

## INDEX OF SHEETS

| SHEET NUMBER     | SHEET   |
|------------------|---|
| 1                | TITLE SHEET   |
| 1-A              | INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS |
| 1-B              | CONVENTIONAL SYMBOLS  |
| 1-C              | SURVEY CONTROL DATA   |
| 2                | TYPICAL SECTIONS, AND ROCK PLATING DETAILS                    |
| 2-A              | ANCHOR DETAILS FOR GUARDRAIL POSTS AND REHAB OF HEADWALLS     |
| 4                | PLAN SHEET  |
| TMP-1 THRU TMP-2 | TRANSPORTATION MANAGEMENT PLANS                               |
| UC-1             | SEWER RELOCATION PLAN SHEET                                   |
| X-0 THRU X-12    | CROSS-SECTIONS  |
|                  |   |

EFF. 01-17-2012 REV. 10-30-2012

2012 ROADWAY ENGLISH 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, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.

TITLE

DIVISION 2 - EARTHWORK

200.02 Method of Clearing - Method II

225.02 Guide for Grading Subgrade - Secondary and Local

DIVISION 8 - INCIDENTALS

862.01 Guardrail Placement 862.02 Guardrail Installation PROJECT REFERENCE NO. SHEET NO.

SF-4905C I-A

DIVISION FIVE DESIGN

SEAL
030459

VG I NE

P.E.

GENERAL NOTES:

2012 SPECIFICATIONS

EFFECTIVE; 01-17-2012

REVISED: 07-30-2012

CLEARING:

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

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

SUBSURFACE PLANS:

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

UTILITIES:

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

AT DSFANSTON AT DSFANSSTON

State Line

| PROJECT REPERENCE NO. |  |
|-----------------------|--|
| SF -4905C             |  |

3

AATUR

E.O.I.

### BOUNDARIES AND PROPERTY:

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

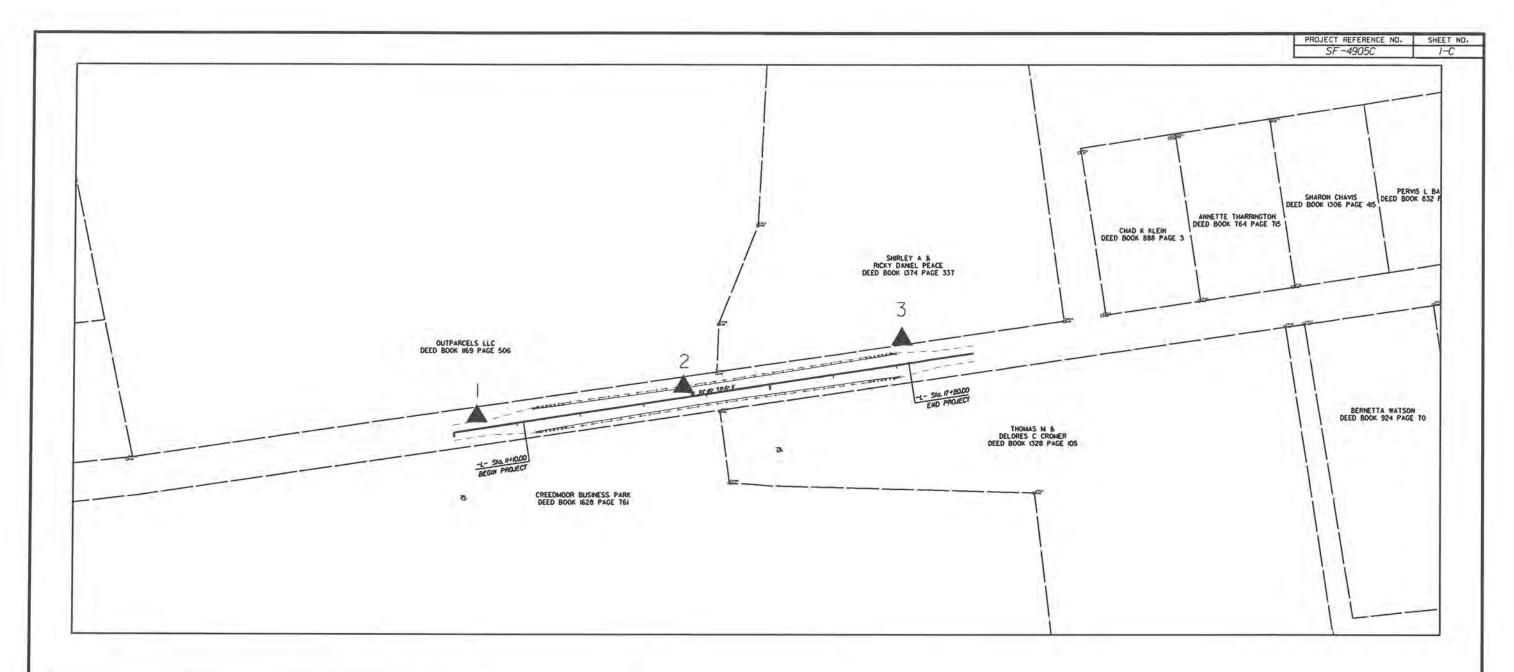
| County Line  |                                       |
|--|---------------------------------------|
| Township Line  | _                                     |
| City Line  |                                       |
| Reservation Line   |                                       |
| Property Line  |                                       |
| Existing Iron Pin  |                                       |
| Property Corner  |                                       |
| Property Monument  |                                       |
| Parcel/Sequence Number   |                                       |
| Existing Fence Line  |                                       |
| Proposed Woven Wire Fence  |                                       |
| Proposed Chain Link Fence  |                                       |
| Proposed Barbed Wire Fence   |                                       |
| Existing Wetland Boundary  |                                       |
| Proposed Wetland Boundary  |                                       |
| Existing Endangered Animal Boundary  | FAR                                   |
| Existing Endangered Plant Boundary   |                                       |
| Known Soil Contamination: Area or Site   |                                       |
|  |                                       |
| Potential Soil Contamination: Area or Site —   |                                       |
| BUILDINGS AND OTHER CULT   | 12.017.00                             |
| And the state of t |                                       |
| Gas Pump Vent or U/G Tank Cap  | _ 0                                   |
| Sign —   | _ O                                   |
| Sign — Well — Well   |                                       |
| Sign — Well — Small Mine   | —                                     |
| Sign Well Small Mine Foundation  | —                                     |
| Sign — Well — Small Mine — Foundation — Area Outline —   | —                                     |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery   | —                                     |
| Sign Well Small Mine Foundation Area Outline Cemetery Building   | —                                     |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School   | —                                     |
| Sign Well Small Mine Foundation Area Outline Cemetery Building   | —                                     |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School   | —                                     |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  | —                                     |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  | * * * * * * * * * * * * * * * * * * * |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water   |                                       |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir   |                                       |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  | ♀ ♀                                   |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1   | ♀ ♀<br>♀                              |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2  | ♀ ♀<br>♀                              |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2  Flow Arrow  | ©                                     |
| Sign Well Small Mine Foundation Area Outline Cemetery Building School Church Dam  HYDROLOGY: Stream or Body of Water Hydro, Pool or Reservoir Jurisdictional Stream Buffer Zone 1 Buffer Zone 2 Flow Arrow Disappearing Stream   | ©                                     |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2  Flow Arrow  | ©                                     |
| Sign  Well  Small Mine  Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2  Flow Arrow  Disappearing Stream  Spring   | ©                                     |

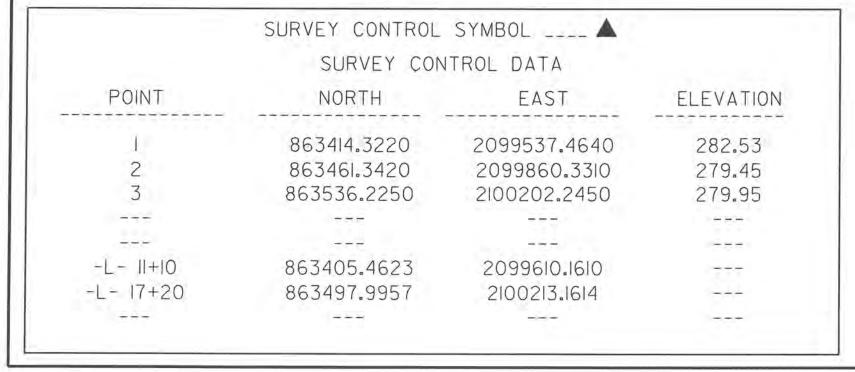
# CONVENTIONAL PLAN SHEET SYMBOLS

| RAILROADS:   |   |
|--|---|
| Standard Gauge   | CSX TRANSPORTATION  |
| RR Signal Milepost   | CSX TRANSPORT AT ION  O  MILEPOST 35  |
| Switch   |   |
| RR Abandoned   | SWITCH  |
| RR Dismantled  |   |
| RIGHT OF WAY:  |   |
| Baseline Control Point                                     |   |
| Existing Right of Way Marker                               |   |
| Existing Right of Way Line                                 |   |
| Proposed Right of Way Line                                 |   |
| Proposed Right of Way Line with<br>Iron Pin and Cap Marker | <b>⊕</b>  |
| Proposed Right of Way Line with Concrete or Granite Marker |   |
| Existing Control of Access                                 |   |
| Proposed Control of Access                                 |   |
| Existing Easement Line                                     | •   |
| Proposed Temporary Construction Easement -                 |   |
| Proposed Temporary Drainage Easement                       |   |
| Proposed Permanent Drainage Easement —                     |   |
| Proposed Permanent Drainage / Utility Easeme               |   |
| Proposed Permanent Utility Easement                        |   |
| Proposed Temporary Utility Easement                        |   |
| Proposed Aerial Utility Easement                           | AUE   |
| Proposed Permanent Easement with                           | AGE   |
| Iron Pin and Cap Marker                                    | IFC.  |
| ROADS AND RELATED FEATUR                                   | ES:   |
| Existing Edge of Pavement                                  |   |
| Existing Curb  | C   |
| Proposed Slope Stakes Cut                                  | <u>-</u>  |
| Proposed Slope Stakes Fill                                 |   |
| Proposed Curb Ramp   | CR  |
| Existing Metal Guardrail                                   |   |
| Proposed Guardrail   | _T_T_T_T_   |
| Existing Cable Guiderail                                   | п п п   |
| Proposed Cable Guiderail                                   | _ n _ n _ n _   |
| Equality Symbol  | •   |
| Pavement Removal   | $\otimes\!$ |
| VEGETATION:  |   |
| Single Tree  | <b>&amp;</b>  |
| Single Shrub   | •   |
| Hedge —  |   |
| Woods Line   |   |

| Orchard —  |  | Water Valve  |
|--|--|--|
| Vineyard   | Vinayord   | Water Hydrant  |
| Vineyara   | Vineyard   | Recorded U/G Water Line  |
| EXISTING STRUCTURES:   |  | Designated U/G Water Line (S.U.E.*)  |
| MAJOR:   |  | Above Ground Water Line  |
| Bridge, Tunnel or Box Culvert                                  | CONC   |  |
| Bridge Wing Wall, Head Wall and End Wall                       | The second secon | TV:  |
| MINOR:   | ) (  | TV Satellite Dish  |
| Head and End Wall  | CONC HW  | TV Pedestal  |
| Pipe Culvert   |  | TV Tower   |
| Footbridge>  | · · · · · · · · · · · · · · · · · · ·  | U/G TV Cable Hand Hole   |
|  |  | Recorded U/G TV Cable  |
| Drainage Box: Catch Basin, DI or JB  Paved Ditch Gutter        |  | Designated U/G TV Cable (S.U.E.*)  |
| Storm Sewer Manhole  |  | Recorded U/G Fiber Optic Cable   |
| Storm Sewer Mannole  |  | Designated U/G Fiber Optic Cable (S.U.E.*)   |
| Storm Sewer  |  |  |
| UTILITIES:   |  | GAS:   |
| POWER:   |  | Gas Valve  |
| Existing Power Pole  | 1  | Gas Meter  |
| Proposed Power Pole  | ò  | Recorded U/G Gas Line  |
| Existing Joint Use Pole  | -  | Designated U/G Gas Line (S.U.E.*)  |
| Proposed Joint Use Pole  | -6-  | Above Ground Gas Line  |
| Power Manhola  |  |  |
| Power Line Tower   | (P)  | SANITARY SEWER:  |
| Power Transformer  |  | Sanitary Sewer Manhole   |
|  |  | Sanitary Sewer Cleanout  |
| U/G Power Cable Hand Hole ———————————————————————————————————— |  | L/G Sanitary Sewer Line  |
|  |  | Above Ground Sanitary Sewer  |
| Recorded U/G Power Line  |  | Recorded SS Forced Main Line   |
| Designated U/G Power Line (S.U.E.*)                            |  | Designated SS Forced Main Line (S.U.E.*) —   |
| ELEPHONE:  |  | and the first than th |
|  |  | MISCELLANEOUS:   |
| Existing Telephone Pole  | •  | Utility Pole   |
| Proposed Telephone Pole  | -0-  | Utility Pole with Base —   |
| Telephone Manhole  | •  | Utility Located Object   |
| Telephone Booth  | 3  | Utility Traffic Signal Box   |
| Telephone Pedestal   | Ш  | Utility Unknown U/G Line   |
| Telephone Cell Tower   | ,Ā,  | L/G Tank; Water, Gas, Oil  |
| U/G Telephone Cable Hand Hole                                  |  | Underground Storage Tank, Approx. Loc.   |
| Recorded U/G Telephone Cable                                   |  | A/G Tank; Water, Gas, Oil  |
| Designated U/G Telephone Cable (S.U.E.*)—                      |  |  |
| Recorded L/G Telephone Conduit                                 | 75-  | Geoenvironmental Boring  |
| Designated U/G Telephone Conduit (S.U.E.*)                     |  | U/G Test Hole (S.U.E.*)  |
| Recorded U/G Fiber Optics Cable                                | 7 10-  | Abandoned According to Utility Records   |
| Designated U/G Fiber Optics Cable (S.U.E.*)                    | t ro   | End of Information —   |

| WATER:                                      |                    |
|---|--------------------|
| Water Manhole                               |                    |
| Water Meter                                 |                    |
| Water Valve                                 |                    |
| Water Hydrant                               |                    |
| Recorded U/G Water Line                     |                    |
| Designated U/G Water Line (S.U.E.*)         |                    |
| Above Ground Water Line                     |                    |
|   |                    |
| TV:   |                    |
| TV Satellite Dish                           | K                  |
| TV Padestal                                 |                    |
| TV Tower                                    | $\otimes$          |
| U/G TV Cable Hand Hole                      | E                  |
| Recorded U/G TV Cable                       | ту                 |
| Designated U/G TV Cable (S.U.E.*)           |                    |
| Recorded U/G Fiber Optic Cable              |                    |
| Designated U/G Fiber Optic Cable (S.U.E.*)— |                    |
|   |                    |
| GAS:  |                    |
| Gas Valve                                   | 1,4                |
| Gas Meter                                   |                    |
| Recorded U/G Gas Line                       |                    |
| Designated U/G Gas Line (S.U.E.*)           |                    |
| Above Ground Gas Line -                     | A/G Gos            |
|   |                    |
| SANITARY SEWER:                             |                    |
| Sanitary Sewer Manhole                      | (1)                |
| Sanitary Sewer Cleanout                     | <b>(</b>           |
| U/G Sanitary Sewer Line —                   | s                  |
| Above Ground Sanitary Sewer                 | A/G Sanitary Sewer |
| Recorded SS Forced Main Line                |                    |
| Designated SS Forced Main Line (S.U.E.*) —  |                    |
| MISCELLANEOUS:                              |                    |
| Utility Pole —                              |                    |
| Utility Pole with Base                      |                    |
| Utility Located Object                      |                    |
|   |                    |
| Utility Traffic Signal Box                  |                    |
| Utility Unknown U/G Line                    |                    |
| L/G Tank; Water, Gas, Oil                   |                    |
| Underground Storage Tank, Approx. Loc.      | (400-40)           |
| A/G Tank; Water, Gas, Oil —                 |                    |
| Geoenvironmental Baring —                   | 8                  |





#### SURVEY CONTROL DATA NC 56 @ Roberson Creek

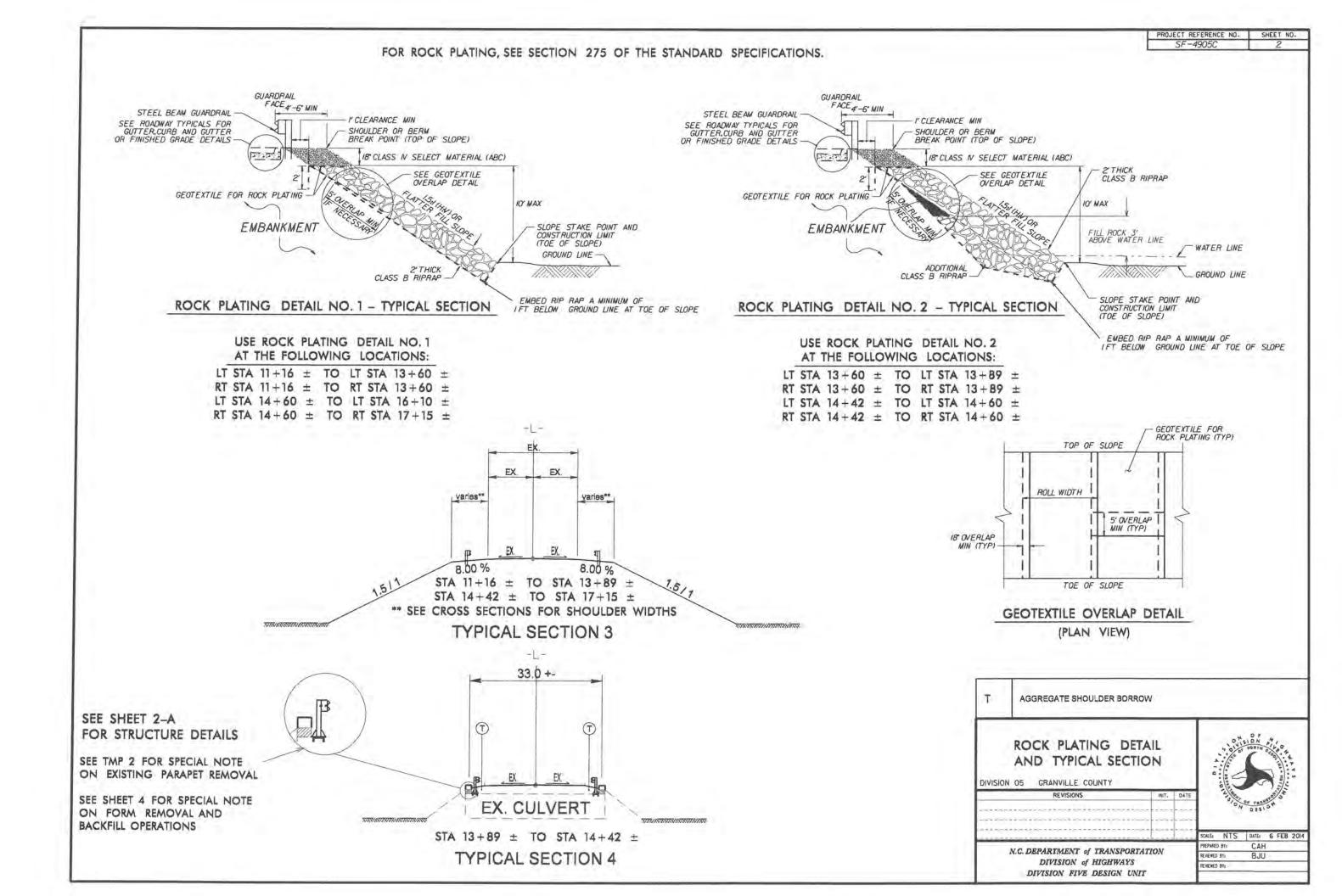
DIVISION 05 GRANVILLE COUNTY

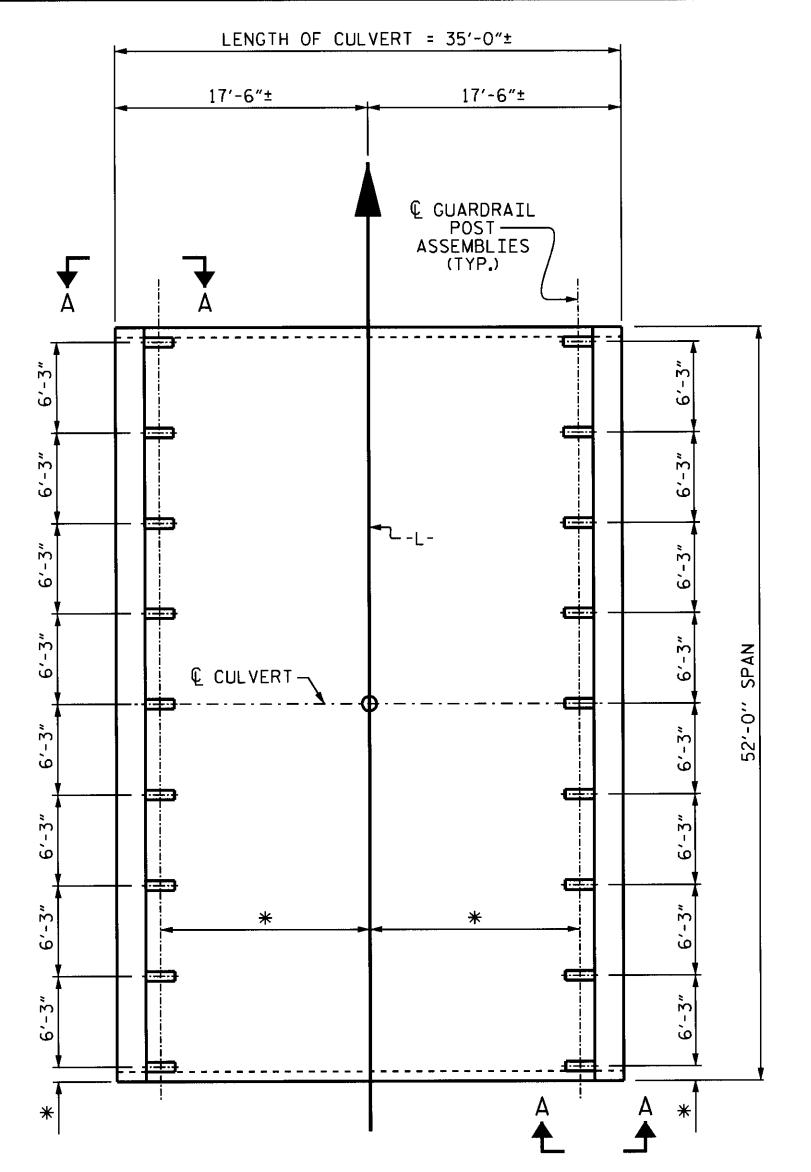
REVISIONS INT. DATE

N.C. DEPARIMENT of TRANSPORTATION
DIVISION of HIGHWAYS
DIVISION FIVE DESIGN UNIT



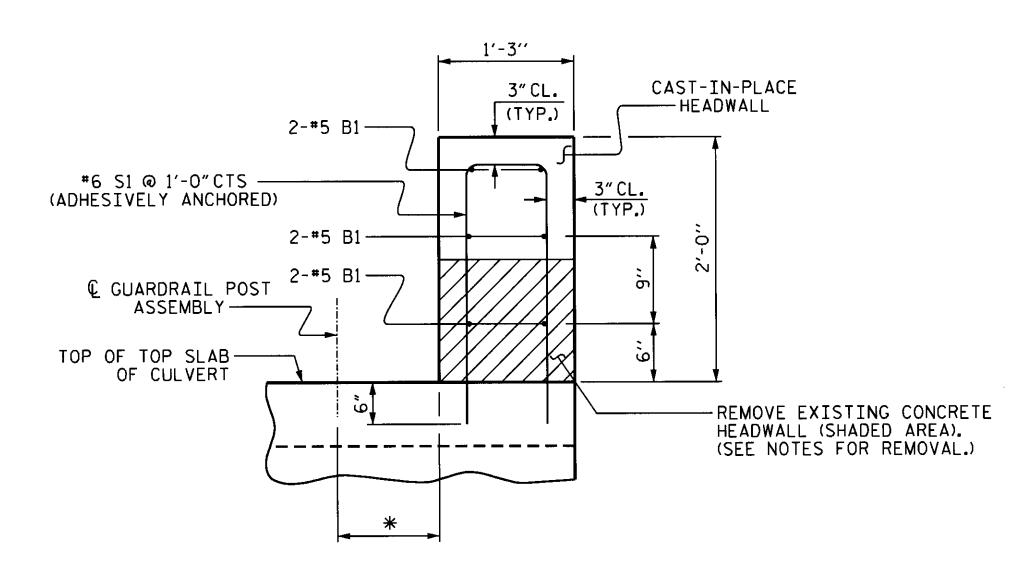
SOURS N/A DATE OF FEB 2014
PREPARED BY: CAH
REVEWED BY: BJU
REVIOUS BY:





# PLAN OF CULVERT GUARDRAIL POST SPACING

\* THIS DIMENSION TO BE DETERMINED BY THE ENGINEER.



# SECTION THRU HEADWALL

RIGHT SIDE SHOWN, LEFT SIDE SIMILAR. \* THIS DIMENSION TO BE DETERMINED BY THE ENGINEER.

ASSEMBLED BY : E. I. OMILE CHECKED BY : P. K. NEWTON DATE : 10/22/12

DRAWN BY : FCJ 6/88 REV. 7/10/01 REV. 5/7/03 REV. 5/1/06

CHECKED BY : ARB 6/88 REV. 5/1/06

CHECKED BY : ARB 6/88

NOTES

ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE 1" Ø AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.

ALL GUARDRAIL ATTACHMENTS TO THE CULVERT SHALL BE MADE USING ADHESIVELY ANCHORED ANCHOR BOLTS. LEVEL TWO FIELD TESTING IS REQUIRED, AND THE YIELD LOAD OF THE 1"Ø BOLT IS 21.8 KIPS. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SECTION 420-13 OF THE STANDARD SPECIFICATIONS.

PAYMENT FOR GUARDRAIL POST ASSEMBLIES IS INCLUDED IN THE GUARDRAIL PAY ITEM.

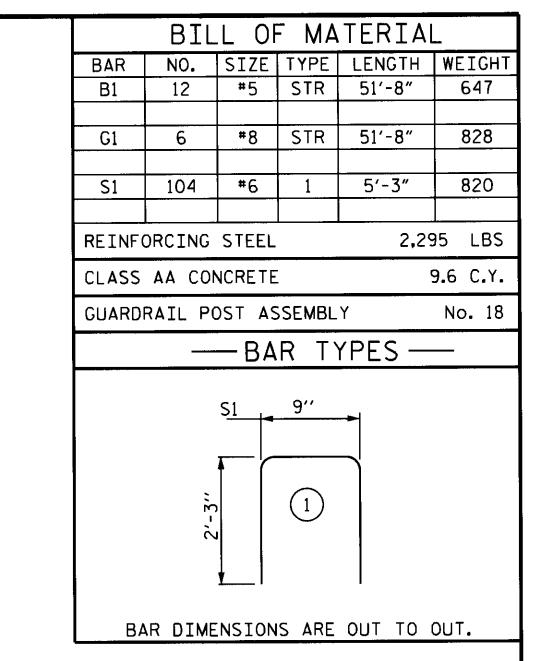
FOR GUARDRAIL POST ASSEMBLY DETAILS, SEE ROADWAY STANDARD DRAWING No. 862.03, SHEET 7 OF 7.

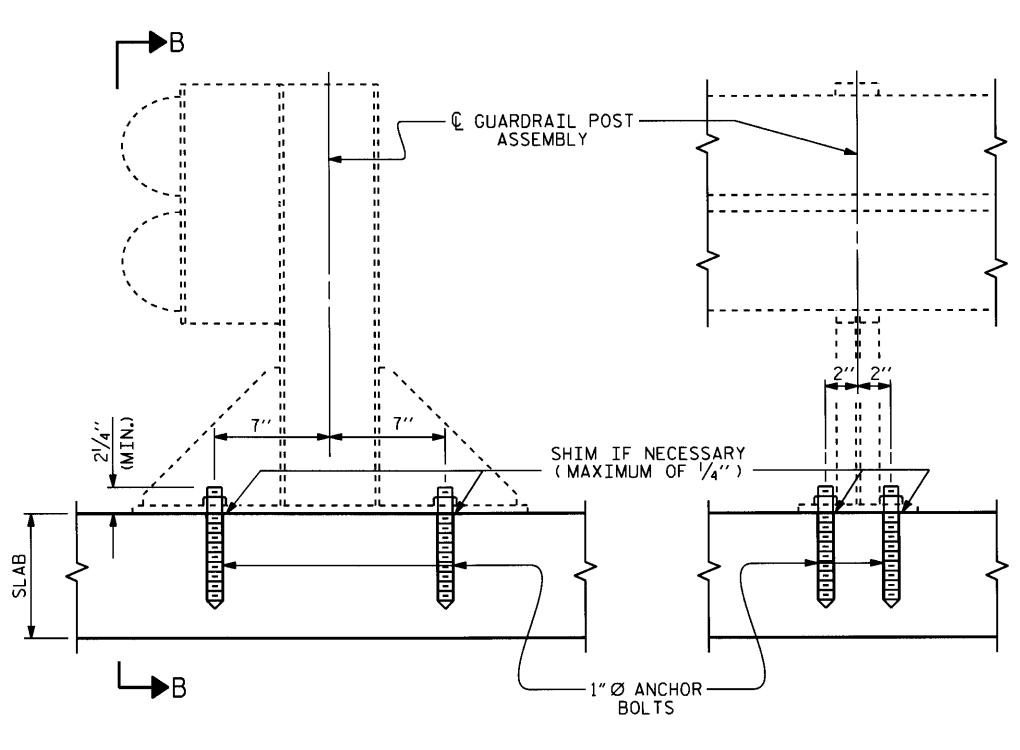
INSTALL #6 S1 BARS IN THE EXISTING SLAB USING AN ADHESIVE ANCHORING SYSTEM. THE YIELD LOAD OF THE BARS IS 26.4 KIPS. LEVEL ONE FIELD TESTING OF THE ANCHORING SYSTEM IS REQUIRED. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SECTION 420-13 OF THE STANDARD SPECIFICATIONS.

CLASS AA CONCRETE SHALL BE USED FOR THE CAST-IN-PLACE HEADWALL.

UPON REMOVAL OF EXISTING HEADWALLS, ANY REINFORCING STEEL WHICH IS EMBEDDED IN THE TOP SLAB OF THE CULVERT SHALL BE RETAINED, CLEANED, AND FREE OF RUST TO THE SATISFACTION OF THE ENGINEER.

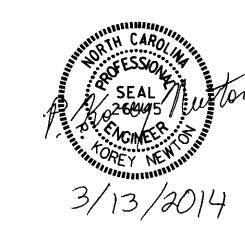
UPON REMOVAL OF EXISTING HEADWALLS, ANY DAMAGE TO THE EXISTING CULVERT SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REPAIRS.





SECTION A-A

SECTION B-B



PROJECT NO. SF-4905C

GRANVILLE COUNTY

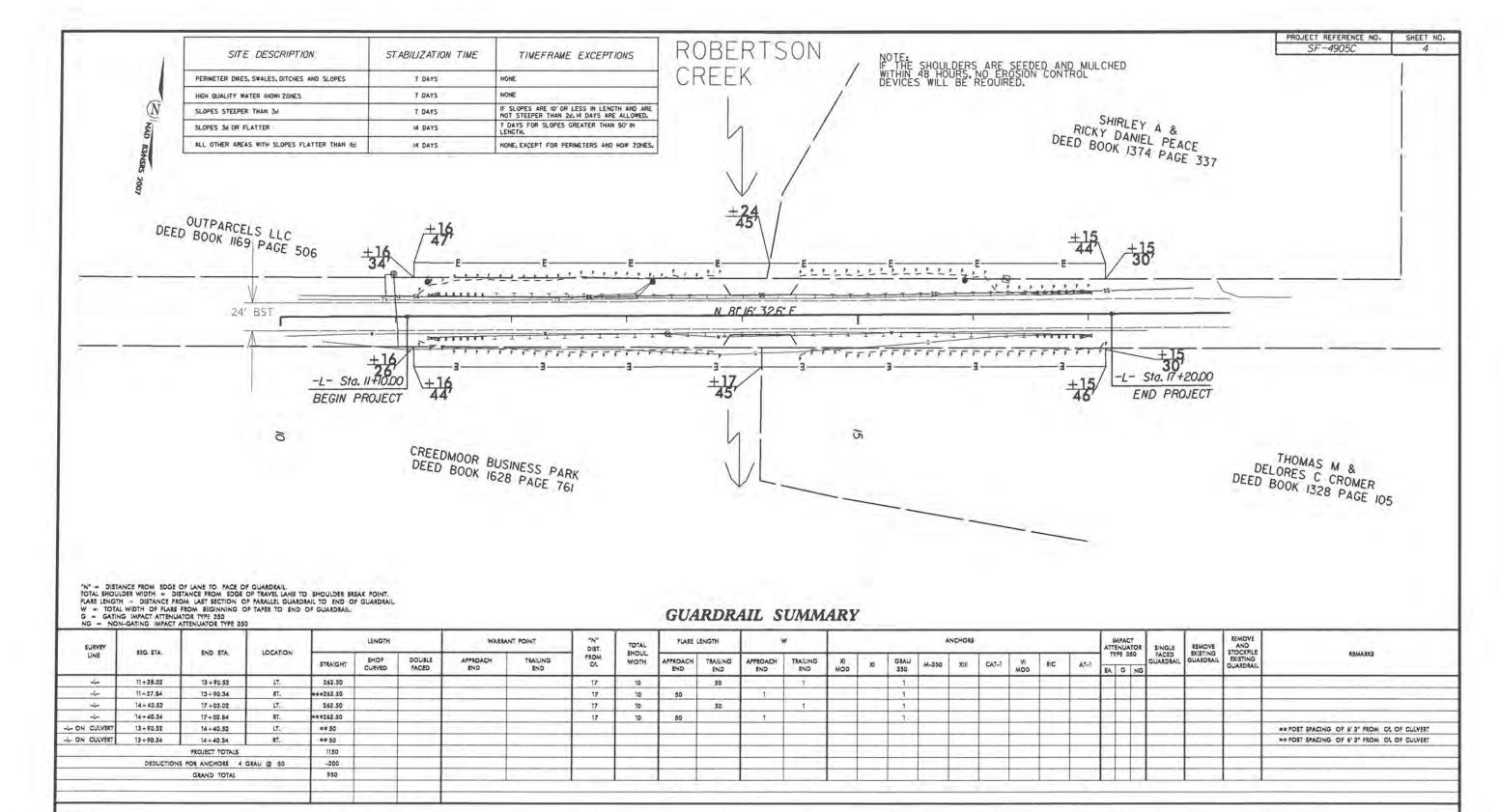
STATION:

REHABILIATE CULVERT # COO8

DEPARTMENT OF TRANSPORTATION
RALEIGH

ANCHORAGE DETAILS
FOR GUARDRAIL POSTS
AND
REHABILATION
OF HEADWALLS

|     |     | SHEET NO. |     |     |       |     |
|-----|-----|-----------|-----|-----|-------|-----|
| NO. | BY: | DATE:     | NO. | BY: | DATE: | 2-A |
| 1   |     |           | 3   |     |       |     |
| 2   |     |           | 4   |     |       |     |



NOTE:
THE STRUCTURE MOUNTED GUARDRAIL
(ROADWAY STANDARD 862,03 SHEET 7 OF 7)
WILL BE PAID AS PER THE STANDARD PAY
ITEM FOR STEEL BEAM GUARDRAIL, NO
ADDITIONAL COMPENSATION WILL BE
PROVIDED.

CONTRACTOR IS RESPONSIBLE TO DETERMINE HOW MANY GUARDRAIL POST ANCHORS ARE REQUIRED TO COMPLETE INSTALLATION.

GUARDRAIL TO BE PLACED PRIOR TO REMOVAL OF PARAPET. (SEE SPECIAL NOTE ON TMP SHEET 2)

\*\*\*NOTE: THE CLEAR SPAN GUARDRAIL (ROADWAY STANDARD 862.01 SHEET 10 OF 12) WILL BE PAID AS PER THE STANDARD PAY ITEM FOR STEEL BEAM GUARDRAIL, NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

SHOULD IT BE DEEMED THAT EITHER ONE OR BOTH OF THE CLEAR SPAN GUARDRAIL SECTIONS ARE NOT REQUIRED, THE CONTRACTOR WILL INSTALL STEEL BEAM GUARDRAIL AND WILL BE PAID AS PER THE STANDARD PAY ITEM FOR STEEL BEAM GUARDRAIL, NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

REFER TO UTILITY PLAN FOR CLEAR SPAN LOCATIONS AND AS DIRECTED BY THE ENGINEER.

SPECIAL NOTE: AS SOON AS THE PROPOSED CONCRETE PARAPET REACHES 2400 PSI, CONTRACTOR IS TO REMOVE FORMS AND BACKFILL REMAINING AREA



#### Guardrail Install NC 56 @ Roberson Creek

GRANVILLE COUNTY DIVISION 05 REVISIONS INIT. DATE

> N.C. DEPARTMENT of TRANSPORTATION DIVISION of HIGHWAYS DIVISION FIVE DESIGN UNIT



SCALE: 40'=1" DATE: 25 FEB 2014 PREPARED BY: CAH REVIEWED BY BJU REVIEWED BY:

# TRANSPORTATION MANAGEMENT PLAN

# GRANVILLE COUNTY

## ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| 0.7 | TD. | NO   |  |
|-----|-----|------|--|
| -   | 11) | MILL |  |
|     |     | 140  |  |

43467

**PROJECT** 

TITLE

| 1101.01<br>1101.02<br>1101.04<br>1101.11<br>1110.01 | WORK ZONE WARNING SIGNS<br>TEMPORARY LANE CLOSURES<br>TEMPORARY SHOULDER CLOSURES<br>TRAFFIC CONTROL DESIGN TABLES<br>STATIONARY WORK ZONE SIGNS |
|---|--|
| 1110.02<br>1115.01                                  | PORTABLE WORK ZONE SIGNS   |
| 1130.01   | FLASHING ARROW BOARDS<br>DRUMS   |
| 1135.01   | CONES  |
| 1150.01   | FLAGGING DEVICES   |
| 1180.01   | SKINNY - DRUM  |

## INDEX OF SHEETS

#### SHEET NO.

TMP-1

TMP-2

#### TITLE

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, INDEX OF SHEETS AND LEGEND

PROJECT NOTES

## LEGEND

#### GENERAL

DIRECTION OF TRAFFIC FLOW

NORTH ARROW

PROPOSED PVMT. --- EXIST. PVMT.

WORK AREA

REMOVAL OF EXISTING PAVEMENT

#### TRAFFIC CONTROL DEVICES

I TYPE I BARRICADE

II TYPE II BARRICADE

TYPE III BARRICADE

CONE

DRUM

FLASHING ARROW PANEL (TYPE C)

TYPE 'B' WARNING LIGHT

- STATIONARY SIGN

PORTABLE SIGN

WARNING FLAGS

- CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

POLICE

\_\_\_ FLAGGER

#### PAVEMENT MARKINGS

CRYSTAL PAVEMENT MARKER

YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

A PAVEMENT MARKING SYMBOLS

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

| JECT REPERENCE NO. | SHEET NO.    |
|--------------------|--------------|
| 4905C              | TMP-2        |
| F. A. PROJ. NO.    | DIRSCRIPTION |
|                    | PE           |
|                    | 4905C        |

# TRANSPORTATION MANAGEMENT PLAN WAKE COUNTY

#### PROJECT NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

NC 56

MONDAY THRU FRIDAY 7AM TO 9AM & 4PM TO 6PM

LANE AND SHOULDER CLOSURE REQUIREMENTS

- B) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

F) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

- INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- I) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

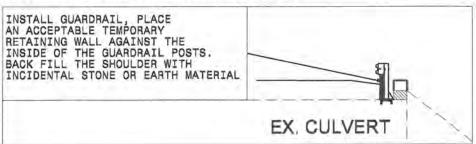
TRAFFIC CONTROL DEVICES

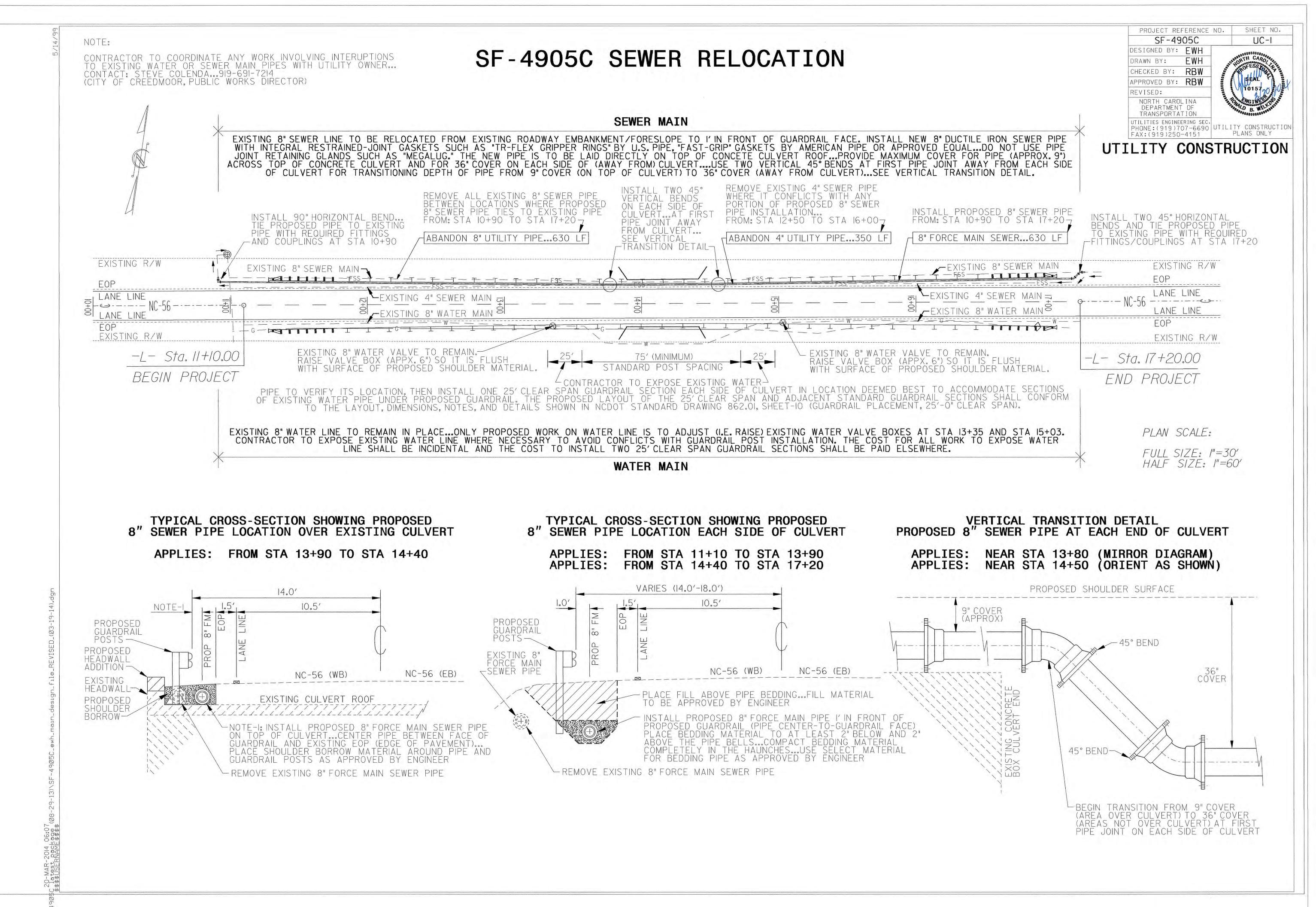
J) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

#### SPECIAL NOTES

- 1. CONTRACTOR WILL BE REQUIRED TO BACKFILL ANY OPEN TRENCHES AT THE END OF EACH DAY PRIOR TO OPENING LANES TO TRAFFIC.
- CONTRACTOR SHALL COMPLETE THE FOLLOWING WORK PRIOR TO THE REMOVAL OF EXISTING PARAPET:

INSTALL THE PROPOSED GUARDRAIL, PLACE AN ACCEPTABLE TEMPORARY RETAINING WALL TO CONTAIN THE BACK FILL MATERIAL NEEDED FOR THE SHOULDER. (TEMPORARY RETAINING WALL MAY BE PLACED AGAINST THE INSIDE OF THE GUARDRAIL POSTS.)
BACK FILL THE SHOULDER WITH INCIDENTAL STONE OR EARTH MATERIAL, THEN PROCEED WITH WORK ON THE PARAPETS.





# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

 PROJ. REFERENCE NO.
 SHEET NO.

 SF-4905C
 X-0

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

#### **CROSS-SECTION SUMMARY**

| Station      | Uncl. Exc. | Embt      |   |   |  | ECTION |   |   |  |                 |                  |                                  |          |   |   |
|--------------|------------|-----------|---|---|--|--------|---|---|--|-----------------|------------------|----------------------------------|----------|---|---|
|              | (au ard)   | (au aud)  |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| L            | (cu. yd.)  | (cu. yd.) |   |   |  | _      |   |   |  |                 |                  |                                  |          |   |   |
| 1130         | 0          | 0         |   |   |  | +      |   |   |  |                 |                  |                                  |          | 4 |   |
| 1140<br>1150 | 0          | 1         |   |   |  | -      |   | - |  | -               | -                |                                  |          | - |   |
| 1160         | 0          | 2         |   | - |  | -      |   | - |  |                 | -                |                                  | -        |   | - |
| 1170         | 0          | 2         |   | - |  |        |   |   |  |                 | -                |                                  |          | - | - |
| 1180         | 0          | 2         |   | _ |  |        |   |   |  |                 | +                | -                                |          |   |   |
| 1190         | 0          | 2         |   |   |  |        | - |   |  |                 |                  |                                  |          |   |   |
| 1200         | 0          | 3         |   |   |  |        | - |   |  |                 |                  |                                  |          |   |   |
| 1210         | 0          | 5         |   |   |  |        |   | 1 |  |                 | 1                |                                  | +        |   |   |
| 1220         | 0          | 5         |   |   |  |        |   |   |  |                 | +                |                                  |          |   |   |
| 1230         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  | -        |   | - |
| 1240         | 0          | 4         |   |   |  |        | - |   |  | -               | _                |                                  | -        |   | - |
| 1250         | 0          | 4         |   |   |  |        |   |   |  | -               |                  |                                  |          |   | - |
| 1260         | 0          | 5         |   |   |  |        | - |   |  |                 |                  |                                  |          |   |   |
| 1270         | 0          | 5         |   |   |  |        |   |   |  |                 | +                |                                  | -        |   | - |
| 1280         | 0          | 5         |   |   |  |        |   |   |  |                 |                  |                                  | +        |   |   |
| 1290         | 0          | 5         |   |   |  |        |   | 1 |  |                 |                  |                                  |          | - |   |
| 1300         | 0          | 6         |   |   |  |        | 1 |   |  |                 | 1                |                                  |          |   |   |
| 1310         | 0          | 5         |   |   |  |        |   |   | -                                      |                 |                  | -                                |          |   |   |
| 1320         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  |          |   | - |
| 1330         | 0          | 3         |   |   |  |        |   |   | -                                      |                 |                  | -                                | -        |   |   |
| 1340         | 0          | 3         |   |   |  |        |   |   |  |                 |                  | +                                |          |   | - |
| 1350         | 0          | 3         |   |   |  |        |   |   |  |                 |                  |                                  |          |   | - |
| 1360         | 0          | 3         |   |   |  |        |   |   |  |                 |                  |                                  |          |   | - |
| 1370         | 0          | 5         |   |   |  |        |   |   |  |                 | -                |                                  |          | + | - |
| 1380         | 0          | 10        |   |   |  |        |   |   |  |                 |                  |                                  | -        |   |   |
| 1450         | 0          | 10        |   |   |  |        | - |   |  |                 | -                |                                  | -        |   |   |
| 1460         | 0          |           |   |   |  |        | - |   |  |                 | -                | -                                | -        |   | - |
| 1470         | 0          | 5         |   |   |  |        |   |   |  |                 | -                |                                  |          | 1 |   |
| 1480         | 0          | 5         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1490         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  | -        |   |   |
| 1500         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  |          |   | - |
|              |            | 5         |   |   |  |        |   |   |  |                 |                  |                                  | -        |   |   |
| 1510         | 0          | 4         |   |   |  | -      |   |   |  |                 |                  |                                  |          |   |   |
| 1520         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1530         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1540         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1550         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1560         | 0          | 4         |   |   |  |        |   |   | Approximate q                          | uantities only. | Unclassified ex  | cavation, borrovearing and grubb | V<br>Imm |   |   |
| 1570         | 0          | 5         |   |   |  |        |   |   | breaking of exi                        | sting navemen ( | and removal o    | f existing pavem                 | ent      |   |   |
| 1580         | 0          | 6         |   |   |  |        |   |   | will be paid for                       | at the lump sur | n price for "Gra | ading".                          |          |   |   |
| 1590         | 0          | 6         |   |   |  |        |   |   | ************************************** | -               | 4                | 1                                | 1        |   |   |
| 1600         | 0          | 6         |   |   |  |        |   |   |  |                 |                  |                                  | 1        |   |   |
| 1610         | 0          | 6         |   |   |  |        |   |   |  |                 | -                |                                  |          |   |   |
| 1620         | 0          | 6         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1630         | 0          | 6         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1640         | 0          | 4         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1650         | 0          | 3         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1660         | 0          | 2         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1670         | 0          | 2         |   |   |  |        |   | 1 |  |                 |                  |                                  |          |   |   |
| 1680         | 0          | 2         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1690         | 0          | 2         | 4 |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
| 1700         | 0          | 3         |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |
|              |            | 207       |   |   |  |        |   |   |  |                 |                  |                                  |          |   |   |

