



DEPARTMENT OF THE ARMY
CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A HAGOOD AVENUE
CHARLESTON, SC 29403-5107

September 22, 2020

Regulatory Division

Mr. Chad Long
South Carolina Department of Transportation
P.O. Box 191
Columbia, South Carolina 29202
LongCC@scdot.org

Dear Mr. Long:

Enclosed is your Department of the Army Permit SAC-2015-01080. It authorizes you to perform the work specified in the attached drawings. This permit is issued under provision of Federal laws for the protection and preservation of waters of the United States.

Please notify this office promptly, in writing or via email to Stephen A. Brumagin, Project Manager, when you start and complete work. Be aware a special condition is included in this permit requiring a copy of the permit and drawings be available at the work site during the entire time of construction.

Sincerely,

A handwritten signature in black ink, appearing to read "Travis G. Hughes".

HUGHES.TRAVIS.G.122
9867748
2020.09.22 09:25:42
-04'00'

Travis G. Hughes
Chief, Regulatory Division

Attachments

DA Permit SAC-2015-01080
Carolina Crossroads Permitted Plans
PH Timber PRM Permitted Plans
Notice of Commencement or Completion

DEPARTMENT OF THE ARMY PERMIT

Permittee: **South Carolina Department of Transportation**
C/O Mr. Chad Long

P.O. Box 191
Columbia, South Carolina 29202

Permit No: **SAC-2015-01080**

Issuing Office: **CHARLESTON DISTRICT**

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description:

The authorized work consists of the improvement of existing roadways and Interstate (Interstate 20, 26 & 126), construction of additional travel lanes and updates/improvements to the existing Interstate Interchanges within the Carolina Crossroads Corridor Improvement Project area. In detail, these construction activities will include the placement of fill within 2.76 acres of wetlands, conduct mechanical land clearing in 1.66 acres of wetland and the placement of fill/rock/structures in 8,136 linear feet of stream, 2,538 linear feet of morphologic impact and 2,295 linear feet of stream relocation (total 12,969 linear feet).

This permit will also authorize the following activities/impacts with waters of the U.S. in the PH Timber PRM site in Newberry County:

- 2,525 linear feet of in-stream impacts within several tributaries within the PH Timber site. These in-stream activities include placement of rock/fill/woody material for streambank stabilization/reinforcement, placement of rock/fill for development of riffles or for altering the elevation of the stream channel to modify stream grade and removal of areas of accumulated gravel bars.
- Construction of several reaches of new restored stream channel (off-line) within upland areas. This will include creation of new stable, functioning stream channel and placement of fill/rock in 15,354 linear feet of existing stream channel once flow has been directed into the newly constructed channel.
- The replacement of two existing roadway culverts with similarly sized culverts and will include the placement of 155 linear feet of rock riffle/pool within three tributaries adjacent to the culvert replacements.
- Cut/fill in 0.004 acre of wetland associated with authorized in-stream mitigation construction.
- Draining of an existing 0.39-acre impoundment within the PH Timber PRM site. Once this impoundment is drained, the impoundment area will be filled and stabilized.

All work is to be completed in accordance with attached drawings entitled:

SHEETS 1-40, 42, 44-63, 65-67 AND 74-78, "CAROLINA CROSSROADS PROJECT ID NO. P027662 RICHLAND COUNTY, SC LEXINGTON COUNTY, SC APPLICATION BY SCDOT, NOVEMBER 6, 2019";

SHEETS 41 & 43 AND 69-73 "CAROLINA CROSSROADS PROJECT ID NO. P027662 RICHLAND COUNTY, SC LEXINGTON COUNTY, SC APPLICATION BY SCDOT REVISED JULY 15, 2020";

SHEET 64 & 68, "CAROLINA CROSSROADS PROJECT ID NO. P027662 RICHLAND COUNTY, SC LEXINGTON COUNTY, SC APPLICATION BY SCDOT, REVISED AUGUST 27, 2020";

and

"Carolina Crossroads Mitigation Site-PH Timber Tract Newberry County, South Carolina", Sheets 1.1 to 1.9, Sheets 2.1.1 to 2.1.32 and Sheets 2.2.1 to 2.2.19, dated May 20, 2020

Project Location:

This project is located within a 28,800-acre project area around the intersections/interchanges of Interstate 20 (I-20), Interstate 26 (I-26) and Interstate 126 (I-126) in Lexington and Richland Counties, South Carolina. (Latitude 34.036752 N, Longitude 81.110618 W (NAD83)).

General Permit Conditions:

1. The time limit for completing the work authorized ends on **September 30, 2035**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Permit Conditions:

See Appendix A, pages 6 through 11.

Further information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403)
- Section 404 of the Clean Water Act (33 USC 1344)
- Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413)

2. Limits of this authorization.

- a. This permit does not obviate the need to obtain other Federal, State or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume liability for:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data. The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. The Corps may reevaluate its decision on this permit any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to:

- a. Failure to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which the Corps did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by the Corps, and if you fail to comply with such directive, the Corps may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of DA permit SAC-2015-01080.

Christy A. Hall P.E.

9/21/2020

(PERMITTEE)
Christy A. Hall, P.E.
Secretary of Transportation
South Carolina Department of Transportation

(DATE)

Christy A. Hall, P.E.

PRINT NAME

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Rachel A. Honderd

9/21/2020

(DISTRICT ENGINEER)
RACHEL A. HONDERD
Lieutenant Colonel, EN
Commander, U.S. Army Engineer District, Charleston

(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEEE) (PRINT NAME)

(DATE)

**APPENDIX A
SPECIAL CONDITIONS FOR PERMIT SAC-2015-01080**

- a.** The permittee agrees to provide all contractors associated with construction of the authorized activity a copy of the permit and drawings. A copy of the permit must be available at the construction site at all times.
- b.** The permittee shall submit a signed compliance certification to the Corps within 60 days following completion of the authorized work and any required mitigation. The certification will include:
- 1.** A copy of this permit.
 - 2.** A statement that the authorized work was done in accordance with the Corps authorization, including any general or specific conditions.
 - 3.** A statement that any required mitigation was completed in accordance with the permit conditions.
 - 4.** The signature of the permittee certifying the completion of the work and mitigation.
- c.** The permittee shall implement the following environmental commitments to protect cultural resources present with the project boundary. The commitments include:
- 1.** During the construction phase of the project, the contractor and subcontractors must notify their workers to watch for the presence of any prehistoric or historic remains, including but not limited to arrowheads, pottery, ceramics, flakes, bones, graves, gravestones, or brick concentrations. If any such remains are encountered, the Resident Construction Engineer (RCE) and SCDOT's Construction Manager would be immediately notified and all work in the vicinity of the discovered materials and site work shall cease until the SCDOT Chief Archaeologist directs otherwise. SCDOT Chief Archaeologist, Tracy Martin, can be contacted at 803-737-6371.
 - 2.** An archaeological professional will be present during any ground disturbing activities related to Site 38LX212 and 38RD59. Additionally, sites 38RD140, 38RD1175, and 38RD1176 will be protected from indirect effects, including borrow sites and equipment staging. Sites will be clearly marked in the field using orange construction fencing prior to beginning construction activities in the vicinity of the resources.
 - 3.** The Saluda Canal (Site 38RD59) would be clearly plotted on all construction plans. SCDOT has reduced ROW widths in the vicinity of the canal to avoid impacts to the canal during construction & any future maintenance activities along the ROW. A 25-foot buffer will be maintained around the canal for the majority of the resource. This zone would be clearly marked in the field using orange fencing during construction, and all ground disturbance and construction staging activities would be conducted outside of this buffer in order to avoid all possible impacts to the resource. SCDOT proposes to revise the commitment of a 25-foot buffer for a

distance of approximately 700 feet along the proposed ramp to allow room for temporary construction access & equipment near 1-26 Ramp C. To protect the boundary of the canal at this location, the following will be added to the contract as commitments:

- a. Prior to construction activities orange protective fencing will be installed along the edge of boundary of the Saluda Canal Historic District in areas that will maintain the original buffer as well as those areas where the buffer has been requested to be reduced between the two drainages and for a length to the south of the southernmost drainage.
 - b. Prior to construction activities silt fencing will be installed along the edge of SCOOT right of way to prevent runoff.
 - c. For areas along the identified Saluda Canal located along the 1-26 Ramp C beginning Station 5412+50 and ending Station 5419+50 clearing will be allowable to the right of way but grubbing will be limited to within a distance of 5-feet inside of the right of way. Grubbing activities within the 5-foot buffer will require approval from SCOOT prior to occurring.
 - d. During land clearing activities prior to construction, an archaeologist will be present at all times to ensure that these activities undertaken close to the fencing do not damage the canal.
 - e. During construction, an archaeologist will visit the construction site twice a week to ensure that no activities have crossed over the protective fencing. Any observations during these visits will be recorded in an inspection log that will be made available to the SHPO.
 - f. As soon as an inadvertent impact is discovered, such as a previously unidentified cultural resource, archaeological feature, or artifact, construction in that area will stop immediately until an onsite consultation with SCOOT archaeologists and SHPO can determine the best strategies for avoiding, minimizing, or mitigating adverse effects upon the resource.
- d.** That the permittee shall utilize clean fill materials for the construction of the Carolina Crossroads Corridor Improvement project that are free of potential sources of pollution to protect the water quality of the tributaries to Saluda River and Broad River.”
- e.** That the permittee will provide compensatory stream and wetland mitigation by implementing the permittee-responsible mitigation (PRM) plan entitled, “Mitigation Plan Carolina Crossroads I-20/26/126 Corridor Improvements Lexington and Richland counties, South Carolina” dated June 30, 2020. This PRM plan includes 2,525 linear feet of in stream enhancement, creation of 15, 354 linear feet of new restored stream channel and other impacts within waters. These restoration, enhancement and preservation activities contained in this PRM plan are authorized with this DA permit. The construction activities within waters associated with this approved PRM will need to commence prior to or concurrent with the beginning of the construction of the Carolina Crossroads Corridor Improvement Project. In addition, this PRM plan

includes steps to protect the site, to provide maintenance and management of the site, to provide financial assurances and monitoring activities to document site construction and success. Furthermore, that as part of the “Mitigation Plan Carolina Crossroads I-20/26/126 Corridor Improvements Lexington and Richland counties, South Carolina” dated June 30, 2020, the permittee will provide five years of monitoring including discussion of performance standards as detailed in this PRM plan. This five-year monitoring will begin during the first growing season after all activities (earthmoving, construction, stabilization and planting) within waters of the U.S. approved by this permit have been completed at the PRM sites.

- f.** That as part of the “Mitigation Plan Carolina Crossroads I-20/26/126 Corridor Improvements Lexington and Richland counties, South Carolina” dated June 30, 2020, SCDOT will provide the Corps with documentation of the transfer of ownership of this property to South Carolina Department of Natural Resources and will provide updates on the progression and documentation until the Belfast site and PH Timber site are incorporated into SCDNR’s Belfast Wildlife Management Area.

- g.** That the permittee is not authorized to commence impacts to Tributary 39, including 2,295 linear feet of stream relocation (per drawing Sheets 64-67 of 78), until after the Corps has provided written notice to proceed. The permittee further agrees that as compensatory mitigation for 2,295 linear feet of stream relocation and fill activities associated with Tributary 39, the permittee will submit a draft mitigation plan to address and adequately mitigate for these impacts. No work in waters of the U.S. associated with Tributary 39 is authorized until the permittee receives, in writing, Corps approval of the final Tributary 39 stream mitigation plan (e.g., a stream restoration plan, or the purchase of adequate stream mitigation credits for the 2,295 linear feet of impacts). The permittee shall fully implement this final Tributary 39 mitigation plan concurrently with, or prior to, Tributary 39 impacts to waters of the U.S, including the 2,295 linear feet of stream relocation.

- h.** That as compensatory mitigation for impacts to aquatic resources, the permittee agrees to debit 11.32 acres of wetland from SCDOT’s Black River Mitigation Bank. The applicant will provide at least 50% of the required stream and wetland mitigation credits as restoration mitigation credits.

- i.** That the permittee must submit evidence of the purchase or debit of the required mitigation credits to both the Corps of Engineers and SCDHEC prior to commencement of the authorized work. Your responsibility to complete the required compensatory mitigation will not be considered fulfilled until you have received written verification from the U.S. Army Corps of Engineers.

- j.** That the permittee will provide the following Hydrologic and Hydraulic evaluation information to the Corps for review and approval prior to beginning construction of each phase of the Carolina Crossroads Corridor Improvement Project. These items will include the following:
 - 1. The permittee (or designated assignee) agrees that the drainage/conveyance systems shall be designed by a licensed Professional Engineer (PE) to meet all requirements set forth by the South Carolina Department of Transportation (SCDOT), AASHTO, FHWA, and FEMA. The design criteria for storm drainage, culverts, and bridges will be based on SCDOT's "Requirements for Hydraulic

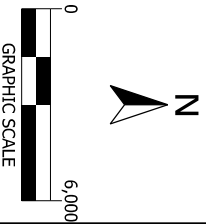
Design Studies" dated May 26, 2009. In addition to the hydraulic analysis required by the SCDOT Requirements for Hydraulic Design Studies, hydraulic analysis the following hydraulic data for all structures (including bridges, culverts, cross-drainage structures and drainage systems) which are located in and/or are associated with jurisdictional Waters of the U.S. will be performed. This analysis will include:

- Pre- and post-flow rate analyses at each outfall location for the 10-year, 25-year, 50-year, and 100-year storms in accordance with SCDOT requirements.
 - Pre- and post-construction hydraulic analyses of cross-lines and pipe inlets for the 10-year, 25-year, 50-year, and 100-year storms with HY-8, HEC-RAS, or other approved modeling software. The pre-construction analysis shall include an evaluation of the pre-construction flows for the pre-project hydraulic conditions. The post-construction analysis shall include an evaluation of the post-construction flows for the post-project hydraulic conditions. The analysis shall be performed to include a comparison of the pre-construction and post-construction water surface elevations and velocities upstream and downstream of cross-drainage structures and pipe inlets.
 - Pre- and post-open channel analyses of outfall channels for the 10-year, 25-year, 50-year, and 100 –year storms.
 - Pre- and post-flow rate analyses at each bridge location for the 10-year, 25-year, 50-year, and 100-year storms in accordance with SCDOT requirements.
2. For all project areas located within FEMA Special Flood Hazard Areas or within Flood Insurance Rate Map (FIRM) mapped areas, the hydraulic analysis and modeling shall be performed in accordance with the following:
- HEC-RAS hydraulic modeling shall be used to evaluate drainage structures within FEMA Special Flood Hazard Areas. If the FEMA effective model utilizes an alternative software, the software used for the FEMA effective model may be utilized to evaluate the drainage structure.
 - Perform required analysis to satisfy requirements of the National Flood Insurance Program including coordination of the results of the hydraulic studies with the local Floodplain Manager. The summary report shall be provided to the local Floodplain Manager and a letter of concurrence shall be requested from the local Floodplain Manager confirming the design satisfies the typical FEMA design criteria.
 - Prepare documentation for coordination with FEMA as required (including receipt of No-Impact Certification or CLOMR/LOMR from FEMA).
3. For any future Department of Army permit modification, the following hydraulic design data shall be provided to the Corps for review/approval 120 days prior to the anticipated commencement of authorized work. Please note

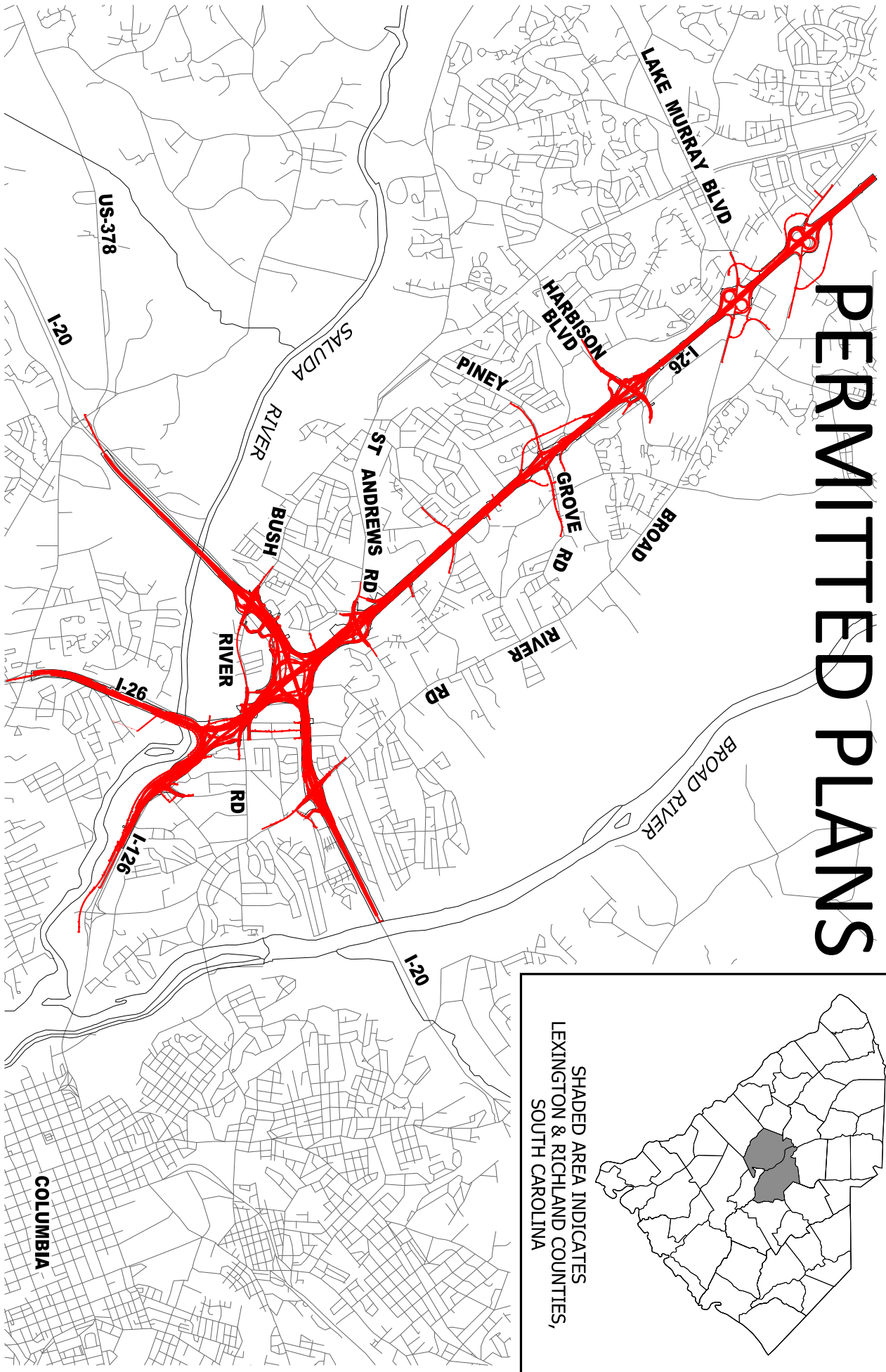
that written authorization/ concurrence must be received from the Corps prior to commencement of work. This information should include:

- **Project plans including structure/feature location with dimensions of existing and proposed structure/feature. These plans should include cross-sectional views detailing authorized structure or modified feature with proposed and existing water surface elevations during all analyzed storm events.**
 - **Details related to any channel relocations that includes existing dimensions along proposed dimensions. These details should include cross sectional views detailing the work and proposed/existing water surface elevations during all analyzed storm events. This relocation plan will also include construction sequencing and Best Management Practices (BMPs) to minimize impact upon the aquatic environment and demonstrate adequate stabilization of the new channel.**
 - **Hydraulic Design Summary Table to include the following:**
 - **Structure, or channel location**
 - **Waterbody Classification (Perennial Stream, Intermittent Stream, Non-Jurisdictional Feature, etc.)**
 - **Existing Drainage Structure dimensions**
 - **Proposed Drainage Structure dimensions**
 - **Invert elevations**
 - **Drainage Area**
 - **Pre- and Post-Construction Design Flows, Headwater Elevations, and Tail water Elevations for the 10-Year, 25-Year, 50-Year, 100-year storm events**
 - **Summary table for outfall (culverts / pipes) riprap protection to include discharge velocities for the 10-year, 25-year, 50-year, and 100-year design storms and dimensions of riprap pads.**
 - **Outlet Protection details**
 - **Top of roadway elevations**
- 4. For areas where this project will cause an increase upon Water Surface Elevation (WSE) that result in water outside of the permittee' s project Right-of-Way from the analyzed storm events, the permittee shall provide details of notification/coordination with each property owner.**
- 5. For each property affected by an increase in post-development WSE, the permittee shall notify the affected property owner(s) and will provide the following details to them: property location, details of the impact to the property, area of extent ponded water (map), and water surface elevation information including the increase over existing conditions and duration of impact to each affected property.**
- k. The permittee must implement appropriate best management practices that will minimize erosion and migration of sediments on and off the project site during and after**

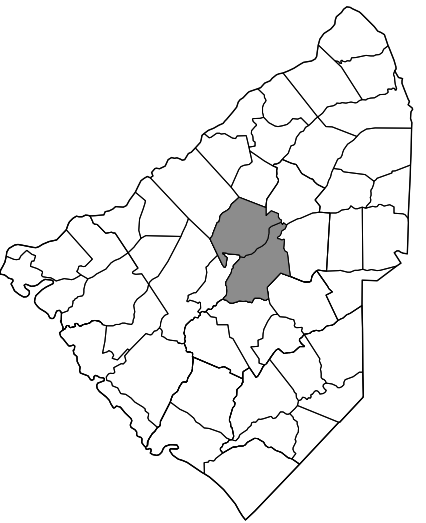
construction. These practices should include the use of appropriate grading and sloping techniques, mulches, silt fences, or other devices capable of preventing erosion, migration of sediments, and bank failure. All disturbed land surfaces and sloped areas affected by the project must be stabilized upon project completion. This will include all requirements of the Water Quality Certification as approved by SCDHEC on August 31, 2020.



PERMITTED PLANS



SHADED AREA INDICATES
LEXINGTON & RICHLAND COUNTIES,
SOUTH CAROLINA



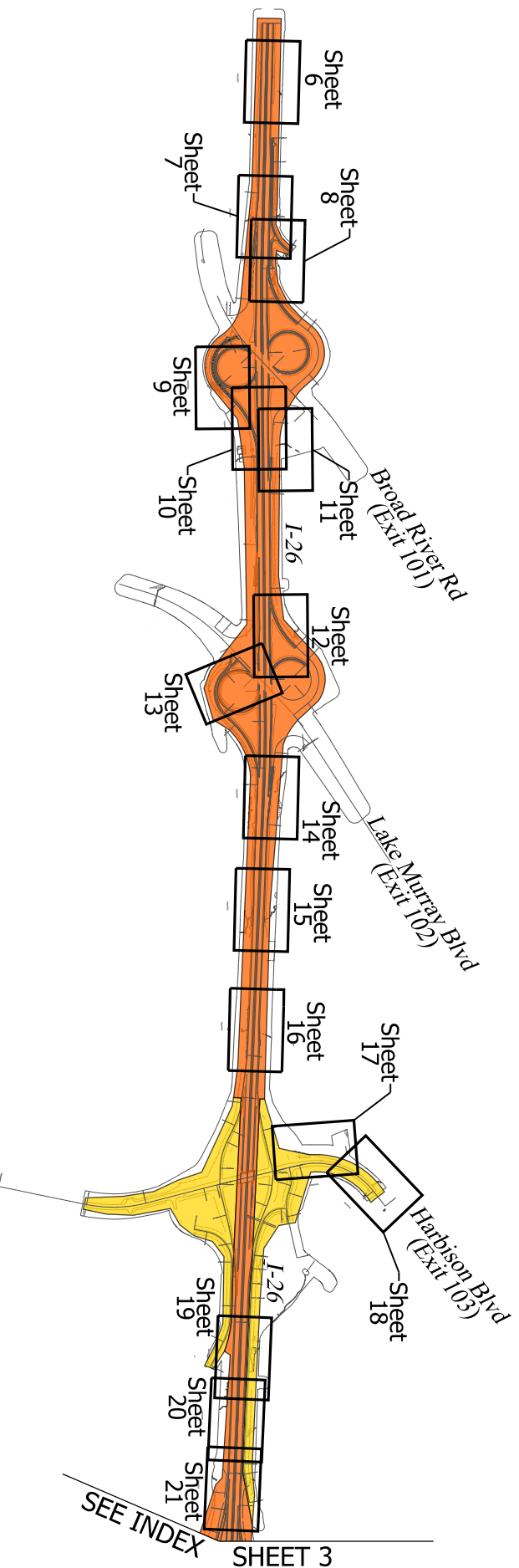
CAROLINA CROSSROADS
PROJECT ID NO. P027662
RICHLAND COUNTY, SC
LEXINGTON COUNTY, SC
APPLICATION BY SCDOT
NOVEMBER 6, 2019



VICINITY MAP

SHEET 1 OF 78

PERMITTED PLANS



PROPOSED CONSTRUCTION PHASING AS OF OCT 2019 - SUBJECT TO CHANGE

LEGEND

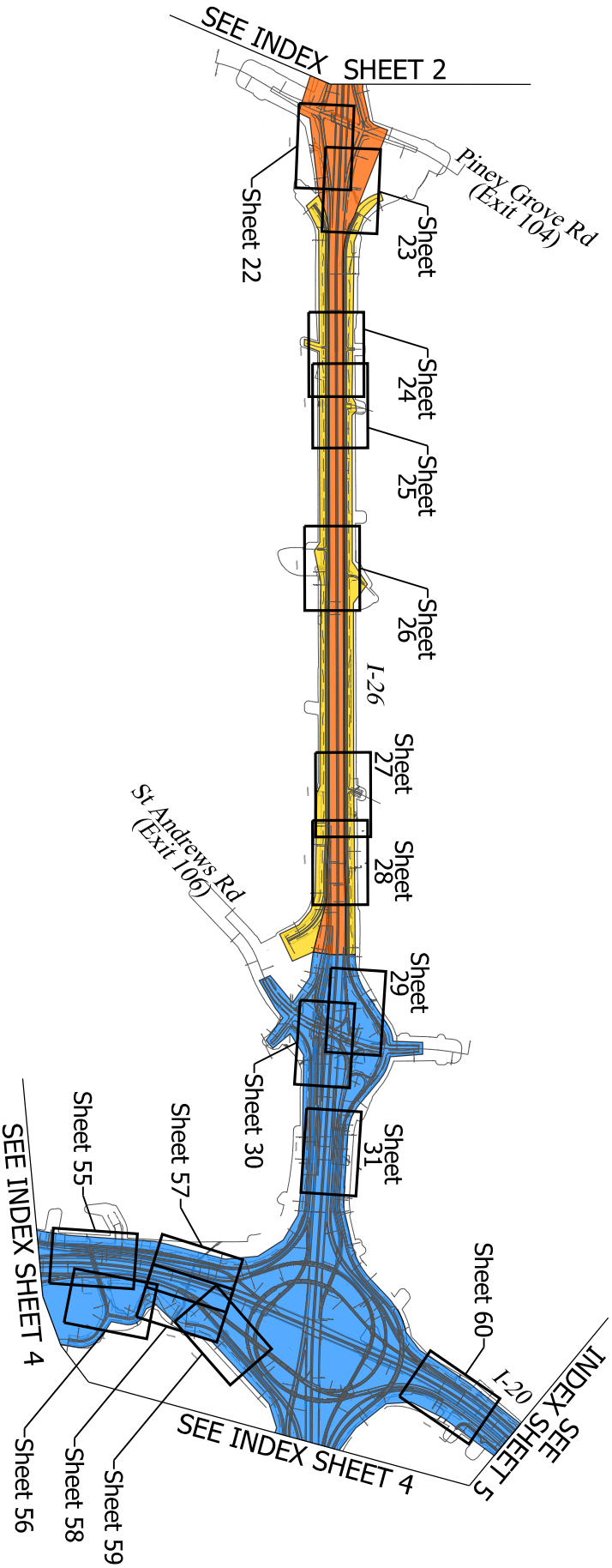
- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5

CAROLINA CROSSROADS
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PERMIT DRAWING
PLAN SHEET LAYOUT INDEX

PERMITTED PLANS



LEGEND

PROPOSED CONSTRUCTION PHASING AS OF OCT 2019 - SUBJECT TO CHANGE

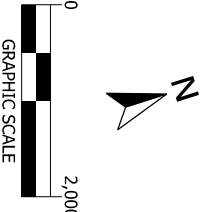
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- PHASE 3
- PHASE 4
- PHASE 5



CAROLINA CROSSROADS
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 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
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PERMIT DRAWING
 PLAN SHEET LAYOUT INDEX

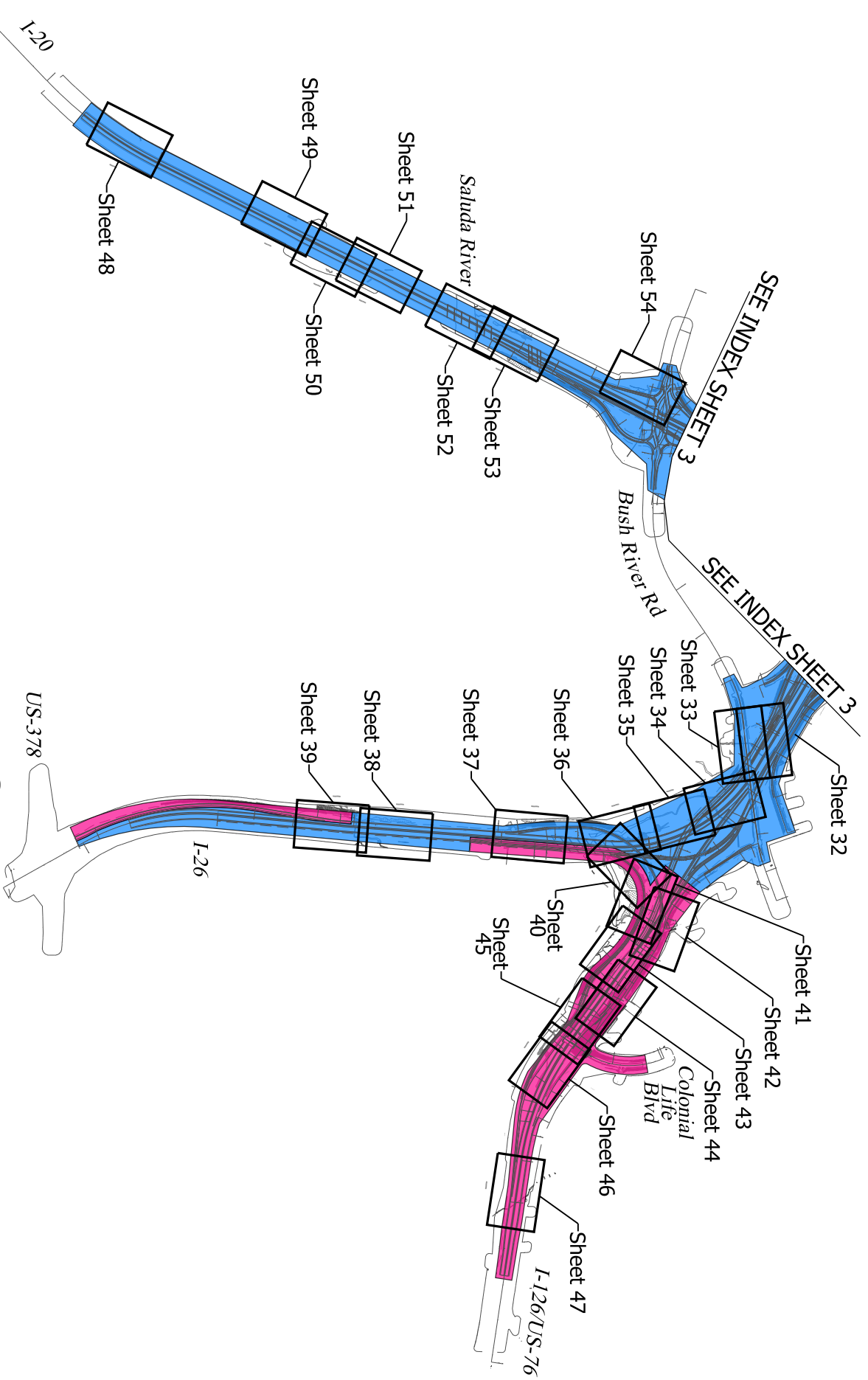


PROPOSED CONSTRUCTION PHASING AS OF OCT 2019 - SUBJECT TO CHANGE

LEGEND

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- PHASE 3 █
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- PHASE 5 █

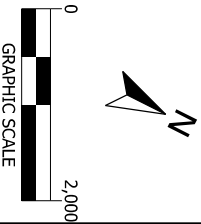
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PERMIT DRAWING
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PROPOSED CONSTRUCTION PHASING AS OF OCT 2019 - SUBJECT TO CHANGE

LEGEND

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5

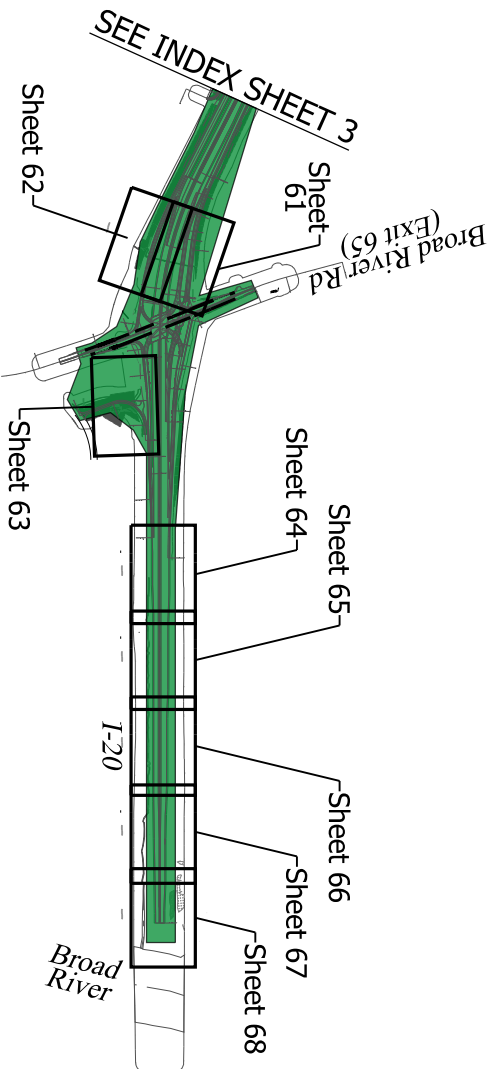
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PERMIT DRAWING
 PLAN SHEET LAYOUT INDEX

SHEET 5 OF 78

PERMITTED PLANS

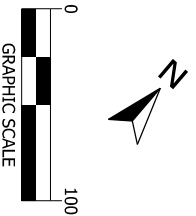
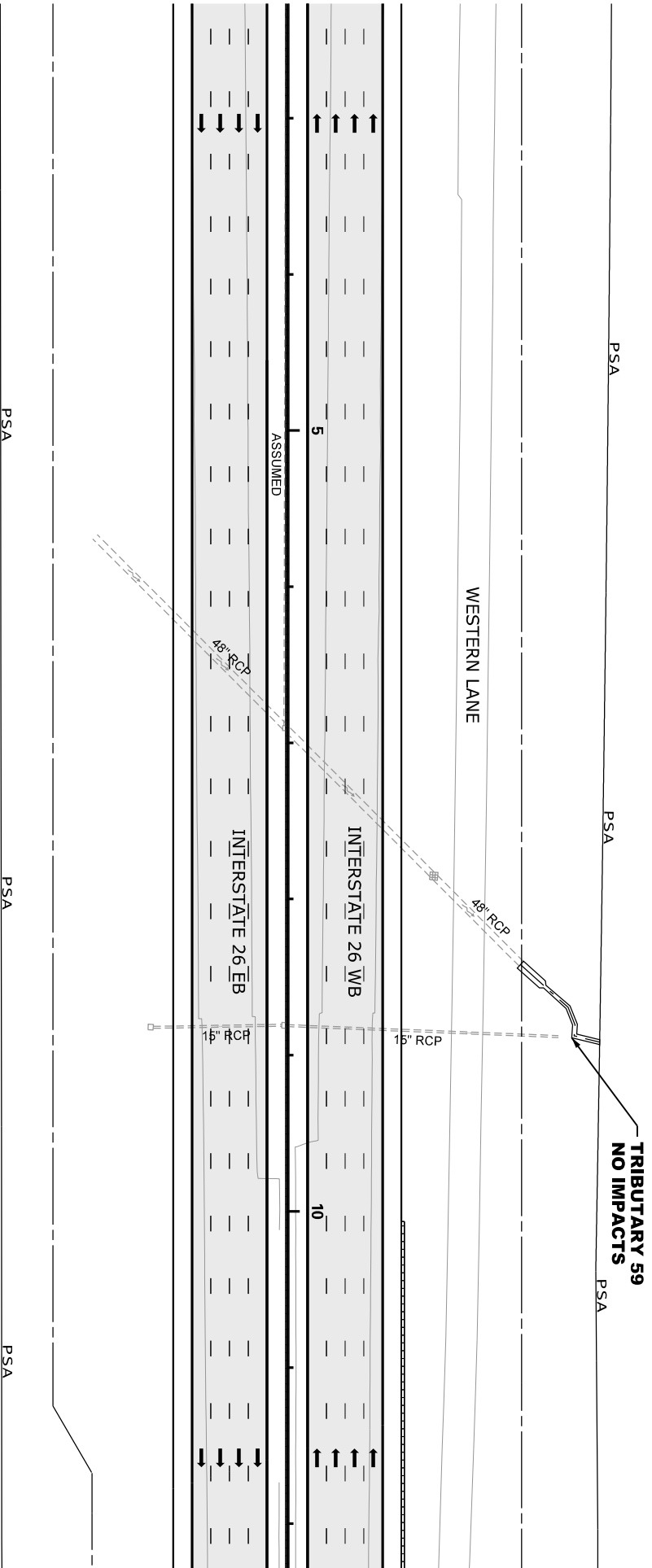


WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

CAROLINA CROSSROADS
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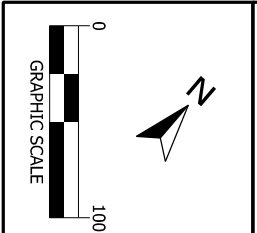


TRIBUTARY 59
 SHEET 6 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 94 LF (716 SF) (0.02 AC)
 TRIB 60 = 35 LF (359 SF) (0.01 AC)
 TRIB 60 = 59 LF (357 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



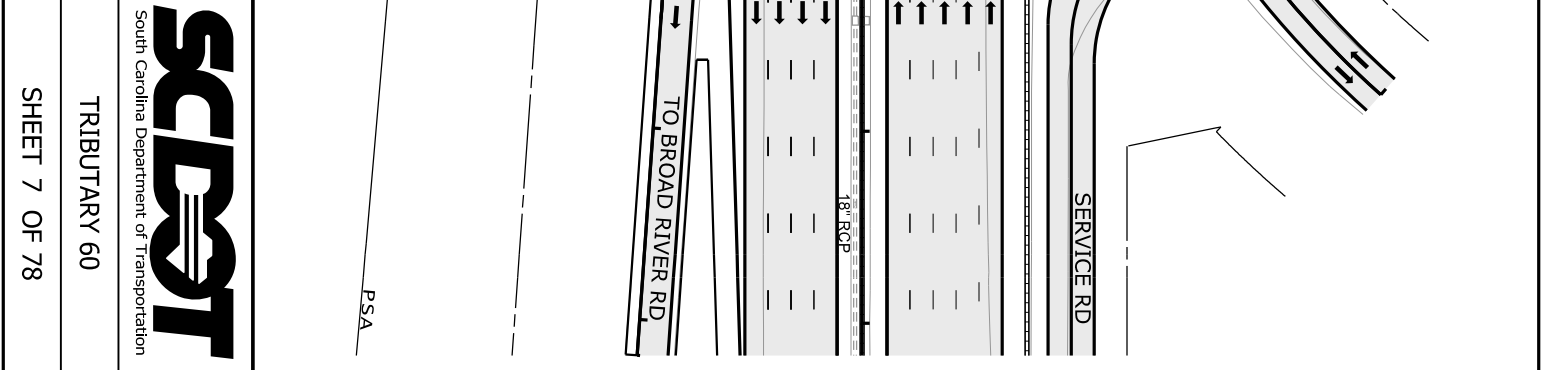
LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

PERMITTED PLANS

CAROLINA CROSSROADS
 PROJECT ID NO. P027662
 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
 APPLICATION BY SCDOT
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TRIBUTARY 60

SHEET 7 OF 78



WETLAND CLEARING IMPACTS = 776 SF (0.02 AC)
 WETLAND 57 = 776 SF (0.02 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 166 LF (698 SF) (0.02 AC)
 TRIB 2 = 166 LF (698 SF) (0.02 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

WETLAND 56
 NO IMPACTS

WETLAND 57

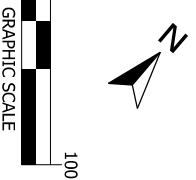
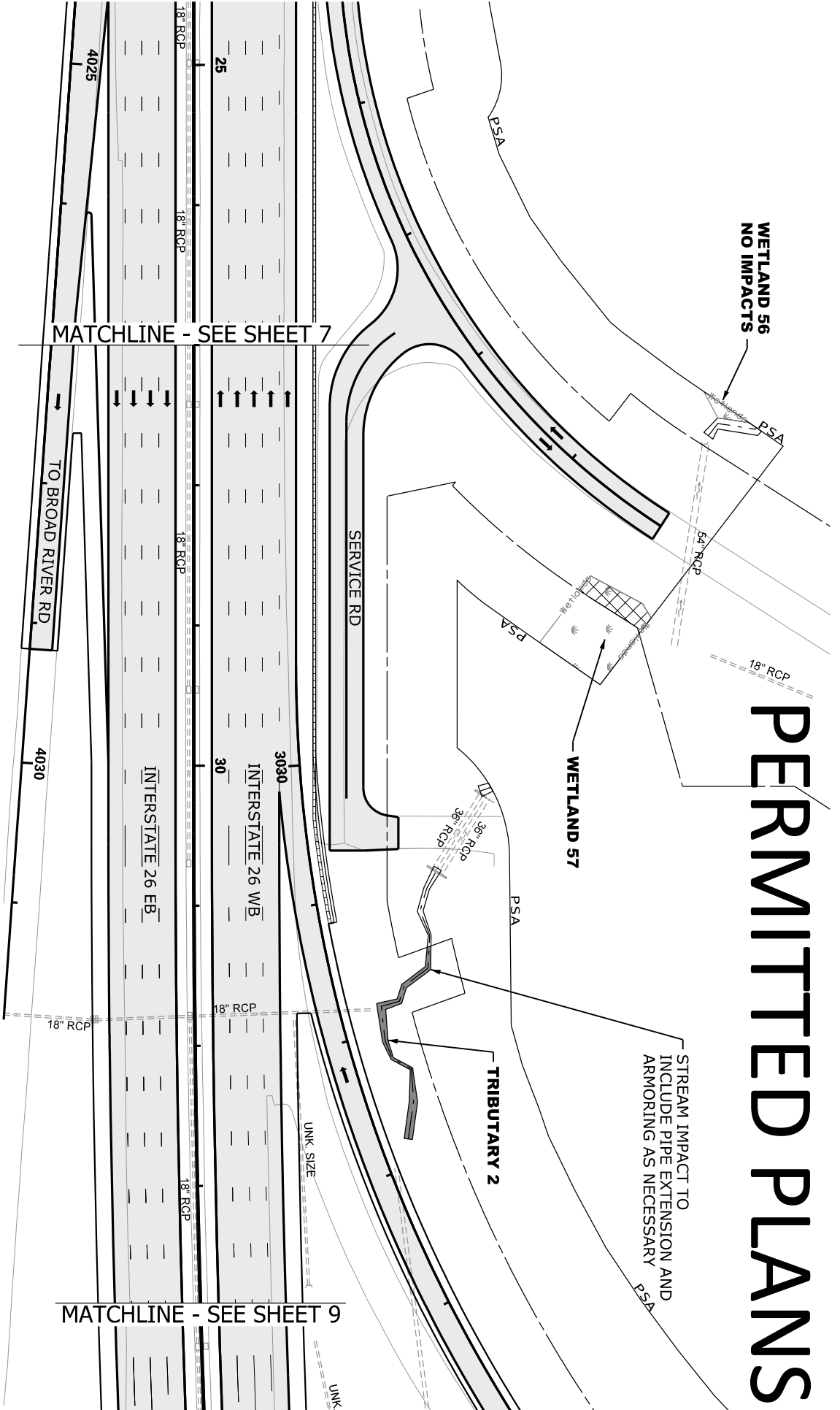
TRIBUTARY 2

STREAM IMPACT TO
 INCLUDE PIPE EXTENSION AND
 ARMORING AS NECESSARY

PERMITTED PLANS

MATCHLINE - SEE SHEET 7

MATCHLINE - SEE SHEET 9



LEGEND					
	EXCAVATION IMPACT		IMPACTED STREAM		PERMIT BOUNDARY
	WETLAND		PERMANENT FILL IMPACT		PROJECT STUDY AREA
	PROPOSED PAVEMENT		CLEARING IMPACT		PSA
	PERMANENT FILL IMPACT		RELOCATED DITCH		EXISTING ROAD
	PROPOSED PAVEMENT		EXISTING RAILROAD		PROP MEDIAN BARRIER WALL
	PROPOSED PAVEMENT		EXISTING RAILROAD		PSA

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 LEXINGTON COUNTY, SC
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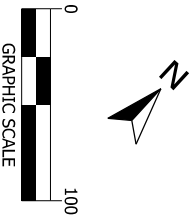
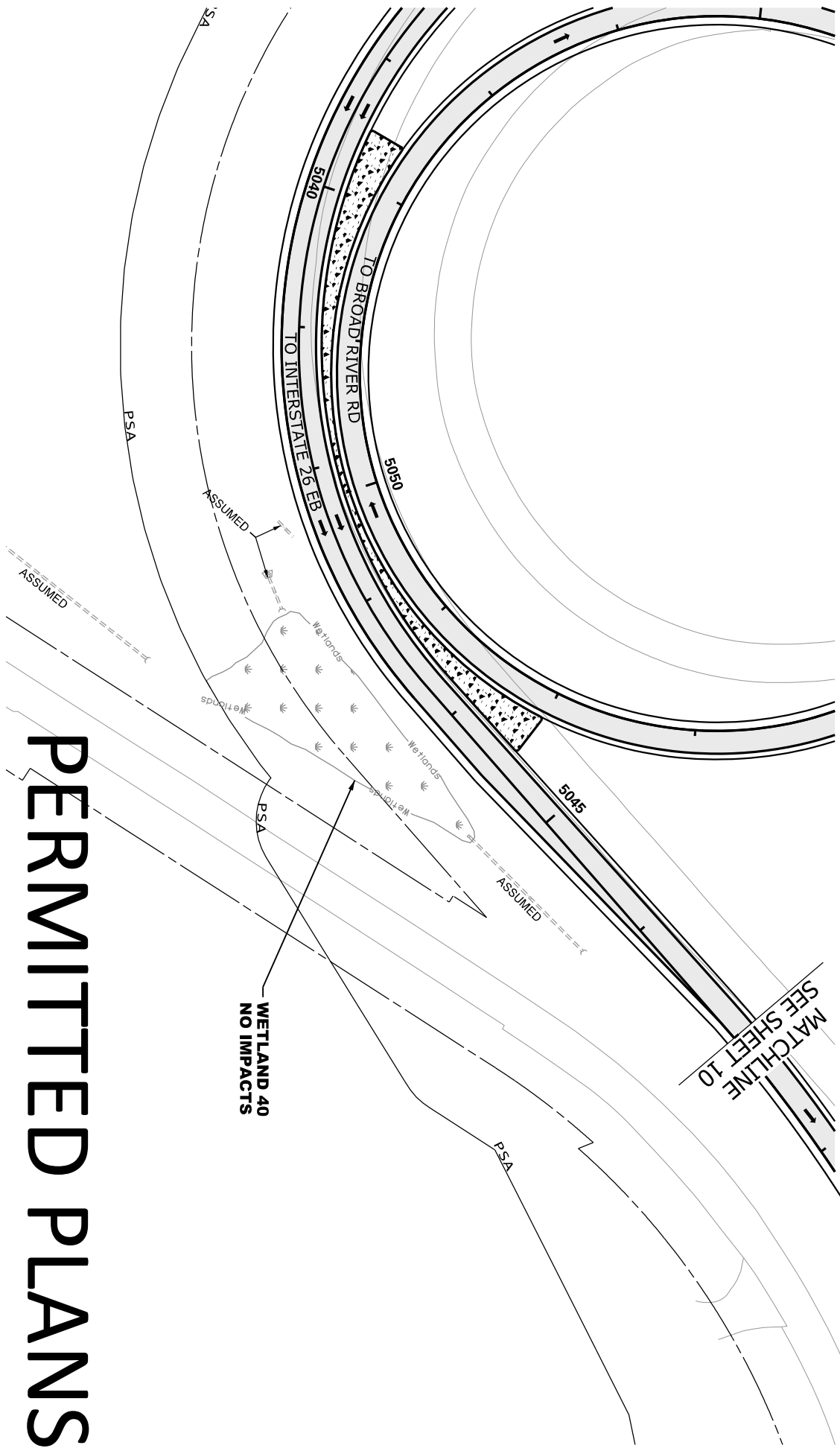
TRIBUTARY 2
 WETLAND 57
 SHEET 8 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

MATCHLINE
 SEE SHEET 10



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

PERMITTED PLANS

WETLAND 40
 NO IMPACTS

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WETLAND 40

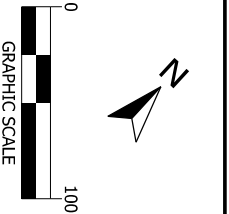
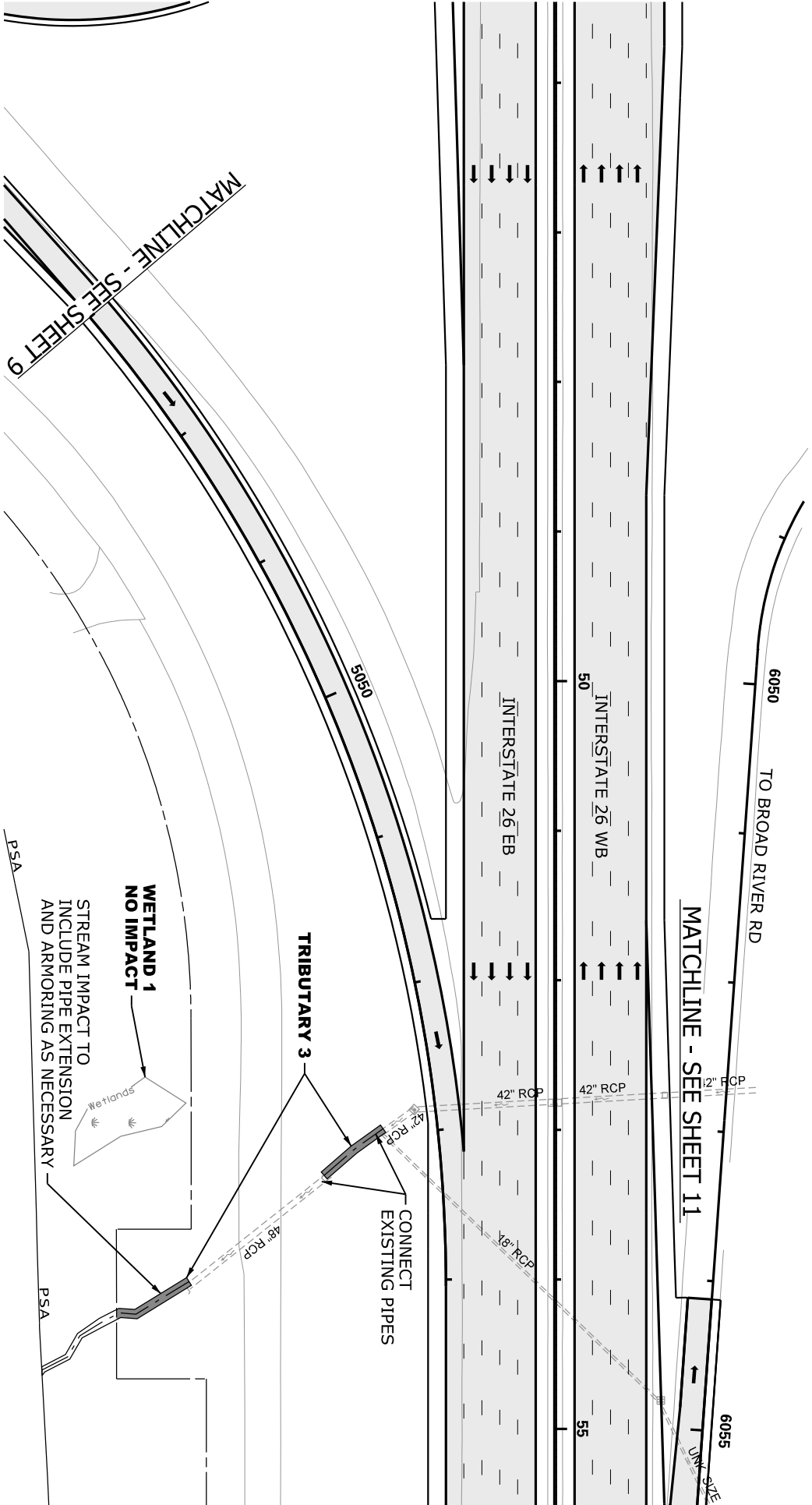
SHEET 9 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 106 LF (632 SF) (0.02 AC)
 TRIB 3 = 106 LF (632 SF) (0.02 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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South Carolina Department of Transportation

TRIBUTARY 3

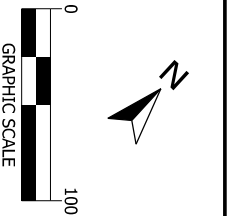
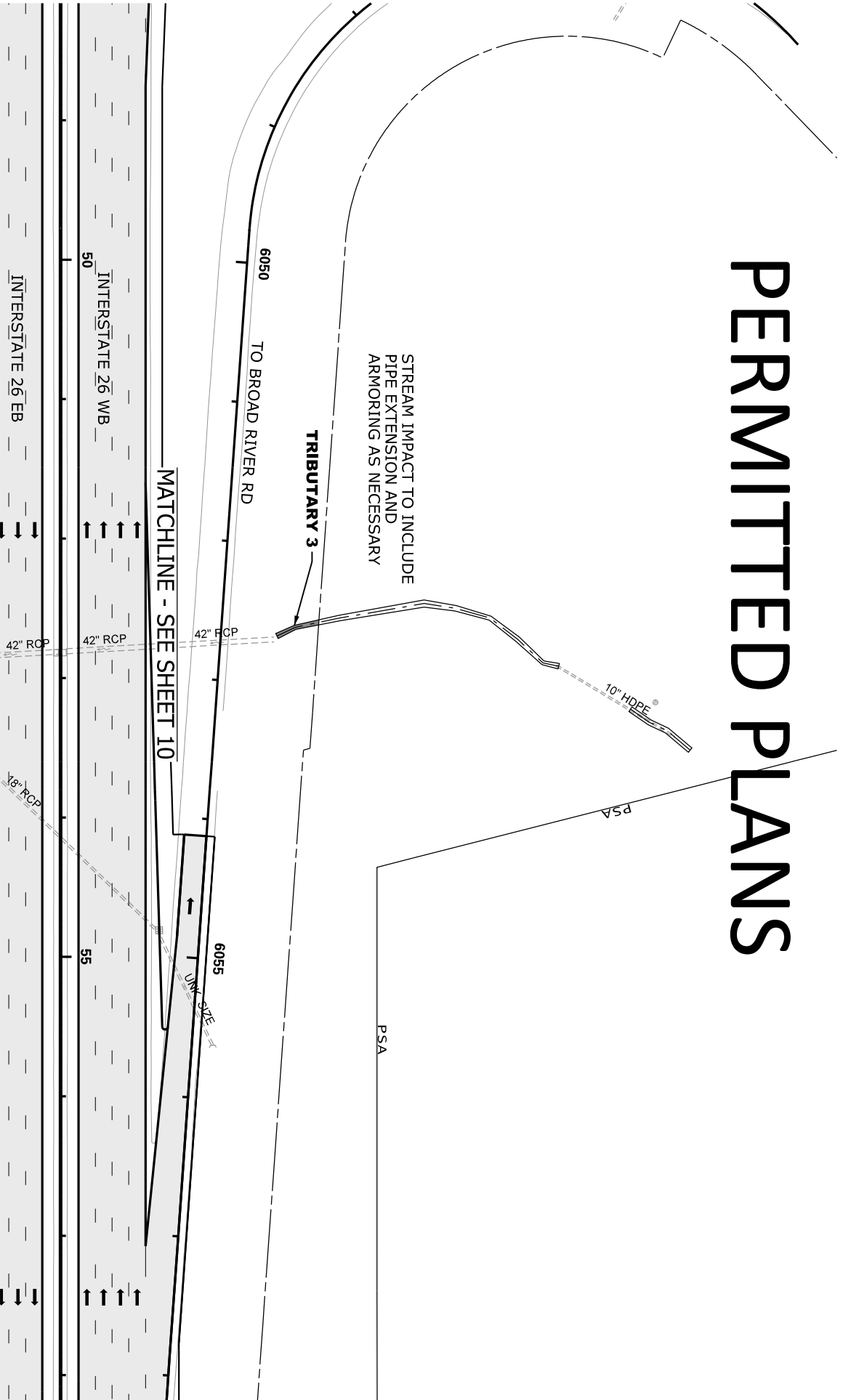
SHEET 10 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 92 LF (108 SF) (0.01 AC)
 TRIB 3 = 92 LF (108 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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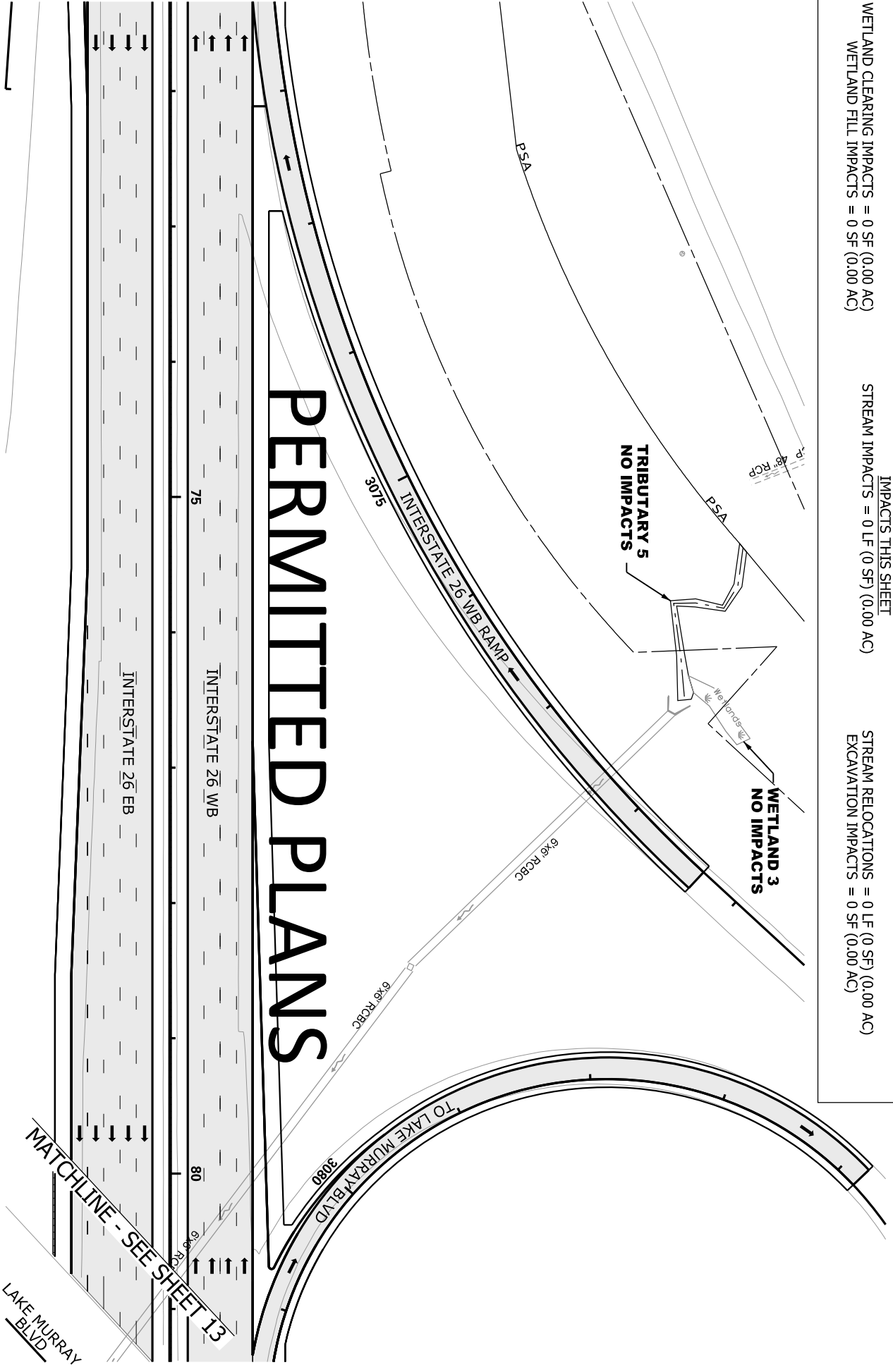
TRIBUTARY 3

SHEET 11 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

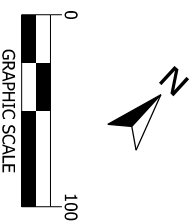
STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



PERMITTED PLANS

LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- RELOCATED DITCH
- PERMIT BOUNDARY
- PROJECT STUDY AREA
- PROP MEDIAN BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD



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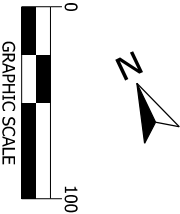
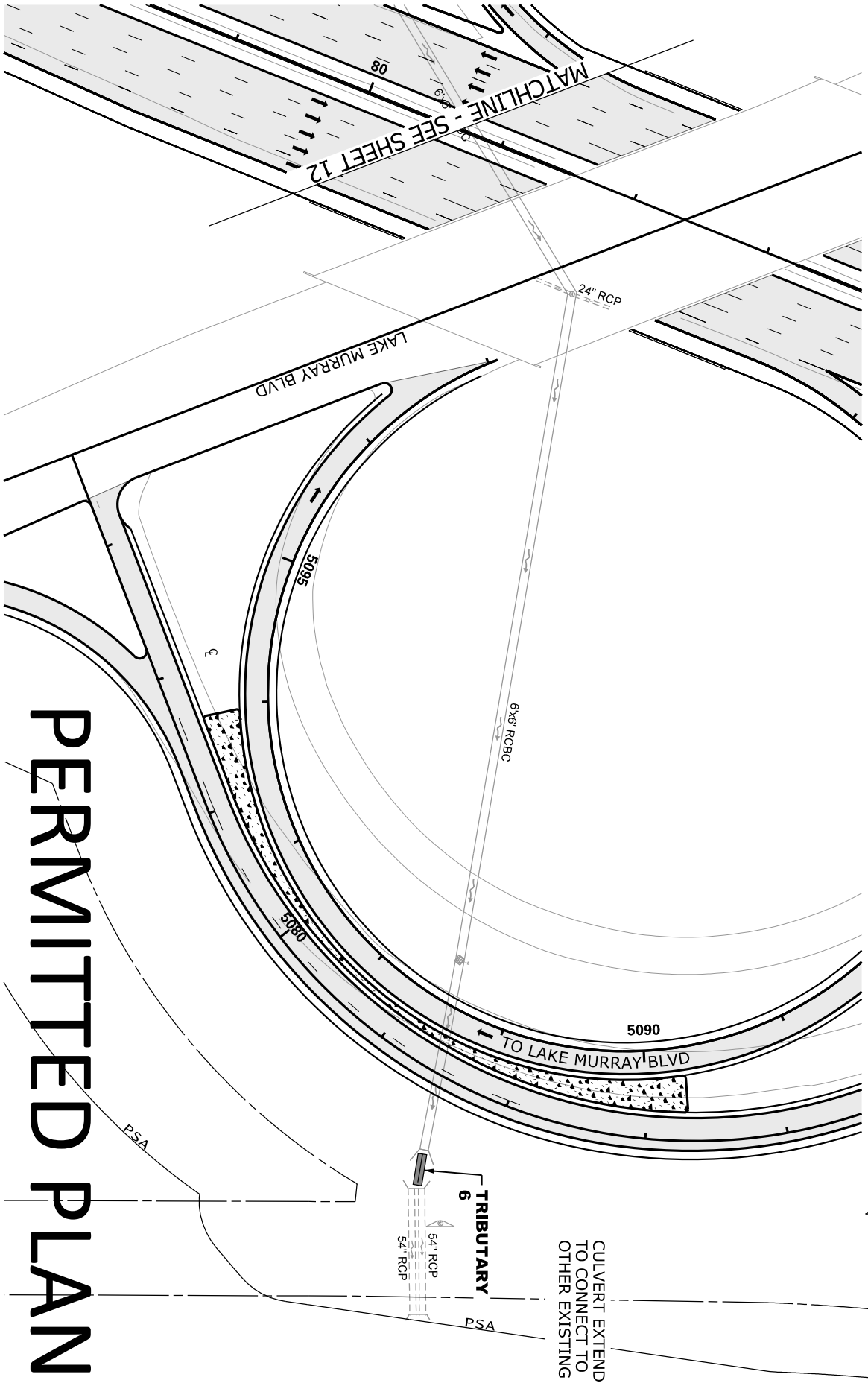


TRIBUTARY 5
 WETLAND 3
 SHEET 12 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 22 LF (132 SF) (0.01 AC)
 TRIB 6 = 22 LF (132 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

PERMITTED PLANS

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TRIBUTARY 6

SHEET 13 OF 78

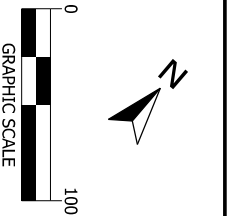
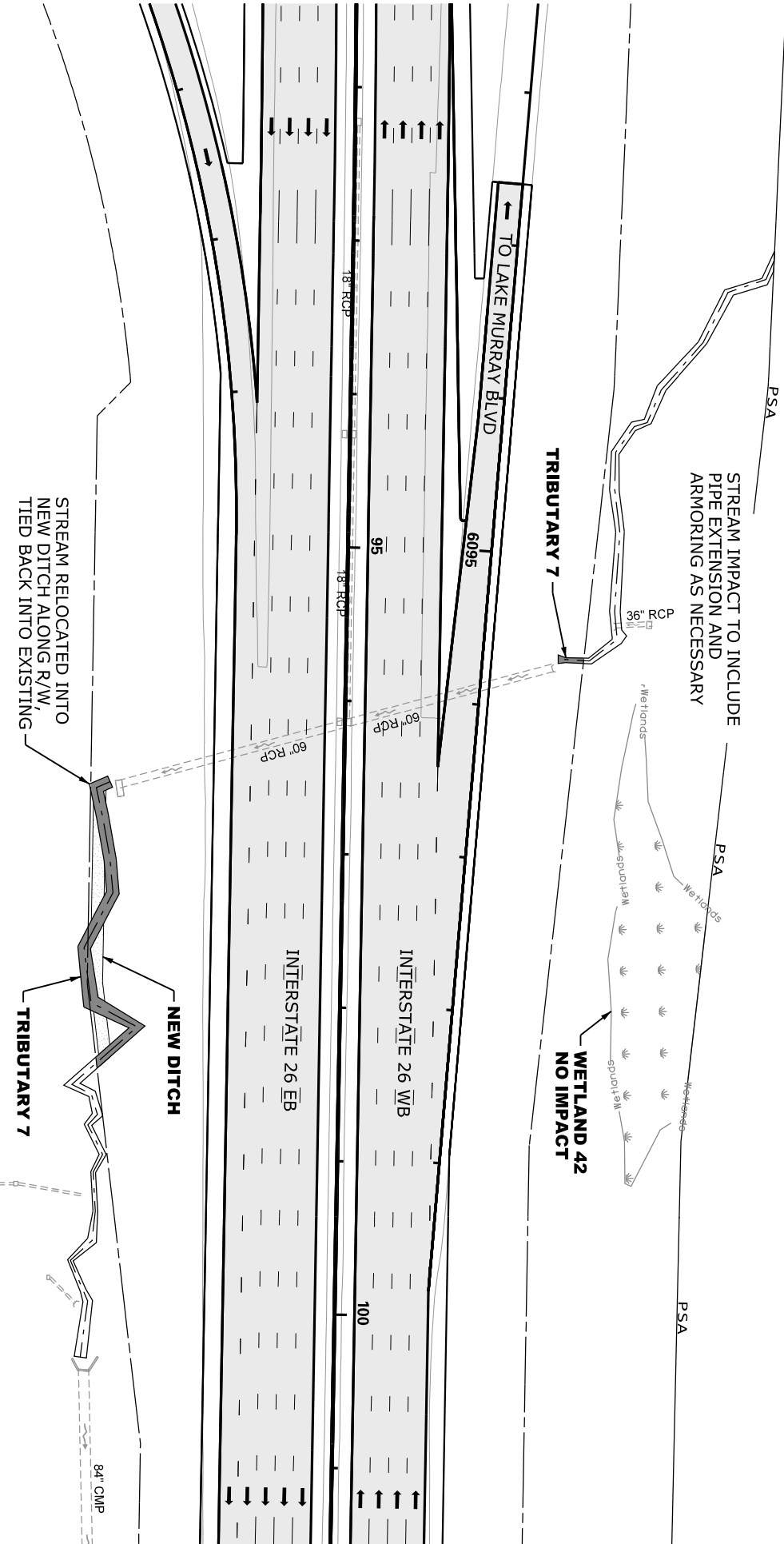
CULVERT EXTENDED
 TO CONNECT TO
 OTHER EXISTING PIPE

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 241 LF (1,825 SF) (0.04 AC)
 TRIB 7 = 16 LF (62 SF) (0.01 AC)
 TRIB 7 = 225 LF (1,763 SF) (0.03 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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TRIBUTARY 7

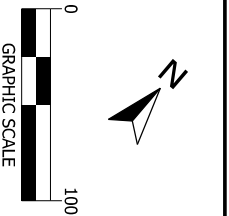
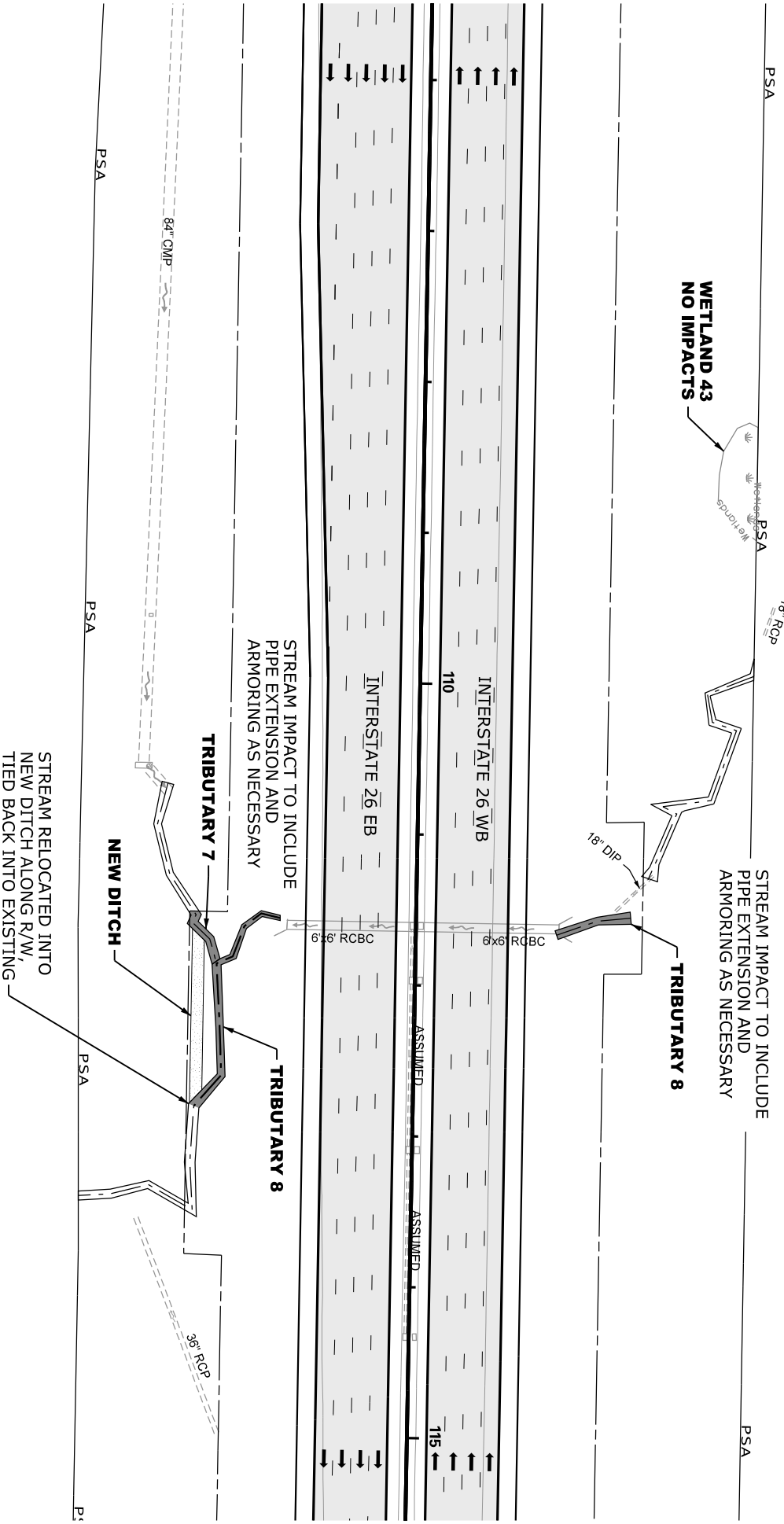
SHEET 14 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 255 LF (1,326 SF) (0.04 AC)
 TRIB 8 = 51 LF (302 SF) (0.01 AC)
 TRIB 7 = 42 LF (238 SF) (0.01 AC)
 TRIB 8 = 162 LF (786 SF) (0.02 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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SCDOT
 South Carolina Department of Transportation

TRIBUTARY 8

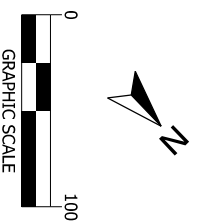
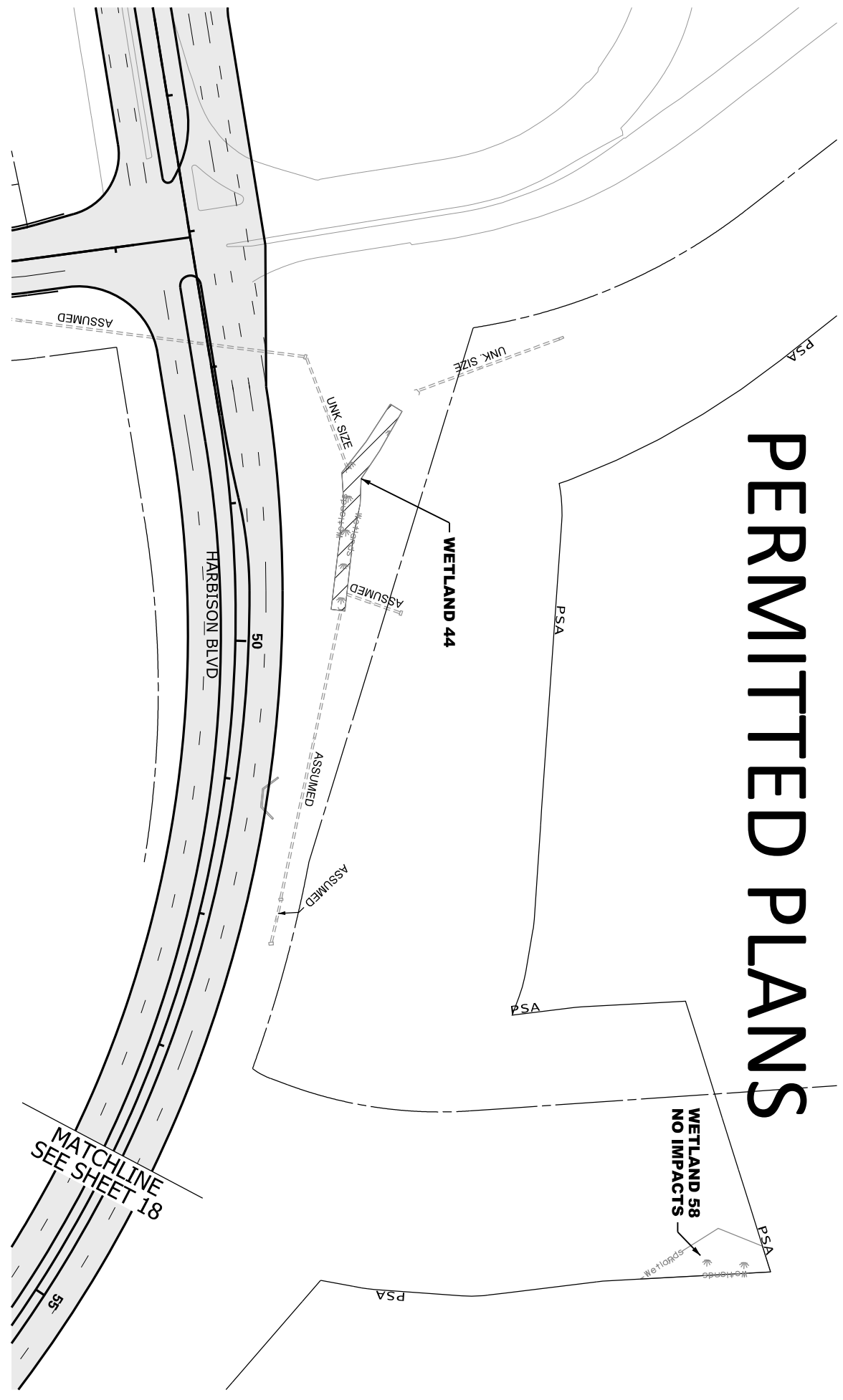
SHEET 15 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 1,759 SF (0.04 AC)
 WETLAND 44 = 1,759 SF (0.04 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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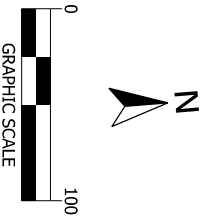
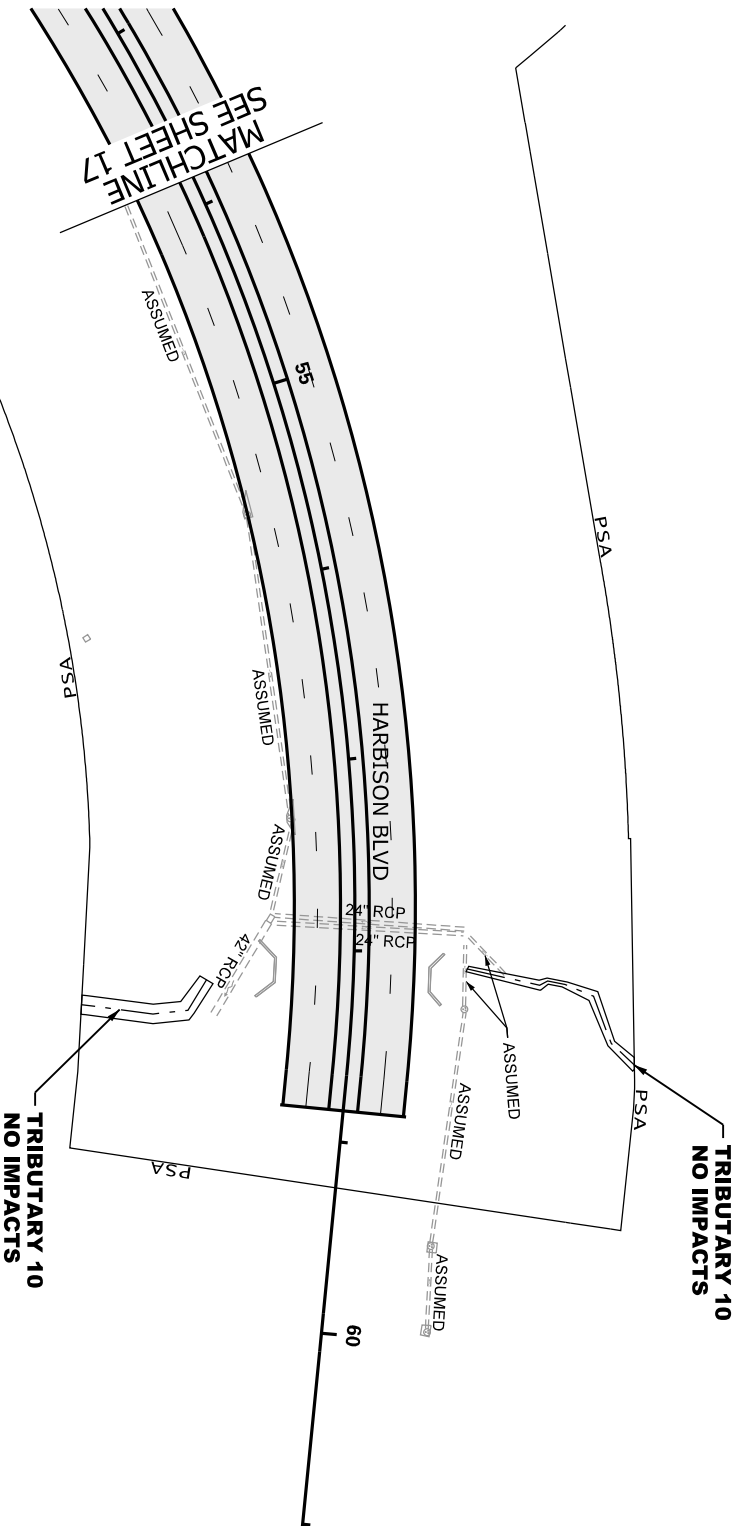
WETLAND 44 & 58
 SHEET 17 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIUM BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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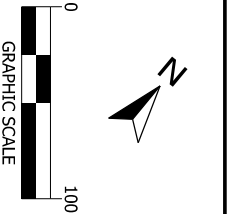
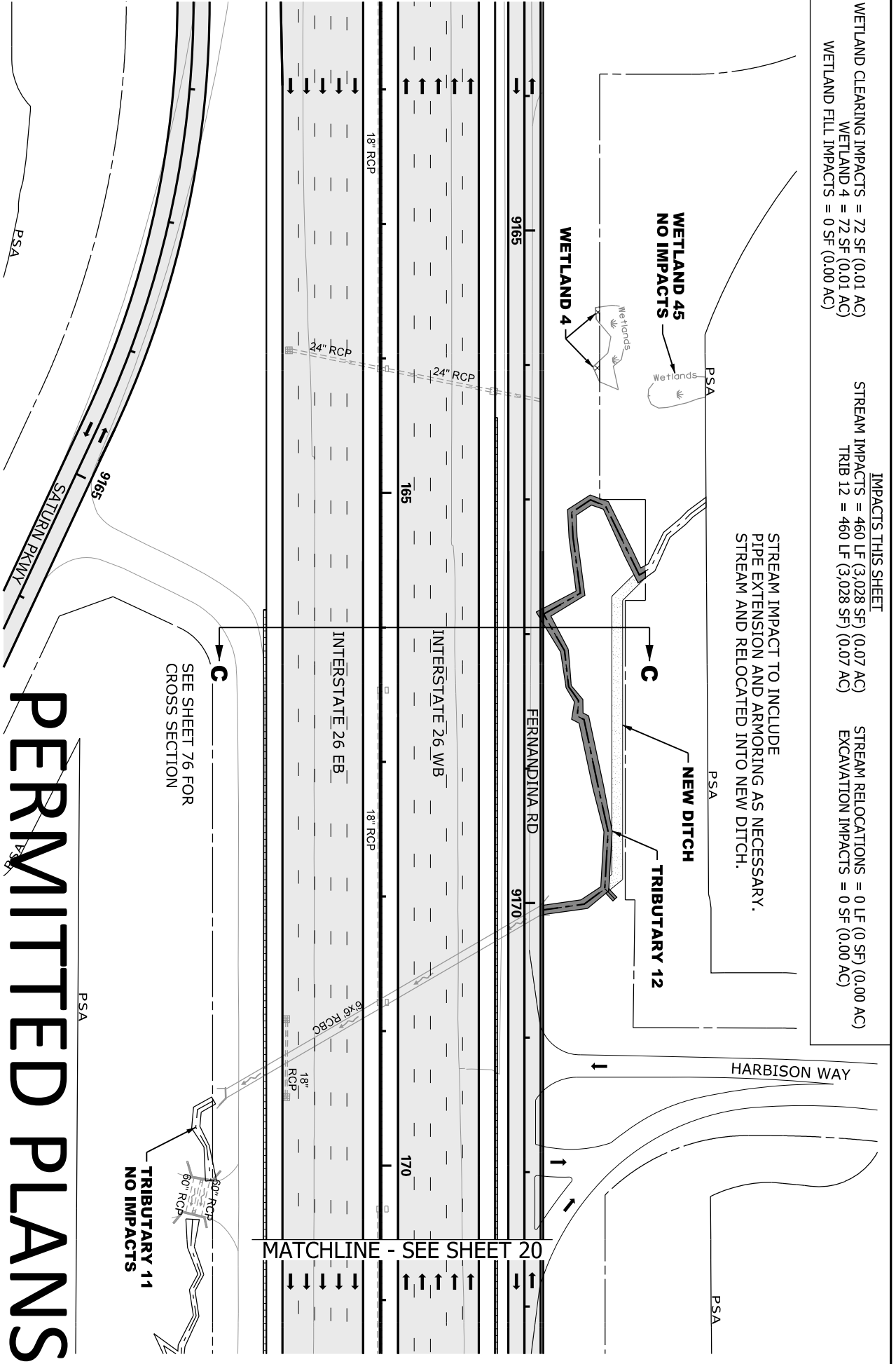
TRIBUTARY 10
 SHEET 18 OF 78

WETLAND CLEARING IMPACTS = 72 SF (0.01 AC)
 WETLAND 4 = 72 SF (0.01 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 460 LF (3,028 SF) (0.07 AC)
 TRIB 12 = 460 LF (3,028 SF) (0.07 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND ARMORING AS NECESSARY.
 STREAM AND RELOCATED INTO NEW DITCH.



LEGEND

	EXCAVATION IMPACT		IMPACTED STREAM		PERMIT BOUNDARY
	WETLAND		PROPOSED PAVEMENT		PROJECT STUDY AREA
	PROPOSED PAVEMENT		CLEARING IMPACT		PROP MEDIUM BARRIER WALL
	RELOCATED DITCH		EXISTING ROAD		EXISTING RAILROAD

PERMITTED PLANS

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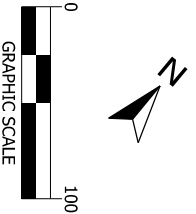
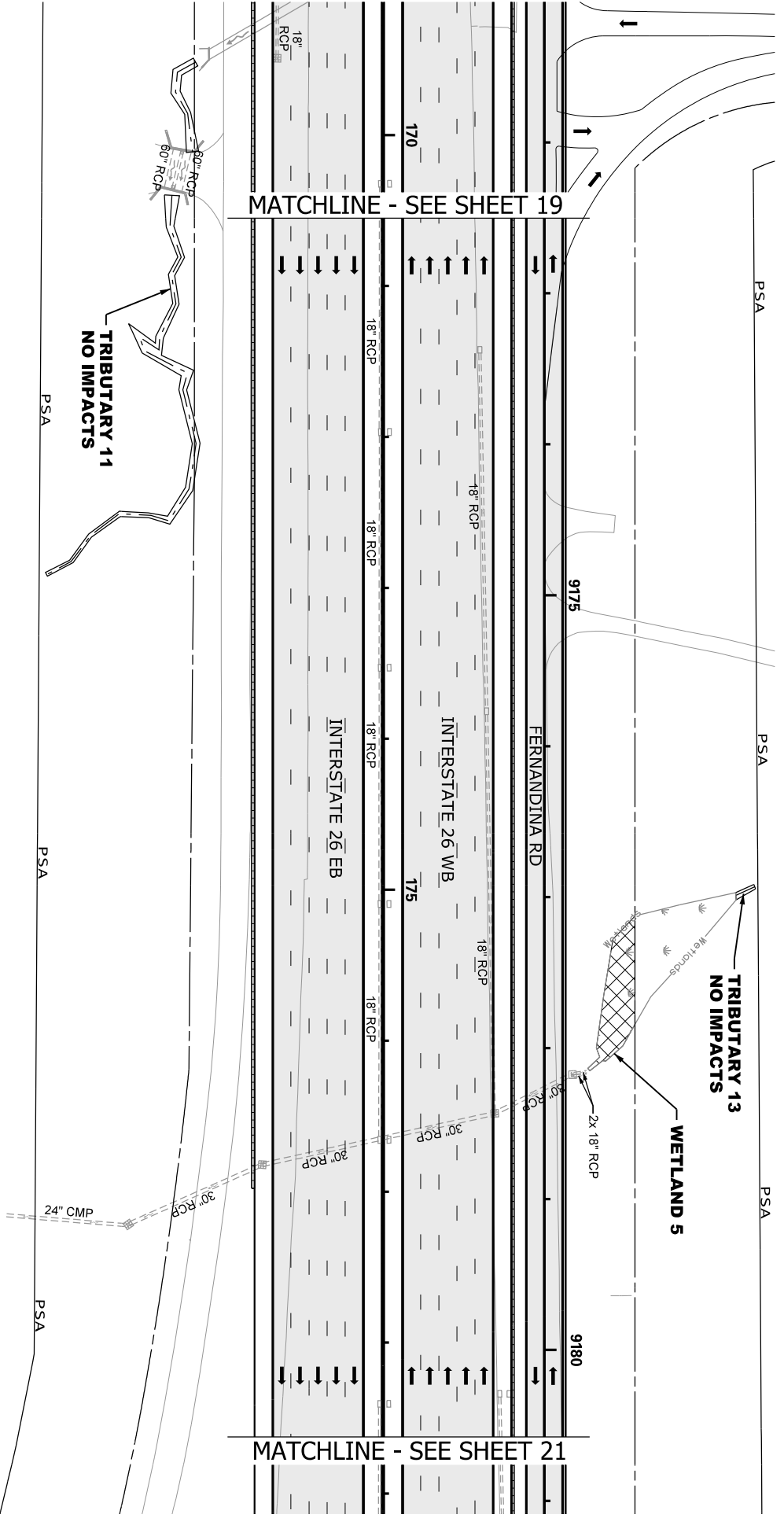


TRIBUTARY 12
 WETLAND 4
 SHEET 19 OF 78

WETLAND CLEARING IMPACTS = 1,616 SF (0.04 AC)
 WETLAND 5 = 1,616 SF (0.04 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



LEGEND

	EXCAVATION IMPACT		IMPACTED STREAM		PERMIT BOUNDARY
	WETLAND		PERMANENT FILL IMPACT		PROJECT STUDY AREA
	PROPOSED PAVEMENT		CLEARING IMPACT		PSA
	RELOCATED DITCH		PERMANENT FILL IMPACT		PROP MEDIAN BARRIER WALL
			EXISTING ROAD		EXISTING RAILROAD

PERMITTED PLANS

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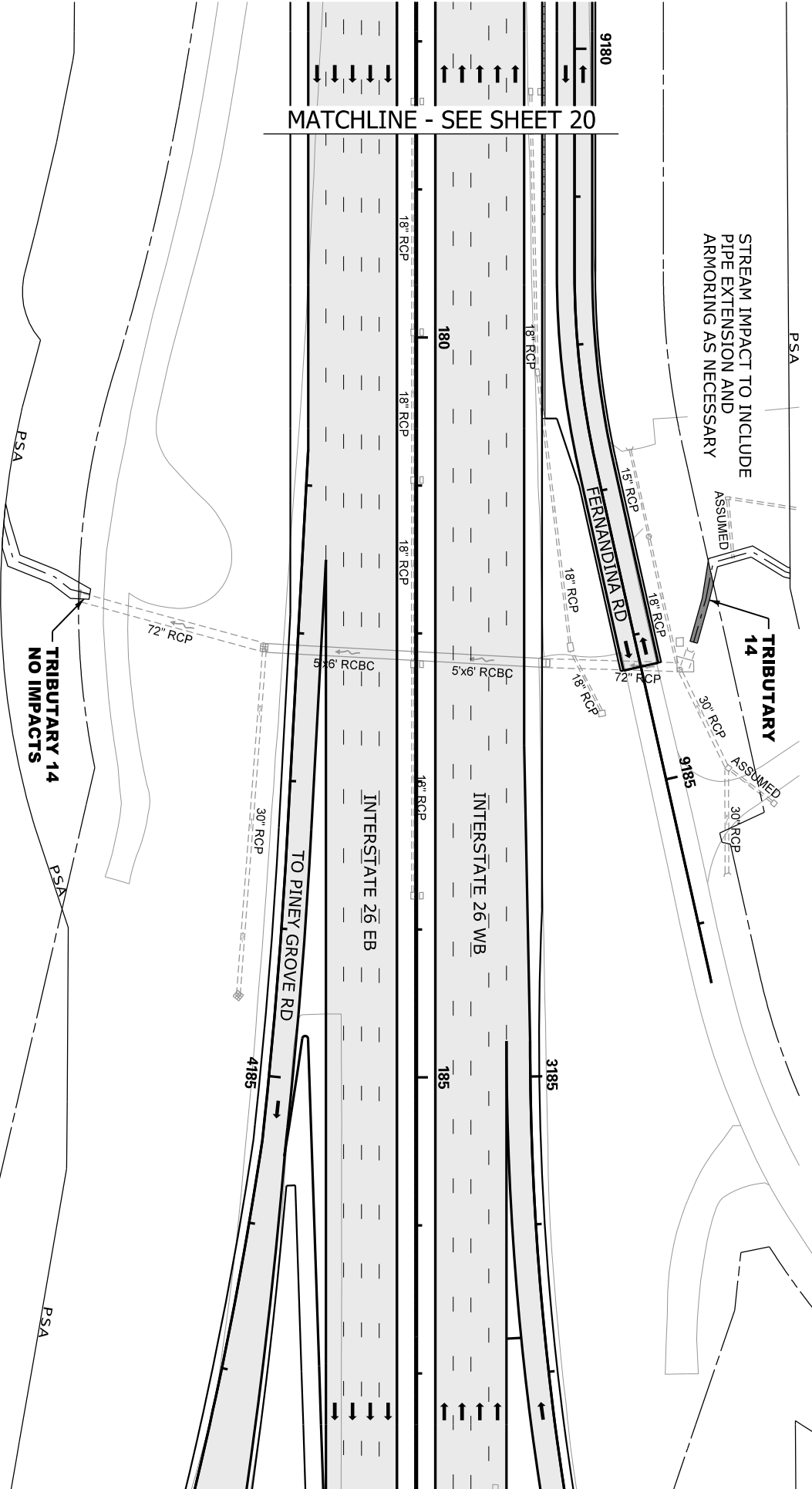
South Carolina Department of Transportation
 WETLAND 5
 SHEET 20 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 49 LF (256 SF) (0.01 AC)
 TRIB 14 = 49 LF (256 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

MATCHLINE - SEE SHEET 20



TRIBUTARY 14
 NO IMPACTS

PERMITTED PLANS

LEGEND

- | | | | | | |
|--|-------------------|--|-----------------------|--|--------------------------|
| | EXCAVATION IMPACT | | IMPACTED STREAM | | PERMIT BOUNDARY |
| | WETLAND | | PERMANENT FILL IMPACT | | PROJECT STUDY AREA |
| | PROPOSED PAVEMENT | | CLEARING IMPACT | | PROP MEDIUM BARRIER WALL |
| | RELOCATED DITCH | | EXISTING ROAD | | EXISTING RAILROAD |

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TRIBUTARY 14

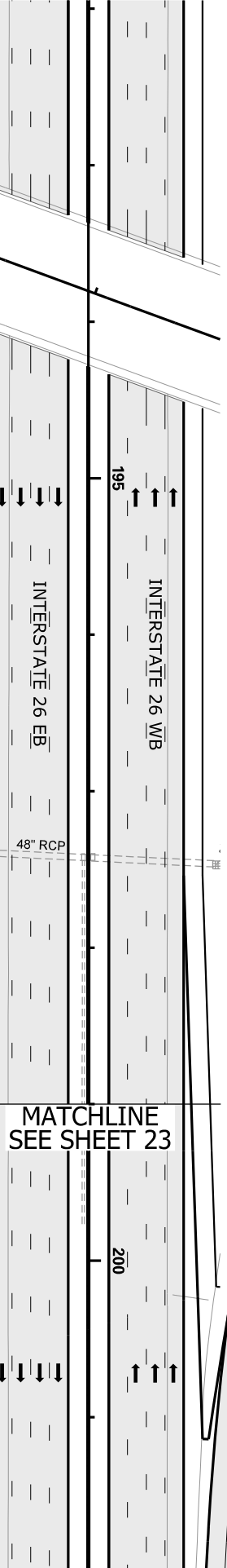
SHEET 21 OF 78



WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 93 LF (384 SF) (0.01 AC)
 TRIB 15 = 93 LF (384 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



MATCHLINE
 SEE SHEET 23

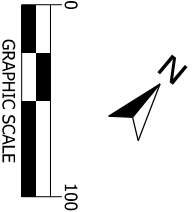
STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY

WETLAND 46
 NO IMPACTS

PERMITTED PLANS

LEGEND

- | | | | | | |
|--|-------------------|--|-----------------------|--|--------------------------|
| | EXCAVATION IMPACT | | IMPACTED STREAM | | PERMIT BOUNDARY |
| | WETLAND | | PERMANENT FILL IMPACT | | PROJECT STUDY AREA |
| | PROPOSED PAVEMENT | | CLEARING IMPACT | | PROP MEDIAN BARRIER WALL |
| | RELOCATED DITCH | | EXISTING ROAD | | EXISTING RAILROAD |



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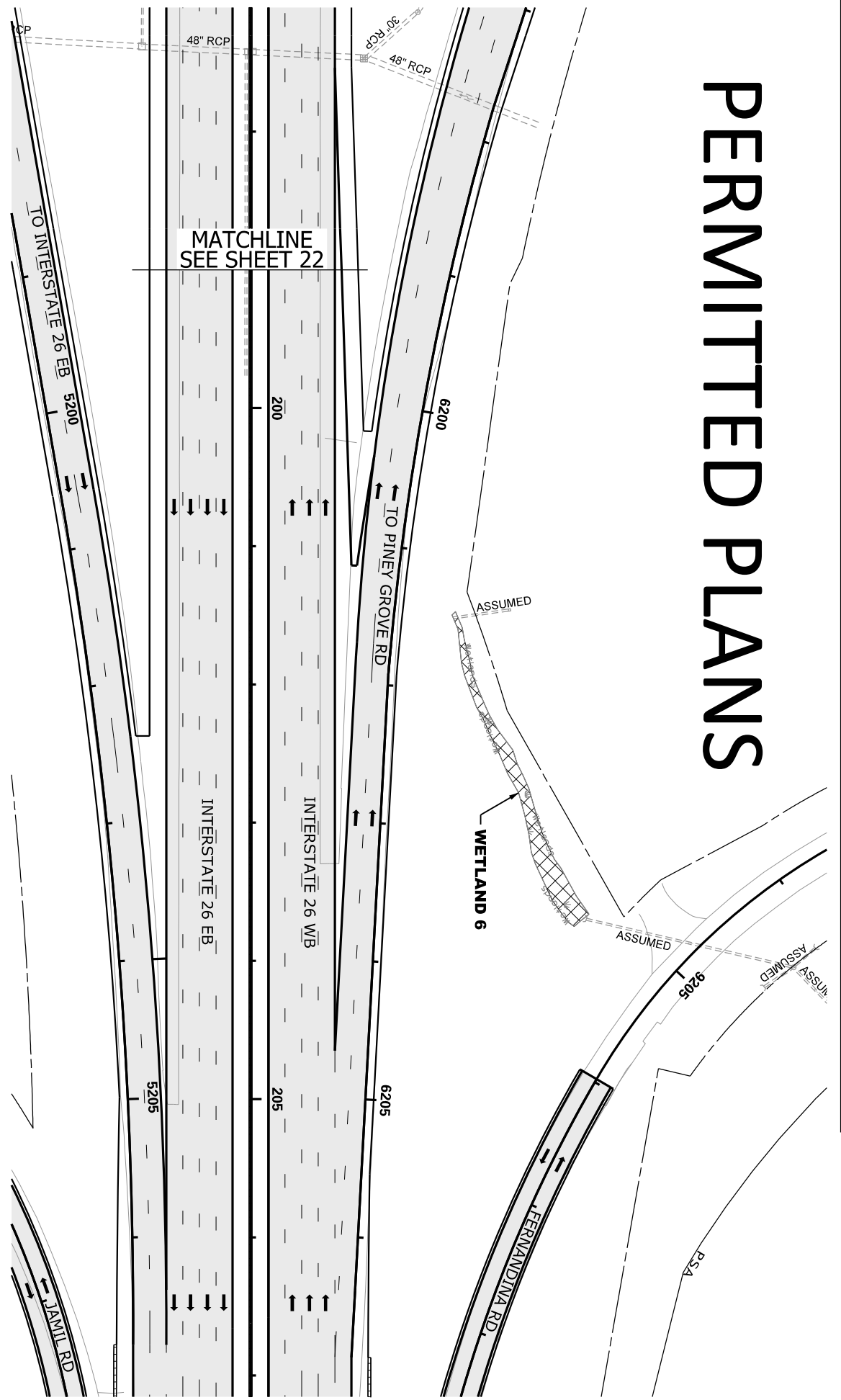
TRIBUTARY 15
 SHEET 22 OF 78

WETLAND CLEARING IMPACTS = 2,205 SF (0.05 AC)
 WETLAND 6 = 2,205 SF (0.05 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



MATCHLINE
 SEE SHEET 22

LEGEND

- | | | | | | |
|--|-------------------|--|-----------------------|--|--------------------------|
| | EXCAVATION IMPACT | | IMPACTED STREAM | | PERMIT BOUNDARY |
| | WETLAND | | PERMANENT FILL IMPACT | | PROJECT STUDY AREA |
| | PROPOSED PAVEMENT | | CLEARING IMPACT | | PROP MEDIUM BARRIER WALL |
| | RELOCATED DITCH | | EXISTING ROAD | | EXISTING RAILROAD |

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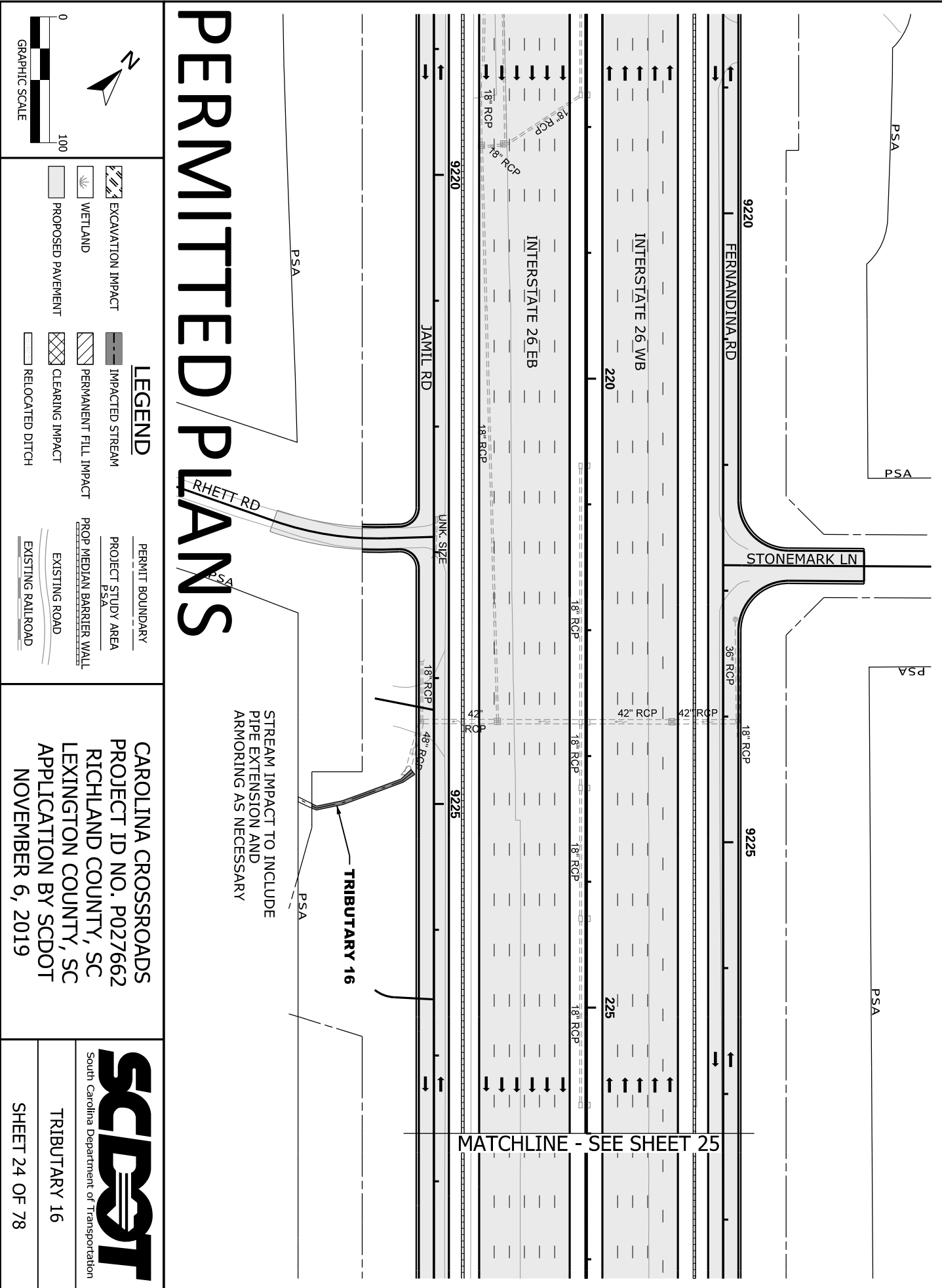
WETLAND 6
 SHEET 23 OF 78



WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 87 LF (272 SF) (0.01 AC)
 TRIB 16 = 87 LF (272 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



PERMITTED PLANS

LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- RELOCATED DITCH
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- RELOCATED DITCH
- PERMIT BOUNDARY
- PROJECT STUDY AREA
- PROP MEDIAN BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD

STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY

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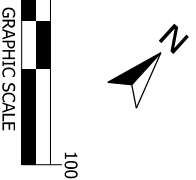
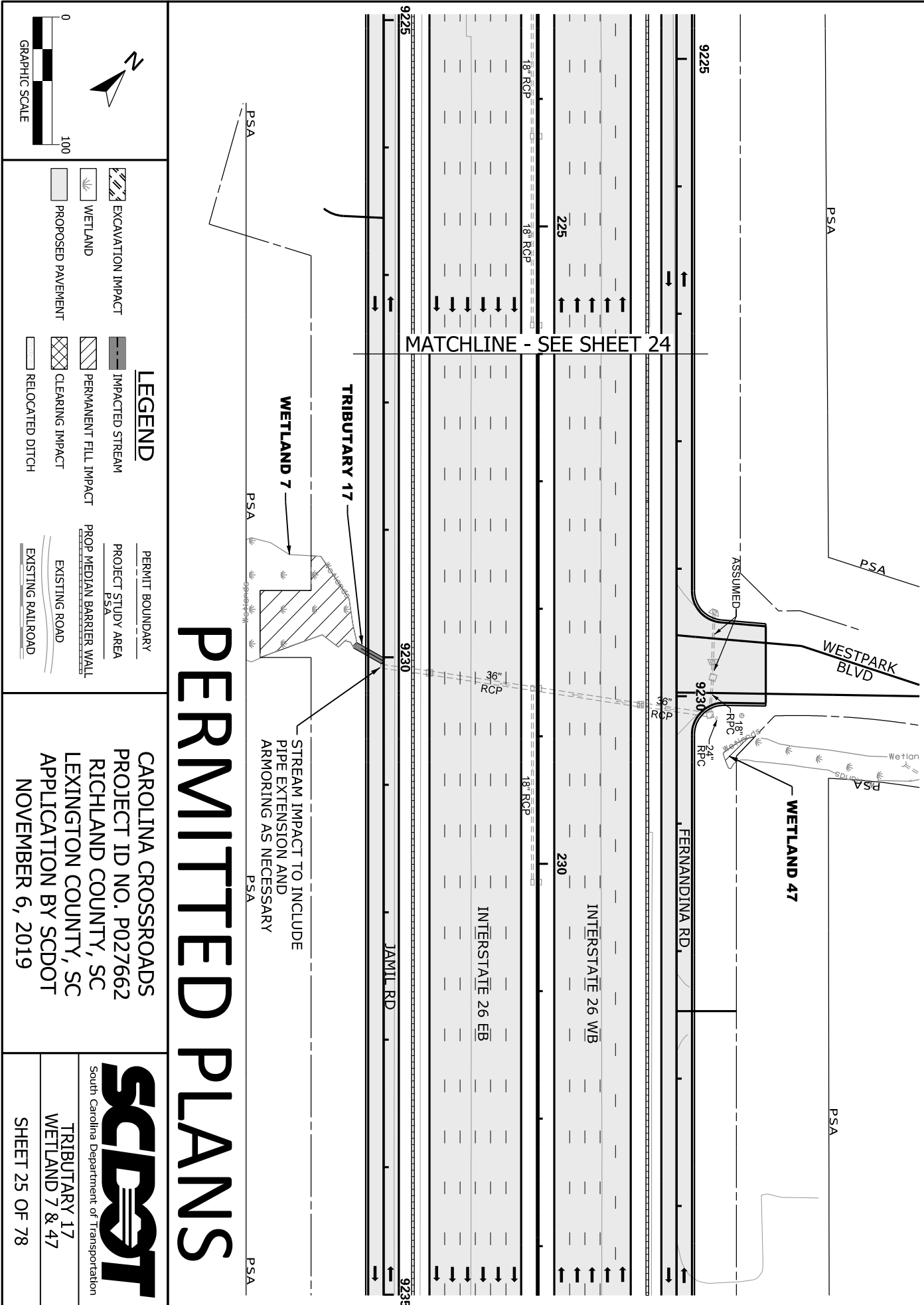
TRIBUTARY 16
 SHEET 24 OF 78

MATCHLINE - SEE SHEET 25

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 3,727 SF (0.09 AC)
 WETLAND 7 = 3,517 SF (0.08 AC)
 WETLAND 47 = 210 SF (0.01 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 26 LF (126 SF) (0.01 AC)
 TRIB 17 = 26 LF (126 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



LEGEND

	EXCAVATION IMPACT		IMPACTED STREAM		PERMIT BOUNDARY
	WETLAND		PERMANENT FILL IMPACT		PROJECT STUDY AREA
	PROPOSED PAVEMENT		CLEARING IMPACT		PROP MEDIAN BARRIER WALL
	RELOCATED DITCH		EXISTING ROAD		EXISTING RAILROAD

CAROLINA CROSSROADS
 PROJECT ID NO. P027662
 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
 APPLICATION BY SCDOT
 NOVEMBER 6, 2019

PERMITTED PLANS



South Carolina Department of Transportation
 TRIBUTARY 17
 WETLAND 7 & 47
 SHEET 25 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET

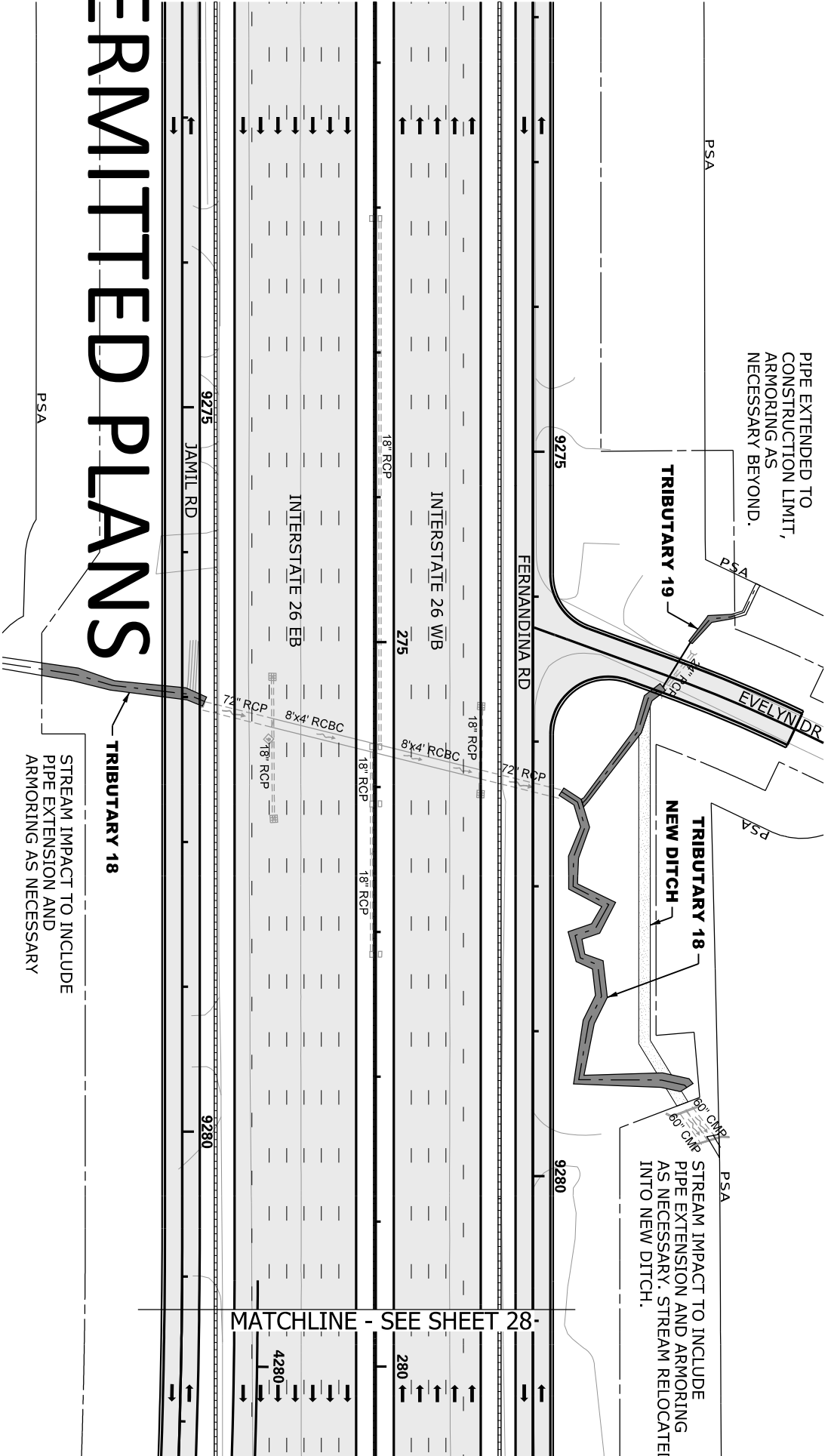
STREAM IMPACTS = 580 LF (3,930 SF) (0.09 AC)
 TRIB 18 = 322 LF (2,379 SF) (0.05 AC)
 TRIB 18 = 116 LF (910 SF) (0.02 AC)
 TRIB 19 = 39 LF (151 SF) (0.01 AC)
 TRIB 19 = 103 LF (490 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PIPE EXTENDED TO CONSTRUCTION LIMIT, ARMORING AS NECESSARY BEYOND.

STREAM IMPACT TO INCLUDE PIPE EXTENSION AND ARMORING AS NECESSARY. STREAM RELOCATED INTO NEW DITCH.

PERMITTED PLANS



MATCHLINE - SEE SHEET 28-

LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- CLEARING IMPACT
- RELOCATED DITCH
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- PROP MEDIUM BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD
- PERMIT BOUNDARY
- PROJECT STUDY AREA

STREAM IMPACT TO INCLUDE PIPE EXTENSION AND ARMORING AS NECESSARY

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TRIBUTARY 18 & 19

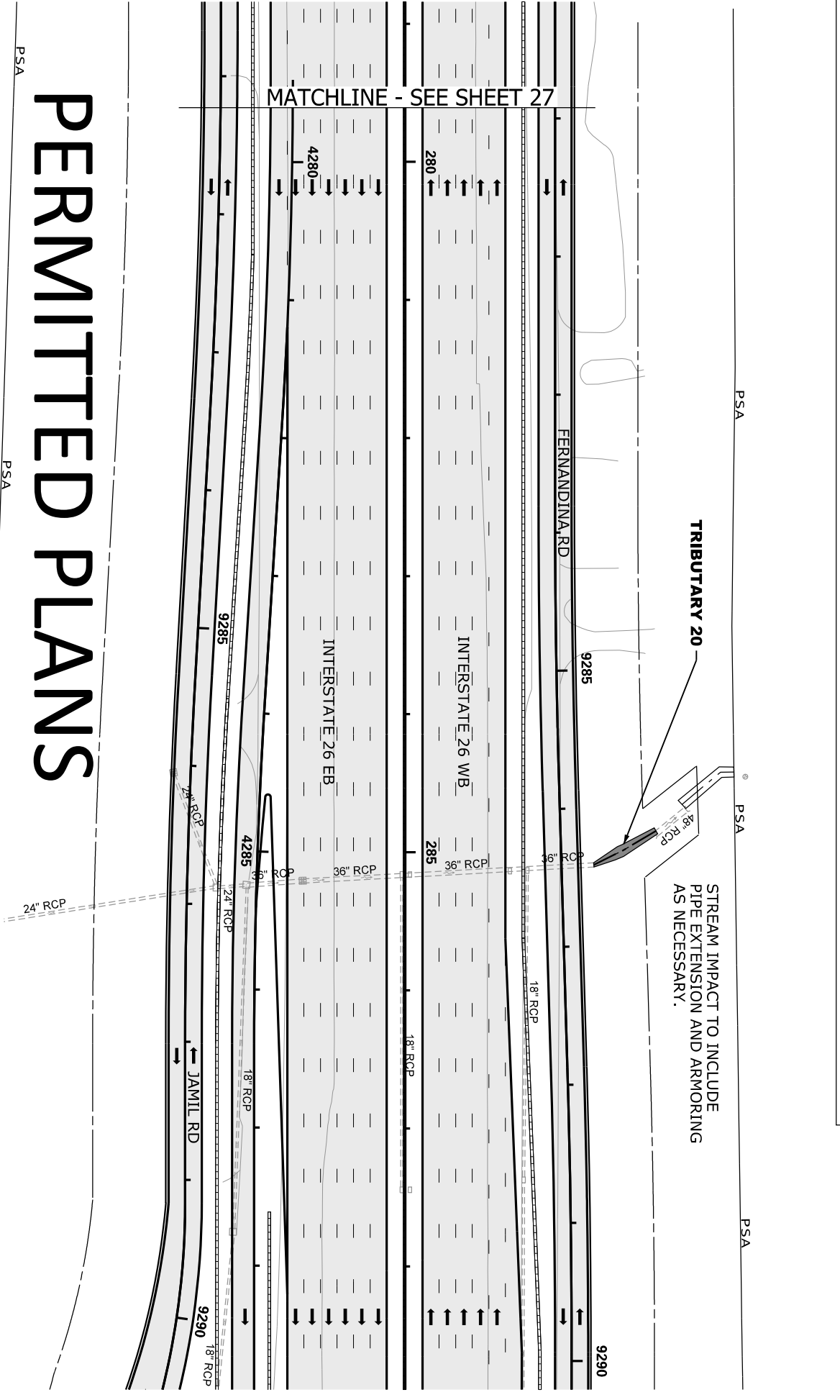
SHEET 27 OF 78



WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

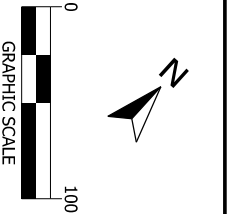
IMPACTS THIS SHEET
 STREAM IMPACTS = 55 LF (308 SF) (0.01 AC)
 TRIB 21 = 55 LF (308 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



MATCHLINE - SEE SHEET 27

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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TRIBUTARY 20

SHEET 28 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

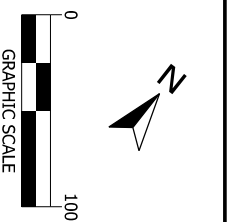
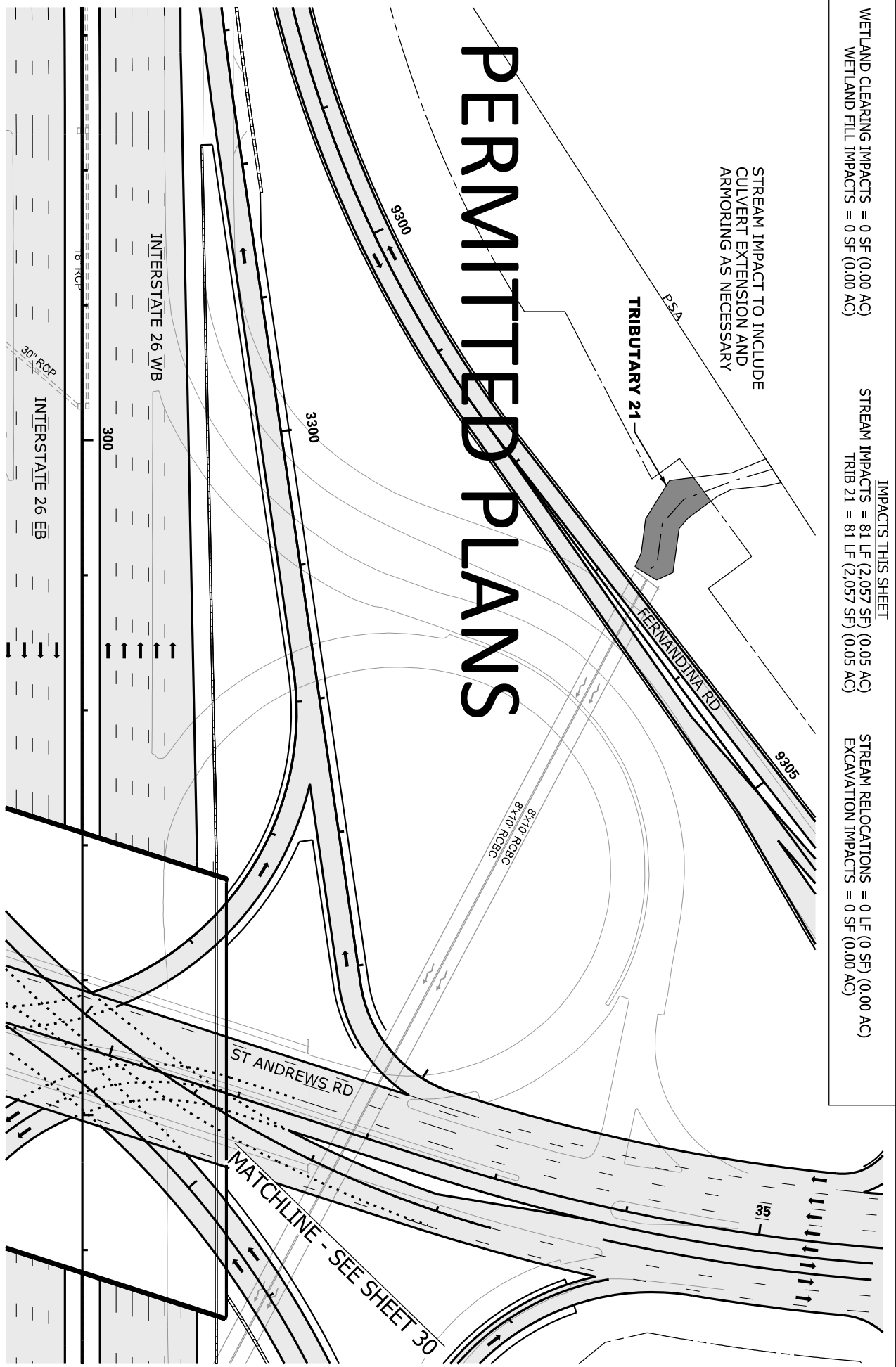
STREAM IMPACTS = 81 LF (2,057 SF) (0.05 AC)
 TRIB 21 = 81 LF (2,057 SF) (0.05 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET

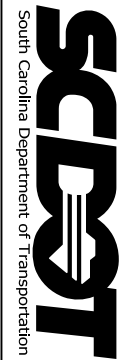
STREAM IMPACT TO INCLUDE
 CULVERT EXTENSION AND
 ARMORING AS NECESSARY

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

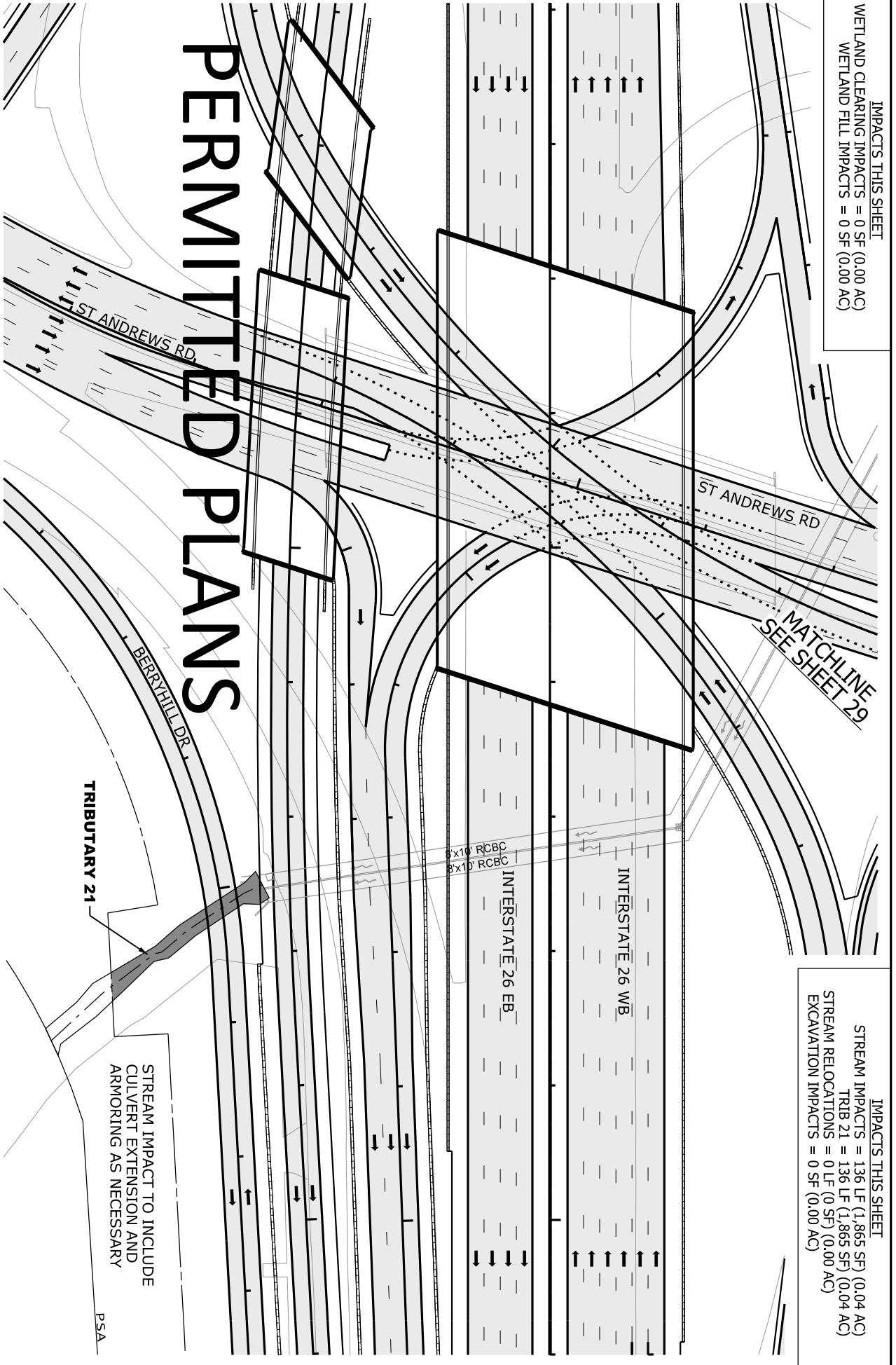
CAROLINA CROSSROADS
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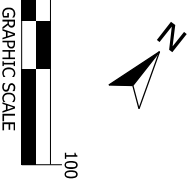
TRIBUTARY 21
 SHEET 29 OF 78

IMPACTS THIS SHEET
 WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 136 LF (1,865 SF) (0.04 AC)
 TRIB 21 = 136 LF (1,865 SF) (0.04 AC)
 STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



PERMITTED PLANS



- LEGEND**
- EXCAVATION IMPACT
 - WETLAND
 - PROPOSED PAVEMENT
 - IMPACTED STREAM
 - PERMANENT FILL IMPACT
 - CLEARING IMPACT
 - RELOCATED DITCH
 - PERMIT BOUNDARY
 - PROJECT STUDY AREA PSA
 - PROP MEDIAN BARRIER WALL
 - EXISTING ROAD
 - EXISTING RAILROAD

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TRIBUTARY 21
 SHEET 30 OF 78

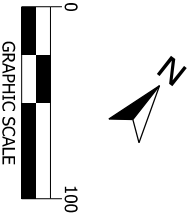
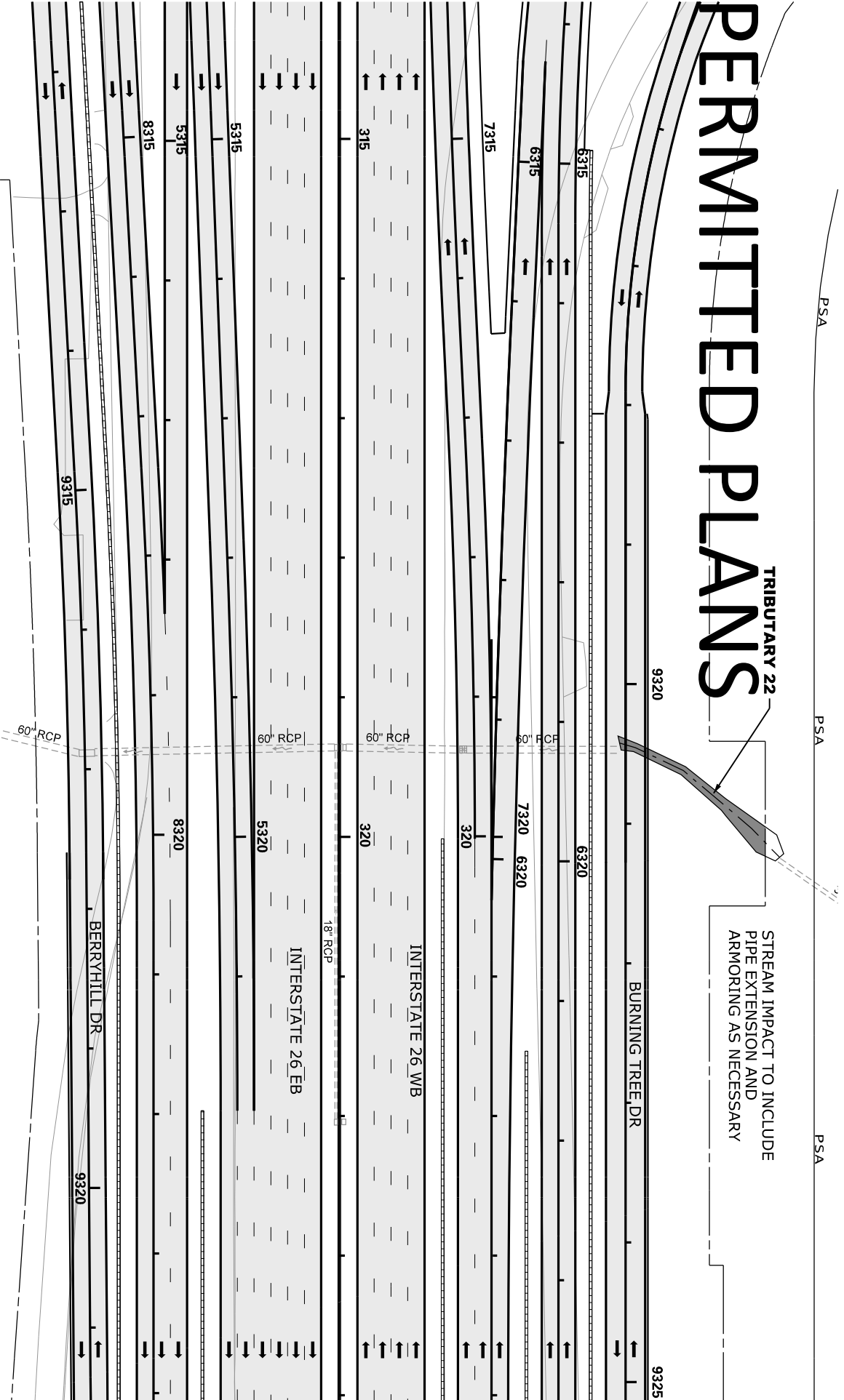
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 128 LF (1,154 SF) (0.03 AC)
 TRIB 22 = 128 LF (1,154 SF) (0.03 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)
 DET AREA 49

PERMITTED PLANS

TRIBUTARY 22



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIUM BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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TRIBUTARY 22

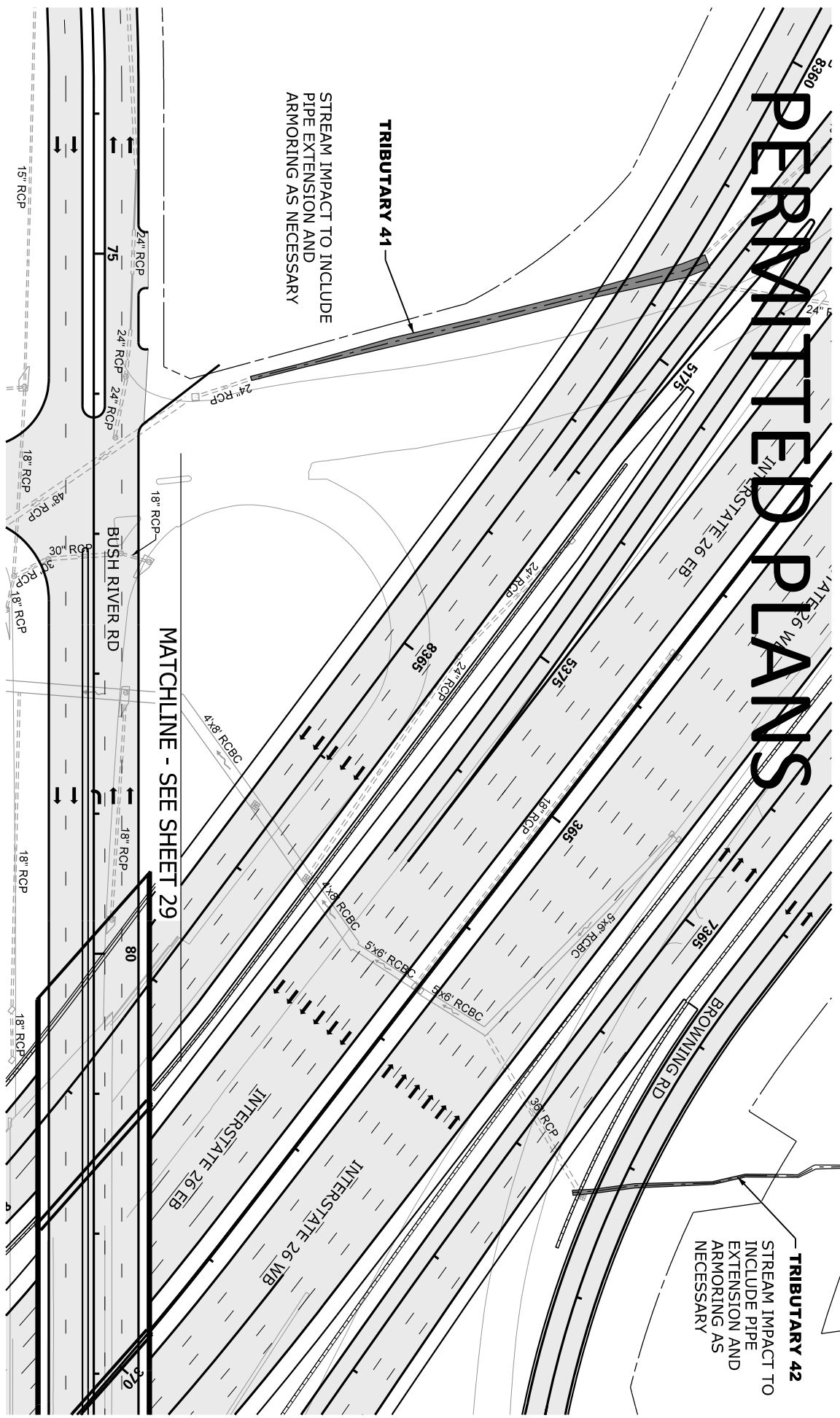
SHEET 31 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 483 LF (2,384 SF) (0.06 AC)
 TRIB 41 = 337 LF (2,022 SF) (0.05 AC)
 TRIB 42 = 146 LF (362 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY

STREAM IMPACT TO
 INCLUDE PIPE
 EXTENSION AND
 ARMORING AS
 NECESSARY

MATCHLINE - SEE SHEET 29



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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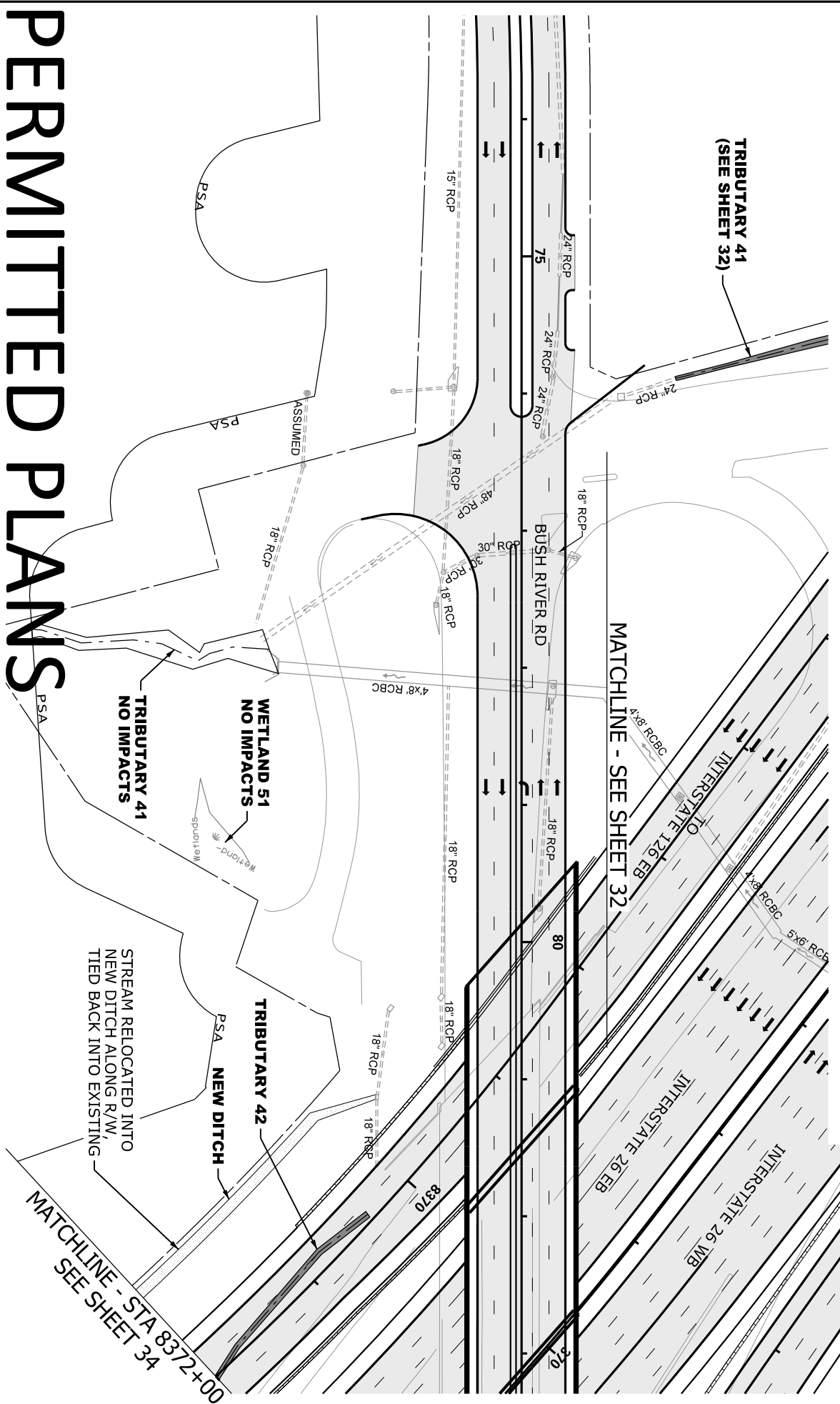


TRIBUTARY 41 & 42
 SHEET 32 OF 78

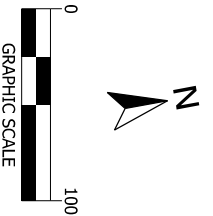
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 164 LF (742 SF) (0.02 AC)
 TRIB 42 = 164 LF (742 SF) (0.02 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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TRIBUTARY 42
 SHEET 33 OF 78

WETLAND CLEARING IMPACTS = 6,814 SF (0.16 AC)
 WETLAND 21 = 6,814 SF (0.16 AC)
 WETLAND FILL IMPACTS = 1,862 SF (0.05 AC)
 WETLAND 21 = 1,862 SF (0.05 AC)

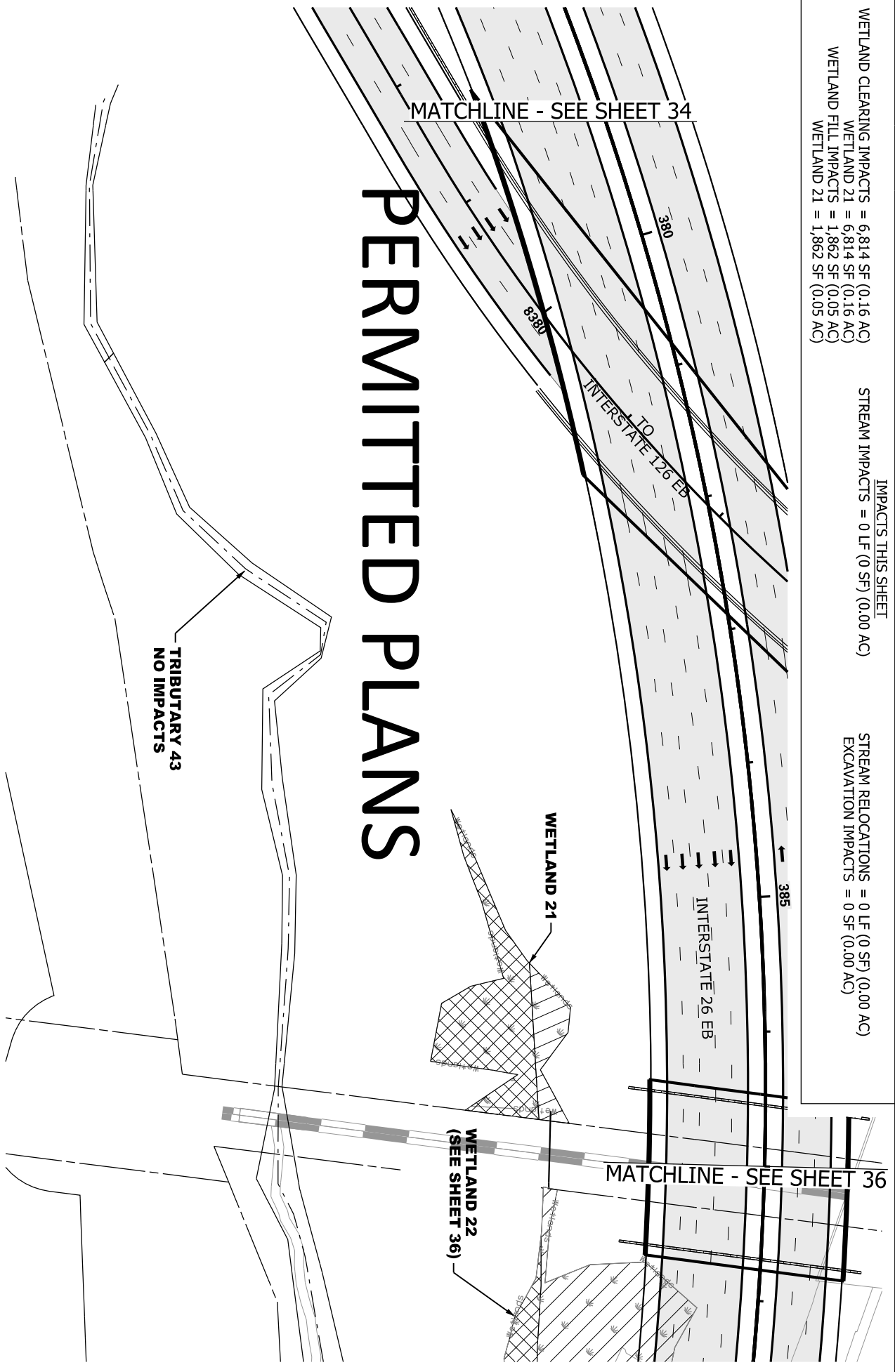
IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

MATCHLINE - SEE SHEET 34

MATCHLINE - SEE SHEET 36

PERMITTED PLANS



TRIBUTARY 43
 NO IMPACTS

WETLAND 21

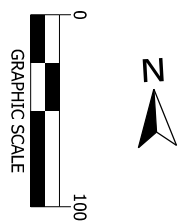
WETLAND 22
 (SEE SHEET 36)

INTERSTATE 26 EB

TO
 INTERSTATE 126 EB

LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- RELOCATED DITCH
- PERMIT BOUNDARY
- PROJECT STUDY AREA
- PROP MEDIAN BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD



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WETLAND 21

SHEET 35 OF 78

WETLAND CLEARING IMPACTS = 4,333 SF (0.10 AC)
 WETLAND 22 = 4,333 SF (0.10 AC)
 WETLAND FILL IMPACTS = 20,881 SF (0.48 AC)
 WETLAND 22 = 20,881 SF (0.48 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

LEGEND

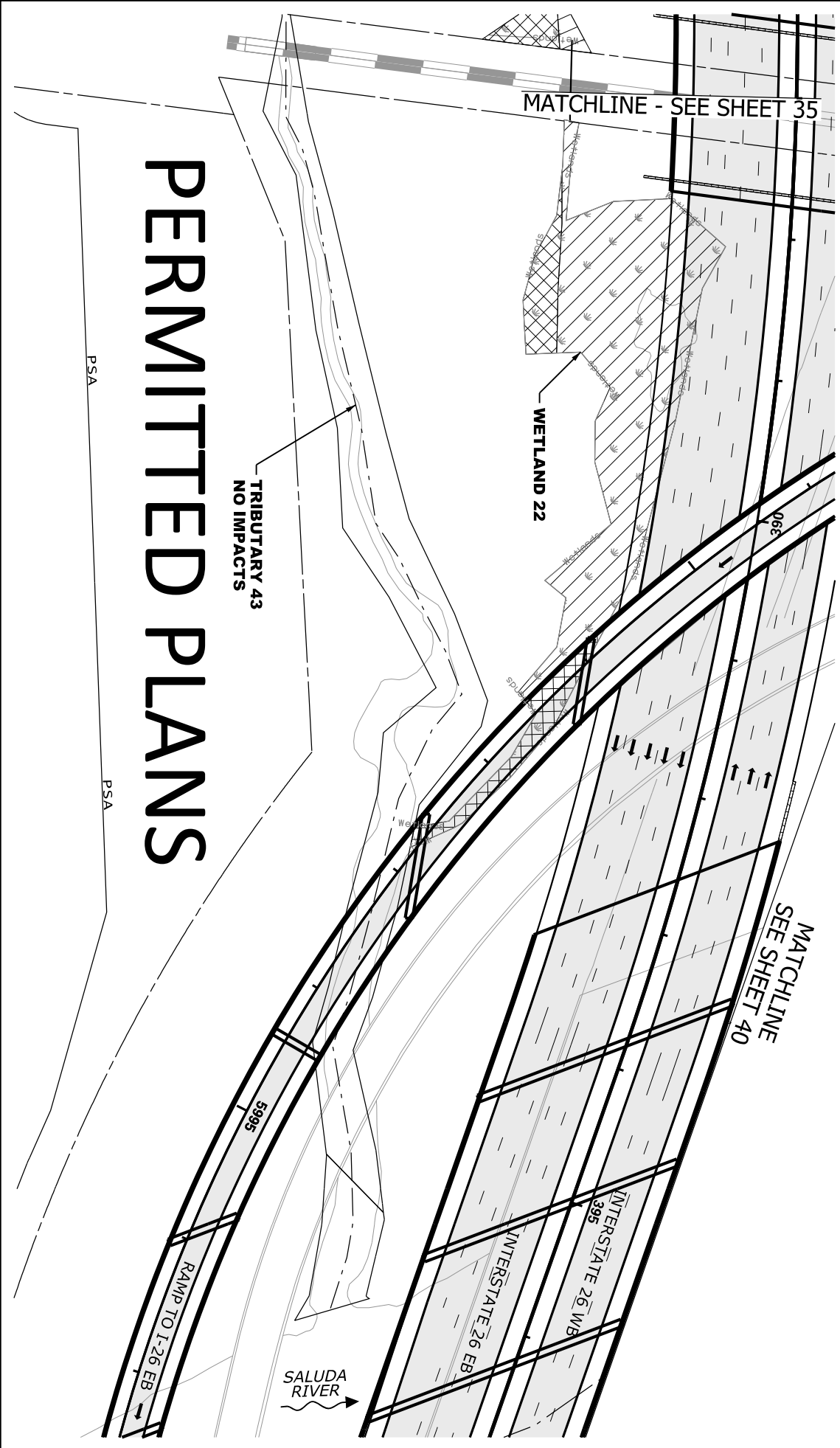
	EXCAVATION IMPACT		IMPACTED STREAM		PERMIT BOUNDARY
	WETLAND		PERMANENT FILL IMPACT		PROJECT STUDY AREA PSA
	PROPOSED PAVEMENT		CLEARING IMPACT		PROP MEDIAN BARRIER WALL
	RELOCATED DITCH		EXISTING ROAD		EXISTING RAILROAD

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 South Carolina Department of Transportation

WETLAND 22

SHEET 36 OF 78



PERMITTED PLANS

IMPACTS THIS SHEET

WETLAND CLEARING IMPACTS = 1,034 SF (0.03 AC)
 WETLAND 34 = 1,034 SF (0.03 AC)
 WETLAND FILL IMPACTS = 1,021 SF (0.03 AC)
 WETLAND 33 = 923 SF (0.02 AC)
 WETLAND 34 = 98 LF (0.01 AC)

STREAM IMPACTS = 827 LF (3,863 SF) (0.10 AC)
 TRIB 50 = 80 LF (411 SF) (0.01 AC)
 TRIB 50 = 712 LF (3,358 SF) (0.08 AC)
 TRIB 52 = 35 LF (94 SF) (0.01 AC)

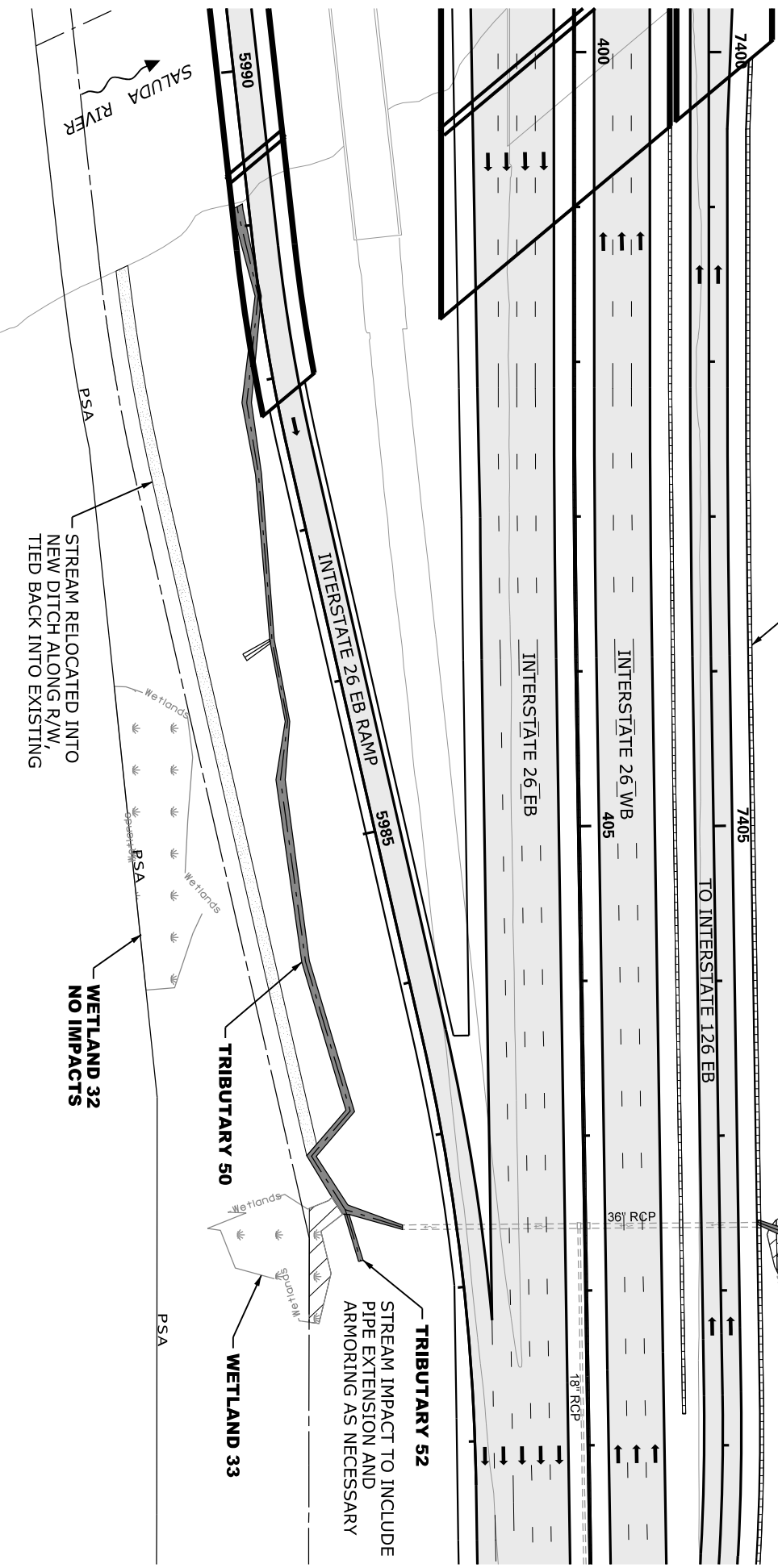
STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS

RETAINING WALL

TRIBUTARY 50
 STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY

WETLAND 34



STREAM RELOCATED INTO
 NEW DITCH ALONG R/W,
 TIED BACK INTO EXISTING

TRIBUTARY 52
 STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY

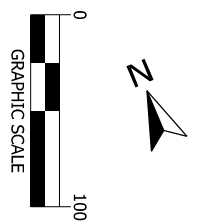
TRIBUTARY 50

WETLAND 33

WETLAND 32
 NO IMPACTS

LEGEND

- | | | | | | |
|--|-------------------|--|-----------------------|--|--------------------------|
| | EXCAVATION IMPACT | | IMPACTED STREAM | | PERMIT BOUNDARY |
| | WETLAND | | PERMANENT FILL IMPACT | | PROJECT STUDY AREA |
| | PROPOSED PAVEMENT | | CLEARING IMPACT | | PROP MEDIAN BARRIER WALL |
| | RELOCATED DITCH | | EXISTING ROAD | | EXISTING RAILROAD |



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TRIBUTARY 50
 WETLAND 33, 34
 SHEET 37 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PSA

PSA

PSA

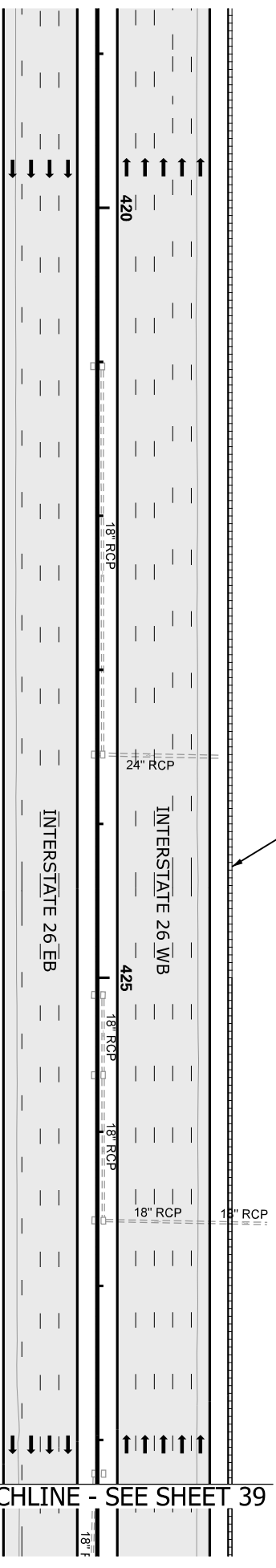
PSA

PERMITTED PLANS

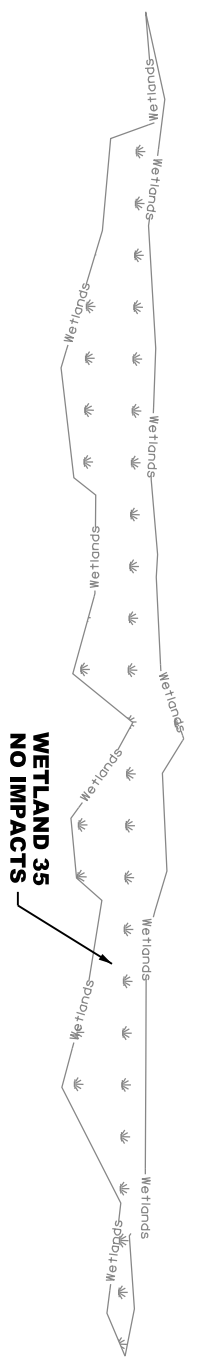
RETAINING WALL

TRIBUTARY 53
 NO IMPACTS

TRIBUTARY 57
 NO IMPACTS

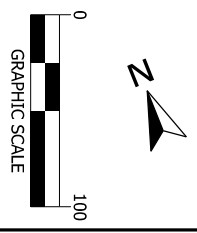


MATCHLINE - SEE SHEET 39



LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- RELOCATED DITCH
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- RELOCATED DITCH
- PERMIT BOUNDARY
- PROJECT STUDY AREA PSA
- PROP MEDIUM BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD



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South Carolina Department of Transportation
 TRIBUTARY 53 & 57
 WETLAND 35

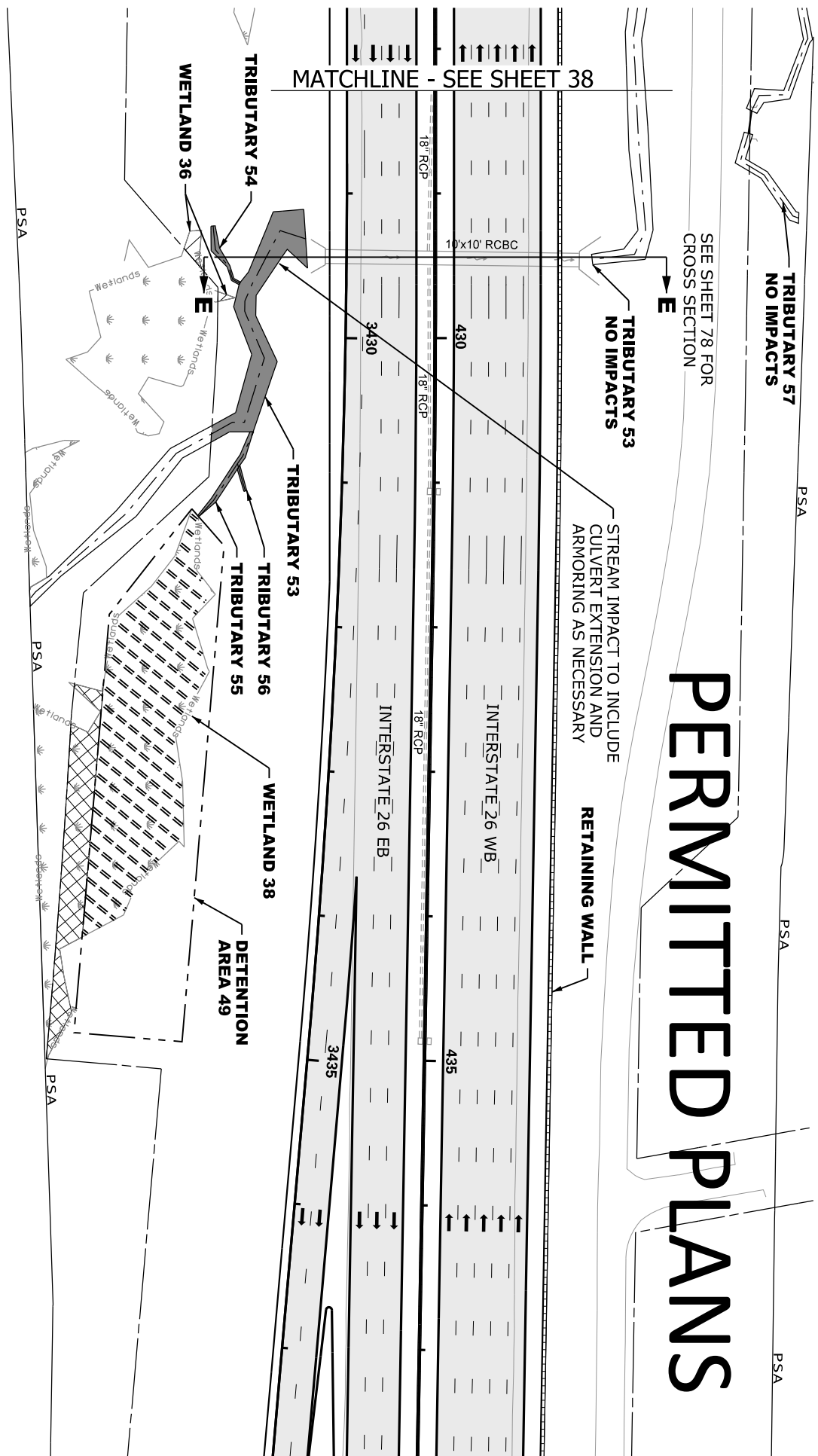
SHEET 38 OF 78

WETLAND CLEARING IMPACTS = 3,603 SF (0.08 AC)
 WETLAND 38 = 3,603 SF (0.08 AC)
 WETLAND FILL IMPACTS = 229 SF (0.01 AC)
 WETLAND 36 = 229 LF (0.01 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 333 LF (3,460 SF) (0.09 AC)
 TRIB 53 = 187 LF (3,038 SF) (0.07 AC)
 TRIB 54 = 55 LF (162 SF) (0.01 AC)
 TRIB 55 = 70 LF (240 SF) (0.01 AC)
 TRIB 56 = 20 LF (38 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 13,700 SF (0.32 AC)
 DET AREA 49 = 13,700 SF (0.32 AC)

PERMITTED PLANS

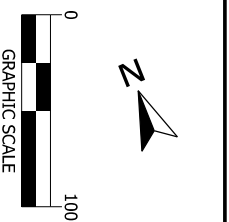


MATCHLINE - SEE SHEET 38

SEE SHEET 78 FOR CROSS SECTION

STREAM IMPACT TO INCLUDE CULVERT EXTENSION AND ARMORING AS NECESSARY

RETAINING WALL



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	IMPACTED STREAM
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

CAROLINA CROSSROADS
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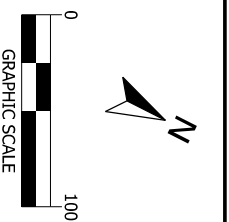
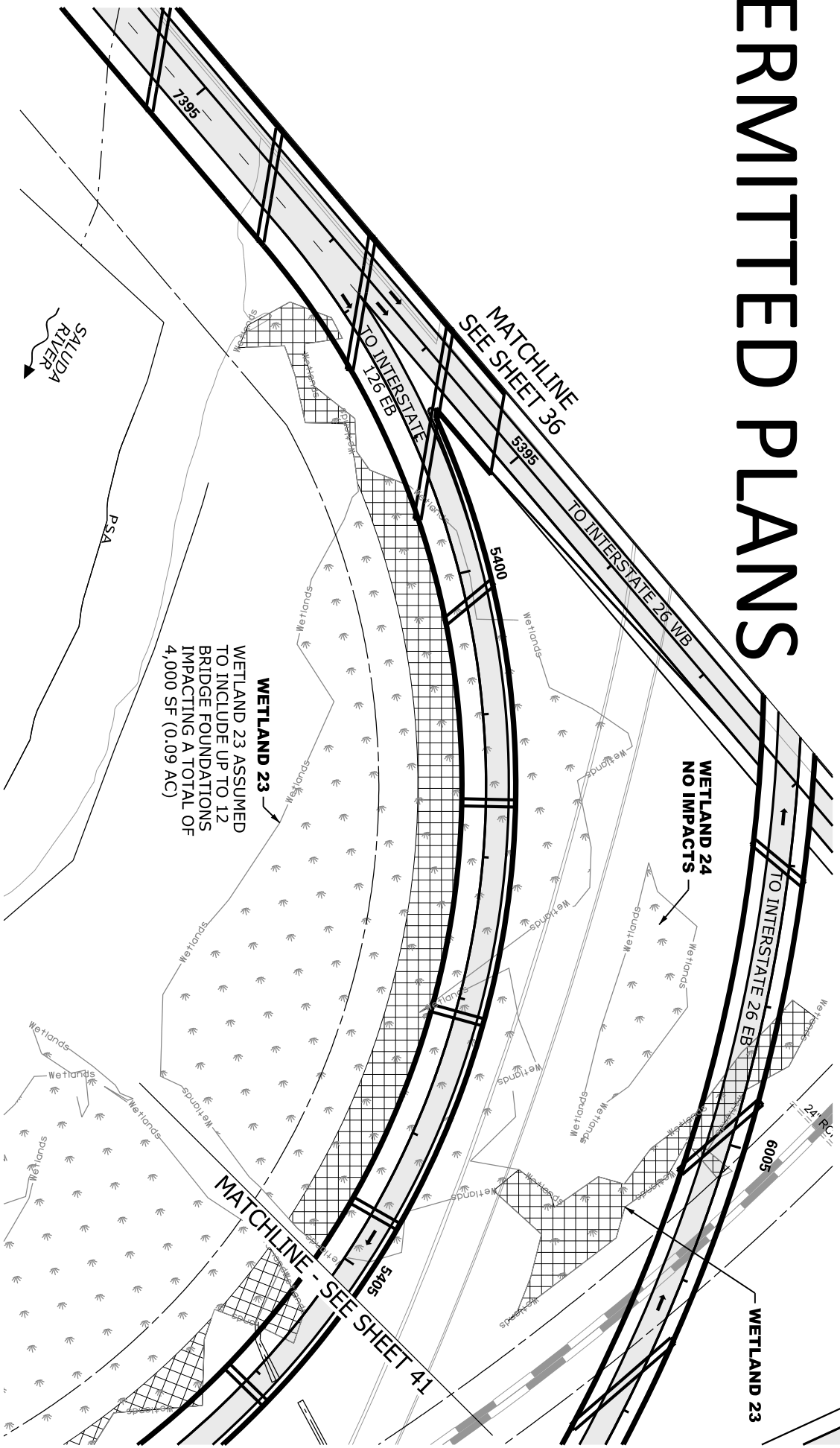
TRIBUTARY 53-56
 WETLAND 36, 38
 SHEET 39 OF 78

PERMITTED PLANS

WETLAND CLEARING IMPACTS = 27,363 SF (0.63 AC)
 WETLAND 23 = 27,363 SF (0.63 AC)
 WETLAND 24 = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 4,000 SF (0.09 AC)
 WETLAND 23 = 4,000 SF (0.09 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



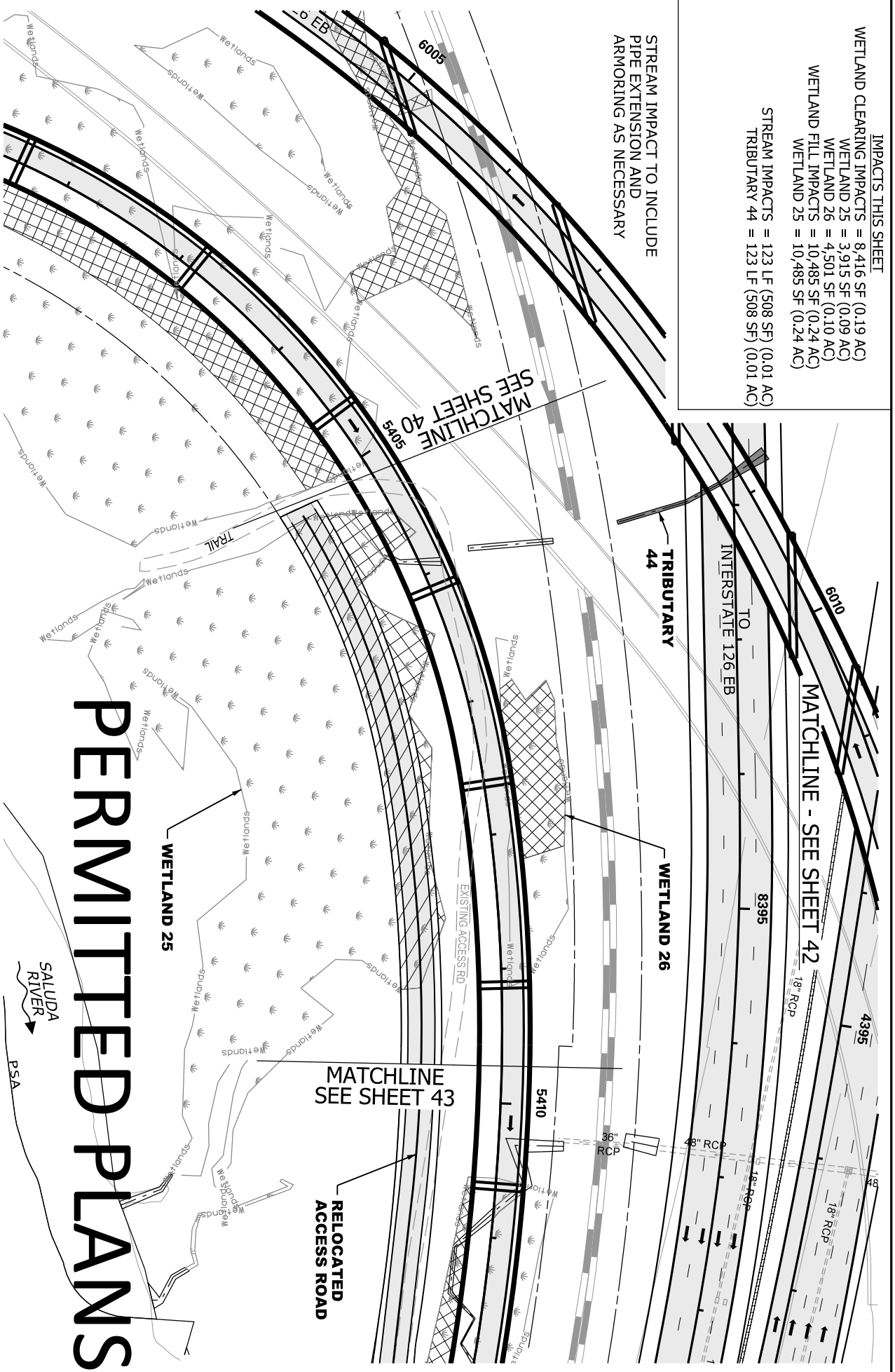
LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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WETLAND 23 & 24
 SHEET 40 OF 78

IMPACTS THIS SHEET
 WETLAND CLEARING IMPACTS = 8,416 SF (0.19 AC)
 WETLAND 25 = 3,915 SF (0.09 AC)
 WETLAND 26 = 4,501 SF (0.10 AC)
 WETLAND FILL IMPACTS = 10,485 SF (0.24 AC)
 WETLAND 25 = 10,485 SF (0.24 AC)
 STREAM IMPACTS = 123 LF (508 SF) (0.01 AC)
 TRIBUTARY 44 = 123 LF (508 SF) (0.01 AC)

STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY

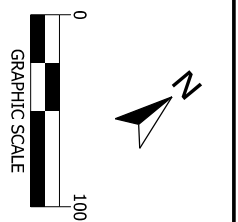


PERMITTED PLANS

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 REVISED JULY 15, 2020



WETLAND 25 & 26
 SHEET 41 OF 78



LEGEND

	EXCAVATION IMPACT		IMPACTED STREAM		PERMIT BOUNDARY
	WETLAND		PERMANENT FILL IMPACT		PROJECT STUDY AREA
	PROPOSED PAVEMENT		CLEARING IMPACT		PROP MEDIAN BARRIER WALL
	RELOCATED DITCH		EXISTING ROAD		EXISTING RAILROAD

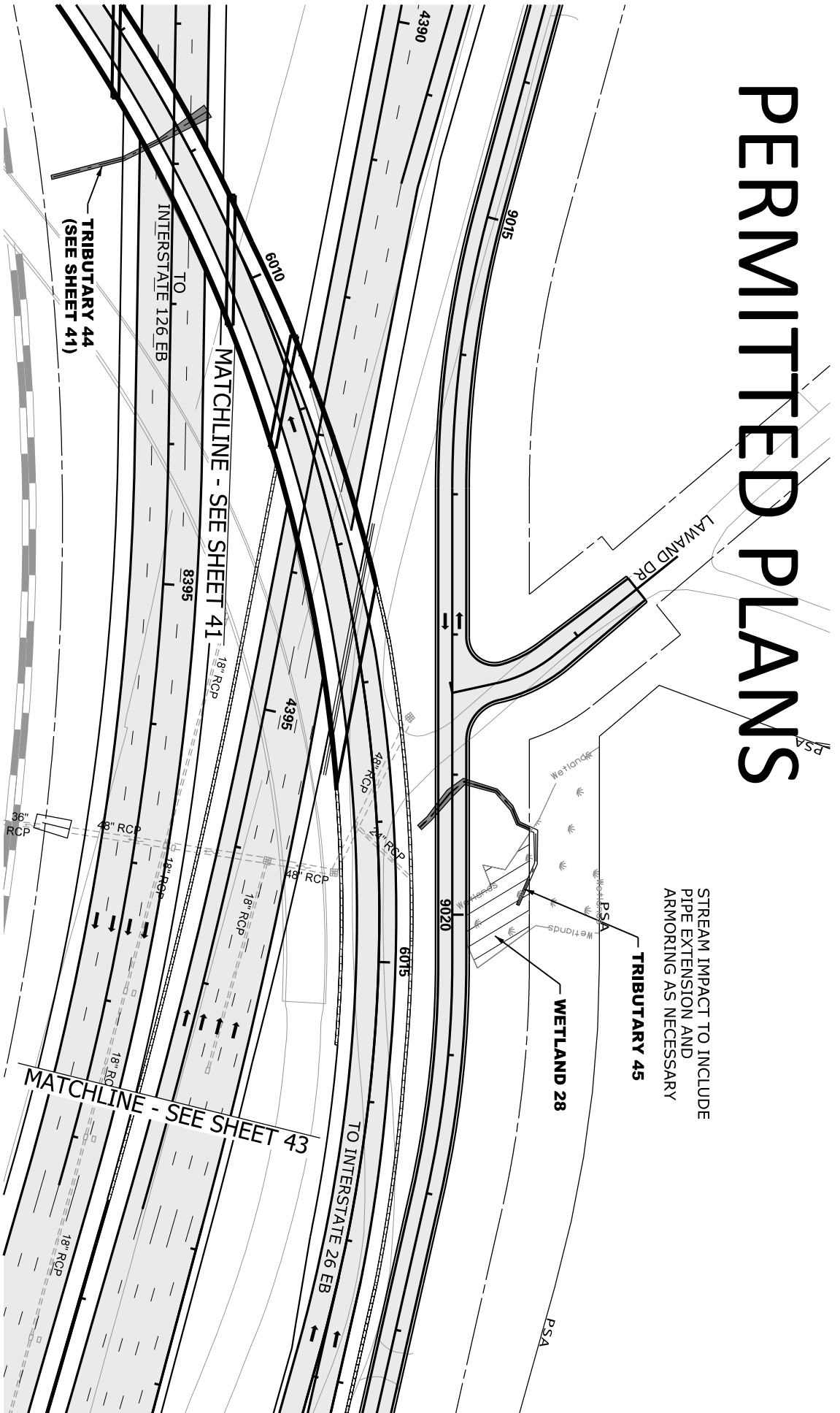
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 2,502 SF (0.06 AC)
 WETLAND 28 = 2,502 SF (0.06 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 107 LF (418 SF) (0.01 AC)
 TRIB 45 = 107 LF (418 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS

STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY



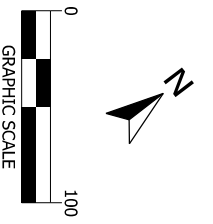
LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

CAROLINA CROSSROADS
 PROJECT ID NO. P027662
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 LEXINGTON COUNTY, SC
 APPLICATION BY SCDOT
 NOVEMBER 6, 2019

South Carolina Department of Transportation

TRIBUTARY 45
 WETLAND 28

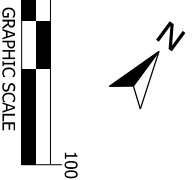
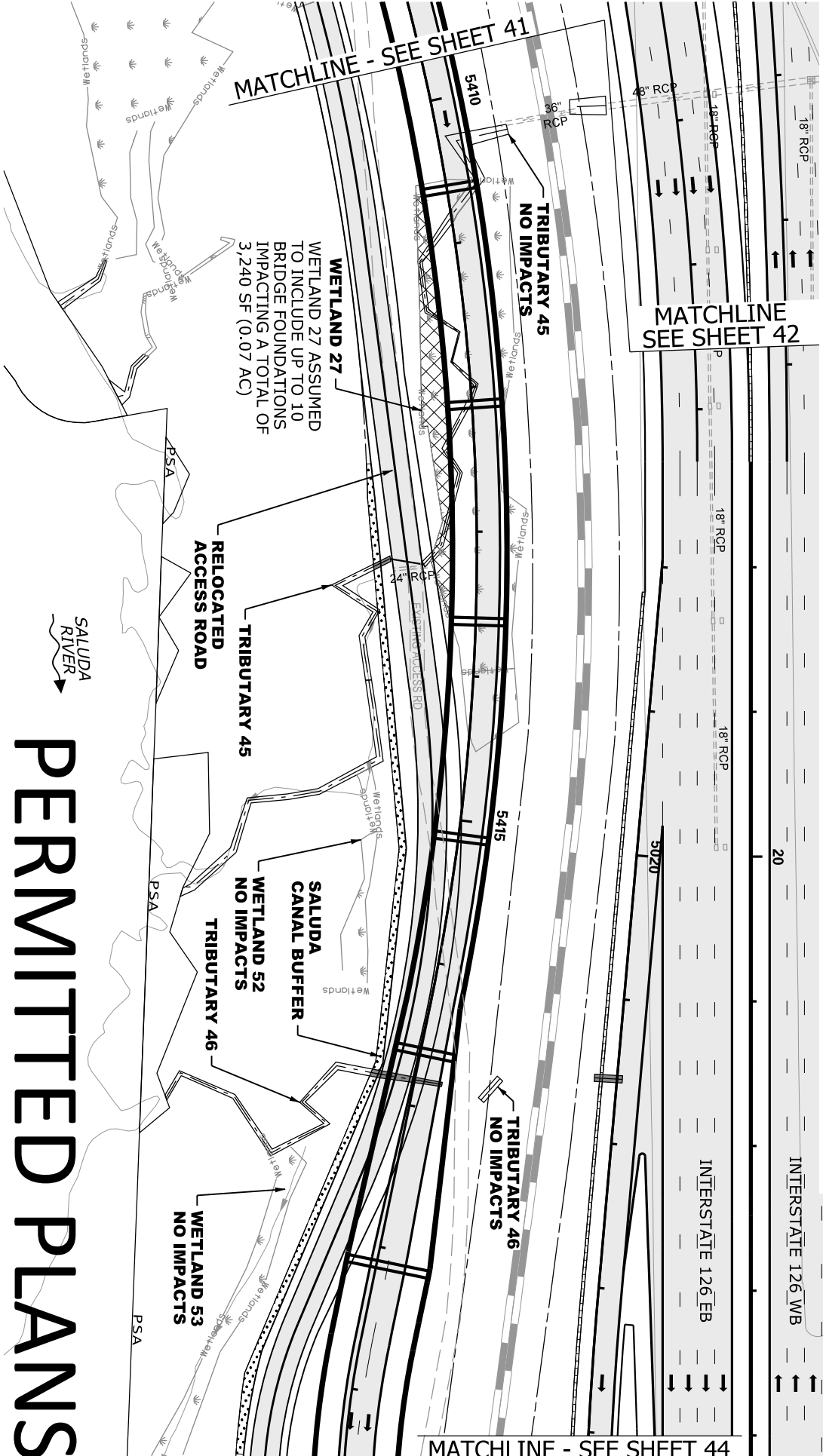
SHEET 42 OF 78



WETLAND CLEARING IMPACTS = 3,214 SF (0.07 AC)
 WETLAND 27 = 3,214 SF (0.07 AC)
 WETLAND FILL IMPACTS = 3,240 SF (0.07 AC)
 WETLAND 27 = 3,240 SF (0.07 AC)
 WETLAND 52 = 0 SF (0.00 AC)
 WETLAND 53 = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 53 LF (206 SF) (0.01 AC)
 TRIB 45 = 8 LF (28 SF) (0.01 AC)
 TRIB 46 = 45 LF (178 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



LEGEND

	EXCAVATION IMPACT		IMPACTED STREAM
	WETLAND		PERMANENT FILL IMPACT
	PROPOSED PAVEMENT		CLEARING IMPACT
	SALUDA CANAL BUFFER		RELOCATED DITCH
	PERMIT BOUNDARY		PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL		EXISTING ROAD
	EXISTING RAILROAD		

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PERMITTED PLANS



TRIBUTARY 45
 WETLAND 27, 52 & 53
 SHEET 43 OF 78

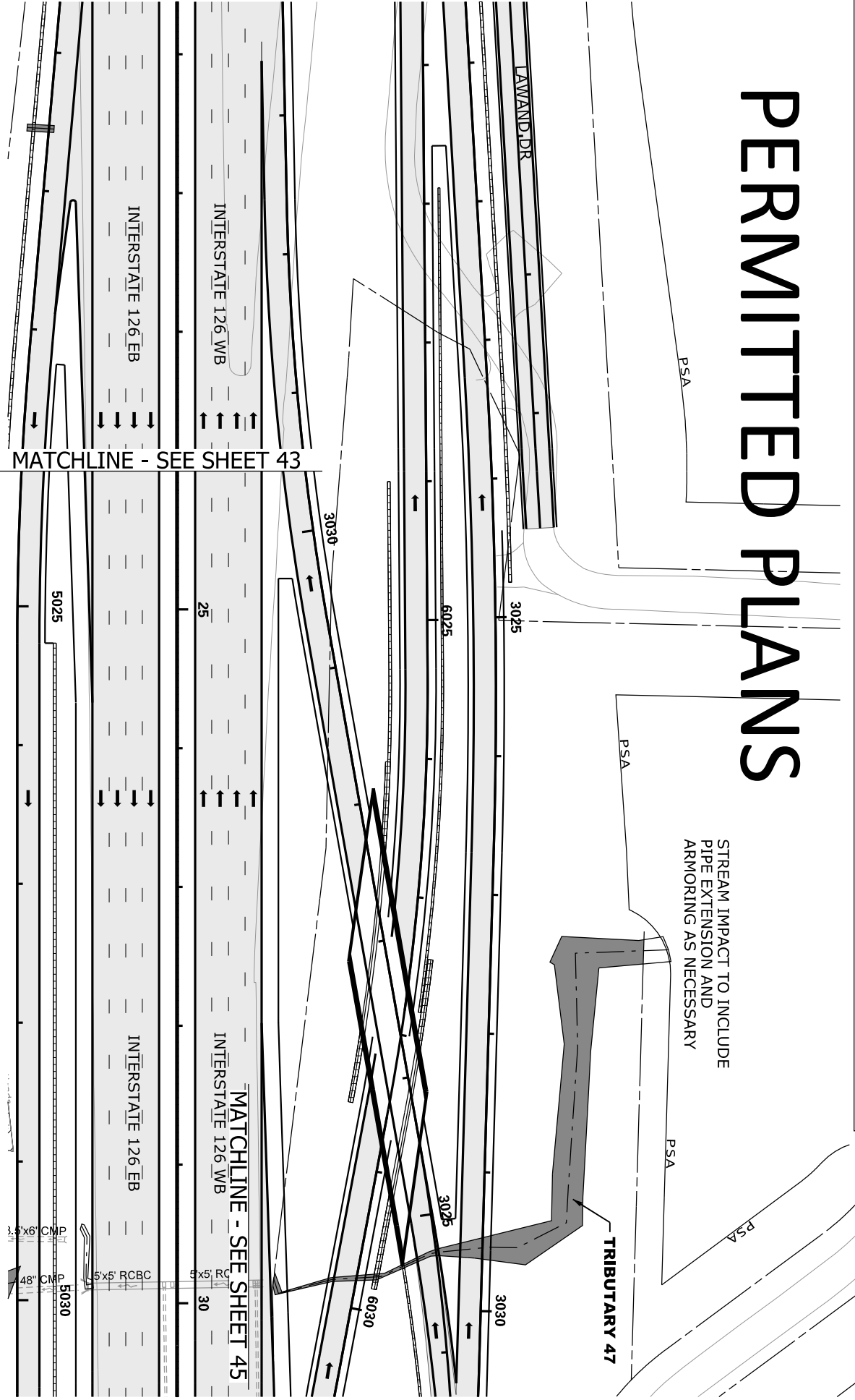
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 472 LF (7,474 SF) (0.18 AC)
 TRIB 47 = 472 LF (7,474 SF) (0.18 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

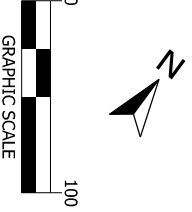
PERMITTED PLANS

STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY



LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- RELOCATED DITCH
- PERMIT BOUNDARY
- PROJECT STUDY AREA
PSA
- PROP MEDIUM BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD

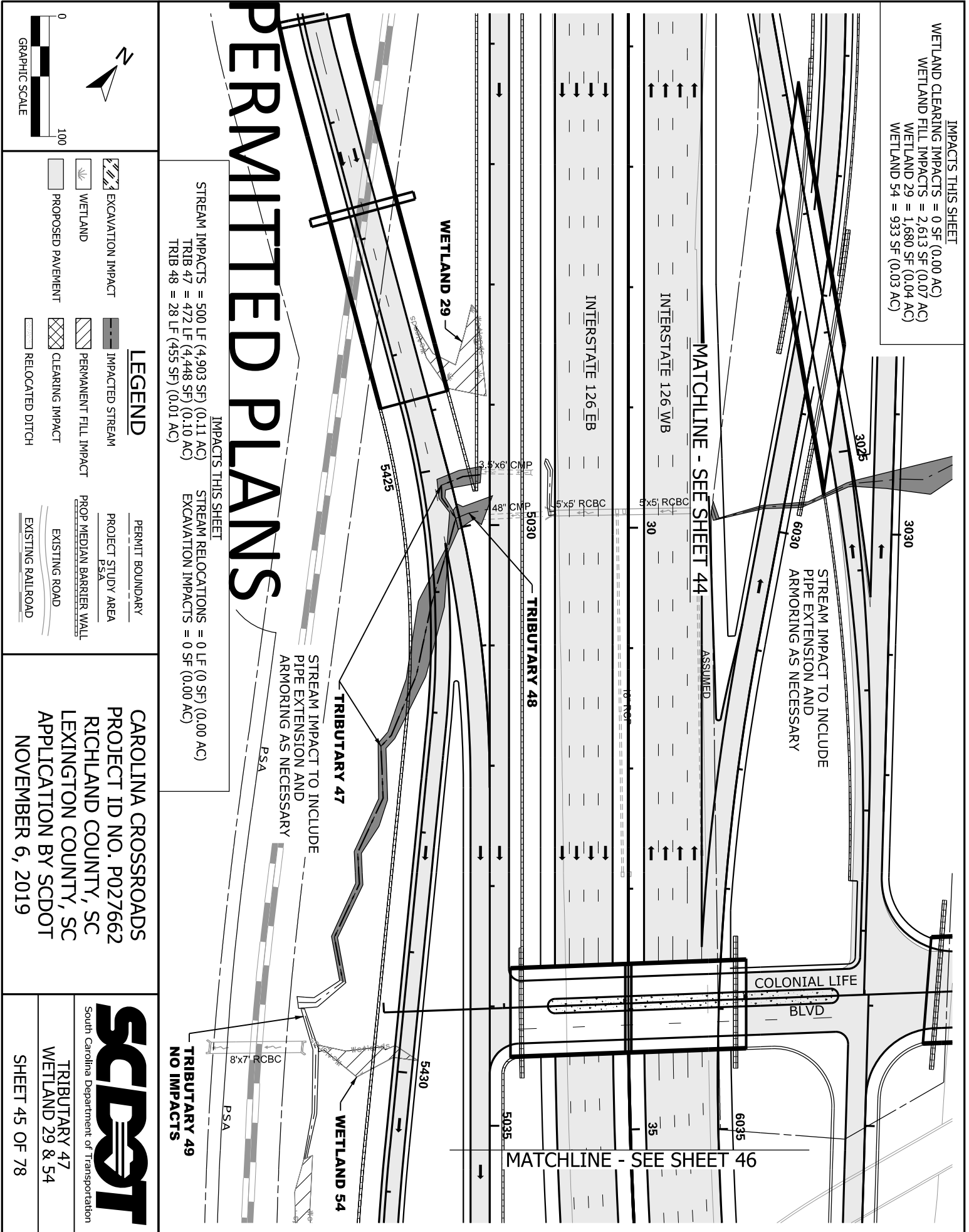


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TRIBUTARY 47
 SHEET 44 OF 78

IMPACTS THIS SHEET
 WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 2,613 SF (0.07 AC)
 WETLAND 29 = 1,680 SF (0.04 AC)
 WETLAND 54 = 933 SF (0.03 AC)



PERMITTED PLANS

IMPACTS THIS SHEET
 STREAM IMPACTS = 500 LF (4,903 SF) (0.11 AC)
 TRIB 47 = 472 LF (4,448 SF) (0.10 AC)
 TRIB 48 = 28 LF (455 SF) (0.01 AC)

IMPACTS THIS SHEET
 STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- RELOCATED DITCH
- PERMIT BOUNDARY
- PROJECT STUDY AREA
- PROP MEDIUM BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD

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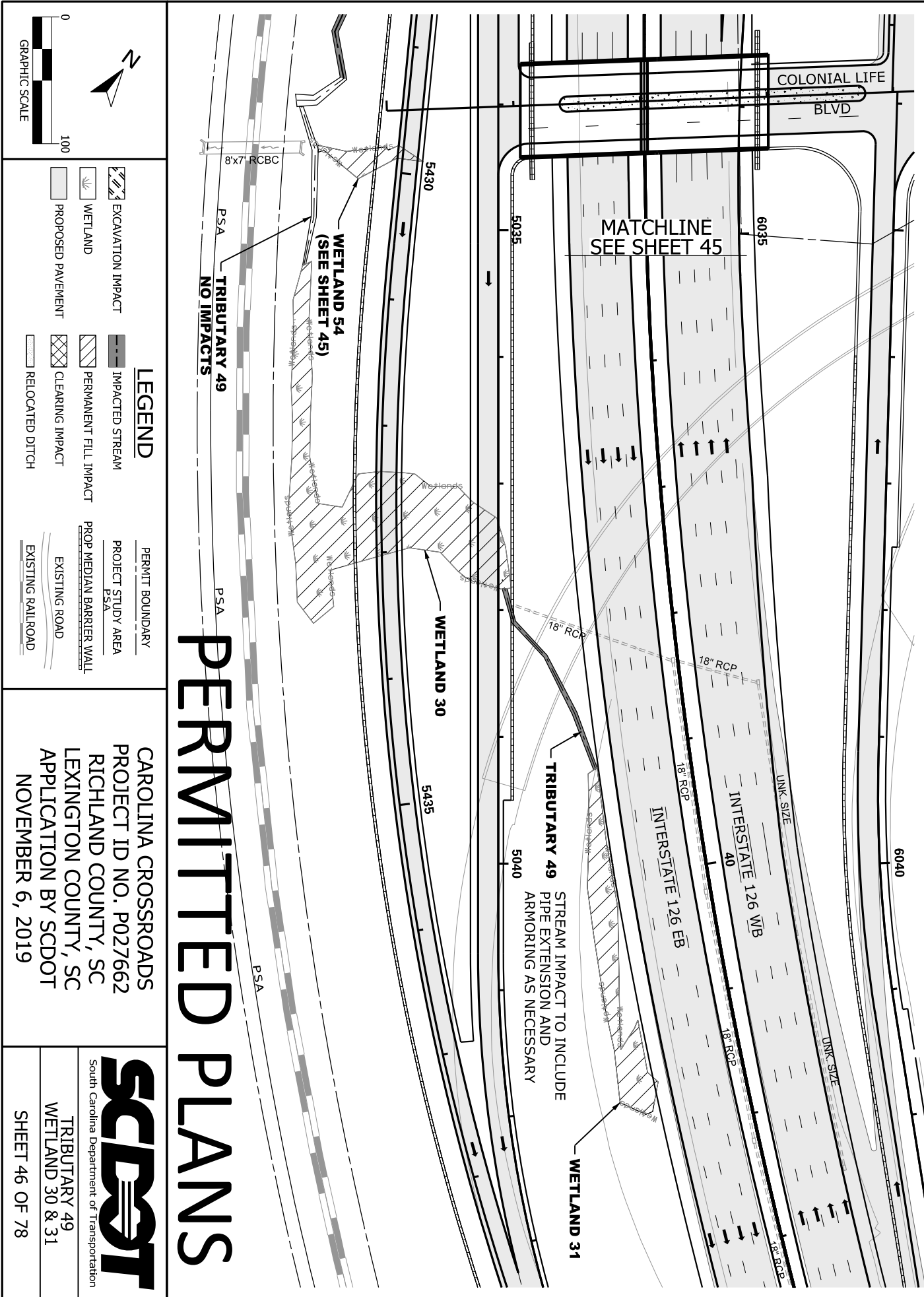


TRIBUTARY 47
 WETLAND 29 & 54
 SHEET 45 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 18,026 SF (0.42 AC)
 WETLAND 30 = 13,400 SF (0.31 AC)
 WETLAND 31 = 4,626 SF (0.11 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 162 LF (549 SF) (0.01 AC)
 TRIB 49 = 162 LF (549 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- RELOCATED DITCH
- PERMIT BOUNDARY
- PROJECT STUDY AREA PSA
- PROP MEDIAN BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD

PERMITTED PLANS

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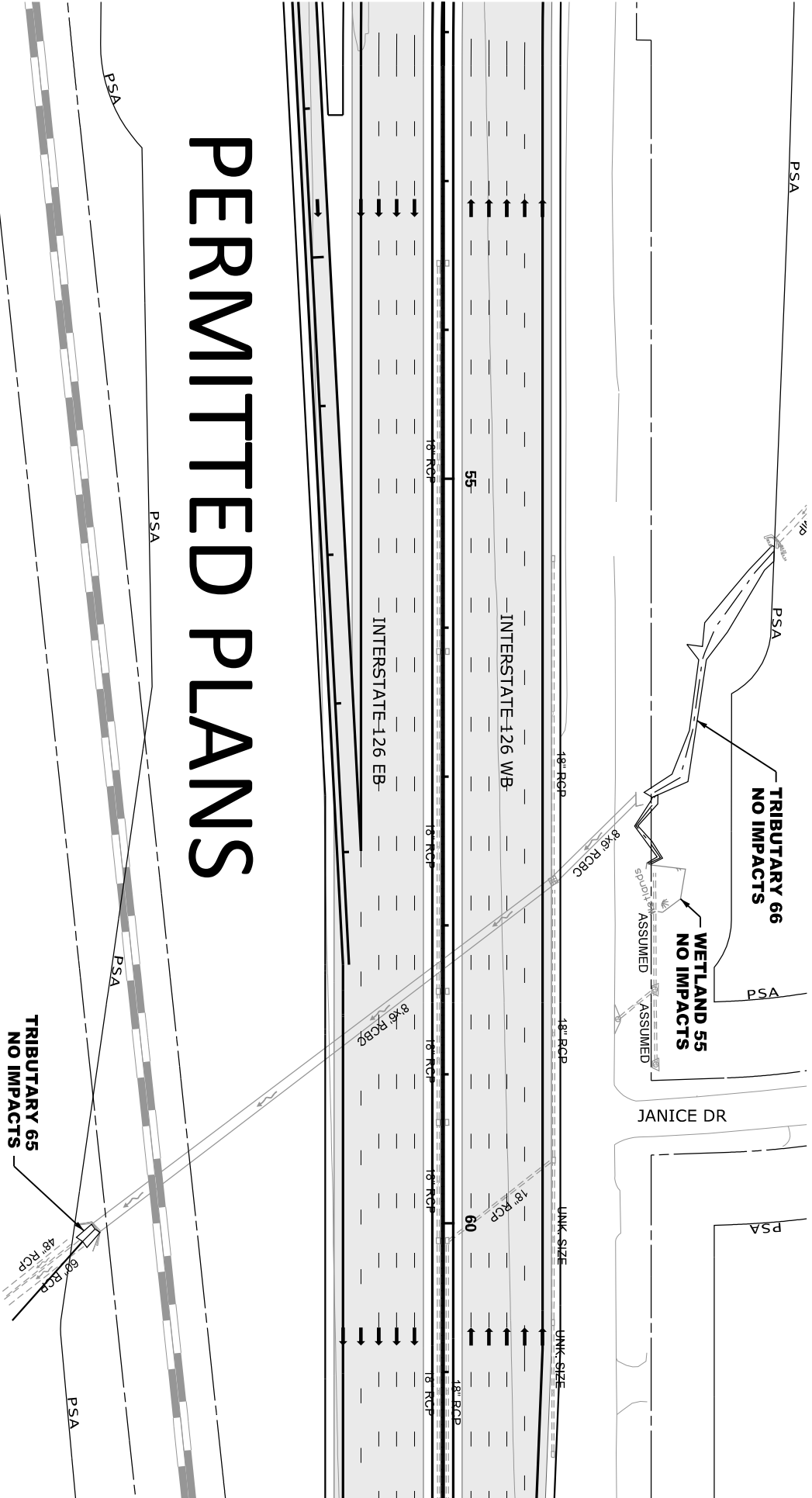


TRIBUTARY 49
 WETLAND 30 & 31
 SHEET 46 OF 78

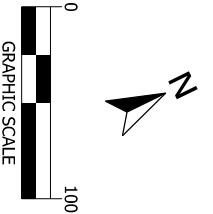
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)
 WETLAND 55 = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)
 TRIB 65 = 0 LF (0 SF) (0.00 AC)
 TRIB 65 = 0 LF (0 SF) (0.00 AC)
 TRIB 66 = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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TRIBUTARY 65 & 66
 WETLAND 55

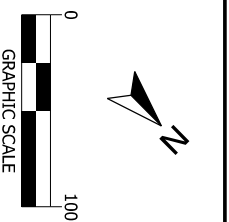
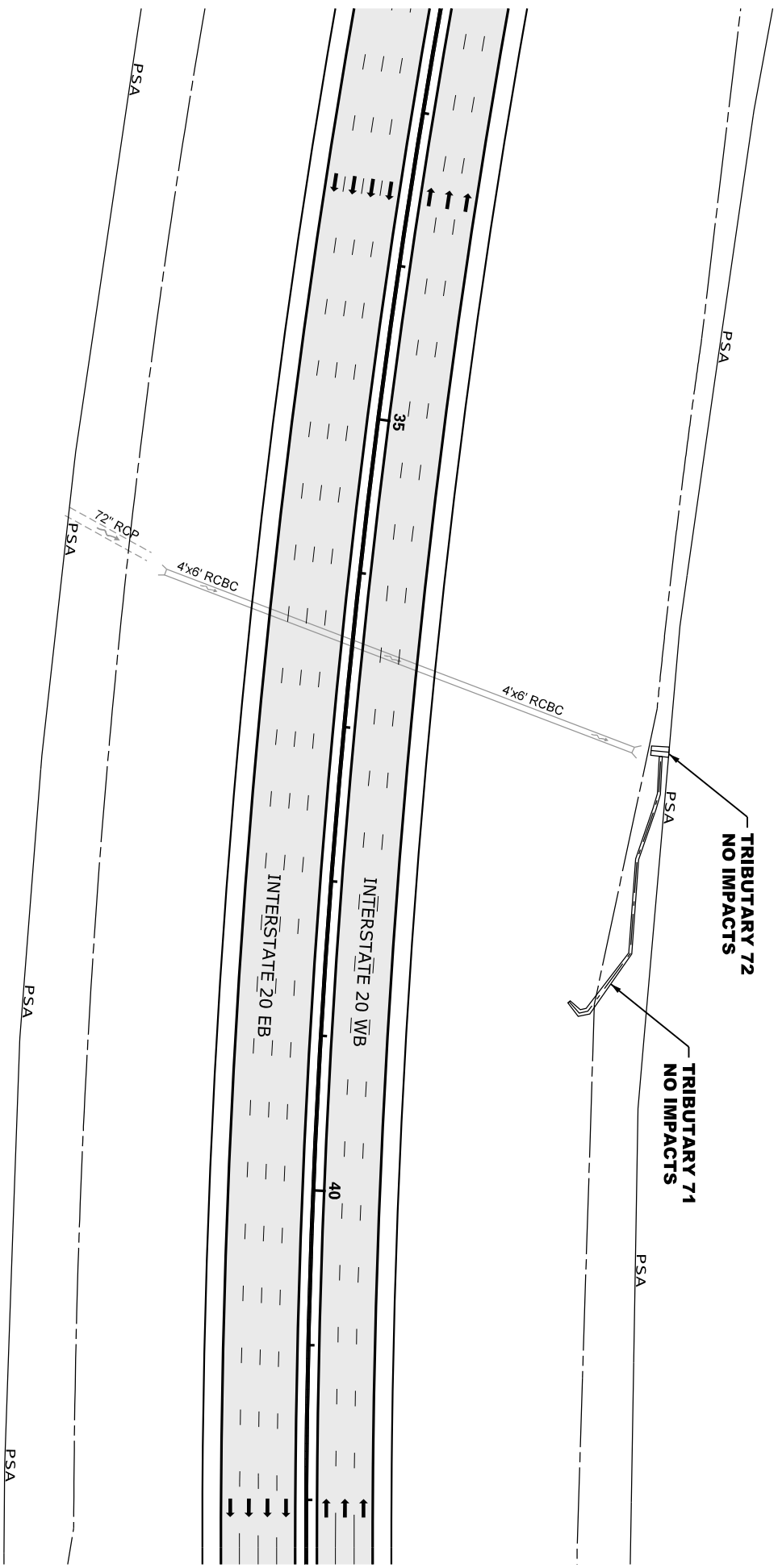
SHEET 47 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

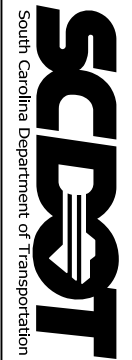
STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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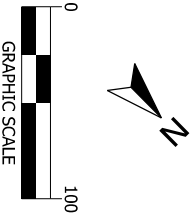
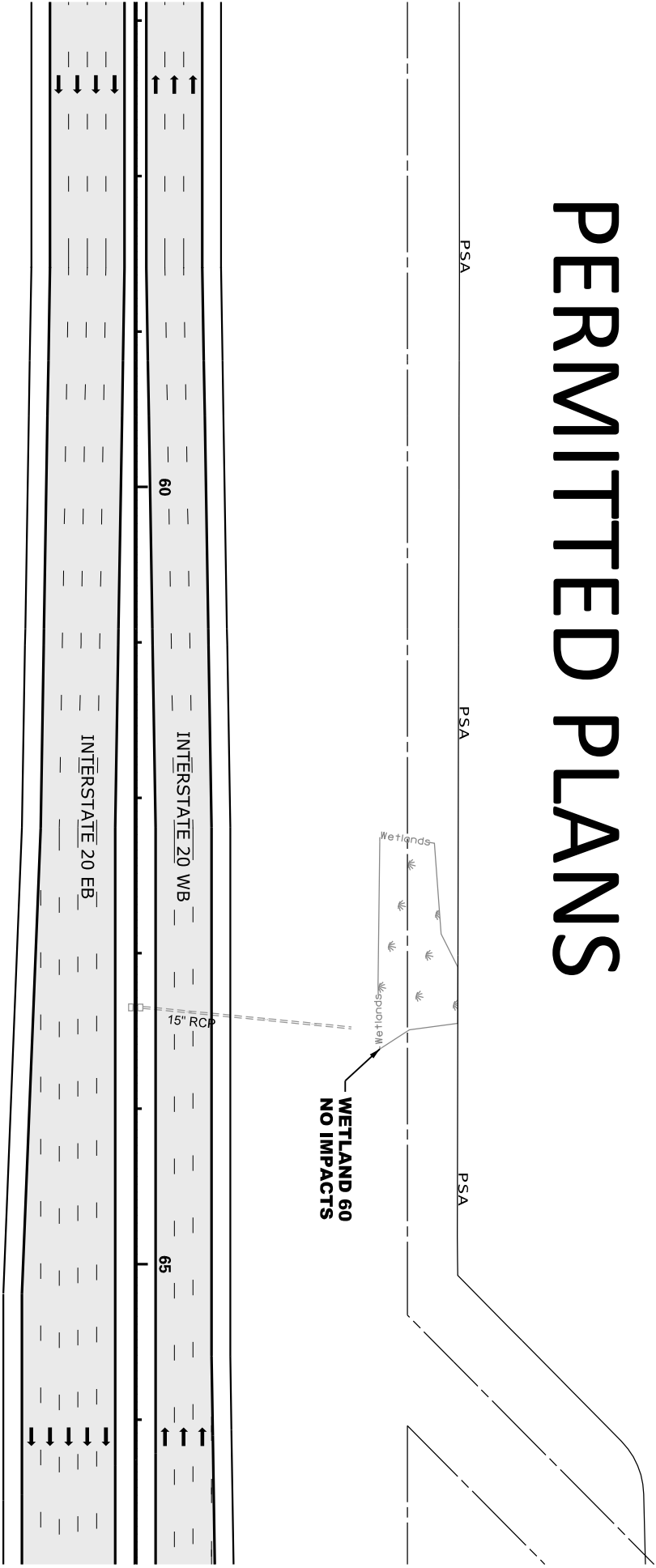
TRIBUTARY 71
 SHEET 48 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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WETLAND 60
 SHEET 49 OF 78

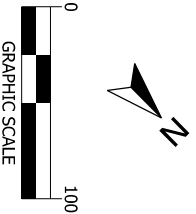
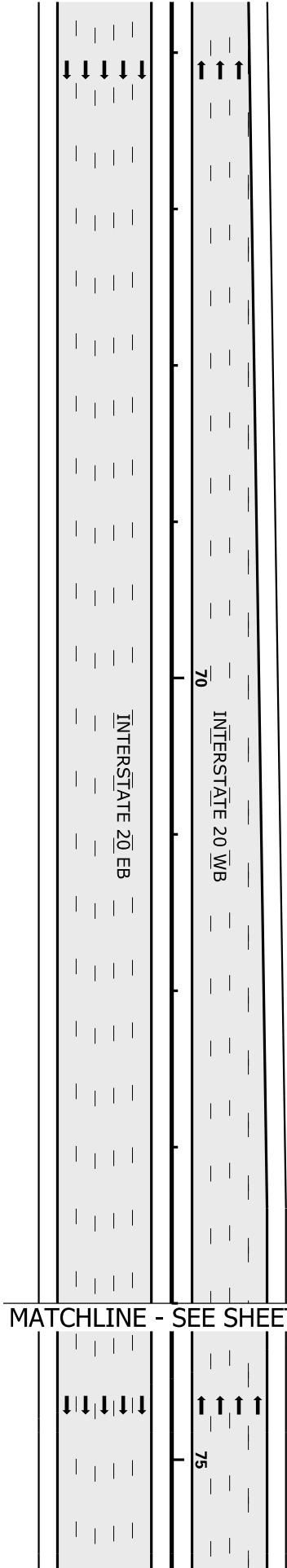
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PSA

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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 TRIBUTARY 69
 WETLAND 48
 SHEET 50 OF 78

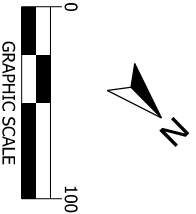
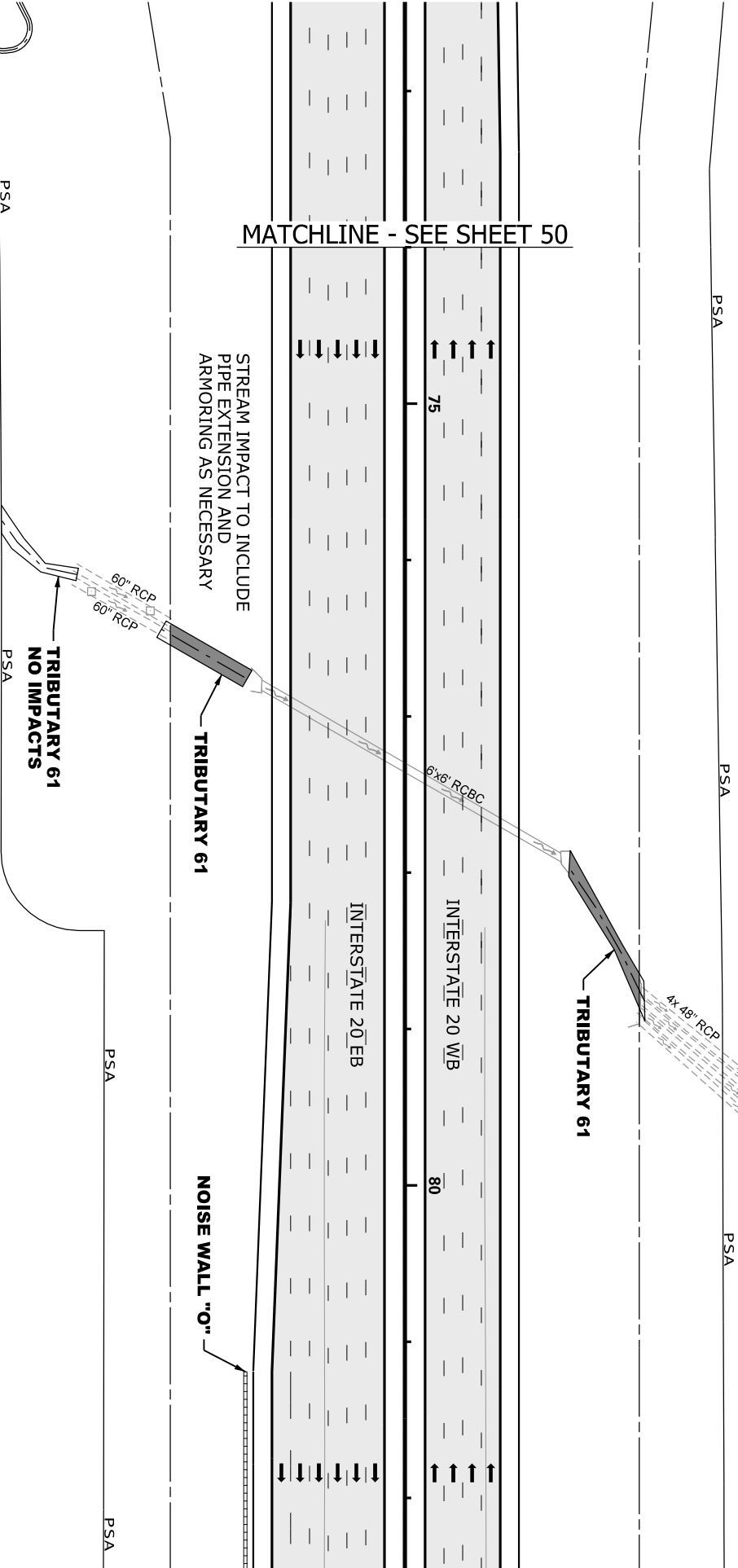
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

STREAM IMPACTS = 148 LF (1,394 SF) (0.04 AC)
 TRIB 61 = 148 LF (1,394 SF) (0.04 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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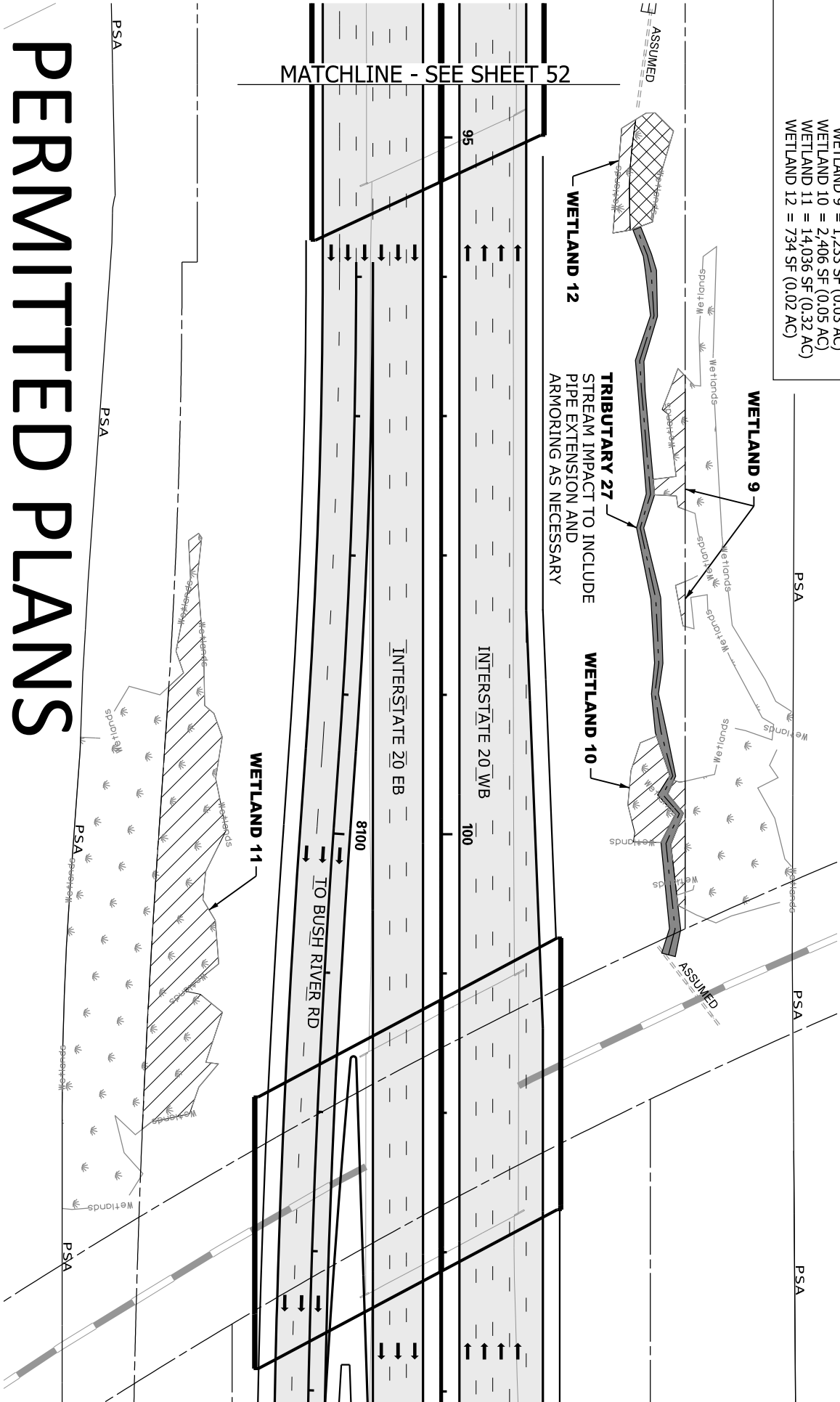
TRIBUTARY 61
 SHEET 51 OF 78

WETLAND CLEARING IMPACTS = 1,744 SF (0.04 AC)
 WETLAND 12 = 1,744 SF (0.04 AC)

WETLAND FILL IMPACTS = 18,409 SF (0.42 AC)
 WETLAND 9 = 1,233 SF (0.03 AC)
 WETLAND 10 = 2,406 SF (0.05 AC)
 WETLAND 11 = 14,036 SF (0.32 AC)
 WETLAND 12 = 734 SF (0.02 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 539 LF (3,331 SF) (0.08 AC)
 TRIB 27 = 539 LF (3,331 SF) (0.08 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



PERMITTED PLANS

LEGEND

- | | | | | | |
|--|-------------------|--|-----------------------|--|--------------------------|
| | EXCAVATION IMPACT | | IMPACTED STREAM | | PERMIT BOUNDARY |
| | WETLAND | | PERMANENT FILL IMPACT | | PROJECT STUDY AREA |
| | PROPOSED PAVEMENT | | CLEARING IMPACT | | PROP MEDIAN BARRIER WALL |
| | RELOCATED DITCH | | EXISTING ROAD | | EXISTING RAILROAD |

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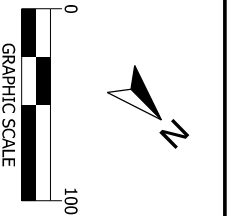
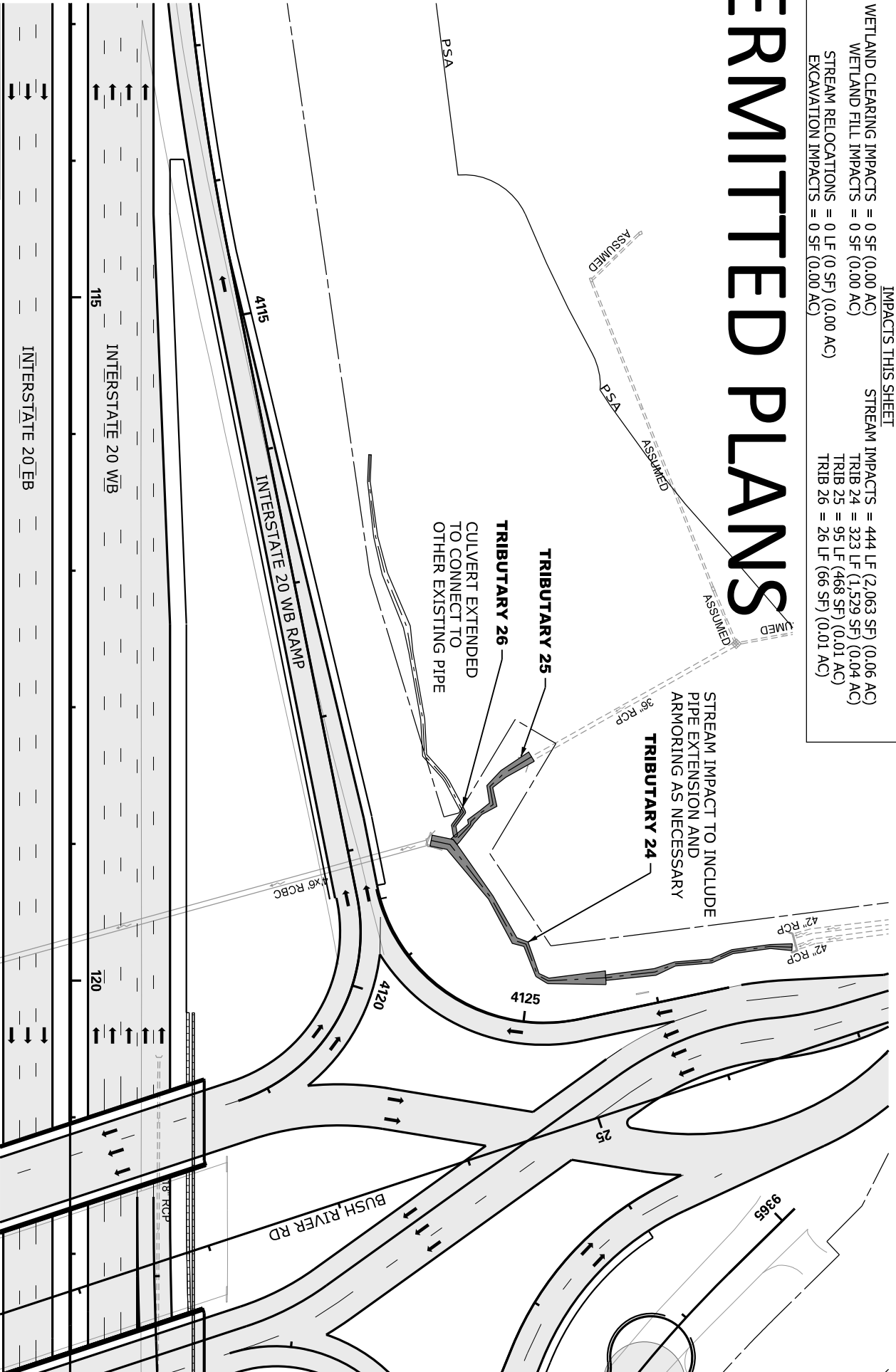
TRIBUTARY 27
 WETLAND 9, 10 & 11

SHEET 53 OF 78

IMPACTS THIS SHEET

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)	STREAM IMPACTS = 444 LF (2,063 SF) (0.06 AC)
WETLAND FILL IMPACTS = 0 SF (0.00 AC)	TRIB 24 = 323 LF (1,529 SF) (0.04 AC)
STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)	TRIB 25 = 95 LF (468 SF) (0.01 AC)
EXCAVATION IMPACTS = 0 SF (0.00 AC)	TRIB 26 = 26 LF (66 SF) (0.01 AC)

PERMITTED PLANS



	EXCAVATION IMPACT		IMPACTED STREAM
	WETLAND		PERMANENT FILL IMPACT
	PROPOSED PAVEMENT		CLEARING IMPACT
	RELOCATED DITCH		PROP MEDIAN BARRIER WALL
			EXISTING ROAD
			EXISTING RAILROAD
LEGEND			
			PERMIT BOUNDARY
			PROJECT STUDY AREA
			PSA

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TRIBUTARY 24, 25 & 26

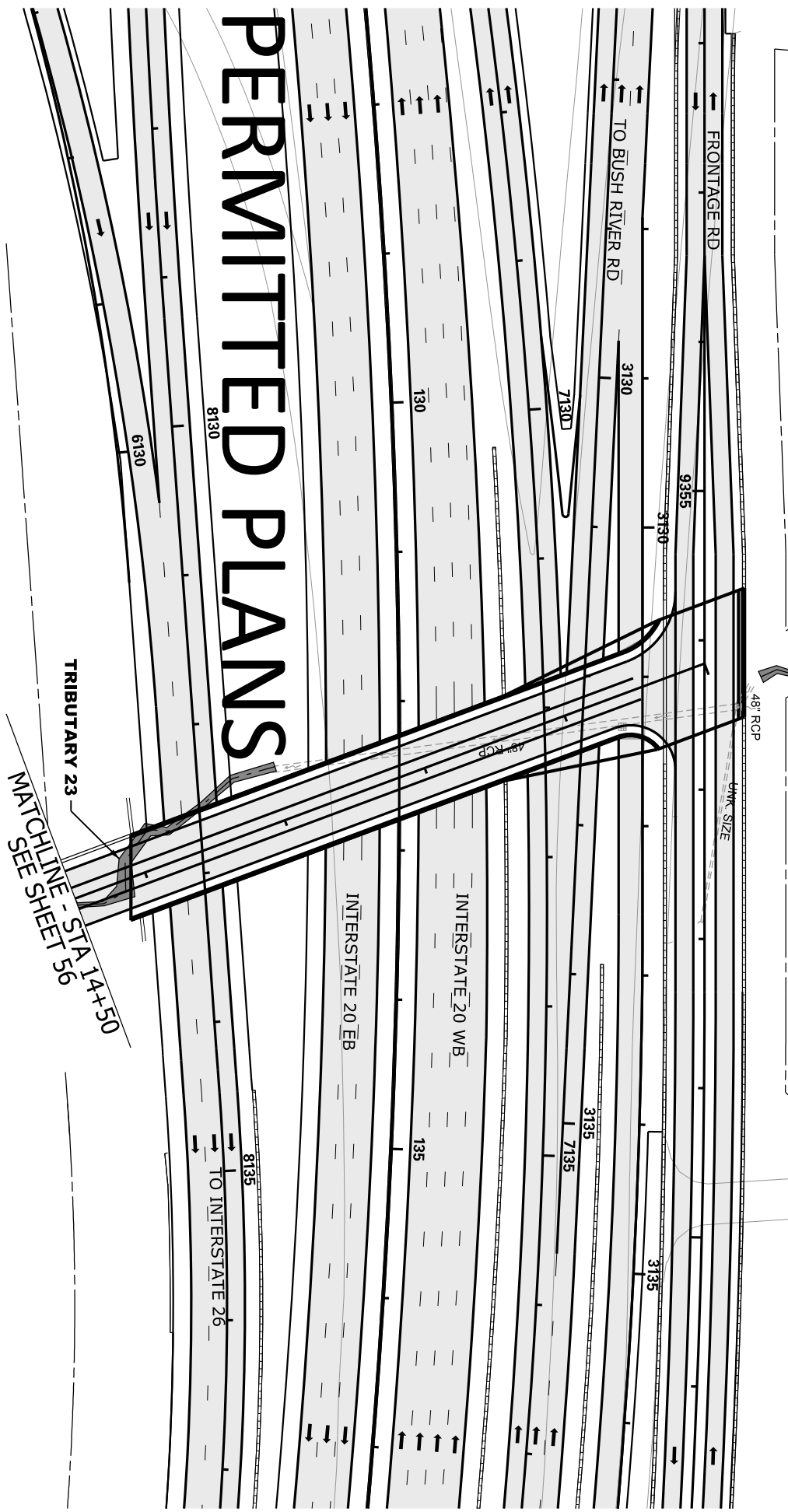
SHEET 54 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

STREAM IMPACTS = 250 LF (1,445 SF) (0.04 AC)
 TRIB 23-1 = 70 LF (350 SF) (0.01 AC)
 TRIB 23-2 = 180 LF (1,095 SF) (0.03 AC)

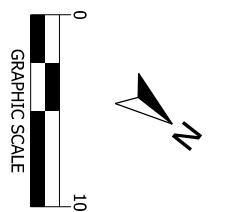
STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY



PERMITTED PLANS

TRIBUTARY 23
 MATCHLINE - STA 141+50
 SEE SHEET 56



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA FSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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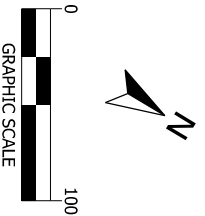
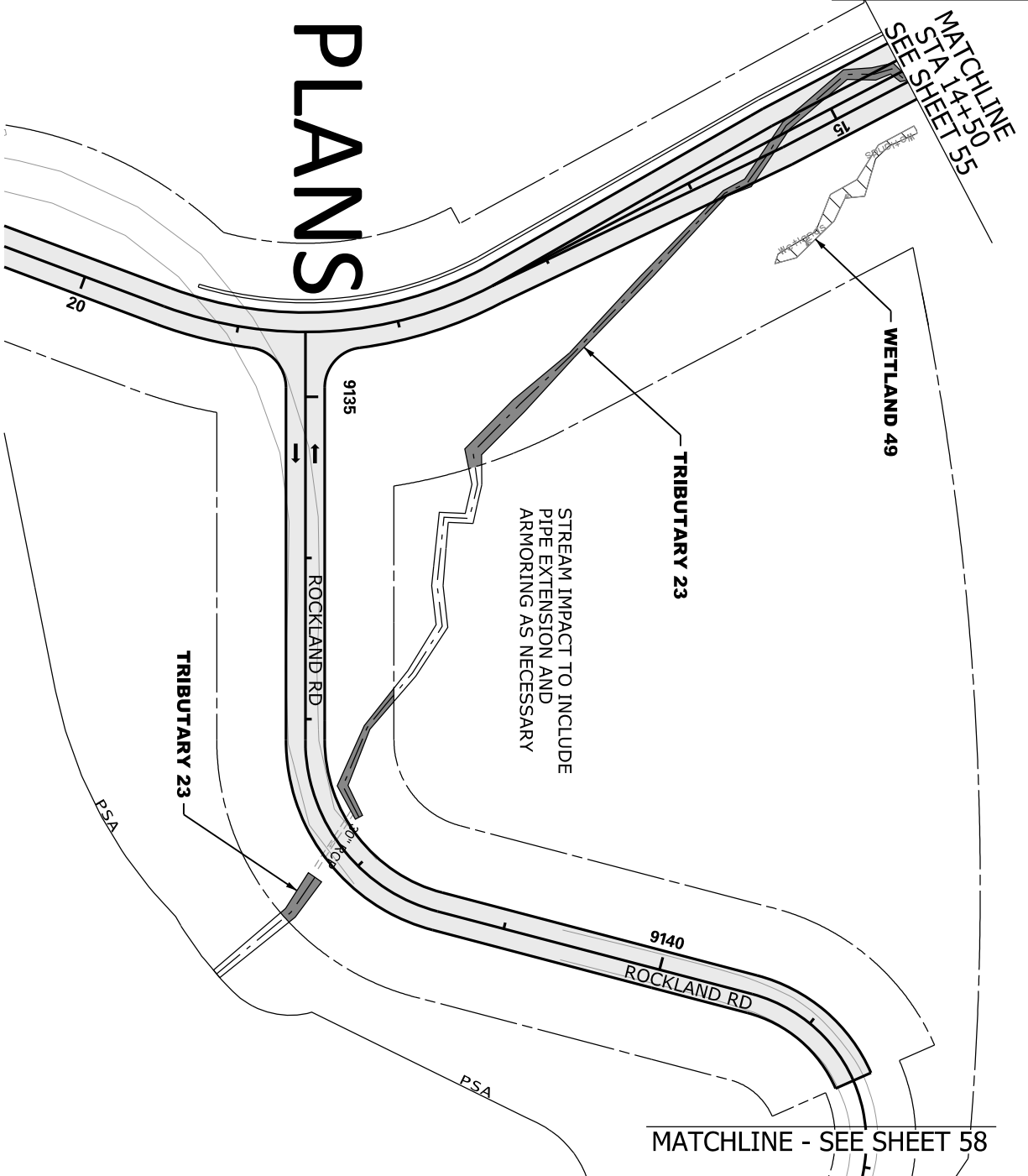
TRIBUTARY 23
 SHEET 55 OF 78

IMPACTS THIS SHEET
 WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 755 SF (0.01 AC)
 WETLAND 49 = 755 SF (0.01 AC)

STREAM IMPACTS = 501 LF (2,365 SF) (0.08 AC)
 TRIB 23 = 381 LF (3,038 SF) (0.06 AC)
 TRIB 23 = 88 LF (438 SF) (0.01 AC)
 TRIB 23 = 32 LF (277 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

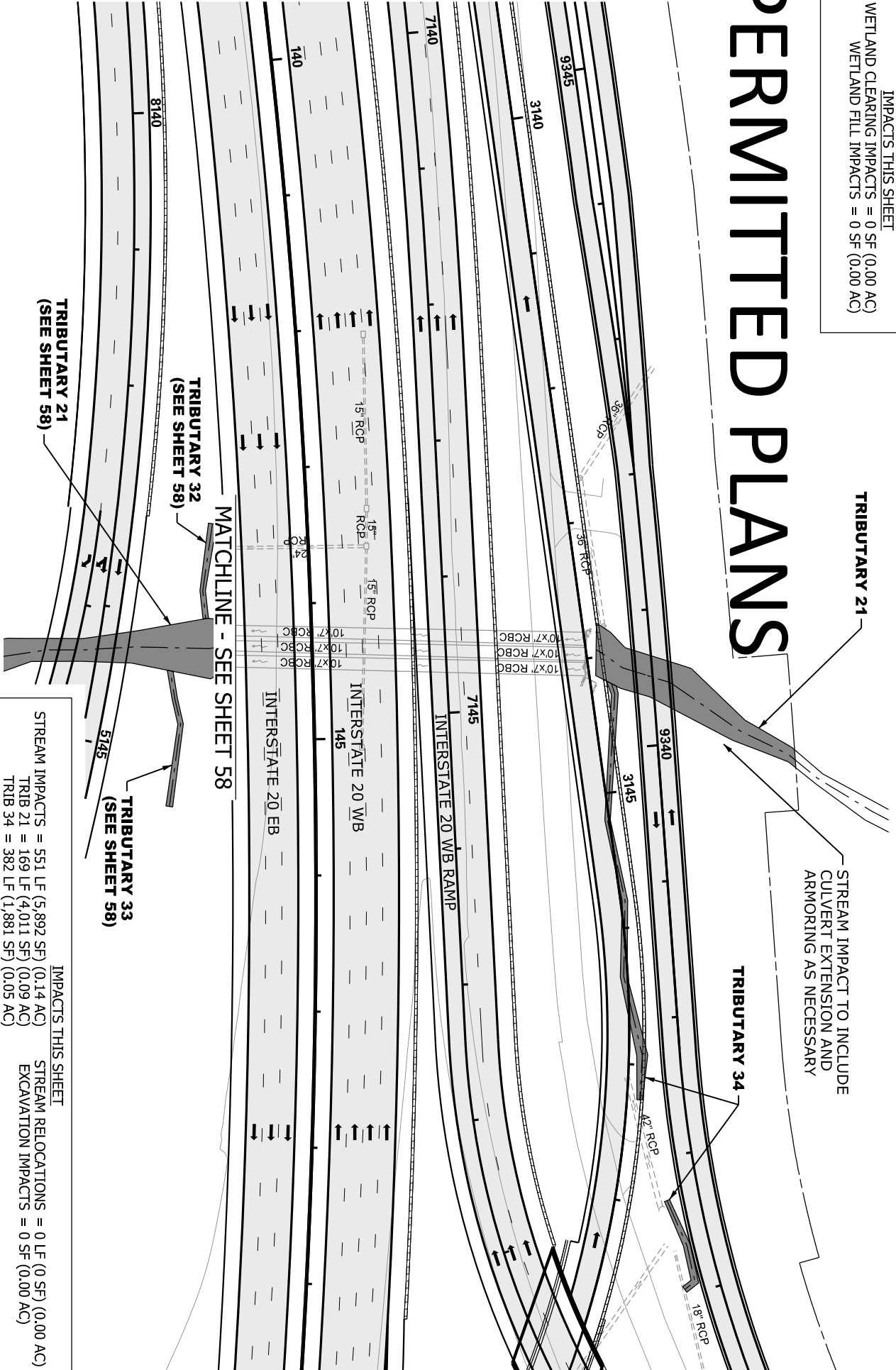
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WETLAND 49
 TRIBUTARY 23
 SHEET 56 OF 78

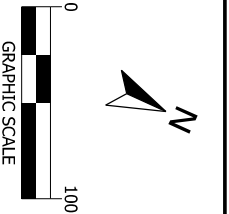
IMPACTS THIS SHEET
 WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS



IMPACTS THIS SHEET
 STREAM IMPACTS = 551 LF (5,892 SF) (0.14 AC)
 TRIB 21 = 169 LF (4,011 SF) (0.09 AC)
 TRIB 34 = 382 LF (1,881 SF) (0.05 AC)

IMPACTS THIS SHEET
 STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



LEGEND

	EXCAVATION IMPACT		IMPACTED STREAM		PERMIT BOUNDARY
	WETLAND		PERMANENT FILL IMPACT		PROJECT STUDY AREA
	PROPOSED PAVEMENT		CLEARING IMPACT		PROP MEDIUM BARRIER WALL
	RELOCATED DITCH		EXISTING ROAD		EXISTING RAILROAD

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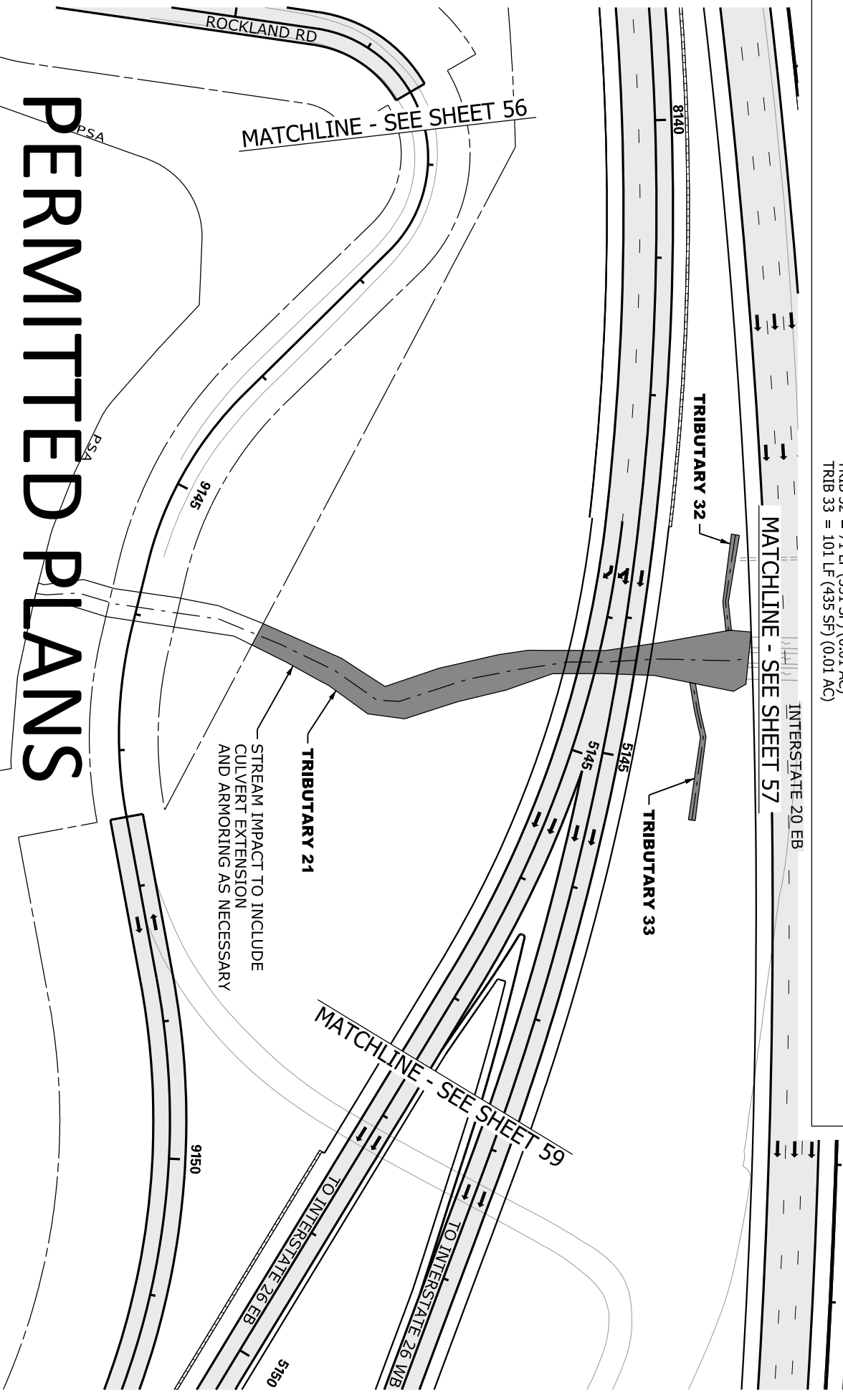
SCDOT
 South Carolina Department of Transportation

TRIBUTARY 21 & 34
 SHEET 57 OF 78

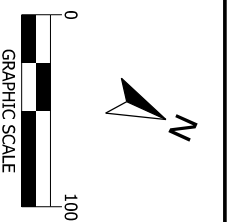
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 546 LF (9,857 SF) (0.23 AC)
 TRIB 21 = 374 LF (9,091 SF) (0.21 AC)
 TRIB 32 = 71 LF (331 SF) (0.01 AC)
 TRIB 33 = 101 LF (435 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

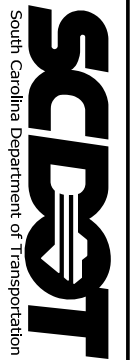


PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

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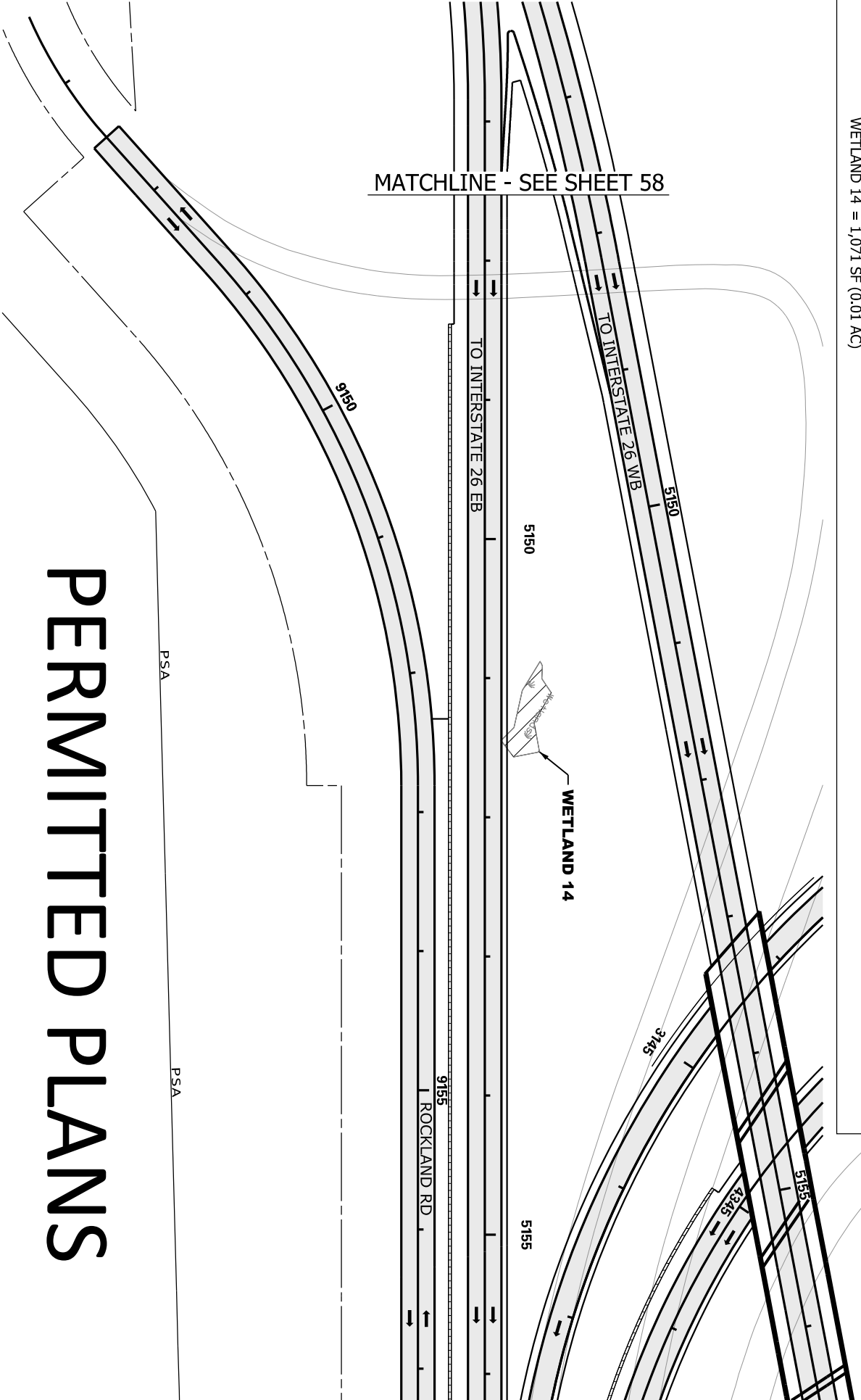
TRIBUTARY
 21, 32 & 33
 SHEET 58 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 1,071 SF (0.01 AC)
 WETLAND 14 = 1,071 SF (0.01 AC)

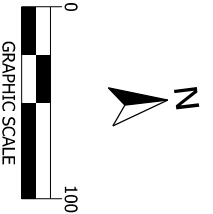
IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

MATCHLINE - SEE SHEET 58



PERMITTED PLANS



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

CAROLINA CROSSROADS
 PROJECT ID NO. P027662
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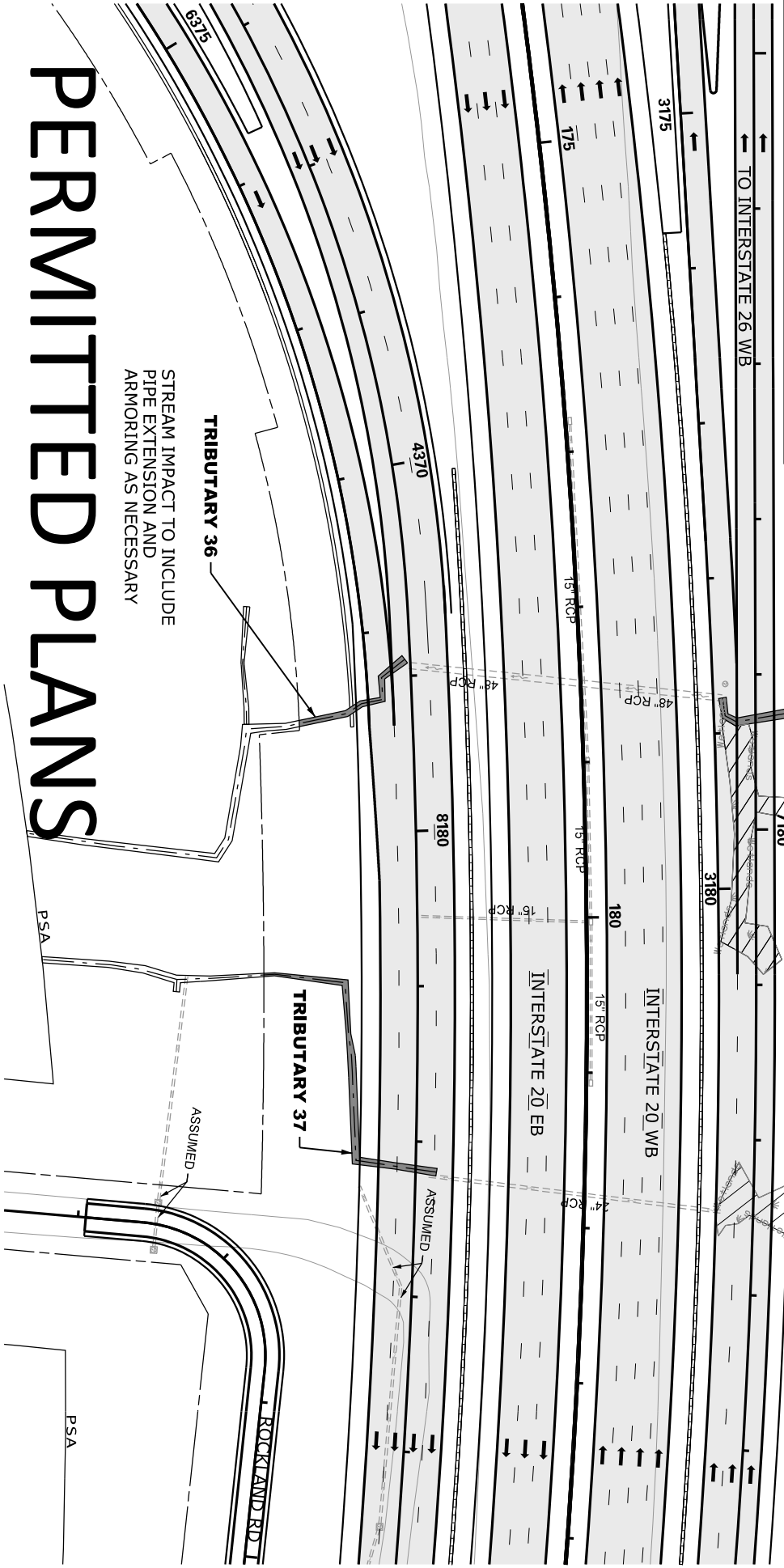


WETLAND 14
 SHEET 59 OF 78

IMPACTS THIS SHEET

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 6,543 SF (0.16 AC)
 WETLAND 13 = 2,894 SF (0.07 AC)
 WETLAND 15 = 3,649 SF (0.09 AC)
 EXCAVATION IMPACTS = 330 SF (0.01 AC)
 DET AREA 55 = 330 SF (0.01 AC)

STREAM IMPACTS = 462 LF (1,914 SF) (0.05 AC)
 TRIB 35 = 152 LF (651 SF) (0.02 AC)
 TRIB 36 = 90 LF (365 SF) (0.01 AC)
 TRIB 37 = 220 LF (898 SF) (0.02 AC)
 STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)



STREAM IMPACT TO INCLUDE
 PIPE EXTENSION AND
 ARMORING AS NECESSARY

PERMITTED PLANS

LEGEND

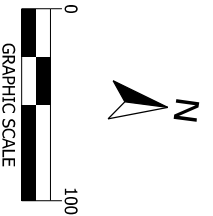
- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- RELOCATED DITCH
- PERMIT BOUNDARY
- PROJECT STUDY AREA PSA
- PROP MEDIAN BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD

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South Carolina Department of Transportation

TRIBUTARY 35, 36 & 37
 WETLAND 13 & 15

SHEET 60 OF 78



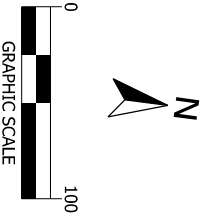
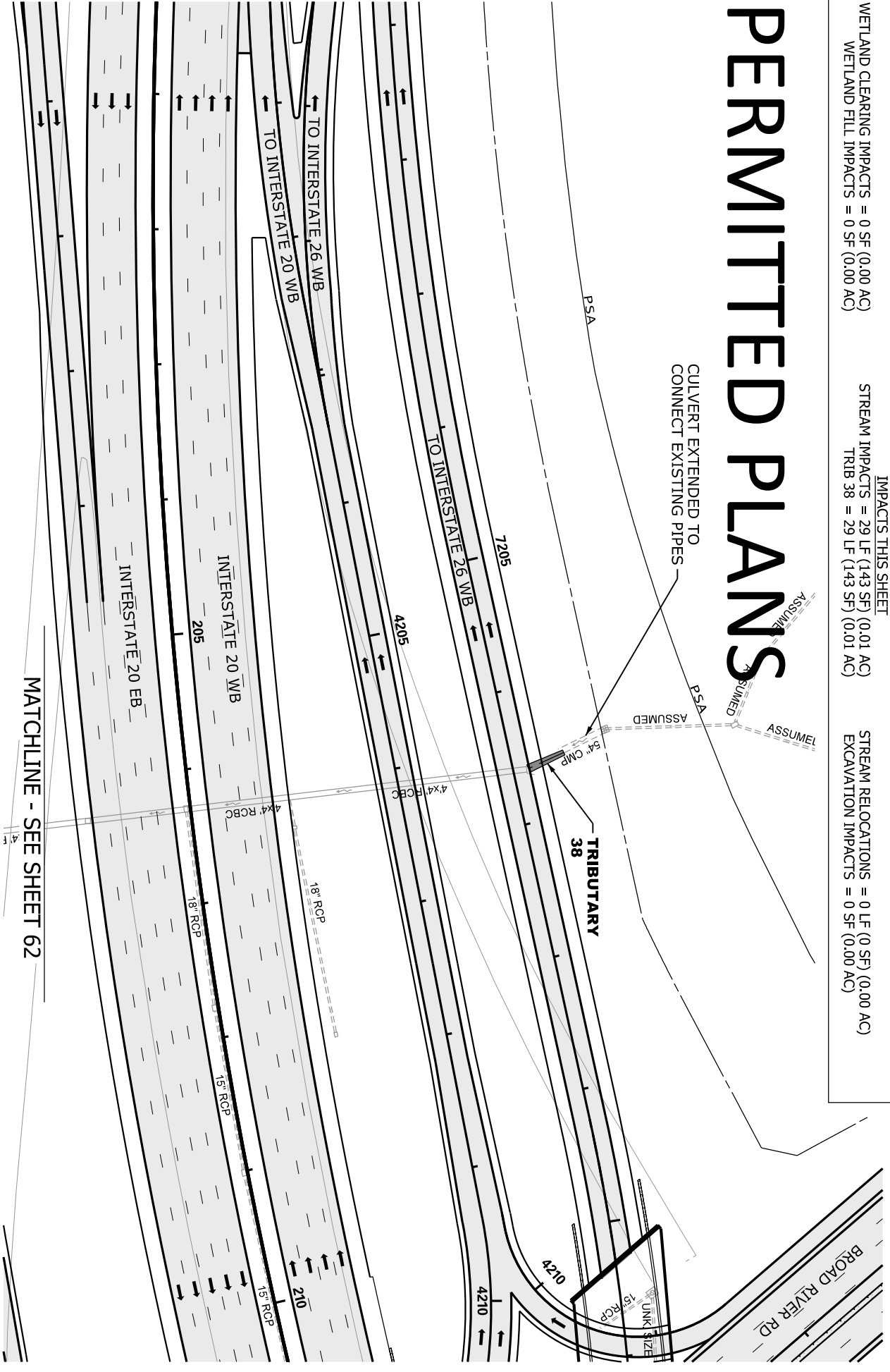
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 29 LF (143 SF) (0.01 AC)
 TRIB 38 = 29 LF (143 SF) (0.01 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PERMITTED PLANS

CULVERT EXTENDED TO
 CONNECT EXISTING PIPES



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA
	PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

CAROLINA CROSSROADS
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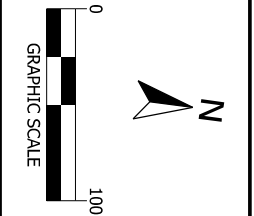


TRIBUTARY 38
 SHEET 61 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

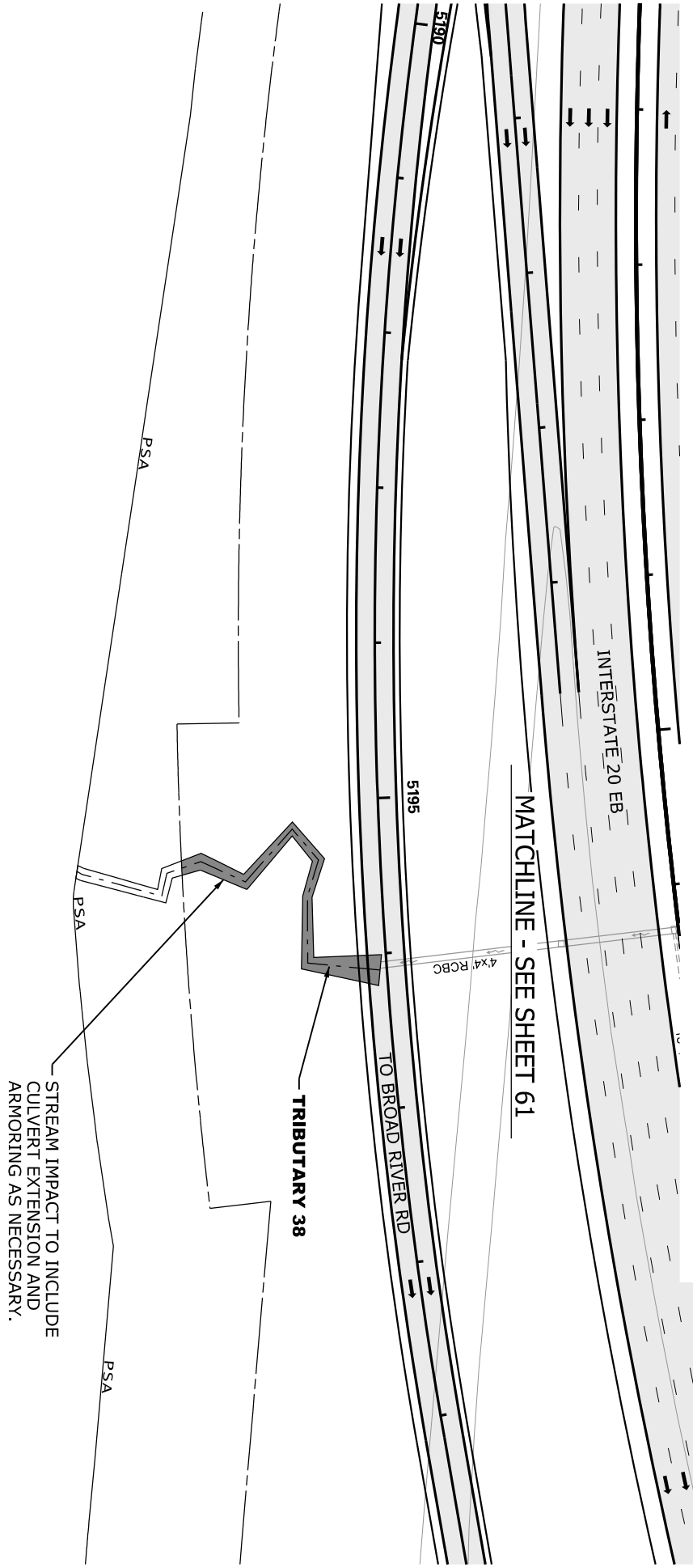
IMPACTS THIS SHEET
 STREAM IMPACTS = 231 LF (2,012 SF) (0.05 AC)
 TRIB 38 = 231 LF (2,012 SF) (0.05 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	RELOCATED DITCH
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

PERMITTED PLANS



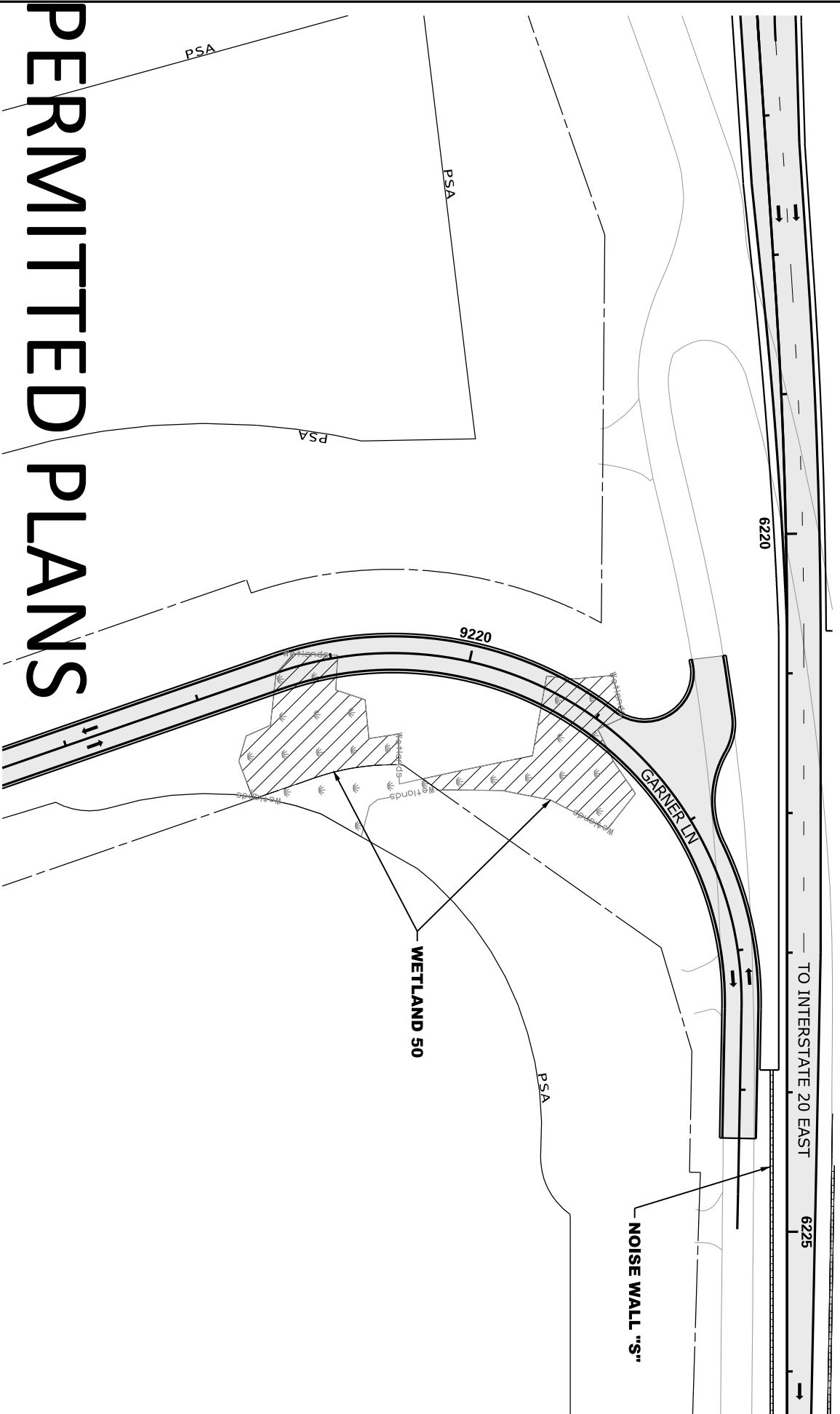
CAROLINA CROSSROADS
 PROJECT ID NO. P027662
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 LEXINGTON COUNTY, SC
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TRIBUTARY 38
 SHEET 62 OF 78

WETLAND FILL IMPACTS = 13,511 SF (0.31 AC)
 WETLAND 50 = 13,511 SF (0.31 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 0 LF (0 SF) (0.00 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)



PERMITTED PLANS

LEGEND

- | | | | | | |
|--|-------------------|--|-----------------------|--|--------------------------|
| | EXCAVATION IMPACT | | IMPACTED STREAM | | PERMIT BOUNDARY |
| | WETLAND | | PERMANENT FILL IMPACT | | PROJECT STUDY AREA |
| | PROPOSED PAVEMENT | | CLEARING IMPACT | | PSA |
| | RELOCATED DITCH | | EXISTING ROAD | | PROP MEDIAN BARRIER WALL |
| | | | EXISTING RAILROAD | | |

CAROLINA CROSSROADS
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WETLAND 50

SHEET 63 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 170 LF (850 SF) (0.02 AC)
 TRIB 39 = 170 LF (850 SF) (0.02 AC)

STREAM RELOCATIONS = 220 LF (1,348 SF) (0.03 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PSA

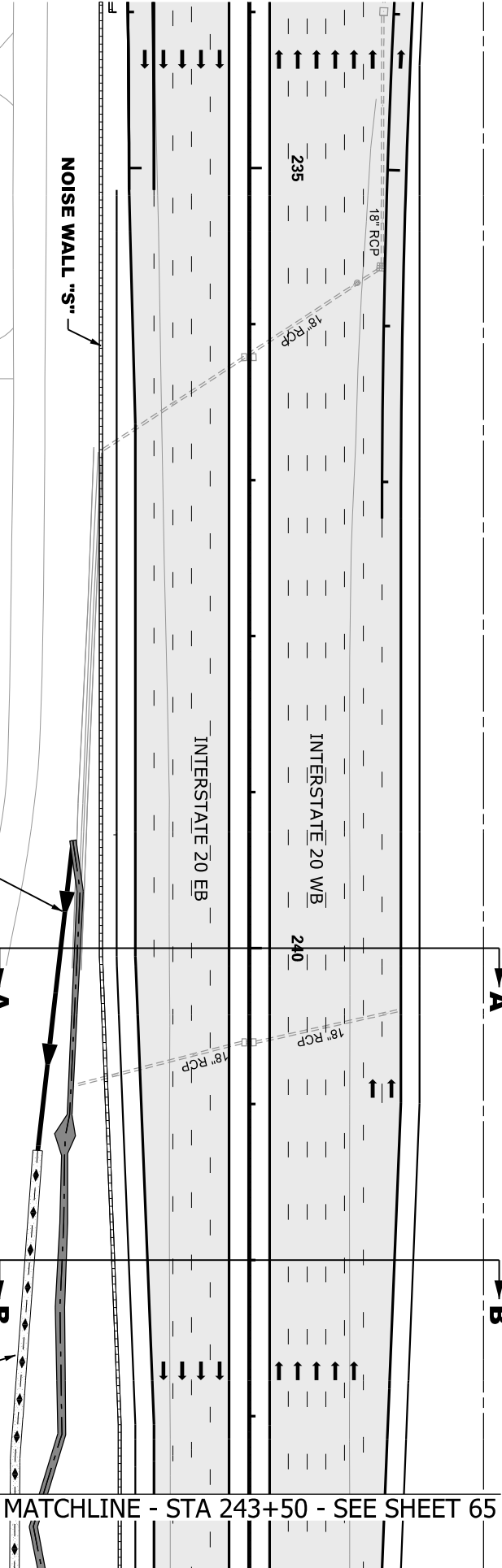
PSA

PSA

PERMITTED PLANS

SEE SHEET 74 FOR
CROSS SECTION A-A

SEE SHEET 75 FOR
CROSS SECTION B-B



STREAM PIPED FOR
APPROXIMATELY 170 LF

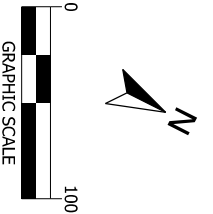
APPROXIMATE CHANNEL RELOCATION BASED
ON LIMITED AVAILABILITY OF SURVEY DATA.
SURVEYED DATA AND FINAL STREAM LOCATION
WILL BE SUBMITTED WITH PERMIT MODIFICATION.

RELOCATED
TRIBUTARY 39

MATCHLINE - STA 243+50 - SEE SHEET 65

LEGEND

- | | | | | | |
|--|--------------------|--|-----------------------|--|--------------------------|
| | EXCAVATION IMPACT | | IMPACTED STREAM | | PERMIT BOUNDARY |
| | WETLAND | | PERMANENT FILL IMPACT | | PROJECT STUDY AREA |
| | PROPOSED PAVEMENT | | CLEARING IMPACT | | PROP MEDIUM BARRIER WALL |
| | CHANNEL RELOCATION | | EXISTING ROAD | | EXISTING RAILROAD |



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 REVISED AUGUST 27, 2020



TRIBUTARY 39
STREAM RELOCATION

SHEET 64 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 900 LF (5,105 SF) (0.12 AC)
 TRIB 39 = 900 LF (5,105 SF) (0.12 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PSA

PSA

PSA

PERMITTED PLANS

MATCHLINE - STA 243+50 - SEE SHEET 64

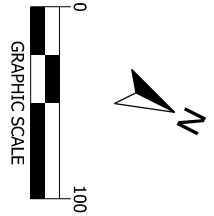
MATCHLINE - STA 252+50 - SEE SHEET 66

APPROXIMATE CHANNEL RELOCATION BASED ON LIMITED AVAILABILITY OF SURVEY DATA. SURVEYED DATA AND FINAL STREAM LOCATION WILL BE SUBMITTED WITH PERMIT MODIFICATION.

PSA

PSA

PSA



LEGEND	
	EXCAVATION IMPACT
	WETLAND
	PROPOSED PAVEMENT
	IMPACTED STREAM
	PERMANENT FILL IMPACT
	CLEARING IMPACT
	CHANNEL RELOCATION
	PERMIT BOUNDARY
	PROJECT STUDY AREA PSA
	PROP MEDIAN BARRIER WALL
	EXISTING ROAD
	EXISTING RAILROAD

CAROLINA CROSSROADS
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RELOCATED
 TRIBUTARY 39

NOISE WALL "S"

INTERSTATE 20 EB

INTERSTATE 20 WB

245

250

18

15

RC

RC



TRIBUTARY 39
 STREAM RELOCATION
 SHEET 65 OF 78

WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

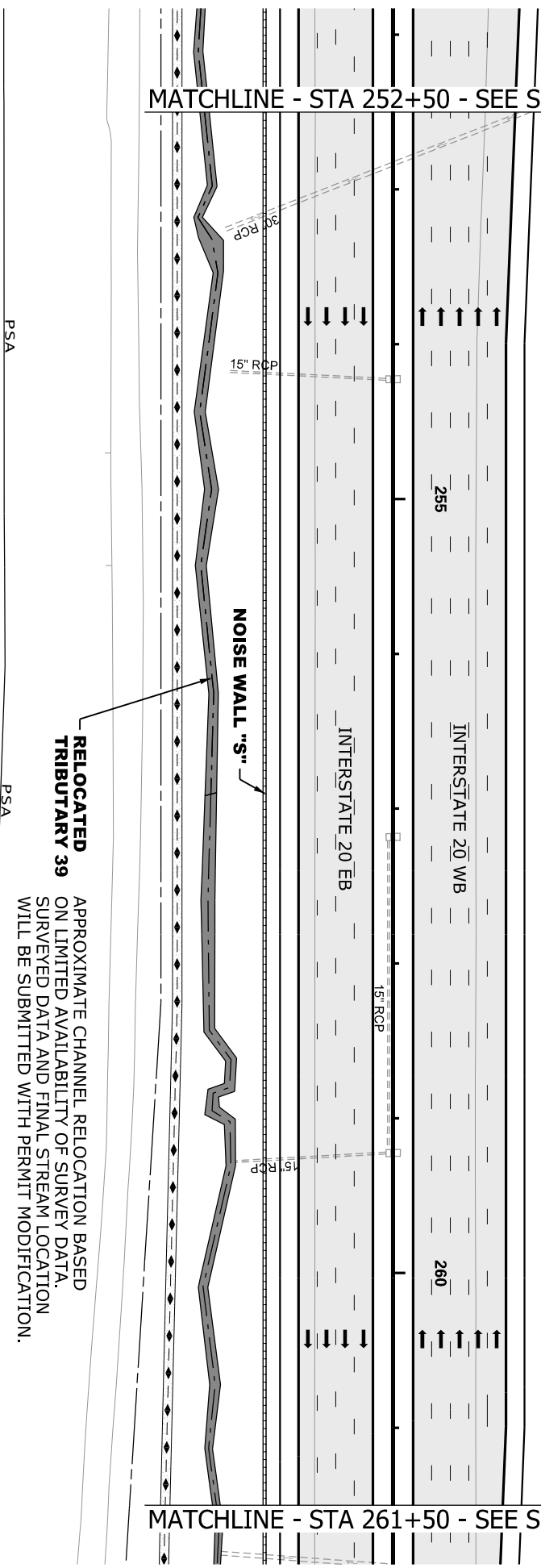
STREAM RELOCATIONS = 900 LF (5,105 SF) (0.12 AC)
 TRIB 39 = 900 LF (5,105 SF) (0.12 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

PSA _____ PSA _____ PSA _____

PERMITTED PLANS

MATCHLINE - STA 252+50 - SEE SHEET 65

MATCHLINE - STA 261+50 - SEE SHEET 67

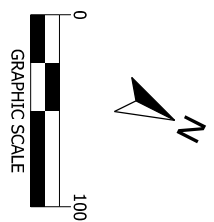


RELOCATED TRIBUTARY 39

APPROXIMATE CHANNEL RELOCATION BASED ON LIMITED AVAILABILITY OF SURVEY DATA. SURVEYED DATA AND FINAL STREAM LOCATION WILL BE SUBMITTED WITH PERMIT MODIFICATION.

LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- CHANNEL RELOCATION
- PERMIT BOUNDARY
- PROJECT STUDY AREA
- PROP MEDIAN BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD



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TRIBUTARY 39
 STREAM RELOCATION
 SHEET 66 OF 78

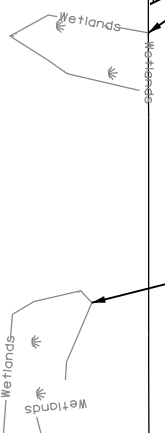
WETLAND CLEARING IMPACTS = 0 SF (0.00 AC)
 WETLAND FILL IMPACTS = 0 SF (0.00 AC)

IMPACTS THIS SHEET
 STREAM IMPACTS = 0 LF (0 SF) (0.00 AC)

STREAM RELOCATIONS = 275 LF (1,685 SF) (0.04 AC)
 TRIB 39 = 275 LF (1,685 SF) (0.04 AC)
 EXCAVATION IMPACTS = 0 SF (0.00 AC)

WETLAND 16
 NO IMPACTS

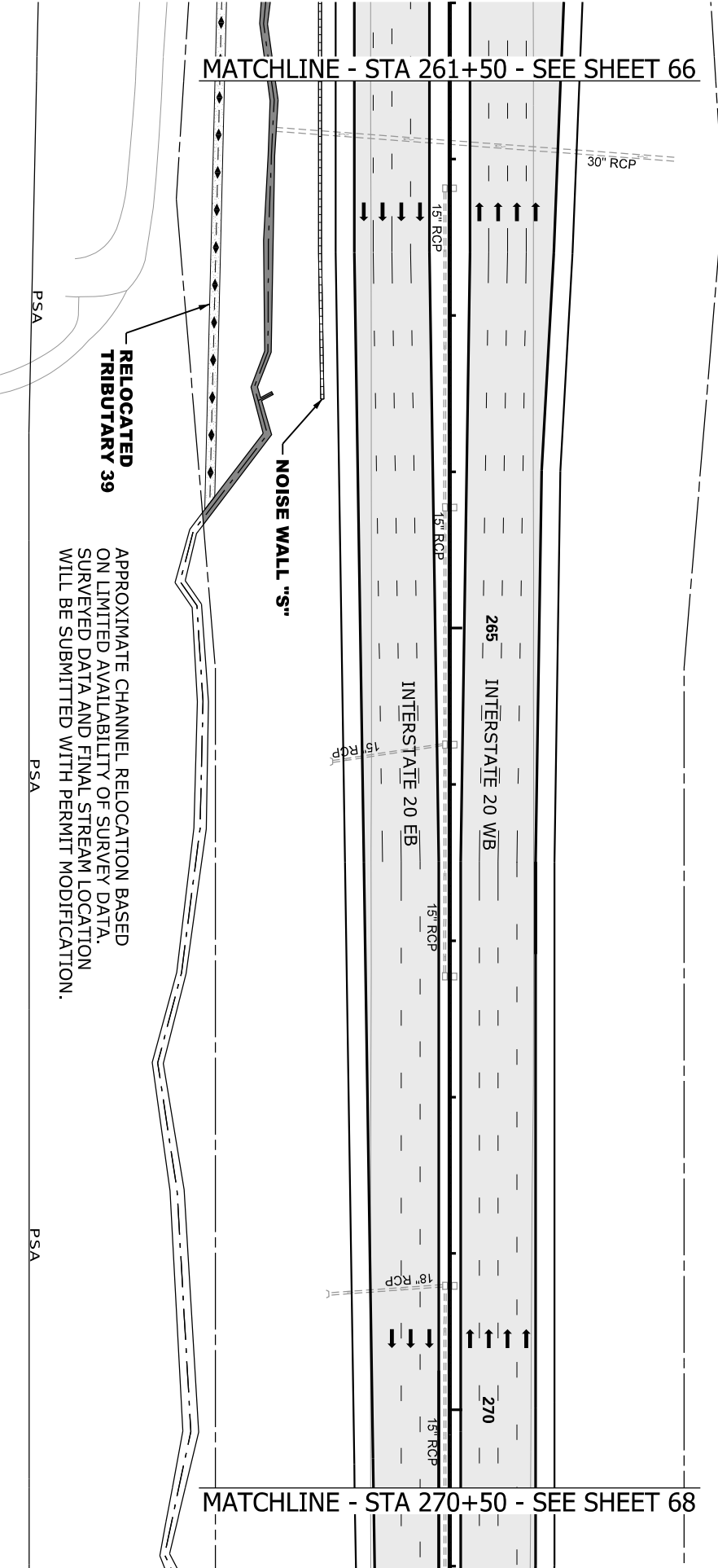
WETLAND 17
 NO IMPACTS



PERMITTED PLANS

MATCHLINE - STA 261+50 - SEE SHEET 66

MATCHLINE - STA 270+50 - SEE SHEET 68

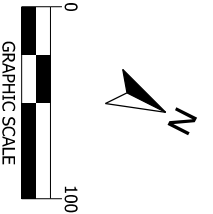


APPROXIMATE CHANNEL RELOCATION BASED ON LIMITED AVAILABILITY OF SURVEY DATA. SURVEYED DATA AND FINAL STREAM LOCATION WILL BE SUBMITTED WITH PERMIT MODIFICATION.

LEGEND

- EXCAVATION IMPACT
- WETLAND
- PROPOSED PAVEMENT
- IMPACTED STREAM
- PERMANENT FILL IMPACT
- CLEARING IMPACT
- CHANNEL RELOCATION
- PERMIT BOUNDARY
- PROJECT STUDY AREA
- PROP MEDIAN BARRIER WALL
- EXISTING ROAD
- EXISTING RAILROAD

CAROLINA CROSSROADS
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 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
 APPLICATION BY SCDOT
 NOVEMBER 6, 2019



PERMITTED PLANS

Table 2: Impact Summary

Feature	Delineated Area		Permitted Impacts		Sheet Number
	Linear Feet	Acres	Linear Feet	Acres	
			Fill	Clear	
Tributary 59	77	0.006	-	-	5
Tributary 60 aka Moccasin Branch	195	0.030	94	-	6
Tributary 2	273	0.029	166	-	7
Wetland 56	-	0.004	-	-	7
Wetland 57	-	0.075	-	0.02	7
Wetland 40	-	0.240	-	-	9
Tributary 3	440	0.046	198	-	10, 11
Wetland 1	-	0.045	-	-	10
Tributary 5	157	0.022	-	-	12
Wetland 3	-	0.014	-	-	12
Tributary 6	22	0.003	22	-	13
Tributary 7	970	0.130	283	-	14, 15
Wetland 42	-	0.262	-	-	14
Tributary 8	571	0.070	213	-	15
Wetland 43	-	0.034	-	-	15
Tributary 9	188	0.014	72	-	16
Wetland 44	-	0.040	-	0.04	17
Wetland 58	-	0.043	-	-	17
Tributary 10	186	0.028	-	-	18
Tributary 11	1,755	0.308	-	-	19, 20
Tributary 12	10	0.001	460	-	19
Wetland 4	-	0.020	-	0.01	19
Wetland 45	-	0.018	-	-	19
Tributary 13	14	0.001	-	-	20
Wetland 5	-	0.092	-	0.04	20

CAROLINA CROSSROADS
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Feature	Delineated Area		Linear Feet	Permitted Impacts		Sheet Number
	Linear Feet	Acres		Acres	Acres	
Tributary 14	195	0.035	49	-	-	21
Tributary 15	164	0.015	93	-	-	22
Wetland 46	-	0.051	-	-	-	22
Wetland 6	-	0.051	-	-	0.05	23
Tributary 16	99	0.007	87	-	-	24
Wetland 7	-	0.134	-	0.08	-	25
Wetland 47	-	0.070	-	0.01	-	25
Tributary 17	25	0.003	26	-	-	25
Wetland 8	-	0.330	-	0.15	-	26
Tributary 18	485	0.084	438	-	-	27
Tributary 19	166	0.017	142	-	-	27
Tributary 20	101	0.015	55	-	-	28
Tributary 21, aka Stoop Creek	1,281	0.594	760	-	-	29,30,57,58
Tributary 22	143	0.031	128	-	-	31
Tributary 41	517	0.107	337	-	-	32,33
Tributary 42	874	0.071	822	-	-	32, 33, 34
Wetland 51	-	0.017	-	-	-	33
Tributary 43	2,244	1.135	325	-	-	34,35,36
Wetland 20	-	0.046	-	0.05	-	34
Wetland 21	-	0.189	-	0.05	0.16	35
Wetland 22	-	0.579	-	0.48	0.10	36
Tributary 50	889	0.098	792	-	-	37
Tributary 52	35	0.002	35	-	-	37
Wetland 32	-	0.166	-	-	-	37
Wetland 33	-	0.085	-	0.02	-	37
Wetland 34	-	0.026	-	0.01	0.03	37

PERMITTED PLANS

CAROLINA CROSSROADS
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 LEXINGTON COUNTY, SC
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IMPACT SUMMARY

SHEET 70 OF 78

Feature	Delineated Area		Permitted Impacts		Sheet Number
	Linear Feet	Acres	Linear Feet	Acres	
Tributary 53, aka Senn Branch	933	0.279	187	-	38.39
Tributary 57	187	0.027	-	-	38.39
Wetland 35	-	0.470	-	-	38
Tributary 54	46	0.004	55	-	39
Tributary 55	70	0.005	70	-	39
Tributary 56	20	0.001	20	-	39
Wetland 36	-	0.168	-	0.01	39
Wetland 38	-	0.474	-	0.08	39
Wetland 23	-	2.483	-	0.09	40
Wetland 24	-	0.148	-	-	40
Wetland 25	-	1.537	-	0.24	41
Wetland 26	-	0.200	-	0.10	41
Tributary 44	229	0.021	123	-	41
Tributary 45	934	0.088	115	-	42.43
Wetland 28	-	0.181	--	0.06	42
Tributary 46	322	0.026	45	-	43
Wetland 27	-	0.470	-	0.07	43
Wetland 52	-	0.037	-	-	43
Wetland 53	-	2.483	-	-	43
Tributary 47	1,052	0.292	944	-	44.45
Tributary 48	29	0.010	28	-	-
Wetland 29	-	0.039	-	0.04	45
Wetland 54	-	0.021	-	0.03	45
Tributary 49	298	0.024	162	-	46
Wetland 30	-	0.311	-	0.31	46
Wetland 31	-	0.106	-	0.11	46

PERMITTED PLANS

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 LEXINGTON COUNTY, SC
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IMPACT SUMMARY

SHEET 71 OF 78

Feature	Delineated Area		Permitted Impacts		Sheet Number
	Linear Feet	Acre	Linear Feet	Acre	
Tributary 65	205	0.041	-	-	47
Tributary 66	60	0.004	-	-	47
Wetland 55	-	0.015	-	-	47
Tributary 71	191	0.01	-	-	48
Tributary 72	11	0.002	-	-	48
Wetland 60	-	0.123	-	-	49
Wetland 48	-	0.029	-	-	50
Tributary 69	19	0.003	-	-	50
Tributary 61	124	0.029	148	-	51
Tributary 27	752	0.112	539	-	52,53
Tributary 28	153	0.032	-	-	52
Tributary 29	56	0.007	-	-	52
Tributary 30 aka Saluda River	555	3.471	-	-	52
Tributary 31	76	0.008	-	-	52
Wetland 9	-	0.358	-	0.03	53
Wetland 10	-	0.05	-	0.05	53
Wetland 11	-	0.800	-	0.32	53
Wetland 12	-	0.057	-	0.02 0.04	53
Tributary 24	323	0.035	323	-	54
Tributary 25	94	0.011	95	-	54
Tributary 26	295	0.022	26	-	54
Tributary 23	1,031	0.141	751	-	55,56
Wetland 49	-	0.017	-	0.01	56
Tributary 34	382	0.043	382	-	57
Tributary 32	70	0.008	71	-	58

PERMITTED PLANS

CAROLINA CROSSROADS
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 APPLICATION BY SCDOT
 JULY 15, 2020



IMPACT SUMMARY

SHEET 72 OF 78

Feature	Delineated Area		Permitted Impacts Linear Feet	Acres		Sheet Number
	Linear Feet	Acres		Fill	Clear	
Tributary 33	101	0.010	101	-	-	58
Wetland 14	-	0.024	-	0.01	-	59
Tributary 35	522	0.052	152	-	-	60
Tributary 36	76	0.005	90	-	-	60
Tributary 37	372	0.034	220	-	-	60
Wetland 13	-	0.066	-	0.07	-	60
Wetland 15	-	0.091	-	0.09	-	60
Tributary 38	342	0.064	260	-	-	61,62
Wetland 50	-	0.371	-	0.31	-	63
Tributary 39	3,958	0.753	170	-	-	64
Tributary 39	3,958	0.753	2,295	-	-	65,66,67,68
Wetland 16	-	0.041	-	-	-	67
Wetland 17	-	0.393	-	-	-	67,68
Wetland 18	-	0.251	-	-	0.24	68
Wetland 19	-	0.015	-	-	-	68
Impact Totals			12,969	2.76	1.66	

PERMITTED PLANS

CAROLINA CROSSROADS
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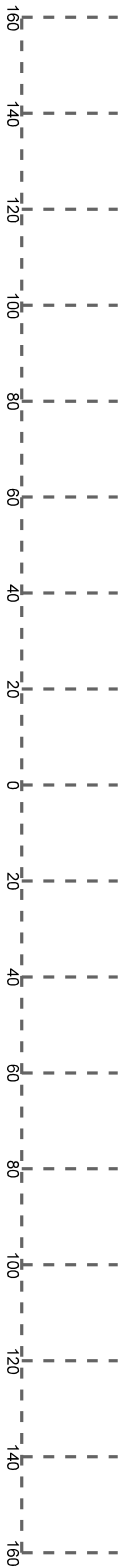
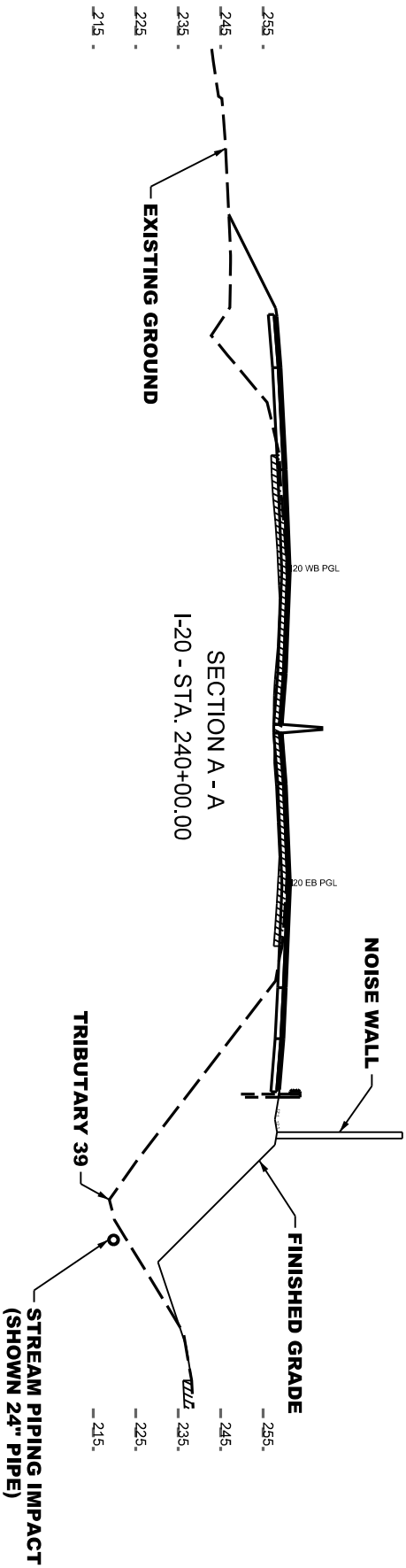


IMPACT SUMMARY

SHEET 73 OF 78

EXAMPLE STREAM PIPING IMPACT

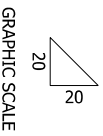
PERMITTED PLANS



REPRESENTATIVE SECTION SHOWN.
 FINAL CROSS SECTIONS WILL BE PROVIDED
 WITH FINAL DESIGN AND PERMIT MODIFICATION

LEGEND

-  PERMANENT FILL IMPACT
-  RIGHT OF WAY LINE



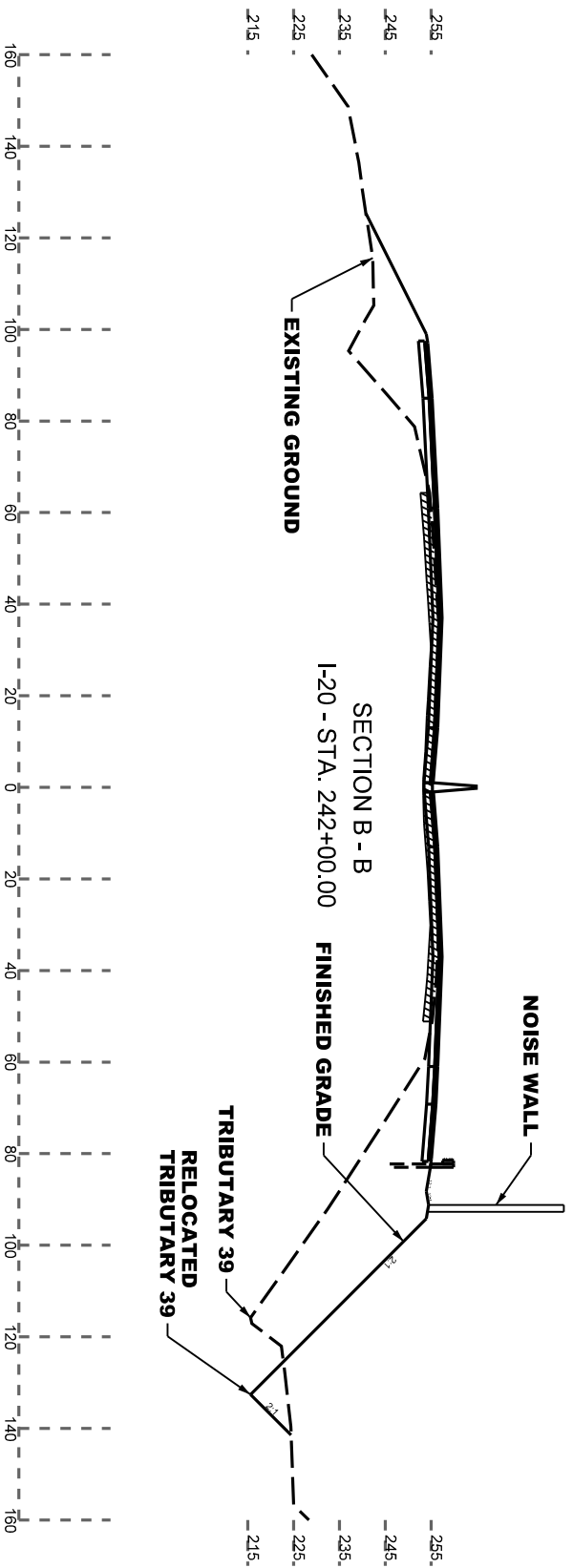
GRAPHIC SCALE

CAROLINA CROSSROADS
 PROJECT ID NO. P027662
 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
 APPLICATION BY SCDOT
 NOVEMBER 6, 2019



EXAMPLE TRIBUTARY RELOCATION

PERMITTED PLANS



REPRESENTATIVE SECTION SHOWN.
 FINAL CROSS SECTIONS WILL BE PROVIDED
 WITH FINAL DESIGN AND PERMIT MODIFICATION

LEGEND

-  PERMANENT FILL IMPACT
-  RIGHT OF WAY LINE



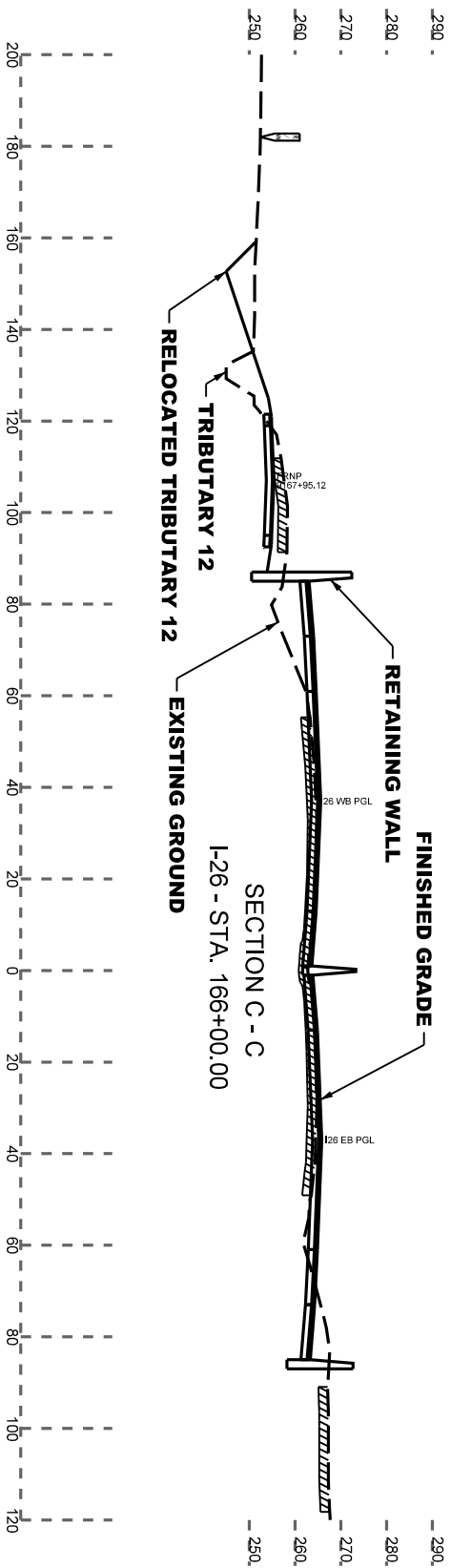
GRAPHIC SCALE

CAROLINA CROSSROADS
 PROJECT ID NO. P027662
 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
 APPLICATION BY SCDOT
 NOVEMBER 6, 2019



EXAMPLE TRIBUTARY RELOCATION

PERMITTED PLANS



REPRESENTATIVE SECTION SHOWN.
 FINAL CROSS SECTIONS WILL BE PROVIDED
 WITH FINAL DESIGN AND PERMIT MODIFICATION

LEGEND

 PERMANENT FILL IMPACT

 RIGHT OF WAY LINE



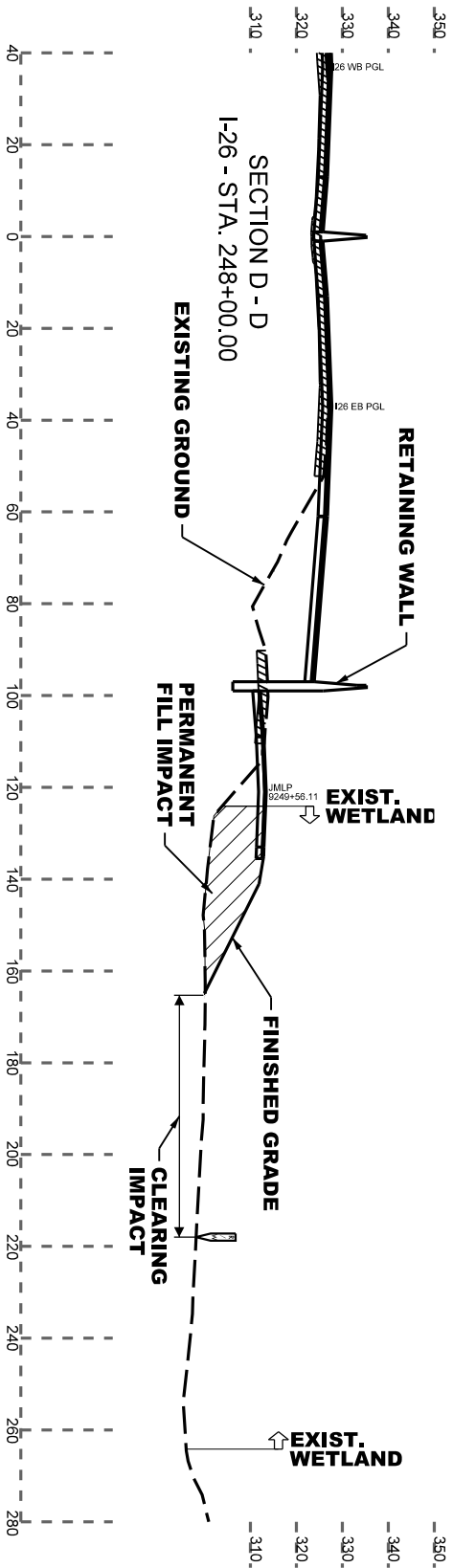
GRAPHIC SCALE

CAROLINA CROSSROADS
 PROJECT ID NO. P027662
 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
 APPLICATION BY SCDOT
 NOVEMBER 6, 2019



EXAMPLE WETLANDS IMPACT

PERMITTED PLANS

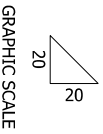


REPRESENTATIVE SECTION SHOWN.
 FINAL CROSS SECTIONS WILL BE PROVIDED
 WITH FINAL DESIGN AND PERMIT MODIFICATION

LEGEND

PERMANENT FILL IMPACT

RIGHT OF WAY LINE

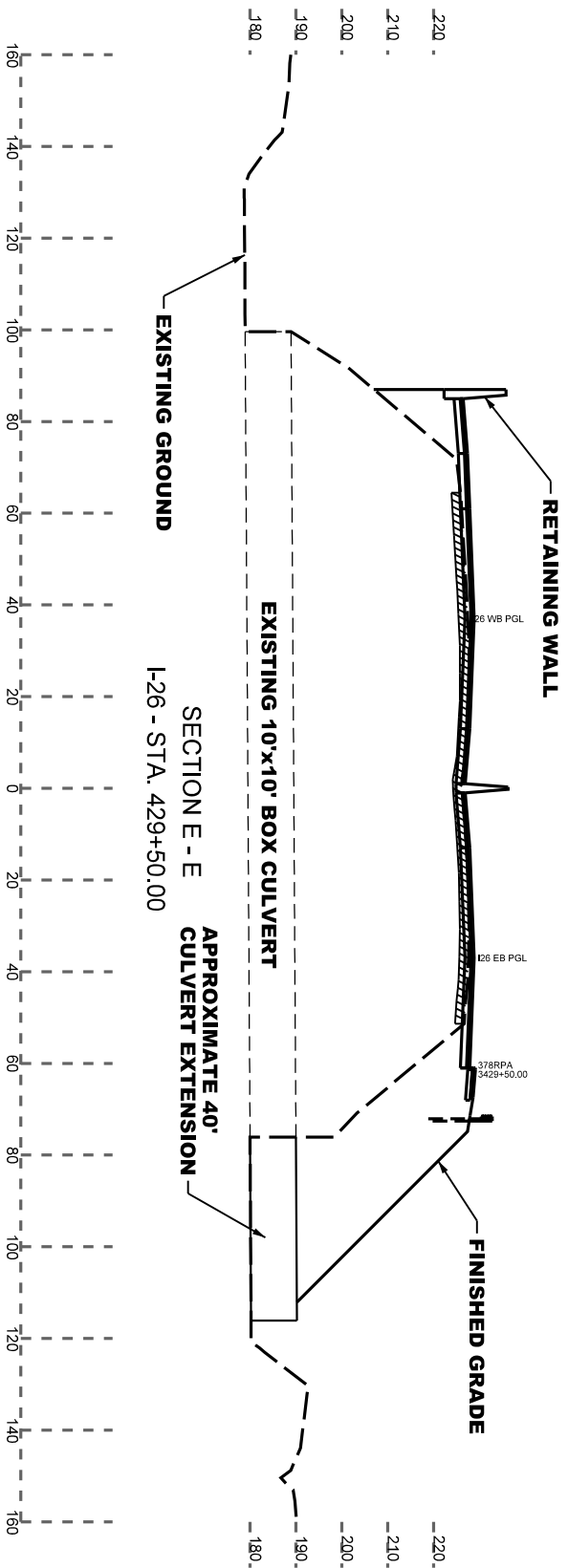


CAROLINA CROSSROADS
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 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
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 NOVEMBER 6, 2019



EXAMPLE CULVERT/PIPE EXTENSION

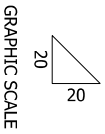
PERMITTED PLANS



REPRESENTATIVE SECTION SHOWN.
 FINAL CROSS SECTIONS WILL BE PROVIDED
 WITH FINAL DESIGN AND PERMIT MODIFICATION

LEGEND

-  PERMANENT FILL IMPACT
-  RIGHT OF WAY LINE



CAROLINA CROSSROADS
 PROJECT ID NO. P027662
 RICHLAND COUNTY, SC
 LEXINGTON COUNTY, SC
 APPLICATION BY SCDOT
 NOVEMBER 6, 2019



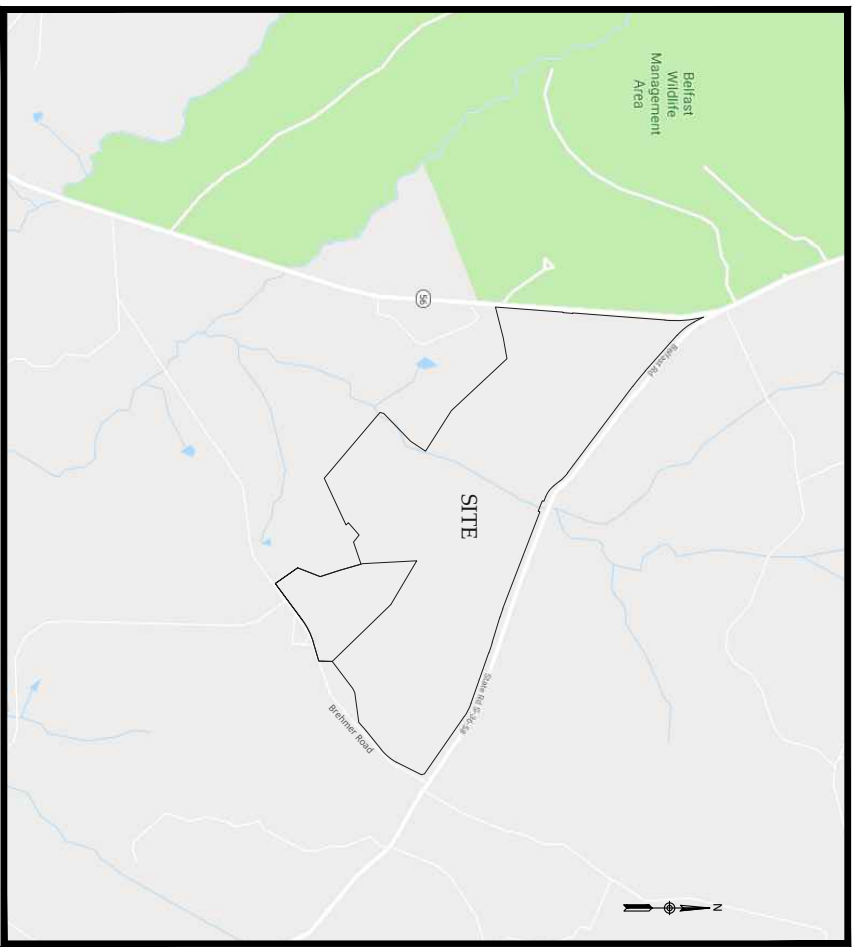
Carolina Crossroads Mitigation Site - PH Timber Tract

Newberry County, South Carolina

for

South Carolina Department of Transportation

Newberry County, SC



Vicinity Map
Not to Scale



PERMITTED PLANS

Pre-Construction Notification Figures
05.20.2020

Sheet Index

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Impact Typical Section Off-line Channel Construction	1.8
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Project Directory

Engineering: Wildlands Engineering, Inc License No. F-3966 497 Bramson Ct, Ste. 104 Mount Pleasant, SC 29464 Daniel Johnson, MBA, PE, PH 843-277-6221	Owner: SCDOT 955 Park Street PO Box 191 Columbia, SC 29201-3959
Surveying: IPW Construction Group, LLC 7623 Dorchester Rd. N. Charleston, SC 29418 M. Hart Weatherford, PE, PLS, CFM 843-308-0524	



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Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

Title Sheet

Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

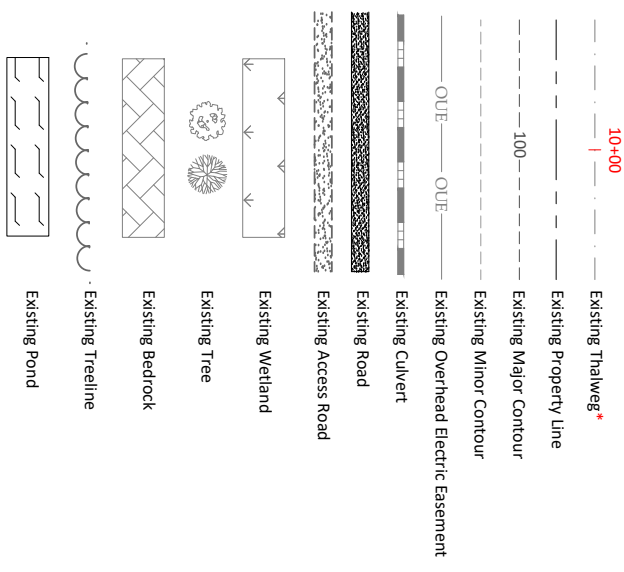
1.1

- GENERAL NOTES:**
1. SEDIMENT AND EROSION CONTROL PRACTICES SHALL COMPLY WITH THE SOUTH CAROLINA DHEC BMP HANDBOOK, CURRENT EDITION.
 2. THE CONTRACTOR WILL INSTALL PUMP-AROUND SYSTEMS AS A SEDIMENT AND EROSION CONTROL PRACTICE. UNTIL THE DISTURBED WORK AREA IS STABILIZED IN ACCORDANCE WITH THE PLANS, IF FLOW IS NOT SUFFICIENT AT THE TIME OF CONSTRUCTION TO CAUSE SEDIMENTATION TO DOWNSCREEN WATERS, PUMP-AROUND OPERATIONS MAY NOT BE REQUIRED, AS DETERMINED BY THE ENGINEER. IN THESE CASES, ROCK CHECK DAMS WILL BE IMPLEMENTED IN ACCORDANCE WITH SPAING AND PLACEMENT REQUIREMENTS OUTLINED IN THE SOUTH CAROLINA DHEC BMP HANDBOOK.
 3. TREES DEPicted WITHIN THE LIMITS OF DISTURBANCE AND NOT PROTECTED WITH SAFETY FENCING MAY BE HARVESTED AND USED FOR IN-STREAM STRUCTURES (E.G., BRUSH TOE OR LOG SILL) AT THE DIRECTION OF THE ENGINEER.
 4. ON-SITE ROCK WILL BE SALVAGED AND STOCKPILED FOR REUSE. ROCK SHALL BE REUSED IN ACCORDANCE WITH THE APPLICABLE MATERIAL SPECIFICATIONS HEREIN AND AS DIRECTED BY THE ENGINEER.
 5. UPON COMPLETION OF STABILIZATION ACTIVITIES WITHIN ACTIVE WORK AREAS, TEMPORARY HAUL ROADS WILL BE REMOVED AND GRADED TO FINISH GRADE AS SHOWN ON THE PLANS AS DIRECTED BY THE ENGINEER. FINISH GRADE HAUL ROAD AREAS WILL BE DISKED OR RIPPEd TO A MINIMUM DEPTH OF 18 INCHES, RAKED AND SEEDED TO FACILITATE STABILIZATION. NO ADDITIONAL USE OF RIPPEd/DISKED AND SEEDED HAUL ROADS WILL BE PERMITTED.

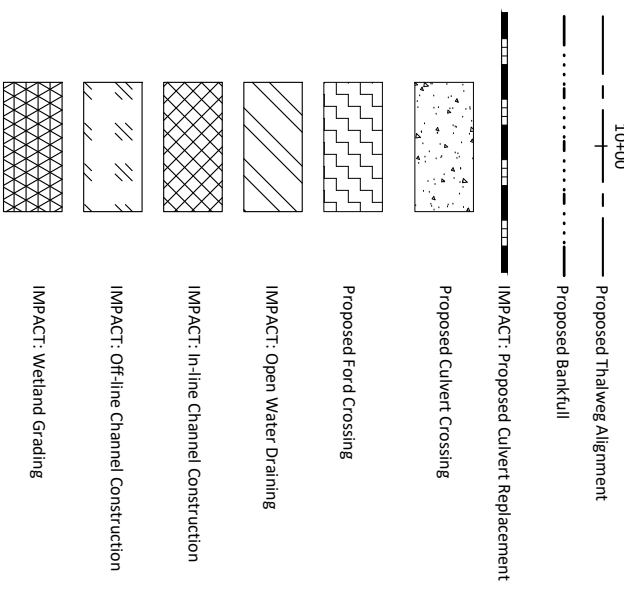
- CONSTRUCTION SEQUENCE:**
- THE CONSTRUCTION SEQUENCE OUTLINED BELOW REPRESENTS GENERAL CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL MEASURES AND DETAILED MEASURES TO FACILITATE THE CONSTRUCTION OF THE SITE. PRIOR TO LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DETAILED SEQUENCE OF CONSTRUCTION. THIS SEQUENCE WILL INCLUDE THE PROPOSED CONSTRUCTION SEQUENCE FOR EACH RESTORATION AREA, GENERAL TIMELINE FOR COMPLETION AND STABILIZATION OF EACH REACH AND ANY PROPOSED HAUL ROADS OR STOCKPILE AREAS THAT MAY DEVIATE FROM THE PLANS HEREIN. THE ENGINEER WILL REVIEW THIS CONSTRUCTION SCHEDULE FOR COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE SITE AND APPLICABLE PERMIT REQUIREMENTS. THE CONTRACTOR WILL NOT COMMENCE LAND DISTURBING ACTIVITIES OR MOBILIZATION PRIOR TO APPROVAL OF THE CONSTRUCTION SEQUENCE BY THE ENGINEER.
1. CONTRACTOR SHALL COMMENCE CONSTRUCTION SEQUENCE SHALL AT A MINIMUM, INCLUDE THE FOLLOWING:
 1. CONTRACTOR SHALL CONTACT SOUTH CAROLINA 811 PRIOR TO SITE MOBILIZATION.
 2. INSTALL PERIMETER SEDIMENT AND EROSION CONTROL MEASURES AS SHOWN ON THE PLANS INCLUDING CONSTRUCTION ENTRANCES, STAGING AND STOCKPILE AREAS, TEMPORARY ACCESS ROADS, SILT FENCE, TREE PROTECTION FENCING, CHECK DAMS, AND TEMPORARY STREAM CROSSINGS.
 3. SET UP TEMPORARY FACILITIES AND MOBILIZE EQUIPMENT AND MATERIALS TO THE SITE. PLACE IMPORTED MATERIALS WITHIN THE LIMITS OF THE PROTECTED STOCKPILE AREAS.
 4. MATERIAL HARVESTED FROM EXISTING CHANNEL SHALL BE MAINTAINED FOR REUSE ON-SITE.
 5. INSTALL AND MAINTAIN ON-SITE RAIN GAUGE AND LOG BOOKS FOR NPDES AND SWPPP PERMIT REQUIREMENTS IN ACCORDANCE WITH THE ON-SITE SWPPP. THE ON-SITE SWPPP MUST BE EXECUTED AND MAINTAINED ON-SITE FOR THE DURATION OF PROJECT ACTIVITIES.
 6. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF EACH WORK DAY TO ENSURE THEY ARE FUNCTIONING IN ACCORDANCE WITH THE SWPPP AND PLANS HEREIN. ANY DEFICIENCIES SHALL BE REPAIRED IMMEDIATELY.
 7. IN-STREAM WORK SHALL COMMENCE FROM UPSTREAM TO DOWNSCREEN UNLESS OTHERWISE DIRECTED BY THE ENGINEER TO PRECLUDE THE TRANSPORT OF SEDIMENT TO RESTORED SECTIONS OF THE STREAM.
 8. WHEN WORKING IN A LIVE WATERCOURSE A PUMP-AROUND SYSTEM IS REQUIRED. INSTALL IMPERVIOUS DIKES UPSTREAM AND DOWNSCREEN OF THE PUMP-AROUND LOCATIONS. THE PUMP-AROUND OPERATION SHALL BE PERFORMED BETWEEN THESE DIKE LOCATIONS. THE PUMP-AROUND SYSTEM SHALL BE IN PLACE PRIOR TO CLEARING AND GRUBBING ACTIVITIES WITHIN THE WORK ZONE.
 9. PERFORM ANY NECESSARY CLEARING AND GRUBBING IN PHASES AS WORK PROGRESSES. BANK VEGETATION AND VEGETATION IMMEDIATELY ADJACENT TO LIVE CHANNELS SHALL BE LEFT UNDISTURBED AS LONG AS POSSIBLE.
 10. THE TOP 6 INCHES OF TOPSOIL WITHIN THE LIMITS OF CLEARING SHALL BE STRIPPED AND STOCKPILED ON-SITE FOR REUSE UPON ACHIEVEMENT OF FINISH GRADE. WHERE BEDROCK OR UNSUITABLE SOIL CONDITIONS EXIST TO PREVENT TOPSOIL STRIPPING, THE ENGINEER SHALL DIRECT THE CONTRACTOR TO THE LIMITS OF TOPSOIL TO BE

11. REMOVED. TOPSOIL SHALL BE STRIPPED AS WORK PROGRESSES. MASS STRIPPING OF TOPSOIL IS NOT PERMITTED.
12. PERFORM EXCAVATION AND GRADING OF CHANNEL AND FLOODPLAIN.
13. STOCKPILE EXCAVATED SOIL AS NECESSARY. THE CONTRACTOR WILL ENSURE THAT EROSION AND SEDIMENT CONTROL PRACTICES ARE PROPERLY INSTALLED AND FUNCTIONING IN STOCKPILE AREAS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN (SWPPP).
14. CONSTRUCT IN-STREAM STRUCTURES AND INSTALL RIFFLE AND POOL FEATURES ACCORDING TO PLANS, DETAILS, AND SPECIFICATIONS AS CONSTRUCTION PROGRESSES.
15. PRIOR TO PERFORMING RESTORATION ACTIVITIES ON UT7, THE POND AT THE UPPER LIMITS OF THE WORK AREA SHALL BE MANUALLY BREACHED AND DRAINED THROUGH SILT BAGS PRIOR TO STREAM CONSTRUCTION. DISCHARGE THROUGH THE BREACH MUST BE CONTROLLED TO PREVENT DOWNSCREEN SEDIMENT DISCHARGE.
16. SEED AND MAT BANKS AND FLOODPLAIN AREAS ACCORDING TO THE PLANS AND DETAILS.
17. ONCE DISTURBED AREAS AND EXPOSED SLOPES ARE STABILIZED, REMOVE PUMP-AROUND SYSTEM, IF USED, AND MOVE TO THE NEXT PHASE OF CONSTRUCTION.
18. BACKFILL ABANDONED CHANNEL SECTIONS WITH STOCKPILED SOIL. ALL NON-NATIVE, INVASIVE SPECIES SHALL BE TREATED AND/OR REMOVED FROM THE OLD CHANNEL PRIOR TO BACKFILLING.
19. SEED AND MULCH OR SOD ANY BACKFILL SECTIONS BEFORE PROCEEDING TO NEXT PHASE.
20. ONCE ALL PHASES OF CHANNEL AND FLOODPLAIN GRADING ARE COMPLETE, PREPARE THE FLOODPLAIN FOR PLANTING PER THE SPECIFICATIONS.
21. APPLY PERMANENT SEED AND PLANT VEGETATION IN THE FLOODPLAIN.
22. SEED AND STABILIZE STAGING AREAS AND STOCKPILE AREAS.
23. ONCE PERMANENT SEED IS ESTABLISHED, MINIMUM 70% COVERAGE AND APPROVAL FROM THE ENGINEER, REMOVE TEMPORARY STREAM CROSSINGS, STOCKPILE AREAS, AND SEDIMENT AND EROSION CONTROL PRACTICES. NO SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN PRIOR APPROVAL FROM ENGINEER.
24. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS, AND ANY LEFTOVER CONSTRUCTION MATERIALS PRIOR TO DEMOBILIZATION.
25. DEMOBILIZE EQUIPMENT FROM THE SITE.
26. DEMOBILIZE ALL EQUIPMENT, OFFICES, BUILDINGS, AND OTHER FACILITIES ASSEMBLED ON THE SITE.

Existing Features



Proposed Features



*THE EXISTING THALWEG STATIONING WAS UTILIZED FOR STREAM IMPACT QUANTIFICATIONS

PERMITTED PLANS

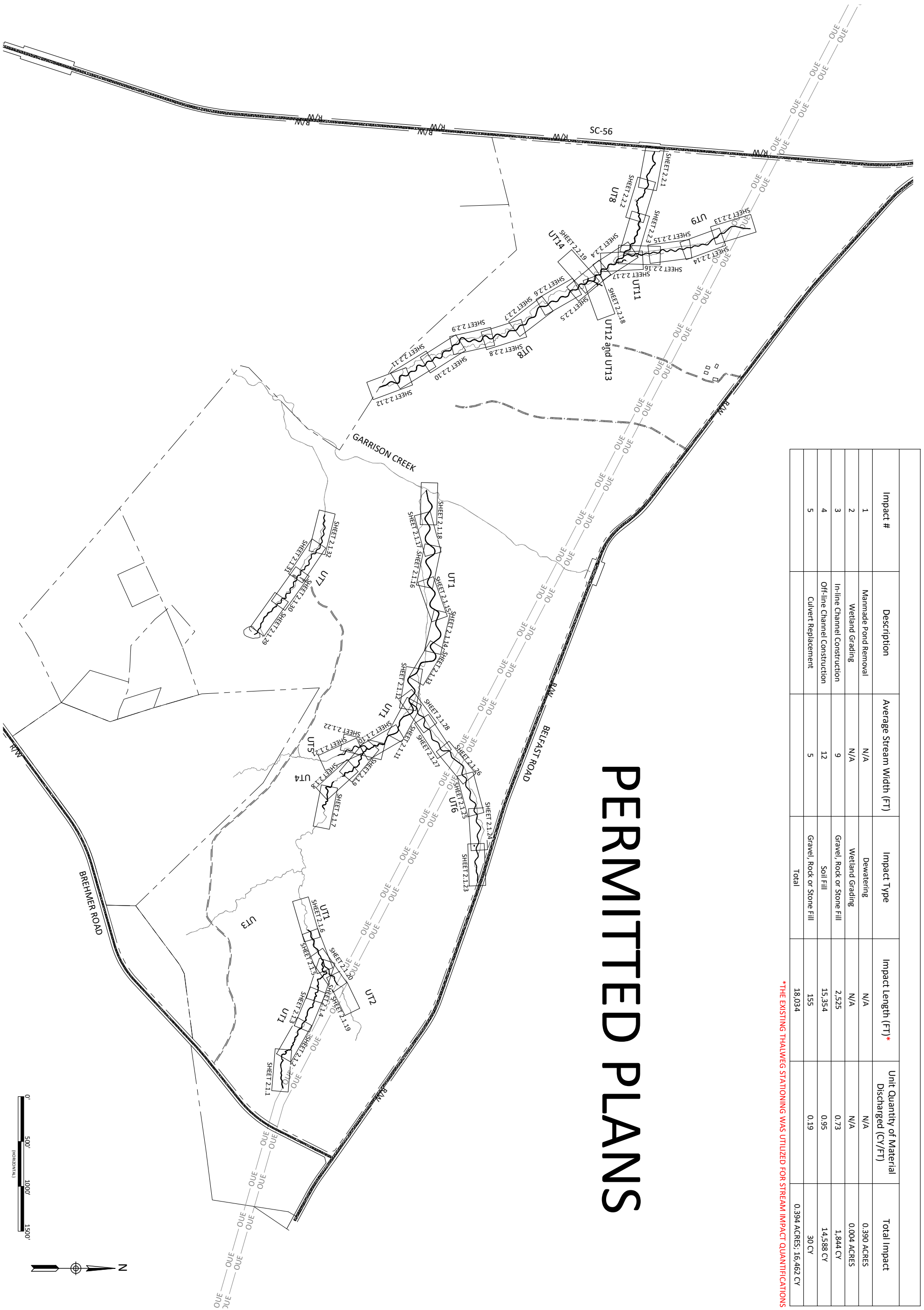
Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

Revisions:	

Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina
 General Notes and Legend

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497 Bramson Ct, Suite 104
 Mount Pleasant, SC 29464
 Tel: 843.277.6221
 Fax: 843.212.2101



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT) *	Unit Quantity of Material Discharged (CV/FT)	Total Impact
1	Mannate Pond Removal	N/A	Dewatering	N/A	N/A	0.390 ACRES
2	Wetland Grading	N/A	Wetland Grading	N/A	N/A	0.004 ACRES
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	2,535	0.73	1,844 CV
4	Off-line Channel Construction	12	Soil Fill	15,354	0.95	14,588 CV
5	Culvert Replacement	5	Gravel, Rock or Stone Fill	155	0.19	30 CV
			Total	18,034		0.394 ACRES; 16,462 CV

*THE EXISTING THALWEGS STATIONING WAS UTILIZED FOR STREAM IMPACT QUANTIFICATIONS

Carolina Crossroads Mitigation Site - PH Timber Tract Newberry County, South Carolina

Project Overview and Impact Table

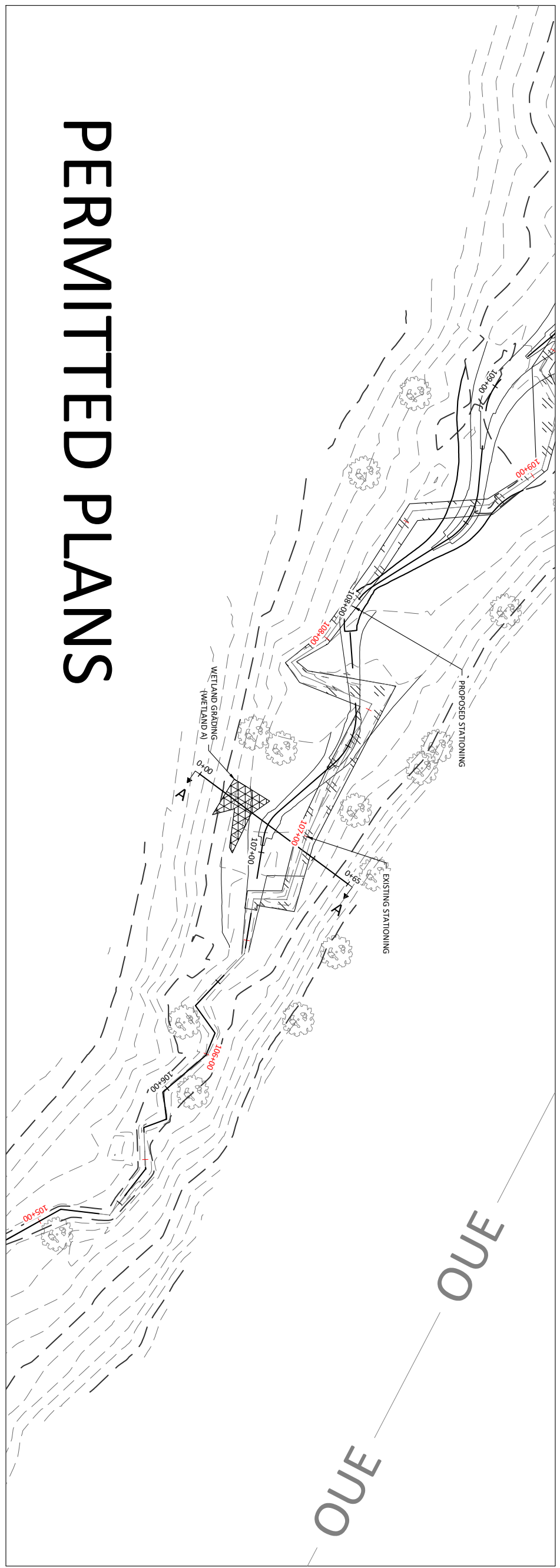
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Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

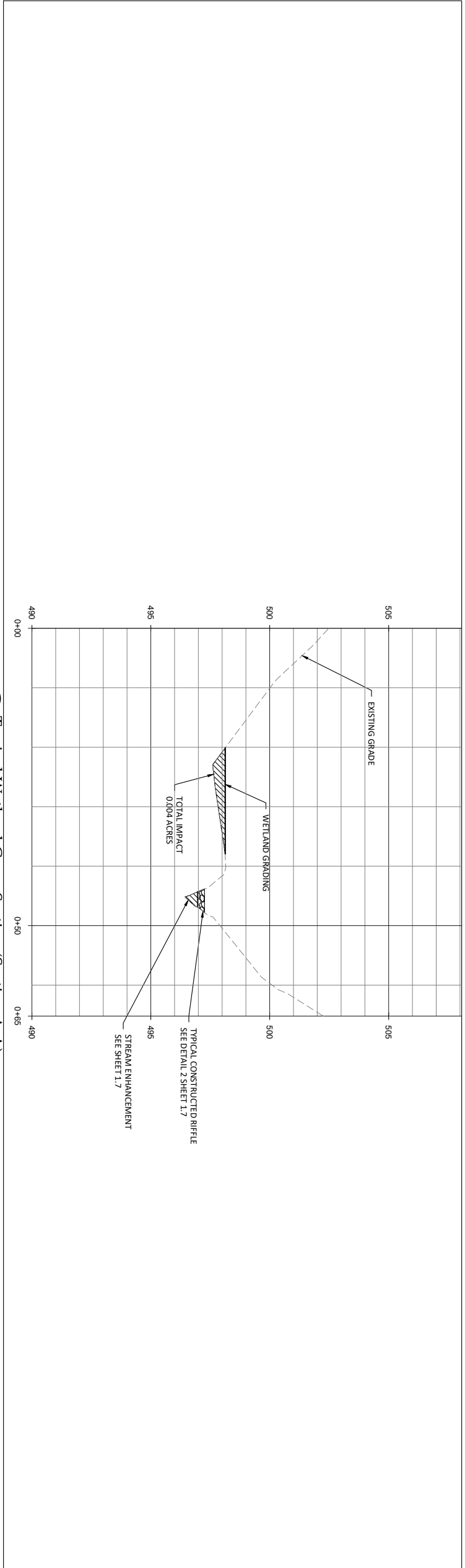
Revisions:

1.5



PERMITTED PLANS

Impact Cross Section	Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
A-A	2	Wetland Grading	N/A	Wetland Grading	N/A	N/A	0.004 ACRES



1.6 Typical Wetland Cross Section (Section A-A)
Not to Scale

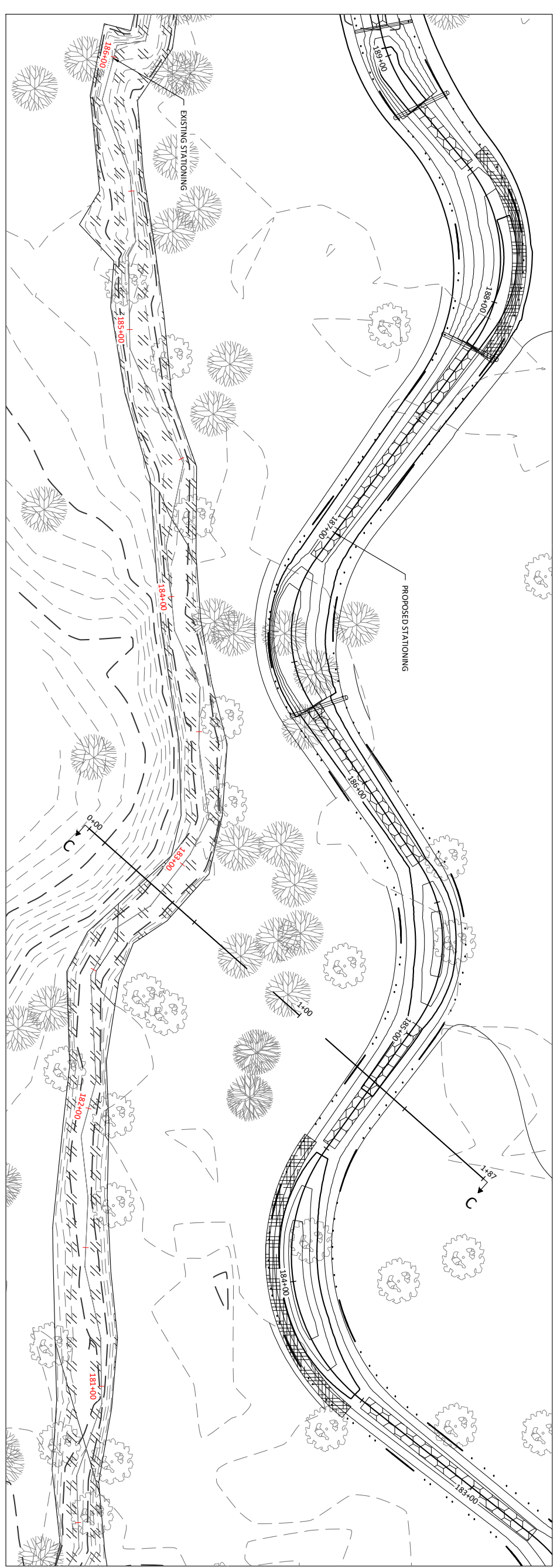
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 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

Revisions:

Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina
 Impact Typical Section - Wetland

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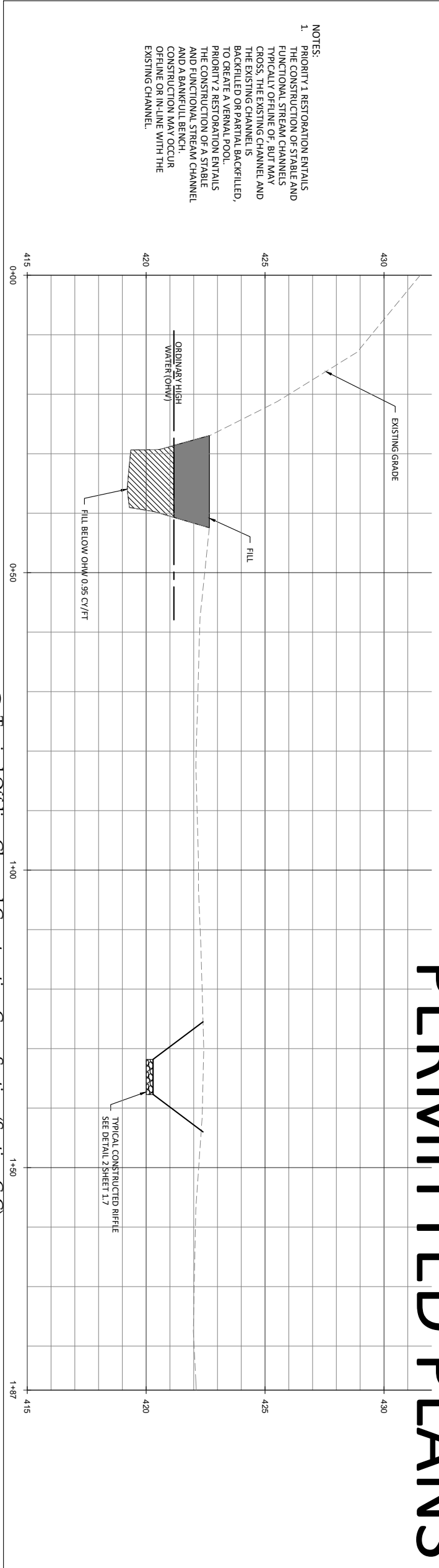
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 ENGINEERING
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 Mount Pleasant, SC 29464
 Tel: 843.277.6221
 Fax: 843.212.2101



Impact Cross Section	Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)*	Unit Quantity of Material Discharged (CV/FT)	Total Impact
Typical C-C	4	Off-line Channel Construction	12	Soil fill	15,354	0.95	14,588 CV

*THE EXISTING THALWEG STATIONING WAS UTILIZED FOR STREAM IMPACT QUANTIFICATIONS

PERMITTED PLANS



- NOTES:
- PRIORITY 1 RESTORATION ENTAILS THE CONSTRUCTION OF STABLE AND FUNCTIONAL STREAM CHANNELS TYPICALLY OFF-LINE OF, BUT MAY CROSS, THE EXISTING CHANNEL AND THE EXISTING CHANNEL IS BACKFILLED OR PARTIAL BACKFILLED, TO CREATE A VERNAL POOL. PRIORITY 2 RESTORATION ENTAILS THE CONSTRUCTION OF A STABLE AND FUNCTIONAL STREAM CHANNEL AND A BANKFULL BENCH. CONSTRUCTION MAY OCCUR OFF-LINE OR IN-LINE WITH THE EXISTING CHANNEL.

1.8 Typical Off-line Channel Construction Cross Section (Section C-C)
1.8 Not to Scale

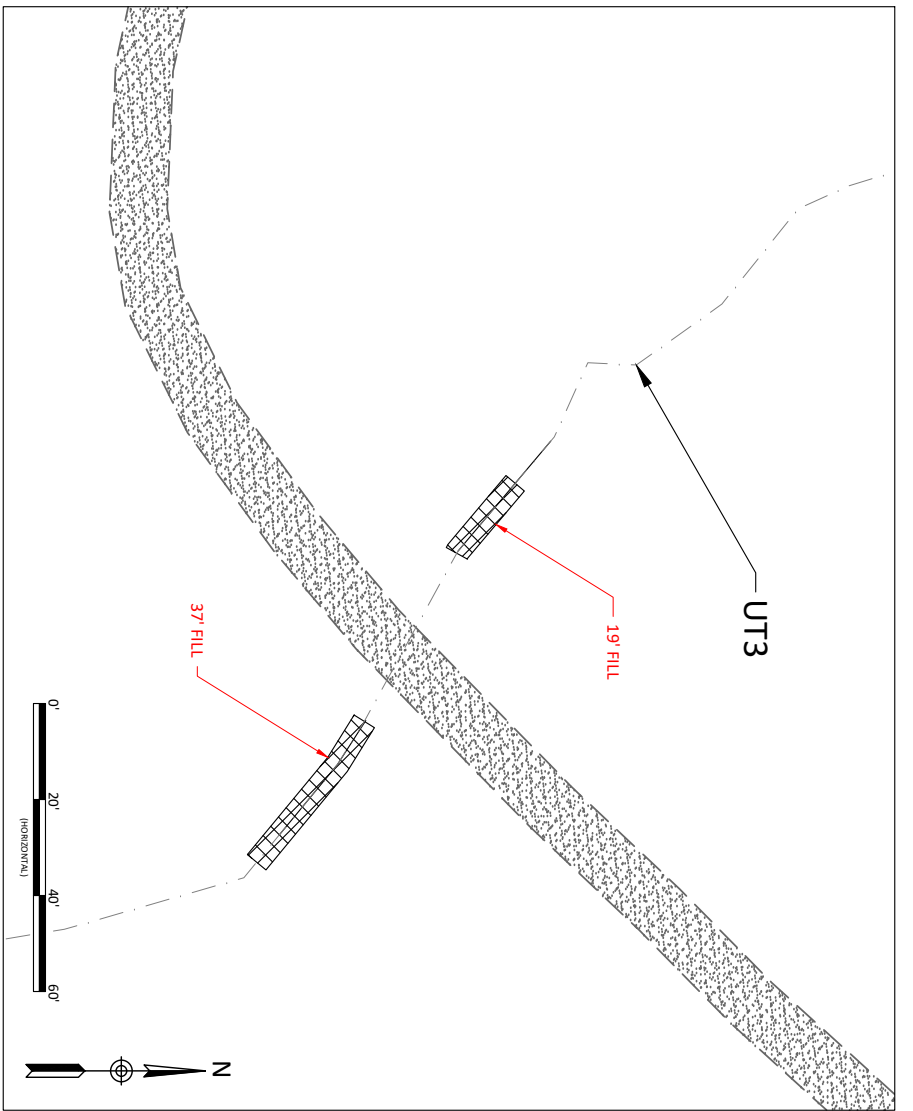
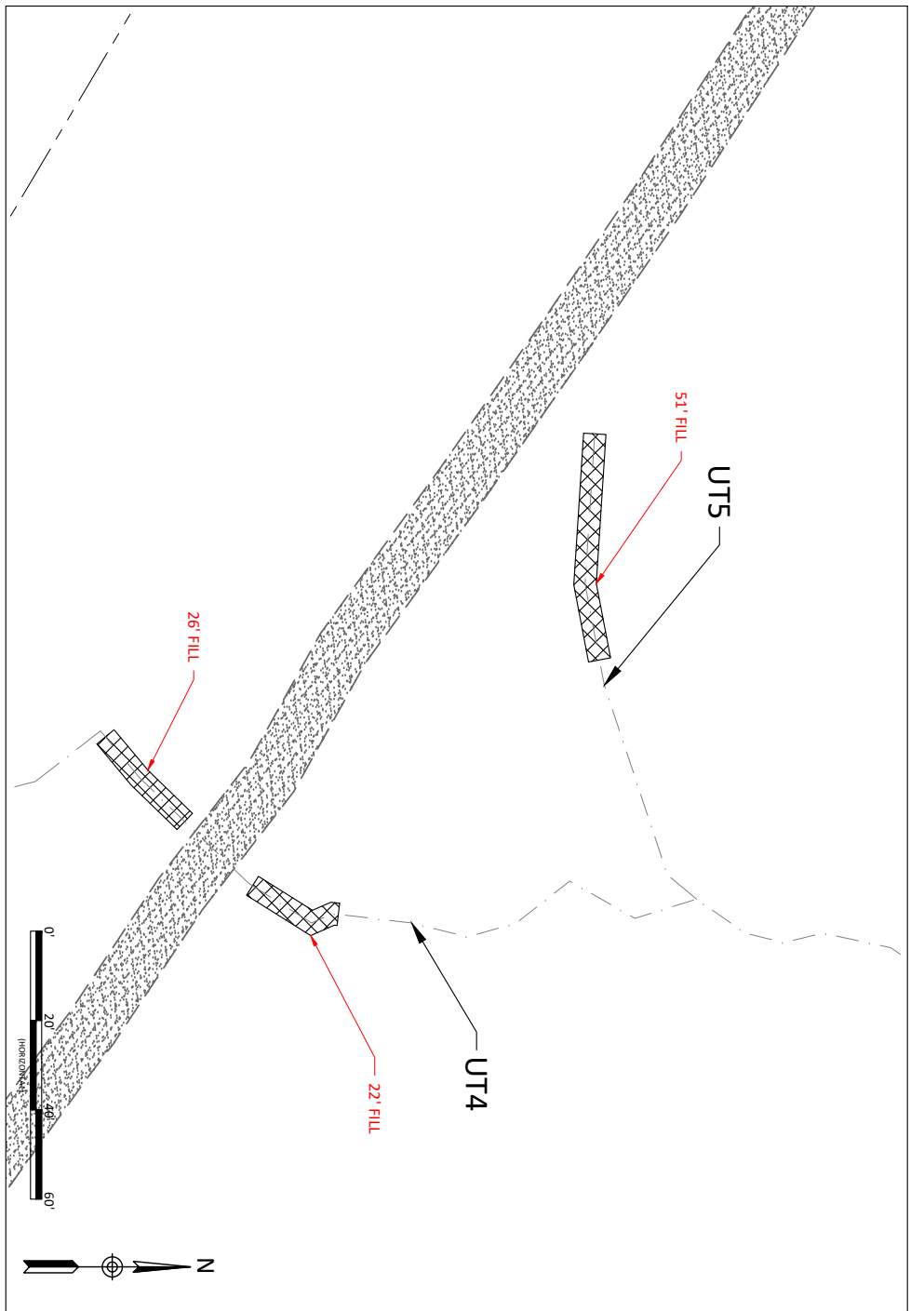
Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

Revisions:

Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina
 Impact Typical Section - Off-line Channel Construction

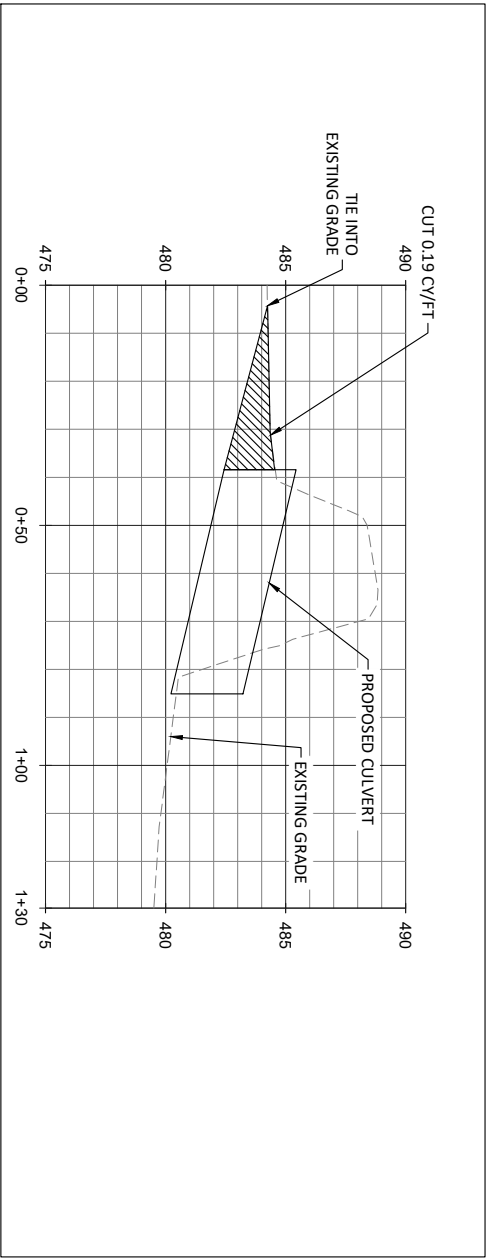
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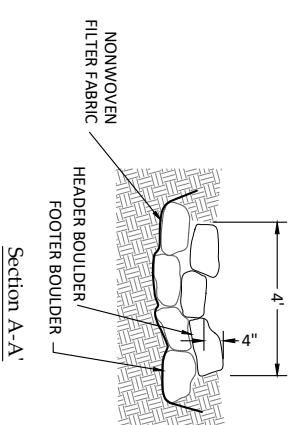
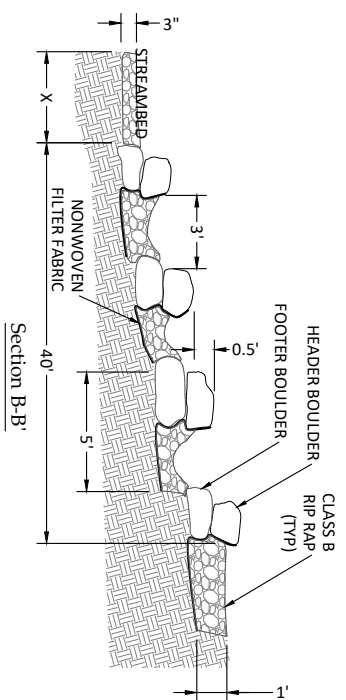
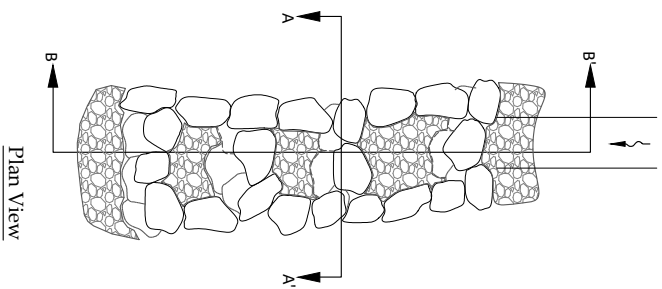


Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
5	Culvert Replacement	5	Gravel, Rock or Stone Fill	155	0.19	30 CV

PERMITTED PLANS



1 Typical Culvert Cross Section
1.9 Not to Scale



2 Rock Cascade with Pools
1.9 Not to Scale

Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

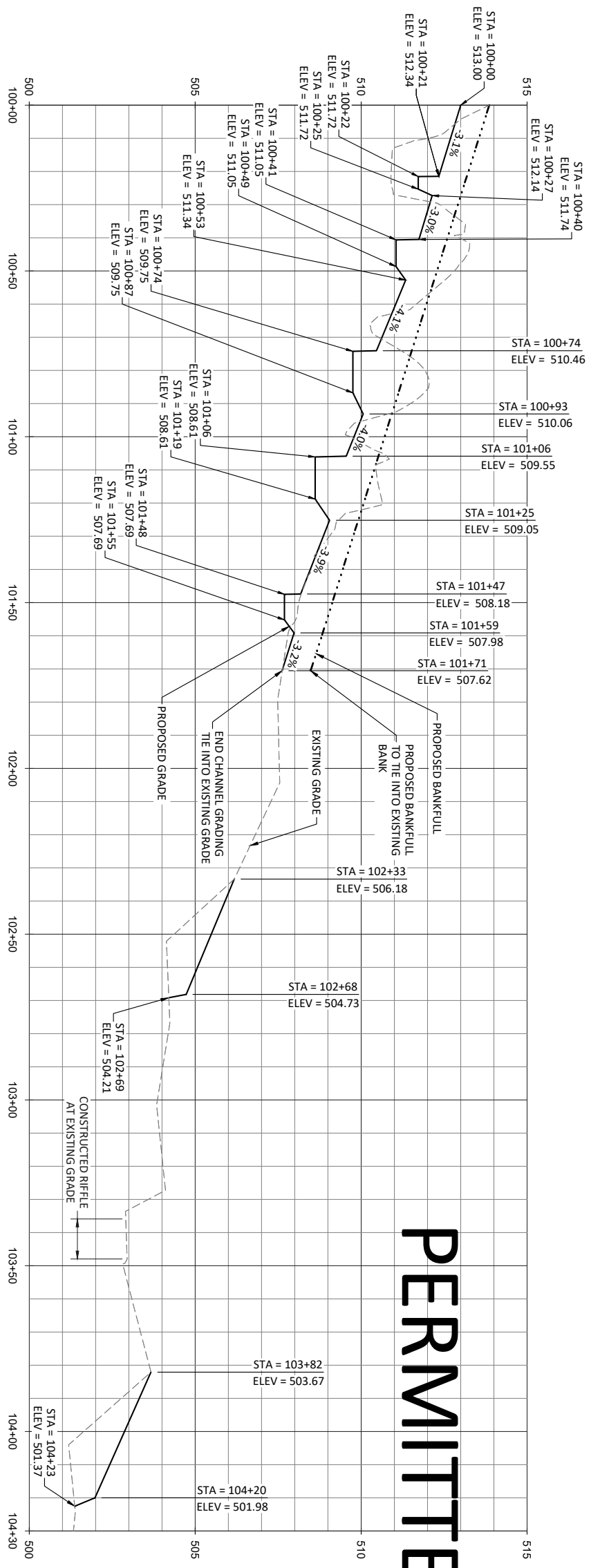
Impact Typical - Culverts

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Tel: 843.277.6221
Fax: 843.212.2101

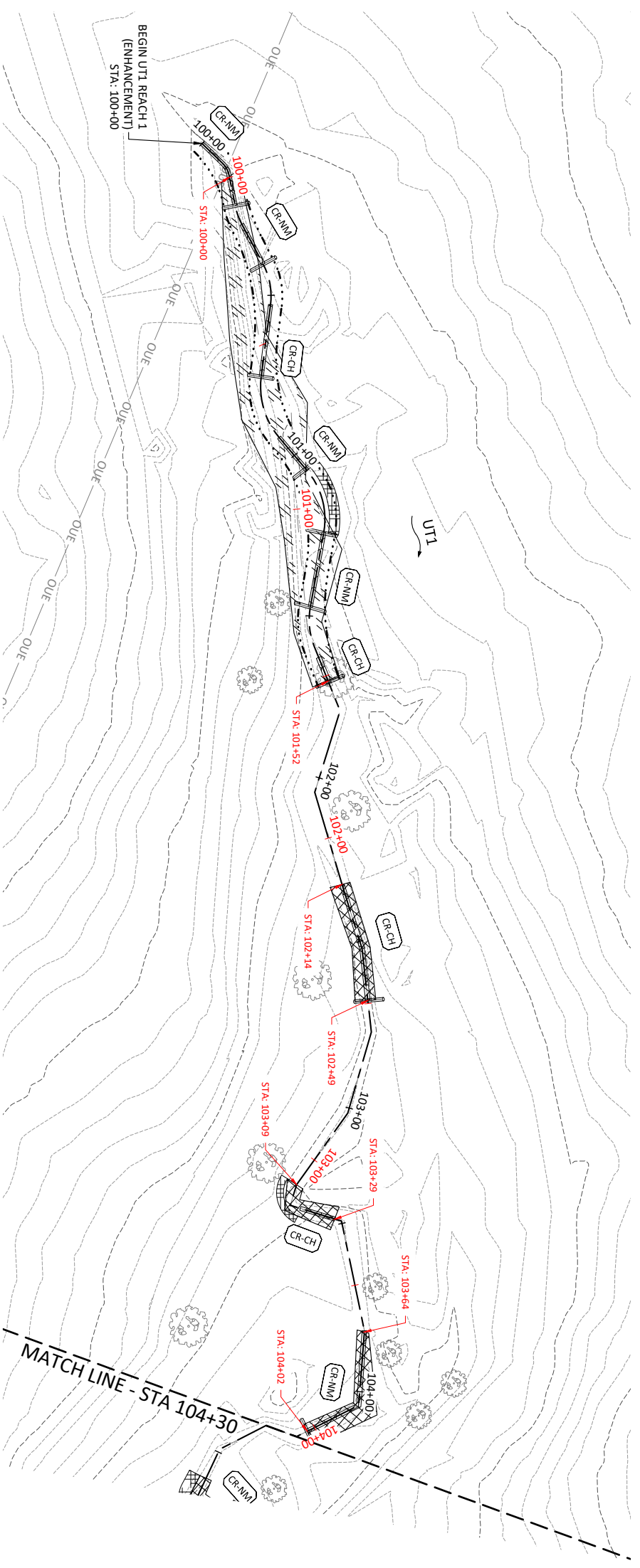
Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

1.9

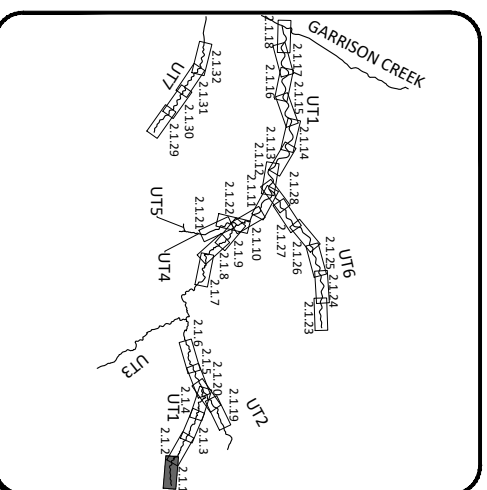


PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	93	0.73	68 CV
4	Off-line Channel Construction	12	Soil Fill	152	0.95	144 CV



NOTE: THE EXISTING THALWEG STATIONING WAS UTILIZED FOR STREAM IMPACT QUANTIFICATIONS



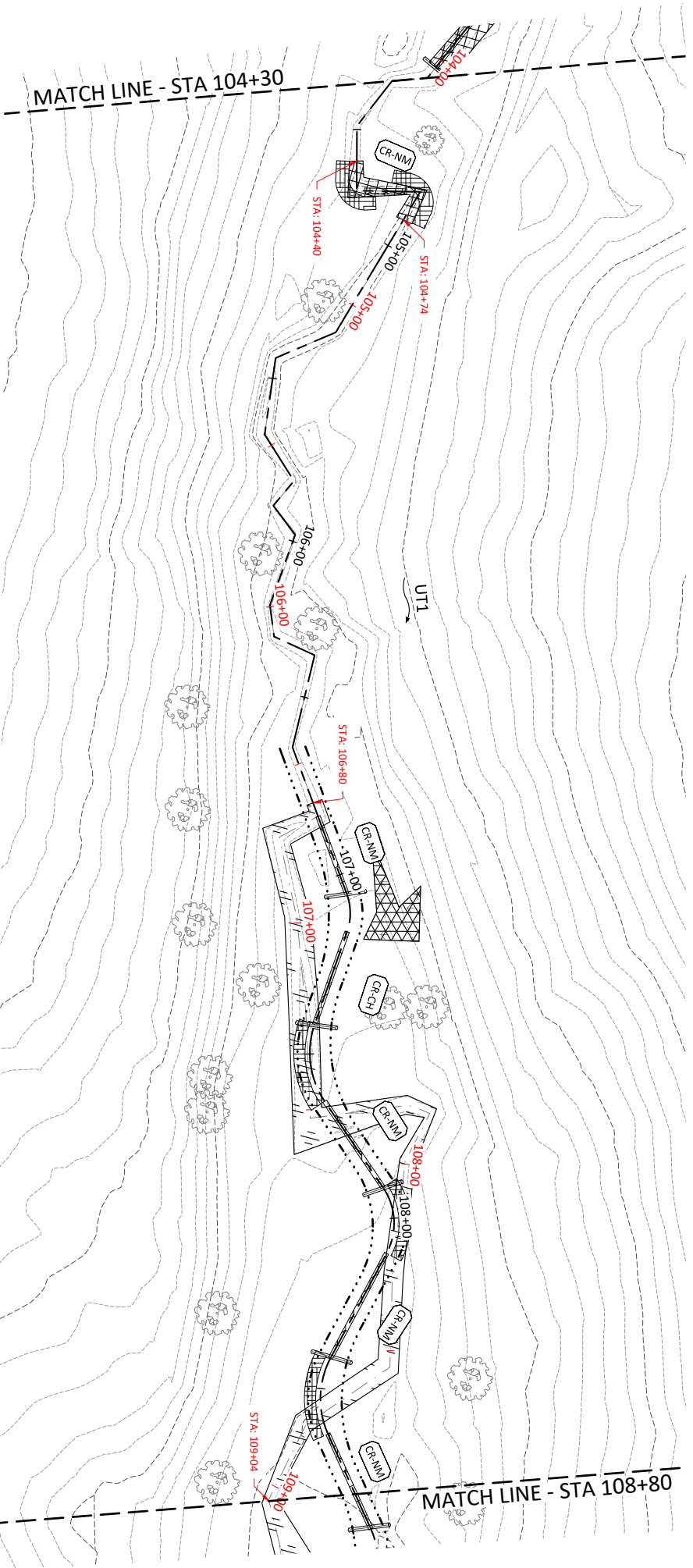
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Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

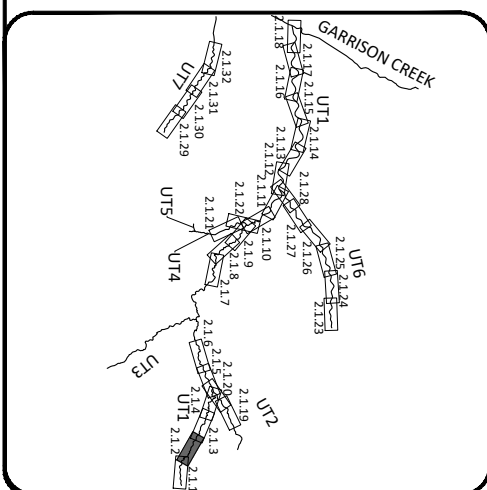
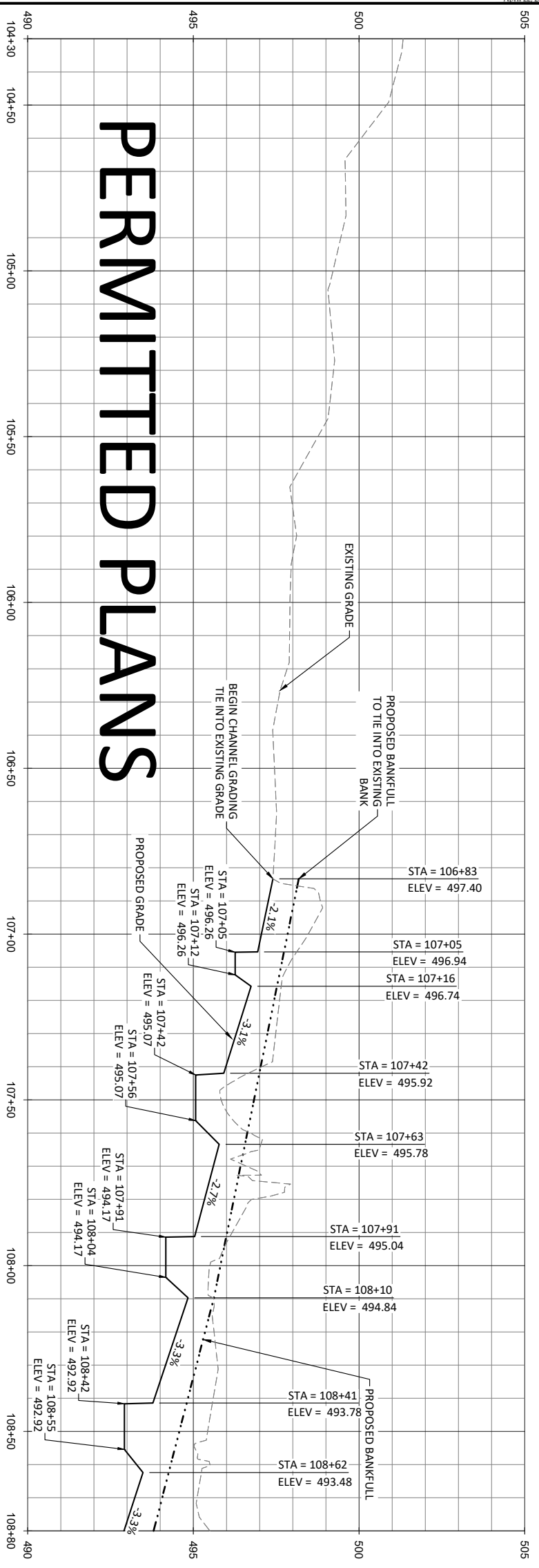
UT1 Reach 1
 PCN

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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
2	Wetland Grading	N/A	Wetland Grading	N/A	N/A	0.004 ACRES
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	34	0.73	25 CY
4	Off-line Channel Construction	12	Soil Fill	224	0.95	213 CY



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

Revisions:

2.1.2

Sheet

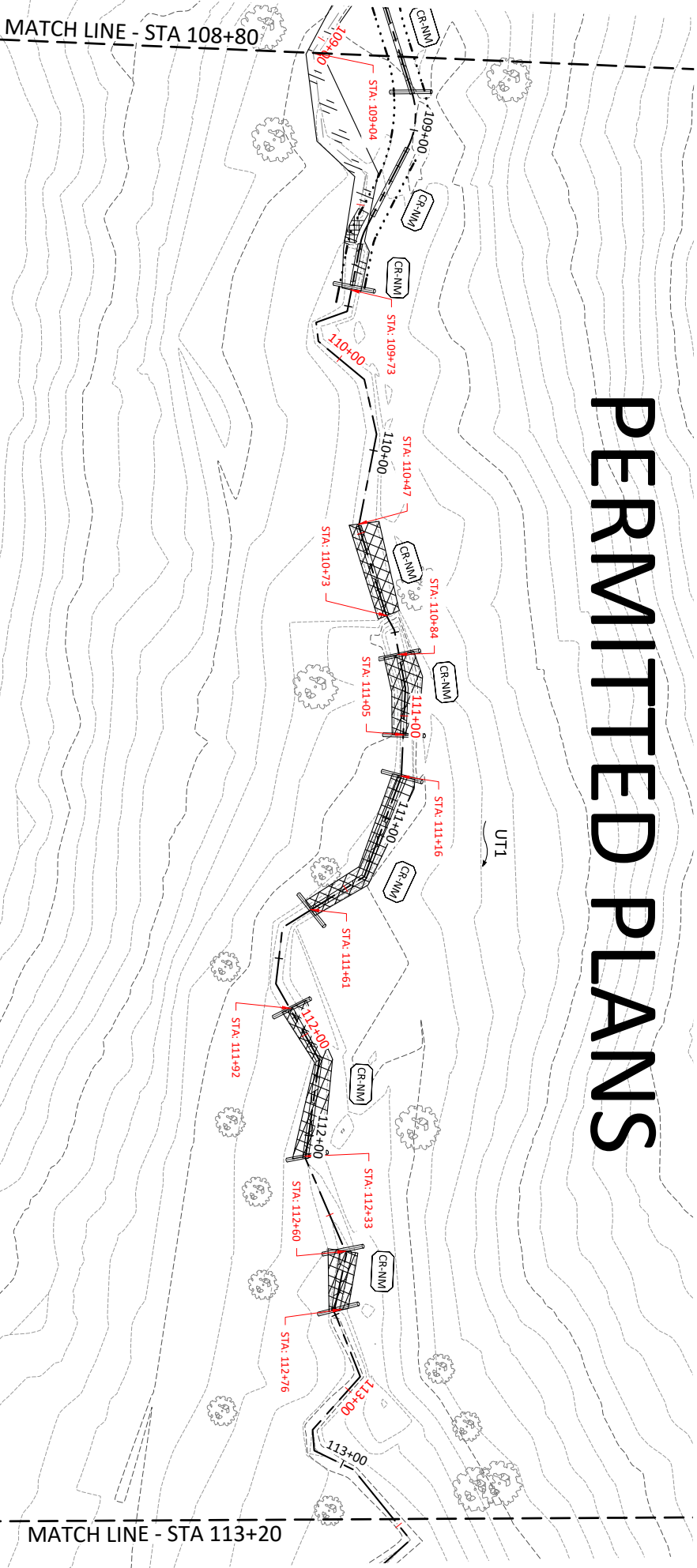
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT1 Reach 1
 PCN

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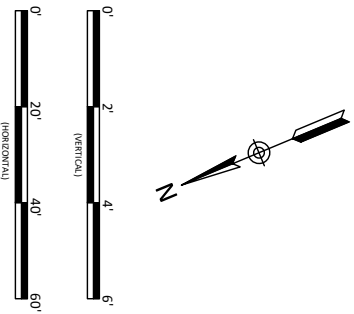
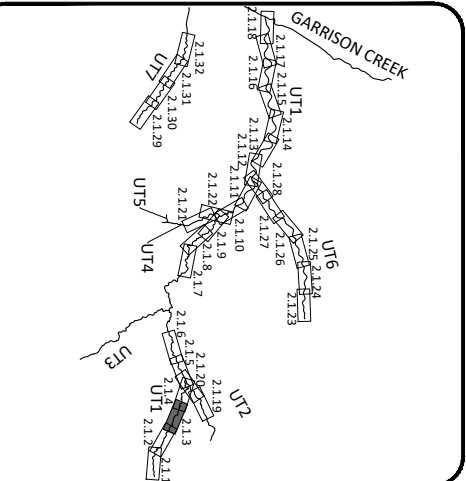
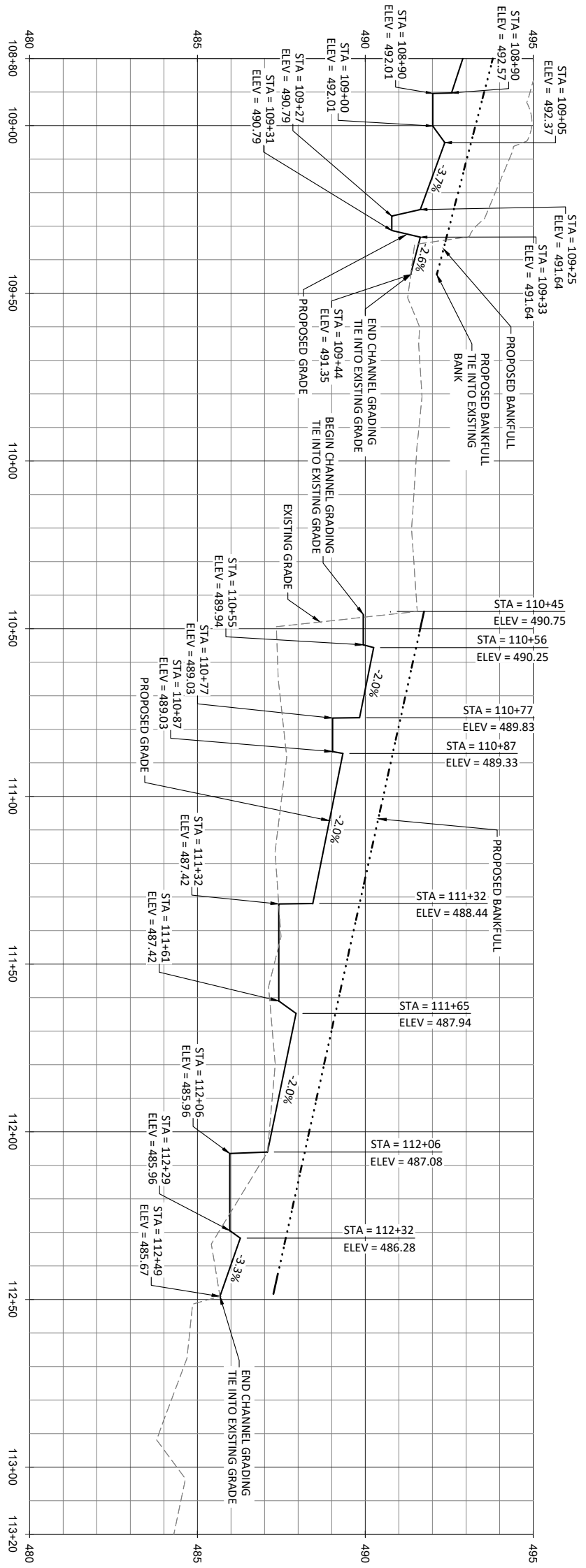


MATCH LINE - STA 113+20

MATCH LINE - STA 108+80

PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	149	0.73	109 CY
4	Offline Channel Construction	12	Soil Fill	69	0.95	66 CY



Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

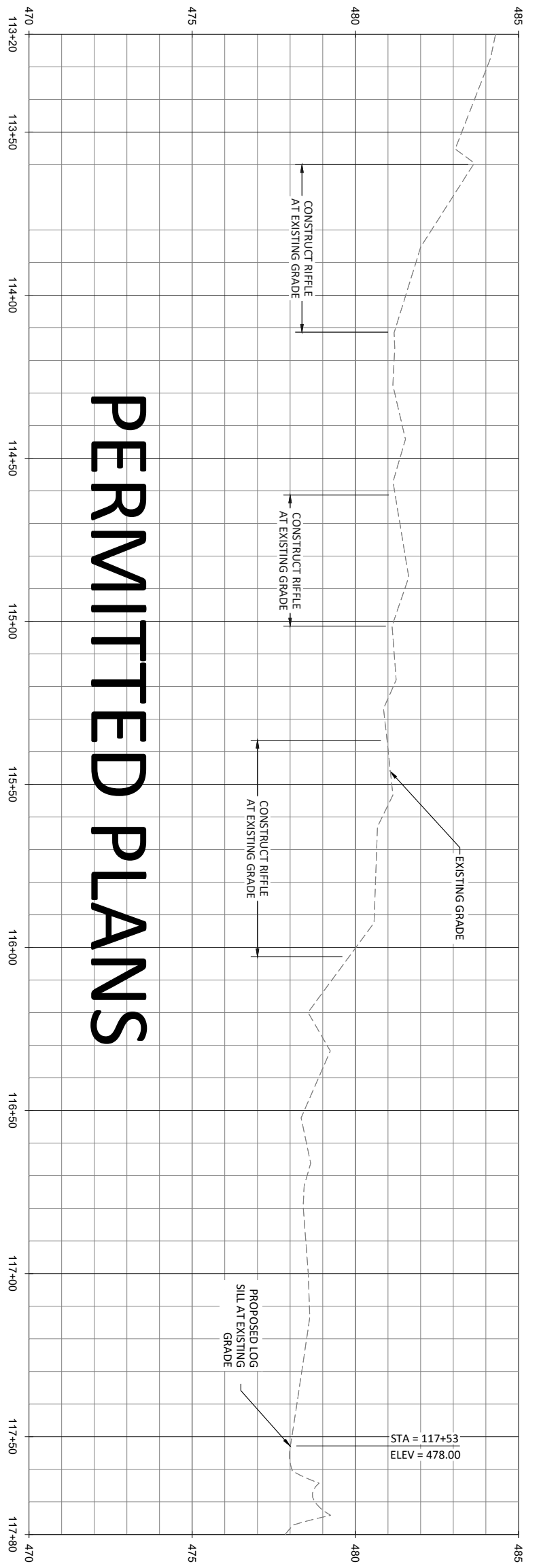
UT1 Reach 1
PCN

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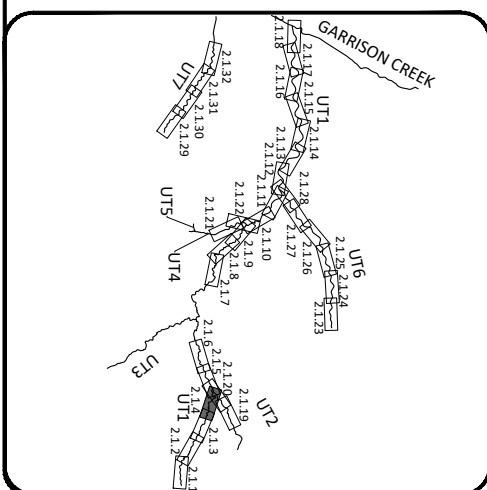
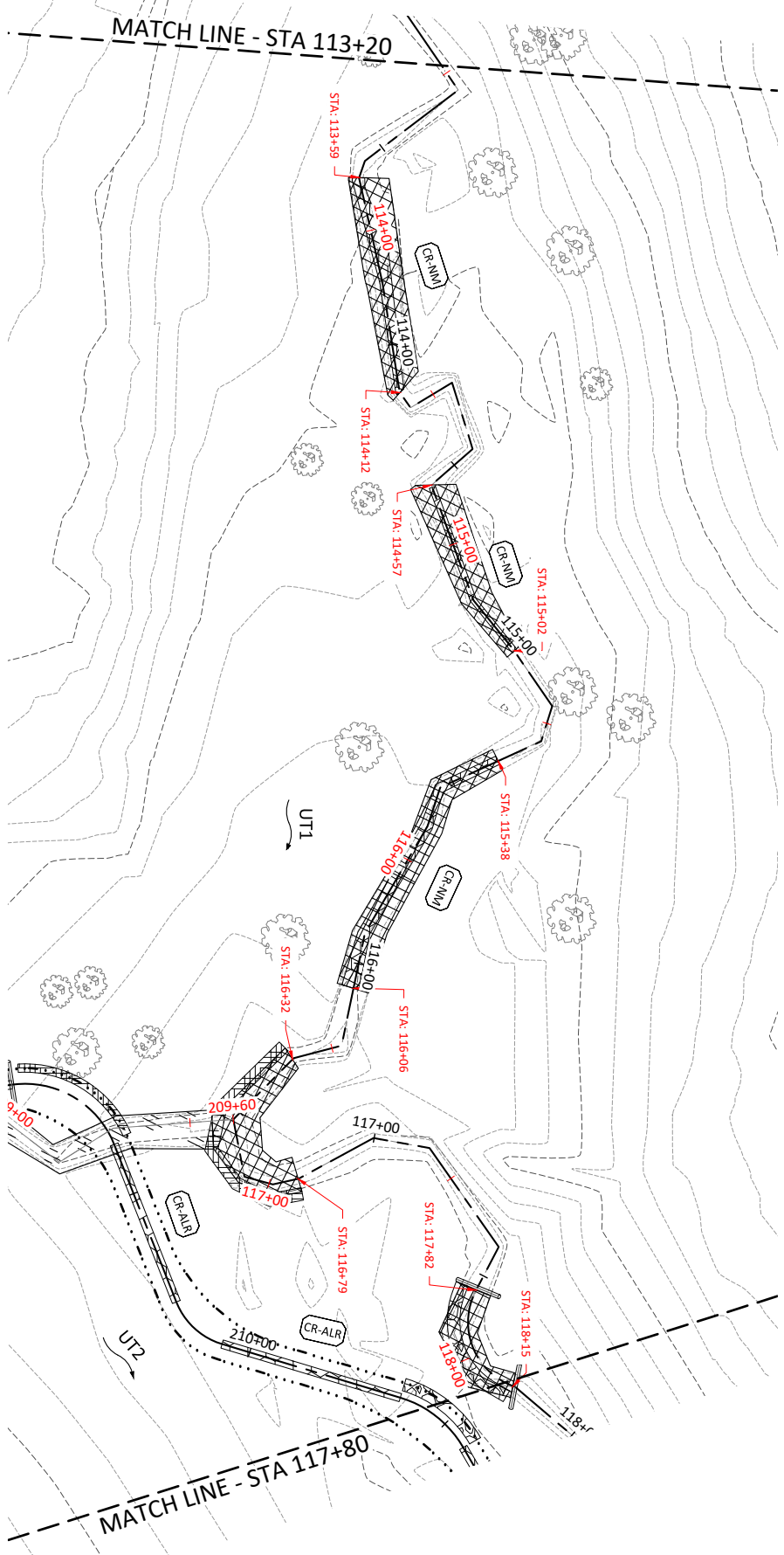
Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

2.1.3



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CV/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	246	0.73	180 CV



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

Revisions:

2.1.4

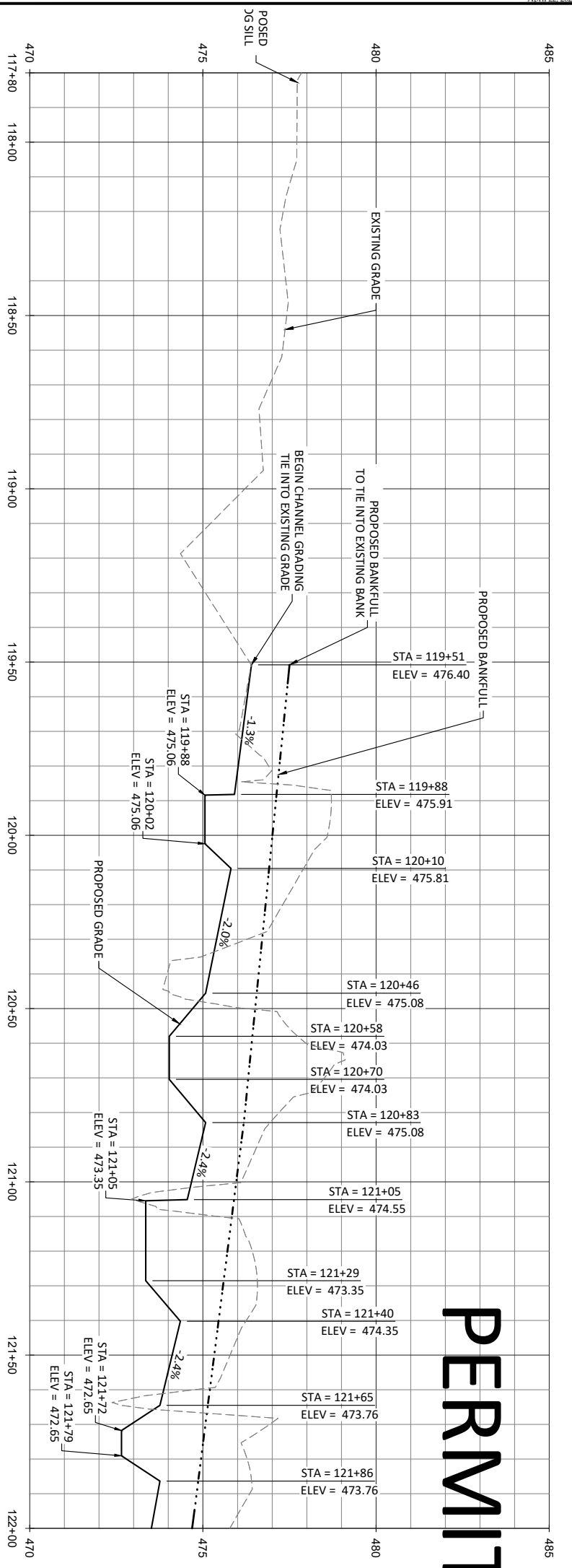
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Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT1 Reach 1
 PCN

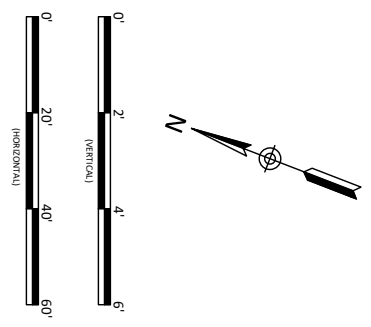
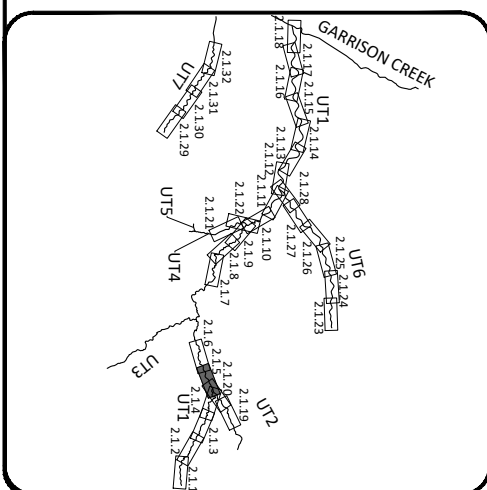
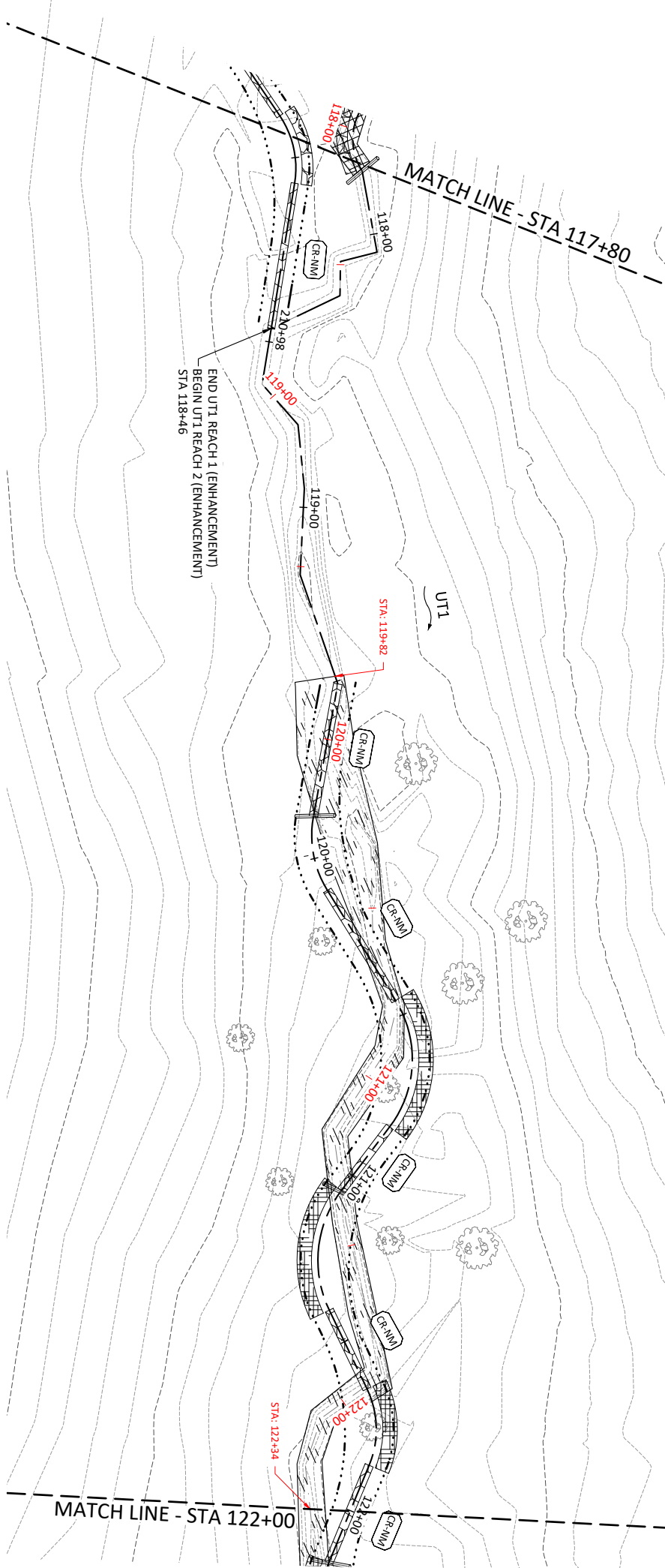
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PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	252	0.95	239 CY



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

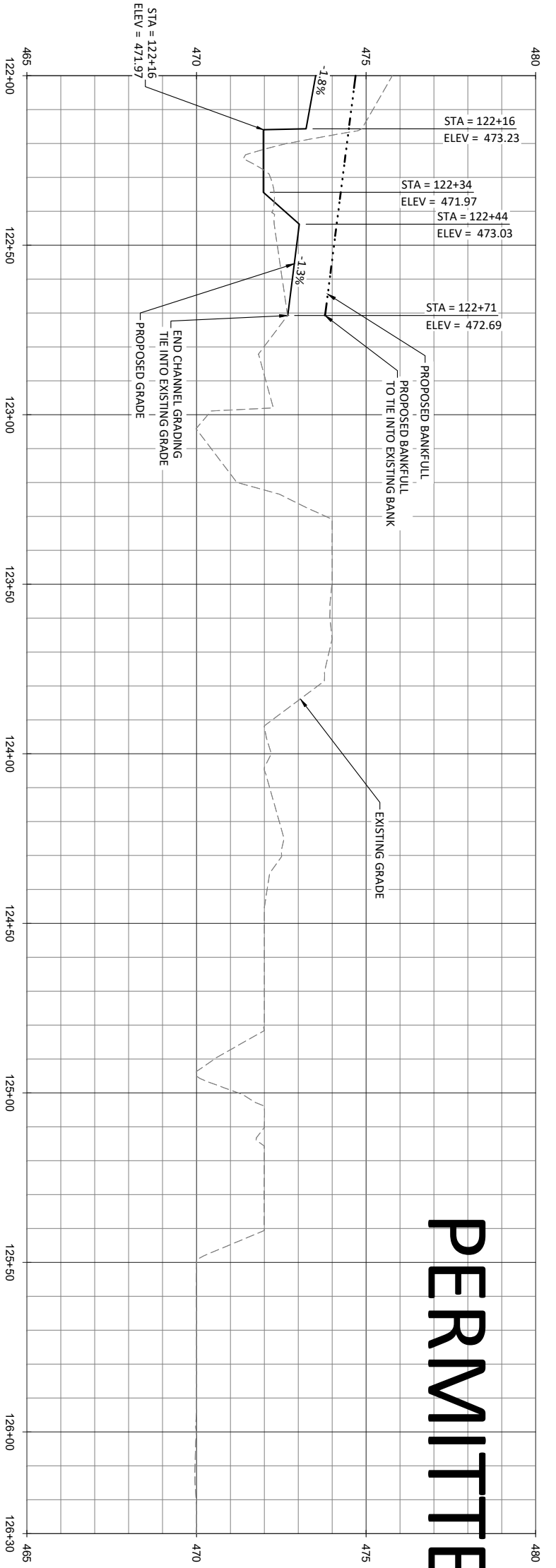
Carolina Crossroads Mitigation Site - PH Timber Tract Newberry County, South Carolina

UT1 Reach 1 & 2
PCN

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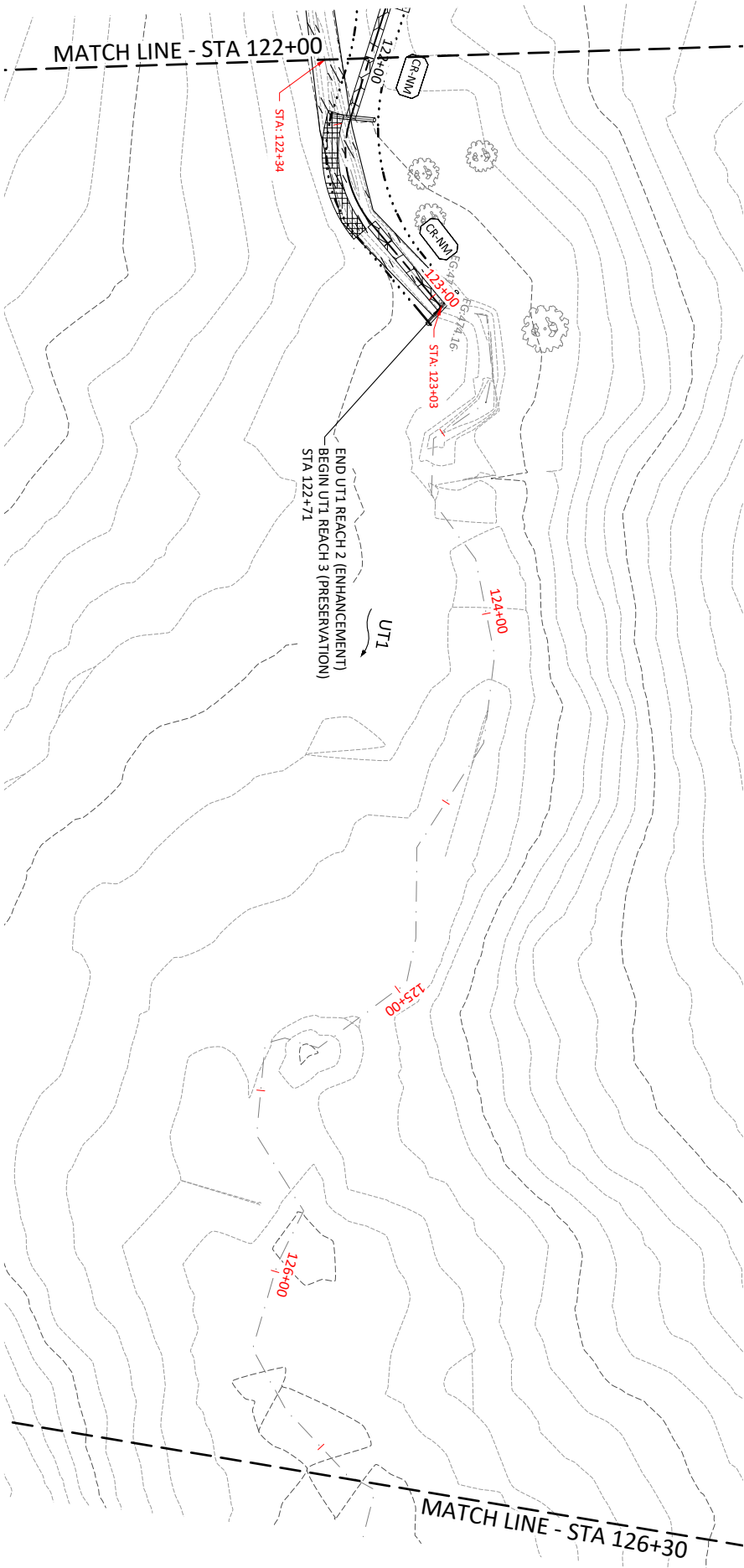
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2.1.5

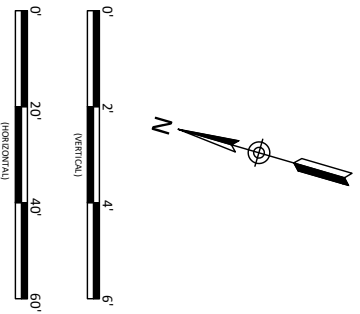
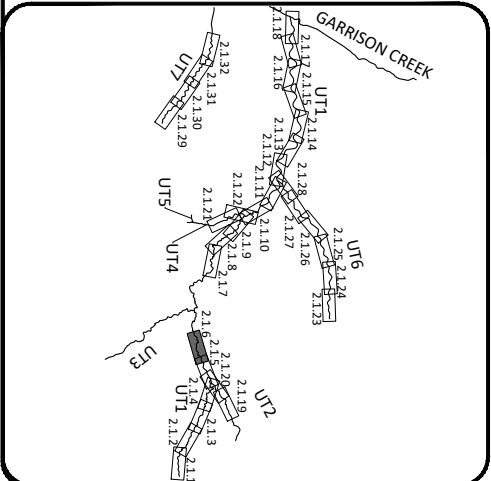


PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	69	0.95	66 CY



NOTE: TOPOGRAPHY WITHIN PRESERVATION AREAS INTERPOLATED AND NOT DETAIL SURVEY. PRESERVATION PROFILE SHOWN FOR ALIGNMENT REPRESENTATION ONLY. ACTUAL THALWEG ELEVATIONS WITHIN PRESERVATION AREAS VARY.



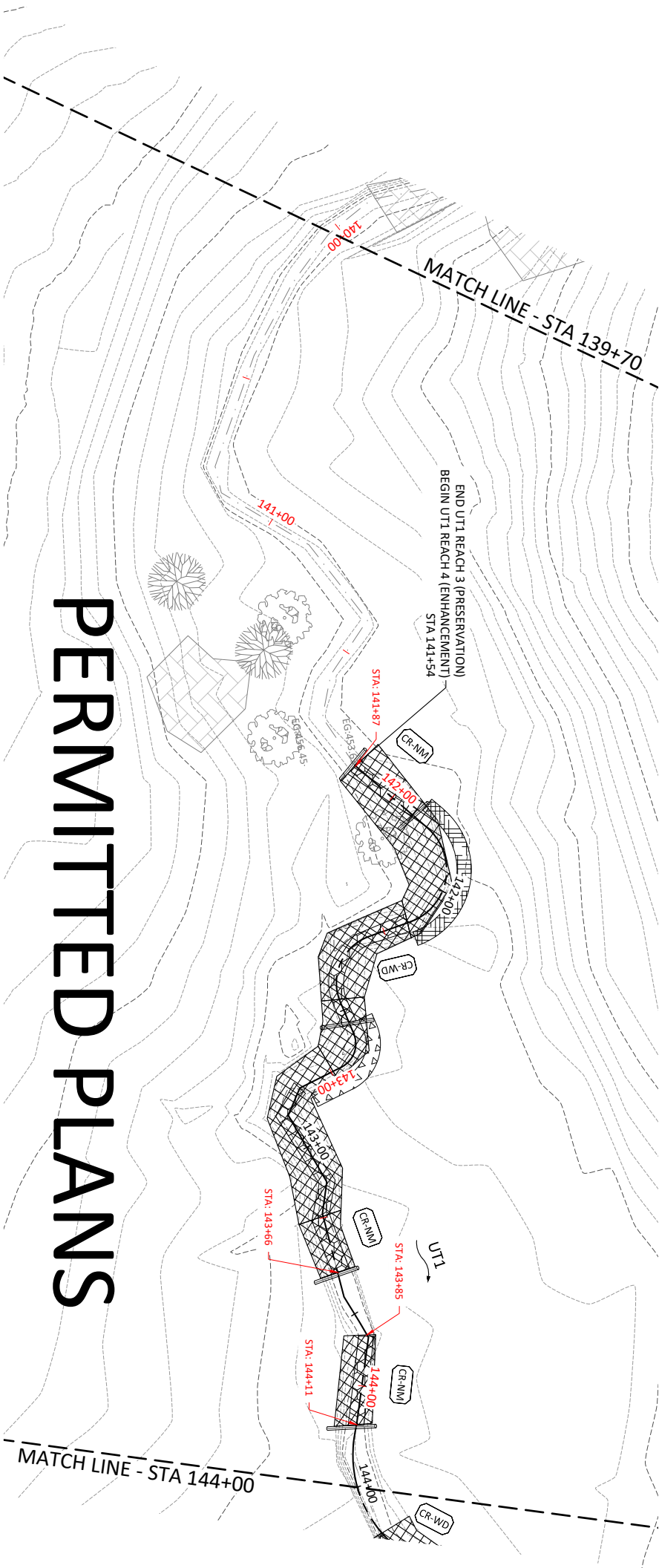
Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

Carolina Crossroads Mitigation Site - PH Timber Tract Newberry County, South Carolina

UT1 Reach 2 & 3
PCN

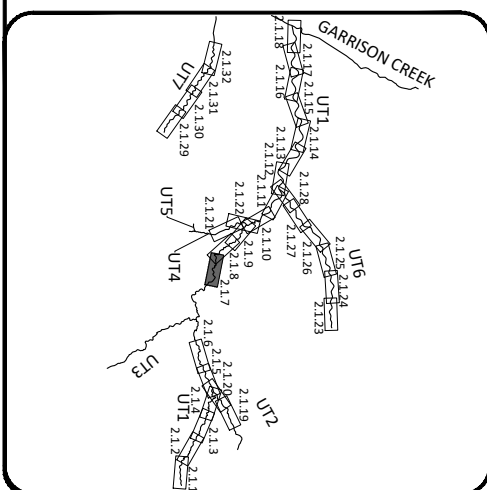
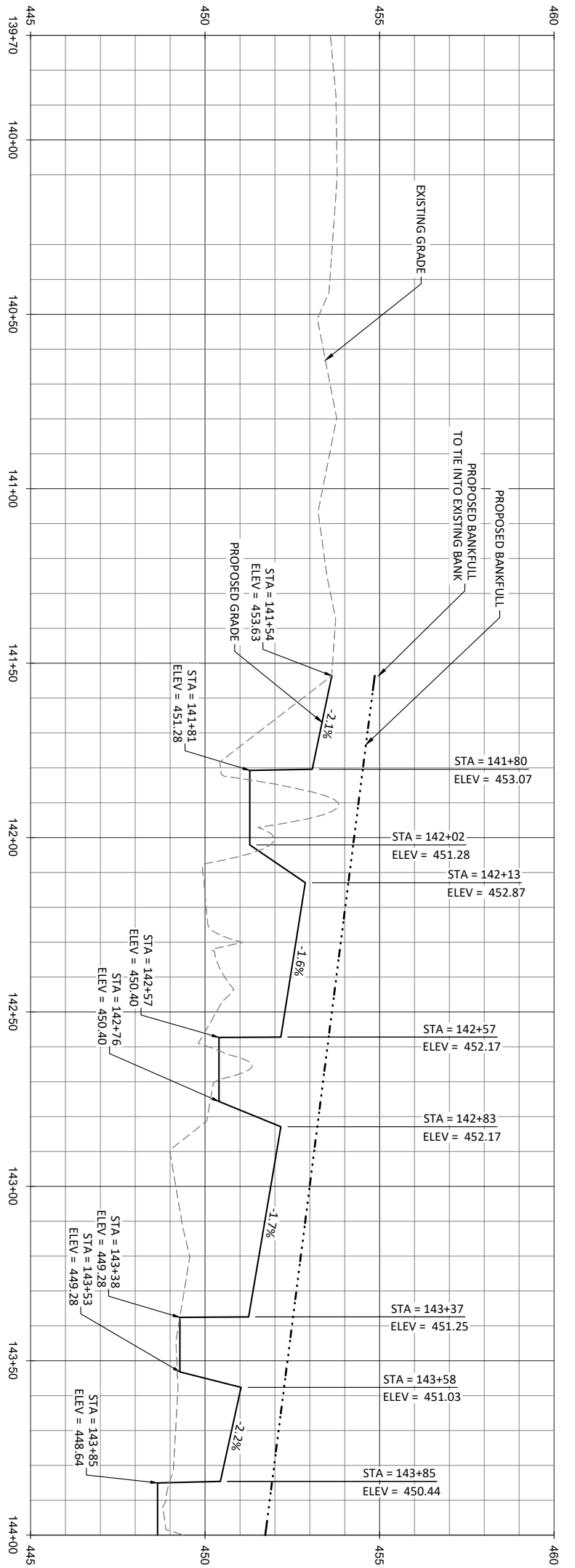
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PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact length (FT)	Unit Quantity of Material Discharged (CV/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	205	0.73	150 CV



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

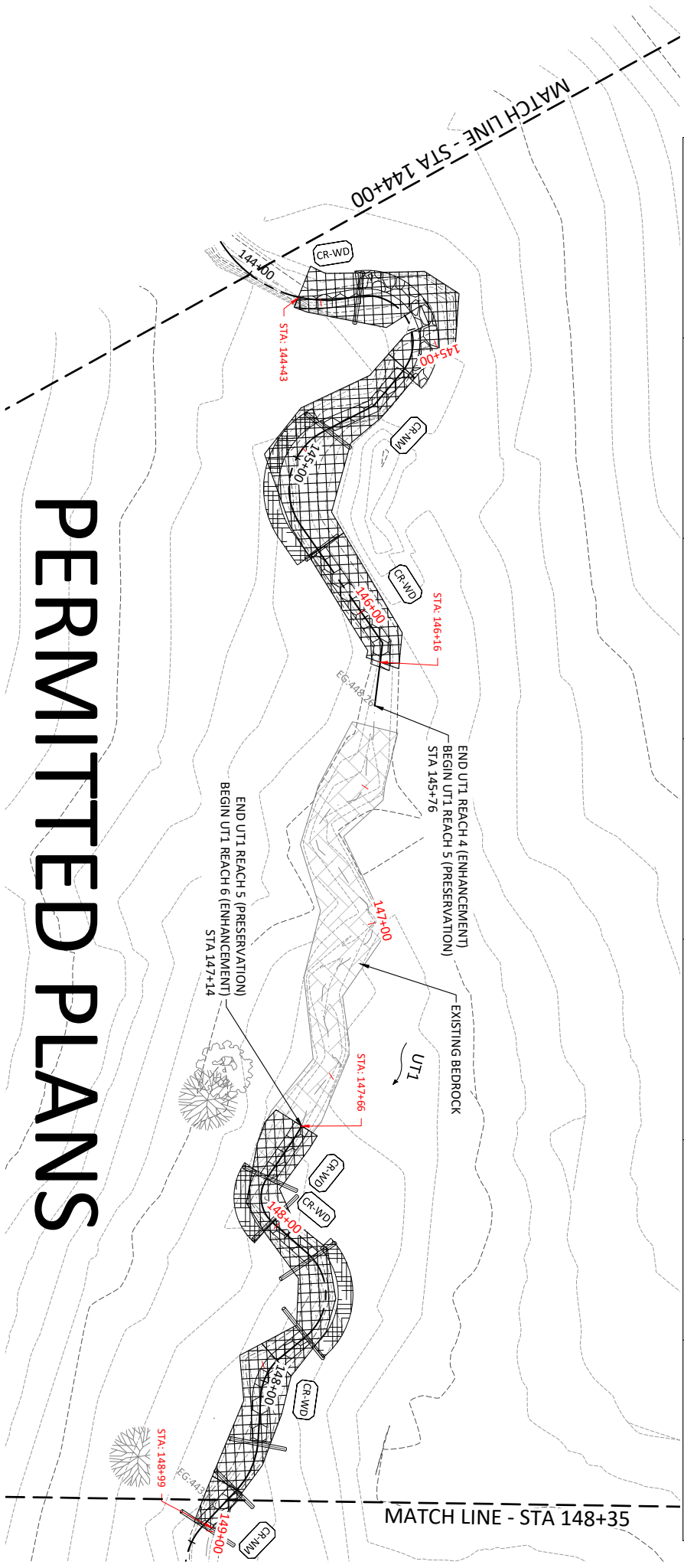
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Carolina Crossroads Mitigation Site - PH Timber Tract Newberry County, South Carolina

UT1 Reach 3 & 4
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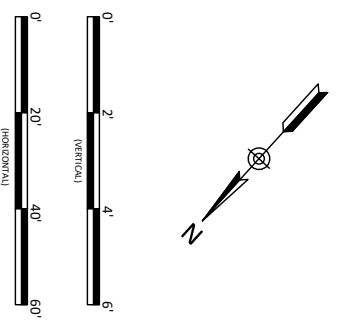
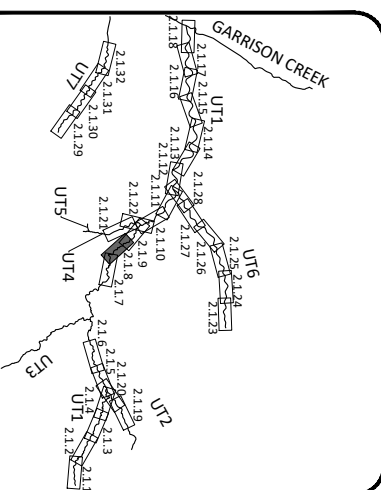
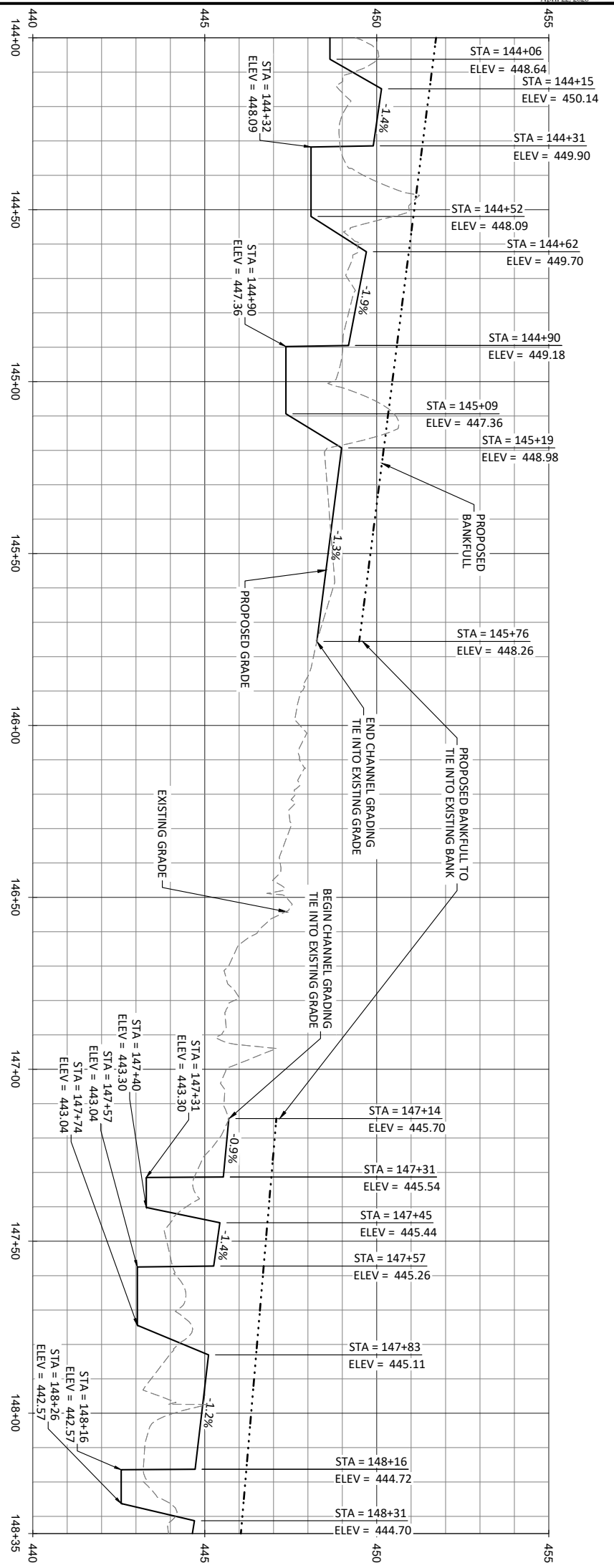
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PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	306	0.73	223 CY



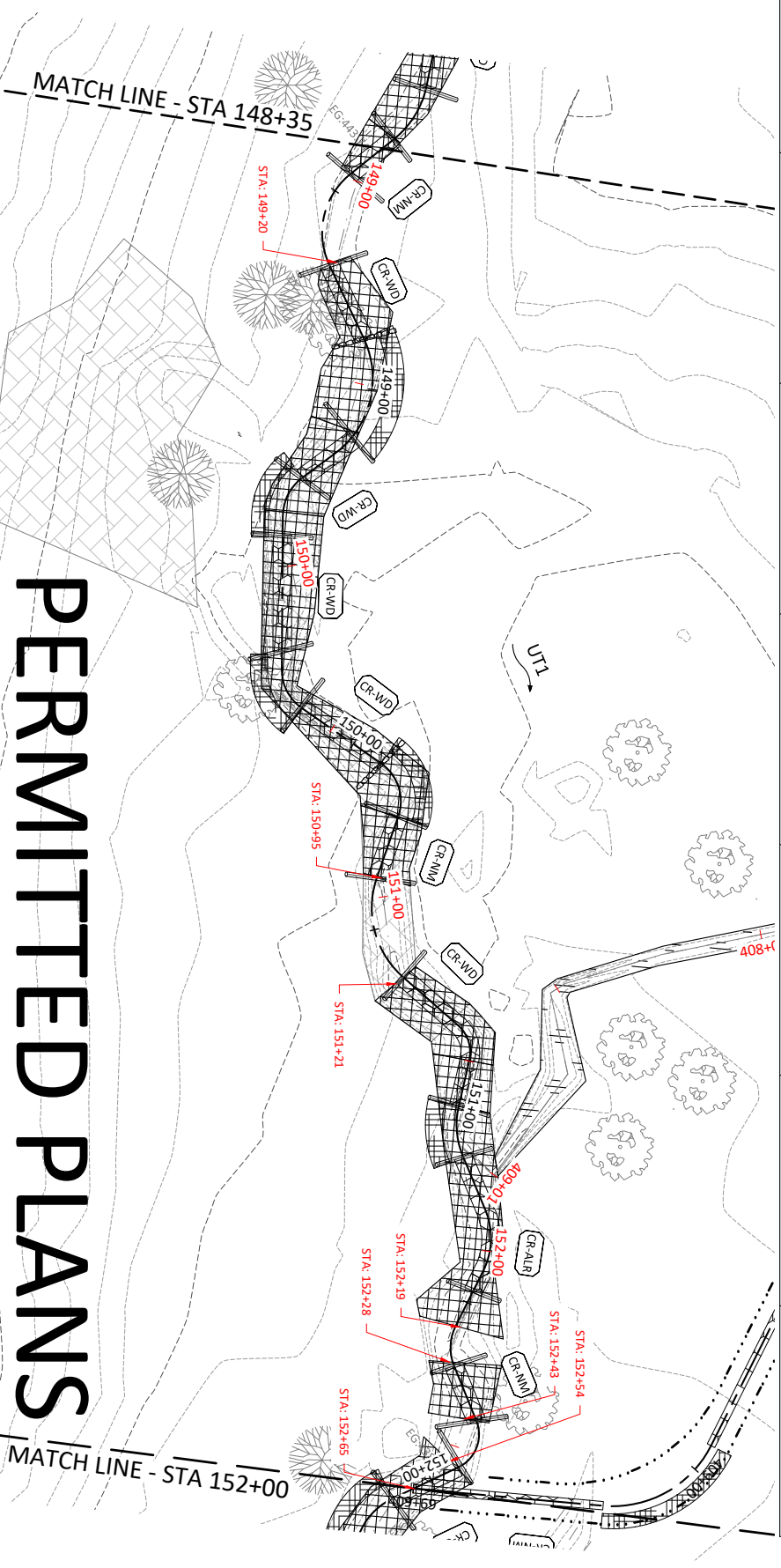
Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT1 Reach 4, 5 & 6
 PCN

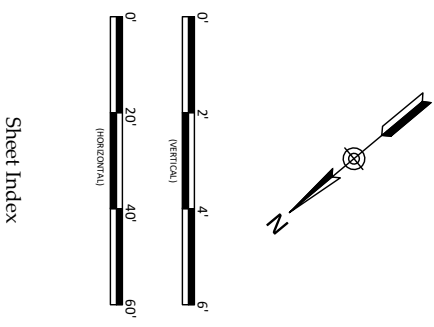
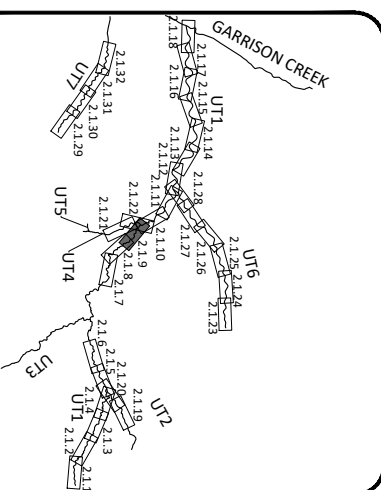
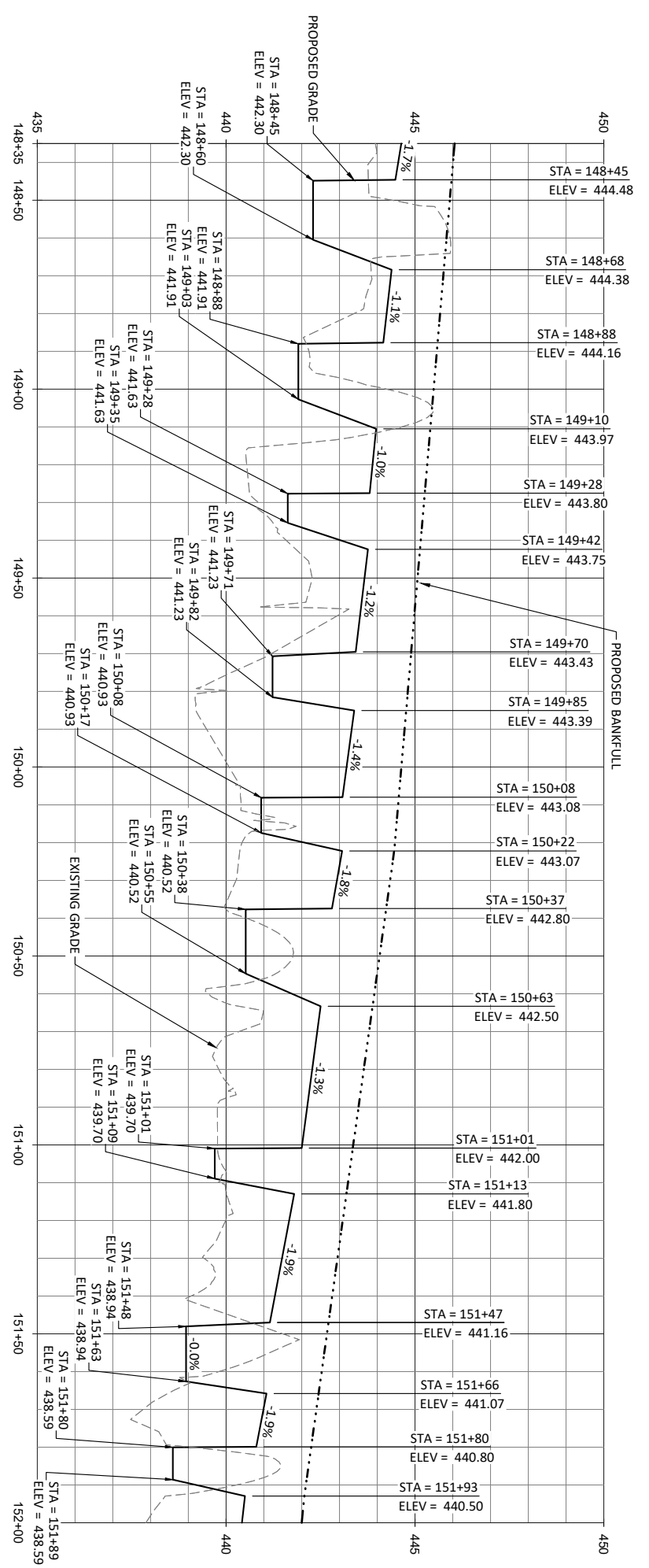
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PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact length (FT)	Unit Quantity of Material Discharged (CV/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	299	0.73	218 CV



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

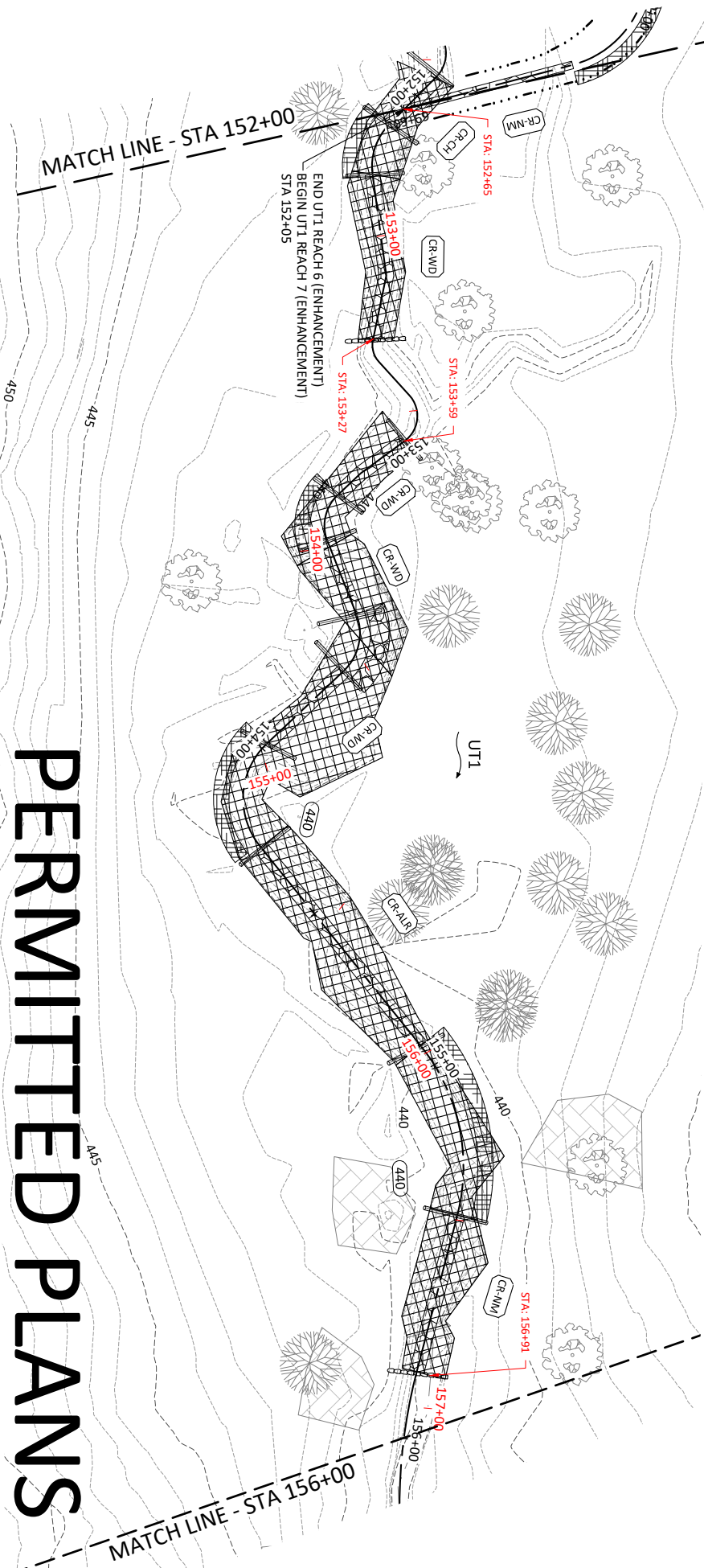
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Carolina Crossroads Mitigation Site - PH Timber Tract Newberry County, South Carolina

UT1 Reach 6
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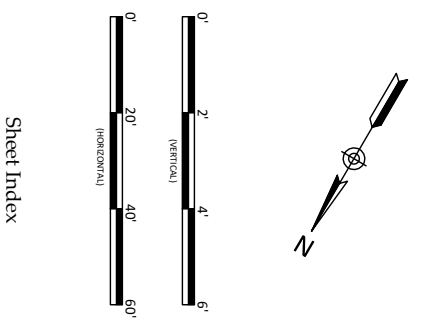
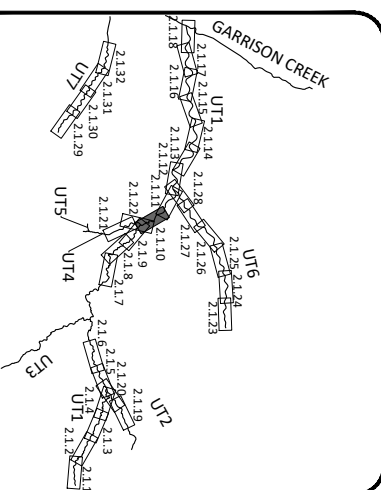
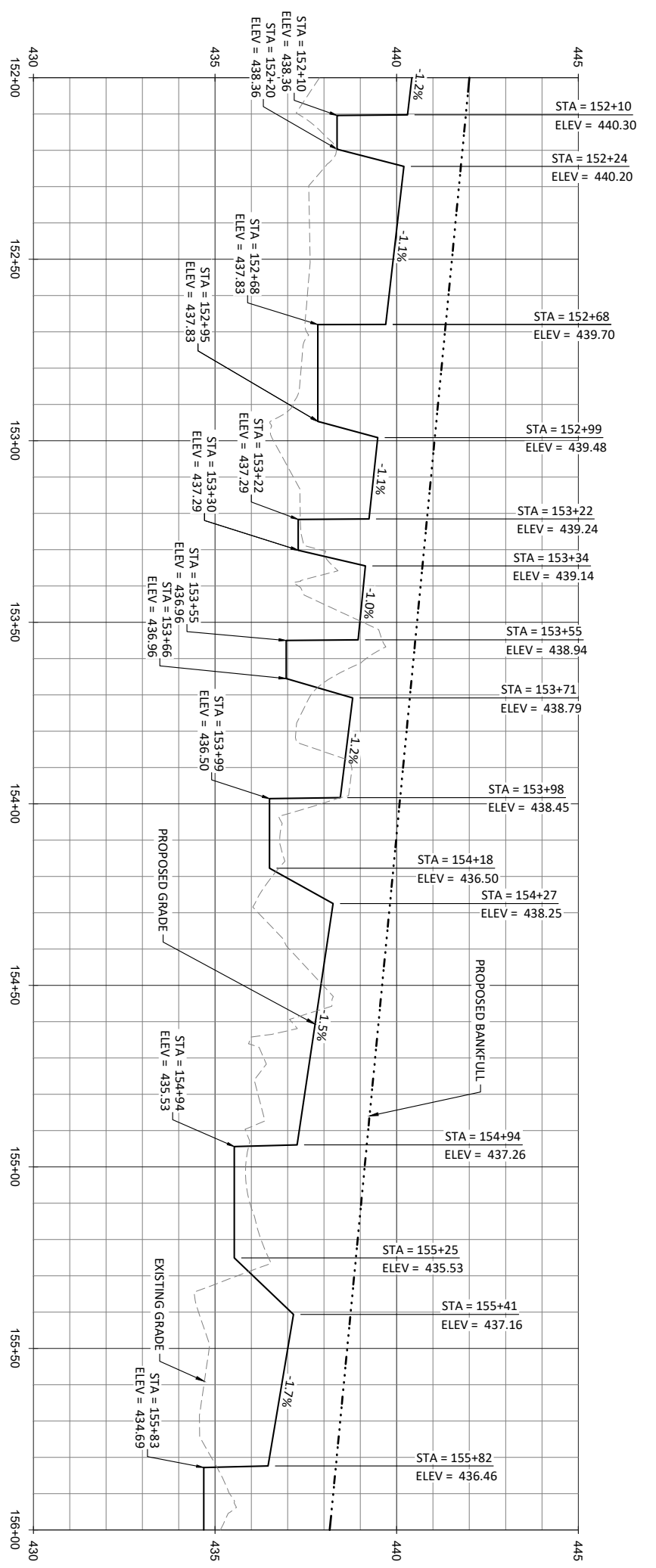
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PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	394	0.73	288 CY



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

Revisions:

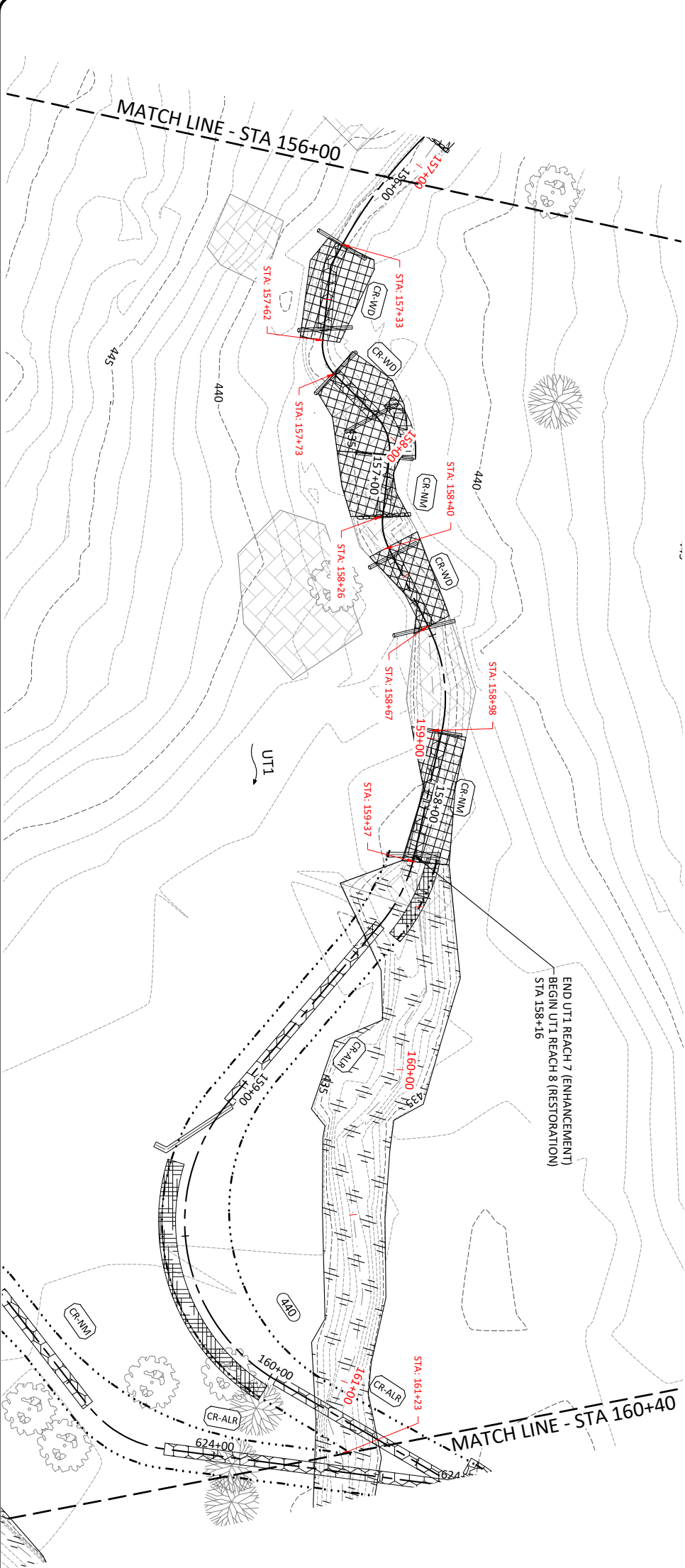
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT1 Reach 7
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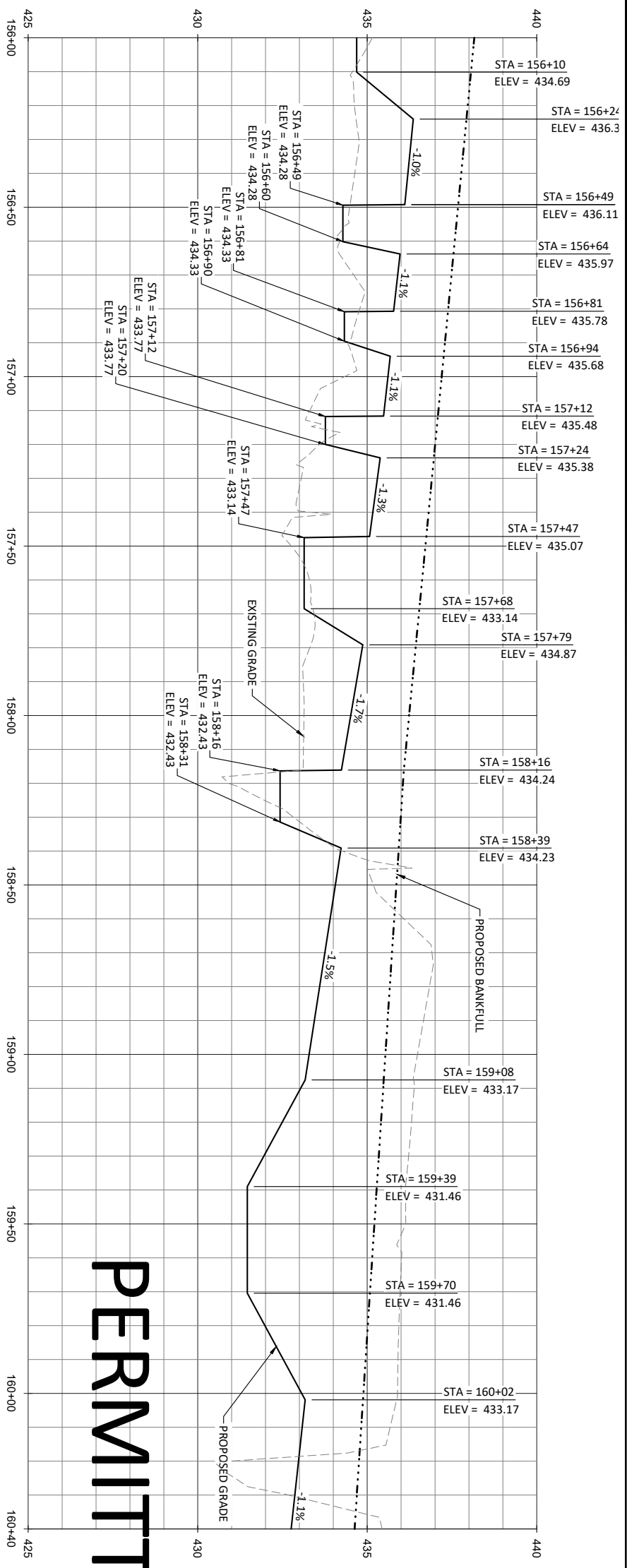
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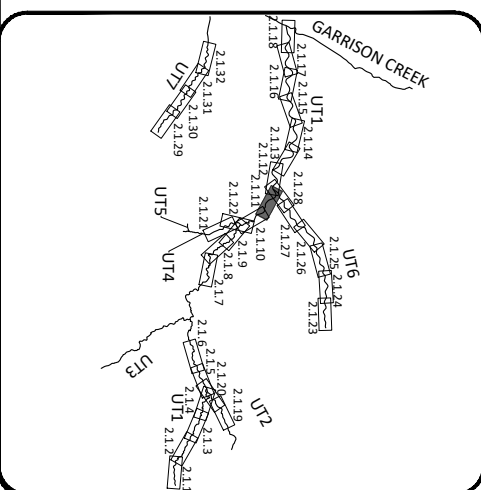
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	148	0.73	108 CY
4	Off-line Channel Construction	12	Soil Fill	186	0.95	177 CY
						108 CY
						177 CY



PERMITTED PLANS



Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

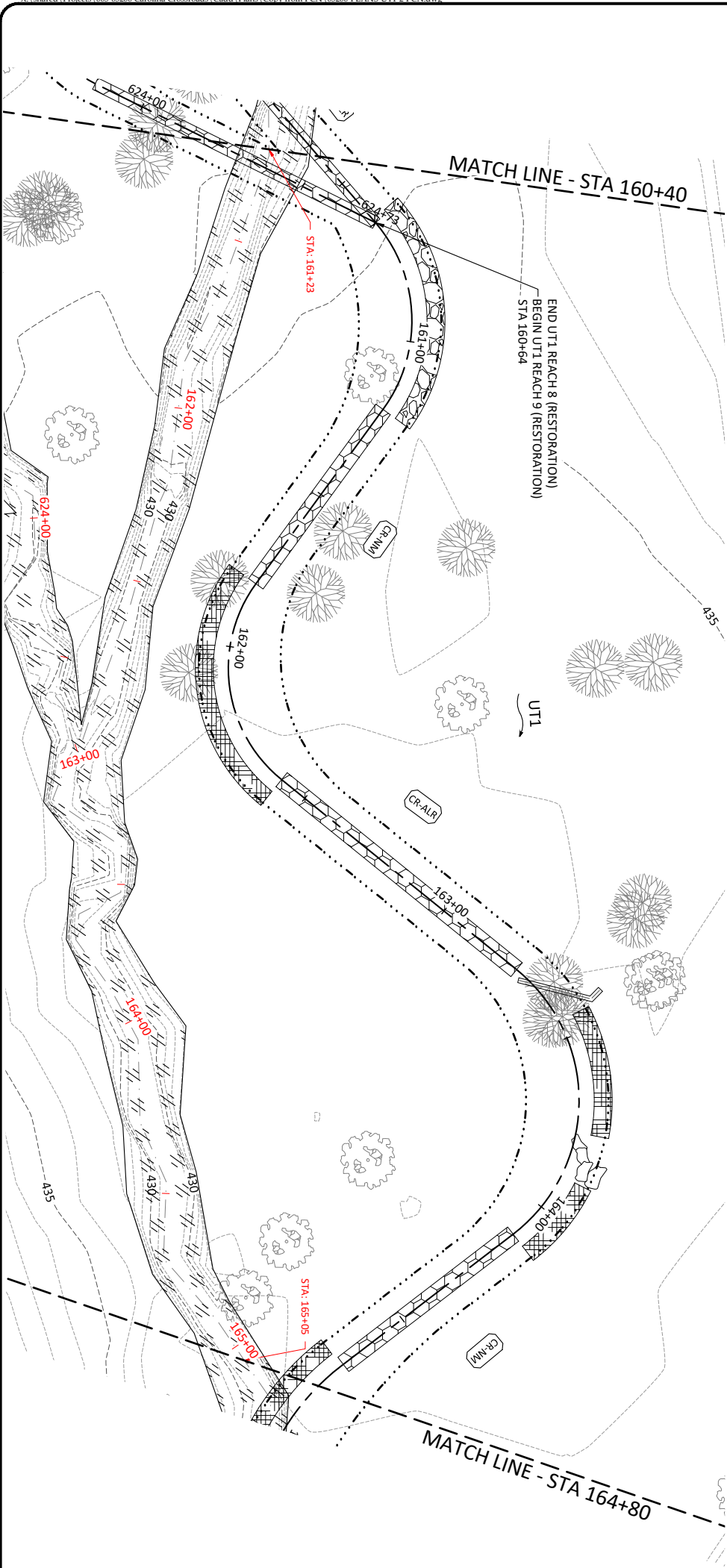
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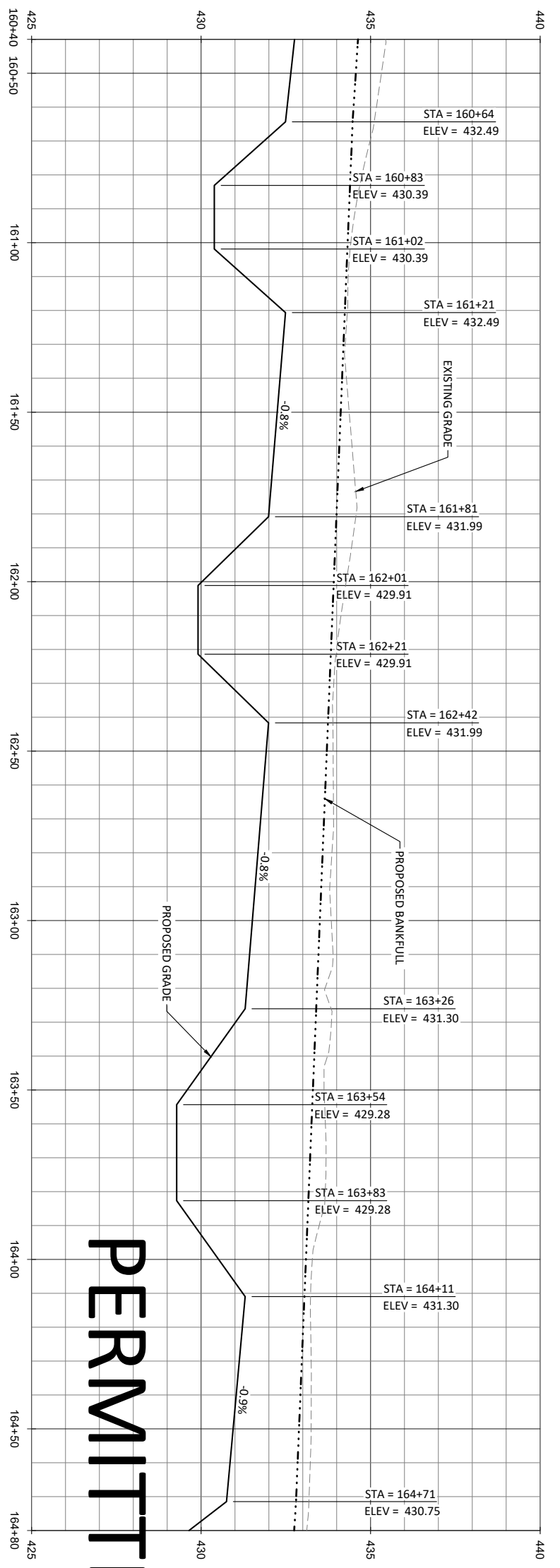
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Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

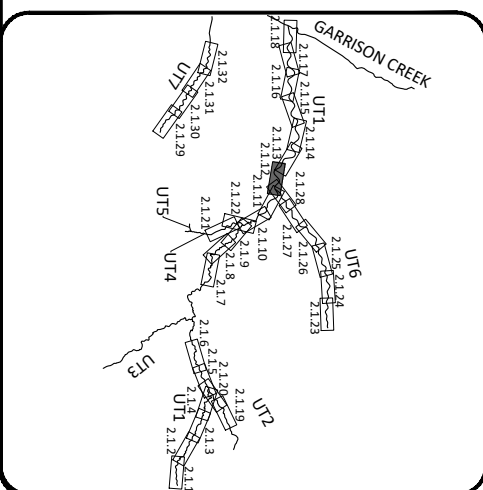
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	382	0.95	363 CY



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DFH

Revisions:

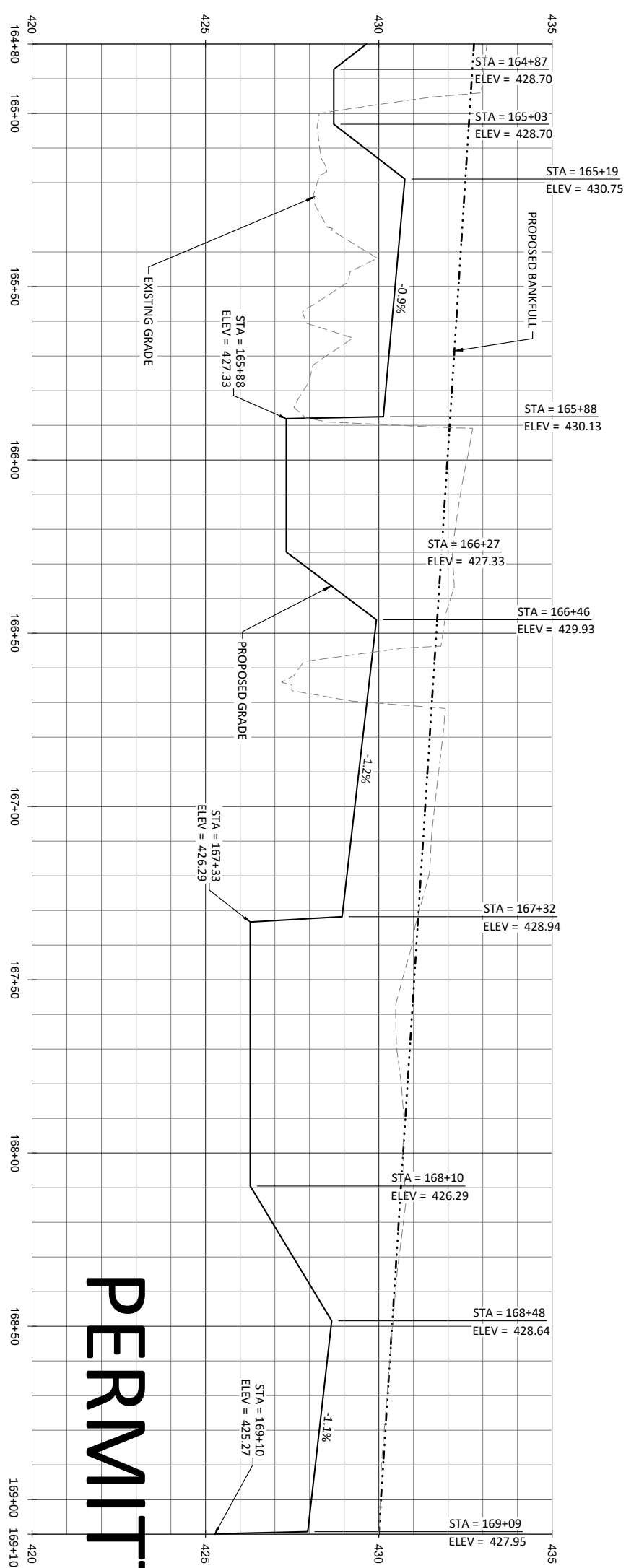
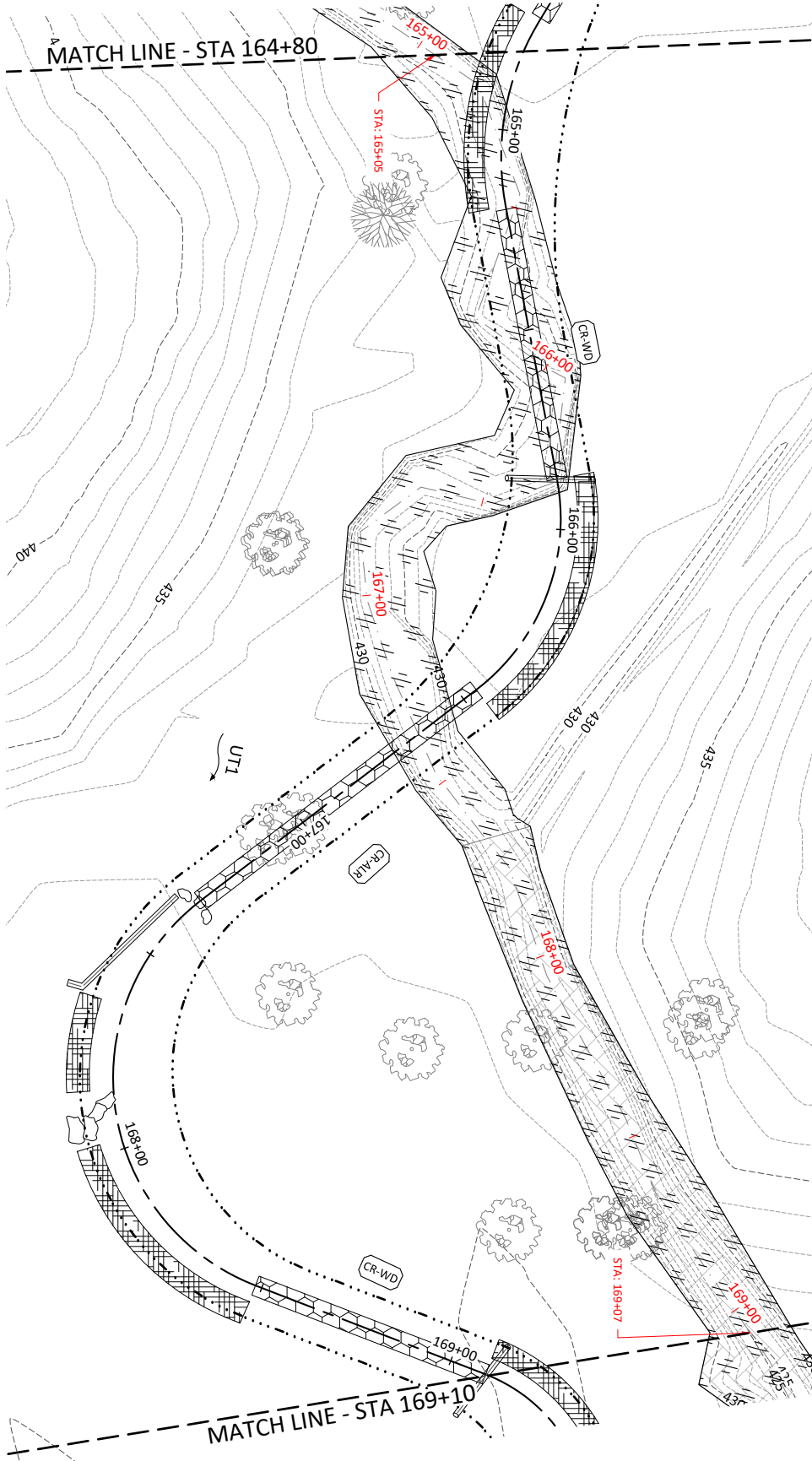
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT1 Reach 9
 PCN

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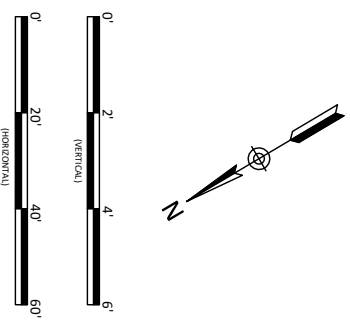
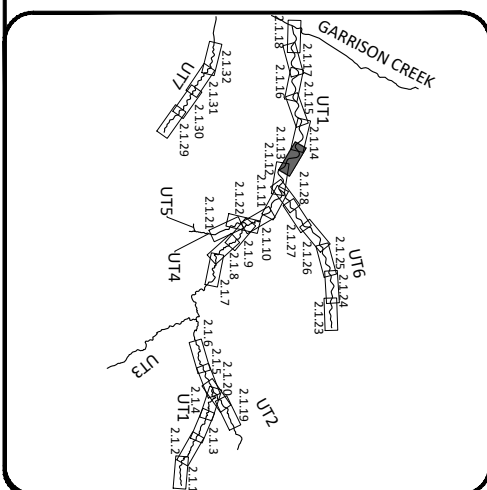
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2.1.12



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	402	0.95	382 CY

PERMITTED PLANS



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

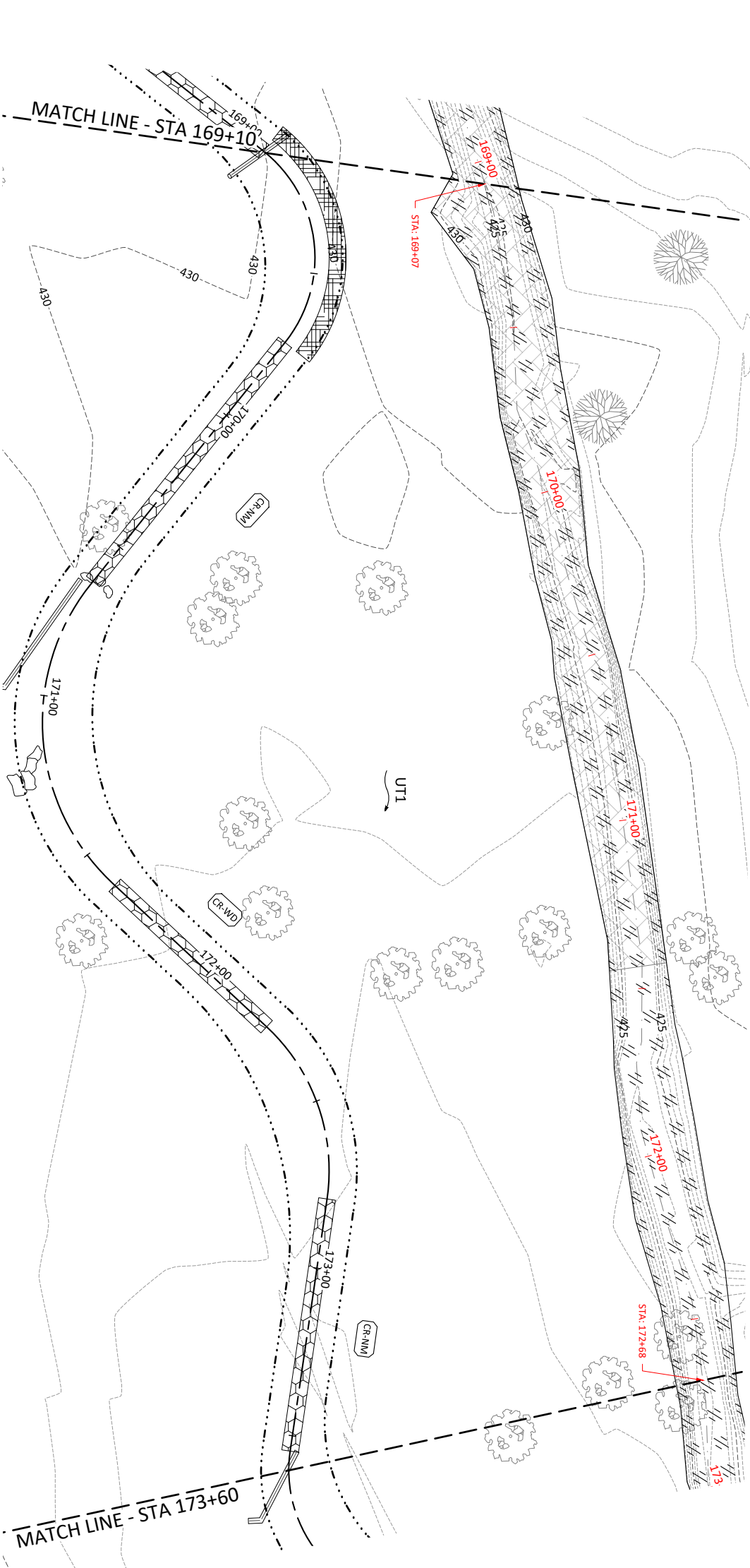
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT1 Reach 9
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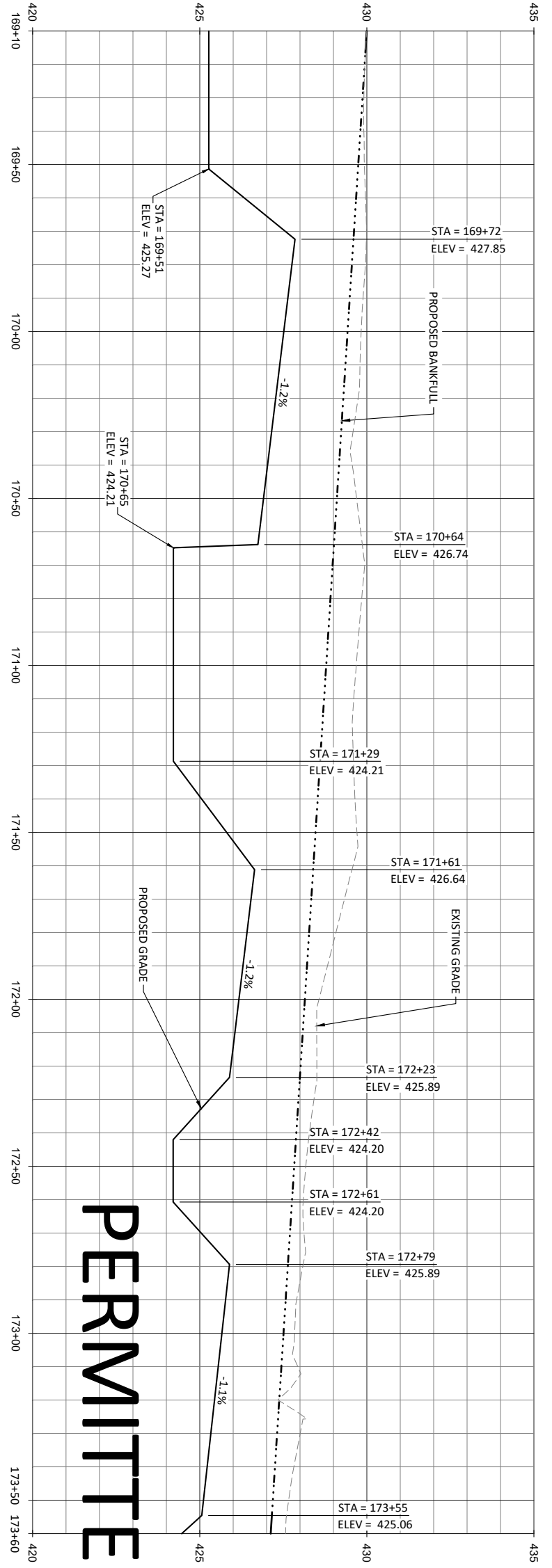
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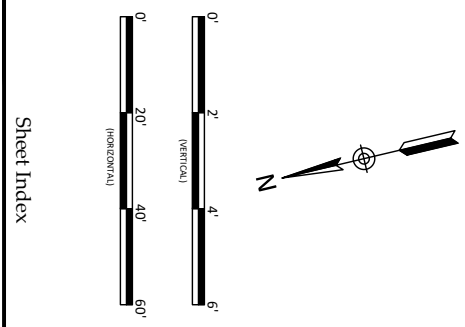
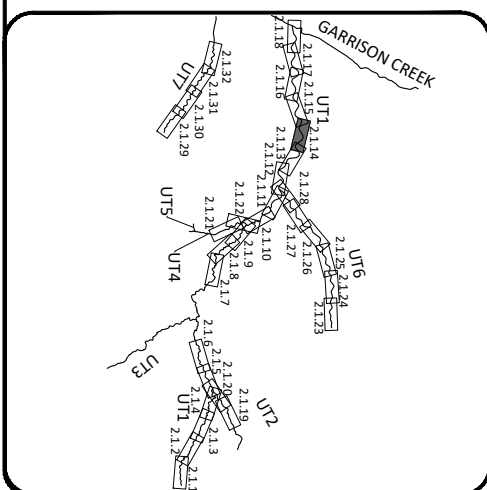
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	361	0.95	343 CY



PERMITTED PLANS



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

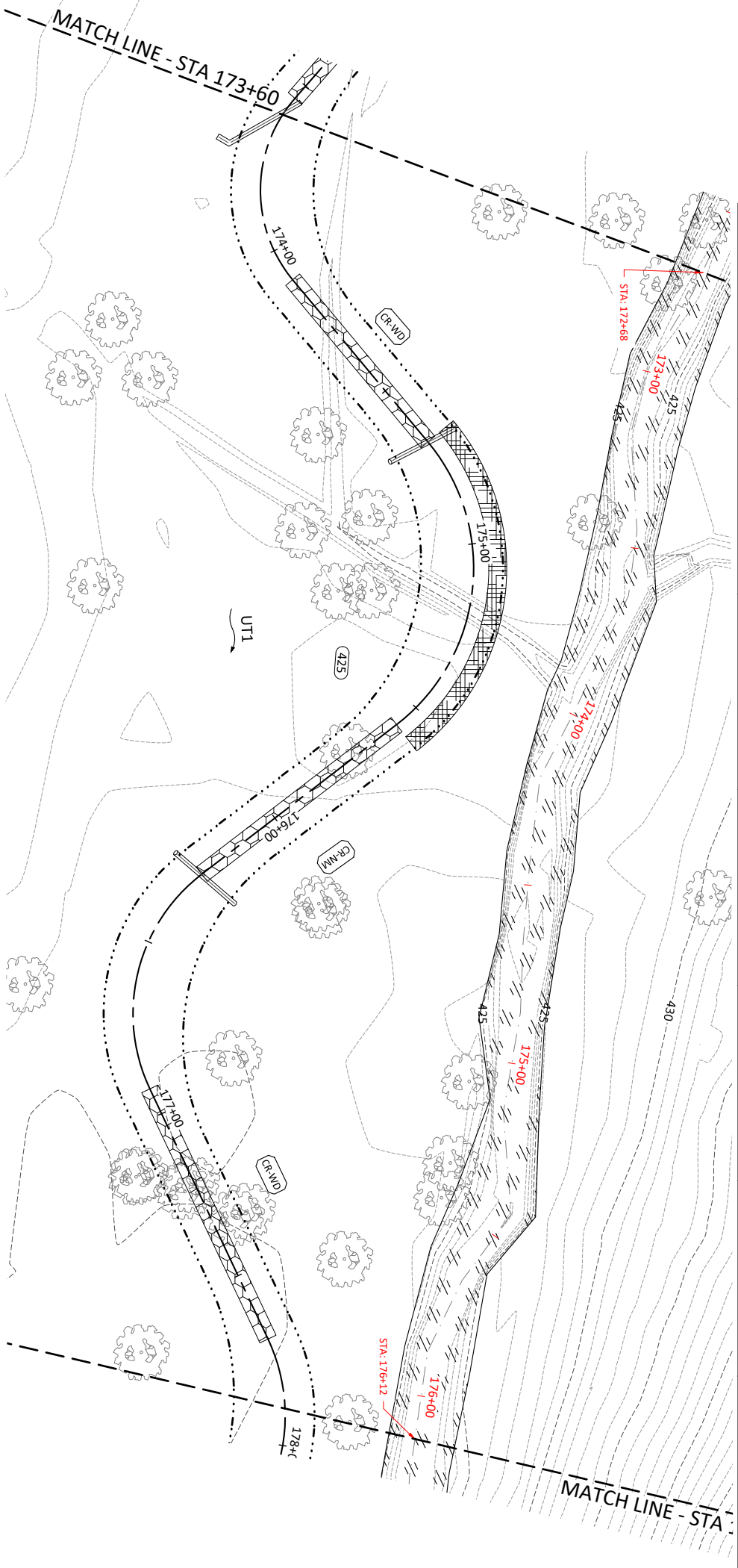
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT1 Reach 9
PCN

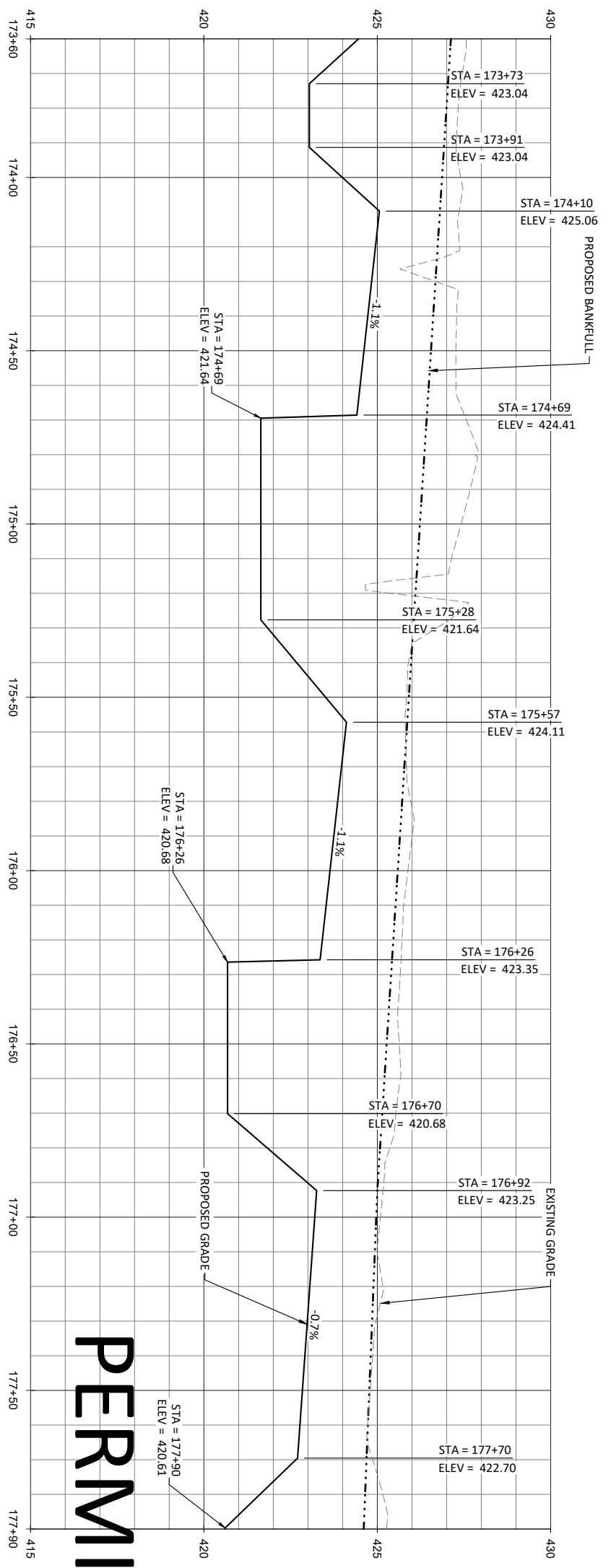
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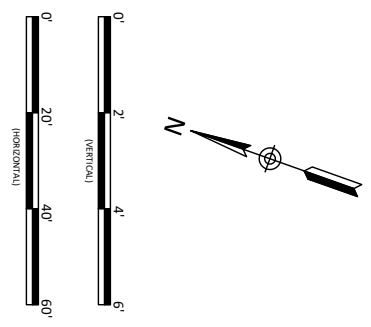
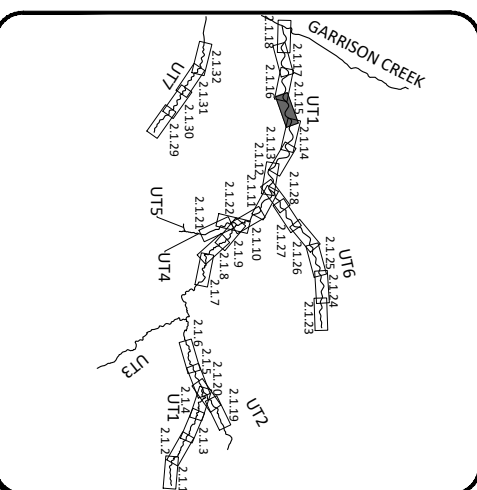
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	344	0.95	327 CY



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

Revisions:

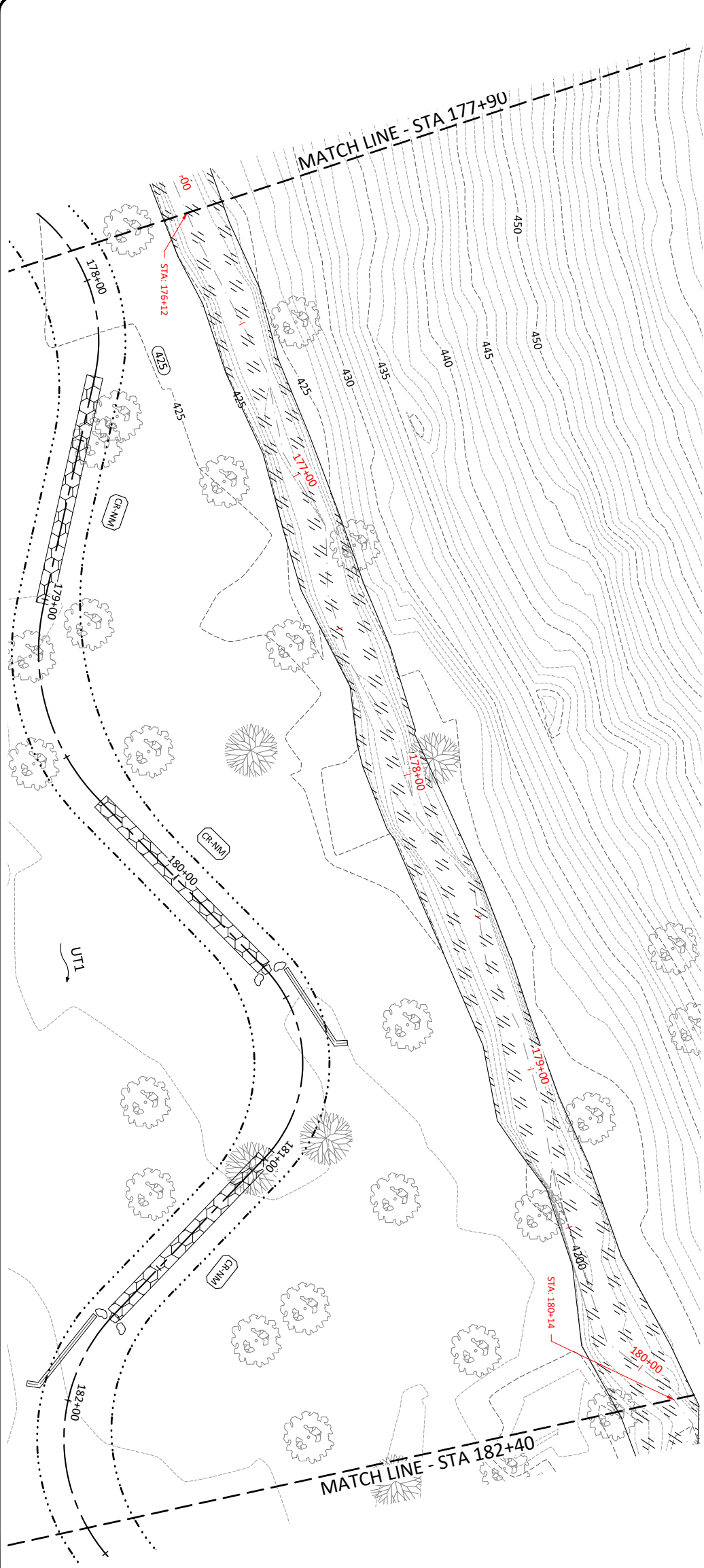
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT1 Reach 9
 PCN

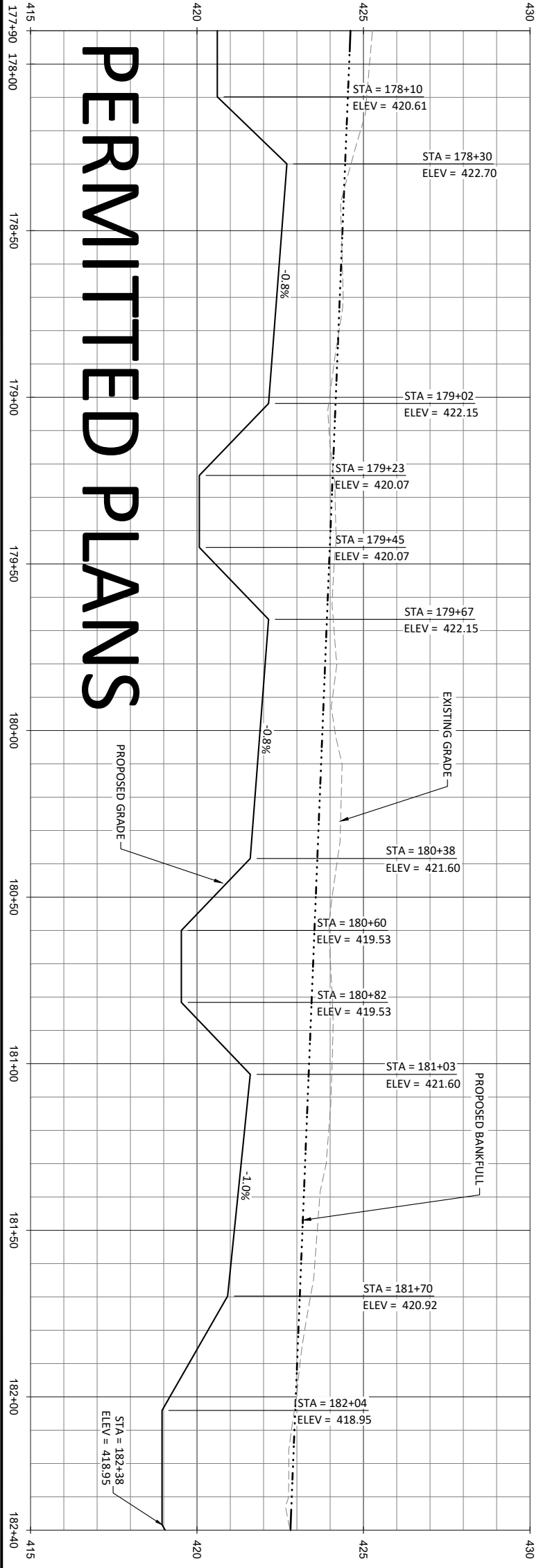
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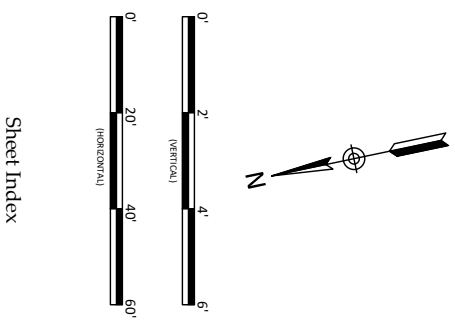
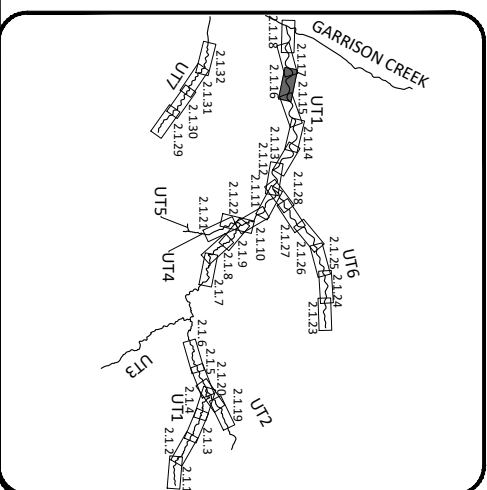
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	402	0.95	382 CY



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

Revisions:

2.1.16

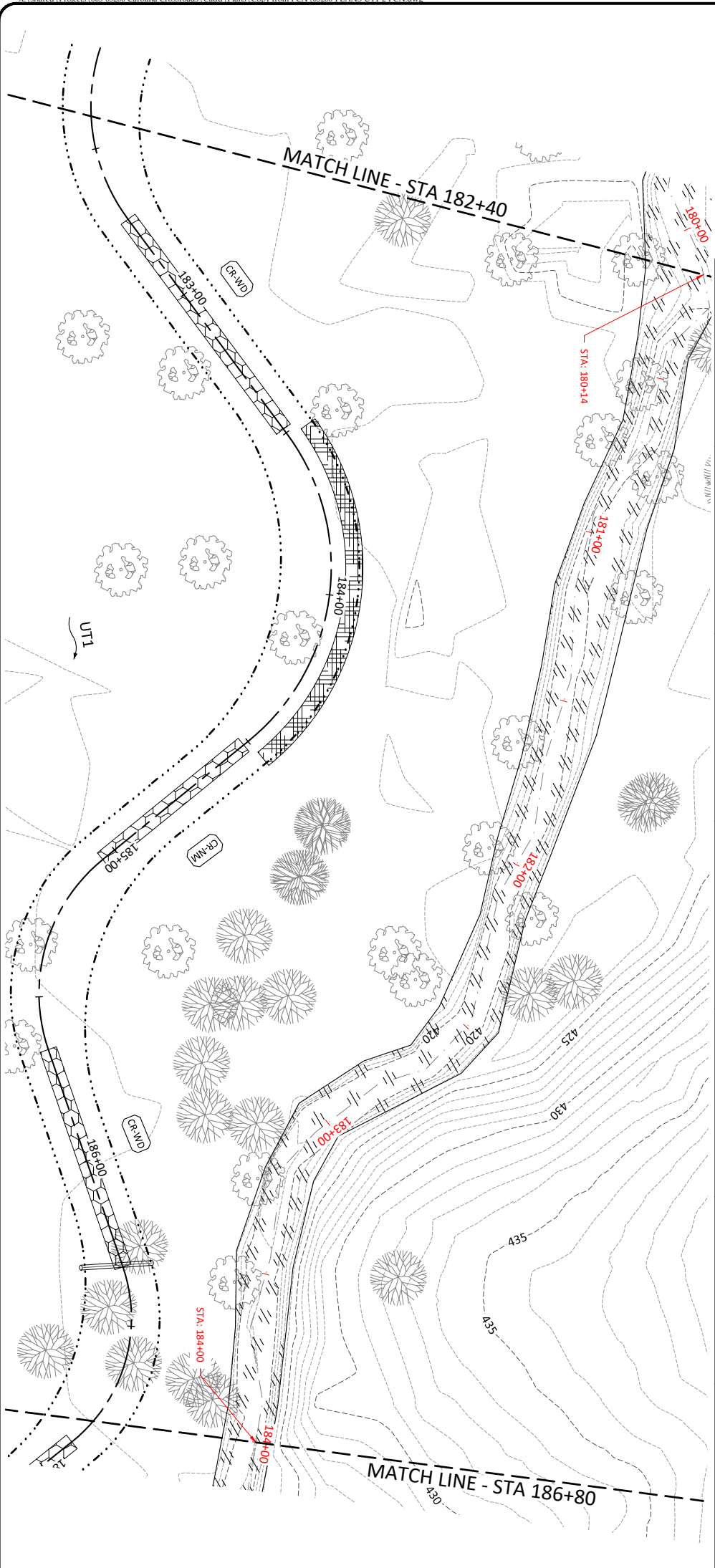
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT1 Reach 9
 PCN

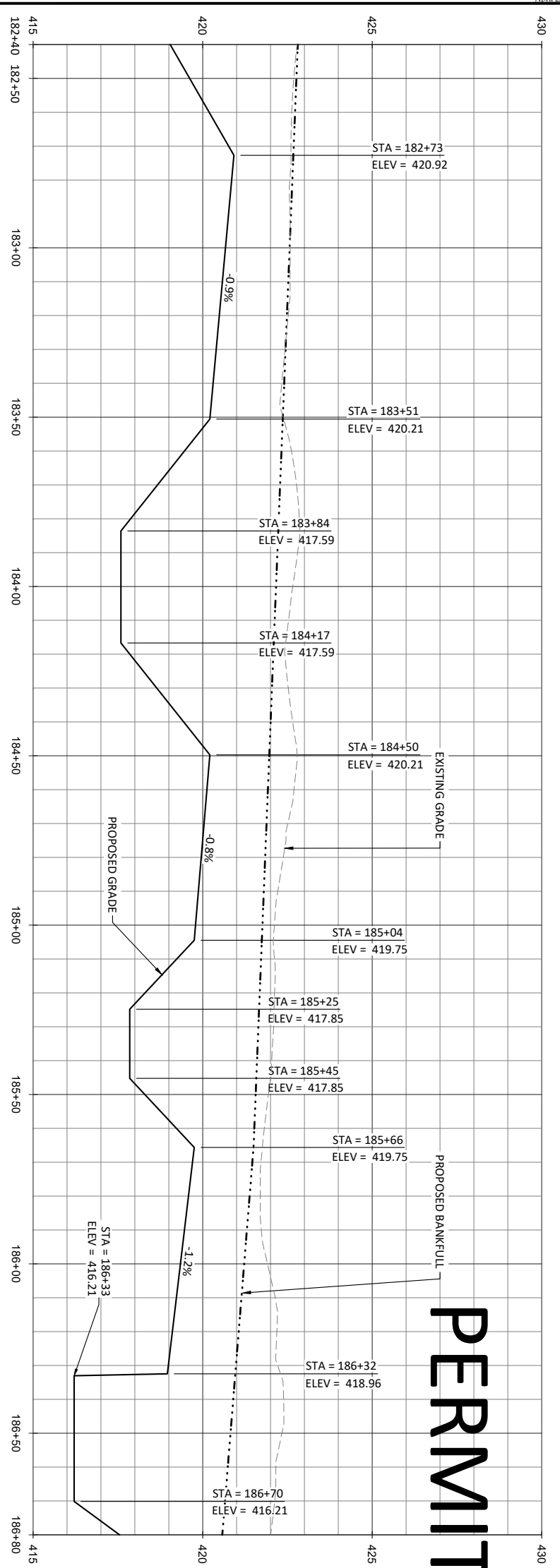
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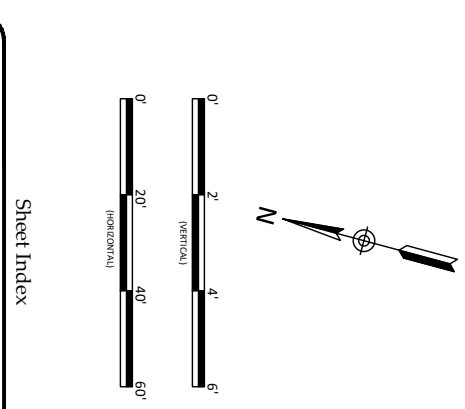
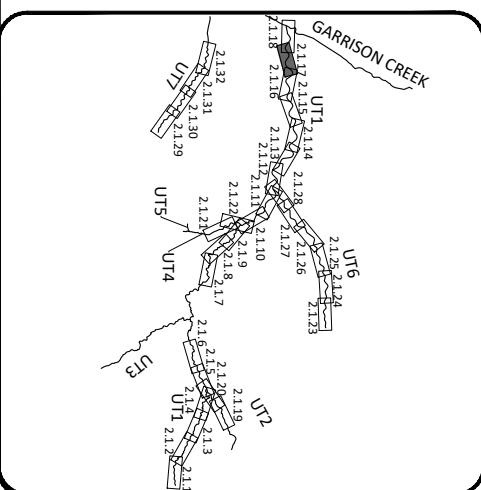
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	386	0.95	367 CY



PERMITTED PLANS



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

Revisions:	

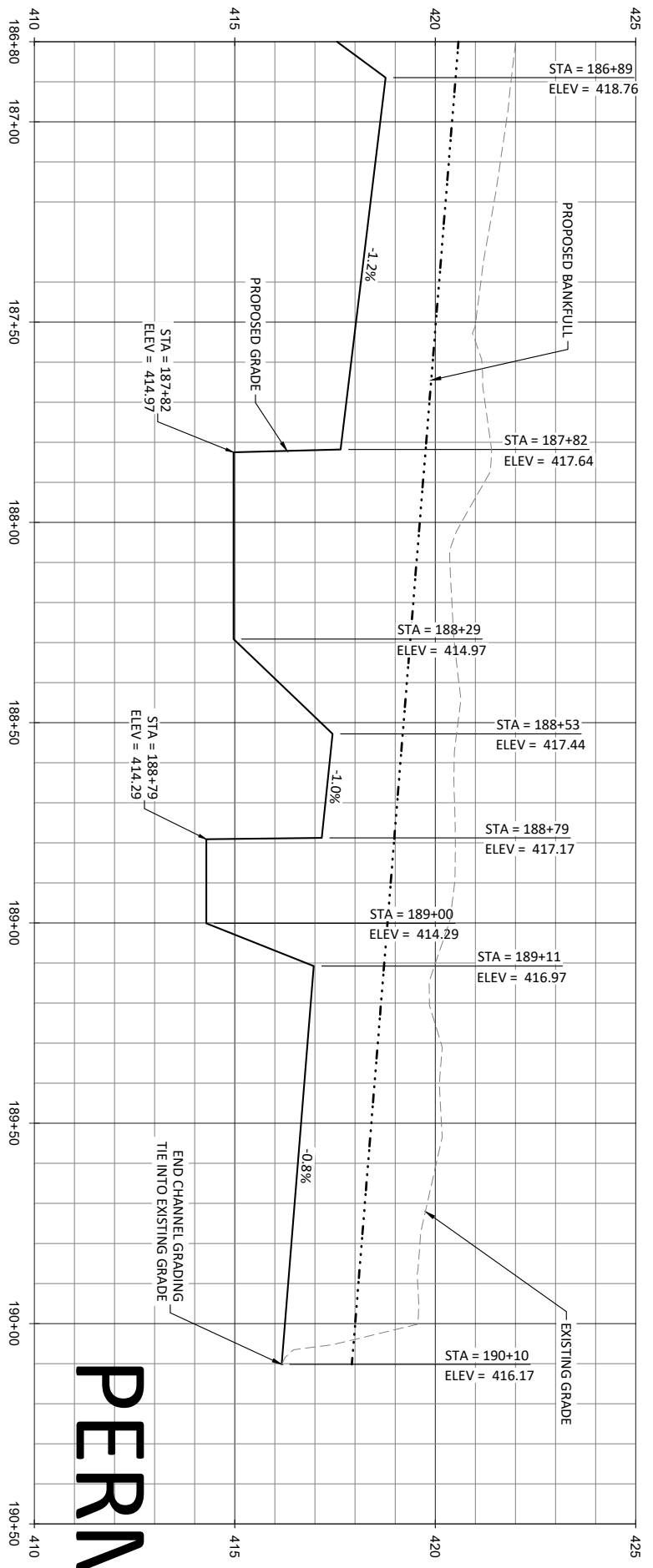
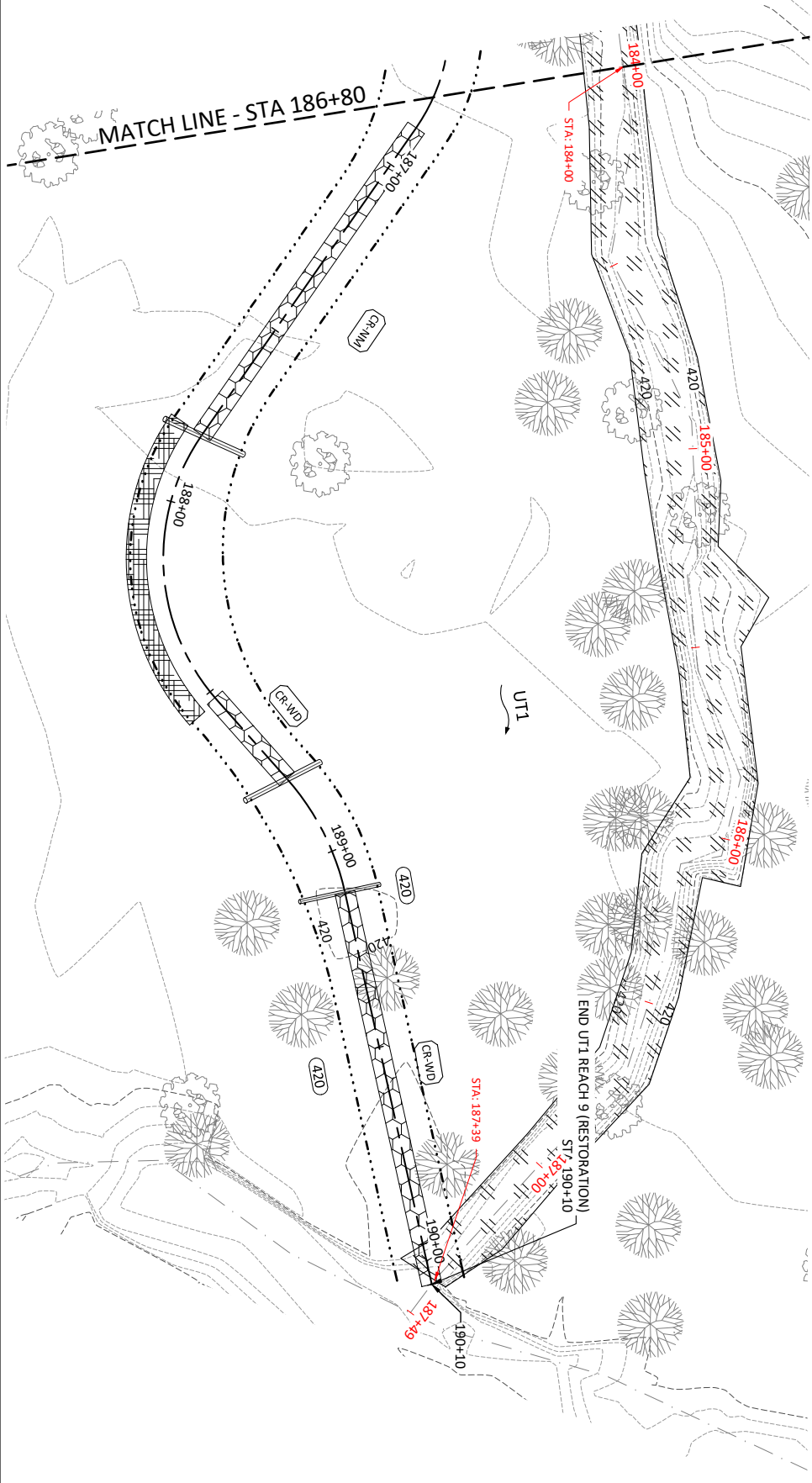
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

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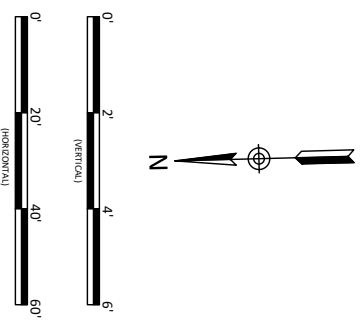
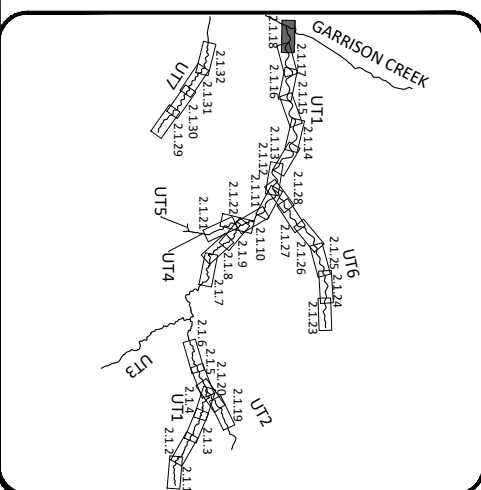
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497 Bramson Ct, Suite 104
 Mount Pleasant, SC 29464
 Tel: 843.277.6221
 Fax: 843.212.2101



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	339	0.95	322 CY



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

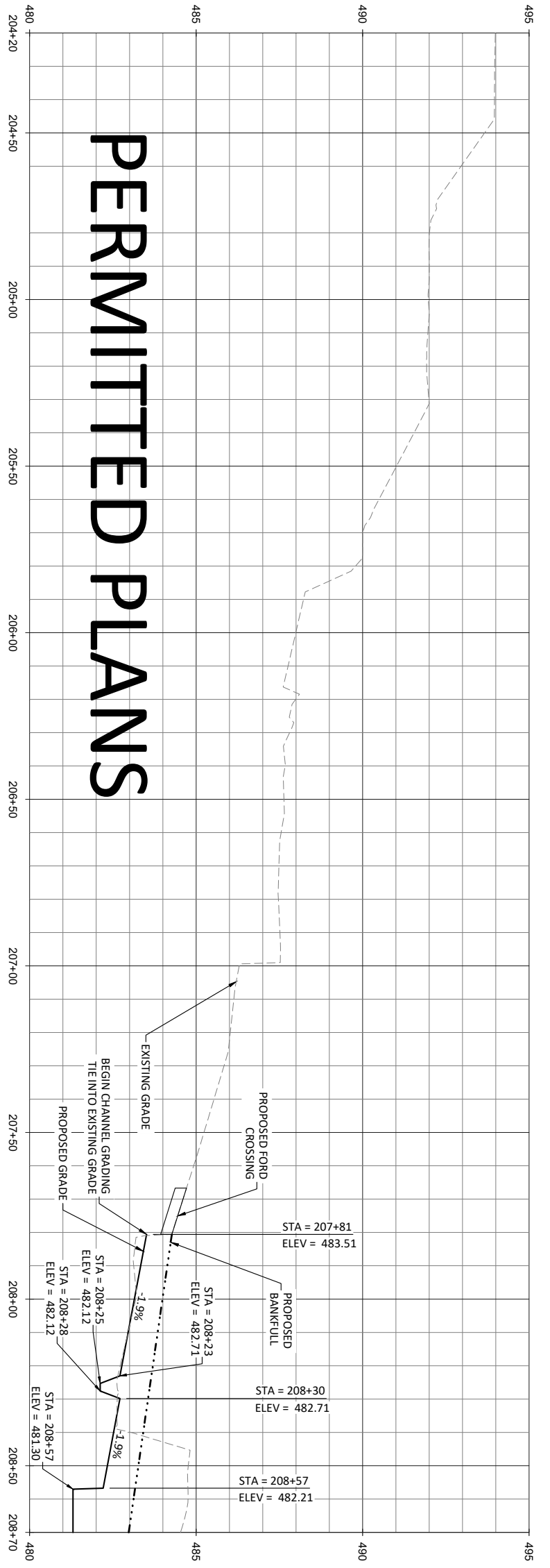
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT1 Reach 9
PCN

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION

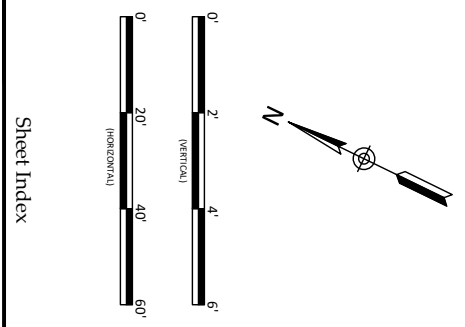
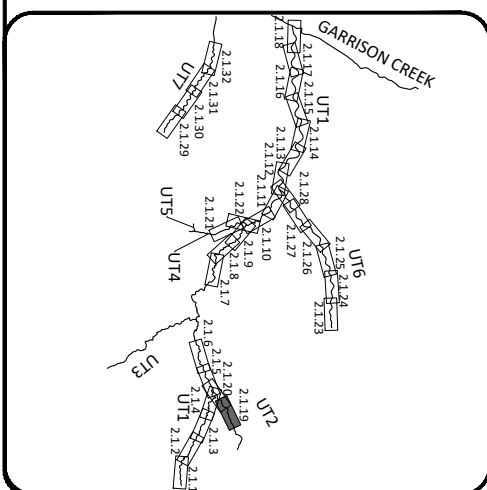
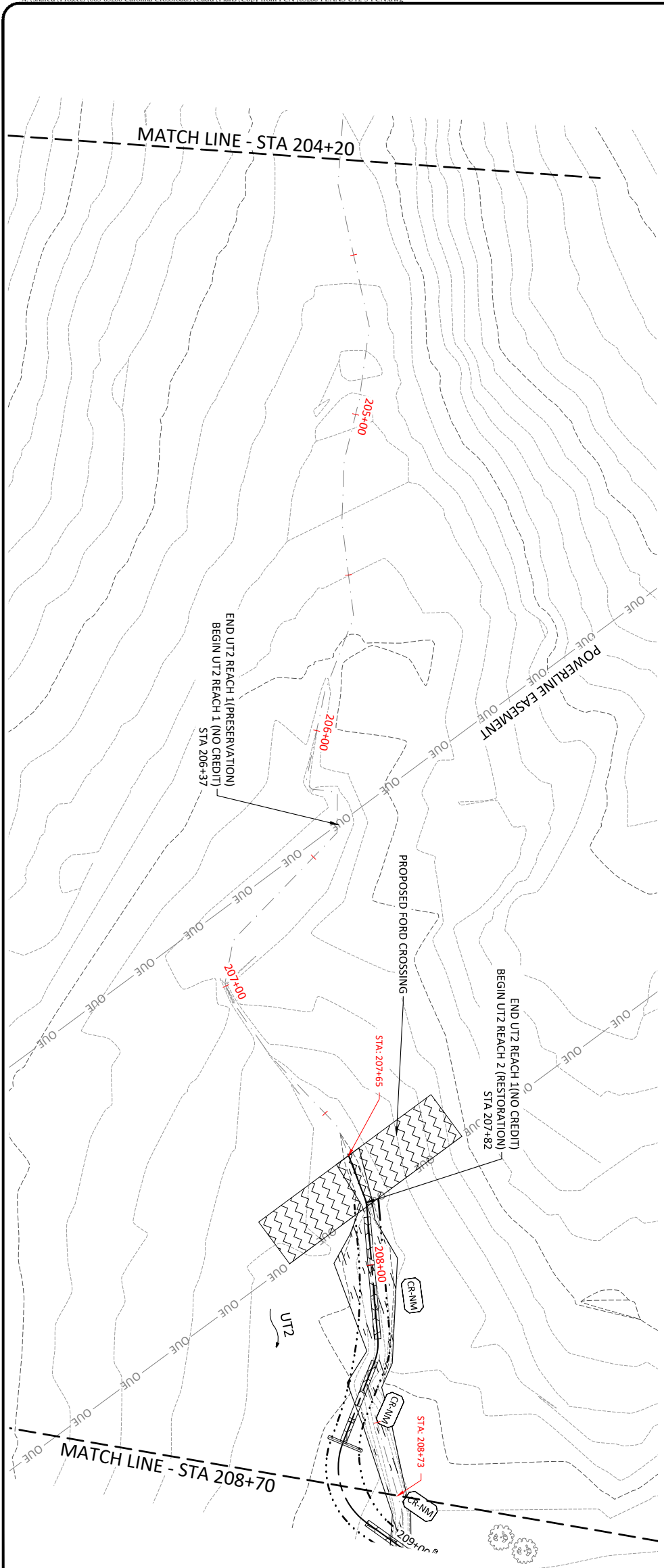
497 Bramson Ct, Suite 104
Mount Pleasant, SC 29464
Tel: 843.277.6221
Fax: 843.212.2101

2.1.18



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	108	0.95	103 CV



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

Revisions:	

Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

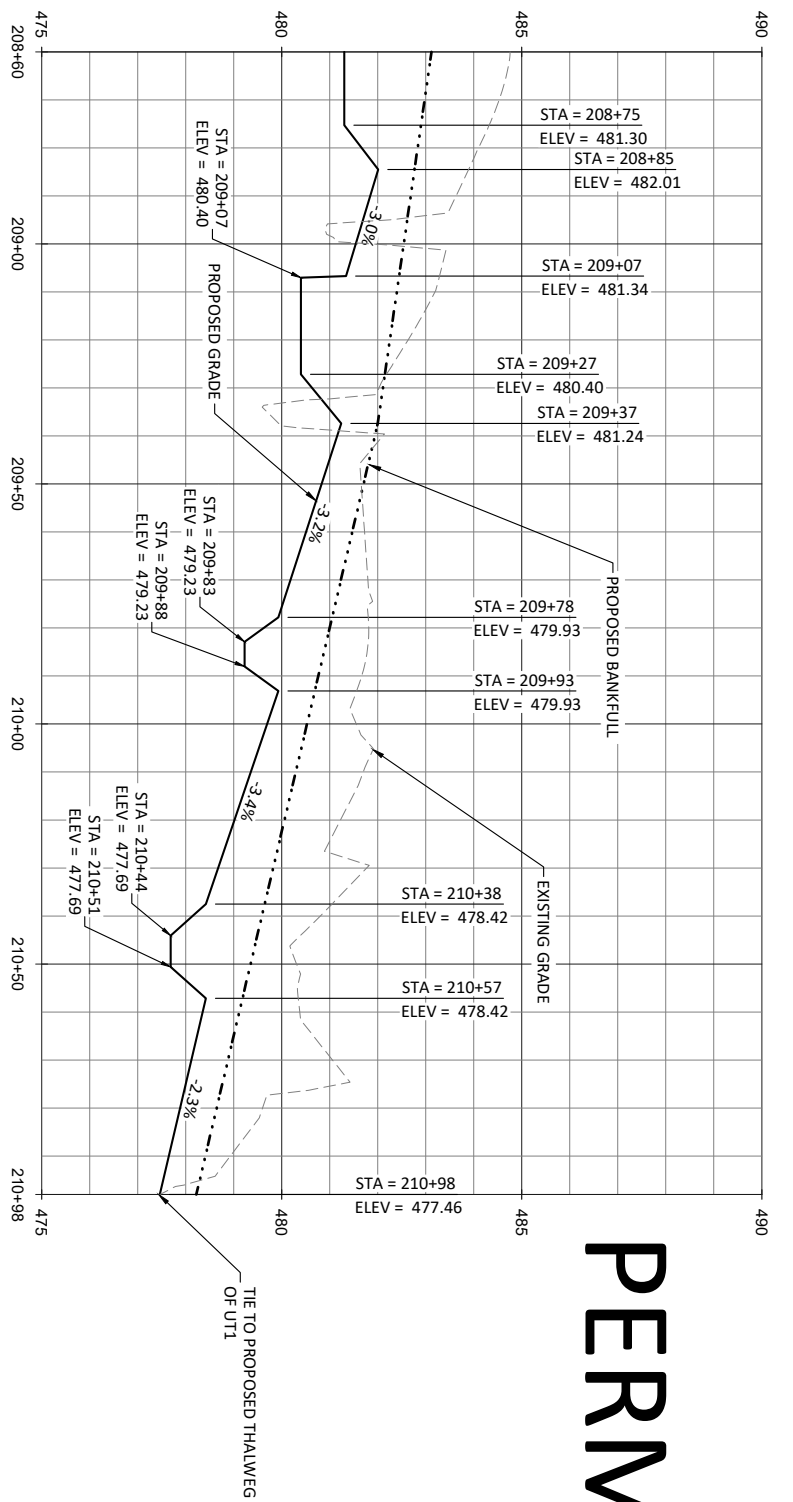
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PRELIMINARY
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USE FOR
CONSTRUCTION

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ENGINEERING

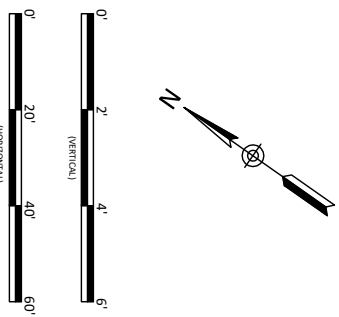
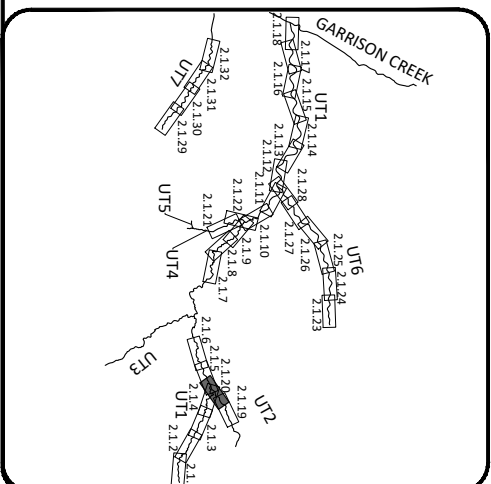
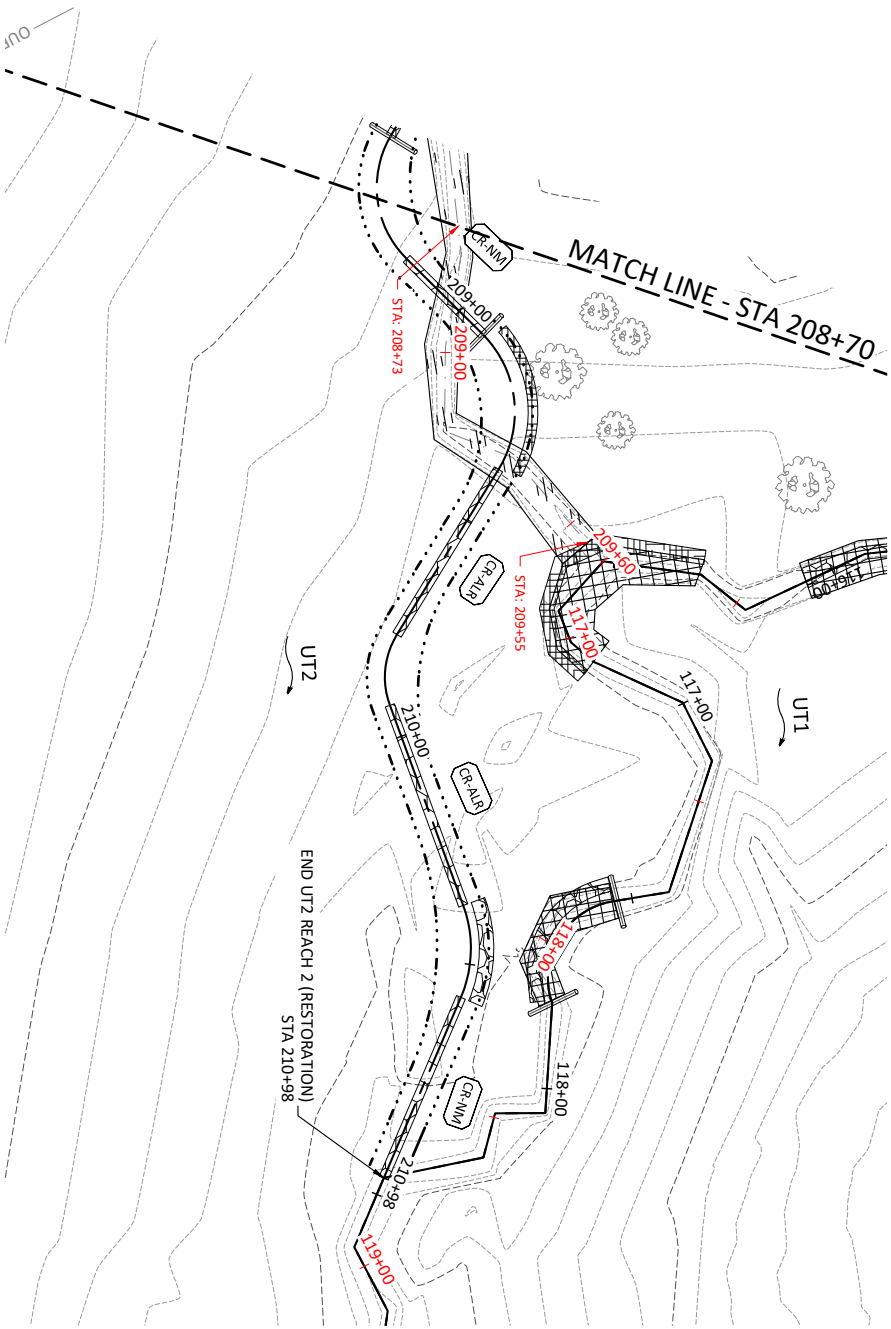
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Mount Pleasant, SC 29464
Tel: 843.277.6221
Fax: 843.212.2101

2.1.19



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	82	0.95	78 CY



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Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT2 Reach 2
PCN

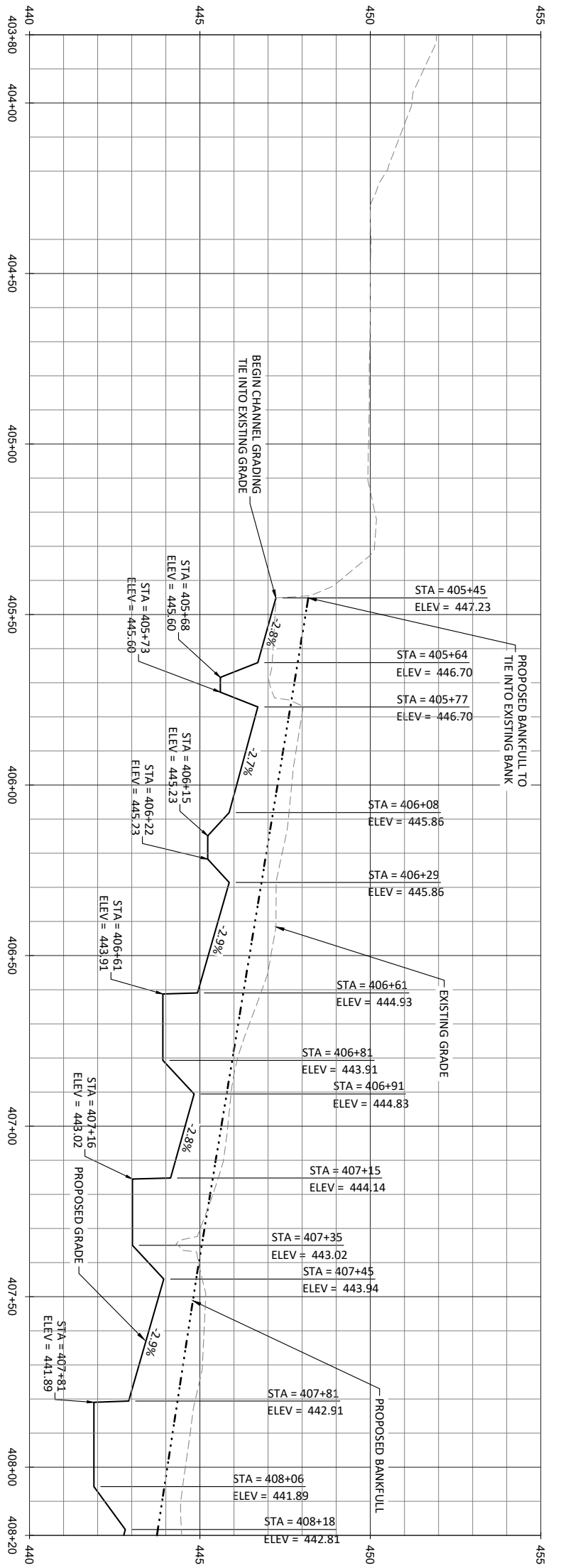
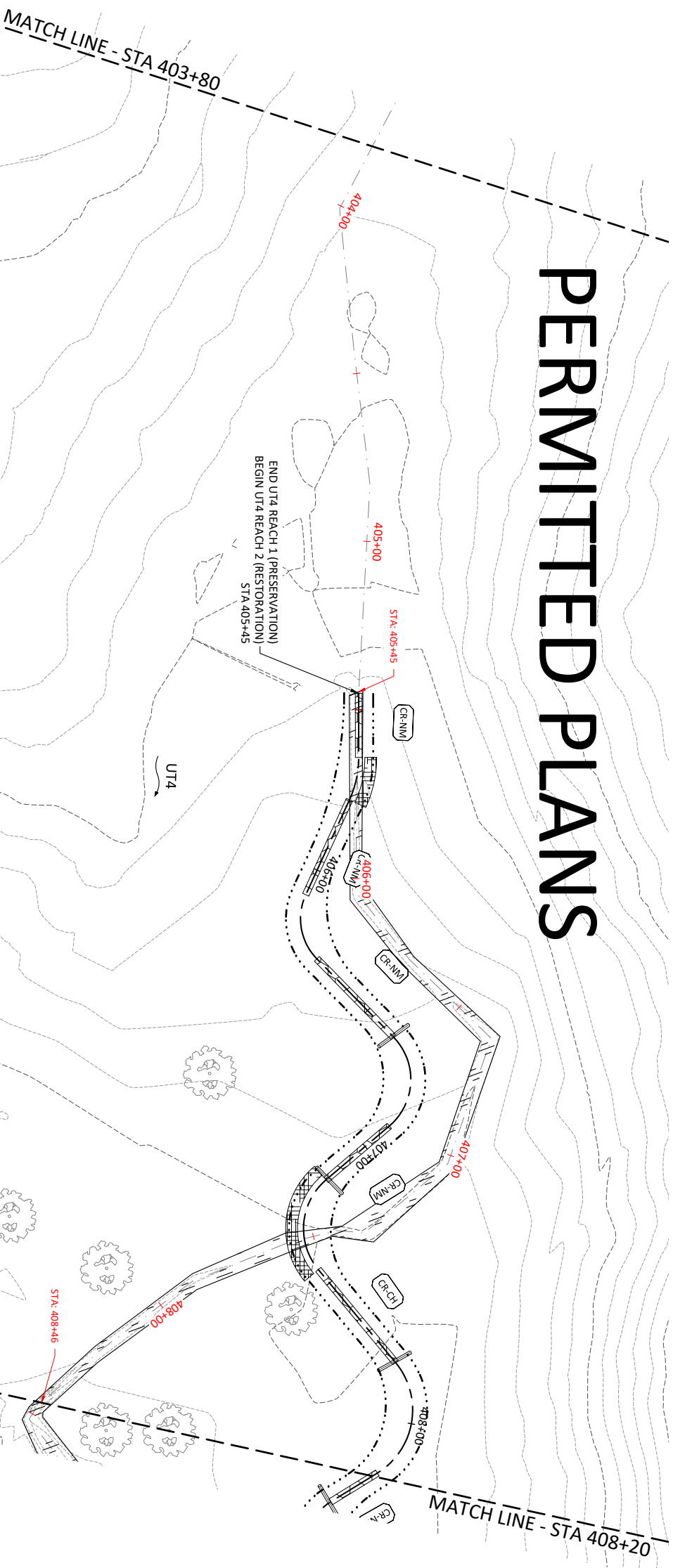
PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION

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ENGINEERING
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Mount Pleasant, SC 29464
Tel: 843.277.6221
Fax: 843.212.2101

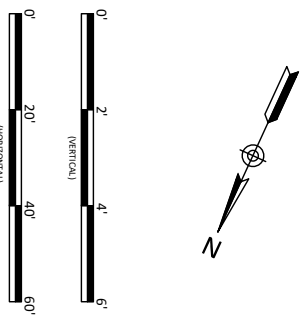
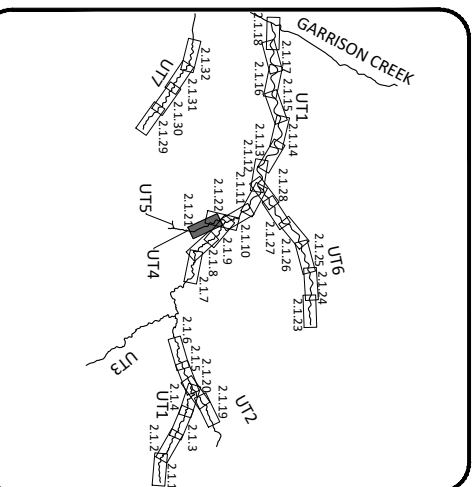
Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

2.1.20

PERMITTED PLANS



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	301	0.95	286 CY



Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

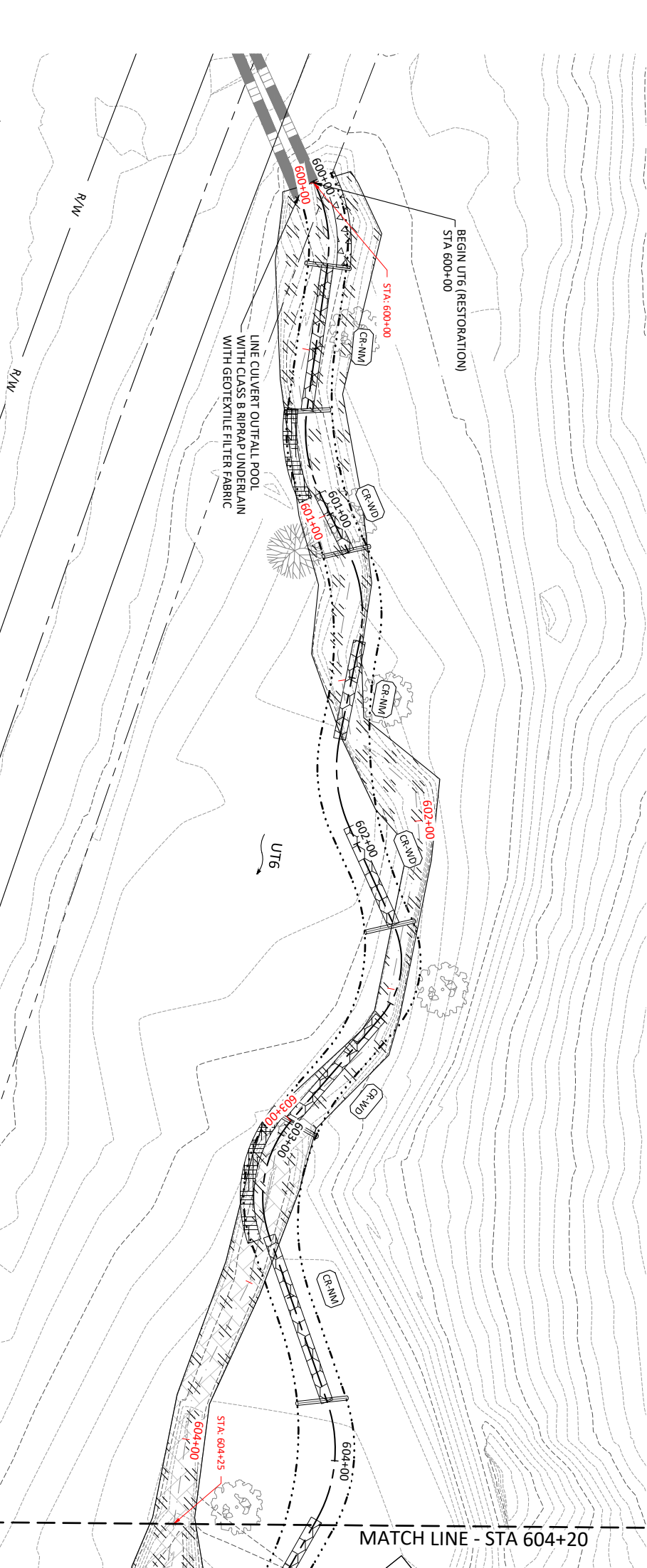
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DO NOT
USE FOR
CONSTRUCTION

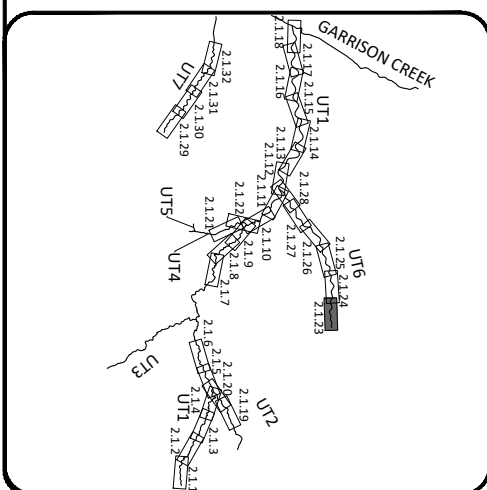
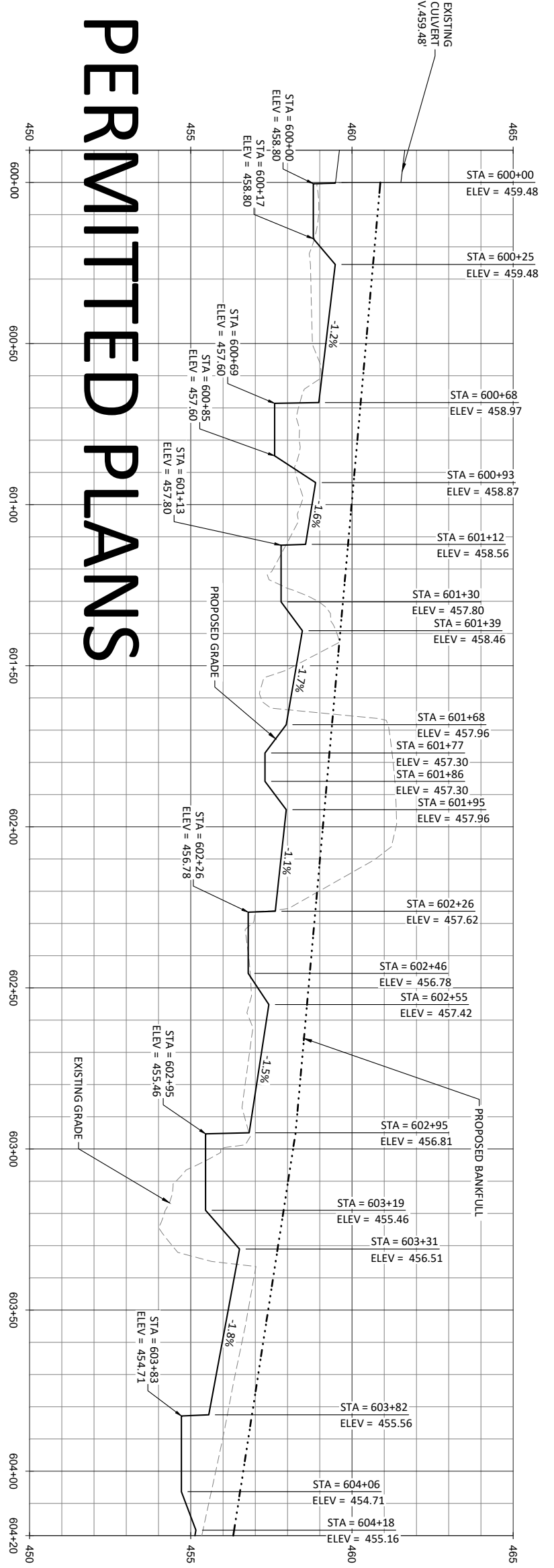
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497 Bramson Ct, Suite 104
Mount Pleasant, SC 29464
Tel: 843.277.6221
Fax: 843.212.2101

Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

2.1.21



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	425	0.95	404 CY



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

Revisions:	

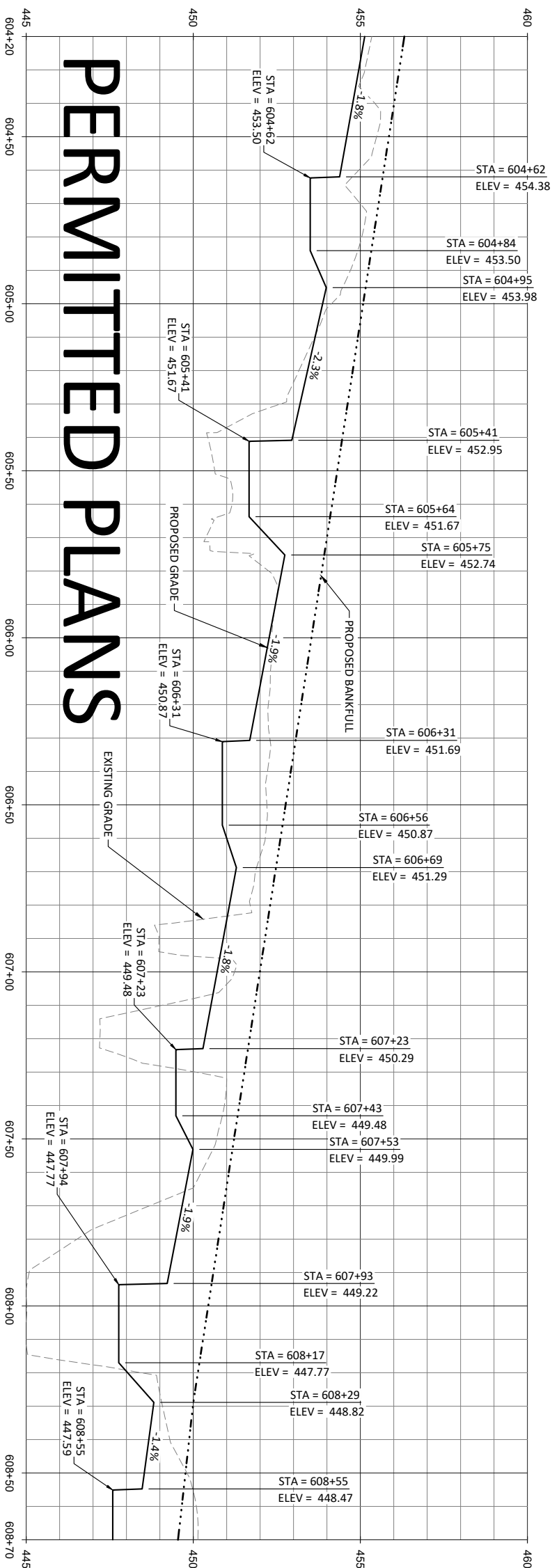
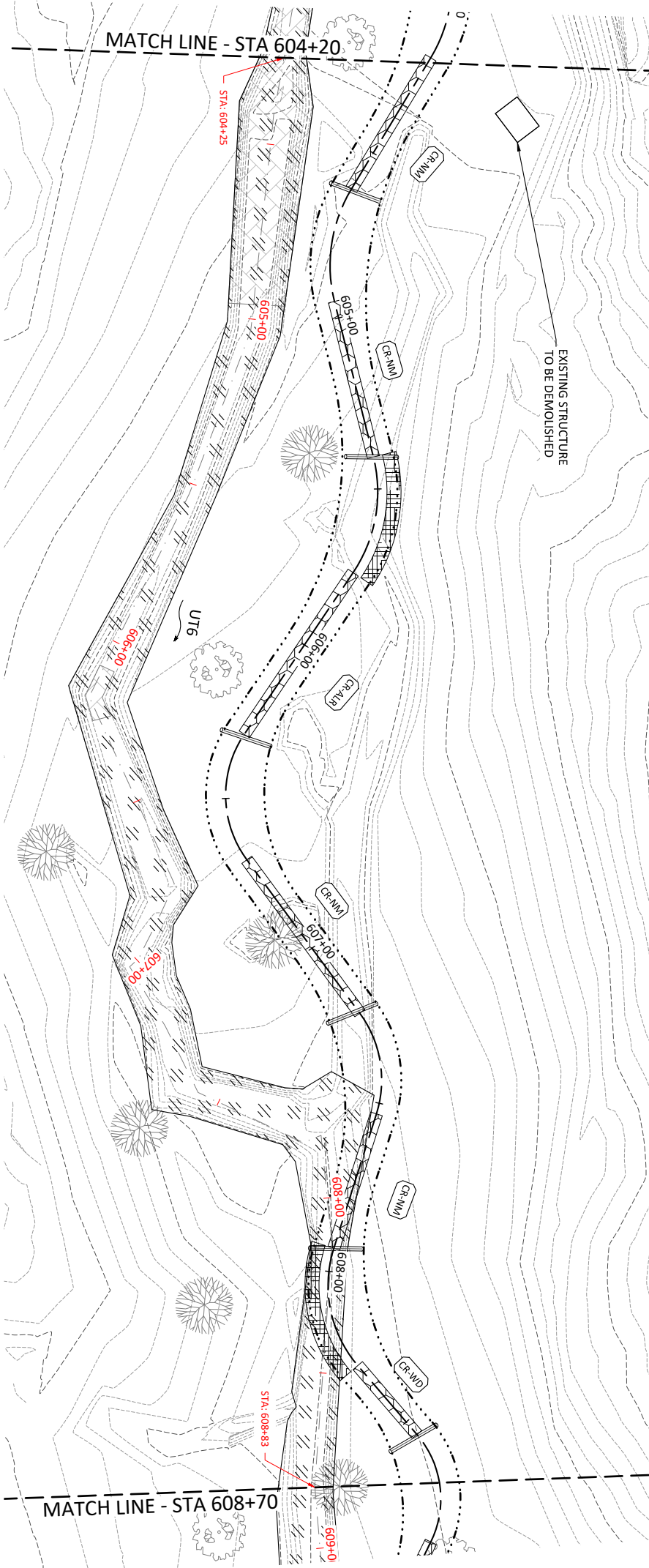
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT6
PCN

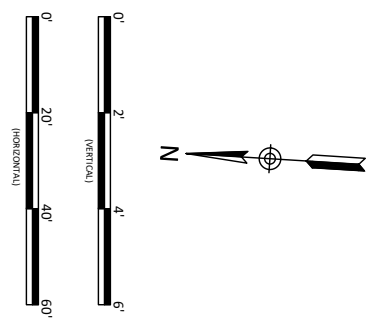
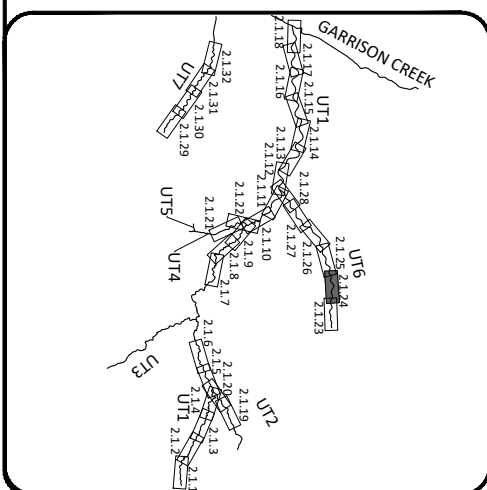
PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION

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2.1.23



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	458	0.95	435 CV



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

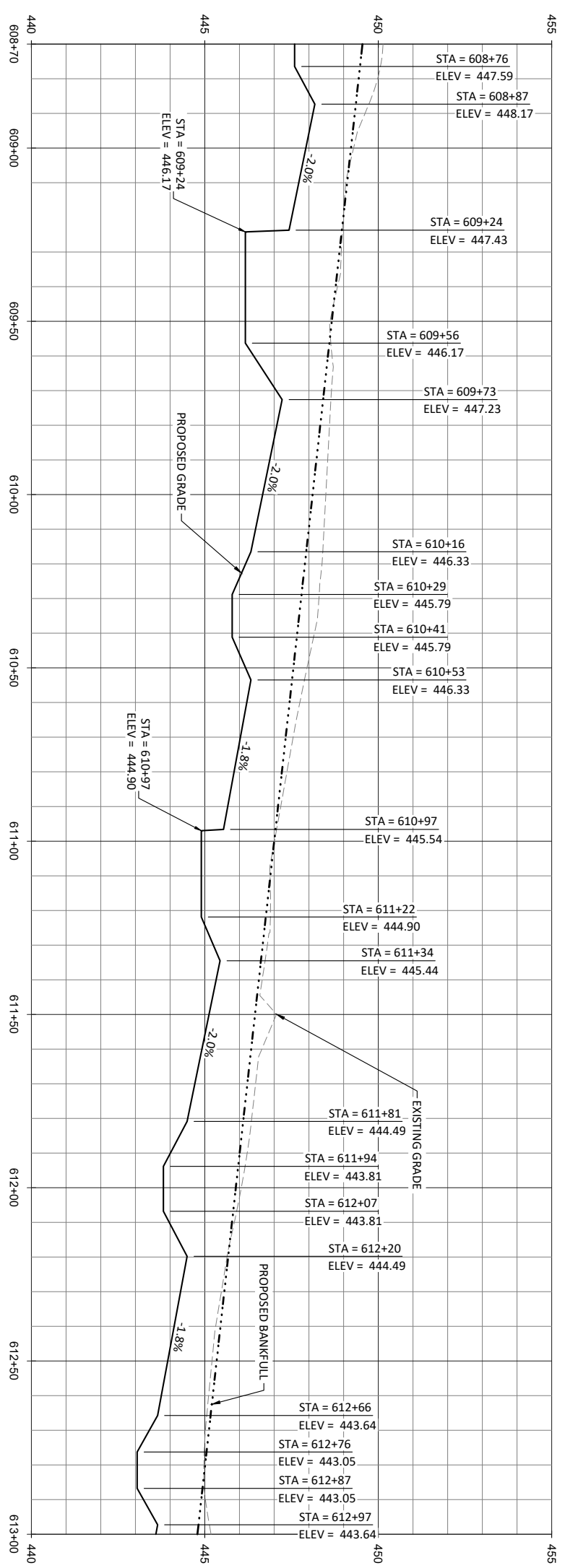
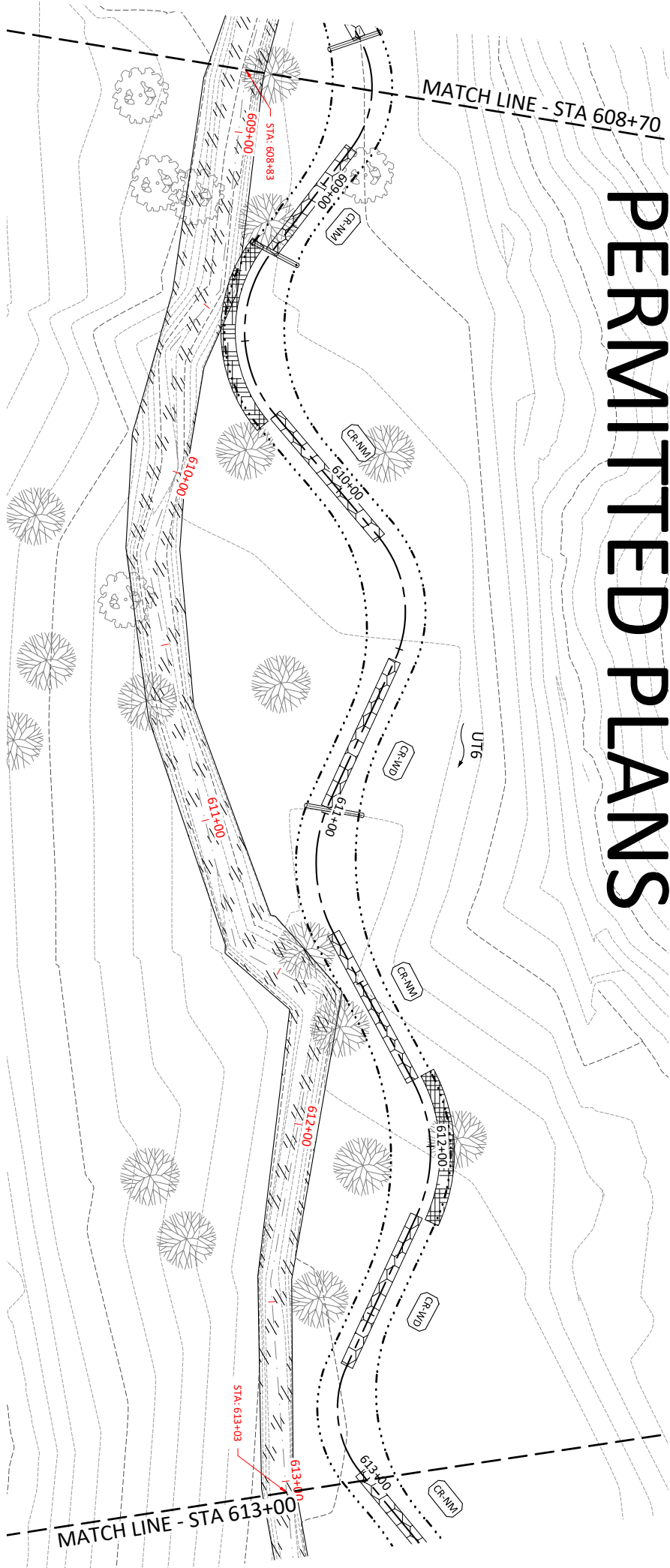
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PCN

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION

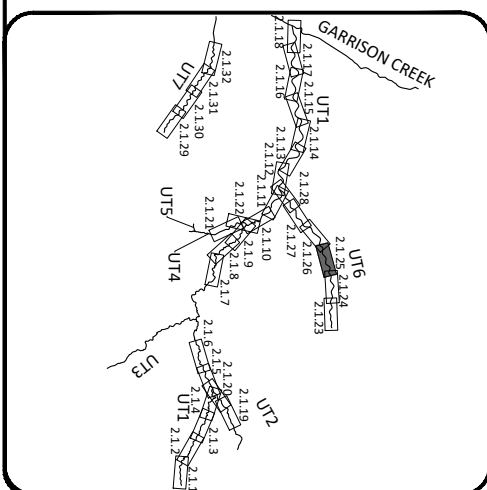
497 Bramson Ct, Suite 104
Mount Pleasant, SC 29464
Tel: 843.277.6221
Fax: 843.212.2101

2.1.24

PERMITTED PLANS



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	420	0.95	399 CY



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

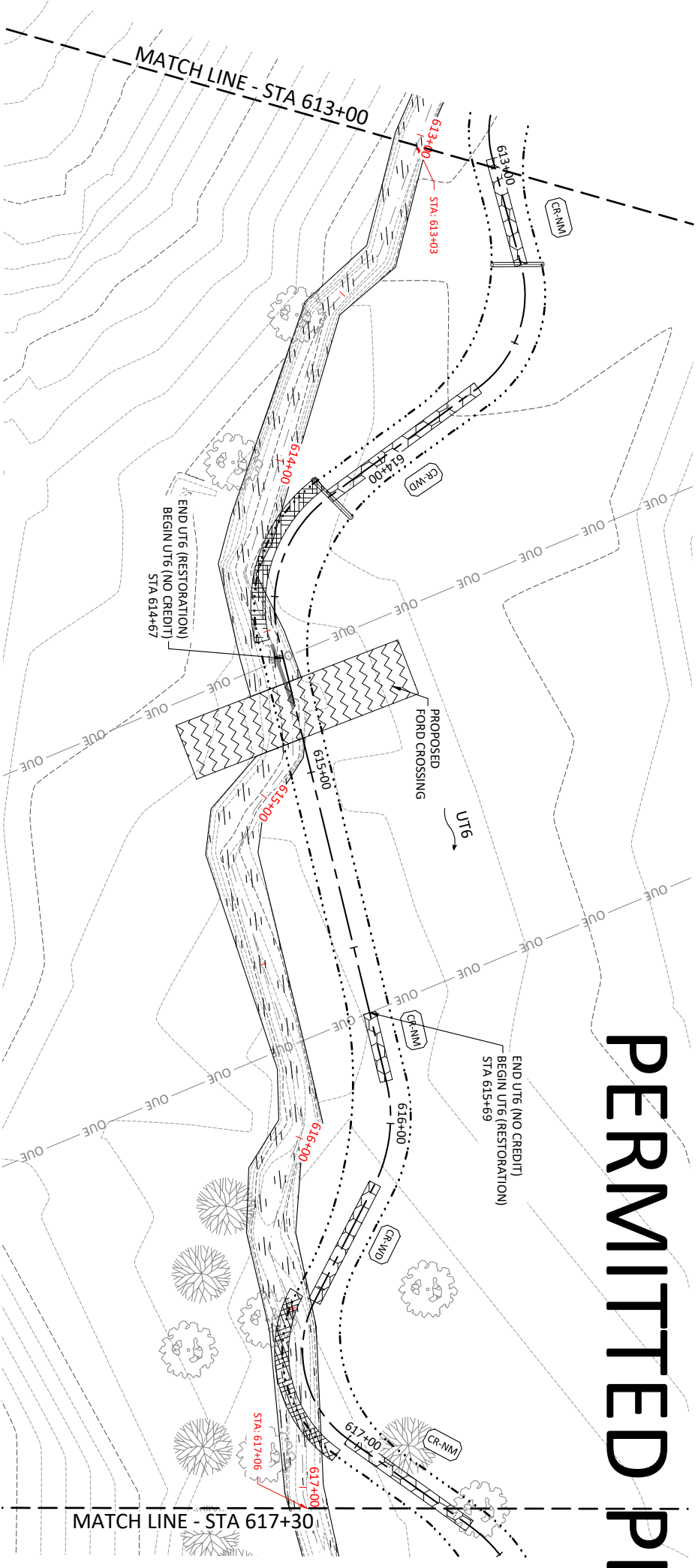
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT6
PCN

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION

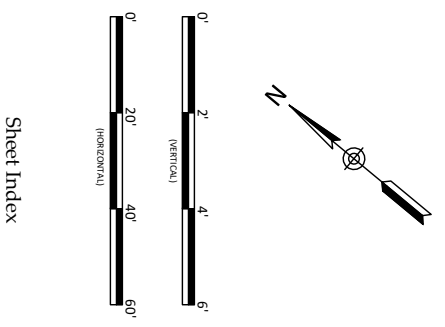
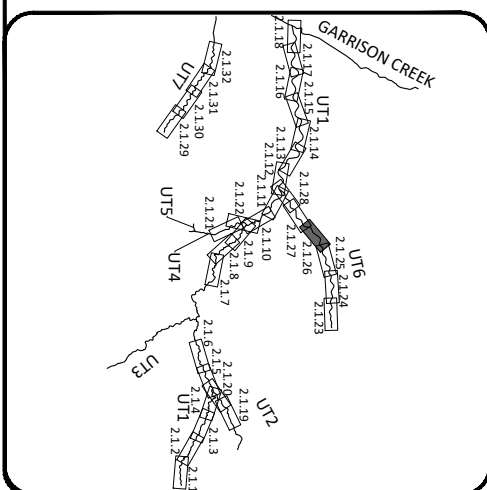
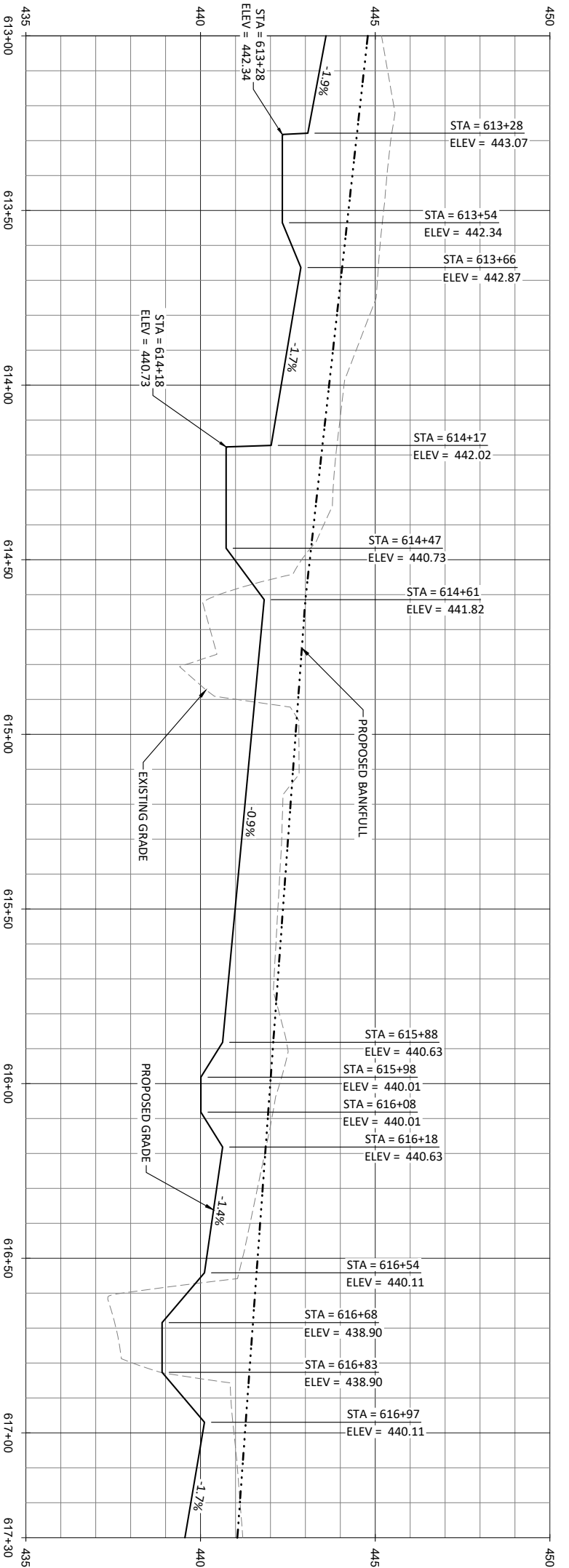
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2.1.25



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	403	0.95	383 CV



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

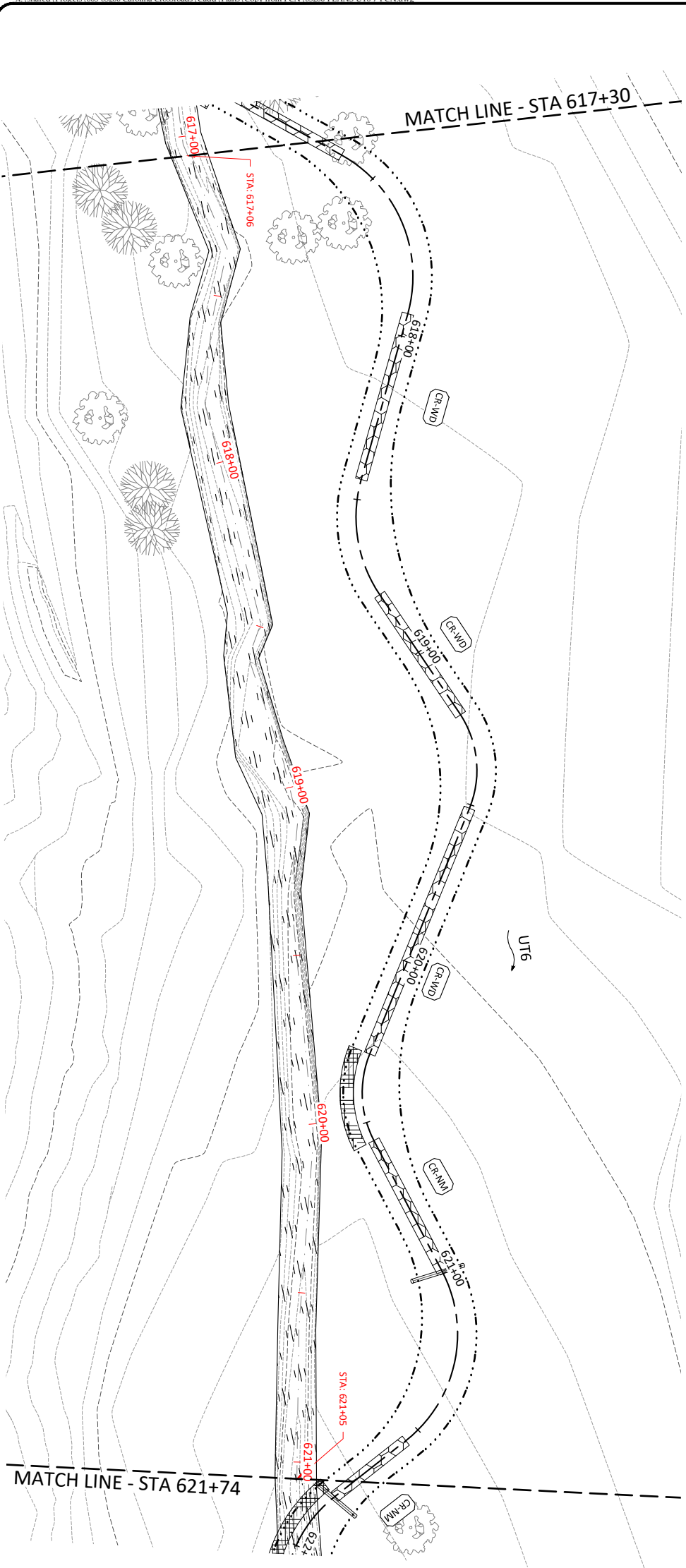
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Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

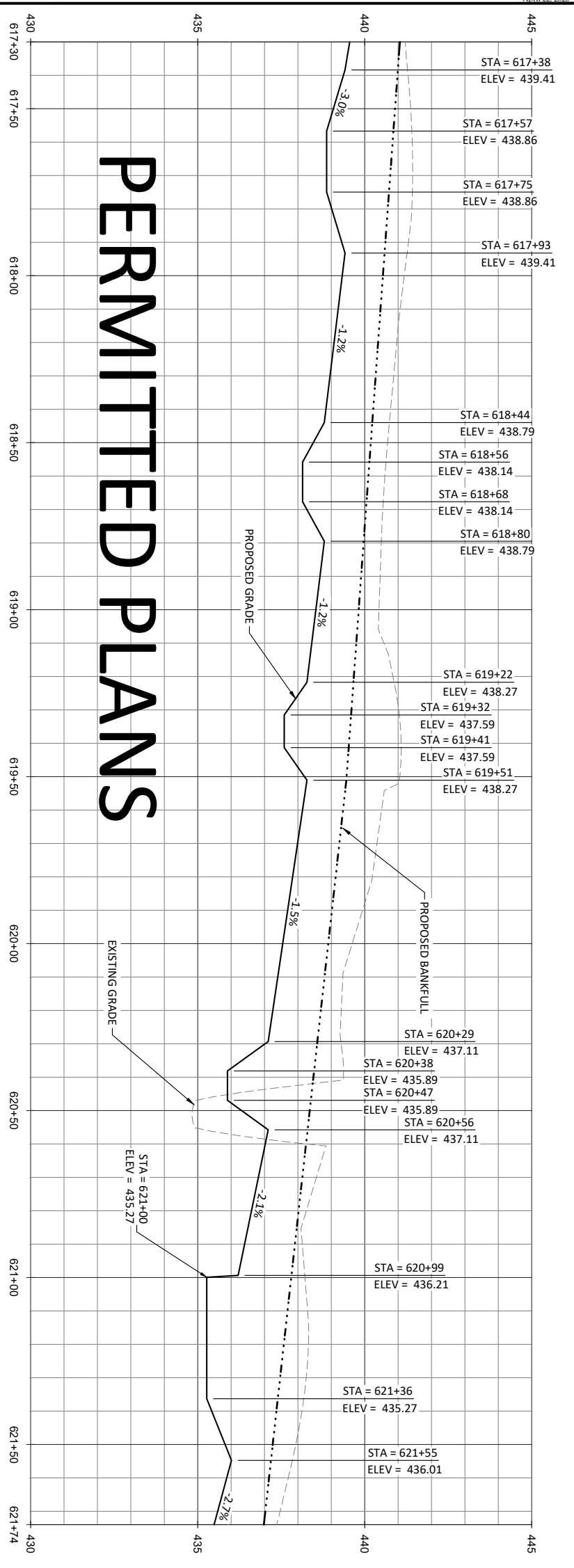
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DO NOT
USE FOR
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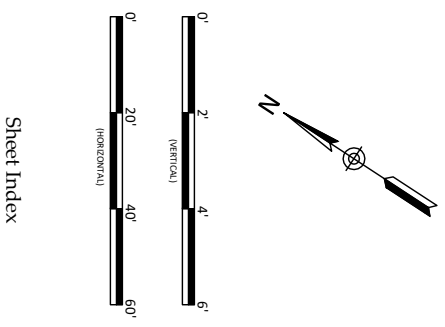
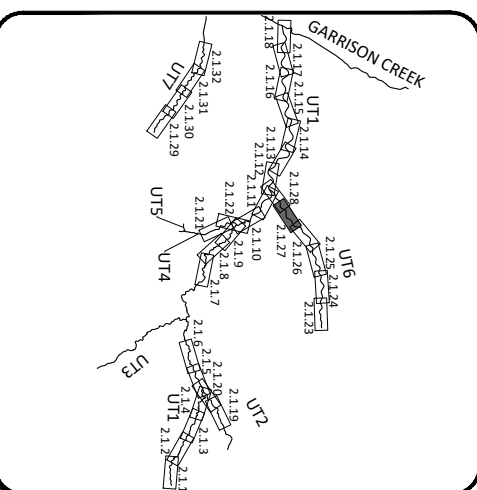
497 Bramson Ct, Suite 104
Mount Pleasant, SC 29464
Tel: 843.277.6221
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	399	0.95	379 CV



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MJC
 Checked By: DHJ

Revisions:

Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

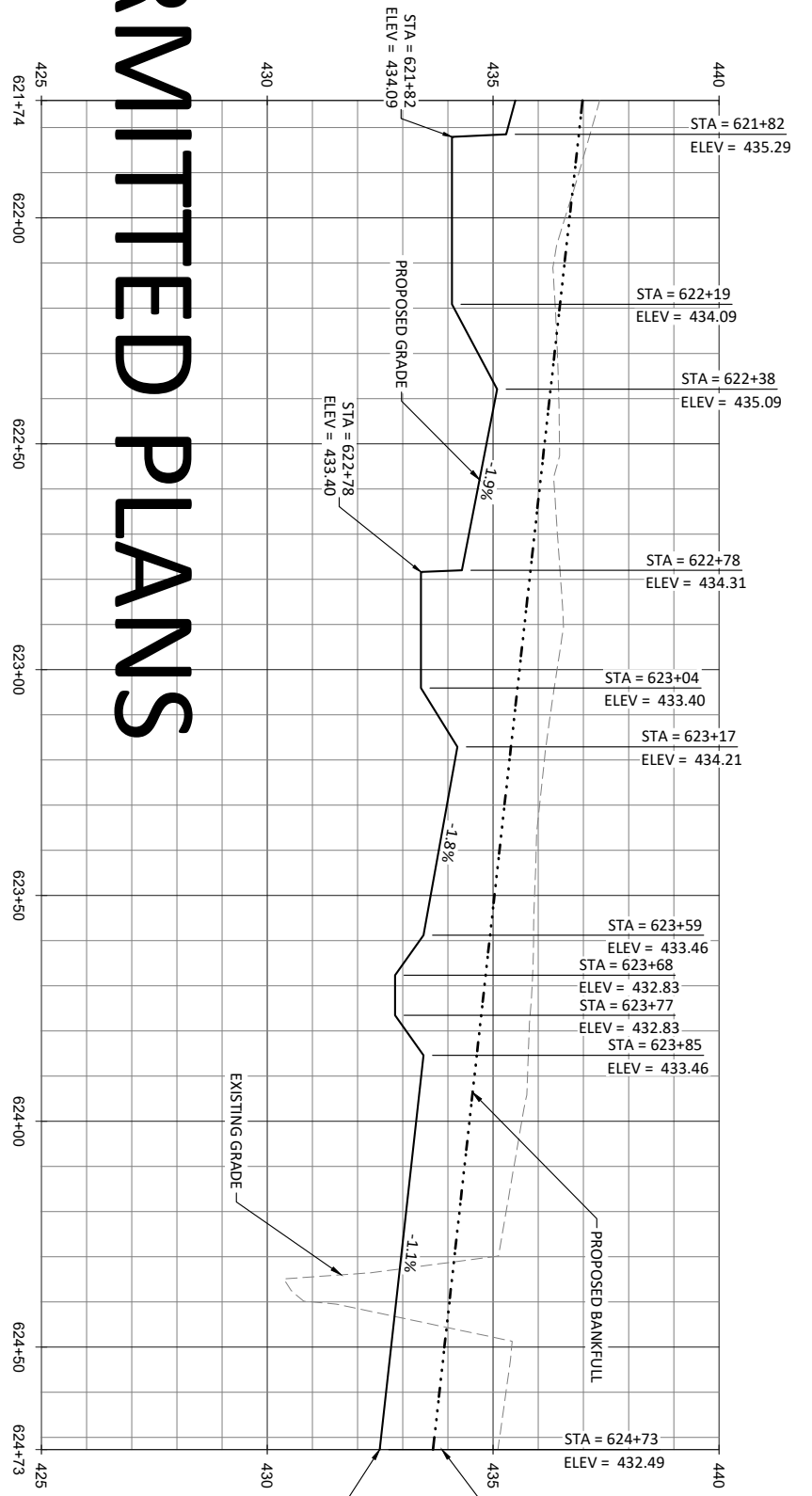
UT6
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PRELIMINARY
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 USE FOR
 CONSTRUCTION

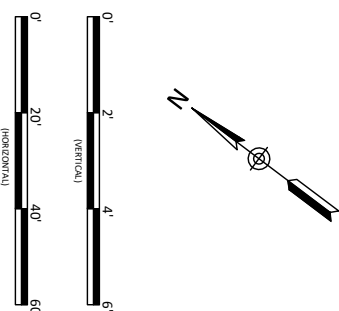
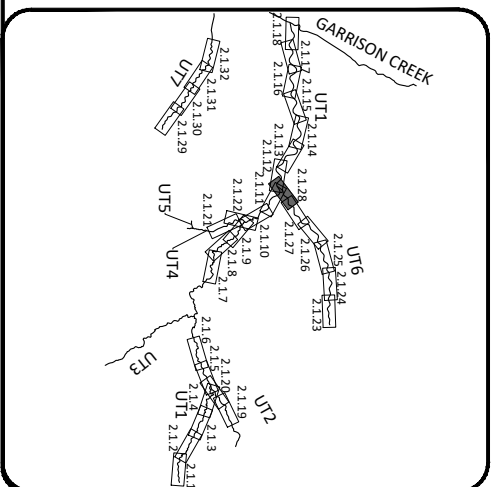
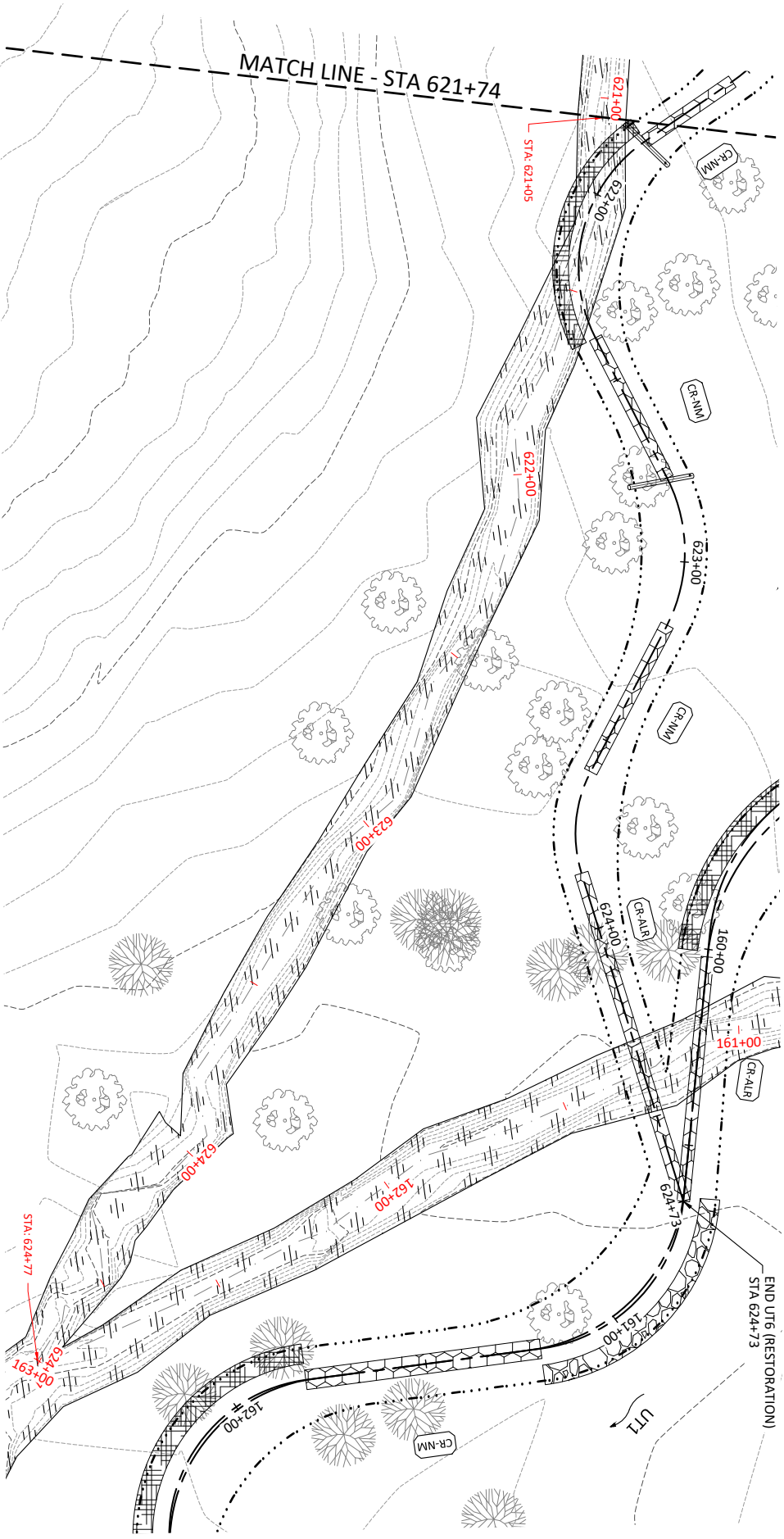
497 Bramson Ct, Suite 104
 Mount Pleasant, SC 29464
 Tel: 843.277.6221
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2.1.27

PERMITTED PLANS



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	372	0.95	353 CV



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

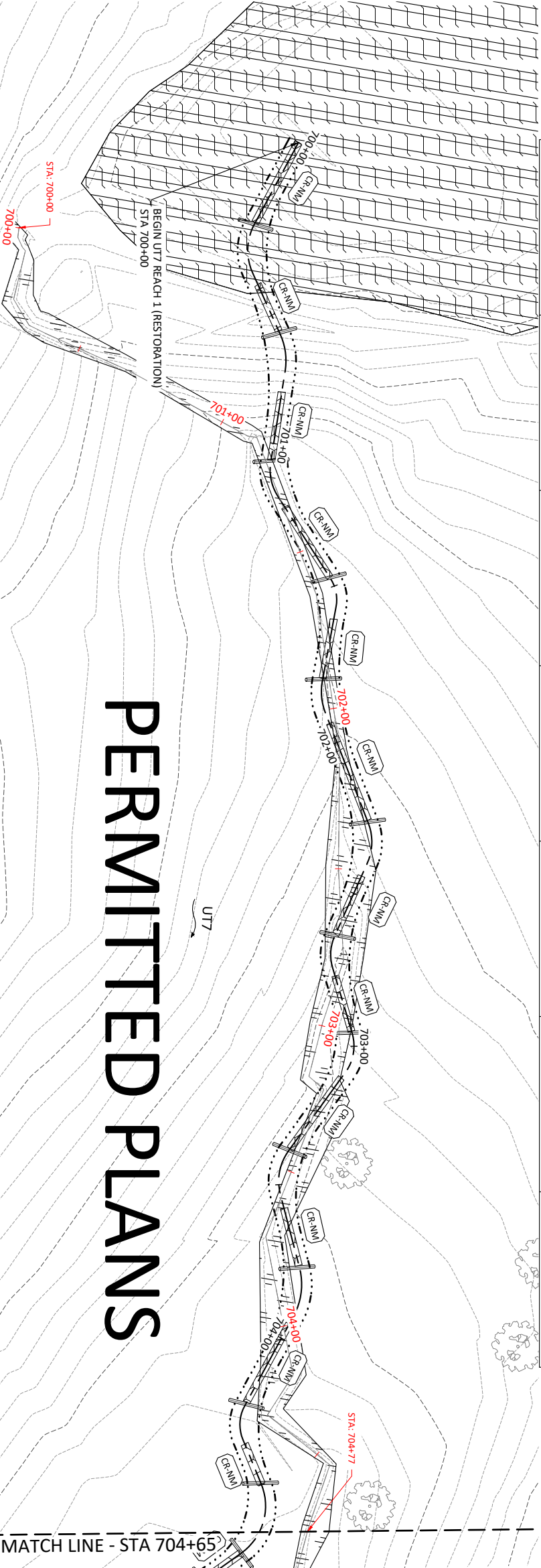
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT6
PCN

PRELIMINARY
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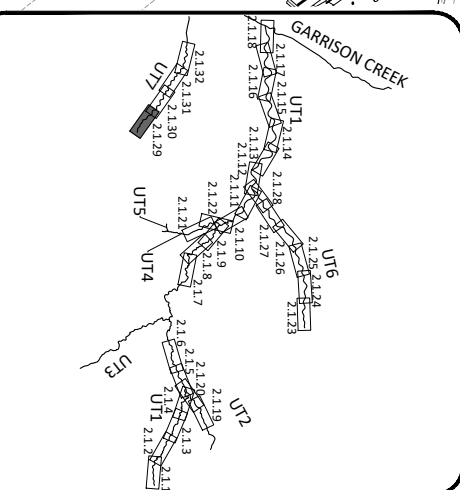
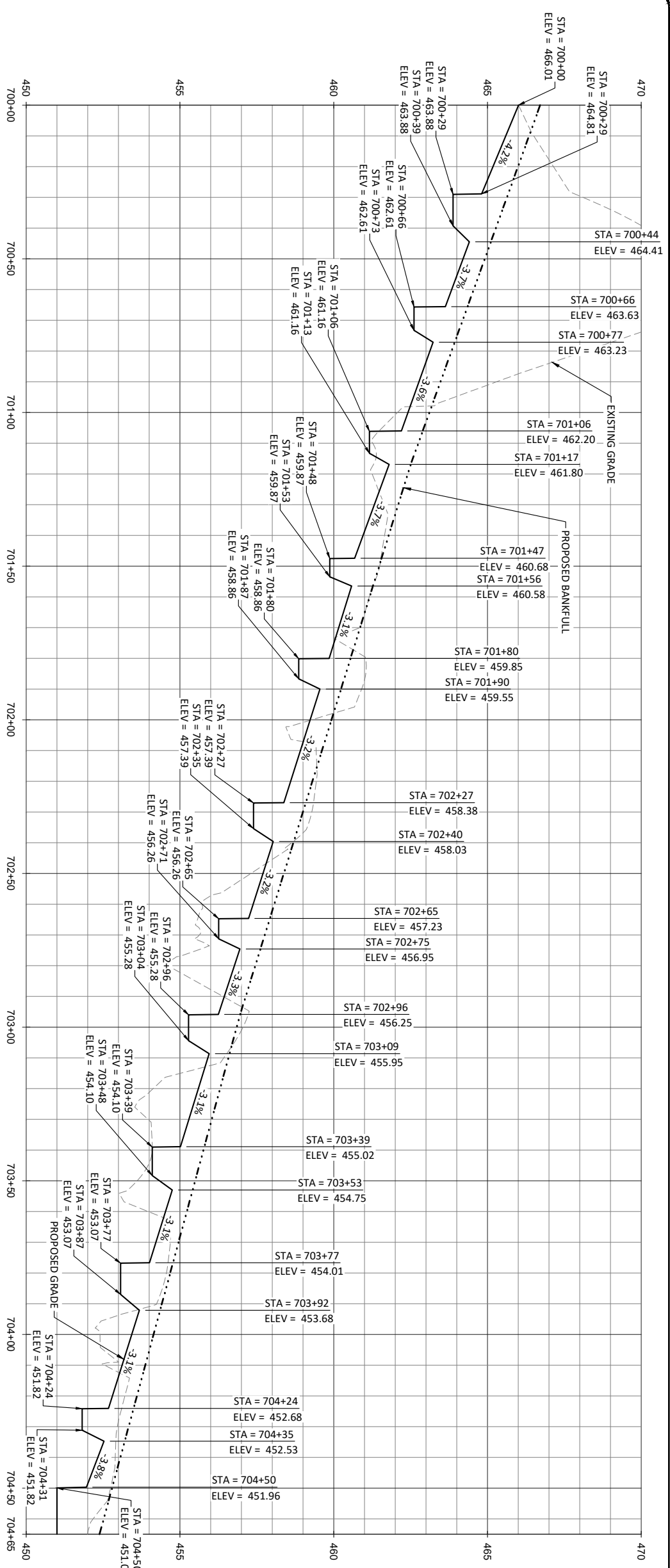
497 Bramson Ct, Suite 104
Mount Pleasant, SC 29464
Tel: 843.277.6221
Fax: 843.212.2101

2.1.28



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
1	Mannadie Pond Removal	N/A	Dewatering	N/A	N/A	0.390 ACRES
4	Off-line Channel Construction	12	Soil Fill	477	0.95	453 CV



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

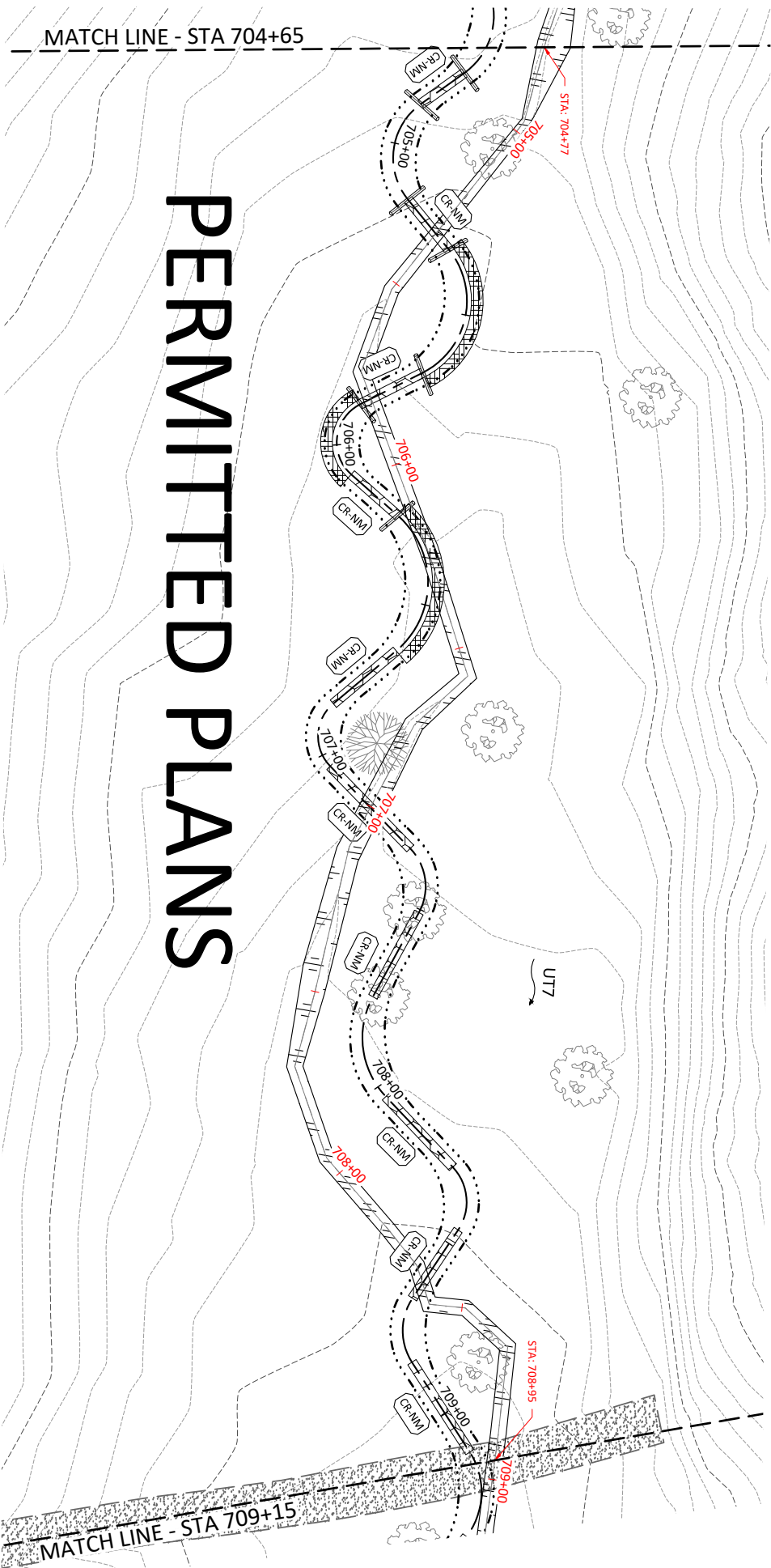
UT7 Reach 1
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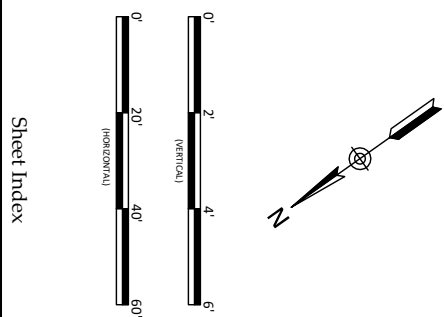
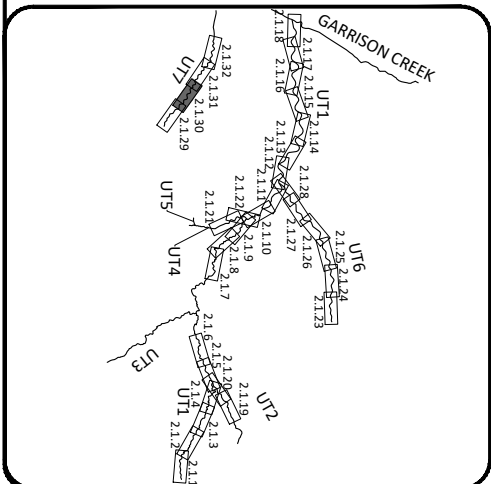
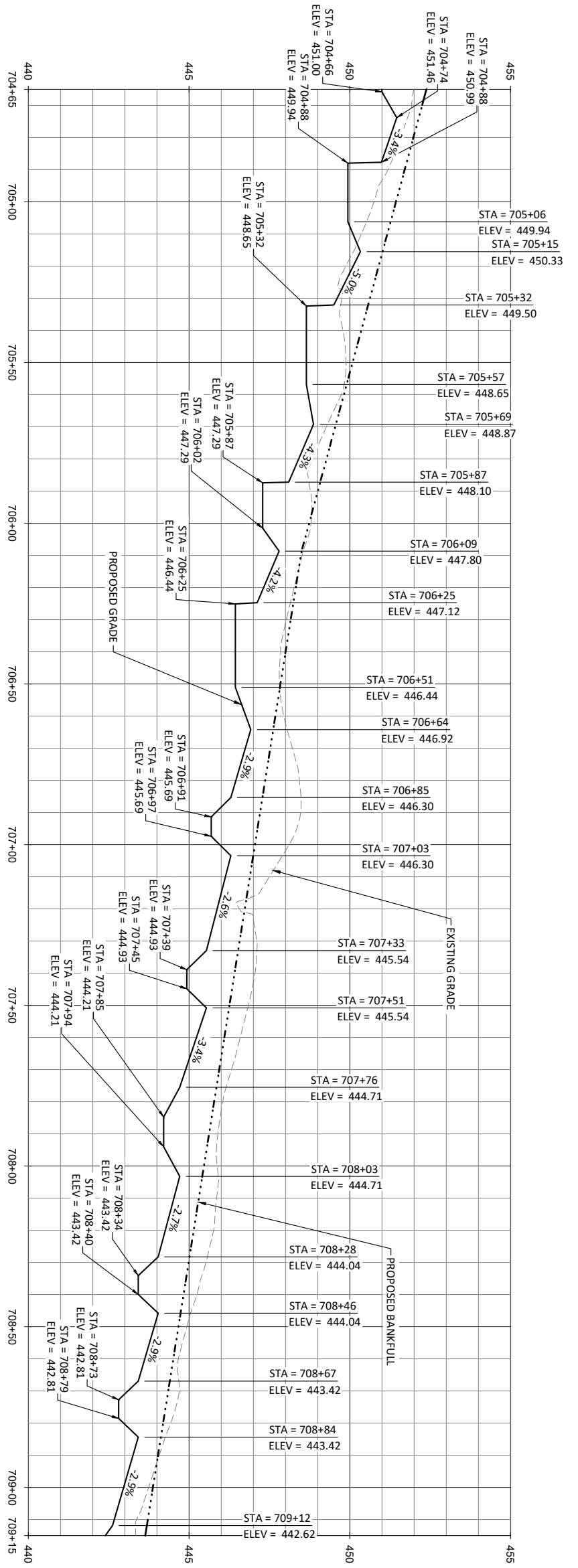
MATCH LINE - STA 704+65

PERMITTED PLANS



MATCH LINE - STA 709+15

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	418	0.95	397 CY



Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

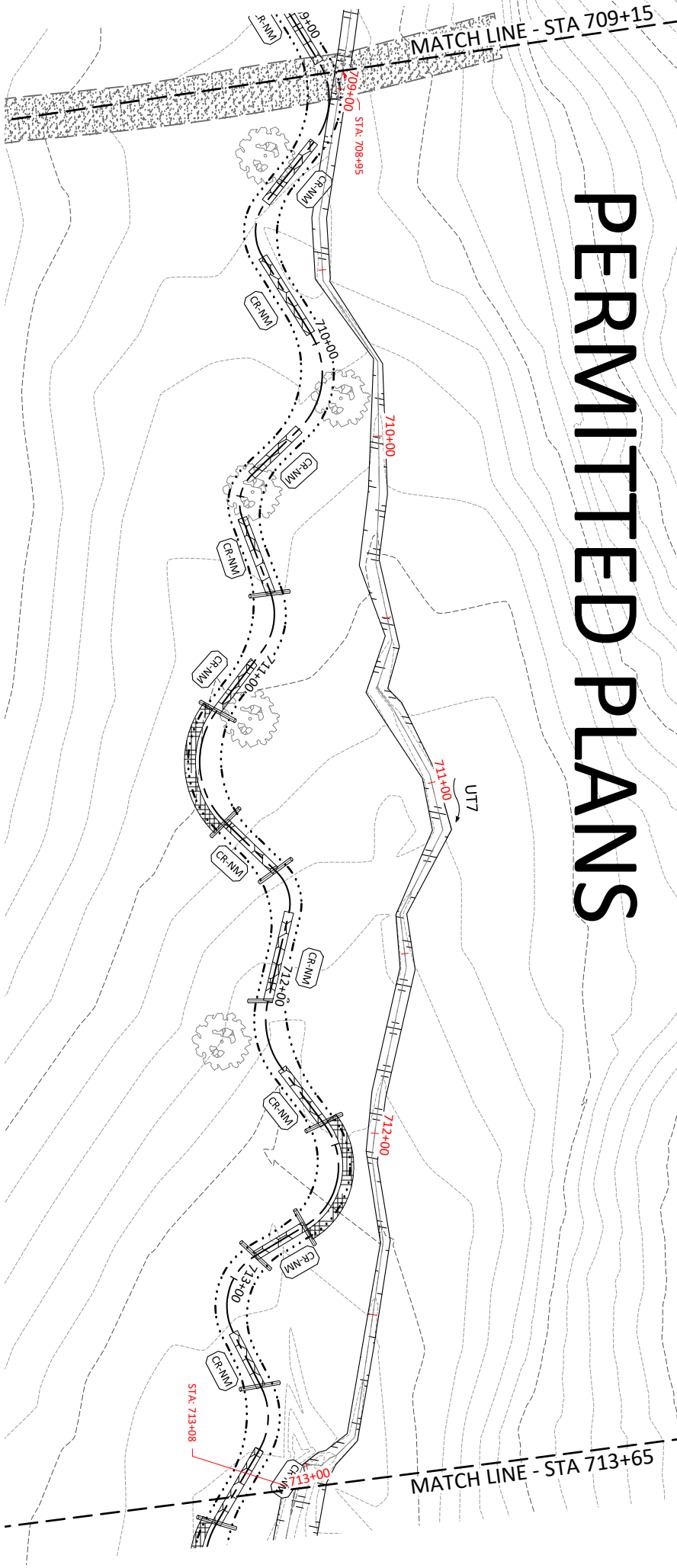
Revisions

Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT7 Reach 1
PCN

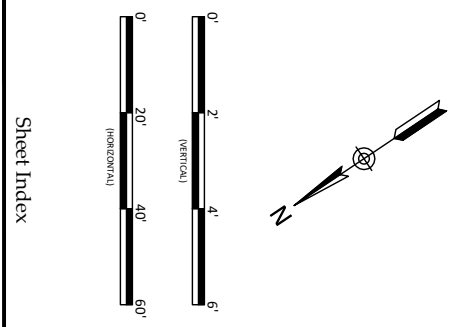
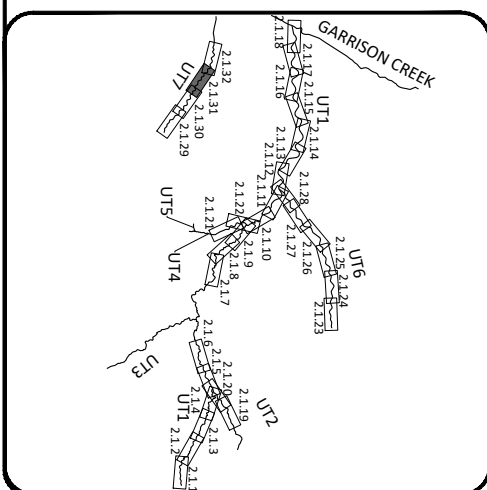
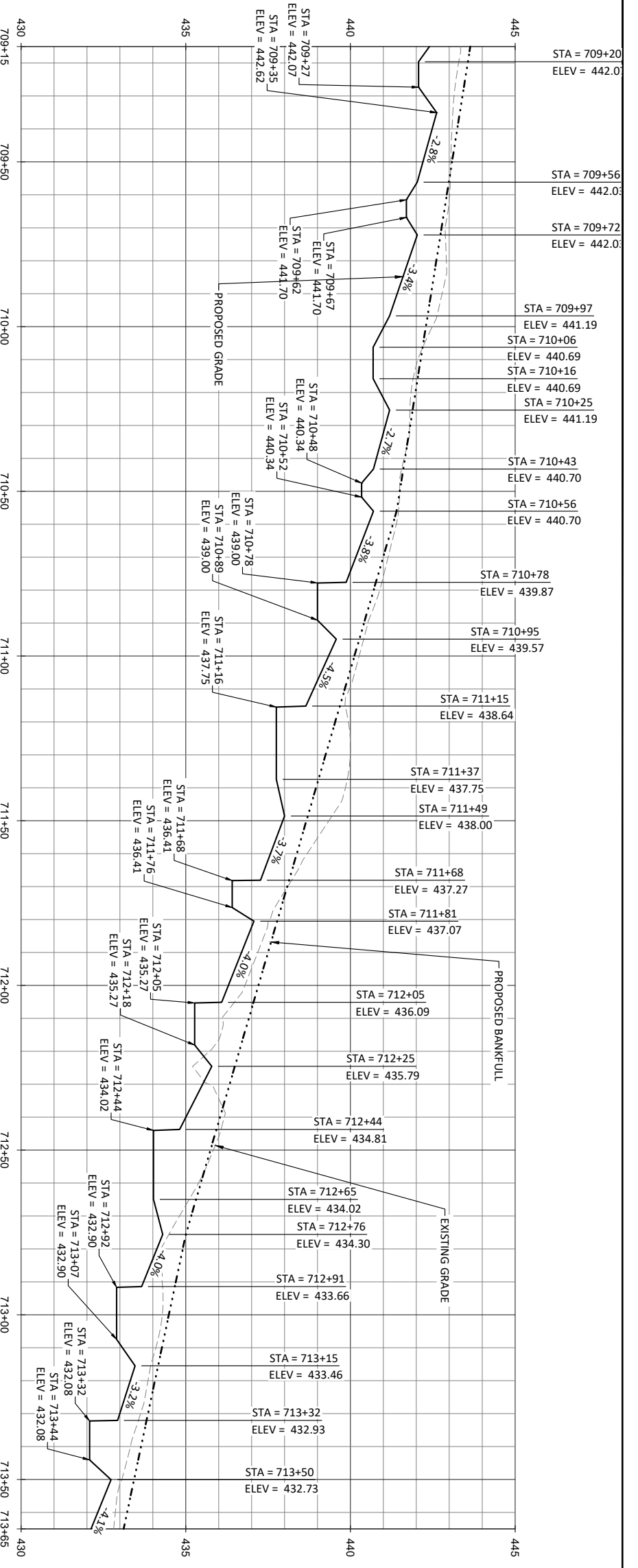
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PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	413	0.95	392 CV



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MJC
Checked By:	DHJ

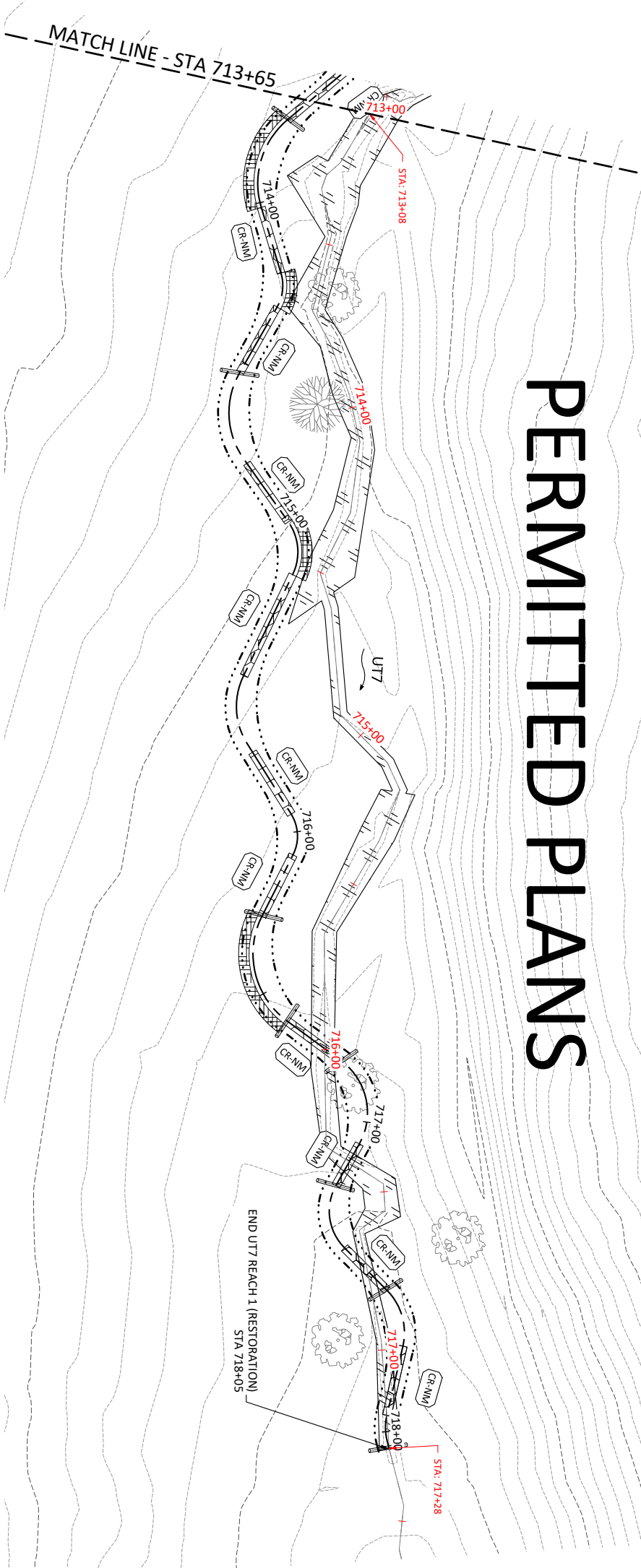
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT7 Reach 1
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CONSTRUCTION

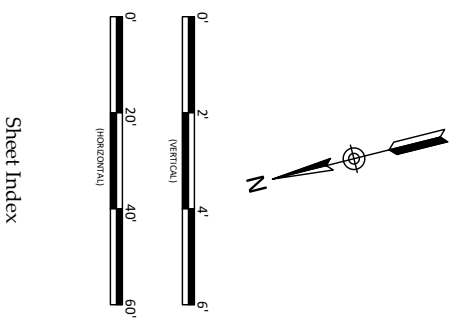
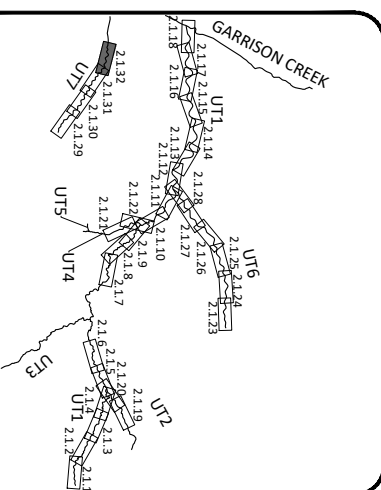
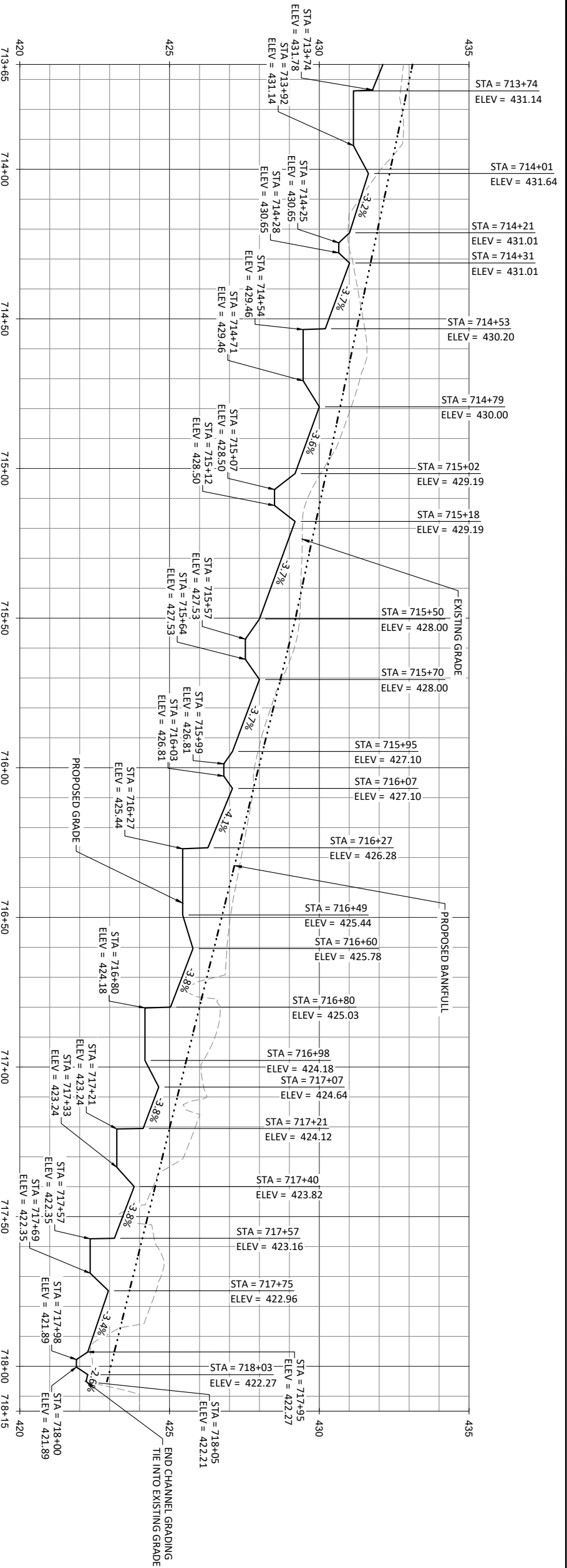
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Mount Pleasant, SC 29464
Tel: 843.277.6221
Fax: 843.212.2101

2.1.31



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	420	0.95	399 CY



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

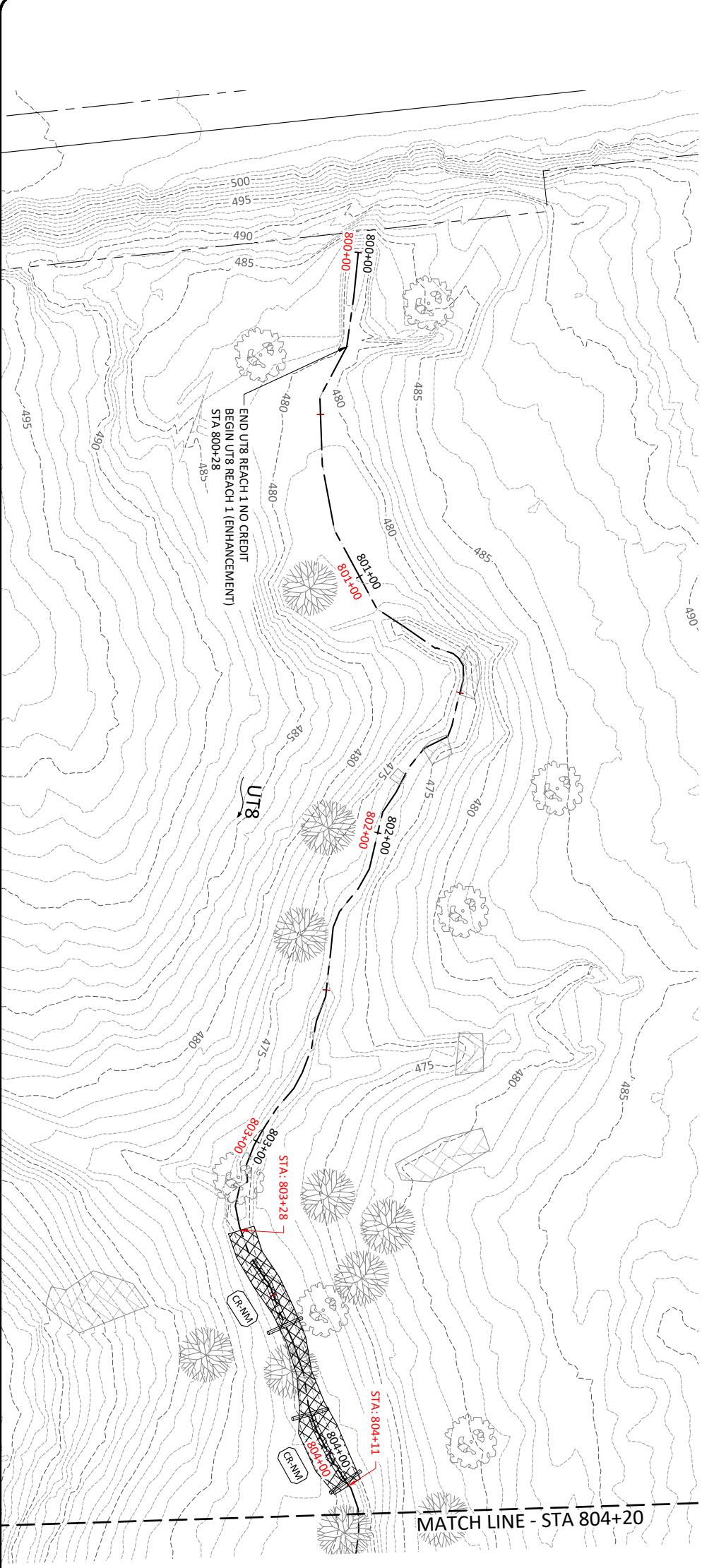
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT7 Reach 1
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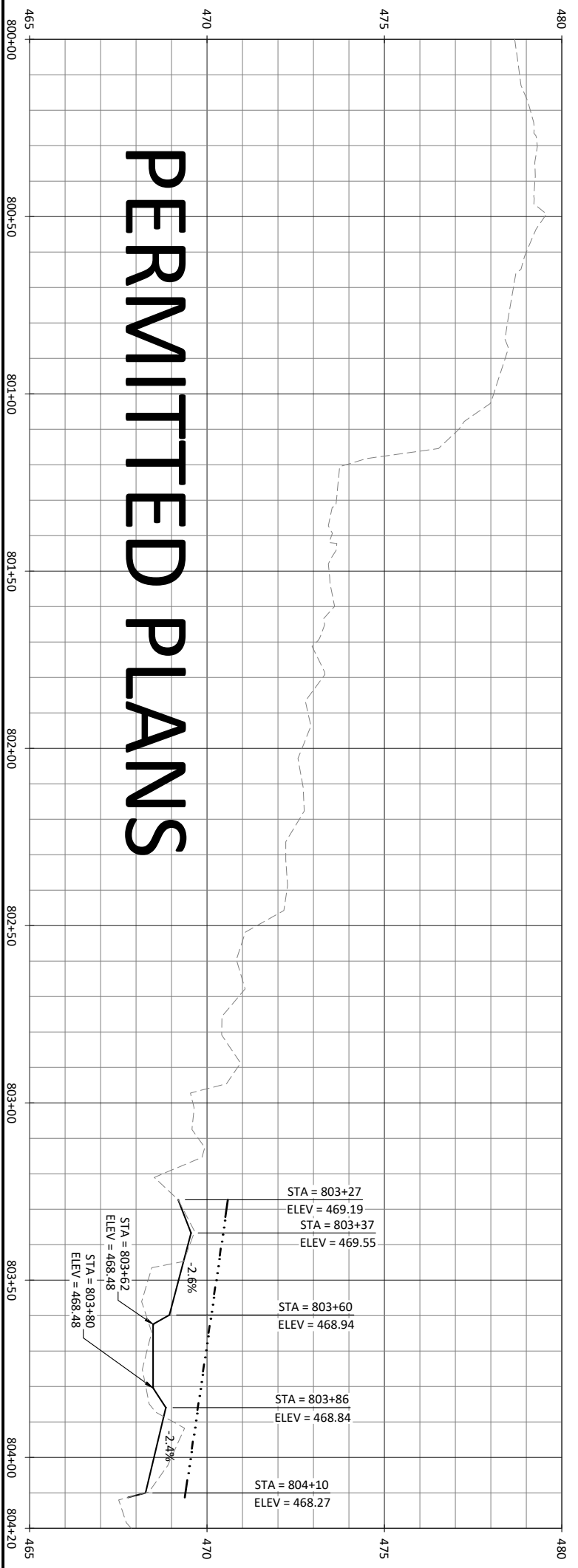
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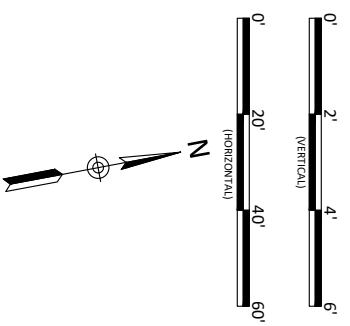
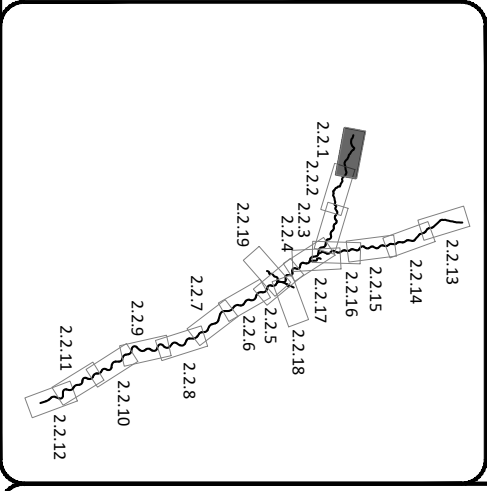
2.1.32



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	83	0.73	61 CY



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MIC
 Checked By: DHJ

Revisions:

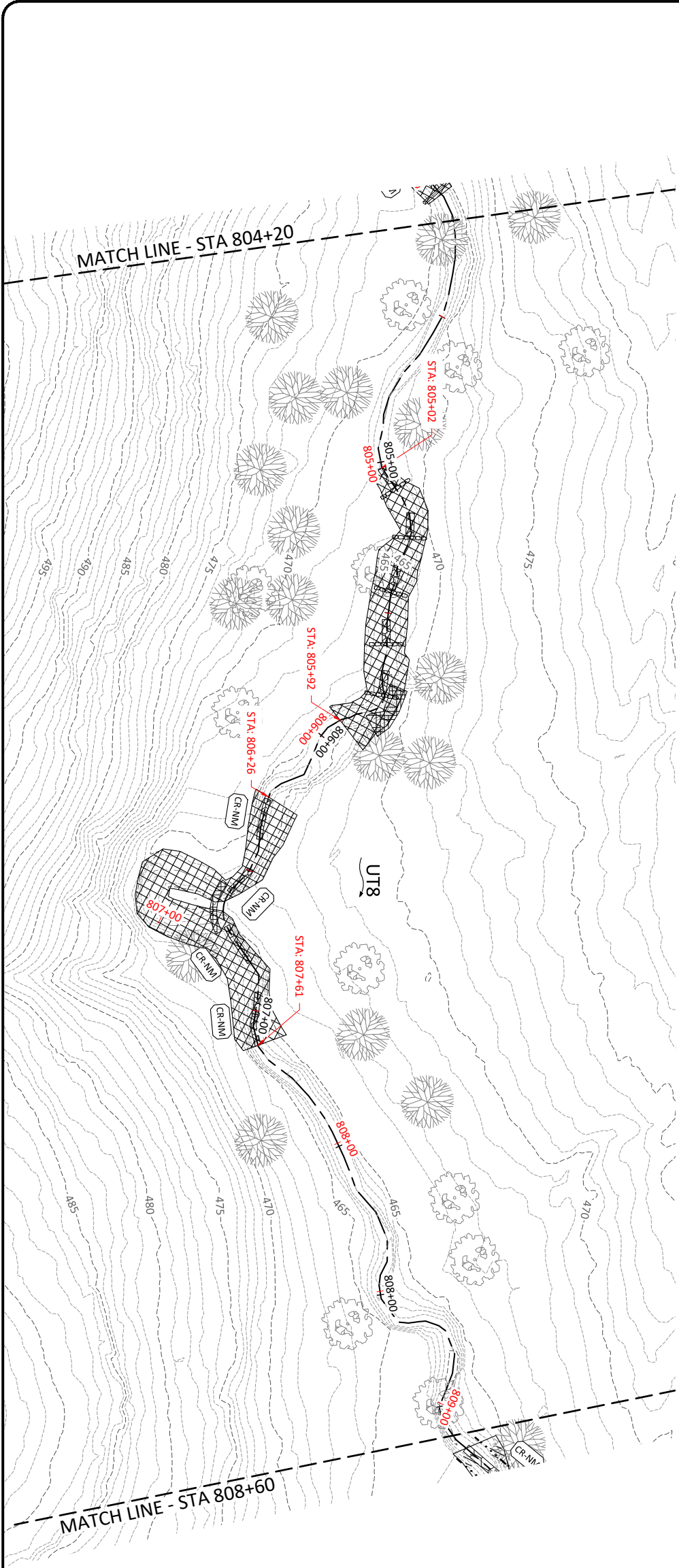
Carolina Crossroads Mitigation Site - PH Timber Tract Newberry County, South Carolina

UT8 Reach 1
 PCN

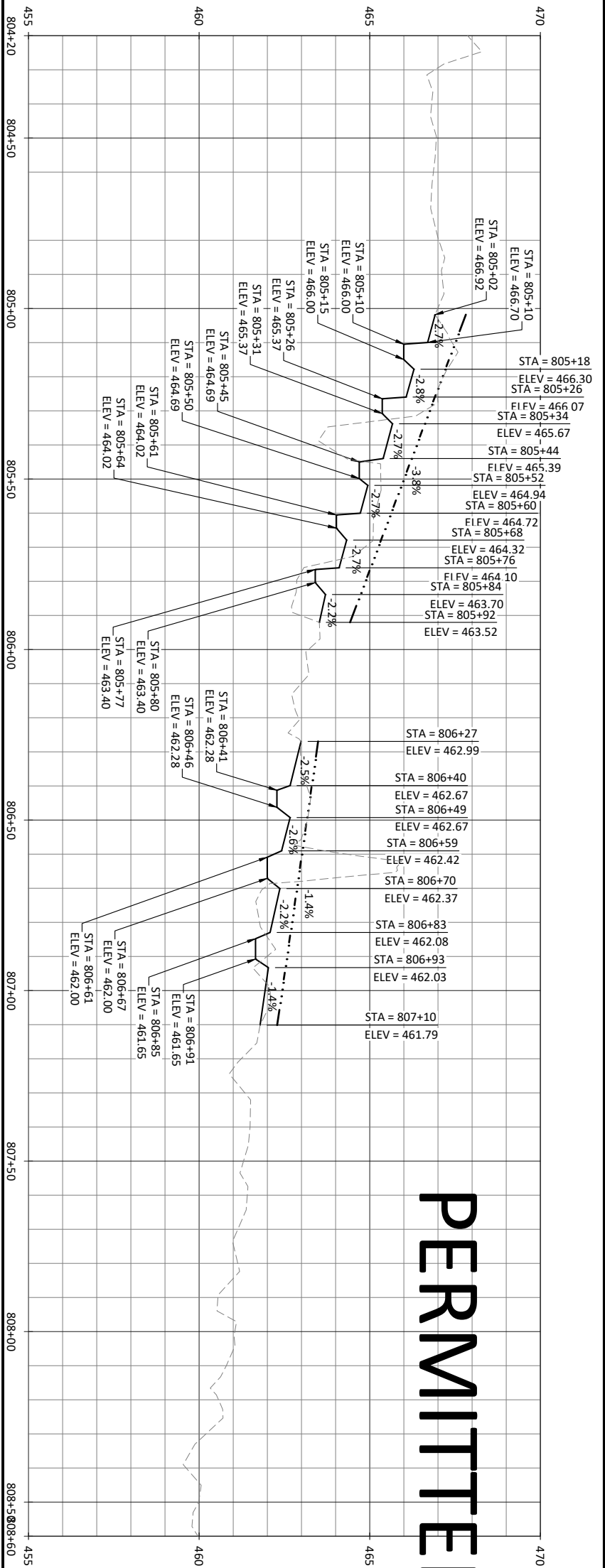
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 497 Bramson Ct, Suite 104
 Mount Pleasant, SC 29464
 Tel: 843.277.6221
 Fax: 843.212.2101

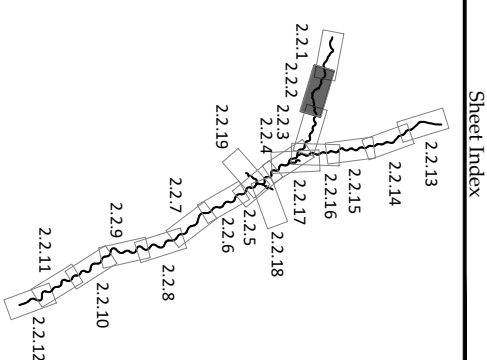
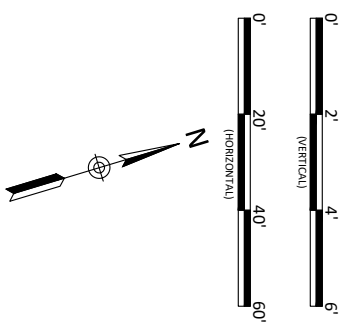
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	225	0.73	164 CV



PERMITTED PLANS



Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT8 Reach 1
PCN

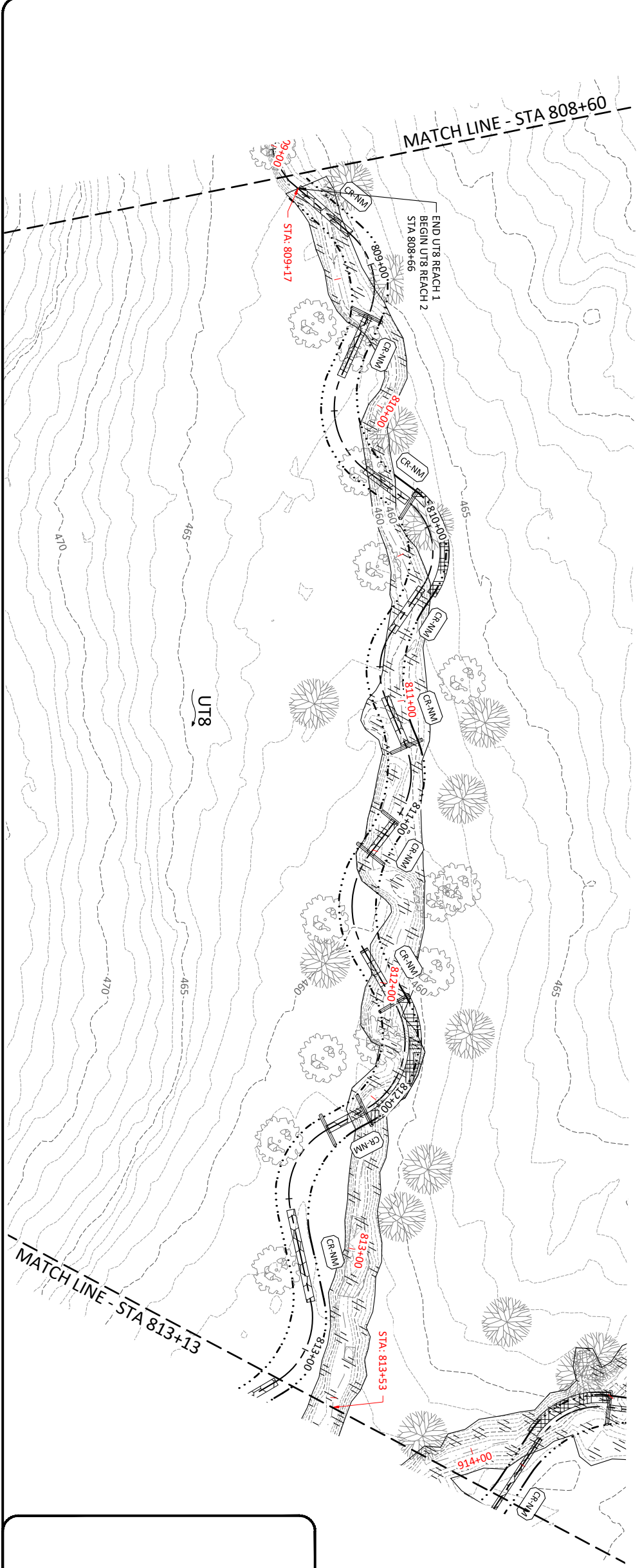
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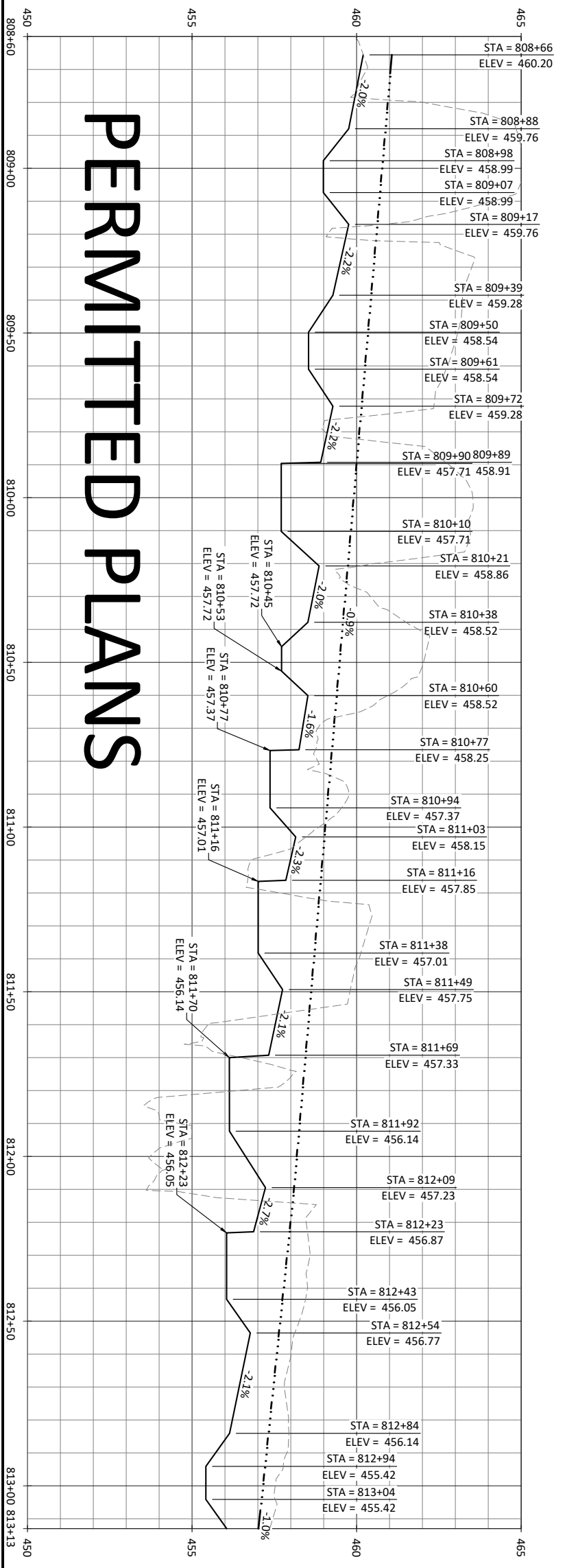
Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MIC
Checked By: DHJ

Revisions:

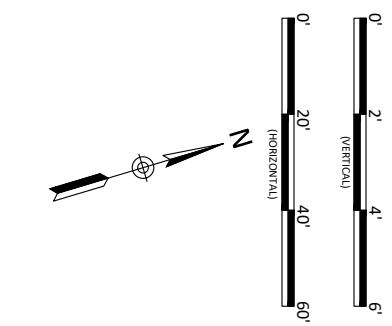
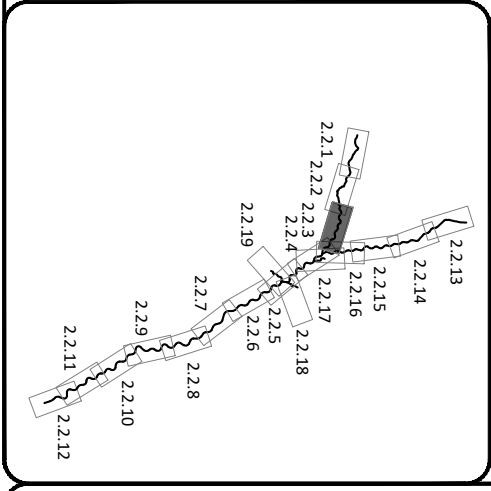
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Offline Channel Construction	12	Soil Fill	436	0.95	414 CV



PERMITTED PLANS

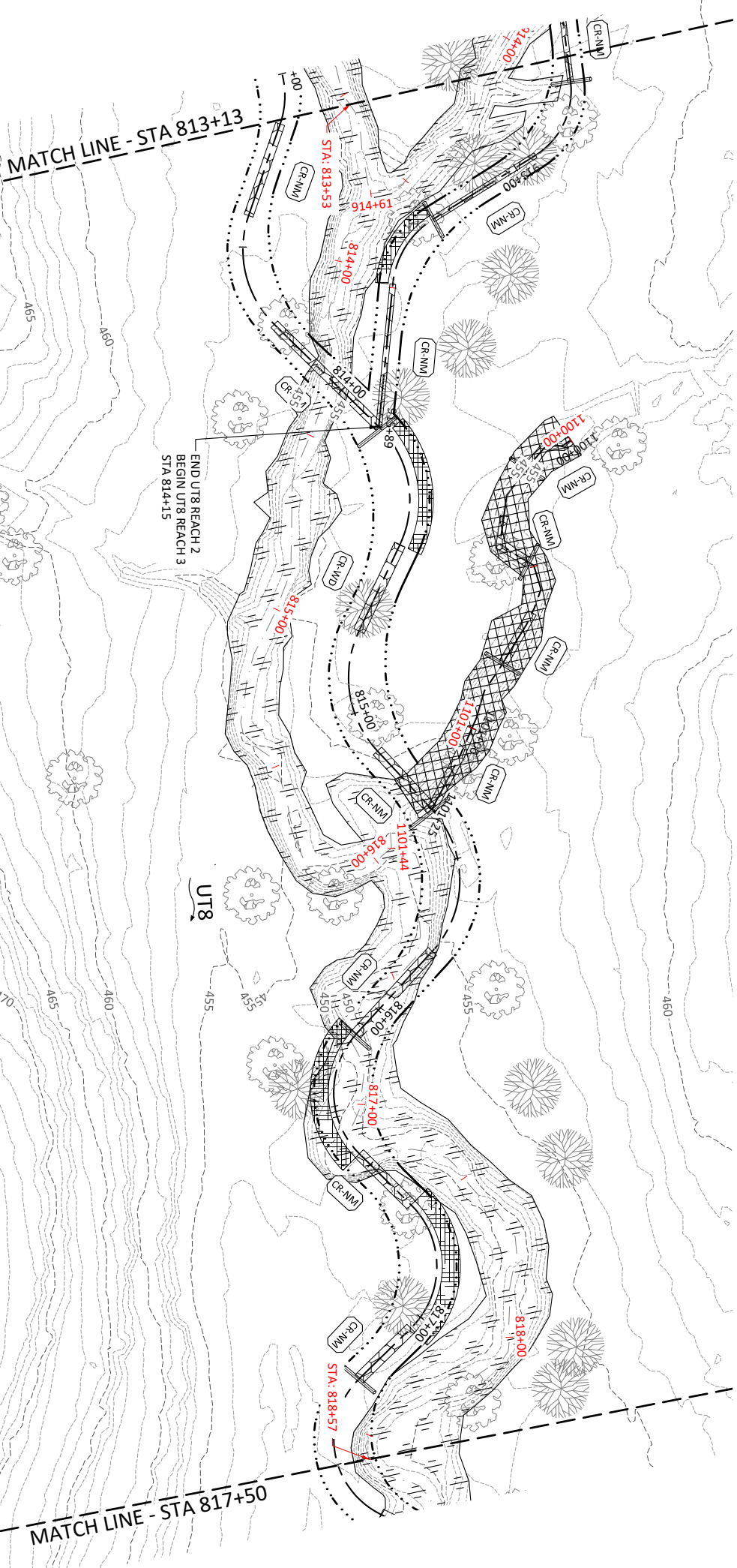


Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina
 UT8 Reach 1 & 2
 PCN

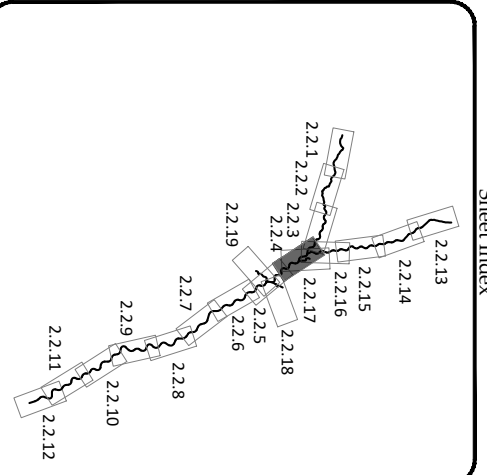
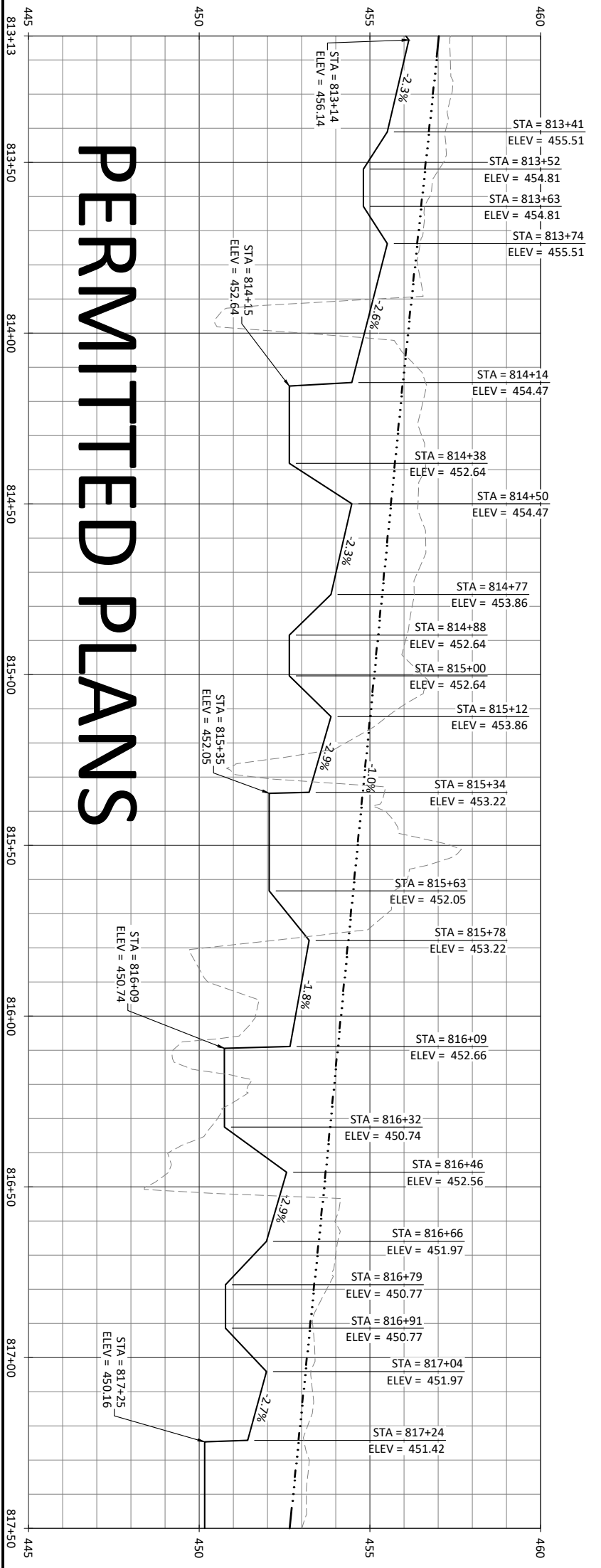
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Offline Channel Construction	12	Soil Fill	504	0.95	479 CV

PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MIC
 Checked By: DHJ

2.2.4

Revisions:

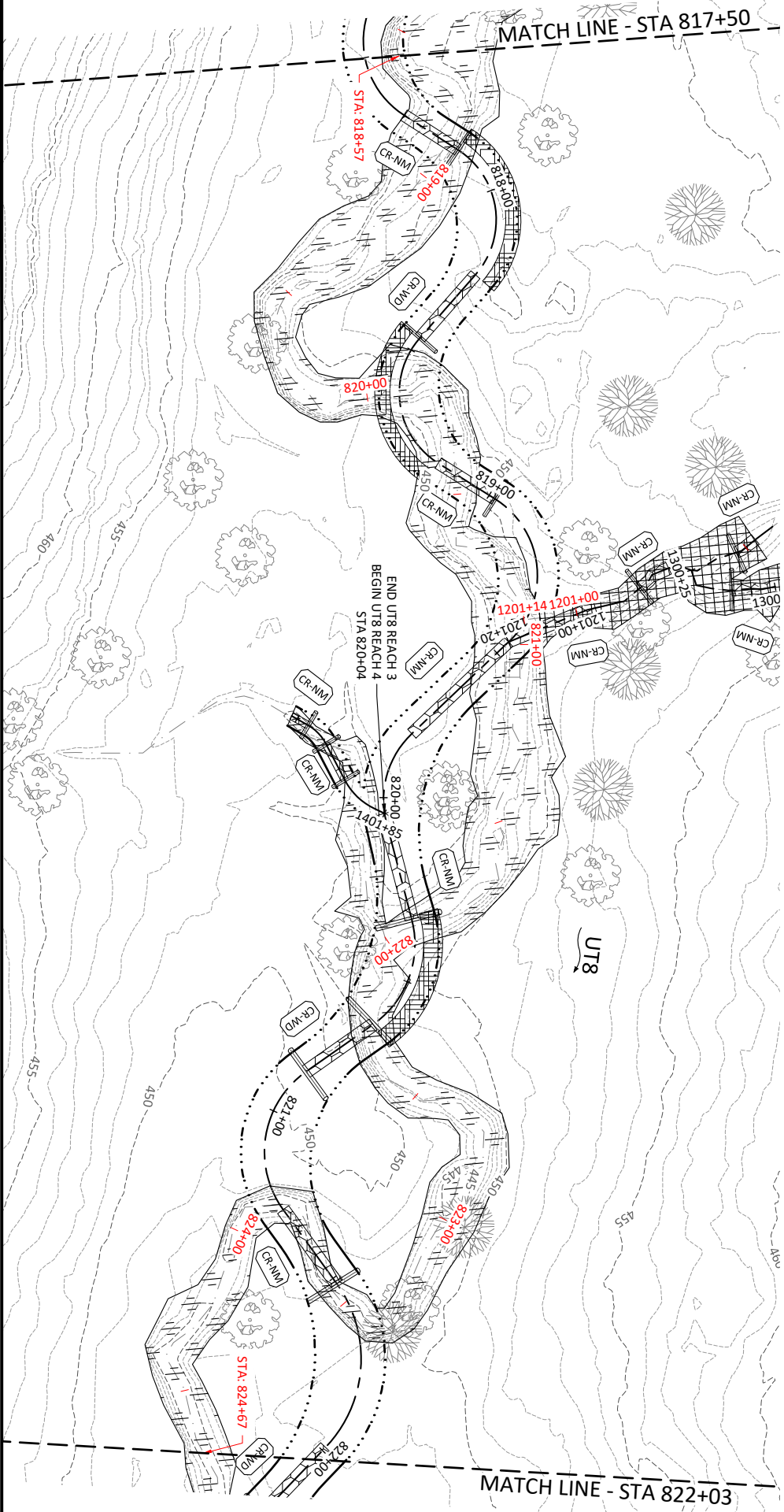
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT8 Reach 2 & 3
 PCN

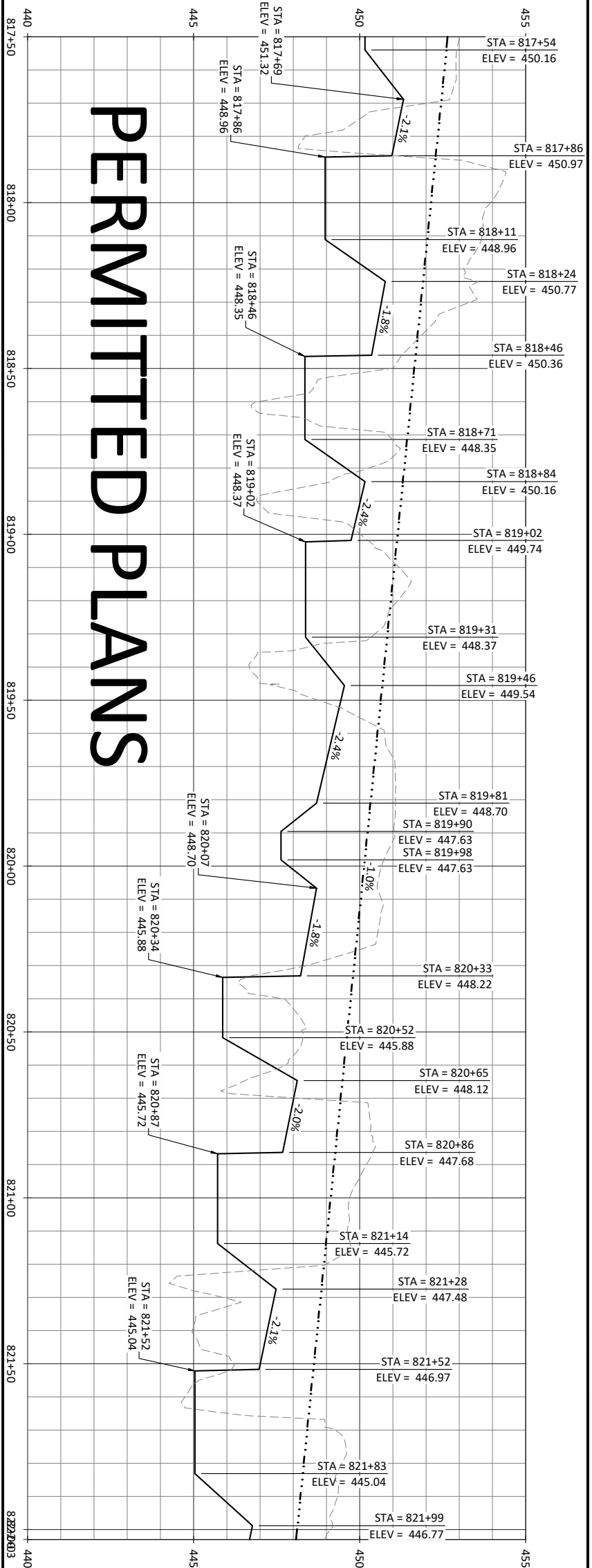
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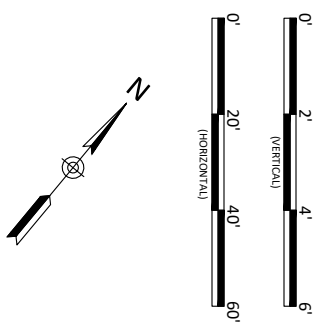
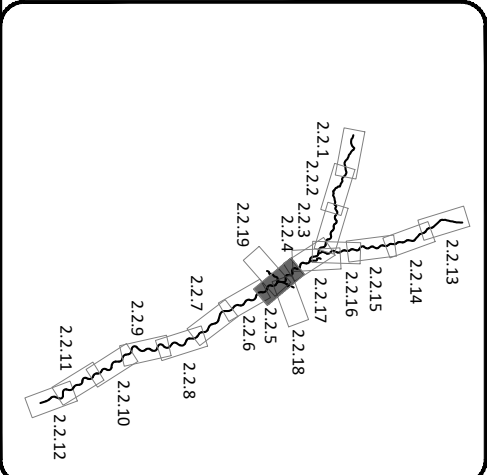
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	610	0.95	580 CV



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MIC
 Checked By: DHJ

Revisions:

Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

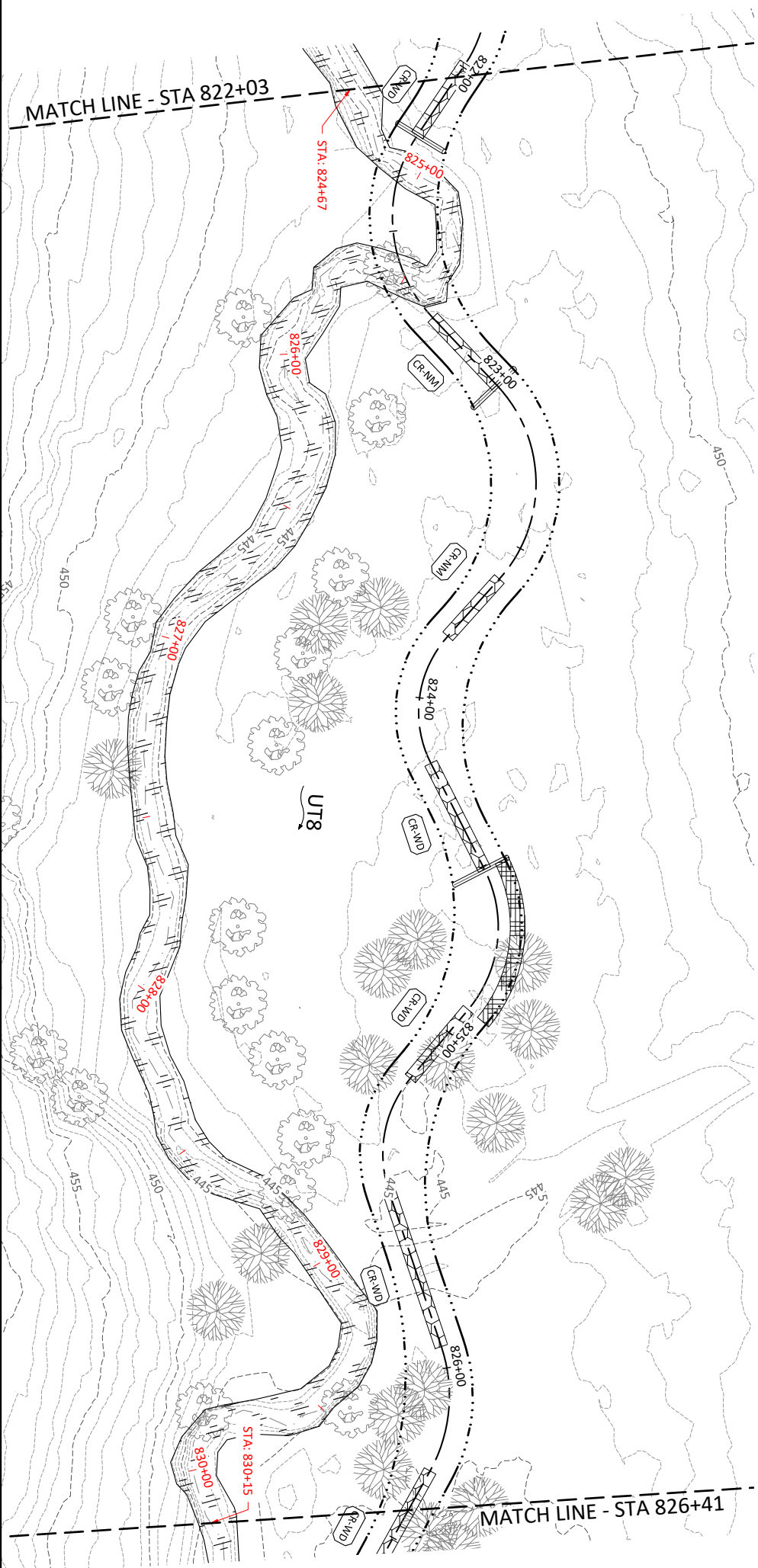
UT8 Reach 3 & 4
 PCN

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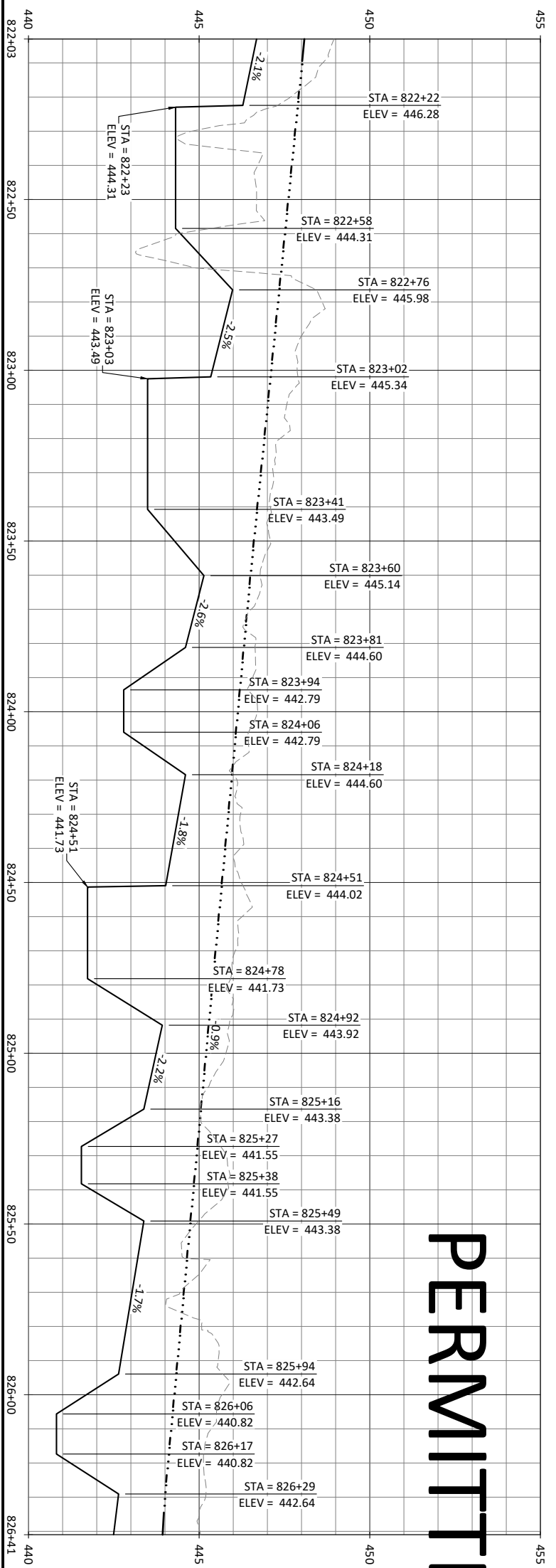
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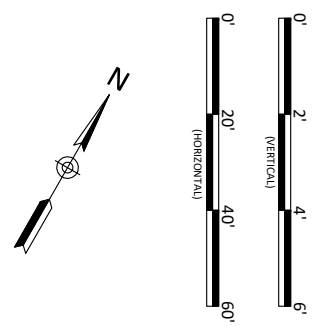
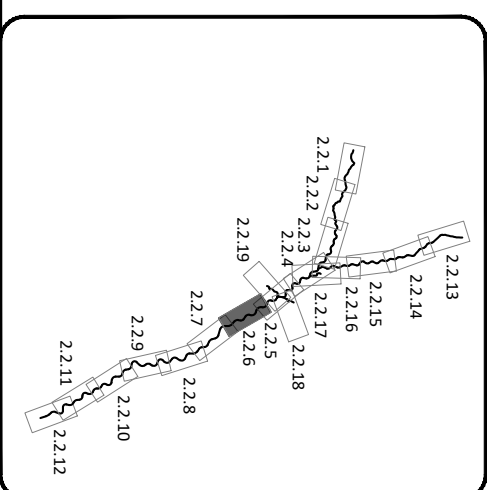
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Offline Channel Construction	12	Soil Fill	548	0.95	521 CV



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MIC
 Checked By: DHJ

Revisions:

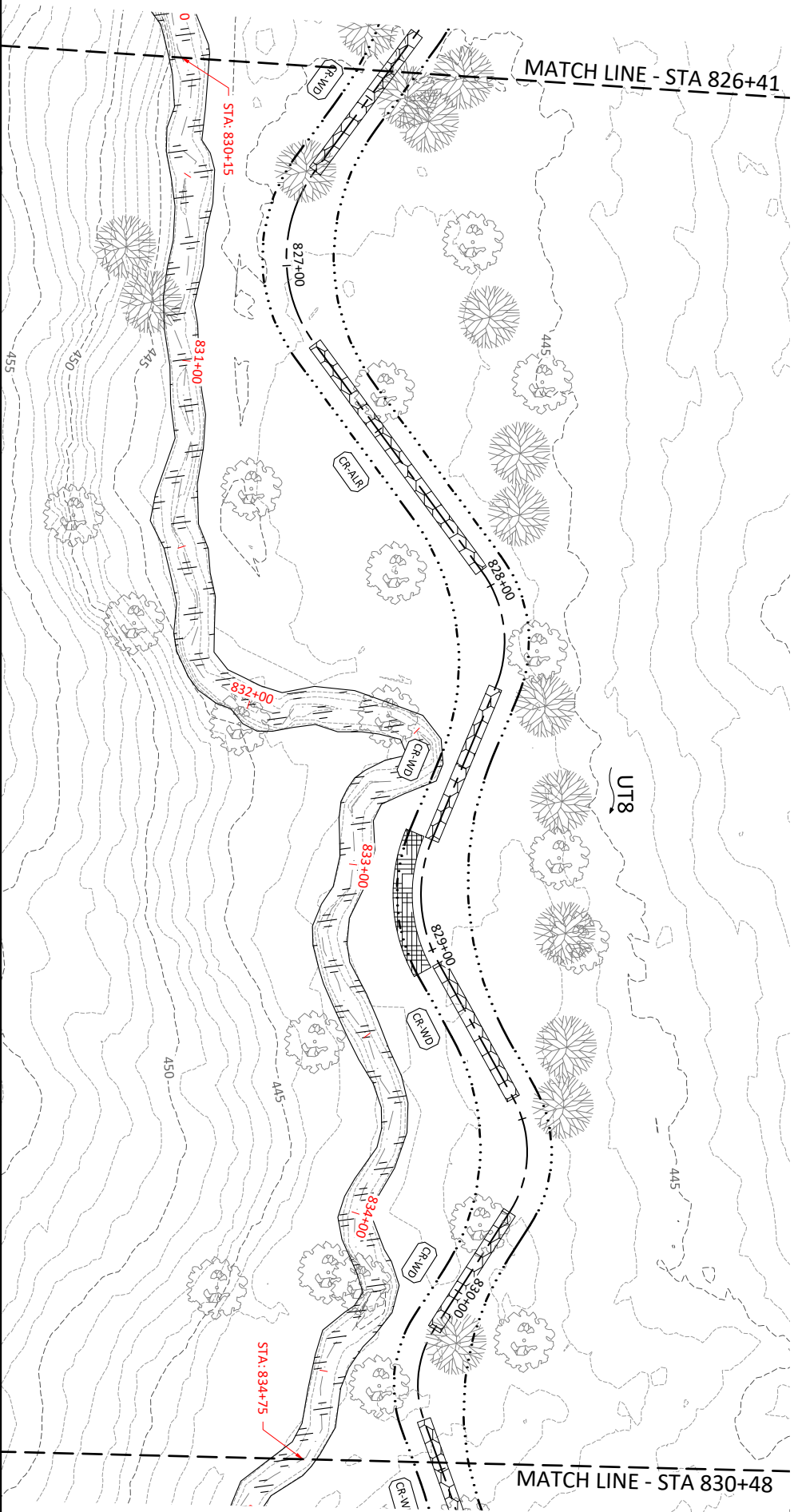
Carolina Crossroads Mitigation Site - PH Timber Tract Newberry County, South Carolina

UT8 Reach 4
 PCN

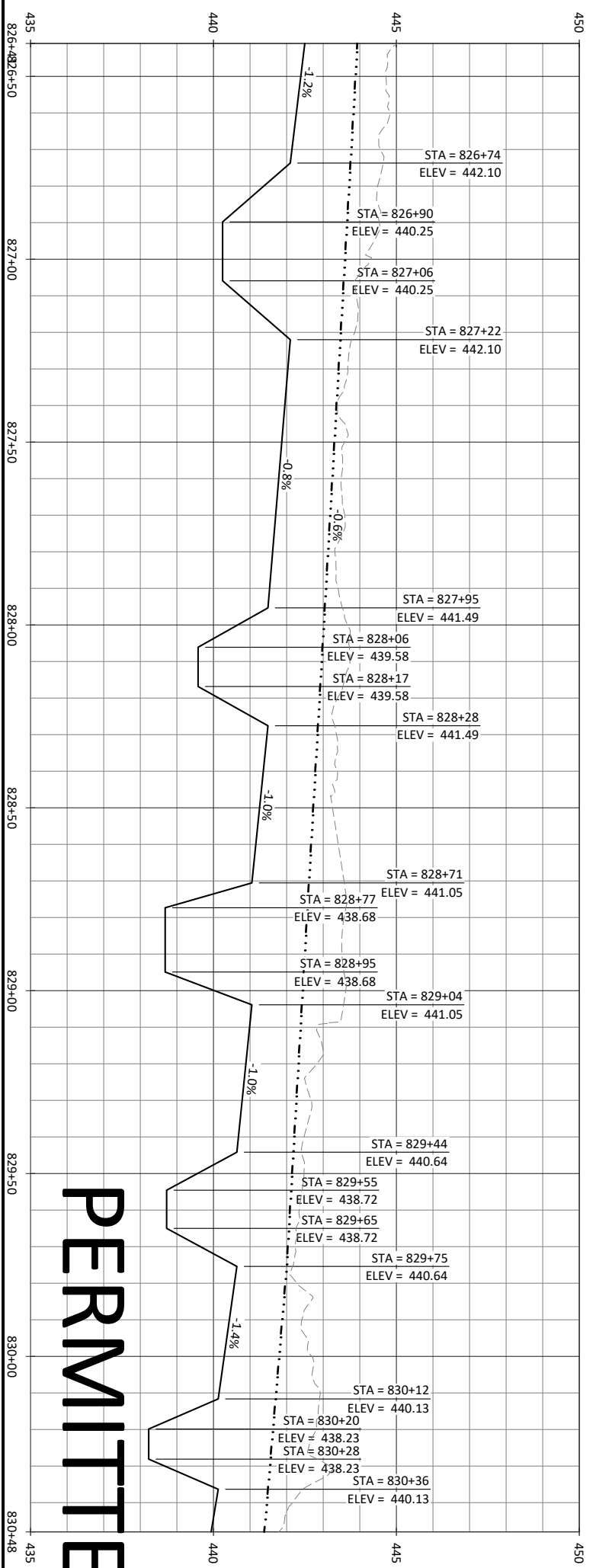
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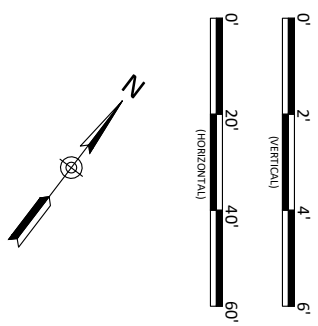
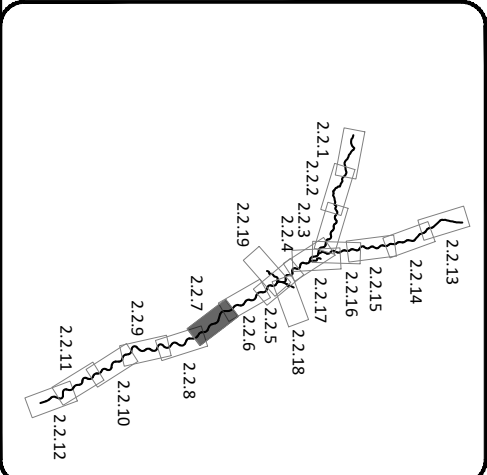
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	460	0.95	437 CV



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MIC
 Checked By: DHJ

Revisions:

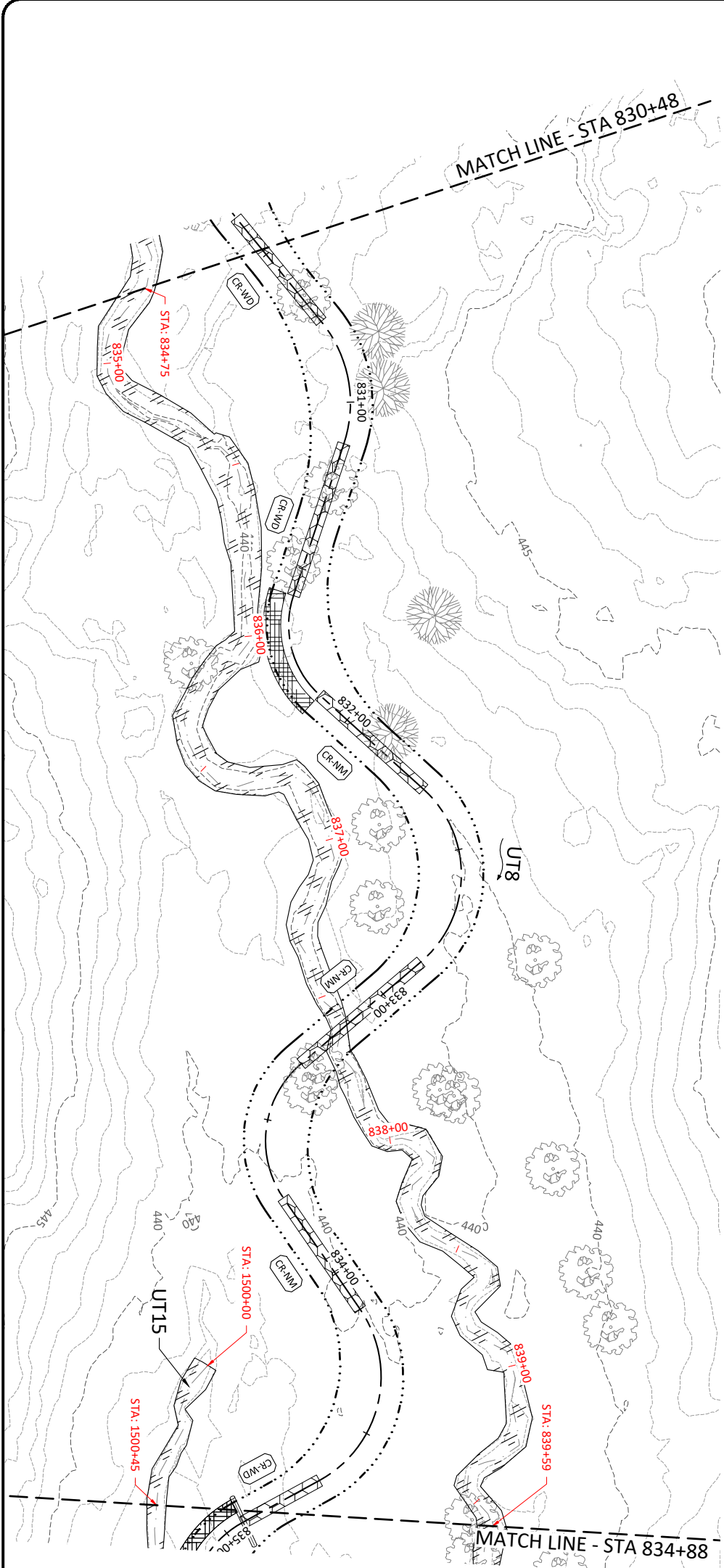
Carolina Crossroads Mitigation Site - PH Timber Tract Newberry County, South Carolina

UT8 Reach 4
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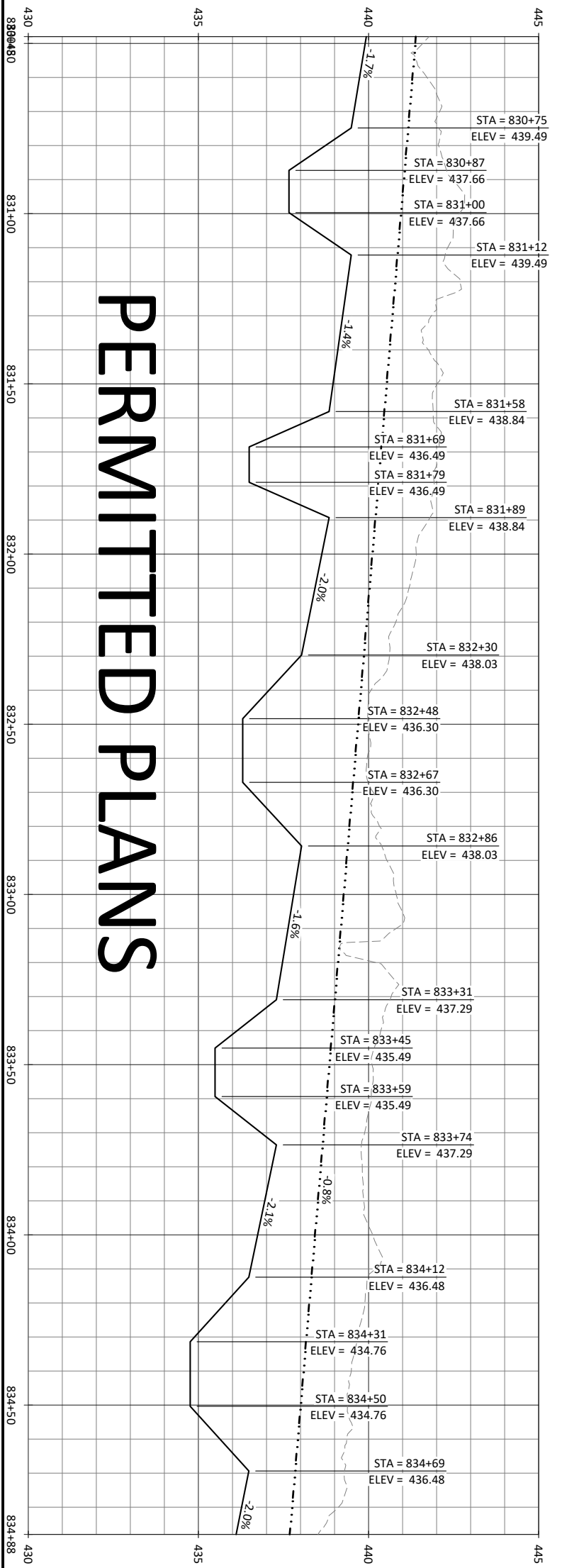
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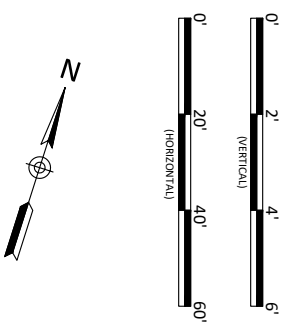
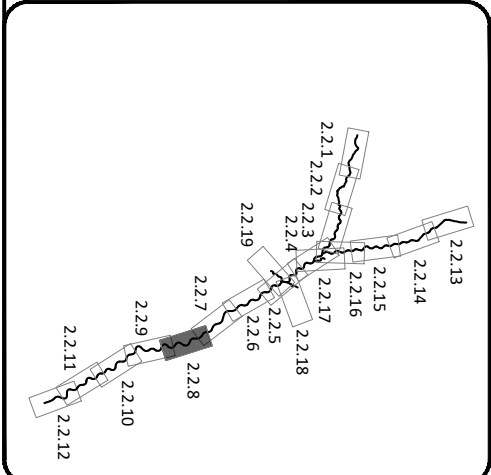
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Offline Channel Construction	12	Soil Fill	529	0.95	503 CV



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MIC
 Checked By: DHJ

Revisions:

2.2.8

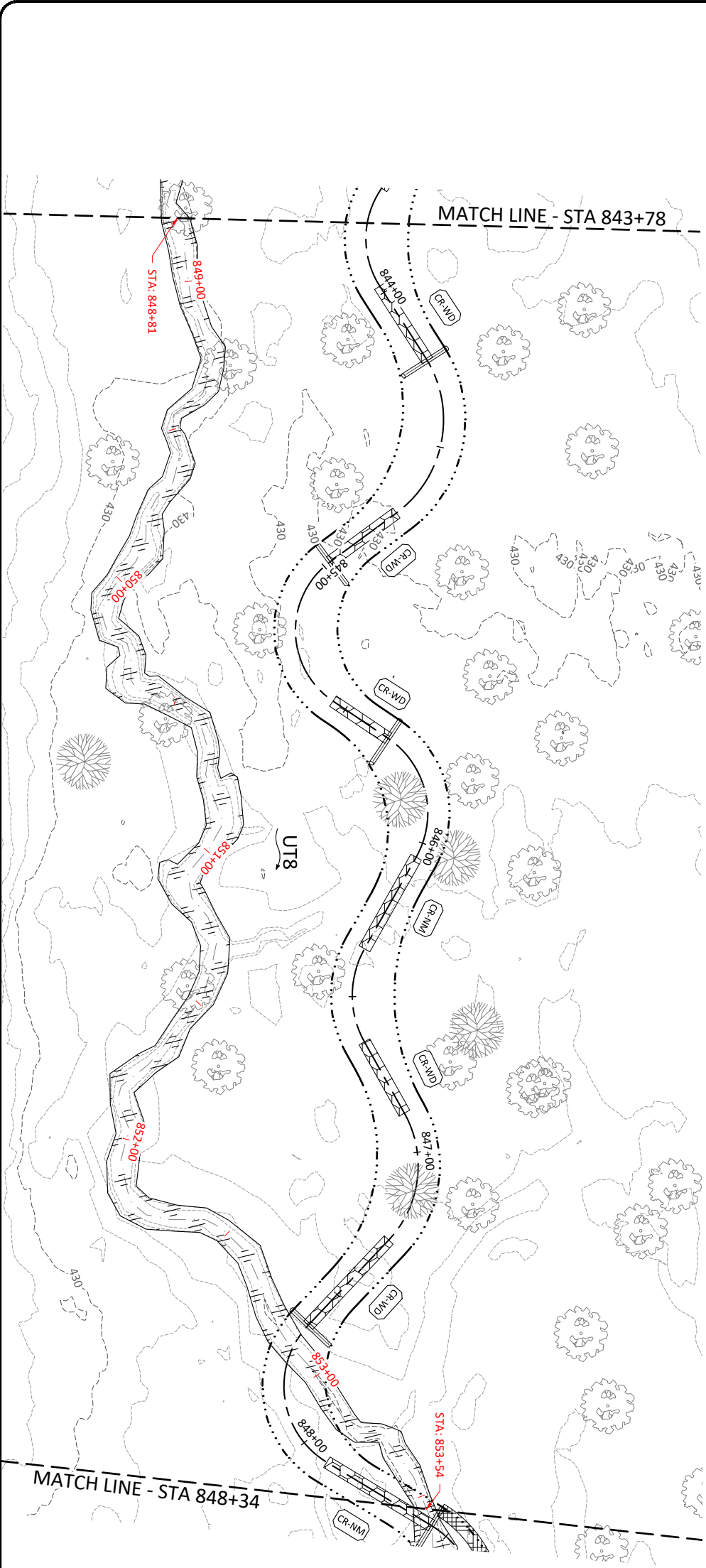
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT8 Reach 4
 PCN

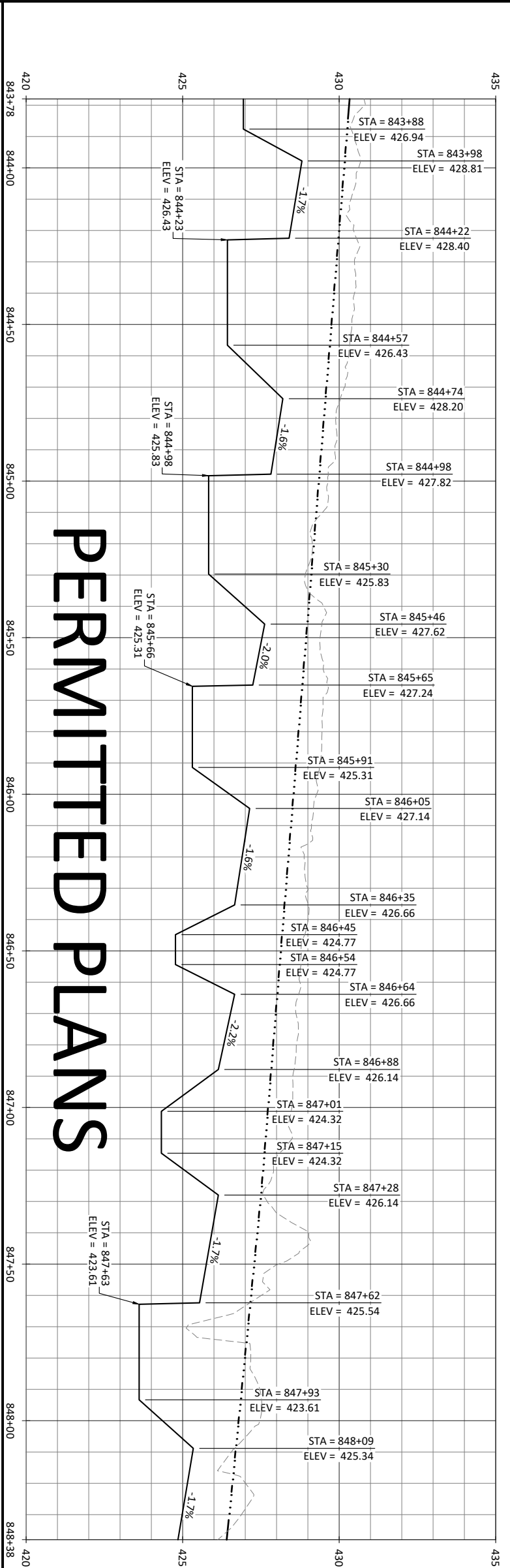
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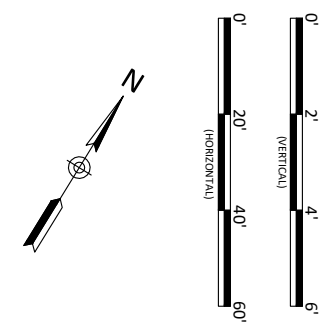
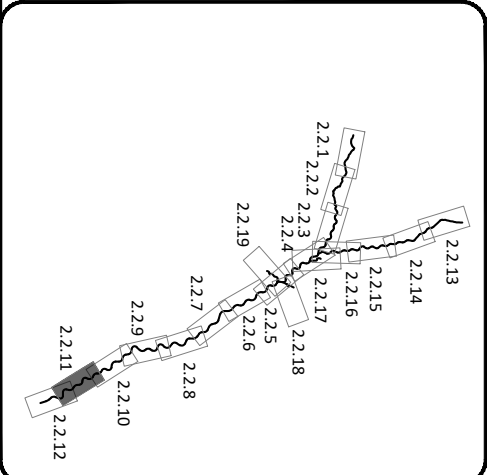
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	473	0.95	449 CV



PERMITTED PLANS



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MIC
 Checked By: DHJ

Revisions:

2.2.11

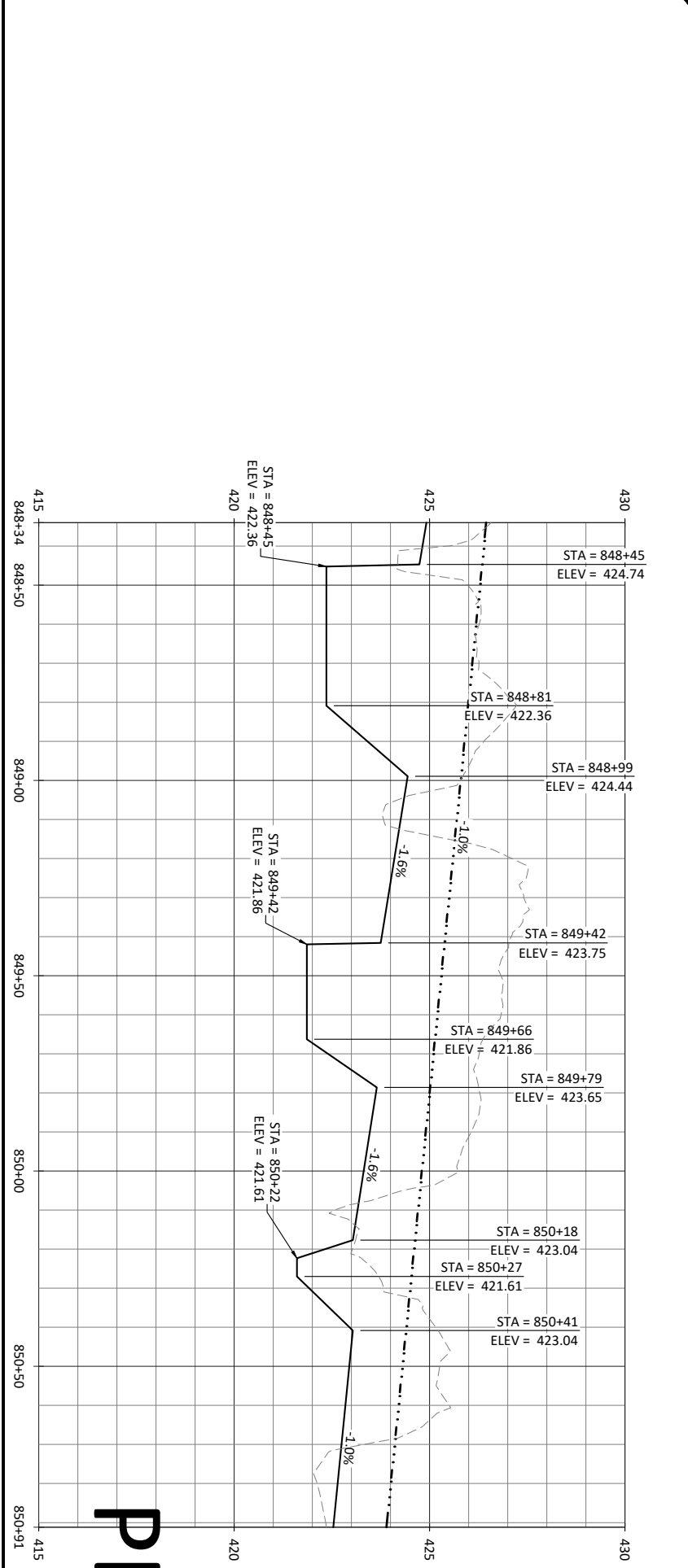
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT8 Reach 4
 PCN

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 DO NOT
 USE FOR
 CONSTRUCTION

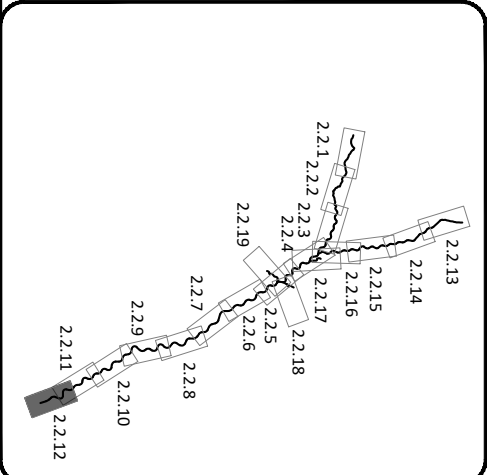
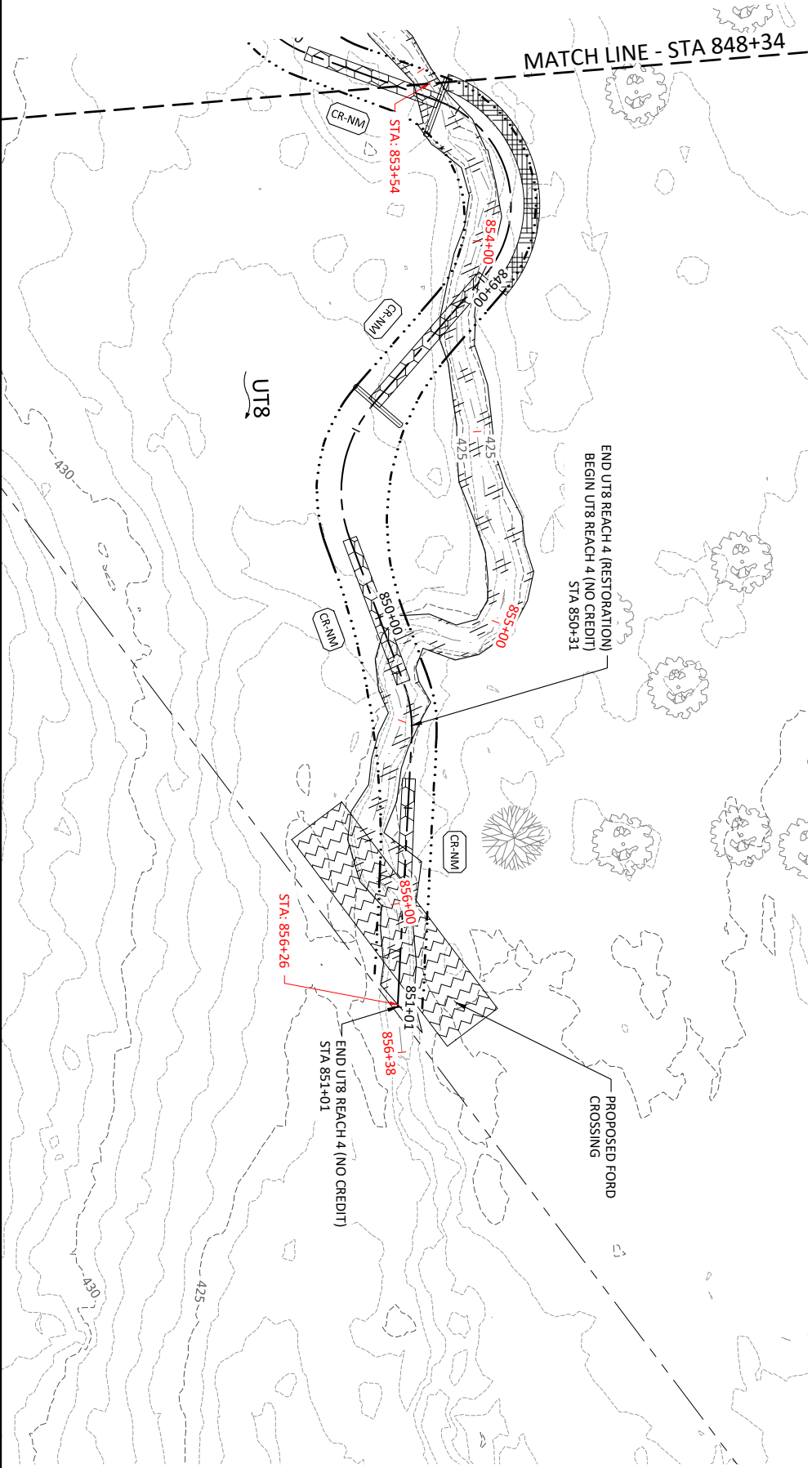
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PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	272	0.95	258 CV



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

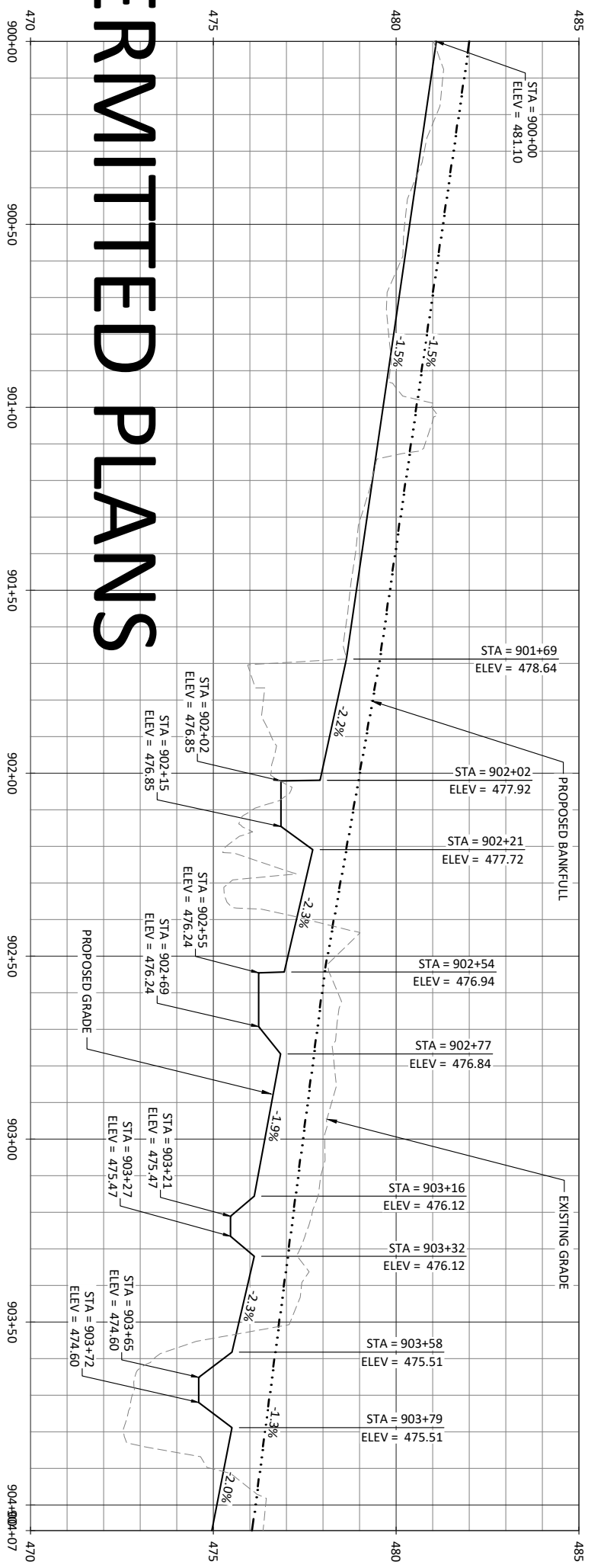
UT8 Reach 4
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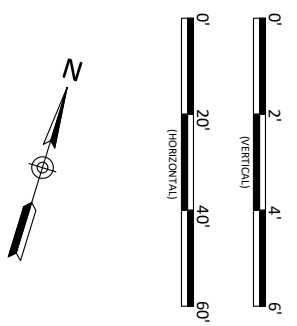
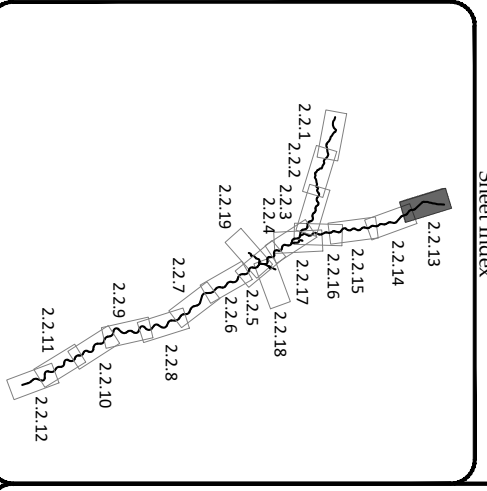
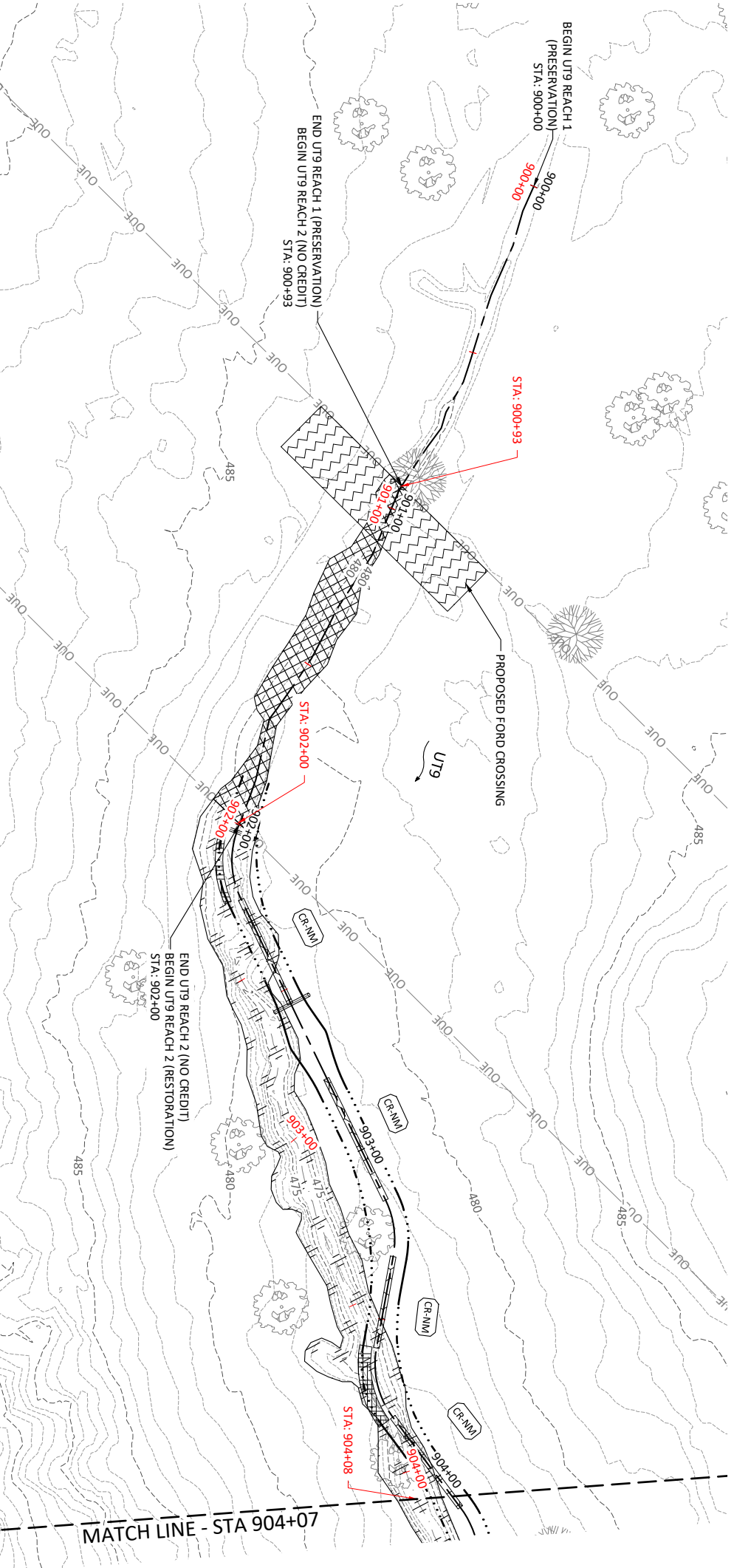
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2.2.12

PERMITTED PLANS



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Stone or Rock Fill	107	0.73	78 CY
4	Off-line Channel Construction	12	Soil Fill	208	0.95	198 CY



Carolina Crossroads Mitigation Site - PH Timber Tract
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UT9 Reach 1 & 2
PCN

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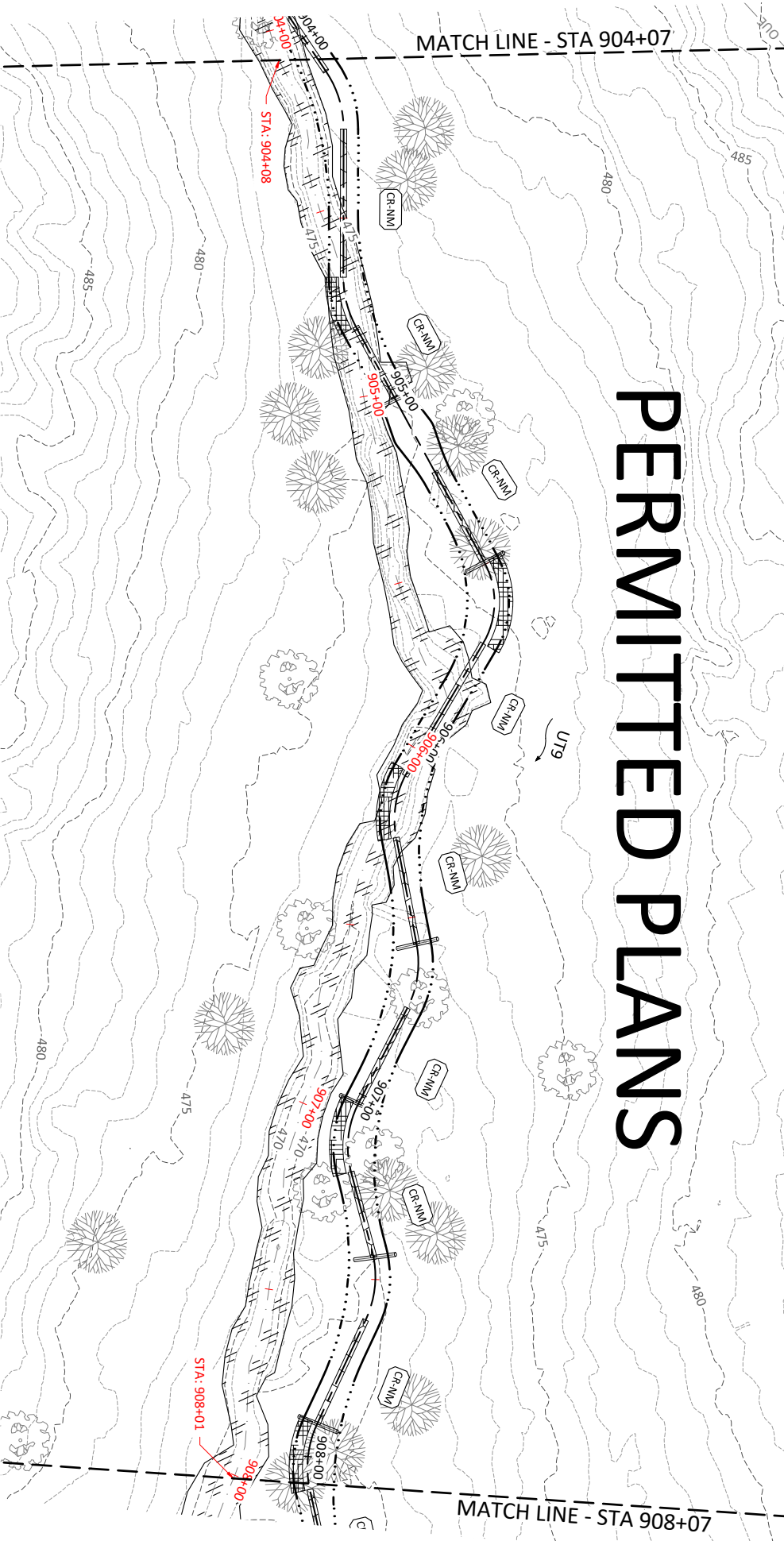
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Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MJC
Checked By: DHJ

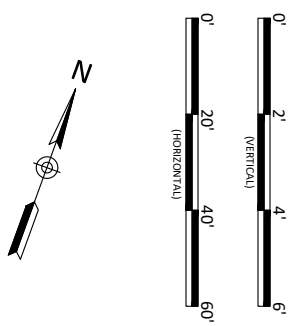
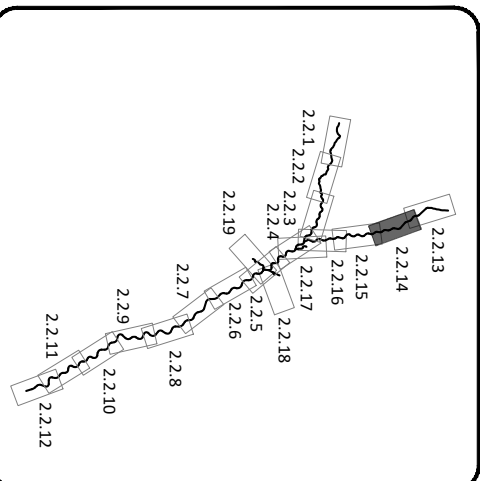
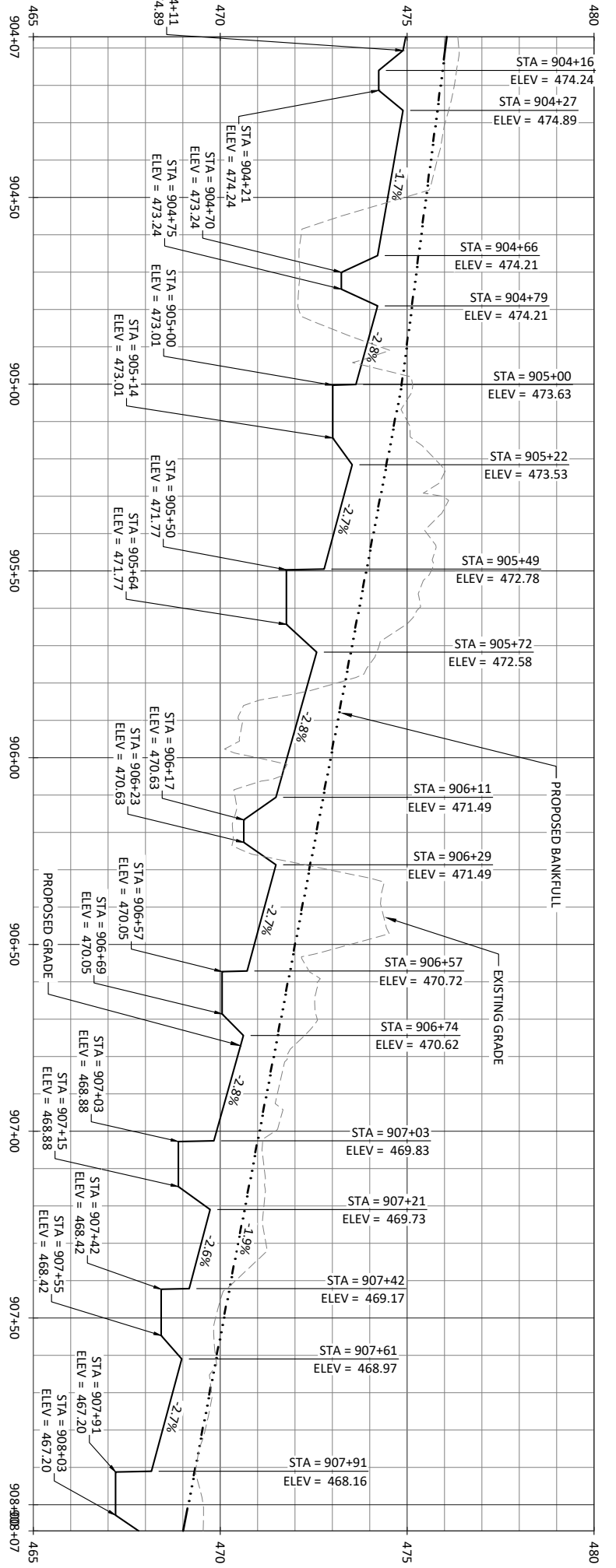
2.2.13

Revisions:

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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	393	0.95	373 CV



Date:	05.20.2020	Revisions:	
Job Number:	005-05200		
Project Engineer:	GLS		
Drawn By:	MJC		
Checked By:	DHJ		

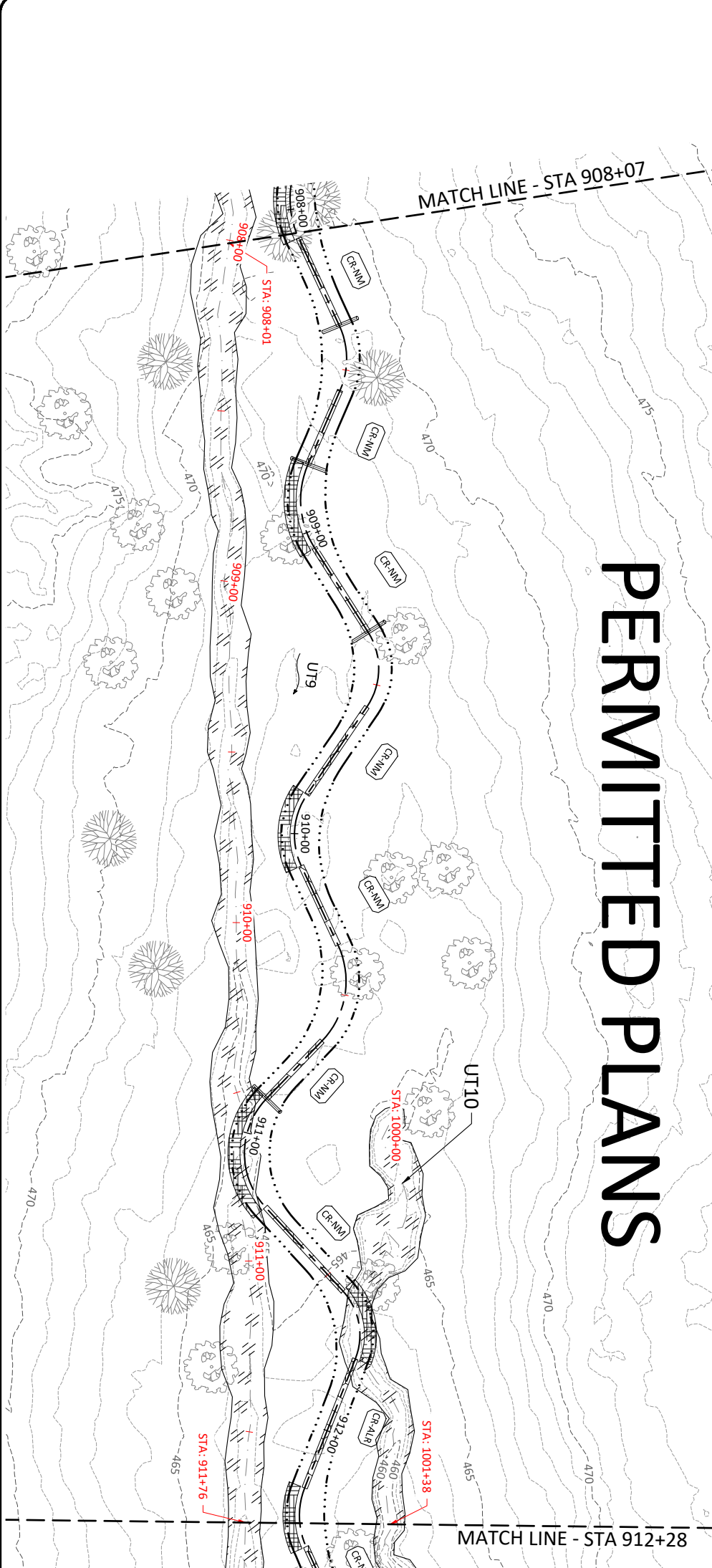
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT9 Reach 2
PCN

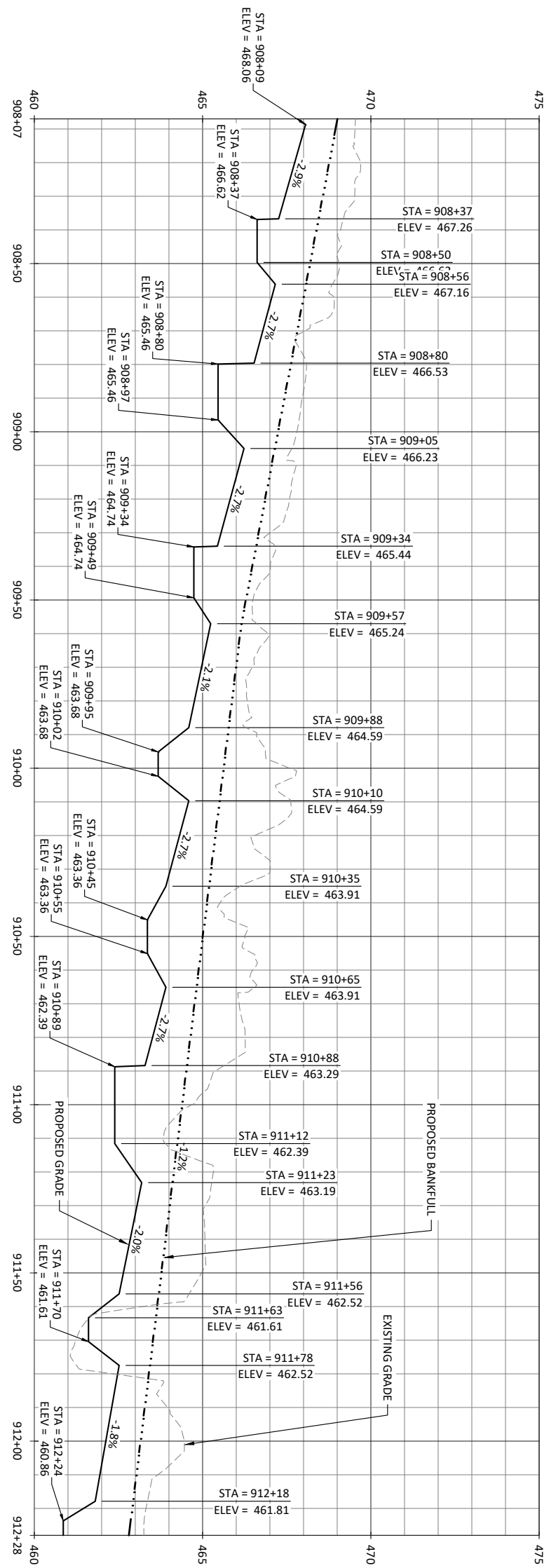
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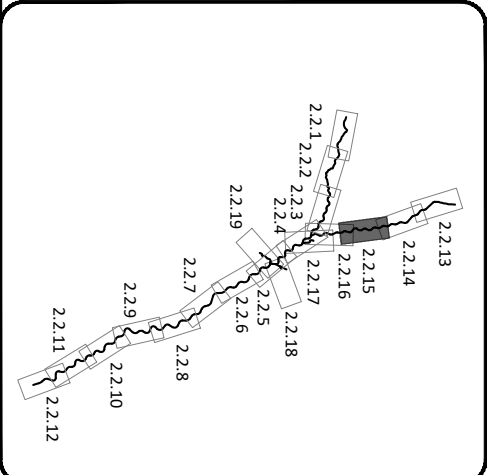
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Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	513	0.95	487 CV



PERMITTED PLANS



Date:	05.20.2020
Job Number:	005-05200
Project Engineer:	GLS
Drawn By:	MIC
Checked By:	DHJ

Revisions:

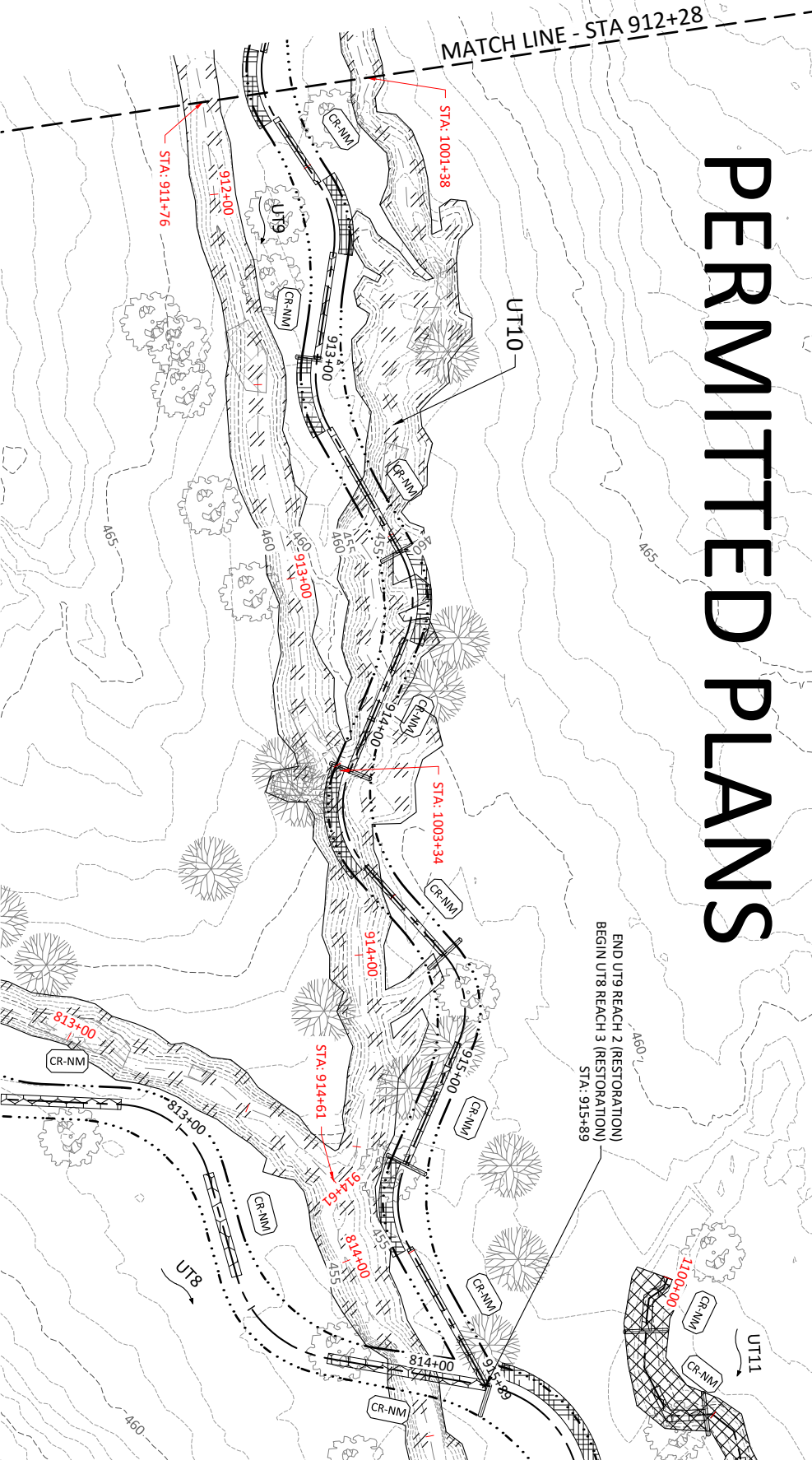
Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT9 Reach 2
PCN

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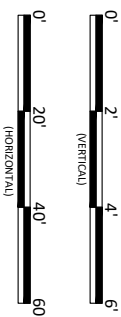
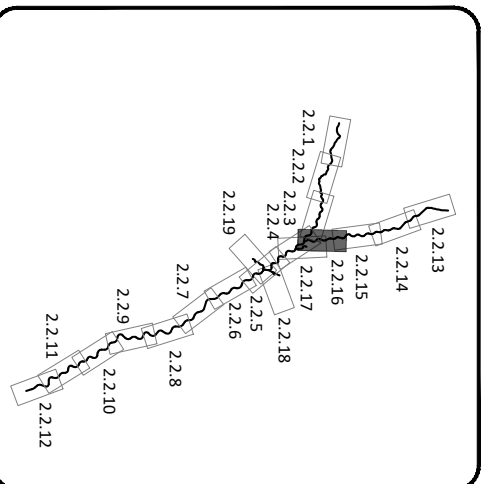
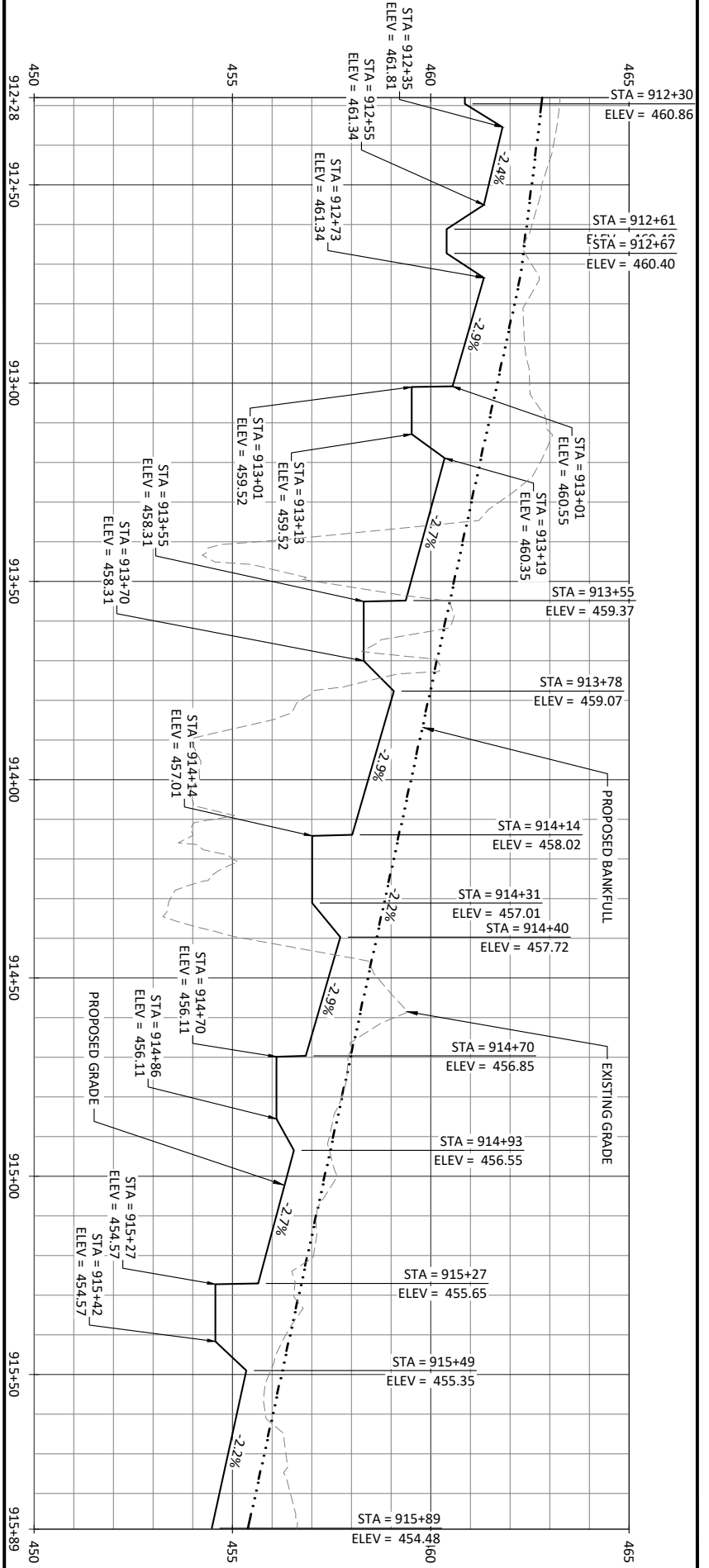
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2.2.15



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	481	0.95	457 CV



Date: 05.20.2020
 Job Number: 005-05200
 Project Engineer: GLS
 Drawn By: MIC
 Checked By: DHJ

Revisions:

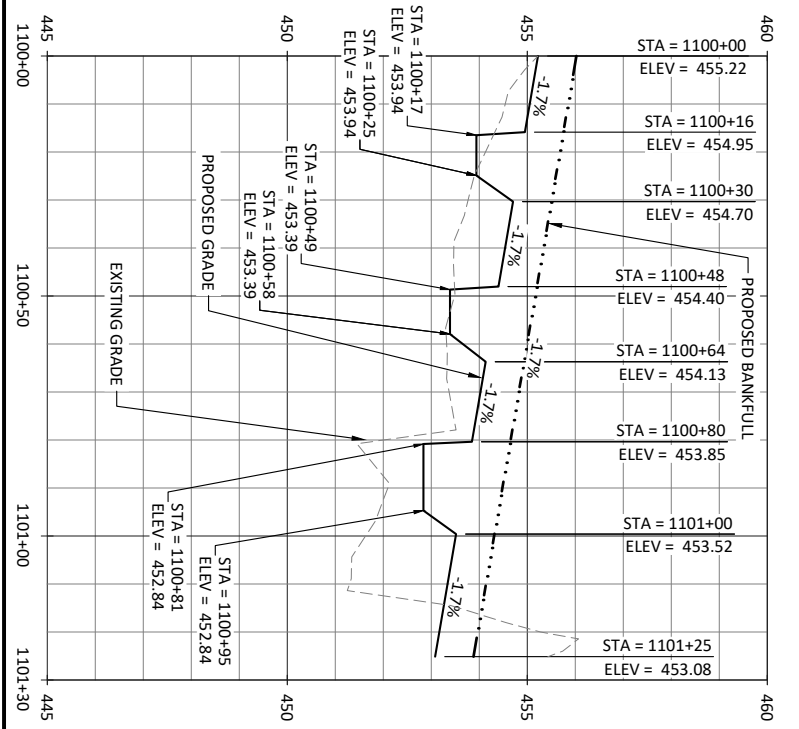
Carolina Crossroads Mitigation Site - PH Timber Tract
 Newberry County, South Carolina

UT9 Reach 2
 PCN

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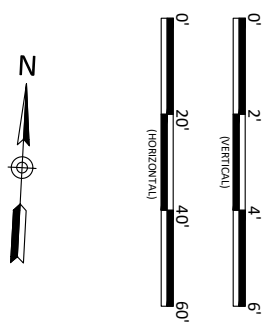
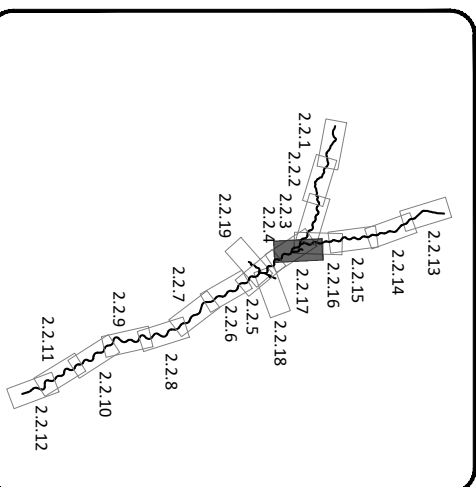
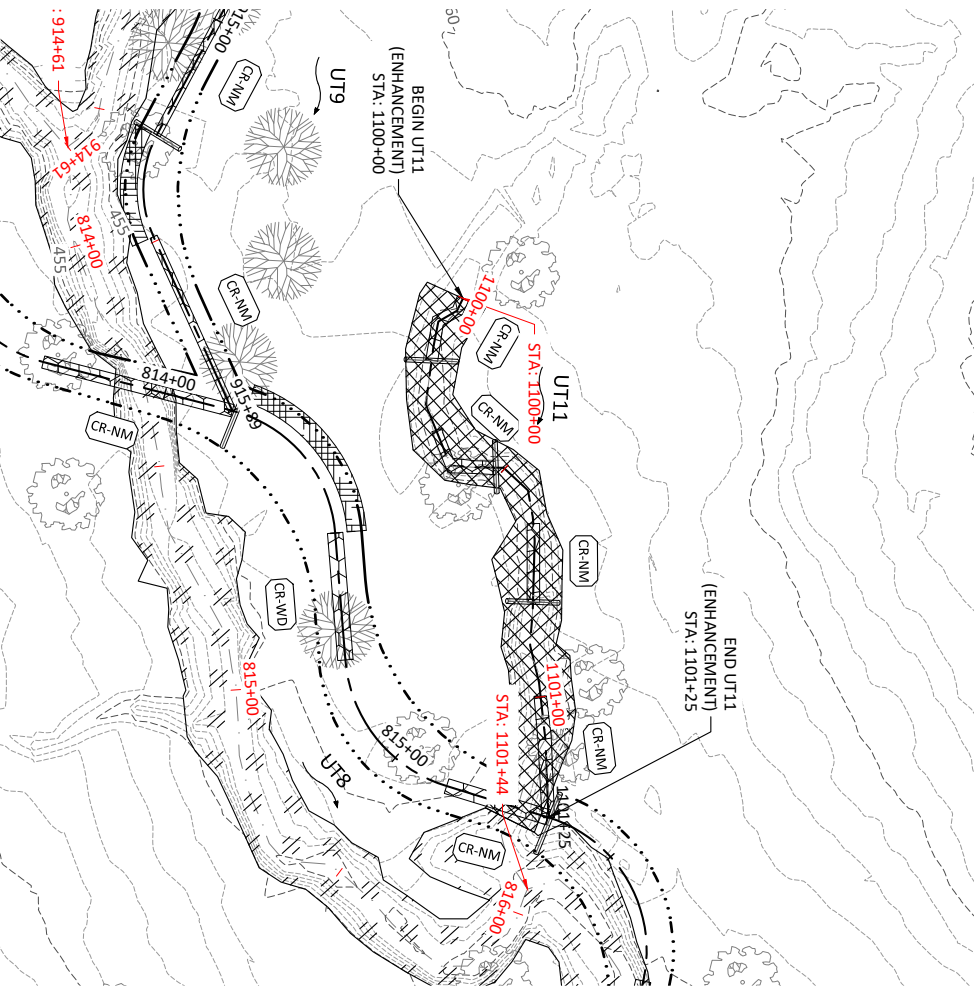
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2.2.16



PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	144	0.73	105 CV



Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT11
PCN

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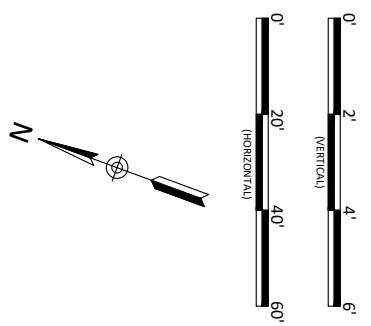
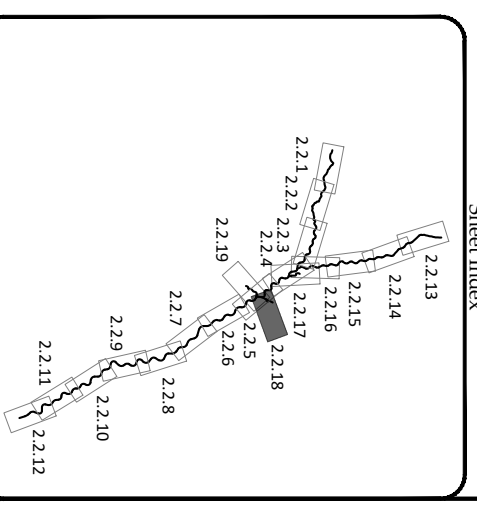
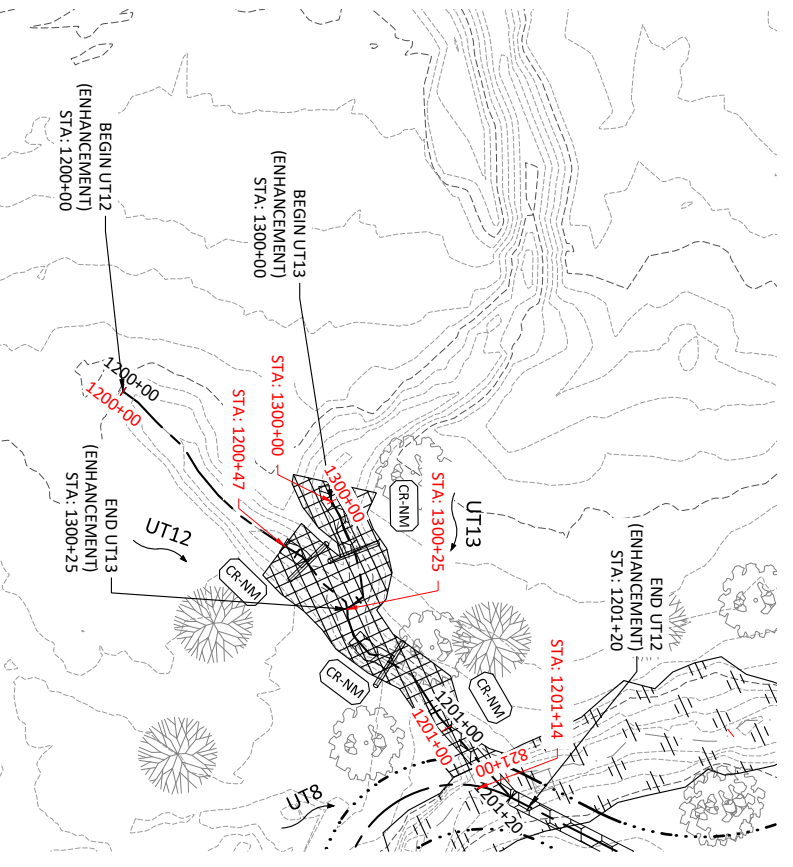
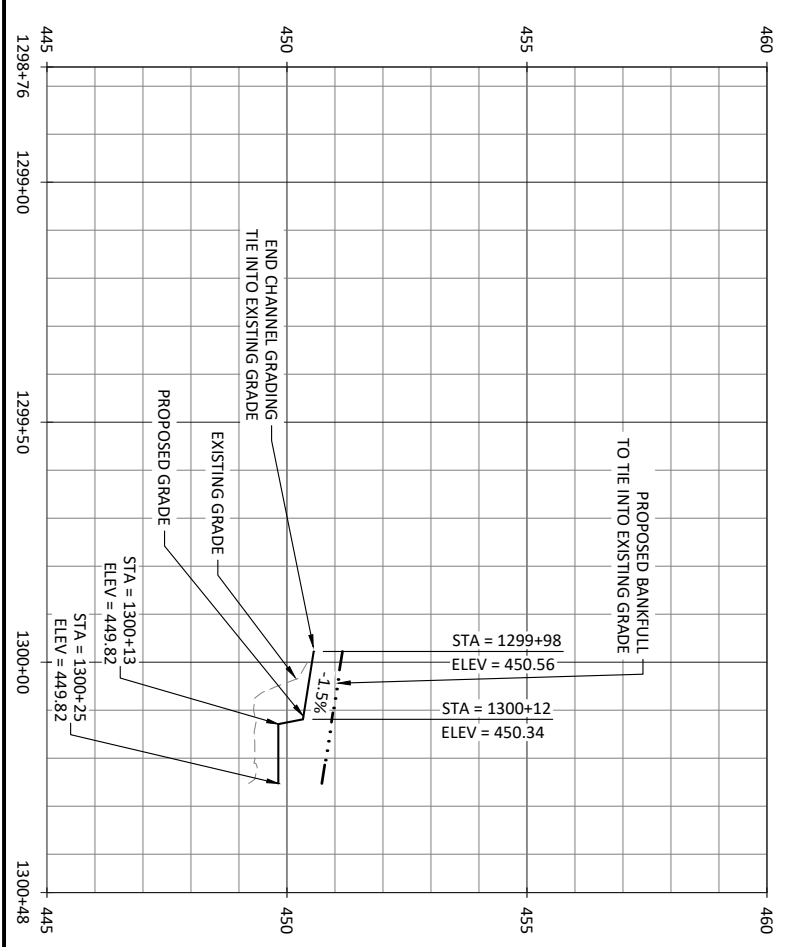
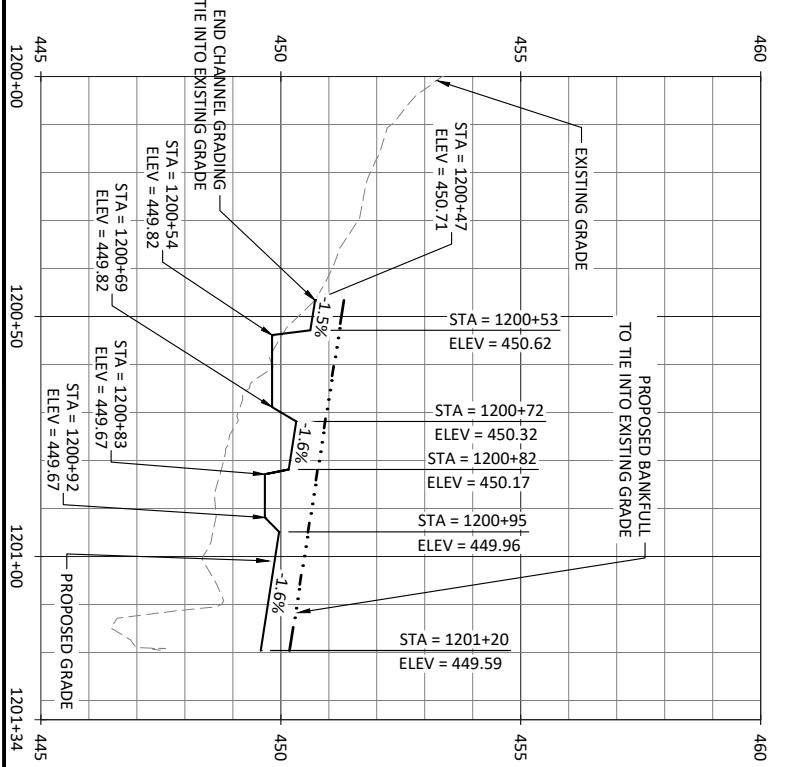
Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MIC
Checked By: DHJ

Revisions:

2.2.17

PERMITTED PLANS

Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
3	In-line Channel Construction	9	Gravel, Rock or Stone Fill	92	0.73	67 CY



Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT12 and UT13
PCN

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION

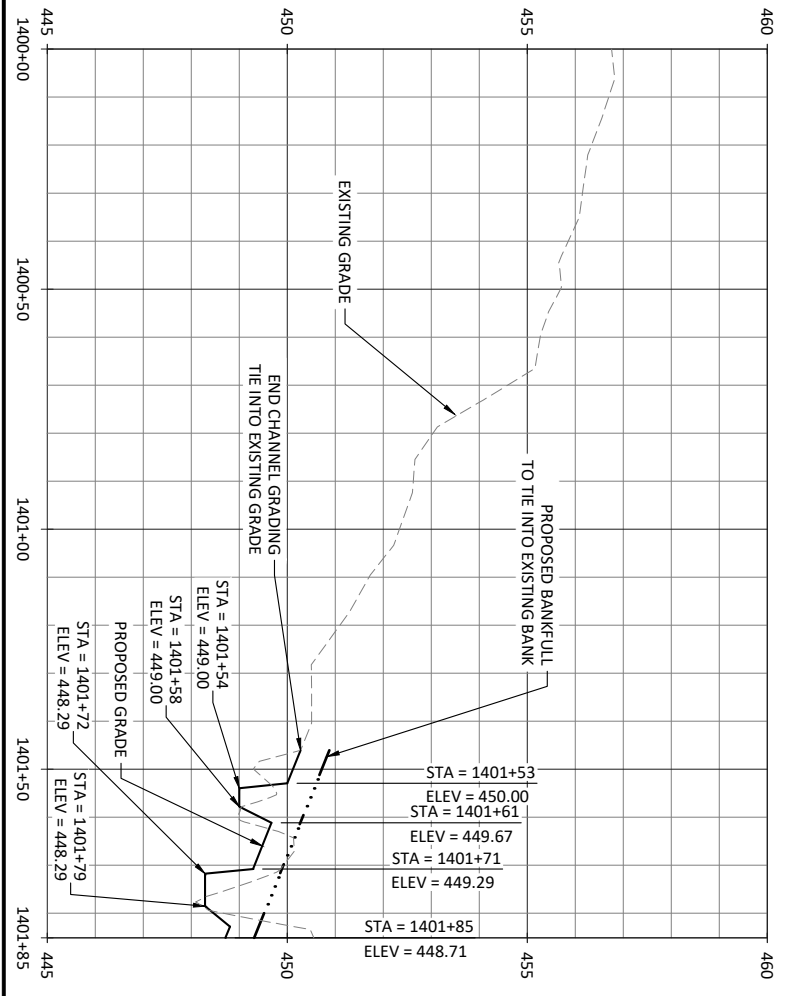
497 Bramson Ct, Suite 104
Mount Pleasant, SC 29464
Tel: 843.277.6221
Fax: 843.212.2101

Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MIC
Checked By: DHJ

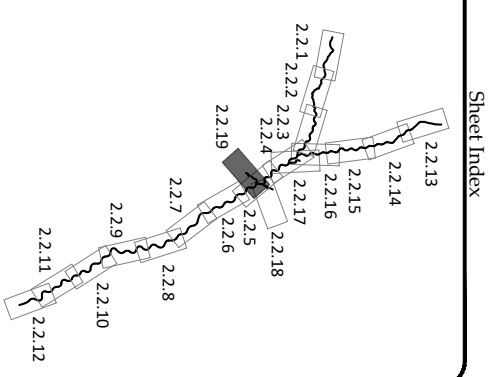
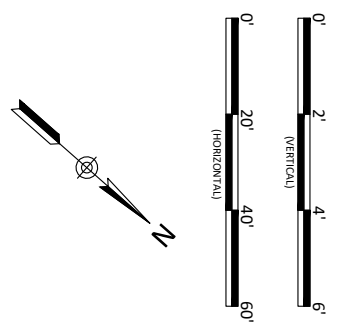
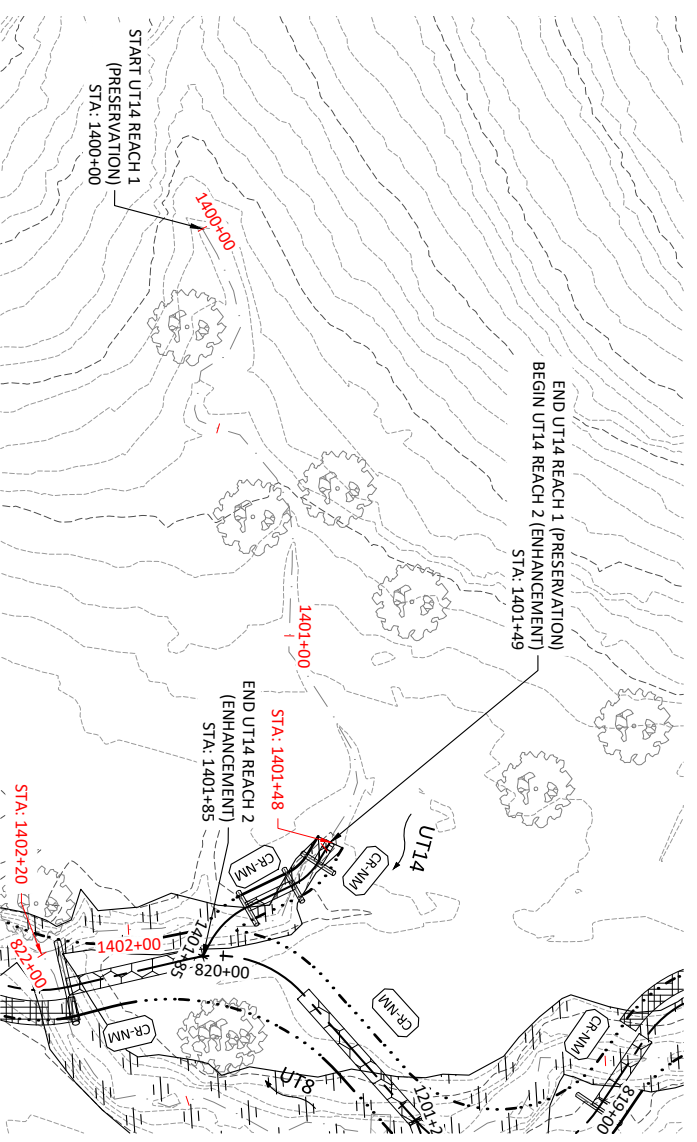
Revisions:

2.2.18

PERMITTED PLANS



Impact #	Description	Average Stream Width (FT)	Impact Type	Impact Length (FT)	Unit Quantity of Material Discharged (CY/FT)	Total Impact
4	Off-line Channel Construction	12	Soil Fill	72	0.95	68 CV



Carolina Crossroads Mitigation Site - PH Timber Tract
Newberry County, South Carolina

UT14 Reach 2
PCN

PRELIMINARY
DO NOT
USE FOR
CONSTRUCTION



Date: 05.20.2020
Job Number: 005-05200
Project Engineer: GLS
Drawn By: MIC
Checked By: DHJ

Revisions:

2.2.19

Permit Number: _____

Name of Permittee: _____

Date of Issuance: _____

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

U.S. Army Corps of Engineers
Regulatory Division
Northwest Branch
1835 Assembly Street, Room 865
Columbia, South Carolina 29201

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

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

Signature of Permittee