

ELEVATION

NOTES:

CONCRETE PARAPET IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THAT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN PARAPETS AND END POSTS SHALL BE EPOXY COATED.

FOR DETAILS OF CONCRETE INSERTS IN END POSTS, SEE "RAIL POST SPACINGS AND END OF RAIL DETAILS"

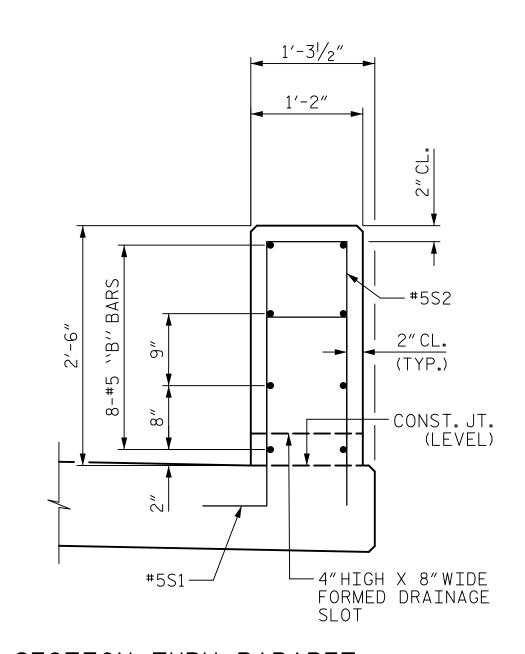
THE #5 S1 AND S2 BARS MAY BE SHIFTED SLIGHTLY IN ORDER TO MAINTAIN A 2"MIN. CLEARANCE TO THE $\frac{1}{2}$ " EXPANSION JOINT MATERIAL IN PARAPET.

GROOVED CONTRACTION JOINTS $\frac{1}{2}$ " IN DEPTH SHALL BE TOOLED IN ALL EXPOSED FACES OF THE PARAPET AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF PARAPET SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FOR DETAILS AND LOCATION OF GUARDRAIL ANCHORAGE ASSEMBLIES, SEE "GUARDRAIL ANCHORAGE DETAILS FOR METAL RAILS" SHEETS.

THE 8"WIDE X 4"HIGH FORMED DRAINAGE SLOTS MAY BE SHIFTED SLIGHTLY, AS NECESSARY, TO CLEAR THE "S" BARS IN THE PARAPET.

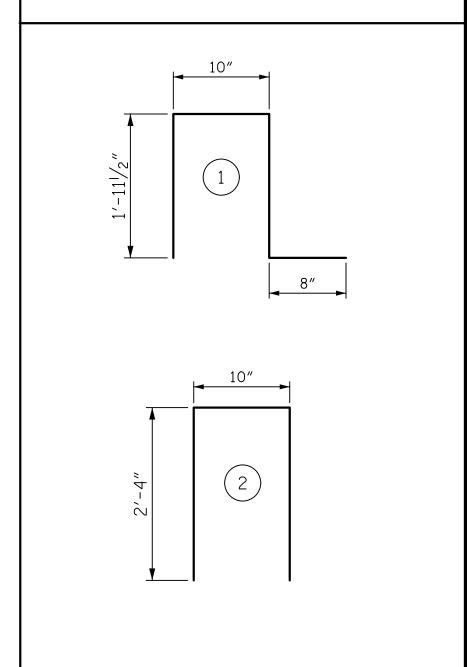
THE #5 S3 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. THE YIELD LOAD FOR THE #5 S3 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.



SECTION THRU PARAPET

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL

SIGNATURES COMPLETED



ALL BAR DIMENSIONS ARE OUT TO OUT

| BILL OF MATERIAL FOR CONCRETE PARAPET AND END POST ONLY | | | | | |
|--|-----|----|-----|---------|------|
| | | | | | |
| | | | | | |
| ∗ B1 | 8 | #5 | STR | 12'-4" | 103 |
| ∗ B2 | 48 | #5 | STR | 25′-7″ | 1281 |
| ∗ B3 | 8 | #5 | STR | 13′-5″ | 112 |
| ₩ B4 | 8 | #5 | STR | 18'-11" | 158 |
| ₩ B5 | 32 | #5 | STR | 18′-7″ | 620 |
| ₩ B6 | 8 | #5 | STR | 17'-11" | 149 |
| | | | | | |
| ★ E1 | 4 | #7 | STR | 2′-6″ | 20 |
| ★ E2 | 4 | #7 | STR | 3′-0″ | 25 |
| ★ E3 | 4 | #7 | STR | 3′-6″ | 29 |
| * E4 | 4 | #7 | STR | 4'-0" | 33 |
| ★ E5 | 4 | #7 | STR | 4'-4" | 35 |
| | | | | | |
| 米 F1 | 4 | #6 | STR | 1'-9" | 11 |
| ★ F2 | 4 | #6 | STR | 2'-11" | 18 |
| ★ F3 | 4 | #6 | STR | 3′-9″ | 23 |
| | | | | | |
| * S1 | 281 | #5 | 1 | 5′-5″ | 1588 |
| 米 S2 | 281 | #5 | 2 | 5′-6″ | 1612 |
| * S3 | 32 | #5 | STR | 3′-0″ | 100 |

* EPOXY COATED 5,917 LBS. REINFORCING STEEL 32.7 CU. YDS. CLASS AA CONCRETE 2'-6" CONCRETE PARAPET 296.33 LIN.FT.

U-5748 PROJECT NO. WAKE COUNTY

24+88.00 -L-

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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE

CONCRETE PARAPET & END POST DETAILS

(SOUTHBOUND LANES)

SHEET NO. REVISIONS S2-29 NO. BY: DATE: BY: DATE: TOTAL SHEETS 119

AECOM

030474 John C. Morrison

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PARAPET AND END POST FOR TWO BAR RAIL

DRAWN BY: D.R. DRUM
CHECKED BY: J.C. MORRISON
DESIGNED BY: D.R. DRUM DATE: 06/2021
DATE: 06/2021 ___ DATE : <u>06/2021</u> DESIGN CHECKED BY : J.C. MORRISON DATE : 06/2021

END VIEW