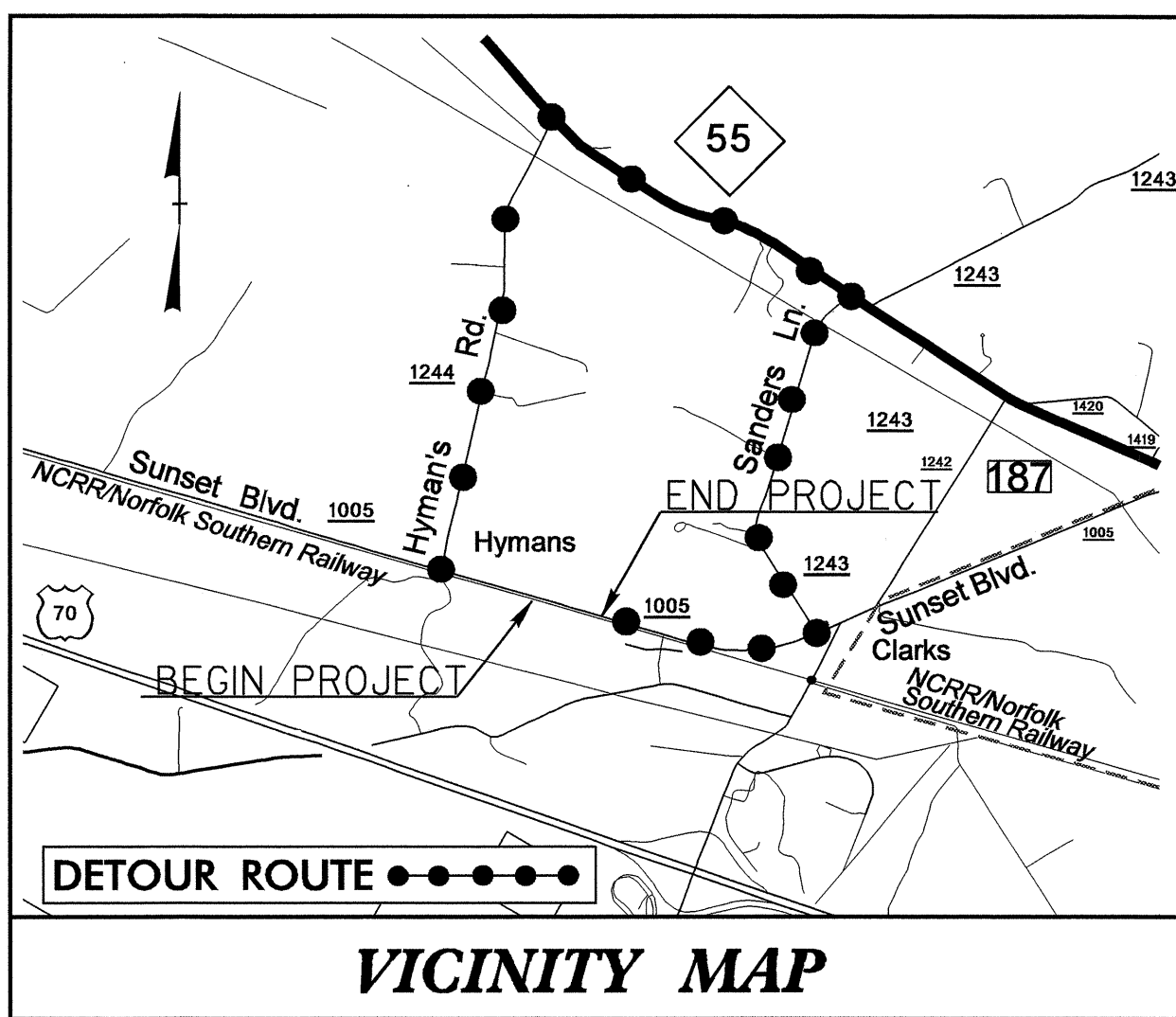


08-OCT-2007 11:36 P:\Roadway\Proj\B4085_rdy_tsh_040813.dgn \$\$\$\$USERNAME\$\$\$\$

TIP PROJECT: B-4085

CONTRACT: C201428

See Sheet 1-A For Index of Sheets

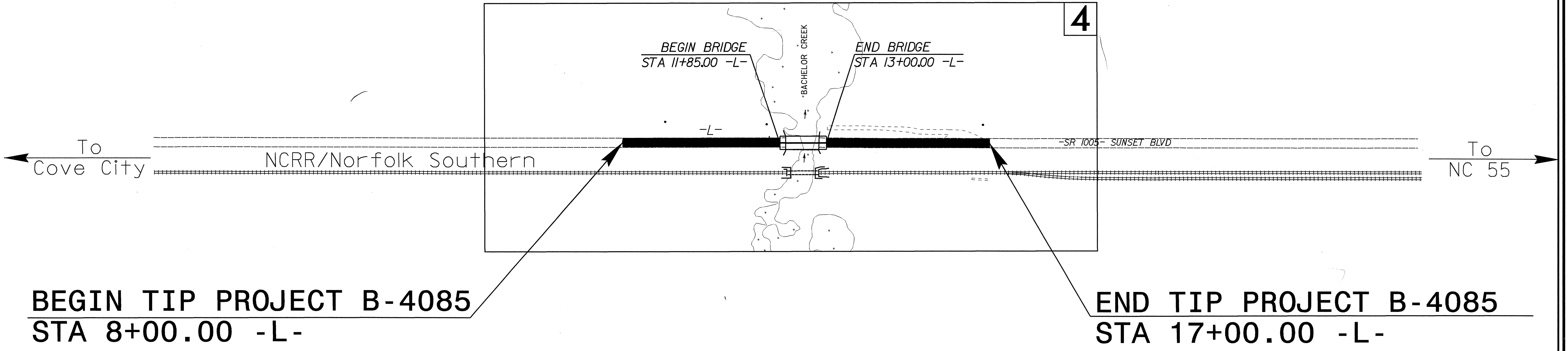
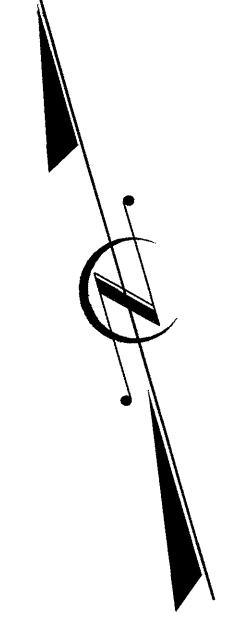
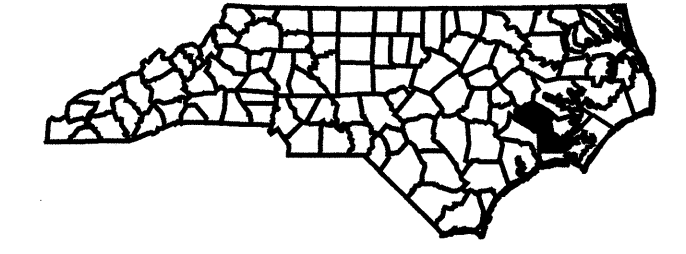


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CRAVEN COUNTY

LOCATION: BRIDGE NO. 212 OVER BACHELOR CREEK ON SR 1005

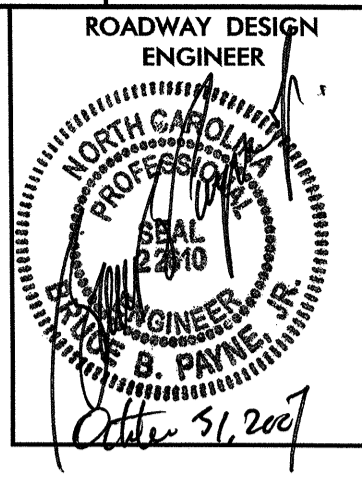
TYPE OF WORK: STRUCTURE, GRADING, DRAINAGE, PAVING

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | B-4085 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 33444.1.1 | BRSTP-1005 (7) | PE | |
| 33444.2.1 | BRSTP-1005(7) | RW/UTL | |
| 33444.3.1 | BRSTP-1005(7) | CONST | |
| | | | |
| | | | |
| | | | |



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

| | | | | | |
|--|---|--|--|---|---|
| <p>GRAPHIC SCALES</p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20 PROFILE (VERTICAL)</p> | <p>DESIGN DATA</p> <p>ADT 2007 = 3622 ADT 2027 = 5709 DHV = 10 % D = 60 % T = 10 % * V = 60 MPH FUNC CLASS = COLLECTOR * TTST 6% DUAL 4%</p> | <p>PROJECT LENGTH</p> <p>Length of Roadway TIP Project B-4085 = 0.148 miles Length of Structure TIP Project B-4085 = 0.022 miles Total Length of TIP Project B-4085 = 0.170 miles</p> | <p>Prepared in the Office of: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr., Raleigh NC, 27610</p> <p>2006 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: MAY 24, 2005</p> <p>LETTING DATE: JANUARY 15, 2008</p> <p>TONY HOUSER, PE PROJECT ENGINEER</p> <p>BRUCE B. PAYNE, PE PROJECT DESIGN ENGINEER</p> | <p>HYDRAULICS ENGINEER</p> <p>SEAL 19721</p> <p>11/15/2007</p> <p>ROADWAY DESIGN ENGINEER</p> <p>SEAL 28314</p> | <p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA</p> <p>STATE HIGHWAY DESIGN ENGINEER</p> |
|--|---|--|--|---|---|



EFF. 07-18-06
REV. 01-02-07

INDEX OF SHEETS

| SHEET NUMBER | SHEET |
|--------------------|--|
| 1 | TITLE SHEET |
| 1-A | INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS |
| 1-B | CONVENTIONAL SYMBOLS |
| 1-C | LOCATION AND SURVEYS |
| 2 | PAVEMENT SCHEDULE, DETAIL SHOWING METHOD OF WEDGING, AND TYPICAL SECTION |
| 2-A | DETAIL OF ANCHORAGE FOR FRAMES |
| 3 | SUMMARY OF QUANTITIES |
| 3-A | SUMMARY OF DRAINAGE QUANTITIES, GUARDRAIL SUMMARY, SUMMARY OF PAVEMENT REMOVAL |
| 3-B | SUMMARY OF EARTHWORK |
| 4 | PLAN SHEET AND PROFILE SHEET |
| TCP-1 THRU TCP-4 | TRAFFIC CONTROL PLANS |
| EC-1 THRU EC-5 | EROSION CONTROL PLANS |
| RF-1 | REFORESTATION DETAIL SHEET |
| SIGN-1 THRU SIGN-4 | SIGNING PLANS |
| UO-1 THRU UO-2 | UTILITY BY OTHERS |
| X-0 | CROSS SECTION SUMMARY |
| X-1 THRU X-6 | CROSS SECTIONS |
| S-1 THRU S-23 | STRUCTURE PLANS |

GENERAL NOTES:

2006 SPECIFICATIONS
EFFECTIVE: 07-18-06
REVISED: 07-18-06

GRADING AND SURFACING OR RESURFACING AND WIDENING:
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. 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 BASED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

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

UNDERDRAINS:
UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

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

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

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

END BENTS:
THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE EMBARO.
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

2006 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

| STD. NO. | TITLE |
|--|---|
| DIVISION 2 - EARTHWORK | |
| 200.03 | Method of Clearing - Method III |
| 225.02 | Guide for Grading Subgrade - Secondary and Local |
| DIVISION 3 - PIPE CULVERTS | |
| 300.01 | Method of Pipe Installation - Method 'A' |
| DIVISION 4 - MAJOR STRUCTURES | |
| 422.10 | Reinforced Bridge Approach Fills |
| DIVISION 6 - ASPHALT BASES AND PAVEMENTS | |
| 654.01 | Pavement Repairs |
| DIVISION 8 - INCIDENTALS | |
| 815.03 | Pipe Underdrain and Blind Drain |
| 816.04 | Markers for Drainage Structure and Concrete Pad |
| 840.00 | Concrete Base Pad for Drainage Structures |
| 840.29 | Frames and Narrow Slot Flat Grates |
| 840.35 | Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates |
| 840.46 | Traffic Bearing Precast Drainage Structure |
| 846.01 | Concrete Curb, Gutter and Curb & Gutter |
| 846.04 | Drop Inlet Installation in Shoulder Berm Gutter |
| 862.01 | Guardrail Placement |
| 862.02 | Guardrail Installation |
| 862.03 | Structure Anchor Units |
| 862.04 | Anchoring End of Guardrail - B-77 and B-83 Anchor Units |
| 876.02 | Guide for Rip Rap at Pipe Outlets |

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

| | |
|-------------------------------------|---------|
| State Line | ----- |
| County Line | ----- |
| Township Line | ----- |
| City Line | ----- |
| Reservation Line | ----- |
| Property Line | ----- |
| Existing Iron Pin | ○ EP |
| Property Corner | ----- |
| Property Monument | □ EGM |
| Parcel/Sequence Number | ⑫③ |
| Existing Fence Line | -x-x-x- |
| Proposed Woven Wire Fence | ○ |
| Proposed Chain Link Fence | □ |
| Proposed Barbed Wire Fence | ◇ |
| Existing Wetland Boundary | --- WLB |
| Proposed Wetland Boundary | --- WLB |
| Existing Endangered Animal Boundary | --- EAB |
| Existing Endangered Plant Boundary | --- EPB |

BUILDINGS AND OTHER CULTURE:

| | |
|-------------------------------|-----|
| Gas Pump Vent or U/G Tank Cap | ○ |
| Sign | ○ S |
| Well | ○ W |
| Small Mine | ✕ |
| Foundation | □ |
| Area Outline | □ |
| Cemetery | □ † |
| Building | □ |
| School | □ |
| Church | □ |
| Dam | □ |

HYDROLOGY:

| | |
|------------------------------------|----------|
| Stream or Body of Water | ----- |
| Hydro, Pool or Reservoir | □ |
| Jurisdictional Stream | --- JS |
| Buffer Zone 1 | --- BZ 1 |
| Buffer Zone 2 | --- BZ 2 |
| Flow Arrow | ← |
| Disappearing Stream | ----- |
| Spring | ○ |
| Swamp Marsh | ▽ |
| Proposed Lateral, Tail, Head Ditch | ----- |
| False Sump | ▽ |

RAILROADS:

| | |
|--------------------|---------------|
| Standard Gauge | ----- |
| RR Signal Milepost | ○ MILEPOST 35 |
| Switch | □ SWITCH |
| RR Abandoned | ----- |
| RR Dismantled | ----- |

RIGHT OF WAY:

| | |
|--|---------|
| Baseline Control Point | ◆ |
| Existing Right of Way Marker | △ |
| Existing Right of Way Line | ----- |
| Proposed Right of Way Line | ○ R/W |
| Proposed Right of Way Line with Iron Pin and Cap Marker | ○ R/W ▲ |
| Proposed Right of Way Line with Concrete or Granite Marker | ○ R/W ▲ |
| Existing Control of Access | ○ CA |
| Proposed Control of Access | ○ CA |
| Existing Easement Line | --- E |
| Proposed Temporary Construction Easement | --- E |
| Proposed Temporary Drainage Easement | --- TDE |
| Proposed Permanent Drainage Easement | --- PDE |
| Proposed Permanent Utility Easement | --- PUE |

ROADS AND RELATED FEATURES:

| | |
|--------------------------------------|--------|
| Existing Edge of Pavement | ----- |
| Existing Curb | ----- |
| Proposed Slope Stakes Cut | --- C |
| Proposed Slope Stakes Fill | --- F |
| Proposed Wheel Chair Ramp | ○ WCR |
| Curb Cut for Future Wheel Chair Ramp | ○ CCFR |
| Existing Metal Guardrail | ----- |
| Proposed Guardrail | ----- |
| Existing Cable Guiderail | ----- |
| Proposed Cable Guiderail | ----- |
| Equality Symbol | ⊕ |
| Pavement Removal | □ |

VEGETATION:

| | |
|--------------|------------|
| Single Tree | ○ |
| Single Shrub | ○ |
| Hedge | ----- |
| Woods Line | ----- |
| Orchard | ○ |
| Vineyard | □ Vineyard |

EXISTING STRUCTURES:

| | |
|--|-----------------|
| MAJOR: | |
| Bridge, Tunnel or Box Culvert | ----- |
| Bridge Wing Wall, Head Wall and End Wall | --- CONC WW --- |
| MINOR: | |
| Head and End Wall | --- CONC HW --- |
| Pipe Culvert | ----- |
| Footbridge | ----- |
| Drainage Box: Catch Basin, DI or JB | □ CB |
| Paved Ditch Gutter | ----- |
| Storm Sewer Manhole | ○ S |
| Storm Sewer | ----- |

UTILITIES:

| | |
|-------------------------------------|-----------|
| POWER: | |
| Existing Power Pole | ● |
| Proposed Power Pole | ○ |
| Existing Joint Use Pole | ● |
| Proposed Joint Use Pole | ○ |
| Power Manhole | ○ P |
| Power Line Tower | □ |
| Power Transformer | □ |
| U/G Power Cable Hand Hole | □ PH |
| H-Frame Pole | ● |
| Recorded U/G Power Line | --- P --- |
| Designated U/G Power Line (S.U.E.*) | --- P --- |

TELEPHONE:

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

WATER:

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

TV:

| | |
|--|---------------|
| TV Satellite Dish | ○ |
| TV Pedestal | □ |
| TV Tower | ⊗ |
| U/G TV Cable Hand Hole | □ PH |
| Recorded U/G TV Cable | --- TV --- |
| Designated U/G TV Cable (S.U.E.*) | --- TV --- |
| Recorded U/G Fiber Optic Cable | --- TV FO --- |
| Designated U/G Fiber Optic Cable (S.U.E.*) | --- TV FO --- |

GAS:

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

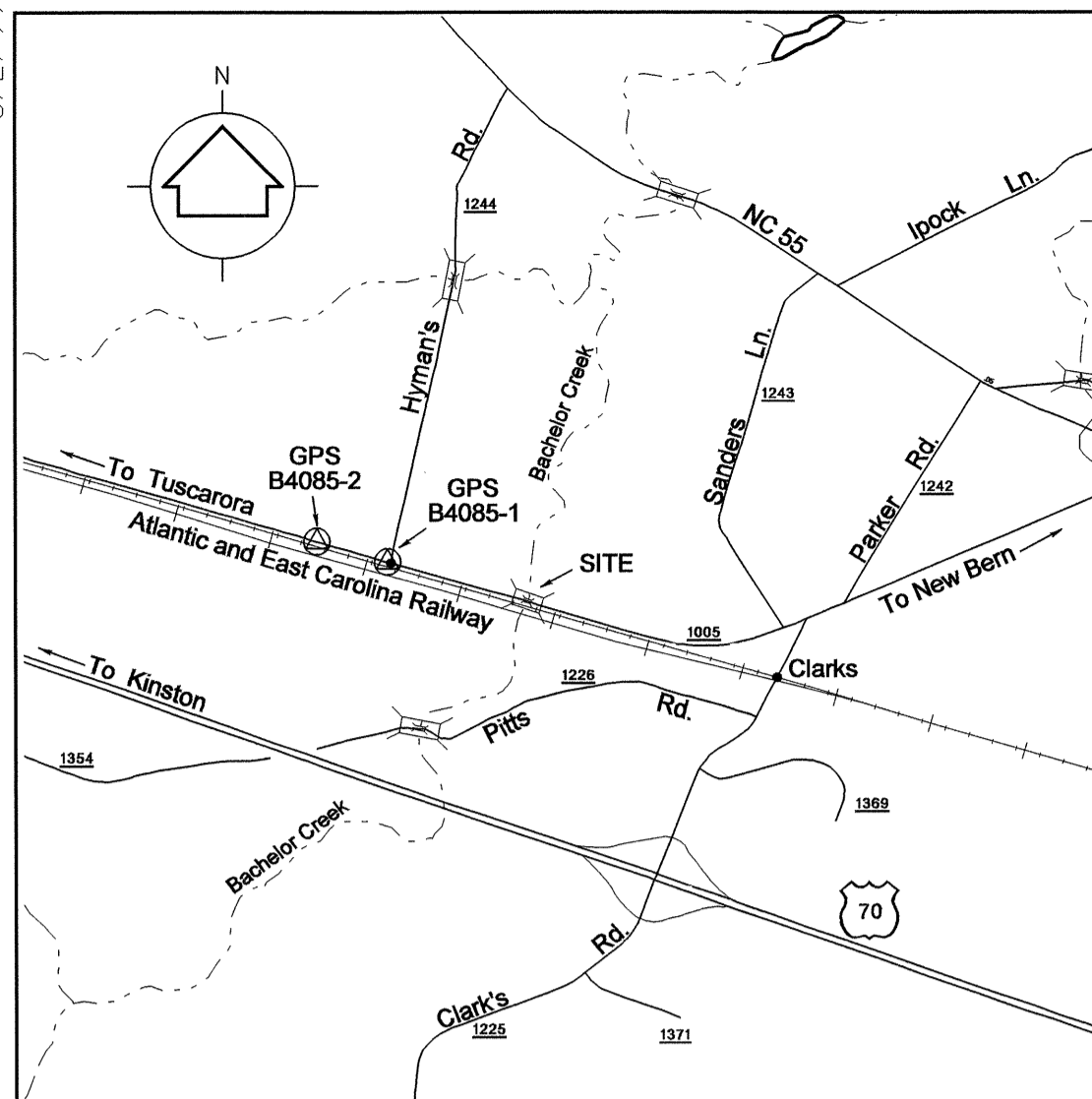
SANITARY SEWER:

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

MISCELLANEOUS:

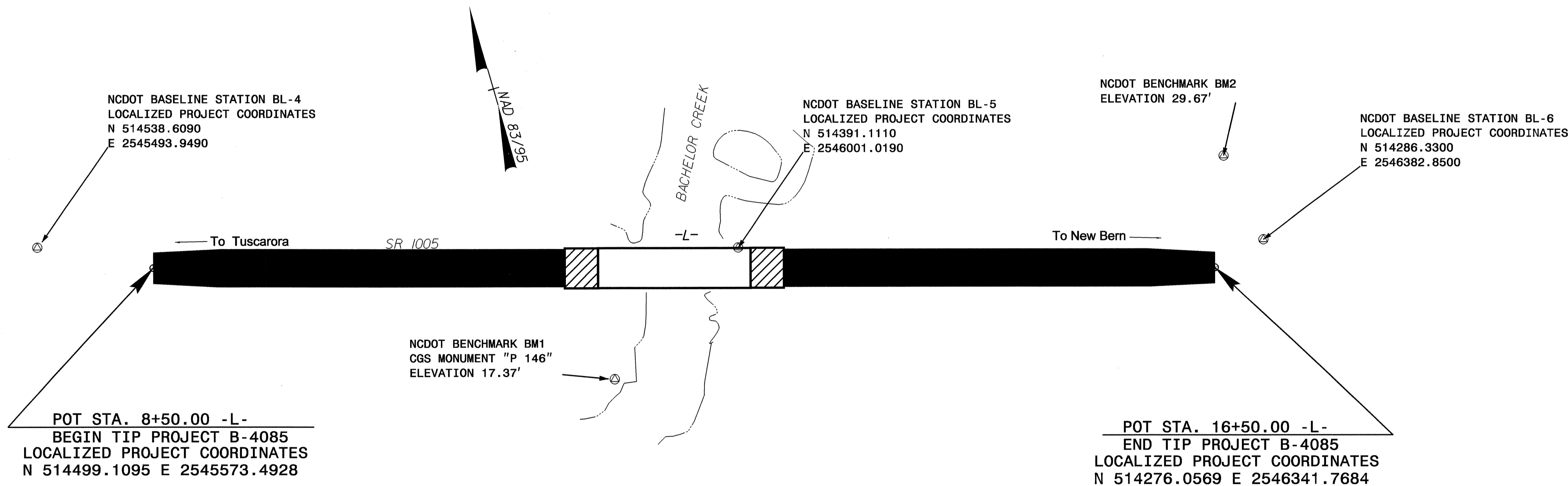
| | |
|--|-------------|
| Utility Pole | ● |
| Utility Pole with Base | □ |
| Utility Located Object | ○ |
| Utility Traffic Signal Box | □ |
| Utility Unknown U/G Line | --- UNL --- |
| U/G Tank; Water, Gas, Oil | □ |
| A/G Tank; Water, Gas, Oil | □ |
| U/G Test Hole (S.U.E.*) | ○ |
| Abandoned According to Utility Records | AATUR |
| End of Information | E.O.I. |

SURVEY CONTROL SHEET B-4085



| CONTROL DATA | | | | | | |
|--------------|-------|-------------|--------------|-----------|------------------------|----------|
| BL POINT | DESC. | NORTH | EAST | ELEVATION | L STATION | OFFSET |
| BL4 | BL-4 | 514538.6090 | 2545493.9490 | 14.17 | OUTSIDE PROJECT LIMITS | |
| BL5 | BL-5 | 514391.1110 | 2546001.0190 | 14.51 | 12+90.68 | 15.49 LT |
| BL6 | BL-6 | 514286.3300 | 2546382.8500 | 21.25 | OUTSIDE PROJECT LIMITS | |

| BENCHMARK DATA | |
|---------------------------|-------------------|
| BM1 | ELEVATION = 17.37 |
| N 514321 | E 2545884 |
| L STATION 11+98.84 | RIGHT |
| CGS MONUMENT "P 146" | |
| BM2 | ELEVATION = 29.67 |
| N 514355 | E 2546372 |
| L STATION 16+50 | |
| N 20° 45' 08.0" | E DIST 84.43 |
| R/R SPIKE SET IN 30' PINE | |



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4085-1"
 WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF
 NORTHING: 5150997.18111 EASTING: 2543581.146111
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
 (GROUND TO GRID) IS: 0.99987864
 THE N.C. LAMBERT GRID BEARING AND
 LOCALIZED HORIZONTAL GROUND DISTANCE FROM
 "B4085-1" TO -L- STATION 8+50.00 IS
 S 73°13'27.0" E 2080.907511
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

NOTES:

THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:

[HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project)

File: b4085_ls_control_040923.txt

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

⊙ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.

PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.

NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING USER SERVICE (OPUS)

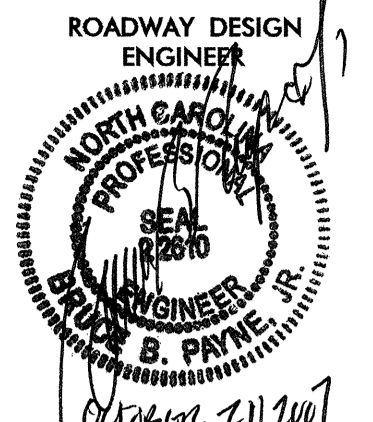
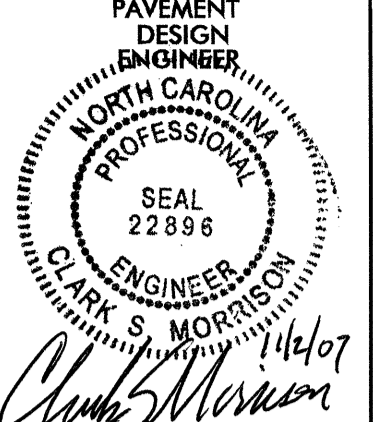
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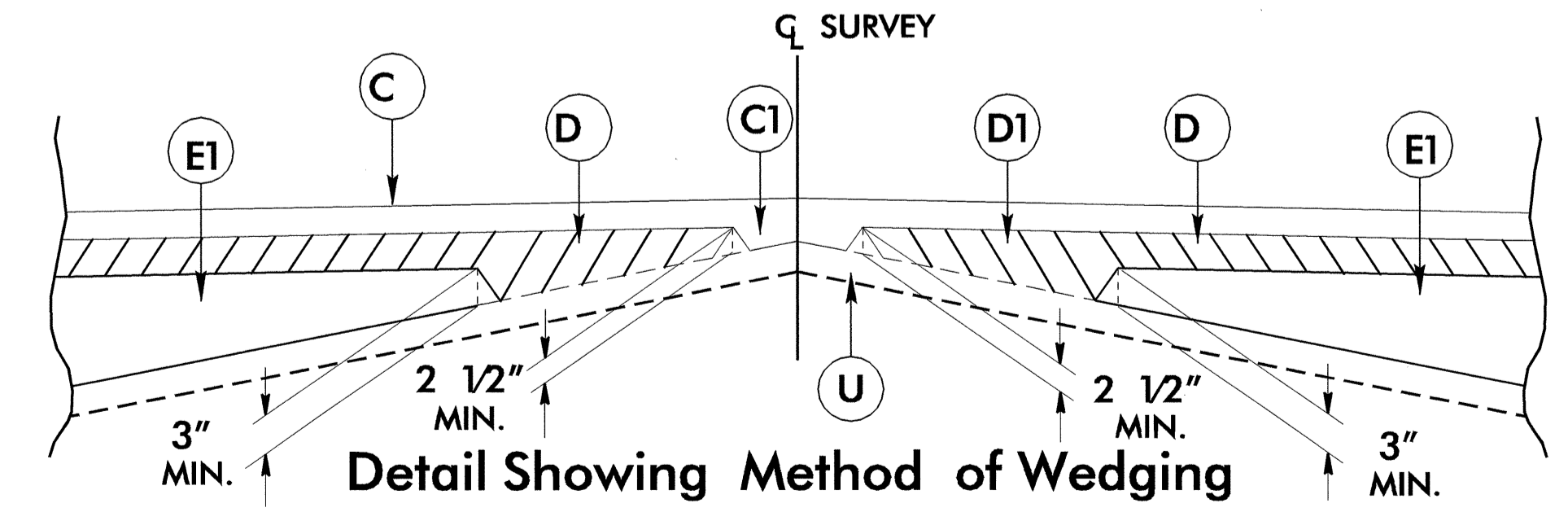
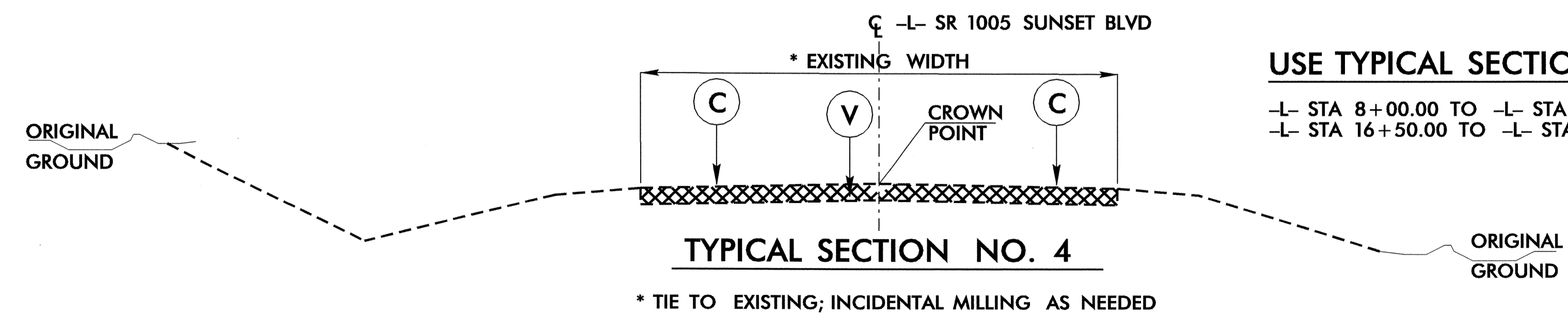
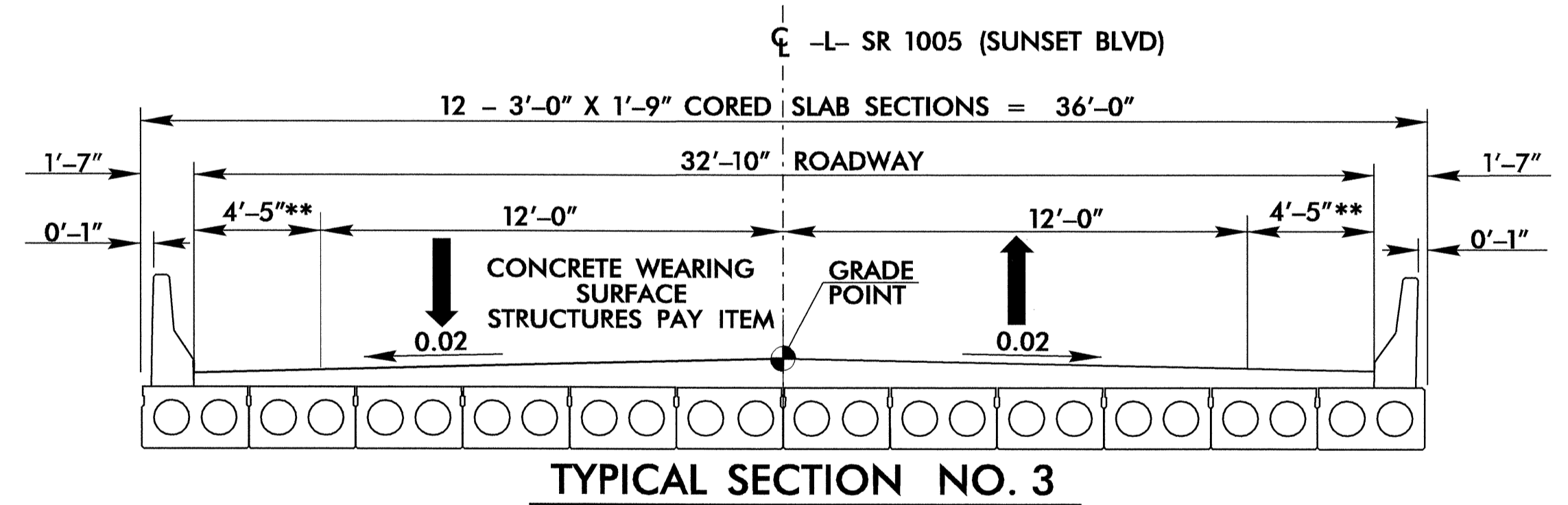
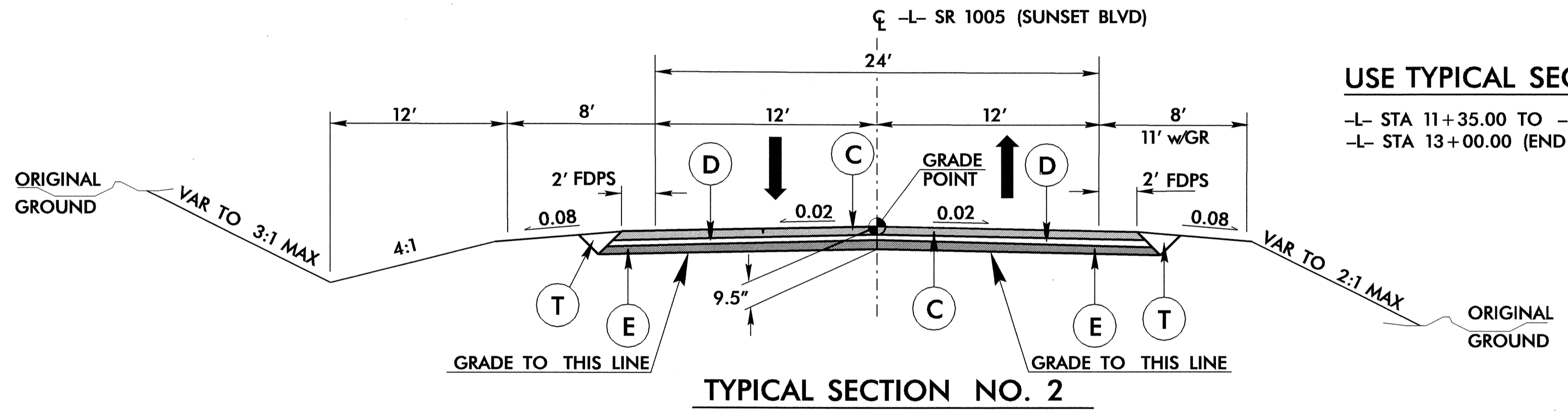
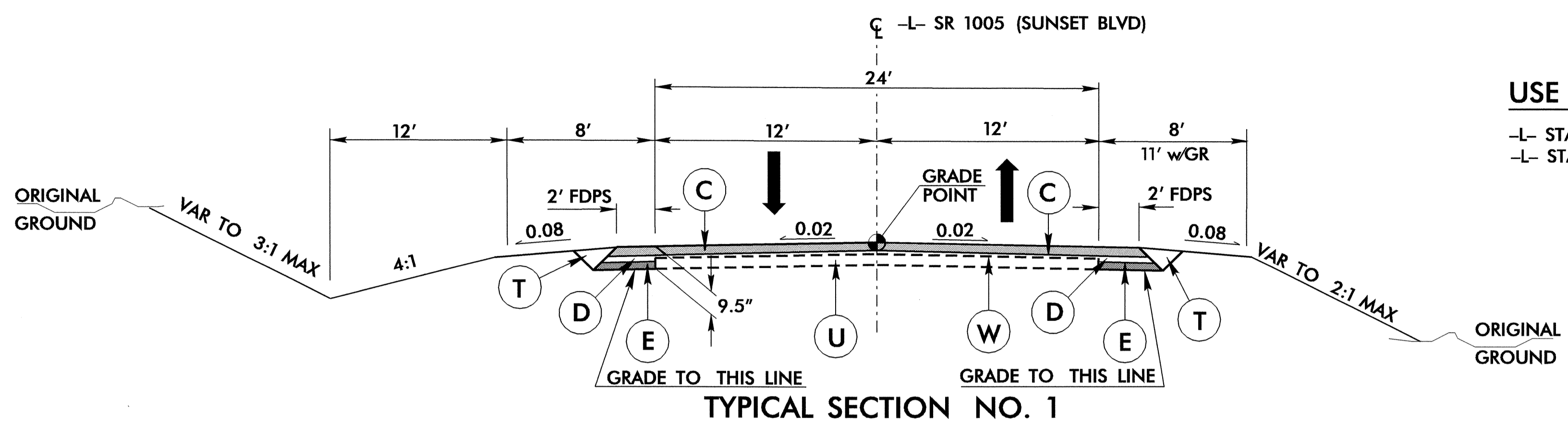
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5/28/99

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| | |
|--|---|
| PROJECT REFERENCE NO. B-4085 | SHEET NO. 2 |
| ROADWAY DESIGN ENGINEER  CLARK S. MORRISSON October 31, 2007 | PAVEMENT DESIGN ENGINEER  CLARK S. MORRISSON October 31, 2007 |



| PAVEMENT SCHEDULE | |
|-------------------|--|
| C | PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD., IN EACH OF 2 LAYERS |
| C1 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH. |
| D | PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD. |
| D1 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH. |
| E | PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| E1 | PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH. |
| T | EARTH MATERIAL. |
| U | EXISTING PAVEMENT. |
| V | INCIDENTAL MILLING |
| W | VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL) |

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

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

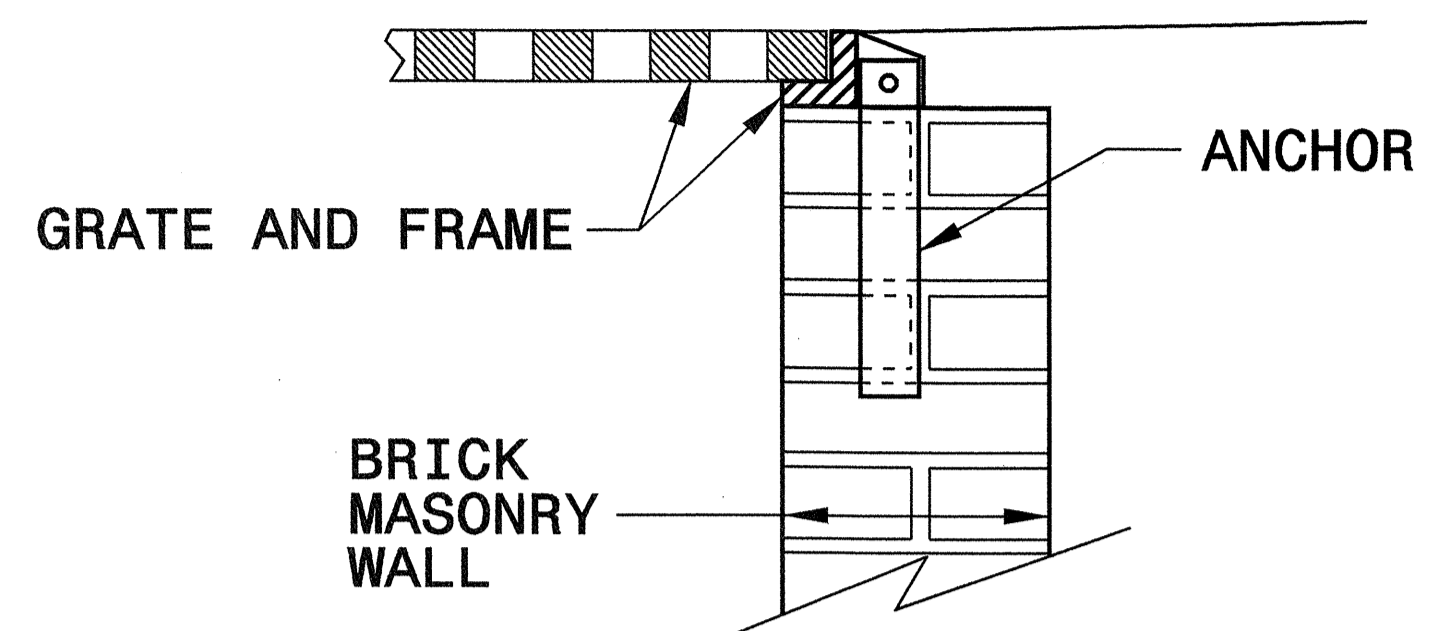
ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

SHEET 1 OF 1
840D25

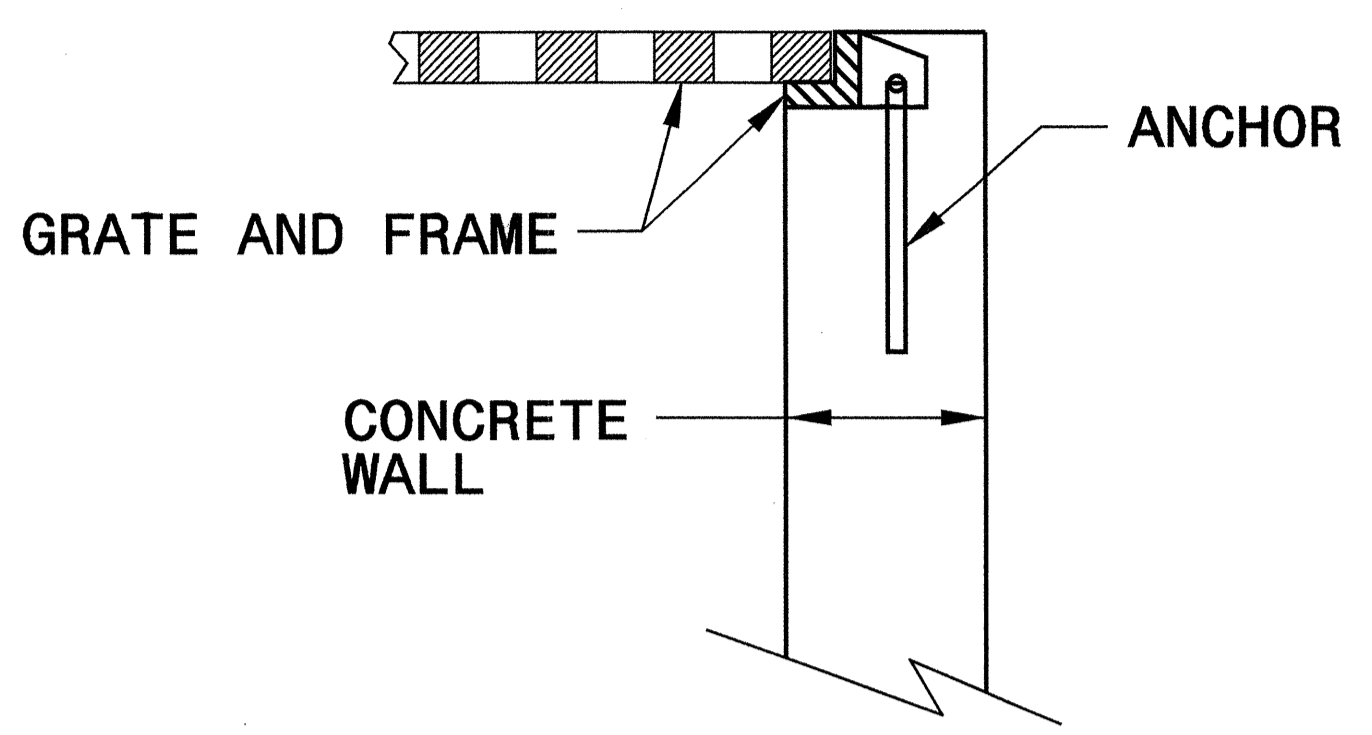
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

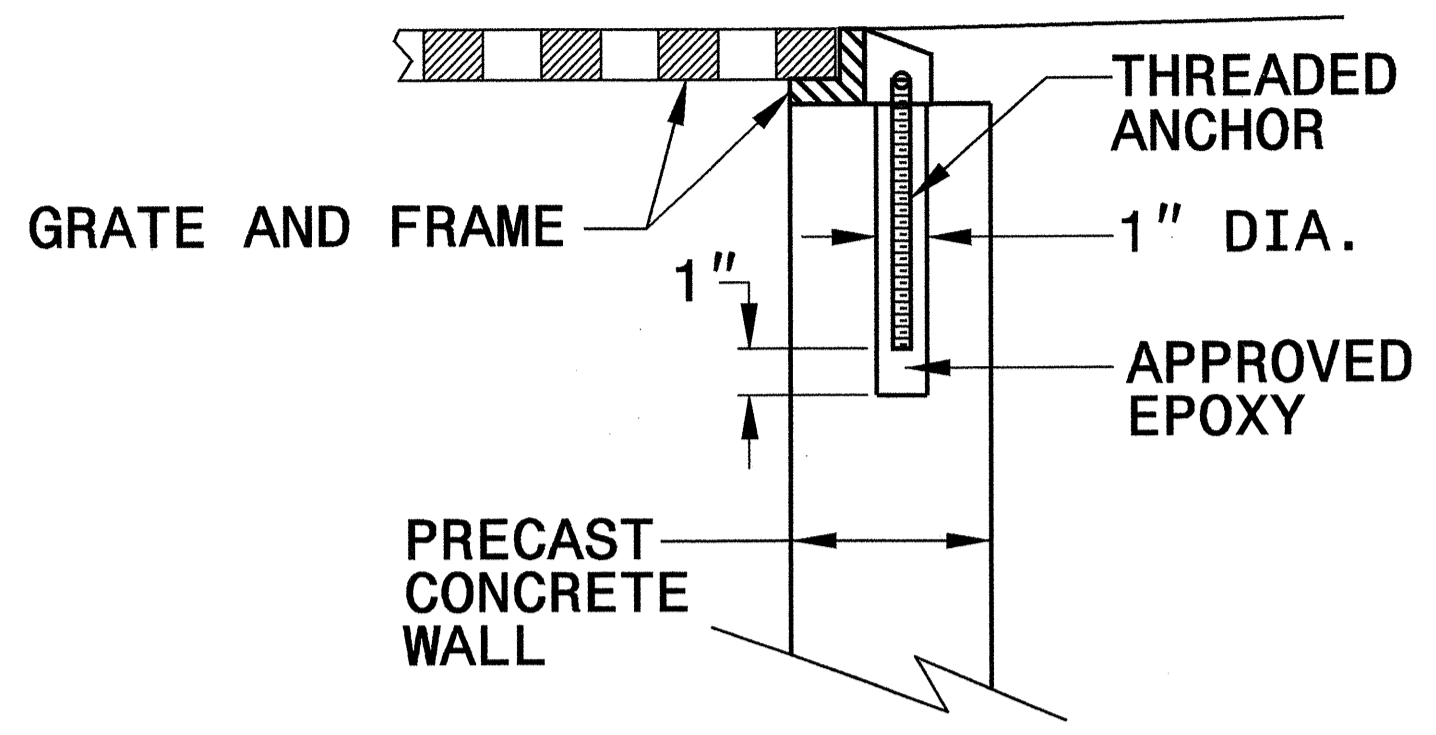
SHEET 1 OF 1
840D25



BRICK MASONRY CONSTRUCTION



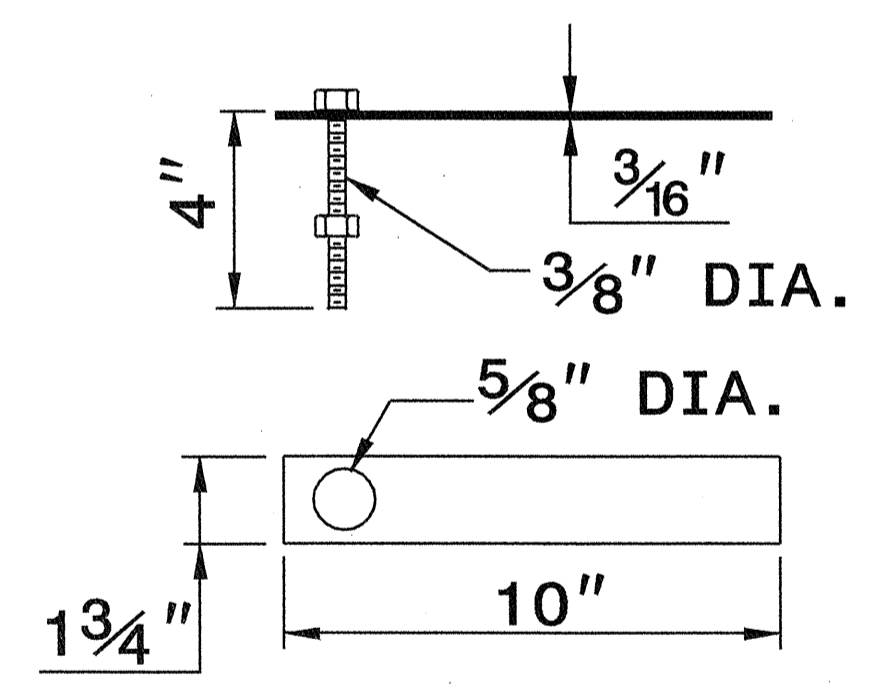
CONCRETE CONSTRUCTION



PRECAST CONCRETE CONSTRUCTION

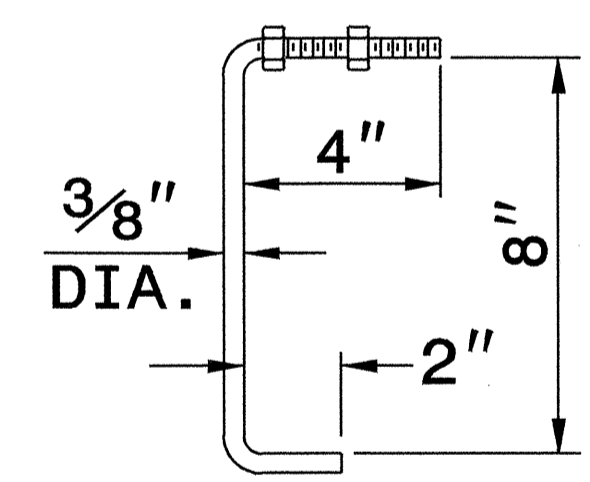
DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



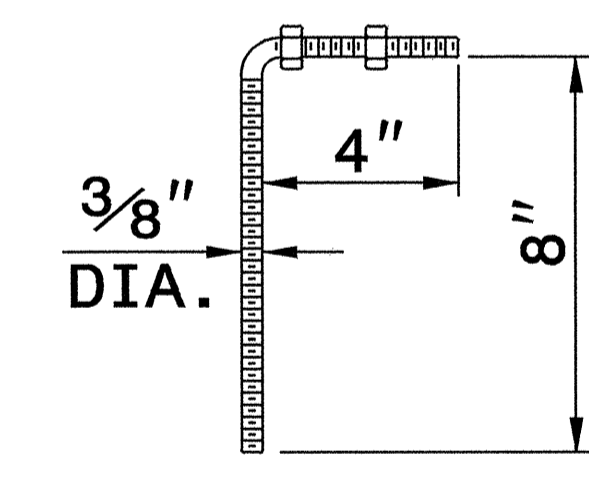
MASONRY ANCHOR

3/8" DIA. BOLT WITH PLATE



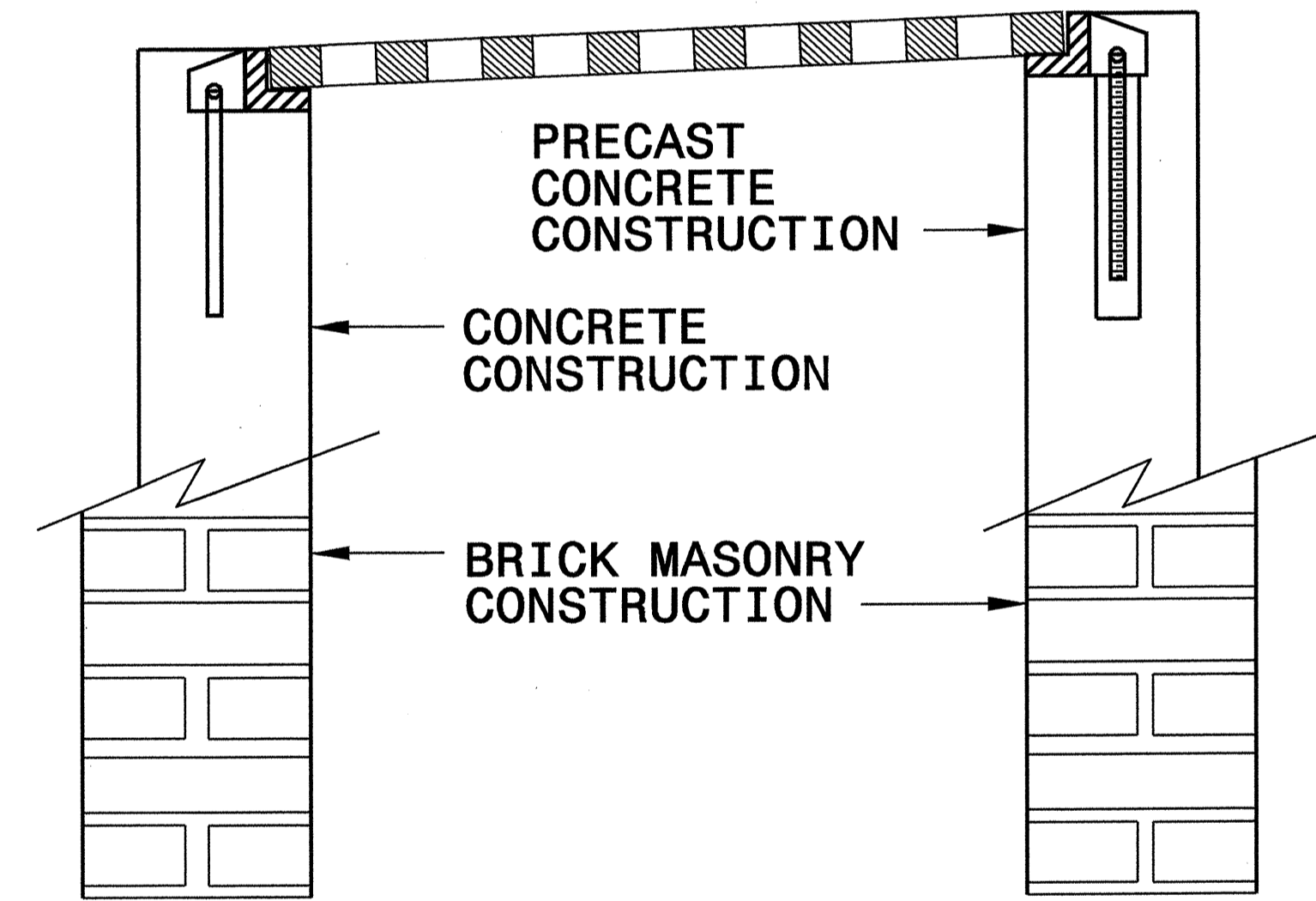
CONCRETE ANCHOR

3/8" DIA. BENT BAR



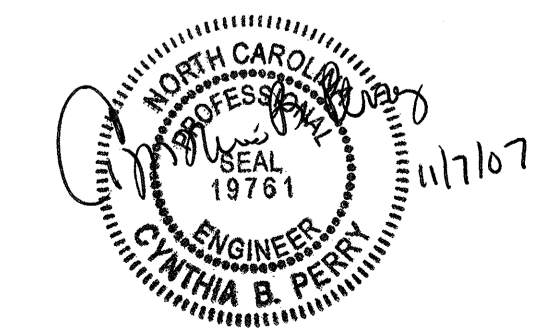
PRECAST CONCRETE ANCHOR

3/8" DIA. BENT BAR



FRAME AND GRATE INSTALLATION FOR NORMAL CROWN AND SUPERELEVATED SECTIONS

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PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN
Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: 2006 STD 840.25 DATE: 07/18/06
MODIFIED BY: E.E. WARD DATE: 9/25/06
CHECKED BY: DATE: _____
FILE SPEC.: _____

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201428

| ItemNumber | Sec # | Quantity | Unit | Description | ItemNumber | Sec # | Quantity | Unit | Description | ItemNumber | Sec # | Quantity | Unit | Description |
|-------------|-------|----------|------|--|-------------|-------|----------|------|---|-------------|-------|----------|------|--|
| 000100000-N | 800 | Lump Sum | | MOBILIZATION | 205500000-E | 815 | 3 | EA | 6" SUBDRAIN PIPE WYES, TEES, & ELBOWS | 600000000-E | 1605 | 750 | LF | TEMPORARY SILT FENCE |
| 000040000-N | 801 | Lump Sum | | CONSTRUCTION SURVEYING | 206600000-N | 815 | 1 | EA | CONCRETE PAD FOR SUBDRAIN PIPE OUTLET | 600600000-E | 1610 | 50 | TON | STONE FOR EROSION CONTROL, CLASS A |
| 002900000-N | SP | Lump Sum | | REINFORCED BRIDGE APPROACH FILL, STATION ***** (12+42.500) | 207700000-E | 815 | 6 | LF | 6" OUTLET PIPE (SUBDRAINS) | 600900000-E | 1610 | 80 | TON | STONE FOR EROSION CONTROL, CLASS B |
| 005000000-E | 226 | 1 | ACR | SUPPLEMENTARY CLEARING & GRUB-BING | 228600000-N | 840 | 5 | EA | MASONRY DRAINAGE STRUCTURES | 601200000-E | 1610 | 60 | TON | SEDIMENT CONTROL STONE |
| 005700000-E | 226 | 200 | CY | UNDERCUT EXCAVATION | 236700000-N | 840 | 5 | EA | FRAME WITH TWO GRATES, STD 840.29 | 601500000-E | 1615 | 1.5 | ACR | TEMPORARY MULCHING |
| 006300000-N | SP | Lump Sum | | GRADING | 255600000-E | 846 | 775 | LF | SHOULDER BERM GUTTER | 601800000-E | 1620 | 50 | LB | SEED FOR TEMPORARY SEEDING |
| 010600000-E | 230 | 2,100 | CY | BORROW EXCAVATION | 303000000-E | 862 | 800 | LF | STEEL BM GUARDRAIL | 602100000-E | 1620 | 0.25 | TON | FERTILIZER FOR TEMPORARY SEEDING |
| 019600000-E | 270 | 1,500 | SY | FABRIC FOR SOIL STABILIZATION | 315000000-N | 862 | 5 | EA | ADDITIONAL GUARDRAIL POSTS | 602400000-E | 1622 | 120 | LF | TEMPORARY SLOPE DRAINS |
| 023400000-E | SP | 1,500 | CY | GENERIC GRADING ITEM SELECT GRANULAR MATERIAL | 327000000-N | SP | 4 | EA | GUARDRAIL ANCHOR UNITS, TYPE 350 | 602700000-N | 1622 | 6 | EA | INLET PROTECTION AT TEMPORARY SLOPE DRAINS |
| 031800000-E | 300 | 17 | TON | FOUNDATION CONDITIONING MATERIAL, MINOR STRS | 331700000-N | 862 | 4 | EA | GUARDRAIL ANCHOR UNITS, TYPE B-77 | 602900000-E | SP | 500 | LF | SAFETY FENCE |
| 036600000-E | 310 | 96 | LF | 15" RC PIPE CULVERTS, CLASS III | 364900000-E | 876 | 4 | TON | RIP RAP, CLASS B | 603000000-E | 1630 | 175 | CY | SILT EXCAVATION |
| 054600000-E | 310 | 64 | LF | *** CAA PIPE CULVERTS, ***** THICK (15", 0.060") | 365600000-E | 876 | 160 | SY | FILTER FABRIC FOR DRAINAGE | 603600000-E | 1631 | 350 | SY | MATting FOR EROSION CONTROL |
| 056400000-E | 310 | 4 | EA | *** CAA PIPE ELBOWS, ***** THICK (15", 0.060") | 402500000-E | 901 | 13.5 | SF | CONTRACTOR FURNISHED, TYPE *** SIGN (D) | 604200000-E | 1632 | 160 | LF | 1/4" HARDWARE CLOTH |
| 122000000-E | 545 | 100 | TON | INCIDENTAL STONE BASE | 402500000-E | 901 | 5.56 | SF | CONTRACTOR FURNISHED, TYPE *** SIGN (E) | 604800000-E | SP | 100 | SY | FLOATING TURBIDITY CURTAIN |
| 133000000-E | 607 | 300 | SY | INCIDENTAL MILLING | 408200000-E | 903 | 62 | LF | SUPPORTS, WOOD | 607103000-E | SP | 45 | LF | COIR FIBER BAFFLES |
| 148900000-E | 610 | 185 | TON | ASPHALT CONC BASE COURSE, TYPE B25.0B | 409600000-N | 904 | 2 | EA | SIGN ERECTION, TYPE D | 608400000-E | 1660 | 1.5 | ACR | SEEDING & MULCHING |
| 149800000-E | 610 | 200 | TON | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B | 410200000-N | 904 | 1 | EA | SIGN ERECTION, TYPE E | 608700000-E | 1660 | 1 | ACR | MOWING |
| 151900000-E | 610 | 465 | TON | ASPHALT CONC SURFACE COURSE, TYPE S9.5B | 415500000-N | 907 | 1 | EA | DISPOSAL OF SIGN SYSTEM, U-CHANNEL | 609000000-E | 1661 | 50 | LB | SEED FOR REPAIR SEEDING |
| 156000000-E | 620 | 46 | TON | ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22 | 415800000-N | 907 | 10 | EA | DISPOSAL OF SIGN SYSTEM, WOOD | 609300000-E | 1661 | 0.25 | TON | FERTILIZER FOR REPAIR SEEDING |
| 169300000-E | 654 | 100 | TON | ASPHALT PLANT MIX, PAVEMENT REPAIR | 440000000-E | 1110 | 353 | SF | WORK ZONE SIGNS (STATIONARY) | 609600000-E | 1662 | 50 | LB | SEED FOR SUPPLEMENTAL SEEDING |
| 202200000-E | 815 | 22.4 | CY | SUBDRAIN EXCAVATION | 441000000-E | 1110 | 20 | SF | WORK ZONE SIGNS (BARRICADE MOUNTED) | 610800000-E | 1665 | 1 | TON | FERTILIZER TOPDRESSING |
| 203300000-E | 815 | 16.8 | CY | SUBDRAIN FINE AGGREGATE | 444500000-E | 1145 | 64 | LF | BARRICADES (TYPE III) | 611400000-N | SP | 2 | HR | SPECIALIZED HAND MOWING |
| 204400000-E | 815 | 100 | LF | 6" PERFORATED SUBDRAIN PIPE | 481000000-E | 1205 | 7,200 | LF | PAINT PAVEMENT MARKING LINES (4") | 611700000-N | SP | 8 | EA | RESPONSE FOR EROSION CONTROL |
| | | | | | 490000000-N | 1251 | 12 | EA | PERMANENT RAISED PAVEMENT MARKERS | 612300000-E | 1670 | 0.1 | ACR | REFORESTATION |

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5/9/06

COMPUTED BY: PS_COHEN DATE: 5-15-06
 CHECKED BY: EAS DATE: 9-10-07

PROJECT REFERENCE NO. SHEET NO.
 B-4085 3-B

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

| LOCATION | UNCLASSIFIED EXCAVATION | EMBT + % | BORROW | WASTE |
|---|-------------------------|----------|--------|-------|
| -L- STA. 8+00.00 TO 11+85.00 (BRIDGE) | 91 | 1303 | 1212 | 0 |
| SUBTOTAL | 91 | 1303 | 1212 | 0 |
| -L- STA. 13+00.00 (BRIDGE) TO 17+00.00 | 46 | 759 | 713 | 0 |
| SUBTOTAL | 46 | 759 | 713 | 0 |
| TOTAL | 137 | 2062 | 1925 | 0 |
| PROJECT TOTAL | 137 | 2062 | 1925 | 0 |
| EST. 5% FOR REPL. TOPSOIL ON BORROW PIT | | | 96 | |
| GRAND TOTAL | 137 | 2062 | 2021 | 0 |
| SAY | 200 | | 2100 | |

UNDERCUT = 200 CY

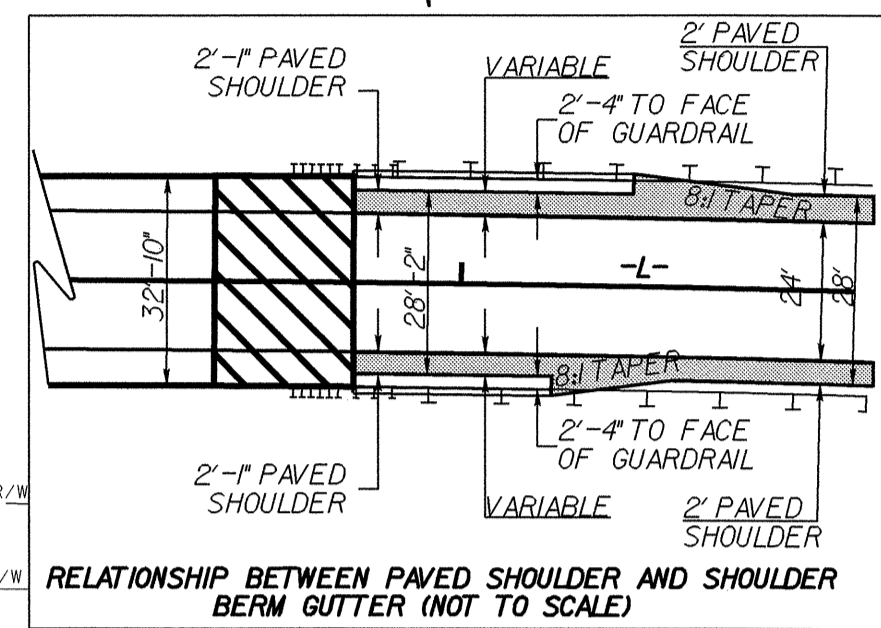
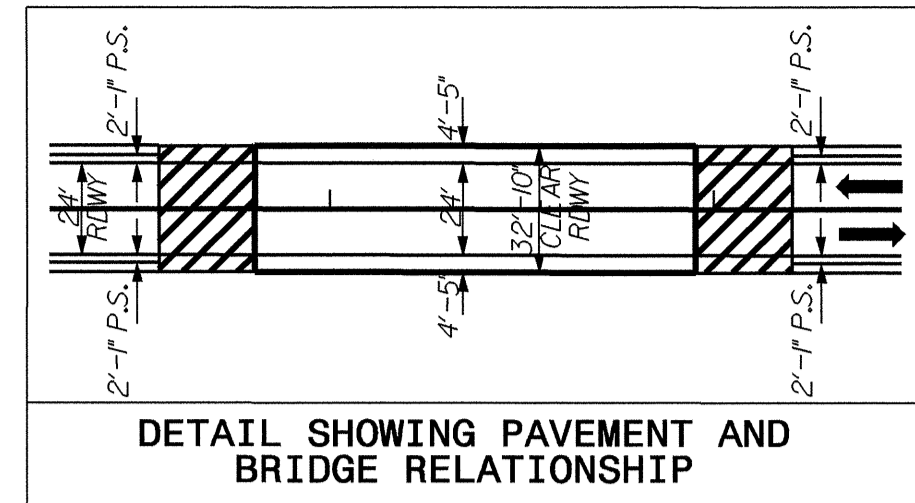
NOTE: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

NOTE: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

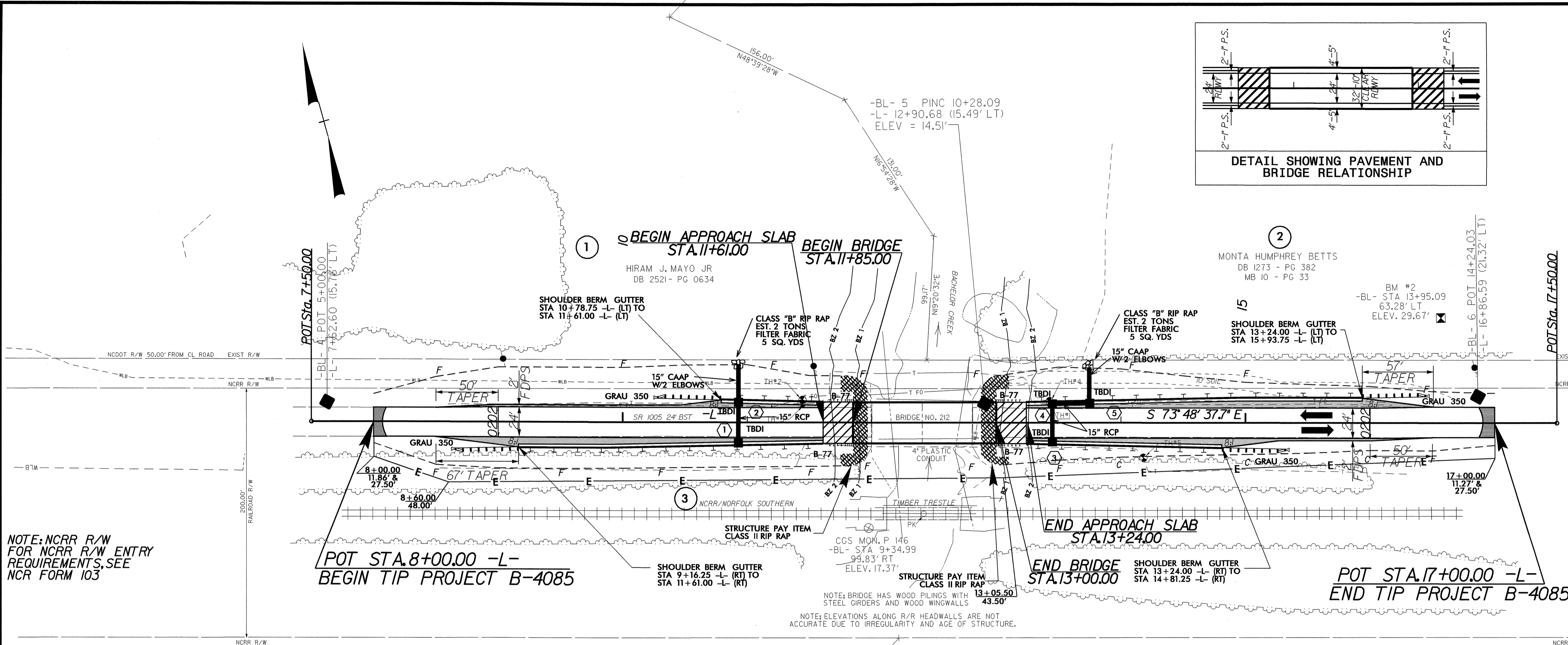
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8/17/99

| | |
|---|--|
| PROJECT REFERENCE NO. B-4085 | SHEET NO. 4 |
| ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER BRUCE B. PAYNE SEAL 16260 October 31, 2001 | HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19721 November 11, 2001 |



NOTE: FABRIC FOR SOIL STABILIZATION MAY BE USED FROM -L- STATION 15+30+/- TO 16+60+/- ALONG THE RIGHT SIDE TO ASSIST IN STABILIZING POTENTIALLY WEAK COHESIVE DEPOSITS. THE FABRIC SHOULD BE PLACED FROM EXISTING TOE OF FILL TO PROPOSED TOE OF FILL ALONG -L-. THE NEED FOR FABRIC FOR SOIL STABILIZATION WILL BE DETERMINED BY THE ENGINEER.



NOTE: NCR R/W FOR NCR R/W ENTRY REQUIREMENTS, SEE NCR FORM 103

NOTE: BRIDGE HAS WOOD PILING WITH STEEL GIRDERS AND WOOD WINGWALLS
NOTE: ELEVATIONS ALONG R/R HEADWALLS ARE NOT ACCURATE DUE TO IRREGULARITY AND AGE OF STRUCTURE.

RAW REVISION: CHANGED THE PROPERTY OWNER'S NAME ON PARCEL NO. 1 FROM INTERNATIONAL PAPER CORP TO HIRAM J. MAYO, JR. EAS 10-16-07

29-OCT-2007 16:32
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