



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

DANIEL H. JOHNSON  
SECRETARY

8/27/2026

U. S. Army Corps of Engineers  
Water Resources Development Act (WRDA)  
Transportation Permitting Branch

NC Division of Water Resources  
Transportation Permitting Branch

ATTN: NCDOT Coordinator

NCDOT Coordinator

Subject: **Modification of Regional General Permit 50 & 401 Water Quality and Catawba Riparian Buffer Certification** for the Replacement of Bridge 10 over Catawba River/Lake Rhodhiss on SR 1001 (Malcolm Blvd/Connelly Springs Road) in Burke and Caldwell County, Division 13 and 11, TIP No. R-3430B, WBS: 34544.3.3

Reference: USACE 404 RGP 50 SAW-2019-01368  
NCDWR 401 20221711

Dear NCDOT Coordinators:

The North Carolina Department of Transportation (NCDOT) hereby requests modification of the above-referenced permits for the subject project.

Due to lake levels being lower than anticipated, the barges can't get close enough to the edge of the temporary rock causeway pad that was previously proposed and permitted. Instead of proposing to add more rock fill to the lake, temporary spanning trestles are now proposed for the purposes of barge access. These temporary work trestles will eliminate the need for more rock placement within the lake, therefore result in less sediment and habitat disturbance, are easier to remove once construction is complete, and will reach to where the lake levels are deep enough for the barges.

This change in temporary construction access design results in an additional 0.02 ac of temporary impacts to the Catawba River/Lake Rhodhiss, an additional 3,984 sq ft of Zone 1 buffer impacts, and an additional 3,310 sq ft of Zone 2 buffer impacts. See following tables for impact comparisons and totals.

**Comparison of permitted and modified lake impact numbers (all temporary)**

| Impact ID     | Previous Impact Numbers (ac) | Modified Impact Numbers (ac) |
|---------------|------------------------------|------------------------------|
| Site 1        | 0.06                         | 0.06                         |
| Site 2        | 0.19                         | 0.23                         |
| Site 3        | 0.02                         | 0                            |
| <b>Total:</b> | <b>0.27</b>                  | <b>0.29</b>                  |

\* Impact numbers that have changed are in red.

**Comparison of permitted and modified Catawba Buffer impact numbers (all allowable)**

| Impact ID        | Previous Impact Numbers (sq ft) |               | Modified Impact Numbers (sq ft) |               |
|------------------|---------------------------------|---------------|---------------------------------|---------------|
|                  | Zone 1                          | Zone 2        | Zone 1                          | Zone 2        |
| Site 1 - Roadway | 0                               | 924           | 0                               | 924           |
| Site 1 - Bridge  | 7,955                           | 4,453         | 7,955                           | 4,453         |
| Site 2 - Bridge  | 11,721                          | 6,877         | 15,705                          | 10,187        |
| Site 2 - Roadway | 1,083                           | 1,798         | 1,083                           | 1,798         |
| Site 2 - Roadway | 0                               | 1,377         | 0                               | 1,377         |
| <b>Total:</b>    | <b>20,759</b>                   | <b>15,429</b> | <b>24,743</b>                   | <b>18,739</b> |

\* Impact numbers that have changed are in red.

Revised permit drawings and buffer drawings are attached. There have been no other changes to this project since the April/May 2026 permit renewal. There are no permanent impacts to Waters of the U.S., so no mitigation is required. All buffer impacts are allowable.

If you have any questions or need additional information, please contact Erin Cheely at [ekcheely@ncdot.gov](mailto:ekcheely@ncdot.gov) or (919)707-6108.

Sincerely,



Erin K. Cheely

ECAP Western Team Lead

# Project Submittal Interim Form



Updated March 16, 2026

*Please note: fields marked with a red asterisk \* below are required. You will not be able to submit the form until all mandatory questions are answered.*

## Project Type: \*

- |                                                                            |                                                 |
|----------------------------------------------------------------------------|-------------------------------------------------|
| <input type="radio"/> For the Record Only (Courtesy Copy)                  | <input type="radio"/> New Project               |
| <input checked="" type="radio"/> Modification/New Project with Existing ID | <input type="radio"/> More Information Response |
| <input type="radio"/> Other Agency Comments                                | <input type="radio"/> Pre-Application Submittal |
| <input type="radio"/> Re-Issuance/Renewal Request                          | <input type="radio"/> Stream or Buffer Appeal   |

**\* If this is a GP reissuance/renewal please reference the date of the plans and PCN that were originally verified.**

**New Project** - Please check the new project type if you are trying to submit a new project that needs an official approval decision.

**Pre-Application Submittal** – Please check the pre-application submittal if you just want feedback on your submittal and do not have the expectation that your submittal will be considered a complete application requiring a formal decision.

**Modification/New Project With An Existing ID** - Please check this box if you are submitting for a new phase of an existing project, a modification to an existing project or for any additional impacts to an existing project for an official approval decision.

**More Information Response** - Please check this type if you are responding to a request for information from staff and you have an ID# and version for this response.

**Other Agency Comments** - Please check this if you are submitting comments on an existing project.

**Re-issuance/Renewal Request** – Please check this if you are submitting for a re-issuance/renewal prior to expiration date for the corresponding 401/404. If submitting after the expiration date or if modification needed use Modification/New Project with Existing ID option.

## Submittal Type: \*

401 Application - Individual Certification (IC/WQC)

## Is buffer approval also required? \*

- ☒ Yes ☐ No

## Project Contact Information

### Name:

Erin Cheely

*Who is submitting the information?*

### Email Address: \*

ekcheely@ncdot.gov

## Project Information

**Existing ID #:** \*

20221711

20170001 (no dashes)

**Existing Version:** \*

2

1

**Project Name:** \*

R-3430B - Bridge 10 over Catawba River/Lake Rhodhiss on SR 1001 (Malcolm Blvd/Connelly Springs Rd)

**Is this a public transportation project?** \*

☐ Yes

☐ No

**Is this a DOT project?** \*

☐ Yes

☐ No

**TIP#:**

R-3430B

**WBS#:**

34544.3.3

(Applies to DOT projects only)

**Project Status**

If you selected "Re-Issuance/Renewal Request" or "Modification/New Project with Existing ID" for your project type at the top of this form, please enter the current status of your project.

☐ Pre-let

☒ Under Construction

☐ Utility Relocation Underway

☐ In-Field Adjustment

\*\*Only choose "In-Field Adjustment" if directed to do so by 401 staff\*\*

**Is this application for a project associated with emergency response/repairs from Hurricane Helene impacts to your project or property?** \*

☐ Yes ☒ No

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

☐ Yes ☒ No ☐ Unknown

**Does this project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund, electric generation projects located at an existing or former electric generating facility, or involve the distribution or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity?** \*

☐ Yes ☒ No

**Is this project connected with ARPA funding or S.L. 2023-134 (earmark)?** \*

☐ ARPA ☐ S.L. 2023-134 (earmark) ☒ No

**Is this application being filed jointly with another party involved with this project?** \*

☐ Yes ☒ No

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**County (ies)** \*

Burke

Caldwell

**Please upload all files that need to be submitted.**

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

R-3430B 2026-08-27 Modification Application Package.pdf

3.41MB

Only pdf or kmz files are accepted.

**Describe the attachments or add comments:**

Modification of 404 RGP 50 and 401 Individual Certification.  
Changes to temporary lake impacts and allowable buffer impacts.

\*

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

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

**Signature: \***

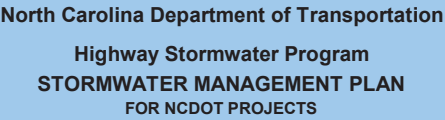
A rectangular box containing a handwritten signature in black ink. The signature is written in a cursive style and reads "Erin K. Cheely".

**Submittal Date:**

8/27/2026

|                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
|--------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------|--|----------------------------------|--|--------------------------------------------------------------------------------|--|-----------------------------------------------------|--|------------------------------------------------------------------------------------|--|-------|--|------|--|
|      |          | North Carolina Department of Transportation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |  |  |       |  |      |  |
| Highway Stormwater Program                                                           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
| STORMWATER MANAGEMENT PLAN                                                           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
| FOR NCDOT PROJECTS                                                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
| (Version 3.00; Released August 2021)                                                 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
| WBS Element:                                                                         |          | 34544.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             | TIP/Proj No:          |  | R-3430B                          |  | County(ies):                                                                   |  | Burke Caldwell                                      |  | Page 1 of 3                                                                        |  |       |  |      |  |
| General Project Information                                                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
| WBS Element:                                                                         |          | 34544.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             | TIP Number:           |  | R-3430B                          |  | Project Type:                                                                  |  | Bridge Replacement                                  |  | Date: 08/17/2022                                                                   |  |       |  |      |  |
| NCDOT Contact:                                                                       |          | Theresa T. Ellerby, CPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |                       |  | Contractor / Designer:           |  | DRMP NC, Inc. / Ryan P. Mitchell, PE                                           |  |                                                     |  |                                                                                    |  |       |  |      |  |
|                                                                                      | Address: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1000 Birch Ridge Drive<br>Raleigh, NC 27610 |                       |  |                                  |  | Address:                                                                       |  | 8000 Regency Parkway<br>Suite 110<br>Cary, NC 27518 |  |                                                                                    |  |       |  |      |  |
|                                                                                      | Phone:   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (919) 707-6020                              |                       |  |                                  |  | Phone:                                                                         |  | (919) 650-1038                                      |  |                                                                                    |  |       |  |      |  |
|                                                                                      | Email:   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | tellerby@ncdot.gov                          |                       |  |                                  |  | Email:                                                                         |  | rmitchell@drmp.com                                  |  |                                                                                    |  |       |  |      |  |
| City/Town:                                                                           |          | Town of Valdese / Town of Rutherford College                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                       |  | County(ies):                     |  | Burke                                                                          |  | Caldwell                                            |  |                                                                                    |  |       |  |      |  |
| River Basin(s):                                                                      |          | Catawba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |                       |  | CAMA County?                     |  | No                                                                             |  | No                                                  |  |                                                                                    |  |       |  |      |  |
| Wetlands within Project Limits?                                                      |          | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
| Project Description                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
| Project Length (lin. miles or feet):                                                 |          | 0.587 miles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             | Surrounding Land Use: |  | Light Residential / Recreational |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |
|                                                                                      |          | Proposed Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |                       |  |                                  |  | Existing Site                                                                  |  |                                                     |  |                                                                                    |  |       |  |      |  |
| Project Built-Up Area (ac.)                                                          |          | 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             | ac.                   |  | 1.5                              |  | ac.                                                                            |  |                                                     |  |                                                                                    |  |       |  |      |  |
| Typical Cross Section Description:                                                   |          | One (1) 12-foot travel lane each direction. 5-foot paved shoulders with roadway ditches on both sides. Guardrail and 2'-6" curb and gutter where applicable.                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                       |  |                                  |  | One (1) 11-foot travel lane each direction with roadway ditches on both sides. |  |                                                     |  |                                                                                    |  |       |  |      |  |
| Annual Avg Daily Traffic (veh/hr/day):                                               |          | Design/Future:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             | 12100                 |  | Year:                            |  | 2045                                                                           |  | Existing:                                           |  | 10481                                                                              |  | Year: |  | 2022 |  |
| General Project Narrative:<br>(Description of Minimization of Water Quality Impacts) |          | R-3430B proposes to replace the Castle Bridge over the Catawba River (Lake Rhodhiss) with additional roadway and drainage improvements upstation/downstation of the proposed bridge. Riprap/bank stabilization at pipe outlets, ditches, and the surface water bank has been incorporated to minimize erosion on slopes where vegetation will not be adequate. NCDOT standards for ground cover, vegetation, and slope stabilization will be adhered to during the life of this project, and will be specified in the NCDOT Erosion and Sediment Control Plan for the project. |                                             |                       |  |                                  |  |                                                                                |  |                                                     |  |                                                                                    |  |       |  |      |  |

|                                                                                  |  |                                                                                                                                                                  |  |                                    |  |                                                                                                      |  |
|----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|------------------------------------------------------------------------------------------------------|--|
|  |  | <div>North Carolina Department of Transportation</div> <div>Highway Stormwater Program</div> <div>STORMWATER MANAGEMENT PLAN</div> <div>FOR NCDOT PROJECTS</div> |  |                                    |  |                    |  |
| <div>(Version 3.00; Released August 2021)</div>                                  |  |                                                                                                                                                                  |  |                                    |  |                                                                                                      |  |
| WBS Element: 34544.1.4                                                           |  | TIP/Proj No.: R-3430B                                                                                                                                            |  | County(ies): Burke Caldwell        |  | Page 2 of 3                                                                                          |  |
| General Project Information                                                      |  |                                                                                                                                                                  |  |                                    |  |                                                                                                      |  |
| Waterbody Information #####                                                      |  |                                                                                                                                                                  |  |                                    |  |                                                                                                      |  |
| Surface Water Body (1):                                                          |  | Catawba River                                                                                                                                                    |  | NCDWR Stream Index No.:            |  | DRMP NC, Inc. / Ryan P. Mitchell, PE                                                                 |  |
| NCDWR Surface Water Classification for Water Body                                |  | Primary Classification:                                                                                                                                          |  | Water Supply IV (WS-IV)            |  | Class B                                                                                              |  |
|                                                                                  |  | Supplemental Classification:                                                                                                                                     |  | None                               |  | Critical Area (CA)                                                                                   |  |
| Other Stream Classification:                                                     |  | None                                                                                                                                                             |  |                                    |  |                                                                                                      |  |
| Impairments:                                                                     |  | None                                                                                                                                                             |  |                                    |  |                                                                                                      |  |
| Aquatic T&E Species?                                                             |  | No                                                                                                                                                               |  | Comments:                          |  |                                                                                                      |  |
| NRTR Stream ID:                                                                  |  | Town of Valdese / Town of Rutherford College                                                                                                                     |  |                                    |  | Buffer Rules in Effect:                                                                              |  |
| Project Includes Bridge Spanning Water Body?                                     |  | Yes                                                                                                                                                              |  | Deck Drains Discharge Over Buffer? |  | Catawba                                                                                              |  |
| Deck Drains Discharge Over Water Body?                                           |  | No                                                                                                                                                               |  | No                                 |  | Dissipator Pads Provided in Buffer?                                                                  |  |
| (If yes, provide justification in the General Project Narrative)                 |  | (If yes, provide justification in the General Project Narrative)                                                                                                 |  |                                    |  | (If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative) |  |



(Version 3.00; Released August 2021)

**WBS Element: 34544.1.4**

**TIP/Proj No.: R-3430B**

County(ies): Burke Caldwell

Page 3 of 3

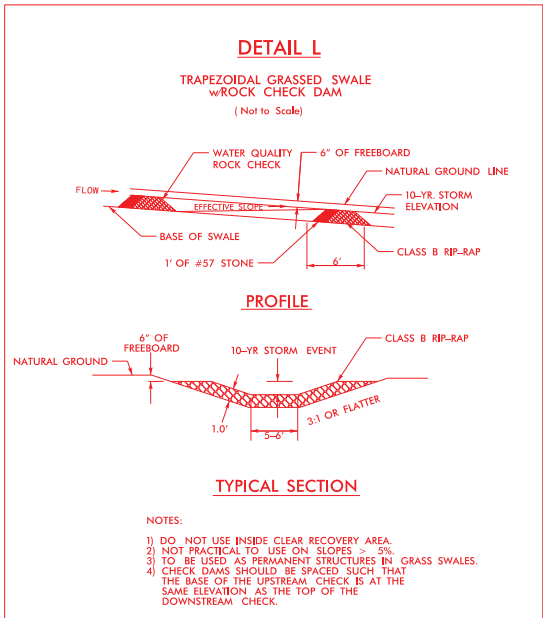
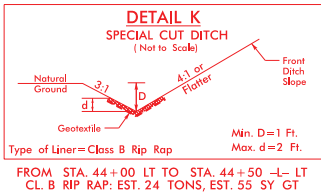
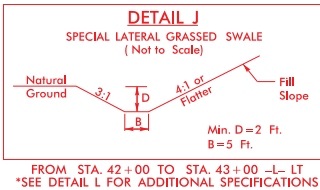
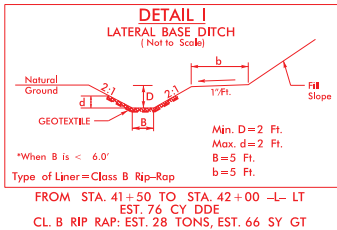
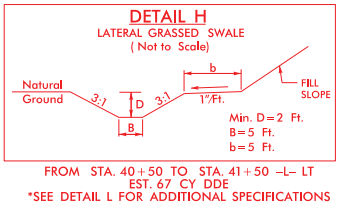
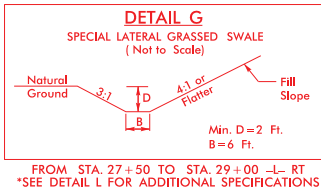
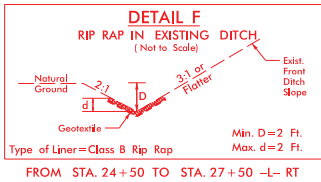
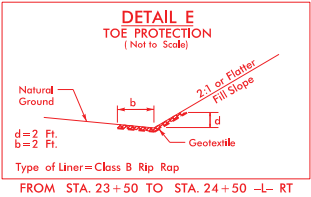
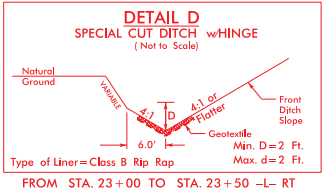
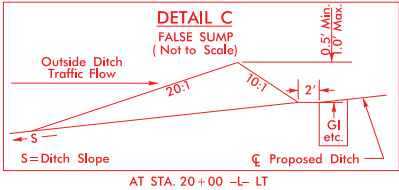
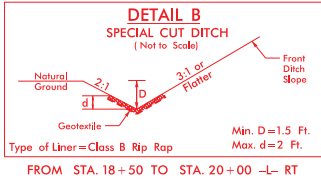
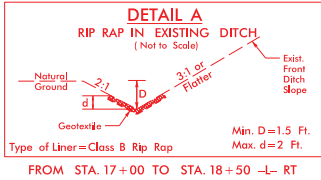
## Swale

[illegible]

### Additional Comments

Swales were designed at each end of the proposed bridge for as long as the topography allowed to promote diffuse flow into the buffer zone. Rock checks are proposed for all swales to account for not meeting recommended treatment length and V2 requirements. Swales at a minimum provide roughly 100 feet of treatment length per acre of impervious area draining to them in the post-construction condition. The proposed swale from -L- 40+50 to 43+00 LT has a total length of 200 feet that meets swale criteria and 2.18 acres of impervious area drained. The proposed swale from -L- 28+00 to 29+00 RT has a total length of 100 feet that meets swale criteria and 0.88 acres of impervious area drained.



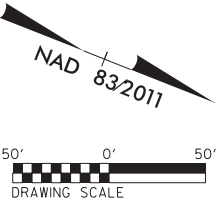


|                                                                                                                                                   |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROJECT REFERENCE NO.                                                                                                                             | SHEET NO. |
| R-3430B                                                                                                                                           | 2D-1      |
| R/W SHEET NO.                                                                                                                                     |           |
| HYDRAULICS ENGINEER                                                                                                                               |           |
| <b>INCOMPLETE PLANS</b><br>DO NOT USE FOR R/W ACQUISITION                                                                                         |           |
| <b>PRELIMINARY PLANS</b><br>DO NOT USE FOR CONSTRUCTION                                                                                           |           |
| <b>DOCUMENT NOT CONSIDERED FINAL</b><br><b>UNLESS ALL SIGNATURES COMPLETED</b>                                                                    |           |
| PLANS PREPARED BY:<br><b>DRMP</b><br>DRMP, INC. 4235 SOUTH STREAM BLVD., SUITE 150<br>CHARLOTTE, NC 28217<br>NC LICENSE NO. C-2513 (704) 332-2289 |           |
| <b>PERMIT DRAWING</b><br><b>SHEET 2 OF 8</b>                                                                                                      |           |

8/17/99

8/6/2026 11:00:53 AM  
P:\N60606\R3430B\Hydraulics\PERMITS\_Environmental\Drawings\R3430B\_Hyd\_prm\_wet\_psh5.dgn  
Imager

TS TS TEMPORARY SURFACE WATER IMPACTS



|                                                                  |  |                                                              |  |
|------------------------------------------------------------------|--|--------------------------------------------------------------|--|
| PROJECT REFERENCE NO.                                            |  | SHEET NO.                                                    |  |
| R-3430B                                                          |  | 05                                                           |  |
| RW SHEET NO.                                                     |  |                                                              |  |
| ROADWAY DESIGN<br>ENGINEER                                       |  | HYDRAULICS<br>ENGINEER                                       |  |
| <div>INCOMPLETE PLANS<br/>DO NOT USE FOR R/W ACQUISITION</div>   |  | <div>PRELIMINARY PLANS<br/>DO NOT USE FOR CONSTRUCTION</div> |  |
|                                                                  |  |                                                              |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |  |                                                              |  |

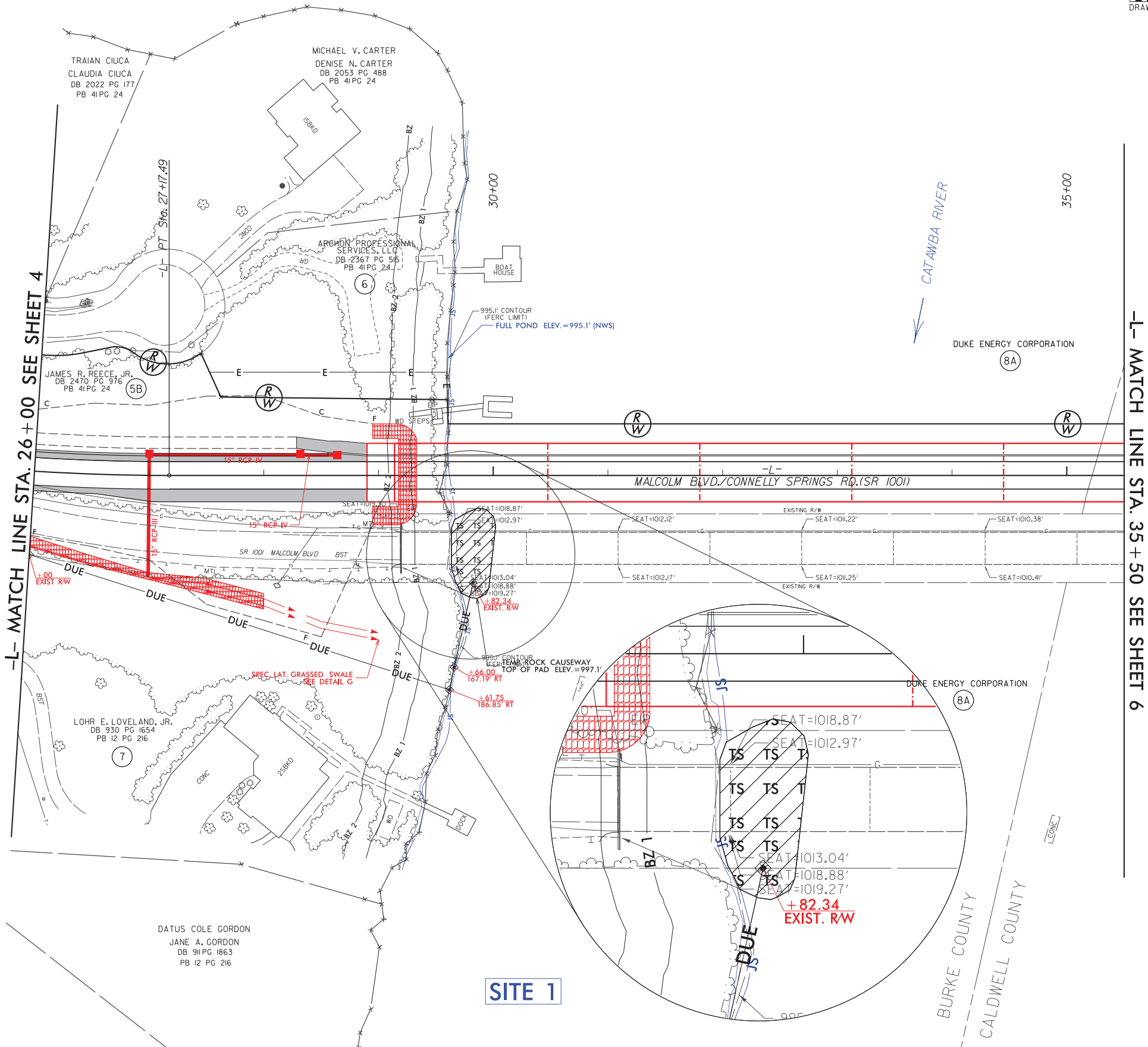
PLANS PREPARED BY:



**DRMP**

DRMP INC. INC.  
4235 SOUTH STREAM BLVD., SUITE 150  
CHARLOTTE, NC 28217  
NC LICENSE NO. C-4923 (704) 332-2289

**PERMIT DRAWING  
SHEET 3 OF 8**





8/17/99

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meyer

-L- MATCH LINE STA. 35 + 50 SEE SHEET 5

BURKE COUNTY  
CALDWELL COUNTY

DUKE ENERGY CORPORATION  
(8A)

MALCOLM BLVD./  
CONNELLY SPRINGS RD. (SR 1001)

SEAT=1009.66' SEAT=1009.31' SEAT=1015.08' SEAT=1014.80'  
SEAT=1009.64' SEAT=1009.26' SEAT=1015.08' SEAT=1014.80'

UNCLAS. STRUC. EXCAVATION  
(STR. PAY ITEM)

DUKE ENERGY CORPORATION  
(8A)



TEMPORARY SURFACE WATER IMPACTS

SITE 2

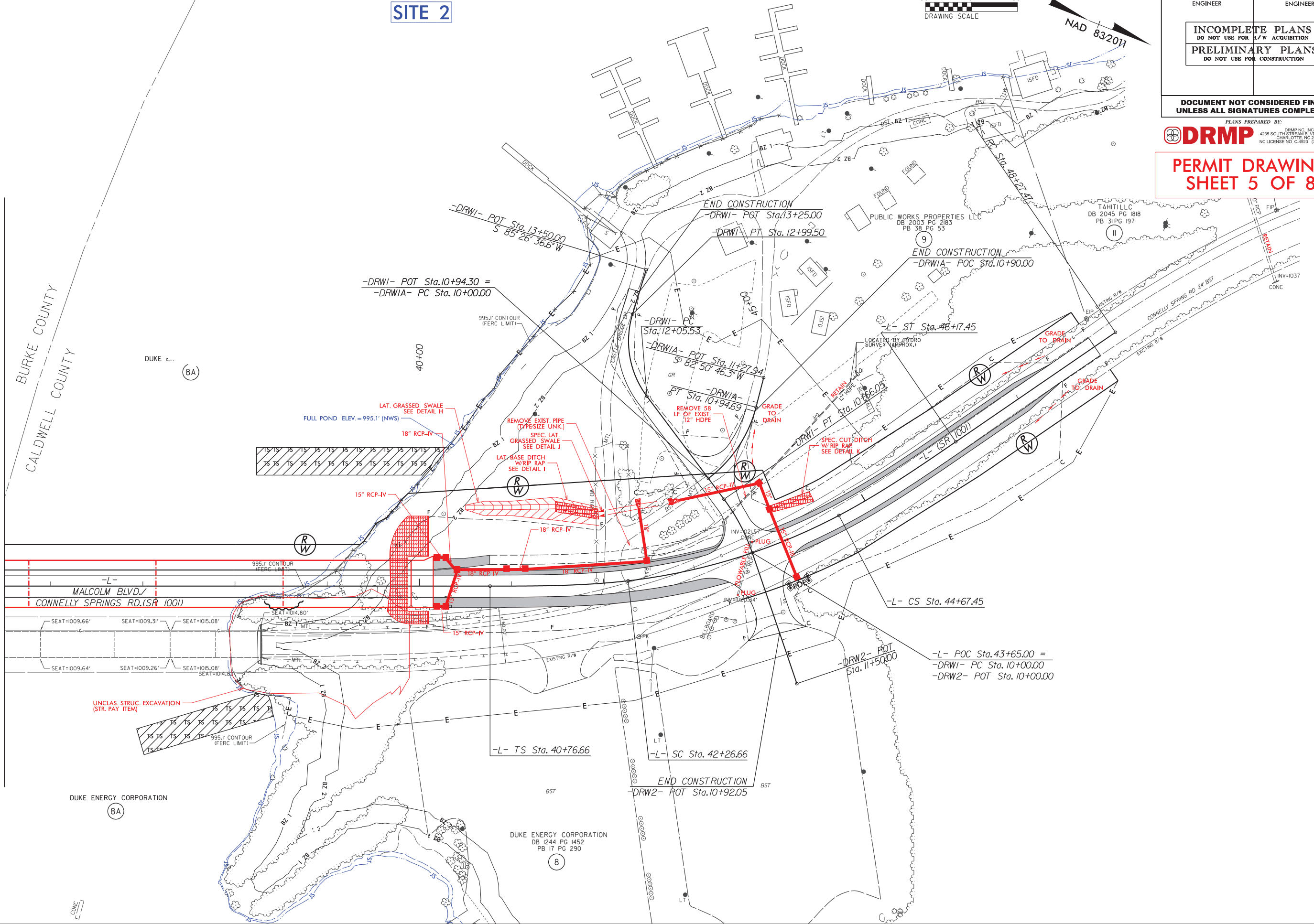
50' 0' 50'  
DRAWING SCALE

NAD 83 2011

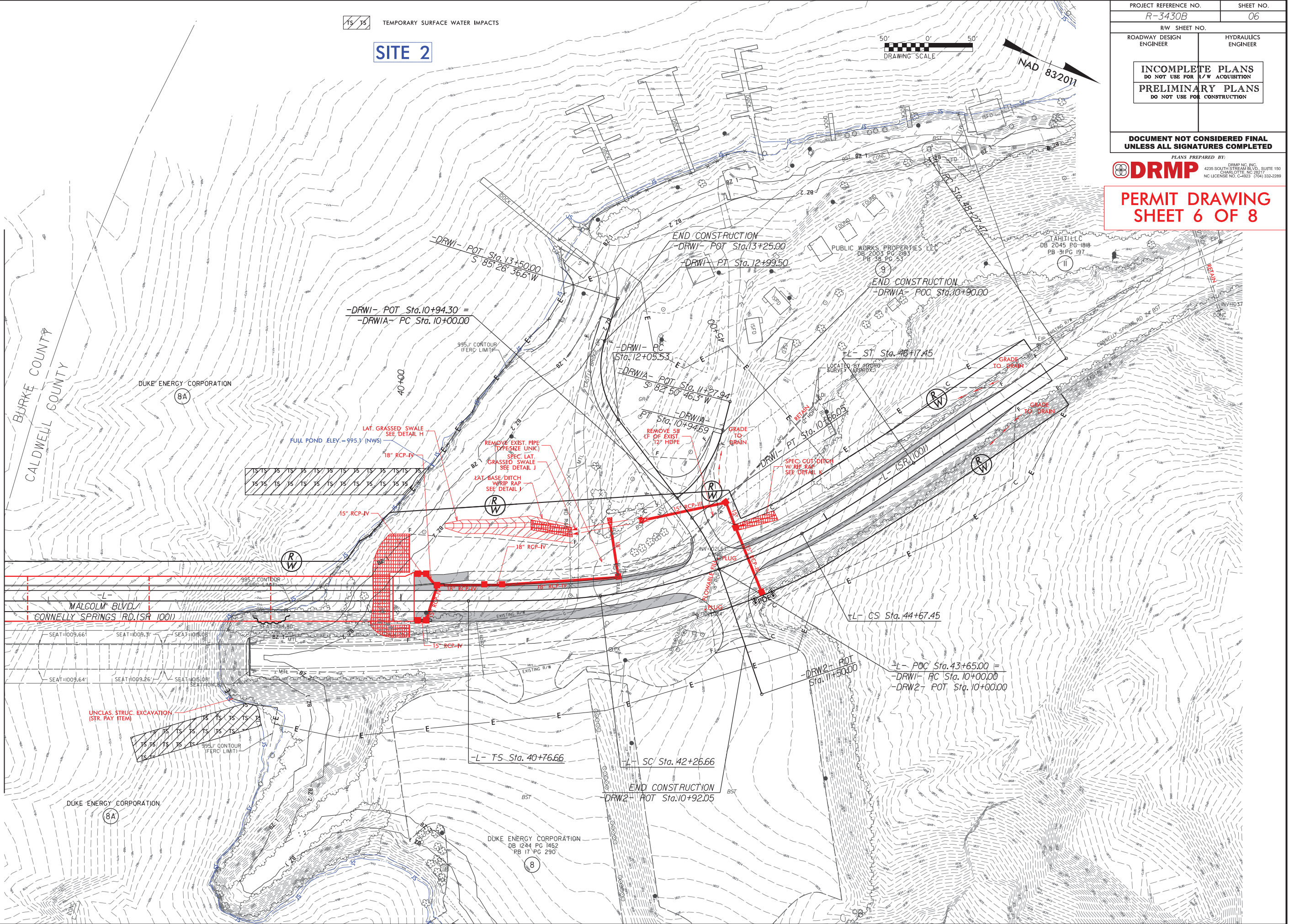
|                                                                  |  |                        |  |
|------------------------------------------------------------------|--|------------------------|--|
| PROJECT REFERENCE NO.<br><i>R-3430B</i>                          |  | SHEET NO.<br><i>06</i> |  |
| RW SHEET NO.                                                     |  |                        |  |
| ROADWAY DESIGN<br>ENGINEER                                       |  | HYDRAULICS<br>ENGINEER |  |
| <div>INCOMPLETE PLANS<br/>DO NOT USE FOR R/W ACQUISITION</div>   |  |                        |  |
| <div>PRELIMINARY PLANS<br/>DO NOT USE FOR CONSTRUCTION</div>     |  |                        |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |  |                        |  |

PLANS PREPARED BY:  
**DRMP** DRMP INC. 4235 SOUTH STREAM BLVD., SUITE 150  
CHARLOTTE, NC 28217  
NC LICENSE NO. C-4923 (704) 332-2289

PERMIT DRAWING  
SHEET 5 OF 8



-L- MATCH LINE STA. 35 + 50 SEE SHEET 5



TS TS TEMPORARY SURFACE WATER IMPACTS

SITE 2

50' 0' 50'  
DRAWING SCALE

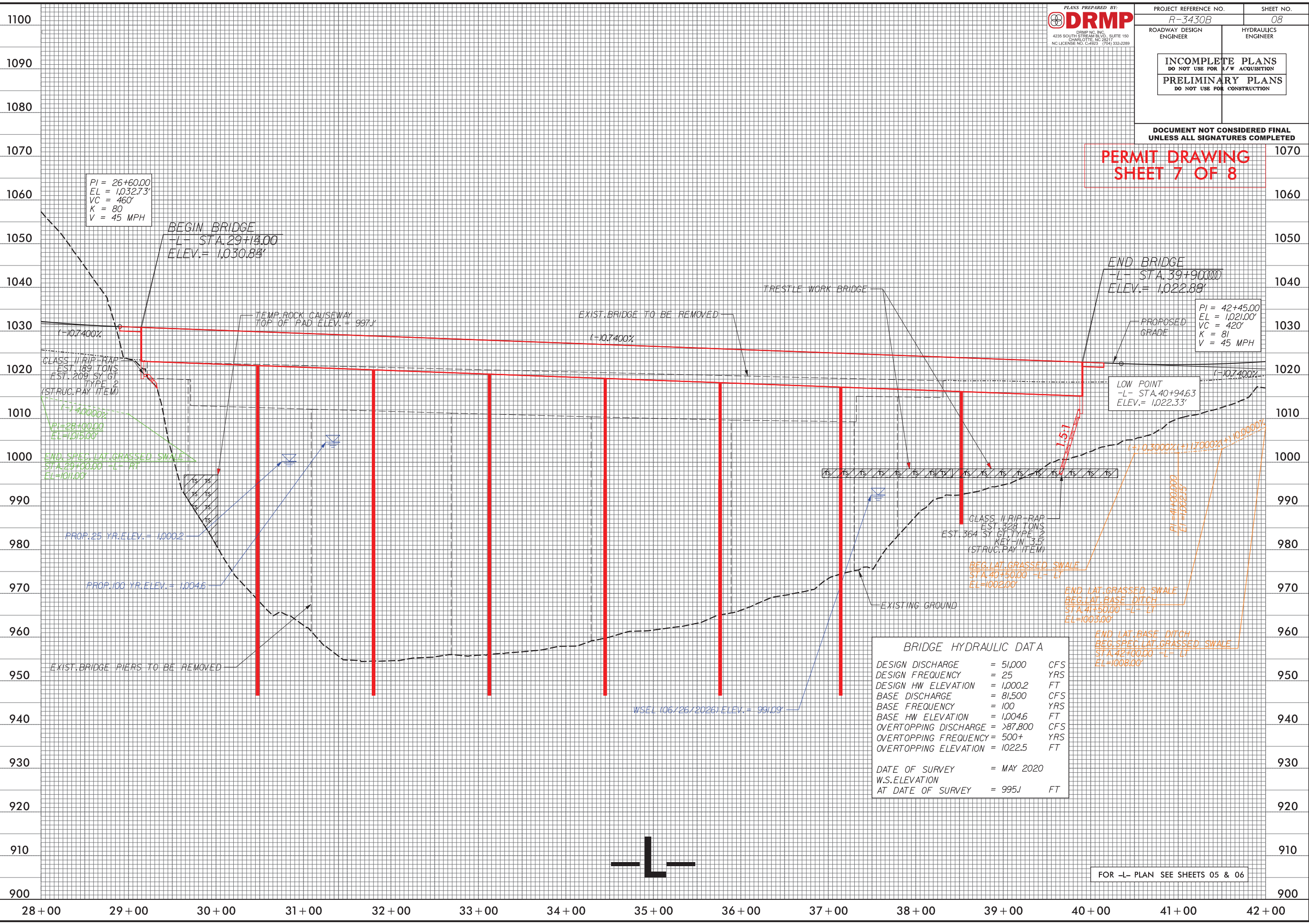
NAD 83 2011

|                                                                                                                             |                        |                 |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|
| PROJECT REFERENCE NO.<br>R-3430B                                                                                            |                        | SHEET NO.<br>06 |
| RW SHEET NO.                                                                                                                |                        |                 |
| ROADWAY DESIGN<br>ENGINEER                                                                                                  | HYDRAULICS<br>ENGINEER |                 |
| <div>INCOMPLETE PLANS<br/>DO NOT USE FOR R/W ACQUISITION</div> <div>PRELIMINARY PLANS<br/>DO NOT USE FOR CONSTRUCTION</div> |                        |                 |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                            |                        |                 |

PLANS PREPARED BY:  
**DRMP** DRMP INC. 4235 SOUTH STREAM BLVD., SUITE 150  
CHARLOTTE, NC 28217  
NC LICENSE NO. C-4923 (704) 332-2289

PERMIT DRAWING  
SHEET 6 OF 8

5/14/99  
B:\2026\10404 AM  
R3430B\Hydraulics\PERMITS\Environmental\Drawings\R3430B\_Hyd.prm\_wet.pfb.dgn  
Inventor



PLANS PREPARED BY:  
**DRMP**  
DRMP NC, INC.  
4235 SOUTH STREAM BLVD., SUITE 150  
CHARLOTTE, NC 28217  
NC LICENSE NO. C-4923 (704) 332-2289

PROJECT REFERENCE NO.  
**R-3430B**

SHEET NO.  
**08**

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING  
SHEET 7 OF 8

| WETLAND AND SURACE WATER IMPACTS SUMMARY |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|------------------------------------------|--------------------|-----------------------|---------------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------|---------------------------|-----------------------|-----------------------------------------|-------------------------------------|----------------------------|
|                                          |                    |                       | WETLAND IMPACTS                 |                             |                             |                                      |                                | SURFACE WATER IMPACTS     |                       |                                         |                                     |                            |
| Site No.                                 | Station (From/To)  | Structure Size / Type | Permanent Fill In Wetlands (ac) | Temp. Fill In Wetlands (ac) | Excavation in Wetlands (ac) | Mechanized Clearing in Wetlands (ac) | Hand Clearing in Wetlands (ac) | Permanent SW impacts (ac) | Temp. SW impacts (ac) | Existing Channel Impacts Permanent (ft) | Existing Channel Impacts Temp. (ft) | Natural Stream Design (ft) |
| 1                                        | 29+64/30+02 -L- RT | TEMP. ROCK CAUSEWAY   |                                 |                             |                             |                                      |                                |                           | 0.06                  |                                         |                                     |                            |
| 2                                        | 36+93/38+42 -L- RT | TRESTLE               |                                 |                             |                             |                                      |                                |                           | 0.10                  |                                         |                                     |                            |
| 2                                        | 38+23/40+28 -L- LT | TRESTLE               |                                 |                             |                             |                                      |                                |                           | 0.13                  |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
|                                          |                    |                       |                                 |                             |                             |                                      |                                |                           |                       |                                         |                                     |                            |
| TOTALS*:                                 |                    |                       |                                 |                             |                             |                                      |                                |                           | 0.29                  | 0                                       | 0                                   | 0                          |

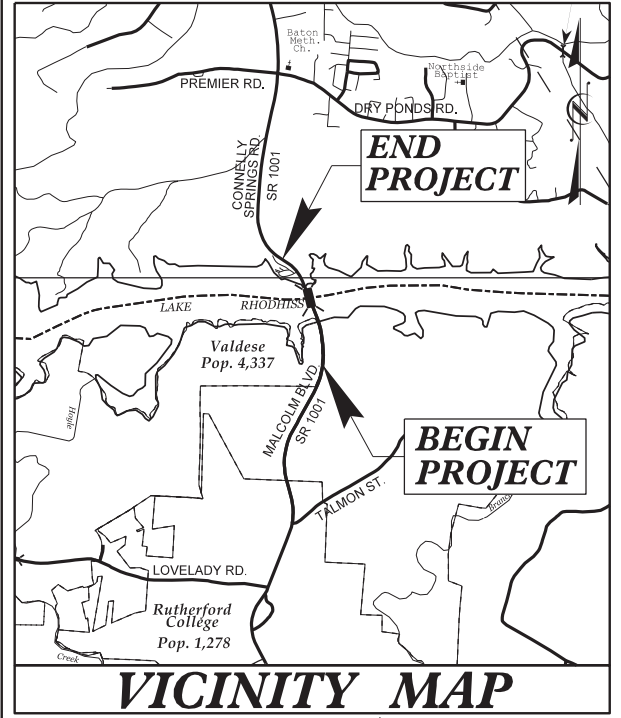
NOTES:  
Proposed area of new piers in water (using the normal pond elevation of 995.1') is 264 sq. ft.  
Pier footings are 4' in diameter. There are seven interior bents falling within the water and three piers per interior bent.

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
08/06/2026  
BURKE / CALDWELL  
R-3430B  
34544.1.4  
SHEET 8 OF 8

05/30/17  
B:\62026 R3430B Hyd\autics\PERMITS\_Environmental\Drawings\R3430B\_HydLprm\_buf\_t.sh.dgn  
11/16/2026 10:59:37 AM  
never

**TIP PROJECT: R-3430B**  
**CONTRACT:**

See Sheet 1A For Index of Sheets  
See Sheet 1B For Conventional Symbols  
See RW Sheet Series For Survey Control



75% PLANS

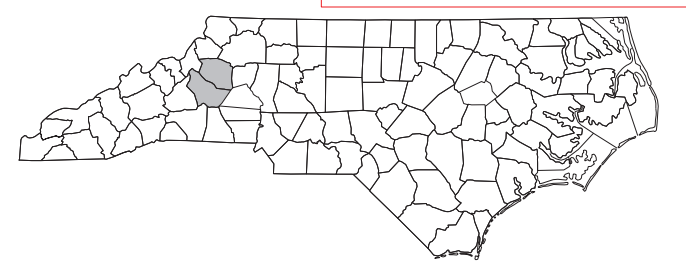
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS **BURKE/CALDWELL COUNTY**

**LOCATION: SR 1001 (CONNELLY SPRINGS ROAD),  
BURKE COUNTY CONSTRUCT NEW PARALLEL  
BRIDGE OVER CATAWBA RIVER**  
**TYPE OF WORK: GRADING, PAVING, DRAINAGE  
& STRUCTURES**

**BUFFER IMPACTS PERMIT**

| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C.            | R-3430B                     | 1           |              |
| STATE PROJ. NO. | P.A. PROJ. NO.              | DESCRIPTION |              |
| 34544.1.4       | N/A                         | P.E.        |              |
| 34544.2.3       | N/A                         | RW          |              |
| 34544.2.5       | N/A                         | UTILITIES   |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |

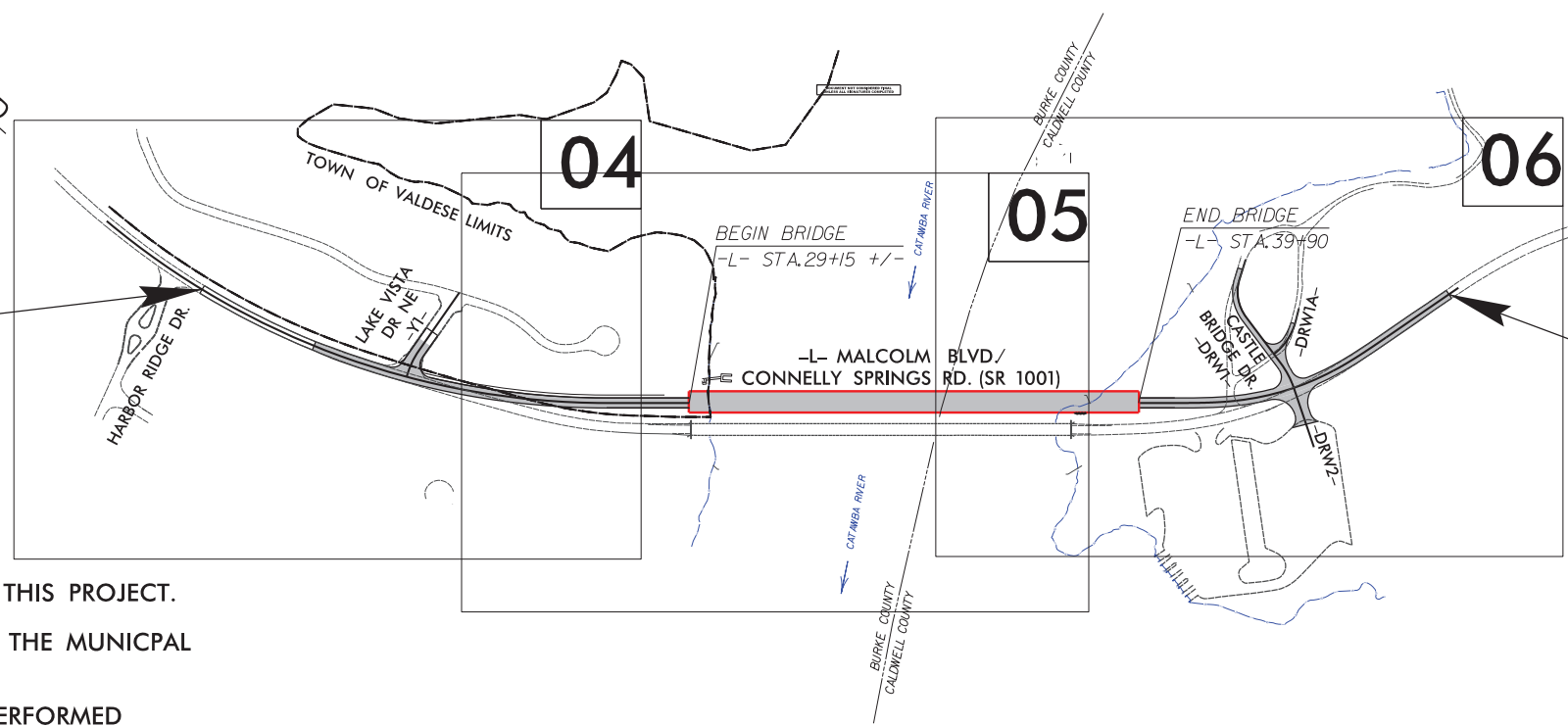
**BUFFER DRAWING  
SHEET 1 OF 5**



NOT TO SCALE

TO  
RUTHERFORD  
COLLEGE

**BEGIN TIP PROJECT R-3430B**  
**-L- STA. 17 + 00.00**



**END TIP PROJECT R-3430B**  
**-L- STA. 48 + 00.00**

TO CAJAH'S  
MOUNTAIN

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

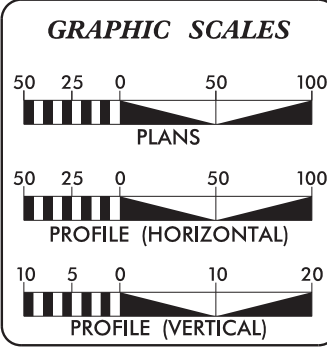
A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF VALDESE.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**DESIGN DATA**

ADT 2022 = 10,481  
ADT 2045 = 12,100

K = 9 %  
D = 60 %  
T = 5 % \*  
V = 50 MPH

\* TTST = 1% DUAL 4%  
FUNC CLASS =  
MINOR ARTERIAL  
REGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT R-3430B = 0.383 MILES  
LENGTH STRUCTURE TIP PROJECT R-3430B = 0.204 MILES  
TOTAL LENGTH TIP PROJECT R-3430B = 0.587 MILES

**PLANS PREPARED BY:**

**DRMP**  
ENGINEERS SURVEYORS PLANNERS SCIENTISTS

FOR  
**PROJECT MANAGEMENT UNIT**

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
MARCH 21, 2022

**LETTING DATE:**  
JANUARY 16, 2024

DRMP NC, INC.  
4235 SOUTH STREAM BLVD., SUITE 150  
CHARLOTTE, NORTH CAROLINA 28217  
(704) 332-2289  
NC LICENSE NO. C-4923

**CHRISTOPHER K. HAIRE, P.E.**  
PROJECT ENGINEER

**MICHAEL D. HAGE, P.E.**  
PROJECT DESIGN ENGINEER

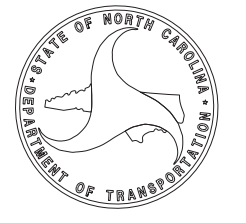
NC DOT CONTACT:  
**THERESA T. ELLERBY, CPM**  
PROJECT MANAGER - DIVISIONS 11-14

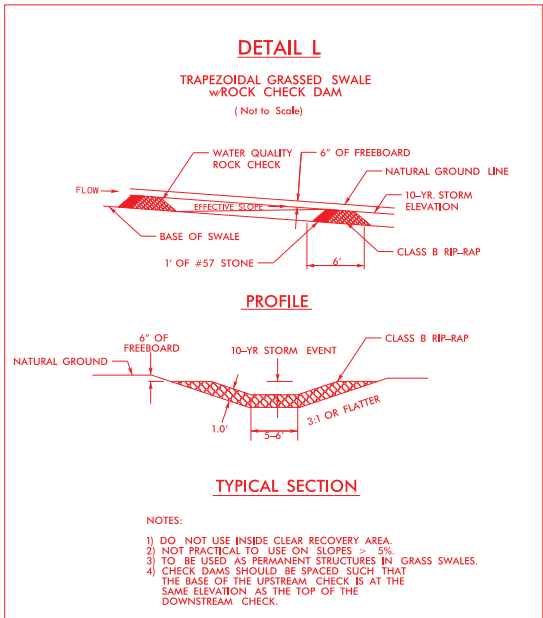
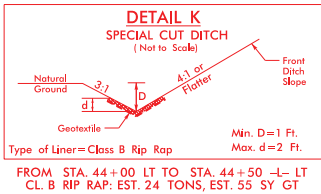
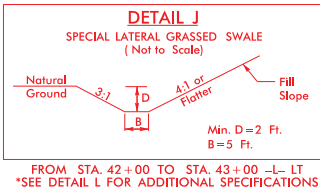
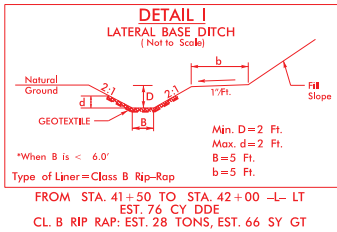
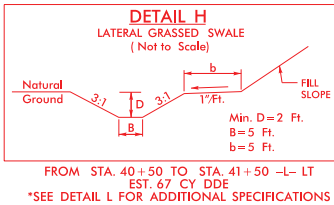
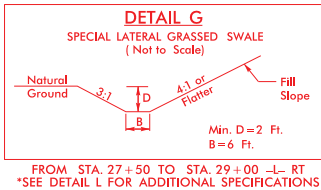
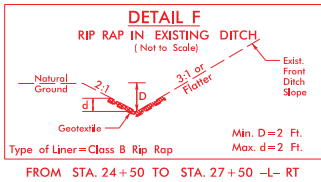
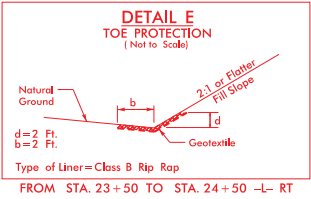
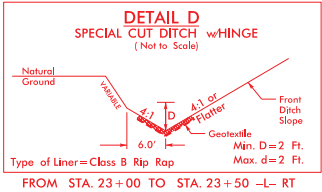
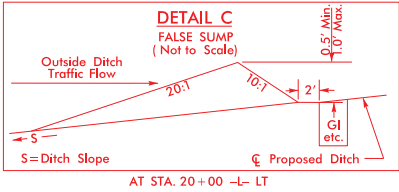
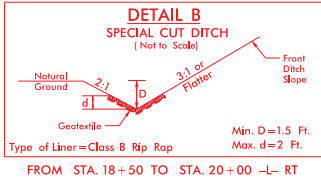
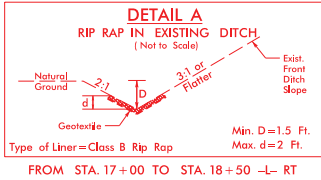
**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

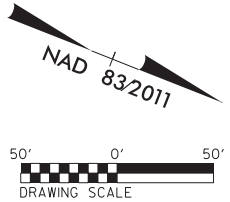




|                                                                                                                                                   |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROJECT REFERENCE NO.                                                                                                                             | SHEET NO. |
| R-3430B                                                                                                                                           | 2D-1      |
| R/W SHEET NO.                                                                                                                                     |           |
| HYDRAULICS ENGINEER                                                                                                                               |           |
| PRELIMINARY PLANS<br>DO NOT USE FOR CONSTRUCTION                                                                                                  |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                                                  |           |
| PLANS PREPARED BY:<br><b>DRMP</b><br>DRMP, INC. 4235 SOUTH STREAM BLVD., SUITE 150<br>CHARLOTTE, NC 28217<br>NC LICENSE NO. C-2513 (704) 332-2289 |           |
| BUFFER DRAWING<br>SHEET 2 OF 5                                                                                                                    |           |

ALLOWABLE IMPACTS ZONE 1

ALLOWABLE IMPACTS ZONE 2

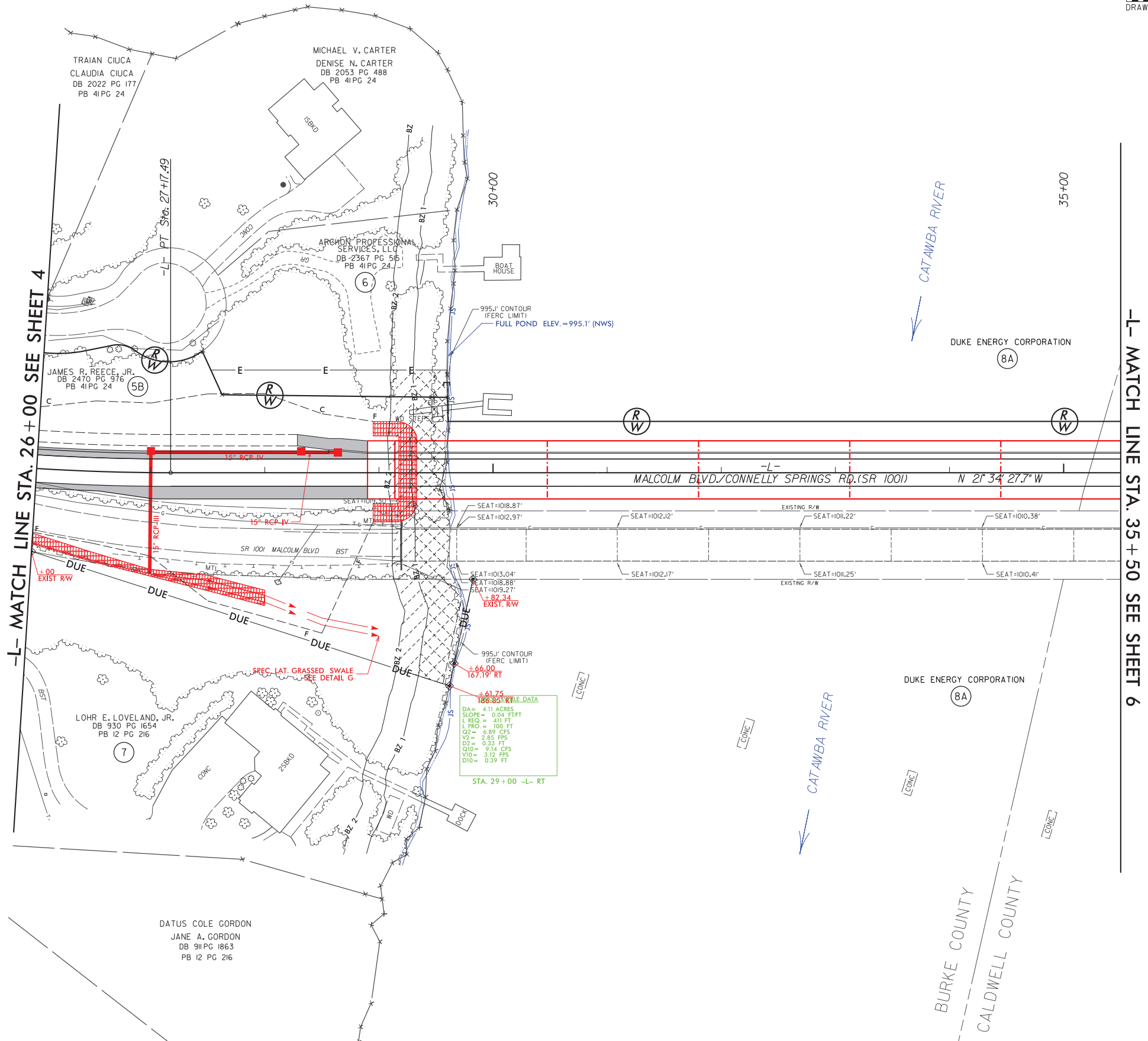


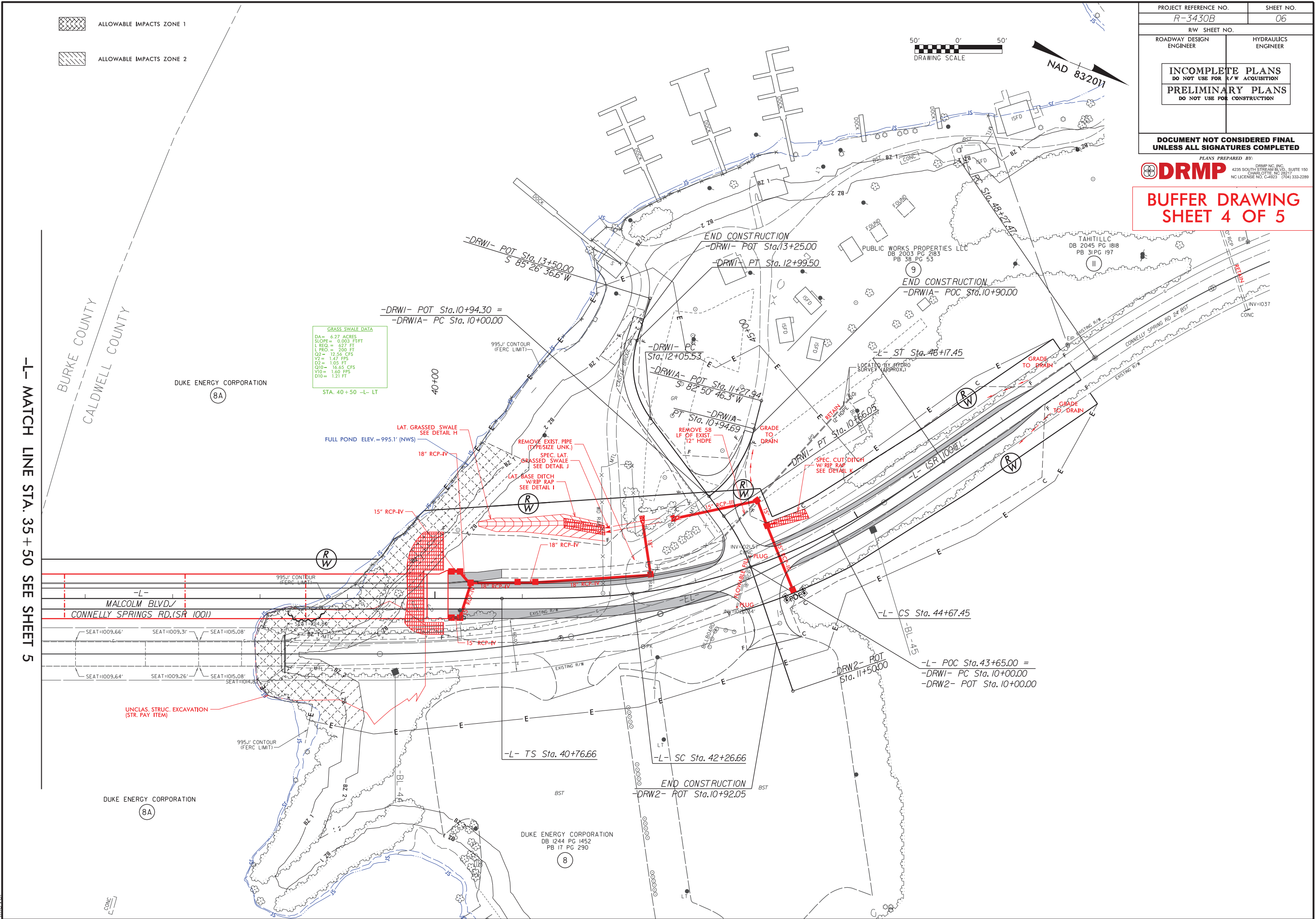
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|-----------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| PROJECT REFERENCE NO.                                                                                                       |  | SHEET NO.              |  |
| R-3430B                                                                                                                     |  | 05                     |  |
| RW SHEET NO.                                                                                                                |  |                        |  |
| ROADWAY DESIGN<br>ENGINEER                                                                                                  |  | HYDRAULICS<br>ENGINEER |  |
| <div>INCOMPLETE PLANS<br/>DO NOT USE FOR R/W ACQUISITION</div> <div>PRELIMINARY PLANS<br/>DO NOT USE FOR CONSTRUCTION</div> |  |                        |  |
|                                                                                                                             |  |                        |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                            |  |                        |  |

PLANS PREPARED BY:

**DRMP** DRMP INC. 4235 SOUTH STREAM BLVD., SUITE 150  
CHARLOTTE, NC 28217  
NC LICENSE NO. C-4923 (704) 332-2289

**BUFFER DRAWING**  
**SHEET 3 OF 5**





## RIPARIAN BUFFER IMPACTS SUMMARY

|          |                       |                       | IMPACTS       |        |                 |              |              |             |              |              |             | BUFFER REPLACEMENT |              |
|----------|-----------------------|-----------------------|---------------|--------|-----------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------------|--------------|
| Site No. | Station (From/To)     | Structure Size / Type | TYPE          |        |                 | ALLOWABLE    |              |             | MITIGABLE    |              |             |                    |              |
|          |                       |                       | ROAD CROSSING | BRIDGE | PARALLEL IMPACT | ZONE 1 (ft²) | ZONE 2 (ft²) | TOTAL (ft²) | ZONE 1 (ft²) | ZONE 2 (ft²) | TOTAL (ft²) | ZONE 1 (ft²)       | ZONE 2 (ft²) |
| 1        | 29+08/29+15 -L-       | ROADWAY FILL          | X             |        |                 |              | 924          | 924         |              |              |             |                    |              |
| 1        | 29+15/29+59 -L-       | BRIDGE                |               | X      |                 | 7955         | 4453         | 12408       |              |              |             |                    |              |
| 2        | 37+94/39+90 -L-       | BRIDGE                |               | X      |                 | 15705        | 10187        | 25892       |              |              |             |                    |              |
| 2        | 39+90/40+63 -L- LT    | ROADWAY FILL          | X             |        |                 | 1083         | 1798         | 2881        |              |              |             |                    |              |
| 2        | 12+71/13+35 -DRW1- LT | ROADWAY FILL          | X             |        |                 |              | 1377         | 1377        |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
|          |                       |                       |               |        |                 |              |              |             |              |              |             |                    |              |
| TOTALS*: |                       |                       |               |        |                 | 24743        | 18739        | 43482       | 0            | 0            | 0           | 0                  | 0            |

NOTES:

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
08/05/2026  
BURKE / CALDWELL  
R-3430B  
34544.1.4

SHEET 5 OF 5