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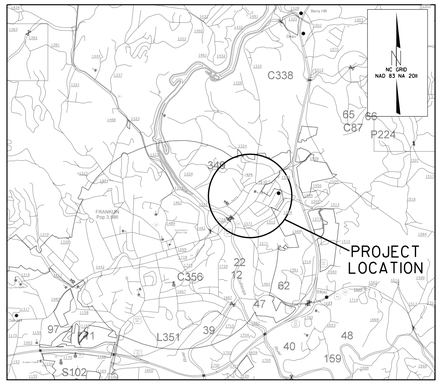
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TIP: EB-5964

CONTRACT: DN01170

See Sheet 1-A For Index of Sheets

VICINITY MAP



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

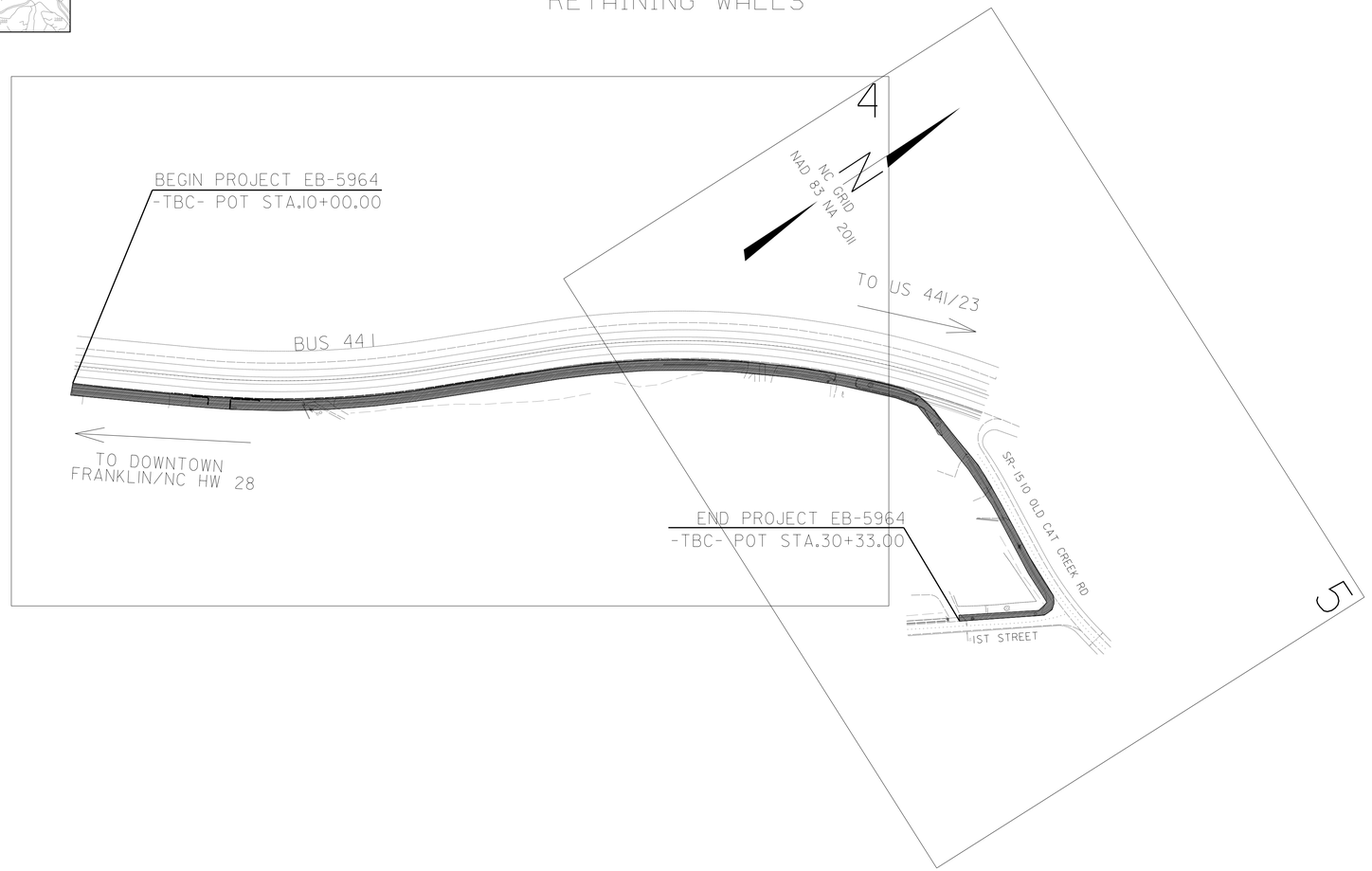
MACON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	EB-5964	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
48509.1.1	4850901	PRELIM. ENGINEERING
48509.2.1	4850901	R/W AQUISITION
48509.3.1	4850901	CONSTRUCTION

LOCATION: ***ALONG BUSINESS 441, SR-1510 OLD CAT CREEK ROAD AND 1ST STREET***

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND RETAINING WALLS



GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

PROJECT LENGTH

TOTAL LENGTH STATE PROJECT = .39 MILES

Prepared In the Office of:

DIVISION OF HIGHWAYS

253 Webster Dr., Sylva NC, 28779

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 5-14-2025

ANDY RUSSELL P.E.
PROJECT ENGINEER

LETTING DATE: 11-10-2026

ANDY RUSSELL P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

P.E.
SIGNATURE:

ROADWAY DESIGN ENGINEER

P.E.
SIGNATURE:

NORTH CAROLINA PROFESSIONAL SEAL 037962 ENGINEER JESSE RUSSELL

Docusigned by: Andy Russell 8/12/2026

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	1-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS
1B	CONVENTIONAL SYMBOLS
2-2A	TYPICAL SECTIONS
3	SUMMARY SHEET
W1	STANDARD CIP GRAVITY RETAINING WALL DETAIL
RW02C1 - RW02C4	SURVEY CONTROL SHEETS
4-5	PLAN SHEETS
6-7	PROFILE SHEETS
EC1-EC5	EROSION CONTROL SHEETS
X1-X78	CROSS SECTIONS

GENERAL NOTES

GENERAL NOTES: 2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024

1 CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO THESE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2 THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY.

3 CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III

4 DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

5 NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

6 CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

UTILITY OWNERS:

-TOCCOA NATURAL GAS
-BALSAM WEST
-DUKE ENERGY
-FRONTIER COMMUNICATIONS
-TOWN OF FRANKLIN

LIST OF ROADWAY STANDARDS

2024 ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" - Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., dated January 16, 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing Modified Method - III
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation Flexible and Rigid Pipes
DIVISION 8 - INCIDENTALS	
840.01	Brick Catch Basin 12" Thru 54" Pipe
840.03	Frame, Grates, and Hood for Use on Standard Catch Basin
840.31	Concrete Junction Box 12" Thru 66" Pipe
840.32	Brick Junction Box 12" Thru 66" Pipe
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
846.01	Concrete Curb, Gutter and Curb and Gutter
848.01	Concrete Sidewalk
848.03	Driveway Turnout Drop Curb Style
848.06	Curb Ramp Directional Ramp, Island Ramp and Notes
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	Work Zone Advance Warning Signs
1101.02	Temporary Lane Closures
1101.04	Temporary Shoulder Closures
1101.11	Traffic Control Design Tables
1110.01	Stationary Work Zone Signs
1110.02	Portable Work Zone Signs
1130.01	Drum
1135.01	Cones
1150.01	Flagging Devices
1180.01	Skinny Drum

12/05/11

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	1-B

Note: Not to Scale

****S.U.E. = Subsurface Utility Engineering***

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

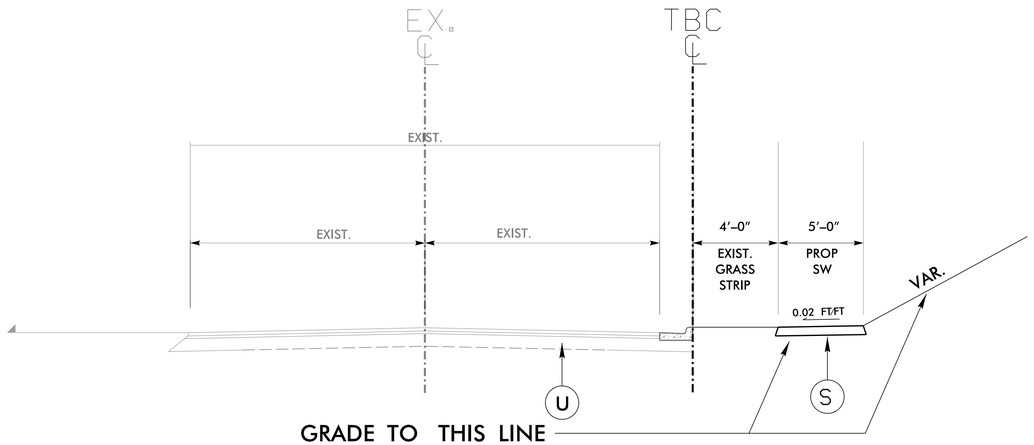
MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	2

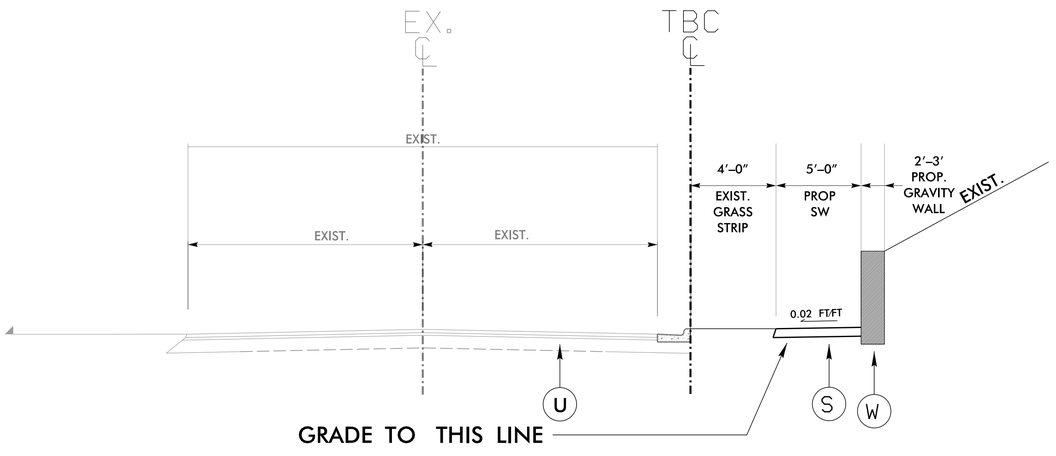
SCHEDULE

T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
S	PROPOSED SIDEWALK.
W	PROPOSED WALL.
X	EXISTING WALL.
R	PROPOSED 2' - 6" CURB AND GUTTER.



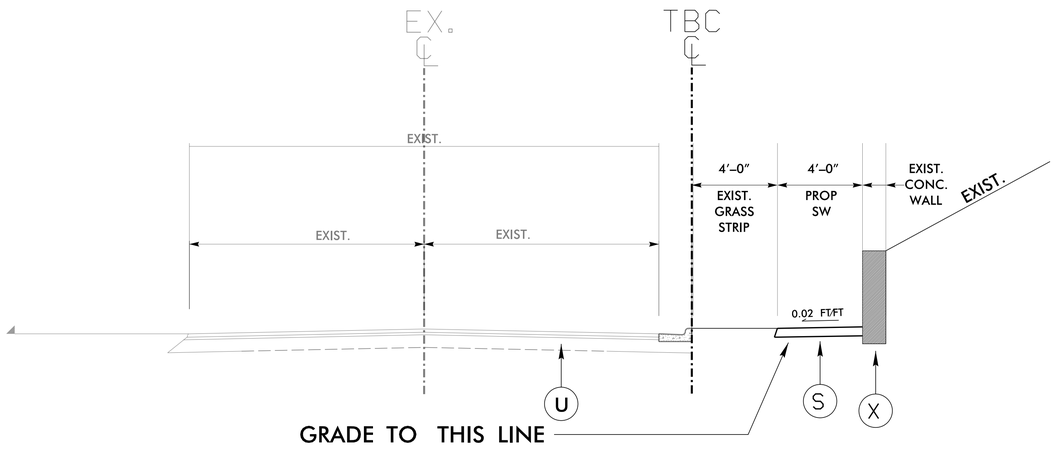
TYPICAL SECTION NO. 1

–TBC– Sta. 10+00 to Sta. 10+30
–TBC– Sta. 11+61 to Sta. 20+03
–TBC– Sta. 20+78 to Sta. 24+15



TYPICAL SECTION NO. 2

–TBC– Sta. 10+30 to Sta. 11+61



TYPICAL SECTION NO. 3

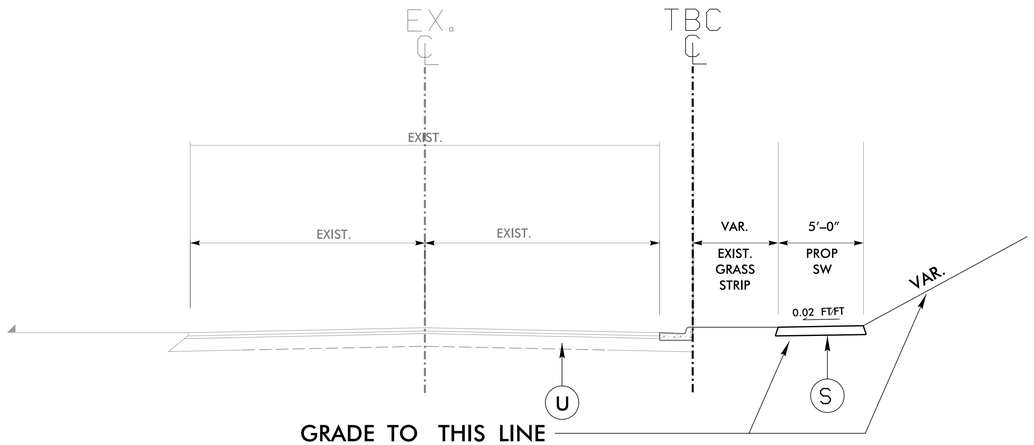
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PROJECT REFERENCE NO.	SHEET NO.
EB-5964	2-A

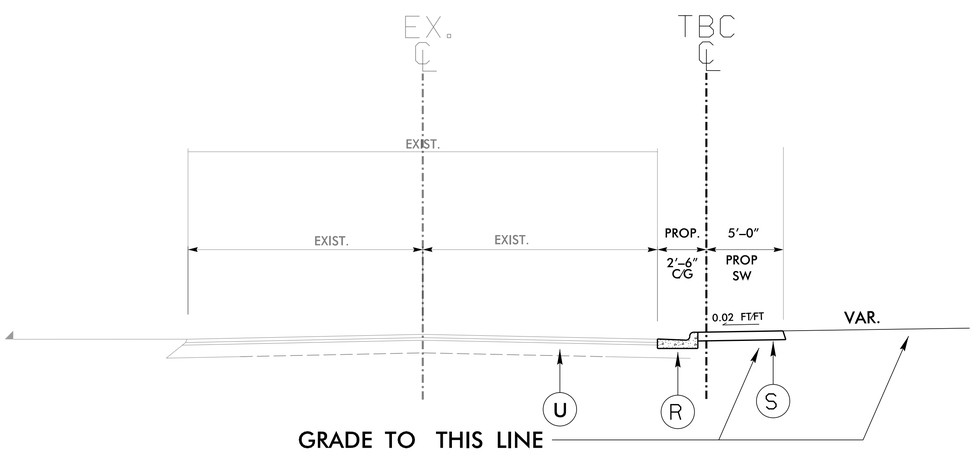
SCHEDULE

T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
S	PROPOSED SIDEWALK.
W	PROPOSED WALL.
X	EXISTING WALL.
R	PROPOSED 2' - 6" CURB AND GUTTER.



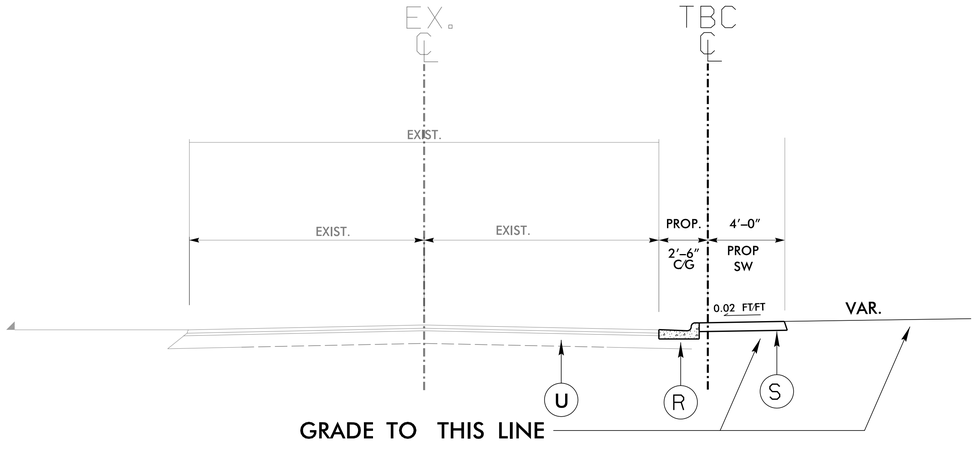
TYPICAL SECTION NO. 4

–TBC– Sta. 24+15 to Sta. 24+90



TYPICAL SECTION NO. 5

–TBC– Sta. 24+90 to Sta. 27+38
–TBC– Sta. 27+66 to Sta. 30+25



TYPICAL SECTION NO. 6

–TBC– Sta. 27+38 to Sta. 27+66

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12/06/07

COMPUTED BY: COLBY ORR DATE: 6-29-2026
CHECKED BY: _____ DATE: _____

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
10+00.00	30+33.00	407		80	407
SUBTOTALS:		407		80	407
GRAND TOTALS:		407		80	407
SAY:		420		100	420

NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR GRADING.

SUMMARY OF EXISTING CONCRETE PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
TBC	14+01.95	15+15.08	RT	114
			TOTAL:	114
			SAY:	120

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

| STATION | LOCATION (LT,RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | C.S. PIPE (UNLESS NOTED OTHRWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | CLASS III R.C. PIPE (UNLESS OTHERWISE NOTED) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P. | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0') | LIN. *FT. A (5.0' THRU 10.0') | LIN. *FT. B (10.0' AND ABOVE) | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. FRAME WITH GRATE STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | CONVERT EXIST. D.I. TO M.H. | M.H. MANHOLE COVER STD. 840.54 | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. (FLOWABLE FILL CY) | REMARKS |
|---|---|---|---|---|---

GEOTECHNICAL ENGINEER

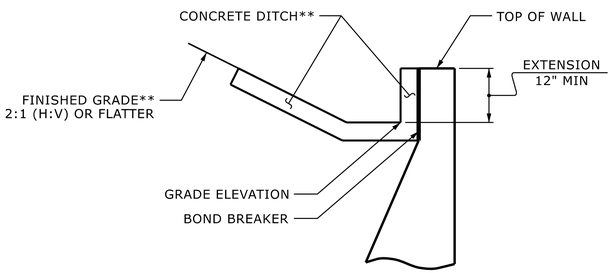
ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 037962 ENGINEER JESSE A RUSSELL

DocuSigned by: Andy Russell E9017A3F4681430... 09/02/2026

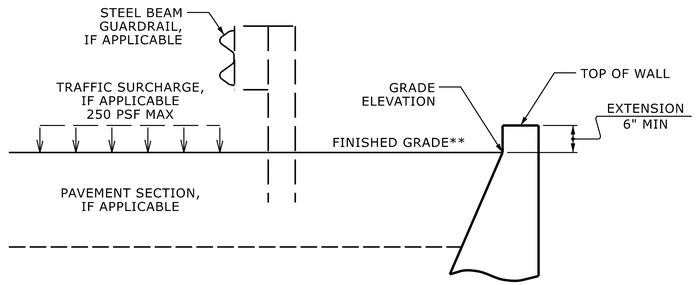
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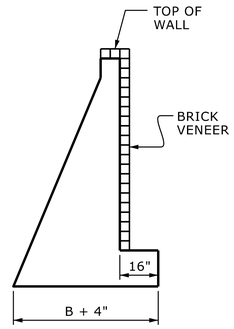
SLOPE CASE

**SEE ROADWAY PLANS FOR CONCRETE DITCH AND FINISHED GRADE DETAILS.



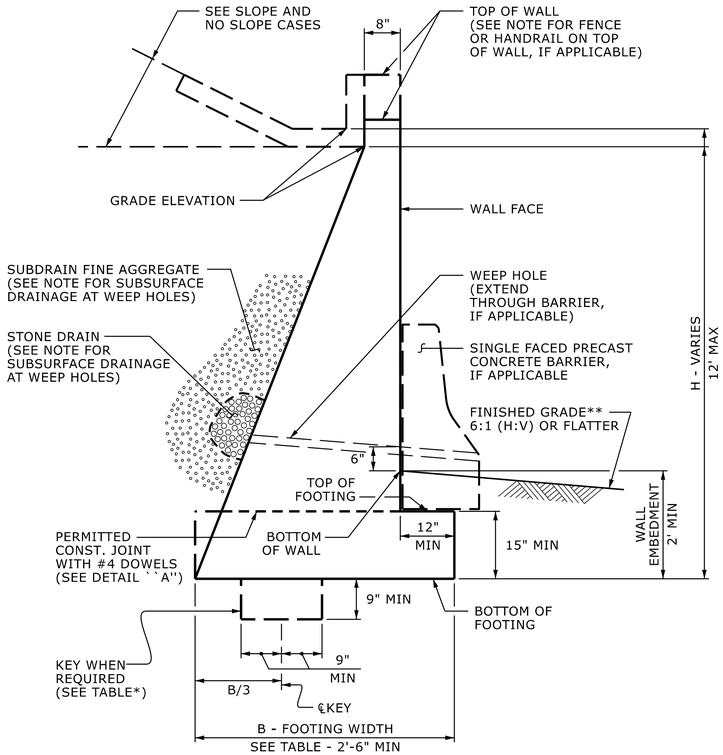
NO SLOPE CASE

**SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



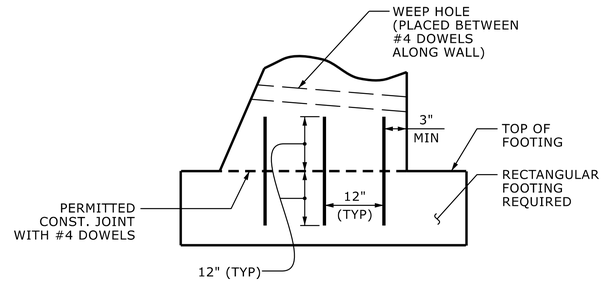
BRICK VENEER DETAIL

(WHEN APPLICABLE)



STANDARD CIP GRAVITY WALL

**SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



DETAIL "A"

H (FT)	3 - < 6	6 - 9	> 9 - 12
SLOPE CASE	.66	.70*	.75*
NO SLOPE CASE WITH TRAFFIC SURCHARGE	.80	.75*	.70*
NO SLOPE CASE WITHOUT TRAFFIC SURCHARGE	.60	.60	.60

B/H RATIO (B = 2'-6" MIN)

*KEY IS REQUIRED FOR "SLOPE CASE" OR "NO SLOPE CASE WITH TRAFFIC SURCHARGE" WHEN H IS 6' OR GREATER.

NOTES:

FOR STANDARD CIP GRAVITY RETAINING WALLS, SEE SECTION 453 OF THE STANDARD SPECIFICATIONS.

FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.

FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.

FOR FENCES OR HANDRAILS ON TOP OF WALLS, SEE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS.

FOR SUBSURFACE DRAINAGE AT WEEP HOLES, SEE ARTICLE 414-8 OF THE STANDARD SPECIFICATIONS.

STANDARD CIP GRAVITY WALLS ARE BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
- UNIT WEIGHT, γ = 120 PCF
- FRICTION ANGLE, φ = 35 DEGREES (GROUNDWATER WITHIN 7' OF BOTTOM OF FOOTING)
- FRICTION ANGLE, φ = 30 DEGREES (GROUNDWATER MORE THAN 7' BELOW BOTTOM OF FOOTING)
- COHESION, c = 0 PSF

DO NOT USE STANDARD CIP GRAVITY WALLS IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE OR GROUNDWATER IS ABOVE BOTTOM OF FOOTING.

DO NOT USE STANDARD CIP GRAVITY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW WALLS.

BEFORE BEGINNING STANDARD CIP GRAVITY WALL CONSTRUCTION, SURVEY WALL LOCATIONS AND SUBMIT WALL PROFILE VIEWS (WALL ENVELOPES) FOR REVIEW. FOR WALL ENVELOPES, INCLUDE BOTTOM OF WALL, EXISTING GROUND AND GRADE ELEVATIONS AND OTHER ELEVATIONS AS NEEDED AT INTERVALS OF 25' OR LESS ALONG WALLS. DO NOT START WALL CONSTRUCTION UNTIL WALL ENVELOPES ARE ACCEPTED.

FOR BRICK VENEERS, SUBMIT BRICK SAMPLES FOR APPROVAL BEFORE BEGINNING STANDARD CIP GRAVITY WALL CONSTRUCTION.

DO NOT PLACE CONCRETE FOR FOOTINGS UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

WHEN CONSTRUCTING STANDARD CIP GRAVITY WALLS WITH A CONSTRUCTION JOINT AS SHOWN IN DETAIL "A", PROVIDE A MINIMUM OF 3 EQUALLY SPACED #4 DOWELS AT INTERVALS OF 1'-6" ALONG WALLS.

PROJECT NO.: EB-5964

MACON COUNTY

STATION: 10+30.00 - 11+61.00 -TBC-

SHEET _ OF _ WALL ID RW-___-____

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

STANDARD DETAIL NO. 453.01

STANDARD CIP GRAVITY RETAINING WALL

DATE: 02-18-2025

SHEET NO. W-1

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	4

NC GRID
NAD 83 NA 2011

BEGIN PROJECT EB-5964
-TBC- POT STA.10+00.00

10

15

20

10+00

REVISIONS

8/17/99

MATCHLINE 23+85 SEE SHEET 5

EX R/W

BUS. 441

PROP. CURB RAMP STD. 848.06 TYPE 1 MODIFIED

BACKFLOW PREVENTER

ADJUST SIGN

REMOVE EXIST. GRATE, REPLACE W/ CONC. SLAB LID W/ MANHOLE COVER

JB w/MH 401

+65.52 -EL- 50.01 EX. RW

+43.26 -EL- 50.03 EX. RW

+32.93 -EL- 99.00

BEGIN PROP. CONC. SW STD. 848.01

PROP. CIP GRAVITY RETAINING WALL 10+30.00 - 11+61.00 **SEE XSC FOR DIMENSIONS**

PROP. CONC. DTO STD. 848.03 **TIE TO EXIST. DW W/S9.5B**

REMOVE EX. DTO, REPLACE W/ NEW 2'6" CONC. CURB AND GUTTER STD. 846.01

DEMOLISH, RE-GRADE AND PAVE EXIST. ASPHALT DW W/ 1.5" S9.5B

PROP. CONC. SW STD. 848.01

RETAIN EX. WALL, REDUCE CONC. SW WIDTH TO 4 FT AND INSTALL ADJACENT TO BASE OF WALL

PROP. CONC. MEDIAN ISLAND W/ CUT THROUGH TYPE 7 STD. 848.06

ADJUST GAS VALVE

ADJUST SIGN

REMOVE STUMP

REMOVE TREE

ADJUST MANHOLE

EXISTING R/W

REMOVE TREE

MANU PREMA, LLC
Q-37/1

REGINALD B. HOLLAND JR.
C-37/2163

THOMAS DAVID NOLEN
L-43/2078

DAVID R PATTERSON
L-44/693

HAROLD ARTHUR HUSCUSSON
O-36/1545

JAMES B. RAY
X-12/21

LINDA LEE WRIGHT
B-37/1125

JENNIFER M. PRINCE
F-43/2201

PEARL BURLESON MASHBURN
W-35/1681

1

PEARL BURLESON MASHBURN
W-35/1681

CINDY ANN SHOWER
X-40/909

VANDRAKE INVESTMENTS, LLC
E-43/1260

2

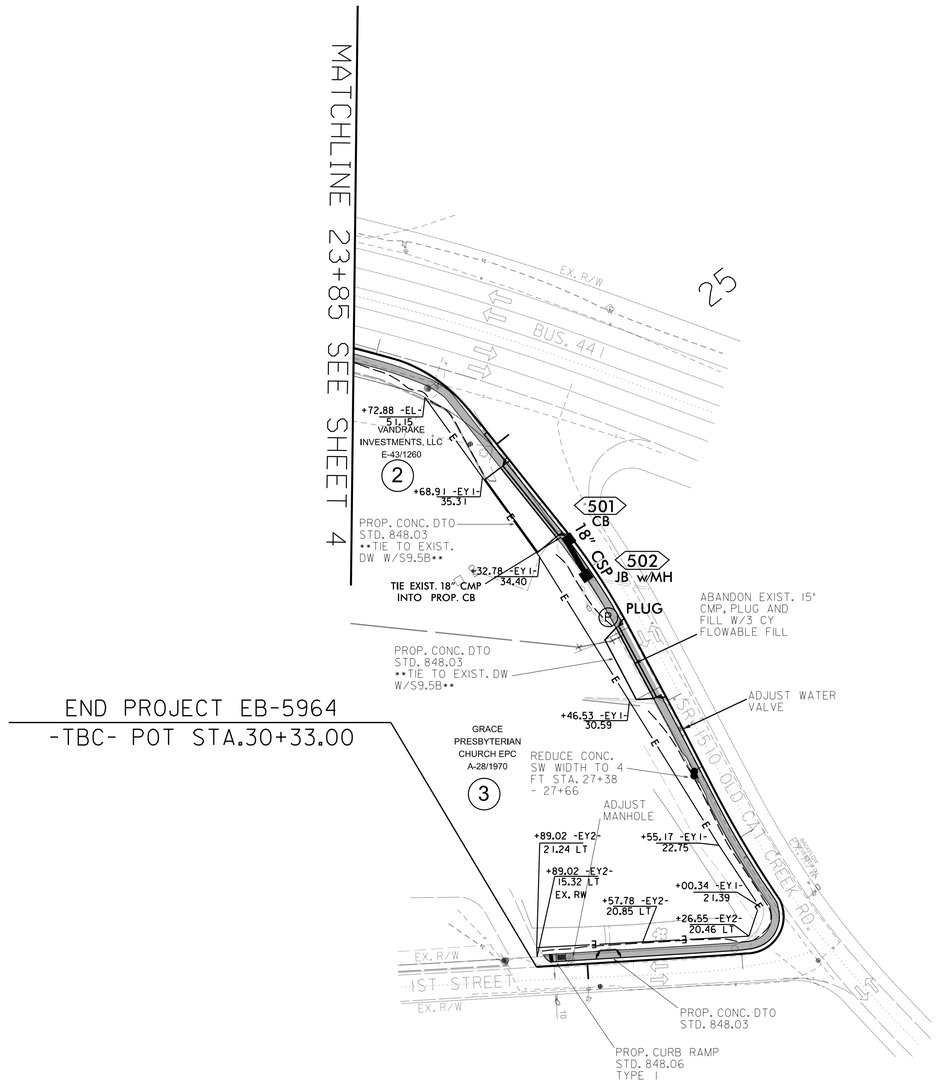
GRACE PRESBYTERIAN CHURCH EPC
A-28/1970

3

EIP

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PROJECT REFERENCE NO.	SHEET NO.
EB-5964	5



30

REVISIONS

8/17/99

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23-JUL-2026 10:31
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PROJECT REFERENCE NO.	
EB-5964	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 037962 ENGINEER JESSIE A RUSSELL

Docusigned by: Andy Russell 8/12/2026

E9017A3F4681430...

BEGIN PROJECT EB-5964
-TBC- POT STA.10+00.00

EXISTING GROUND PROFILE ALIGNMENT -TBC-

2140
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00

5/14/99

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PROJECT REFERENCE NO.	
EB-5964	7

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 037962 ENGINEER JESSE A. RUSSELL

Docusigned by: Andy Russell 8/02/2026
E9017A7AE4681437D

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

END PROJECT EB-5964
-TBC- POT STA.30+33.00

EXISTING GROUND PROFILE ALIGNMENT -TBC-

2140
2120
2100
2080
2060
2040
2020
2000
1980
1960

24+00 25+00 26+00 27+00 28+00 29+00 30+00

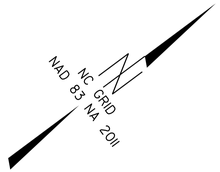
2140
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1960

24+00 25+00 26+00 27+00 28+00 29+00 30+00

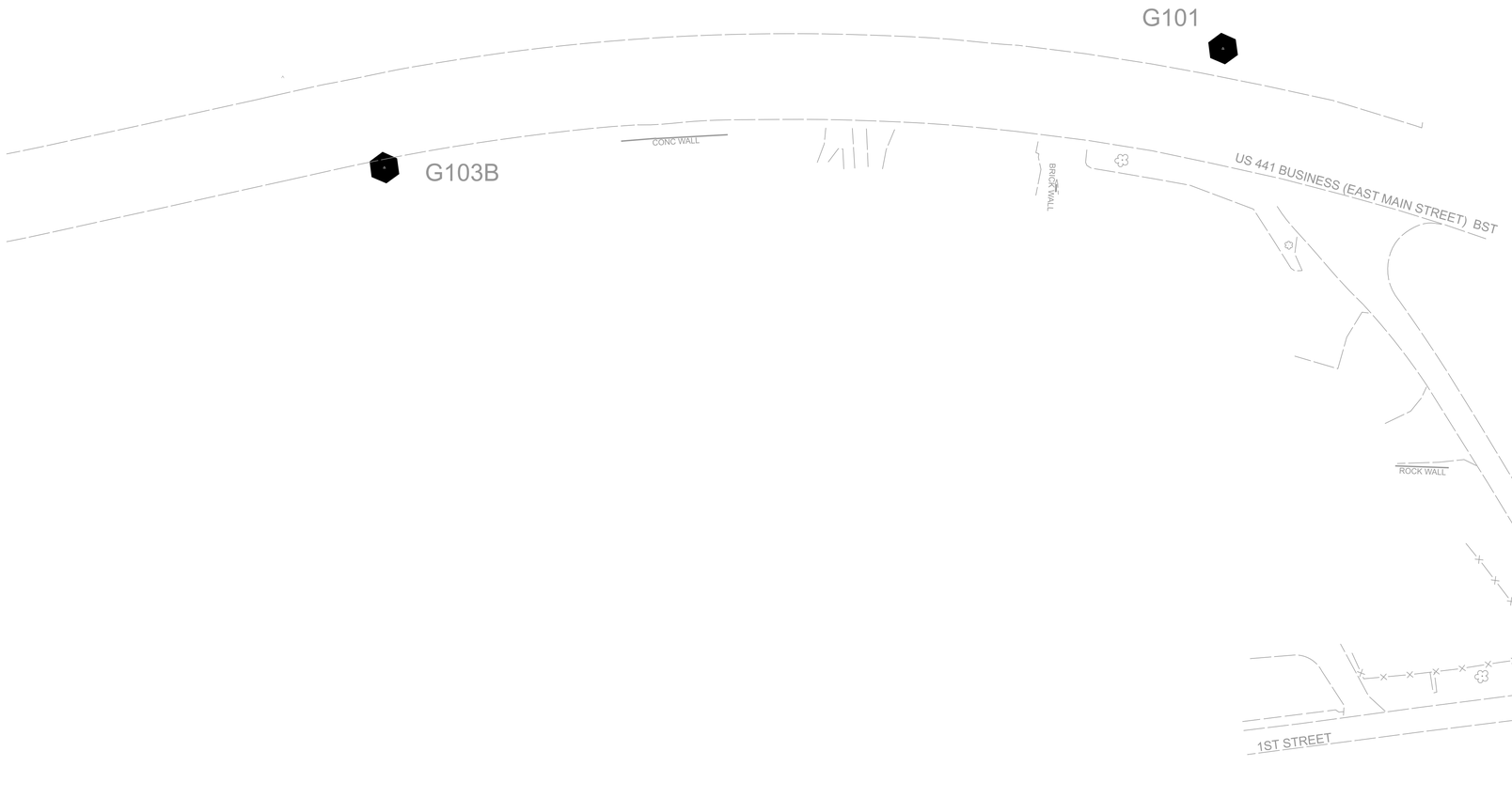
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5/26/20

PRIMARY SURVEY CONTROL SHEET



PRIMARY CONTROL TABLE				
Point	Northing	Easting	Elevation	Description
G101	553279.5040	695387.9570	2093.86	30" REBAR & CAP
G103B	552757.6360	695103.2100	2063.94	30" REBAR & CAP





I, BRIAN BARWATT, PLS, CERTIFY THAT THE PRIMARY PROJECT CONTROL WAS PERFORMED UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:

CLASS OF SURVEY: ***AA***
TYPE OF GPS FIELD PROCEDURE: VRS
DATES OF SURVEY: 06/23/2025 - 07/15/2025
DATUM/EPOCH: NAD83/NA 2011
PUBLISHED/FIXED-CONTROL USE: N/A
LOCALIZED AROUND: NCGS "WATAUGA"
NORTHING: 553,279.5040'
EASTING: 695,387.9570'
COMBINED GRID FACTOR: 0.99977606
GEOID MODEL: G12
UNITS: U.S. SURVEY FEET

THIS 4TH DAY OF MAY, 2026.

Signed by:
Brian Barwatt
A9355FE84A8A4CE...

PROFESSIONAL LAND SURVEYOR L-4727

NOTES:

1. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

EB-5964
R/W | 02C-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4727 LAND SURVEYOR BRIAN A. BARWATT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

TIP PROJECT: EB-5964
County: Macon

PREPARED FOR

LOCATION AND SURVEYS UNIT

PREPARED BY:

LOCATION AND SURVEYS
DIVISION 14
122 BONNIE LANE
SYLVA, NC 28779

5/26/20

SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

SEE SHEET RW2C-4
FOR FURTHER
ALIGNMENT AND CONTROL DETAILS

I, BRAIN BARWATT, PLS, CERTIFY THAT THE SECONDARY BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE SHARGE FORM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION UTILIZING PRIMARY GPS CONTROL SET BY OTHERS; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 06/23/2025 TO 07/15/2025, AND ALL COORDINATES ARE BASED ON NAD 83/NA 2011 AND ALL ELEVATIONS ARE BASED ON NAVD 88, THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 4TH DAY OF MAY, 2026.

Signed by:
Brian Barwatt
A9355FE844AA4CE...

PROFESSIONAL LAND SURVEYOR L-4727

NC GRID
NAD 83 NA 2011

START

N38°40'51"E
522.11'

BL-6

PC

BL-7

PT

PC

-EL-
N24°15'58"E
189.08'

US 441 BUSINESS (EAST MAIN STREET) BST

CONC

BST

MATCH LINE -EL- STA 23+50.00 SEE SHEET RW02C-3

50' 25' 0' 50' 100'

NOTES:

1. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

EB-5964
R/W | 02C-2

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4727 LAND SURVEYOR BRIAN A. BARWATT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

TIP PROJECT: EB-5964
County: Macon

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY:

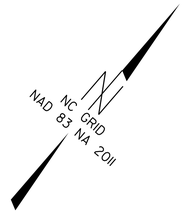
LOCATION AND SURVEYS
DIVISION 14
122 BONNIE LANE
SYLVA, NC 28779

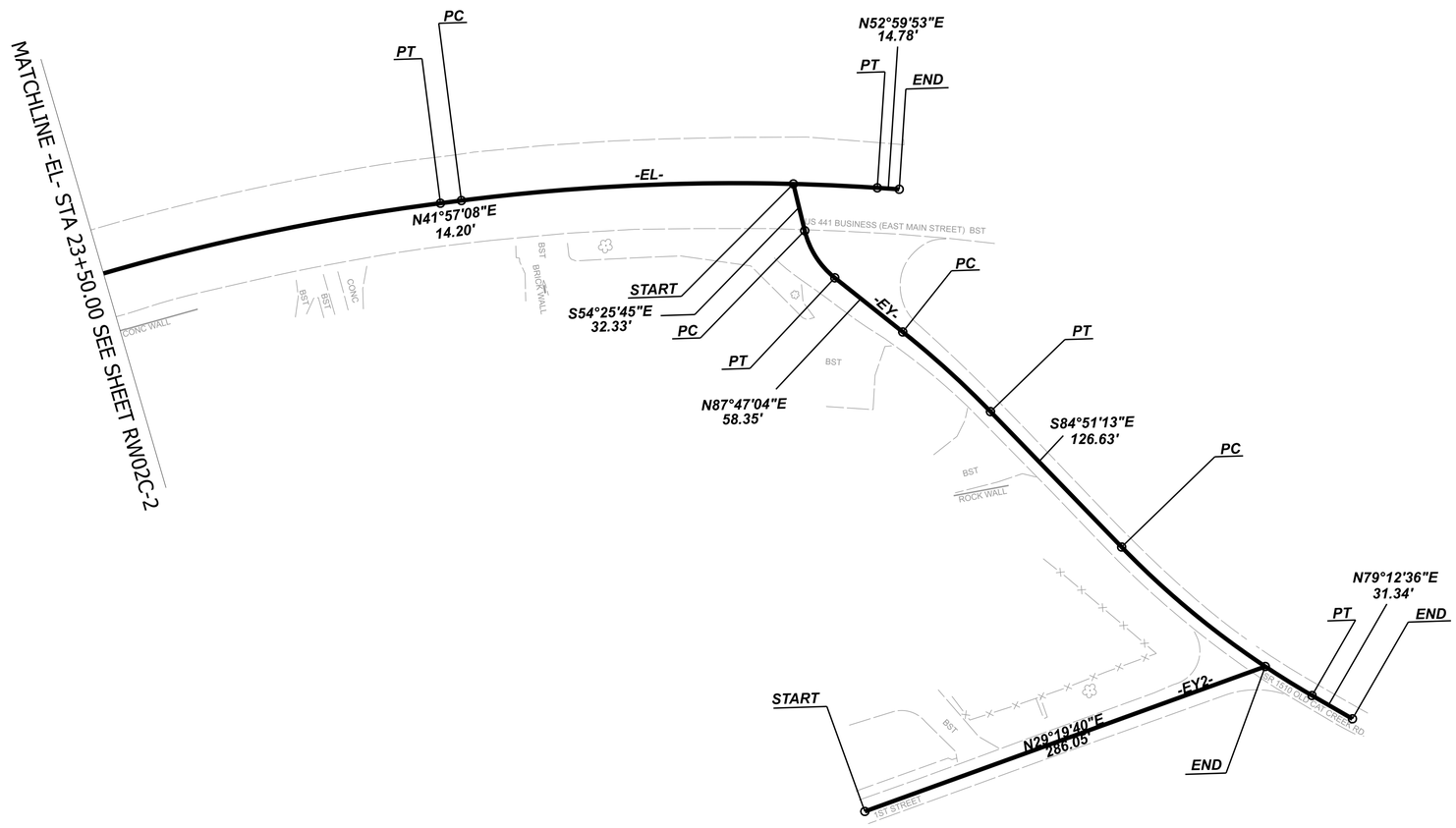
5/26/20

SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOP TO CONSTRUCTION

SEE SHEET RW2C-4
FOR FURTHER
ALIGNMENT AND CONTROL DETAILS





50' 25' 0' 50' 100'

I, BRIAN BARWATT, PLS, CERTIFY THAT THE SECONDARY BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MAD UNDER MY SUPERVISION UTILIZING PRIMARY GPS CONTROL SET BY OTHERS; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 06/23/2025 TO 07/15/2025, AND ALL COORDINATES ARE BASED ON NAD83/ NA 2011 AND ALL ELEVATIONS ARE BASED ON NAVD 88; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 4TH DAY OF MAY, 2026.

Signed by:
Brian Barwatt
A9355FE8A8A4CE

PROFESSIONAL LAND SURVEYOR L-4727

NOTES:

1. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

EB-5964
R/W | 02C-3

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4727 LAND SURVEYOR BRIAN A. BARWATT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

TIP PROJECT: EB-5964
County: Macon

PREPARED FOR

LOCATION AND
SURVEYS UNIT

PREPARED BY:

LOCATION AND SURVEYS
DIVISION 14
122 BONNIE LANE
SYLVA, NC 28779

5/26/20

SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE POINTS TABLE				
Point	Northing	Easting	Elevation	Description
BL-6	551805.9280	694518.8720	2013.78	30" REBAR & CAP
BL-7	552407.1610	694846.2370	2041.53	30" REBAR & CAP

EXISTING ALIGNMENT NAME:EL									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	551812.2223	694437.8489							
LINE			N38°40'51.0"E	522.1058					
PC	552219.7988	694764.1553							
CURVE					14°24'53.1" Left	03°28'26.2"	414.9380	208.5703	1649.2978
PT	552572.7594	694980.2250							
LINE			N24°15'57.9"E	189.0832					
PC	552745.1365	695057.9335							
CURVE					17°41'09.9" Right	03°53'04.1"	455.3036	229.4768	1475.0000
PT	553125.0009	695305.6503							
LINE			N41°57'07.8"E	14.2024					
PC	553135.5632	695315.1447							
CURVE					11°02'45.5" Right	03°56'45.6"	279.9288	140.3995	1452.0000
PT	553324.4770	695521.1285							
LINE			N52°59'53.3"E	14.7803					
END	553333.3724	695532.9322							

EXISTING ALIGNMENT NAME:EY									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	553289.6444	695476.7293							
LINE			S54°25'45.0"E	32.3272					
PC	553270.8393	695503.0241							
CURVE					37°47'11.1" Left	98°47'09.0"	38.2508	19.8502	58.0000
PT	553260.0597	695539.0055							
LINE			N87°47'04.0"E	58.3506					
PC	553262.3155	695597.3125							
CURVE					07°21'42.7" Right	09°14'28.5"	79.6630	39.8864	620.0000
PT	553260.2797	695676.8947							
LINE			S84°51'13.3"E	126.6341					
PC	553248.9207	695803.0184							
CURVE					15°56'10.6" Left	09°47'38.9"	162.7123	81.8847	585.0000
PT	553256.9054	695965.0100							
LINE			N79°12'36.0"E	31.3376					
END	553262.7721	695995.7935							

EXISTING ALIGNMENT NAME:EY2									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	553001.7488	695788.3991							
LINE			N29°19'40.5"E	286.0514					
END	553251.1372	695928.5091							

I, BRIAN BARWATT, PLS, CERTIFY THAT THE SECONDARY BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION UTILIZING PRIMARY GPS CONTROL SET BY OTHERS; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM 06/23/2025 TO 07/15/2025, AND ALL ELEVATIONS ARE BASED ON NAD 83/NA 2011 AND ALL ELEVATIONS ARE BASED ON NAVD 88; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.100 AS APPLICABLE.

THIS 4TH DAY OF MAY, 2026.

Signed by:
Brian Barwatt
A9355F E84A8A4CE...

PROFESSIONAL LAND SURVEYOR L-4727

NOTES:

1. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

EB-5964
R/W | 02C-4

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4727 LAND SURVEYOR BRIAN A. BARWATT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

TIP PROJECT: EB-5964
County: Macon

PREPARED FOR

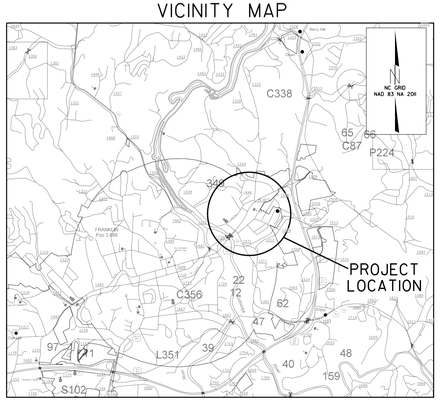
LOCATION AND SURVEYS UNIT

PREPARED BY:

LOCATION AND SURVEYS
DIVISION 14
122 BONNIE LANE
SYLVA, NC 28779

PROJECT: EB-5964

VICINITY MAP



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

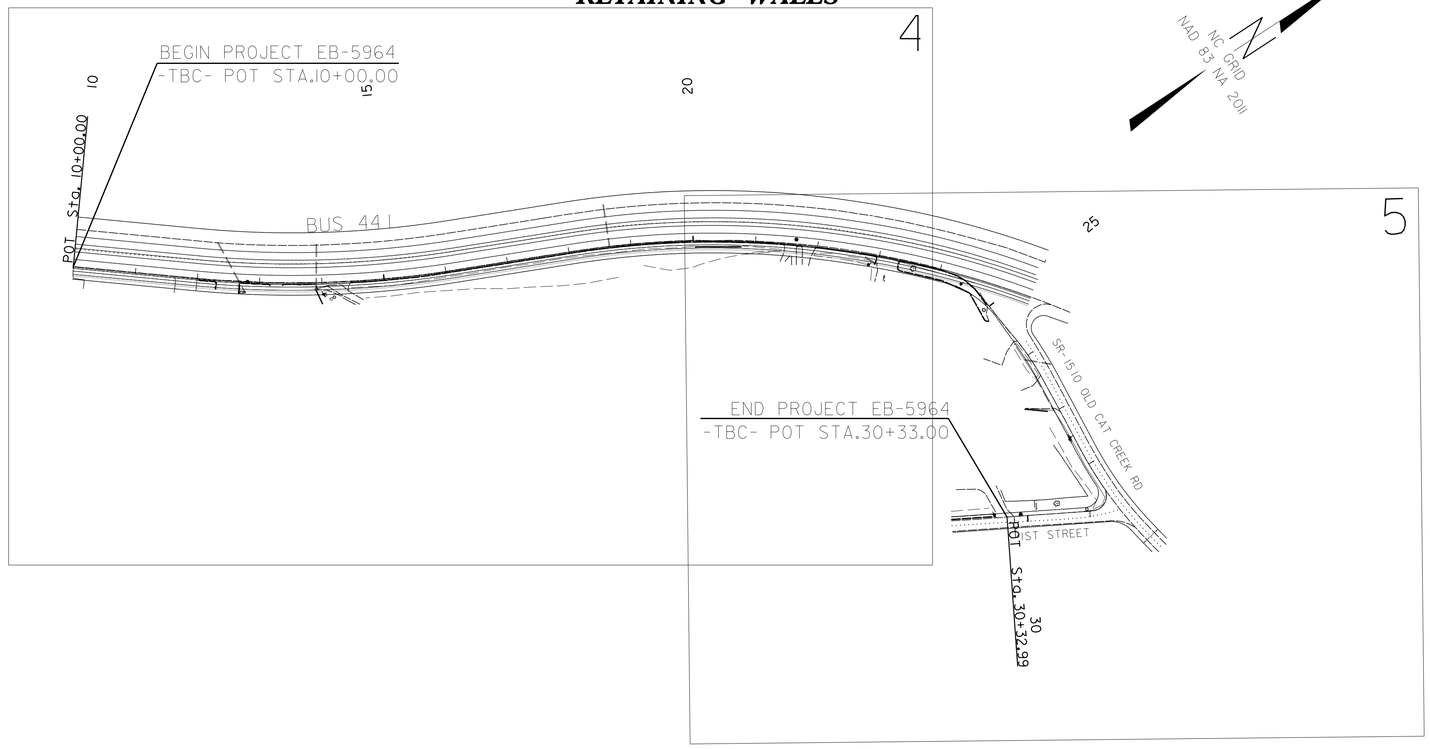
MACON COUNTY

LOCATION: ***ALONG BUSINESS 441, SR-1510 OLD CAT CREEK ROAD AND 1ST STREET***

TYPE OF WORK: ***GRADING, DRAINAGE, PAVING AND RETAINING WALLS***

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	EB-5964	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION



GRAPHIC SCALE

25 12.5 0 25 50

PLANS

DIVISION 14, DISTRICT 3
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.

Prepared In the Office of:

DIVISION 14, DISTRICT 3

191 ROBBINSVILLE ROAD
ANDREWS, NC 28901

2024 STANDARD SPECIFICATIONS

Designed by:

MARSHALL ORR	***4139***
NAME	LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"– Roadway Design Unit – N.C. Department of Transportation – Raleigh, N.C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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\\ncdot.org\dfs\rdh\Projects\Division 14\EB-5964 old cat creek\microstation\pdfs\PLANS_PDFS\PLANS\EB_5964_EC_EC.dsn.dgn
jmarshall

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PROJECT REFERENCE NO.	SHEET NO.
EB-5964	EC-1A

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037962 ENGINEER JESSE ANDREW RUSSELL	

Andy Russell 3/10/2026

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	EW
	Silt Fence Coir Fiber Wattle Break	CFW
1636.03	Excelsior Wattle Barrier	—EW—EW—EW—
1636.03	Coir Fiber Wattle Barrier	—CFW—CFW—CFW—

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	EC-2

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037962 ENGINEER JESSE A. RUSSELL Digitally signed by Andy Russell Date: 2026.02.02 EI617A3F4681430...	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	*STABILIZATION TIME*	*TIMEFRAME EXCEPTIONS*
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	EC-3

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037962 ENGINEER JESSE R. RUSSELL DocuSigned by: Andy Russell 3/2/2026	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-TBC-	10+00	23+85	RT	467
5	-TBC-	23+85	30+33	RT	192
			SUBTOTAL		660
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					10
				TOTAL	670
				SAY	700

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

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PROJECT REFERENCE NO.	SHEET NO.
EB-5964	EC-3A
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

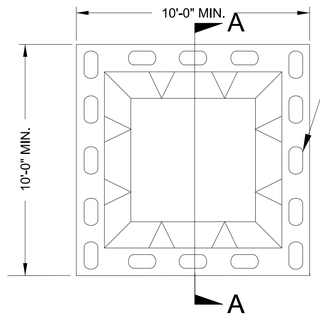
HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 037962 ENGINEER ANDY A RUSSELL

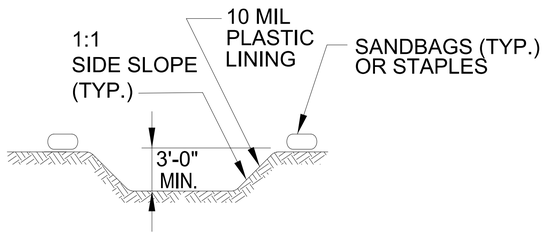
Andy Russell 10/2/2026

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ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN



SECTION A-A



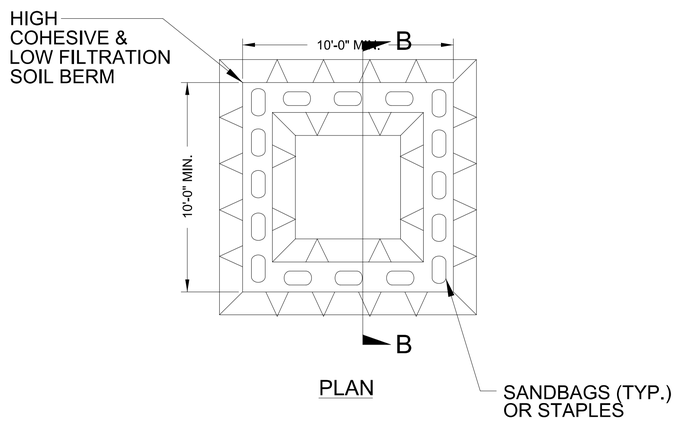
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

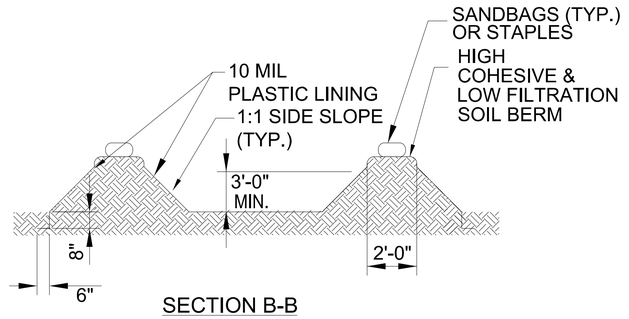
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE



PLAN



SECTION B-B



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	EC4

8/17/99

REVISIONS

NAD 83 NC GRID

BEGIN PROJECT EB-5964
-TBC- POT STA.10+00.00

10

15

20

10+00

23+85

PROP. CURB RAMP STD. 848.06 TYPE I MODIFIED

ADJUST SIGN

SPECIAL SILT FENCE

REMOVE EXIST. GRATE, REPLACE W/ CONC. SLAB LID W/ MANHOLE COVER

ADJUST SIGN

PROP. CONC. SW STD. 848.01

RETAIN EX. WALL, REDUCE CONC. SW WIDTH TO 4 FT AND INSTALL ADJACENT TO BASE OF WALL

PROP. CONC. MEDIAN ISLAND W/ CUT THROUGH TYPE 7 STD. 848.06

REMOVE STUMP

REMOVE TREE

ADJUST MANHOLE

ADJUST SIGN

REMOVE TREE

PROP. CONC. DTO STD. 848.03 **TIE TO EXIST. DW W/S9.5B**

PROP. CONC. DTO STD. 848.03 **TIE TO EXIST. DW W/S9.5B**

BEGIN PROP. CONC. SW STD. 848.01

PROP. CIP GRAVITY RETAINING WALL **SEE XSC FOR DIMENSIONS**

PROP. CONC. DTO STD. 848.03 **TIE TO EXIST. DW W/S9.5B**

PROP. CONC. DTO STD. 848.03 **TIE TO EXIST. DW W/S9.5B**

REMOVE EX. DTO, REPLACE W/ NEW 2'6" CONC. CURB AND GUTTER STD. 846.01

PROP. CONC. DTO STD. 848.03 **TIE TO EXIST. DW W/S9.5B**

DEMOLISH, RE-GRADE AND PAVE EXIST. ASPHALT DW W/ 1.5" S9.5B

TEMP. SILT FENCE

WMH 1 +43.26 -EL- 50.03 EX. RW

+65.52 -EL- 50.01 EX. RW

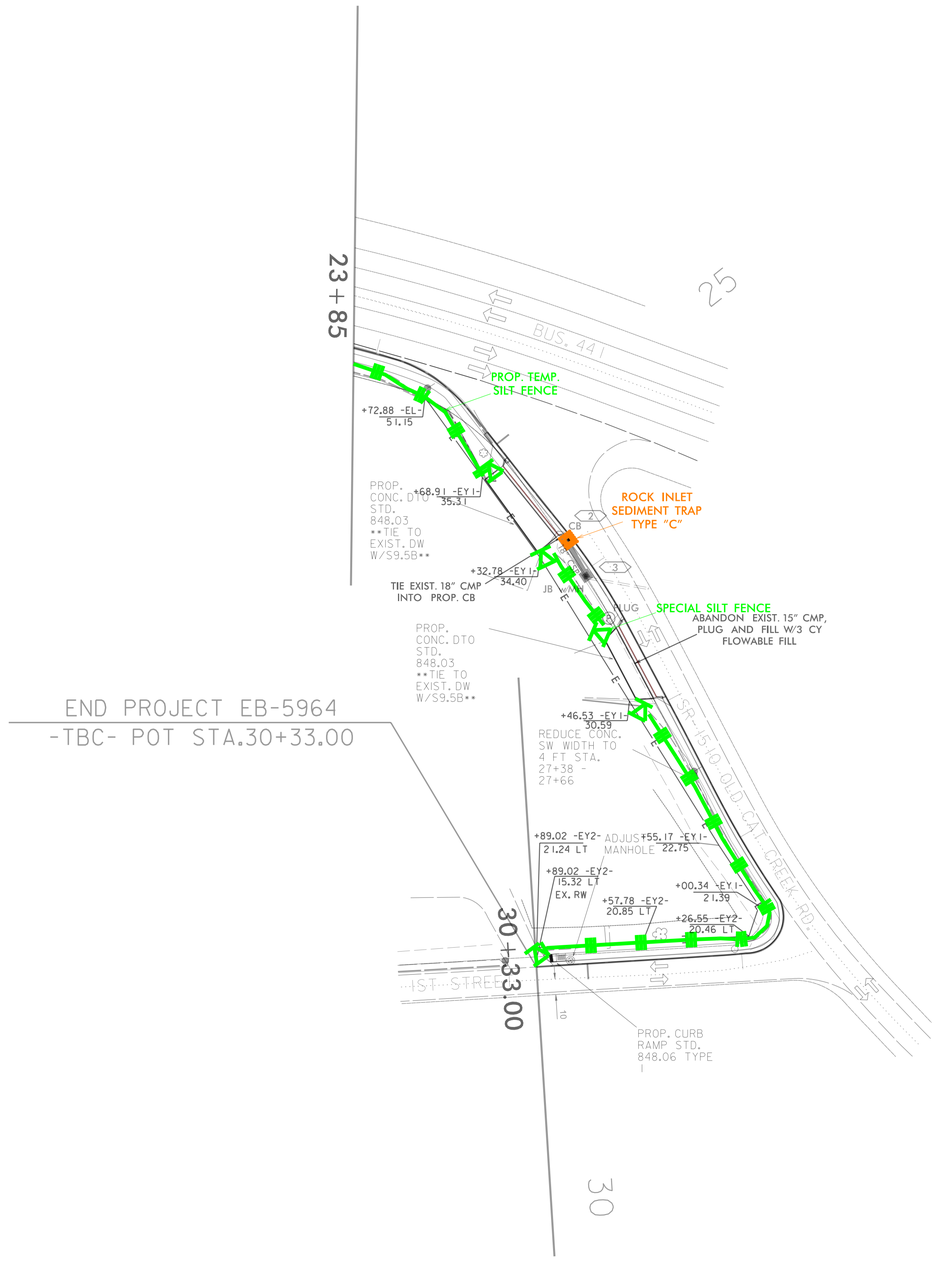
+32.93 -EL- 99.00

USER NAME = $USER
PLOT SCALE = $$
PLOT DATE = $$

PROJECT REFERENCE NO.	SHEET NO.
EB-5964	EC5

8/17/99

REVISIONS



NAD 83 NA 20ft NC GRID N

SYNTHESIS DESIGN ENGINEERING