



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

July 3, 2023

Addendum No. 1

RE: Contract # C204738

WBS # 49909.3.1

FEDERAL AID NO. 0040119

McDowell County (HI-0010)

I-40 FROM MILEMARKER 67 TO MILEMARKER 73 (OLD FORT MOUNTAIN).

July 18, 2023 Letting

To Whom It May Concern:

Reference is made to the proposal and plans furnished to you on this project.

The following revisions have been made to the Roadway Plans.

| Sheet No. | Revision |
|---------------|--|
| 2A-1 | Two notes added in lower right-hand corner. |
| 2C-6 (New) | Single Slope Concrete Barrier detail plan sheet added. |

Please void the above listed Sheets in your Plans and staple the revised Sheets thereto. Staple New Sheet 2C-6 after Sheet 2C-5 in your plans.

The following revisions have been made to the proposal.

| Page No. | Revision |
|----------------|--|
| Proposal Cover | Note added that reads "Includes Addendum No. 1 Dated 07-03-2023". |
| G-46 thru G-47 | The project special provision entitled NOTES TO CONTRACTOR has been revised. Third paragraph revised. |
| G-47 (New) | The project special provision entitled NOTES TO CONTRACTOR has been revised. Table added. |

Please void the above listed existing Pages in your proposal and staple the revised Pages thereto.

Staple New Page G-47 after new G-46 in your proposal.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

Website: www.ncdot.gov

On the item sheets the following pay item revision has been made:

| <u>Item</u> | <u>Description</u> | <u>Old Quantity</u> | <u>New Quantity</u> |
|--------------------------|---|---------------------|---------------------|
| 0112-2703000000-E 854 | CONCRETE BARRIER, TYPE SINGLE SLOPE DOUBLE FACED, 60" | NEW ITEM | 40 LF |

The Contractor's bid must include this pay item revision.

The electronic bidding file has been updated to reflect this revision. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:

F81B6038A47A442...

Ronald E. Davenport, Jr., PE
State Contract Officer

RED/cms
Attachments

cc: Mr. Boyd Tharrington, PE
Mr. Tim Anderson, PE
Mr. Ken Kennedy, PE
Mr. Mike Gwyn
Project File (2)

Mr. Forrest Dungan, PE
Ms. Jaci Kincaid
Mr. Jon Weathersbee, PE

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

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 07-03-2023

DATE AND TIME OF BID OPENING: **Jul 18, 2023 AT 02:00 PM**

CONTRACT ID C204738
WBS 49909.3.1

FEDERAL-AID NO. 0040119
COUNTY MCDOWELL
T.I.P NO. HI-0010
MILES 5.940
ROUTE NO. I-40
LOCATION I-40 FROM MILEMARKER 67 TO MILEMARKER 73 (OLD FORT MOUNTAIN).

TYPE OF WORK PAVEMENT REHABILITATION.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

The Engineer will perform independent turbidity tests on a random basis. These results will be maintained in a log within the project records. Records will include, at a minimum, turbidity test results, time, date and name of sampler. Should the Department's test results exceed those of the Contractor's test results, an immediate test shall be performed jointly with the results superseding the previous test results of both the Department and the Contractor.

The Contractor shall use the *NCDOT Turbidity Reduction Options for Borrow Pits Matrix*, available at <https://connect.ncdot.gov/resources/roadside/FieldOperationsDocuments/TurbidityReductionOptionSheet.pdf> to plan, design, construct, and maintain BMPs to address water quality standards. Tier I Methods include stilling basins which are standard compensatory BMPs. Other Tier I methods are noncompensatory and shall be used when needed to meet the stream turbidity standards. Tier II Methods are also noncompensatory and are options that may be needed for protection of rare or unique resources or where special environmental conditions exist at the site which have led to additional requirements being placed in the DWQ's 401 Certifications and approval letters, Isolated Wetland Permits, Riparian Buffer Authorization or a DOT Reclamation Plan's Environmental Assessment for the specific site. Should the Contractor exhaust all Tier I Methods on a site exclusive of rare or unique resources or special environmental conditions, Tier II Methods may be required by regulators on a case by case basis per supplemental agreement.

The Contractor may use cation exchange capacity (CEC) values from proposed site borings to plan and develop the bid for the project. CEC values exceeding 15 milliequivalents per 100 grams of soil may indicate a high potential for turbidity and should be avoided when dewatering into surface water is proposed.

No additional compensation for monitoring borrow pit discharge will be paid.

NOTES TO CONTRACTOR:

The Contractors attention is directed to the fact that existing Snowplowable Markers are present on the edge lines and skip lines of I-40. Proposed markers shall be spaced in accordance with STD 1250.01 except for the markers along the skip lines. Skip line markers shall be spaced 40' apart regardless of the degree of horizontal curvature.

The Contractor shall extend the existing guardrail and attach a new Guardrail Anchor Unit, Type III to the existing concrete median barrier at the bridge over the I-40 Eastbound off ramp to W. Main Street.

The Contractor shall remove and replace the precast median barrier on this project with single sloped double-faced concrete barrier. The existing single slope barrier shall remain in place. All gaps in the median barrier wall shall be marked and reinstalled in the same location. All 6 of the existing impact attenuators in the median gaps shall be replaced with new Impact Attenuators Type TL-3 (non-gating). The existing median barrier removable gates shall be removed and reset in the same location once the new concrete barrier is installed. The existing gates shall not be removed until temporary barriers are in place to prevent accidental vehicle crossovers.

Table correlating the BL points on each plan sheet with Mile Posts:

| POINT | DESC | BL STATION | MILE POST | SHEET |
|--------------|-------------|-------------------|------------------|--------------|
| 2 | GPS-2 | 16+72.22 | 67.63 | 4 |
| 9 | BL-9 | 22+21.50 | 67.73 | 4 |
| 10 | BL-10 | 27+13.03 | 67.82 | 4 |
| 11 | BL-11 | 32+44.42 | 67.92 | 5 |
| 12 | BL-12 | 37+59.45 | 68.01 | 5 |
| 13 | BL-13 | 47+20.50 | 68.19 | 6 |
| 14 | BL-14 | 53+18.40 | 68.31 | 6 |
| 15 | BL-15 | 63+03.35 | 68.49 | 7 |
| 4 | GPS-4 | 82+76.95 | 68.86 | 8 |
| 16 | BL-16 | 87+49.23 | 68.94 | 8 |
| 17 | BL-17 | | 69.07 | |
| 20 | BL-20 | 128+03.21 | 69.68 | 9 |
| 21 | BL-21 | 133+19.10 | 69.79 | 9 |
| 22 | BL-22 | 148+08.80 | 70.07 | 10 |
| 23 | BL-23 | 153+31.75 | 70.16 | 10 & 11 |
| 24 | BL-24 | 157+49.09 | 70.24 | 11 |
| 25 | BL-25 | 165+63.42 | 70.39 | 11 |
| 32 | BL-32 | 215+30.89 | 71.31 | 12 |
| 7 | GPS-7 | 226+43.89 | 71.52 | 13 |

County: MCDOWELL

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|----------------------|--------------|-------|--|--------------|-----------|--------|
| ROADWAY ITEMS | | | | | | |
| 0001 | 0000100000-N | 800 | MOBILIZATION | Lump Sum | L.S. | |
| 0002 | 0000400000-N | 801 | CONSTRUCTION SURVEYING | Lump Sum | L.S. | |
| 0003 | 0000700000-N | SP | FIELD OFFICE | Lump Sum | L.S. | |
| 0004 | 0036000000-E | 225 | UNDERCUT EXCAVATION | 560 CY | | |
| 0005 | 0106000000-E | 230 | BORROW EXCAVATION | 400 CY | | |
| 0006 | 0134000000-E | 240 | DRAINAGE DITCH EXCAVATION | 260 CY | | |
| 0007 | 0318000000-E | 300 | FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES | 430 TON | | |
| 0008 | 0320000000-E | 300 | FOUNDATION CONDITIONING GEOTEXTILE | 1,340 SY | | |
| 0009 | 0448200000-E | 310 | 15" RC PIPE CULVERTS, CLASS IV | 3,968 LF | | |
| 0010 | 0448300000-E | 310 | 18" RC PIPE CULVERTS, CLASS IV | 12 LF | | |
| 0011 | 0448400000-E | 310 | 24" RC PIPE CULVERTS, CLASS IV | 16 LF | | |
| 0012 | 0995000000-E | 340 | PIPE REMOVAL | 112 LF | | |
| 0013 | 1004500000-E | 505 | GENERIC GRADING ITEM GEOTEXTILE FOR SUBGRADE STABILIZATION | 1,340 SY | | |
| 0014 | 1099500000-E | 505 | SHALLOW UNDERCUT | 310 CY | | |
| 0015 | 1099700000-E | 505 | CLASS IV SUBGRADE STABILIZATION | 400 TON | | |
| 0016 | 1121000000-E | 520 | AGGREGATE BASE COURSE | 360 TON | | |
| 0017 | 1220000000-E | 545 | INCIDENTAL STONE BASE | 1,020 TON | | |

County: MCDOWELL

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|--------|--------------|-------|---|---------------|-----------|--------|
| 0018 | 1245000000-E | SP | SHOULDER RECONSTRUCTION | 1 SMI | | |
| 0019 | 1260000000-E | SP | AGGREGATE SHOULDER BORROW | 400 TON | | |
| 0020 | 1297000000-E | 607 | MILLING ASPHALT PAVEMENT, **** DEPTH (1/2") | 134,940 SY | | |
| 0021 | 1297000000-E | 607 | MILLING ASPHALT PAVEMENT, **** DEPTH (3") | 74,000 SY | | |
| 0022 | 1330000000-E | 607 | INCIDENTAL MILLING | 4,530 SY | | |
| 0023 | 1503000000-E | 610 | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C | 60 TON | | |
| 0024 | 1524200000-E | 610 | ASPHALT CONC SURFACE COURSE, TYPE S9.5D | 12,080 TON | | |
| 0025 | 1575000000-E | 620 | ASPHALT BINDER FOR PLANT MIX | 152 TON | | |
| 0026 | 1577000000-E | 620 | POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX | 1,194 TON | | |
| 0027 | 1693000000-E | 654 | ASPHALT PLANT MIX, PAVEMENT REPAIR | 180 TON | | |
| 0028 | 1704000000-E | SP | PATCHING EXISTING PAVEMENT | 3,100 TON | | |
| 0029 | 1839140000-E | 661 | ULTRA-THIN BONDED WEARING COURSE | 9,730 TON | | |
| 0030 | 1840000000-E | 665 | MILLED RUMBLE STRIPS (ASPHALT CONCRETE) | 10,800 LF | | |
| 0031 | 2253000000-E | 840 | PIPE COLLARS | 6.34 CY | | |
| 0032 | 2286000000-N | 840 | MASONRY DRAINAGE STRUCTURES | 50 EA | | |
| 0033 | 2308000000-E | 840 | MASONRY DRAINAGE STRUCTURES | 5 LF | | |
| 0034 | 2407000000-N | 840 | STEEL FRAME WITH TWO GRATES, STD 840.37 | 50 EA | | |

County: MCDOWELL

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|--------|--------------|-------|--|--------------|-----------|--------|
| 0035 | 2473000000-N | SP | GENERIC DRAINAGE ITEM DRAINAGE STRUCTURE CLEANOUT | 60 EA | | |
| 0036 | 2473000000-N | SP | GENERIC DRAINAGE ITEM REMOVE AND REPLACE CONCRETE APRON FOR DROP INLET | 5 EA | | |
| 0037 | 2489000000-E | SP | GENERIC DRAINAGE ITEM REMOVE AND REPLACE 4" CONCRETE PAVED DITCH | 485 SY | | |
| 0038 | 2703000000-E | 854 | CONCRETE BARRIER, TYPE ***** (SINGLE SLOPE DOUBLE FACED) | 21,430 LF | | |
| 0039 | 2710000000-N | 854 | CONCRETE BARRIER TRANSITION SECTION | 9 EA | | |
| 0040 | 2752000000-E | SP | GENERIC PAVING ITEM EXISTING BARRIER WALL REMOVAL | 21,430 LF | | |
| 0041 | 2815000000-N | 858 | ADJUSTMENT OF DROP INLETS | 10 EA | | |
| 0042 | 2830000000-N | 858 | ADJUSTMENT OF MANHOLES | 3 EA | | |
| 0043 | 2845000000-N | 858 | ADJUSTMENT OF METER BOXES OR VALVE BOXES | 3 EA | | |
| 0044 | 2905000000-N | 859 | CONVERT EXISTING DROP INLET TO JUNCTION BOX | 4 EA | | |
| 0045 | 3001000000-N | SP | IMPACT ATTENUATOR UNITS, TYPE TL-3 | 6 EA | | |
| 0046 | 3030000000-E | 862 | STEEL BEAM GUARDRAIL | 200 LF | | |
| 0047 | 3150000000-N | 862 | ADDITIONAL GUARDRAIL POSTS | 10 EA | | |
| 0048 | 3195000000-N | 862 | GUARDRAIL END UNITS, TYPE AT-1 | 2 EA | | |
| 0049 | 3210000000-N | 862 | GUARDRAIL END UNITS, TYPE CAT-1 | 8 EA | | |
| 0050 | 3215000000-N | SP | GUARDRAIL ANCHOR UNITS, TYPE III | 15 EA | | |
| 0051 | 3360000000-E | 863 | REMOVE EXISTING GUARDRAIL | 100 LF | | |

County: MCDOWELL

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|--------|--------------|-------|---|-------------|-----------|--------|
| 0052 | 3435000000-N | SP | GENERIC GUARDRAIL ITEM REMOVE AND RESET MEDIAN BARRIER REMOVABLE GATE | 3 EA | | |
| 0053 | 3649000000-E | 876 | RIP RAP, CLASS B | 400 TON | | |
| 0054 | 3656000000-E | 876 | GEOTEXTILE FOR DRAINAGE | 4,000 SY | | |
| 0055 | 4079000000-N | 903 | SUPPORTS, BARRIER (SMALL) | 7 EA | | |
| 0056 | 4116100000-N | 904 | SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (E) | 8 EA | | |
| 0057 | 4400000000-E | 1110 | WORK ZONE SIGNS (STATIONARY) | 880 SF | | |
| 0058 | 4405000000-E | 1110 | WORK ZONE SIGNS (PORTABLE) | 384 SF | | |
| 0059 | 4415000000-N | 1115 | FLASHING ARROW BOARD | 4 EA | | |
| 0060 | 4420000000-N | 1120 | PORTABLE CHANGEABLE MESSAGE SIGN | 6 EA | | |
| 0061 | 4422000000-N | 1120 | PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM) | 14 DAY | | |
| 0062 | 4423000000-N | SP | WORK ZONE DIGITAL SPEED LIMIT SIGNS | 10 EA | | |
| 0063 | 4424000000-N | SP | WORK ZONE PRESENCE LIGHTING | 14 EA | | |
| 0064 | 4430000000-N | 1130 | DRUMS | 250 EA | | |
| 0065 | 4434000000-N | SP | SEQUENTIAL FLASHING WARNING LIGHTS | 24 EA | | |
| 0066 | 4465000000-N | 1160 | TEMPORARY CRASH CUSHIONS | 2 EA | | |
| 0067 | 4470000000-N | 1160 | REMOVE & RESET TEMPORARY CRASH CUSHION | 18 EA | | |
| 0068 | 4480000000-N | 1165 | TMA | 2 EA | | |

County: MCDOWELL

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|--------|--------------|-------|--|---------------|-----------|--------|
| 0069 | 4485000000-E | 1170 | PORTABLE CONCRETE BARRIER | 12,000 LF | | |
| 0070 | 4500000000-E | 1170 | REMOVE AND RESET PORTABLE CONCRETE BARRIER | 65,000 LF | | |
| 0071 | 4510000000-N | 1190 | LAW ENFORCEMENT | 2,528 HR | | |
| 0072 | 4600000000-N | SP | GENERIC TRAFFIC CONTROL ITEM CONNECTED LANE CLOSURE SYSTEM | 2 EA | | |
| 0073 | 4650000000-N | 1251 | TEMPORARY RAISED PAVEMENT MARKERS | 800 EA | | |
| 0074 | 4688000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) | 156,948 LF | | |
| 0075 | 4700000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS) | 5,400 LF | | |
| 0076 | 4725000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) | 12 EA | | |
| 0077 | 4775000000-E | 1205 | COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (6") (II) | 780 LF | | |
| 0078 | 4775000000-E | 1205 | COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (6") (IV) | 2,000 LF | | |
| 0079 | 4815000000-E | 1205 | PAINT PAVEMENT MARKING LINES (6") | 308,750 LF | | |
| 0080 | 4825000000-E | 1205 | PAINT PAVEMENT MARKING LINES (12") | 6,000 LF | | |
| 0081 | 4845000000-N | 1205 | PAINT PAVEMENT MARKING SYMBOL | 10 EA | | |
| 0082 | 4855000000-E | 1205 | REMOVAL OF PAVEMENT MARKING LINES (6") | 17,500 LF | | |
| 0083 | 4905100000-N | SP | NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER | 8,832 EA | | |
| 0084 | 5255000000-N | 1413 | PORTABLE LIGHTING | Lump Sum | L.S. | |
| 0085 | 6000000000-E | 1605 | TEMPORARY SILT FENCE | 220 LF | | |

County: MCDOWELL

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|--------|--------------|-------|---------------------------------------|------------|-----------|--------|
| 0086 | 6009000000-E | 1610 | STONE FOR EROSION CONTROL, CLASS B | 80 TON | | |
| 0087 | 6012000000-E | 1610 | SEDIMENT CONTROL STONE | 100 TON | | |
| 0088 | 6015000000-E | 1615 | TEMPORARY MULCHING | 2 ACR | | |
| 0089 | 6018000000-E | 1620 | SEED FOR TEMPORARY SEEDING | 50 LB | | |
| 0090 | 6021000000-E | 1620 | FERTILIZER FOR TEMPORARY SEEDING | 1 TON | | |
| 0091 | 6029000000-E | SP | SAFETY FENCE | 400 LF | | |
| 0092 | 6030000000-E | 1630 | SILT EXCAVATION | 120 CY | | |
| 0093 | 6036000000-E | 1631 | MATTING FOR EROSION CONTROL | 140 SY | | |
| 0094 | 6038000000-E | SP | PERMANENT SOIL REINFORCEMENT MAT | 120 SY | | |
| 0095 | 6042000000-E | 1632 | 1/4" HARDWARE CLOTH | 100 LF | | |
| 0096 | 6071010000-E | SP | WATTLE | 680 LF | | |
| 0097 | 6071012000-E | SP | COIR FIBER WATTLE | 100 LF | | |
| 0098 | 6071020000-E | SP | POLYACRYLAMIDE (PAM) | 48 LB | | |
| 0099 | 6084000000-E | 1660 | SEEDING & MULCHING | 1 ACR | | |
| 0100 | 6087000000-E | 1660 | MOWING | 1 ACR | | |
| 0101 | 6090000000-E | 1661 | SEED FOR REPAIR SEEDING | 200 LB | | |
| 0102 | 6093000000-E | 1661 | FERTILIZER FOR REPAIR SEEDING | 1 TON | | |

County: MCDOWELL

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|--------|--------------|-------|---|------------|-----------|--------|
| 0103 | 6096000000-E | 1662 | SEED FOR SUPPLEMENTAL SEEDING | 200 LB | | |
| 0104 | 6108000000-E | 1665 | FERTILIZER TOPDRESSING | 2 TON | | |
| 0105 | 6114500000-N | 1667 | SPECIALIZED HAND MOWING | 60 MHR | | |
| 0106 | 6114800000-N | SP | MANUAL LITTER REMOVAL | 100 MHR | | |
| 0107 | 6114900000-E | SP | LITTER DISPOSAL | 3 TON | | |
| 0108 | 6117000000-N | SP | RESPONSE FOR EROSION CONTROL | 22 EA | | |
| 0109 | 6117500000-N | SP | CONCRETE WASHOUT STRUCTURE | 4 EA | | |
| 0110 | 6132000000-N | SP | GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE | 50 EA | | |
| 0111 | 6132000000-N | SP | GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT | 150 EA | | |
| 0112 | 2703000000-E | 854 | CONCRETE BARRIER, TYPE ***** (SINGLE SLOPE DOUBLE FACED, 60") | 40 LF | | |

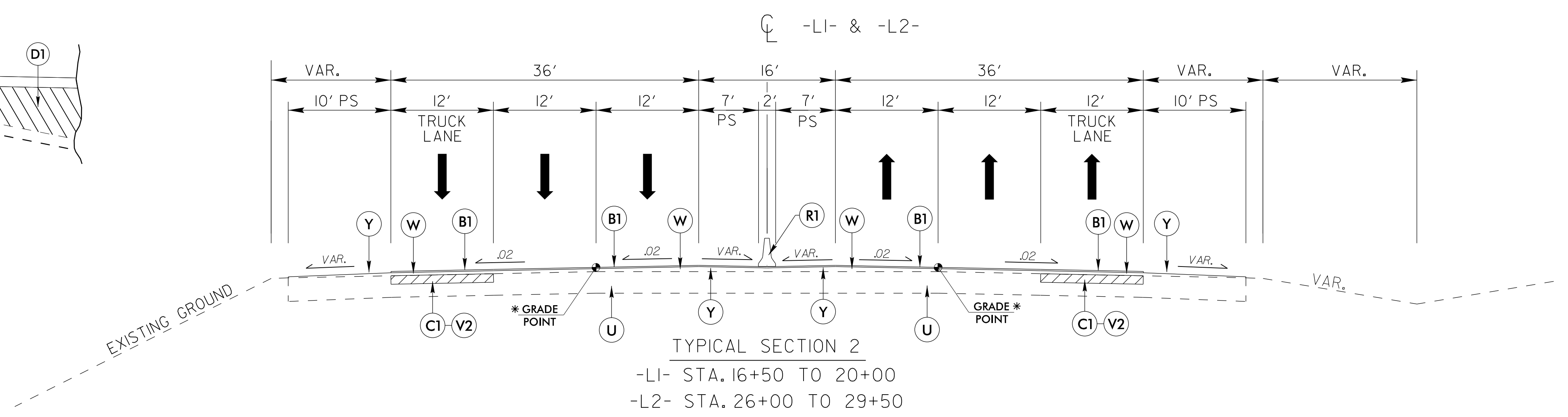
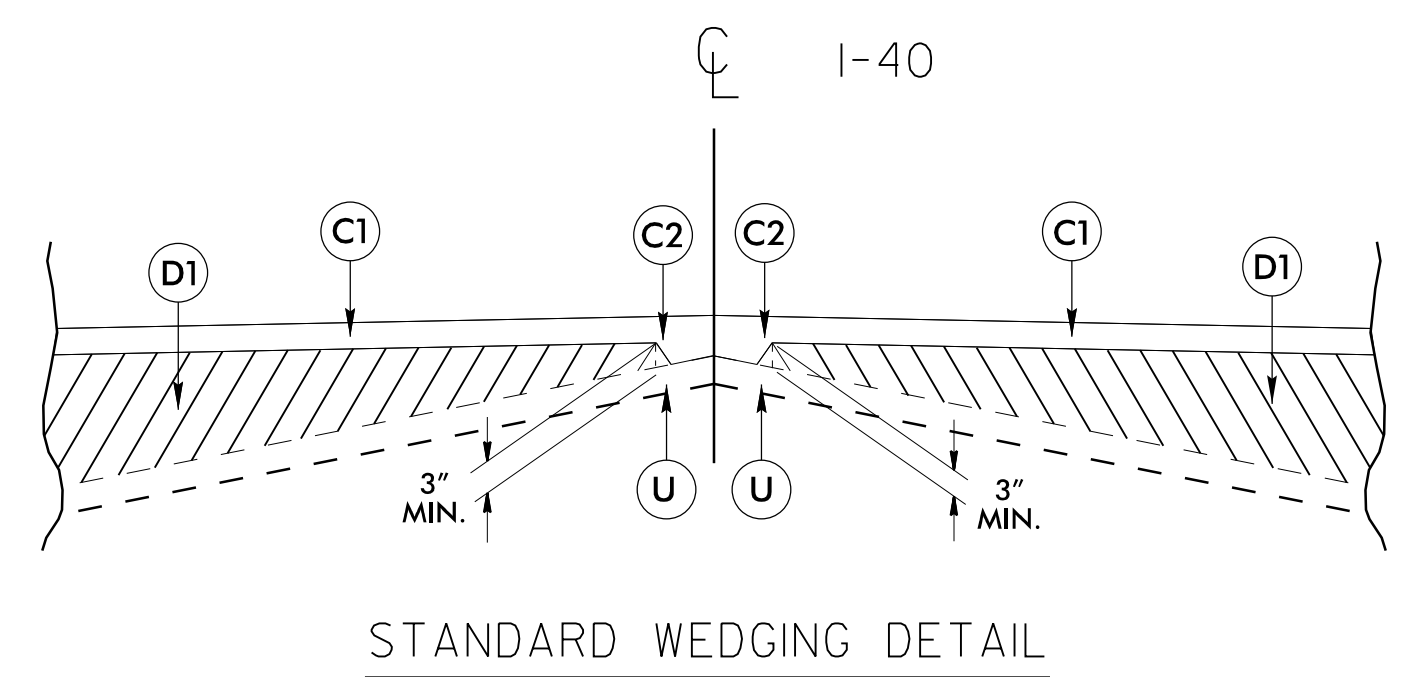
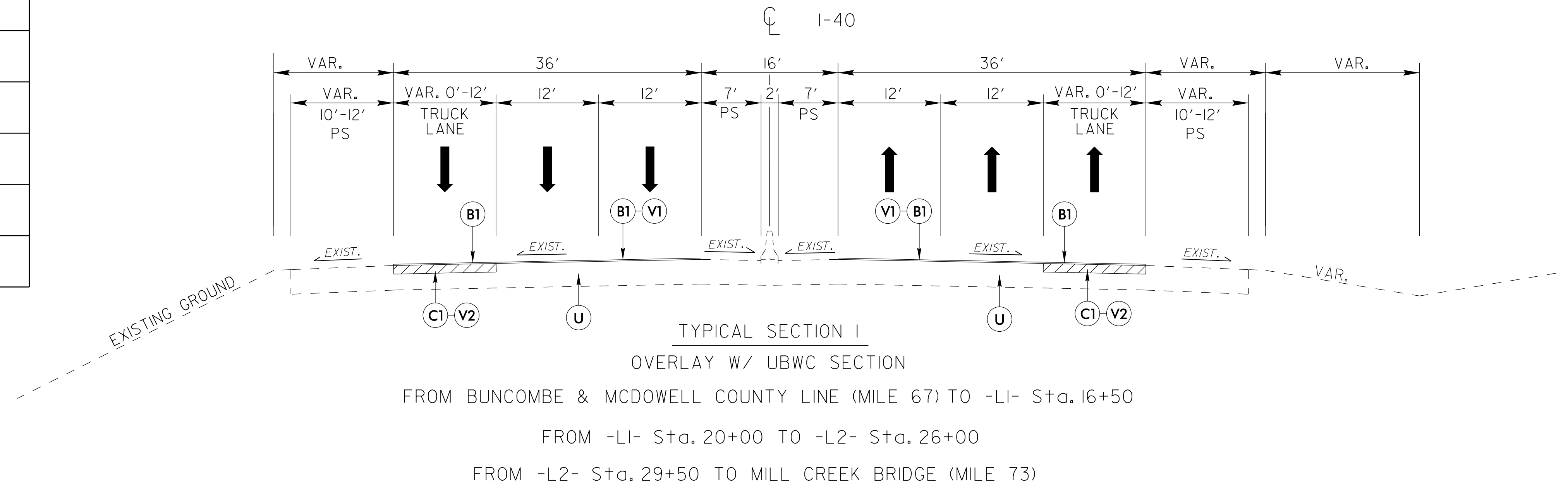
1231/Jun30/Q901173.34/D401492082000/E112

Total Amount Of Bid For Entire Project :

6/2/99

| PAVEMENT SCHEDULE | |
|-------------------|--|
| B1 | PROP. APPROX. 5/8" ULTRATHIN BONDED WEARING COURSE (UBWC), AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD. |
| C1 | PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| C2 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1 1/2" OR GREATER THAN 2" IN DEPTH |
| D1 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" OR GREATER THAN 4" IN DEPTH. |
| R1 | CONCRETE MEDIAN BARRIER |
| U | EXISTING PAVEMENT |
| V1 | 0.5" MILLING (AS NEEDED) |
| V2 | 3" MILLING |
| W | VARIABLE DEPTH ASPHALT PAVEMENT |
| Y | RUMBLE STRIPS |

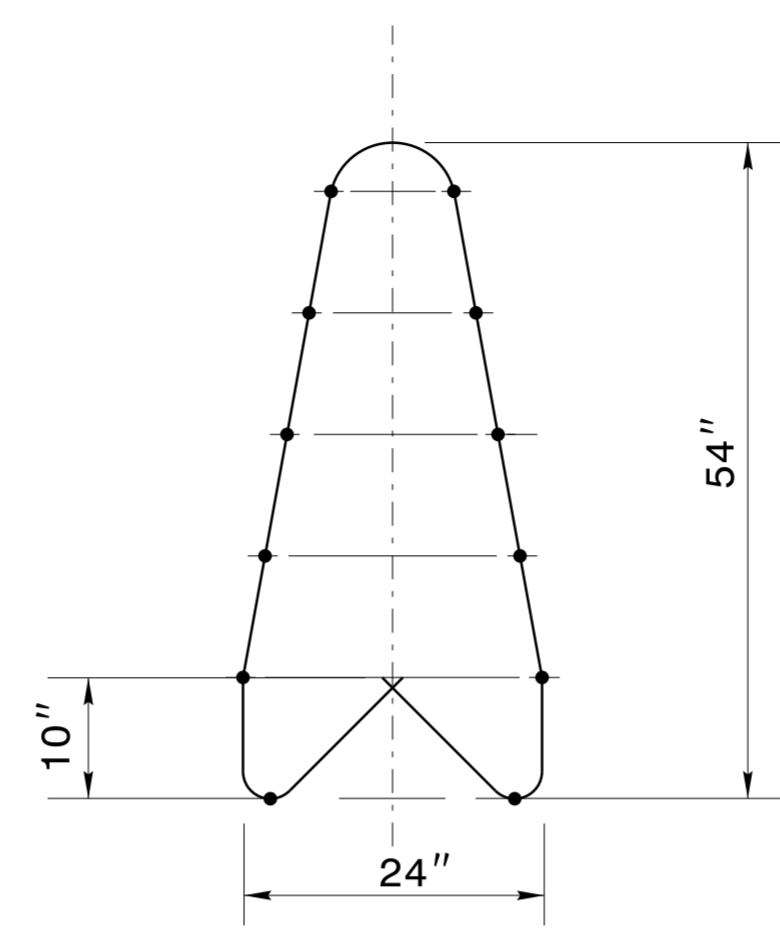
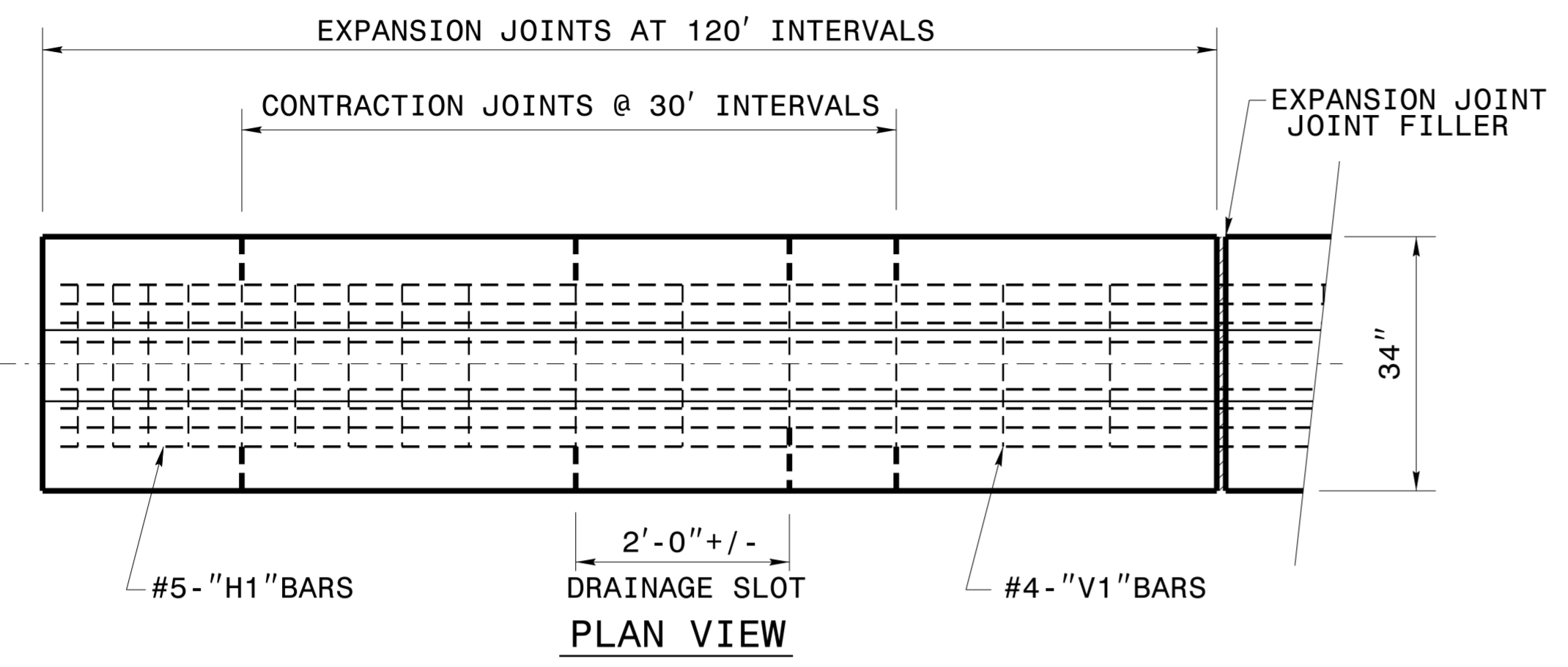
| | |
|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| HI-0010 | 2A-1 |



* NOTE: GRADE POINT ELEVATIONS PROVIDED ON CROSS SECTIONS

Remove existing portable concrete median barrier and replaced with 42" single slope concrete barrier as shown on detail sheet 2C-1 at the follow locations:
Mile Post 66.88 to 68.88, Mile Post 69.33 to 70.99 and Mile Post 71.21 to 71.72

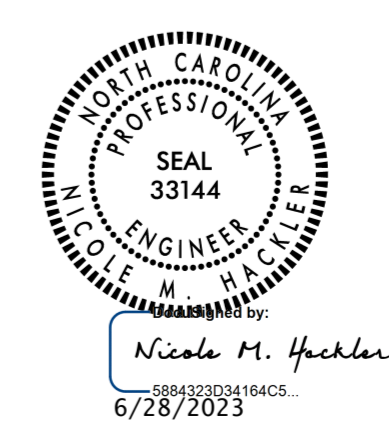
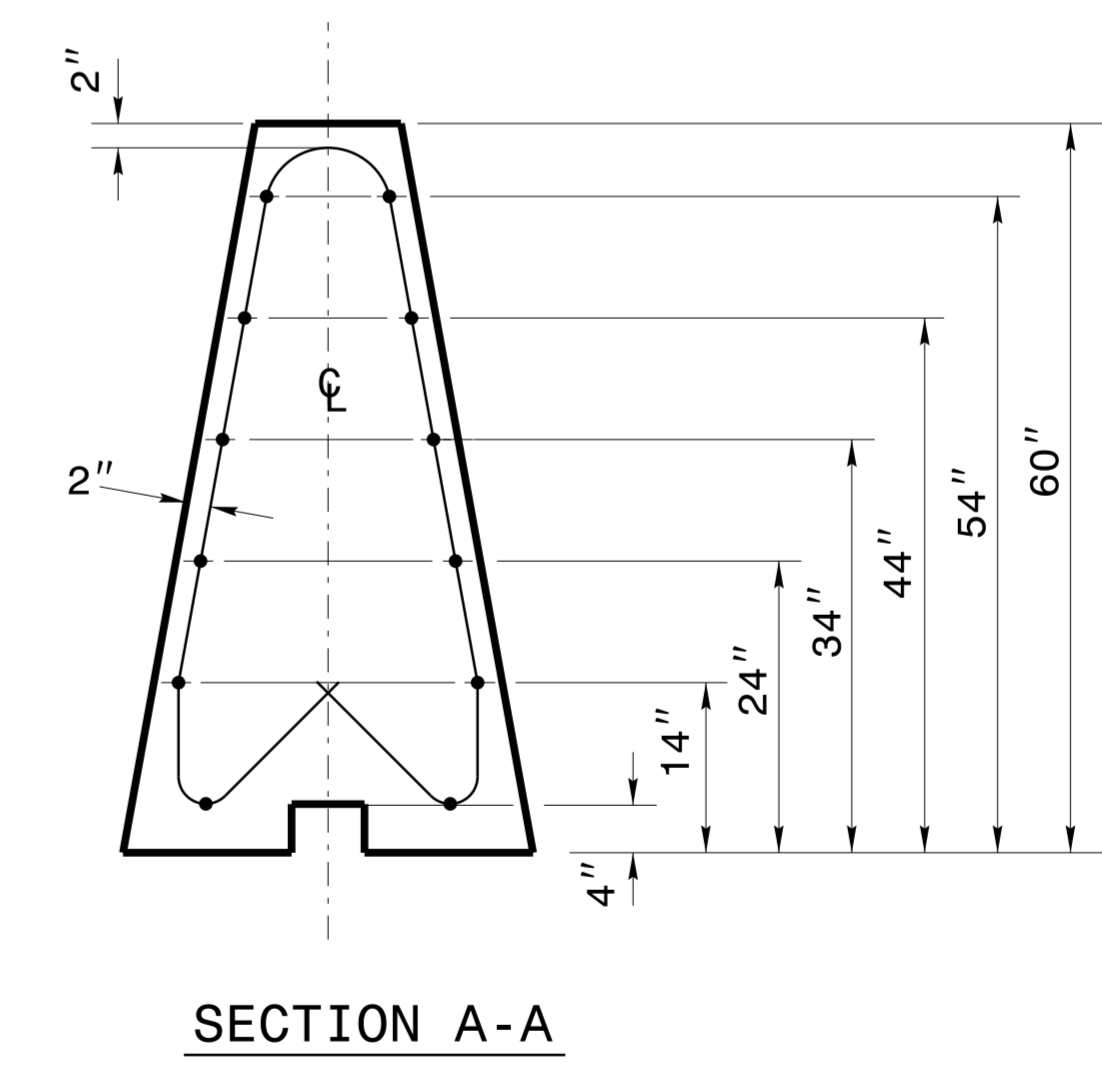
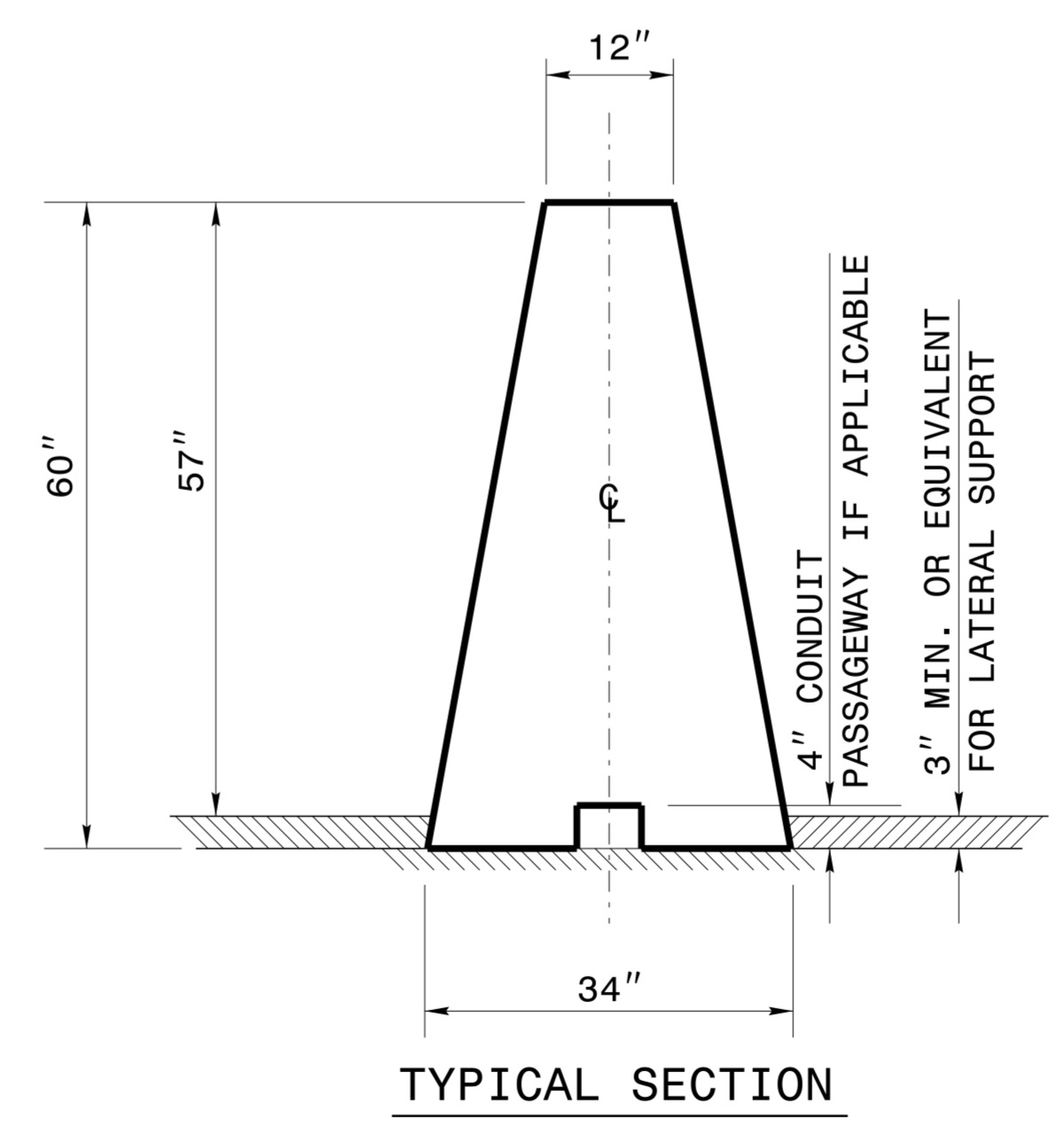
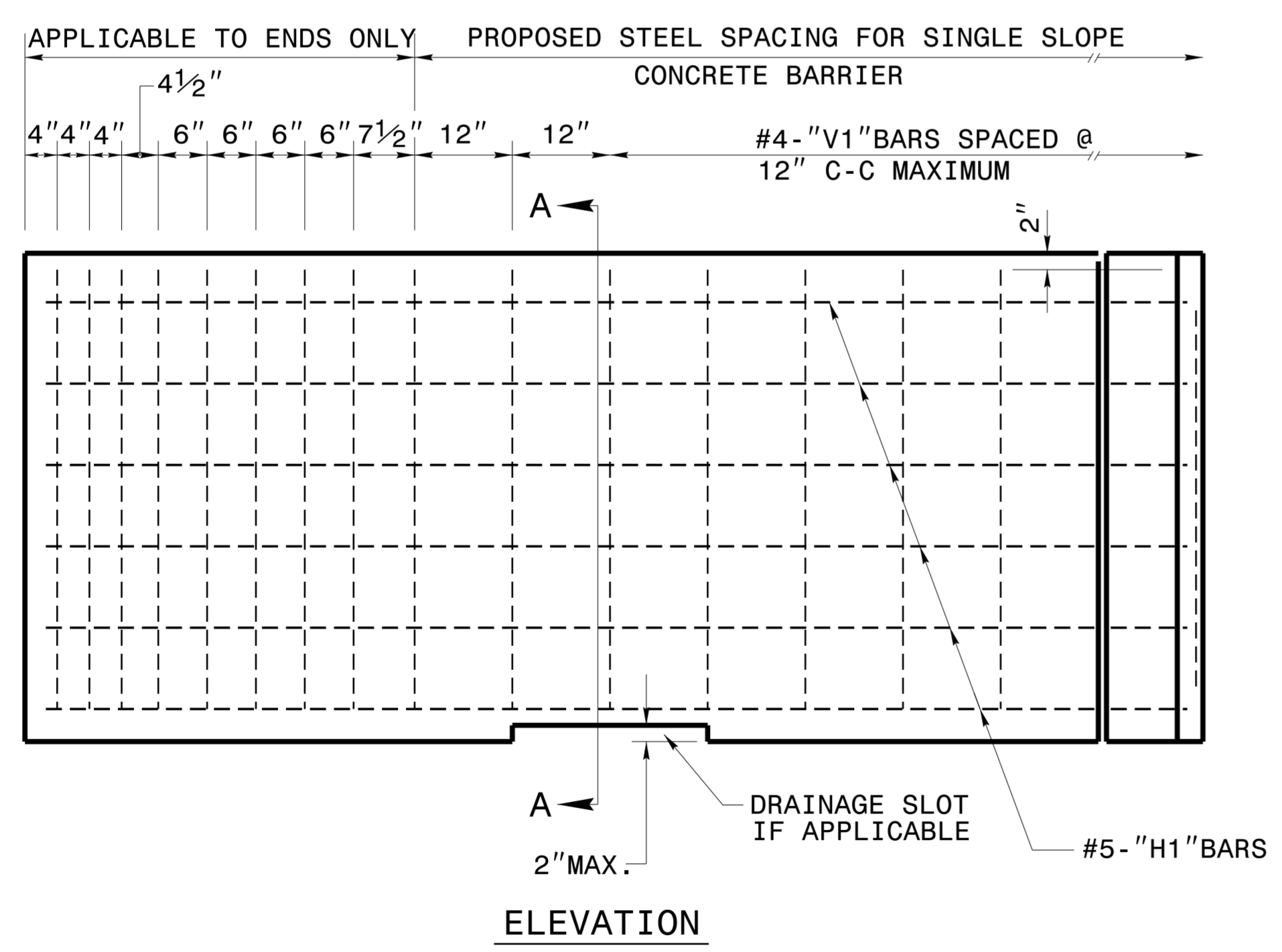
Remove existing single slope concrete barrier and replace with 60" single slope concrete barrier as shown on detail sheet 2C-6 at the following location:
Pipe crossing between drainage structure 801 and 802 at Mile Post 68.90



GENERAL NOTES:

- USE CLASS "AA" CONCRETE.
- CHAMFER TOP AND ENDS OF BARRIER 1/2 INCH.
- USE BAR SPLICE LENGTHS A MINIMUM OF 20 TIMES THE NORMAL DIAMETER OF THE BAR. ANY METHOD DEvised BY THE CONTRACTOR AND APPROVED BY THE ENGINEER THAT WILL ASSURE THE LONGITUDINAL ROADWAY STEEL WILL BE POSITIONED +/- 1/2 INCH AS DIMENSIONED WILL BE SATISFACTORY.

WELDED WIRE FABRIC MAY BE USED AS AN OPTION TO CONVENTIONAL REINFORCEMENT FOR CAST-IN-PLACE BARRIER. WELDED WIRE FABRIC SHALL BE MADE IN ACCORDANCE WITH ASTM A497. CONDUIT TO BE PROVIDED ONLY WHEN CALLED FOR ELSEWHERE IN THE PLANS. POSITION OF THE CONDUIT CONDUIT PASSAGEWAY MAY BE ADJUSTED TO FACILITATE CONSTRUCTION, SUBJECT TO APPROVAL BY THE ENGINEER.
- REFER TO ROADWAY STANDARD DRAWING NO.854.01 FOR EXPANSION AND CONTRACTION JOINT, FILLER AND OTHER SPECIFICATIONS.



CONTRACT STANDARDS & DEVELOPMENT UNIT
STANDARDS AND SPECIAL DESIGN
Office 919-250-4128 FAX 919-250-4119

**SINGLE SLOPE
CONCRETE BARRIER**

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: kakempf DATE: 03-03-10
CHECKED BY: _____ DATE: _____
FILE SPEC.: details/nbritt/english/guardrail/single slope concrete barrier.dgn