

**ADDENDUM NUMBER ONE  
TO  
CANTON CULVERT PACKAGE - SKYLINE DRIVE, RHODA STREET, MEADOWBROOK DRIVE  
CANTON, NORTH CAROLINA**

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This Addendum Number One is issued this the 5th day of April 2024, to all parties who hold a set of Bidding Documents for the project entitled: "Canton Culvert Package - Skyline Drive, Rhoda Street, Meadowbrook Drive". This Addendum No. 1 shall become part of the Contract Documents and its receipt shall be acknowledged on the bid documents at the time of bidding.

**BIDDERS QUESTIONS:**

The following is a summary of the question-and-answer portion of the pre-bid meeting:

Q: What is the extent of utility replacement, particularly related to the water and sanitary sewer lines' size and material?

A: Contractor shall refer to Specification Section 332660 (water) and 332700 (sewer) for all allowable utility materials for this project. Specific materials and sizes of existing utility lines are unknown. For bidding purposes assume all PVC sewer is SDR 35 (gravity) and all PVC water is SDR 18 (AWWA C900) except at crossings. Assume minimum 20LF of DIP for both water and sewer, where crossing another utility. Once utility exploration has confirmed size and material, the contractor shall coordinate with the Engineer regarding replacement pipe materials, couplings, and other appurtenances.

**PLANS:**

- A. On Sheet G-003, General Notes, General Construction Note 4 - Rhoda was amended to include the following: "Contractor shall prepare a complete traffic control plan and submit to the engineer for approval prior to any partial or full road closures. All public roadways shall remain open at all times unless diverted per the traffic control plan. It is the contractor's responsibility to maintain road surfaces clean and free of construction sediment and debris at all times."
- B. On Sheet G-003, General Notes, General Construction Note 14 - Rhoda was amended to include the following: "Contractor shall remove rock as necessary to achieve no more than a 10% reduction in cross sectional area at any location along the length of the box culvert."
- C. On Sheet G-003, General Notes, General Construction Note 15 - Rhoda was amended to include the following: "The contractor shall have no more than one work area under active construction at any given time. As work progresses the contractor shall backfill and restore temporary access to the public R/W and all private entrances prior to starting active construction on the next work area. No property shall be blocked from vehicular access for more than 6 hours each day. The contractor shall make provisions to maintain mail service, garbage service and property owner access to all properties abutting the active construction zone. The same provisions shall apply during paving operations."
- D. On Sheet G-003, General Notes, General Construction Note 1 – Skyline/Meadowbrook was amended to include the following: "Survey is referenced to HORIZ: NAD83 (2011), State Plane (feet) North Carolina (FIFS 3200), Vertical: North American Vertical Datum of 1988 NAVD 88 (GEOID 124) by McGill Associates on Feb. 25, 2022."
- E. On Sheet G-003, General Notes, General Construction Note 5 – Skyline/Meadowbrook was amended to include the following: "Work in or related to the area immediately downstream of Skyline Drive shall be conducted from the road right of way as not to extend beyond the limits of disturbance and encroach unduly onto parcel 8656-96-6307"

- F. On Sheets G-004 and G-005, Traffic Control Plan Phases, labels were added to include road closed locations and MUTCD signage.
- G. On Sheet CE-100, Rhoda Street – Existing Conditions and Demolition, hatching and notation was added to indicate saw cutting and demolition of a 12” section of pavement on the south side of the project site.
- H. On Sheet CE-101, Skyline Drive – Existing Conditions and Demolition, notation was added to indicate demolition of the existing wall on the north side of the project site.
- I. On Sheet CE-102, Meadowbrook Drive – Existing Conditions and Demolition, notation was added to include the following: “Driveway and culvert have been temporarily backfilled to restore access. Contractor shall remove all temporary fill and gravel.”
- J. On Sheet C-100, Rhoda Street – Site Plan, additional notation for stationing has been added, notation has been added for tie in to existing gabion wall on the west side of the project site, proposed roadway contours have been amended to include exclusively where roadway demolition and repaving will occur, and guardrail locations have been shifted.
- K. On Sheet C-102, Skyline Drive – Plan and Profile, specification has been added for the headwall, and errant notation along the pipe alignment has been removed.
- L. On Sheet S-100, Proposed Culvert Plan, culvert lengths have been amended.
- M. On Sheet C-503, General Details, details have been added for guardrail.
- N. On Sheet S-101, notation indicated precast concrete has been removed and replaced with notation indicating cast-in-place concrete.

**ADVERTISEMENT FOR BIDS:**

- A. The Advertisement for Bids has been amended to remove the final paragraph and language related to compliance with the President’s Executive Order No. 11246 as amended.

**ATTACHMENTS:**

- ADVERTISEMENT FOR BIDS
- CANTON CULVERT PACKAGE – RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE – CIVIL AND STRUCTURAL PLANS
- PRE-BID MEETING MINUTES

**END OF ADDENDUM NO. 1**

This Addendum Number One is issued this the 5<sup>th</sup> day of April 2024.

**MICHAEL HANSON, PE, LEED AP**



5400 Trinity Road, Suite 107  
Raleigh, North Carolina 27607  
919-378-9111  
Firm License No.: C-0459

**PROJECT NO. 22.03002**

## ADVERTISEMENT FOR BIDS

### **Canton Culvert Package – Skyline Drive, Rhoda Street, Meadowbrook Drive**

Sealed bids for the project entitled **Canton Culvert Package – Skyline Drive, Rhoda Street, Meadowbrook Drive** will be received by the **Town of Canton** until **3:00 PM** local time **April 12, 2024**. At said place and time, all Bids that have been duly received, will be publicly opened and read aloud. Mailed or delivered bids should be addressed to:

Town Manager: Nick Scheuer  
Canton Town Hall Boardroom  
85 Summer Street  
Canton, North Carolina 28716

A pre-bid conference will be held on **March 27, 2024, at 3:00 PM** at the **Canton Town Hall, located at 85 Summer Street, Canton, North Carolina 28716**. Interested parties are invited to attend this meeting to review the plans, ask for additional information or clarification and to visit the project site.

#### PROJECT DESCRIPTION –

This bid package incorporates three project sites, each located in the Town of Canton, in Haywood County, North Carolina. The scope of work generally consists of culvert replacement, stream stabilization, construction of two retaining walls, stormwater and sanitary sewer installation, pavement replacement, and select demolition. Traffic control will be required. Completion of work is expected within 180 days of Notice to Proceed.

Digital copies of Bid Documents are available for purchase at [www.mcgillassociates.com](http://www.mcgillassociates.com) for a fee of \$75 per set. These documents may also be viewed for free by selecting this project from the “Bids” link and by entering **Quest Project Number 9025660**. **For assistance and free membership registration, contact QuestCDN at (952) 233-1632 or [info@questcdn.com](mailto:info@questcdn.com).**

Each bid shall be accompanied with a cash deposit or certified check drawn on a bank or trust company insured by the FDIC or a Bid Bond prepared on the form of Bid Bond contained in the Bidding Documents or a Surety Company’s standard form and properly executed by a corporate surety licensed under the laws of North Carolina to execute such bonds. The amount of the bid bond shall be equal to **five (5) percent** of the total of the bid. The bid deposit shall be retained by the Owner if the successful bidder fails to execute the contract or fails to provide the required bonds, as stated above, within ten (10) days after the proper notice of award of the contract.

Bidders must comply with the requirements of the State of North Carolina and be appropriately licensed as a Contractor as provided in General Statutes Chapter 87.

Neither the Owner nor the Engineer will be responsible for full or partial sets of Bidding Documents, including any Addenda, obtained from any source other than the Owner’s representative, McGill Associates, P.A. Each Bidder shall be responsible for the review of all addenda for the project and shall acknowledge the addenda on the bid form.

The Owner reserves the right to reject any and all Bids, to waive informalities, or to reject non-conforming, non-responsive, or conditional bids. The Owner reserves the right to award a

contract to the lowest, responsive, responsible bidder or bidders, taking into consideration quality, performance and time.

The Town of Canton has adopted a “Minority Business Participation Outreach Plan” (MBPOP). The goal of the Town of Canton in adopting its Plan is for the expansion of participation by historically underutilized businesses (HUB) in construction projects as defined in GS 143 -128.2 (g). Equal access and opportunity to participate in all aspects of construction projects shall be provided to HUB. It is the policy of the Town of Canton to award public building contracts without regard to race, religion, color, creed, national origin, sex, age or disabling condition. Each bidder shall make a good faith effort and shall document such efforts to utilize minority businesses and comply with the Town of Canton plan.

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**Nick Scheuer – Town Manager**  
**Town of Canton**

# CANTON CULVERT PACKAGE

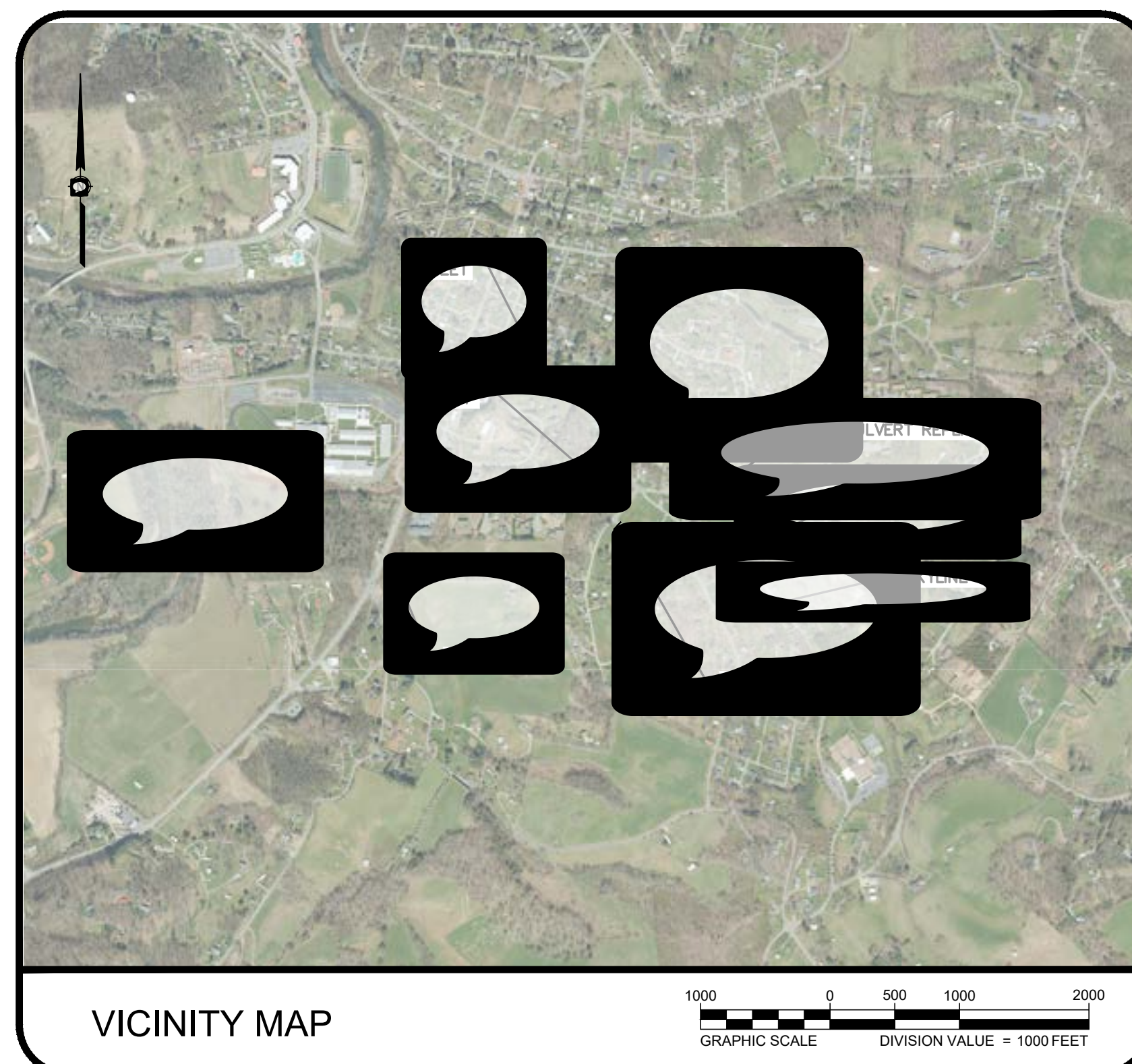
## RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE

# TOWN OF CANTON

## HAYWOOD COUNTY, NORTH CAROLINA

### SCHEDULE OF DRAWINGS

G-001	COVER SHEET
G-002	GENERAL NOTES AND LEGENDS
G-003	GENERAL NOTES AND LEGENDS
G-004	TRAFFIC CONTROL PHASE NO. 1
G-005	TRAFFIC CONTROL PHASE NO. 2
CE-100	RHODA STREET - EXISTING CONDITIONS AND DEMOLITION
CE-101	SKYLINE DRIVE - EXISTING CONDITIONS AND DEMOLITION
CE-102	MEADOWBROOK DRIVE - EXISTING CONDITIONS AND DEMOLITION
C-100	RHODA STREET - SITE PLAN
C-101	RHODA STREET - PROFILES
C-102	SKYLINE DRIVE - PLAN AND PROFILE
C-103	SKYLINE DRIVE - WALL PLAN AND PROFILE
C-104	MEADOWBROOK DRIVE - PLAN AND PROFILE
C-500	GENERAL DETAILS
C-501	GENERAL DETAILS
C-502	GENERAL DETAILS
C-503	GENERAL DETAILS
C-504	GENERAL DETAILS
C-505	GENERAL DETAILS
C-506	STANDARD TRAFFIC CONTROL DETAILS
S-100 THRU S-103	RHODA STREET - STRUCTURAL SHEETS



BID SET  
-FOR REVIEW PURPOSED ONLY-  
DO NOT USE FOR  
CONSTRUCTION



APRIL 2024



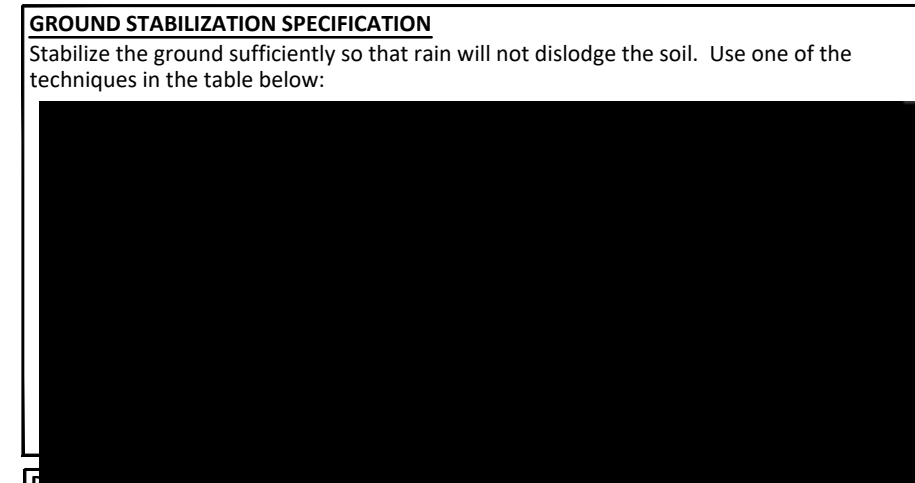
**GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT**  
 Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

**SECTION E: GROUND STABILIZATION**

Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

**GROUND STABILIZATION SPECIFICATION**  
 Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:



- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

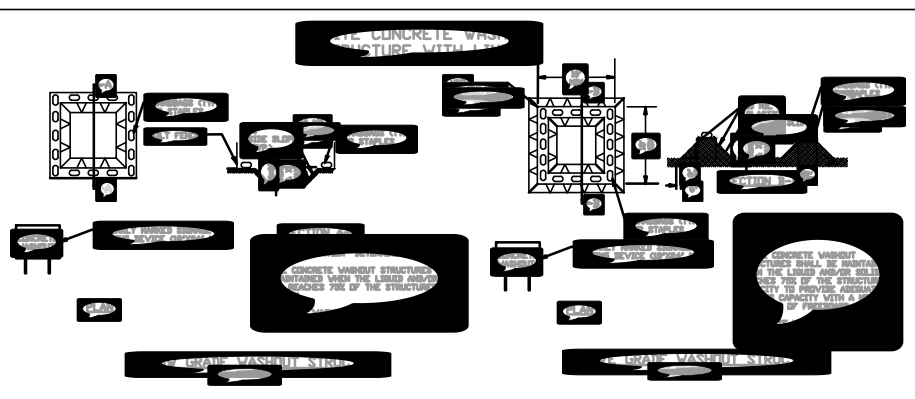
- EQUIPMENT AND VEHICLE MAINTENANCE**
- Maintain vehicles and equipment to prevent discharge of fluids.
  - Provide drip pans under any stored equipment.
  - Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
  - Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
  - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
  - Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

- LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**
- Never bury or burn waste. Place litter and debris in approved waste containers.
  - Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
  - Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
  - Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
  - Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
  - Anchor all lightweight items in waste containers during times of high winds.
  - Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
  - Dispose waste off-site at an approved disposal facility.
  - On business days, clean up and dispose of waste in designated waste containers.

- PAINT AND OTHER LIQUID WASTE**
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
  - Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
  - Contain liquid wastes in a controlled area.
  - Containment must be labeled, sized and placed appropriately for the needs of site.
  - Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

- PORTABLE TOILETS**
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
  - Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
  - Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

- EARTHEN STOCKPILE MANAGEMENT**
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
  - Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
  - Provide stable stone access point when feasible.
  - Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



- CONCRETE WASHOUTS**
- Do not discharge concrete or cement slurry from the site.
  - Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
  - Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
  - Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
  - Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
  - Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
  - Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
  - Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
  - Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
  - At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

- HERBICIDES, PESTICIDES AND RODENTICIDES**
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
  - Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
  - Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
  - Do not stockpile these materials onsite.

- HAZARDOUS AND TOXIC WASTE**
- Create designated hazardous waste collection areas on-site.
  - Place hazardous waste containers under cover or in secondary containment.
  - Do not store hazardous chemicals, drums or bagged materials directly on the ground.

**PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING**

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

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

**PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION B: RECORDKEEPING**

**1. E&SC Plan Documentation**  
 The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

**2. Additional Documentation**  
 In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This general permit as well as the certificate of coverage, after it is received.
- Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION C: REPORTING**

**1. Occurrences that must be reported**  
 Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
  - They are 25 gallons or more,
  - They are less than 25 gallons but cannot be cleaned up within 24 hours,
  - They cause sheen on surface waters (regardless of volume), or
  - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

**2. Reporting Timeframes and Other Requirements**  
 After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

**NCG01 GROUND STABILIZATION AND MATERIALS HANDLING**

**EFFECTIVE: 04/01/19**

**NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**EFFECTIVE: 04/01/19**

BID SET  
 -FOR REVIEW PURPOSED ONLY-  
 DO NOT USE FOR  
 CONSTRUCTION

55 Broad Street  
 Asheville, NC 28801  
 828.252.0575  
 NC Firm License # C-0459  
 mcgillassociates.com

NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
 RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
 HAYWOOD COUNTY, NORTH CAROLINA

**NOT TO SCALE**

OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

**GENERAL NOTES**

DATE APRIL 2024	PROJECT # VARIES	FUNDING # N/A
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SHEET  
**G-002**

GENERAL CONSTRUCTION NOTES - RHODA

- 1. SURVEY IS REFERENCED TO HORIZ: NAD83, STATE PLANE (FEET) NORTH CAROLINA (FIS 3200) VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BY MCGILL ASSOCIATES, MAY 27, 2022.
2. CONTRACTOR SHALL VERIFY ALL ELEVATIONS BEFORE INSTALLATION OF FACILITIES
3. NOT ALL UTILITIES ARE SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING UTILITIES AND UTILITY INFORMATION PRESENTED ON THESE DRAWINGS...

GENERAL SANITARY SEWER CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION OUTSIDE RIGHTS-OF-WAY SHALL TAKE PLACE WITHIN THE PERMANENT AND TEMPORARY ACCESS EASEMENTS SHOWN.
2. CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN THE ORIGINAL SITE, OR AS NOTED.
3. LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR...

GENERAL EROSION CONTROL NOTES

- 1. ALL SOIL EROSION CONTROL MEASURES REQUIRED BY THE GRADING PLAN SHALL BE PERFORMED PRIOR TO GRADING, CLEARING, OR GRUBBING. ALL EROSION CONTROL DEVICES SUCH AS SILT FENCES, ETC. SHALL BE MAINTAINED IN WORKABLE CONDITION FOR THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT...
2. DISPOSABLE MATERIAL.
2.1. CLEARING AND GRUBBING WASTES SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE...
2.2. THE CONTRACTOR SHALL REMOVE SOLID WASTE FROM THE SITE AND PROPERLY DISPOSE OF IT AT HIS EXPENSE.

EXISTING CONDITIONS LEGEND

Legend for existing conditions including symbols for existing structures, utilities, and terrain. Includes a grid of symbols and their corresponding descriptions.

GENERAL NOTES - SKYLINE/ MEADOWBROOK

Redacted general notes for Skyline/Meadowbrook project, containing contractor responsibilities and site preparation instructions.

NORTH CAROLINA LAND QUALITY SECTION EROSION CONTROL NOTES

Redacted North Carolina Land Quality Section Erosion Control Notes, detailing specific erosion control requirements.

NATIVE PLANT SEEDING MIX FOR WETLAND STREAM OR RIVERBANK STABILIZATION

Redacted native plant seeding mix specifications, listing various plant species and their proportions for stream stabilization.

BID SET -FOR REVIEW PURPOSE ONLY- DO NOT USE FOR CONSTRUCTION

McGill logo and contact information: 55 Broad Street, Asheville, NC 28801, 828.252.0575, NC Firm License # C-0459, mcgillassociates.com

Professional Engineer seal for Michael A. Hanson, License No. 03342, State of North Carolina, dated 4/5/2024.

Table with columns: NO., DATE, BY, DESCRIPTION. Includes a drawing revision history table.

CANTON CULVERT PACKAGE
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE
TOWN OF CANTON
HAYWOOD COUNTY, NORTH CAROLINA

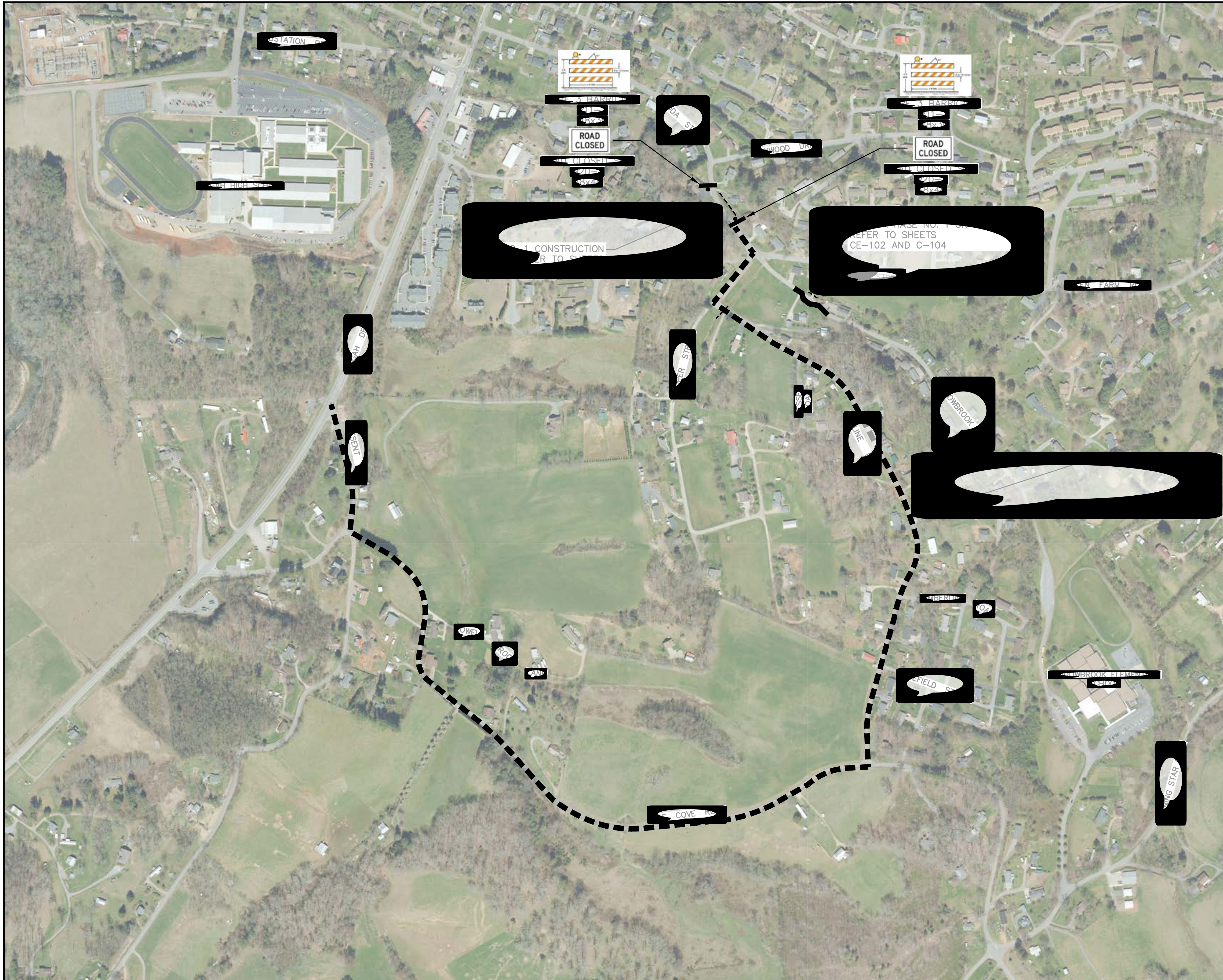
NOT TO SCALE
OFFICE MANAGER: M. CATHEY
DESIGNER: K. BEESLEY
PROJECT MANAGER: M. HANSON
REVIEWER: M. HANSON

GENERAL NOTES
DATE: APRIL 2024
PROJECT #: VARIES
FUNDING #: N/A

SHEET G-003

P:\2022\22-03002-CANTON\NC-RHODA STREET FLOOD DAMAGE REPAIR\DRAWINGS\SHEETS\CANTON CULVERT REPLACEMENTS\CULVERT REPLACEMENTS - GENERAL SHEETS.DWG PLOT DATE: 4/15/2024 8:59 AM RUSSELL.COX

P:\2023\22\_03002-CANTON\NC-RHODA STREET FLOOD DAMAGE REPAIR\DRAWINGS\SHEETS\CULVERT REPLACEMENTS - TRAFFIC CONTROL PLAN.DWG PLOT DATE 4/5/2024 9:29 AM RUSSELL.COX



**TRAFFIC CONTROL NOTES PHASE NO. 1**

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com

NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

NOT TO SCALE

OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

RHODA STREET  
TRAFFIC CONTROL PLAN  
PHASE 1

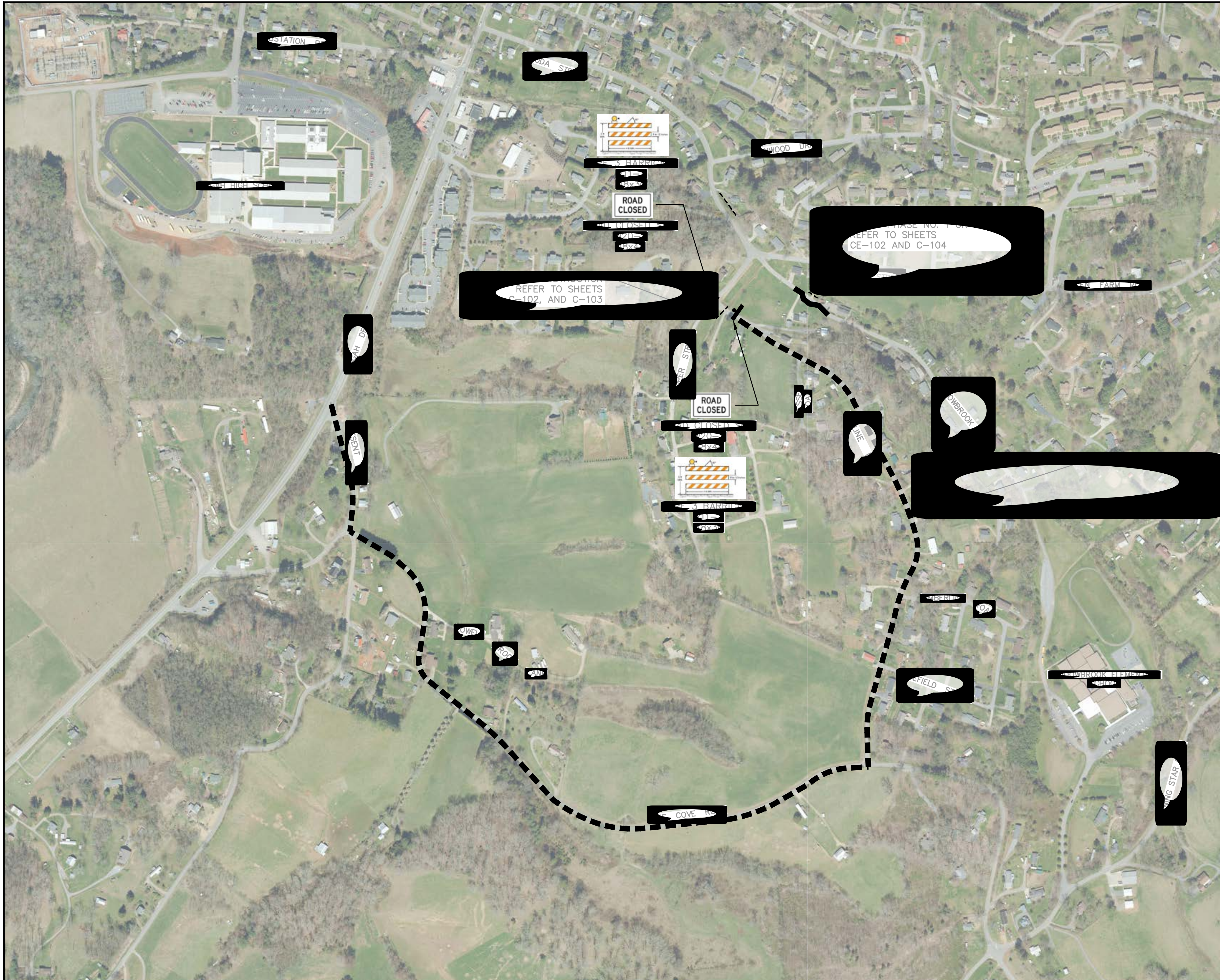
DATE MARCH 2024	PROJECT # VARIES	FUNDING # N/A
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SHEET  
**G-004**



TRAFFIC CONTROL NOTES PHASE NO. 2

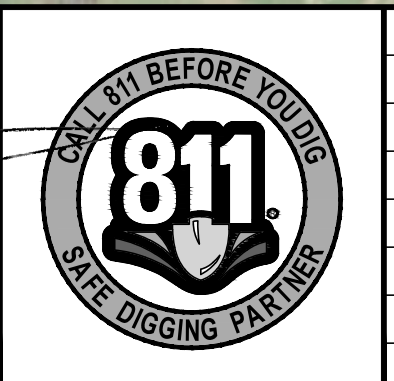
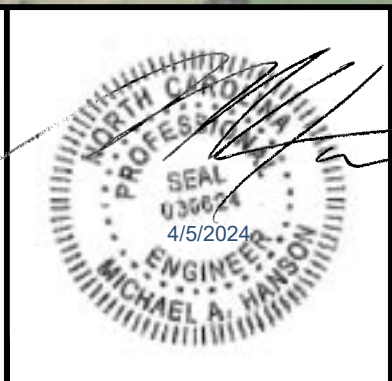
MEADOWBROOK DRIVE MAY BE CLOSED DURING EITHER PHASE NO. 1 OR PHASE NO. 2. DETAILS OF THE STATE OF NORTH CAROLINA TRANSPORTATION DIVISION. SEE PHASE NO. 1 CONSTRUCTION PLAN.



BID SET  
-FOR REVIEW PURPOSED ONLY-  
DO NOT USE FOR  
CONSTRUCTION

P:\2023\22\_03002-CANTON\NC-RHODA STREET FLOOD DAMAGE REPAIR DRAWINGS\SHEETS\CULVERT REPLACEMENTS - TRAFFIC CONTROL PLAN.DWG PLOT DATE 4/5/2024 9:28 AM RUSSELL.COX

55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com



NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

NOT TO SCALE

OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

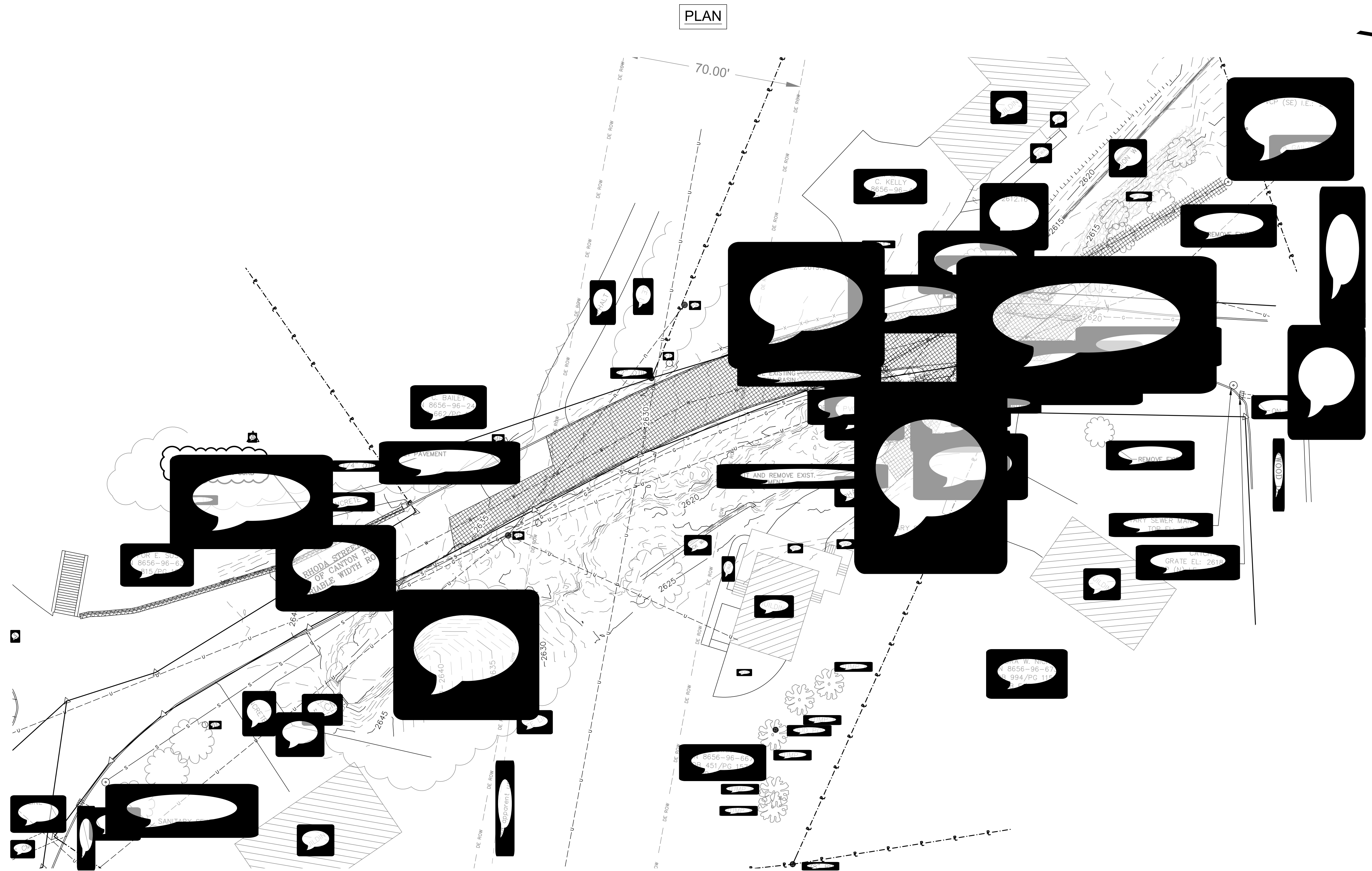
SKYLINE DRIVE  
TRAFFIC CONTROL PLAN  
PHASE 2

DATE MARCH 2024	PROJECT # VARIES	FUNDING # N/A
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SHEET  
**G-005**

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22.03002 - TOWN OF CANTON - CANTON CULVERT PACKAGE RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE



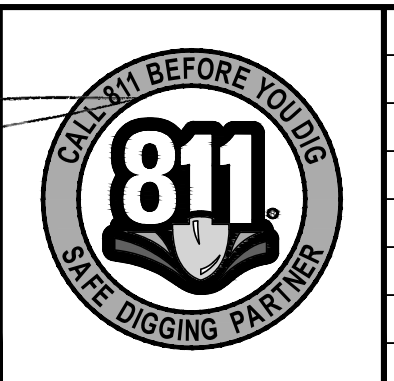
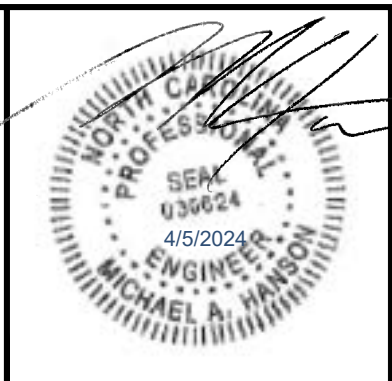
PLAN

70.00'

BID SET  
-FOR REVIEW PURPOSED ONLY-  
DO NOT USE FOR  
CONSTRUCTION

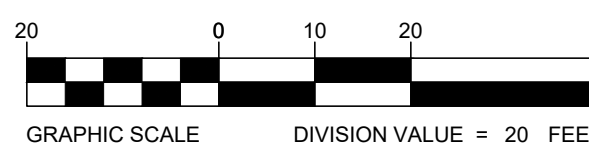


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Asheville, NC 28801  
828.252.0575  
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mcgillassociates.com



NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

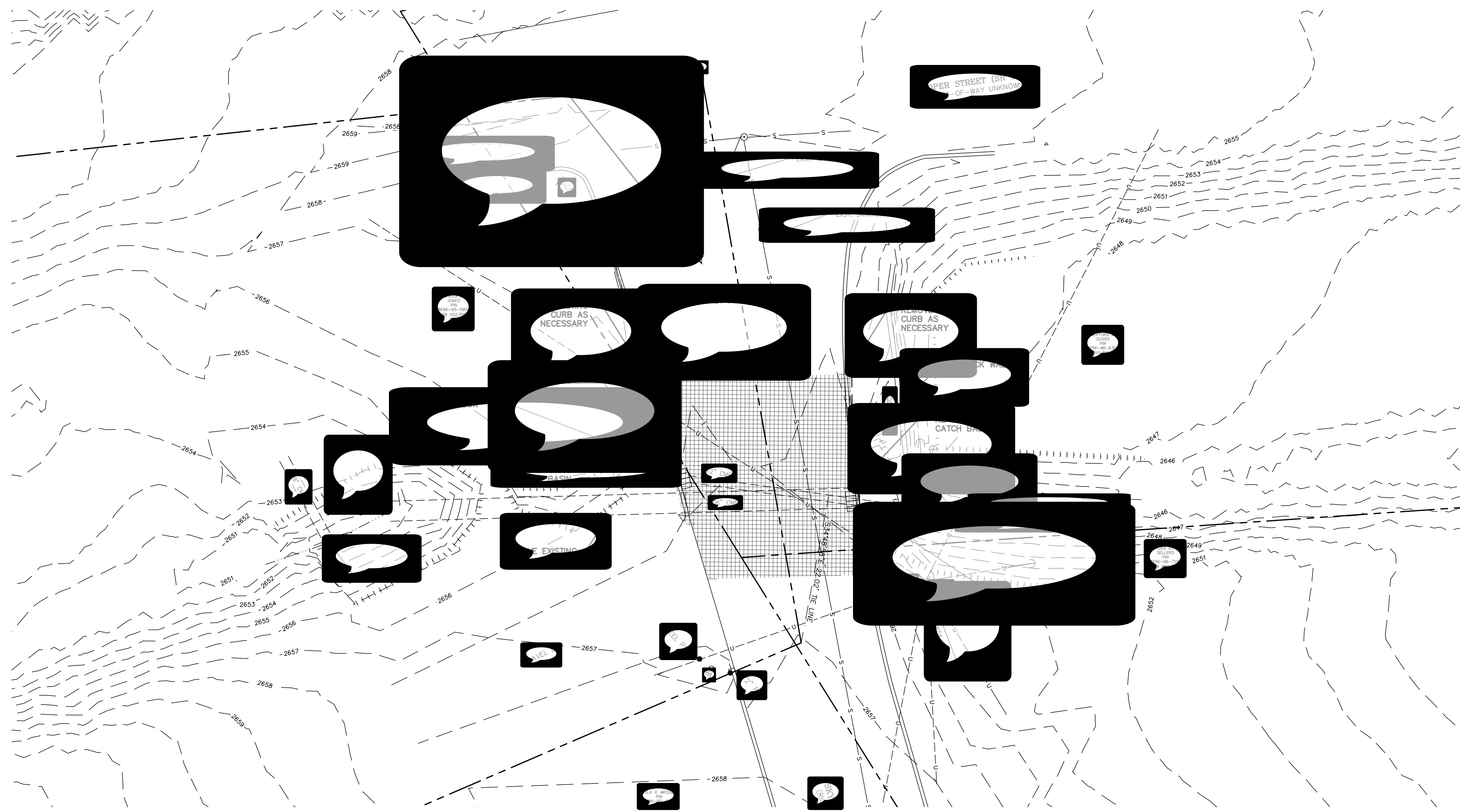
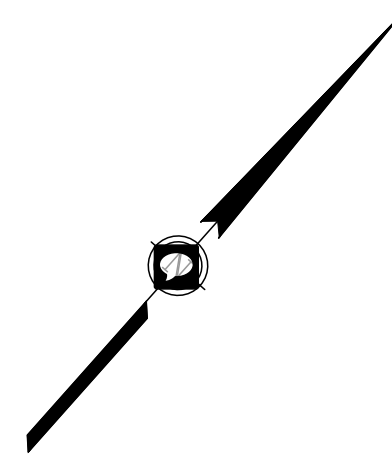


OFFICE MANAGER M. CATHEY	DESIGNER C. HEATHCOAT
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

RHODA STREET - EXISTING CONDITIONS AND DEMOLITION		
DATE MARCH 2024	PROJECT # 22.03002	FUNDING # N/A

SHEET  
**CE-100**

PLAN

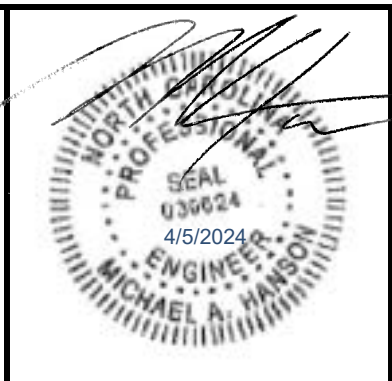


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DO NOT USE FOR  
CONSTRUCTION

P:\2022\22.03004-CANTON\SKYLINE DRIVE CULVERT\HIDRAWINGS\SHETS\C-10 PLAN AND PROFILE.DWG PLOT DATE 4/5/2024 8:10 AM RUSSELL.COX

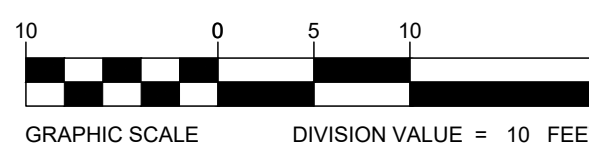


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828.252.0575  
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NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA



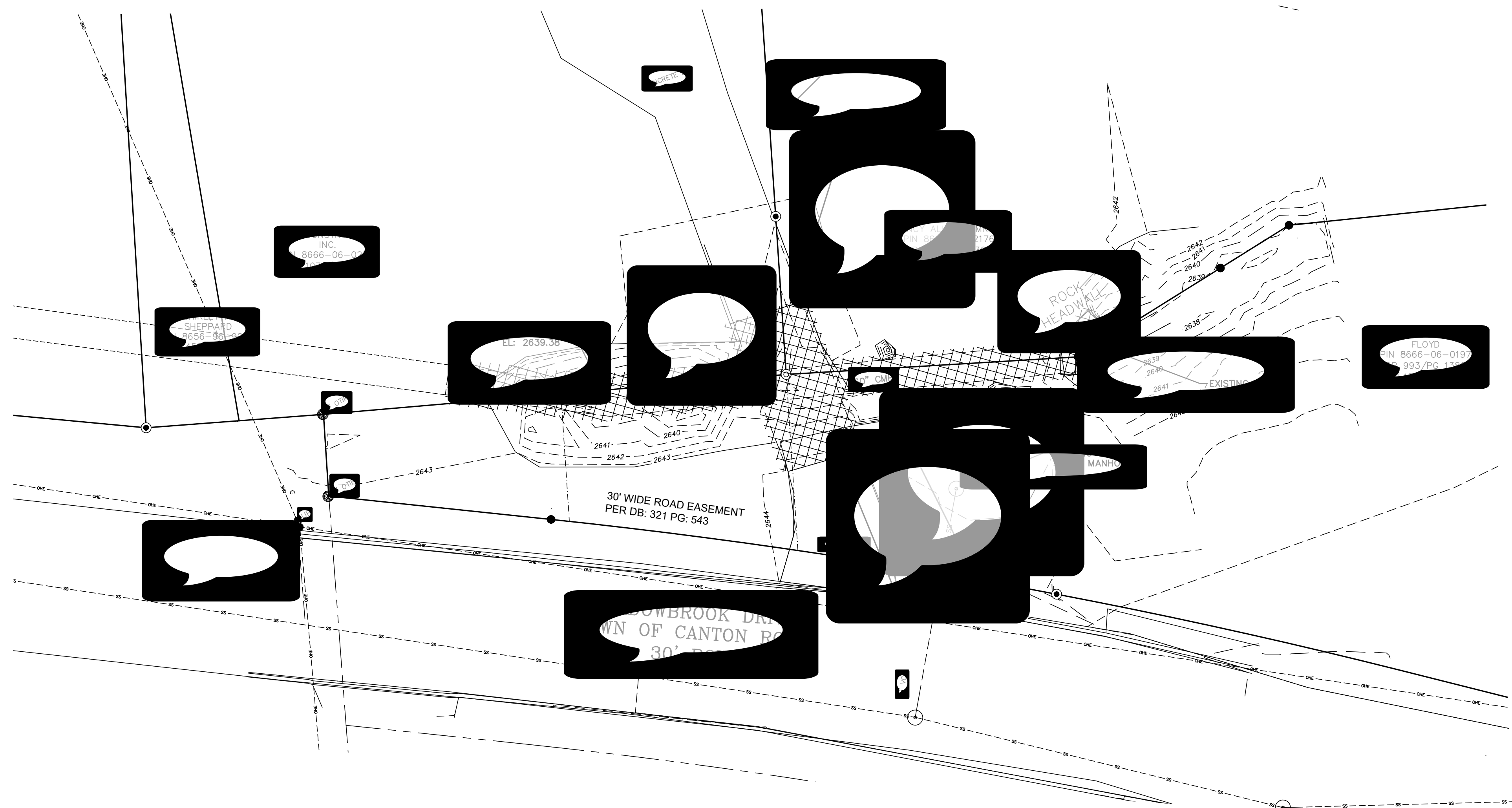
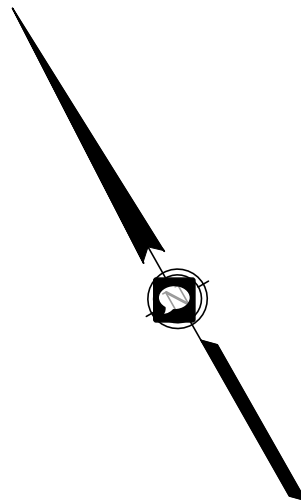
OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

SKYLINE DRIVE - EXISTING CONDITIONS AND DEMOLITION		
DATE MARCH 2024	PROJECT # 22.03004	FUNDING # N/A

SHEET  
**CE-101**

22.03004 - TOWN OF CANTON - SKYLINE DRIVE - EXISTING CONDITIONS AND DEMOLITION

PLAN



WAY AND CULVERT HAVE BEEN RESTORED TO ORIGINAL CONDITIONS AND ACCESS RESTORED TO ORIGINAL TEMPORARY EASEMENTS

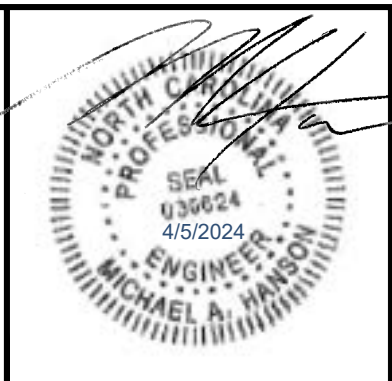
BID SET  
-FOR REVIEW PURPOSED ONLY-  
DO NOT USE FOR  
CONSTRUCTION

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22\_03005 - CITY OF MCGILLINGTON MEADOWBROOK DRIVE - EXISTING CONDITIONS AND DEMOLITION

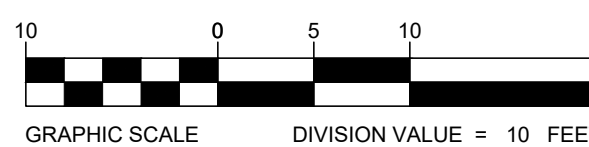


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NO.	DATE	BY	DESCRIPTION

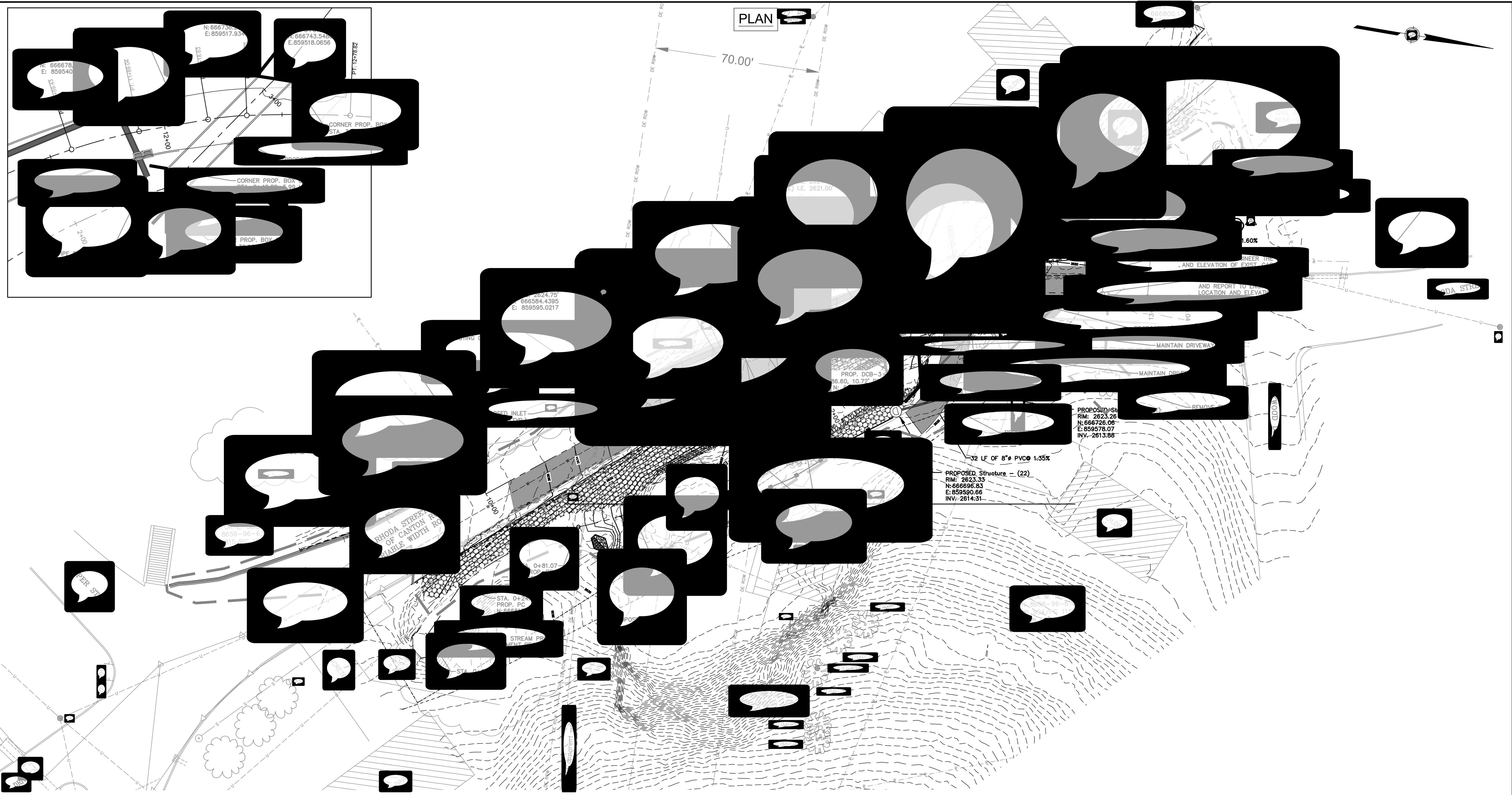
CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

	
OFFICE MANAGER	DESIGNER
M. CATHEY	K. BEESLEY
PROJECT MANAGER	REVIEWER
M. HANSON	M. HANSON

MEADOWBROOK DRIVE - EXISTING CONDITIONS AND DEMOLITION		
DATE	PROJECT #	FUNDING #
MARCH 2024	22.03005	N/A

SHEET  
**CE-102**

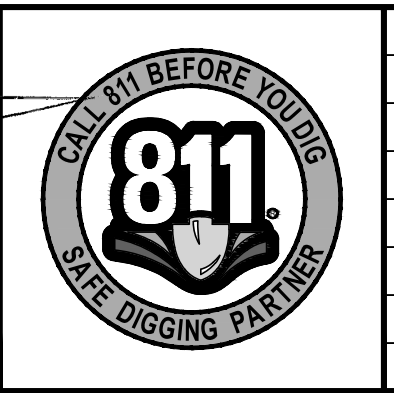
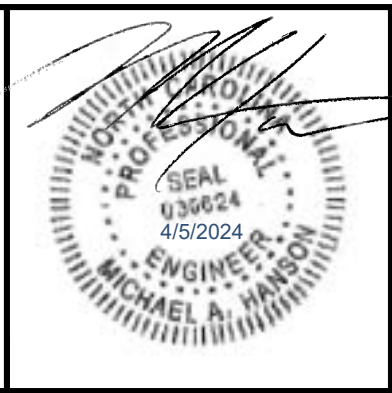
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CONSTRUCTION

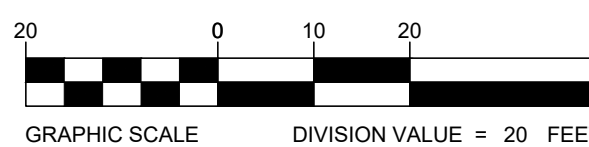


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828.252.0575  
NC Firm License # C-0459  
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NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA



OFFICE MANAGER M. CATHEY	DESIGNER C. HEATHCOAT
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

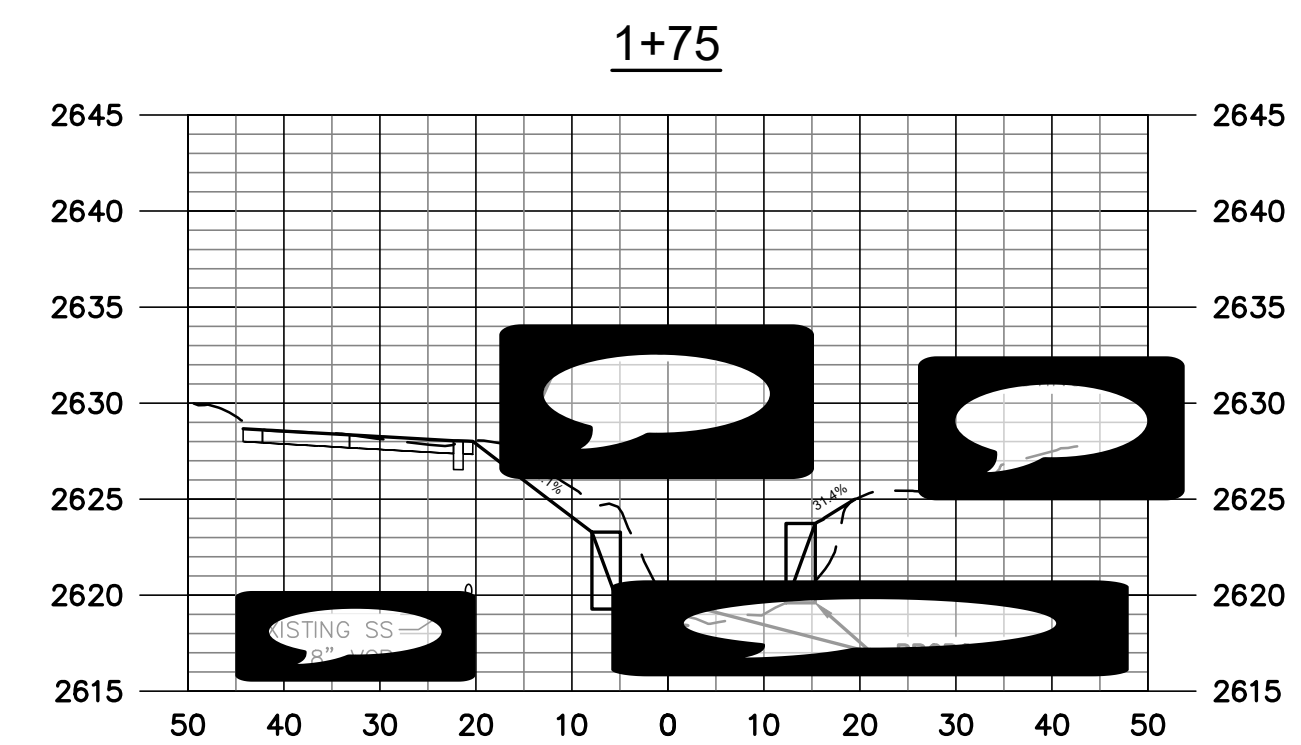
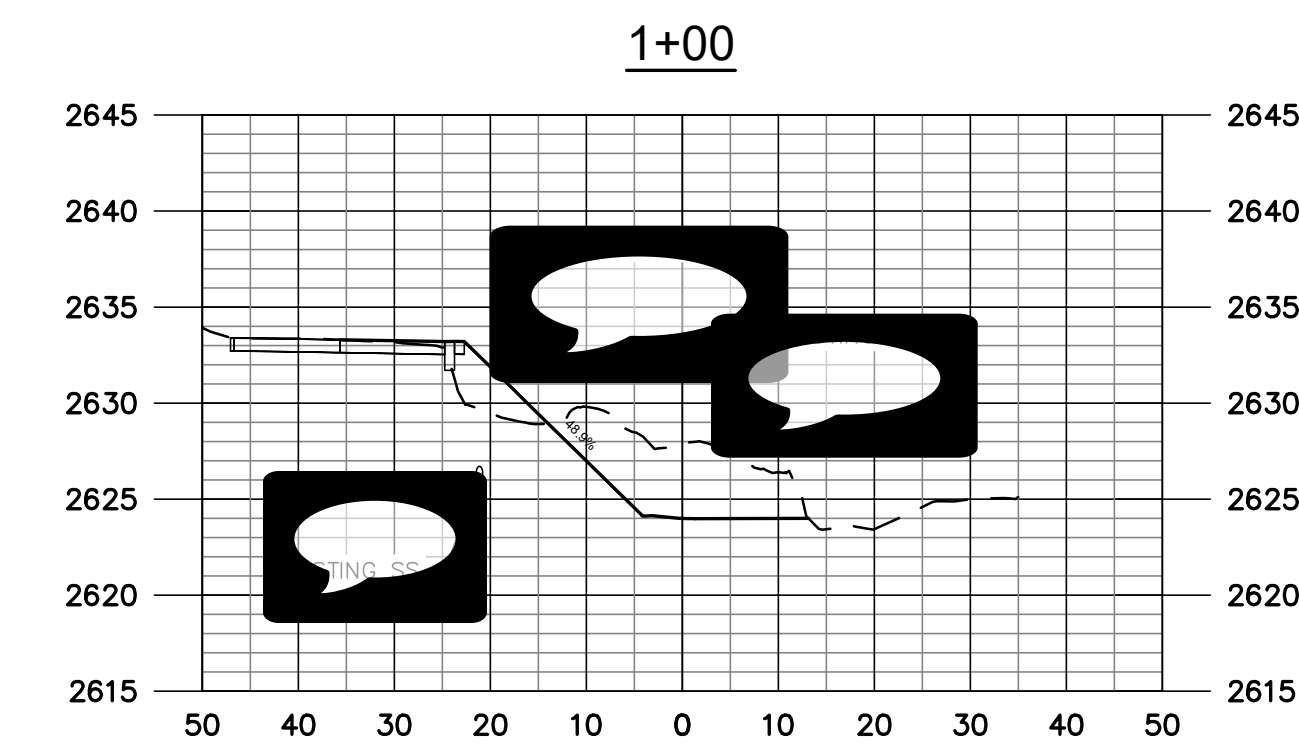
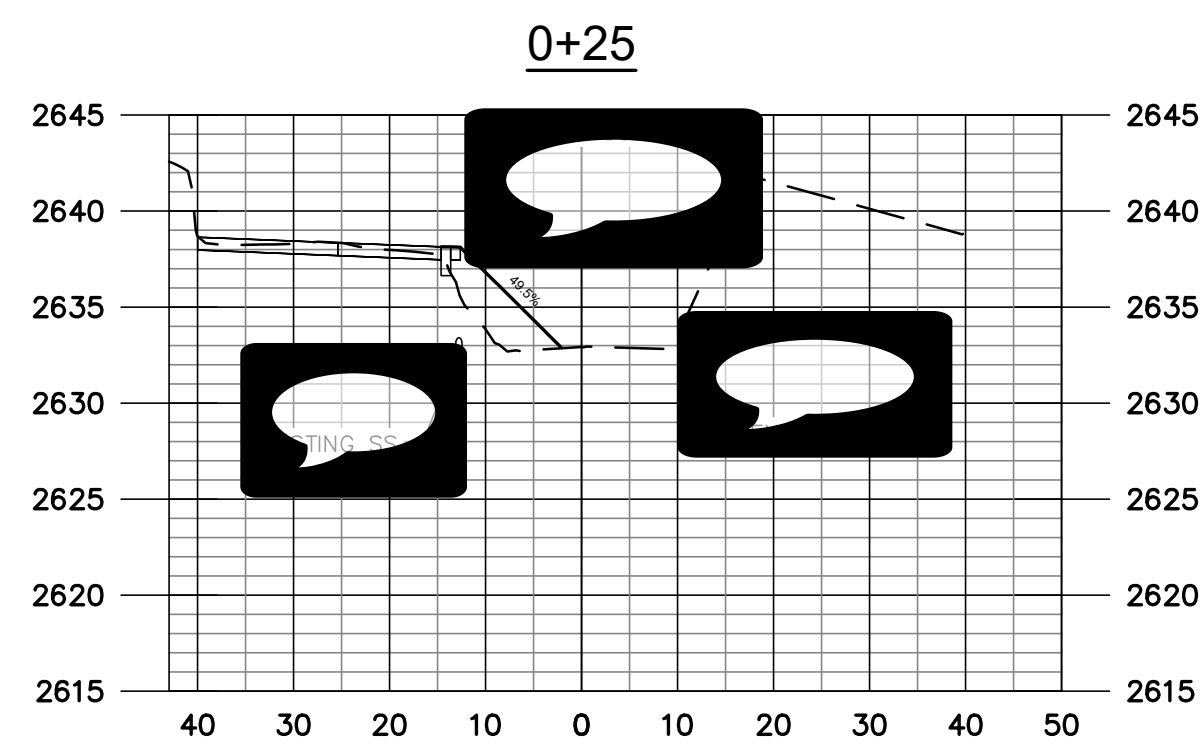
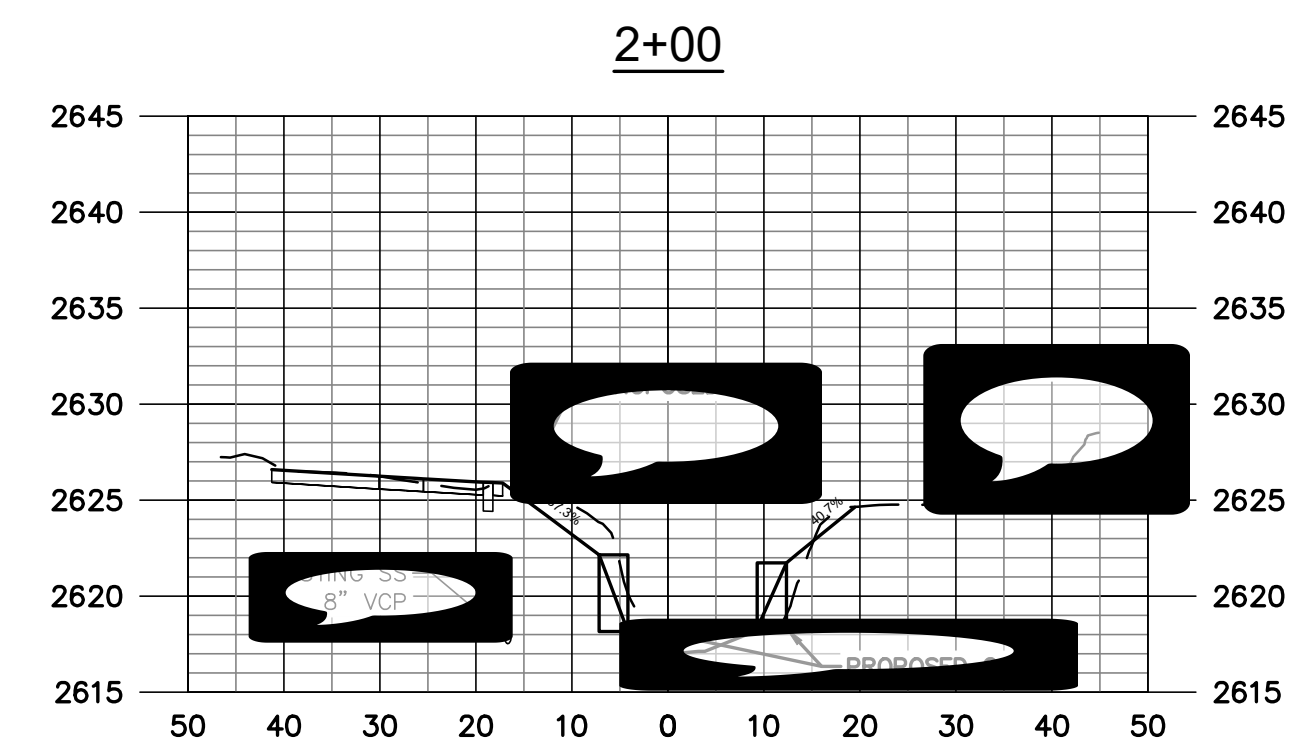
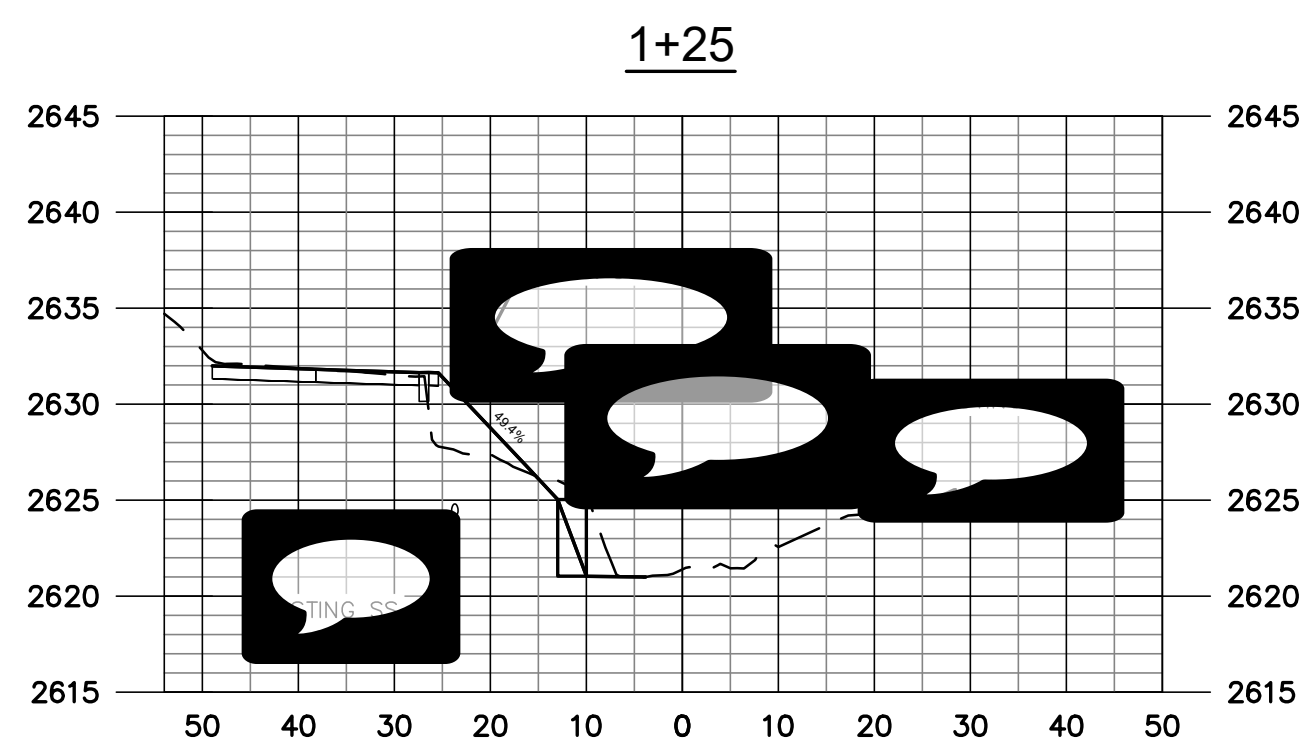
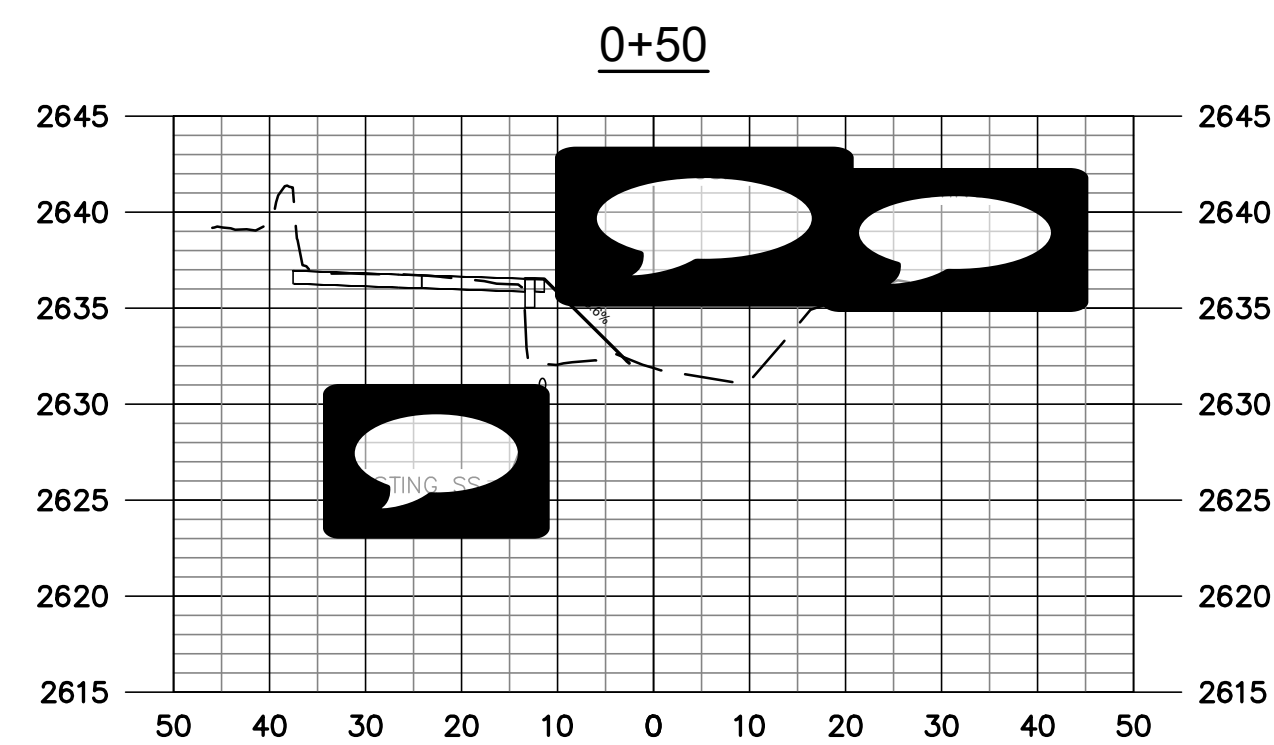
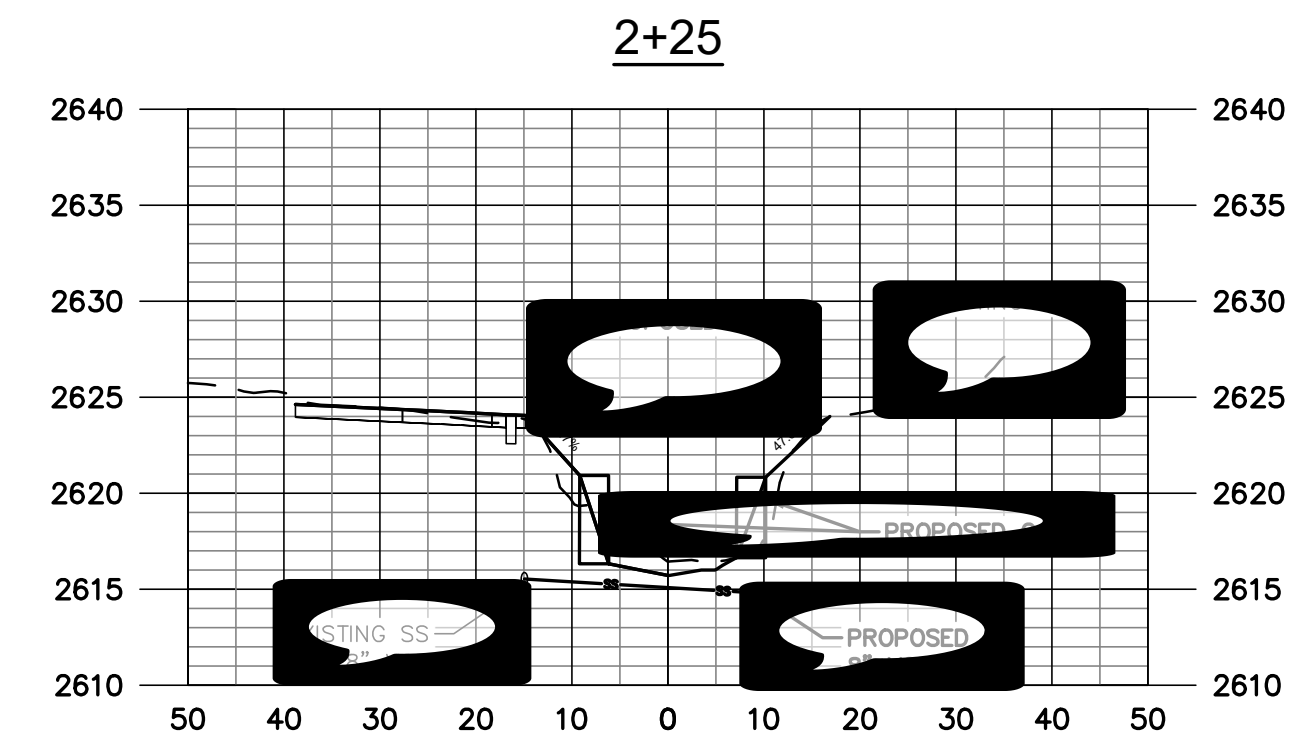
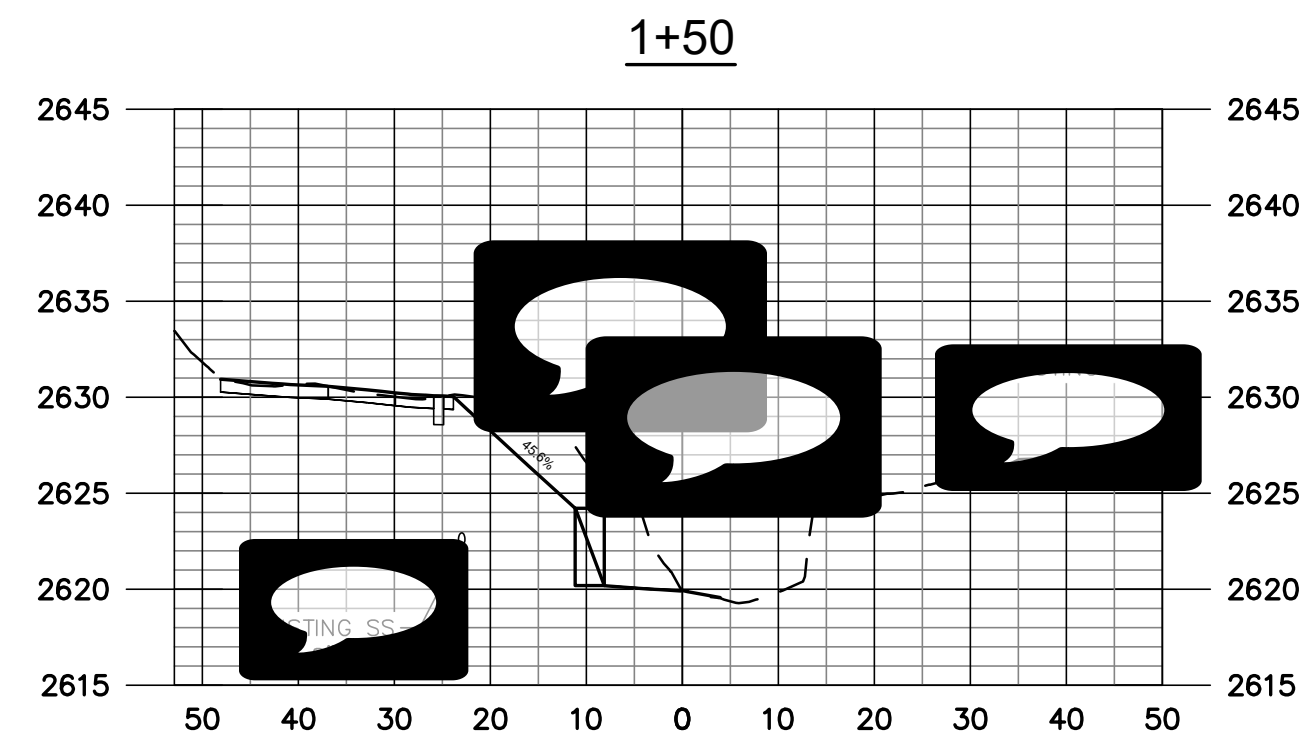
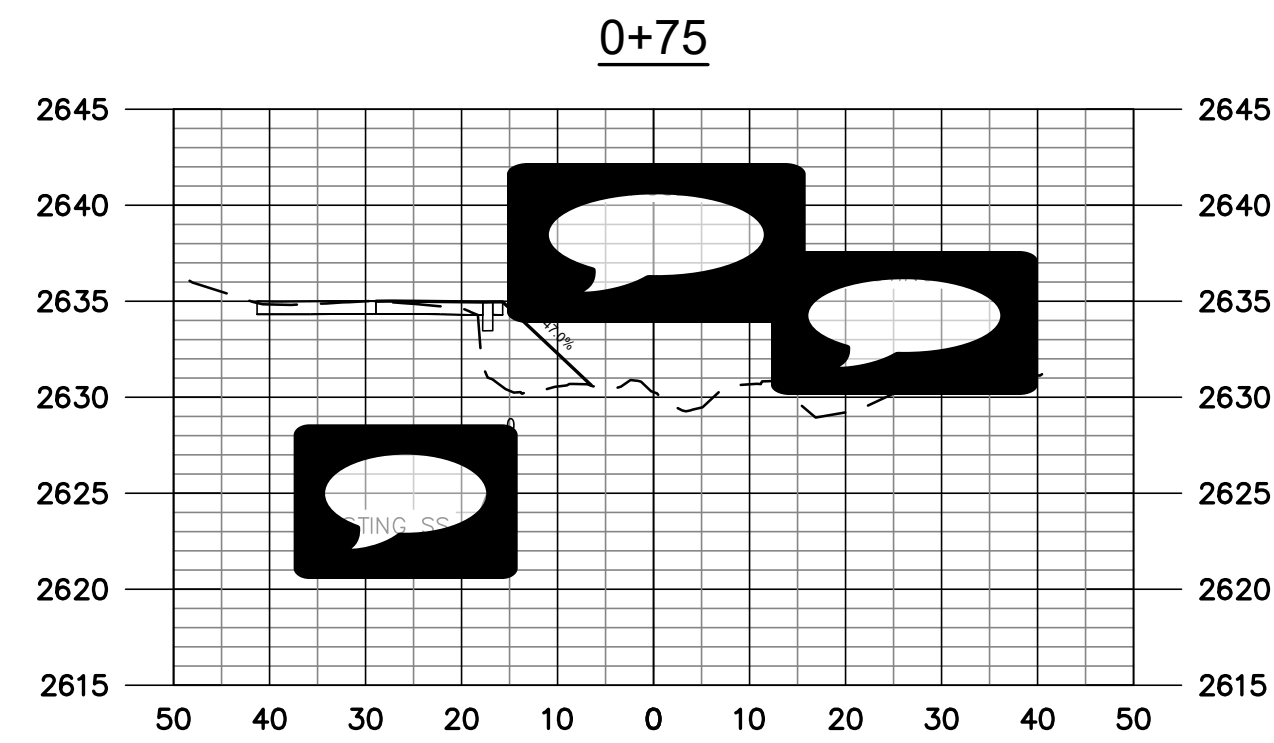
RHODA STREET - SITE PLAN		
DATE MARCH 2024	PROJECT # 22.03002	FUNDING # N/A

SHEET  
**C-100**

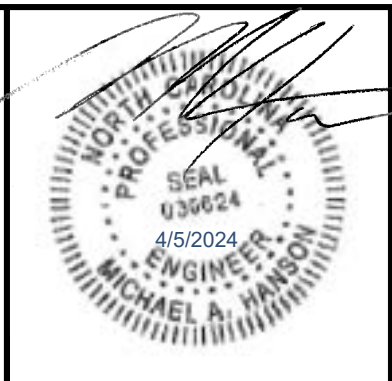
22.03002 - TOWN OF CANTON - CANTON CULVERT PACKAGE RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE

P:\2022\22.03002-CANTON\NC-RHODA STREET FLOOD DAMAGE REPAIR\DRAWINGS\SHEETS\C-20 CROSS SECTIONS.DWG PLOT DATE 4/16/2024 9:08 AM RUSSELL COX

22.03002 - TOWN OF CANTON - CANTON CULVERT PACKAGE RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE



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CONSTRUCTION



NO.	DATE	BY	DESCRIPTION

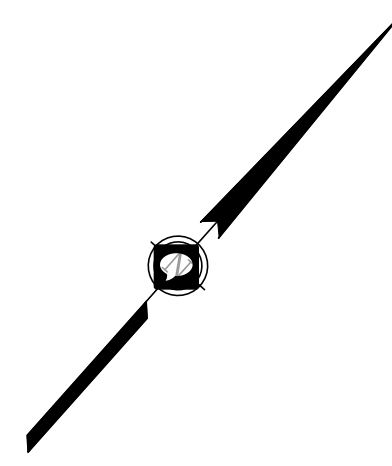
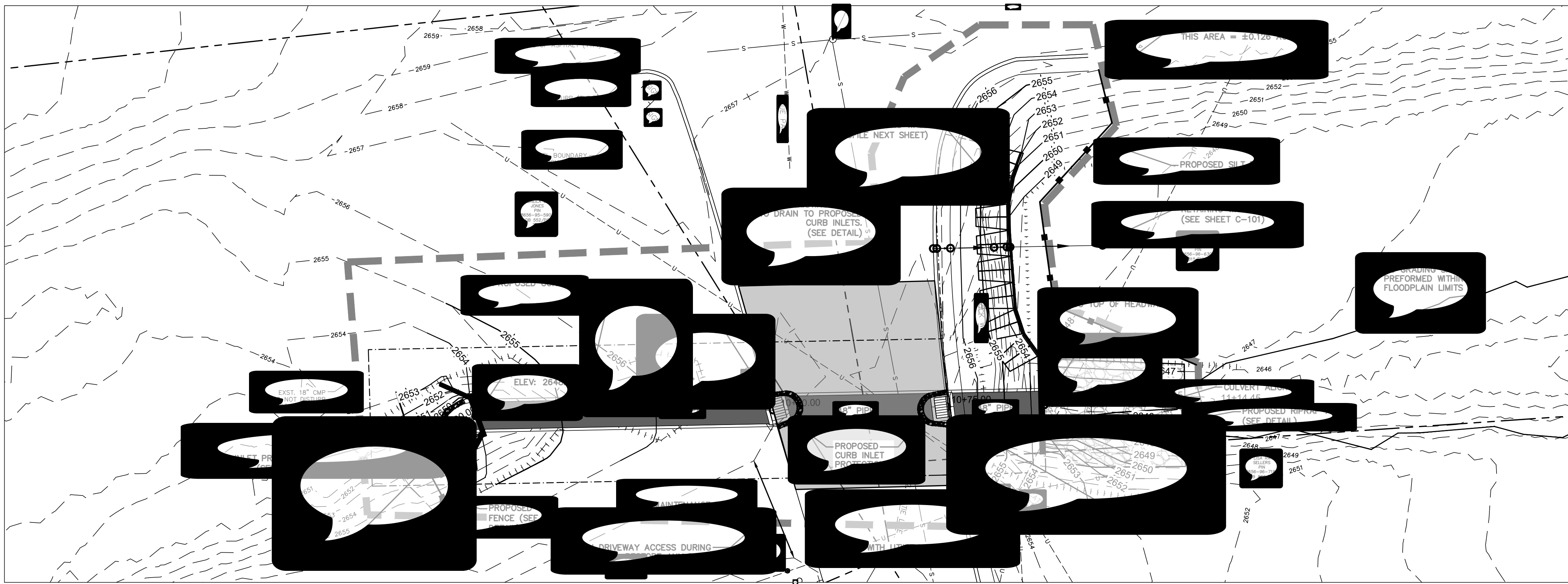
CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

OFFICE MANAGER M. CATHEY	DESIGNER C. HEATHCOAT
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

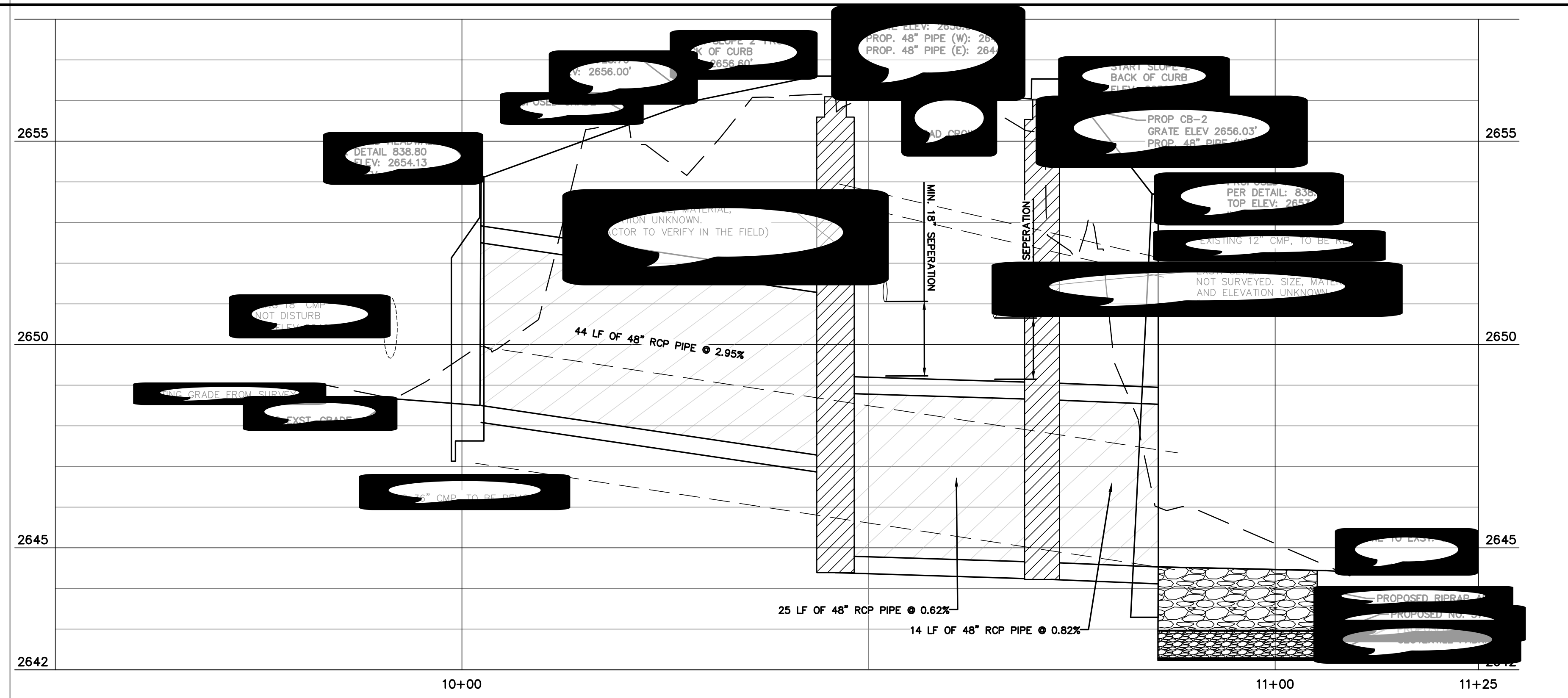
RHODA STREET - PROFILES		
DATE MARCH 2024	PROJECT # 22.03002	FUNDING # N/A

SHEET  
**C-101**

PLAN



**PROFILE**  
SCALE: HORIZ. 1"= 10'  
VERT. 1"= 2'

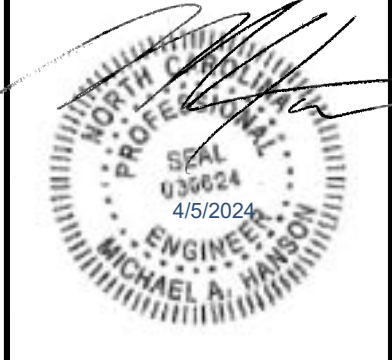


PROPOSED CULVERT PROFILE

BID SET  
-FOR REVIEW PURPOSED ONLY-  
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CONSTRUCTION

P:\2022\22.03004-CANTON-NC-SKYLINE DRIVE CULVERT-HDR\DRAWINGS\SHEETS\C-10 PLAN AND PROFILE.DWG PLOT DATE 4/5/2024 8:10 AM RUSSELL.COX

55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com



NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

SKYLINE DRIVE - PLAN AND PROFILE

DATE MARCH 2024	PROJECT # 22.03004	FUNDING # N/A
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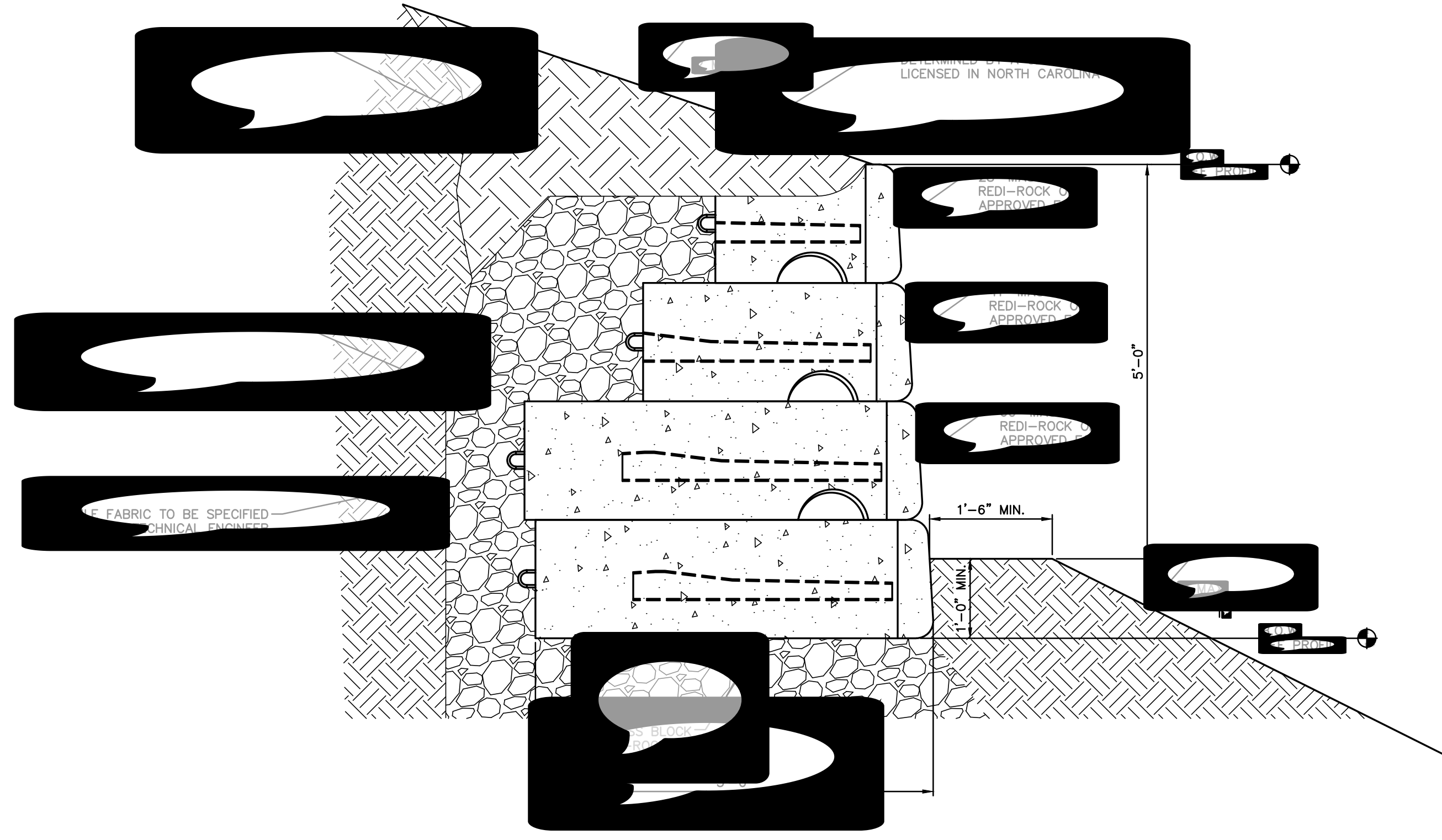
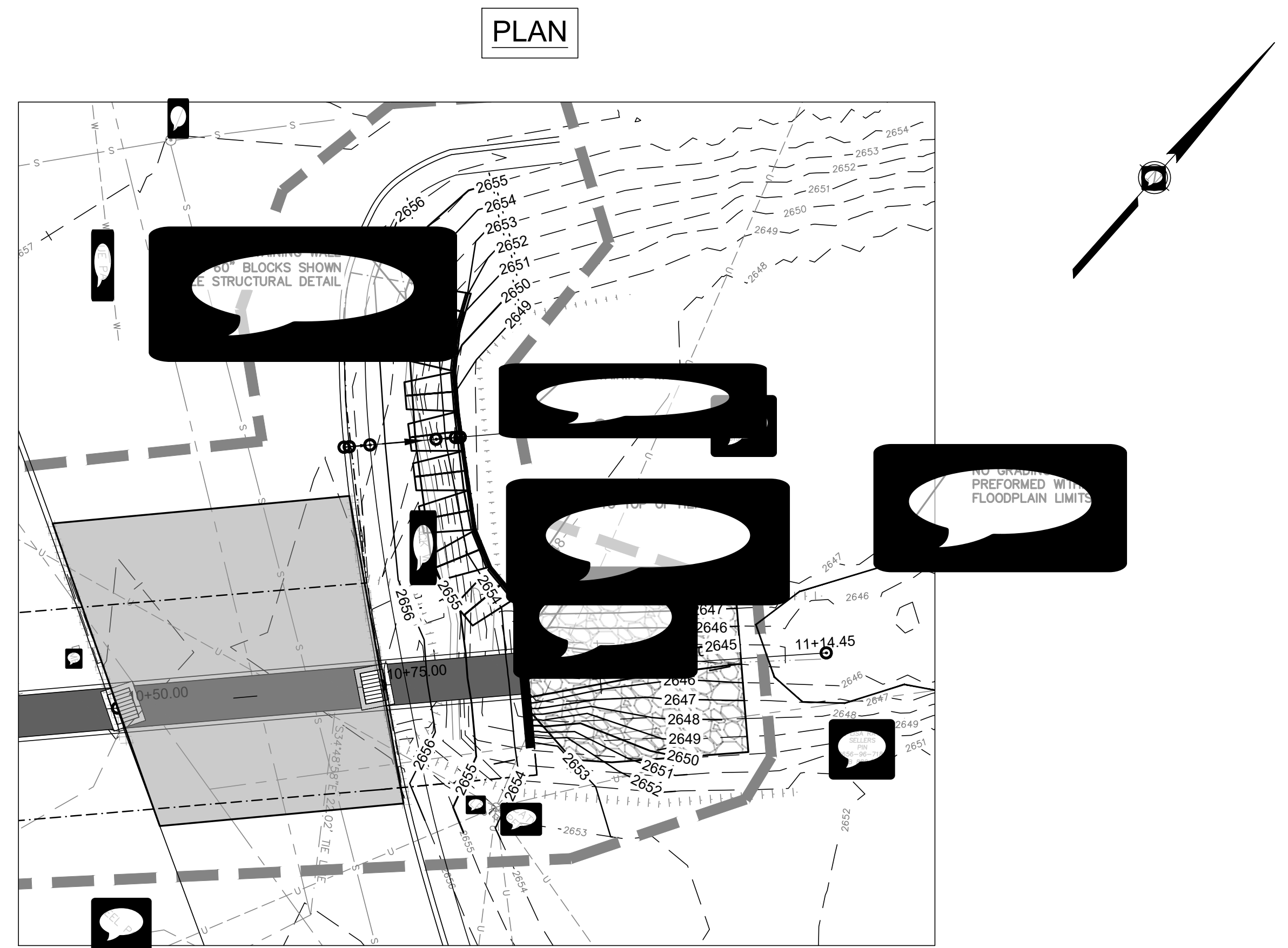
SHEET  
**C-102**

22.03004 - TOWN OF CANTON - RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE CULVERT REPLACEMENT

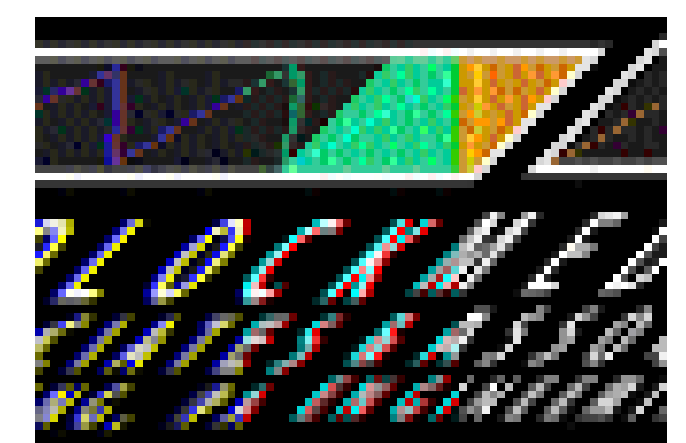
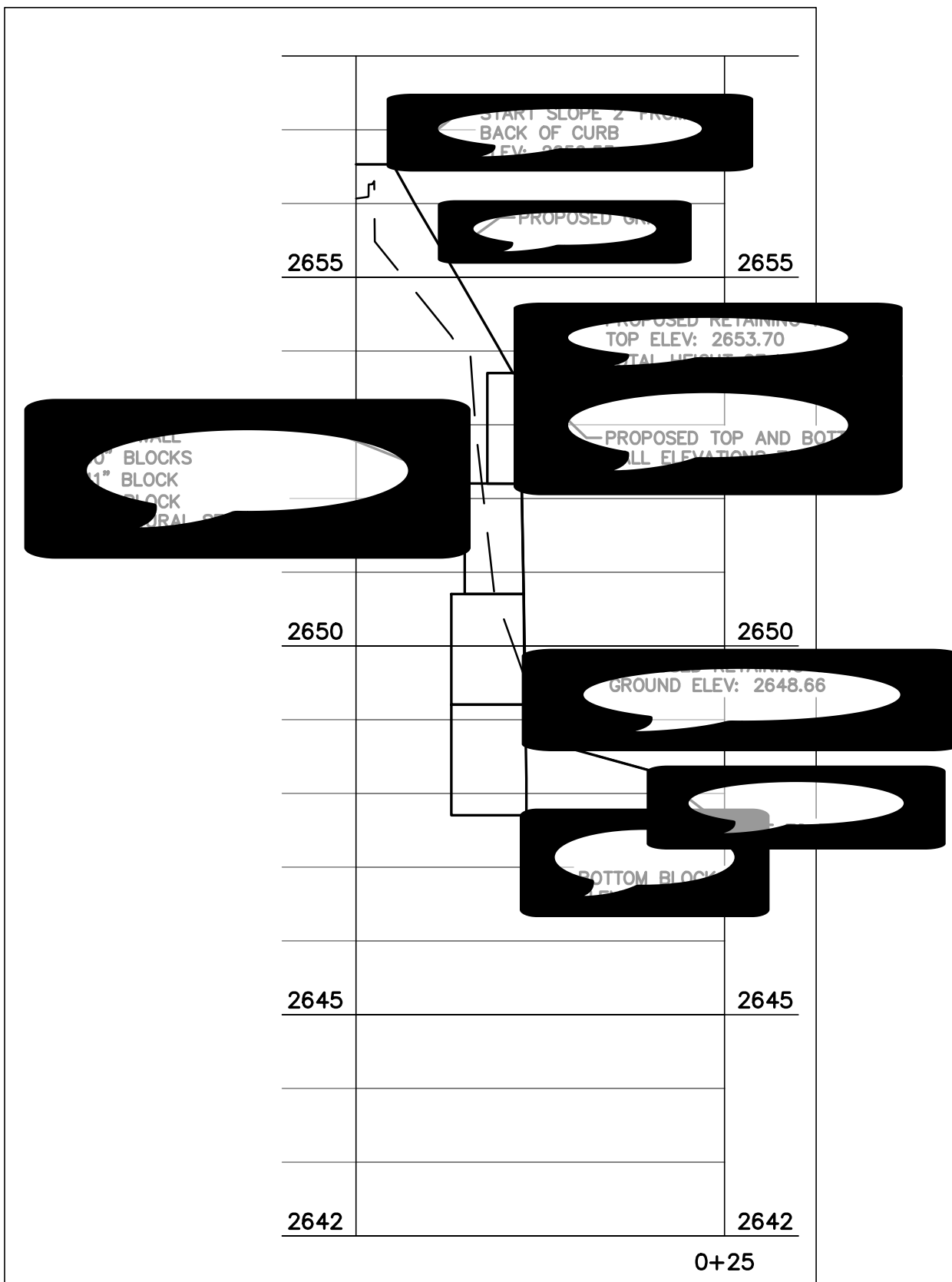
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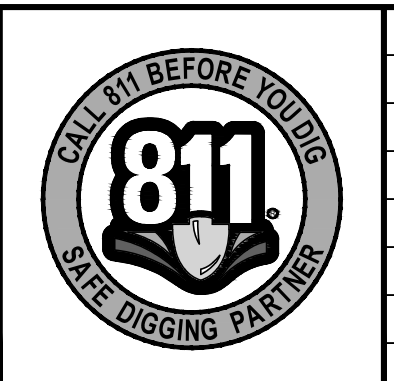


SECTION  
SCALE: HORIZ. 1"= 10'  
VERT. 1"= 2'



P:\2022\22.03004-CANTON-NC-SKYLIN DRIVE CULVERT-HIDRAWINGS\SHEETSC-10 PLAN AND PROFILE.DWG PLOT DATE 3/12/2024 1:43 PM RUSSELL COX

55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com



NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLIN DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

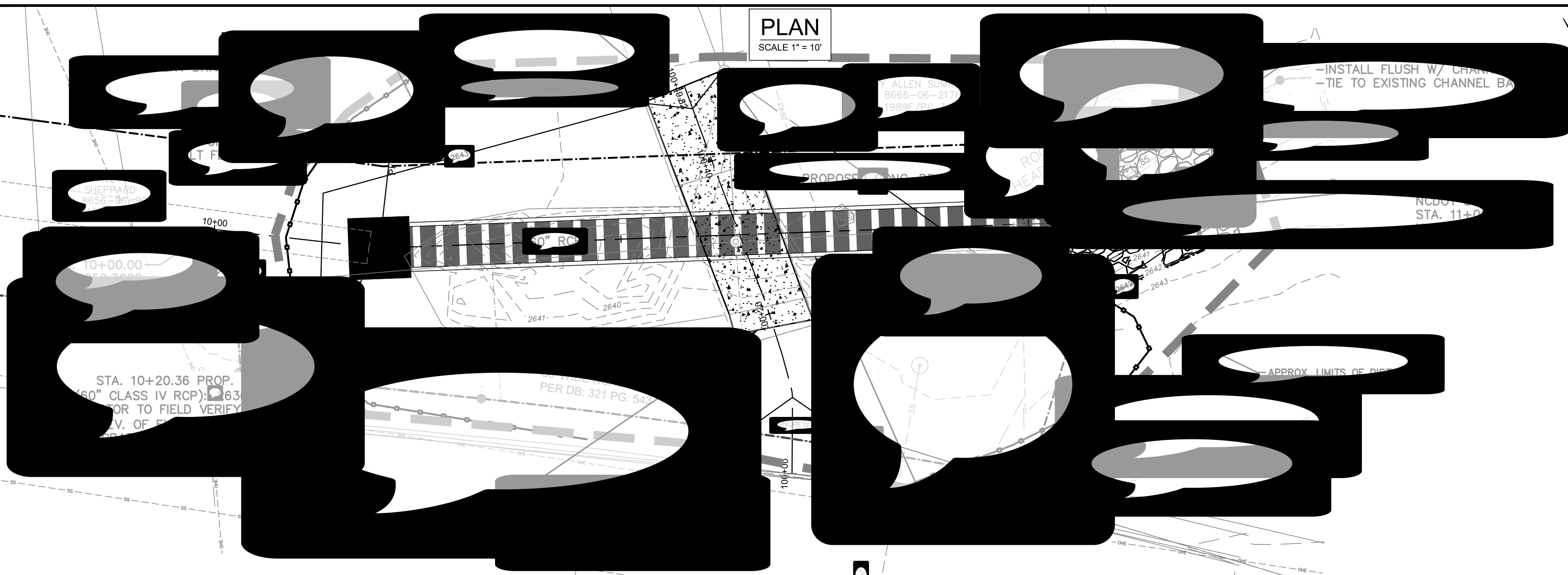
DATE MARCH 2024	PROJECT # 22.03004	FUNDING # N/A
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SHEET  
**C-103**

22.03004 - TOWN OF CANTON - RHODA STREET - SKYLIN DRIVE - MEADOWBROOK DRIVE CULVERT REPLACEMENT



PLAN  
SCALE 1" = 10'

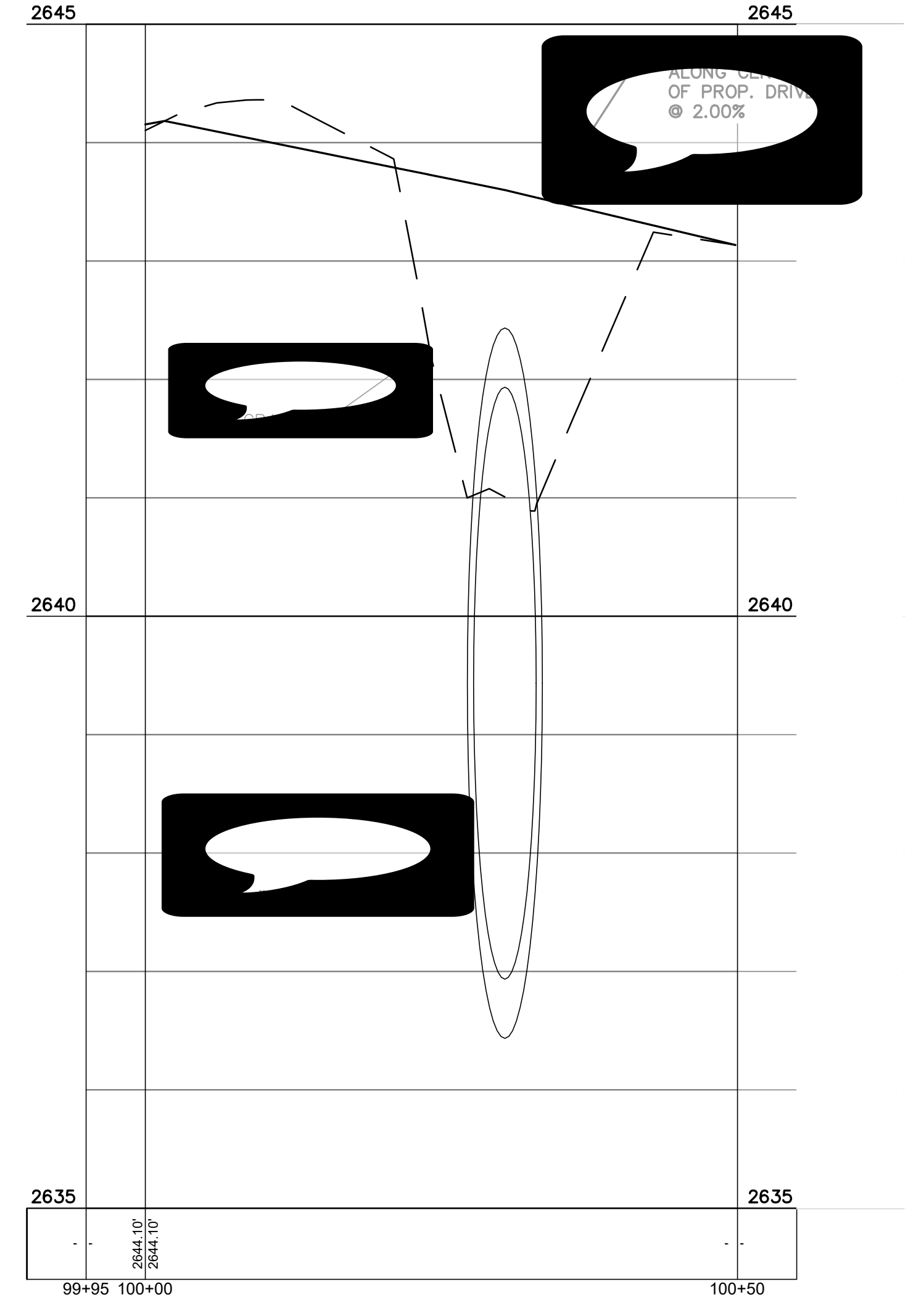
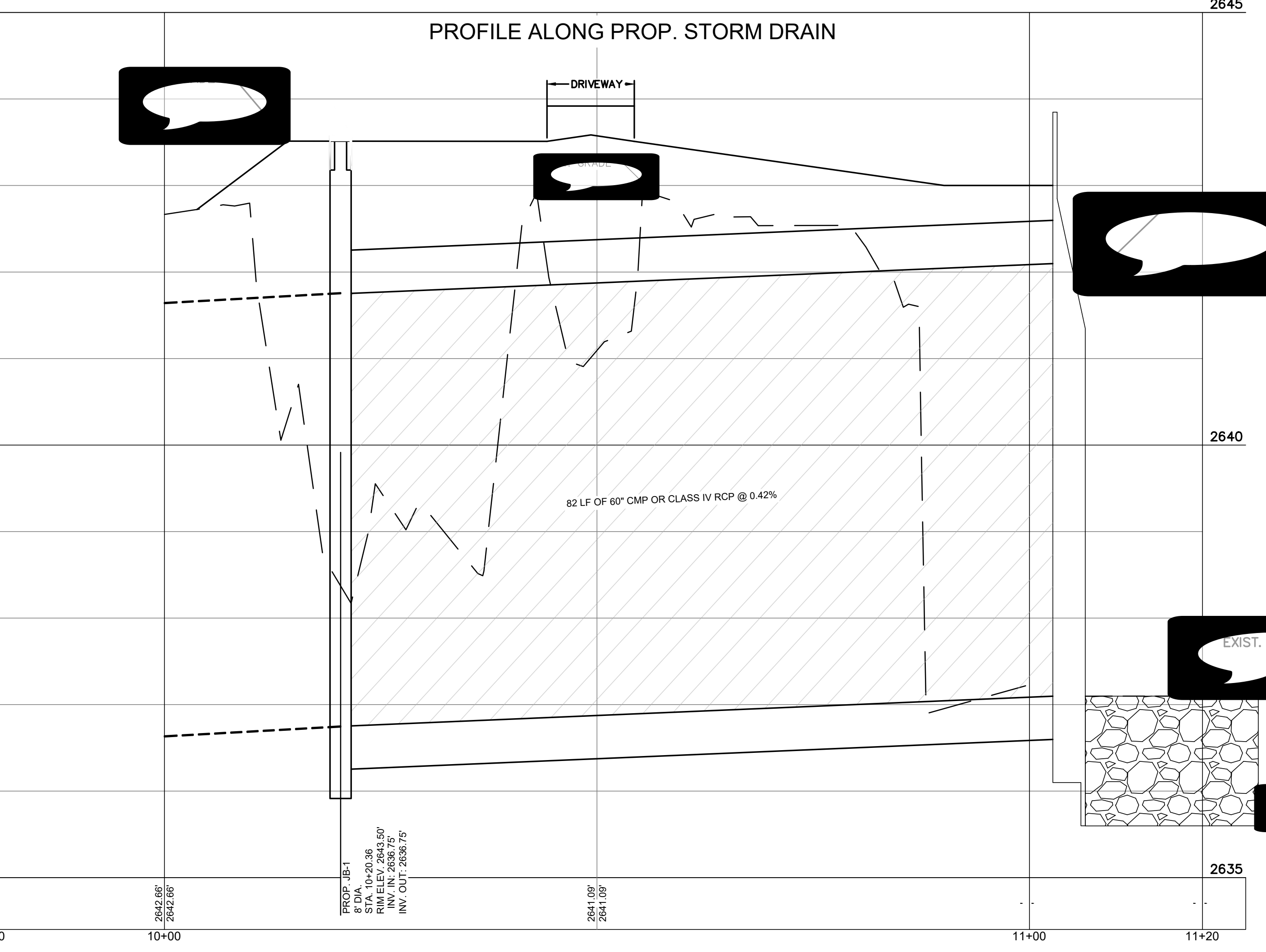


PROFILE  
SCALE 1" = 10' HORIZ.  
1" = 1' VERT.

PROFILE  
SCALE 1" = 10' HORIZ.  
1" = 1' VERT.

PROFILE ALONG PROP. STORM DRAIN

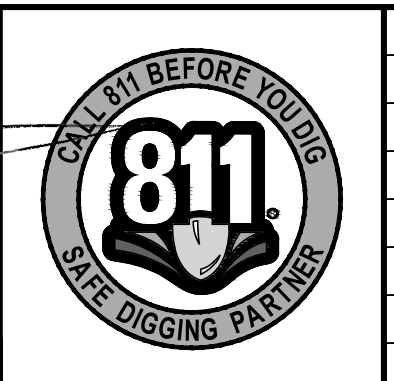
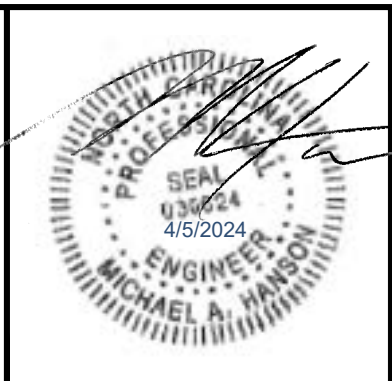
PROFILE ALONG PROP. DRIVEWAY



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P:\2022\22.03005-CANTON-NC-MEADOWBROOK CULVERT AND DRIVEWAY DRAWINGS\SHEETS\C-100 PLAN AND PROFILE.DWG PLOT DATE 4/15/2024 9:14 AM RUSSELL COX

55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com



NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

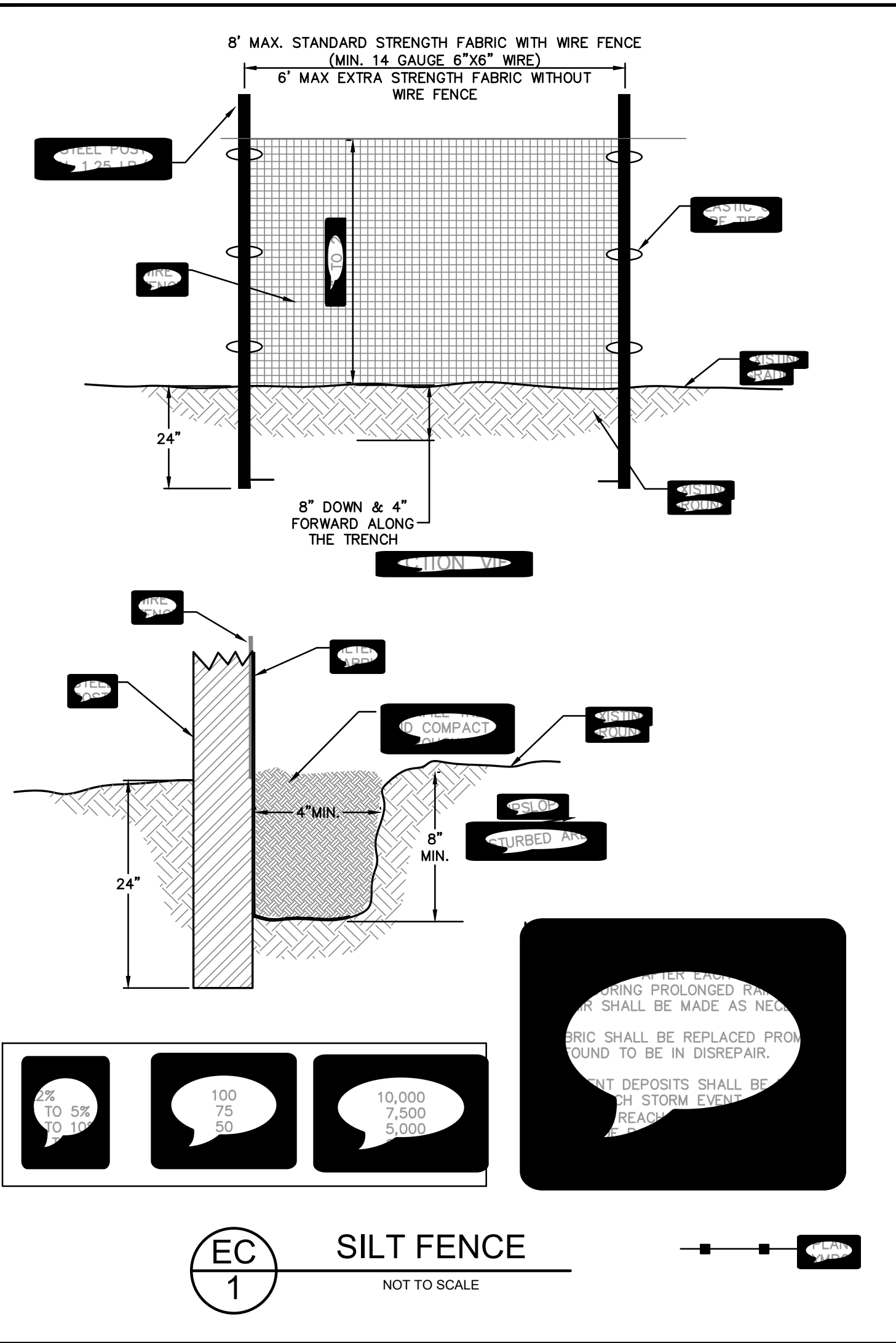
OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

MEADOWBROOK DRIVE - PLAN AND PROFILE		
DATE MARCH 2024	PROJECT # 22.03005	FUNDING # N/A

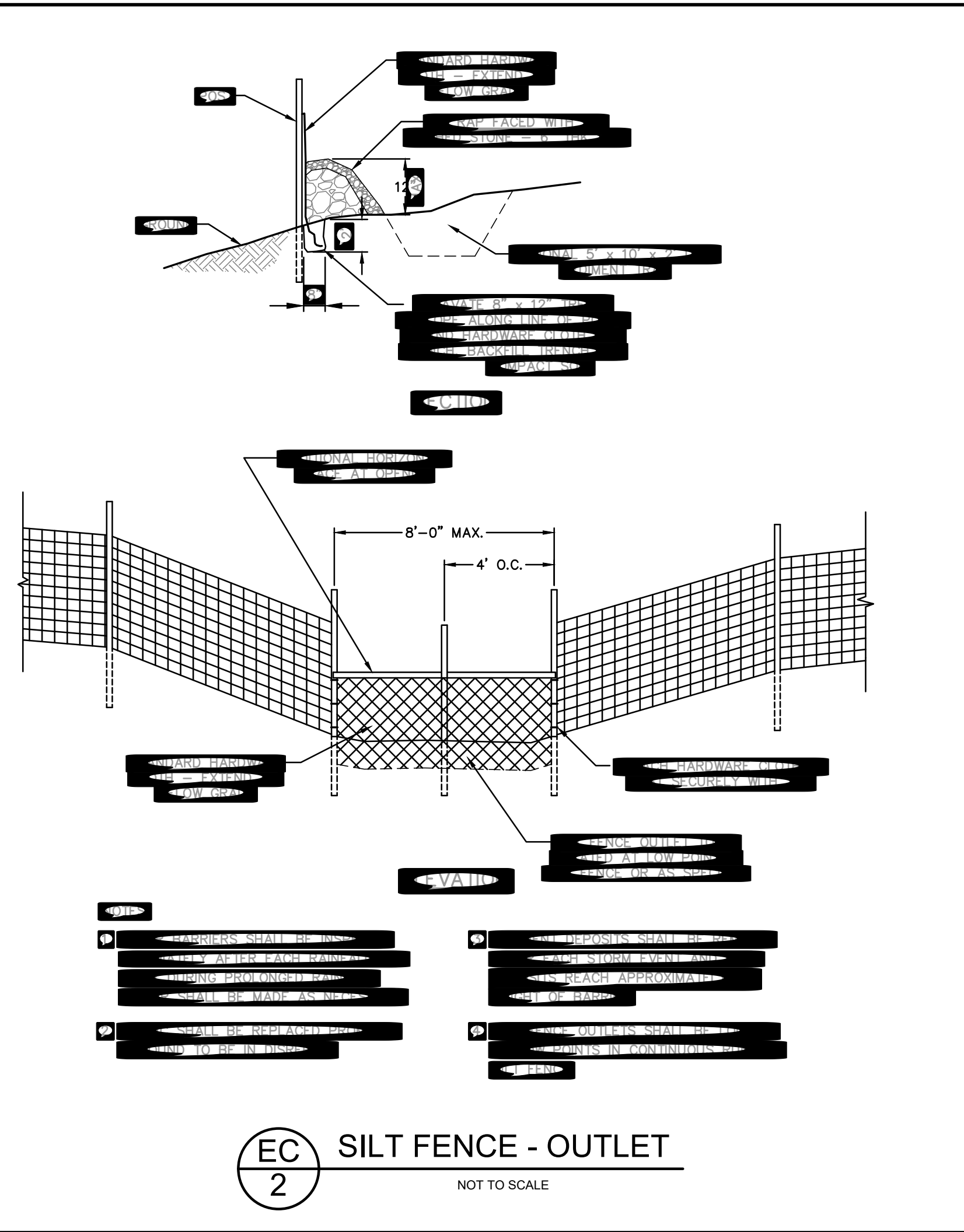
SHEET  
**C-104**

22.03005 - TOWN OF CANTON - MEADOWBROOK DRIVE CULVERT REPAIR

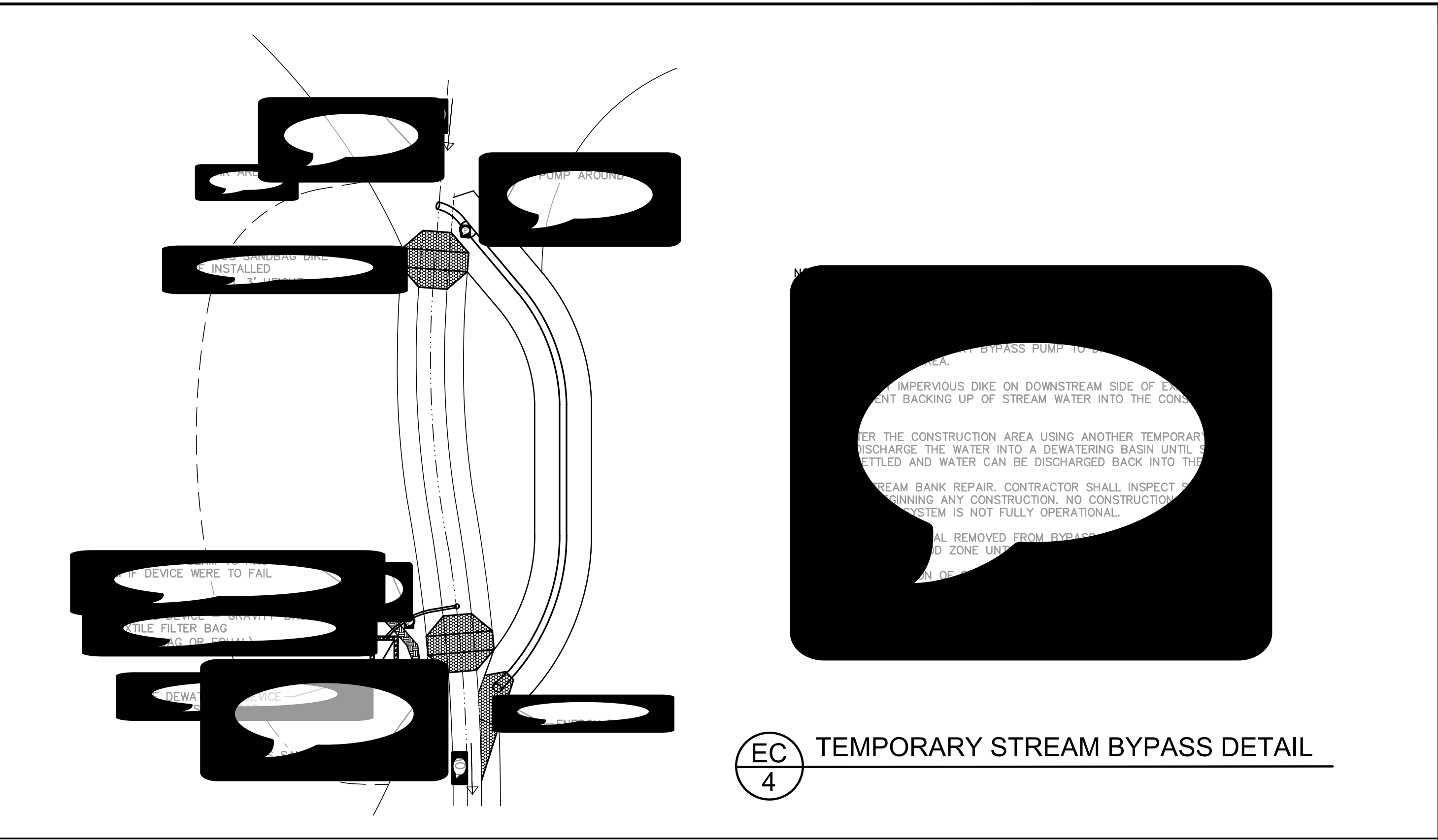
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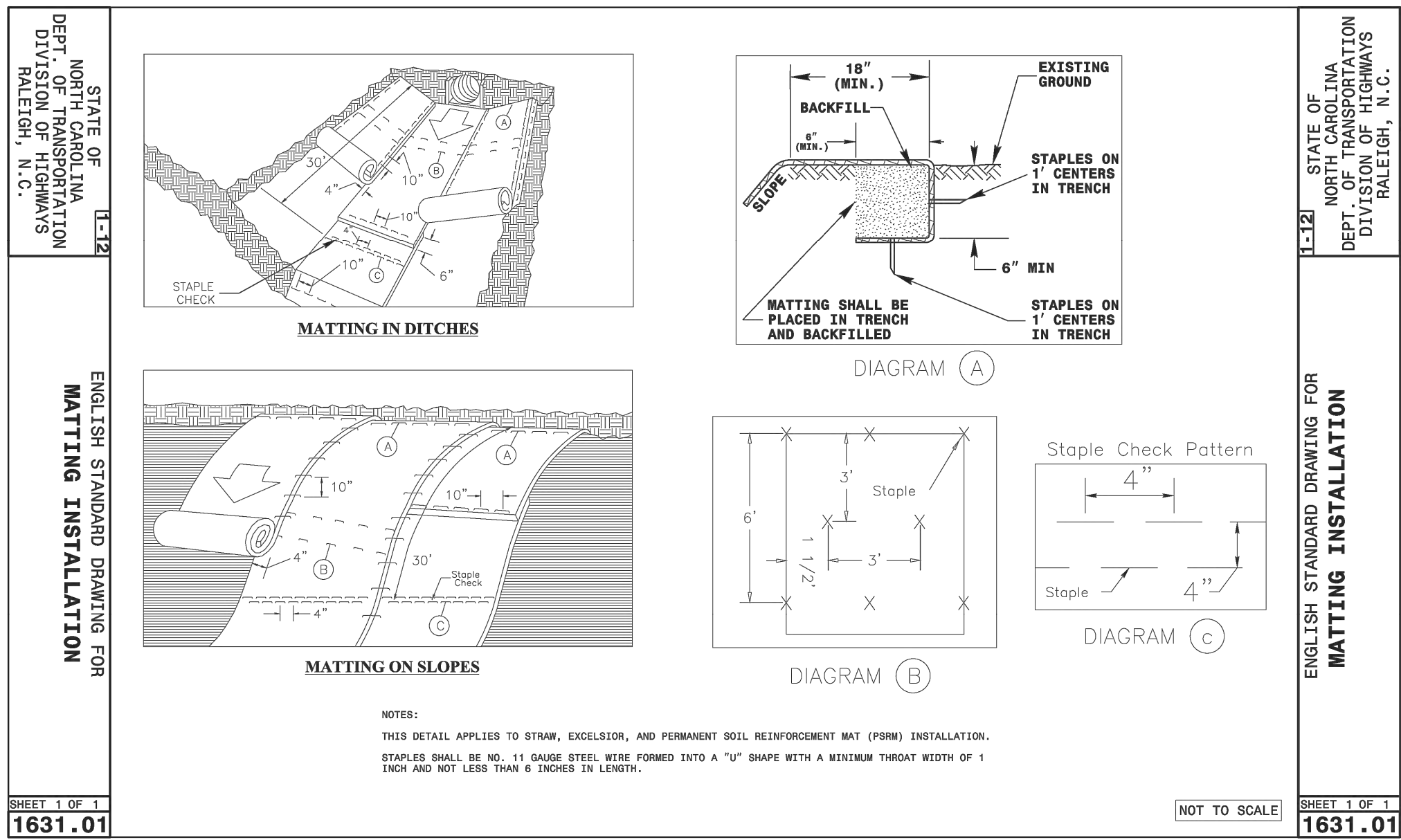
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NOT TO SCALE



**EC 2** SILT FENCE - OUTLET  
NOT TO SCALE



**EC 4** TEMPORARY STREAM BYPASS DETAIL



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

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

SHEET 1 OF 1  
1631.01

SHEET 1 OF 1  
1631.01

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55 Broad Street  
Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com

NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

NOT TO SCALE

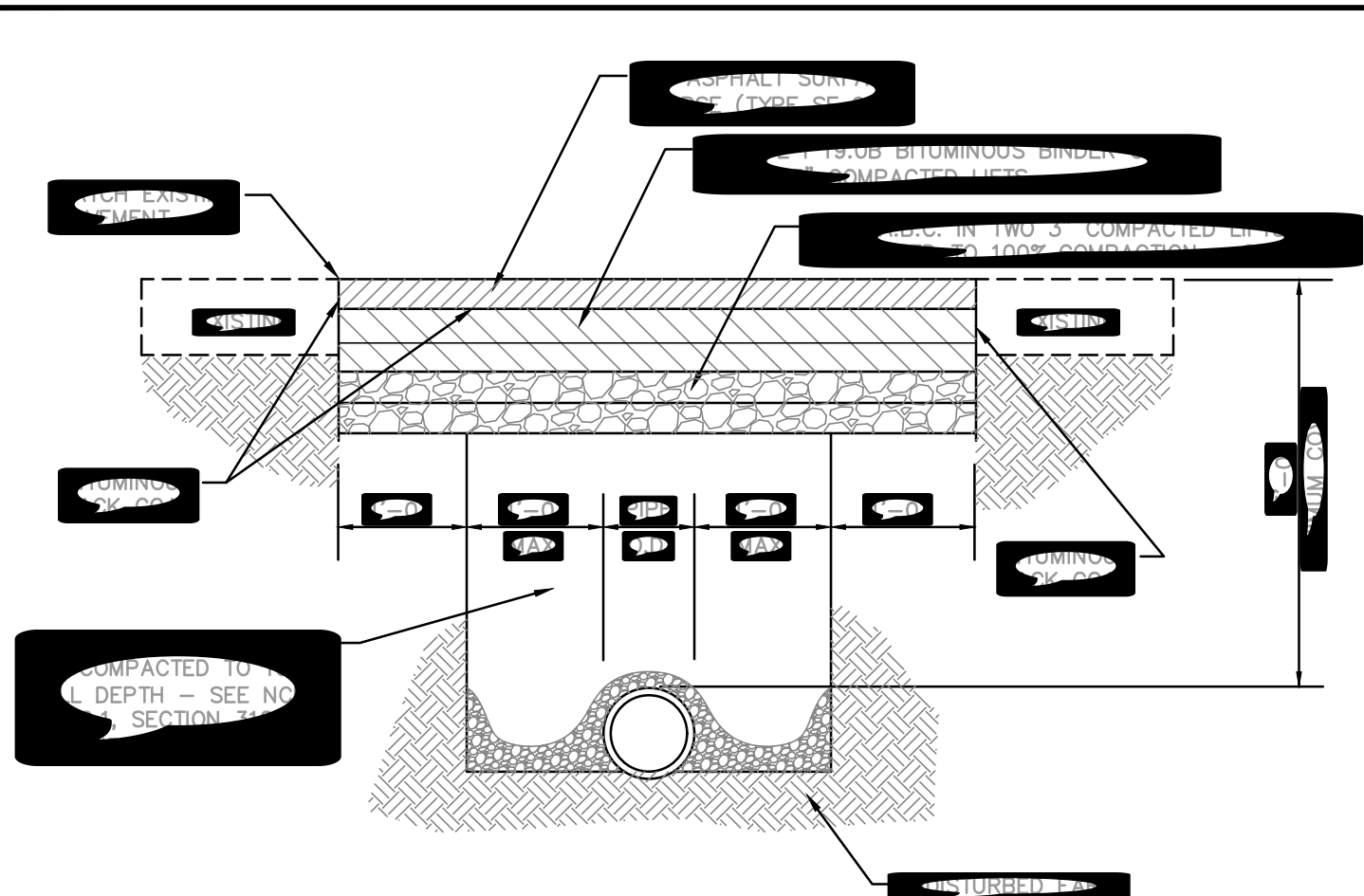
OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

GENERAL DETAILS

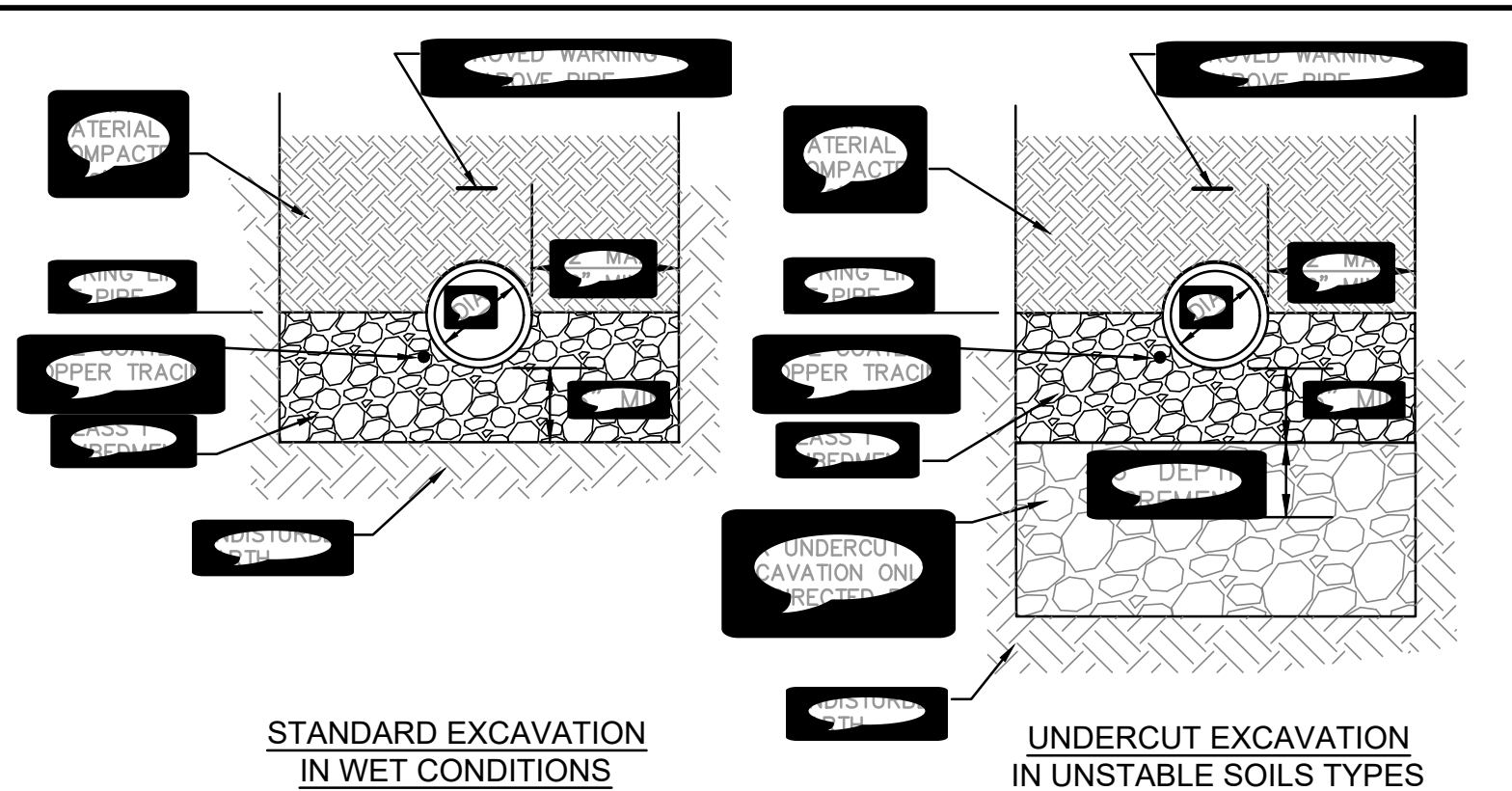
DATE APRIL 2024	PROJECT # VARIES	FUNDING # N/A
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SHEET  
**C-500**

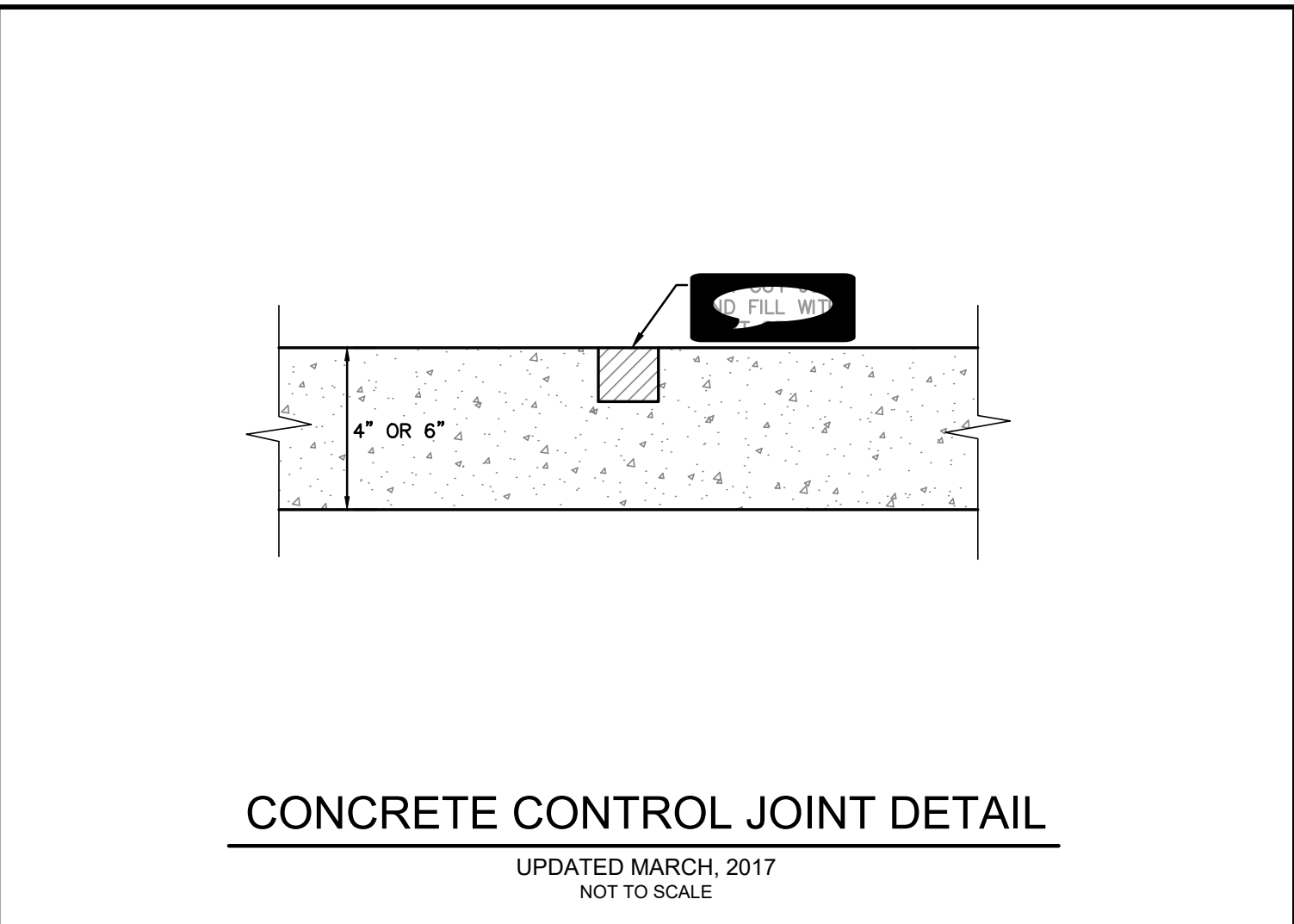
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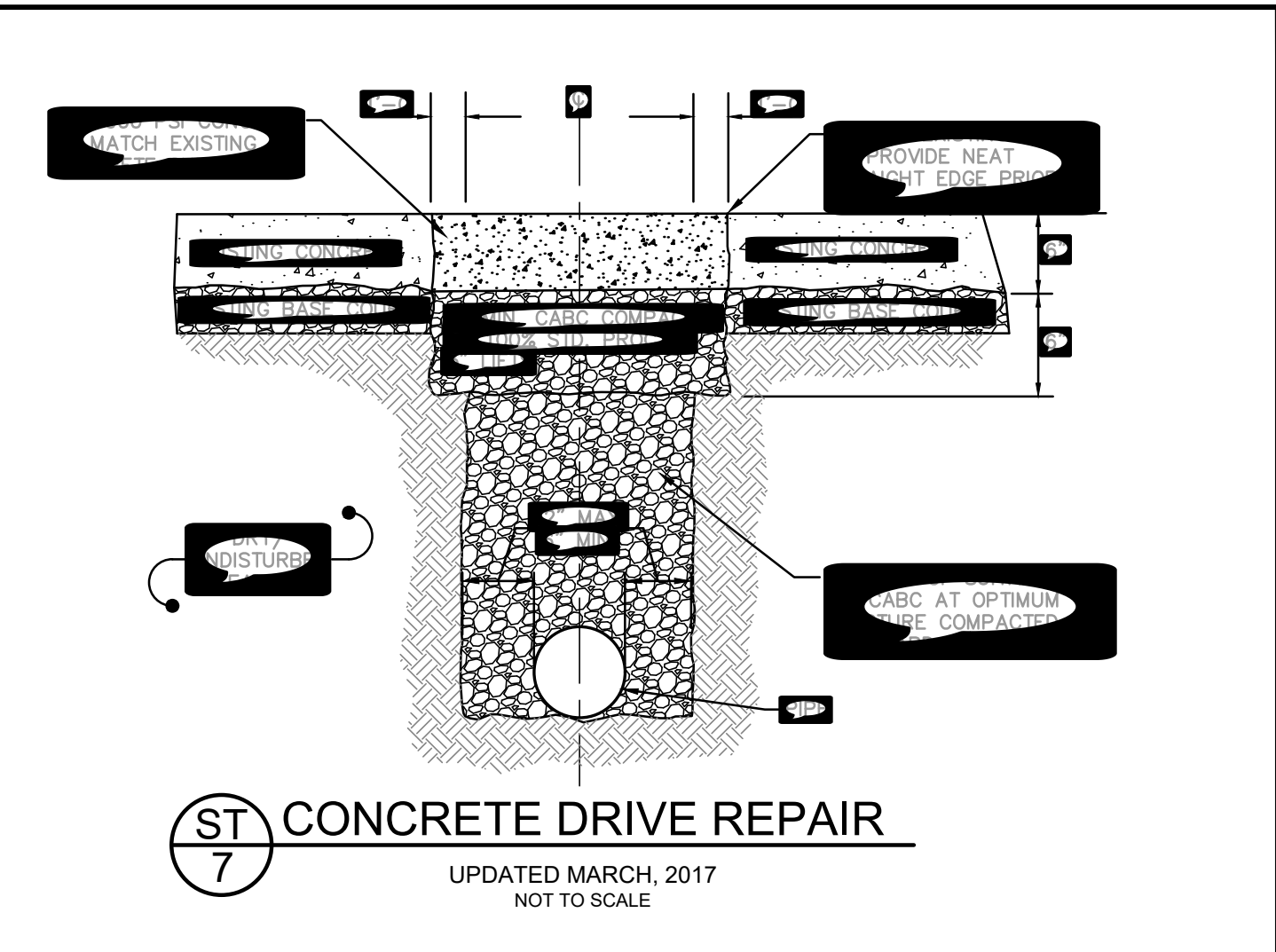
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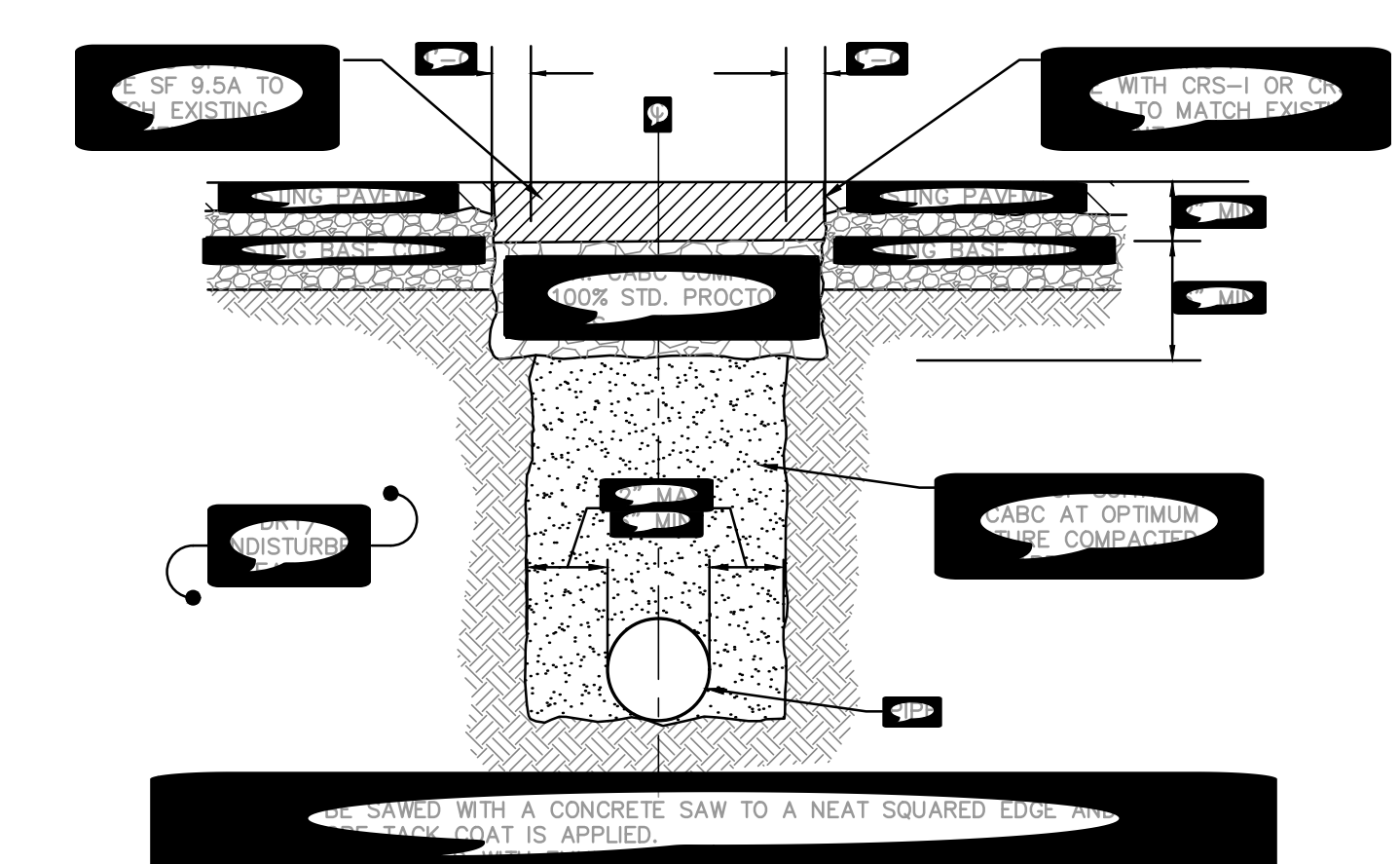
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NOT TO SCALE



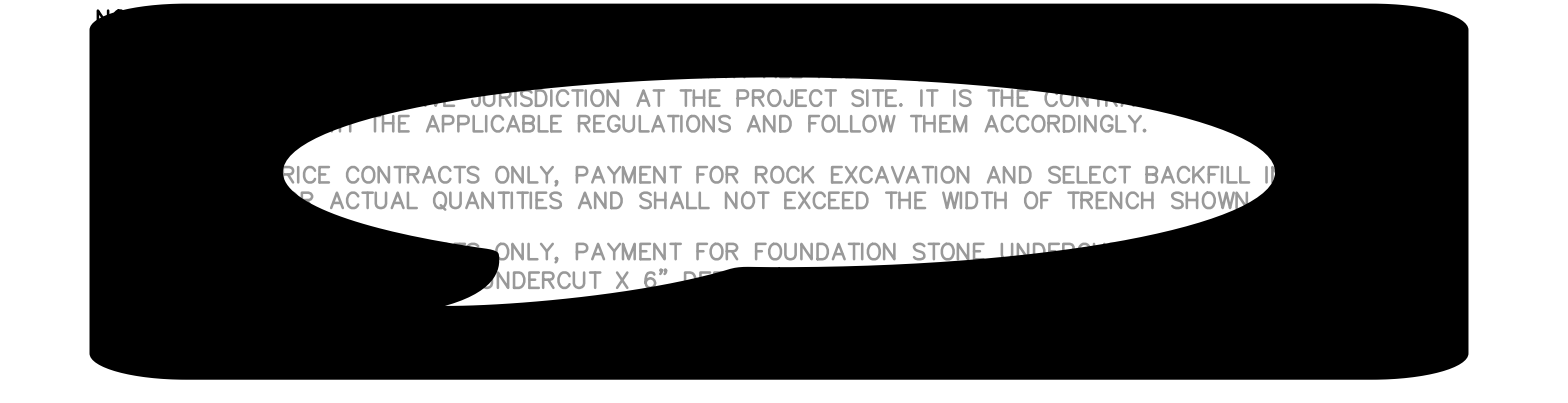
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UPDATED MARCH, 2017  
NOT TO SCALE



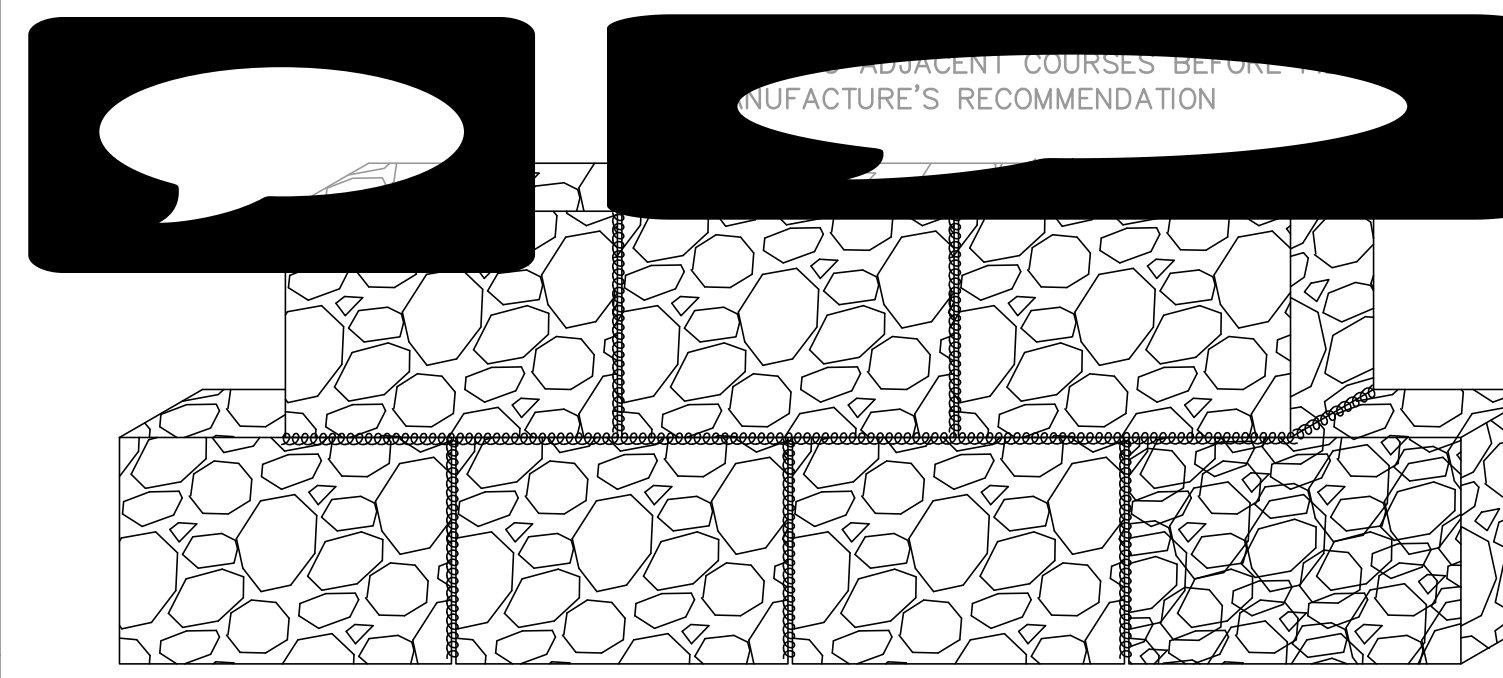
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UPDATED MARCH, 2017  
NOT TO SCALE



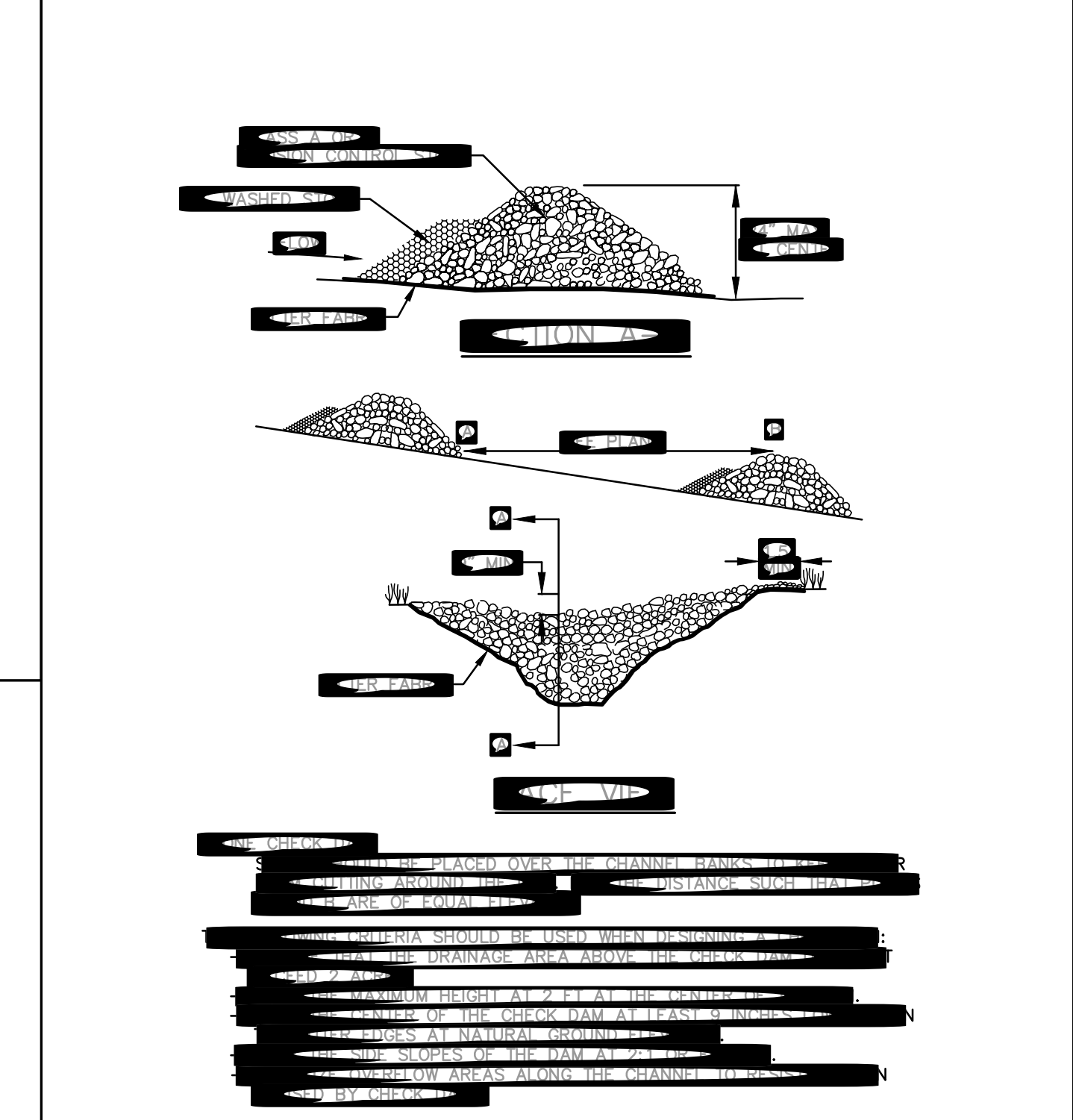
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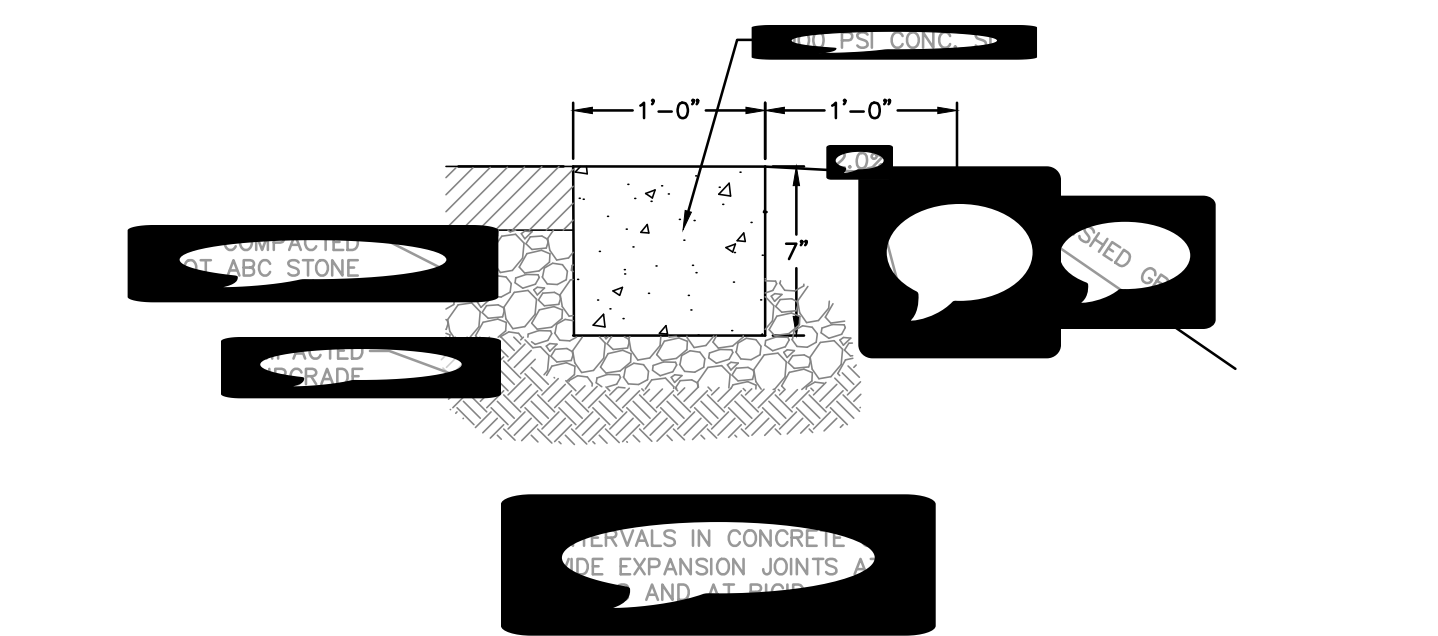
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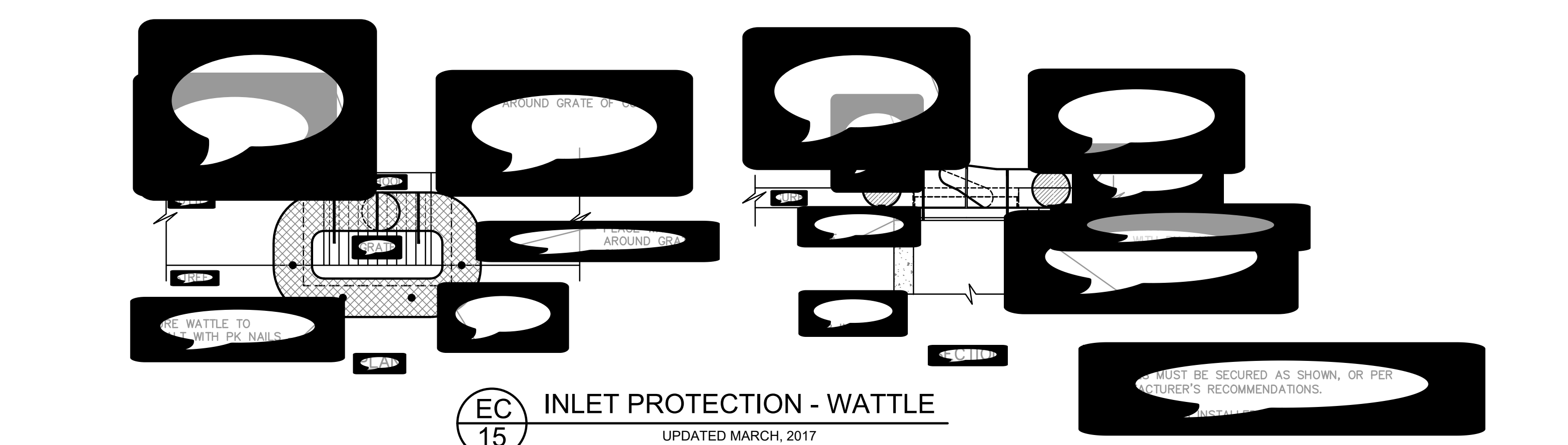
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EC 13 RIP RAP CHECK DAM  
UPDATED MARCH, 2017  
NOT TO SCALE



3 CURB & SHOULDER  
NOT TO SCALE



EC 15 INLET PROTECTION - WATTLE  
UPDATED MARCH, 2017  
NOT TO SCALE

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NC Firm License # C-0459  
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PROFESSIONAL SEAL  
4/5/2024  
MICHAEL A. HANSON  
ENGINEER

CALL 811 BEFORE YOU DIG  
SAFE DIGGING PARTNER

NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

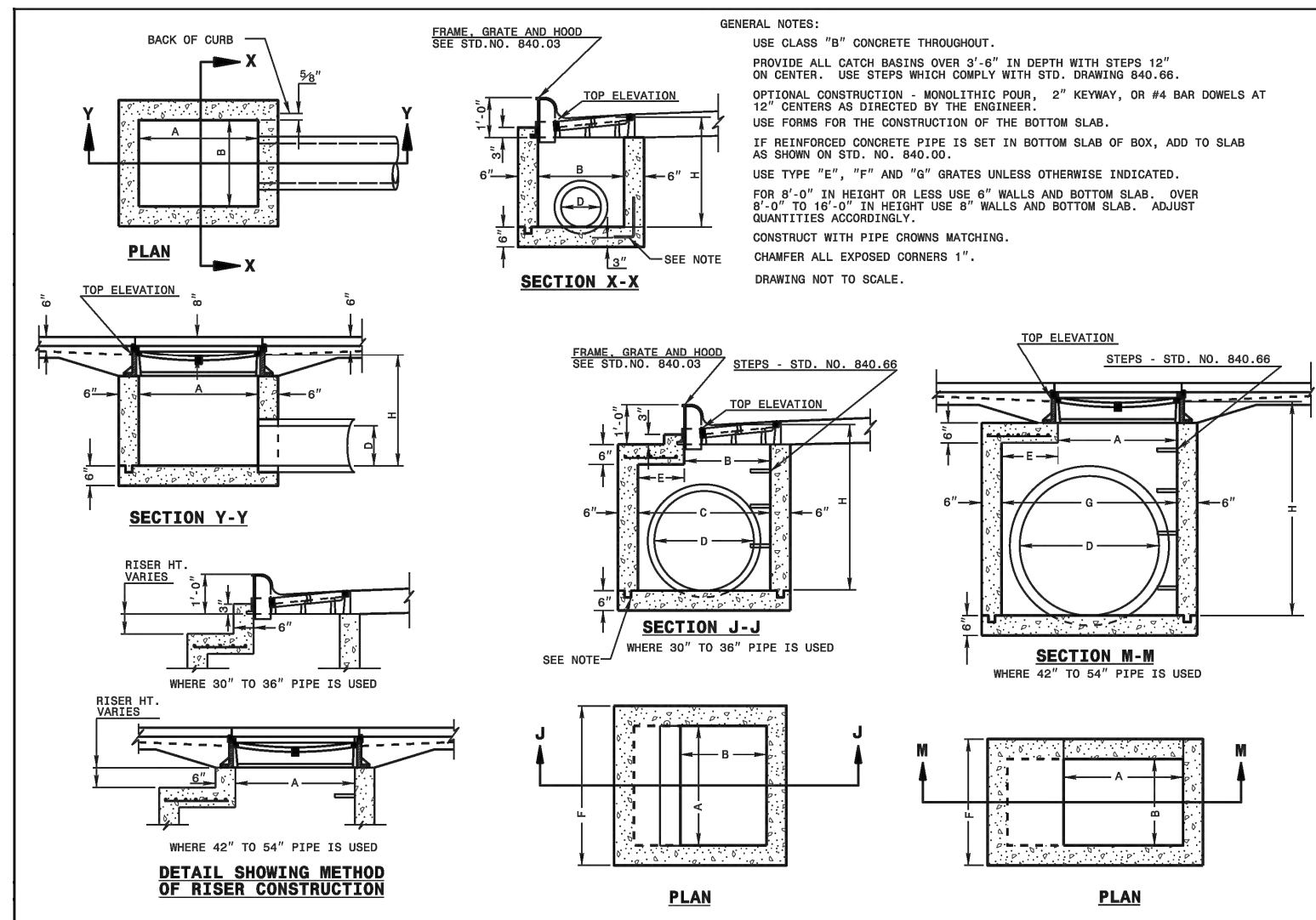
NOT TO SCALE

OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

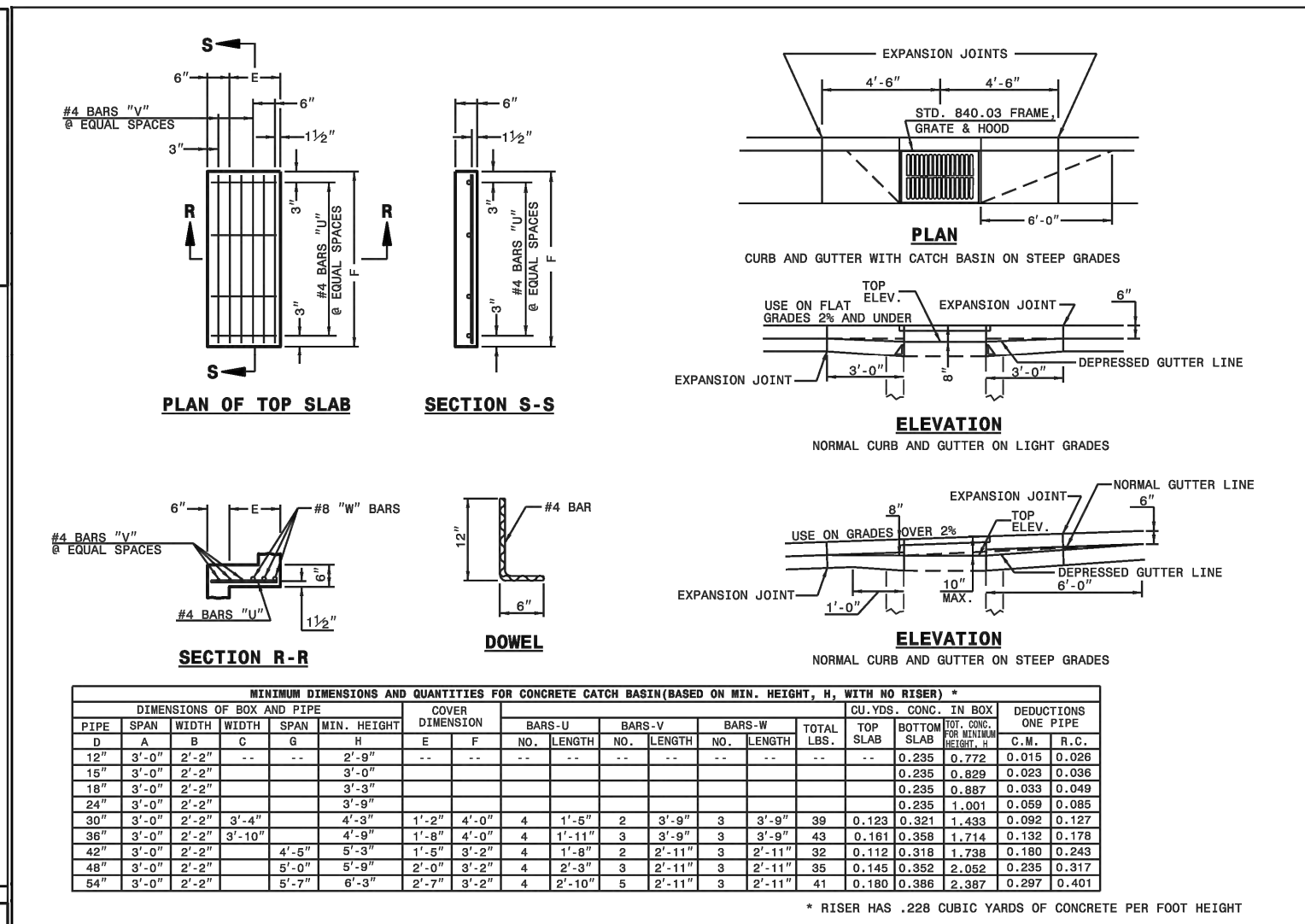
DATE APRIL 2024	PROJECT # VARIES	FUNDING # N/A
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SHEET  
**C-501**

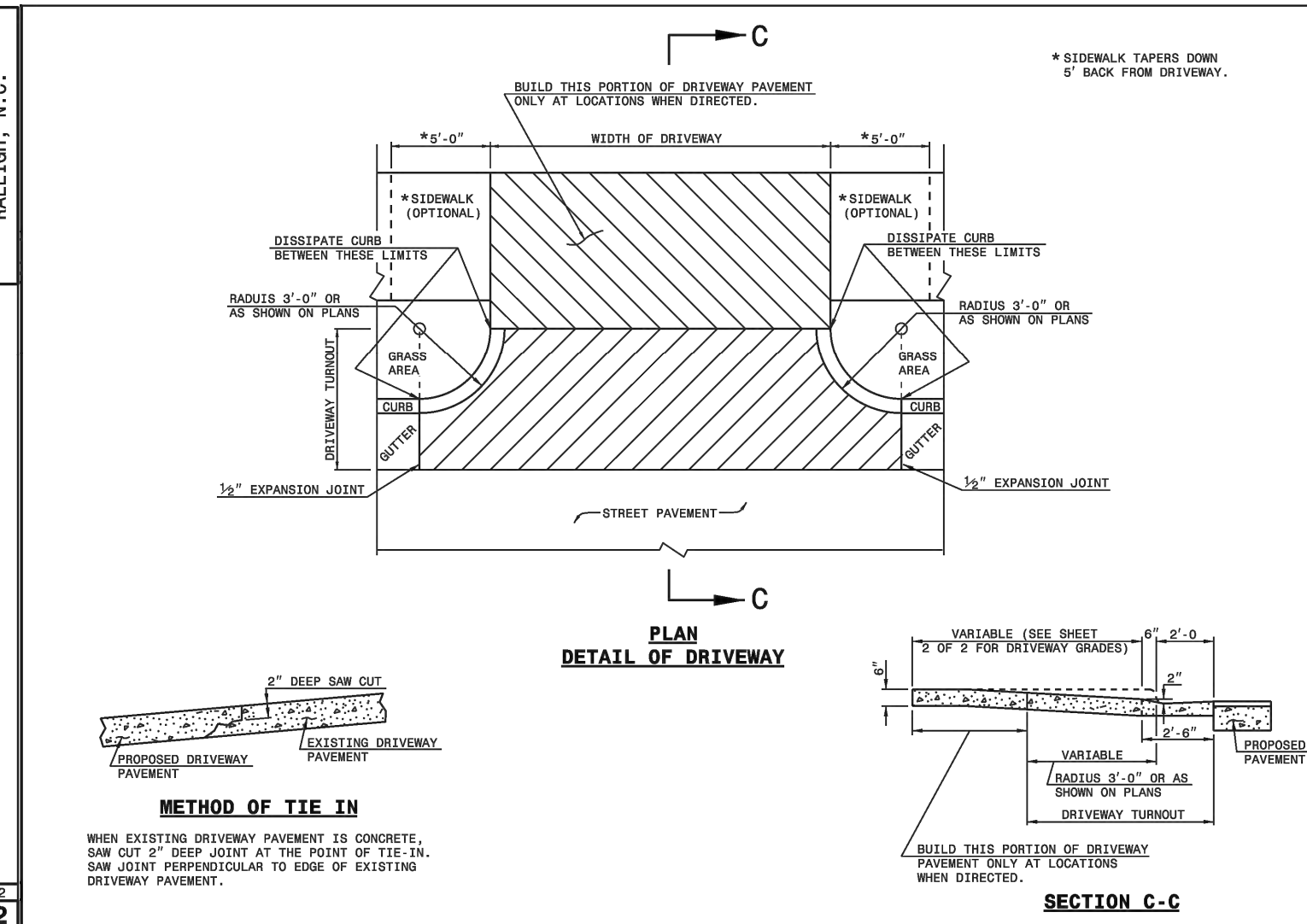
P:\2022\22.03002-CANTON\NC-RHODA STREET FLOOD DAMAGE REPAIR\DRAWINGS\SHEET\CANTON CULVERT REPLACEMENTS\CULVERT REPLACEMENTS - GENERAL SHEETS DWG PLOT DATE 4/15/2024 8:58 AM RUSSELL COX



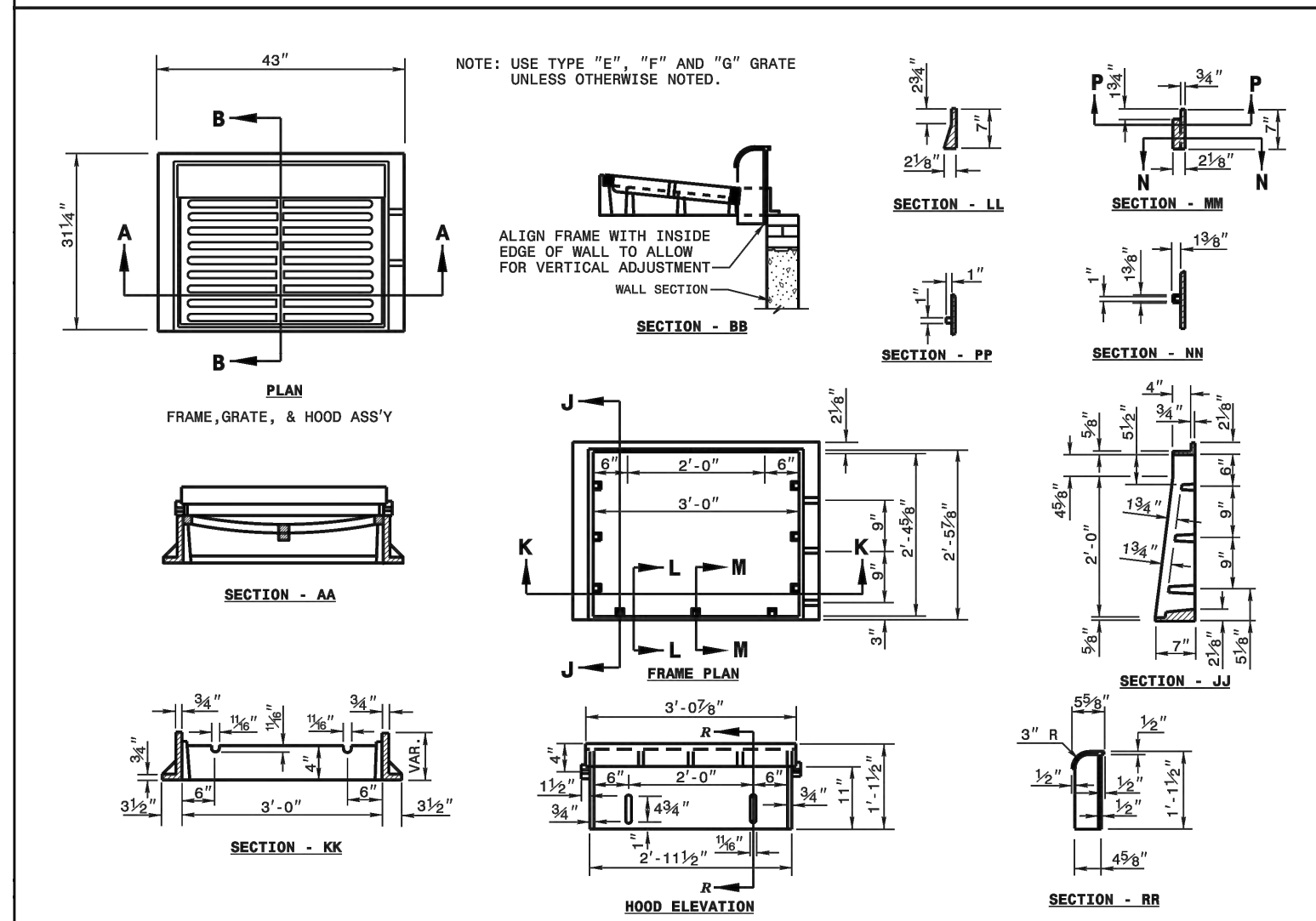
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
**CONCRETE CATCH BASIN**  
 12" THRU 54" PIPE  
 SHEET 1 OF 2  
**840.02**



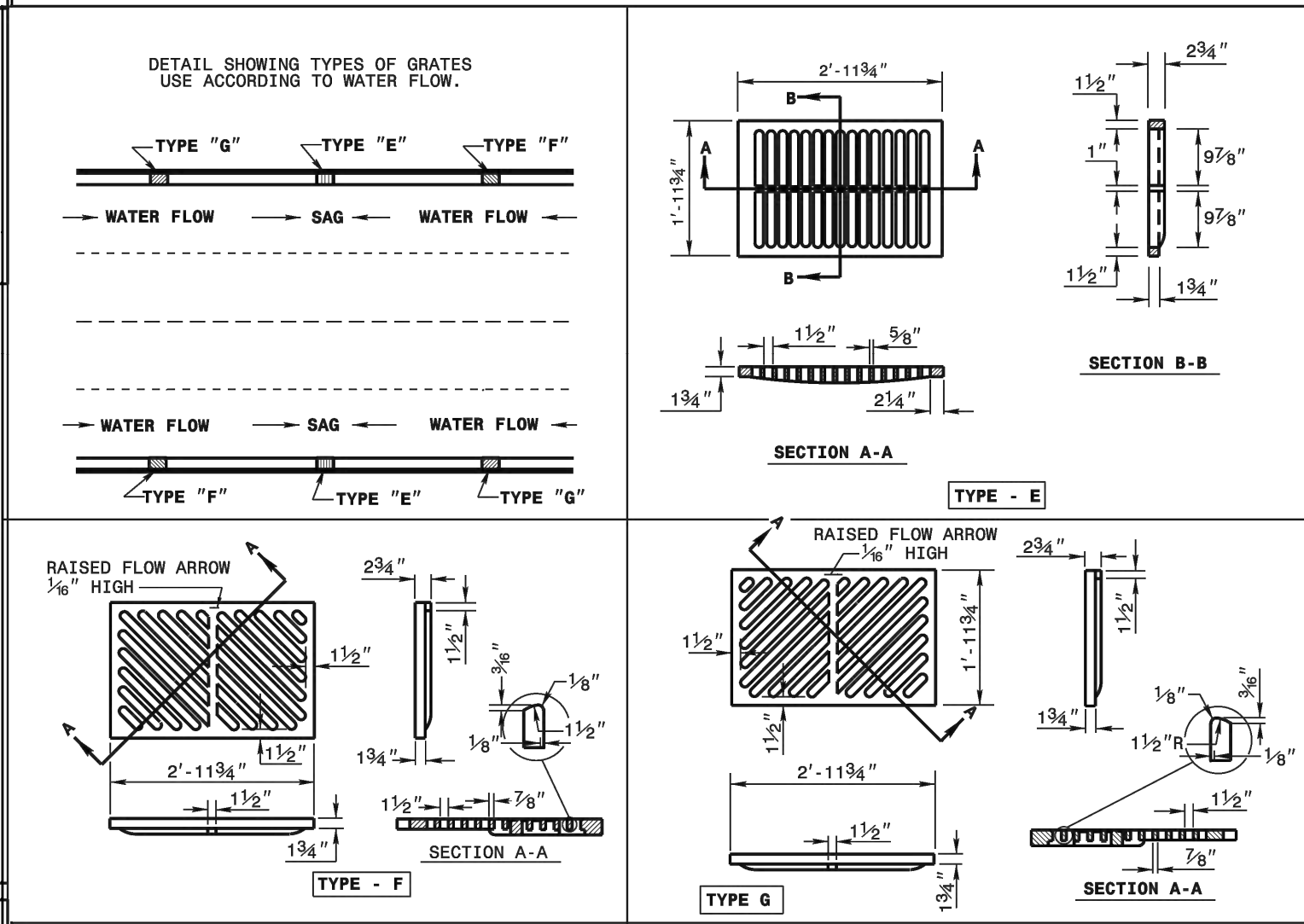
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
**CONCRETE CATCH BASIN**  
 12" THRU 54" PIPE  
 SHEET 2 OF 2  
**840.02**



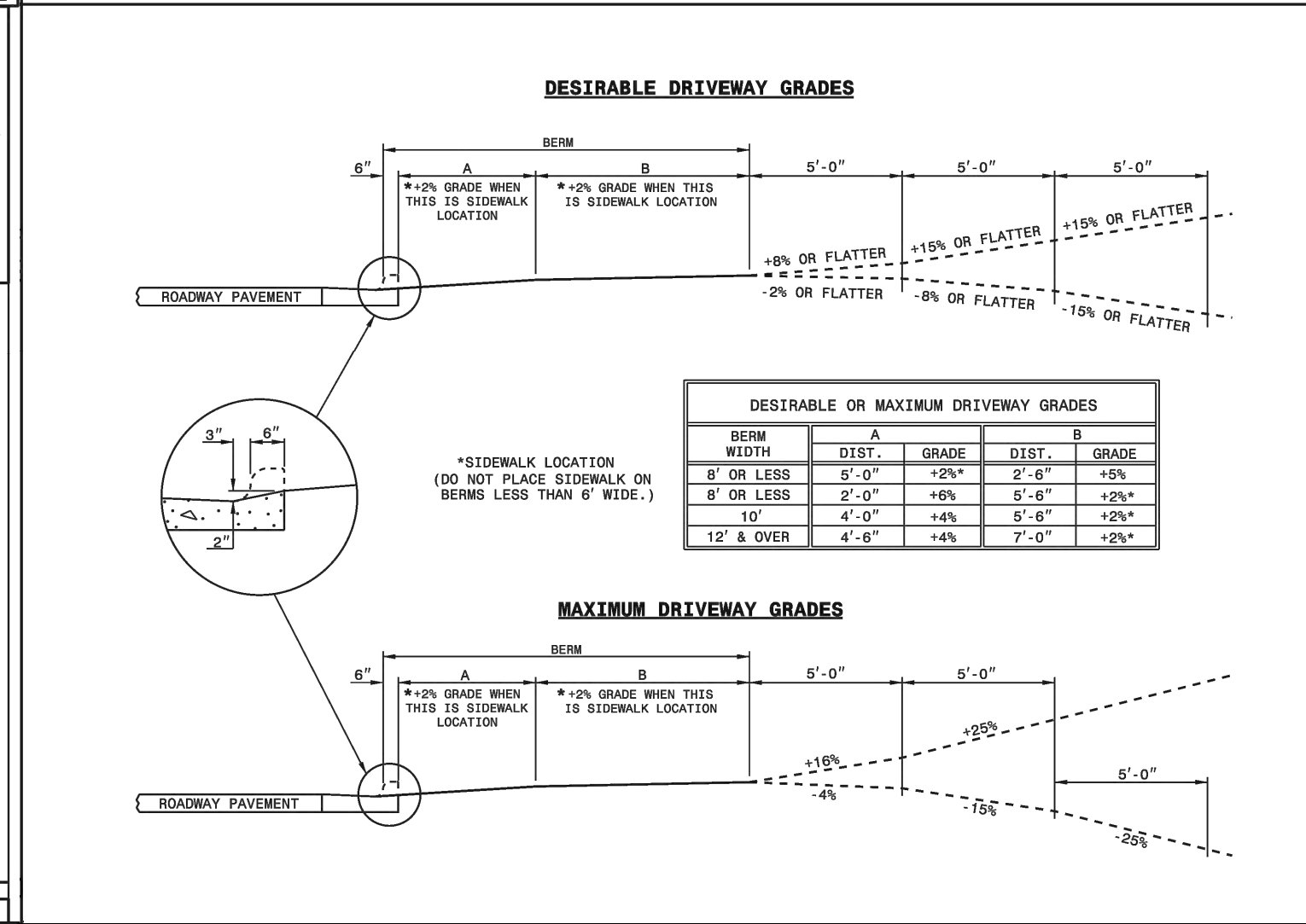
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
**DRIVEWAY TURNOUT**  
 RADIUS TYPE  
 SHEET 1 OF 2  
**848.02**



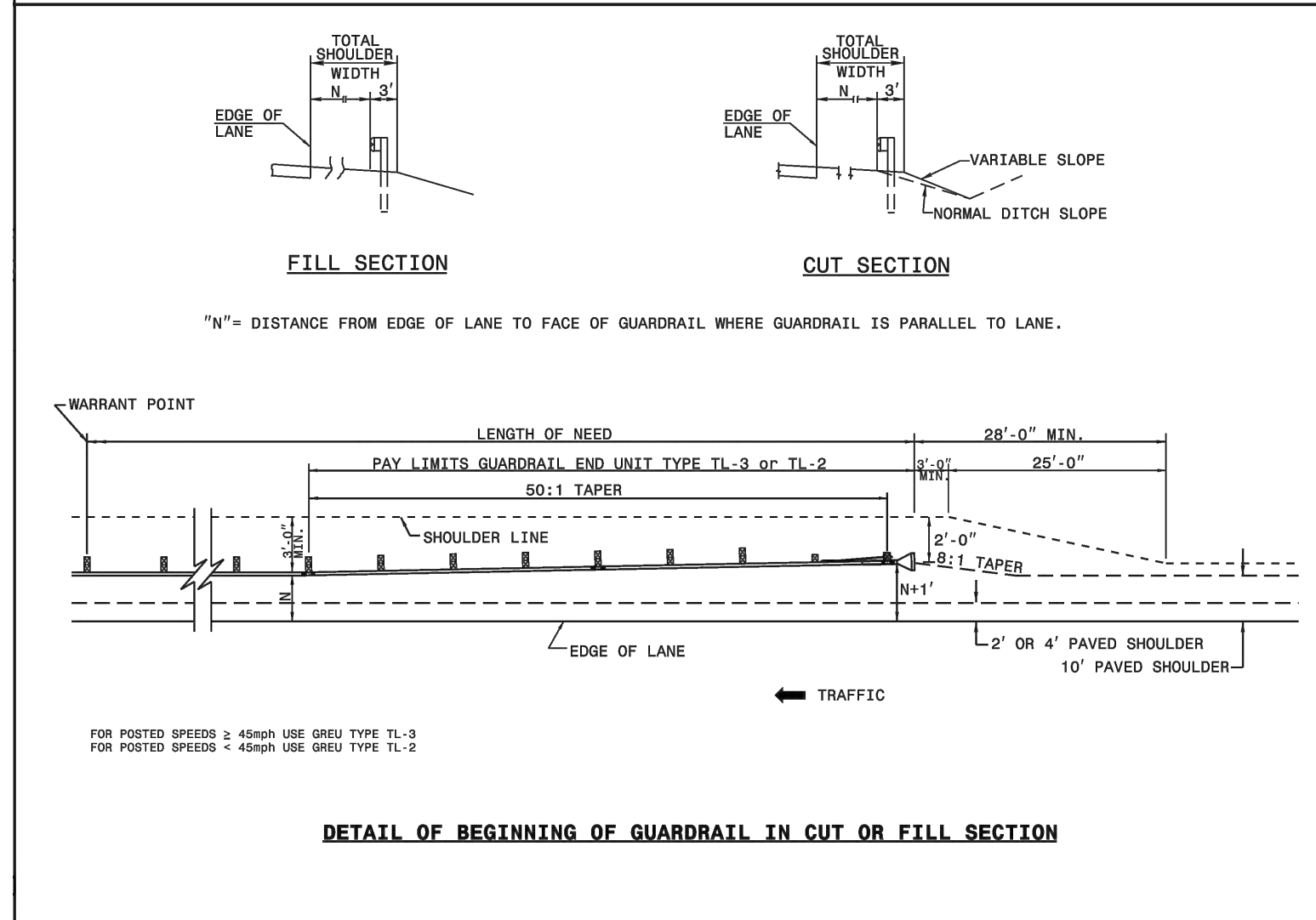
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
**FRAME, GRATES, AND HOOD**  
 FOR USE ON STANDARD CATCH BASIN  
 SHEET 1 OF 2  
**840.03**



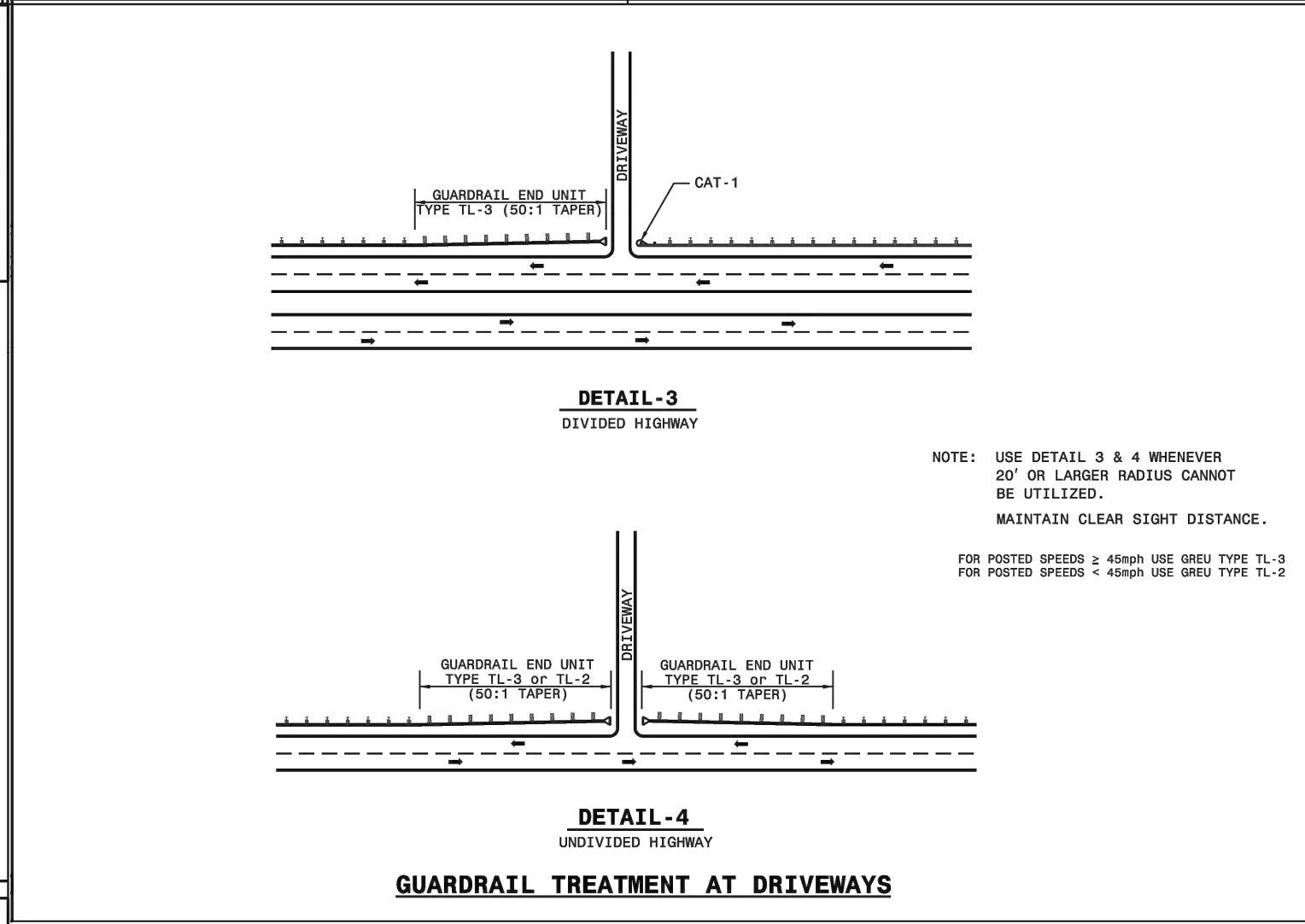
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
**FRAME, GRATES, AND HOOD**  
 FOR USE ON STANDARD CATCH BASIN  
 SHEET 2 OF 2  
**840.03**



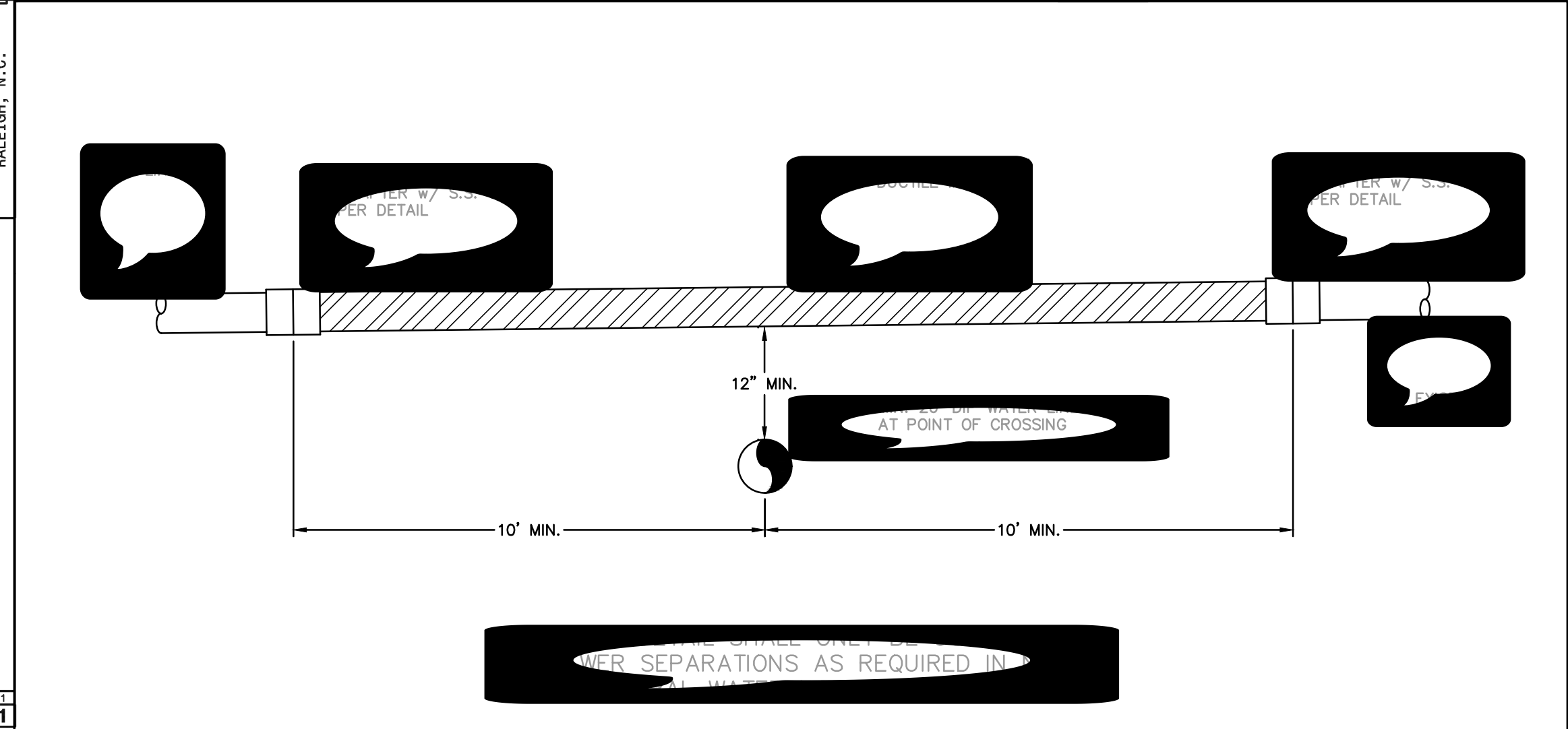
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
**DRIVEWAY TURNOUT**  
 DRIVEWAY GRADES  
 SHEET 2 OF 2  
**848.02**



STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL PLACEMENT**  
 SHEET 6 OF 11  
**862.01**



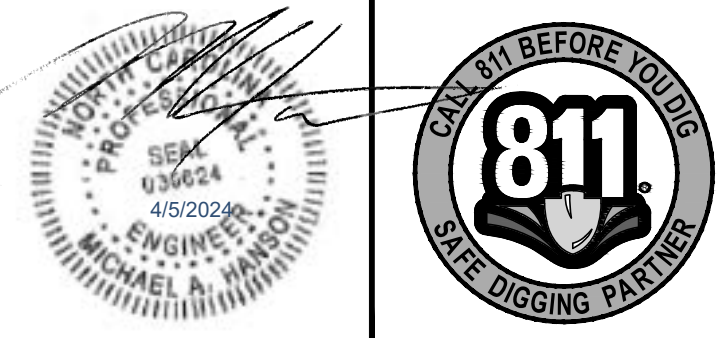
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL PLACEMENT**  
 SHEET 9 OF 11  
**862.01**



W  
 45

WATER AND SEWER CROSSING  
 UPDATED MARCH, 2017  
 NOT TO SCALE

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 CONSTRUCTION



NO.	DATE	BY	DESCRIPTION

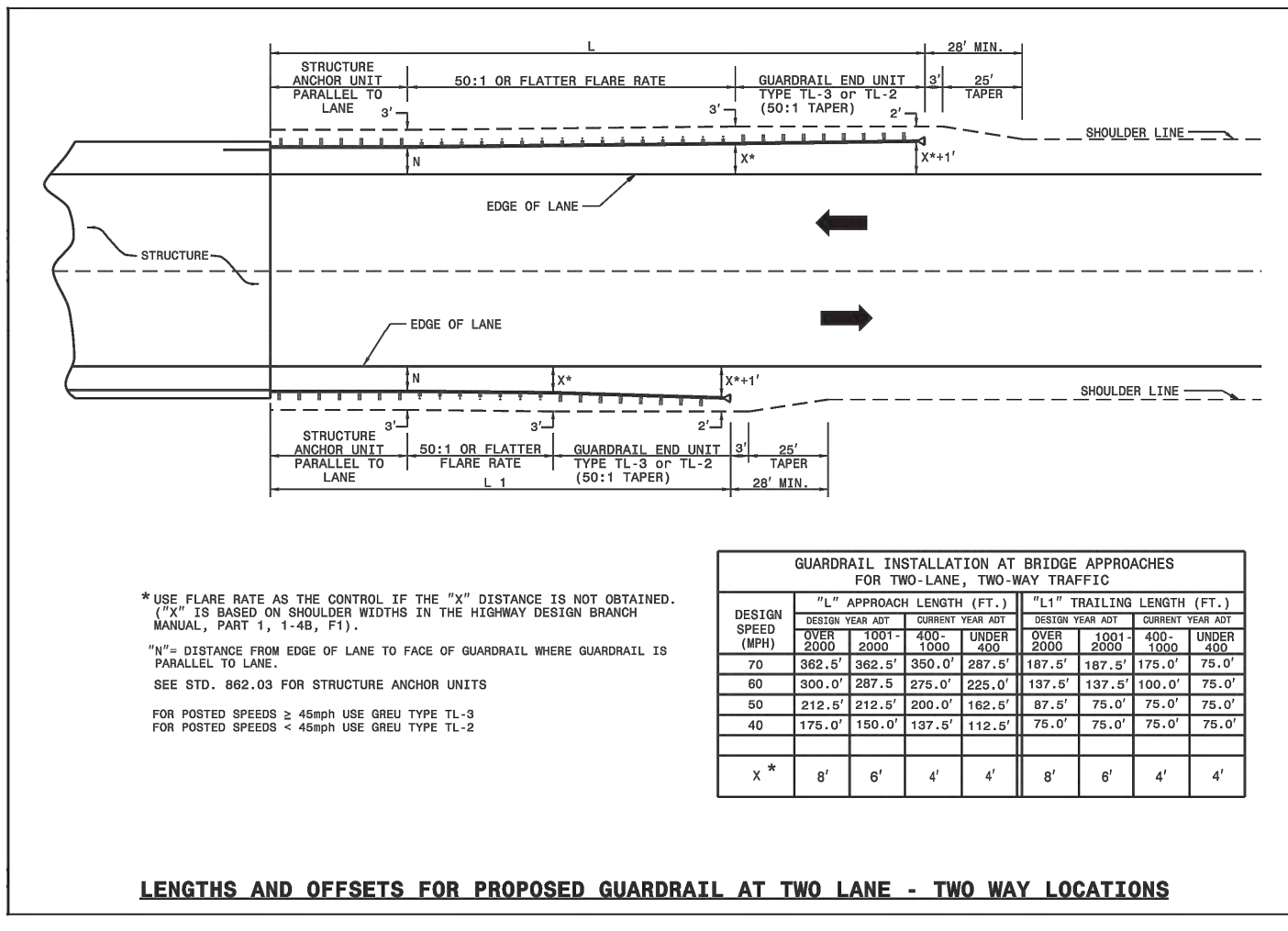
CANTON CULVERT PACKAGE  
 RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
 HAYWOOD COUNTY, NORTH CAROLINA

NOT TO SCALE  
 OFFICE MANAGER  
 M. CATHEY  
 PROJECT MANAGER  
 M. HANSON

DESIGNER  
 K. BEESLEY  
 REVIEWER  
 M. HANSON

DATE  
 APRIL 2024  
 PROJECT #  
 VARIES  
 FUNDING #  
 N/A

SHEET  
**C-502**



**GUARDRAIL INSTALLATION AT BRIDGE APPROACHES FOR TWO-LANE, TWO-WAY TRAFFIC**

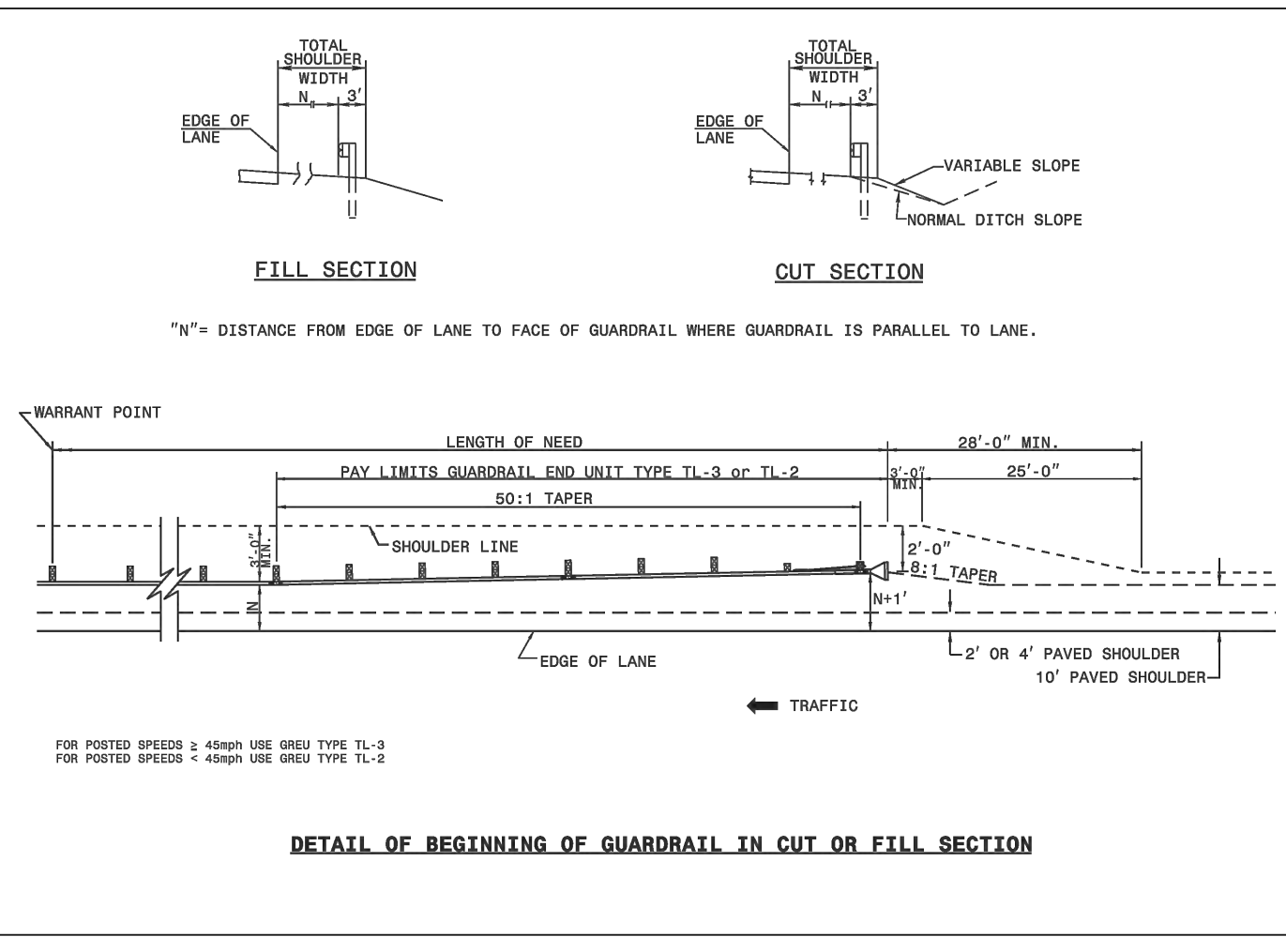
SECTION SPEED (MPH)	SECTION 1 (FT)	SECTION 2 (FT)	SECTION 3 (FT)	SECTION 4 (FT)	SECTION 5 (FT)	SECTION 6 (FT)	SECTION 7 (FT)	SECTION 8 (FT)	SECTION 9 (FT)	SECTION 10 (FT)	SECTION 11 (FT)	SECTION 12 (FT)
70	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
40	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

LENGTHS AND OFFSETS FOR PROPOSED GUARDRAIL AT TWO LANE - TWO WAY LOCATIONS

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

ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL PLACEMENT**

SHEET 4 OF 11  
**862.01**

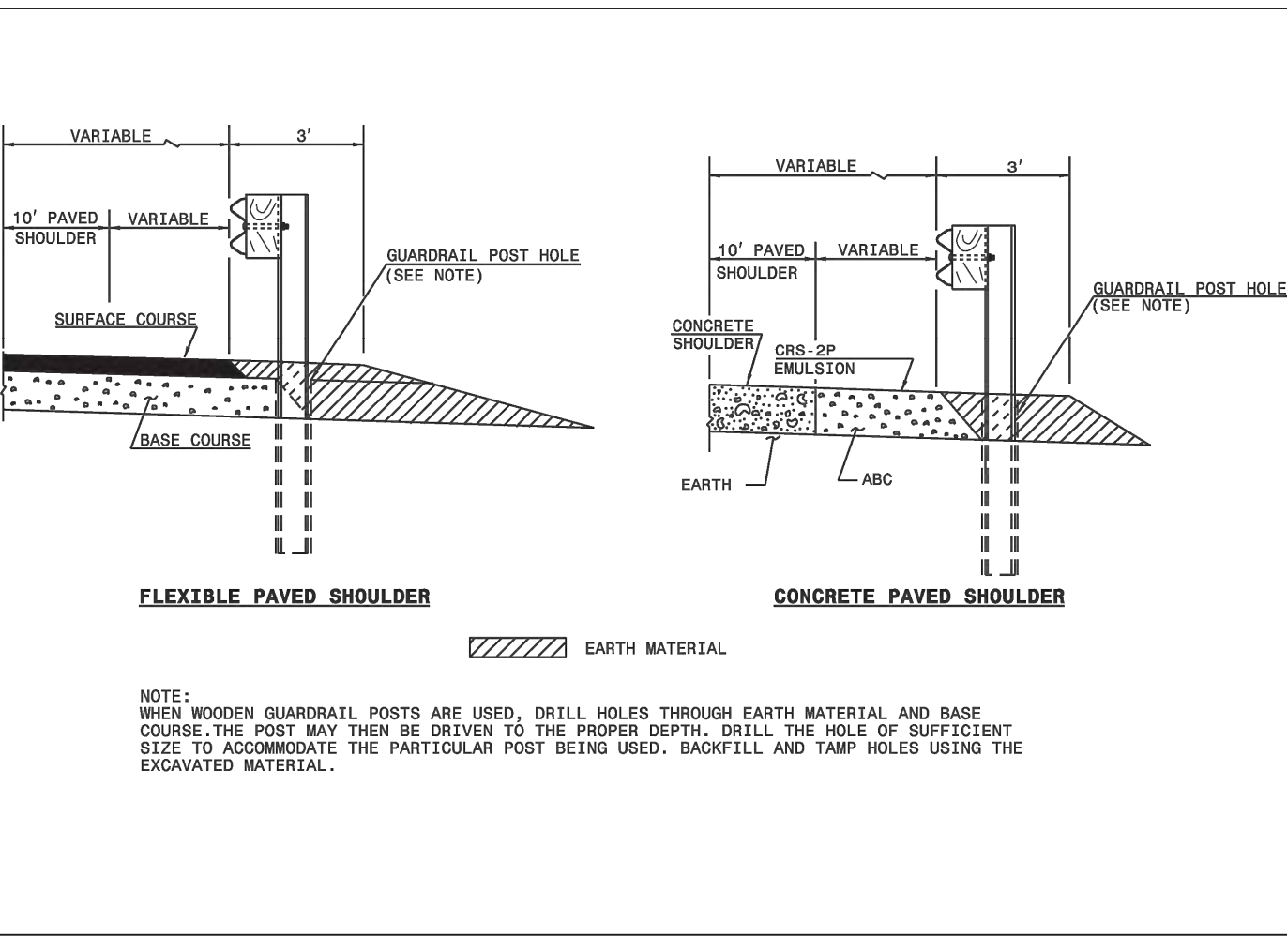


DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

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

ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL PLACEMENT**

SHEET 6 OF 11  
**862.01**

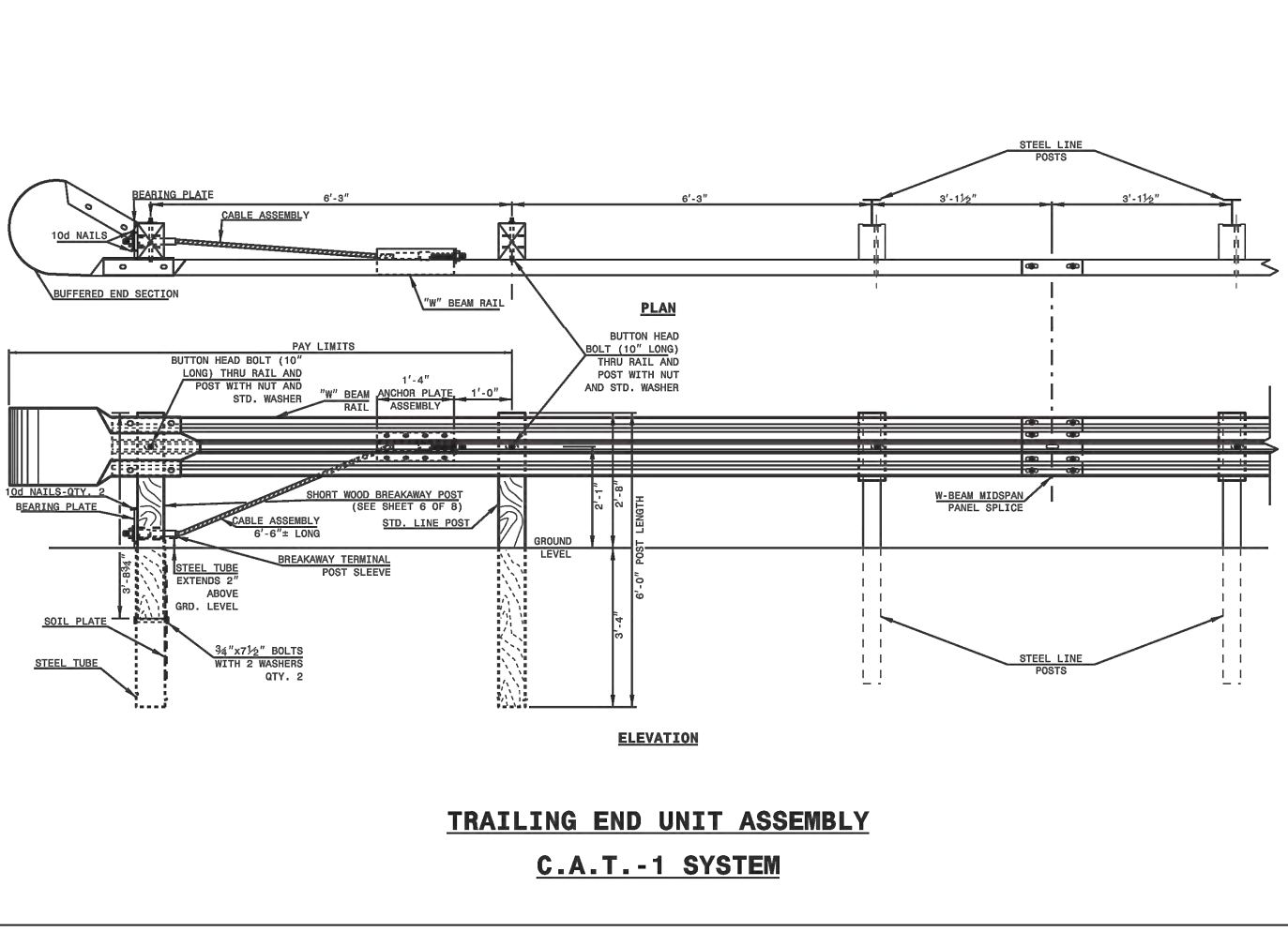


NOTE: WHEN WOODEN GUARDRAIL POSTS ARE USED, DRILL HOLES THROUGH EARTH MATERIAL AND BASE COURSE. THE POST MAY THEN BE DRIVEN TO THE PROPER DEPTH. DRILL THE HOLE OF SUFFICIENT SIZE TO ACCOMMODATE THE PARTICULAR POST BEING USED. BACKFILL AND TAMP HOLES USING THE EXCAVATED MATERIAL.

STATE OF NORTH CAROLINA  
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RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL PLACEMENT**

SHEET 10 OF 11  
**862.01**

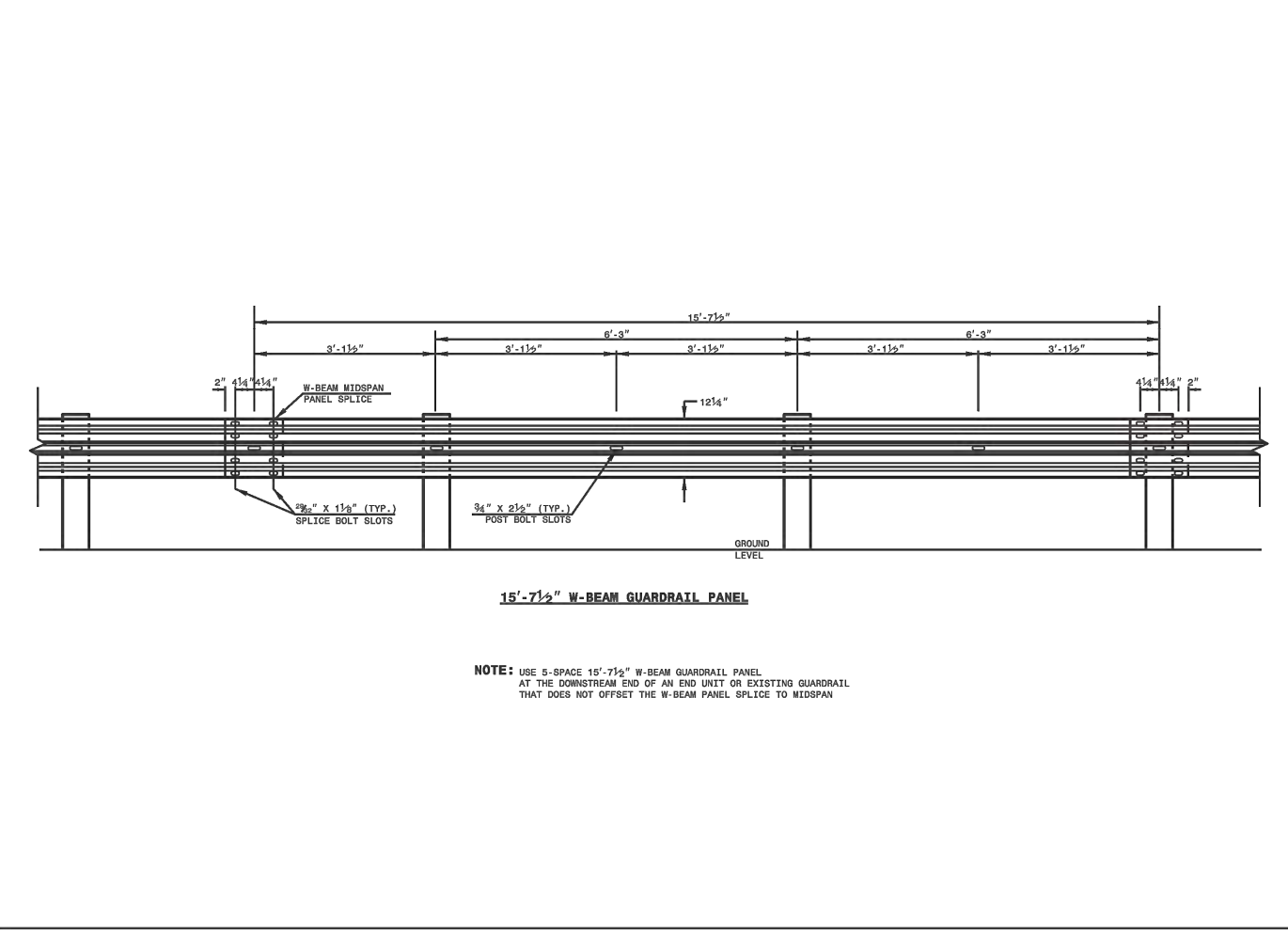


TRAILING END UNIT ASSEMBLY  
C.A.T.-1 SYSTEM

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

ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL INSTALLATION**

SHEET 1 OF 8  
**862.02**

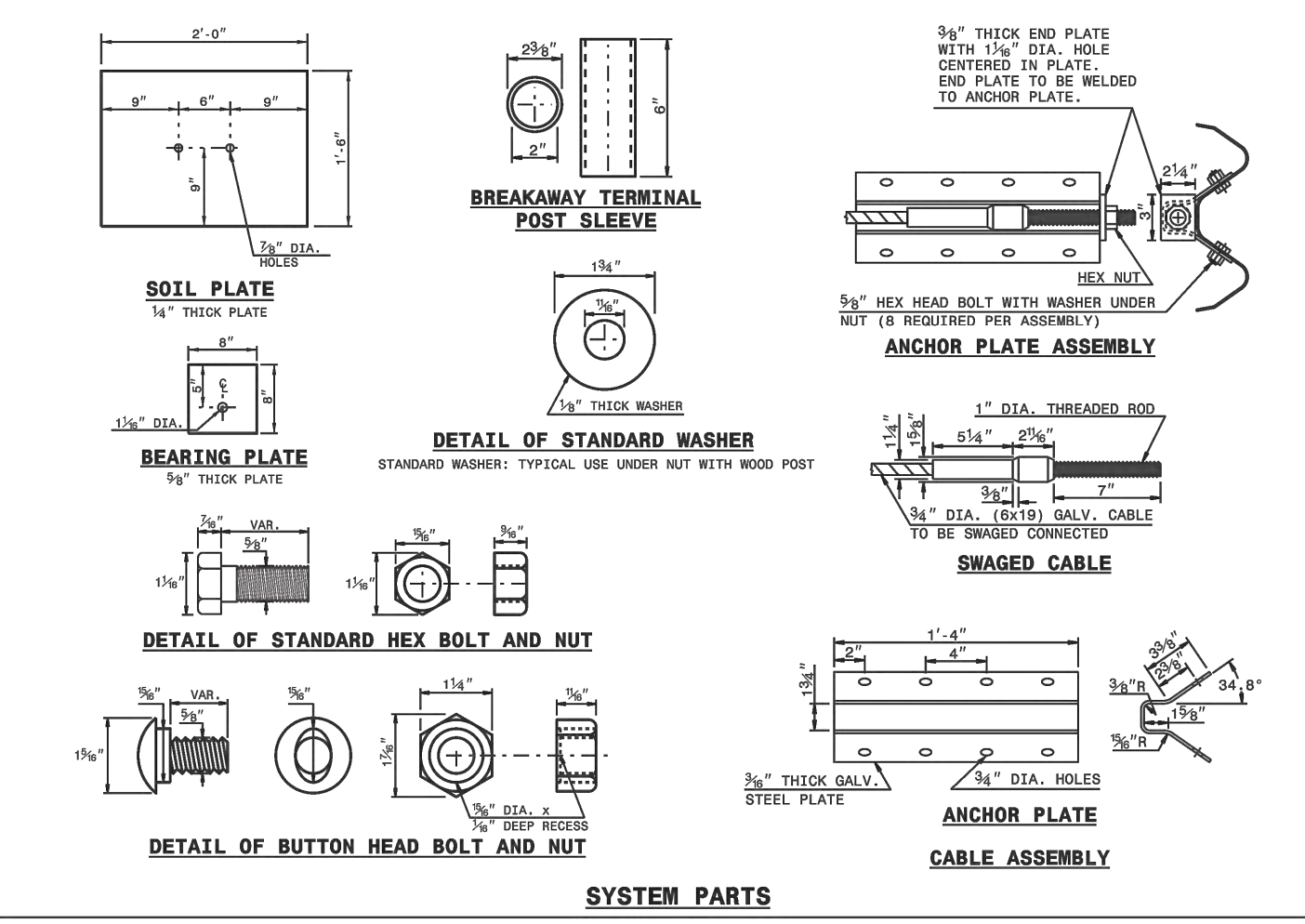


15' x 7 1/2" W-BEAM GUARDRAIL PANEL

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

ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL INSTALLATION**

SHEET 3 OF 8  
**862.02**

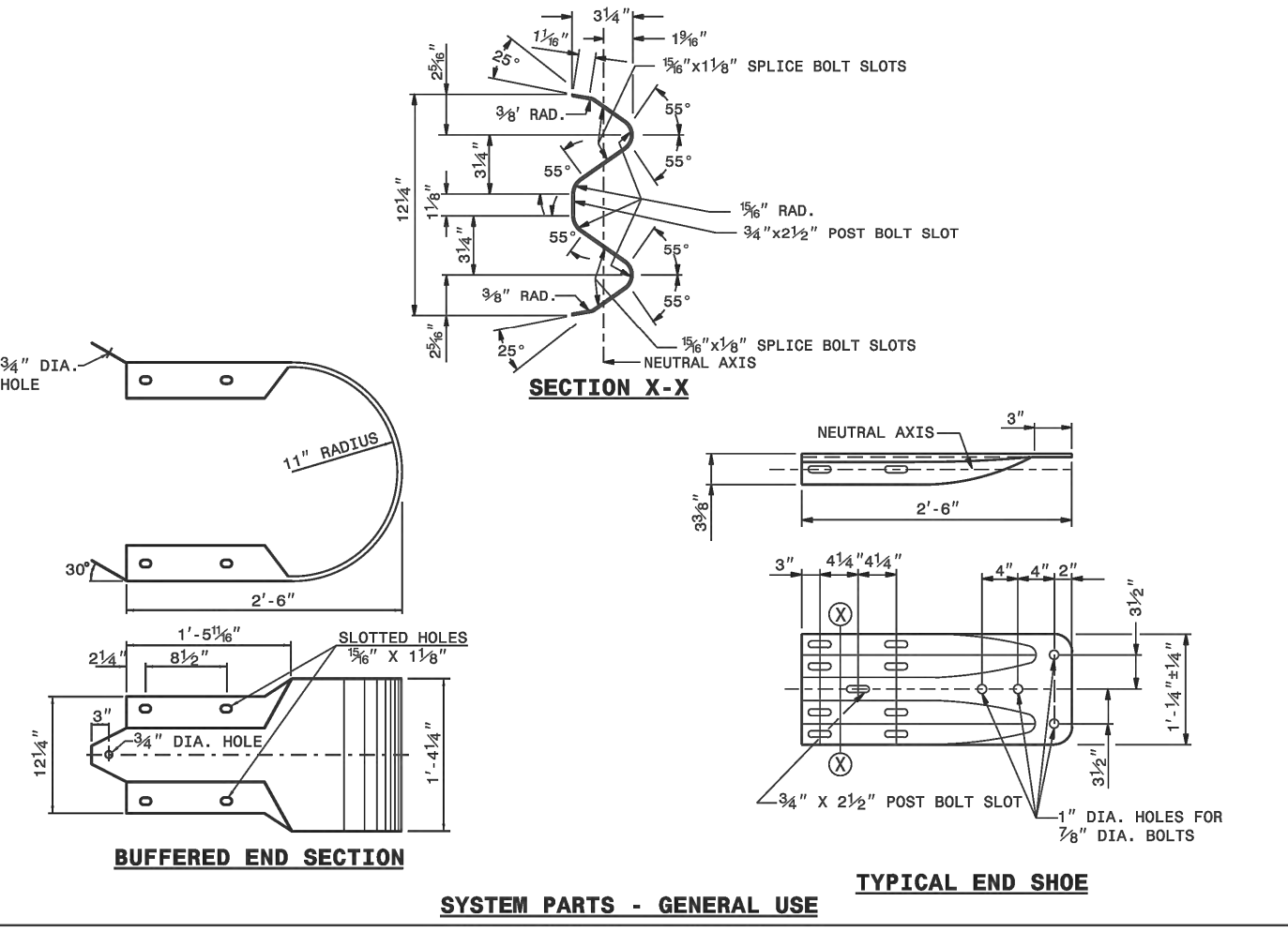


SYSTEM PARTS

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

ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL INSTALLATION**

SHEET 7 OF 8  
**862.02**

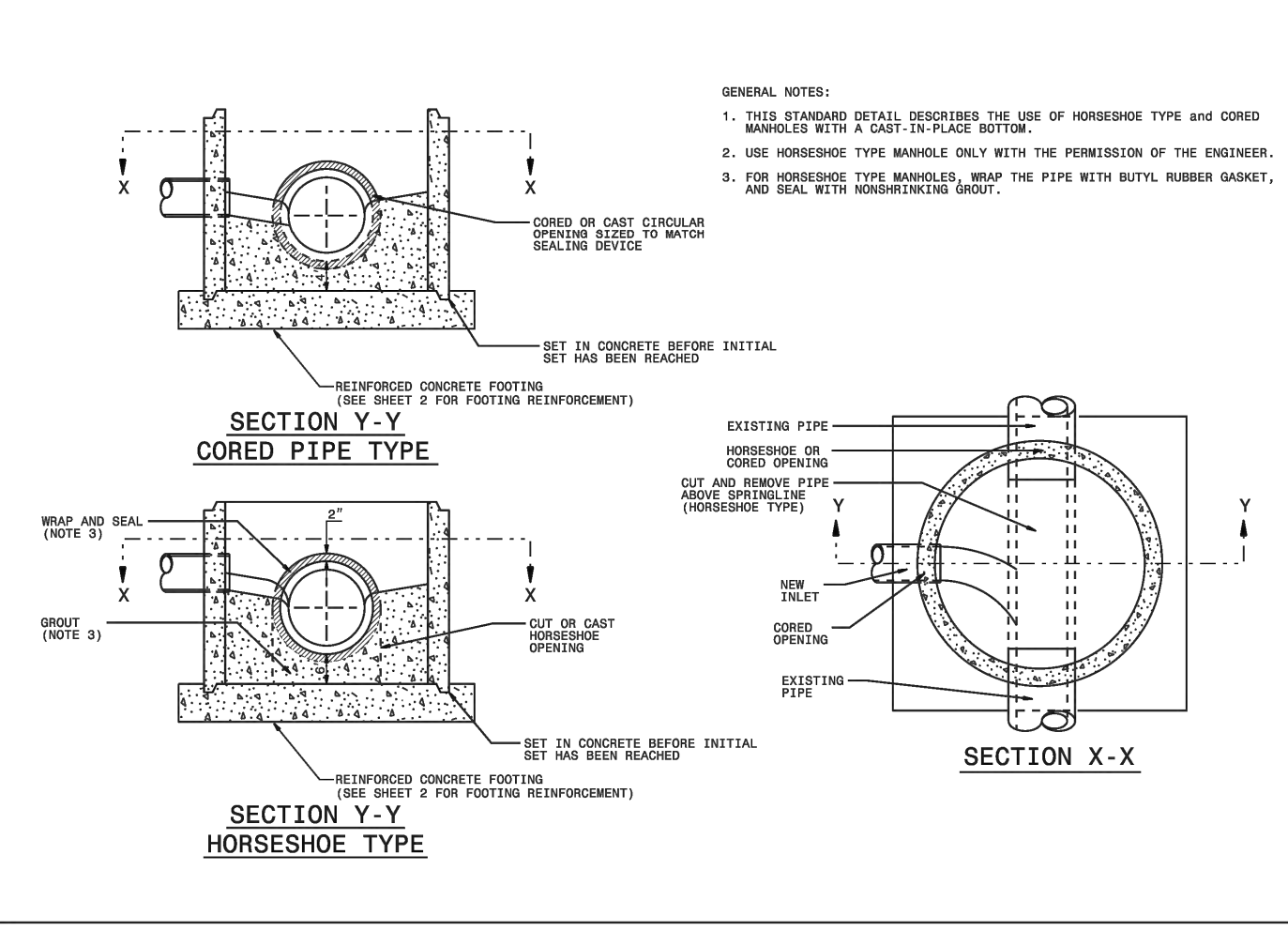


SYSTEM PARTS - GENERAL USE

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

ROADWAY STANDARD DRAWING FOR  
**GUARDRAIL INSTALLATION**

SHEET 8 OF 8  
**862.02**



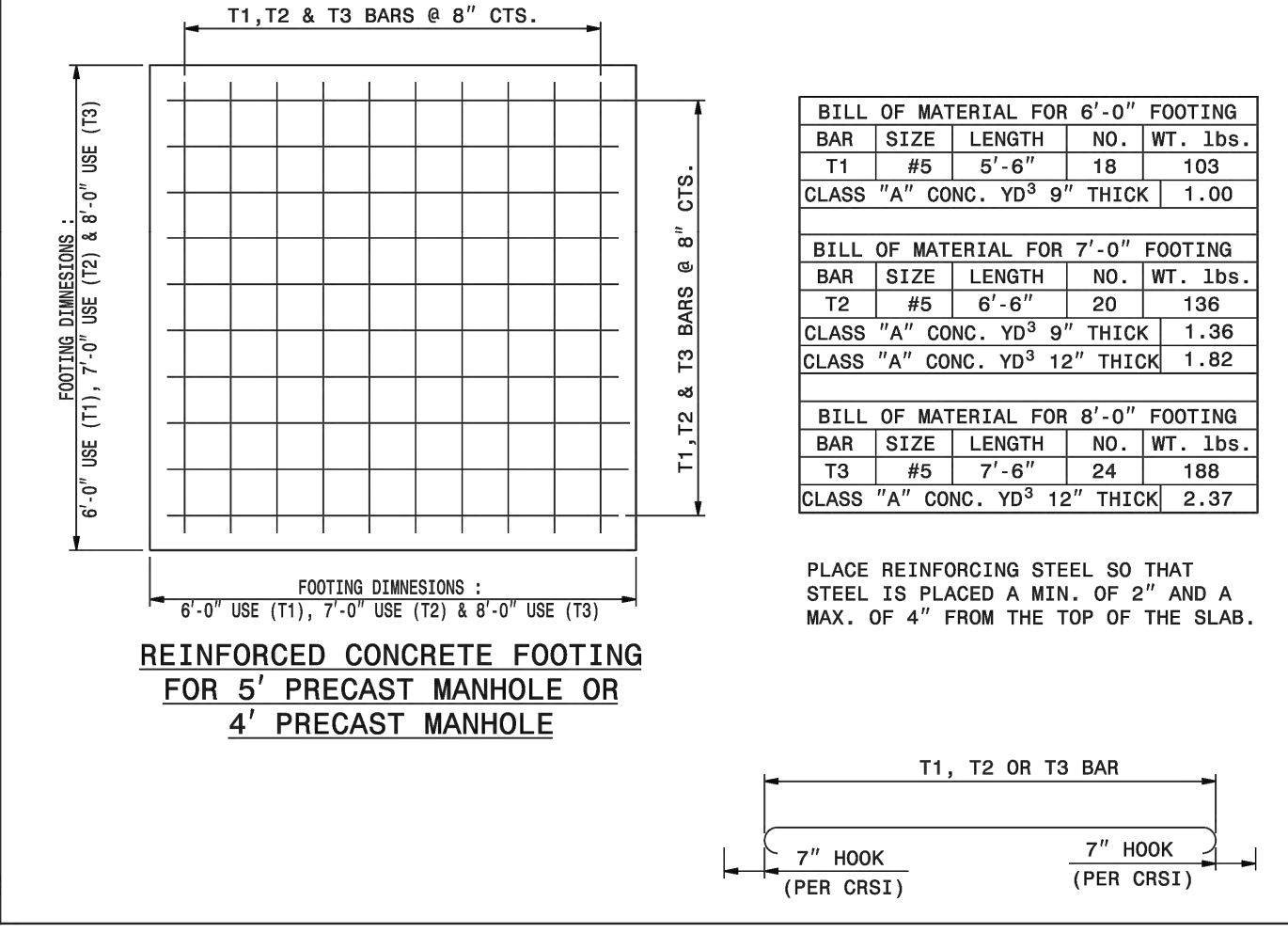
SECTION Y-Y  
CORED PIPE TYPE

SECTION Y-Y  
HORSESHOE TYPE

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

ROADWAY STANDARD DRAWING FOR  
**PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM**

SHEET 1 OF 2  
**1525.06**

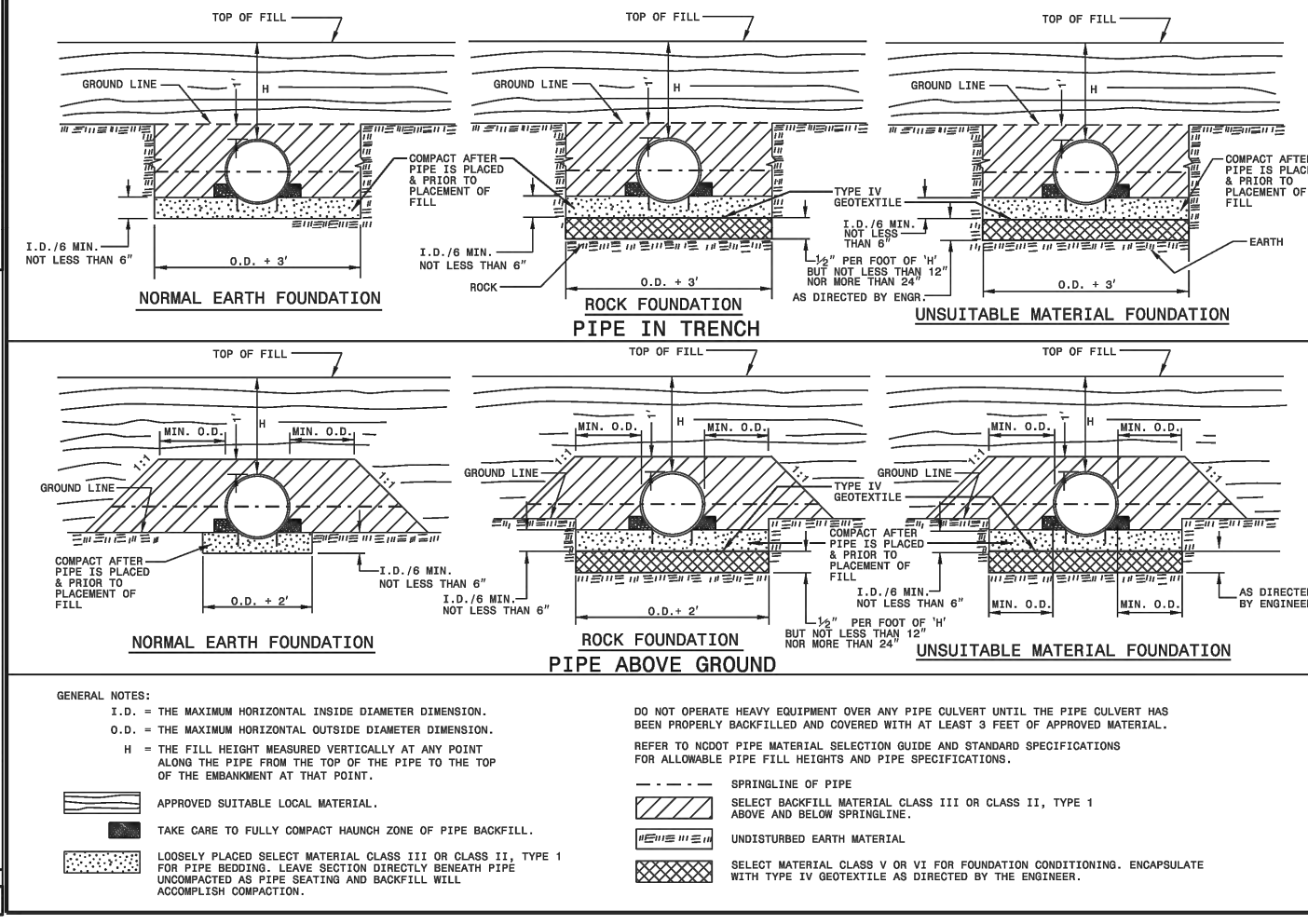


REINFORCED CONCRETE FOOTING FOR 5' PRECAST MANHOLE OR 4' PRECAST MANHOLE

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

ROADWAY STANDARD DRAWING FOR  
**PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM**

SHEET 2 OF 2  
**1525.06**

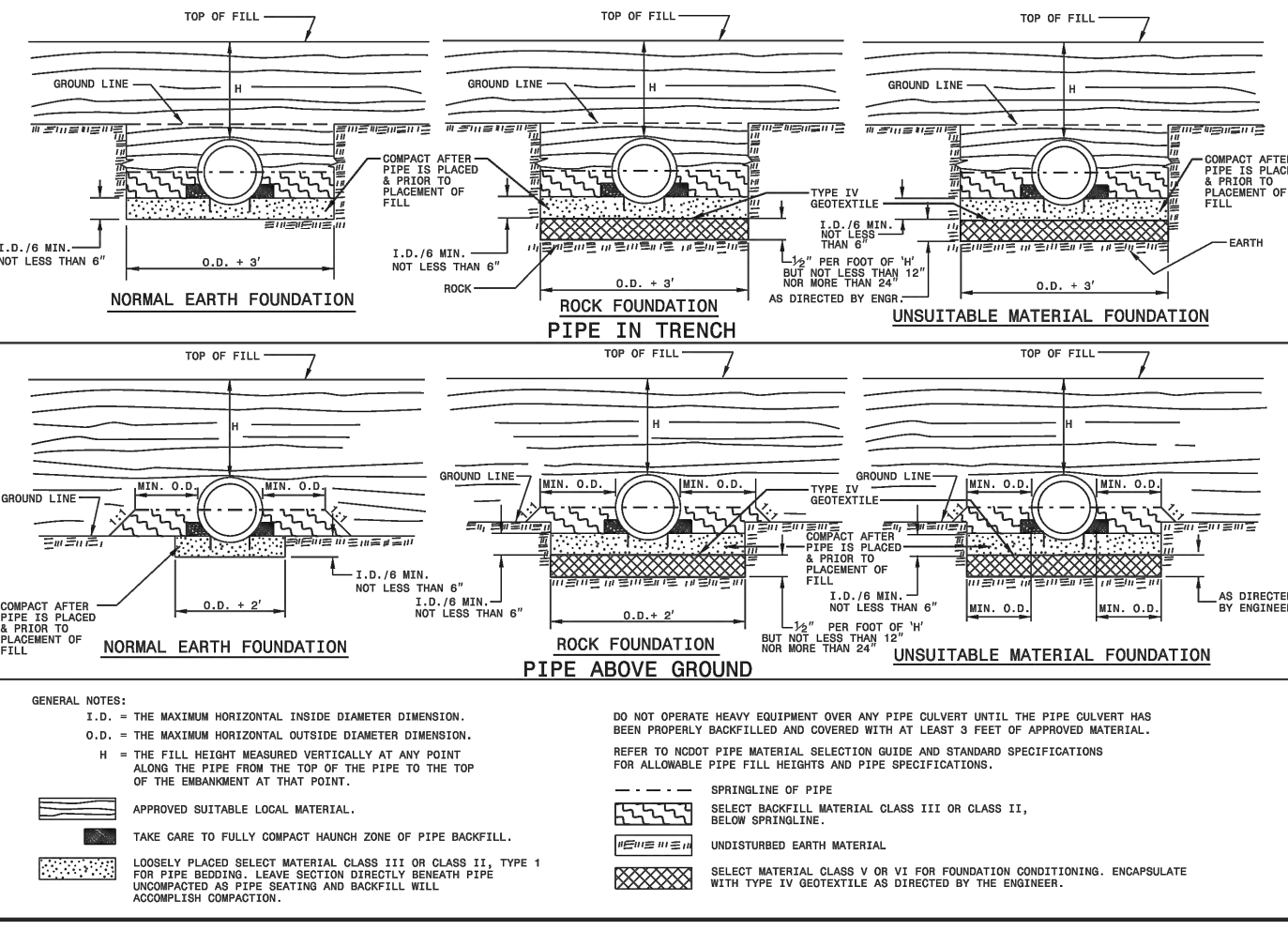


METHOD OF PIPE INSTALLATION

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

ROADWAY STANDARD DRAWING FOR  
**METHOD OF PIPE INSTALLATION**

SHEET 1 OF 2  
**300.01**



METHOD OF PIPE INSTALLATION

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

ROADWAY STANDARD DRAWING FOR  
**METHOD OF PIPE INSTALLATION**

SHEET 2 OF 2  
**300.01**

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Asheville, NC 28801  
828.252.0575  
NC Firm License # C-0459  
mcgillassociates.com

PROFESSIONAL ENGINEER  
MICHAEL A. HANSON  
4/5/2024

NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

NOT TO SCALE

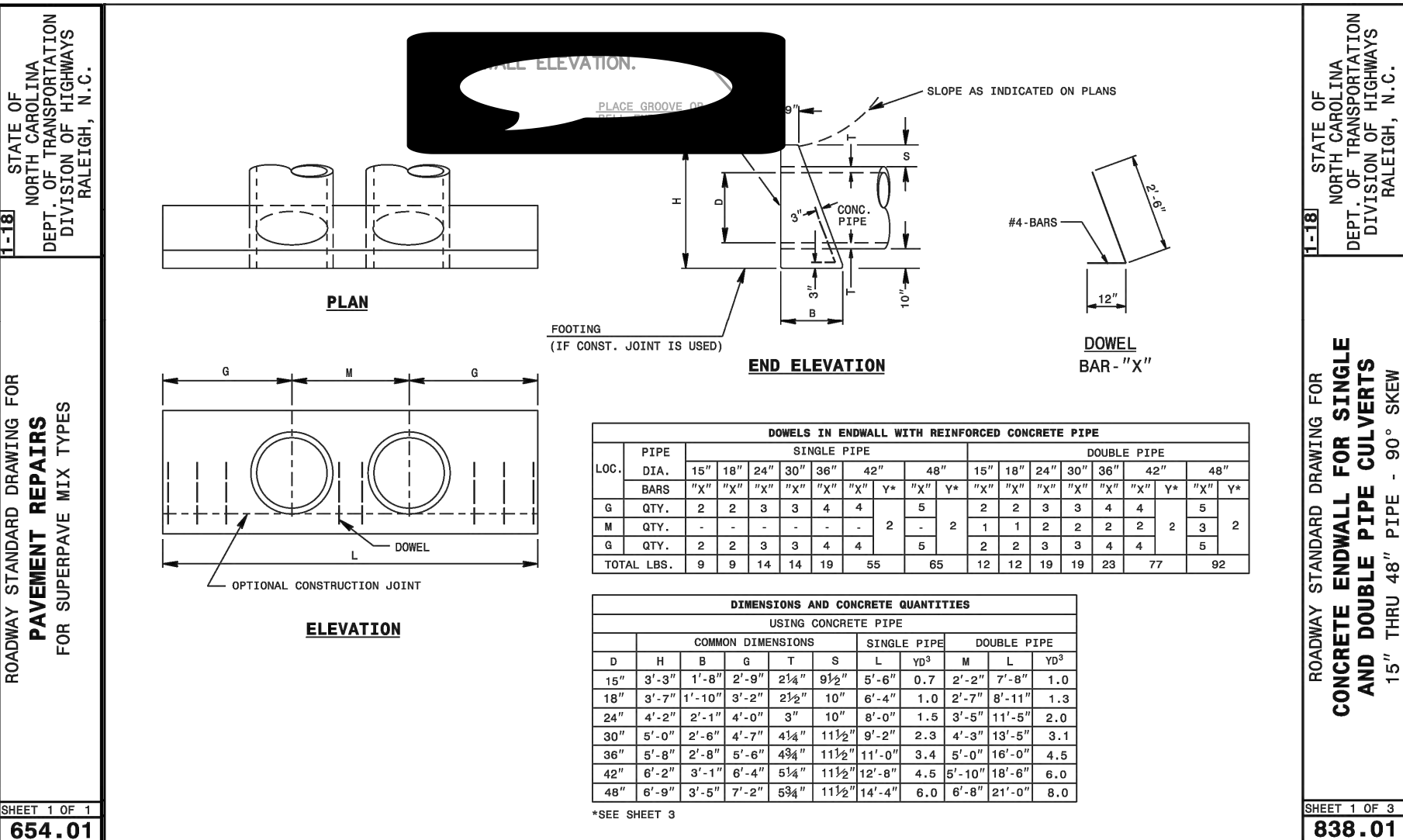
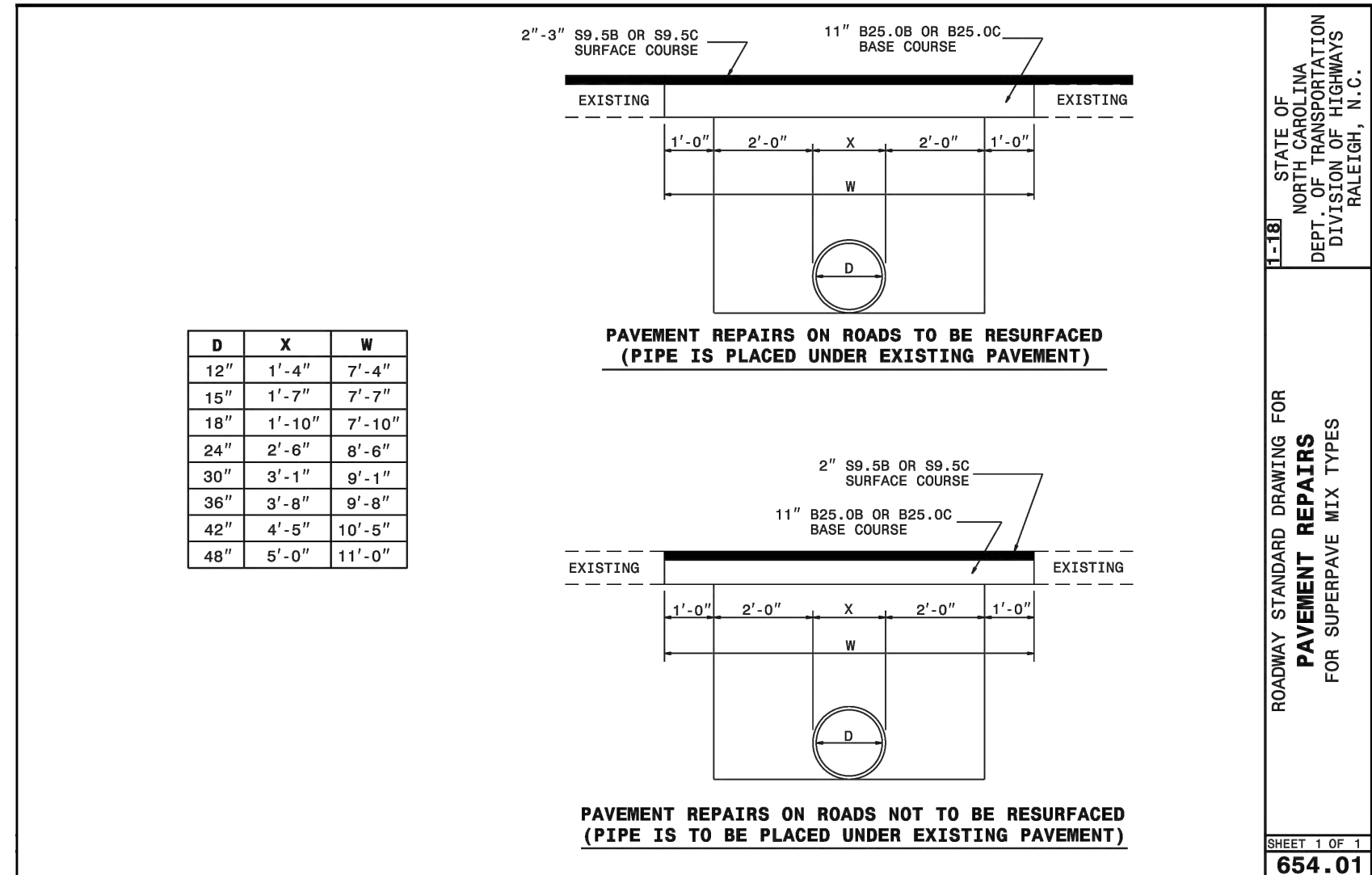
OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

GENERAL DETAILS

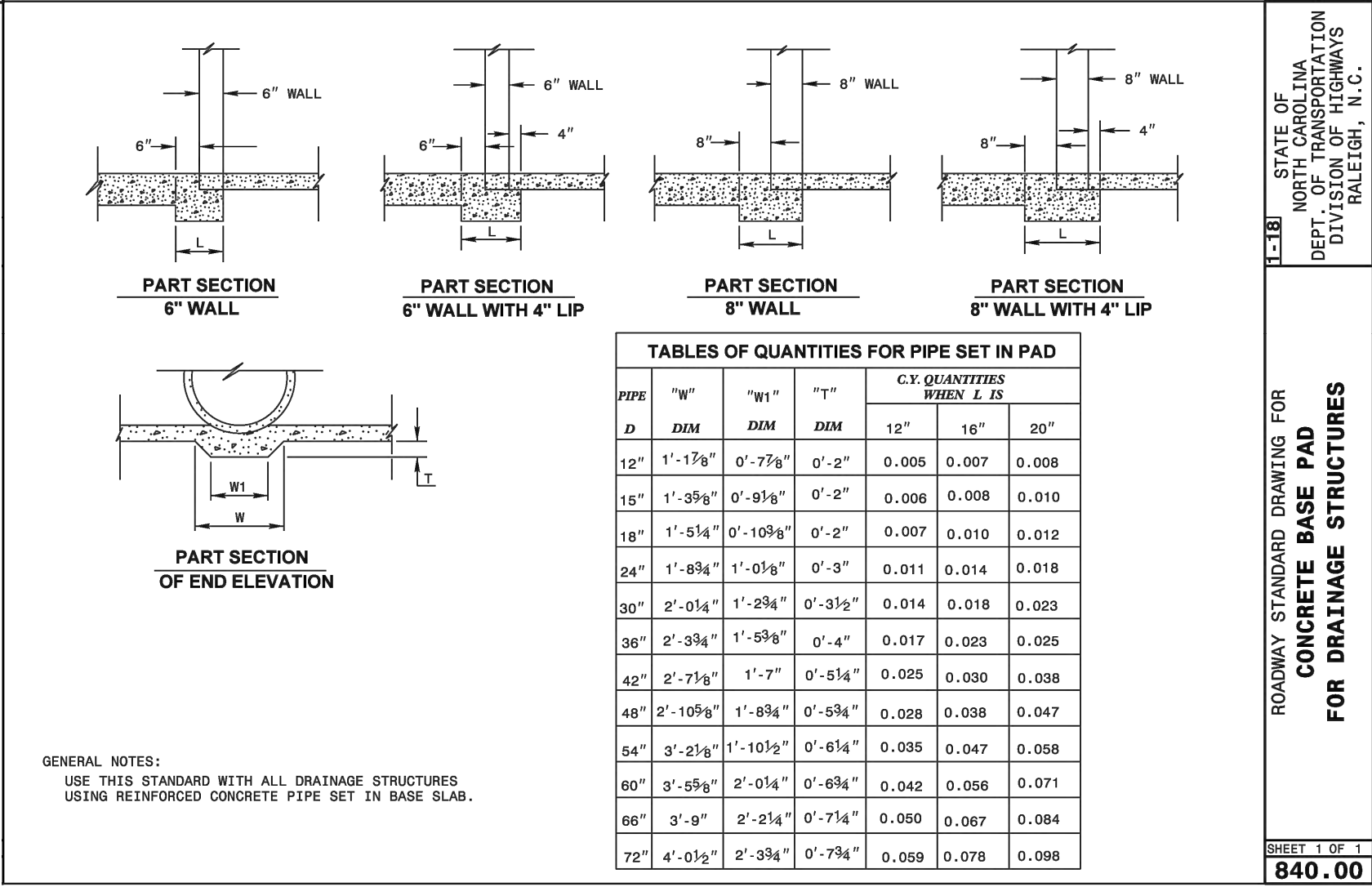
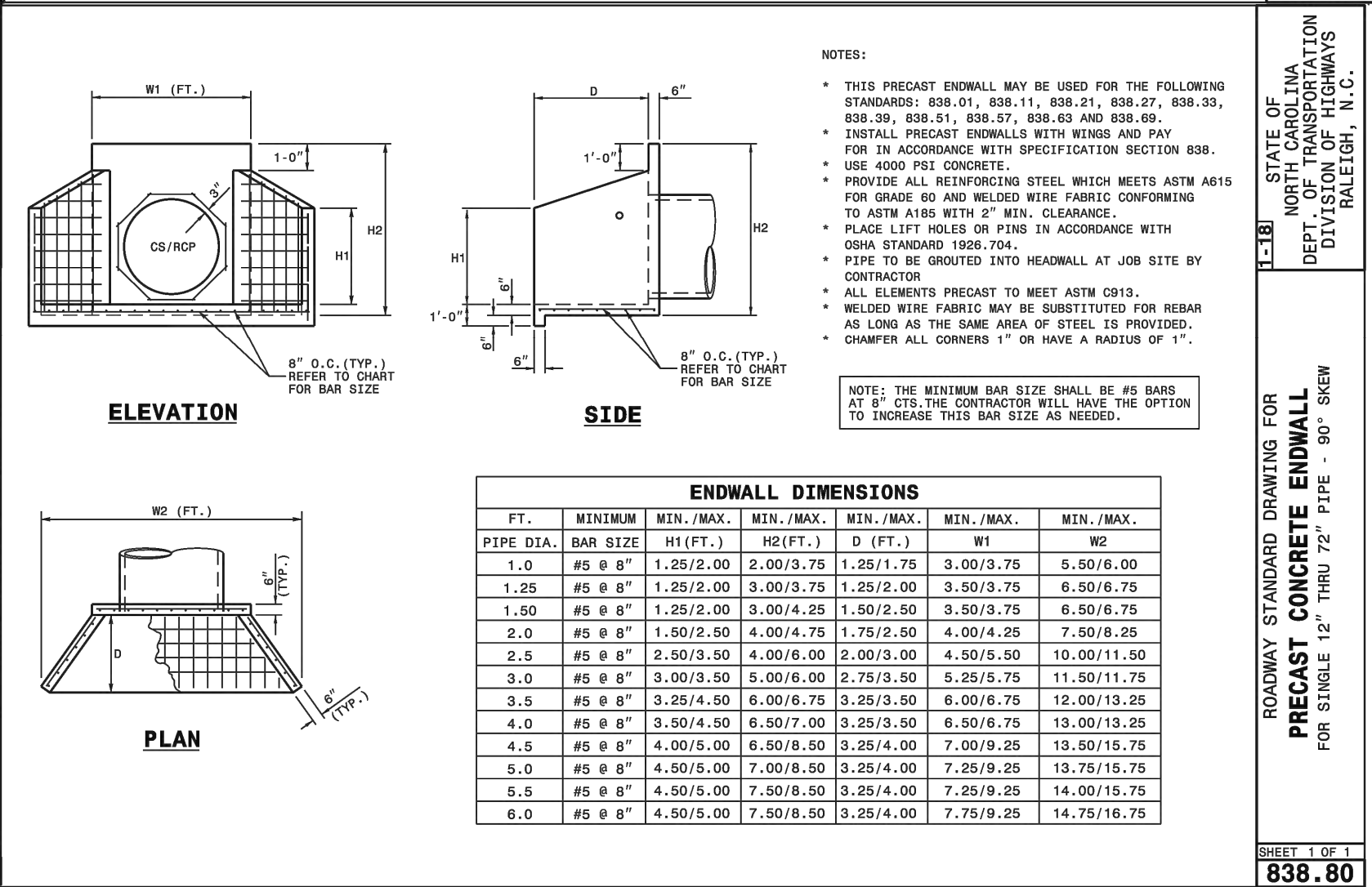
DATE APRIL 2024	PROJECT # VARIES	FUNDING # N/A
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SHEET  
**C-503**

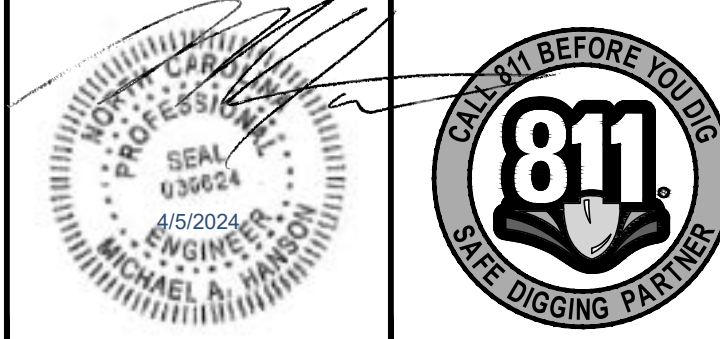
P:\2022\22\_03002-CANTON\NC-RHODA STREET FLOOD DAMAGE REPAIR\DRAWINGS\SHEET\CANTON CULVERT REPLACEMENTS\CULVERT REPLACEMENTS - GENERAL SHEETS.DWG PLOT DATE 4/15/2024 9:00 AM RUSSELL COX



GENERAL NOTES:  
 CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".  
 PLACE 2 #6 "Y" BARS IN THE TOP OF ALL ENDWALL FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL LENGTH.  
 CONSTRUCT BOTTOM SLAB WITH FORMS.  
 DO NOT INTERPRET WALL THICKNESS (T) SHOWN FOR THE THICKNESS ACCEPTABLE, BUT IS USED IN COMPUTING ENDWALL QUANTITIES.  
 WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR "X" DOWELS IN THE BASE AS SHOWN ON PLANS. SPACE BARS APPROXIMATELY ON 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.  
 WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY LEAVE THE POUR ROUGH. USE CLASS "B" CONCRETE.



BID SET  
 -FOR REVIEW PURPOSES ONLY-  
 DO NOT USE FOR CONSTRUCTION



NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
 RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
 HAYWOOD COUNTY, NORTH CAROLINA

NOT TO SCALE

OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON

GENERAL DETAILS

DATE APRIL 2024	PROJECT # VARIES	FUNDING # N/A
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SHEET  
**C-504**

GENERAL NOTES:  
 -FORM TRANSVERSE CONTRACTION JOINTS BY SAWING WITH APPROVED EQUIPMENT  
 -SPACE TRANSVERSE CONTRACTION JOINTS AT INTERVALS OF 15'  
 -USE A DOWEL ASSEMBLY OR OTHER APPROVED DOWEL INSERTION TECHNIQUE IN ALL TRANSVERSE CONTRACTION JOINTS  
 -DOWEL ASSEMBLIES ARE COVERED IN DETAIL 700.03  
 -PROVIDE SMOOTH DOWEL BARS - PROVIDE DEFORMED TIE BARS  
 -WHEN UTILIZING AN EARLY ENTRY SAW, CUT THE JOINT TO A MINIMUM DEPTH OF 3"

**TRANSVERSE CONTRACTION JOINT**

**PLANNED TRANSVERSE CONSTRUCTION JOINT**

SLAB THICKNESS "D"	DOWEL BAR DIA. "D"	DOWEL LENGTH "L"
8" OR LESS	1"	14"
8 1/2" TO 9 1/2"	1 1/8"	16"
10" TO 10 1/2"	1 1/4"	18"
11" AND ABOVE	1 1/2"	18"

GENERAL NOTES:  
 -CONSTRUCT TRANSVERSE CONSTRUCTION JOINTS AT THE END OF EACH DAYS OPERATION (PLANNED JOINT) OR WHEN THE PLACING OF CONCRETE IS SUSPENDED FOR MORE THAN 30 MINUTES (EMERGENCY JOINT)  
 -USE AN APPROVED HEADER AT EMERGENCY JOINTS STD. DWG. 700.04 AND DESIGNED TO PERMIT THE PLACEMENT OF AND CORRECTLY HOLD IN PLACE TIE BARS  
 -USE TIE BARS OF THE SAME DIAMETER AS DOWEL BARS FOR EMERGENCY TRANSVERSE CONSTRUCTION JOINTS  
 -LOCATE PLANNED TRANSVERSE CONSTRUCTION JOINTS AT THE SPACING REQUIRED FOR CONTRACTION JOINTS - USE AN APPROVED METHOD OF INSTALLING DOWELS IN ALL PLANNED TRANSVERSE CONSTRUCTION JOINTS  
 -DO NOT LOCATE EMERGENCY TRANSVERSE CONSTRUCTION JOINTS LESS THAN 6' FROM ANY CONTRACTION JOINT OR PLANNED CONSTRUCTION JOINT  
 -DO NOT PLACE TIE BARS IN LONGITUDINAL JOINTS WITHIN 1'-4" OF A TRANSVERSE JOINT  
 -WHEN UTILIZING AN EARLY ENTRY SAW, CUT THE JOINT TO A MINIMUM DEPTH OF 3"

**LONGITUDINAL CONSTRUCTION JOINT**

**LONGITUDINAL JOINT**

**EMERGENCY TRANSVERSE CONSTRUCTION JOINT**

SLAB THICKNESS "D"	TIE BAR DIA. "D"	TIE BAR LENGTH "L"
8 1/2" OR LESS	1/2"	30"
9" OR ABOVE	5/8"	30"

GENERAL NOTES:  
 -FOR CALCULATION PURPOSES  
 CLASS "B" RIP RAP = 100 LBS./FT<sup>3</sup>  
 CLASS "I" RIP RAP = 105 LBS./FT<sup>3</sup>

**PIPE OUTLET WITH DITCH**

**PIPE OUTLET WITHOUT DITCH**

**STAKING PIN**

**STAKING PIN ALTERNATE**

**ISOMETRIC VIEW**

SLAB THICKNESS	SPACING	UNIT DIMENSIONS
8" - 10"	12"	12" x 12" x 12"
10 1/2" - 12"	18"	18" x 18" x 18"

**SECTION - CONTRACTION**

**SECTION - EXPANSION**

**PARTIAL PLAN CONTRACTION**

**PARTIAL PLAN EXPANSION**

**CROSS SECTIONAL VIEWS**

**SECTION X-X**

**SECTION C-C OR D-D**

**SECTION Y-Y**

PIPE DIA.	SPAN	WIDTH	HEIGHT	REINFORCEMENT BARS "A"		TOP SLAB DIMENSIONS		TOTAL QUANTITIES FOR BOX AND SLAB	DEDUCTIONS FOR ONE PIPE (LBS.)					
				NO.	LENGTH	E	F							
12"	2'-0"	2'-0"	2'-3"	12	2'-9"	3'-0"	3'-0"	0.167	0.167	0.185	22	0.750	0.615	0.024
15"	2'-3"	2'-3"	2'-6"	12	3'-0"	3'-3"	3'-3"	0.196	0.196	0.204	24	0.900	0.629	0.036
18"	2'-6"	2'-6"	2'-9"	14	3'-3"	3'-6"	3'-6"	0.227	0.227	0.232	30	1.050	0.633	0.048
24"	3'-0"	3'-0"	3'-3"	16	3'-9"	4'-0"	4'-0"	0.286	0.286	0.299	40	1.434	0.659	0.065
30"	3'-6"	3'-6"	3'-9"	18	4'-3"	4'-6"	4'-6"	0.375	0.375	0.296	51	1.860	0.692	0.127
36"	4'-0"	4'-0"	4'-3"	20	4'-9"	5'-0"	5'-0"	0.463	0.463	0.333	64	2.341	0.132	0.178
42"	4'-6"	4'-6"	4'-9"	22	5'-3"	5'-6"	5'-6"	0.560	0.560	0.370	77	2.875	0.180	0.245
48"	5'-0"	5'-0"	5'-3"	24	5'-9"	6'-0"	6'-0"	0.658	0.658	0.407	90	3.420	0.235	0.317
54"	5'-6"	5'-6"	5'-9"	26	6'-3"	6'-6"	6'-6"	0.743	0.743	0.407	111	3.920	0.295	0.401
60"	6'-0"	6'-0"	6'-3"	30	7'-3"	7'-6"	7'-6"	1.042	1.042	0.481	145	5.090	0.387	0.495
66"	7'-1"	7'-1"	6'-9"	32	7'-9"	8'-0"	8'-0"	1.142	1.142	0.516	169	5.817	0.444	0.589

**TRANSVERSE HEADER SECTION**

**ISOMETRIC VIEW**

**PLAN**

NOTE: UPON COMPLETION OF FINAL SLAB, REMOVE DOWEL BARS AT SUCH TIME AS CONCRETE HAS CURED ENOUGH TO LEAVE A CAVITY FOR RESETTING AT A LATER DATE.

USE WOOD OR METAL FORM OF SUFFICIENT RIGIDITY TO ADEQUATELY SUPPORT THE EDGES OF THE SLAB.

**LONGITUDINAL SECTION "A-A"**

**LONGITUDINAL OR TRANSVERSE SECTION "A-A"**

**PLAN**

SHOWING LONGITUDINAL OR TRANSVERSE JOINT

**PLAN OF FRAME**

**PLAN OF COVER**

**SECTION B-B**

MINIMUM WEIGHTS - LBS.  
 FRAME - 180  
 COVER - 120  
 TOTAL - 300

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 1 OF 2 **700.01**

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 2 OF 2 **700.01**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 1 OF 2 **700.02**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 2 OF 2 **700.02**

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

ROADWAY STANDARD DRAWING FOR CONCRETE JUNCTION BOX 12" THRU 66" PIPE SHEET 1 OF 1 **840.30**

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

ROADWAY STANDARD DRAWING FOR CONCRETE JUNCTION BOX 12" THRU 66" PIPE SHEET 2 OF 2 **840.30**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 1 OF 1 **700.03**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 2 OF 2 **700.03**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 1 OF 1 **700.04**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 2 OF 2 **700.04**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 1 OF 1 **700.05**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 2 OF 2 **700.05**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 1 OF 1 **840.54**

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

ROADWAY STANDARD DRAWING FOR CONCRETE PAVEMENT JOINTS AND CONTRACTION JOINTS SHEET 2 OF 2 **840.54**

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**mcgill**  
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 mcgillassociates.com

PROFESSIONAL ENGINEER  
 MICHAEL A. HANSON  
 4/6/2024

NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
 RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE  
**TOWN OF CANTON**  
 HAYWOOD COUNTY, NORTH CAROLINA

NOT TO SCALE

GENERAL DETAILS

OFFICE MANAGER M. CATHEY	DESIGNER K. BEESLEY	DATE APRIL 2024	PROJECT # VARIES	FUNDING # N/A
PROJECT MANAGER M. HANSON	REVIEWER M. HANSON			

SHEET  
**C-505**

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

ENGLISH STANDARD DRAWING FOR TEMPORARY LANE CLOSURES

**GENERAL NOTES FOR FLAGGER OPERATIONS**

- REFER TO STD. 1101.11 SHEET 4 FOR SIGN SPACING.
- INSTALL SIGN SPACING TO MAINTAIN THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF THE ROADWAY.
- CONES ARE ALWAYS POSITIONED IN THE UPSTREAM AND DOWNSTREAM TRAFFIC.
- INSTALL SIGN SPACING TO MAINTAIN THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF THE ROADWAY.
- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 15 MINUTES AT A TIME.
- REFER TO ROAD MANUAL, CHAPTER 8, FOR FLAGGER CONTROL, RESTRICTIONS, AND PROCEDURES.

**GENERAL NOTES FOR PILOT CAR OPERATIONS**

- USE PILOT CAR WHEN DIRECTED BY THE ENGINEER.
- IF A PILOT CAR IS USED, IT SHALL BE OPERATED BY THE ENGINEER OR A PERSON DESIGNATED BY THE ENGINEER.
- CONES ARE ALWAYS POSITIONED IN THE UPSTREAM AND DOWNSTREAM TRAFFIC.
- INSTALL SIGN SPACING TO MAINTAIN THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF THE ROADWAY.
- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 15 MINUTES AT A TIME.
- REFER TO ROAD MANUAL, CHAPTER 8, FOR FLAGGER CONTROL, RESTRICTIONS, AND PROCEDURES.

LEGEND

- FLASHER
- CONES
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 3  
1101.02

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

ENGLISH STANDARD DRAWING FOR TEMPORARY ROAD CLOSURES

**GENERAL NOTES**

- IF NECESSARY USE THIS STD. FOR TWO LANE, TWO-WAY, AND MULTILANE DIVIDED AND UNDIVIDED ROADWAYS.
- INSTALLATION OF DETOUR ROUTING PANELS, TEMPORARY ROUTE MARKERS, DIRECTIONAL SIGNS, AND ANY NECESSARY INDICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS SHALL BE MADE BY OTHER STATE OR COUNTY PERSONNEL UNLESS OTHERWISE SPECIFIED IN THE PLAN. PROVIDE A WARNING SIGN TO ADVISE TRAFFIC OF THE ROAD CLOSURE.
- INSTALL SIGN SPACING TO MAINTAIN THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF THE ROADWAY.
- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 15 MINUTES AT A TIME.
- REFER TO ROAD MANUAL, CHAPTER 8, FOR FLAGGER CONTROL, RESTRICTIONS, AND PROCEDURES.

LEGEND

- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 3  
1101.03

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

ENGLISH STANDARD DRAWING FOR TEMPORARY ROAD CLOSURES

**GENERAL NOTES**

- IF NECESSARY USE THIS STD. FOR CROSS-Roads AS SHOWN ON FOR "T" INTERSECTIONS ON THE ROAD, THE 90° AND MULTILANE DIVIDED AND DIVIDED ROADWAYS.
- INSTALLATION OF DETOUR ROUTING PANELS, TEMPORARY ROUTE MARKERS, DIRECTIONAL SIGNS, AND ANY NECESSARY INDICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS SHALL BE MADE BY OTHER STATE OR COUNTY PERSONNEL UNLESS OTHERWISE SPECIFIED IN THE PLAN. PROVIDE A WARNING SIGN TO ADVISE TRAFFIC OF THE ROAD CLOSURE.
- INSTALL SIGN SPACING TO MAINTAIN THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF THE ROADWAY.
- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 15 MINUTES AT A TIME.
- REFER TO ROAD MANUAL, CHAPTER 8, FOR FLAGGER CONTROL, RESTRICTIONS, AND PROCEDURES.

LEGEND

- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 3  
1101.03

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

ENGLISH STANDARD DRAWING FOR STATIONARY WORK ZONE SIGNS

**GENERAL NOTES**

- CONNECTIONS SHALL BE MADE BY THE SHOP AND SHALL BE MADE TO THE REQUIREMENTS OF THE MANUFACTURER. USE THE TIRE BALLAST AS SPECIFIED BY THE MANUFACTURER. DO NOT PLACE BALLAST ON TOP OF THE SIGN.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-REFLECTIVE ORNAMENTATION. SHOW THE LETTERS AND NUMBERS USING A NON-REFLECTIVE COLOR AND NOT OVER 1/4" IN HEIGHT.
- USE TYPE 2 OR HIGHER HIGH INTENSITY PNEUMATIC SHEETING.
- SEE THE STATEMENT'S APPROVED PRODUCT LIST AT <http://www.ncdot.gov/procurement/procurementproducts>.
- REFER TO THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR ADDITIONAL INFORMATION.

SHEET 1 OF 3  
1110.01

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

ENGLISH STANDARD DRAWING FOR STATIONARY WORK ZONE SIGNS

**GENERAL NOTES**

- ALL TRAFFIC CONTROL DEVICES, INCLUDING BREAKAWAY SYSTEMS FOR BRIDGE MOUNTED SIGN SUPPORTS, COMPLY WITH ALL ROAD SUPPORT AND SIGN SUPPORT REQUIREMENTS AND SHALL BE APPROVED BY THE DEPARTMENT. ALL APPROVED TRAFFIC CONTROL DEVICES ARE ON THE DEPARTMENT'S WEB SITE AT: <http://www.ncdot.gov/procurement/procurementproducts>.
- INSTALL THE BREAKAWAY SYSTEM TO FUNCTION PROPERLY IN ACCORDANCE WITH THE CONNECTION OF TRAFFIC ALIGNED TO THE SIGN.
- FOR PERFORATED SQUARE TRUSSING BREAKAWAY SYSTEMS, FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR ANCHOR BOLT AND POST ATTACHMENT REQUIREMENTS.

**3 LB. U-CHEANNEL SPLICING REQUIREMENTS**

- WELD SIGN IS MOUNTED AT THE END OF PROJECT BEHIND THE BRIDGE SUPPORT (STAY).
- WELD SPLICING IS U-CHEANNEL SUPPORT. INSTALL THE BRIDGE SUPPORT (STAY) APPROXIMATELY 36" TO 48" INTO THE GROUND WHILE LEAVING NO MORE THAN 4" ABOVE THE EXISTING GROUND ELEVATION. REMOVE BRIDGE BOLT FROM AROUND THE BRIDGE SUPPORT (STAY). TO PREVENT HOLES TO THE SOIL FOR THE BRIDGEWAY SYSTEM. ONCE THE BRIDGEWAY SYSTEM IS TIGHTENED, REPLACE THE SOIL AND TRAMP.
- MINIMAL LENGTH OF THE BRIDGEWAY SYSTEM IS 6". BOLTS MUST BE 4" AWAY FROM THE BRIDGEWAY SYSTEM TO THE BACK OF THE BRIDGEWAY SYSTEM (STAY) WITH THE APPROPRIATE WIDENING SUPPLIED BY THE MANUFACTURER OF THE BRIDGEWAY SYSTEM.
- MINIMAL LENGTH OF THE BRIDGEWAY SYSTEM IS 6". BOLTS MUST BE 4" AWAY FROM THE BRIDGEWAY SYSTEM TO THE BACK OF THE BRIDGEWAY SYSTEM (STAY) WITH THE APPROPRIATE WIDENING SUPPLIED BY THE MANUFACTURER OF THE BRIDGEWAY SYSTEM.

SHEET 2 OF 3  
1110.01

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

ENGLISH STANDARD DRAWING FOR STATIONARY WORK ZONE SIGNS

**GENERAL NOTES**

- POSTS SHALL BE 2 1/2" X 2 1/2" 10 GAUGE STEEL.
- ANCHORS SHALL BE 3" X 7" GAUGE STEEL.
- CONNECTIONS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

SHEET 1 OF 3  
1110.01

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

ENGLISH STANDARD DRAWING FOR PORTABLE WORK ZONE SIGNS

**GENERAL NOTES**

- CONNECTIONS SHALL BE MADE BY THE SHOP AND SHALL BE MADE TO THE REQUIREMENTS OF THE MANUFACTURER. USE THE TIRE BALLAST AS SPECIFIED BY THE MANUFACTURER. DO NOT PLACE BALLAST ON TOP OF THE SIGN.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-REFLECTIVE ORNAMENTATION. SHOW THE LETTERS AND NUMBERS USING A NON-REFLECTIVE COLOR AND NOT OVER 1/4" IN HEIGHT.
- USE TYPE 2 OR HIGHER HIGH INTENSITY PNEUMATIC SHEETING.
- SEE THE STATEMENT'S APPROVED PRODUCT LIST AT <http://www.ncdot.gov/procurement/procurementproducts>.
- REFER TO THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR ADDITIONAL INFORMATION.

SHEET 1 OF 3  
1110.02

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

ENGLISH STANDARD DRAWING FOR DRUM

**GENERAL NOTES**

- CONNECTIONS SHALL BE MADE BY THE SHOP AND SHALL BE MADE TO THE REQUIREMENTS OF THE MANUFACTURER. USE THE TIRE BALLAST AS SPECIFIED BY THE MANUFACTURER. DO NOT PLACE BALLAST ON TOP OF THE SIGN.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-REFLECTIVE ORNAMENTATION. SHOW THE LETTERS AND NUMBERS USING A NON-REFLECTIVE COLOR AND NOT OVER 1/4" IN HEIGHT.
- USE TYPE 2 OR HIGHER HIGH INTENSITY PNEUMATIC SHEETING.
- SEE THE STATEMENT'S APPROVED PRODUCT LIST AT <http://www.ncdot.gov/procurement/procurementproducts>.
- REFER TO THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR ADDITIONAL INFORMATION.

SHEET 1 OF 3  
1130.01

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

ENGLISH STANDARD DRAWING FOR CONES

**GENERAL NOTES**

- ACHIEVE BALLASTING BY USING SPECIAL WEIGHTED SANDS SUCH AS SAND AND RUBB, DOORING CONES, OR SANDS THAT CAN BE FILLED WITH BALLAST. REVISIT FREQUENT OF THE HEIGHT OF THE CONE MUST BE IN THE SAND. USE BALLASTS THAT DO NOT PRESENT A HAZARDOUS SITUATION.
- SEE THE DEPARTMENT'S APPROVED PRODUCTS LIST AT <http://www.ncdot.gov/procurement/procurementproducts>.
- USE TYPE 2 OR HIGHER HIGH INTENSITY PNEUMATIC SHEETING.

SHEET 1 OF 3  
1135.01

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

ENGLISH STANDARD DRAWING FOR BARRICADES

**GENERAL NOTES**

- RETRACTABLE YELLOW FLAG BARRICADES SHALL BE USED TO CONTROL TRAFFIC APPROACHING FROM THE REVERSE DIRECTION OF TRAVEL.
- BARRICADES SHALL BE LIMITED TO A MAXIMUM LENGTH OF 12 FEET UNLESS SHOWN OTHERWISE ON THE PLAN.
- ONLY MOIST APPROACHES AND BACKS OF SIGNS MAY BE MOUNTED ON THE BARRICADES. SIGN POSTS TO BARRICADES SHALL BE PROHIBITED. SIGN POSTS SHALL BE MOUNTED ON THE BARRICADES.
- CONES SHALL BE MOUNTED A MINIMUM OF 1 FOOT FROM THE GROUND TO THE BOTTOM OF THE SIGN BRACKET. CONES SHALL BE MOUNTED ON THE GROUND OR BRACKETED BY THE BARRICADE.
- USE TYPE 2 OR HIGHER HIGH INTENSITY PNEUMATIC SHEETING ON ALL SIGNS ON THE BARRICADES.
- CONES SHALL BE MOUNTED ON THE BARRICADES. SIGN POSTS SHALL BE MOUNTED ON THE BARRICADES.
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SHEET 1 OF 3  
1145.01

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

ENGLISH STANDARD DRAWING FOR FLAGGING DEVICES

**GENERAL NOTES**

- USE HAND SIGNALING DEVICES SUCH AS STOP-SLOW PADDLES, FLASHLIGHTS TO CONTROL TRAFFIC. USE STOP-SLOW PADDLES AS THE PRIMARY DEVICE.
- FABRICATE STOP-SLOW PADDLES FROM BRIT MET OR OTHER LIGHT WEIGHT RIGID MATERIAL. USE A RIGID HANDLE OF SUFFICIENT LENGTH SO THE PADDLE IS HELD AT 7 FEET ABOVE GROUND LEVEL.
- PRODUCE STOPPING SIGHT DISTANCE TO EACH FLAGGER STATION (REFER TO STD. 1101.11 SHEET 2).
- ILLUMINATE FLAGGER STATIONS DURING NIGHT OPERATIONS.
- FOLLOW FLAGGER QUALIFICATIONS AND METHODS OF HAND-SIGNALING PROCEDURES IN ACCORDANCE WITH PART 11 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL FLAGGERS MUST BE CERTIFIED BY AN APPROVED SOURCE.

SHEET 1 OF 3  
1150.01

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

ENGLISH STANDARD DRAWING FOR FLAGGING DEVICES

**GENERAL NOTES**

- USE HAND SIGNALING DEVICES SUCH AS STOP-SLOW PADDLES, FLASHLIGHTS TO CONTROL TRAFFIC. USE STOP-SLOW PADDLES AS THE PRIMARY DEVICE.
- FABRICATE STOP-SLOW PADDLES FROM BRIT MET OR OTHER LIGHT WEIGHT RIGID MATERIAL. USE A RIGID HANDLE OF SUFFICIENT LENGTH SO THE PADDLE IS HELD AT 7 FEET ABOVE GROUND LEVEL.
- PRODUCE STOPPING SIGHT DISTANCE TO EACH FLAGGER STATION (REFER TO STD. 1101.11 SHEET 2).
- ILLUMINATE FLAGGER STATIONS DURING NIGHT OPERATIONS.
- FOLLOW FLAGGER QUALIFICATIONS AND METHODS OF HAND-SIGNALING PROCEDURES IN ACCORDANCE WITH PART 11 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL FLAGGERS MUST BE CERTIFIED BY AN APPROVED SOURCE.

SHEET 1 OF 3  
1150.01

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NO.	DATE	BY	DESCRIPTION

CANTON CULVERT PACKAGE  
RHODA STREET, SKYLINE DRIVE, MEADOWBROOK DRIVE

# TOWN OF CANTON

HAYWOOD COUNTY, NORTH CAROLINA

NOT TO SCALE

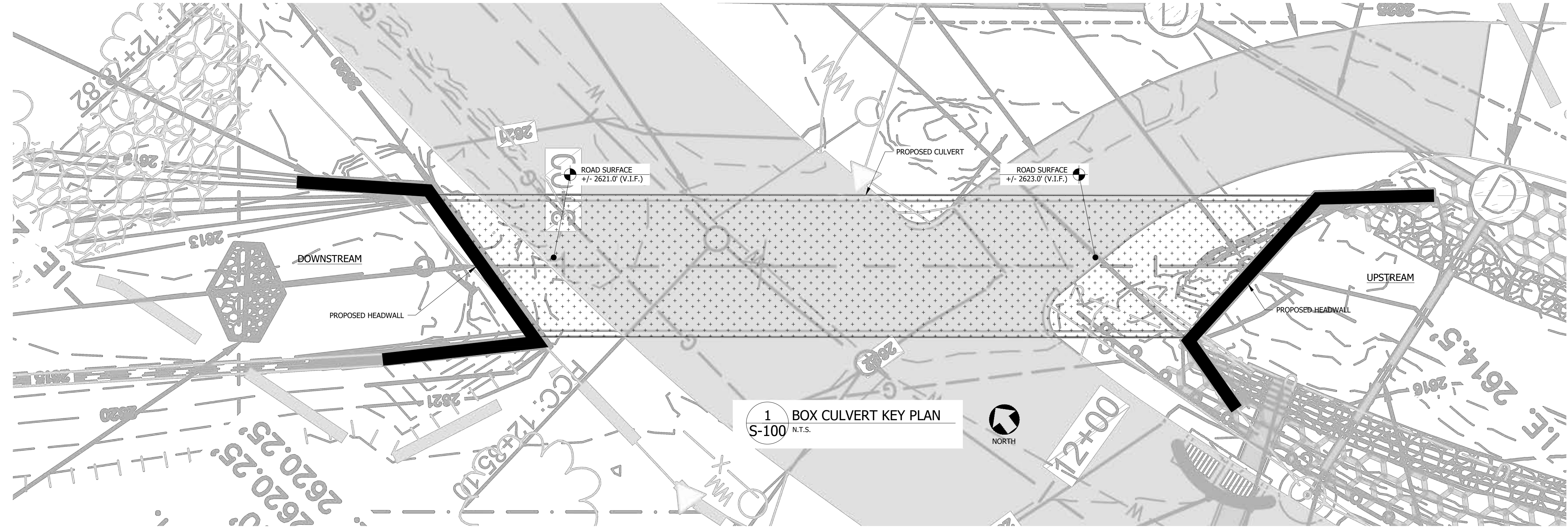
OFFICE MANAGER	DESIGNER
M. CATHEY	K. BEESLEY
PROJECT MANAGER	REVIEWER
M. HANSON	M. HANSON

STANDARD TRAFFIC CONTROL DETAILS

DATE	PROJECT #	FUNDING #
MARCH 2024	VARIES	N/A

SHEET  
C-506





1 BOX CULVERT KEY PLAN  
S-100 N.T.S.

STRUCTURAL NOTES

A. GENERAL

- THE PROVIDED DRAWINGS ARE LIMITED TO THE ITEMS SPECIFIED HEREIN. NO OPINION IS OFFERED, AND NONE SHOULD BE INFERRED REGARDING OTHER ASPECTS OF THE STRUCTURE OR THE STRUCTURES TAKEN AS A WHOLE. ANY ASSOCIATED REMEDIES EXPRESSED OR REFERENCED ARE EXCLUSIVE TO THE ITEMS SPECIFIED HEREIN. NO WARRANTY IS EXPRESSED OR IMPLIED.
- THE DRAWINGS CONTAINED HEREIN, IN-WHOLE OR IN-PART, REMAIN THE PROPERTY OF MEDLOCK & ASSOCIATES ENGINEERING, PA. THE DRAWINGS MAY NOT BE USED, TRANSFERRED OR REPRODUCED FOR ANY PROJECT OTHER THAN THAT SPECIFIED WITHIN THE DRAWINGS WITHOUT WRITTEN CONSENT FROM MEDLOCK & ASSOCIATES ENGINEERING, PA.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE, AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
- PROTECTION AND SAFETY: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL COMPLY THE PROTECTION AND SAFETY REQUIREMENTS OF THE STATE OF NORTH CAROLINA STATE BUILDING CODE, FEDERAL LAWS AND ALL LOCAL REGULATIONS. THE ENGINEER OR HIS EMPLOYEES ARE NOT RESPONSIBLE FOR SAFETY AND PROTECTION PROCEDURES ON THIS PROJECT.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, LEVELS AND SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. THEY SHALL REPORT ANY ERRORS, DISCREPANCIES OR INCONSISTENCIES TO THE ENGINEER PRIOR TO COMMENCING WORK. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL LAYOUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND SHALL BE RESPONSIBLE FOR ALL MEASUREMENTS AND ELEVATIONS IN CONNECTION WITH THEIR WORK.
- IN THE EVENT ANY OMISSIONS OR ERRORS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF SUCH ERRORS OR OMISSIONS PRIOR TO PROCEEDING WITH WORK WHICH MAY BE IN QUESTION. IF THE GENERAL CONTRACTOR OR ANY SUBCONTRACTORS FAIL TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
- NO CHANGES TO THE INFORMATION SHOWN ON THE DRAWINGS OR SUBSTITUTIONS OF MATERIALS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- DESIGN INFORMATION SHOWN ON THE DRAWINGS PROVIDE OVERALL DIMENSIONAL PARAMETERS AND DESCRIBE ELEMENTS TO BE CONSTRUCTED AND ARE IN-PART DIAGRAMMATIC. THE DRAWINGS ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.
- NO SHOP DRAWINGS SHALL BE SUBMITTED FOR STRUCTURAL ENGINEER REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. THE STRUCTURAL ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS SHALL BE RECTIFIED BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY STRUCTURAL ENGINEER REGARDLESS IF WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.
- THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THE INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED. A COPY OF ALL STRUCTURAL SUBMITTALS WILL BE RETAINED FOR RECORD KEEPING PURPOSES ONLY. WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE MATERIAL ADJOINS AN IN-PLACE MATERIAL, THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO COMPLETE SHOP DRAWINGS AND INSTALLATION. REPORT ANY DISCREPANCIES EXCEEDING 3% BETWEEN FIELD MEASURED DIMENSIONS AND SCALED DRAWING DIMENSIONS TO ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- DEMOLITION SHALL INCLUDE REMOVAL, TRANSPORT AND DISPOSAL OF ALL WASTE MATERIAL RELATED TO THE CONSTRUCTION OF THE PROJECT TO AN APPROVED FACILITY.
- AS SOIL AND PWR HAVE LARGELY DIFFERENT PROPERTIES A GEOTECHNICAL EVALUATION OF THE FINAL EXCAVATION SHALL BE PERFORMED FOR POSSIBLE DIFFERENTIAL SETTLEMENT.

B. CONCRETE AND REINFORCING STEEL

- WORK SHALL CONFORM TO THE LATEST EDITIONS OF ACI SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318). CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH (f<sub>c</sub>) AT 28 DAYS:
- ALL EXTERIOR CONCRETE SHALL CONTAIN ENTRAINED AIR IN ACCORDANCE WITH ACI 318, TABLE 4.4.1.
- CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCEMENT DESIGNATED AS CONTINUOUS SHALL LAP 57 BAR DIAMETER UNLESS NOTED OTHERWISE
- SUPPORT REINFORCING MATERIAL ON SUITABLE CHAIRS OR CEMENTITIOUS BLOCKS SO AS NOT TO DISPLACE DURING PLACEMENT OF CONCRETE.
- PROVIDE 3" MINIMUM CONCRETE COVER TO REINFORCEMENT WHEN CONCRETE IS PLACED AGAINST EARTH, 1 1/2" MINIMUM COVER ELSEWHERE UNLESS OTHERWISE NOTED.
- CONCRETE SHALL BE CURED FOR 7 DAYS OR CURED BY USING AN APPROVED MEMBRANE CURING COMPOUND.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD THE TYPE AND LOCATION OF ALL EMBEDDED ITEMS INCLUDING ANCHOR BOLTS, PIPES, SLEEVES, CONDUIT, ETC., PRIOR TO PLACING CONCRETE.
- REINFORCEMENT NOT FULLY ENCASED BY CONCRETE SHALL BE EPOXY COATED.

C. DESIGN LOADS

CONCRETE: CONCRETE SHALL BE 5,000 PSI NCDOT CLASS AA  
 SOIL COEF.: 125 PCF  
 LOADING: AASHTO HL-93 LOADING

- THE STRUCTURAL CONTRACT DRAWINGS SHALL NOT BE USED AS TEMPLATES FOR SHOP DRAWINGS UNLESS EXPLICIT APPROVAL IS PROVIDED BY THE STRUCTURAL ENGINEER IN ADVANCE OF ANY SUBMITTALS. SUBMITTALS RECEIVED THAT HAVE USED THE DRAWINGS WITHOUT APPROVAL WILL BE REJECTED WITHOUT REVIEW.

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**mcgill**

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828.252.0575  
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03-12-24

NO.	DATE	BY	DESCRIPTION

RHODA STREET  
CULVERT REPLACEMENT AND FLOOR DAMAGE REPAIR  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

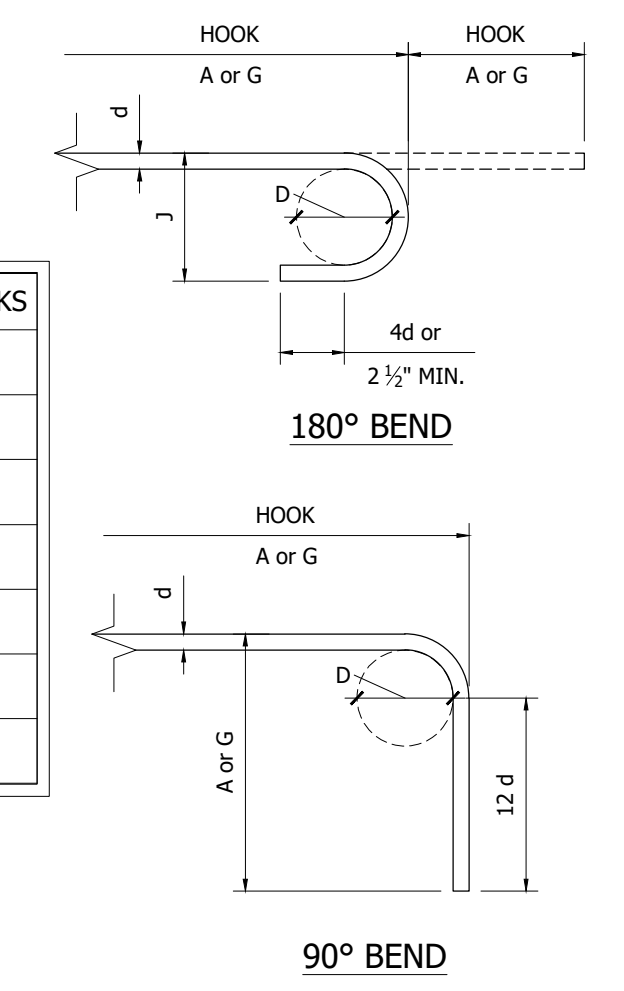
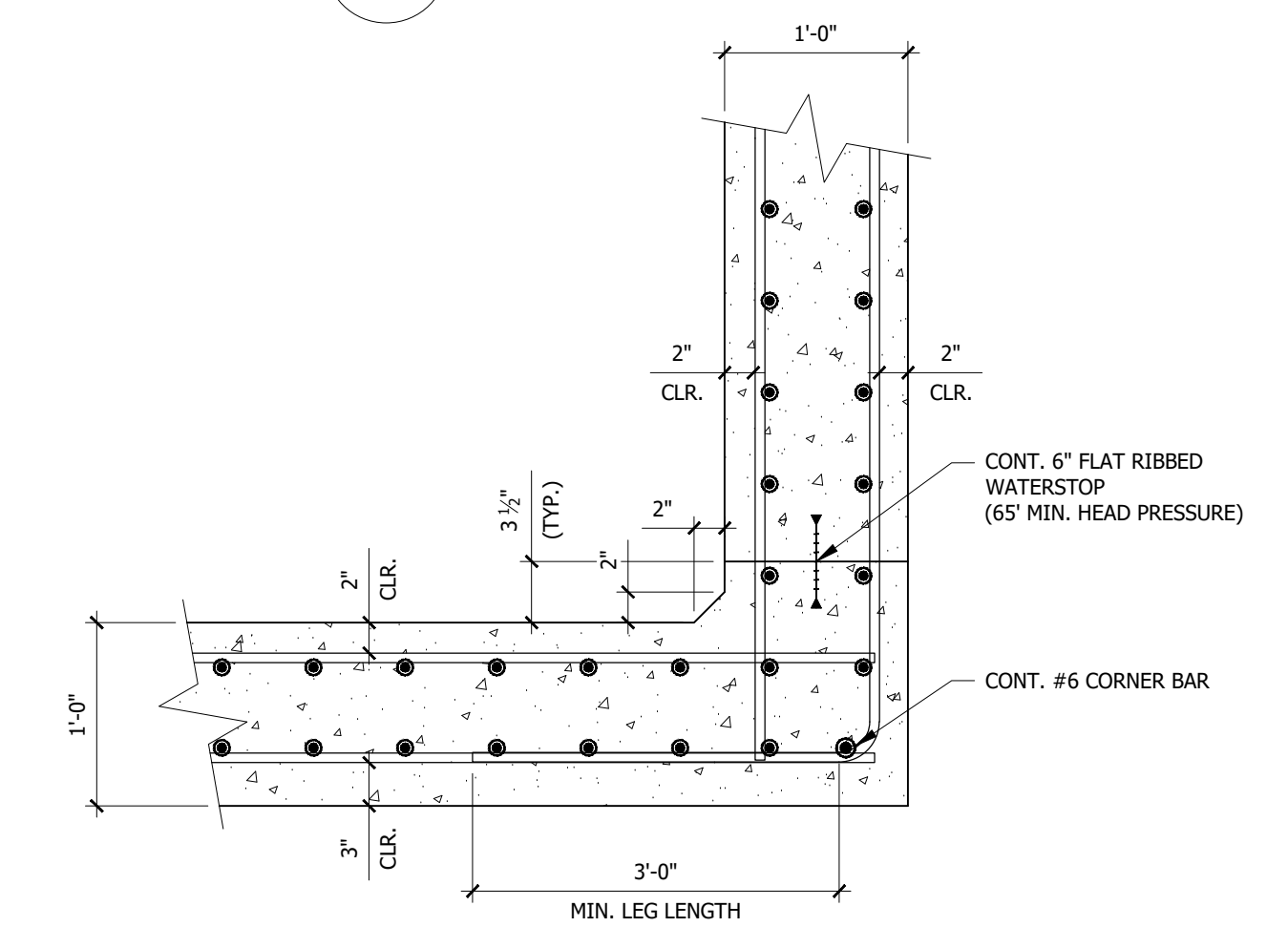
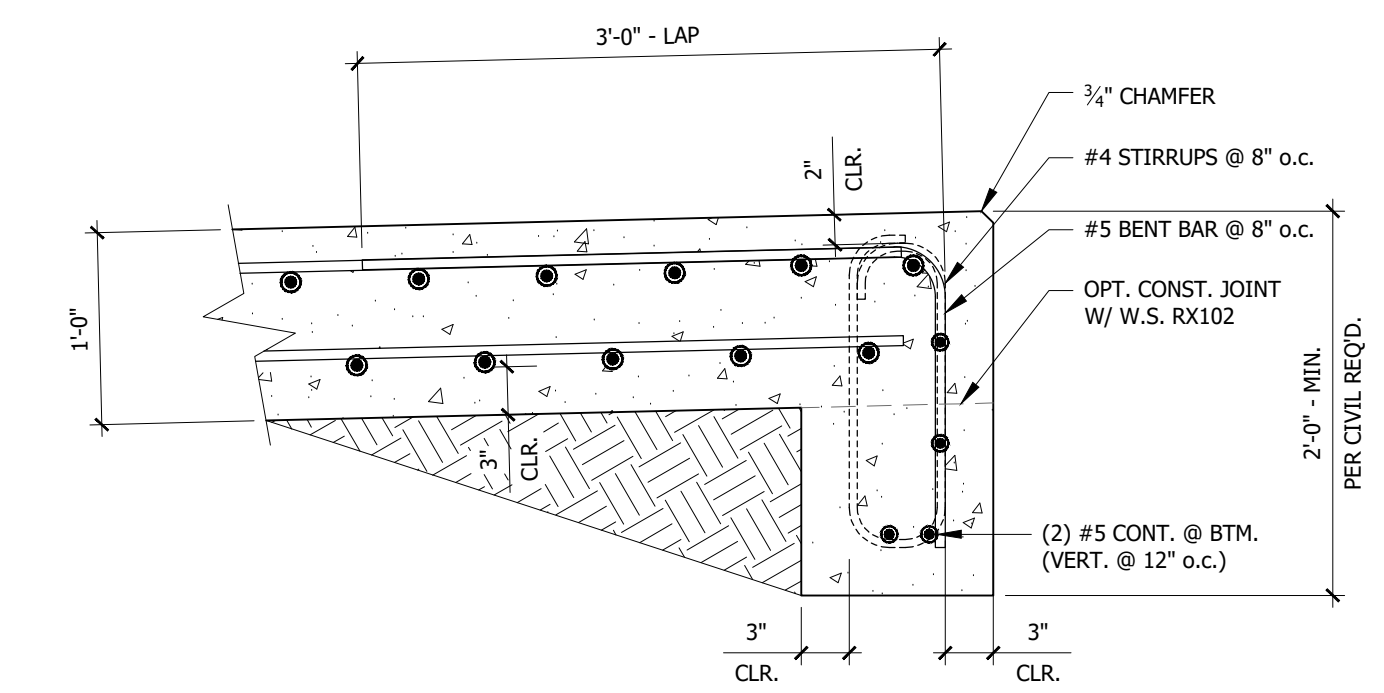
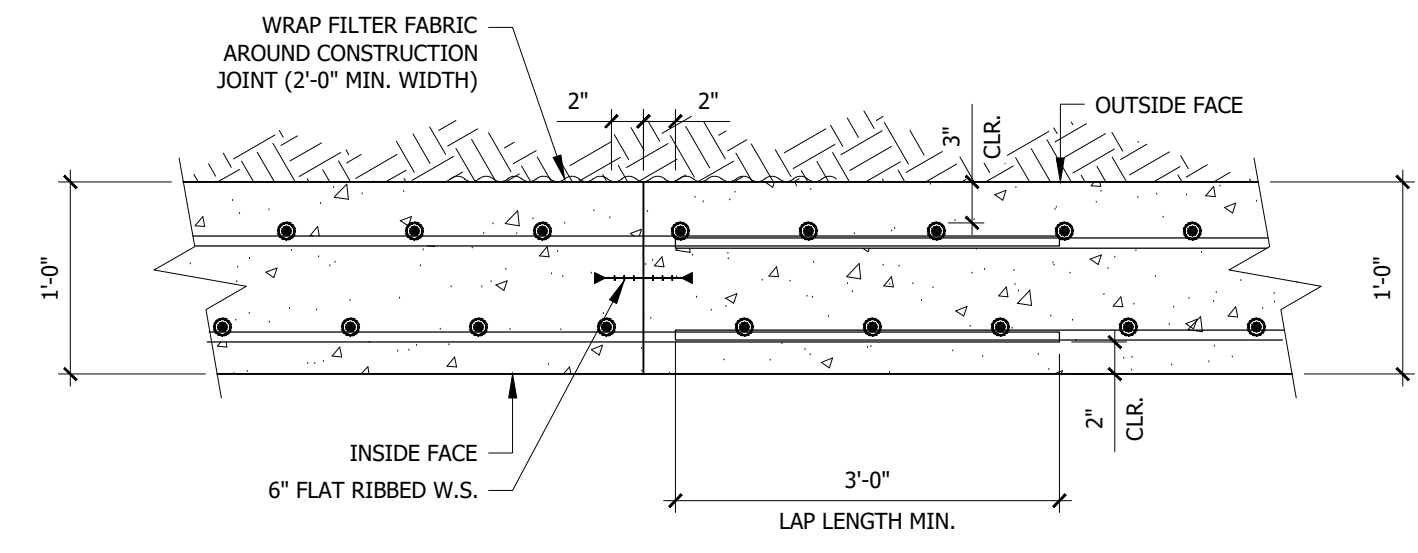
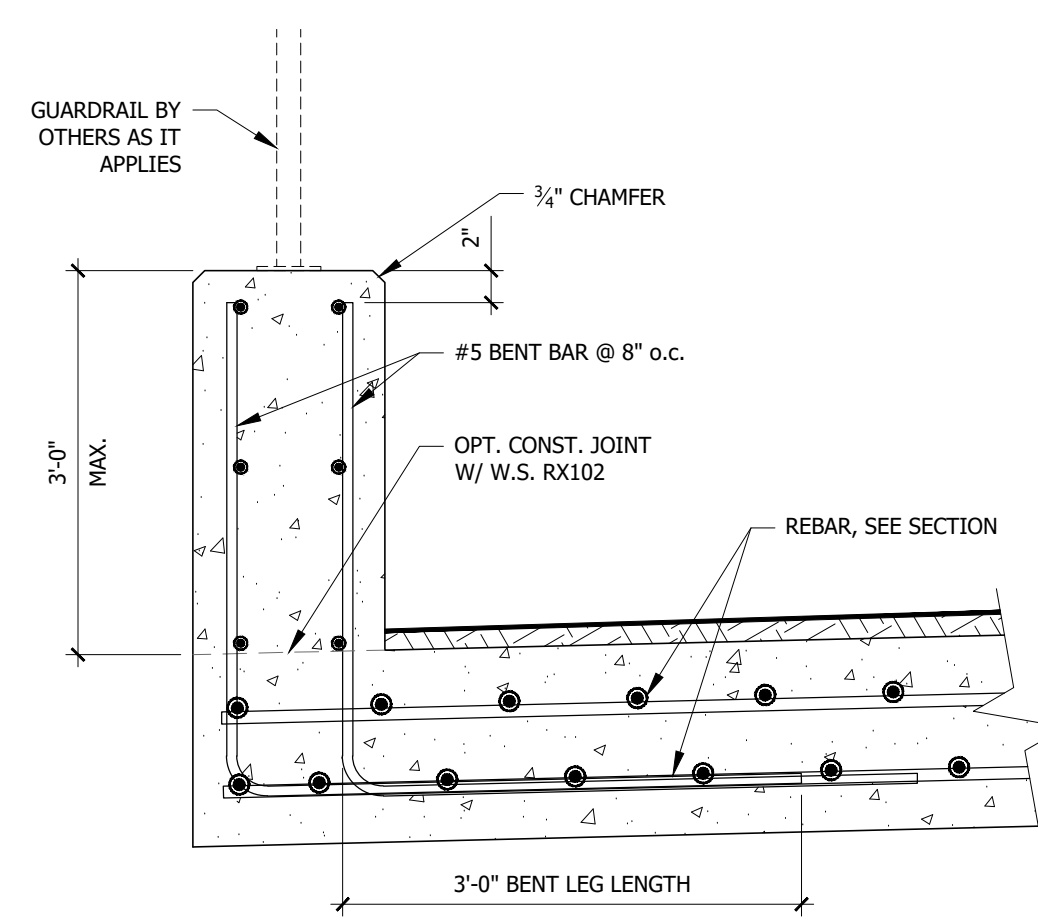
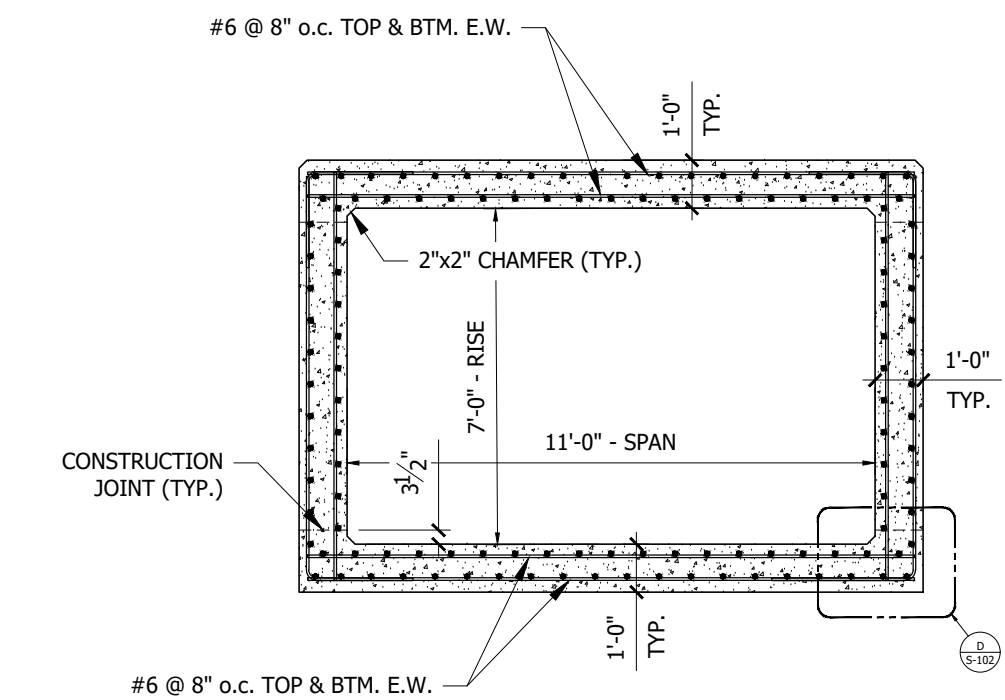
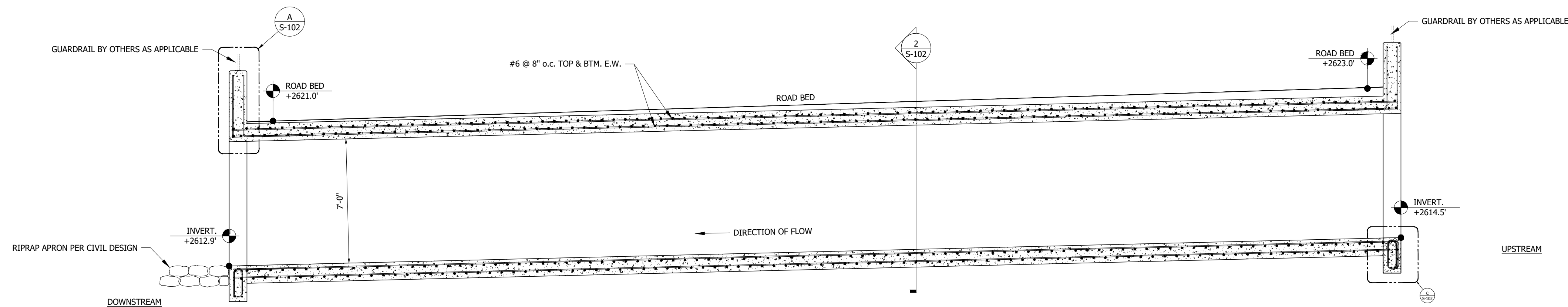
NOT TO SCALE	
OFFICE MANAGER M. CATHEY	DESIGNER F. UNGERT
PROJECT MANAGER B. CATHEY	REVIEWER F. UNGERT

PROPOSED CULVERT PLAN		
DATE MARCH 2024	PROJECT # 22.03002	FUNDING # N/A

SHEET  
**S-100**

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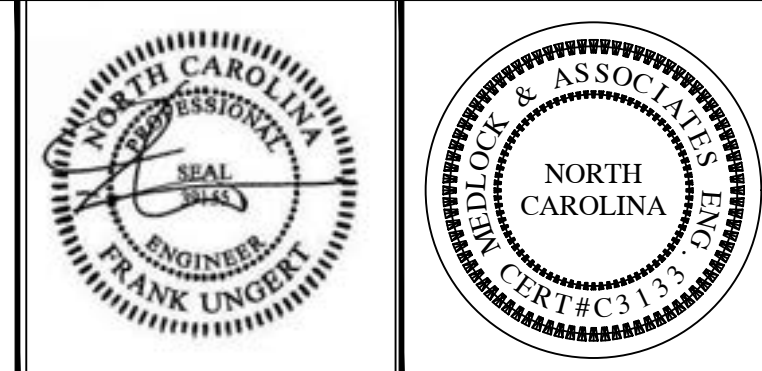
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		D	A OR G	J	A OR G
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#4	1/2"	3"	6"	4"	8"
#5	5/8"	3 3/4"	7"	5"	10"
#6	3/4"	4 1/2"	8"	6"	1'-0"
#7	7/8"	5 1/4"	10"	7"	1'-2"
#8	1"	6"	11"	8"	1'-4"

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03-12-24



NO.	DATE	BY	DESCRIPTION

RHODA STREET  
CULVERT REPLACEMENT AND FLOOR DAMAGE REPAIR  
**TOWN OF CANTON**  
HAYWOOD COUNTY, NORTH CAROLINA

AS NOTED

OFFICE MANAGER M. CATHEY	DESIGNER F. UNGERT
PROJECT MANAGER B. CATHEY	REVIEWER F. UNGERT

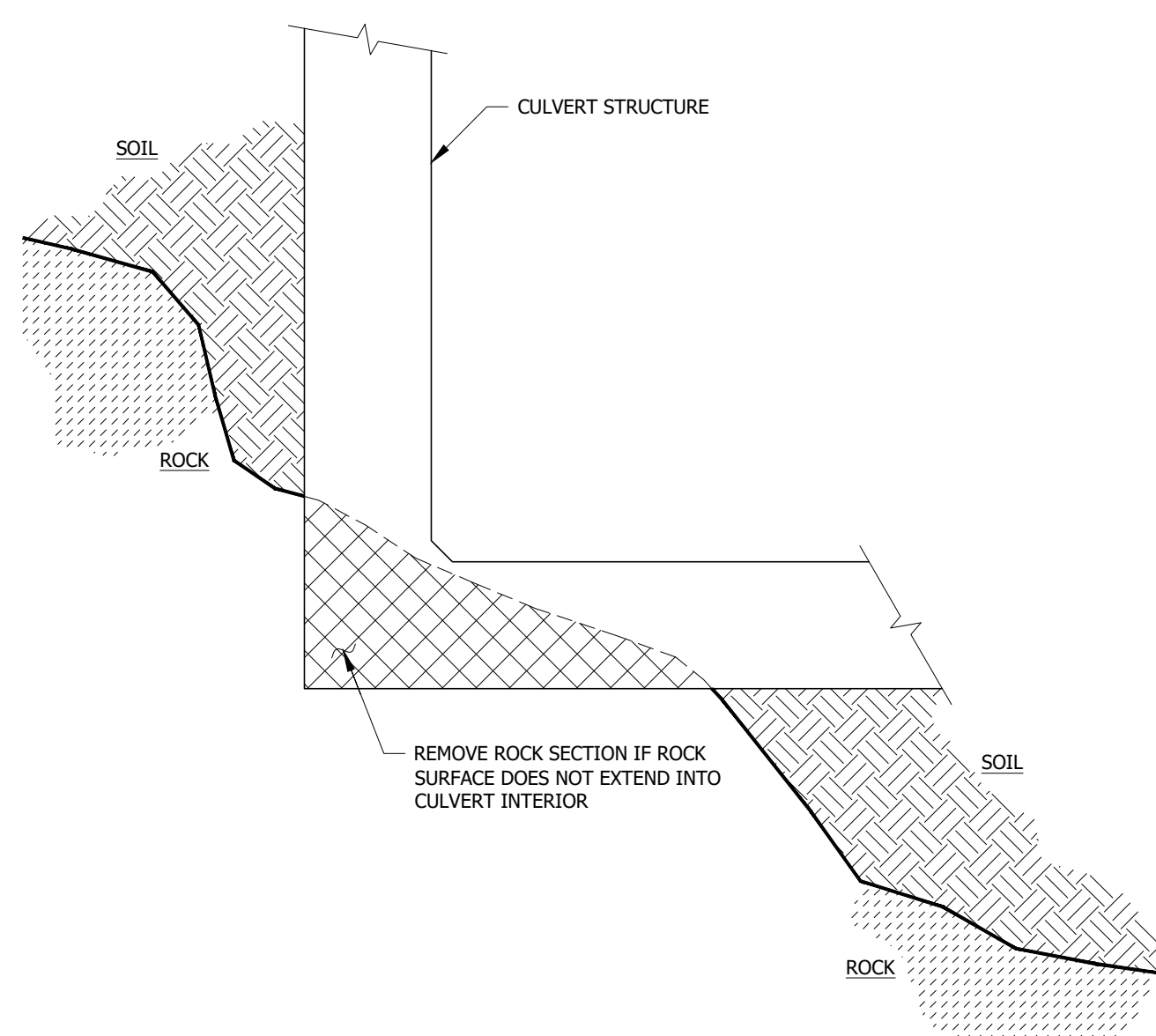
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DATE MARCH 2024	PROJECT # 22.03002	FUNDING # N/A
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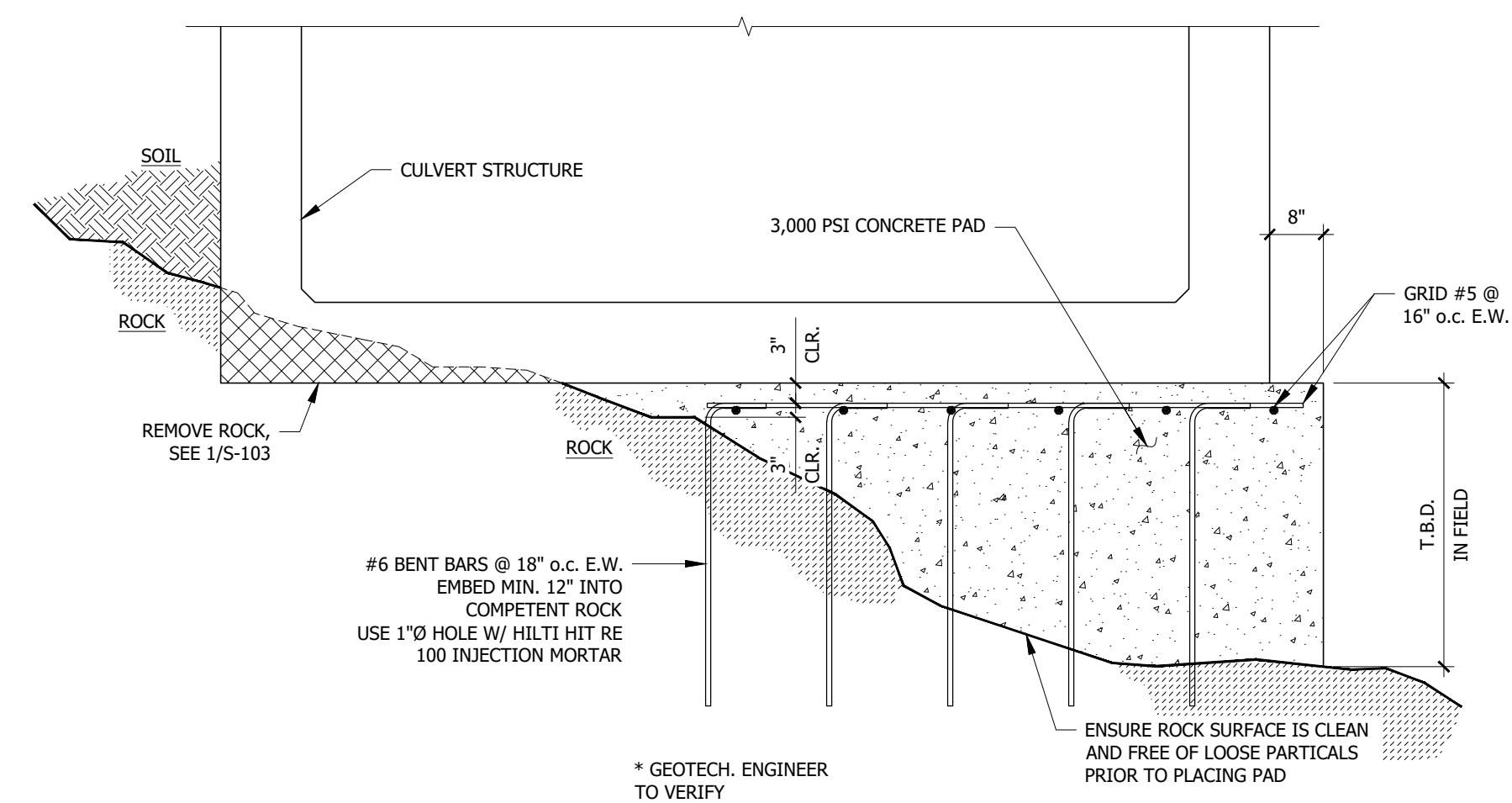
SHEET  
**S-102**

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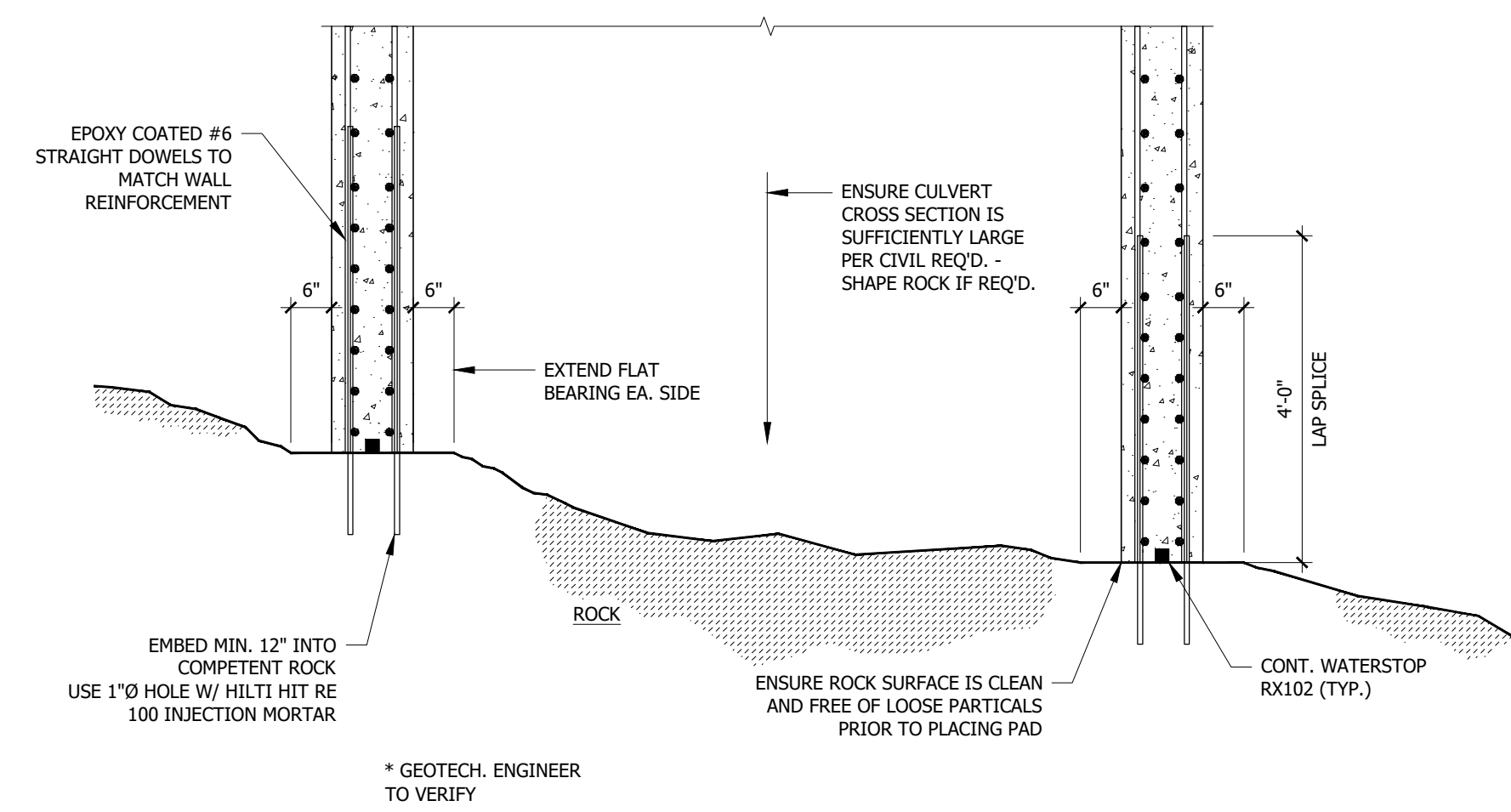
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**1** ROCK PIN DETAIL (ALT. 1)  
S-103 N.T.S.



**2** ROCK PIN DETAIL (ALT. 2)  
S-103 N.T.S.



**3** ROCK PIN DETAIL (ALT. 3)  
S-103 N.T.S.

**MEDLOCK & ASSOCIATES**  
ENGINEERING, P.A.

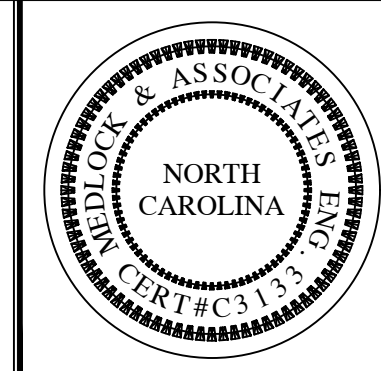
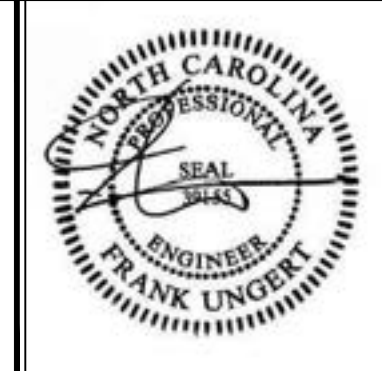
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03-12-24

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NO.	DATE	BY	DESCRIPTION

RHODA STREET  
CULVERT REPLACEMENT AND FLOOR DAMAGE REPAIR

**TOWN OF CANTON**

HAYWOOD COUNTY, NORTH CAROLINA

AS NOTED	
OFFICE MANAGER M. CATHEY	DESIGNER F. UNGERT
PROJECT MANAGER B. CATHEY	REVIEWER F. UNGERT

ROCK PIN DETAILS		
DATE MARCH 2024	PROJECT # 22.03002	FUNDING # N/A

SHEET  
**S-103**

## PRE-BID MEETING MINUTES

Project Name: Canton Culverts Package - Skyline Drive, Rhoda Street,  
Meadowbrook Drive

Owner: Town of Canton

Date: March 27, 2024, at 3:00 p.m.

Bid Date: April 12, 2024, at 3:00 p.m.  
Town of Canton Town Hall  
85 Summer Street, Canton, NC 28716

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1. Welcome, Introductions and distribute sign in sheet.
2. All project questions should be addressed to McGill Associates. Answers will be provided via formal addendum to the bidding documents. Questions received at least five (5) days prior to the date for opening will be answered by an addendum issued on Friday, April 5<sup>th</sup>, 2024.
3. Project Description: This bid package incorporates three project sites, each located in the Town of Canton, in Haywood County, North Carolina. The scope of work generally consists of culvert replacement, stream stabilization, construction of two retaining walls, stormwater and sanitary sewer installation, pavement replacement, and select demolition. Traffic control will be required.
  - A. Skyline Drive has constrained Limits of Disturbance to minimize access to the property Northeast of the project. Work in, or related to, the area immediately downstream of Skyline Drive shall be conducted from the road right of way as to not extend beyond the limits of disturbance or encroach further onto the property. This may require special means and methods unique to this project location.
  - B. Rhoda Street, similarly, has constrained Limits of Disturbance. Care should be taken to understand the limitations of the site and plan accordingly.
  - C. The phasing of the three locations requires attention to traffic control which will maintain access to the area throughout the duration of construction. A traffic control schematic has been included in the plans but will need to be fully developed and submitted to the engineer for review.
4. Clarifications

- A. Permits - 401/404 permit applications have been submitted and will be incorporated into the final contract documents.
  - B. Project Funding necessitates distinction between the work done at each location. This will appear first as having three separate lump bid forms, one for each location. It is still expected that the contract will be let to one prime contractor. Additionally, pay requests during construction will need to be distinct for each location.
5. Owner Comments – None Given
6. Bidders' Questions
- A. What is the extent of utility replacement, particularly related to the water and sanitary sewer lines' size and material?



**Canton Culverts Package - Skyline Drive, Rhoda Street, Meadowbrook Drive**

Town of Canton  
 Pre-Bid Conference Attendance

Wednesday, March 27, 2024 - 3:00 PM

85 Summer Street, Canton, NC 28716

Name	Company	Telephone Number	Email Address
Brian Austin	Austin Construction	(828) 779-9887	Brian.Austin@company.com
RONNIE RIDDLE	PATTON CONST.	828-713-9009	R.E.RIDDLE@PATTON CONSTRUCTION GROUP.COM
SAM BOONE	RCB LLC	828-208-1027	SamBoone@RockCreekGroup.com
Tim Gibson	Tim Gibson	828-208-7070	tim.gibson@timgibson.com
Kyle Johnson	Site Development	828-371-2017	ASouthard@sdsi.com
Chuck Fochi	Xylem Dewatering	423-914-2946	charles.fochi@xylem.com
Richard Hamilton	ASL	828 356 4630	RICHARD@ASSETTEINC.COM