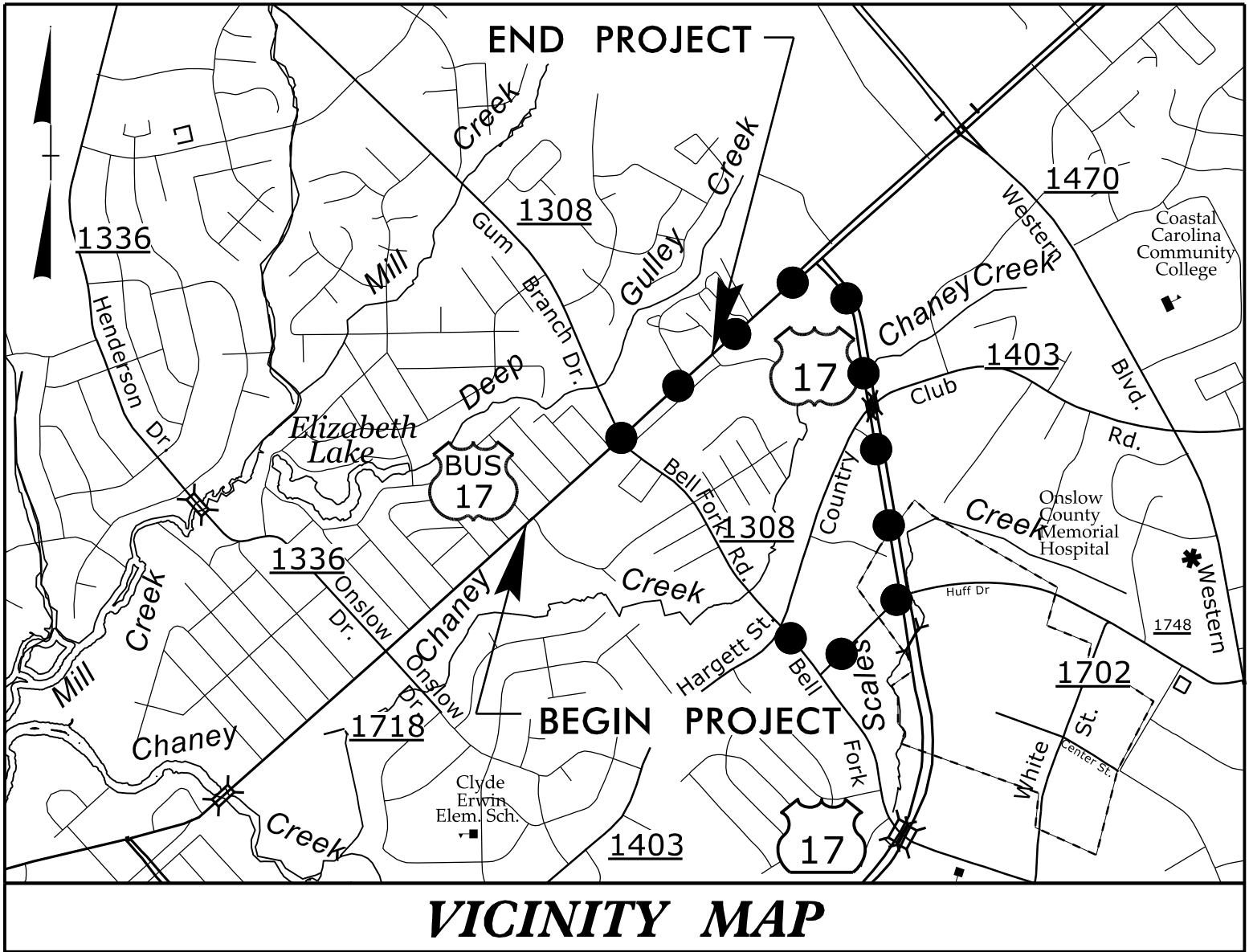


09/08/2019

See Sheet I-A For Index of Sheets  
See Sheet I-B For Conventional Plan Sheet Symbols



VICINITY MAP

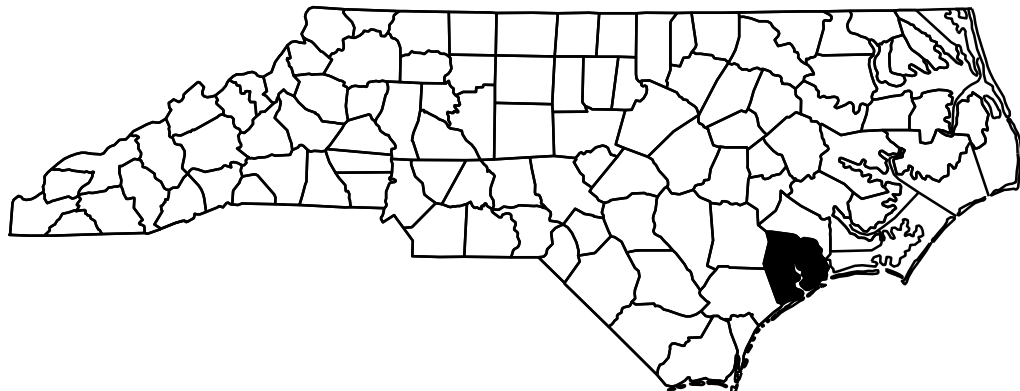
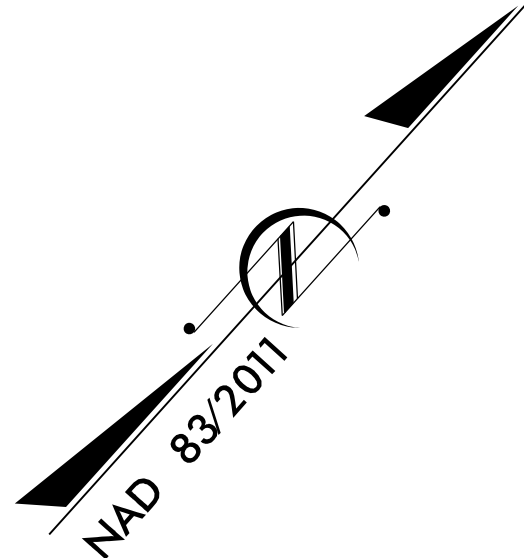
OFF SITE DETOUR ● ● ●

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

ONSLOW COUNTY

LOCATION: CITY OF JACKSONVILLE -  
US 17 BUSINESS (MARINE BOULEVARD) AT  
SR 1308 (BELL FORK RD./GUM BRANCH RD.)

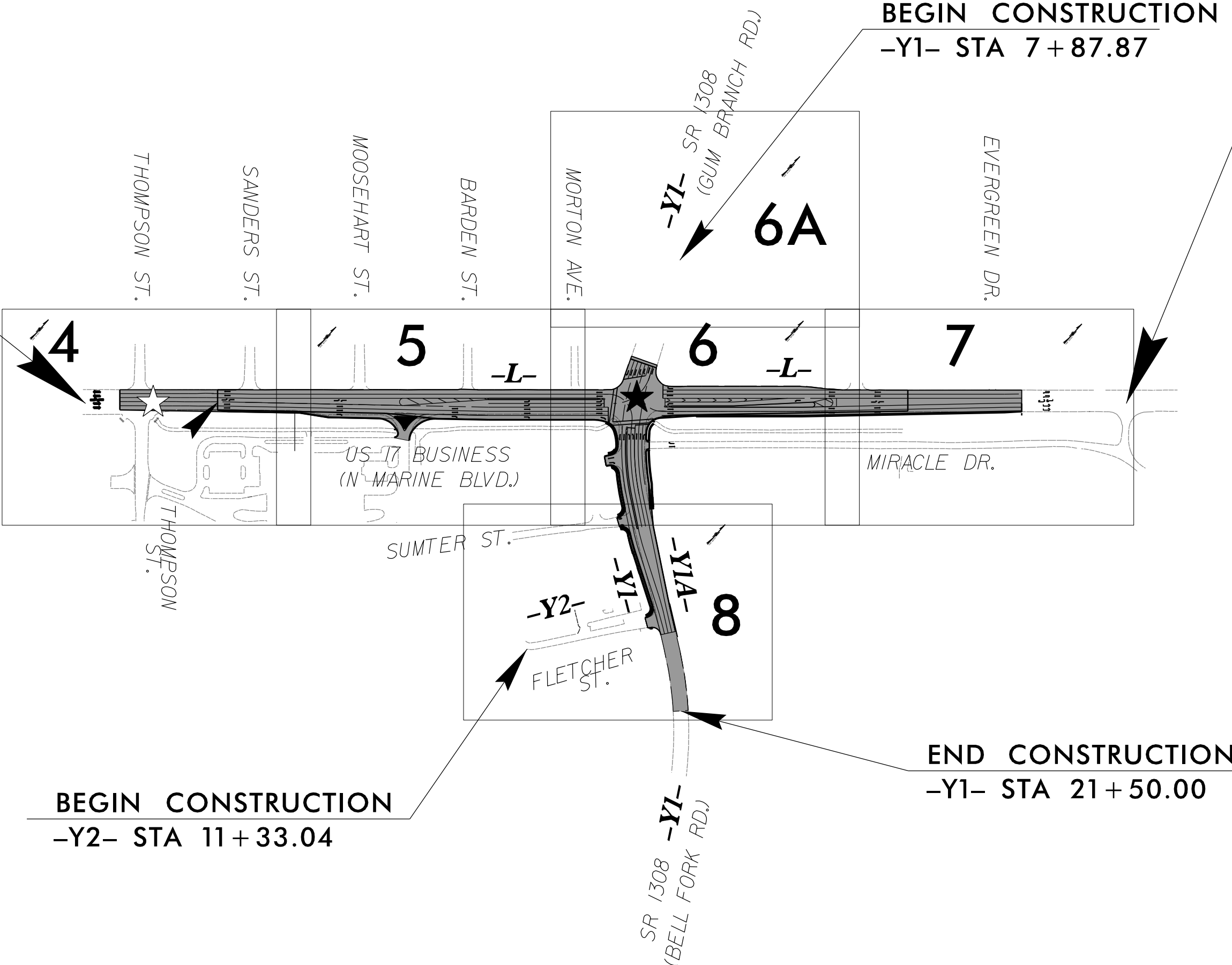
TYPE OF WORK: WIDENING, GRADING, DRAINAGE,  
PAVING, RESURFACING, AND SIGNALS



| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.       | TOTAL SHEETS |
|-----------------|-----------------------------|-----------------|--------------|
| N.C.            | U-5728                      | 1               |              |
| STATE PROJ. NO. | F. A. PROJ. NO.             | DESCRIPTION     |              |
| 54019.1.1       |                             | PE              |              |
| 54019.2.1       |                             | RIGHT OF WAY    |              |
| 54019.2.2       |                             | UTILITIES RELO. |              |
| 54019.3.1       | 5401901                     | CONSTRUCTION    |              |
|                 |                             |                 |              |
|                 |                             |                 |              |
|                 |                             |                 |              |

BEGIN TIP PROJECT U-5728  
-L- STA. 9 + 00.00

TO ONSLOW DRIVE



END TIP PROJECT U-5728  
-L- STA. 39 + 35.21

TO JACKSONVILLE PARKWAY

BEGIN CONSTRUCTION  
-Y2- STA 11 + 33.04

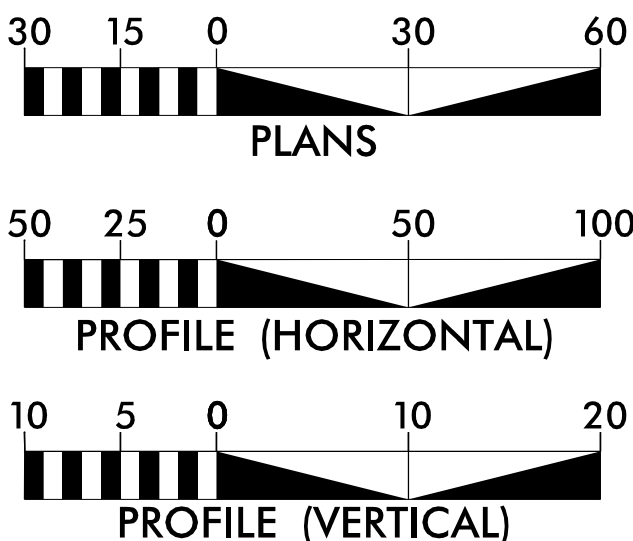
END CONSTRUCTION  
-Y1- STA 21 + 50.00

THIS IS NOT A CONTROL OF ACCESS PROJECT  
THIS PROJECT IS WITHIN THE JACKSONVILLE MUNICIPAL BOUNDARIES.

- ★ EXISTING SIGNAL TO BE UPGRADED
- ☆ EXISTING SIGNAL TO BE RETAINED

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2026 = 22200  
ADT 2040 = 25000  
DHV = 10 %  
D = 60 %  
T = 2 % \*  
V = 50 MPH  
\* TTST 1% + DUAL 1%  
FUNC CLASS =  
PRINC. ARTERIAL  
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5728 = 0.575 MILES  
LENGTH STRUCTURE TIP PROJECT U-5728 = 0.000 MILES  
TOTAL LENGTH OF TIP PROJECT U-5728 = 0.575 MILES



2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
MARCH 3, 2018

LETTING DATE:  
SEPTEMBER 15, 2026

NCDOT CONTACT:

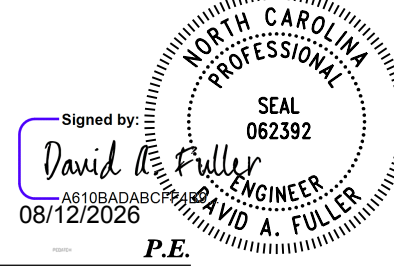
Prepared for the North Carolina Department  
of Transportation in the Office of:  
HOME OFFICE  
119 BROOKSTOWN AVENUE, SUITE PH1  
WINSTON-SALEM, NC 27101  
336.744.1638 www.davenportnc.com  
NCBELS FIRM LICENSE NO. C-2622

ZACHERY P. ANDREWS, PE  
PROJECT ENGINEER

ADAM RAJKUMAR  
PROJECT DESIGN ENGINEER

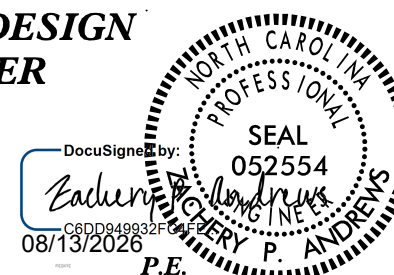
ZACH HOWARD  
DIVISION 3 CONTACT

HYDRAULICS ENGINEER

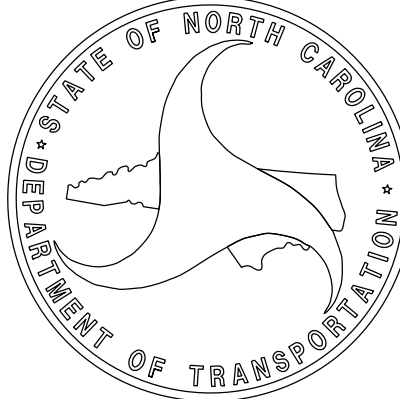


SIGNATURE:

ROADWAY DESIGN  
ENGINEER



SIGNATURE:



04/06/15

INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS

| SHEET                                                                                                                                                                                                                                                                  | DESCRIPTION                                                                    | GENERAL NOTES CONT.                                                                                                                                                                                | 2024 ROADWAY ENGLISH STANDARD DRAWINGS CONT.                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1                                                                                                                                                                                                                                                                      | TITLE SHEET                                                                    | DRIVEWAYS:                                                                                                                                                                                         | STD.NO. TITLE                                                                         |
| 1A                                                                                                                                                                                                                                                                     | INDEX OF SHEETS /GENERAL NOTES /STANDARDS                                      | 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. | DIVISION 5 – SUBGRADE, BASES AND SHOULDERS                                            |
| 1B                                                                                                                                                                                                                                                                     | CONVENTIONAL SYMBOLS                                                           |                                                                                                                                                                                                    | 560.01 Method of Shoulder Construction – High Side of Superelevated Curve – Method I  |
| 2A–1 THRU 2A–4                                                                                                                                                                                                                                                         | PAVEMENT SCHEDULE AND TYPICAL SECTIONS                                         |                                                                                                                                                                                                    |                                                                                       |
| 2C–1 THRU 2C–7                                                                                                                                                                                                                                                         | STANDARD DETAILS                                                               |                                                                                                                                                                                                    |                                                                                       |
| 3B–1                                                                                                                                                                                                                                                                   | ROADWAY SUMMARIES                                                              | STREET TURNOUT:                                                                                                                                                                                    | DIVISION 6 – ASPHALT BASES AND PAVEMENTS                                              |
| 3D–1 THRU 3D–4                                                                                                                                                                                                                                                         | DRAINAGE SUMMARIES                                                             | STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.                                                                                             | 654.01 Pavement Repairs                                                               |
| 3G–1                                                                                                                                                                                                                                                                   | GEOTECHNICAL SUMMARIES                                                         | TEMPORARY SHORING:                                                                                                                                                                                 | DIVISION 8 – INCIDENTALS                                                              |
| 3P–1                                                                                                                                                                                                                                                                   | PARCEL INDEX SHEET                                                             | SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT SHOWN ON THE PLANS                                                                                                                             | 815.02 Subsurface Drain                                                               |
| 4 THRU 11                                                                                                                                                                                                                                                              | PLAN AND PROFILE SHEETS                                                        | WILL BE PAID FOR AT THE CONTRACT PRICE FOR “TEMPORARY SHORING”                                                                                                                                     | 840.00 Concrete Base Pad for Drainage Structures                                      |
| RW–1 THRU RW–8                                                                                                                                                                                                                                                         | SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENT AND PROPERTY TIES | UTILITIES:                                                                                                                                                                                         | 840.01 Brick Catch Basin – 12” thru 54” Pipe                                          |
|                                                                                                                                                                                                                                                                        |                                                                                | UTILITY OWNERS ON THIS PROJECT ARE                                                                                                                                                                 | 840.02 Concrete Catch Basin – 12” thru 54” Pipe                                       |
| TMP–1 THRU TMP–27                                                                                                                                                                                                                                                      | TRAFFIC MANAGEMENT PLANS                                                       | DUKE ENERGY – (POWER DISTRIBUTION)                                                                                                                                                                 | 840.03 Frame, Grates and Hood – for Use on Standard Catch Basin                       |
| PMP–1 THRU PMP–4                                                                                                                                                                                                                                                       | PAVEMENT MARKING PLANS                                                         | JONES ONSLOW EMC – (POWER DISTRIBUTION)                                                                                                                                                            | 840.14 Concrete Drop Inlet – 12” thru 30” Pipe                                        |
| EC–1 THRU EC–13                                                                                                                                                                                                                                                        | EROSION CONTROL PLANS                                                          | PIEDMONT NATURAL GAS – (NATURAL GAS DISTRIBUTION)                                                                                                                                                  | 840.15 Brick Drop Inlet – 12” thru 30” Pipe                                           |
| SIGN–1 THRU SIGN–5                                                                                                                                                                                                                                                     | SIGNING PLANS                                                                  | SEGRA – (COMMUNICATIONS)                                                                                                                                                                           | 840.16 Drop Inlet Frame and Grates – for use with Std. Dwg 840.14 and 840.15          |
| SIG–1.0 THRU SIG–4.4                                                                                                                                                                                                                                                   | SIGNAL PLANS                                                                   | MCNC – (COMMUNICATIONS)                                                                                                                                                                            | 840.18 Concrete Grated Drop Inlet Type ‘B’ – 12” thru 36” Pipe                        |
| SCP–1 THRU SCP–4                                                                                                                                                                                                                                                       | SIGNAL COMMUNICATION PLANS                                                     | SPECTRUM – (COMMUNICATIONS)                                                                                                                                                                        | 840.19 Concrete Grated Drop Inlet Type ‘D’ – 12” thru 36” Pipe                        |
| UC–1 THRU UC–11                                                                                                                                                                                                                                                        | UTILITIES CONSTRUCTION PLANS                                                   | METRONET – (COMMUNICATIONS)                                                                                                                                                                        | 840.25 Anchorage for Frames – Brick or Concrete or Precast                            |
| UO–1 THRU UO–6                                                                                                                                                                                                                                                         | UTILITIES BY OTHERS PLANS                                                      | CITY OF JACKSONVILLE – (COMMUNICATIONS)                                                                                                                                                            | 840.27 Brick Grated Drop Inlet Type ‘B’ – 12” thru 36” Pipe                           |
| X–1                                                                                                                                                                                                                                                                    | CROSS SECTIONS SUMMARY SHEET                                                   | BRIGHTSPEED – (COMMUNICATIONS)                                                                                                                                                                     | 840.28 Brick Grated Drop Inlet Type ‘D’ – 12” thru 36” Pipe                           |
| X–2 THRU X–26                                                                                                                                                                                                                                                          | CROSS SECTIONS                                                                 | ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.                                                                                                 | 840.34 Traffic Bearing Junction Box – for Use with Pipes 42” and Under                |
|                                                                                                                                                                                                                                                                        |                                                                                | RIGHT–OF–WAY MARKERS:                                                                                                                                                                              | 840.35 Traffic Bearing Grated Drop Inlet – for Cast Iron Double Frame and Grates      |
| GENERAL NOTES:                                                                                                                                                                                                                                                         | 2024 SPECIFICATIONS EFFECTIVE: 01–16–2024 REVISED:                             | ALL RIGHT–OF–WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS. THE CONTRACTOR WILL BE RESPONSIBLE FOR RESETTNG ANY POINTS DISTURBED BY CONSTRUCTION.                                          | 840.36 Traffic Bearing Grated Drop Inlet – for Steel (840.37) Double Frame and Grates |
| GRADING AND SURFACING OR RESURFACING AND WIDENING:                                                                                                                                                                                                                     |                                                                                | CURB RAMPS                                                                                                                                                                                         | 840.37 Steel Grate and Frame                                                          |
| WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN. |                                                                                | CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.                                                                                   | 840.45 Precast Drainage Structure                                                     |
| CLEARING:                                                                                                                                                                                                                                                              |                                                                                |                                                                                                                                                                                                    | 840.46 Traffic Bearing Precast Drainage Structure                                     |
| CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY MODIFIED METHOD III.                                                                                                                                                                          |                                                                                |                                                                                                                                                                                                    | 840.54 Manhole Frame and Cover                                                        |
| SUPERELEVATION:                                                                                                                                                                                                                                                        |                                                                                |                                                                                                                                                                                                    | 840.66 Drainage Structure Steps                                                       |
| ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.                            |                                                                                |                                                                                                                                                                                                    | 840.72 Pipe Collar                                                                    |
| SHOULDER CONSTRUCTION:                                                                                                                                                                                                                                                 |                                                                                |                                                                                                                                                                                                    | 846.01 Concrete Curb, Gutter and Curb & Gutter                                        |
| ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01                                                                                                                                |                                                                                |                                                                                                                                                                                                    | 848.01 Concrete Sidewalk                                                              |
| SIDE ROADS:                                                                                                                                                                                                                                                            |                                                                                |                                                                                                                                                                                                    | 848.02 Driveway Turnout – Radius Type                                                 |
| THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.                           |                                                                                |                                                                                                                                                                                                    | 848.04 Street Turnout                                                                 |
| SUBSURFACE DRAINS:                                                                                                                                                                                                                                                     |                                                                                |                                                                                                                                                                                                    | 848.06 Curb Ramp                                                                      |
| SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER                                                                                                                                                        |                                                                                |                                                                                                                                                                                                    | 852.01 Concrete Islands                                                               |
|                                                                                                                                                                                                                                                                        |                                                                                |                                                                                                                                                                                                    | 852.06 Method for Placement of Drop Inlets in Concrete Islands                        |
|                                                                                                                                                                                                                                                                        |                                                                                |                                                                                                                                                                                                    | 876.01 Rip Rap in Channels and Ditches                                                |
|                                                                                                                                                                                                                                                                        |                                                                                |                                                                                                                                                                                                    | 876.02 Guide for Rip Rap at Pipe Outlets                                              |

# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

## CONVENTIONAL PLAN SHEET SYMBOLS

| PROJECT REFERENCE NO. | SHEET NO. |
|-----------------------|-----------|
| U-5728                | 1B        |

Note: Not to Scale

### BOUNDARIES AND PROPERTY:

|                                       |  |
|---------------------------------------|--|
| State Line                            |  |
| County Line                           |  |
| Township Line                         |  |
| City Line                             |  |
| Reservation Line                      |  |
| Property Line                         |  |
| Existing Iron Pin (EIP)               |  |
| Computed Property Corner              |  |
| Existing Concrete Monument (ECM)      |  |
| 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   |  |
| Existing Endangered Plant Boundary    |  |
| Existing Historic Property Boundary   |  |
| Known Contamination Area: Soil        |  |
| Potential Contamination Area: Soil    |  |
| Known Contamination Area: Water       |  |
| Potential Contamination Area: Water   |  |
| Contaminated Site: Known or Potential |  |
| <b>BUILDINGS AND OTHER CULTURE:</b>   |  |
| Gas Pump Vent or U/G Tank Cap         |  |
| Sign                                  |  |
| Well                                  |  |
| Small Mine                            |  |
| Foundation                            |  |
| Area Outline                          |  |
| Cemetery                              |  |
| Building                              |  |
| School                                |  |
| Church                                |  |
| Dam                                   |  |
| <b>HYDROLOGY:</b>                     |  |
| Stream or Body of Water               |  |
| Hydro, Pool or Reservoir              |  |
| Jurisdictional Stream                 |  |
| Buffer Zone 1                         |  |
| Buffer Zone 2                         |  |
| Flow Arrow                            |  |
| Disappearing Stream                   |  |
| Spring                                |  |
| Wetland                               |  |
| Proposed Lateral, Tail, Head Ditch    |  |
| False Sump                            |  |

### RAILROADS:

|                    |  |
|--------------------|--|
| Standard Gauge     |  |
| RR Signal Milepost |  |
| Switch             |  |
| RR Abandoned       |  |
| RR Dismantled      |  |

### RIGHT OF WAY & PROJECT CONTROL:

|                                                      |  |
|------------------------------------------------------|--|
| Primary Horiz Control Point                          |  |
| Primary Horiz and Vert Control Point                 |  |
| Secondary Horiz and Vert Control Point               |  |
| Vertical Benchmark                                   |  |
| Existing Right of Way Monument                       |  |
| Proposed Right of Way Monument (Rebar and Cap)       |  |
| Proposed Right of Way Monument (Concrete)            |  |
| Existing Permanent Easement Monument                 |  |
| Proposed Permanent Easement Monument (Rebar and Cap) |  |
| Existing C/A Monument                                |  |
| Proposed C/A Monument (Rebar and Cap)                |  |
| Proposed C/A Monument (Concrete)                     |  |
| Existing Right of Way Line                           |  |
| Proposed Right of Way Line                           |  |
| Existing Control of Access Line                      |  |
| Proposed Control of Access Line                      |  |
| Proposed ROW and CA Line                             |  |
| Existing Easement Line                               |  |
| Proposed Temporary Construction Easement             |  |
| Proposed Temporary Drainage Easement                 |  |
| Proposed Permanent Drainage Easement                 |  |
| Proposed Permanent Drainage/Utility Easement         |  |
| Proposed Permanent Utility Easement                  |  |
| Proposed Temporary Utility Easement                  |  |
| Proposed Aerial Utility Easement                     |  |

### ROADS AND RELATED FEATURES:

|                            |  |
|----------------------------|--|
| Existing Edge of Pavement  |  |
| Existing Curb              |  |
| Proposed Slope Stakes Cut  |  |
| Proposed Slope Stakes Fill |  |
| Proposed Curb Ramp         |  |
| Existing Metal Guardrail   |  |
| Proposed Guardrail         |  |
| Existing Cable Guiderail   |  |
| Proposed Cable Guiderail   |  |
| Equality Symbol            |  |
| Pavement Removal           |  |
| Superelevation Arrow       |  |
| <b>VEGETATION:</b>         |  |
| Single Tree                |  |
| Single Shrub               |  |
| Hedge                      |  |

|            |  |
|------------|--|
| Woods Line |  |
| Orchard    |  |
| Vineyard   |  |

### EXISTING STRUCTURES:

|                                          |  |
|------------------------------------------|--|
| Bridge, Tunnel or Box Culvert            |  |
| Bridge Wing Wall, Head Wall and End Wall |  |
| Head and End Wall                        |  |
| Pipe Culvert                             |  |
| Footbridge                               |  |
| Drainage Box: Catch Basin, DI or JB      |  |
| Paved Ditch Gutter                       |  |
| Storm Sewer Manhole                      |  |
| Storm Sewer                              |  |

### UTILITIES:

\* SUE - Subsurface Utility Engineering  
LOS - Level of Service - A,B,C or D (Accuracy)

|                                         |  |
|-----------------------------------------|--|
| Existing Power Pole                     |  |
| Proposed Power Pole                     |  |
| Existing Joint Use Pole                 |  |
| Proposed Joint Use Pole                 |  |
| Power Manhole                           |  |
| Power Line Tower                        |  |
| Power Transformer                       |  |
| U/G Power Cable Hand Hole               |  |
| H-Frame Pole                            |  |
| U/G Power Line Test Hole (SUE - LOS A)* |  |
| U/G Power Line (SUE - LOS B)*           |  |
| U/G Power Line (SUE - LOS C)*           |  |
| U/G Power Line (SUE - LOS D)*           |  |

### TELEPHONE:

|                                        |  |
|----------------------------------------|--|
| Existing Telephone Pole                |  |
| Proposed Telephone Pole                |  |
| Telephone Manhole                      |  |
| Telephone Pedestal                     |  |
| Telephone Cell Tower                   |  |
| U/G Telephone Cable Hand Hole          |  |
| U/G Telephone Test Hole (SUE - LOS A)* |  |
| U/G Telephone Cable (SUE - LOS B)*     |  |
| U/G Telephone Cable (SUE - LOS C)*     |  |
| U/G Telephone Cable (SUE - LOS D)*     |  |
| U/G Telephone Conduit (SUE - LOS B)*   |  |
| U/G Telephone Conduit (SUE - LOS C)*   |  |
| U/G Telephone Conduit (SUE - LOS D)*   |  |
| U/G Fiber Optics Cable (SUE - LOS B)*  |  |
| U/G Fiber Optics Cable (SUE - LOS C)*  |  |
| U/G Fiber Optics Cable (SUE - LOS D)*  |  |

### WATER:

|                                         |  |
|-----------------------------------------|--|
| Water Manhole                           |  |
| Water Meter                             |  |
| Water Valve                             |  |
| Water Hydrant                           |  |
| U/G Water Line Test Hole (SUE - LOS A)* |  |
| U/G Water Line (SUE - LOS B)*           |  |
| U/G Water Line (SUE - LOS C)*           |  |
| U/G Water Line (SUE - LOS D)*           |  |
| Above Ground Water Line                 |  |

### TV:

|                                      |  |
|--------------------------------------|--|
| TV Pedestal                          |  |
| TV Tower                             |  |
| U/G TV Cable Hand Hole               |  |
| U/G TV Test Hole (SUE - LOS A)*      |  |
| U/G TV Cable (SUE - LOS B)*          |  |
| U/G TV Cable (SUE - LOS C)*          |  |
| U/G TV Cable (SUE - LOS D)*          |  |
| U/G Fiber Optic Cable (SUE - LOS B)* |  |
| U/G Fiber Optic Cable (SUE - LOS C)* |  |
| U/G Fiber Optic Cable (SUE - LOS D)* |  |

### GAS:

|                                       |  |
|---------------------------------------|--|
| Gas Valve                             |  |
| Gas Meter                             |  |
| U/G Gas Line Test Hole (SUE - LOS A)* |  |
| U/G Gas Line (SUE - LOS B)*           |  |
| U/G Gas Line (SUE - LOS C)*           |  |
| U/G Gas Line (SUE - LOS D)*           |  |
| Above Ground Gas Line                 |  |

### SANITARY SEWER:

|                                             |  |
|---------------------------------------------|--|
| Sanitary Sewer Manhole                      |  |
| Sanitary Sewer Cleanout                     |  |
| U/G Sanitary Sewer Line                     |  |
| Above Ground Sanitary Sewer                 |  |
| SS Force Main Line Test Hole (SUE - LOS A)* |  |
| SS Force Main Line (SUE - LOS B)*           |  |
| SS Force Main Line (SUE - LOS C)*           |  |
| SS Force Main Line (SUE - LOS D)*           |  |

### MISCELLANEOUS:

|                                         |  |
|-----------------------------------------|--|
| Utility Pole                            |  |
| Utility Pole with Base                  |  |
| Utility Located Object                  |  |
| Utility Traffic Signal Box              |  |
| Utility Unknown U/G Line (SUE - LOS B)* |  |
| U/G Tank; Water, Gas, Oil               |  |
| Underground Storage Tank, Approx. Loc.  |  |
| A/G Tank; Water, Gas, Oil               |  |
| Geoenvironmental Boring                 |  |
| Abandoned According to Utility Records  |  |
| End of Information                      |  |

USE INSET 1A IN COMBINATION WITH TYPICAL SECTION NO.1 AS FOLLOWS

-L- STA. 14+50.00 TO 16+00.00

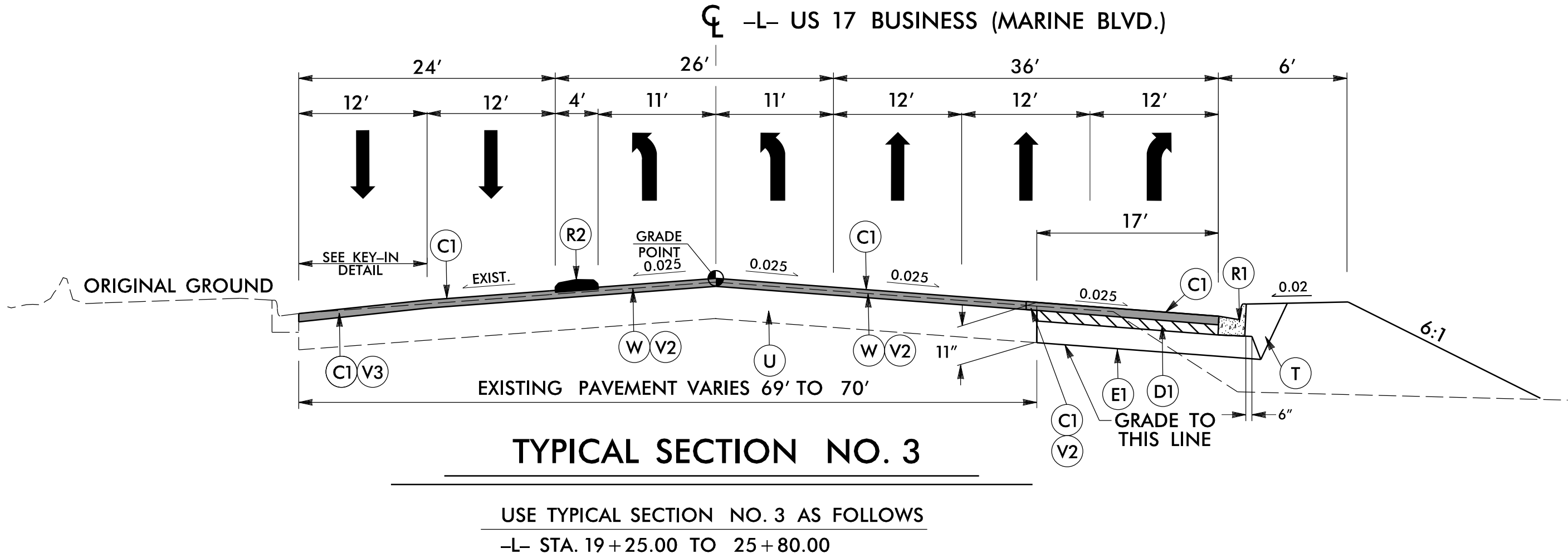
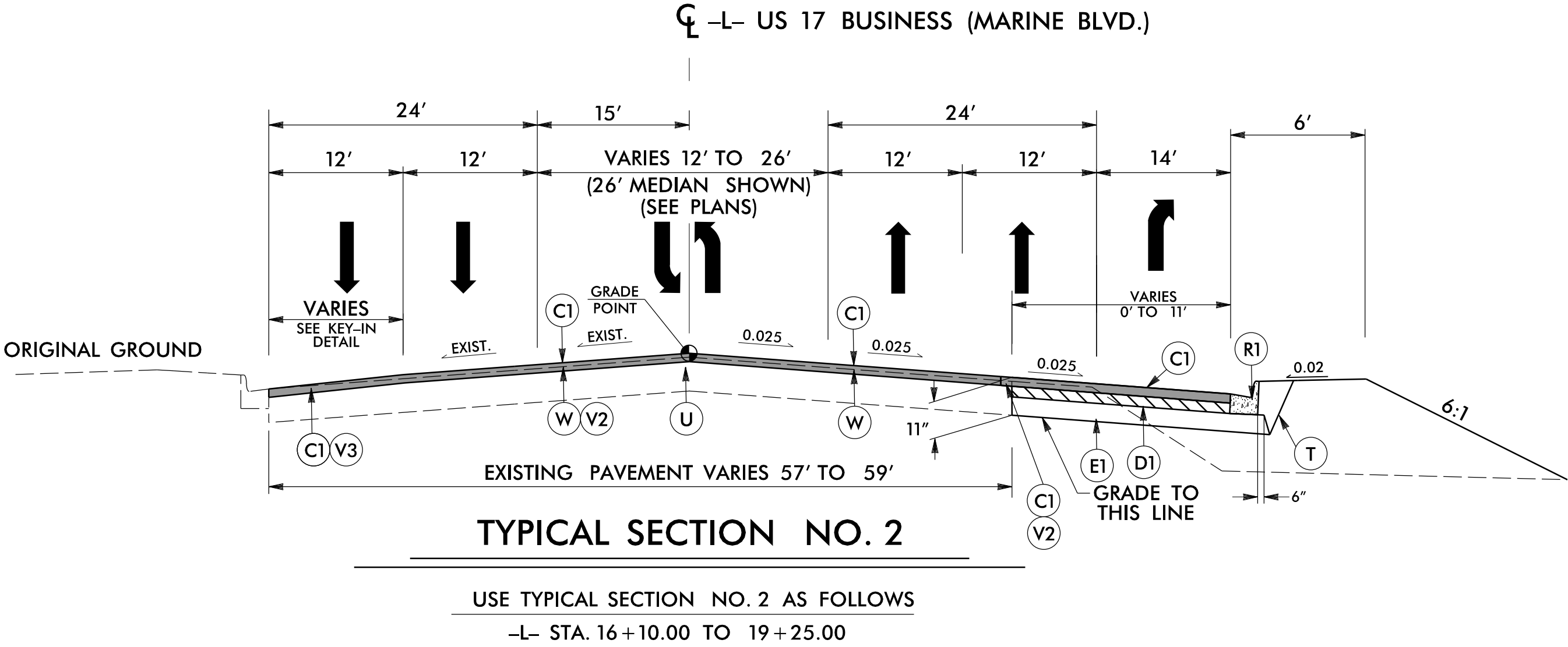
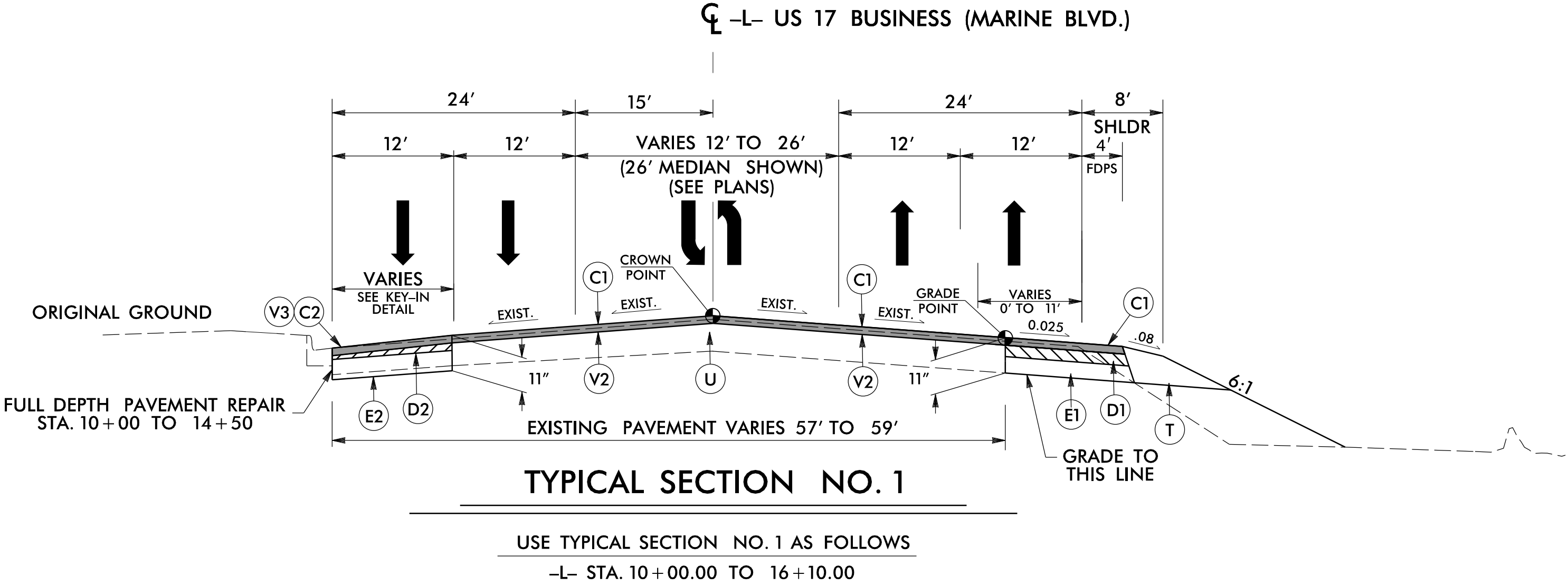
6/2/2026

| PAVEMENT SCHEDULE |                                   |
|-------------------|-----------------------------------|
| C1                | 3.0" S9.5C                        |
| C2                | VAR. S9.5C                        |
| C3                | 1.5" S9.5B                        |
| D1                | 4.0" I19.0C                       |
| D2                | VAR. I19.0C                       |
| E1                | 4.0" B25.0C                       |
| E2                | 5.5" B25.0C                       |
| E3                | VAR. B25.0C                       |
| J                 | 6" ABC                            |
| K                 | 12" CLASS IV SUBGRADE             |
| N                 | GEOTEXTILE                        |
| P                 | PRIME COAT                        |
| R1                | 2'-6" C & G                       |
| R2                | 5" MONO. CONC. ISLAND (KEYED IN)* |
| S                 | SIDEWALK                          |
| T                 | EARTH MATERIAL                    |
| V1                | INCIDENTAL MILLING                |
| V2                | 1.5" MILLING                      |
| V3                | 1.5" TO 3" MILLING                |
| U                 | EXISTING PAVEMENT                 |
| W                 | WEDGING                           |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

TYPICAL SECTIONS ARE NOT TO SCALE (NTS)

\* SEE PLANS FOR LOCATIONS



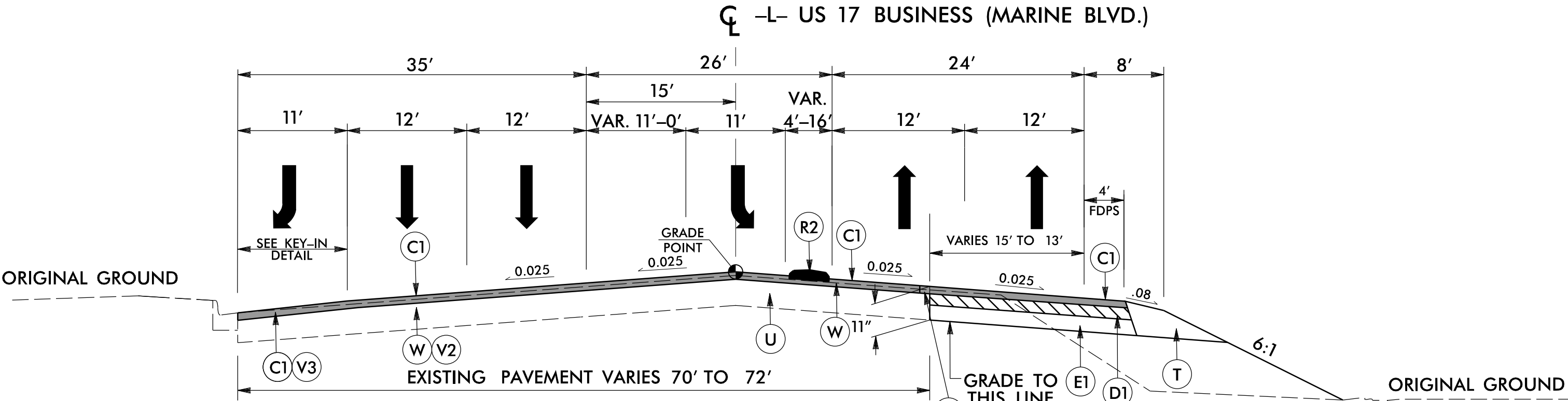
6/2/2026

|                                                                                                                                                                                                                                                          |  |                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--|
| PROJECT REFERENCE NO.<br><i>U-5728</i>                                                                                                                                                                                                                   |  | SHEET NO.<br><i>2A-2</i> |  |
| ROADWAY DESIGN ENGINEER                                                                                                                                                                                                                                  |  | PAVEMENT DESIGN ENGINEER |  |
|                                                                                                                                                                                                                                                          |  |                          |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                                                                                                                                                         |  |                          |  |
|  <b>DAVENPORT</b><br>HOME OFFICE<br>119 BROOKSTOWN AVENUE, SUITE PH1<br>WINSTON-SALEM, NC 27101<br>336.744.1836 www.davenportnc.com<br>NCBELS FIRM LICENSE NO. C-2522 |  |                          |  |

6/2/2026

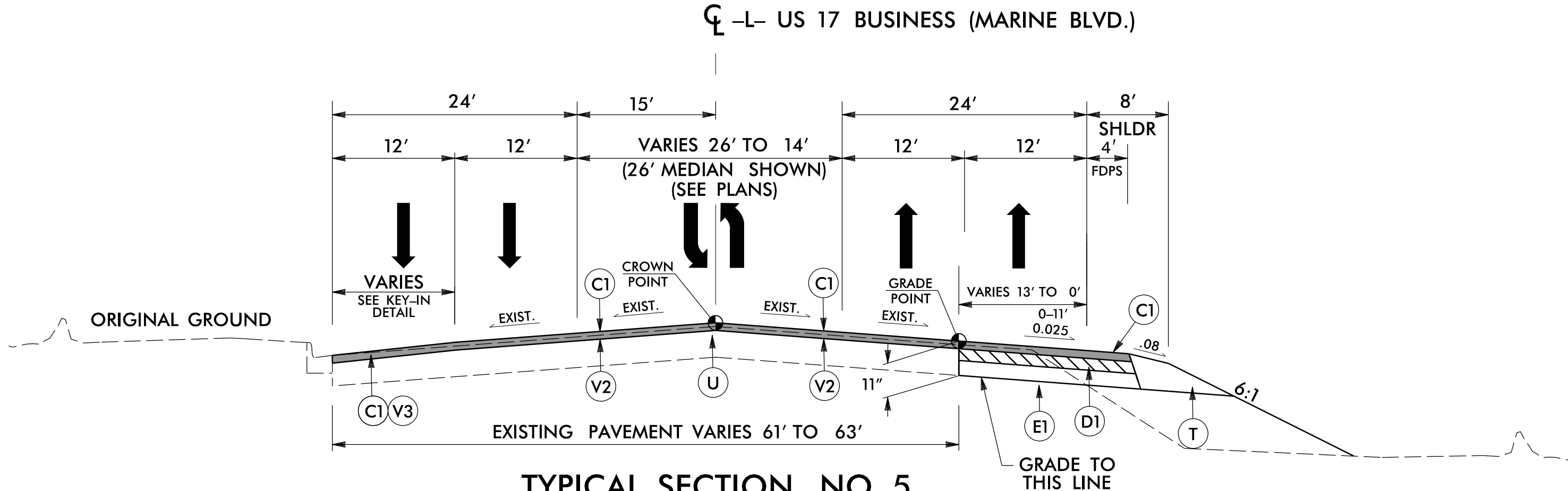
| PAVEMENT SCHEDULE |                                   |
|-------------------|-----------------------------------|
| C1                | 3.0" S9.5C                        |
| C2                | VAR. S9.5C                        |
| C3                | 1.5" S9.5B                        |
| D1                | 4.0" I19.0C                       |
| D2                | VAR. I19.0C                       |
| E1                | 4.0" B25.0C                       |
| E2                | 5.5" B25.0C                       |
| E3                | VAR. B25.0C                       |
| J                 | 6" ABC                            |
| K                 | 12" CLASS IV SUBGRADE             |
| N                 | GEOTEXTILE                        |
| P                 | PRIME COAT                        |
| R1                | 2'-6" C & G                       |
| R2                | 5" MONO. CONC. ISLAND (KEYED IN)* |
| S                 | SIDEWALK                          |
| T                 | EARTH MATERIAL                    |
| V1                | INCIDENTAL MILLING                |
| V2                | 1.5" MILLING                      |
| V3                | 1.5" TO 3" MILLING                |
| U                 | EXISTING PAVEMENT                 |
| W                 | WEDGING                           |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE  
TYPICAL SECTIONS ARE NOT TO SCALE (NTS)  
\* SEE PLANS FOR LOCATIONS



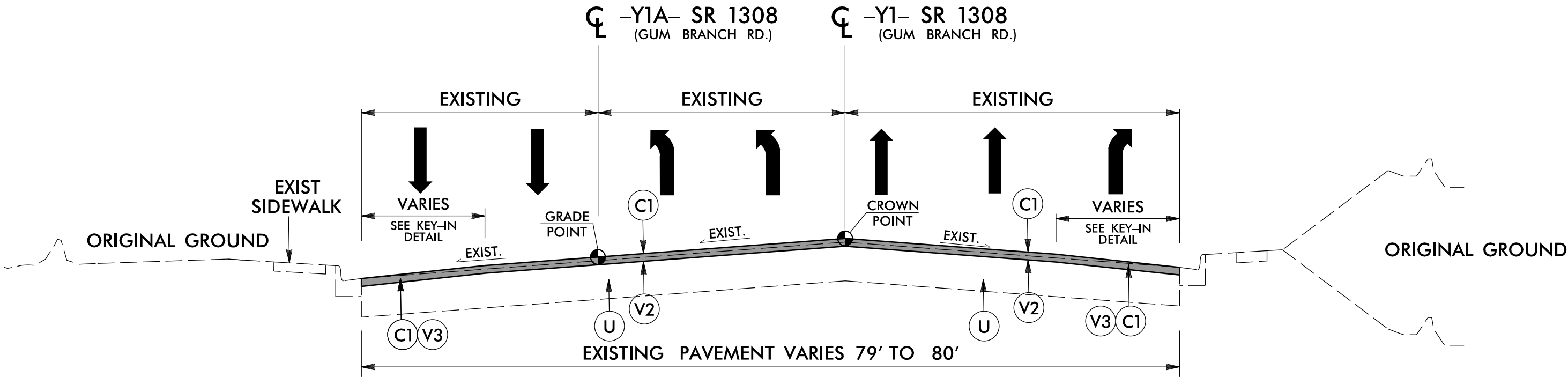
TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4 AS FOLLOWS  
-L- STA. 25+80.00 TO 30+30.00



TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5 AS FOLLOWS  
-L- STA. 30+30.00 TO 36+30.00



TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6 AS FOLLOWS  
-Y1- STA. 11+00.00 TO 12+80.10

PROJECT REFERENCE NO.  
**U-5728**

SHEET NO.  
**2A-3**

ROADWAY DESIGN ENGINEER  
  
**Barbara P. Andrews**  
07/21/2026

PAVEMENT DESIGN ENGINEER  
  
**Shirley M. Andrews**  
07/21/2026

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

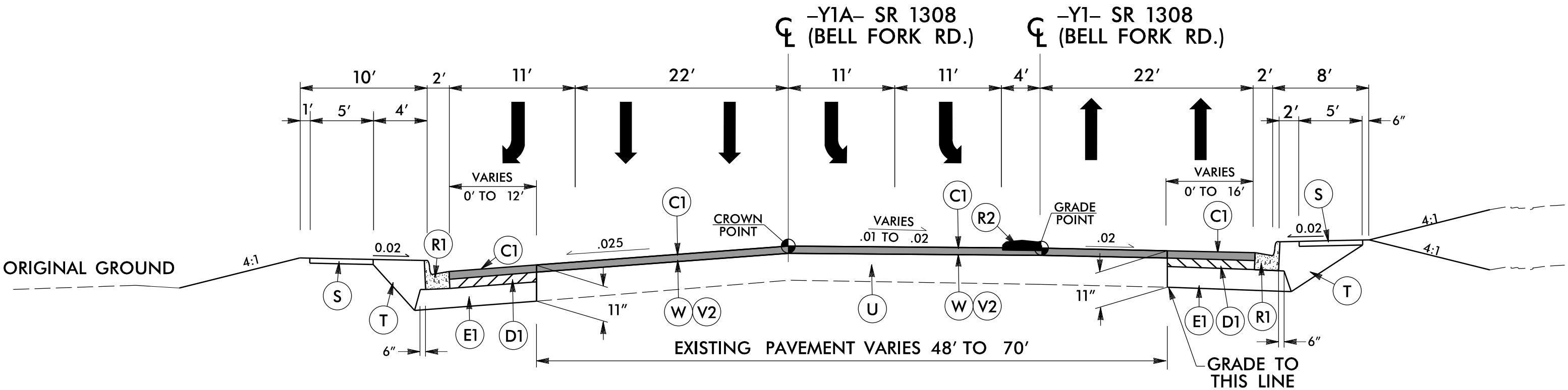
**DAVENPORT**  
HOME OFFICE  
119 BROOKSTOWN AVENUE, SUITE PH1  
WINSTON-SALEM, NC 27101  
336.744.1836 www.davenportnc.com  
NCBELS FIRM LICENSE NO. C-2522

| PAVEMENT SCHEDULE |                                   |
|-------------------|-----------------------------------|
| C1                | 3.0" S9.5C                        |
| C2                | VAR. S9.5C                        |
| C3                | 1.5" S9.5B                        |
| D1                | 4.0" I19.0C                       |
| D2                | VAR. I19.0C                       |
| E1                | 4.0" B25.0C                       |
| E2                | 5.5" B25.0C                       |
| E3                | VAR. B25.0C                       |
| J                 | 6" ABC                            |
| K                 | 12" CLASS IV SUBGRADE             |
| N                 | GEOTEXTILE                        |
| P                 | PRIME COAT                        |
| R1                | 2'-6" C & G                       |
| R2                | 5" MONO. CONC. ISLAND (KEYED IN)* |
| S                 | SIDEWALK                          |
| T                 | EARTH MATERIAL                    |
| V1                | INCIDENTAL MILLING                |
| V2                | 1.5" MILLING                      |
| V3                | 1.5" TO 3" MILLING                |
| U                 | EXISTING PAVEMENT                 |
| W                 | WEDGING                           |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

TYPICAL SECTIONS ARE NOT TO SCALE (NTS)

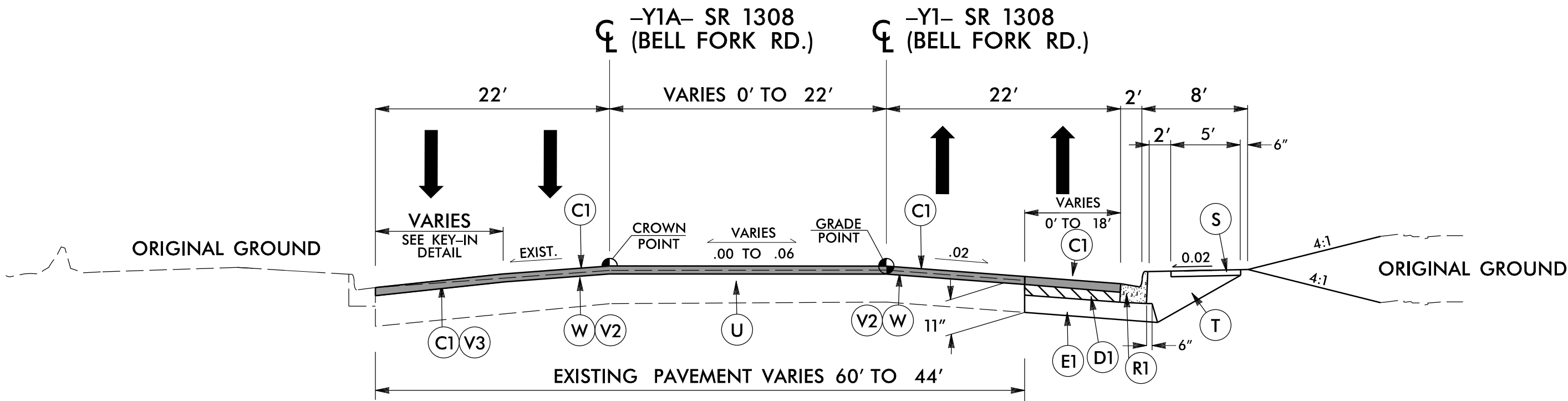
\* SEE PLANS FOR LOCATIONS



TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7 AS FOLLOWS

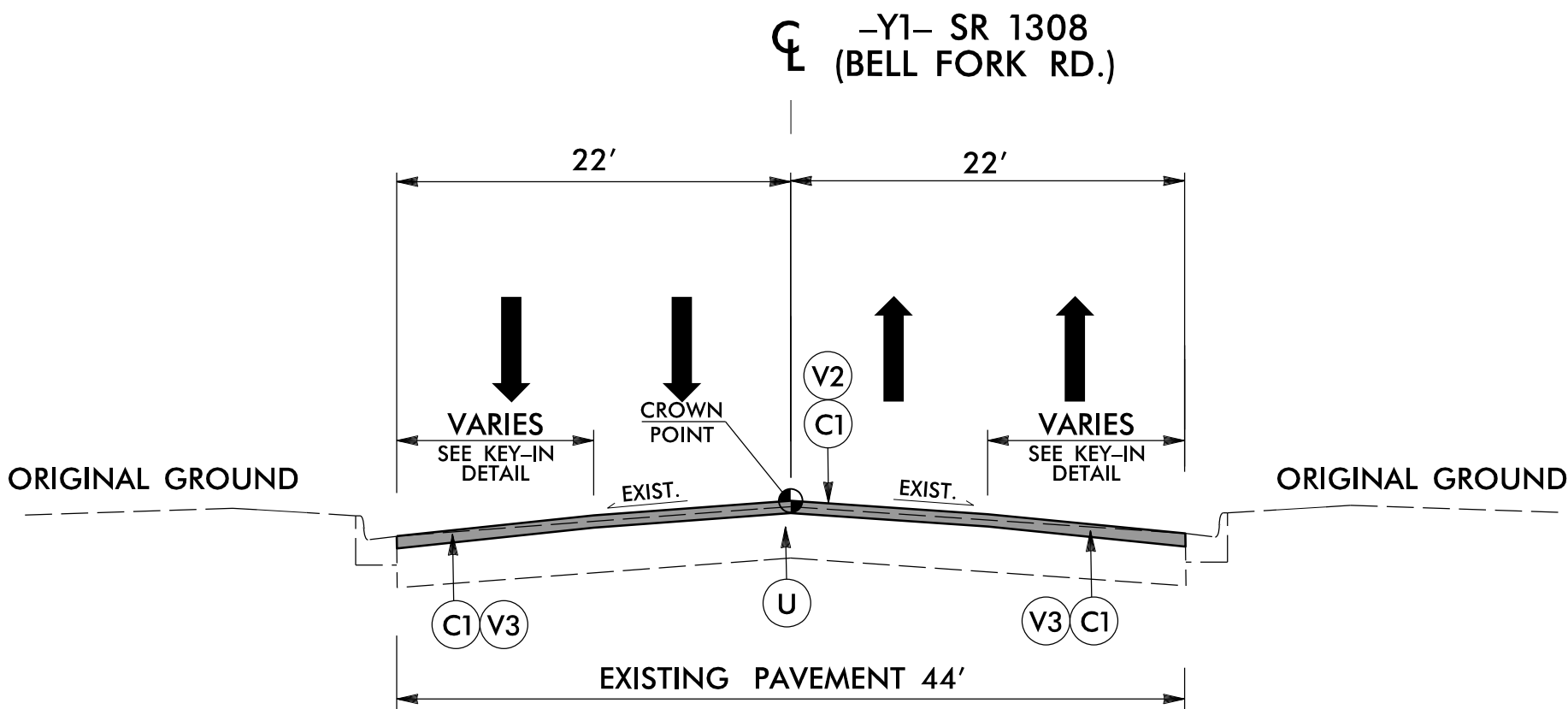
-Y1- STA. 12+80.10 TO 15+65.00



TYPICAL SECTION NO. 8

USE TYPICAL SECTION NO. 8 AS FOLLOWS

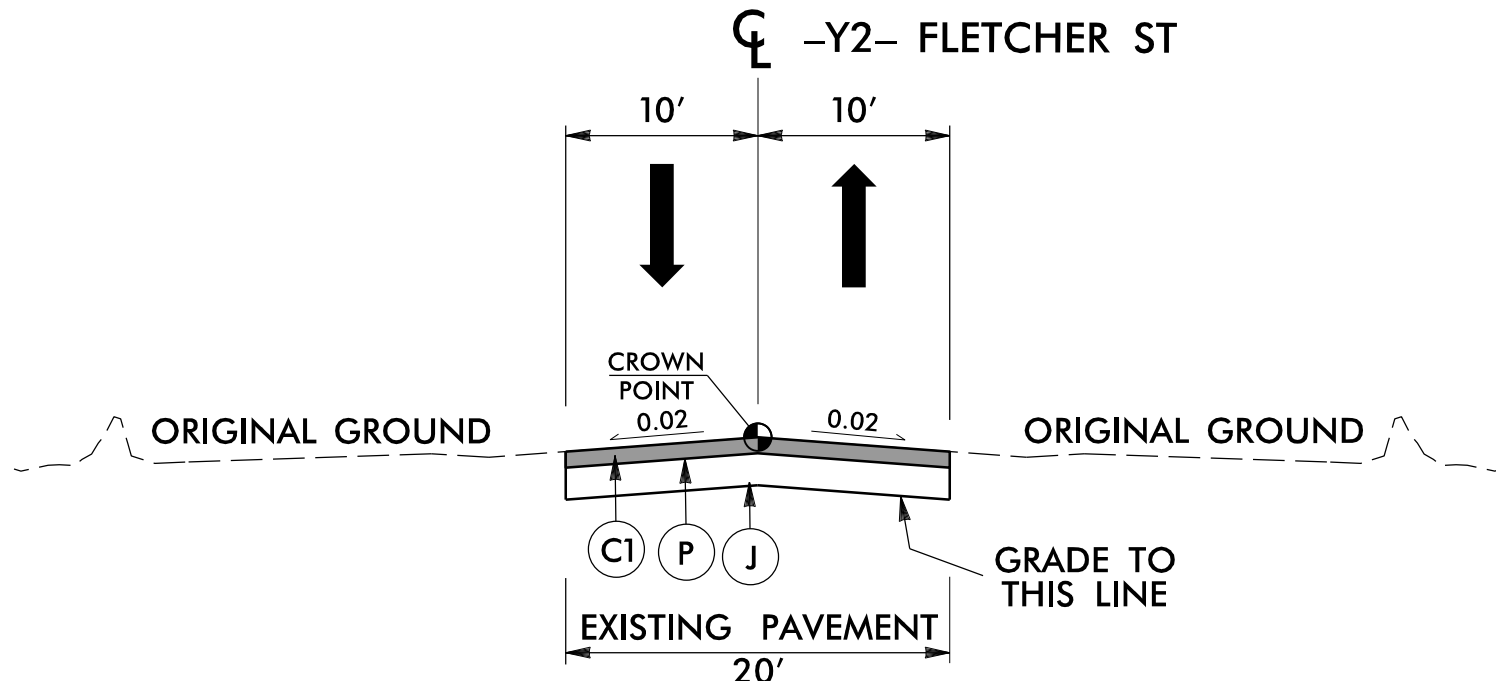
-Y1- STA. 15+65.00 TO 19+20.51



TYPICAL SECTION NO. 9

USE TYPICAL SECTION NO. 9 AS FOLLOWS

-Y1- STA. 19+20.51 TO 21+50.00



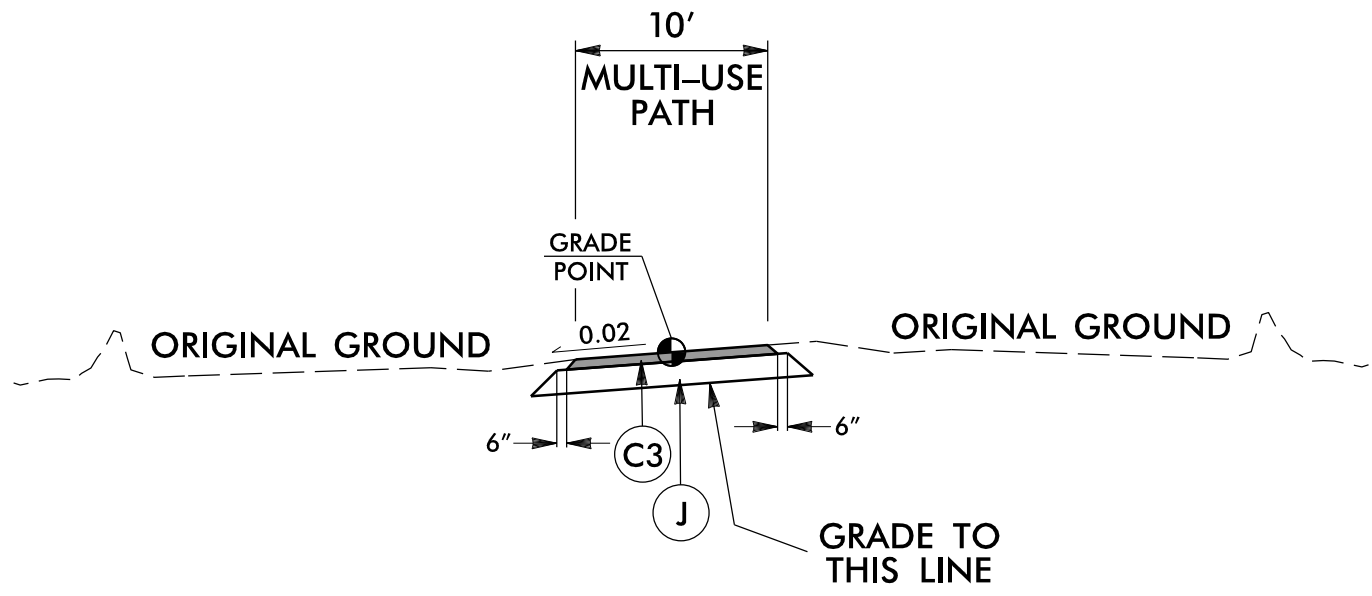
TYPICAL SECTION NO. 10

USE TYPICAL SECTION NO. 10 AS FOLLOWS

-Y2- STA. 11+33.04 TO 15+46.15

USE FOR PARKING LOT PAVEMENT REPAIR

-Y1- STA. 19+00 +/- TO 21+00 +/- RT



TYPICAL SECTION NO. 11

USE TYPICAL SECTION NO. 11 AS FOLLOWS

USE FOR MULTI USE PATH PAVEMENT REPAIR

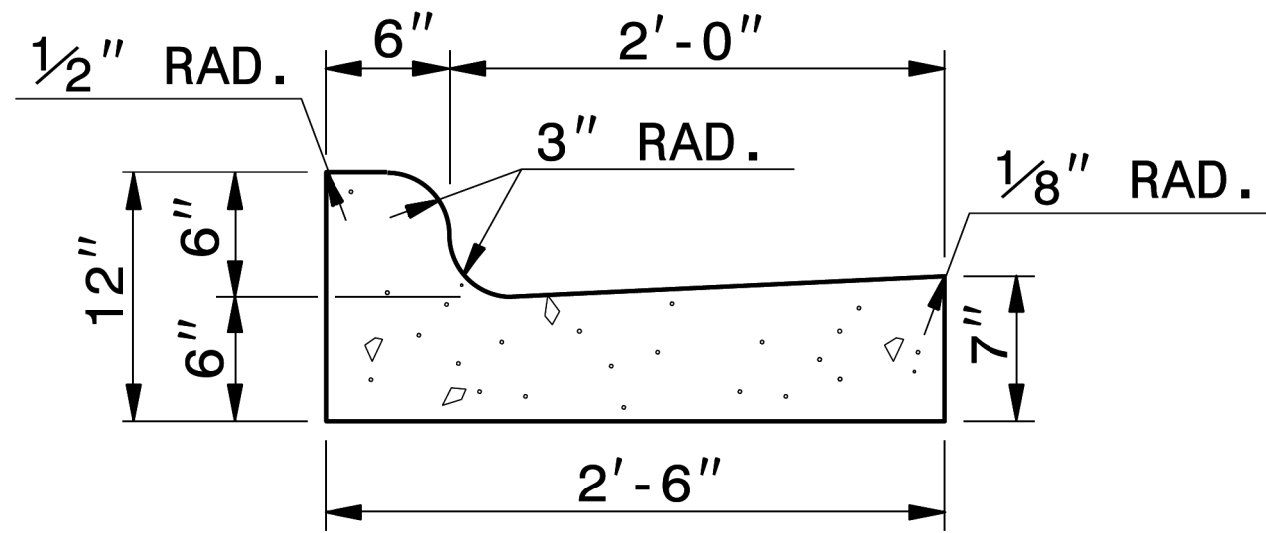
-L- STA. 20+50 +/- TO 21+50 +/- RT

-L- STA. 23+00 +/- TO 23+60 +/- RT

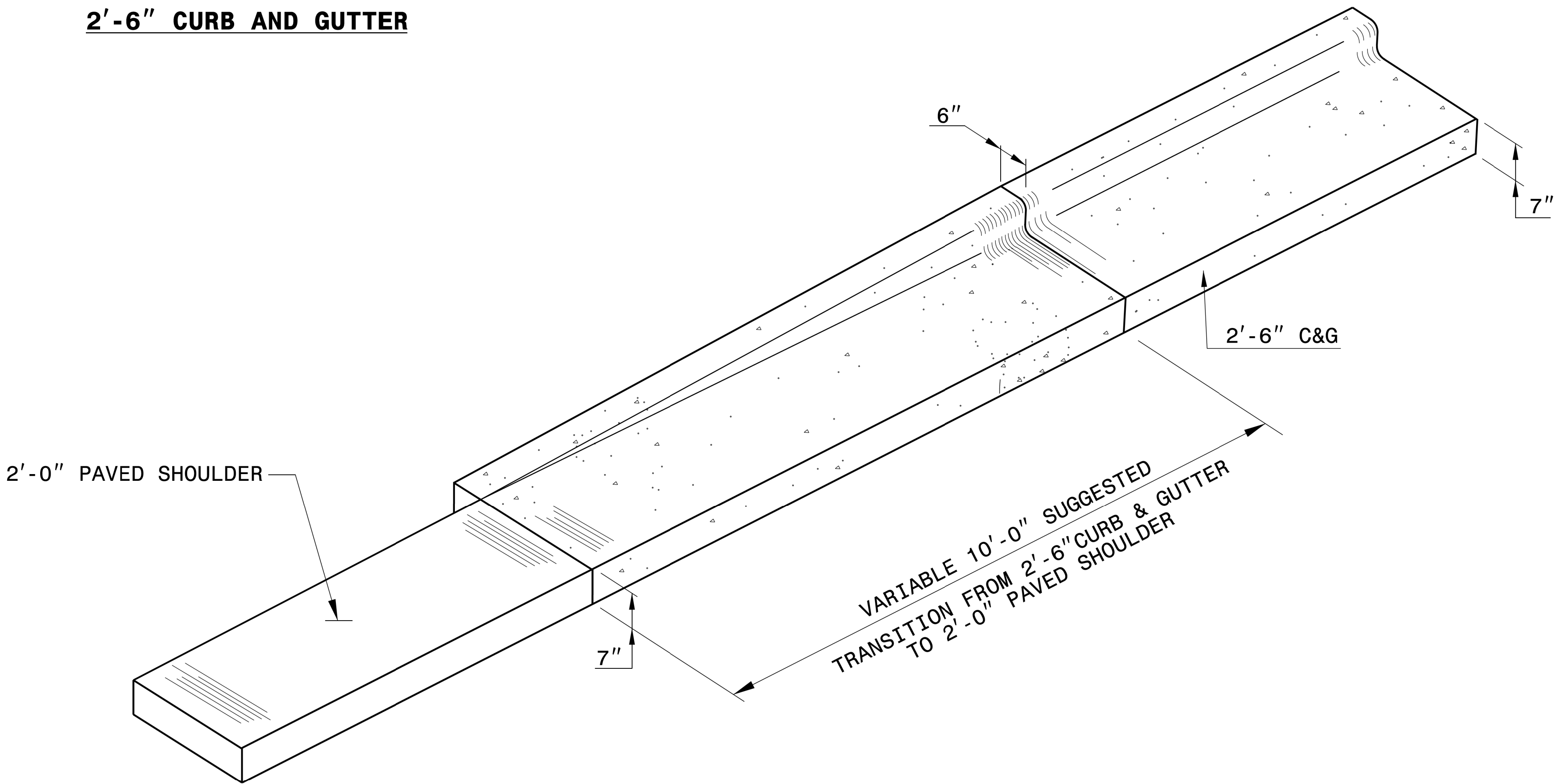
5/14/99

| PROJECT REFERENCE NO. | SHEET NO. |
|-----------------------|-----------|
| U-5728                | 2C-1      |

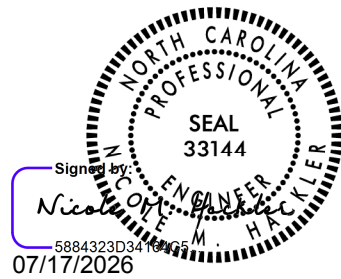
\*NOTE: SEE STD. DWG. 846.01  
FOR GENERAL NOTES



**2'-6" CURB AND GUTTER**



**ISOMETRIC VIEW OF TRANSITION**



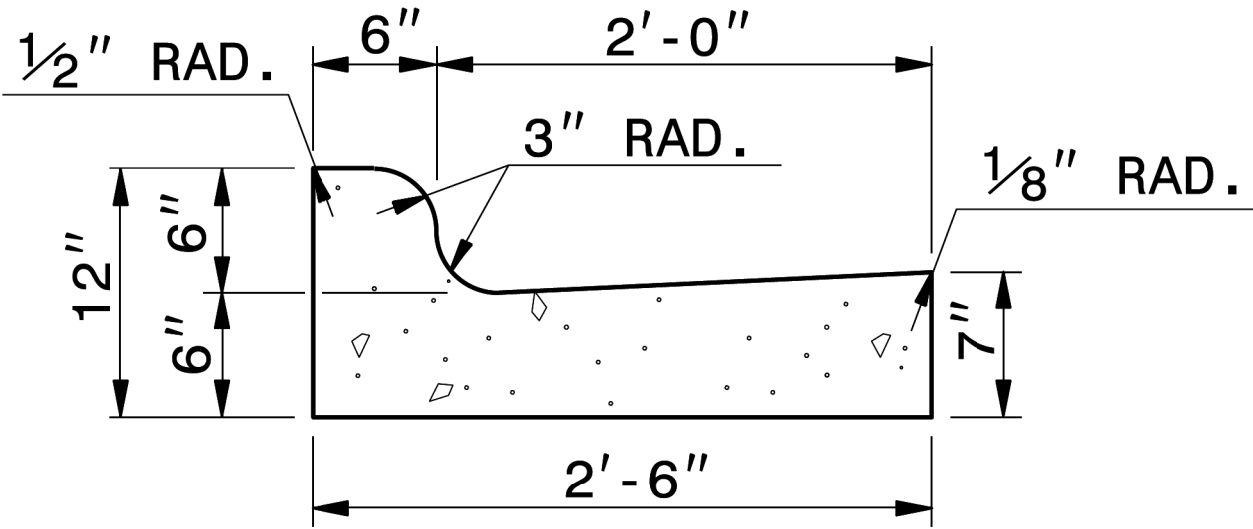
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

| CONTRACT STANDARDS<br>AND DEVELOPMENT UNIT                                      |                         |
|---------------------------------------------------------------------------------|-------------------------|
| Office 919-707-6950                                                             | FAX 919-250-4119        |
| DETAIL OF 10' TRANSITION<br>FROM 2'-6" CURB & GUTTER<br>TO 2'-0" PAVED SHOULDER |                         |
| ORIGINAL BY: _____                                                              | DATE: _____             |
| MODIFIED BY: <u>rnbritt</u>                                                     | DATE: <u>04-13-2016</u> |
| CHECKED BY: _____                                                               | DATE: _____             |
| FILE SPEC: <u>details/nbritt/english/misc/c&amp;g transition sections.dgn</u>   |                         |

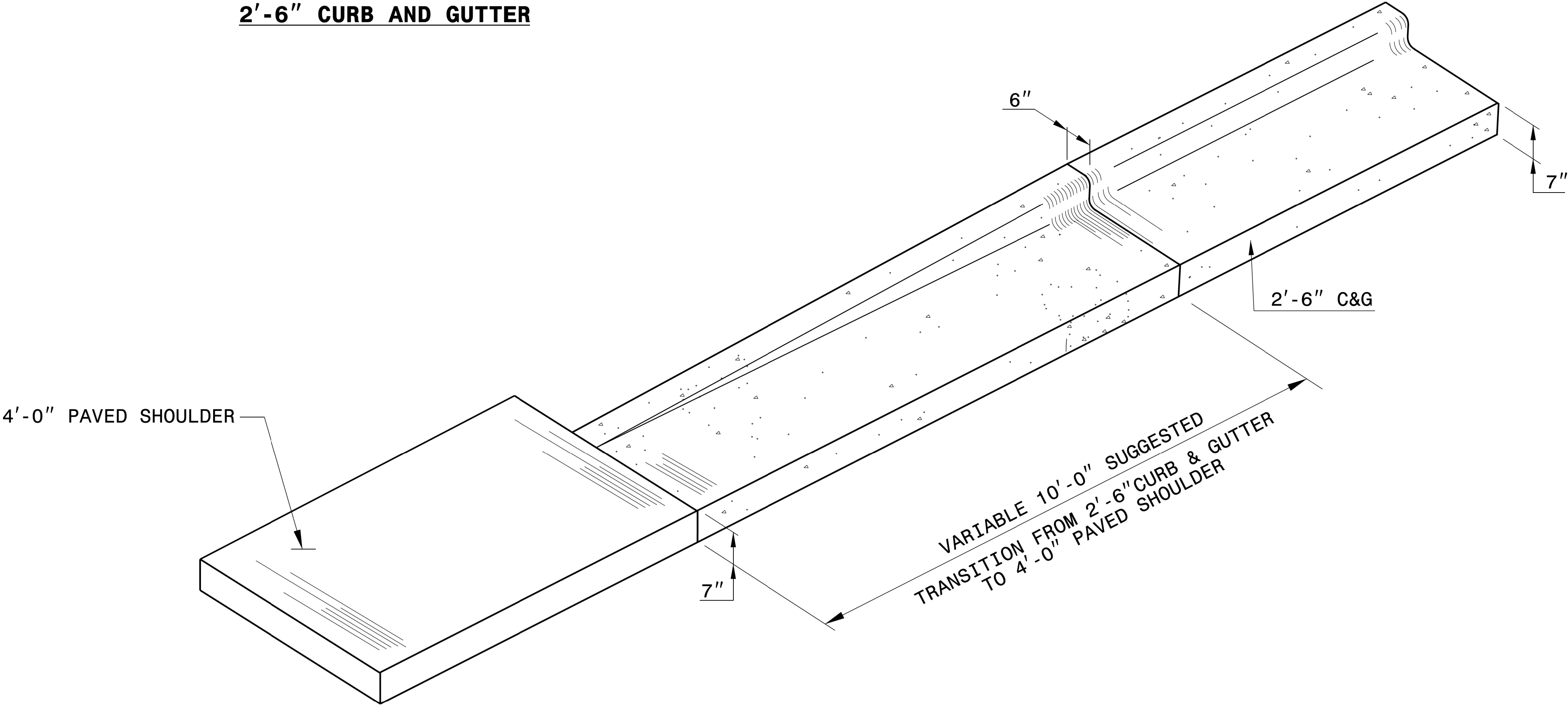
5/14/99

| PROJECT REFERENCE NO. | SHEET NO. |
|-----------------------|-----------|
| U-5728                | 2C-2      |

\*NOTE: SEE STD. DWG. 846.01  
FOR GENERAL NOTES



**2'-6" CURB AND GUTTER**



**ISOMETRIC VIEW OF TRANSITION**

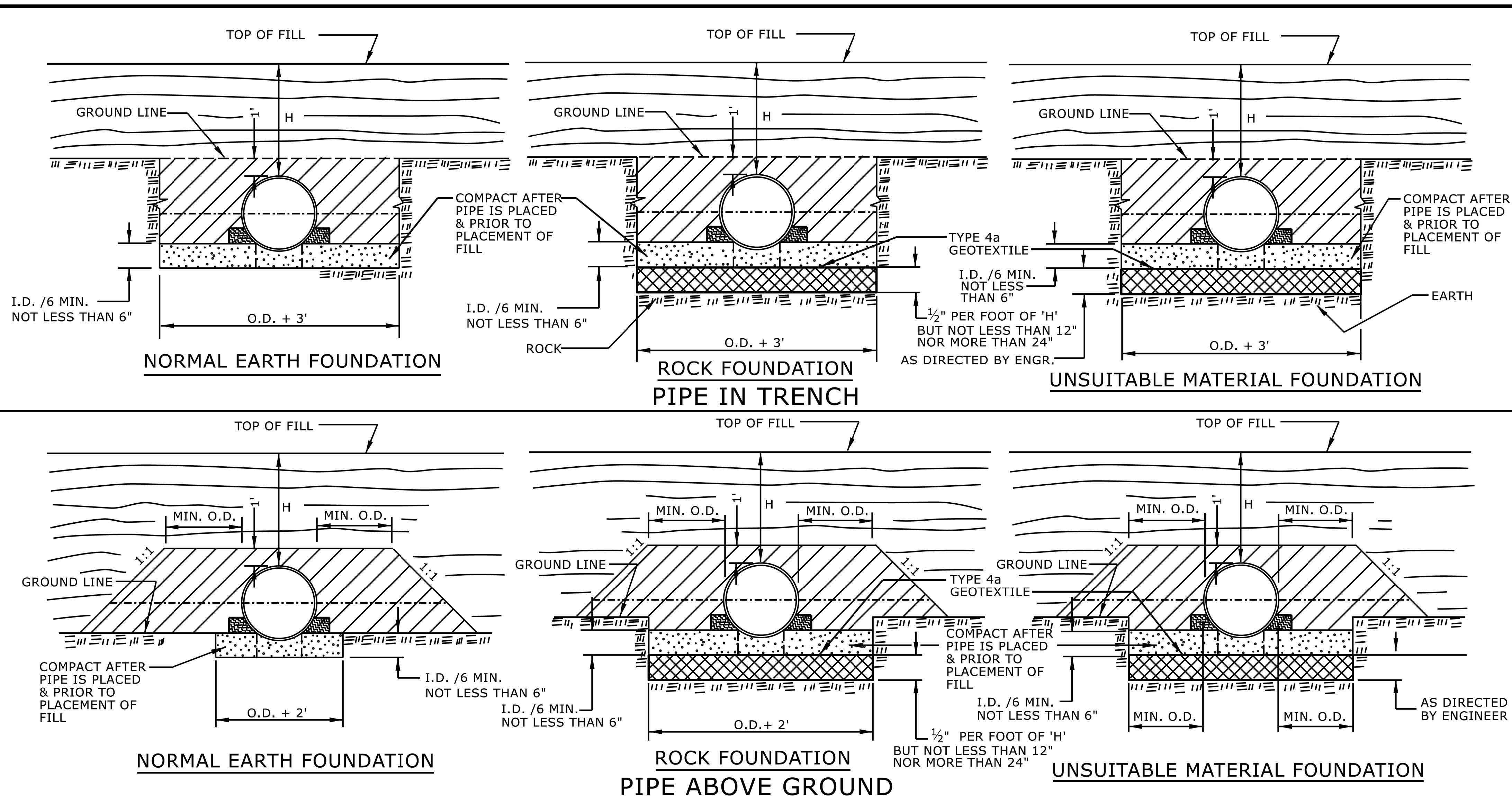


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**DETAIL OF 10' TRANSITION  
FROM 2'-6" CURB & GUTTER  
TO 4'-0" PAVED SHOULDER**

ORIGINAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
MODIFIED BY: rnbritt DATE: 04-13-2016  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
FILE SPEC.: details/nbritt/english/misc/c&g transition sections.dgn



GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT  
ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP  
OF THE EMBANKMENT AT THAT POINT.

|                                                                                     |                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | APPROVED SUITABLE LOCAL MATERIAL.                                                                                                                                                       |
|  | TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.                                                                                                                                |
|  | LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION. |

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS  
FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

|                                                                                       |                                                                                                                                |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|  | SPRINGLINE OF PIPE                                                                                                             |
|  | SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1<br>ABOVE AND BELOW SPRINGLINE.                                          |
|  | UNDISTURBED EARTH MATERIAL                                                                                                     |
|  | SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE<br>WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER. |

|                                                                                                  |                                                                                                           |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <p>ROADWAY DETAIL DRAWING FOR</p> <p><b>METHOD OF PIPE INSTALLATION</b></p> <p>FLEXIBLE PIPE</p> | <p>STATE OF<br/>NORTH CAROLINA<br/>DEPT. OF TRANSPORTATION<br/>DIVISION OF HIGHWAYS<br/>RALEIGH, N.C.</p> |
| <p>SHEET 1 OF 2</p> <p><b>300.01</b></p>                                                         |                                                                                                           |

Signed by  
*Nicole M. Hackie*  
07/17/2026

5884323034164C5...



The seal is a circular emblem with a double-lined border. The outer ring contains the text "NORTH CAROLINA" at the top and "NICOLE M. HACKIE" at the bottom. The inner ring contains the text "PROFESSIONAL" at the top and "ENGINEER" at the bottom. In the center of the seal, the word "SEAL" is positioned above the number "033144".

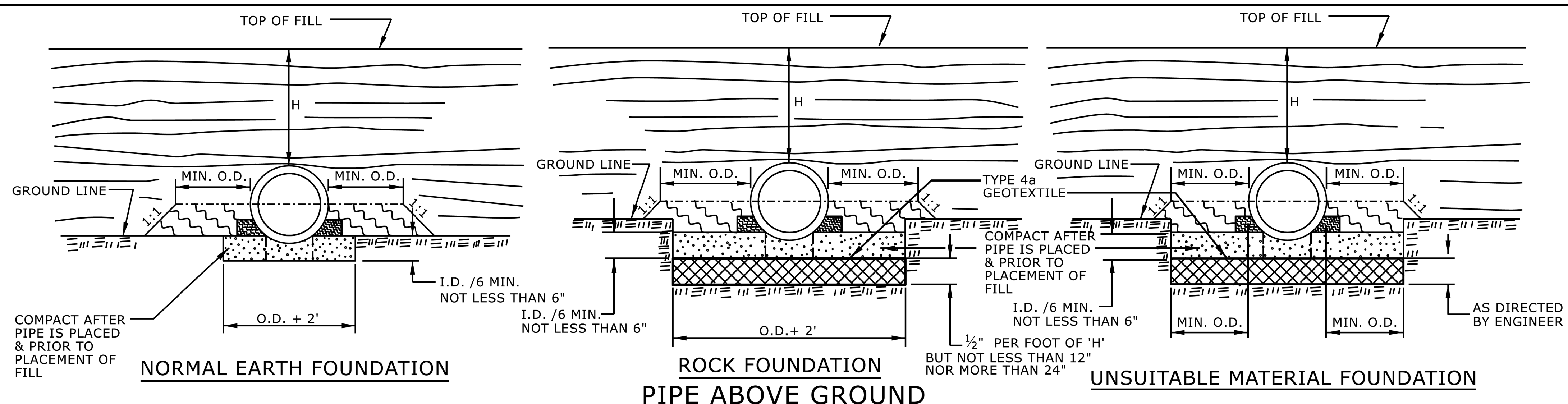
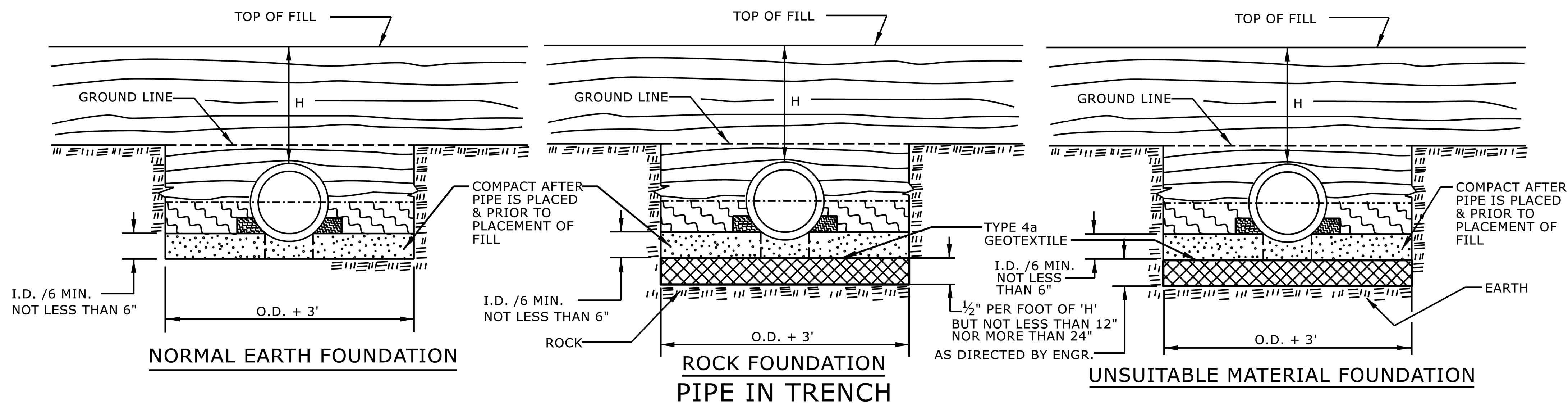
SHEET 1 OF 2  
**300.01**

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

**CONTRACTS STANDARDS  
AND DEVELOPMENT UNIT**  
919-707-6950 FAX 919-250-4

**SEE TITLE BLOCK**

ORIGINAL BY: S.CALHOUN      DATE: 7-25-2024  
 MODIFIED BY: \_\_\_\_\_      DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_      DATE: \_\_\_\_\_  
 FILE SPEC.: \_\_\_\_\_



GENERAL NOTES:  
I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.  
O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.  
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT  
ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP  
OF THE EMBANKMENT AT THAT POINT.

|                                                                                     |                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | APPROVED SUITABLE LOCAL MATERIAL.                                                                                                                                                       |
|  | TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.                                                                                                                                |
|  | LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION. |

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS  
FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

|                                                                                       |                                                                                                                                |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|  | SPRINGLINE OF PIPE                                                                                                             |
|  | SELECT BACKFILL MATERIAL CLASS III OR CLASS II,<br>BELOW SPRINGLINE.                                                           |
|  | UNDISTURBED EARTH MATERIAL                                                                                                     |
|  | SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE<br>WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER. |

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

# ROADWAY DETAIL DRAWING FOR METHOD OF PIPE INSTALLATION RIGID PIPE

SHEET 2 OF 2  
300.01



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS  
AND DEVELOPMENT UNIT**  
Tel 919-707-6950 FAX 919-250-4

**SEE TITLE BLOCK**

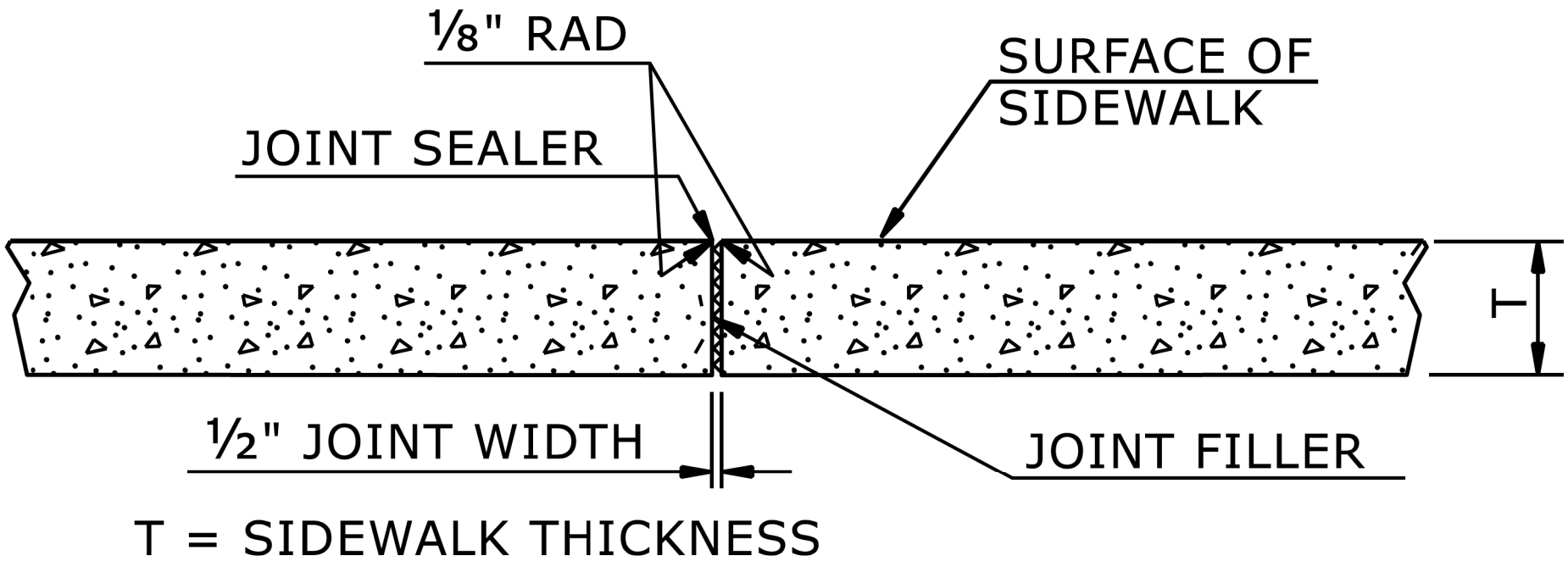
ORIGINAL BY: S.CALHOUN DATE: 7-25-2024  
MODIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
FILE SPEC: \_\_\_\_\_

NOTES:

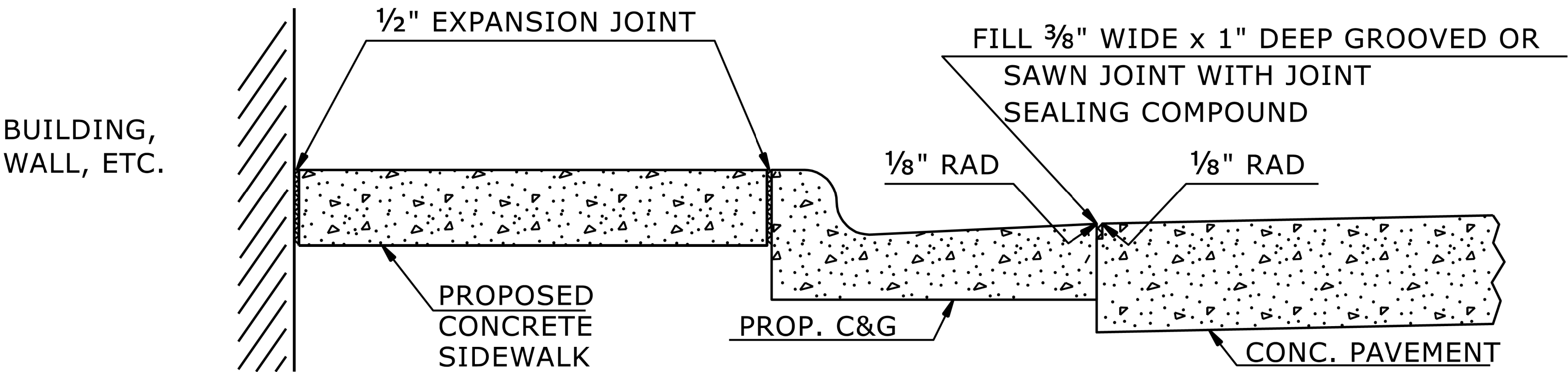
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



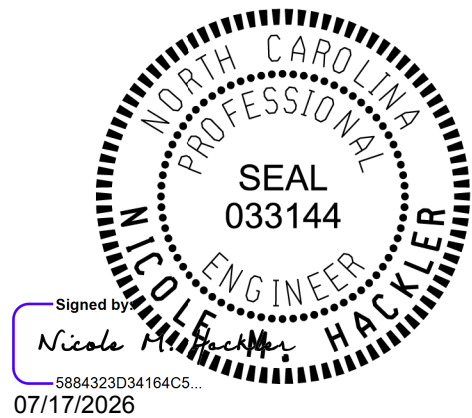
TRANSVERSE EXPANSION JOINT  
IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

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

ROADWAY DETAIL DRAWING FOR  
**CONCRETE SIDEWALK**



SHEET 1 OF 1  
**848D01**

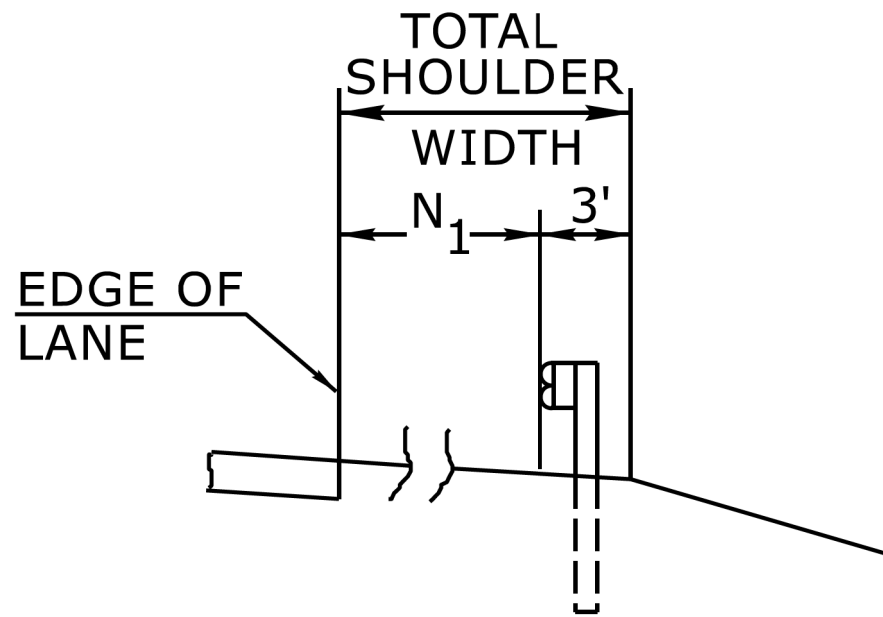
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS  
AND DEVELOPMENT UNIT**

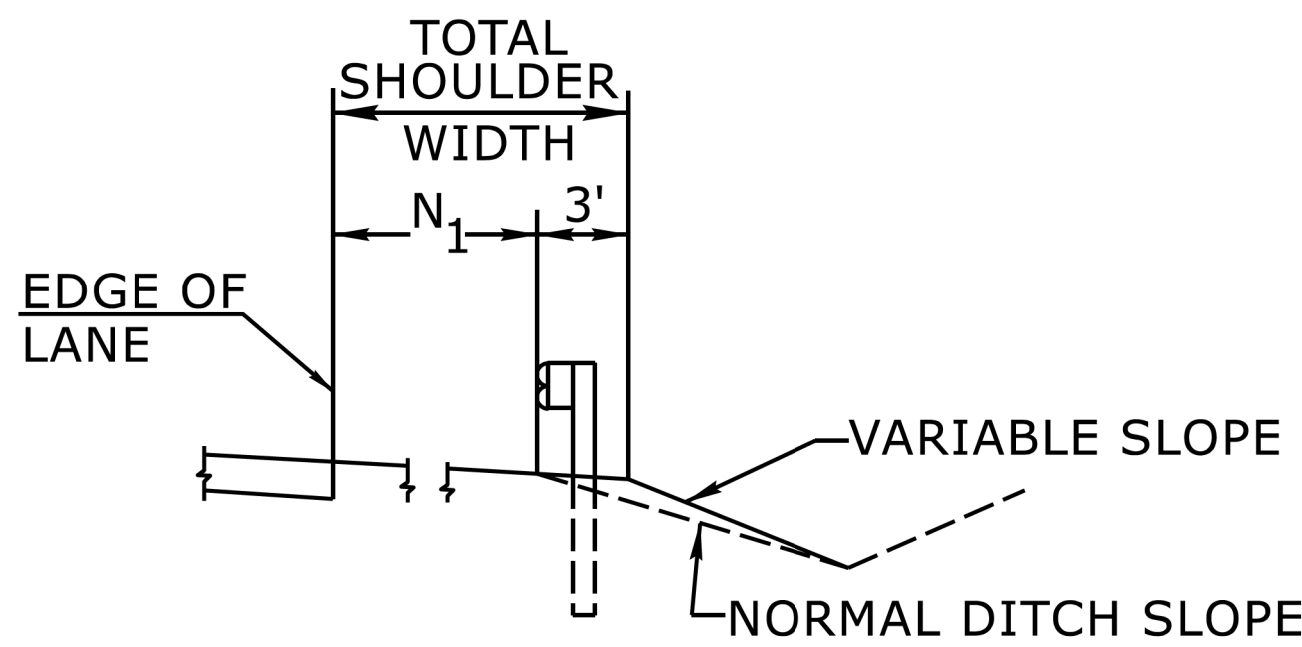
Office 919-707-6950 FAX 919-250-4119

**SEE TITLE BLOCK**

|                        |                 |
|------------------------|-----------------|
| ORIGINAL BY: S.CALHOUN | DATE: 7-25-2024 |
| MODIFIED BY:           | DATE:           |
| CHECKED BY:            | DATE:           |
| FILE SPEC.:            |                 |

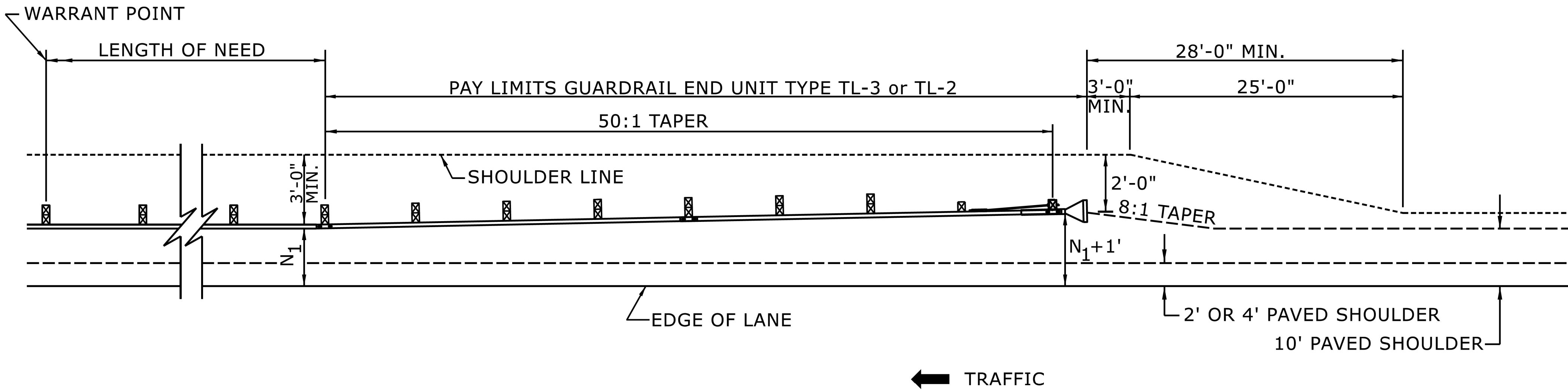


FILL SECTION



CUT SECTION

"N<sub>1</sub>"= DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL WHERE GUARDRAIL IS PARALLEL TO LANE.



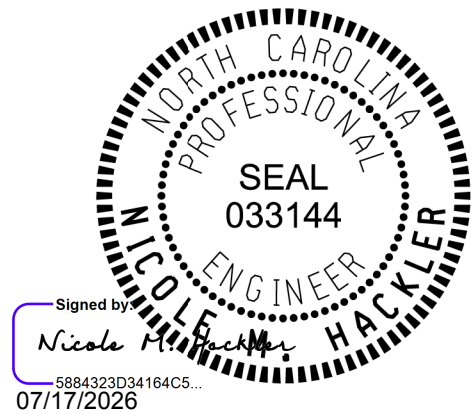
FOR POSTED SPEEDS ≥ 45mph USE GREU TYPE TL-3  
FOR POSTED SPEEDS < 45mph USE GREU TYPE TL-2

DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

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

ROADWAY DETAIL DRAWING FOR  
**GUARDRAIL PLACEMENT**

SHEET 6 OF 15  
**862D01**

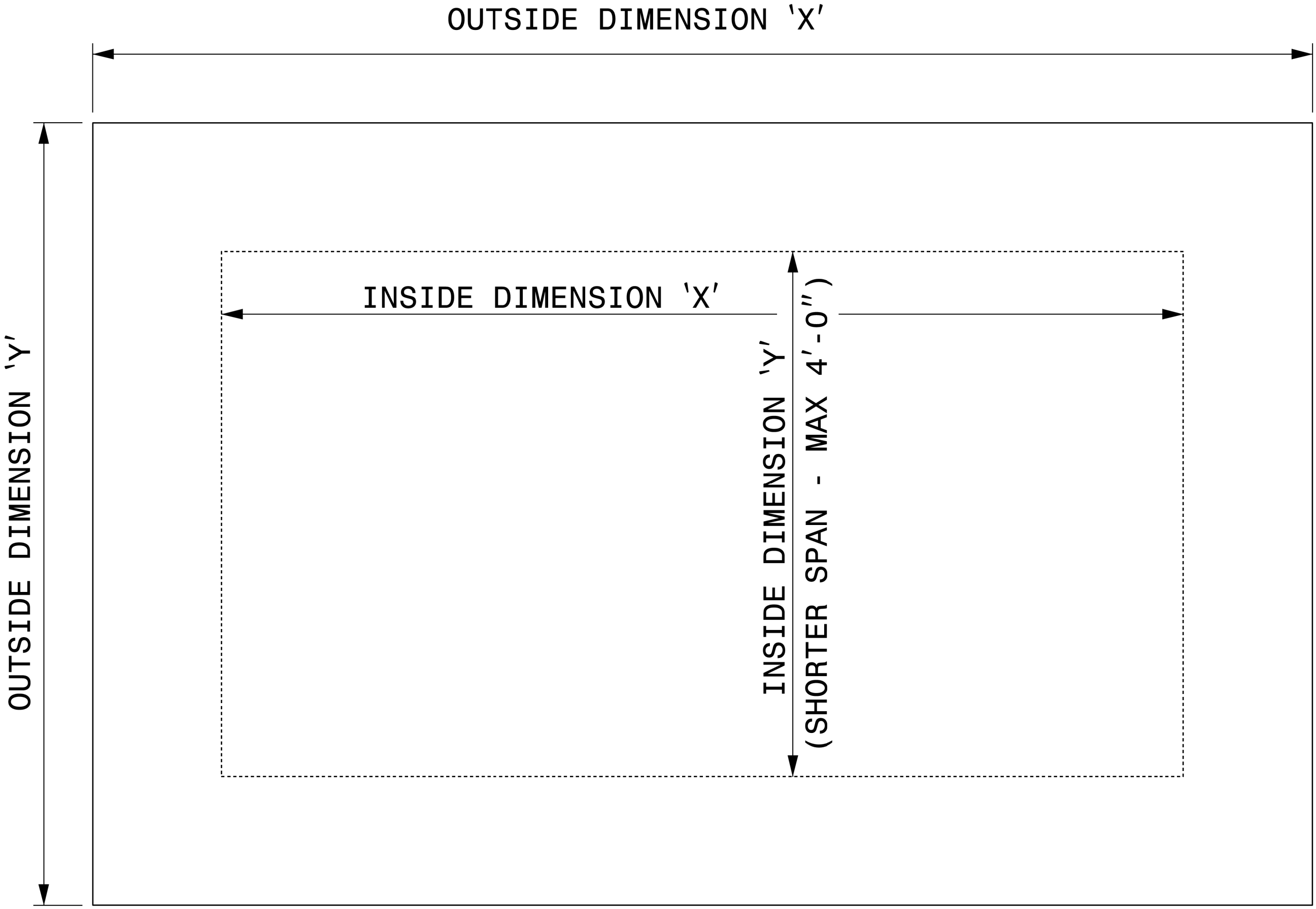


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS  
AND DEVELOPMENT UNIT  
Office 919-707-6950 FAX 919-250-4119

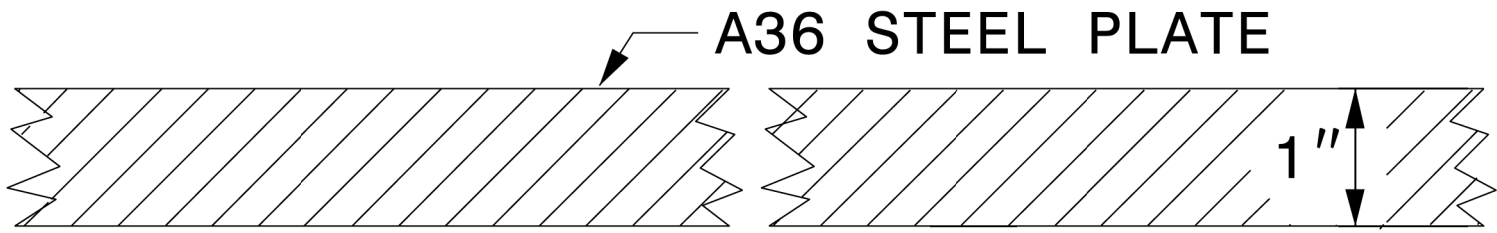
**SEE TITLE BLOCK**

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024  
MODIFIED BY: DATE:  
CHECKED BY: DATE:  
FILE SPEC.: DATE:



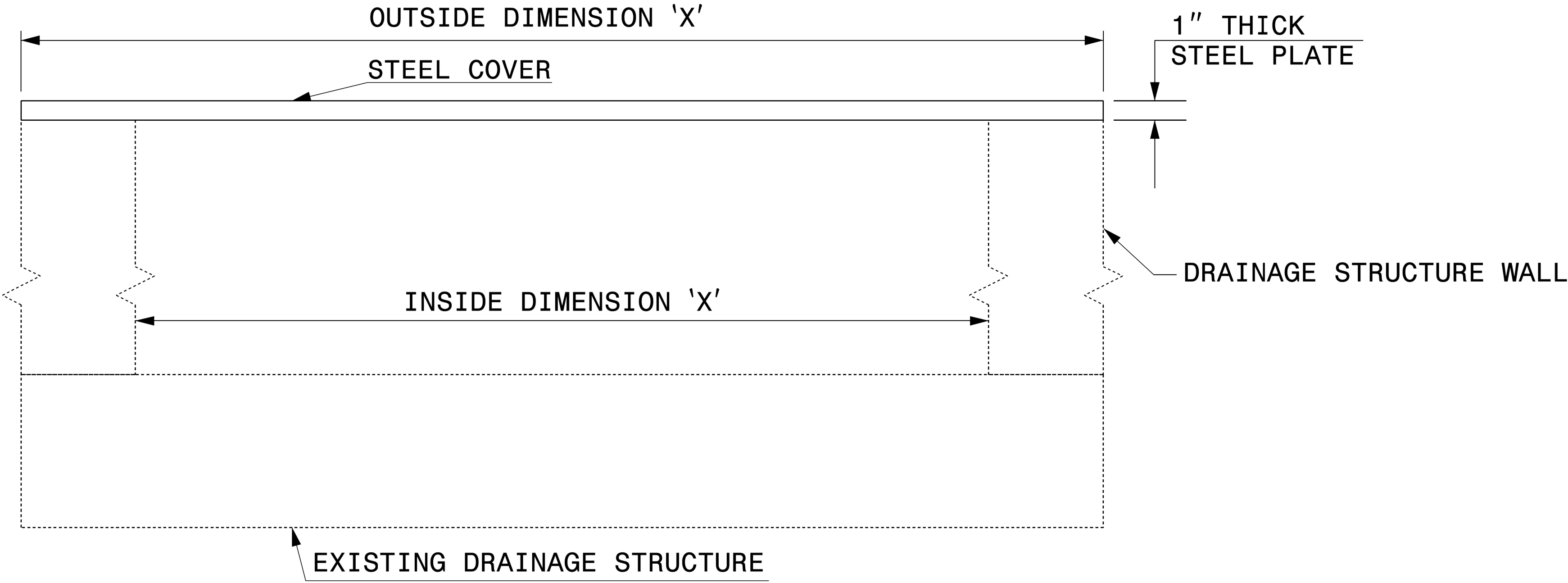
GENERAL NOTES:

- USE GRADE A36 STEEL
- STEEL COVERS ARE FOR TEMPORARY USE DURING PHASE CONSTRUCTION.
- FILL SHALL BE PLACED DIRECTLY OVER THE STEEL PLATES.
- SEE ROADWAY PLANS AND PROVISIONS FOR LOCATIONS
- QUANTITIES TO BE PAID FOR AT THE UNIT PRICE BID PER EACH.

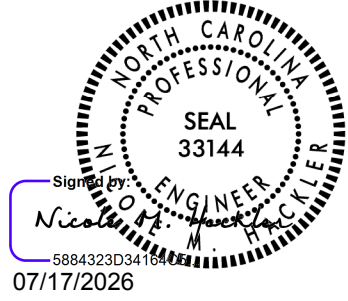


SECTION VIEW OF STEEL TOP PLATE

PLAN VIEWS



ELEVATION VIEWS



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

|                                                                           |                  |
|---------------------------------------------------------------------------|------------------|
| <b>CONTRACT STANDARDS<br/>AND DEVELOPMENT UNIT</b>                        |                  |
| Office 919-707-6950                                                       | FAX 919-250-4119 |
| <b>DETAIL OF TEMPORARY<br/>1" STEEL COVER<br/>OVER DRAINAGE STRUCTURE</b> |                  |
| ORIGINAL BY: E.E. WARD                                                    | DATE: 2-2-98     |
| MODIFIED BY:                                                              | DATE:            |
| CHECKED BY:                                                               | DATE:            |
| FILE SPEC.: eric:/usr/details/metric/stand/stlcvr2.dgn                    |                  |

5/28/99

NOTE:QUANTITES ARE APPROXIMATE ONLY.THE RESIDEN ENGINEER WILL USE METHODS INCLUDING BUT NOT LIMITED TO RECROSS-SECTIONING,TRUCK MEASUREMENTS,AND AERIAL SURVEYS TO COMPUTE FINAL QUANTITIES WHICH THE CONTRACTOR WILL BE PAID.

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

|                       |           |
|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-5728                | 3B-1      |

ASPHALT PAVEMENT REMOVAL  
SUMMARY

| LINE  | BEGIN STA. | END STA. | LOCATION | AREA FT | AREA YD |
|-------|------------|----------|----------|---------|---------|
| -L-   | 10+00      | 14+50    | MED      | 5503.19 | 611.47  |
| -Y2-  | 11+33      | 15+24    | MED      | 8060.75 | 895.63  |
| TOTAL |            |          |          |         | 1507.11 |
| SAY   |            |          |          |         | 1510    |

SUMMARY OF EARTHWORK  
IN CUBIC YARDS

| LINE                              | STATION  | STATION  | UNCL. EXCAV. | UNDERCUT | EMBANK. | BORROW | WASTE |
|-----------------------------------|----------|----------|--------------|----------|---------|--------|-------|
| -L- RT                            | 25+50.00 | 37+00.00 | 951          |          | 420     |        | 531   |
| SUBTOTALS:                        |          |          | 951          |          | 420     |        | 531   |
| -Y1-                              | 12+50.00 | 19+50.00 | 705          |          | 369     |        | 336   |
| SUBTOTALS:                        |          |          | 705          |          | 369     |        | 336   |
| -L- RT                            | 11+50.00 | 24+00.00 | 686          |          | 693     | 32     | 25    |
| SUBTOTALS:                        |          |          | 686          |          | 693     | 32     | 25    |
| -L- LT                            | 10+00.00 | 14+50.00 | 160          |          |         |        | 160   |
| SUBTOTALS:                        |          |          | 160          |          |         |        | 160   |
| TOTAL:                            |          |          | 2502         |          | 1482    | 32     | 1052  |
| LOSS DUE TO CLEARING AND GRUBBING |          |          | -100         |          |         |        | -100  |
| WASTE IN LIEU OF BORROW           |          |          |              |          |         | -32    | -32   |
| PROJECT TOTAL:                    |          |          | 2402         | 500      | 1482    | 0      | 920   |
| GRAND TOTALS:                     |          |          | 2432         | 500      | 1482    | 0      | 920   |
| SAY:                              |          |          | 2500         | 500      |         |        |       |

UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN THE TOP 3FT OF EMBANKMENT OR BACKFILL = 425 CY (-L- STA. 26+75 TO 33+00)  
SHOULDER BORROW = 225 CUBIC YARDS  
EST SHALLOW UNDERCUT = 1345 CUBIC YARDS  
EST SELECT GRANULAR MATERIAL = 750 CUBIC YARDS  
CLASS IV SUBGRADE STABILIZATION = 2565 TONS  
PER GEOTECH RECOMMENDATION, ESTIMATED 500 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.

5/28/99

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".

***SUB-REGIONAL & REGIONAL  
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)***

[illegible]

***SUB-REGIONAL & REGIONAL  
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)***

| STATION | LOCATION (LT,RT, OR CL) | STRUCTURE NO.      |    | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | DRAINAGE PIPE<br>(RCP, CSP, CAAP, HDPE, or PVC) |                |                         |                 |                 |      |      |      | C.S. PIPE   |            |      |        |      |        |               |      | R.C. PIPE<br>(CLASS III) |          |          |     |     |     |     |     | R.C. PIPE<br>(CLASS IV) |     |     |     |     |     |     |     | 15" R.C. PIPE (CLASS V) | 18" R.C. PIPE (CLASS V) | 24" R.C. PIPE (CLASS V) | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS |     | QUANTITIES FOR MANHOLE STRUCTURES<br>* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL.<br>1/4" + (1.3 X COL.8) |   |               |  | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES AND HOOD<br>STANDARD 840.03 |  |  |  | CONCRETE TRANSITIONAL SECTION |  | G.D.I. TYPE "A" STD. 840.17 OR 840.26<br>G.D.I. TYPE "B" STD. 840.18 OR 840.27<br>G.D.I. TYPE "D" STD. 840.19 OR 840.28<br>G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24<br>T.B.D.I. STD. 840.36<br>T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37<br>T.B.I.B. STD. 840.34<br>M.H. FRAME & COVER STD. 840.54<br>D.I. STD. 840.14 OR STD. 840.15<br>D.I. FRAME & GRATES STD. 840.16<br>CONC. COLLARS CL "B" C.Y. STD. 840.72<br>FLOWABLE FILL C.Y.<br>CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71<br>PIPE REMOVAL LIN.FT. |  |  |  | ABBREVIATIONS |  |  |  | REMARKS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|         |                         |                    |    |               |                  |                  |                | R.C.P.                                          | C.S.P.         | PER EACH (0' THRU 5.0') | 5.0' THRU 10.0' | 10.0' AND ABOVE | E    | F    | G    | CATCH BASIN | DROP INLET | C.B. | N.D.I. | D.I. | G.D.I. | G.D.I. (N.S.) | J.B. | M.H.                     | T.B.D.I. | T.B.J.B. |     |     |     |     |     |                         |     |     |     |     |     |     |     |                         |                         |                         |                     |                     |          |     |                                                                                                          |   |               |  |                                 |                                           |  |  |  |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |               |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|         |                         | FROM               | TO |               |                  |                  |                | DO NOT USE RCP                                  | DO NOT USE CSP | DO NOT USE CAAP         | DO NOT USE HDPE | .064            | .064 | .064 | .079 | .109        | .109       | 12"  | 15"    | 18"  | 24"    | 30"           | 36"  | 42"                      | 48"      | 12"      | 15" | 18" | 24" | 30" | 36" | 42"                     | 48" | 12" | 15" | 18" | 24" | 30" | 36" |                         |                         |                         |                     |                     | 42"      | 48" | A                                                                                                        | B | LEN.<br>"FT." |  |                                 |                                           |  |  |  |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |               |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|         |                         | THICKNESS OR GAUGE |    |               |                  |                  |                |                                                 |                |                         |                 |                 |      |      |      |             |            |      |        |      |        |               |      |                          |          |          |     |     |     |     |     |                         |     |     |     |     |     |     |     |                         |                         |                         |                     |                     |          |     |                                                                                                          |   |               |  |                                 |                                           |  |  |  |                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |               |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## SUB-REGIONAL & REGIONAL

## ABBREVIATIONS

| STATION       | LOCATION (LT, RT, OR CL) | STRUCTURE NO.      |      | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | DRAINAGE PIPE<br>(RCP, CSP, CAAP, HDPE, or PVC) |                |                |                 |                                       |      |      |      |                                       |      |      |      | C.S. PIPE                             |     |     |     |                                                 |     | R.C. PIPE<br>(CLASS III) |     |                      |     |     |     | R.C. PIPE<br>(CLASS IV)                                 |     |     |     |                      |        | 15" R.C. PIPE (CLASS V) | 18" R.C. PIPE (CLASS V) | 24" R.C. PIPE (CLASS V)        | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS                |                                 | QUANTITIES FOR DRAINAGE STRUCTURES<br>* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL.<br>"A" + (1.3 X COL."B") |   |   |                                 | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES AND HOOD<br>STANDARD 840.03 |            |                                       |                                       | CONCRETE TRANSITIONAL SECTION         |                                                 | G.D.I. TYPE "A" STD. 840.17 OR 840.26<br>G.D.I. TYPE "B" STD. 840.18 OR 840.27<br>G.D.I. TYPE "D" STD. 840.19 OR 840.28<br>G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24<br>T.B.D.I. STD. 840.36<br>T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37<br>T.B.I.B. STD. 840.34<br>M.H. FRAME & COVER STD. 840.54<br>D.I. STD. 840.14 OR STD. 840.15<br>D.I. FRAME & GRATES STD. 840.16<br>CONC. COLLARS CL "B" C.Y. STD 840.72<br>FLOWABLE FILL C.Y.<br>CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71<br>PIPE REMOVAL LIN.FT. |                                                         |                      |                                |                                           |                                 |                                      |                    |                                           |                      |                      |                      | ABBREVIATIONS |        |        |        | REMARKS |      |      |      |      |        |        |        |        |      |      |      |      |      |      |      |      |          |          |          |          |          |          |          |          |  |  |
|---------------|--------------------------|--------------------|------|---------------|------------------|------------------|----------------|-------------------------------------------------|----------------|----------------|-----------------|---------------------------------------|------|------|------|---------------------------------------|------|------|------|---------------------------------------|-----|-----|-----|-------------------------------------------------|-----|--------------------------|-----|----------------------|-----|-----|-----|---------------------------------------------------------|-----|-----|-----|----------------------|--------|-------------------------|-------------------------|--------------------------------|---------------------|---------------------|-------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------|---|---|---------------------------------|---------------------------------|-------------------------------------------|------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------|--------------------------------|-------------------------------------------|---------------------------------|--------------------------------------|--------------------|-------------------------------------------|----------------------|----------------------|----------------------|---------------|--------|--------|--------|---------|------|------|------|------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|
|               |                          | THICKNESS OR GAUGE | FROM |               |                  |                  |                | TO                                              | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE                       | .064 | .064 | .064 | .064                                  | .079 | .109 | .109 | 12"                                   | 15" | 18" | 24" | 30"                                             | 36" | 42"                      | 48" | 12"                  | 15" | 18" | 24" | 30"                                                     | 36" | 42" | 48" | R.C.F.               | C.S.P. |                         |                         |                                |                     |                     | PER EACH (0' THRU 5.0') | 5.0' THRU 10.0'                 | 10.0' AND ABOVE                                                                                            | E | F | G                               |                                 | CATCH BASIN                               | DROP INLET | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | T.B.D.I. STD. 840.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 | T.B.I.B. STD. 840.34 | M.H. FRAME & COVER STD. 840.54 | D.I. STD. 840.14 OR STD. 840.15           | D.I. FRAME & GRATES STD. 840.16 | CONC. COLLARS CL "B" C.Y. STD 840.72 | FLOWABLE FILL C.Y. | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | C.B.                 |                      |               |        | N.D.I. |        |         |      | D.I. |      |      |        | G.D.I. |        |        |      | J.B. |      |      |      | M.H. |      |      |          | T.B.D.I. |          |          |          | T.B.I.B. |          |          |  |  |
|               |                          |                    |      |               |                  |                  |                |                                                 |                |                |                 |                                       |      |      |      |                                       |      |      |      |                                       |     |     |     |                                                 |     |                          |     |                      |     |     |     |                                                         |     |     |     |                      |        |                         |                         |                                |                     |                     |                         |                                 |                                                                                                            |   |   |                                 |                                 |                                           |            |                                       |                                       |                                       |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |                      |                                |                                           |                                 |                                      |                    |                                           |                      | CATCH BASIN          |                      |               |        | N.D.I. |        |         |      | D.I. |      |      |        | G.D.I. |        |        |      | J.B. |      |      |      | M.H. |      |      |          | T.B.D.I. |          |          |          | T.B.I.B. |          |          |  |  |
|               |                          |                    |      |               |                  |                  |                |                                                 |                |                |                 |                                       |      |      |      |                                       |      |      |      |                                       |     |     |     |                                                 |     |                          |     |                      |     |     |     |                                                         |     |     |     |                      |        |                         |                         |                                |                     |                     |                         |                                 |                                                                                                            |   |   |                                 |                                 |                                           |            |                                       |                                       |                                       |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |                      |                                |                                           |                                 |                                      |                    |                                           |                      | CATCH BASIN          |                      |               |        | N.D.I. |        |         |      | D.I. |      |      |        | G.D.I. |        |        |      | J.B. |      |      |      | M.H. |      |      |          | T.B.D.I. |          |          |          | T.B.I.B. |          |          |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    | PIPE REMOVAL LIN.FT.                      | C.B.                 |                      |                      |               | N.D.I. |        |        |         | D.I. |      |      |      | G.D.I. |        |        |        | J.B. |      |      |      | M.H. |      |      |      | T.B.D.I. |          |          |          | T.B.I.B. |          |          |          |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           | PIPE REMOVAL LIN.FT. | C.B.                 |                      |               |        | N.D.I. |        |         |      | D.I. |      |      |        | G.D.I. |        |        |      | J.B. |      |      |      | M.H. |      |      |          | T.B.D.I. |          |          |          | T.B.I.B. |          |          |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      | PIPE REMOVAL LIN.FT. | C.B.                 |               |        |        | N.D.I. |         |      |      | D.I. |      |        |        | G.D.I. |        |      |      | J.B. |      |      |      | M.H. |      |          |          | T.B.D.I. |          |          |          | T.B.I.B. |          |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      |                      | PIPE REMOVAL LIN.FT. | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    | PIPE REMOVAL LIN.FT.                      |                      |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           | PIPE REMOVAL LIN.FT. |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      | PIPE REMOVAL LIN.FT. |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      |                      | PIPE REMOVAL LIN.FT. | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    | PIPE REMOVAL LIN.FT.                      |                      |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           | PIPE REMOVAL LIN.FT. |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      | PIPE REMOVAL LIN.FT. |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      |                      | PIPE REMOVAL LIN.FT. | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    | PIPE REMOVAL LIN.FT.                      |                      |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           | PIPE REMOVAL LIN.FT. |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      | PIPE REMOVAL LIN.FT. |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      |                      | PIPE REMOVAL LIN.FT. | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    | PIPE REMOVAL LIN.FT.                      |                      |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           | PIPE REMOVAL LIN.FT. |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      | PIPE REMOVAL LIN.FT. |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    |                                           |                      |                      | PIPE REMOVAL LIN.FT. | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | 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. (N.S.) FRAME WITH TWO GRATES STD. 840.24 |     |                          |     | T.B.D.I. STD. 840.36 |     |     |     | T.B.D.I. (N.S.) FRAME WITH TWO STEEL GRATES STD. 840.37 |     |     |     | T.B.I.B. STD. 840.34 |        |                         |                         | M.H. FRAME & COVER STD. 840.54 |                     |                     |                         | D.I. STD. 840.14 OR STD. 840.15 |                                                                                                            |   |   | D.I. FRAME & GRATES STD. 840.16 |                                 |                                           |            | CONC. COLLARS CL "B" C.Y. STD 840.72  |                                       |                                       |                                                 | FLOWABLE FILL C.Y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |                      |                                | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 |                                 |                                      |                    | PIPE REMOVAL LIN.FT.                      |                      |                      |                      | C.B.          |        |        |        | N.D.I.  |      |      |      | D.I. |        |        |        | G.D.I. |      |      |      | J.B. |      |      |      | M.H. |          |          |          | T.B.D.I. |          |          |          | T.B.I.B. |  |  |
| TYPE OF GRATE |                          |                    |      | CATCH BASIN   |                  |                  |                | DROP INLET                                      |                |                |                 | G.D.I. TYPE "A" STD. 840              |      |      |      |                                       |      |      |      |                                       |     |     |     |                                                 |     |                          |     |                      |     |     |     |                                                         |     |     |     |                      |        |                         |                         |                                |                     |                     |                         |                                 |                                                                                                            |   |   |                                 |                                 |                                           |            |                                       |                                       |                                       |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |                      |                                |                                           |                                 |                                      |                    |                                           |                      |                      |                      |               |        |        |        |         |      |      |      |      |        |        |        |        |      |      |      |      |      |      |      |      |          |          |          |          |          |          |          |          |  |  |

## SUB-REGIONAL & REGIONAL

## Fuller/Desktop/0-5728

[illegible]

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

| LINE        | Station | Station | Location<br>LT/RT/CL | Drain Type*<br>UD/BD/SD | LF   |
|-------------|---------|---------|----------------------|-------------------------|------|
|             |         |         |                      |                         |      |
|             |         |         |                      |                         |      |
| CONTINGENCY |         |         |                      | SD                      | 2300 |
|             |         |         |                      | TOTAL LF:               | 2300 |

\*UD = Underdrain  
\*BD = Blind Drain  
\*SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

| LINE        | Station | Station | Aggregate<br>Type*<br>ASU(1/2)/<br>AST | Aggregate<br>Thickness<br>INCHES<br>[8" for<br>ASU(2)] | Shallow<br>Undercut<br>CY | Class IV<br>Subgrade<br>Stabilization<br>TONS | Geotextile<br>for Subgrade<br>Stabilization<br>SY | Stabilizer<br>Aggregate<br>TONS | Class IV<br>Aggregate<br>Stabilization<br>TONS |
|-------------|---------|---------|----------------------------------------|--------------------------------------------------------|---------------------------|-----------------------------------------------|---------------------------------------------------|---------------------------------|------------------------------------------------|
| -L-         | 18+25   | 23+00   | ASU1                                   | 12                                                     | 335                       | 600                                           | 1010                                              |                                 |                                                |
| -L-         | 26+25   | 33+00   | ASU1                                   | 12                                                     | 335                       | 650                                           | 1010                                              |                                 |                                                |
| -L-         | 12+75   | 17+00   | ASU1                                   | 12                                                     | 325                       | 640                                           | 980                                               |                                 |                                                |
| CONTINGENCY |         |         | ASU1                                   | 12                                                     | 350                       | 675                                           | 1050                                              |                                 |                                                |
|             |         |         | TOTAL CY/TONS/SY:                      |                                                        | 1345                      | 2565**                                        | 4050**                                            | 0                               | 0                                              |

\*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)  
\*AST = Aggregate Stabilization  
\*\*Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

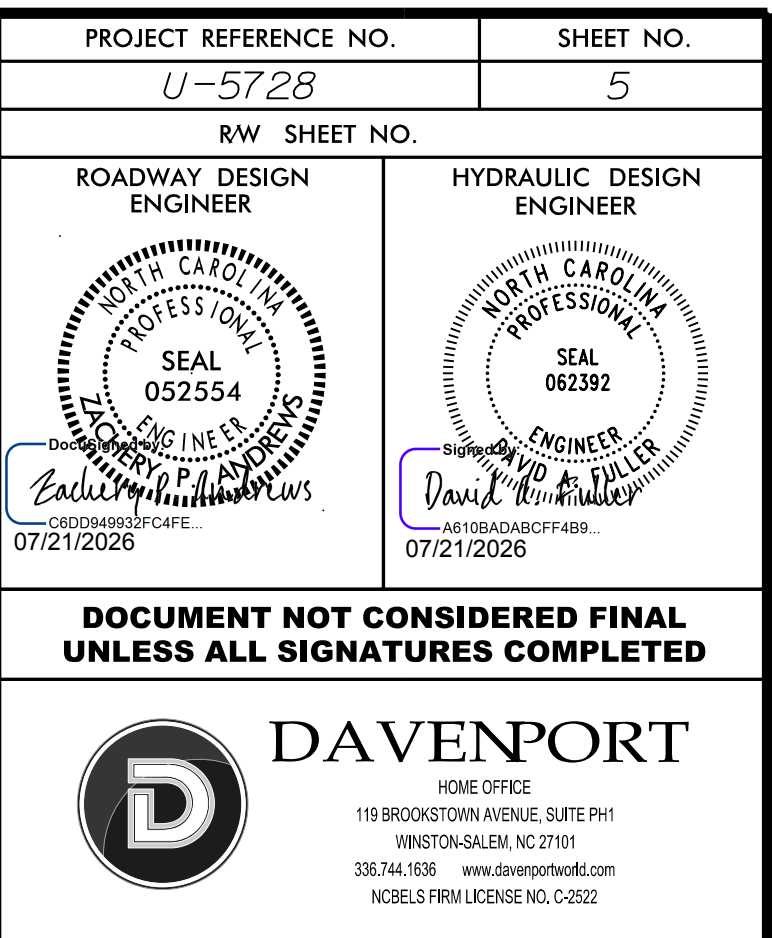
## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

|                            |                  |
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| <b>PROJ. REFERENCE NO.</b> | <b>SHEET NO.</b> |
| U-5728                     | 3P-1             |

# PARCEL INDEX SHEET

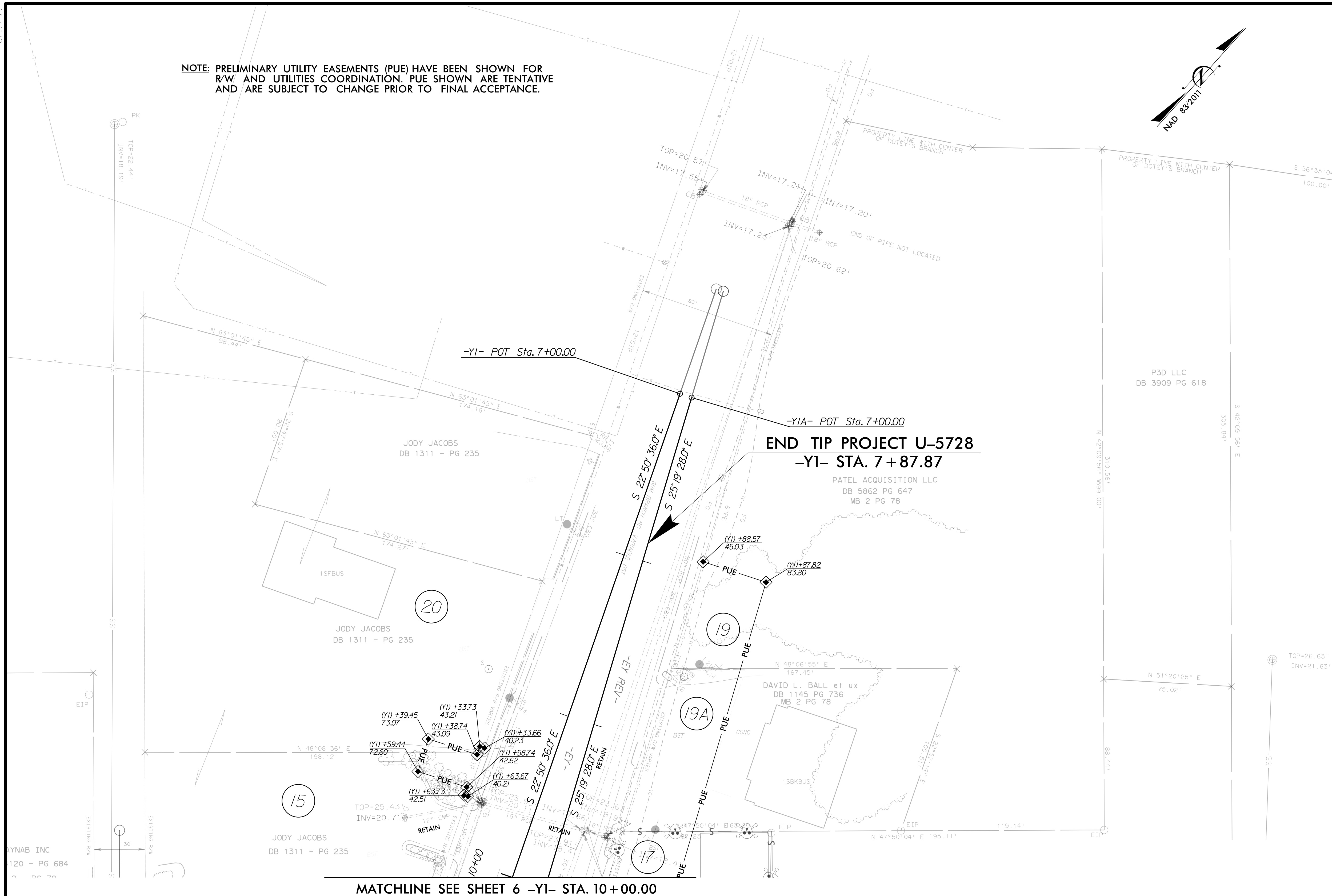
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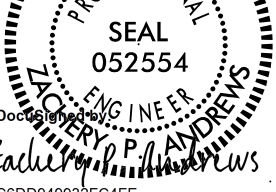
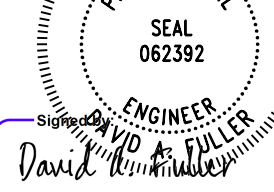




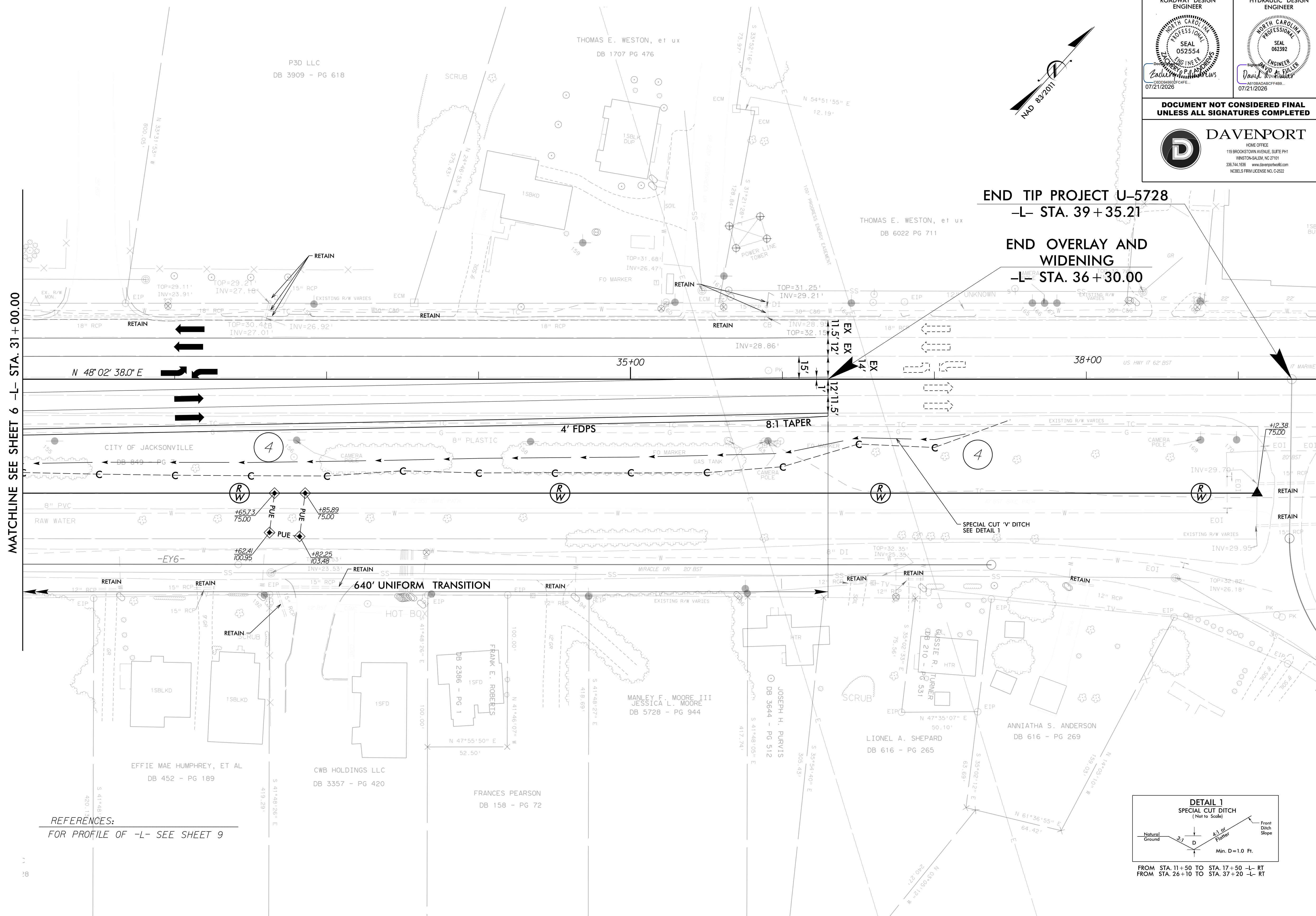


**NOTE:** PRELIMINARY UTILITY EASEMENTS (PUE) HAVE BEEN SHOWN FOR R/W AND UTILITIES COORDINATION. PUE SHOWN ARE TENTATIVE AND ARE SUBJECT TO CHANGE PRIOR TO FINAL ACCEPTANCE.

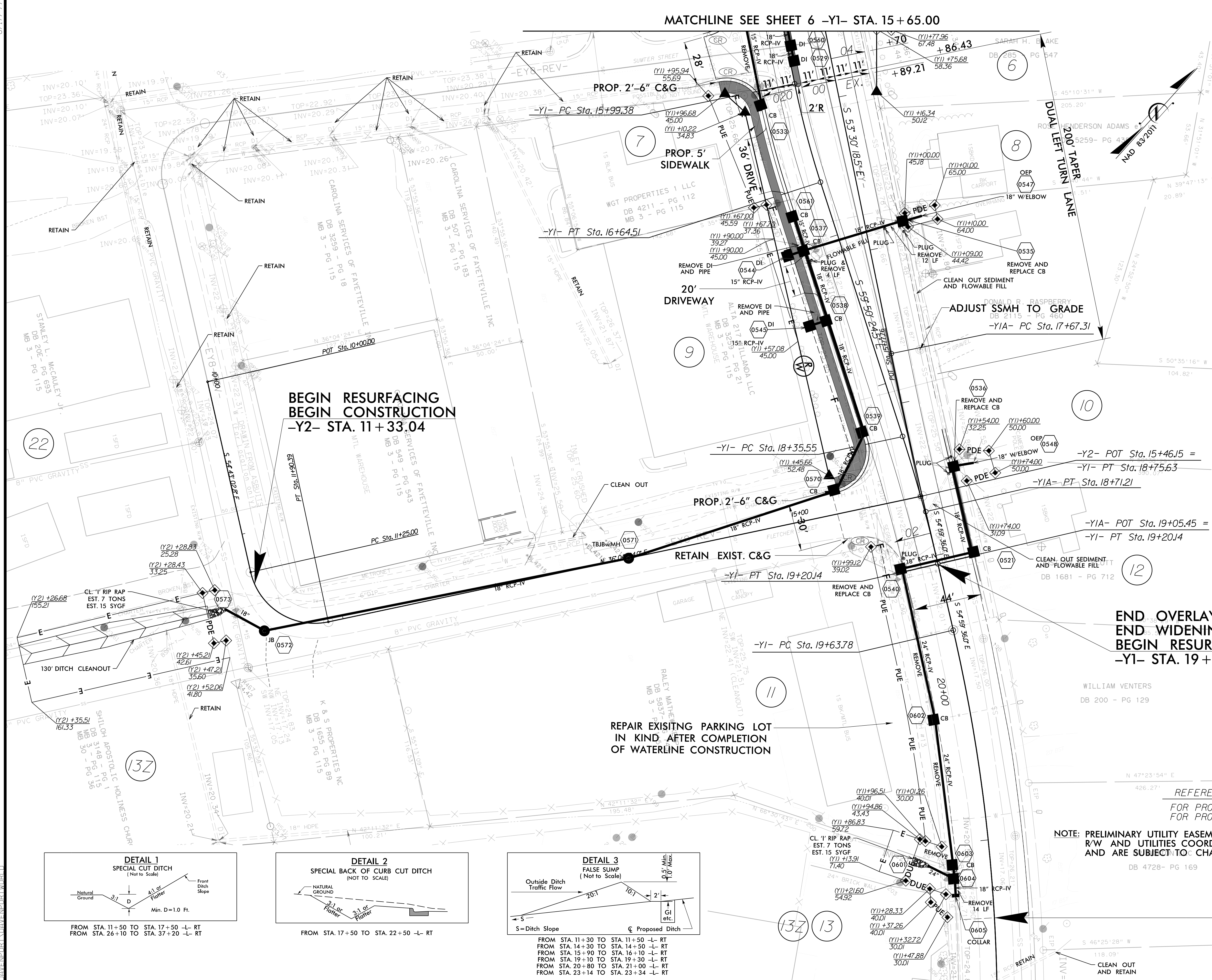


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|-------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| PROJECT REFERENCE NO.                                                               |  | SHEET NO.                                                                                                                                                                                                        |  |
| U-5728                                                                              |  | 6A                                                                                                                                                                                                               |  |
| RW                                                                                  |  | STREET NO.                                                                                                                                                                                                       |  |
| ROADWAY DESIGN<br>ENGINEER                                                          |  | HYDRAULIC DESIGN<br>ENGINEER                                                                                                                                                                                     |  |
|  |  |                                                                                                                               |  |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>            |  |                                                                                                                                                                                                                  |  |
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|                                                                                                                                           |  |                                                                                                                                                                                                                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| PROJECT REFERENCE NO.                                                                                                                     |  | SHEET NO.                                                                                                                                                                                                                                                    |  |
| U-5728                                                                                                                                    |  | 7                                                                                                                                                                                                                                                            |  |
| RW SHEET NO.                                                                                                                              |  |                                                                                                                                                                                                                                                              |  |
| ROADWAY DESIGN<br>ENGINEER                                                                                                                |  | HYDRAULIC DESIGN<br>ENGINEER                                                                                                                                                                                                                                 |  |
|  <p>Seal 052554<br/>E. Bailey, P.E.<br/>07/21/2026</p> |  |  <p>Seal 062392<br/>David K. Venturini, P.E.<br/>07/21/2026</p>                                                                                                           |  |
| <p align="center"><b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b></p>                                            |  |                                                                                                                                                                                                                                                              |  |
|                                                        |  | <p align="center"><b>DAVENPORT</b></p> <p align="center">HOME OFFICE<br/>119 BROOKSTOWN AVENUE, SUITE PH1<br/>WINSTON-SALEM, NC 27101<br/>336.744.1636    <a href="http://www.davenportmo.com">www.davenportmo.com</a><br/>NCEES FIRM LICENSE NO. C-2522</p> |  |

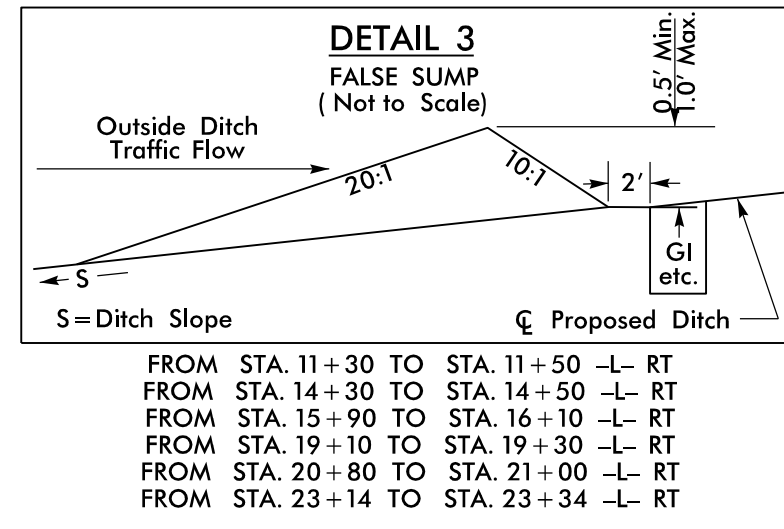
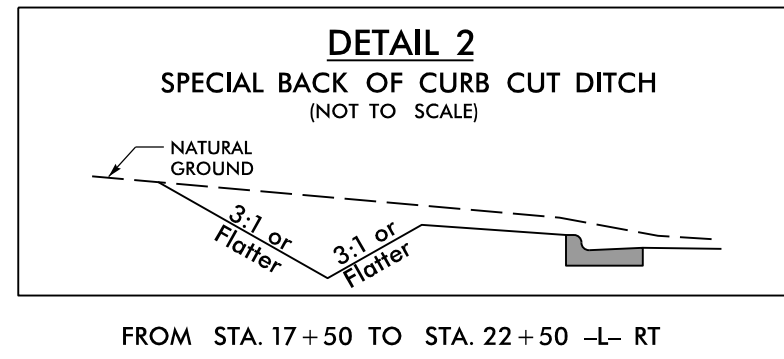
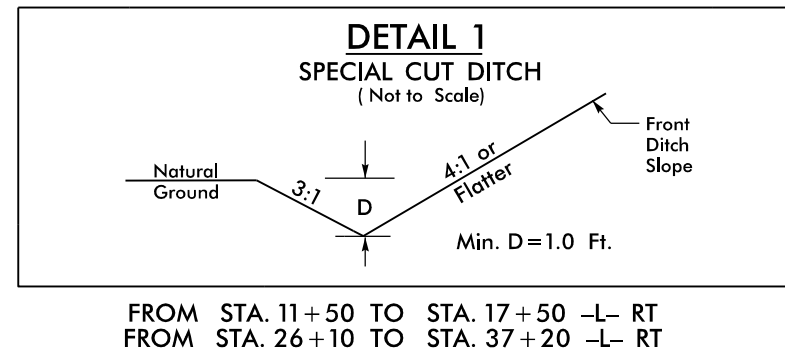


8/17/2026  
30,000' / in.  
9/1/2026 3:09PM NCDDT\_U5728\_US17BUS\DESIGN\U-5728\Roadway\Sheets\U5728\_PSH\_08\_RDY.dgn  
DAVENPORT



|                                                                                                                                                     |  |                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|--|
| PROJECT REFERENCE NO.<br><b>U-5728</b>                                                                                                              |  | SHEET NO.<br><b>8</b>     |  |
| RW SHEET NO.                                                                                                                                        |  |                           |  |
| ROADWAY DESIGN ENGINEER                                                                                                                             |  | HYDRAULIC DESIGN ENGINEER |  |
|                                                                                                                                                     |  |                           |  |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>                                                                            |  |                           |  |
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|                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>-Y1-</b><br>$Pi$ Sta 16+31.98<br>$\Delta$ = 6' 20" 06.0" (LT)<br>$D$ = 9' 43" 39.5"<br>$L$ = 65.12'<br>$T$ = 32.60'<br>$R$ = 589.00'                  |
| $Pi$ Sta 18+77.87<br>$\Delta$ = 4' 50" 48.5" (RT)<br>$D$ = 5' 43" 46.5"<br>$L$ = 84.59'<br>$T$ = 42.32'<br>$R$ = 1,000.00'                               |
| $Pi$ Sta 22+14.74<br>$\Delta$ = 25' 54" 00.0" (RT)<br>$D$ = 5' 15" 00.0"<br>$L$ = 493.33'<br>$T$ = 250.96'<br>$R$ = 1,091.35'                            |
| $SE$ = SEE CROSS-SECTIONS                                                                                                                                |
| <b>-Y1A-</b><br>$Pi$ Sta 18+19.62<br>$\Delta$ = 1' 29" 17.5" (LT)<br>$D$ = 1' 25" 56.6"<br>$L$ = 103.90'<br>$T$ = 51.95'<br>$R$ = 4,000.00'<br>$SE$ = NC |
| <b>-Y2-</b><br>$Pi$ Sta 11+66.42<br>$\Delta$ = 89' 12" 33.1" (LT)<br>$D$ = 136' 25" 06.7"<br>$L$ = 65.39'<br>$T$ = 41.42'<br>$R$ = 42.00'                |

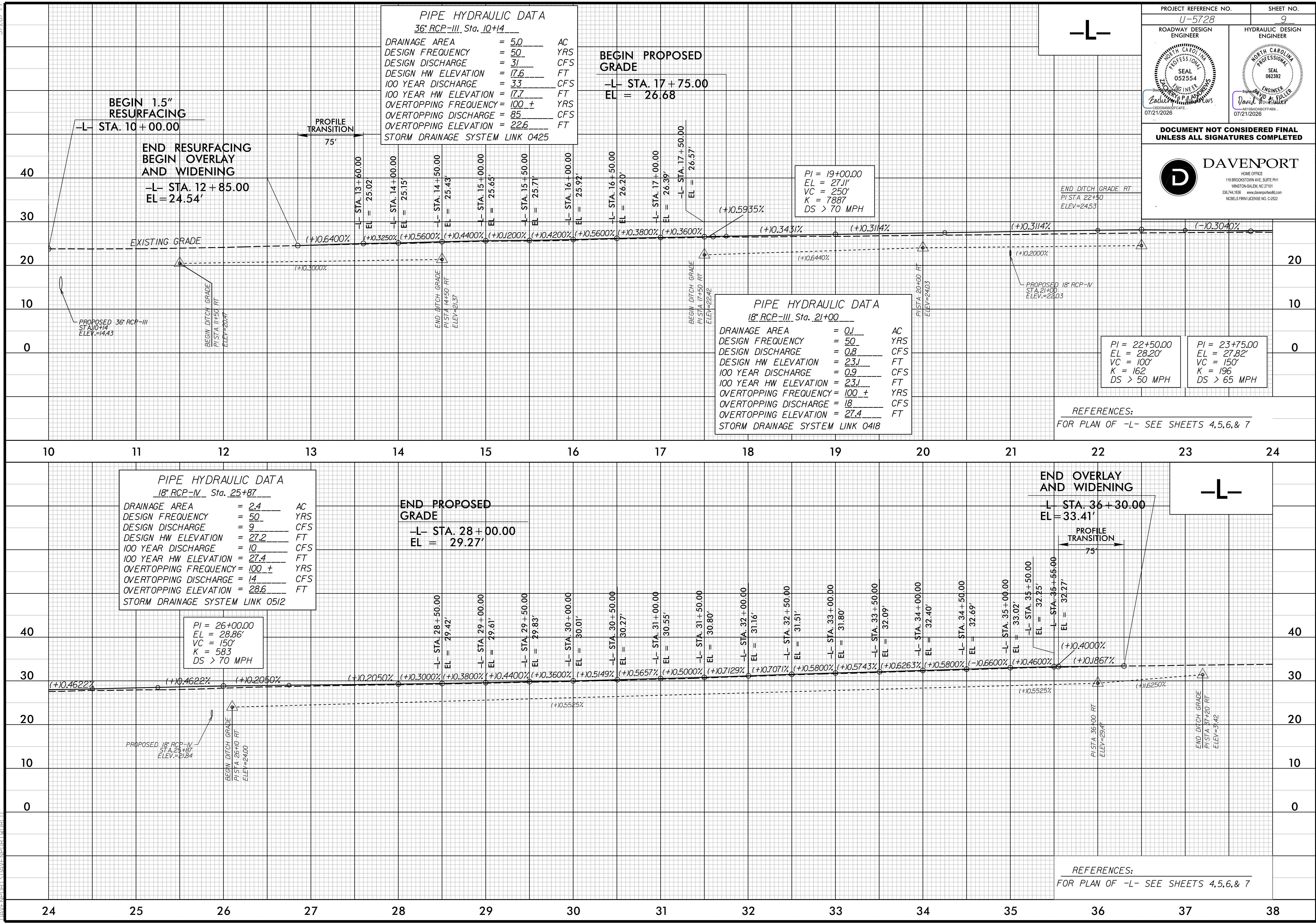


REFERENCES:  
FOR PROFILE OF -Y1- SEE SHEET 10  
FOR PROFILE OF -Y2- SEE SHEET 11

NOTE: PRELIMINARY UTILITY EASEMENTS (PUE) HAVE BEEN SHOWN FOR R/W AND UTILITIES COORDINATION. PUE SHOWN ARE TENTATIVE AND ARE SUBJECT TO CHANGE PRIOR TO FINAL ACCEPTANCE.

**END RESURFACING**  
**-Y1- STA. 21+50.00**

5/28/24  
SCALE: 1"=40'  
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PROJECT REFERENCE NO.  
U-5728

SHEET NO.  
9

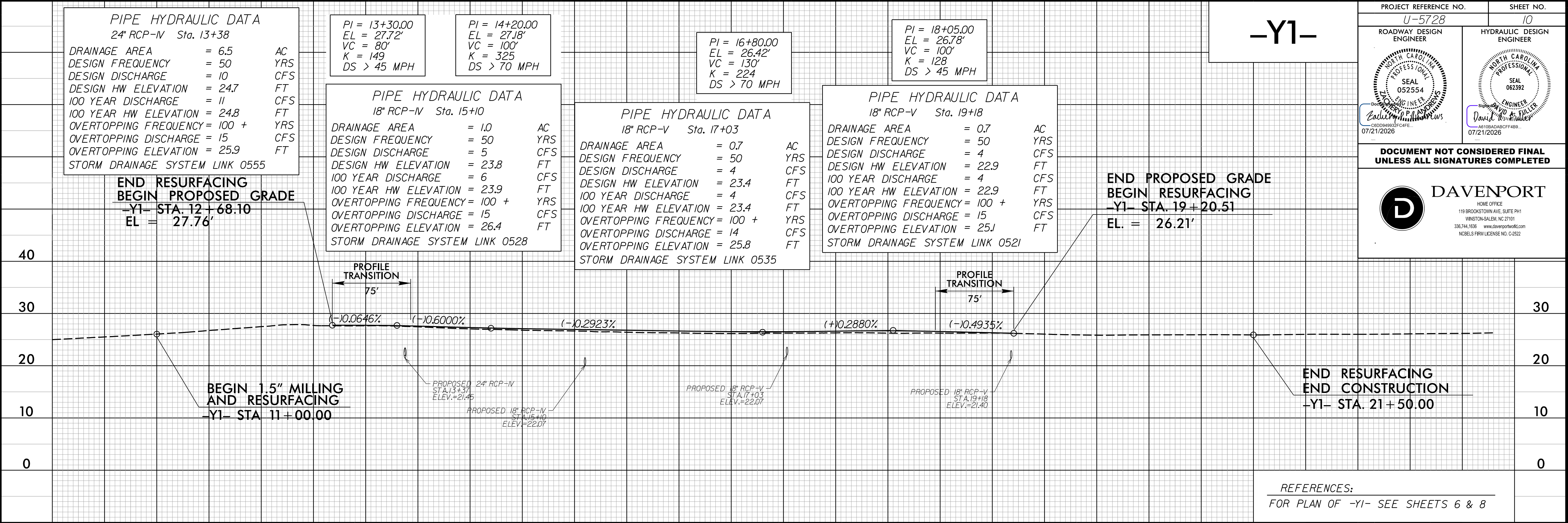
ROADWAY DESIGN ENGINEER

HYDRAULIC DESIGN ENGINEER

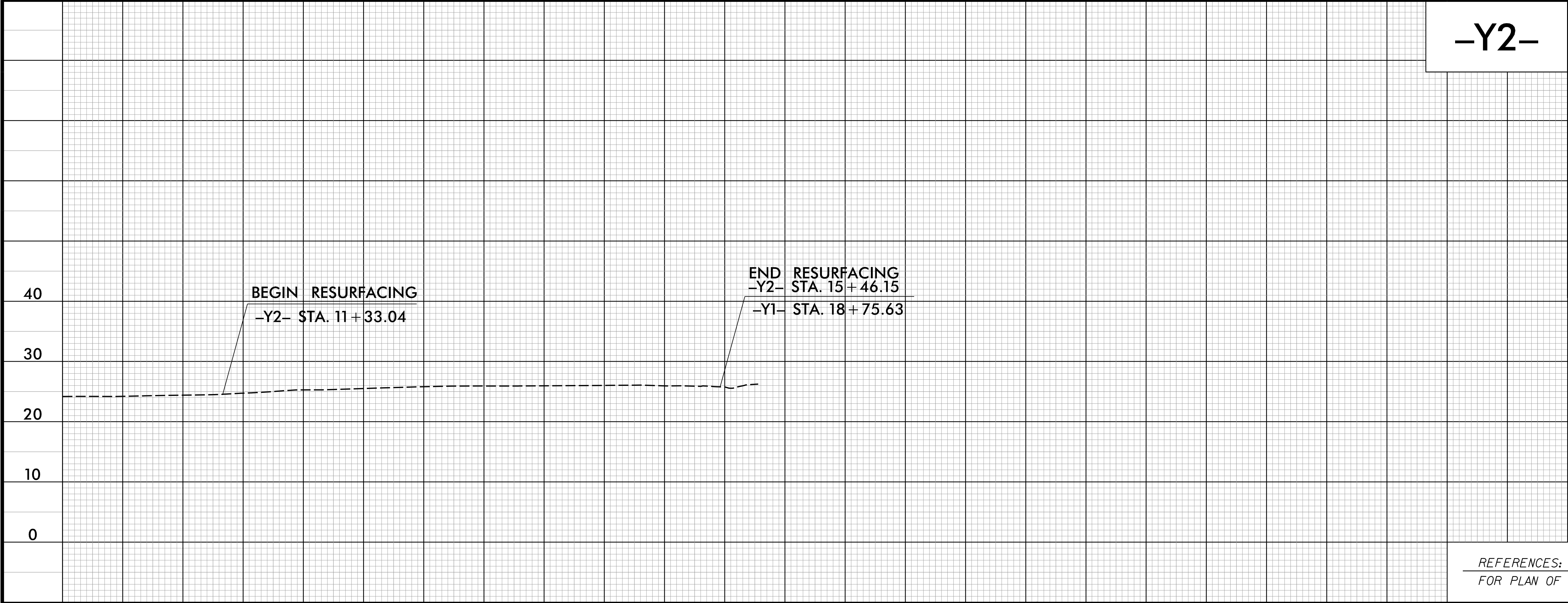
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UNLESS ALL SIGNATURES COMPLETED

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5/28/24



5/28/99



|                                                                                                                                                                                                                                                                          |                                                                                     |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|
| PROJECT REFERENCE NO.<br><i>U-5728</i>                                                                                                                                                                                                                                   |                                                                                     | SHEET NO.<br><i>11</i> |
| ROADWAY DESIGN ENGINEER                                                                                                                                                                                                                                                  | HYDRAULIC DESIGN ENGINEER                                                           |                        |
|                                                                                                                                                                                       |  |                        |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                                                                                                                                                                         |                                                                                     |                        |
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REFERENCES:  
FOR PLAN OF -Y2- SEE SHEET 8

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