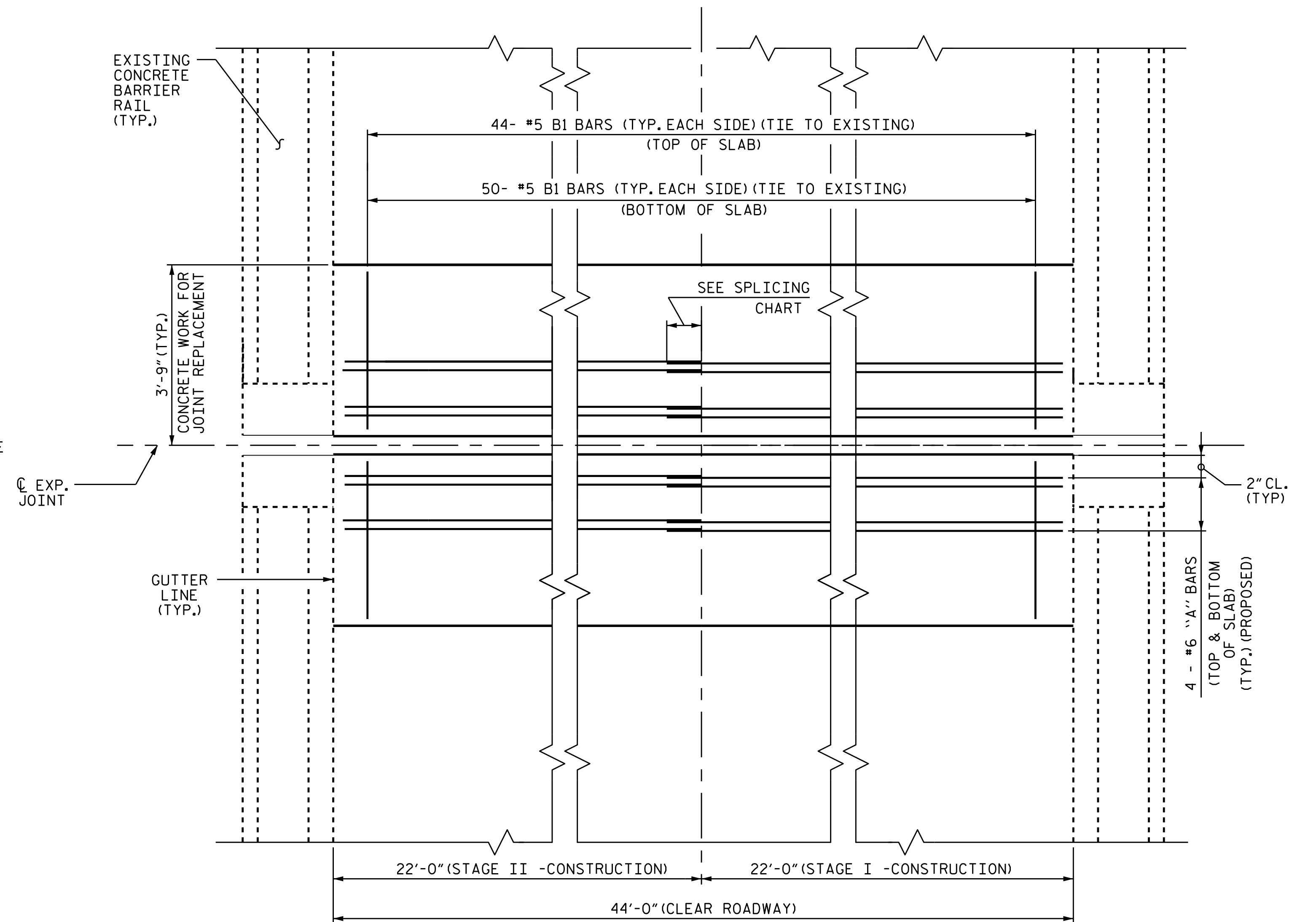


**TYPICAL PLAN OF EXISTING MODULAR JOINT**



**TYPICAL PROPOSED JOINT**

**NOTES**

EXISTING DIMENSIONS ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS OR CONDITIONS DIFFER.

THE ENGINEER WILL REVIEW EXISTING DECK CONDITIONS. THE CONTRACTOR SHALL REMOVE UNSOUND CONCRETE IN THE DECK, OR AS DIRECTED BY THE ENGINEER.

DECK CONCRETE SHALL BE REPLACED WITH CLASS AA HIGH EARLY STRENGTH PORTLAND CEMENT CONCRETE ACCORDING TO SECTION 1000-5 OF THE STANDARD SPECIFICATIONS.

REMOVE BRIDGE DECK CONCRETE TO THE EXTENT NECESSARY TO REMOVE EXISTING JOINT. INTRODUCE A PARTIAL DEPTH SAWCUT NOT EXCEEDING 1" IN DEPTH. FOLLOWED BY CONCRETE REMOVAL WITHOUT DAMAGE TO EXISTING REINFORCING STEEL AND EXISTING GIRDERS.

RETAIN BRIDGE DECK REINFORCING STEEL. STRAIGHTEN, REPAIR, OR REPLACE REINFORCING STEEL, AS NECESSARY.

THE CONTRACTOR SHALL CONSTRUCT THE OPENING FOR THE STRIP SEAL EXPANSION JOINT BASED UPON THE MANUFACTURER'S RECOMMENDATIONS. FOR ALL TEMPERATURE RANGES, THE JOINT WIDTH MAY NOT BE LESS THAN 1" OR GREATER THAN 3/2". THE CONTRACTOR SHALL INSTALL JOINT SEAL ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

REMOVE EXISTING MODULAR EXPANSION JOINT IN ENTIRETY AND ALL OTHER JOINT HARDWARE.

PROPOSED A1, A2 AND B1 BARS SHALL BE SPACED SO AS TO MATCH SPACING OF EXISTING "A" AND "B" BARS.

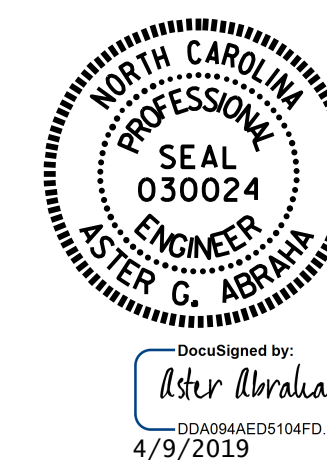
THE REPAIR CONCRETE SHALL ATTAIN A STRENGTH OF 3,000 PSI PRIOR TO THE INTRODUCTION OF TRAFFIC.

| BILL OF MATERIAL FOR ONE BENT (TWO REQUIRED) |     |      |      |        |        |
|--|-----|------|------|--------|--------|
| STAGE 1                                      |     |      |      |        |        |
| BAR  | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| * A1   | 8   | #6   | STR  | 25'-0" | 300    |
| * B1   | 94  | #5   | STR  | 3'-4"  | 327    |
| * EPOXY COATED REINFORCING STEEL = 627 LBS   |     |      |      |        |        |
| CLASS AA CONCRETE = 8.0 C.Y.                 |     |      |      |        |        |
| STAGE 2                                      |     |      |      |        |        |
| BAR  | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| * A2   | 8   | #6   | STR  | 22'-0" | 265    |
| * B1   | 94  | #5   | STR  | 3'-4"  | 327    |
| * EPOXY COATED REINFORCING STEEL = 592 LBS   |     |      |      |        |        |
| CLASS AA CONCRETE = 8.0 C.Y.                 |     |      |      |        |        |

| BAR SIZE | SUPERSTRUCTURE EXCEPT APPROACH SLABS, PARAPET, AND BARRIER RAIL |          | APPROACH SLABS |          | PARAPET AND BARRIER RAIL |
|----------|---|----------|----------------|----------|--------------------------|
|          | EPOXY COATED  | UNCOATED | EPOXY COATED   | UNCOATED |                          |
| #4       | 2'-0"   | 1'-9"    | 2'-0"          | 1'-9"    | 2'-9"                    |
| #5       | 2'-6"   | 2'-2"    | 2'-6"          | 2'-2"    | 3'-5"                    |
| #6       | 3'-0"   | 2'-7"    | 3'-10"         | 2'-7"    | 4'-4"                    |

PROJECT NO. 15BPR.17  
HALIFAX COUNTY  
 BRIDGE NO. 410063

SHEET 2 OF 2



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**MODULAR JOINT REPLACEMENT**

**BENTS 1 & 4**

| REVISIONS |     |       |     |     |       | SHEET NO.       |
|-----------|-----|-------|-----|-----|-------|-----------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-12            |
| 1         |     |       | 3   |     |       | TOTAL SHEETS 21 |
| 2         |     |       | 4   |     |       |                 |

DRAWN BY : S. T. SANDOR DATE : 09/2018  
 CHECKED BY : M. AHMED/A. G. ABRAHA DATE : 09/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED