEDURES;
 - EXCAVATE DIVERSION TRENCH TO DIVERT BASE FLOW UPSTREAM;
- ESTABLISH STREAM CROSSING(S);
- STRIP AND STOCKPILE TOPSOIL AS NECESSARY IN GRADING AREAS;
- BEGIN UPSTREAM AND WORK IN A DOWNSTREAM DIRECTION;
- BEGIN EXCAVATION TO ESTABLISH SUBGRADE;
- IMPORT AND INSTALL BANK STABILIZATION FEATURES'
- CONSTRUCT IN-STREAM HABITAT FEATURES;
- CONSTRUCT GRADE CONTROL AND ROCK VANES WITH ROCK KEY;
- PERFORM FINISH GRADING;
- INSTALL STOCKPILED OR IMPORTED TOPSOIL TO FINISH GRADE;
- SEED, STABILIZE, AND INSTALL EROSION CONTROL FABRIC;
- INSTALL NATIVE TREES, SHRUBS, AND LIVE STAKES. REMOBILIZATION MAY BE NECESSARY DEPENDING ON TIMING OF PLANTINGS;
- DEMOBILIZE.

3. PERMITS

WORK WITHIN PROJECT SITE/LIMITS IS SUBJECT TO U.S. ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION (I.E., JURISDICTIONAL WATERS OF THE U.S.). ANY IMPACTS AND PLACEMENT OF FILL TO JURISDICTIONAL WATERS OUTSIDE OF THE PROJECT LIMITS IS PROHIBITED. THE FOLLOWING PERMITS APPLY TO THIS PROJECT:

- NATIONWIDE PERMIT (NWP) 27 AND 13 FROM THE U.S. ARMY CORPS OF ENGINEERS (USACE).
 - THIS PROJECT WILL LIKELY BE SUBJECT TO AN IN-WATER WAIVER FOR SEASONAL SALMONID FROM SEPTEMBER 15TH TO JUNE 30TH.
- NORTH CAROLINA EPA - NOTICE OF INTENT (NOI) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER AN NPDES GENERAL PERMIT (NCG01).
- FLOODPLAIN DEVELOPMENT PERMIT

A. QUALITY ASSURANCE, QUALITY CONTROL, AND OWNER OVERSIGHT

FIELD OBSERVATION/CONSTRUCTION OVERSIGHT WILL BE CONDUCTED BY *ES ENGINEERING*. A CONSTRUCTION REPRESENTATIVE OF *ES ENGINEERING* SHALL BE CONSULTED WITH PRIOR TO THE CONSTRUCTION AND PLACEMENT OF RESTORATION FEATURES. *THE CONTRACTOR* SHALL COORDINATE WITH THE CONSTRUCTION REPRESENTATIVE FOR EVALUATION OF CHANNEL, GRADING, ANY TEMPORARY STREAM CROSSINGS, SUBGRADES, SUBSTRATES INCLUDING BANK RUN, GRAVELS, COBBLES AND BOULDERS, AND ANY BOULDER HABITAT STRUCTURES AND PLANTINGS.

THE CONSTRUCTION REPRESENTATIVE SHALL DETERMINE THE ACCEPTABILITY OF ALL STREAM CONSTRUCTION AND ITS PROCEDURES. THERE WILL BE CONSTANT REVIEW OF ALL MATERIALS, CONSTRUCTION PRACTICES, AND THE QUALITY AND QUANTITY OF ALL PHASES OF THE RIVER RESTORATION PORTION OF THE PROJECT. THE CONSTRUCTION REPRESENTATIVE SHALL HAVE AUTHORITY TO REQUEST STREAM FEATURE ADJUSTMENTS AS MAY BE NECESSARY TO BEST MEET THE RESTORATION OBJECTIVES. EVALUATION OF CONSTRUCTED GRADES WILL DETERMINE APPROVAL. ALL RESTORATION ELEMENTS SHALL NOT BE CONSIDERED COMPLETE UNTIL APPROVED BY THE CONSTRUCTION REPRESENTATIVE.

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, AND CONCRETE MONUMENTS, OR ANY TYPE OF LAND MONUMENT. THE CONTRACTOR SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED.

B. CLEARING AND GRUBBING

NO TREE REMOVAL WILL BE PERMITTED OUTSIDE THE LIMITS OF WORK INDICATED ON THE PLANS UNLESS AUTHORIZED. TREE REMOVAL IS SUBJECT TO THREATENED AND ENDANGERED (T&E) BAT REQUIREMENTS. CLEARING MUST OCCUR FROM OCTOBER 1ST TO MARCH 31ST, OR AS SPECIFIED BY THE US FISH & WILDLIFE SERVICE (USFWS).

TREE CLEARING MUST BE REVIEWED BY *ES ENGINEERING* AND THE CITY OF WAYNESVILLE PRIOR TO CUTTING. ONLY TREES MARKED AS TO BE REMOVED SHOULD BE CUT UNLESS INSTRUCTED OTHERWISE BY *ES ENGINEERING*.

C. WATER MANAGEMENT

THE CONTINUATION OF STREAM FLOW FROM UPSTREAM TO DOWNSTREAM BEYOND THE END OF THE PROJECT MUST BE MAINTAINED AT ALL TIMES. TEMPORARY DAMMING TO COMPLETELY STOP FLOW IS PROHIBITED. TEMPORARY DAMMING TO FACILITATE BYPASS PUMPING IS PERMITTED. BYPASS PUMPING IS PERMITTED AS LONG AS PROPER EROSION AND SEDIMENT CONTROL BMP'S ARE FOLLOWED.

D. TOPSOIL AND SEED PREPARATION

TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON-SITE. TOPSOIL SHALL BE RE-SPREAD TO ACHIEVE FINISH GRADE WITH 2.5 - 5-INCHES. PRIOR TO TOPSOIL INSTALLATION SUBGRADE SHALL BE DECOMPACTED TO A MINIMUM DEPTH OF 6-12 INCHES USING RIPPER ATTACHMENT. PRIOR TO SEEDING ALL AREAS MUST BE INSPECTED AND APPROVED BY *ES ENGINEERING*. AFTER TOPSOIL INSTALLATION AREAS SHALL BE PREPPED FOR SEED INSTALLATION USING A SKID STEER TILLER ATTACHMENT. NATIVE AND TEMPORARY SEED MIXES SHALL THEN BE INSTALLED.

FOLLOWING SEED APPLICATION TOPSOILS AND ALL SLOPES GREATER THAN 2:1 (AT A MINIMUM) SHALL BE PROTECTED WITH SUITABLE STRAW MULCH OR EROSION FABRIC DEEMED SUITABLE TO WITHSTAND THE LEVEL OF RISK ASSOCIATED WITH POTENTIAL FLOODING, WIND OR OTHER RISK WITH THE POTENTIAL TO THREATEN TOPSOIL OR SEED VIABILITY.

TOPSOILS SHALL NOT BE OVERCOMPACTED. OVER COMPACTED TOPSOIL OR AREAS DEEMED UNSUITABLE UPON INSPECTION SHALL BE MODIFIED TO SUITABLE GROWING CONDITIONS. TOPSOIL AND SUBGRADE MATERIAL SHOULD BE ABLE TO BE PENETRATED TO FULL SHOVEL DEPTH WITH LIGHT FORCE FROM A NORMAL SPADE SHOVEL.

E. TEMPORARY STREAM CROSSING

TEMPORARY STREAM CROSSING IF NECESSARY AT A LOCATION WHERE CONSTRUCTION EQUIPMENT WILL CROSS THE STREAM THE CONTRACTOR SHALL CONSTRUCT A STABLE CROSSING FROM ONE OF THE FOLLOWING OPTIONS.

TIMBERMAT CROSSING: USING VARIOUS COMBINATIONS AND CONFIGURATIONS OF TIMBERMATS PLACED PARALLEL AND ACROSS CHANNELS CAN BE USED AS A CROSSING(S). A SUITABLE ROCK MATTRESS CAN BE USED AS A FOUNDATION.

HDPE PIPE / ROCK CROSSING: A ROCK MATTRESS ROCK CHANNEL PROTECTION TO PROTECT THE STREAM BED AND BANKS. MATERIAL SHALL CONSIST OF NATURAL RIVER ROCK FROM SAME APPROVED AGGREGATE SOURCE FOR PROJECT. INSTALL TEMPORARY CULVERT PIPING IN ACCORDANCE WITH THE STANDARD TEMPORARY STREAM CROSSING DETAIL. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE PIPING AND REUSE AS APPROVED BY THE CONSTRUCTION REPRESENTATIVE OR REMOVE MATERIAL FROM THE PROJECT SITE.

AT GRADE STREAM CROSSING: FORD USING THE EXISTING SAND AND GRAVEL STREAM BOTTOM.

F. RIVERBED AND STREAMBANK SUBGRADE

THIS WORK SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PRODUCE CHANNEL DIMENSIONS AND PROFILE GRADES AS DETAILED IN THE STREAM REALIGNMENT PLANS. STREAM CHANNEL AND FLOODPLAIN GRADING SHALL BE PERFORMED TO ESTABLISH STABLE EARTHEN BANK ALONG THE NEW BANKFULL ALIGNMENT BY EITHER EXCAVATION OR FILL. IF EARTHEN FILL IS NECESSARY, FILL SHALL BE PLACED IN MINIMUM 9" LOOSE LAYER LIFTS AND COMPACTED MECHANICALLY (E.G., WITH MACHINE BUCKET) FOR STREAMBANK AND/OR FLOODPLAIN CREATION. EARTHEN FILL SHALL BE COMPACTED SO THAT IT IS FIRM AND STABLE AND THERE IS NO PRESENCE OF SOIL PUMPING OR SINKING. REFER TO LIMITS OF PROPOSED STREAMBANK CONSTRUCTION SHOWN ON PLAN, PROFILE AND CROSS-SECTIONS. OVERCOMPACTION IS NOT DESIRABLE BECAUSE IT WILL LIMIT PLANT GROWTH AND ROOT DEVELOPMENT. IF SUBGRADE IN STREAMBANK AND FLOODPLAIN AREAS ARE DEEMED TO BE OVERCOMPACTED BY CONSTRUCTION REPRESENTATIVE, THEN AREA SHALL DECOMPACTED TO A MINIMUM DEPTH OF 1 FT USING A RIPPER ATTACHMENT PRIOR TO APPLICATION OF TOPSOIL TO ACHIEVE FINISH GRADE. THIS INCLUDES ALL ACCESS ROADS THAT ARE WITHIN THE RESTORATION AREA.

G. RIVERINE SUBGRADE SHALL BE EXCAVATED OR INSTALLED PER THE LINES & GRADES ON THE PLAN AND PROFILE DRAWINGS INCLUDED HEREIN. IF EXCAVATION IS PERFORMED INTO NATURAL UNDISTURBED GROUND TO ACHIEVE THE SUBGRADE THEN COMPACTION IS NOT NECESSARY. IF FILL IS NECESSARY TO ACHIEVE SUBGRADE, THEN FILL SHALL BE COMPACTED MECHANICALLY. THE SUBGRADE SHALL BE COMPACTED SO THAT IT IS FIRM AND STABLE AND THAT THERE IS NO VISUAL PRESENCE OF SOIL PUMPING OR SINKING.

COMPACTION OF THE SUBGRADE IS NECESSARY TO CREATE THE FOUNDATION TO ACHIEVE THE FINISH GRADE OF THE STREAMBED PROFILE. A FAILURE TO PROPERLY CREATE THIS FOUNDATION WILL RESULT IN PROFILE SETTLING AND ADVERSE CHANGES IN STREAM SLOPE AND MORPHOLOGY RELATIONSHIPS.

H. SURVEY/DATUM

I. THE ELEVATION DATUM IS NAVD88, AND THE HORIZONTAL DATUM IS NAD83, NC STATE PLANE, US FOOT. DRAWINGS ARE BASED ON FIELD DATA COLLECTED BY *ES ENGINEERING* (145 7TH AVE WEST, SUITE B, HENDERSONVILLE, NC 28792); IN FEBRUARY AND JULY 2026. PARCEL BOUNDARIES AND STREETS WERE OBTAINED FROM HAYWOOD COUNTY COUNTY GIS TO SUPPLEMENT THE FIELD DATA.

J. EXISTING UTILITIES

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY FACILITIES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF FIELD SURVEY IN ACCORDANCE WITH THE NC UNDERGROUND UTILITY SAFETY AND DAMAGE PREVENTION ACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS AND UTILITY PROTECTION SERVICE LISTED BELOW IN ACCORDANCE WITH SECTION 87.122 OF THE NC STATUTE. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE SITE AND BECOME FAMILIAR WITH ALL UTILITIES (WATER, SANITARY, ELECTRIC, GAS, TELEPHONE, FIBER OPTIC, etc.) WITHIN THE LIMITS OF THE PROJECT, WHICH MAY INTERFERE WITH THE PROPOSED CONSTRUCTION. THE DETAILS AND DIMENSIONS SHOWN ON PLANS PERTAINING TO THE EXISTING FACILITIES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING FACILITIES AND DO NOT NECESSARILY REPRESENT AS-BUILT CONDITIONS. ALL PROJECT WORK HAS BEEN BASED UPON THE DETAILS AND DIMENSIONS PRESENTED ON THESE PLANS AND SPECIFICATIONS. UNEXPECTED UTILITY WORK SHALL BE CONTEMPLATED FOR COMPLETION AND PAID AS A PART OF THE PROJECT GENERAL ALLOWANCE.

BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE NORTH CAROLINA UTILITIES PROTECTION SERVICE, AT 1-800-632-4949, SEVENTY-TWO (72) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE PROJECT, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE PROJECT, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.

PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL COORDINATE UTILITY SUPPORT AND/OR RELOCATION BY THE UTILITY OWNER FOR ALL EXISTING UTILITIES WHICH WILL BE AFFECTED DURING CONSTRUCTION. THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

WHERE EXISTING UTILITY POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THE OPERATION OF THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE.

K. PRECONSTRUCTION VIDEO RECORDING

THE CONTRACTOR SHALL RECORD AN AUDIO/VISUAL RECORDING OF THE PROJECT LIMITS AND ADJACENT AREAS, ESPECIALLY ALONG THE EXISTING CURB NEAR THE CONSTRUCTION ENTRANCE, EXISTING CATCH BASINS/CULVERTS, AND PROPERTIES WHERE EXISTING CONDITIONS MAY BE DISTURBED. THE RECORDING SHALL BE OF DIGITAL FORMAT AND BE PROVIDED TO THE OWNER PRIOR TO MOBILIZATION.

L. RIVERBED SUBSTRATE

THE WENTWORTH SCALE IS USED TO DEFINE SUBSTRATE SIZES AS MEASURED ALONG THE MEDIAN AXIS OF THE SUBSTRATE. THE BROAD RANGES FOR SAND, GRAVEL, COBBLE AND BOULDERS ARE SHOWN IN TABLE 1 BELOW:

TABLE 1 - SUBSTRATE MATERIAL TYPE AND SIZE RANGES	
MATERIAL TYPE	SIZE RANGE
BOULDER	GREATER THAN 10 INCHES
COBBLE	2.5 INCHES TO 10 INCHES
GRAVEL	2 MM TO 2.5 INCHES
SANDS	0.063 MM TO 2 MM
SILTS AND CLAYS	LESS THAN 0.063 MM

THE WENTWORTH SCALE MATERIAL SUB-GRADATIONS AND SIZE RANGES FOR GRAVELS AND COBBLES ARE SHOWN IN TABLE 2 BELOW:

TABLE 2 - GRAVEL AND COBBLE MATERIAL SUB-GRADATIONS AND SIZE RANGES		
MATERIAL SUB-GRADITIONS	SIZE RANGE (MM)	SIZE RANGE (INCHES)
VERY FINE GRAVEL	2-4	0.08-0.15
FINE GRAVEL	4-8	0.15-0.31
MEDIUM GRAVEL	8-16	0.31-0.63
COARSE GRAVEL	16-32	0.63-1.26
VERY COARSE GRAVEL	32-64	1.26-2.52
SMALL COBBLE	64-90	2.52-3.54
MEDIUM COBBLE	90-128	3.54-5.04
LARGE COBBLE	128-180	5.04-7.09
VERY LARGE COBBLE	180-256	7.09-10.08

4. FINAL WALK THROUGH

A FINAL WALK THROUGH FOR EACH MAJOR COMPONENT WILL BE COMPLETED BY THE CONSTRUCTION REPRESENTATIVE. THE MAJOR COMPONENT WILL BE COMPLETED ONLY AFTER THE FINAL WALK THROUGH AND ANY ASSOCIATED PUNCH LIST ITEMS ARE CORRECTED AS REQUIRED PER THE DRAWINGS AND SPECIFICATIONS.

THE MAJOR COMPONENTS OF THIS PROJECT ARE:

- 4,284 LF STREAM RESTORATION ON RICHLAND CREEK;
- 177 LF STREAM RESTORATION ON SHELTON BRANCH;
- BANK STABILIZATION - INCLUDES LOCKED LOGS, ROCK PROTECTION
- LEVEE REMOVAL
- IN-STREAM HABITAT FEATURES; WOODY AND BOULDER HABITAT
- NATIVE PLANTINGS

NOTICE OF FINAL WALK THROUGH NEEDS TO BE GIVEN 48 HOURS IN ADVANCE. CONTRACTOR SHOULD NOT DEMOBILIZE OR REMOVE ACCESS TO AREAS WITHOUT FINAL APPROVAL.

16. IMPLEMENTATION VARIABILITY

THE STREAM RESTORATION AND FLOODPLAIN ENHANCEMENT or BANK STABILIZATION DETAILED IN THESE PLANS REPRESENT AND APPROACH BASED UPON FIELD DATA COLLECTION AND ASSESSMENTS COMPLETED AT AN EARLIER DATE. CONSTRUCTION WILL BE IMPLEMENTED BY THE DESIGN-BUILD TEAM AND MAY VARY FROM THE PLAN BASED ON ACTUAL AND/OR UNFORESEEN FIELD CONDITIONS. MODIFICATIONS MAY BE NECESSARY TO BEST SUIT THE NEEDS OF THE PROJECT GOALS. ALL RESTORATION/ENHANCEMENT WILL BE COMPLETED WITH THE INTENT OF PROVIDING A STABLE AND FUNCTIONAL ECOLOGICAL SYSTEM THAT IS RESILIENT OVER TIME. EVEN NATURAL STABLE SYSTEMS ARE DYNAMIC AND CONSTANTLY CHANGING, PARTICULARLY STREAMS. THEREFORE, ADJUSTMENT IS EXPECTED TO OCCUR IN VARYING DEGREES WITH THE PASSAGE OF TIME AND CHANGING SEASONS. CLIMATIC SHIFTS AND MORE INTENSE RAINFALL EVENTS ARE PLACING ADDED PRESSURE ON OUR NATURAL SYSTEMS. MOVEMENT OF SUBSTRATE, OBSTRUCTIONS TO CHANNEL FROM VEGETATION AND WOODY DEBRIS, MINOR BANK EROSION AND DEPOSITION ARE A FEW OF THE POTENTIAL CHANGES THAT MAY OCCUR BUT ARE NATURAL AND TO BE EXPECTED. IT IS IMPORTANT TO UNDERSTAND AND EVALUATE THE SCALE AND RATE OF CHANGE WITH RESPECT TO OVERALL STABILITY AND PROJECT GOALS. TYPICALLY RESTORATION PROJECTS BECOME MORE RESILIENT WITH TIME AND MATURING VEGETATION, HOWEVER OUR TEAM IS COMMITTED TO CREATING A SUSTAINABLE PROJECT. WE WILL WORK WITH THE OWNER TO UNDERSTAND ANY PERCEIVED CHANGES WITH RESPECT TO THESE GOALS.

GENERAL NOTES

NOT FOR
CONSTRUCTION

NO.	REVISION/ISSUE	DATE

50% DESIGN

ES Engineering

NC Affiliate Office: 145 7th Ave West: Suite B
Hendersonville, NC 28792
828-784-8324 | NC License C-5299

RICHLAND CREEK AND VANCE
GREENWAY RESTORATION

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

GENERAL NOTES &
SPECIFICATIONS

DESIGNED BY: ADH DRAWN BY: TG CHECKED BY: ET	SHEET: G-01
DATE: SEPTEMBER 2026 VERT. SCALE: NA HORZ. SCALE: NA	02 / 32

C:\USERS\GREGORY\ONE DRIVE - ARTISTES CAD FILES\HOSTING - ES ENGINEERING\06-0154 RICHLAND CREEK RESTORATION DESIGN\DESIGN & RICHLAND CREEK\ESHEET TSDRC_00 GENERAL NOTES.DWG - 03 NOTES - GH-02 - 9/10/2026 9:07:22 AM - THAO GREGORY

SPECIFICATIONS

1. FLOODPLAIN TOPSOIL FURNISHED AND PLACED, AS NECESSARY

IF PLANS REQUIRE IMPORTED TOPSOIL OR STOCKPILED TOPSOIL IS INSUFFICIENT TO COMPLETE FINISH GRADES THEN AN APPROVED IMPORTED TOPSOIL SHALL THEN BE INSTALLED. IN IDENTIFIED FLOODPLAIN AREAS PER PLAN WHICH GENERALLY CONSISTS OF AREAS BETWEEN THE RIPARIAN CORRIDOR EMBANKMENT SLOPE AND BANKFULL ELEVATION

ES ENGINEERING SHALL APPROVE ANY TOPSOIL MATERIAL TO BE IMPORTED INTO THE SITE. THE CONTRACTOR WILL NOTIFY ES ENGINEERING OF THE SOURCE/LOCATION OF THE IMPORTED TOPSOIL FOR A VISUAL INSPECTION TO BE COMPLETED PRIOR TO IMPORTING MATERIAL TO THE SITE.

TOPSOILS FOR FLOODPLAINS WHICH HAVE A >5% GRAVEL OR COARSE SAND MAY BE ACCEPTABLE UPON APPROVAL FROM THE CONSTRUCTION REPRESENTATIVE

2. RIVERBED BANK RUN (SAND/GRAVEL) SUBSTRATE - FURNISHED AND PLACED, AS PER PLAN

SUITABLE SUBSTRATE MATERIALS USED FOR THIS MATERIAL ARE DEFINED AS FOLLOWS:

AGGREGATE FOR THIS ITEM SHALL BE A NATURAL MATERIAL COMPOSED OF A MIXTURE OF HARD, DURABLE PARTICLES OR FRAGMENTS OF STONE OR GRAVEL AND SAND, SOME COBBLES, AND SMALL AMOUNTS OF SILT, CLAY OR OTHER SIMILAR BINDING MATERIAL, AND SHALL BE FREE OF EXCESSIVE OR DETRIMENTAL AMOUNTS OF CLAY, CLAY LUMPS, LOAM, ROOTS, VEGETABLE MATTER, RUBBISH, WOOD, MULCH, OR OTHER NON-STABLE MATERIALS. ADDITIONAL DESCRIPTION PROVIDED BELOW. IT IS ESTIMATED THAT A MIX OF SAND AND GRAVEL SIZED MATERIAL WITH A SMALL PERCENTAGE OF SMALL COBBLE (I.E., LESS THAN 5%) WOULD BE SUITABLE.

BANK RUN SUBSTRATE IS DEFINED AS NON CRUSHED SAND AND GRAVEL SUBSTRATE MATERIAL WHICH SHALL BE UNWASHED/UNSORTED RAW MATERIAL FROM A LOCAL SAND & GRAVEL OPERATION WITHIN THE WATERSHED OR GEOLOGY. THIS MATERIAL IS SUITABLE FOR THE BASE OR FIRST LAYER PLACED ON THE STREAMBED SUBGRADE IN ALL AREAS. IF MATERIAL IS OUTSIDE SPECIFICATIONS TOLERANCE, MATERIAL CAN BE APPROVED BY THE CONTRACTOR IN COORDINATION WITH CONSTRUCTION REPRESENTATIVE. ALTERNATIVE APPROVED MATERIAL WILL BE BIASED TOWARDS LESS FINES AND MORE COARSE MATERIAL. LIMESTONE SHALL NOT BE USED. SITE VISITS TO THE ACTUAL SAND & GRAVEL OPERATION SHOULD BE ARRANGED WITH THE CONSTRUCTION REPRESENTATIVE TO EVALUATE THE PROPOSED MIX PRIOR TO DELIVERY OF MATERIALS TO THE SITE.

IT IS ANTICIPATED THAT EXISTING SAND AND GRAVEL MATERIAL BORROW FROM THE POINT BAR, STREAMBED AND OTHER EXCAVATION AREAS WILL BE SUITABLE AND REUSED FOR A PORTION OF THE BANK RUN MATERIAL.

3. RIVERBED GRAVEL/COBBLE SUBSTRATE - FURNISHED AND PLACED, AS PER PLAN

DEFINED AS A MIXTURE OF GRAVEL AND COBBLE WITH A WIDE RANGE OF DIMENSIONS/SIZES AS DETAILED BELOW. THE SIZE VARIABILITY IS PARAMOUNT TO HAVE APPROPRIATE FUNCTION AND STABILITY OF THE STREAMBED. IT IS UP TO THE CONTRACTOR AND THE CONSTRUCTION REPRESENTATIVE TO WORK TOGETHER TO APPROVE THE APPROPRIATE SUBSTRATE GRAVEL/COBBLE MIX. SITE VISITS TO THE ACTUAL SAND & GRAVEL OPERATION SHOULD BE ARRANGED WITH THE CONSTRUCTION REPRESENTATIVE TO EVALUATE THE PROPOSED MIX PRIOR TO DELIVERY. MATERIAL SHALL BE FROM A LOCAL SAND & GRAVEL OPERATION. LIMESTONE SHALL NOT BE USED IN THE GRAVEL/COBBLE COMPONENTS.

IT IS ANTICIPATED THAT EXISTING SAND AND GRAVEL MATERIAL BORROW FROM THE POINT BAR, STREAMBED AND OTHER EXCAVATION AREAS WILL BE SUITABLE AND REUSED FOR A PORTION OF THE RIVERBED GRAVEL/COBBLE SUBSTRATE.

THE PERCENTAGE RANGE FOR EACH MATERIAL SUB-GRADATION RANGE IS LISTED IN TABLE 3 BELOW.

4. RIVERBED BOULDER SUBSTRATE FURNISHED AND PLACED, AS PER PLAN, AS DIRECTED

DEFINED AS ANGULAR IN SHAPE AND COMPRISED OF GRANITE, GNEISS, QUARTZITE OR SIMILAR HARD MATERIAL. FRIABLE MATERIAL OR LOW QUALITY SANDSTONE IS NOT ACCEPTABLE. ANGULAR MATERIAL IS PREFERRED BECAUSE IT INCREASES THE INTERLOCKING ABILITY OF THE STONE AND IS LESS LIKELY TO ROLL OR MOVE. MATERIAL SHALL BE FROM A LOCAL SAND & GRAVEL OPERATION. BOULDERS WILL BE VISUALLY ASSESSED UPON ARRIVAL TO THE SITE BY THE CONSTRUCTION REPRESENTATIVE TO ENSURE THE SIZE CLASSES ARE REPRESENTED AS SPECIFIED.

BOULDERS ARE SUITABLE FOR SPECIFIC HABITAT, GRADE CONTROL STRUCTURES OR STRATEGICALLY POSITIONED ON THE ON THE RIFFLE, RUN OR POOL AREAS TO FUNCTION AS ROUGHNESS ELEMENTS. BOULDERS ARE MEASURED ACROSS THEIR MEDIAN AXIS. LIMESTONE CAN BE USED IN STREAMBED AREAS AS WELL AS ROCK CHANNEL PROTECTION AROUND CULVERTS AND SCOUR POOLS.

NCDOT SIZING IS USED TO IDENTIFY BOULDERS AS DESCRIBED IN TABLE 3 BELOW:

TABLE 3 - BOULDER SIZES		
TYPE	SIZE RANGE (INCHES)	DESCRIPTION
1500 LB	>30"	VERY LARGE TO LARGE
300-1500 LB	18" TO 30"	MEDIUM BOULDER
100-500 LB	12" TO 24"	MEDIUM TO SMALL-MEDIUM BOULDER
30-300 LB	6" TO 18"	SMALL-MEDIUM TO SMALL BOULDER

THE PERCENTAGE RANGE FOR EACH MATERIAL SUB-GRADATION RANGE IS LISTED IN TABLE 4 BELOW:

TABLE 4 - MATERIAL SUB-GRADATION RANGE							
COMPONENT	BANK RUN	GRAVEL	COBBLE	BOULDERS			
				TYPE A+	TYPE A	TYPE B	TYPE C
RIFFLE GRADE CONTROL	5%	0%	0%	5%	20%	50%	20%
FLOODPLAIN FILL - ROCK PROTECTION	5%	0%	0%	5%	25%	50%	15%
ROCK KEY	5%	2%	3%	0%	0%	45%	45%
BENDWAY WEIR	5%	5%	5%	5%	10%	35%	35%

SUBSTRATE COMPONENTS WILL BE VERIFIED BY THE CONSTRUCTION REPRESENTATIVE AT THE SUPPLIERS PLACE OF OPERATION OR ON-SITE. THE SUBSTRATE MIX WILL BE VERIFIED BY A CONSTRUCTION REPRESENTATIVE BY PERFORMING A RANDOM PARTICLE ANALYSIS ON THE PROPOSED MIX BY SPREADING THE MIX OUT ON A 10 FT BY 25 FT AREA. CHANGES OR APPROVAL OF THE SUBSTRATE COMPONENT MIX (I.E. FINAL PERCENTAGES) WILL BE DETERMINED BY THIS ANALYSIS. SHOULD THE EXISTING SAND AND GRAVEL BE USED INSTEAD OF IMPORTING THIS MATERIAL, THIS ANALYSIS DOES NOT NEED TO OCCUR.

5. FLOODPLAIN PROTECTION BANK STABILIZATION INSTALLATION

BANK STABILIZATION ARE AREAS WHERE ANGULAR BOULDERS AND RIP-RAP ARE NEEDED DUE TO EROSION AND BANK INSTABILITY. BANK STABILIZATION INSTALLATION SHALL BEGIN FROM THE LOWEST ELEVATION AND PROGRESS UPWARD IN ELEVATION. A FOUNDATION TOE SHALL BE INSTALLED TO PROTECT AGAINST SCOUR. THE TOE SHALL BE THE FURTHEST LIMIT OF ROCK IDENTIFIED ON PLANS AND CONSIST OF THE LARGEST DIAMETER MATERIAL IN THE IDENTIFIED SIZE CLASS.

ONCE THE FOUNDATION TOE IS ESTABLISHED THE BANK STABILIZATION SHALL PROGRESS IN LIFTS EQUAL TO THE C AXIS (LAYING AXIS) OF THE MATERIAL SPECIFIED. IN BETWEEN LIFTS IT IS VERY IMPORTANT TO CHOKO VOIDS AND SPACES WITH BANK RUN & SAND AND GRAVEL MATERIAL, INCLUDING CAREFULLY CHOKING MATERIAL UNDERWATER. THIS MATERIAL CAN CONSIST OF APPROVED ON-SITE MATERIAL ENCOUNTERED DURING EXCAVATIONS. SAND AND GRAVEL MATERIAL ONLY SHALL BE USED AS CHOKO MATERIAL TO THE BANKFULL ELEVATION AT THE CORRESPONDING STATION OF WORK. CHOKO MATERIAL ABOVE BANKFULL ELEVATION IF APPLICABLE CAN USE APPROVED SUBSOIL OR TOPSOIL.

THE START AND END POINTS OF BANK STABILIZATION AREAS SHALL BE BLENDED INTO THE EXISTING GRADES SO THAT ROCK MATERIAL IS FLUSH TO THE ADJACENT EXISTING BANK. THESE TIE IN LOCATIONS TO EXISTING GRADE SHALL BE COORDINATED AND APPROVED BY THE CONSTRUCTION REPRESENTATIVE.

OUTSIDE MEANDER LOG/TREE HABITAT IS OFTEN IDENTIFIED IN BANK STABILIZATION AREAS. THIS WOODY HABITAT FEATURE SHALL BE INTEGRATED INTO THE BANK STABILIZATION LIFTS. THE FINISHED LOCATION OF THE WOODY HABITAT SHALL BE IN FRONT OF THE BANK STABILIZATION ROCK BUT ANCHORED INTO THE LIFTS OF STABILIZATION ROCK. NON-FUNCTIONAL WOOD COMPLETELY BURIED BY ROCK OR NOT INSTALLED PROPERLY IS NOT ACCEPTABLE.

ROCK TOES SHALL BE 3-FT WIDE BY 3-FT IN DEPTH DESIGNED TO PREVENT FLANKING OF BANK STABILIZATION AND/OR OTHER STRUCTURES OR STREAM GEOMETRY. ROCK TOES ARE TO FOLLOW THE EXISTING OR PROPOSED TOPOGRAPHY IN THE AREA. THEREFORE THE 3FT DEPTH WILL BE FROM FINISH OR EXISTING GRADE. FOR EXAMPLE IF THE STREAMBANK SLOPES UPWARD THEN THE ROCK TOE WILL SLOPE CORRESPONDINGLY SLOPE UPWARD. FINAL ROCK TOE GRADES SHALL BE LOCATED AT ELEVATIONS THAT OFFER THE LOWEST RISK AND MOST PROTECTIVE MEASURES FOR THE GOALS OF THE PROJECT. ROCK SHALL CONSIST OF SOUND, DURABLE, ANGULAR TO SUBANGULAR NATIVE OR REGIONALLY APPROPRIATE GRANITE, GNEISS, QUARTZITE, OR SIMILAR HARD CRYSTALLINE/METAMORPHIC STONE.

6. TEMPORARY STABILIZATION AND NATIVE SEED INSTALLATION

GRAIN RYE (Secale cereale) OR OATS (Avena sativa) AT A RATE OF 30 - 50 LBS PER ACRE SHALL BE INSTALLED TO ALL DISTURBED AREA. NATIVE SEED MIXES ARE TO BE INSTALLED AT THE SPECIFIED RATE IN THE APPROPRIATE AREAS. ALL NATIVE SEED IS TO BE INSTALLED BY HAND SEEDING METHOD DUE TO VARIABILITY OF SEEDS WITHIN MIX. CONTRACTOR IS TO ESTIMATE SEEDING AREA AND WEIGH SEED IN APPROPRIATE QUANTITIES TO ENSURE APPLICATION AT THE CORRECT RATE. A STARTER FERTILIZER IS NOT REQUIRED UNLESS SITE-SPECIFIC SOIL TESTS DEEM A DEFICIENCY IN ONE OR MORE SOIL COMPONENTS. AT THAT TIME, A FERTILIZER RATE WILL BE APPLIED AS NECESSARY TO PROMOTE A HEALTHY NATIVE COMMUNITY. FOLLOWING TEMPORARY AND NATIVE SEED INSTALLATION, SEED IS TO BE LIGHTLY RAKED INTO SOIL. COVER SOIL WITH APPROPRIATE EROSION PROTECTION PER AREA.

7. EROSION CONTROL BLANKET FOR GENERAL PURPOSE - STRAW FABRIC, AS PER PLAN

FABRIC FOR GENERAL EROSION CONTROL SHALL BE AMERICAN EXCELSIOR COMPANY (AEC) STRAW-COCONUT FIBRENET OR APPROVED EQUAL SUBSTITUTE FOR FLOW RATES UP TO 8.5 FT/S AND SHEAR STRESS OF 2.0 LBS/SQ FT.

NO PLASTIC NETTING IS ALLOWED IN EROSION FABRIC. THIS FABRIC SHALL BE USED ON CUT-SLOPES ABOVE THE FLOODPRONE AREAS AND AREAS DIRECTED BY THE CONSTRUCTION REPRESENTATIVE TO CONTROL POTENTIAL EROSION AREAS THAT DO NOT HAVE CONCENTRATED FLOW. SUCH AS, THE RESTORED STREAM BANKS AND FLOODPLAIN. PRIOR TO INSTALLATION, THE AREA UNDER THE FABRIC SHALL BE SEEDD AND FERTILIZED AS DESCRIBED IN ITEM 6 ABOVE. EROSION FABRIC SHALL BE INSTALLED PER THE DETAILS IN THE PLAN AND MANUFACTURES INSTRUCTIONS AND IN ACCORDANCE WITH NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, CHAPTER 6.1.

EROSION FABRIC SHALL BE SECURED IN PLACE USING WOODEN STAKES. METAL STAPLES OR STAKES WILL NOT BE PERMITTED.

TABLE X - RIPRAP STONE SIZES			
WEIGHT (LB)	MEAN SPHERICAL DIA. (FT)	LENGTH (FT)	RECTANGULAR SHAPE WIDTH/HEIGHT (FT)
50	0.8	1.4	0.5
100	1.1	1.8	0.6
150	1.3	2.0	0.7
300	1.6	2.6	0.9
500	1.9	3.0	1.0
1000	2.2	3.7	1.3
1500	2.6	4.7	1.5
2000	2.8	5.4	1.8
4000	3.6	6.0	2.0
6000	4.0	6.9	2.3
8000	4.5	7.6	2.5
20,000	6.1	10.0	3.3

5. FLOODPLAIN AND WETLAND GRADING

FLOODPLAINS AND WETLANDS SHALL BE EXCAVATED TO THE GRADES PROVIDED IN THE PLANS. CONTOURS AND SPOT GRADES SHALL BE CONSIDERED THE FINISHED GRADE ELEVATION OF THE FLOODPLAIN/WETLAND. WETLAND AREAS SHALL HAVE A MINIMUM OF 0.5-FT (6 INCHES) OF SUITABLE TOPSOIL. AN EVALUATION OF TOPSOIL DEPTH SHALL BE PERFORMED TO DETERMINE IF WETLANDS CAN SIMPLY BE SCRAPPED TO ACHIEVE THE DESIRED DEPTH OF TOPSOIL. MICROTOPOGRAPHY VARIATIONS, DEPRESSIONS, AND SMALL HUMMOCKS ARE DESIREABLE AND ENCOURAGED IN BOTH THE SUBGRADE AND FINISHED GRADES. FINISHED GRADES WILL BE CHECKED BASED ON THE AVERAGE ELEVATIONS OF THE AREA.

AREAS WITHIN THE PROPOSED FLOODPLAINS OR WETLANDS NOT DENOTED WITH SPECIFIC ELEVATIONS WILL BE ROUGH GRADED TO LEAVE MICROTOPOGRAPHY AT ITS EXISTING ELEVATIONS AND TO PREPARE SOILS FOR SEEDING AND PLANTINGS.

GENERAL NOTES

NOT FOR CONSTRUCTION

NO.	REVISION/ISSUE	DATE

50% DESIGN

ES Engineering

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Hendersonville, NC 28792
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RICHLAND CREEK AND VANCE
GREENWAY RESTORATION

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

GENERAL NOTES &
SPECIFICATIONS

DESIGNED BY: ADH DRAWN BY: TG CHECKED BY: ET	SHEET: G-02
DATE: SEPTEMBER 2026	03 / 32
VERT. SCALE: NA HORZ. SCALE: NA	

SIZES FOR RIPRAP AND EROSION CONTROL STONE SPECIFIED BY NCDOT			
RIPRAP		EROSION CONTROL	
CLASS 1	CLASS 2	CLASS A	CLASS B
5-200 LB	25-250 LB	2"-6"	5"-15"
30% SHALL WEIGH A MIN. 60 LBS EA.	60% SHALL WEIGH A MIN. 100 LBS EA.		
NO MORE THAN 10% SHALL WEIGH LESS THAN 15 LBS. EA.	NO MORE THAN 5% SHALL WEIGH LESS THAN 50 LBS. EA.	10% TOLERANCE TOP AND BOTTOM SIZES	
		EQUALLY DISTRIBUTED, NO GRADATION SPECIFIED	EQUALLY DISTRIBUTED, NO GRADATION SPECIFIED

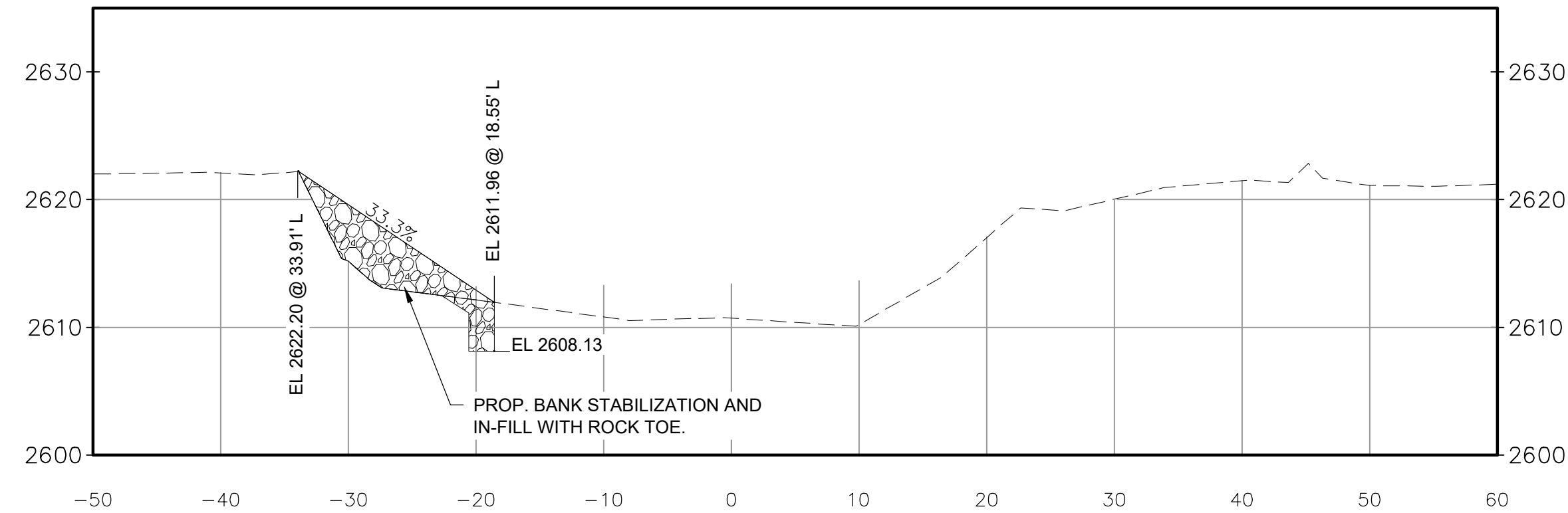
RIPRAP SHOULD BE A WELL-GRADED MIXTURE WITH 50% BY WEIGHT LARGER THAN THE SPECIFIED DESIGN SIZE. DIAMETER OF THE LARGEST STONE SIZE IN THE MIX SHOULD BE 1.5 TIMES THE D50 SIZE WITH SMALLER SIZES GRADING DOWN TO 1 INCH.

NCDOT TABLE 1042-1 ACCEPTANCE CRITERIA FOR RIPRAP AND STONE FOR EROSION CONTROL			
CLASS	REQUIRED STONE SIZES, INCHES		
	MINIMUM	MIDRANGE	MAXIMUM
A	2	4	6
B	5	8	12
1	5	10	17
2	9	14	23

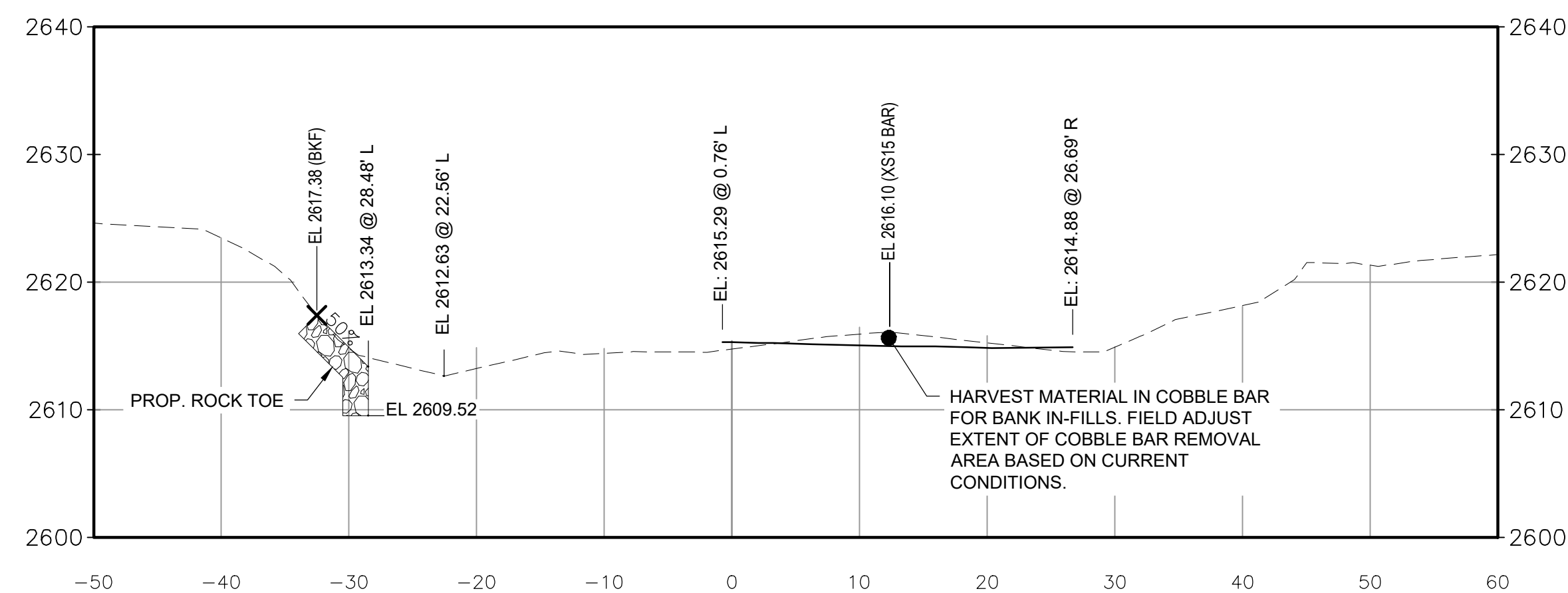
NO MORE THAN 5.0% OF THE MATERIAL FURNISHED CAN BE LESS THAN THE MINIMUM SIZE SPECIFIED
NOR NO MORE THAN 10.0% OF THE MATERIAL CAN EXCEED THE MAXIMUM SIZE SPECIFIED.

GENERAL NOTES		
 NOT FOR CONSTRUCTION		
LEGEND		
	P/L	PROPERTY LINE
		EX. THALWEG ALIGNMENT
		EX. FEMA FLOODWAY
		EX. FEMA FLOOD HAZARD AREA (100-YR)
		EX. FEMA FLOOD HAZARD AREA (500-YR)
		EX. ACTIVE RAIL ROAD
		EX. TRAIL
		POTENTIAL PROP. TRAIL
0 160 320 GRAPHIC SCALE IN FEET		
NO.	REVISION/ISSUE	DATE
50% DESIGN		
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RICHLAND CREEK AND VANCE GREENWAY RESTORATION TOWN OF WAYNESVILLE 9 S. MAIN ST. PO BOX 100 WAYNESVILLE, NC 28786		
SITE KEY PLAN WORK AREAS 1-13		
DESIGNED BY: ADH DRAWN BY: TG CHECKED BY: ET DATE: SEPTEMBER 2026 VERT. SCALE: NA HORIZ. SCALE: 1" = 160' SHEET: C-01 04 / 32		

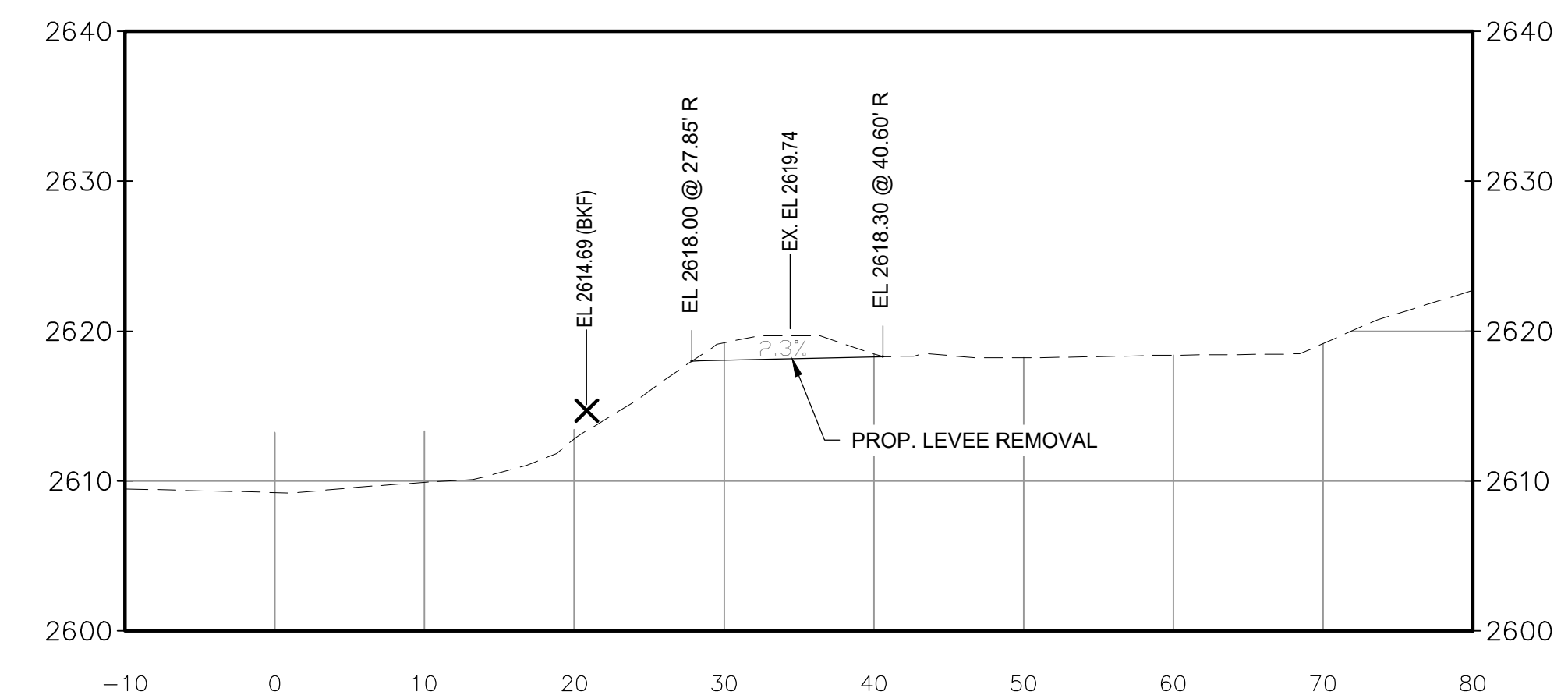
SCALE: 1" = 40'



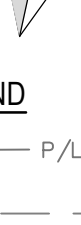
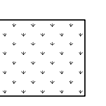
SCALE: 1" = 10'



SCALE: 1" = 10'



SCALE: 1" = 10'

GENERAL NOTES	
	
NOT FOR CONSTRUCTION	
LEGEND	
 P/L 	PROPERTY LINE
	EX. CONTOURS
	PROP. CONTOURS
	EX. THALWEG
	EX. DELINEATED WETLAND
 STM 	EX. STORM SEWER
 SAN 	EX. SANITARY SEWER
 W 	EX. WATER MAIN
 OHE 	EX. OVERHEAD ELECTRIC
 T 	EX. TELECOM
	EX. ACTIVE RAILROAD
	EX. TREE TO REMAIN
	EX. FEMA FLOODWAY
	EX. FEMA FLOOD HAZARD AREA (100-YR)
	EX. FEMA FLOOD HAZARD AREA (500-YR)
	EX. SEWER OUTFALL
	EX. STORM MANHOLE
	EX. SANITARY MANHOLE
	EX. UTILITY POLE
	EX. GUY WIRE
	EX. TELECOM PEDESTAL
 2620	PROP. SPOT GRADE

NO.	REVISION/ISSUE	DATE

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9 S. MAIN ST.
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WAYNESVILLE, NC 28786

WORK AREAS 1 & 2

DESIGNED BY: ADH DRAWN BY: TG CHECKED BY: ET	SHEET: C-06
DATE: SEPTEMBER 2026	07 / 32
VERT. SCALE: 1" = 10' HORZ. SCALE: AS-SHOWN	

**NOT FOR
CONSTRUCTION**

	PROPERTY LINE
	EX. CONTOURS
	PROP. CONTOURS
	EX. THALWEG
	EX. DELINEATED WETLAND
	EX. STORM SEWER
	EX. SANITARY SEWER
	EX. WATER MAIN
	EX. OVERHEAD ELECTRIC
	EX. TELECOM
	EX. ACTIVE RAILROAD
	EX. TREE TO REMAIN
	EX. FEMA FLOODWAY
	EX. FEMA FLOOD HAZARD AREA (100-YR)
	EX. FEMA FLOOD HAZARD AREA (500-YR)
	EX. SEWER OUTFALL
	EX. STORM MANHOLE
	EX. SANITARY MANHOLE
	EX. UTILITY POLE
	EX. GUY WIRE
	EX. TELECOM PEDESTAL
	PROP. SPOT GRADE

NO.	REVISION/ISSUE	DATE

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RICHLAND CREEK AND VANCE GREENWAY RESTORATION

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

RESTORATION PLAN

WORK AREA 3

DESIGNED BY: ADH
DRAWN BY: TG
CHECKED BY: ET

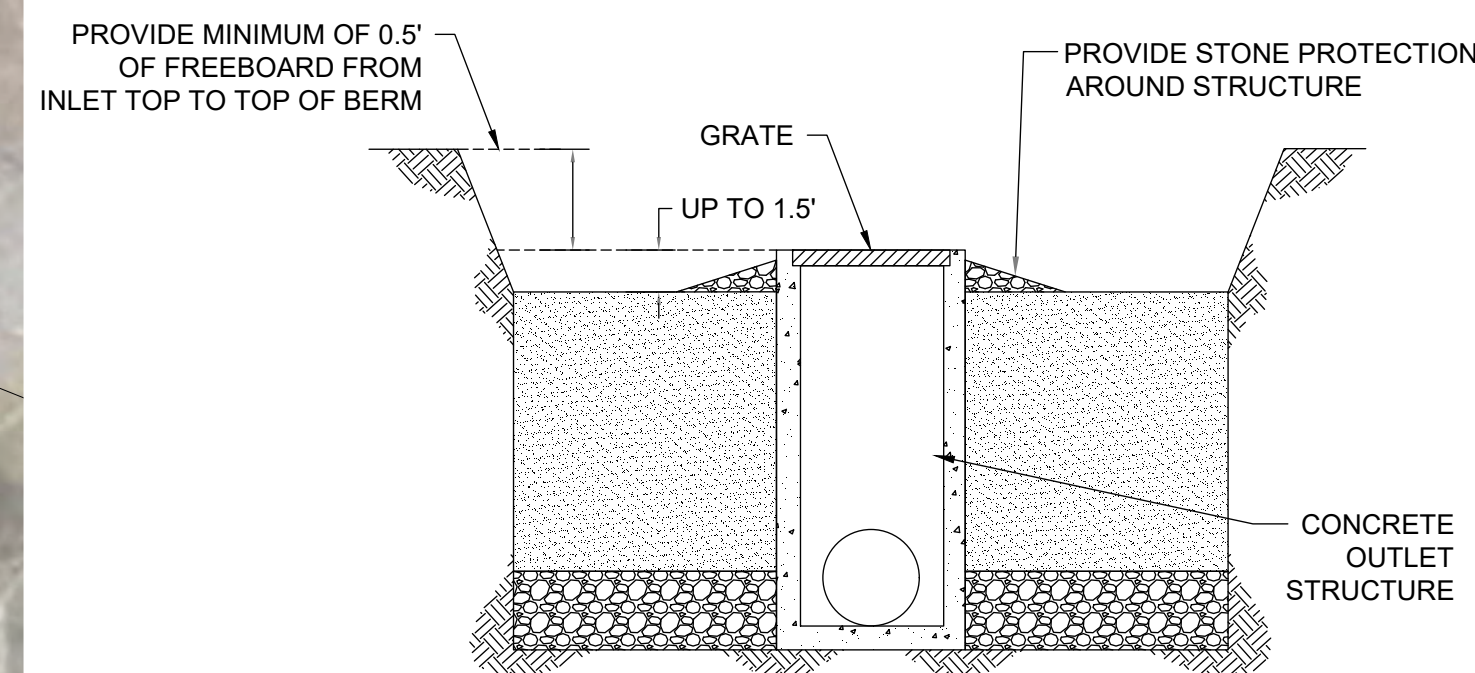
DATE: SEPTEMBER 2026

VERT. SCALE: 1" = 1'
HORIZ. SCALE: 1" = 1'

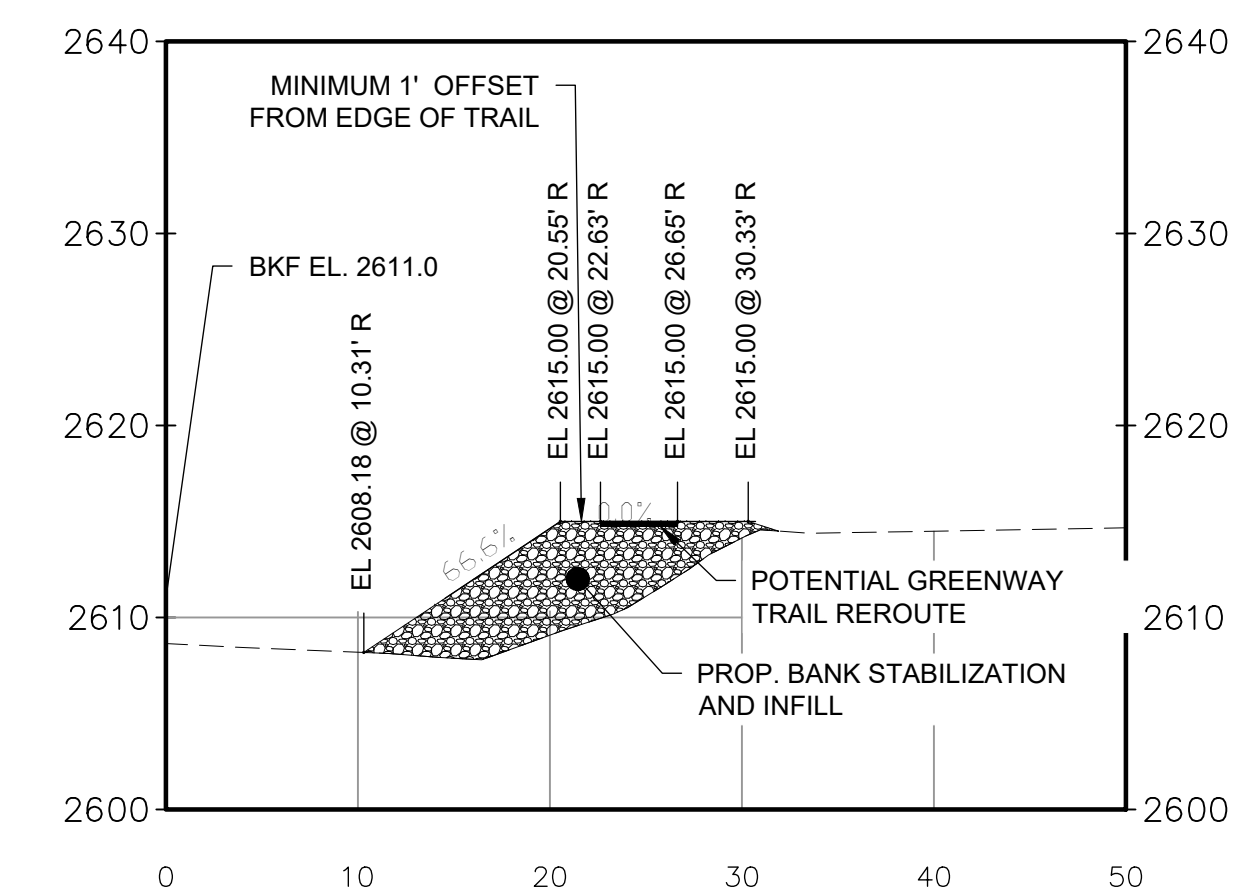
SHEET:

C-07

08 / 32

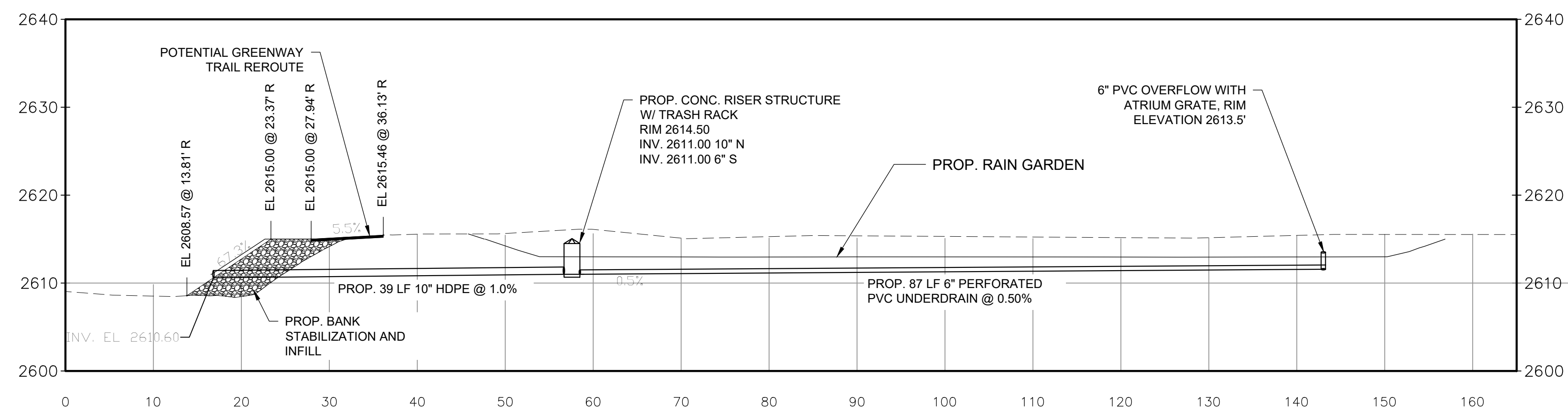


TYPICAL RAIN GARDEN SECTION



STA. 114+00 - CROSS SECTION

SCALE: 1" = 10'

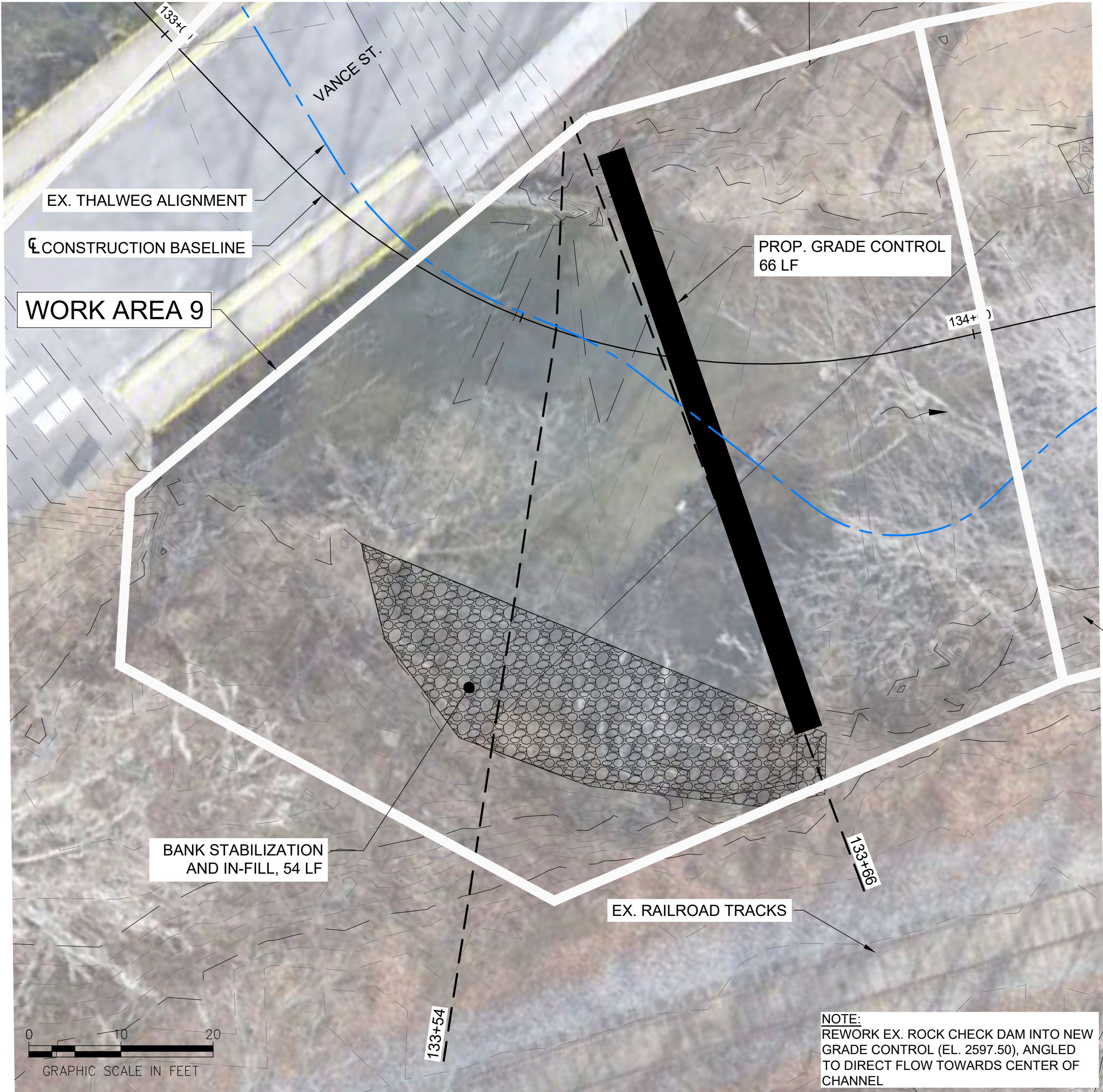


RAIN GARDEN (STA. 114+35) - CROSS SECTION

SCALE: 1" = 10'

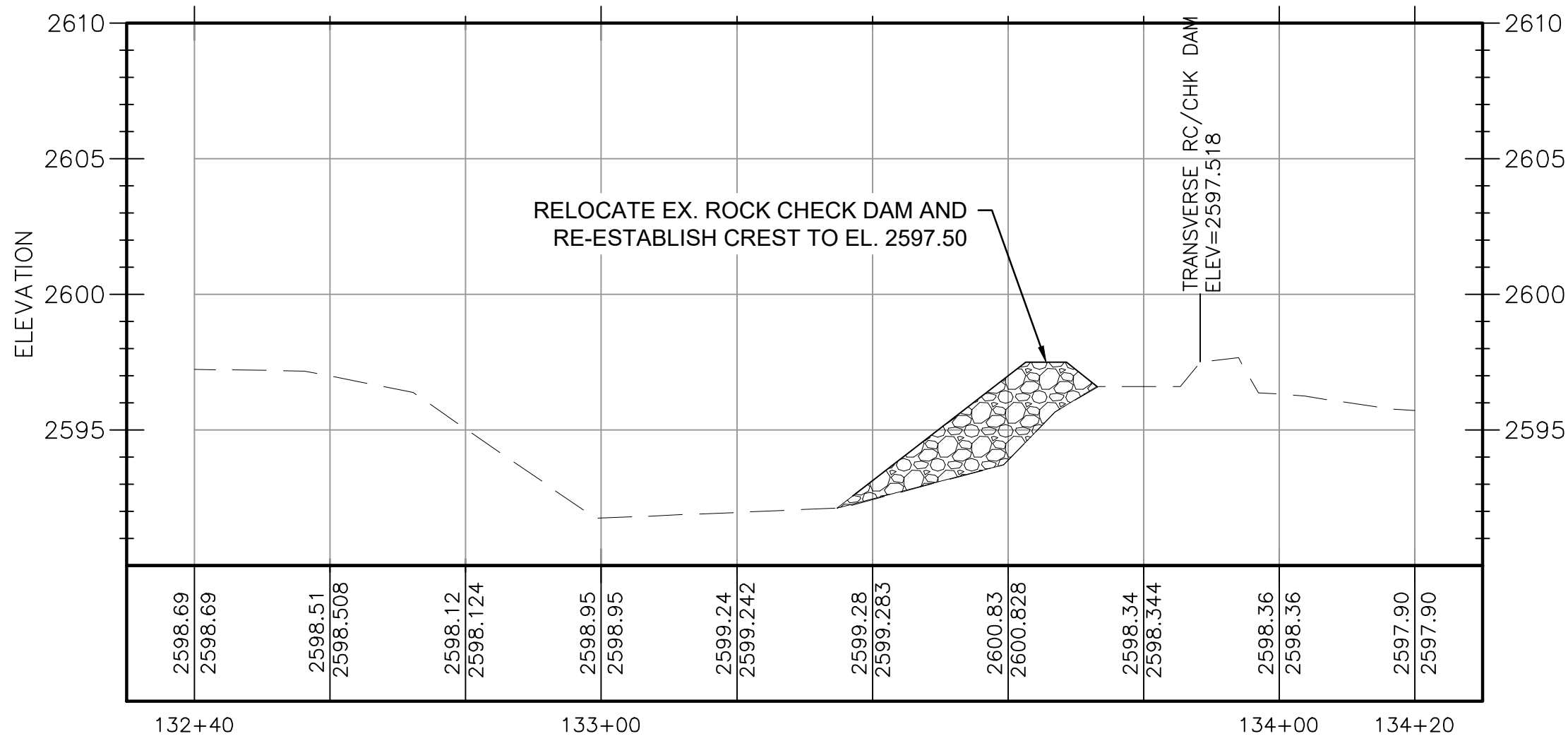
C:\USERS\TREGORY\ONE DRIVE - ES ENGINEERING\26-0154 RICHLAND CREEK RESTORATION DESIGN\DESIGN 50 RICHLAND CREEK SHEETS\RC 04 OVERALL DWG - 08 AREA 3 C-07 - 9/10/2026 4:50:19 PM - THAD GREGORY

C:\USERS\TREGORY\ONE DRIVE - ACTUATES CAD FILES HOSTING - ES ENGINEERING\B-0154 RICHLAND CREEK RESTORATION DESIGN\B-0154 RICHLAND CREEK RESTORATION DESIGN\B-0154 AREA 9 C-12 - 9/10/2026 4:50:19 PM - THAD GREGORY

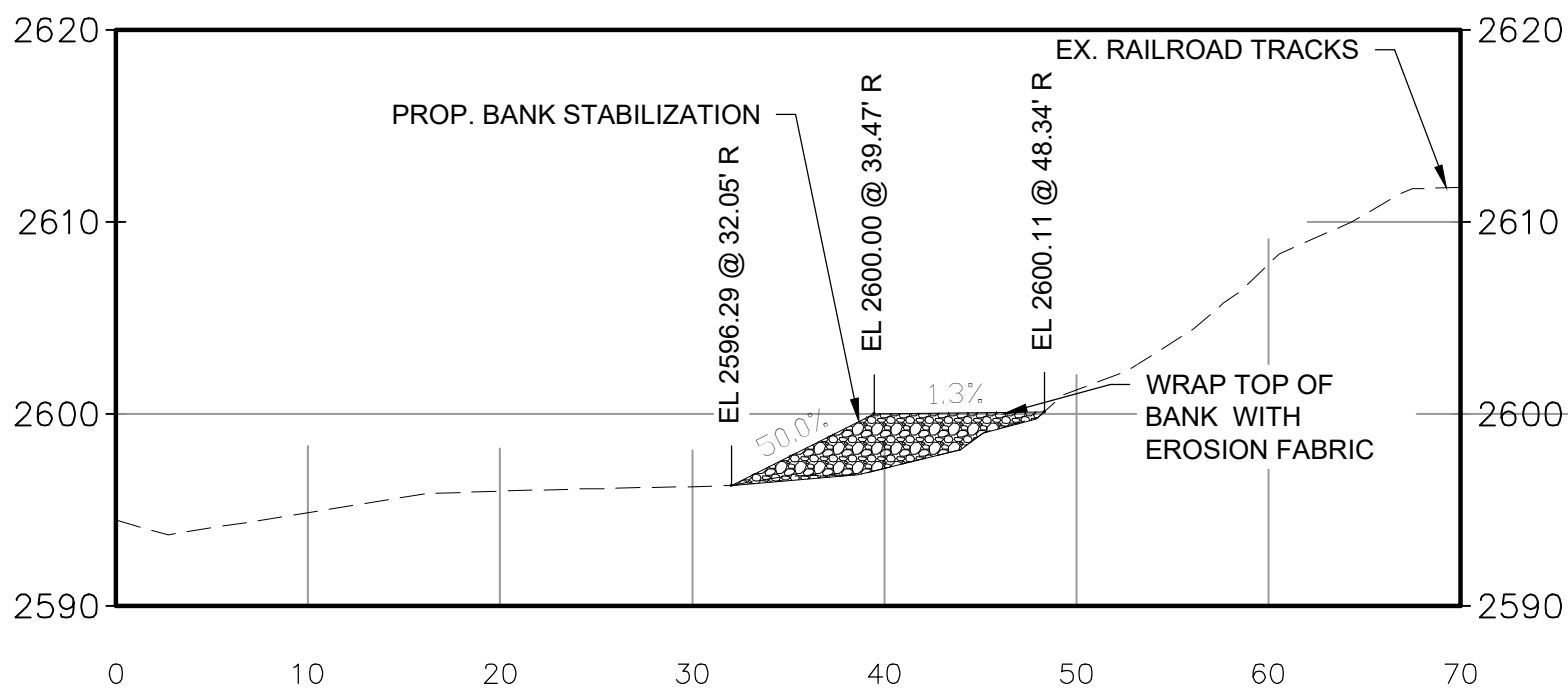


WORK AREA 9 - PLAN
SCALE: 1" = 10'

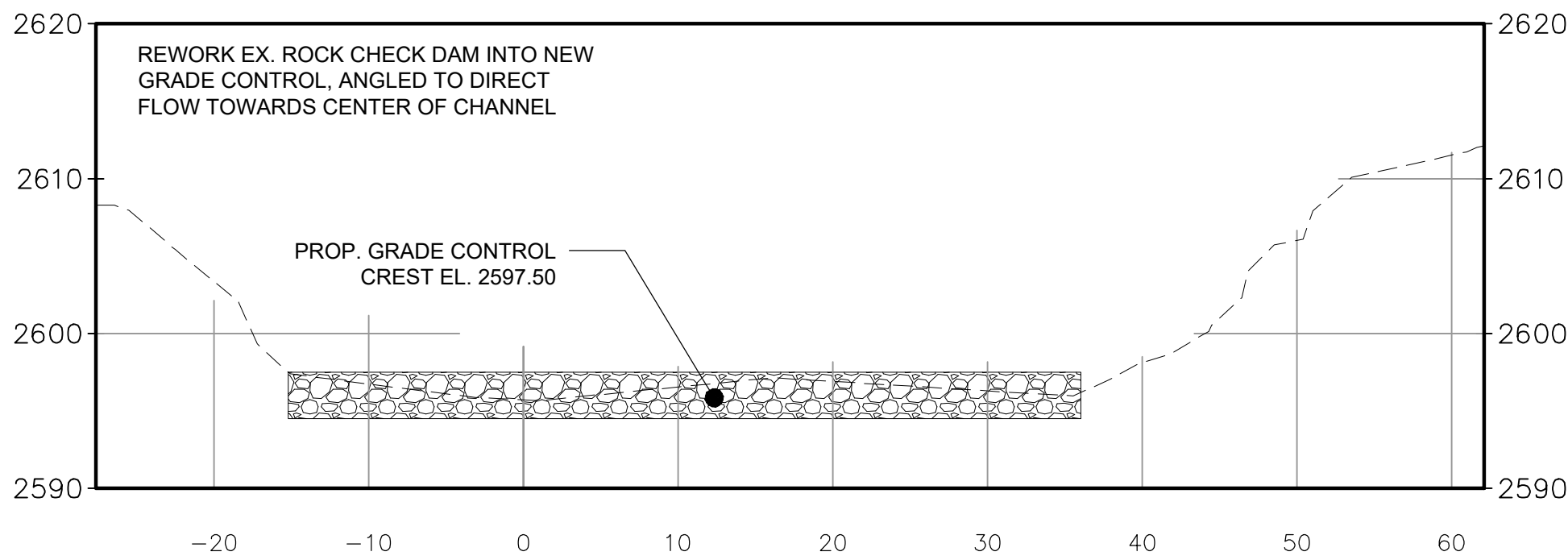
WORK AREA 10
SEE NEXT SHEET



WORK AREA 9 - PROFILE
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'

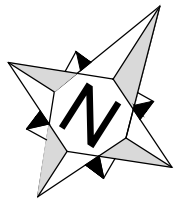


STA. 133+54 - CROSS SECTION
SCALE: 1" = 10'



PROP. GRADE CONTROL (STA. 133+66) - CROSS SECTION
SCALE: 1" = 10'

GENERAL NOTES



**NOT FOR
CONSTRUCTION**

LEGEND

	P/L	PROPERTY LINE
	EX. CONTOURS	EX. CONTOURS
	PROP. CONTOURS	PROP. CONTOURS
	EX. THALWEG	EX. THALWEG
	EX. DELINEATED WETLAND	EX. DELINEATED WETLAND
	STM	EX. STORM SEWER
	SAN	EX. SANITARY SEWER
	W	EX. WATER MAIN
	OHE	EX. OVERHEAD ELECTRIC
	T	EX. TELECOM
		EX. ACTIVE RAILROAD
		EX. TREE TO REMAIN
		EX. FEMA FLOOD HAZARD AREA (100-YR)
		EX. FEMA FLOOD HAZARD AREA (500-YR)
		EX. SEWER OUTFALL
		EX. STORM MANHOLE
		EX. SANITARY MANHOLE
		EX. UTILITY POLE
		EX. GUY WIRE
		EX. TELECOM PEDESTAL
	2620	PROP. SPOT GRADE

NO.	REVISION/ISSUE	DATE

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GREENWAY RESTORATION

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9 S. MAIN ST.
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WAYNESVILLE, NC 28786

RESTORATION PLAN

WORK AREA 9

DESIGNED BY:	ADH
DRAWN BY:	TG
CHECKED BY:	ET
DATE:	SEPTEMBER 2026
VERT. SCALE:	AS SHOWN
HORZ. SCALE:	AS SHOWN

SHEET:	C-12
	13 / 32

**NOT FOR
CONSTRUCTION**

	PROPERTY LINE
	EX. CONTOURS
	PROP. CONTOURS
	EX. THALWEG
	EX. DELINEATED WETLAND
	EX. STORM SEWER
	EX. SANITARY SEWER
	EX. WATER MAIN
	EX. OVERHEAD ELECTRIC
	EX. TELECOM
	EX. ACTIVE RAILROAD
	EX. TREE TO REMAIN
	EX. FEMA FLOODWAY
	EX. FEMA FLOOD HAZARD AREA (100-YR)
	EX. FEMA FLOOD HAZARD AREA (500-YR)
	EX. SEWER OUTFALL
	EX. STORM MANHOLE
	EX. SANITARY MANHOLE
	EX. UTILITY POLE
	EX. GUY WIRE
	EX. TELECOM PEDESTAL
	PROP. SPOT GRADE

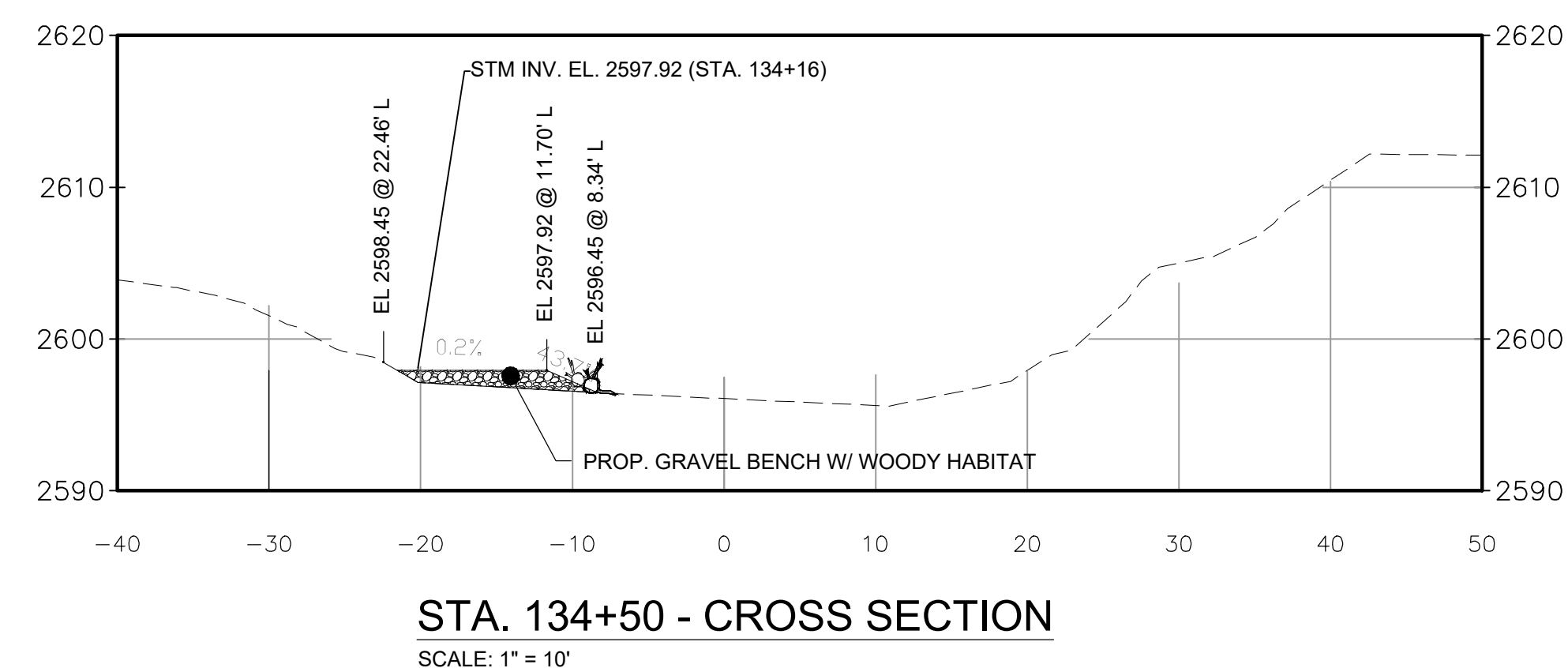
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WORK AREA 10

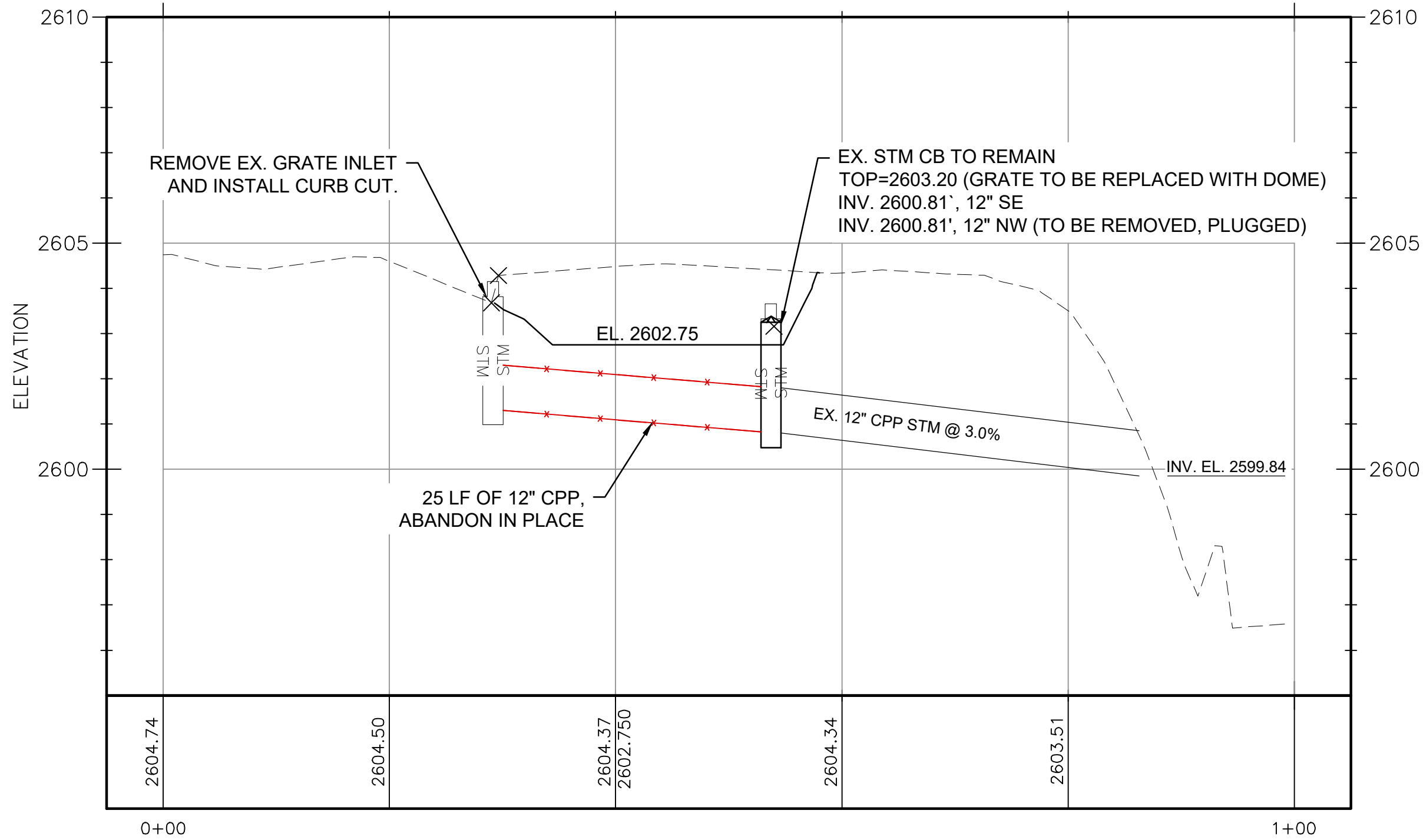
14 / 32



C:\USERS\GREGORY\ONE DRIVE - ACTUATES CAD FILES\HOSTING - ES ENGINEERING\B-0154 RICHLAND CREEK RESTORATION DESIGN\B-0154 RICHLAND CREEK RESTORATION DESIGN\B-0154 AREA 11 C-14 - 9/10/2026 4:50:19 PM - THAD GREGORY

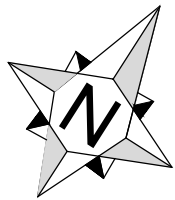


WORK AREA 11 - PLAN
SCALE: 1" = 10'



STORM WATER CAPTURE AREA - PROFILE
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'

GENERAL NOTES



**NOT FOR
CONSTRUCTION**

LEGEND

— P/L —	PROPERTY LINE
- - -	EX. CONTOURS
— — —	PROP. CONTOURS
— — —	EX. THALWEG
[Pattern]	EX. DELINEATED WETLAND
— STM —	EX. STORM SEWER
— SAN —	EX. SANITARY SEWER
— W —	EX. WATER MAIN
— OHE —	EX. OVERHEAD ELECTRIC
— T —	EX. TELECOM
— — —	EX. ACTIVE RAILROAD
[Tree]	EX. TREE TO REMAIN
- - - - -	EX. FEMA FLOODWAY
- - - - -	EX. FEMA FLOOD HAZARD AREA (100-YR)
- - - - -	EX. FEMA FLOOD HAZARD AREA (500-YR)
○	EX. SEWER OUTFALL
⊙	EX. STORM MANHOLE
⊙	EX. SANITARY MANHOLE
⊙	EX. UTILITY POLE
⊙	EX. GUY WIRE
[Box]	EX. TELECOM PEDESTAL
⊕ 2620	PROP. SPOT GRADE

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RICHLAND CREEK AND VANCE
GREENWAY RESTORATION

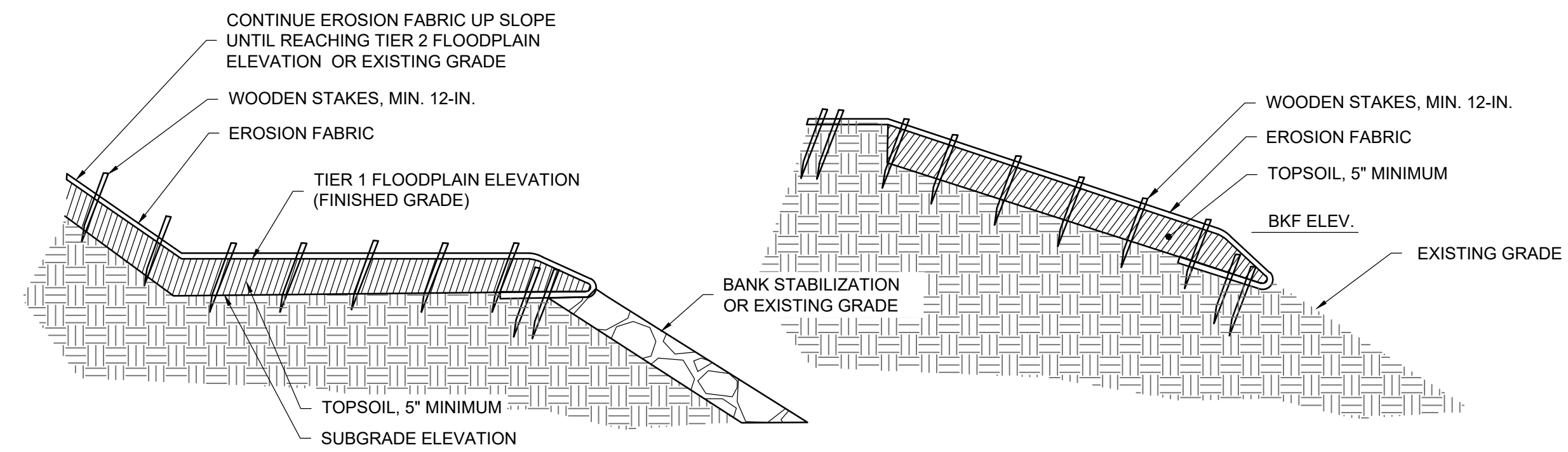
TOWN OF WAYNESVILLE
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PO BOX 100
WAYNESVILLE, NC 28786

RESTORATION PLAN

WORK AREA 11

DESIGNED BY:	ADH
DRAWN BY:	TG
CHECKED BY:	ET
DATE:	SEPTEMBER 2026
VERT. SCALE:	AS SHOWN
HORIZ. SCALE:	AS SHOWN

SHEET:
C-08
15 / 32



UPPER BANK PLANTINGS:

EXISTING STREAM BANK

LOWER BANK PLANTINGS:

GRADE AT 3:1

LIVE STAKING/BAREROOT TRENCH

TOE ROCK

ORDINARY HIGH WATER MARK

SUBSTRATE

COIR FABRIC

3.0/2.0 (PER PLAN)

1.0

A cross-sectional diagram of a log structure used for stream bank stabilization. The structure is built with logs stacked horizontally, secured by vertical live stakes. The logs are filled with backfill material, and waddy pins are used to hold the logs together. Branches are layered on top of the logs, and boulders are placed at the base. A horizontal line indicates the normal water level. Labels include: LIVE STAKES, NORMAL WATER, BACKFILL, LOG, BRANCH LAYERING, BOULDERS, and WODDY PINS.

A diagram of a river channel cross-section. The channel is bounded by a solid line on the left and a dashed line on the right. A dashed line runs along the bottom of the channel, labeled 'POOL'. A solid line runs along the top of the channel, labeled 'LOG'. A dashed line runs along the bottom of the channel, labeled 'BOULDERS'. A solid line runs along the top of the channel, labeled 'BRANCH LAYERING'. A dashed line runs along the bottom of the channel, labeled 'FLOW' with an arrow pointing downwards.

LOG CRIB STRUCTURES ARE DESIGNED TO PROVIDE ADDITIONAL STREAMBANK TOE STABILITY AS WELL AS ENHANCING HABITAT. LOG CRIBS ARE CONSTRUCTED FROM LOGS THAT CAN BE SIZED APPROPRIATELY FOR STREAM AND MEANDER, BEGIN AT THE TOE OF THE SLOPE IN THE MEANDER AS THE FOUNDATION BY LAYING LOGS ALONG THE GEOMETRY, PLACE WOODY PINS IN FRONT OF LOGS TO HOLD LOGS IN PLACE, BACKFILL IF NECESSARY WITH SUBSTRATE TO TOP OF LOG, PLACE LAYERS OF BRANCHES ON TOP OF LOG, PLACE SECOND ROW OF WOODY PINS BEHIND FIRST ROW OF LOGS SUCH THAT THEY PROTRUDE

HIGH ENOUGH TO CATCH THE NEXT ROW OF LOGS. PLACE SECOND ROW OF LOGS BEHIND AND ON TOP OF FIRST ROW. BE SURE NOT TO BUILD A VERTICAL LOG CRIB, SHOULD NOT BE STEEPER THAN 1:1. PLACE BRANCHES ON TOP OF LOG THEN USE WOOD PINS TO SECURE LOGS. REPEAT UNTIL THE DESIRED HEIGHT IS ACHIEVED. TYPICALLY THIS EXTENDS ABOVE BASE FLOW TO APPROXIMATELY ½ BANKFULL HEIGHT. THE LAST ONE OR TWO LIFTS OR IMMEDIATELY ABOVE BASE WATER LEVEL, BRANCHES CAN BE INTERMIXED WITH LIVE STAKES OR LIVE CUTTINGS.

GENERAL NOTES	
NOT FOR CONSTRUCTION	

NO.	REVISION/ISSUE	DATE

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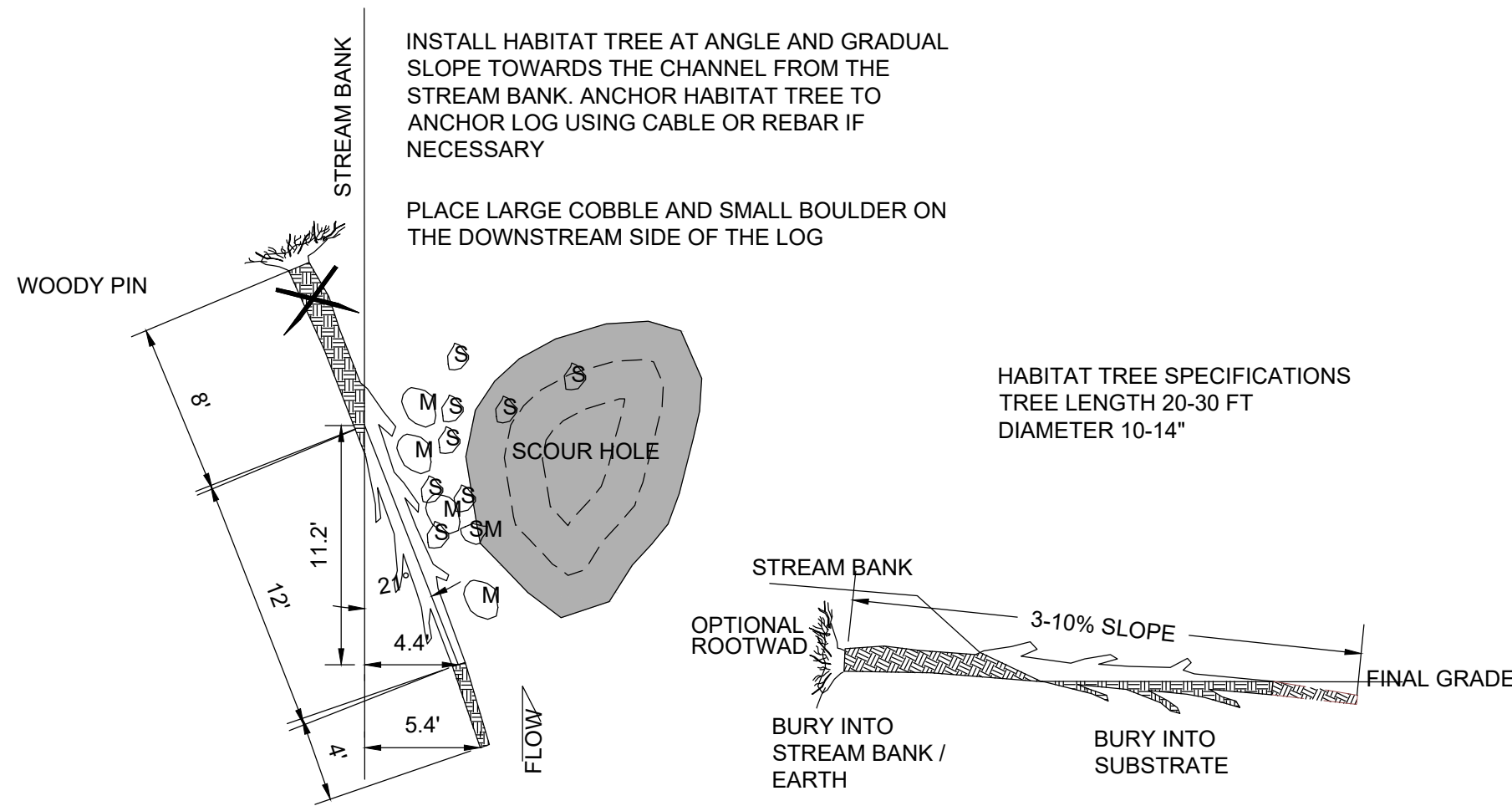
RICHLAND CREEK AND VANCE GREENWAY RESTORATION

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

STANDARD DETAILS

DESIGNED BY:	ADH
DRAWN BY:	TG
CHECKED BY:	ET
DATE: SEPTEMBER 2026	
VERT. SCALE:	NA
HORZ. SCALE:	NA

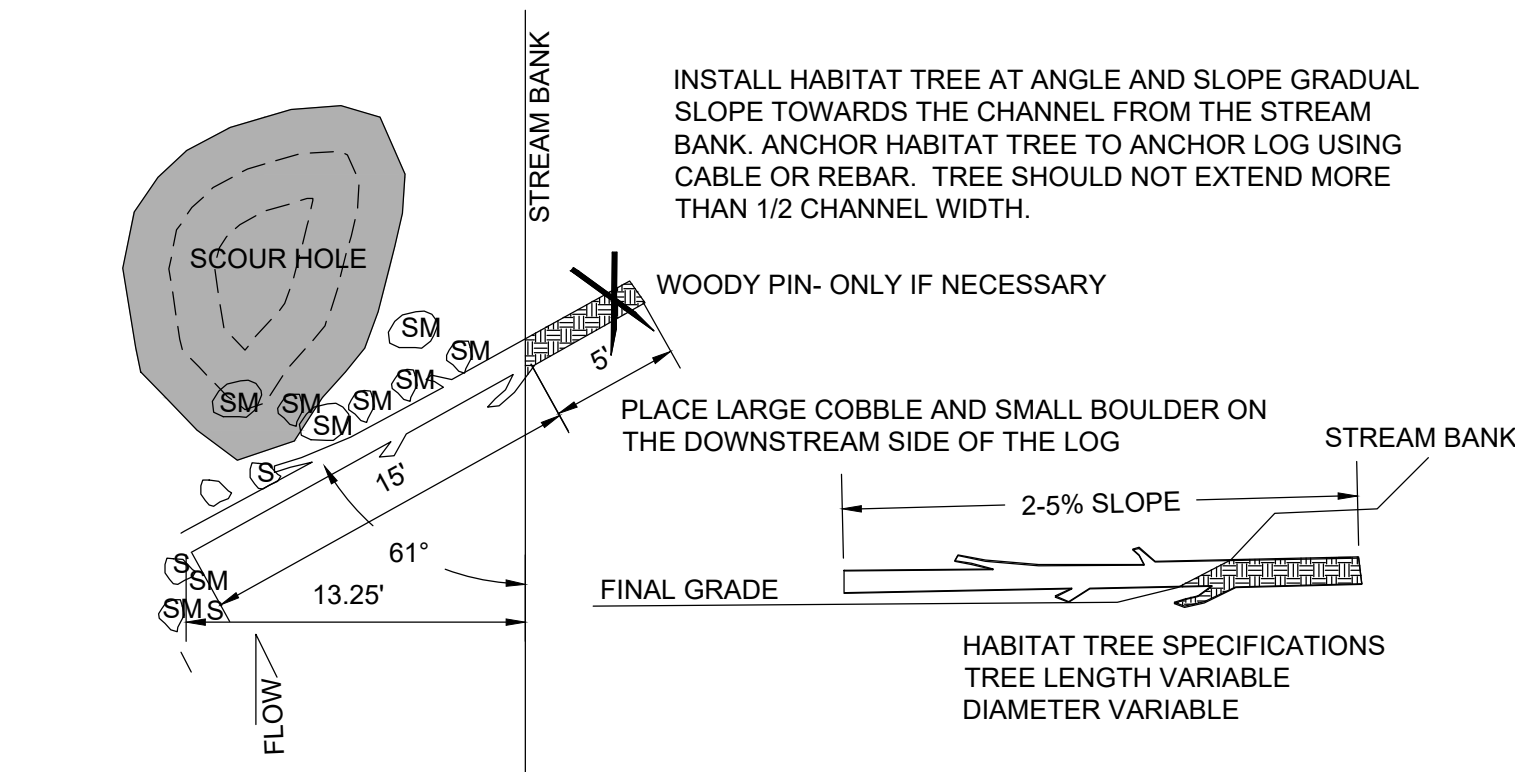
SHEET:	D-01
17	32



PLAN VIEW

BANK PROFILE

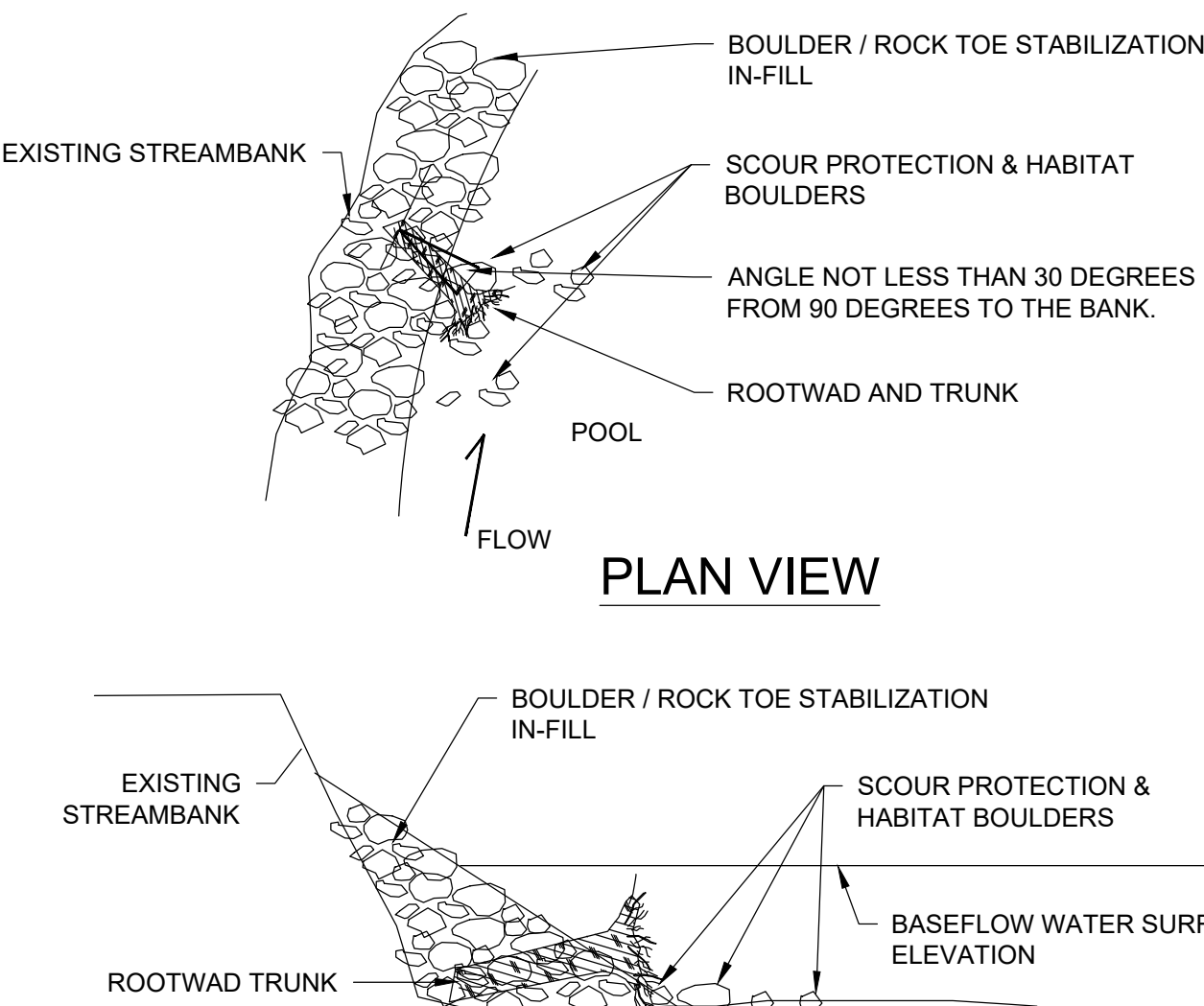
WOODY HABITAT #4 STREAMBED LOG/BOULDER HABITAT



PLAN VIEW

CROSS SECTION

WOODY HABITAT #3 ANGLED VANE

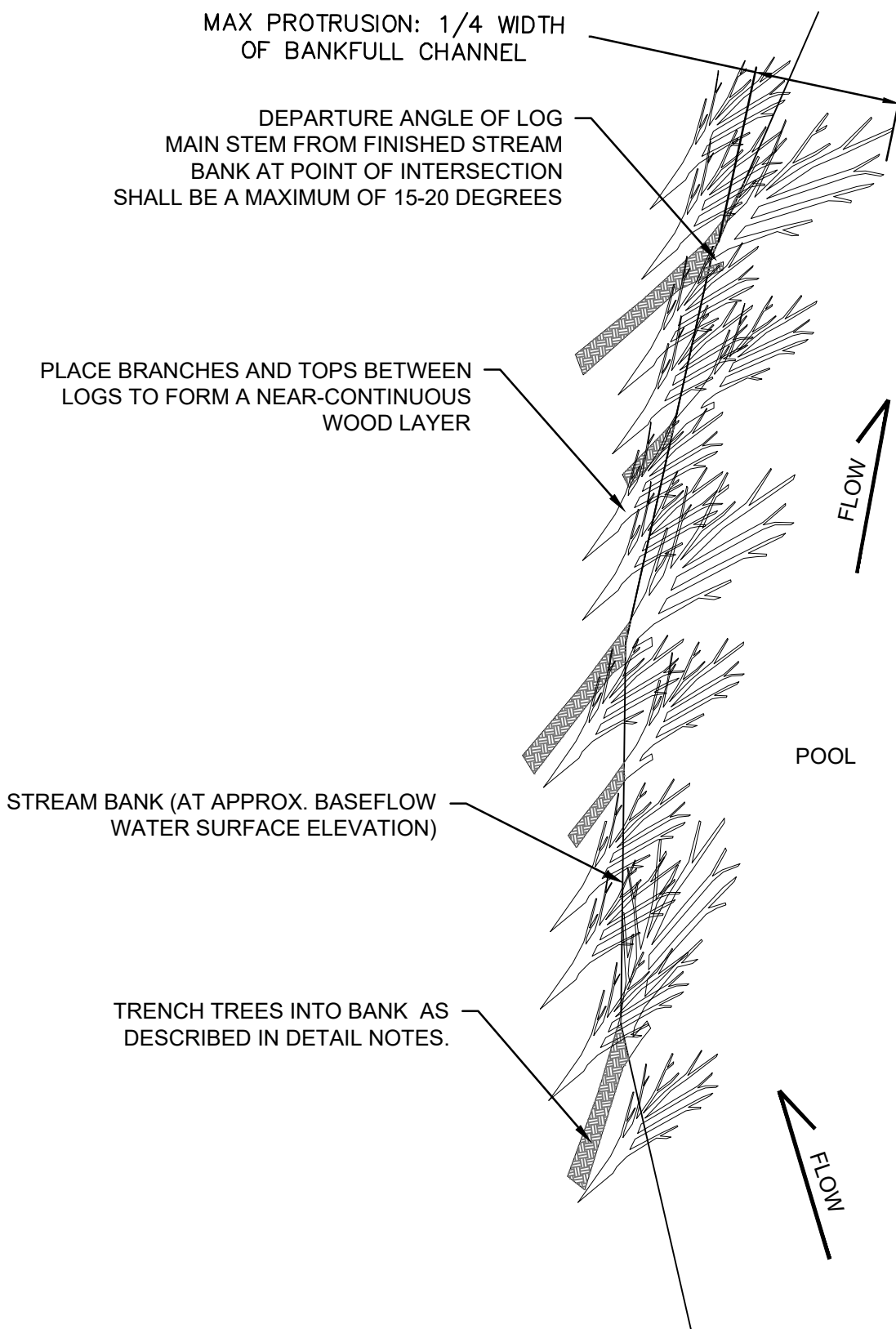


PLAN VIEW

CROSS SECTION

WOODY HABITAT #7
STREAMBANK ROOTWAD SCOUR POOL

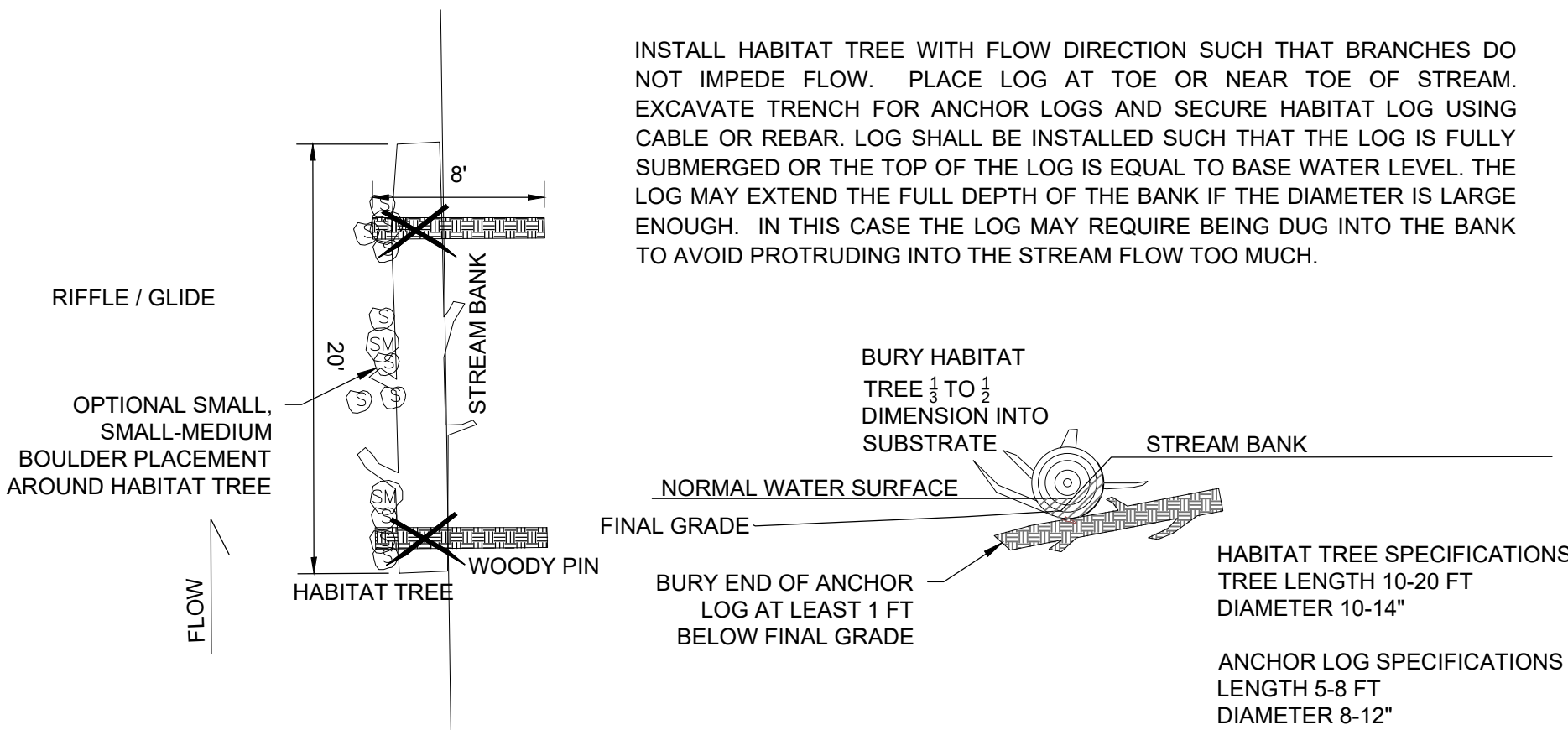
- NOTES:
- ROOTWAD SIZE SHALL BE OF LARGE TO MODERATE SIZED WITH A DIAMETER OF THE ROOTMASS AT LEAST 3.5 FT BUT NOT LARGER THAN 8 FT. THE TRUNK DIAMETER SHALL BE LARGER THAN 16 INCHES BUT NO LARGER THAN 3.0 FT. LENGTH OF THE TRUNK SHALL REMAIN FOR KEYING IN AND BURYING WITHIN THE ROCK STABILIZATION. TRUNK CAN BE CUT TO FIT TRENCH LENGTH BUT SHALL NOT BE SHORTER THAN 5 FT.
- CONSTRUCTION SEQUENCE:
- ROOTWAD AND TRUNK ARE TO BE INSTALLED WITHIN THE ROCK TOE STABILIZATION AT DESIGNATED LOCATIONS ON THE PLANS. LOCATION CAN BE SHIFTED IF NECESSARY WITH CONSULTATION OF OVERSIGHT REPRESENTATIVE. ROOTWAD SHALL NOT PROTRUDE GREATER THAN 4-5 FT FROM THE GEOMETRY OF THE BANK STABILIZATION TO MINIMIZE NEARR BANK SCOUR.
 - PLACE ROOTWAD AND TRUNK TRENCH ANGLE ORIENTED WITH ROOTWAD FACING UPSTREAM INTO FLOW AT ANGLE NOT LESS THAN 30 DEGREES FROM PERPENDICULAR. GREATER ANGLE FROM 90 DEGREES IS PERMISSIBLE DEPENDING ON LOCATION BUT NOT CLOSER OR MORE PERPENDICULAR TO FLOW.
 - TRUNK OF ROOTWAD SHALL BE PLACE ON FOOTER BOULDERS OF THE ROCK TOE STABILIZATION AT A SLIGHT DOWNWARD ANGLE. BACKFILL ROCK ON TOP OF THE TRUNK TO SECURE IN PLACE. ADDITIONAL WOODY PINS CAN BE USED TO SECURE TRUNK IF NECESSARY PRIOR TO BACKFILL.
 - ENSURE THAT FINAL ELEVATION OF THE ROOTWAD IS AT OR BELOW BASE FLOW WATER SURFACE ELEVATION. BASE WATER SURFACE ELEVATION IS DESIGNATED AS THE DOWNSTREAM RIFFLE CREST ELEVATION.
 - PLACE HABITAT BOULDERS DOWNSTREAM AND UPSTREAM OF ROOTWAD 10-15 BOULDERS TOTAL OF VARIOUS SIZES RANGING FROM LARGE TO MEDIUM.



PLAN VIEW

OUTSIDE MEANDER LOG HABITAT STRUCTURE TABLE					
STRUCTURE NUMBER	BANK	BEGIN STA	END STA	TOTAL LENGTH (LF)	CP 1
WT-1	LEFT	6+12	6+55	43	766.0'
WT-2	RIGHT	8+86	10+98	212	764.6'
WT-3	RIGHT	13+49	15+97	248	762.8'
WT-4	LEFT	27+98	30+29	231	759.0'

WOODY HABITAT #1 OUTSIDE MEANDER LOG/BRANCH HABITAT



PLAN VIEW

CROSS SECTION

WOODY HABITAT #5 SHALLOW BANK LOG HABITAT

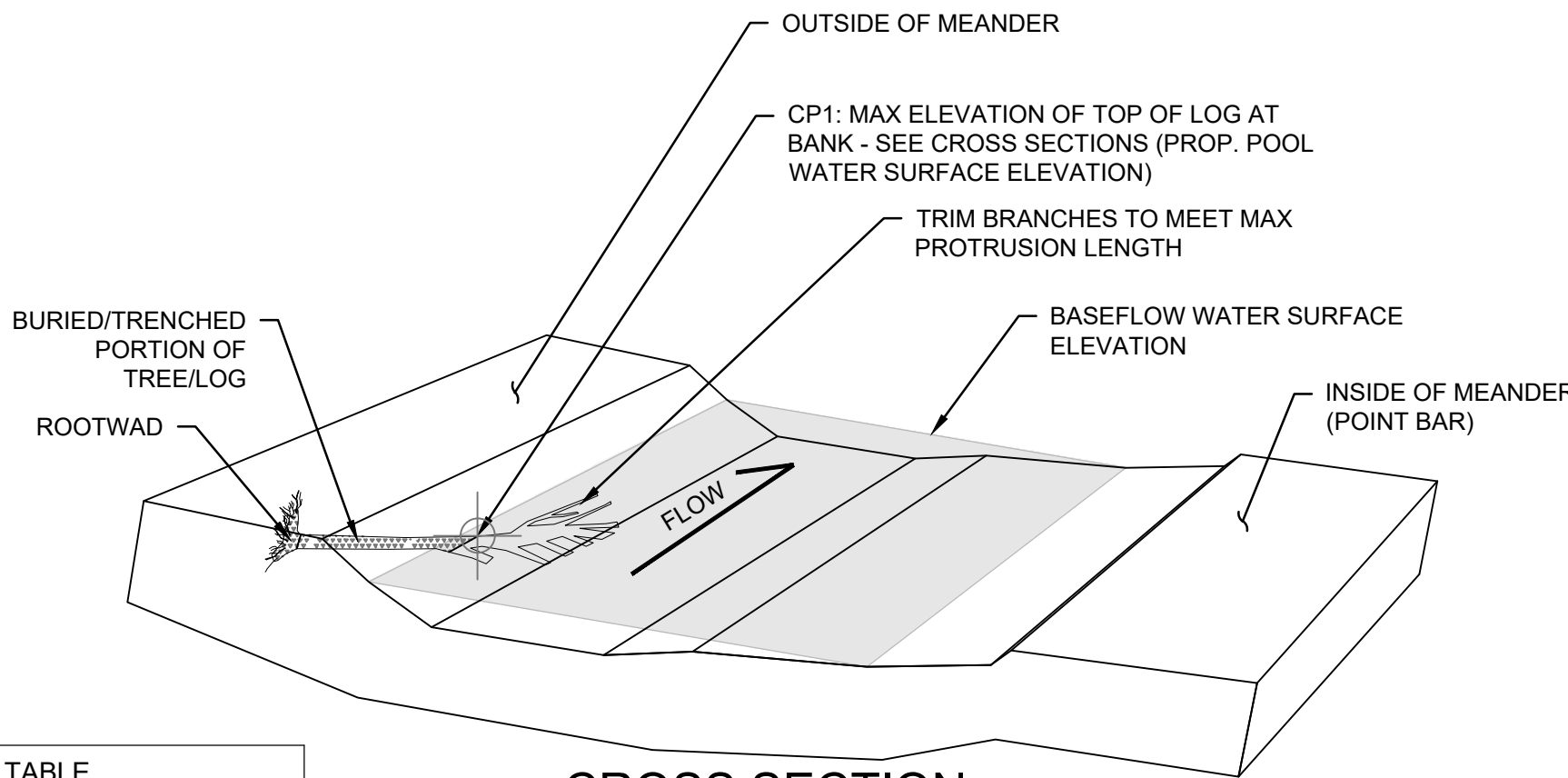
NOTES:

MATERIALS & SIZING:

- INSTALLED WOODY HABITAT SHALL BE SIZED APPROPRIATELY FOR THE SPECIFIC MEANDER GEOMETRY, SPECIFIC LOCATION, AVAILABILITY AND DIRECTION BY ENGINEER OR THE ENGINEER'S REPRESENTATIVE.
- MATERIAL SHALL BE A MINIMUM OF 15-FT IN LENGTH, WITH 5-FT OF THAT LENGTH TRENCHED INTO THE BANK.
- MATERIAL SHALL BE A MINIMUM OF 4 - 5 INCHES IN DIAMETER.
- ALL BRANCHES LESS THAN 3-INCHES IN DIAMETER SHALL BE REMOVED PRIOR TO INSTALLATION OF TREES/LOGS.
- WOODY MATERIAL REMOVED/HARVESTED FROM THE STREAM (EX. LOG JAM) CAN BE USED FOR THESE FEATURES.

INSTALLATION:

- WOODY HABITAT SHALL BE INSTALLED SUCH THAT A MINIMUM OF 90% OF ALL WOOD IS BELOW THE BASEFLOW WATER SURFACE ELEVATION.
- INSTALL TREE/LOG WITH ROOTWAD ATTACHED IF POSSIBLE
- PLACE ROCK SHOWN IN THESE DRAWINGS AS BELOW TREE/LOG PRIOR TO TREE/LOG PLACEMENT. CONTRACTOR SHALL NOT ASSUME THAT ROCK CAN BE PLACED BELOW TREE/LOG AFTER TREE/LOG IS ANCHORED.
- NO STAKING OR PINS ARE REQUIRED
- TRENCHING:
 - WOODY HABITAT WILL BE INSTALLED IN A DOWNSTREAM ORIENTATION
 - TRENCH ANGLE SHALL BE 15-20 DEGREES TO POINT OF INTERSECTION WITH FINISHED STREAM BANK
 - TRENCH SLOPE SHALL BE ANGLED DOWNWARD TO ENSURE STEM AND BRANCHES ARE BELOW THE POOL WATER SURFACE ELEVATION BUT NOT ALLOW THE BURIED PORTION OF THE TREE/LOG TO BE EXPOSED.
 - ANY ROCK TOE PROTECTION BELOW POOL WATER SURFACE ELEVATION SHOULD EB INSTALLED PRIOR TO TRENCHING
 - DO NOT OVER-EXCAVATE TRENCH
 - TRENCH SHALL BE BACKFILLED IN 9-INCH LIFTS WITH THE ORIGINAL MATERIAL AND COMPACTED WITH THE EXCAVATOR BUCKET TO ENSURE STABILITY
 - BRANCHES EXTENDING BEYOND THE MAX PROTRUSION CAN EITHER BE TRIMMED OR HINGE-CUT AND PINNED IN PLACE.



CROSS SECTION

GENERAL NOTES

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RICHLAND CREEK AND VANCE
GREENWAY RESTORATION

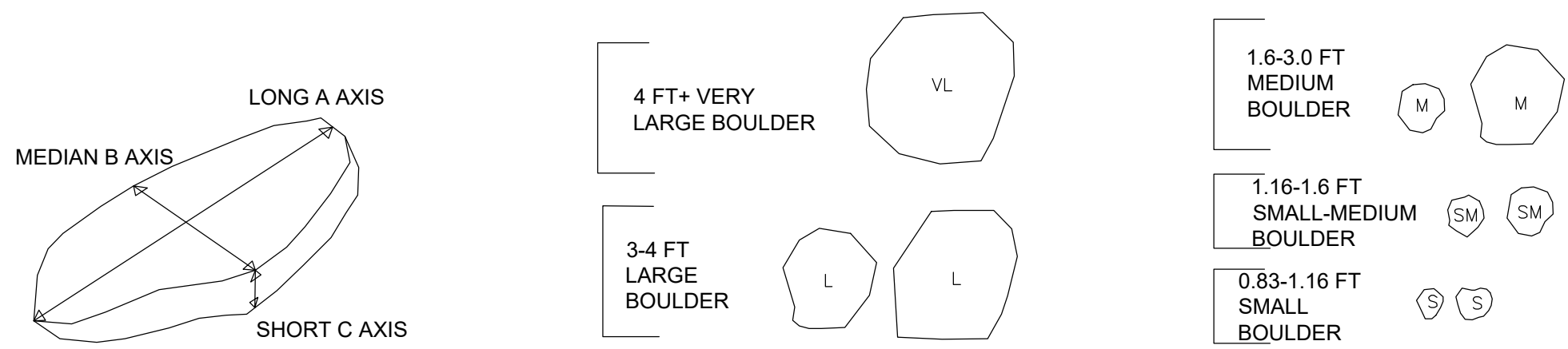
TOWN OF WAYNESVILLE
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PO BOX 100
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STANDARD DETAILS

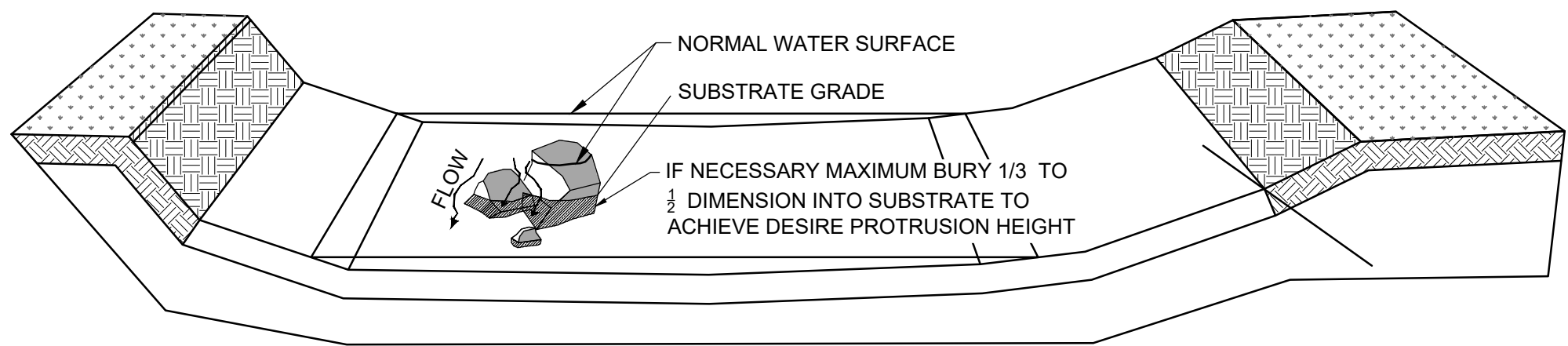
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DRAWN BY:	TG
CHECKED BY:	ET
DATE:	SEPTEMBER 2026
VERT. SCALE:	NA
HORZ. SCALE:	NA

SHEET:	D-02
18	32

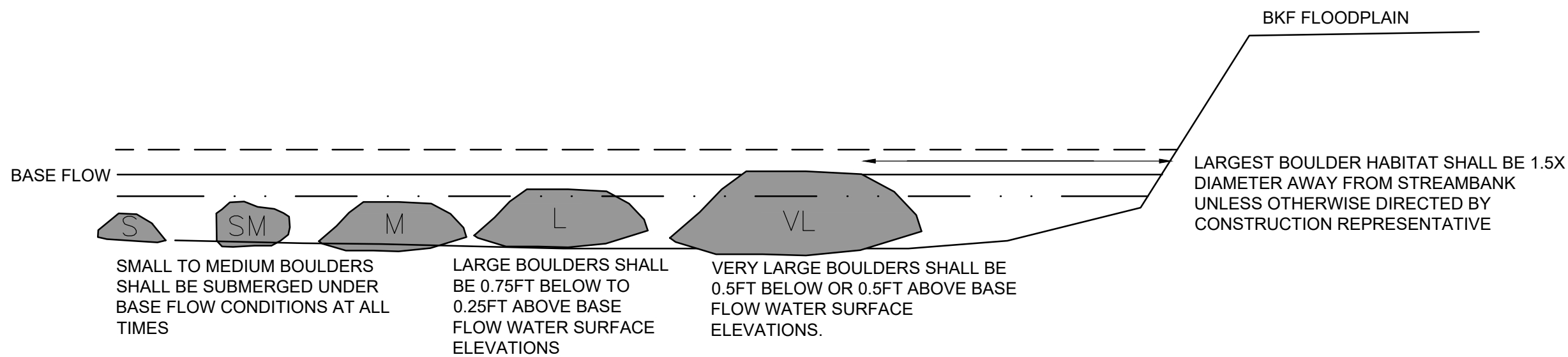
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TYPICAL BOULDER SIZES BY TYPE MEASURED BY MEDIAN B-AXIS

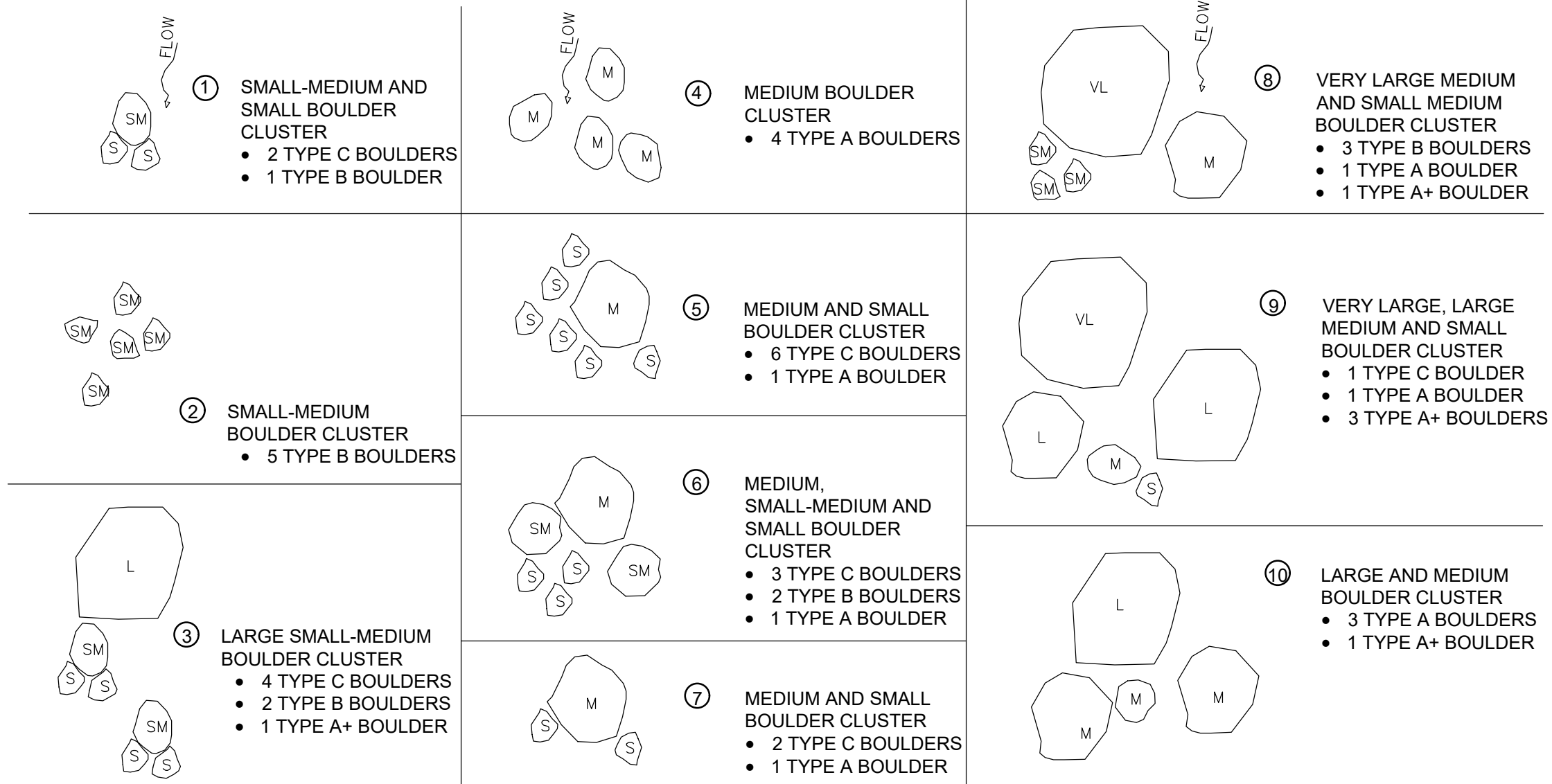


TYPICAL BOULDER HABITAT INSTALLATION
SUPPLEMENTAL BOULDERS AND BOULDER CLUSTERS



RIFFLE, RUN, GLIDE BOULDER HABITAT STREAMBED PROTRUSION DETAIL

NOTE: ALL BOULDER HABITAT TYPES SHALL BE FULLY SUBMERGED 1.5 FT MINIMUM BELOW WATER SURFACE ELEVATION IN POOL AREAS.



BOULDERS HABITATS ARE TO BE PLACED PER PLAN AND AT THE DISCRETION OF THE CONSTRUCTION REPRESENTATIVE. BOULDERS SHALL BE PLACED SUCH THAT THEIR PROTRUSION HEIGHT IS LESS THAN 1/3 BANKFULL HEIGHT IN A RIFFLE. BOULDERS PLACED INTO POOL HABITATS SHALL NOT PROTRUDE MORE THAN 1FT FROM FINISH GRADE ELEVATION UNLESS OTHERWISE DIRECTED. FLAT OR ANGULAR BOULDERS ARE PREFERRED TO ROUNDED BOULDERS. BOULDERS SHALL NOT BE PLACED IN A POSITION THAT CAUSES LATERAL SCOUR INTO A STREAMBANK. BOULDERS PLACED NEAR STREAMBANKS SHALL BE AT LEAST 1.5 BOULDER DIAMETER OF EXPOSED SURFACE FROM STREAMBANK.

BOULDER HABITATS (1-10)

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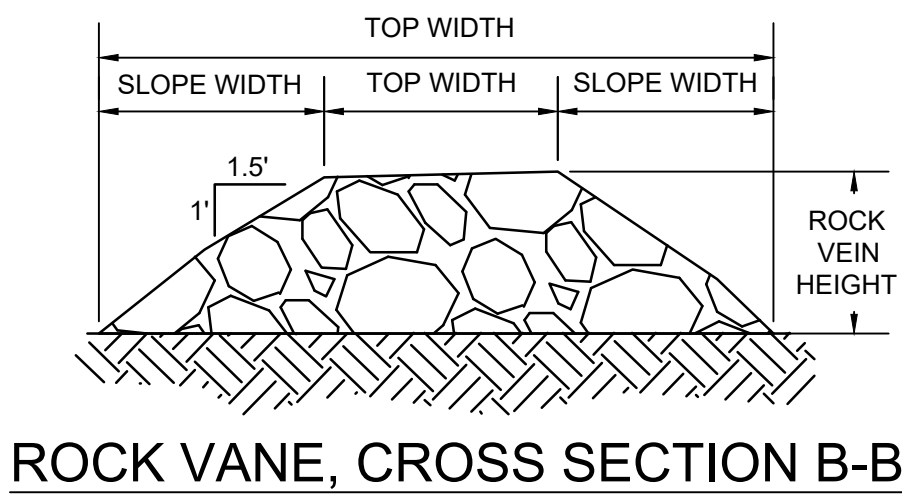
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GREENWAY RESTORATION

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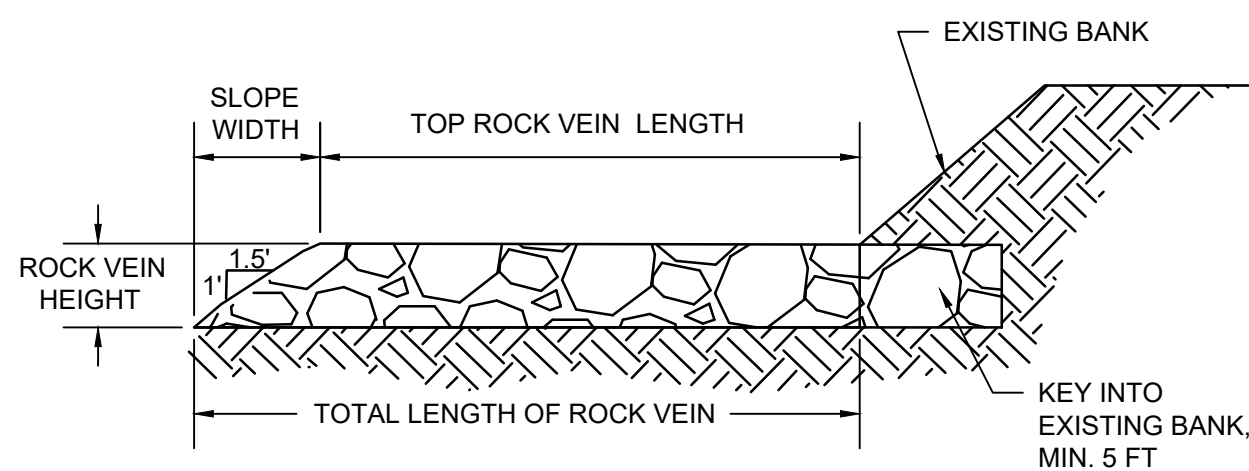
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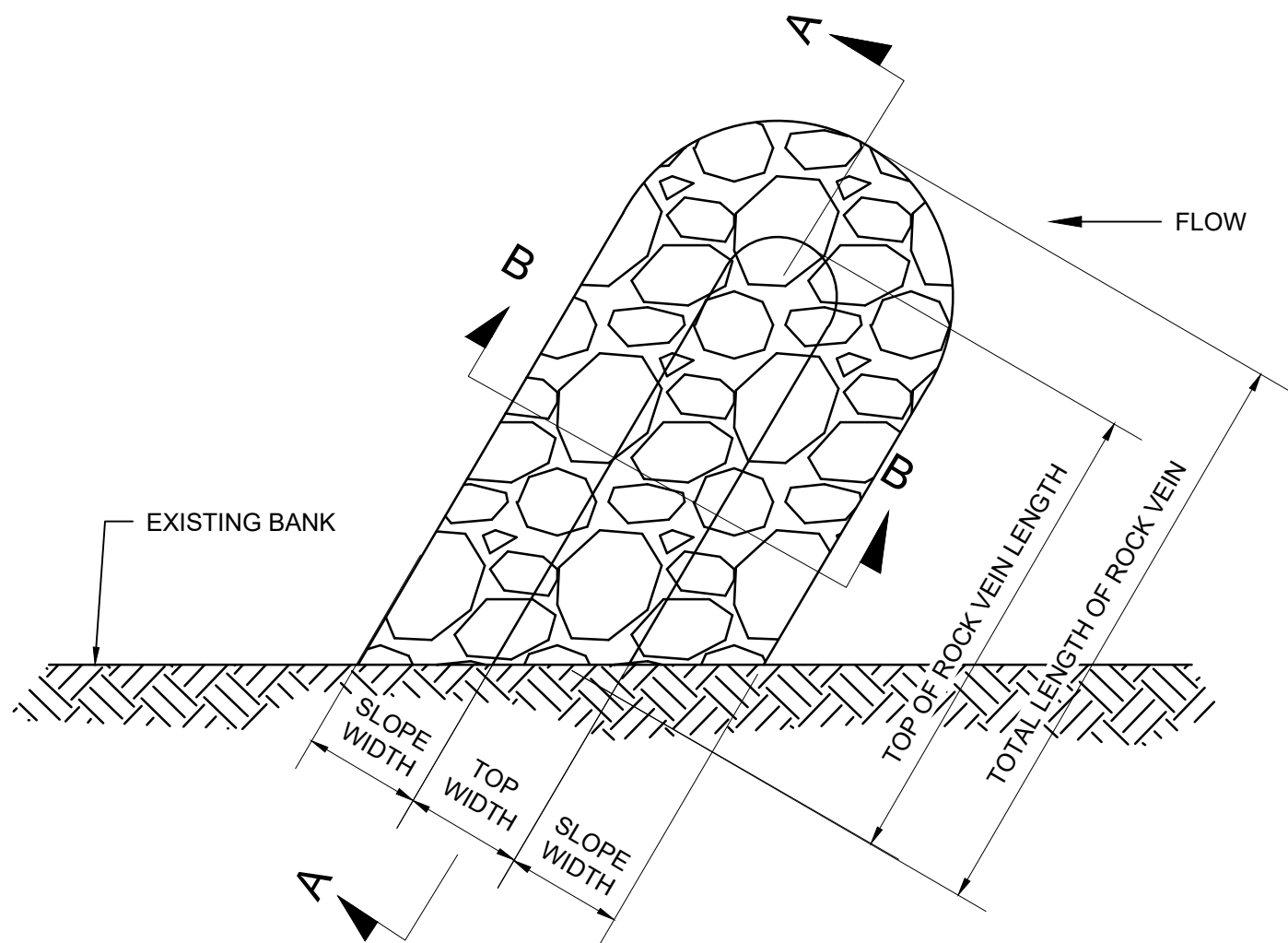
SHEET:
D-03
19 / 32



ROCK VANE, CROSS SECTION B-B

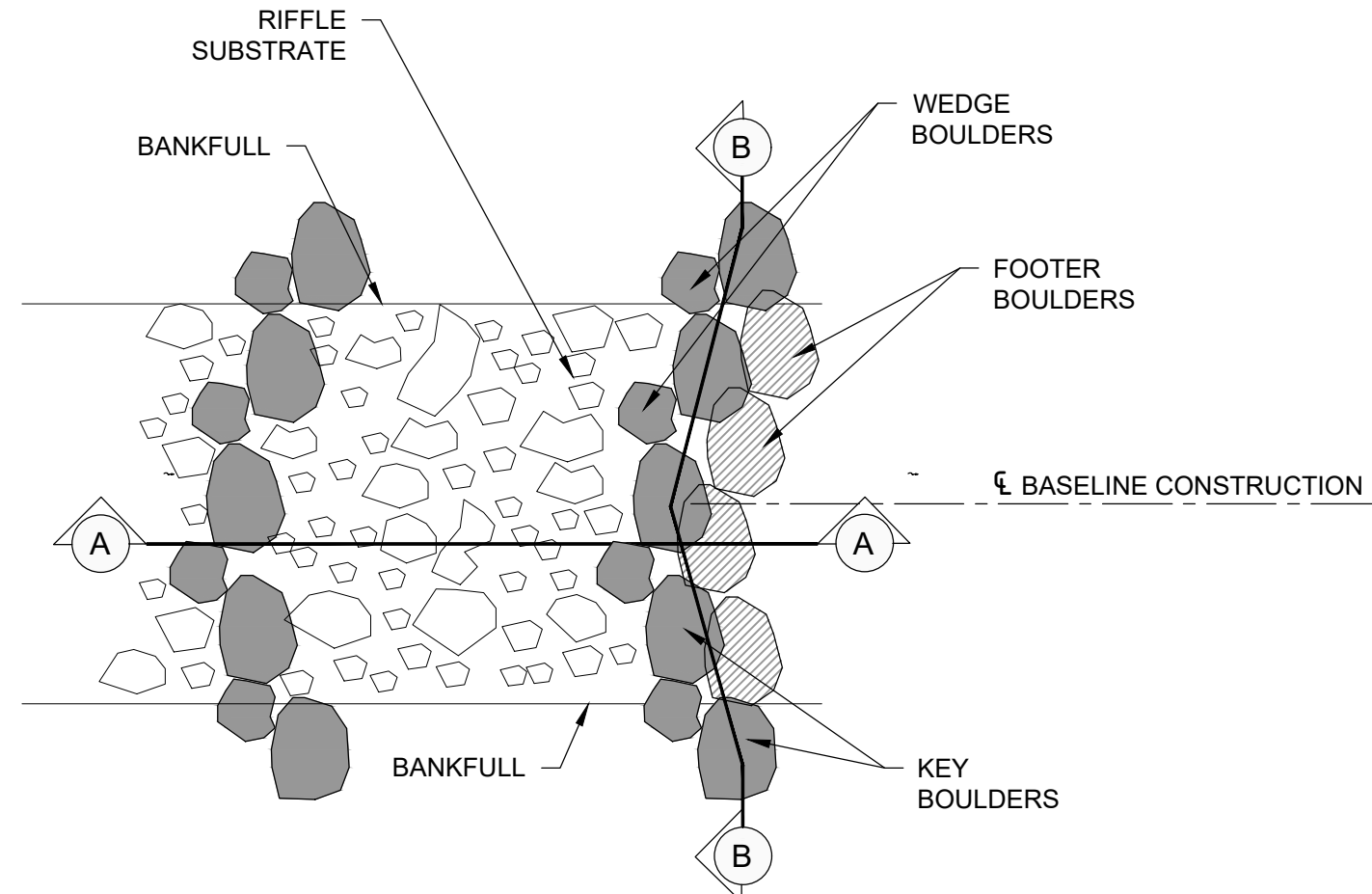


ROCK VANE, CROSS SECTION A-A

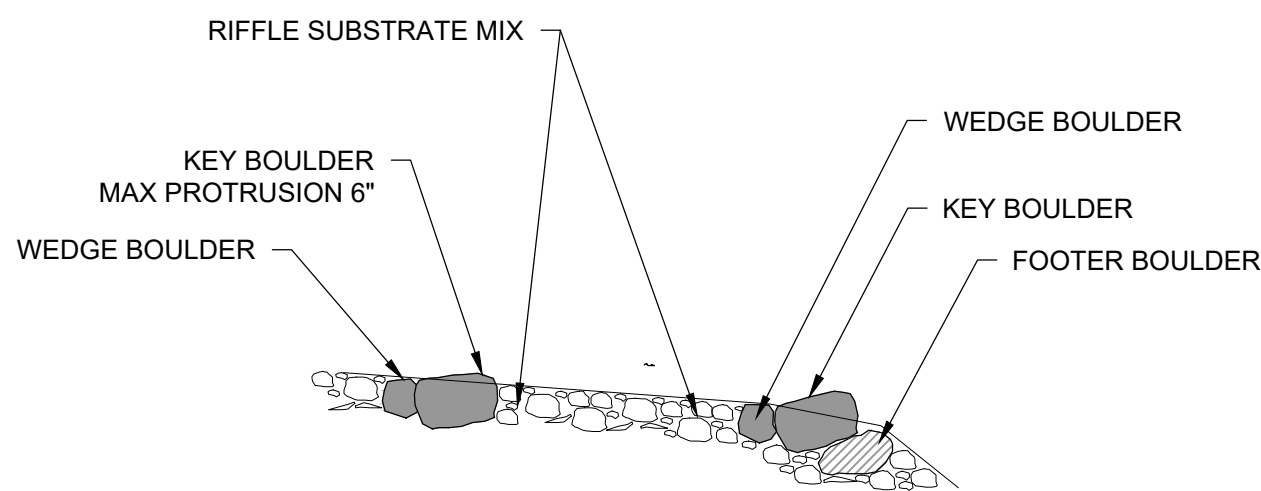


ROCK VANE - PLAN VIEW

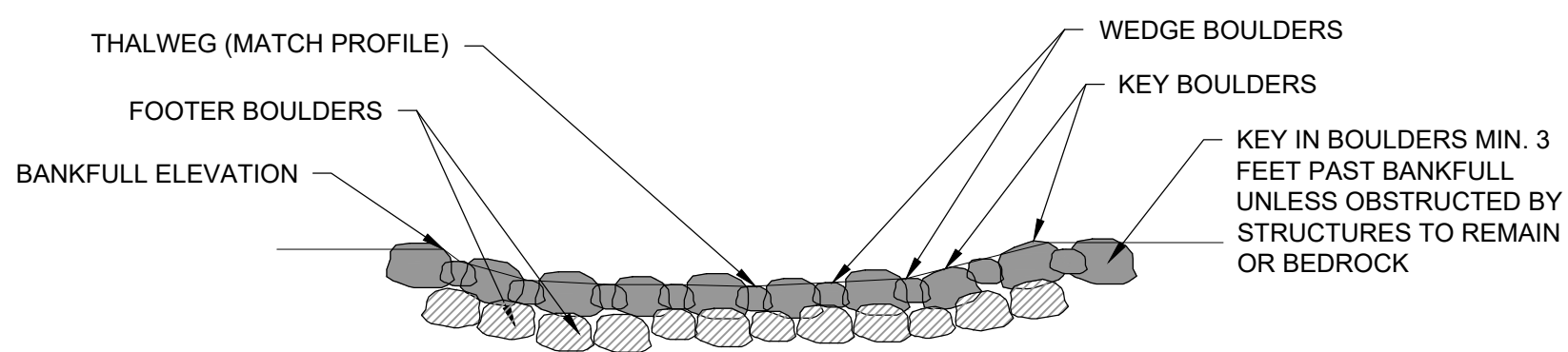
ROCK VANE - DETAIL
NOT TO SCALE



GRADE CONTROL PLAN VIEW



A GRADE CONTROL PROFILE VIEW



B GRADE CONTROL CROSS SECTION VIEW

- NOTES:
- FOOTER BOULDERS ARE ONLY REQUIRED IN GRADE CONTROLS AT THE DOWNSTREAM EXTENT OF RIFFLES. MID-RIFFLE GRADE CONTROLS DO NOT REQUIRE FOOTER BOULDERS. HOWEVER, GRADE CONTROL MATERIAL NEEDS TO BE EMBEDDED TO ACT AS A STRUCTURAL CONTROL TO HOLD THE SUBSTRATE MIX AND FINISH GRADES SHOULD BE FLUSH WITH THE RIFFLE AS TO NOT PRODUCE ANY UNNECESSARY TURBULENCE OR SCOUR.
 - ALL BOULDERS SHALL MEET THE FOLLOWING MINIMUM SIZE REQUIREMENTS:
 - FOOTER BOULDERS SHALL HAVE A MINIMUM DIMENSION ON ANY AXIS OF 36".
 - KEY BOULDERS SHALL HAVE A MINIMUM DIMENSION ON ANY AXIS OF 36".
 - WEDGE BOULDERS SHALL HAVE A MINIMUM DIMENSION ON ANY AXIS OF 24".
 - SEQUENCE OF CONSTRUCTION:
 - EXCAVATE AS NECESSARY TO ACCOMMODATE ALL BOULDERS.
 - FOOTER BOULDERS SHALL BE PLACED FIRST AND DOWNSTREAM OF THE FINISH GRADE BOULDER LOCATION SUCH THAT THE BOULDERS WILL LIE IN COMPRESSION. PLACE FOOTER BOULDERS SUCH THAT EACH BOULDER FITS SNUGLY AGAINST ADJACENT BOULDERS. FILL GAPS BETWEEN FOOTER BOULDERS WITH ALLUVIAL OR OTHER ROCK MATERIAL.
 - PLACE KEY BOULDERS SUCH THAT THEY ANGLE "BACK" UPSTREAM AND ARE FIRMLY SEATED ON FOOTER BOULDERS.
 - LEAVE A MAXIMUM OF 1-FOOT OF SPACE BETWEEN KEY BOULDERS. KEY BOULDERS SHALL PROTRUDE NO MORE THAN 6" ABOVE PROPOSED GRADE OF RIFFLE.
 - PLACE WEDGE BOULDERS BETWEEN KEY BOULDERS AND LOCK INTO PLACE WITH RIFFLE SUBSTRATE MIX. WEDGE BOULDERS SHALL MATCH THE TYPICAL CROSS SECTION AND PROPOSED GRADE SHAPE OF THE RIFFLE.

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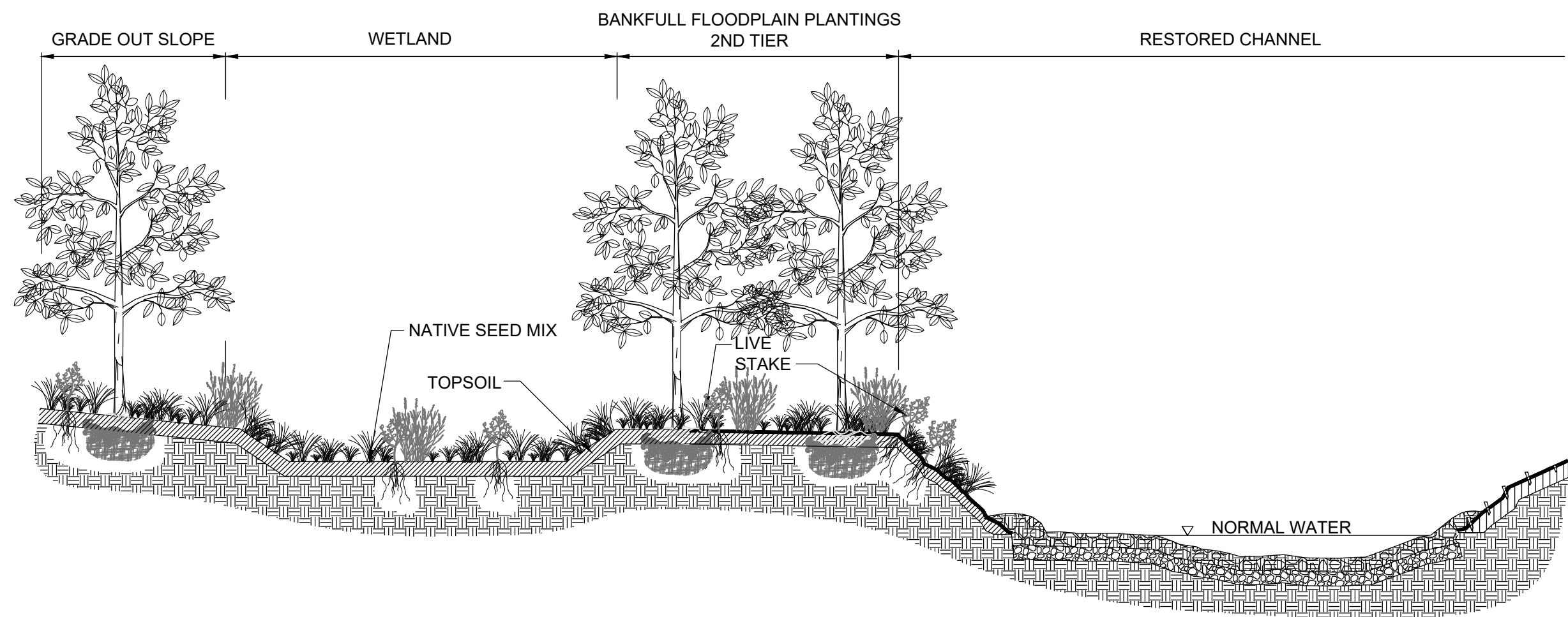
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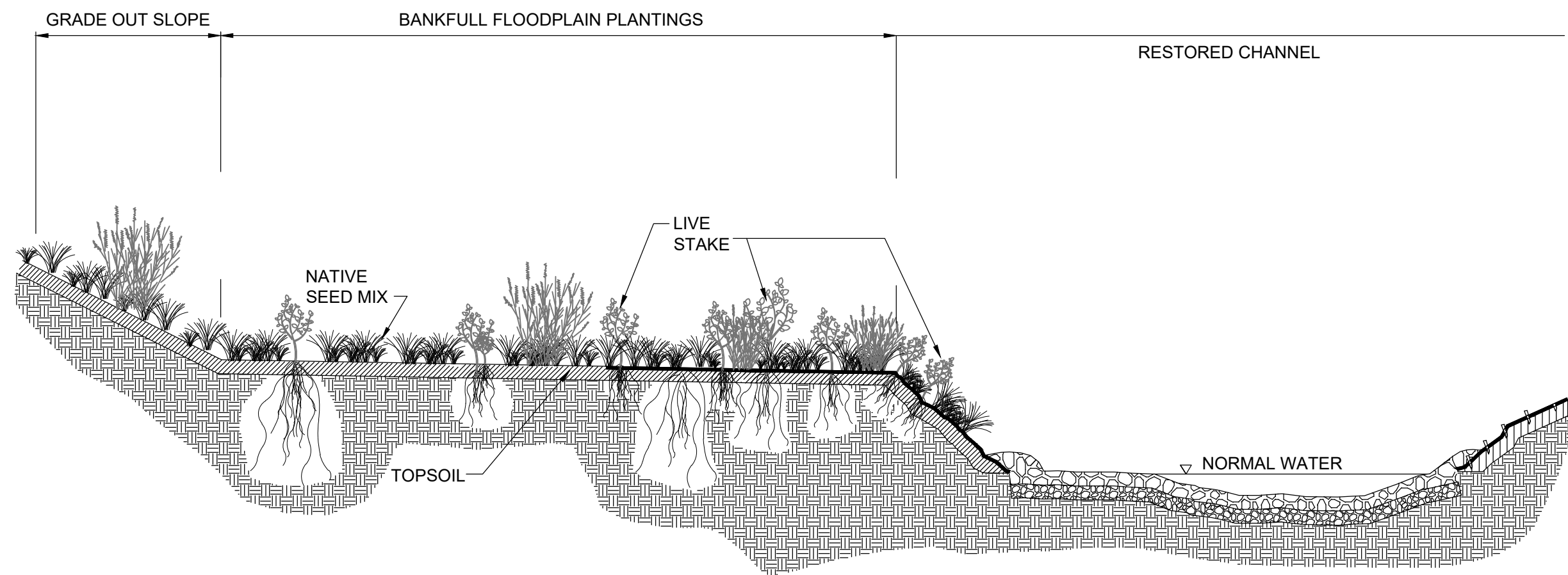
D-04

20 / 32

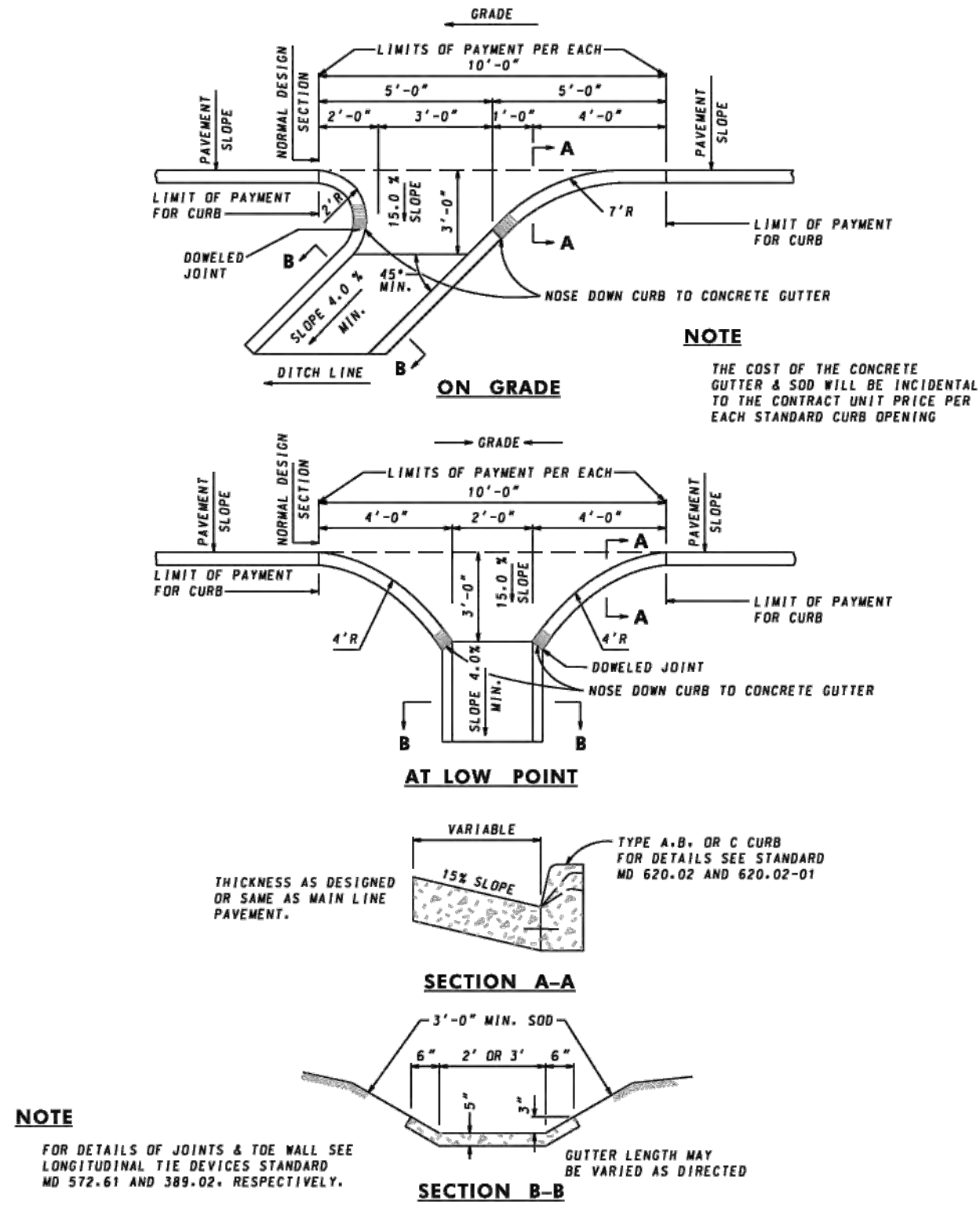
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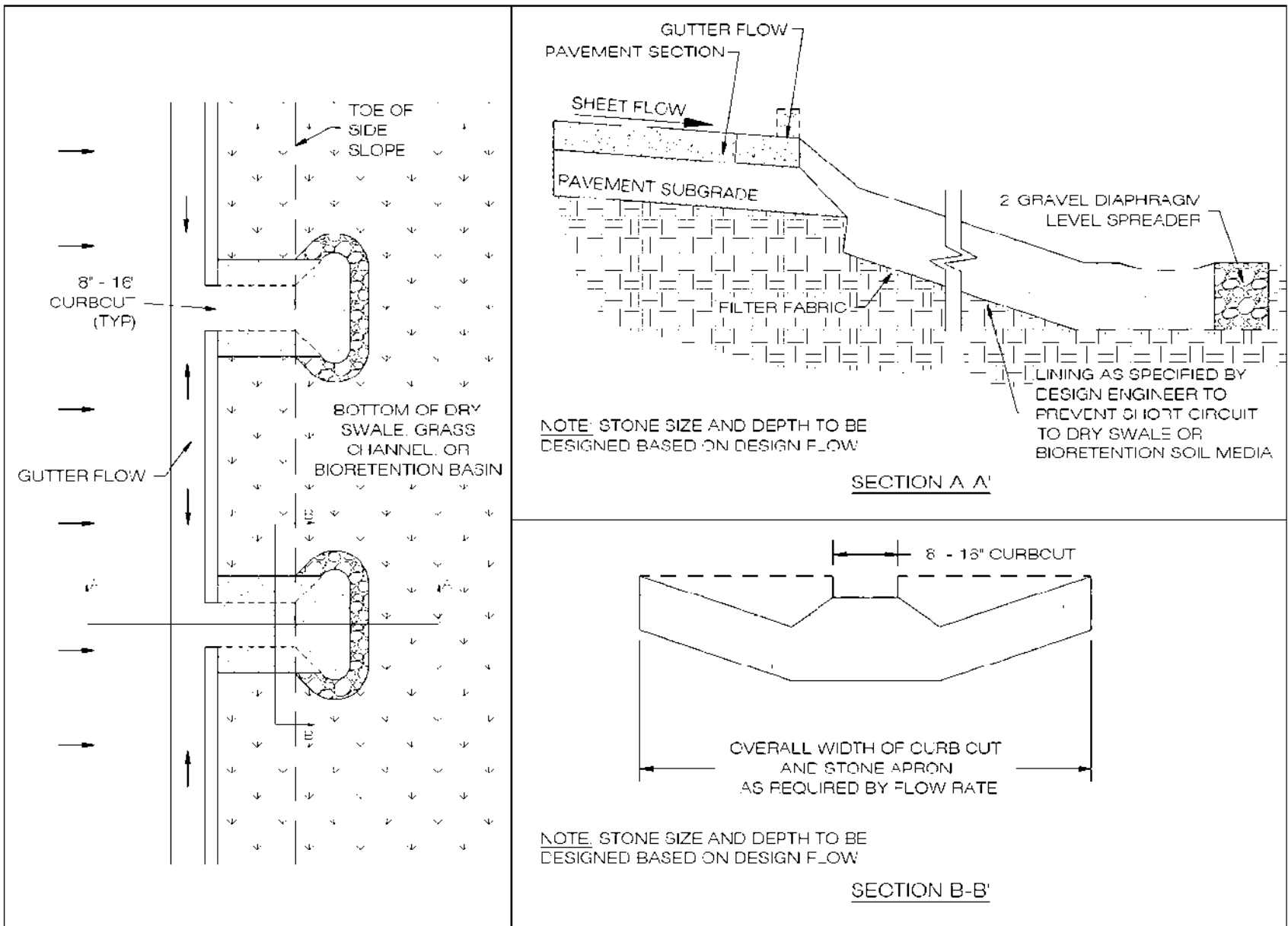
WETLAND PLANTING DETAIL



RESTORATION FLOODPLAIN PLANTING SCHEMATIC



CURB CUT PAVEMENT DETAIL



LEVEL SPREADER DETAIL

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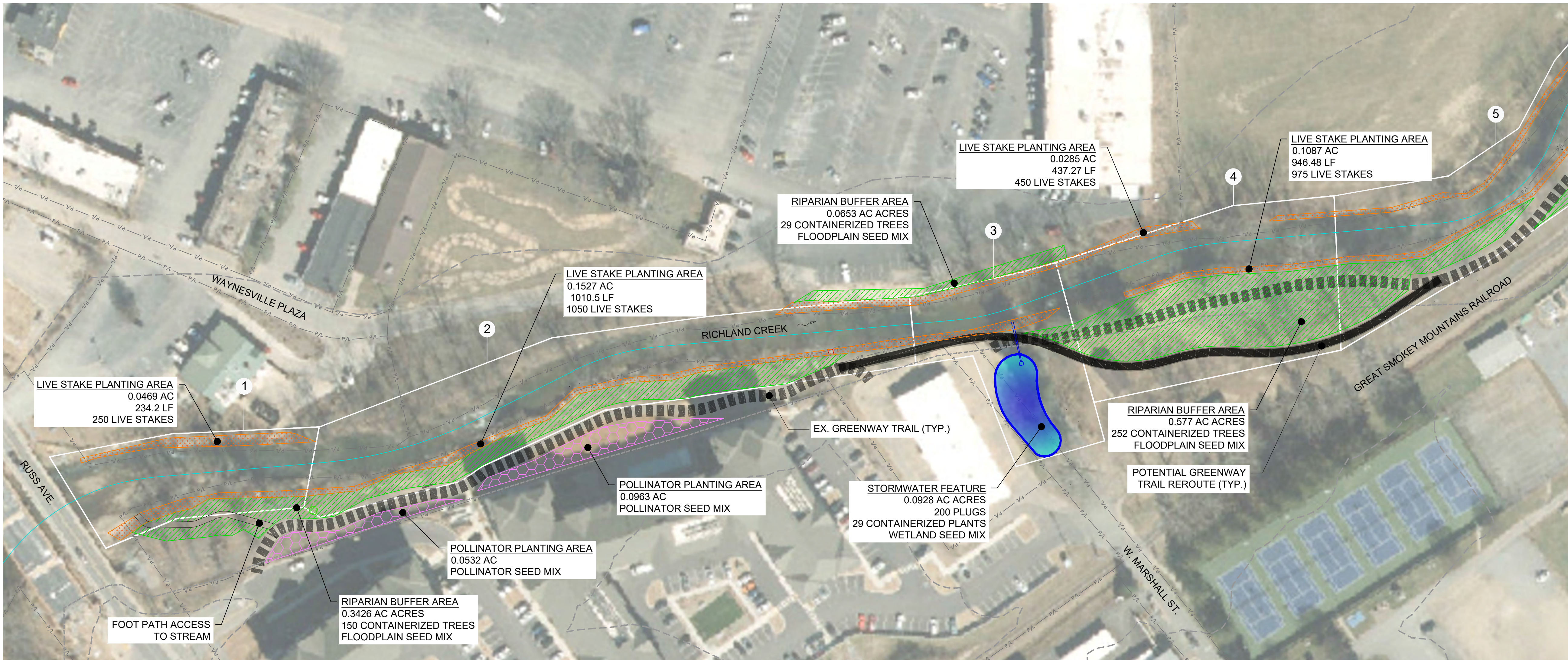
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DATE: SEPTEMBER 2026
VERT. SCALE: NA
HORZ. SCALE: NA

SHEET:
D-05
21 / 32



1. 5450 LIVES STAKES BASED ON 5265 LF WITH AN ASSUMPTION OF 3 ROWS PLANTED 3-FT O.C.
2. 1167 CONTAINERIZED TREES BASED ON 2.67 AC WITH AN ASSUMPTION OF 10-FT O.C. PLANTING.
3. 450 HERBACEOUS PLUGS BASED ON 0.20 AC WITH AN ASSUMPTION OF 4.5-FT O.C. PLANTING.

GENERAL NOTES



NOT FOR CONSTRUCTION

<u>LEGEND</u>	
	PROP. LIVE STAKE AREA 5265 LF
	PROP. RIPARIAN BUFFER 2.7 AC
	PROP. POLLINATOR AREA 0.26 AC
	PROP. RAIN GARDEN PLANTINGS' WETLAND SEED MIX 0.093 AC
	PROP. WETLAND RESTORATION AREA 0.05 AC
	EX. GREENWAY TRAIL
	PROP. GREENWAY TRAIL
	EX. FEMA FLOODWAY
	EX. FEMA FLOOD HAZARD AREA (100-YR)
	EX. FEMA FLOOD HAZARD AREA (500-YR)



GRAPHIC SCALE IN FEET

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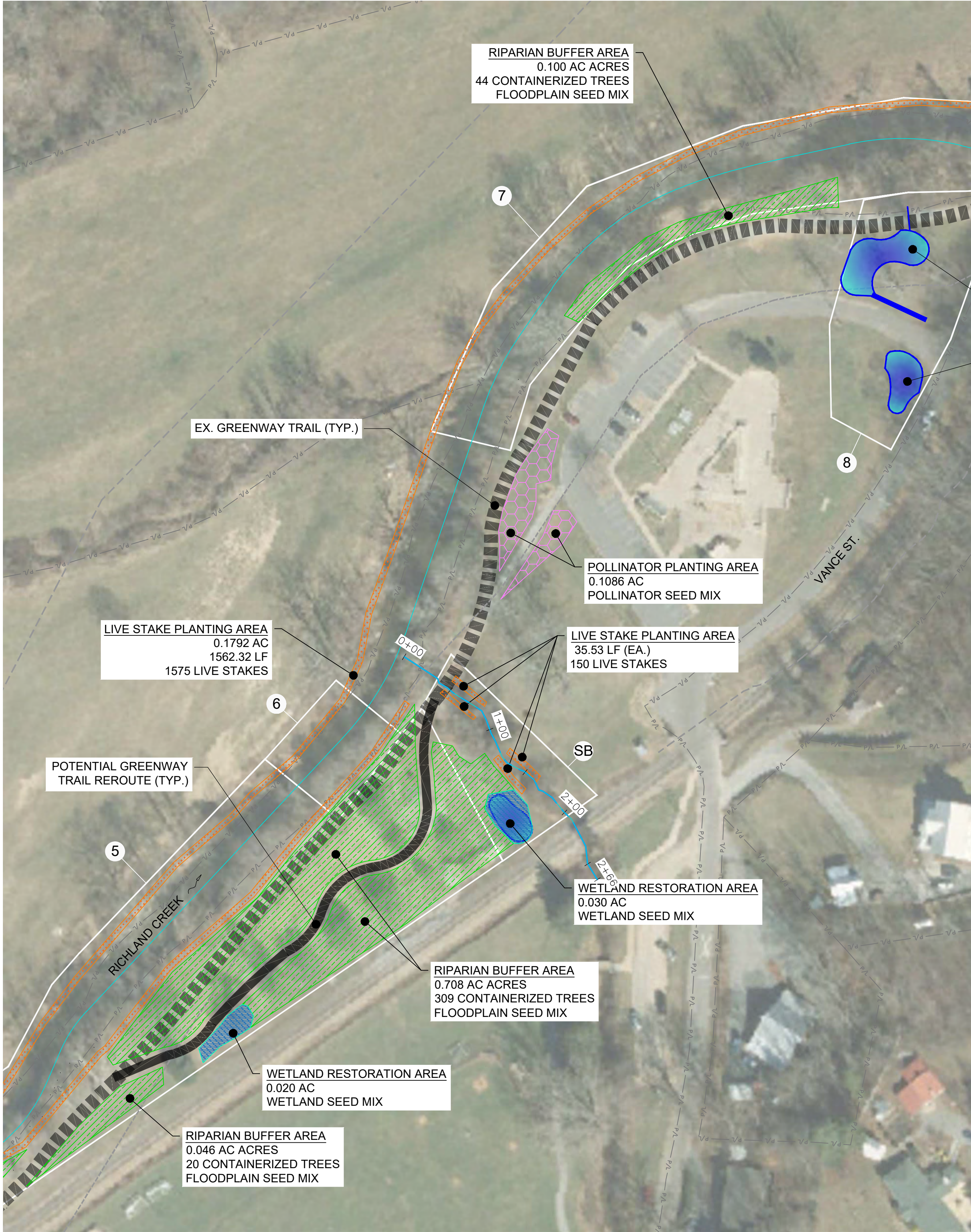
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GREENWAY RESTORATION**

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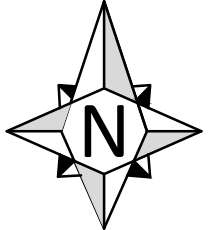
PLANTING AND SEEDING PLAN

DESIGNED BY:	ADH
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DATE: SEPTEMBER 2026	
VERT. SCALE:	NA
HORZ. SCALE:	1" = 60'



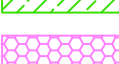
PROP. RAIN GARDEN
0.093 AC
200 HERBACEOUS PLUGS
WETLAND SEED MIX

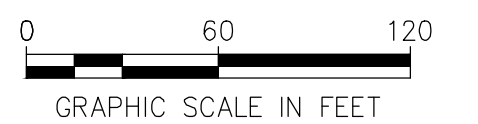
GENERAL NOTES



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CONSTRUCTION**

LEGEND

- | | |
|---|--|
|  | PROP. LIVE STAKE AREA
5265 LF |
|  | PROP. RIPARIAN BUFFER
2.7 AC |
|  | PROP. POLLINATOR AREA
0.26 AC |
|  | PROP. RAIN GARDEN
PLANTINGS/ WETLAND SEED
MIX 0.093 AC |
|  | PROP. WETLAND
RESTORATION AREA 0.05 AC |
|  | EX. GREENWAY TRAIL |
|  | PROP. GREENWAY TRAIL |
|  | EX. FEMA FLOODWAY |
|  | EX. FEMA FLOOD
HAZARD AREA (100-YR) |
|  | EX. FEMA FLOOD
HAZARD AREA (500-YR) |



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PLANTING AND SEEDING PLAN

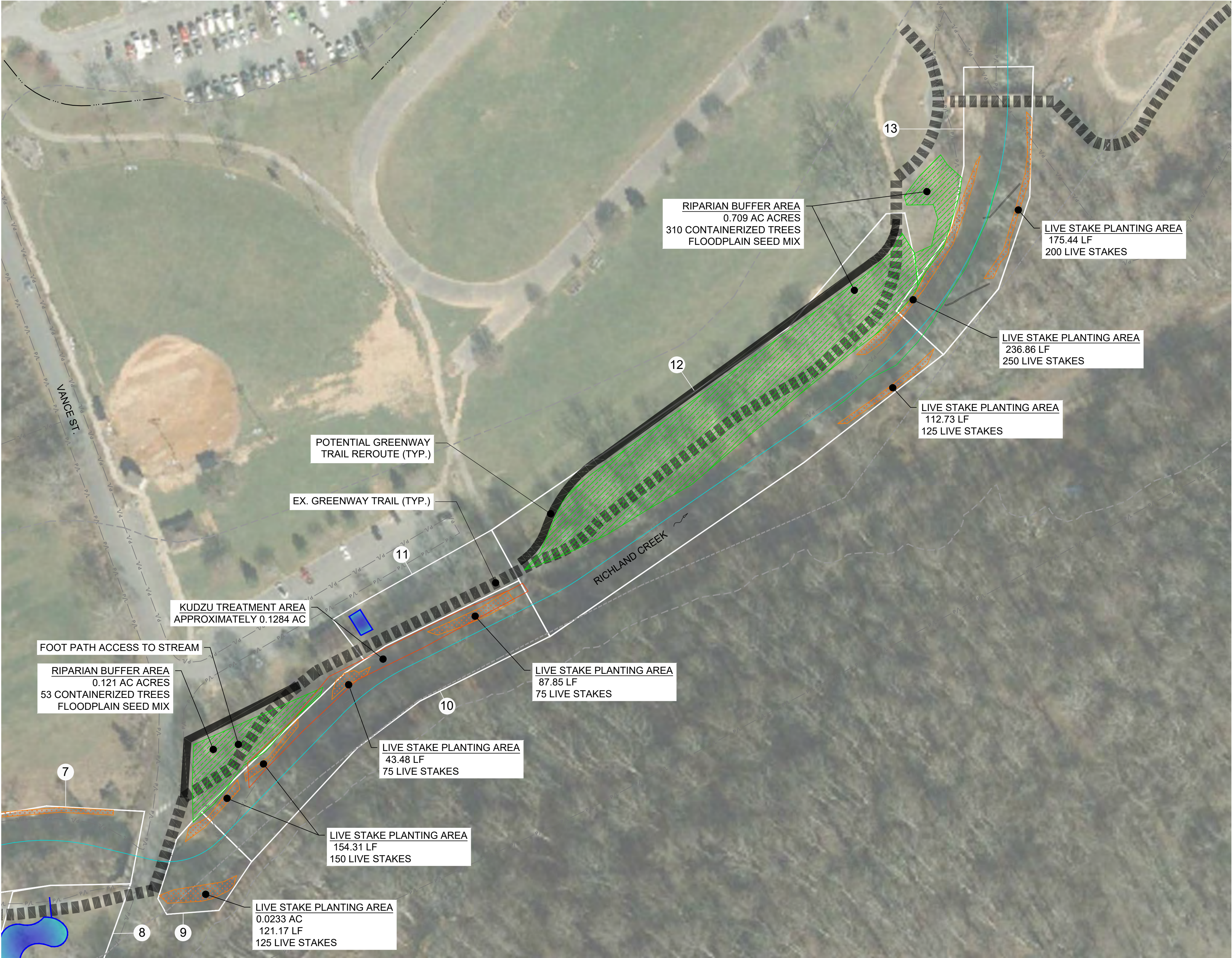
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CHECKED BY: ET

DATE: SEPTEMBER 2026

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HORZ. SCALE: 1" = 60'

SHEET:
PL-02
23 / 32

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GENERAL NOTES

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LEGEND

PROP. LIVE STAKE AREA
5265 LF

PROP. RIPARIAN BUFFER
2.7 AC

PROP. POLLINATOR AREA
0.26 AC

060120

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PLANTING AND SEEDING
PLAN

DESIGNED BY: ADH
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DATE: SEPTEMBER 2026

VERT. SCALE: NA
HORZ. SCALE: 1" = 60'

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PL-03

24 / 32

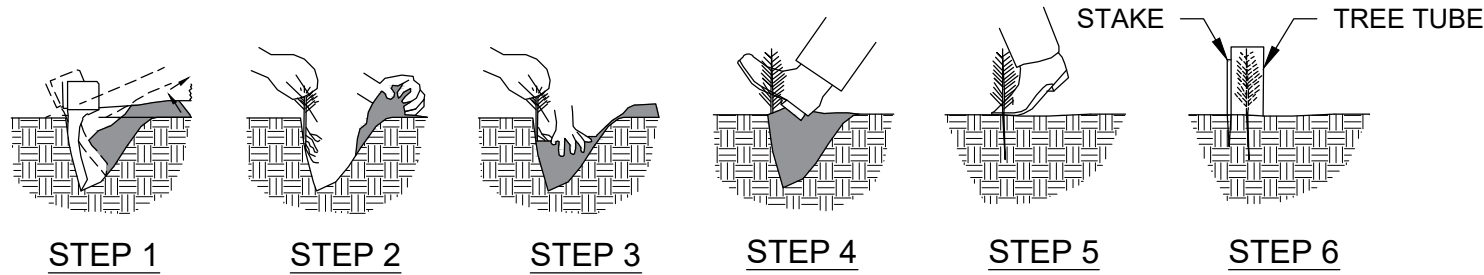
Trees					
Genus	Species	Common Name	Planting Group*	Moisture	Light
Acer	negundo	boxelder	1	moist - wet	Full sun
Acer	negundo	boxelder	2	moist - wet	Full sun
Acer	rubrum	red maple	1, 2	adaptable	Full sun
Asimina	triloba	pawpaw	2	moist - wet	part shade/shade
Betula	nigra	river birch	1, 2	moist - wet	Full sun
Betula	alleghaniensis	yellow birch/swamp birch	2	moist - wet	Full sun
Carpinus	caroliniana	American hornbeam	1, 2	moist - wet	adaptable
Halesia	tetraptera	silverbell	1	dry - moist	sun - part shade
Nyssa	sylvatica	black gum	2	adaptable	sun
Platanus	occidentalis	American sycamore	1, 2	moist	sun
Quercus	imbricaria	shingle oak	1, 2	adaptable	sun
Quercus	phellos	willow oak	2	adaptable	sun
Salix	nigra	black willow	1	moist - wet	sun
Swida	alnifolia	pagoda dogwood	2	dry - moist	part shade/shade
*Planting group: 1 = live stakes; 2 = containers; 3 = pollinator garden; 4 = stormwater/rain gardens					

Graminoids					
Genus	Species	Common Name	Planting Group*	Moisture	Light
Carex	cherokeensis	cherokee sedge	3, 4	dry - wet	adaptable
Chasmanthium	latifolium	river oats	3, 4	moist - wet	adaptable
Chasmanthium	laxum	slender spikegrass	3, 4	moist - wet	part shade - shade
Juncus	effusus	soft rush	4	moist - wet	adaptable
Panicum	virgatum	switchgrass	4	moist - wet	sun
Scirpus	atrovirens	green bulrush	4	moist - wet	adaptable
Scirpus	cyperinus	woolgrass	4	moist - wet	sun
*Planting group: 1 = live stakes; 2 = containers; 3 = pollinator garden; 4 = stormwater/rain gardens					

Shrubs					
Genus	Species	Common Name	Planting Group*	Moisture	Light
Aronia	arbutifolia	red chokecherry	1, 2, 4	moist - wet	full sun
Callicarpa	americana	American beautyberry	2	dry - moist	full sun
Calycanthus	floridus	Carolina allspice	2	moist	part sun - shade
Cephalanthus	occidentalis	Buttonbush	1	moist - inundated	full sun
Cephalanthus	occidentalis	Buttonbush	2, 4	moist - inundated	full sun
Clethra	acuminata	mountain sweet-pepperbush	2	moist	part sun - shade
Hamamelis	virginiana	eastern witch-hazel	2	dry - moist	adaptable
Ilex	verticillata	winterberry holly	2, 4	Dry - moist	sun - part shade
Itea	virginica	Virginia sweetspire	1	moist - wet	adaptable
Itea	virginica	Virginia sweetspire	2, 4	moist - wet	adaptable
Lindera	benzoin	spicebush	1, 2, 4	moist - wet	adaptable
Physocarpus	opulus	ninebark	1	adaptable	sun - part shade
Physocarpus	opulus	ninebark	2, 4	adaptable	sun - part shade
Rhododendron	arborescens	sweet azalea	2, 4	moist	adaptable
Rosa	palustris	swamp rose	1	moist - wet	sun - part shade
Salix	sericea	silky willow	1	moist - wet	sun
Sambucus	canadensis	elderberry	1	moist - wet	sun - part shade
Spiraea	tomentosa	steeplebush	2, 4	moist - wet	sun
Spiraea	latifolia	meadowsweet	2, 4	moist - wet	sun
Swida	amomum	silky dogwood	1	moist - wet	sun - part shade
Viburnum	cassinoides	northern wild raisin	1	moist - wet	sun - part shade
Viburnum	dentatum	arrow-wood	2	moist - dry	sun - part shade
Viburnum	nudum	possumhaw	1	moist - wet	sun - part shade
Viburnum	nudum	possumhaw	2, 4	moist - wet	sun - part shade
Viburnum	prunifolium	black haw	2	dry - moist	sun - part shade
*Planting group: 1 = live stakes; 2 = containers; 3 = pollinator garden; 4 = stormwater/rain gardens					

Forbs					
Genus	Species	Common Name	Planting Group*	Moisture	Light
Anacis	tripteris	tall coreopsis	3, 4	moist - wet	sun - part shade
Asclepias	exaltata	poke milkweed	3, 4	moist	part shade
Asclepias	incarnata	swamp milkweed	3, 4	moist - wet	sun
Asclepias	tuberosa	butterfly milkweed	3	dry - moist	sun
Conoclinium	coelestinum	blue mistflower	3, 4	moist - wet	sun - part shade
Eupatorium	perfoliatum	Boneset	3, 4	moist - wet	sun
Eutrochium	spp.	Joe-Pye-weed	3, 4	moist - wet	sun - part shade
Eryngium	yuccifolium	rattlesnake master	3, 4	dry - moist	sun
Hibiscus	moscheutos	eastern rose-mallow	3, 4	moist - wet	sun - part shade
Helianthus	angustifolius	narrow leaf sunflower	3, 4	moist - wet	sun
Iris	shrevei	midwestern blue flag	3	moist - wet	sun - part shade
Lobelia	cardinalis	cardinal flower	3, 4	moist - wet	adaptable
Lobelia	siphilitica	great blue lobelia	3, 4	moist - wet	adaptable
Mimulus	ringens	monkey flower	4	moist - wet	full sun
Mondarda	fistulosa	Appalachian bergamot	3, 4	moist	full sun
Peltandra	virginica	green arrow-arum	4	wet - inundated	adaptable
Pontedaria	cordata	pickerelweed	4	wet - inundated	sun - part shade
Pycnanthemum	muticum	white mountain mint	3, 4	moist	full sun
Pycnanthemum	virginianum	Virginia mountain mint	3, 4	moist	full sun
Rudbeckia	laciniata	cutleaf coneflower	3, 4	moist - wet	sun - part shade
Rudbeckia	triloba	three-lobed coneflower	3, 4	moist	sun - part shade
Sagittaria	latifolia	Arrowhead	3, 4	wet - inundated	sun - part shade
Saururus	cernuus	lizard's-tail	4	wet - inundated	adaptable
Solidago	juncea	early goldenrod	4	moist	sun
Solidago	rugosa	rough goldenrod	3, 4	moist - wet	sun - part shade
Silphium	perfoliatum	cup plant	3, 4	moist - wet	sun - part shade
Symphyotrichum	novae-angliae	New England aster	3, 4	moist - wet	sun
Symphyotrichum	puncieum	swamp aster	4	moist - wet	sun
Verbena	hastata	blue vervain	3, 4	moist - wet	sun
Vernonia	noveboracensis	NY ironweed	3, 4	moist - wet	sun - part shade
*Planting group: 1 = live stakes; 2 = containers; 3 = pollinator garden; 4 = stormwater/rain gardens					

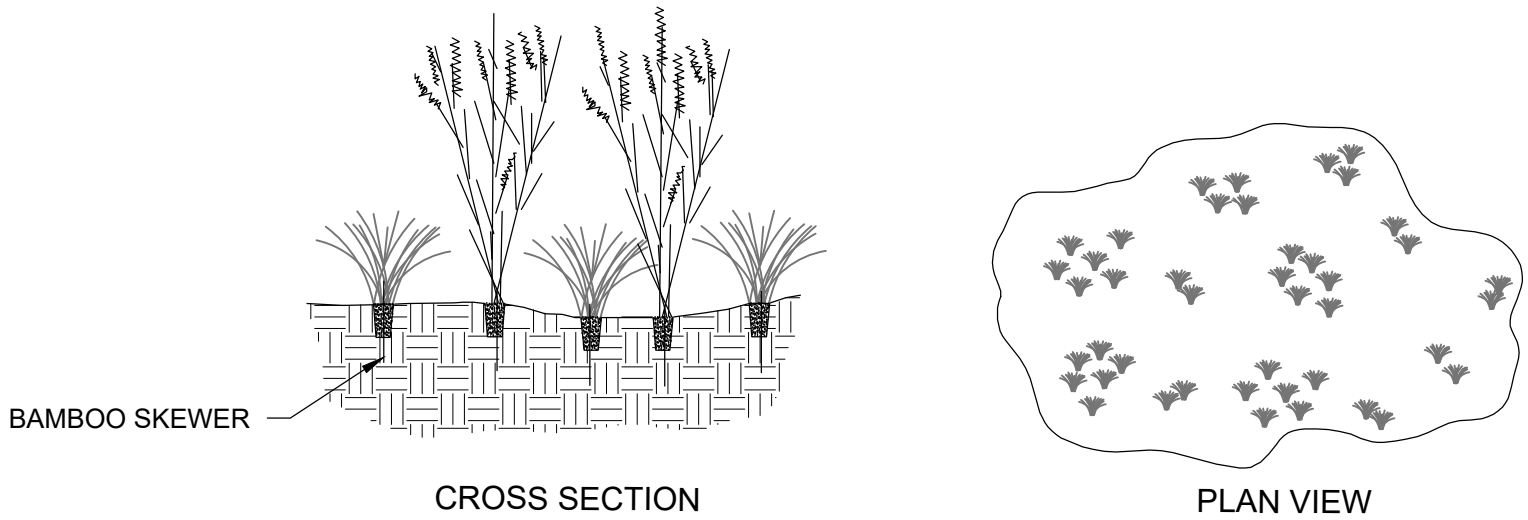
PLANTING SUGGESTIONS - SPECIES LIST



INSTALLATION STEPS

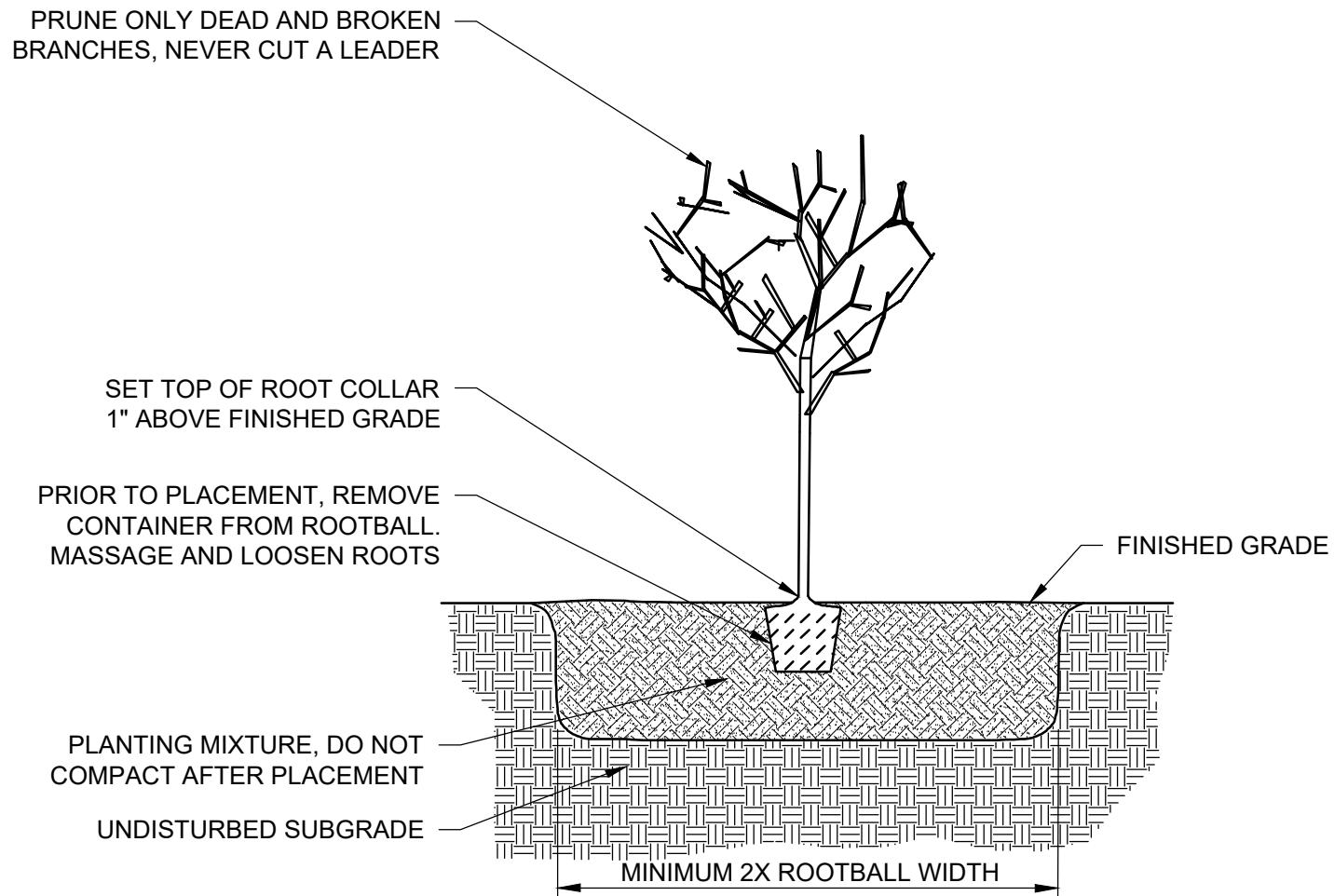
1. DRIVE GRAB HOE INTO THE GROUND, LIFT HANDLE, AND PULL HOE BACK.
2. PLACE SEEDLING AGAINST STRAIGHT SIDE AT CORRECT DEPTH.
3. FILL BORROW OF HOLE AND PACK SOIL AGAINST ROOTS.
4. FINISH FILLING IN SOIL AND PACK IT WITH HEEL.
5. FIRM AROUND SEEDLING WITH THE FOOT.
6. INSTALL TREE TUBE WITH STAKE TO SECURE IN PLACE.

BARE ROOT SEEDLING INSTALLATION W/ TREE TUBE



1. PREPARE HOLE FOR PLANTING BY REMOVING FINISH GRADE TOPSOIL WITH A GARDEN TROWEL OR SIMILAR TOOL. REMOVE JUST ENOUGH TOPSOIL TO FIT THE SOIL AND ROOTS OF THE PLUG INTO THE GOUND.
2. REMOVE PLUG FROM CONTAINER AND INSPECT THE ROOTS. IF THE ROOTS ARE TIGHTLY WRAPPED AROUND THE SOIL, LOOSEN THEM AND SPREAD THEM OUT GENTLY. IF INSTEAD THE SOIL IS VERY LOOSE AROUND THE ROOTS, KEEP AS MUCH SOIL AS POSSIBLE AROUND THE ROOTS.
3. PLACE THE PLUG INTO THE HOLE SO THAT THE TOP OF THE SOIL PLUG IS FLUSH WITH FINISH GRADE. SECURE EACH PLUG IN PLACE WITH ONE 8 - 10" BAMBOO SKEWER. TAMP SOIL AROUND THE PLUG, AND WATER GENEROUSLY. USE ENOUGH WATER TO DISPLACE ANY TRAPPED AIR WITHIN THE HOLE.
4. HERBACEOUS PLUGS SHALL BE INSTALLED ACCORDING TO DENSITIES LISTED IN THE CONTRACT SPECIFICATIONS. PLANT PLUGS IN GROUPS OF TWO TO SIX INDIVIDUALS, RATHER THAN IN EQUAL INTERVALS.

HERBACEOUS PLUG PLANTING



1 GAL. SHRUB PLANTING

NOT FOR CONSTRUCTION

NO.	REVISION/ISSUE	DATE

50% DESIGN

ES Engineering

NC Affiliate Office: 145 7th Ave West: Suite B
Hendersonville, NC 28792
828-784-8324 | NC License C-5299

RICHLAND CREEK AND VANCE GREENWAY RESTORATION

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

PLANTING PLAN SPECIES LIST

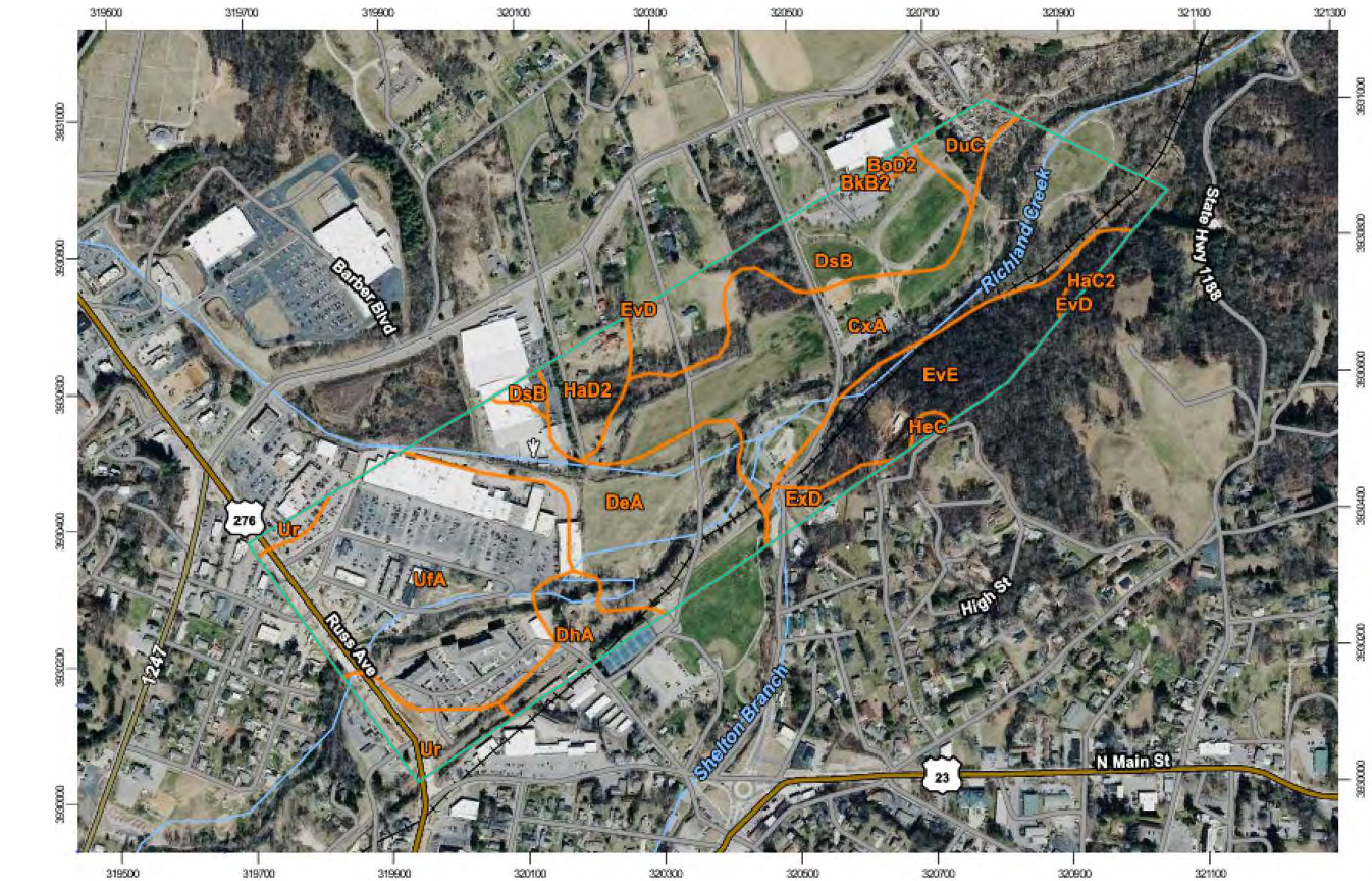
DESIGNED BY:	ADH
DRAWN BY:	TG
CHECKED BY:	ET
DATE:	SEPTEMBER 2026
VERT. SCALE:	NA
HORZ. SCALE:	NA

SHEET:	PL-04
25	32

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GRADING AND STABILIZATION ACTIVITIES LOG					
DESCRIPTION AND LOCATION ON GRADING ACTIVITY	DATE GRADING ACTIVITY INITIATED	DATE GRADING ACTIVITY CEASED	DATE WHEN STABILIZATION MEASURES INITIATED	TYPE OF STABILIZATION MEASURE	DESCRIPTION OF STABILIZATION MEASURE
				PERMANENT/TEMPORARY	
				PERMANENT/TEMPORARY	
				PERMANENT/TEMPORARY	
				PERMANENT/TEMPORARY	
				PERMANENT/TEMPORARY	
				PERMANENT/TEMPORARY	
				PERMANENT/TEMPORARY	
				PERMANENT/TEMPORARY	

SWPPP AMENDMENT LOG			
AMENDMENT NO.	DESCRIPTION OF THE AMENDMENT	DATE OF THE AMENDMENT	AMENDMENT PREPARED BY [NAME(S) AND TITLE]
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BkB2	Braddock clay loam, 2 to 8 percent slopes, eroded	0.0	0.0%
BoD2	Braddock clay loam, 15 to 30 percent slopes, eroded, stony	0.3	0.2%
CxA	Cullowhee-Nikwasi complex, 0 to 2 percent slopes, frequently flooded	32.1	25.3%
DeA	Delwood cobbly sandy loam, 0 to 3 percent slopes, occasionally flooded	19.0	15.0%
DhA	Delwood-Urban land complex, 0 to 3 percent slopes, occasionally flooded	4.6	3.6%
DsB	Dillsboro loam, 2 to 8 percent slopes	15.3	12.0%
DuC	Dillsboro-Urban land complex, 2 to 15 percent slopes	2.5	2.0%
EvD	Evard-Cowee complex, 15 to 30 percent slopes	0.3	0.2%
EvE	Evard-Cowee complex, 30 to 50 percent slopes	12.7	9.9%
ExD	Evard-Cowee-Urban land complex, 15 to 30 percent slopes	1.7	1.3%
HaC2	Hayesville clay loam, 8 to 15 percent slopes, eroded	0.0	0.0%
HaD2	Hayesville clay loam, 15 to 30 percent slopes, eroded	4.3	3.4%
HeC	Hayesville-Urban land complex, 2 to 15 percent slopes	0.4	0.3%
UfA	Udorthents-Urban land complex, 0 to 3 percent slopes, rarely flooded	29.4	23.1%
Ur	Urban land	4.6	3.6%
Totals for Area of Interest		127.2	100.0%

CONTACT INFORMATION

OWNER(S)

COMPANY NAME: HAYWOOD WATERWAYS ASSOCIATION INC.
ADDRESS: PO BOX 389, WAYNESVILLE, NC 28786
POINT OF CONTACT:
EMAIL:
PHONE:

PROJECT ENGINEER/CONSTRUCTION REPRESENTATIVE

COMPANY NAME: ES ENGINEERING
ADDRESS: 5070 STOW RD. STOW, OH 44224
POINT OF CONTACT: ANGELINA HOTZ, P.E.
EMAIL: AHOTZ@ENVIROSCIENCEINC.COM
PHONE: 330-502-3361

GENERAL CONTRACTOR

COMPANY NAME: ENVIROSCIENCE INC.
ADDRESS: 5070 STOW RD. STOW, OH 44224
POINT OF CONTACT: TOM PREWITT
EMAIL: TPREWITT@ENVIROSCIENCEINC.COM
PHONE: 330-217-2550

CONSTRUCTION START DATE: TBD
CONSTRUCTION DURATION: TBD

GENERAL NOTES

NOT FOR CONSTRUCTION

NO.	REVISION/ISSUE	DATE

50% DESIGN

ES Engineering

NC Affiliate Office: 145 7th Ave West: Suite B
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RICHLAND CREEK AND VANCE GREENWAY RESTORATION

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

SWPPP COVER SHEET

DESIGNED BY: ADH
DRAWN BY: TG
CHECKED BY: ET

DATE: SEPTEMBER 2026

VERT. SCALE: NA
HORZ. SCALE: NA

SHEET:
SW-01
26 / 32

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SWPPP NOTES

TYPE OF CONSTRUCTION ACTIVITY

1. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE CONDUCTED PER THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND IN ACCORDANCE WITH NCDEQ REQUIREMENTS. THE SWPPP SHALL BE AVAILABLE AT THE PROJECT SITE FOR REFERENCE TO BMP ACTIVITY. THE VARIABILITY OF EROSION AND SEDIMENT CONTROL BMP'S MAY BE MODIFIED AS APPROPRIATE TO COMPLETE THE NECESSARY RESTORATION ACTIVITIES.
2. TOTAL AREA OF DISTURBANCE: XX AC. THE RESTORATION PROJECT INCLUDING IMPORT OF ROCK, AND EARTHMOVING ACTIVITIES FOR STREAM STABILIZATION, REALIGNMENT, RIFFLE AND POOL IMPROVEMENTS, BANK STABILIZATION AND FLOODPLAIN FEATURES.
3. RICHLAND CREEK IS THE RECEIVING STREAM FOR ALL PROJECT RUNOFF.
4. RUNOFF COEFFICIENTS/IMPERVIOUS AREA: THERE WILL BE NO INCREASE IN IMPERVIOUS AREA UPON COMPLETION OF PROJECT.
5. REFER TO SHEET SW-04 FOR GROUND STABILIZATION TIMELINES, WASTE HANDLING, AND HAZARDOUS MATERIAL HANDLING REQUIREMENTS.
6. VEGETATIVE BUFFER: WHERE POSSIBLE, BUFFER STRIPS WILL BE LEFT BETWEEN TILLING AREAS AND EXISTING DRAINAGE WAYS TO USE NON-STRUCTURAL CONTROLS AND PRESERVE EXISTING VEGETATION BUFFER.
7. CONTRACTOR IS TO ADHERE TO ALL REQUIREMENTS INCLUDED ON SHEET SW-03 FOR INSPECTION, RECORDKEEPING, AND REPORTING OF SWPPP MEASURES.
8. CONSTRUCTION ENTRANCES, AND SWPPP ITEMS SHALL REMAIN IN PLACE UNTIL EARTHWORK AND DEMOLITION OPERATIONS ARE COMPLETE AND THE SITE IS STABLE. THE SITE IS CONSIDERED STABLE WHEN 75% VEGETATIVE COVER HAS BEEN ESTABLISHED WITHIN 60 DAYS OF INITIAL SEEDING AND 90% COVERAGE AFTER ON YEAR ON ALL DISTURBED AREAS. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM.
9. IF AT ANY TIME UTILITY COMPANIES ARE REQUIRED TO PARTICIPATE IN CONSTRUCTION, UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.
- 10.IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
- 11.NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. PROPERLY DISPOSE OF ANY LIQUID IN A CONCRETE WASHOUT THAT HAS NOT EVAPORATED.
- 12.THERE WILL BE NO OPEN BURNING.
13. TRACKING OF SEDIMENTS BY VEHICLES WILL BE MINIMIZED BY UTILIZING THE CONSTRUCTION ENTRANCE AS THE ONLY ENTRANCE FOR VEHICLES. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING. SEDIMENT/SOIL TRACKED OFF-SITE SHALL BE REMOVED BY CONTRACTOR AND PROPERLY DISPOSED OF.
14. THE SWPPP SHALL BE KEPT ONSITE AT ALL TIMES DURING CONSTRUCTION. IT IS THE CONTRACTORS RESPONSIBILITY TO MARK (IN A DOMINANT COLOR) DAILY ANY MINOR MODIFICATIONS MADE TO THE APPROVED SWPPP SO AS TO KEEP RECORD OF THE MODIFICATIONS MADE IN THE FIELD.
15. ALL SOIL DISTURBING ACTIVITIES AT THE SITE ARE TO RECEIVE A COMPLETE AND A UNIFORM PERENNIAL VEGETATIVE COVER (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) WITH A DENSITY OF AT LEAST 75% VEGETATIVE COVER TO BE ESTABLISHED WITHIN 60 DAYS OF INITIAL SEEDING AND 90% COVERAGE AFTER ON YEAR. FOLLOWING SITE STABILIZATION, ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED. ALL TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
16. ALL FUEL TANKS SHALL BE STAGED WITHIN THE DESIGNATED EQUIPMENT STAGING AREAS AS SHOWN ON THE PLANS. FUELING ACTIVITIES SHALL BE VISUALLY MONITORED AT ALL TIMES TO MANAGE ACCIDENTAL SPILLAGE. IDLE EQUIPMENT, PETROCHEMICALS AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED IN THE FLOODPLAIN OR NEAR DRAINAGE WAYS OR STREAMS THAT COULD CONVEY SUCH MATERIALS TO THE STREAM. PETROCHEMICALS AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE DISCHARGED INTO THE STREAM, ITS FLOODPLAIN OR ANY DRAINAGE WAYS/DITCHES. REFUELING OF EQUIPMENT SHALL NOT OCCUR IN THE FLOODPLAIN OR NEAR ANY DRAINAGE WAYS, DITCHES OR WITHIN 50 FEET OF STREAMS. FUEL TANKS SHALL BE CONTAINED OR DIKED. VISUAL MONITORING WOULD NOT BE SUFFICIENT IN THE EVENT OF A SPILL. SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. THAT IS SPILLED, LEAKED, OR RELEASED ONTO THE SOIL SHALL BE IMMEDIATELY CONTAINED USING SOIL BERMS AND/OR ABSORBENT PADS/STOCKS.
- A) SPILL REQUIREMENTS IN THE EVENT OF SMALL RELEASE (<25 GALLONS): IMPACTED SOIL SHALL BE DUG UP AND FREE LIQUIDS SHALL BE COLLECTED FOR DISPOSAL AT A LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL).
- B) REFER TO SHEET SW-03 FOR SPILL REPORTING REQUIREMENTS.

PERMITS

WORK WITHIN PROJECT SITE/LIMITS IS SUBJECT TO U.S. ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION (I.E., JURISDICTIONAL WATERS OF THE U.S.). ANY IMPACTS AND PLACEMENT OF FILL TO JURISDICTIONAL WATERS OUTSIDE OF THE PROJECT LIMITS IS PROHIBITED. THE FOLLOWING PERMITS APPLY TO THIS PROJECT:

1. NATIONWIDE PERMIT (NWP) 27 AND 13 FROM THE U.S. ARMY CORPS OF ENGINEERS (USACE).
2. THIS PROJECT WILL BE SUBJECT TO AN IN-WATER WORK WAIVER FOR SEASONAL SALMONID FROM SEPTEMBER 15TH TO JUNE 30TH.
3. NORTH CAROLINA EPA - NOTICE OF INTENT (NOI) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER AND NPDES GENERAL PERMIT (NCG01).

FLOODPLAIN DEVELOPMENT PERMIT

DUST CONTROL

1. VEGETATIVE COVER AND MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREA THAT WILL REMAIN IDLE FOR OVER 14 DAYS. TO THE EXTENT POSSIBLE, EXISTING TREES AND LARGE SHRUBS SHALL REMAIN IN PLACE TO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING, PERMANENT SEEDING, AND MULCHING PRACTICES.
2. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED TO PREVENT GENERATION OF VISIBLE AIRBORNE DUST. ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTE. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS. CHEMICAL AND ORGANIC AGENTS SHOULD NOT BE APPLIED UNDER FROZEN CONDITIONS, RAINY CONDITIONS, OR WHEN THE TEMPERATURE IS BELOW 40-DEGREES (F). THESE AGENTS WILL NOT BE USED IN THE FLOODPLAIN.
3. STONE - GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICAL AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
4. BARRIERS - EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL. THIS MATERIAL WILL NOT BE USED IN THE FLOODPLAIN.
5. CALCIUM CHLORIDE - THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS SPECIFIED RATES. THIS MATERIAL WILL NOT BE USED IN THE FLOODPLAIN.
6. OPERATION AND MAINTENANCE - SITE SHALL BE CONTINUOUSLY MONITORED TO VERIFY EFFECTIVENESS OF DUST CONTROL MEASURES. WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

SUGGESTED GENERAL SEQUENCE OF CONSTRUCTION

CONSTRUCTION SHALL NOT BEGIN UNTIL ALL SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL MINIMIZE DISTURBANCE WITHIN THE WORKING AREA WHEREVER POSSIBLE.

STREAM CONSTRUCTION WILL FOLLOW THE GENERAL SEQUENCE OF:

- UTILITY COORDINATION (NC 811 NOTIFICATION)
- MOBILIZE TO RICHLAND CREEK, ENSURE ALL EQUIPMENT BROUGHT TO THE SITE IS CLEAN. DIRTY EQUIPMENT SHALL NOT BE PERMITTED;
- INSTALL EROSION AND SEDIMENT CONTROLS;
- CONSTRUCT TEMPORARY ACCESS ROADS AND STAGING AREAS;
- TREE AND VEGETATION CLEARING AND GRUBBING; VEGETATION WILL BE CLEARED DURING APPROPRIATE TIMEFRAME FROM OCTOBER 1ST TO MARCH 31ST;
- SITE LAYOUT AND ESTABLISH WORKING LIMITS;
- INITIATE WATER CONTROL/DIVERSION PROCEDURES;
 - EXCAVATE DIVERSION TRENCH TO DIVERT BASE FLOW UPSTREAM;
- ESTABLISH STREAM CROSSING(S);
- STRIP AND STOCKPILE TOPSOIL AS NECESSARY IN GRADING AREAS;
- BEGIN UPSTREAM AND WORK IN A DOWNSTREAM DIRECTION;
- BEGIN EXCAVATION TO ESTABLISH SUBGRADE;
- IMPORT AND INSTALL BANK STABILIZATION FEATURES'
- CONSTRUCT IN-STREAM HABITAT FEATURES;
- CONSTRUCT GRADE CONTROL AND ROCK VANES WITH ROCK KEY;
- PERFORM FINISH GRADING;
- INSTALL STOCKPILED OR IMPORTED TOPSOIL TO FINISH GRADE;
- SEED, STABILIZE, AND INSTALL EROSION CONTROL FABRIC;
- INSTALL NATIVE TREES, SHRUBS, AND LIVE STAKES. REMOBILIZATION MAY BE NECESSARY DEPENDING ON TIMING OF PLANTINGS;
- DEMOBILIZE.

CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME: TITLE:

SIGNATURE: DATE:

SUBCONTRACTOR(S)

ALL SUBCONTRACTORS INVOLVED IN EARTH DISTURBING ACTIVITY ARE REQUIRED TO SIGN A SUBCONTRACTOR CERTIFICATION AND SUBMIT AN OHIO EPA CO-PERMITTEE FORM. A COPY OF SIGNED CO-PERMITTEE FORMS SHALL BE KEPT WITH THE SWPPP.

GENERAL NOTES

NOT FOR
CONSTRUCTION

NO.	REVISION/ISSUE	DATE

50% DESIGN

ES Engineering

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RICHLAND CREEK AND VANCE
GREENWAY RESTORATION

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

SWPPP
GENERAL NOTES

DESIGNED BY: ADH DRAWN BY: TG CHECKED BY: ET	SHEET: SW-02
DATE: SEPTEMBER 2026	
VERT. SCALE: NA HORZ. SCALE: NA	27 / 32

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

1. E&SC Plan Documentation
The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

2. Additional Documentation to be Kept on Site
In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
 - (a) This General Permit as well as the Certificate of Coverage, after it is received.
 - (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
3. Documentation to be Retained for Three Years*
*All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- 

Effective:
April 1, 2024

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

NO.	REVISION/ISSUE	DATE

ES Engineering

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PO BOX 100
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DESIGNED BY:	ADH
DRAWN BY:	TG
CHECKED BY:	ET
DATE: SEPTEMBER 2026	
VERT. SCALE:	NA
HORZ. SCALE:	NA

SHEET:
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GENERAL NOTES

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RICHLAND CREEK AND VANCE
GREENWAY RESTORATION

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NCG01 NOTES

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HORZ. SCALE: NA

SHEET:

SW-04

29 / 32

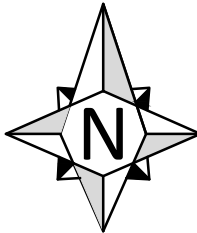
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NOTES:

1. ALL EX. WETLANDS ARE TO BE FLAGGED AND PROTECTED WITH ORANGE CONSTRUCTION FENCING PRIOR TO STARTING CONSTRUCTION. THE CONSTRUCTION WORK AREA LIMITS SHALL BE INDICATED WITH CONSTRUCTION FENCE.
2. TIMBERMATS ARE TO BE USED AS NECESSARY, TO AVOID DAMAGING (RUTTING) TRAILS DUE TO WET OR SOFT SOILS. THE LOCATION OF A TIMBERMAT CROSSING WILL BE DETERMINED IN THE FIELD, IF NECESSARY FOR CONSTRUCTION.
3. ALL DISTURBED / GRADED AREAS NOT RECEIVING EROSION FABRIC STILL REQUIRE SEED AND STRAW TO PREVENT EROSION. SEE PLANTING PLAN FOR SEED MIXES AND LOCATIONS.
4. REFER TO THE STANDARD DETAIL SHEETS FOR EROSION FABRIC INSTALLATION DETAILS.
5. EROSION FABRIC MAY BE REQUIRED BEYOND THE HATCH SHOWN ON THIS SHEET FOR ADDITIONAL DISTURBED AREAS, NOT INDICATED ON THE PLAN AS PROP. GRADING/CONTOURS.

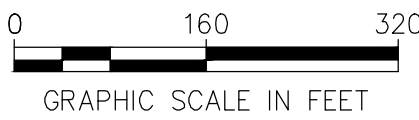
GENERAL NOTES



NOT FOR
CONSTRUCTION

LEGEND

- P/L ——— PROPERTY LINE
- EX. THALWEG
- SAN ——— SAN ——— EX. SANITARY SEWER
- STM ——— EX. STORM SEWER
- · — · — FEMA FLOOD HAZZARD AREA (100-YR)
- EX. ACTIVE RAIL LINE
- EX. TRAIL
- EX. TRAIL TO BE REMOVED
- PROPOSED TRAIL
- PROP. SILT FENCE
- PROP. STAGING AREA
- PROP. LIMITS OF DISTURBANCE
- SF
- CE
- SILT FENCE
- CONSTRUCTION ENTRANCE



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WAYNESVILLE, NC 28786

SWPPP

DESIGNED BY:	ADH
DRAWN BY:	TG
CHECKED BY:	ET
DATE:	SEPTEMBER 2026
VERT. SCALE:	NA
HORZ. SCALE:	1" = 160'

SHEET:
SW-05
30 / 32

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SPECIFICATIONS FOR SILT FENCE

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TOTHE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM OF 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND. (SEE DETAILS)
- MAINTENANCE--SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVER-TOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS
FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS, AND OTHER DEFECTS THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.

SILT FENCE FABRIC CHART

TABLE 6.3.2 MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. [535 N]	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS [220 N]	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS [180 N]	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 mm	ASTM D 4751
MINIMUM PERMITIVITY	1X10-2 SEC. -1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355

SILT FENCE AND DIVERSIONS:

SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SILT FENCE OR DIVERSIONS TO PROTECT ADJACENT PROPERTIES, WATER RESOURCES, AND WETLANDS FROM SEDIMENT TRANSPORTED VIA SHEET FLOW. WHERE INTENDED TO PROVIDE SEDIMENT CONTROL, SILT FENCE SHALL BE PLACED ON A LEVEL CONTINUOUS AND SHALL BE CAPABLE OF TEMPORARILY PONDING RUNOFF. THE RELATIONSHIP BETWEEN THE MAXIMUM DRAINAGE AREA TO SILT FENCE FOR A PARTICULAR SLOPE RANGE IS SHOWN IN TABLE 3 BELOW. STORM WATER DIVERSION PRACTICES SHALL BE USED TO KEEP RUNOFF AWAY FROM DISTURBED AREAS AND SLEEP SLOPES. SUCH DEVICES, WHICH INCLUDE SWALES, DIKES OR BERMS, MAY RECEIVE STORM WATER RUNOFF FROM AREAS UP TO 10 ACRES. PLACING SILT FENCE IN PARALLEL DOES NOT EXTEND THE PERMISSIBLE DRAINAGE AREA WHICH IS SERVED BY THE SILT FENCE.

MAXIMUM DRAINAGE AREA TO SILT FENCE

TABLE 3

MAXIMUM DRAINAGE AREA (ACRES) TO 100 LINEAR FEET OF SILT FENCE	RANGE OF SLOPE FOR A DRAINAGE AREA (%)
0.5	<2%
0.25	>2% BUT <20%
0.125	>20% BUT <50%

SALVAGING AND STOCKPILING

- DETERMINE THE DEPTH AND SUITABILITY OF TOPSOIL AT THE SITE. REFER TO THE COUNTY SOIL SURVEY REPORT OF CONTACT LOCAL SWCD.
 - PRIOR TO STRIPPING TOPSOIL, INSTALL APPROPRIATE DOWNSLOPE EROSION AND SEDIMENTATION CONTROLS SUCH AS SEDIMENT TRAPS AND BASINS.
 - REMOVE THE SOIL MATERIAL NO DEEPER THAN WHAT THE COUNTY SOIL SURVEY DESCRIBES AS 'SURFACE SOIL' (ie. A OR AP HORIZON)
 - CONSTRUCT STOCKPILES IN ACCESSIBLE LOCATIONS THAT DO NOT INTERFERE WITH NATURAL DRAINAGE. INSTALL APPROPRIATE SEDIMENT CONTROLS TO TRAP SEDIMENT SUCH AS SILT FENCE IMMEDIATELY ADJACENT TO THE STOCKPILE OR SEDIMENT TRAPS OR BASINS DOWNSTREAM OF THE STOCKPILE. STOCKPILE SIDE SLOPES SHALL NOT EXCEED A RATION OF 2:1.
- IF TOPSOIL IS STORED FOR MORE THAN 14 DAYS, IT SHOULD BE TEMPORARY SEEDED, OR COVERED WITH A TARP.
- SPREADING THE TOPSOIL
- PRIOR TO APPLYING TOPSOIL, THE TOPSOIL SHOULD BE PULVERIZED.
 - TO ENSURE BONDING, GRADE THE SUBSOIL AND ROUGHEN THE TOP 3-4 INCHES BY DISKING.
 - DO NOT APPLY WHEN SITE IS WET, MUDDY, OR FROZEN, BECAUSE IT MAKES SPREADING DIFFICULT, CAUSES COMPACTION PROBLEMS, AND INHIBITS BONDING WITH SUBSOIL.
 - APPLY TOPSOIL EVENLY TO A DEPTH OF AT LEAST 4 INCHES AND COMPACT SLIGHTLY TO IMPROVE CONTACT AND SUBSOIL.
 - AFTER SPREADING, GRADE AND STABILIZE WITH SEEDING OR APPROPRIATE VEGETATION.

TEMPORARY SEEDING

- STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION-SITE.
- TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS AFTER GRADING. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
- THE SEEDBED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
- SOIL AMENDMENTS--APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED.
- SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING:

- APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION. FOLLOWING SEED APPLICATION TOPSOILS AND ALL SLOPES GREATER THAN 2:1 SHALL BE PROTECTED WITH SUITABLE FOR THE PROJECT, SEE GENERAL NOTES, SHEET 3.

- MATERIALS:
STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT 2 TONS/AC. OR 90 LB. / 1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.

HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. / AC. OR 46 LB. /1,000 SQ. FT.

OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS / AC.

- STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:

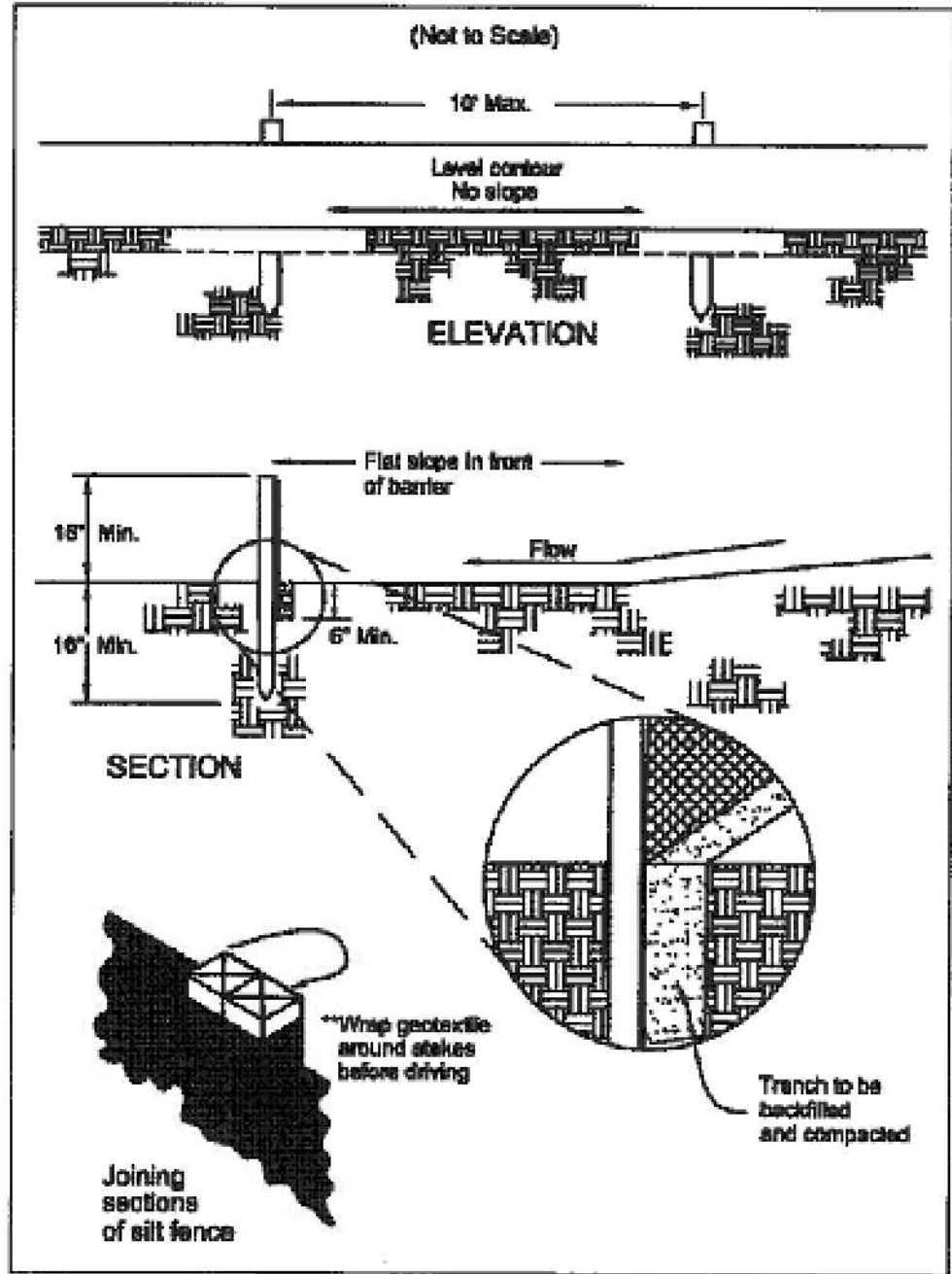
MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICAL ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN.

MULCH NETTINGS--NETTINGS SHALL BE USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES. NETTING SHALL BE BIODEGRADABLE JUTE, NO PLASTIC. SEE SPECIFICATION FOR EROSION FABRIC ON SHEET 3, AND DETAILS FOR INSTALLATION LOCATION ON STANDARD DETAIL SHEETS.

SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA-TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.

WOOD-CELLULOSE FIBER--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. /AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL.

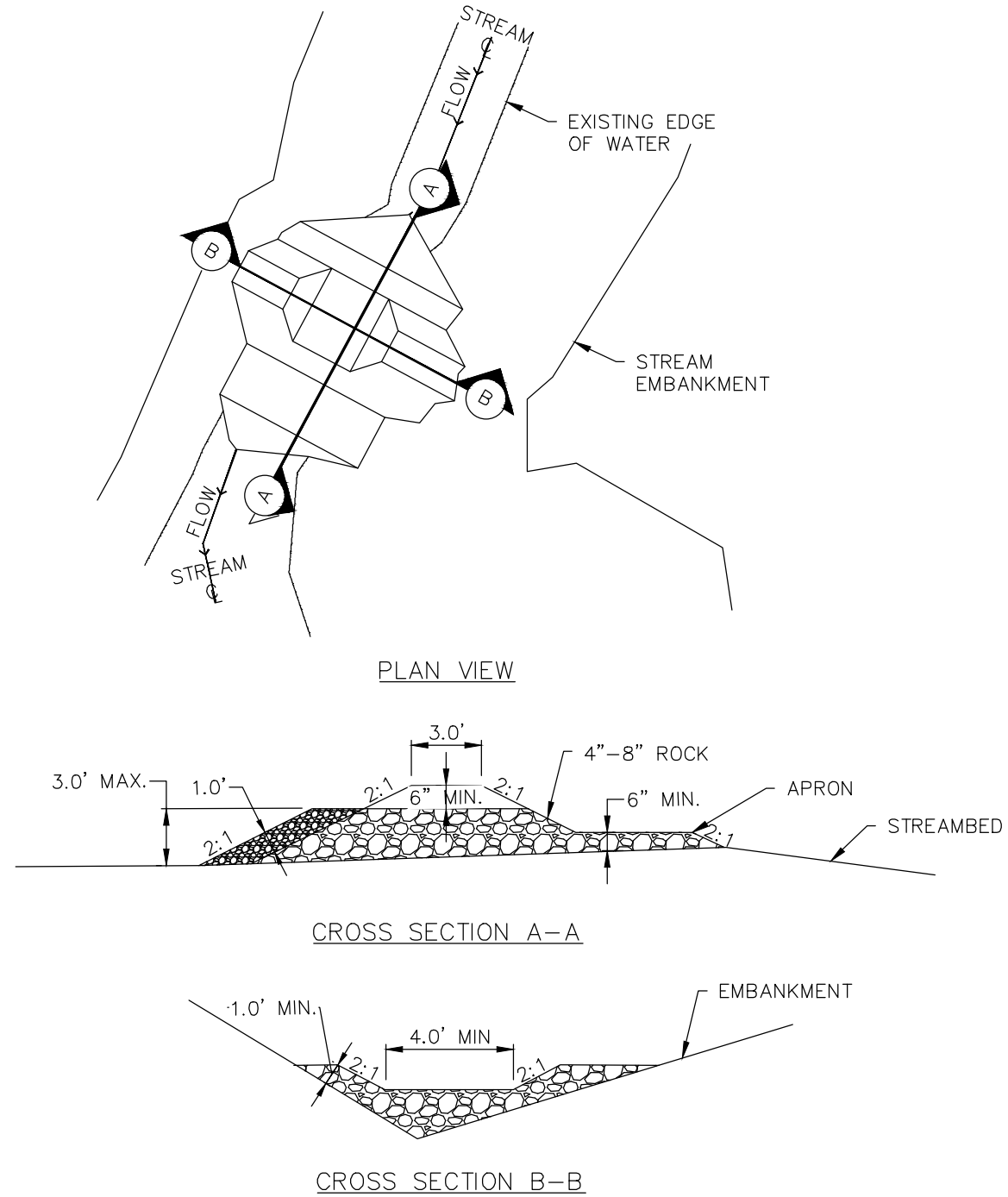
TS TEMPORARY SEEDING
NOT TO SCALE



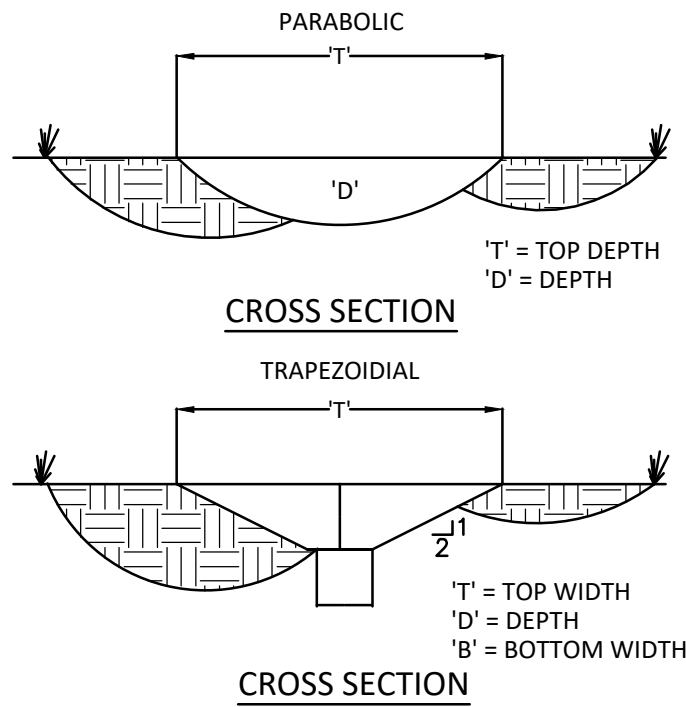
SF SILT FENCE
NOT TO SCALE

NOTES:

- THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8 INCH DIAMETER OR ODOT TYPE D STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL. ODOT TYPE D STONE IS ACCEPTABLE, BUT SHOULD BE UNDERLAIN WITH A GRAVEL FILTER CONSISTING OF ODOT NO. 3 OR 4 SUITABLE FILTER FABRIC.
- THE UPSTREAM SIDE OF THE CHECK DAM SHALL HAVE A LAYER OF ODOT #57 AGGREGATE.
- SEDIMENT SHALL BE REMOVED FROM BEHIND THE DAM WHEN IT REACHES ½ THE HEIGHT OF THE CHECK DAM.
- MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.
- THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT FLOW ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.
- THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES WHEN FEASIBLE.
- A SPLASH APRON SHALL BE CONSTRUCTED WHERE CHECK DAMS ARE EXPECTED TO BE IN USE FOR AN EXTENDED PERIOD OF TIME. A STONE APRON SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 IN. THICK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM.
- STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS ENTIRE CHANNEL.
- SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

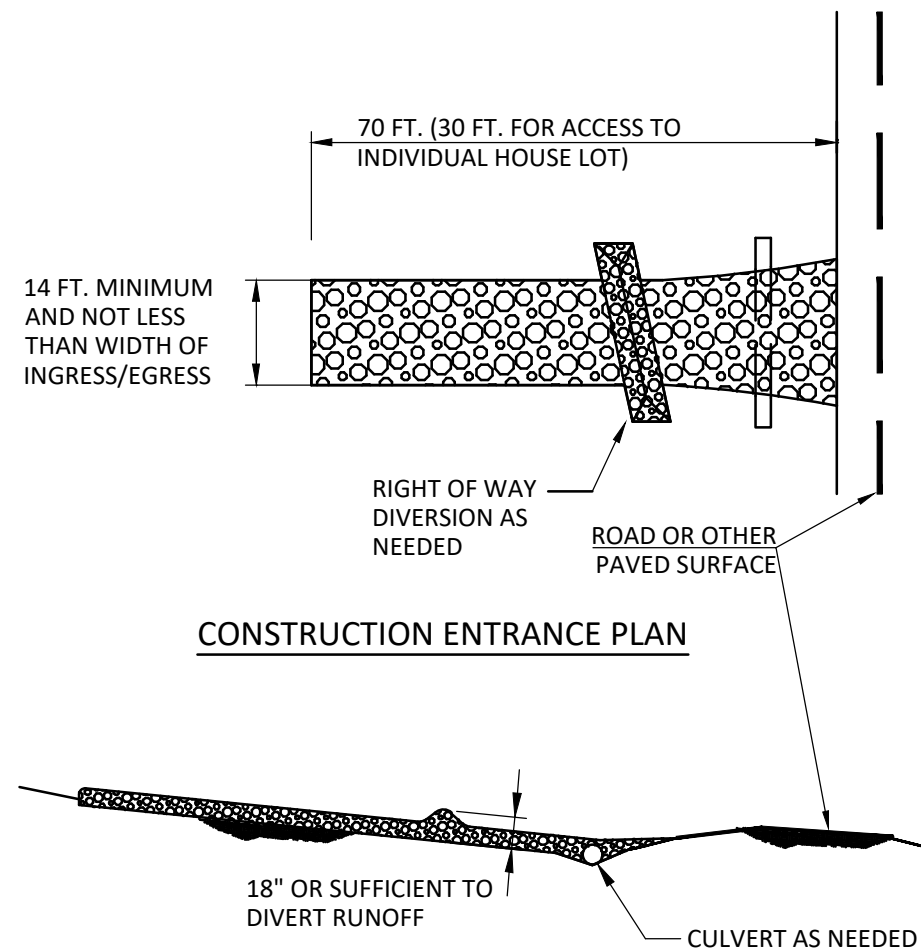


CD TEMPORARY ROCK SILT DAM
NOT TO SCALE



- ALL TREES, BRUSH, STUMPS, AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE
- THE CHANNEL SHALL BE EXCAVATED AND SHAPED TO THE PROPER GRADE AND CROSS SECTION
- FILL MATERIAL USED IN THE CONSTRUCTION OF THE CHANNEL SHALL BE WELL COMPACTED IN UNIFORM LAYERS NOT EXCEEDING 9 INCHES USING THE WHEEL TREADS OR TRACKS OF THE CONSTRUCTION EQUIPMENT TO PREVENT UNEQUAL SETTLEMENT.
- EXCESS EARTH SHALL BE GRADED OR DISPOSED OF SO THAT IT WILL NOT RESTRICT FLOW TO THE CHANNEL OR INTERFERE WITH ITS FUNCTIONING.
- STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE SPECIFICATIONS FOR PERMANENT SEEDING, VEGETATIVE PRACTICES, SODDING AND MATTING.
- CONSTRUCTION SHALL BE SEQUENCED SO THAT NEWLY CONSTRUCTED CHANNELS ARE STABILIZED PRIOR TO BECOMING OPERATIONAL TO AID IN THE ESTABLISHMENT OF VEGETATION, SURFACE WATER MAY BE PREVENTED FROM ENTERING THE NEWLY CONSTRUCT CHANNEL THROUGH THE ESTABLISHMENT PERIOD.
- GULLIES THAT MAY FORM IN THE CHANNEL OR OTHER EROSION DAMAGE THAT OCCURS BEFORE THE GRASS LINING BECOMES ESTABLISHED SHALL BE REPAIRED WITHOUT DELAY.

GS GRASS SWALE DETAIL
NOT TO SCALE



CONSTRUCTION ENTRANCE PROFILE
NOT TO SCALE

- STONE SIZE--ODOT #2 (1.5 - 2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE PAVEMENT.
- LENGTH--THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOT).
- THICKNESS--THE STONE LAYER SHALL BE AT LEAST 6-IN. THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10-IN. FOR HEAVY DUTY USE.
- WIDTH--THE ENTRANCE SHALL BE AT LEAST 14-FT. WIDE, BUT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE--A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPEC. FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS ≤ 0.60 mm
PERMITTIVITY	1x10-3 CM/SEC

- TIMING--THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT--A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR--A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE--TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECK BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL--THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

CE CONSTRUCTION ENTRANCE
NOT TO SCALE

GENERAL NOTES

NOT FOR
CONSTRUCTION

50% DESIGN

ES Engineering

NC Affiliate Office: 145 7th Ave West: Suite B
Hendersonville, NC 28792
828-784-8324 | NC License C-5299

RICHLAND CREEK AND VANCE
GREENWAY RESTORATION

TOWN OF WAYNESVILLE
9 S. MAIN ST.
PO BOX 100
WAYNESVILLE, NC 28786

SWPPP DETAILS

DESIGNED BY: ADH
DRAWN BY: TG
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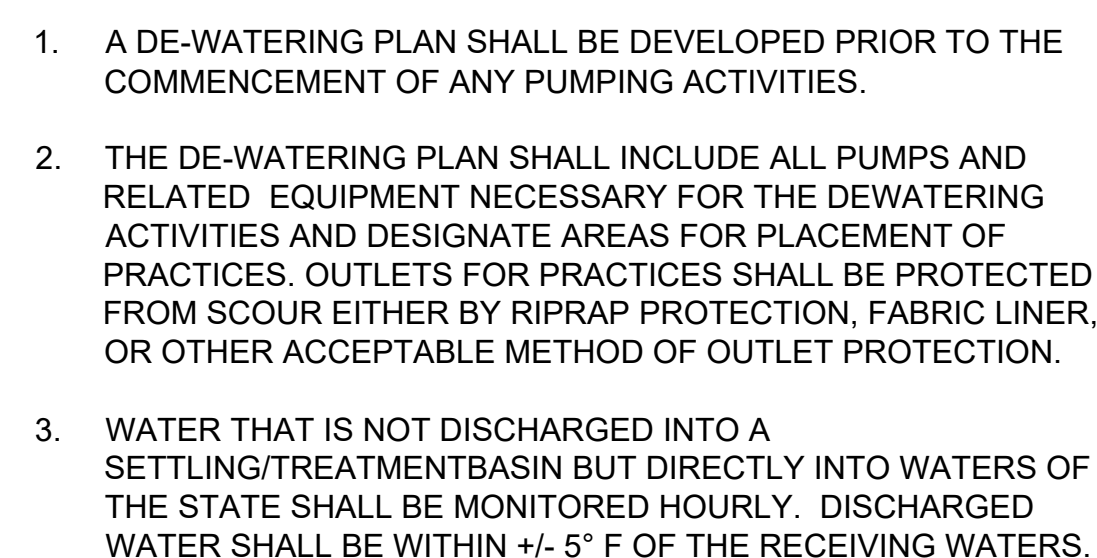
- IN BASINS SHALL NOT BE GREATER THAN FOUR (4) FEET IN DEPTH. THE BASIN SHALL BE CONSTRUCTED FOR SEDIMENT STORAGE AS OUTLINED IN CHAPTER 6, SEDIMENT BASIN OR TRAP. THE INLET AND OUTLET FOR THE BASIN SHALL BE LOCATED AT THE FURTHEST POINTS OF THE BASIN. A FLOATING OUTLET SHALL BE USED TO ENSURE SETTLED SOLIDS DO NOT RE-SUSPEND DURING THE DRAINAGE PROCESS. THE SETTLING BASIN SHALL BE MAINTAINED WHEN THE STORAGE HAS BEEN REDUCED BY 10% OF ITS ORIGINAL CAPACITY.
- NECESSARY NATIONAL, STATE AND LOCAL PERMITS SHALL BE OBTAINED PRIOR TO DISCHARGING INTO WATERS OF THE STATE.



- SD** COMPOST SOCK CHECK DAM
NOT TO SCALE



- AT** AIRBRIDGE TIMBERMAT
EQUIPMENT CROSSING
NOT TO SCALE



BP BY-PASS PUMPING/ STREAM FLOW DIVERSION DETAIL
NOT TO SCALE

SD COMPOST SOCK CHECK DAM
NOT TO SCALE

50% DESIGN

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TOWN OF WAYNESVILLE
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PO BOX 100
WAYNESVILLE, NC 28786

SWPPP DETAILS

SHEET:
SW-07
32 / 32

**TOWN OF WAYNESVILLE COUNCIL
REQUEST FOR COUNCIL ACTION
Meeting Date: September 22, 2026**

SUBJECT: Public Hearing to consider text amendments related to periodic fire inspection standards and requirements for the installation of key boxes for change in occupancy classification, Chapter 30- Fire Prevention and Protection of the Waynesville Code of Ordinances.

AGENDA INFORMATION:

Agenda Location: New Business
Item Number:
Departments: Development Services, Fire Department
Contact: Olga Grooman, Claudio Fuentes, David Kelley
Presenter: Olga Grooman

BRIEF SUMMARY:

The proposed text amendment is requested by the Town Fire Marshal and amends Chapter 30- Fire Prevention and Protection of the Waynesville Code of Ordinances. There are two proposed changes.

First, instead of prescribing specific fire inspection schedules for different types of structures based on occupancy classification, the amendment would reference the most recent inspection schedule established by the most recent Fire Code. This simplifies the ordinance and ensures that when the Fire Code gets updated, the Town will continue to follow the most current inspection schedule without having to update our local ordinances.

The second amendment would specify that the Fire Code Official can require an approved fire department key box in an approved location when there is a change in occupancy classification in commercial structures, if the fire box is not already installed. Fire department key boxes are already required where “access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary” for non-residential, commercial, and industrial buildings in accordance with the 2018 North Carolina Fire Code, Section 506. This amendment further aligns our ordinance with the Fire Code and specifically clarifies that this requirement applies to changes in occupancy classification. It would improve the efficiency of emergency response operations, promote public safety, and support lifesaving and firefighting activities.

MOTIONS FOR CONSIDERATION:

1. Motion to adopt the Ordinance as presented (or as amended).

FUNDING SOURCE/IMPACT:

N/A

ATTACHMENTS:

- Draft Ordinance
- Public Notice

MANAGER’S COMMENTS AND RECOMMENDATIONS:

ORDINANCE NO. O-42-26

**AN ORDINANCE AMENDING THE TEXT OF THE
TOWN OF WAYNESVILLE CODE OF ORDINANCES**

WHEREAS, the Town of Waynesville has the authority, pursuant to Chapter 69- Fire Protection of the North Carolina General Statutes, to provide fire protection within the municipality; and

WHEREAS, the Town of Waynesville has the authority, pursuant to Chapter 160D-1102 of the North Carolina General Statutes, to provide fire prevention and fire inspection services; and

WHEREAS, the Town Council adopted the North Carolina Fire Code and North Carolina State Building Code and enforcement of these provisions in Article III- Fire Code of the Town of Waynesville Code of Ordinances; and

WHEREAS, Section 506 of the North Carolina Fire Code authorizes the Fire Code Official to require the installation of a key box in an approved location to provide immediate access to the premises for lifesaving and fire-fighting purposes;

WHEREAS, approved key boxes installed in a specified location for changes in occupancy classification, in addition to new construction, will significantly enhance emergency response operations; and

WHEREAS, the Town Council adopted the 2035 Comprehensive Plan to “enable the growth of a vibrant, healthy, and successful community” and recognizes that prompt access by fire services to premises through fire department key boxes will improve emergency response capabilities and protect the public health, safety, and well-being of the community; and

WHEREAS, after notice duly given, a public hearing was held on **September 22, 2026**, at the regularly scheduled meeting of the Town Council;

NOW, THEREFORE, BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF WAYNESVILLE, MEETING IN REGULAR SESSION ON SEPTEMBER 22, 2026, AND WITH A MAJORITY OF THE BOARD MEMBERS VOTING IN THE AFFIRMATIVE, THE FOLLOWING:

That the Fire Prevention and Protection Ordinance of the Town of Waynesville, North Carolina, be amended as follows with revisions **in red** and deletions in strikethrough (~~example~~):

1. Amend section 30.3 – Inspections for Fire Hazards, Chapter 30- Fire Prevention and Protection of the Waynesville Code of Ordinances, as follows:

Chapter 30 - FIRE PREVENTION AND PROTECTION

ARTICLE I. - IN GENERAL

Sec. 30-3.- Inspections for Fire Hazards.

- ~~(a) It shall be the duty of the codes administrator, or such other person as may be designated by the town manager, to inspect or to cause to be inspected as often as may be necessary, but not less than once a year, all hazardous, institutional, high rise, and assembly structures, except as noted otherwise in this section; once a year, the interior common areas for all residential dwelling units of multi-family occupancies in which the occupancy is greater than two families; once every two years, all industrial and educational structures; once every three years, all assembly structures with maximum occupancy of less than 100, and all business, mercantile, storage, churches, synagogues, and miscellaneous Group U occupancies for the enforcement of applicable sections of this chapter, state law and town ordinances, and for the safeguarding of life and property from fire.~~
- (a) It shall be the duty of the codes administrator, or such other person as may be designated by the town manager, to inspect or cause to be inspected structures, as often as may be necessary, but not less frequently than specified in the Inspections section of the most recent Fire Code, for the enforcement of applicable sections of this chapter, state law and town ordinances, and for the safeguarding of life and property from fire.
- (b) ~~Reserved.~~ Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for lifesaving or fire-fighting purposes, the Fire Code Official is authorized to require a key box to be installed in an approved location. The key box shall be of an approved type listed in accordance with the UL 1037 and shall contain keys to gain necessary access as required by the Fire Code Official. A key box may also be required for changes in occupancy classification, in addition to new construction, as determined by the Fire Code Official.
- (c) Whenever any person shall make written complaint to the codes administrator that any business or premises constitutes a fire hazard, it shall be the duty of the codes administrator to have the business or premises inspected immediately.
- (d) The codes administrator, and his/her designee when so directed by the codes administrator, shall have the right to enter any building or premises at any reasonable hour, and upon reasonable notice with respect to residences, for the purpose of making any inspection provided for by this article.

ADOPTED this 22nd Day of September, 2026.

TOWN OF WAYNESVILLE

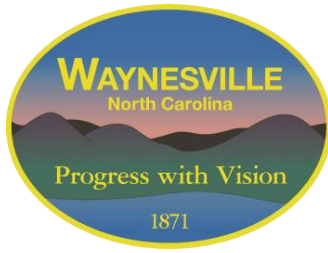
J. Gary Caldwell, Mayor

ATTEST:

Candace Poolton, Town Clerk

APPROVED AS TO FORM:

Martha Bradley, Town Attorney



TOWN OF WAYNESVILLE

Development Services Department

PO Box 100

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www.waynesvillenc.gov

FOR PUBLICATION IN THE MOUNTAINEER: September 9 and September 16 (Wednesday) editions

Date: August 26, 2026

Contact: Olga Grooman, (828) 356-1172

NOTICE OF PUBLIC HEARING WAYNESVILLE TOWN COUNCIL

The Town Council will hold a public hearing **on Tuesday, September 22, 2026, at 6:00 p.m.**, in the Town Hall Board Room, located at 9 South Main Street, Waynesville, NC, to consider text amendments to Chapter 30 – Fire Prevention and Protection, Section 30-3 – Inspections for Fire Hazards, of the Waynesville Code of Ordinances. The proposed text amendments would update periodic fire inspection standards and add requirements for the installation of key boxes when there is a change in occupancy classification.

For more information contact the Development Services Department at: (828) 356-1172, email: ogrooman@waynesvillenc.gov, mail: 9 South Main Street, Suite 110, Waynesville, NC 28786.

**TOWN OF WAYNESVILLE TOWN COUNCIL
REQUEST FOR COUNCIL ACTION
Meeting Date: September 22, 2026**

SUBJECT: Consideration of Budget Amendment – Water Treatment Plant Critical Improvements

AGENDA INFORMATION:

Agenda Location: New Business
Department: Public Works
Contact: Laura Yonkers
Presenter: Laura Yonkers and Cody Stiles, Water Treater Superintendent

SUMMARY:

Staff requests that the Town Council approve a budget amendment appropriating \$130,500 from approximately \$400,000 in excess Water revenues realized during the prior fiscal year to address critical and necessary improvements at the Water Treatment Plant.

The Water Treatment Plant is a critical component of the Town's water system and is responsible for providing safe, reliable drinking water to the community. The improvements outlined in this request are necessary to protect the plant's infrastructure, maintain effective water treatment operations, preserve water quality, and ensure that staff can safely and reliably access and maintain the Town's watershed.

These projects represent essential infrastructure needs that should be addressed promptly to prevent further deterioration, avoid more costly repairs, and reduce the potential for interruptions or limitations to water treatment operations. The requested funding will address three immediate priorities: roof repairs, filter-bed media replenishment, and watershed road repair and stabilization.

Water Treatment Plant Roof – \$73,000

The Water Treatment Plant roof is currently experiencing significant leaks. Water is entering the building and has progressed to the second of the facility's three floors, with ceiling tiles falling as a result of water intrusion.

Continued water intrusion presents a risk to the building's interior, electrical and mechanical systems, equipment, and overall structural integrity. Delaying repairs could result in substantially greater damage and expense.

The estimated cost to repair the roof is \$73,000.

Given the plant's importance to the Town's drinking-water system, repairing the roof is a critical infrastructure need and should not be deferred.

Filter-Bed Media – \$20,000

The Water Treatment Plant also requires replenishment of its filter-bed media at an estimated cost of \$20,000. Filter media is an essential component of the water treatment process and is necessary to maintain effective filtration and water-quality performance.

Since Hurricane Helene, the plant has experienced increased turbidity following significant rain events, in part due to exposed and disturbed soils throughout the watershed. These conditions place additional demands on the treatment process and contribute to the gradual loss and degradation of filter media.

Filter media is also naturally lost over time through the normal backwashing process and media migration. Additional media is therefore needed now to maintain effective treatment operations.

A full replacement or rehabilitation of the filter beds is anticipated to be necessary within the next four years. Replenishing the media at this time will help maintain the effectiveness of the existing treatment system until that larger project can be undertaken.

Maintaining adequate filter-bed media is necessary to support consistent treatment performance and protect the Town's ability to provide reliable, high-quality drinking water.

Watershed Road Repair and Stabilization – \$37,500

The watershed maintenance road system was not fully repaired following Hurricane Helene and continues to require attention. Exposed and disturbed soils throughout the watershed have contributed to increased turbidity following rain events, creating additional challenges for the Water Treatment Plant's treatment processes.

Hydro-seeding and stabilization of disturbed areas will help reduce erosion, stabilize exposed soils, and decrease the amount of sediment entering the watershed and ultimately affecting raw water quality.

In addition, potholes, inadequate drainage and water breaks, insufficient road material, and poor road conditions are limiting reliable access to portions of the watershed. Maintaining dependable access is essential for Water Treatment Plant staff and the Forestry Division to conduct routine inspections, watershed management, maintenance activities, and emergency response.

The funds currently available in this account have already been designated for spillway repairs, which represent another critical watershed infrastructure project. Providing additional funding for road repairs and stabilization will allow the Town to address these needs without diverting funds from the planned spillway work.

The requested \$37,500 will provide funding for necessary watershed road repairs, grading, material, drainage improvements, and stabilization activities.

Reliable watershed access and effective erosion control are particularly important because the condition of the watershed directly affects the quality of the raw water entering the Town's treatment system.

Project Description	Amount
Roof Repair	\$73,000
Filter-Bed Media	\$20,000
Watershed Road Repair	<u>\$37,500</u>
Total Current Balances	\$130,500

MOTION FOR CONSIDERATION:

To approve the amendment to the Water Treatment Plant budget, **Fund/Account 61-7122-00 – Capital Projects (Water Treatment Plant Improvements)**, appropriating **\$130,500 from available excess Water revenues realized during the prior fiscal year**, and to authorize staff to proceed with the necessary repairs, maintenance, contractual services, filter-bed media replenishment, and watershed road repair

and stabilization activities described herein.

FUNDING SOURCE/IMPACT:

The proposed improvements total **\$130,500** and will be funded from approximately **\$400,000** in **excess Water revenues realized during the prior fiscal year**.

The proposed budget amendment will allow the Town to address immediate and critical Water Treatment Plant and watershed needs while preserving funding for other necessary water system operations and previously identified capital projects.

The use of excess Water revenues for these improvements represents an investment in the **protection, reliability, and resiliency of the Town's water treatment infrastructure and watershed**.



Ian Barrett, Finance Director

9/15/2026

Date

MANAGER'S COMMENTS AND RECOMMENDATIONS:

Ordinance No. O-43-26

Amendment No. 10 to the 2026-2027 Budget Ordinance

WHEREAS, the Town Council of the Town of Waynesville wishes to amend the 2026-2027 Budget Ordinance.

NOW, THEREFORE, BE IT ORDAINED by the Town Council of the Town of Waynesville that the 2026-2027 Budget Ordinance be amended as follows:

General Fund:

Increase the following revenues:

Water Treatment- Fund Balance Appropriated	\$130,500
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Increase the following appropriations:

Water Treatment Capital & Repairs	\$130,500
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Adopted this 8th day of July 2026.

Town of Waynesville

Gary Caldwell
Mayor

Attest:

Candace Poolton
Town Clerk

Approved As To Form:

Martha Sharpe Bradley
Town Attorney

**TOWN OF WAYNESVILLE TOWN COUNCIL
REQUEST FOR BOARD ACTION
Meeting Date: 09/22/2026**

SUBJECT: Legislative restriction on local government zoning authority

AGENDA INFORMATION:

Agenda Location: Town Attorney's Report

Item Number:

Department: Legal

Contact: Martha Bradley

Presenter: **Martha Bradley**

BRIEF SUMMARY: The Town Attorney will provide an overview of legislative restrictions on the authority of municipalities to regulate and enforce zoning ordinances.

MOTION FOR CONSIDERATION: None.

FUNDING SOURCE/IMPACT: None.

ATTACHMENTS:

COMMENTS AND RECOMMENDATIONS