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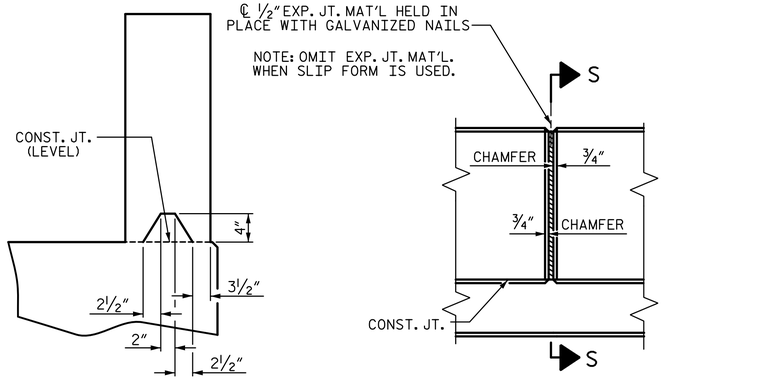


SECTION S-S

@ DAM IN OPEN JOINT (THIS IS TO BE USED ONLY WHEN SLIP FORM IS USED)

ELEVATION AT EXPANSION JOINTS

PARAPET DETAILS

NOTES:

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

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

THE #5 S1E AND #5 S2E BARS MAY BE SHIFTED SLIGHTLY IN ORDER TO MAINTAIN A 2" MINIMUM CLEARANCE TO THE ½" EXPANSION JT. MATERIAL IN PARAPET.

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

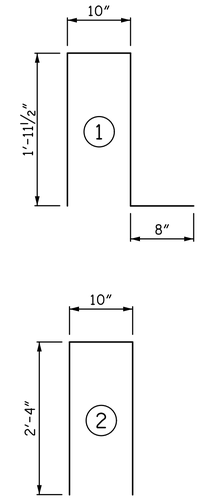
THE JOINTS IN THE DECK AT THE END BENTS SHALL BE SAWED PRIOR TO CASTING OF THE PARAPET.

THE #5 S3E BARS SHALL BE INSTALLED USING AN ASHESIVE ANCHORING SYSTEM, AFTER SAWING OF THE JOINT. LEVEL TWO FIELD TESTING IS REQUIRED AND THE YEILD LOAD FOR THE #5 S3E BARS IS 18.6 KIPS. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE STANDARD SPECIFICATIONS.

GROOVED CONTRACTION JOINTS, ½" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE PARAPET AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN PARAPET 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 ANCHOR ASSEMBLIES, SEE "GUARDRAIL ANCHORAGE DETAILS FOR METAL RAILS" SHEET.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

PARAPET AND END POSTS

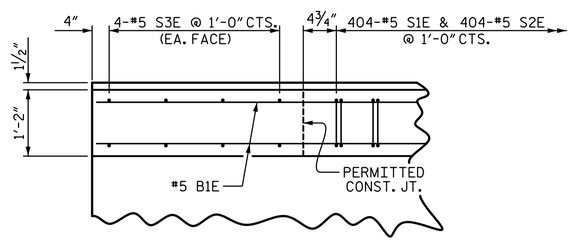
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1E	16	5	STR	13'-6"	225
B2E	96	5	STR	27'-2"	2720
B3E	128	5	STR	28'-5"	3794
E1E	8	7	STR	2'-6"	41
E2E	8	7	STR	3'-0"	49
E3E	8	7	STR	3'-6"	57
E4E	8	7	STR	4'-0"	65
E5E	8	7	STR	4'-4"	71
F1E	8	6	STR	1'-10"	22
F2E	8	6	STR	3'-0"	36
F3E	8	6	STR	3'-8"	44
S1E	808	5	1	5'-5"	4565
S2E	808	5	2	5'-6"	4635
S3E	32	5	STR	3'-0"	100

EPOXY COATED REINFORCING STEEL 16424 LB

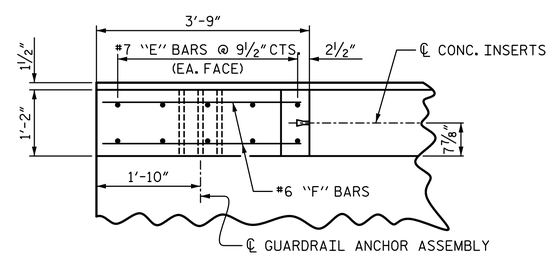
CLASS "AA" CONCRETE BREAKDOWN 89.7 CY

1'-2" X 2'-6" CONCRETE PARAPET 822.8 LF

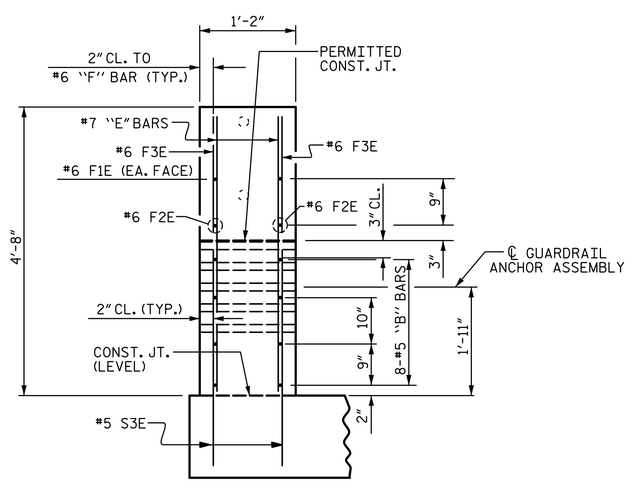
"E" INDICATES EPOXY COATED REINFORCING STEEL



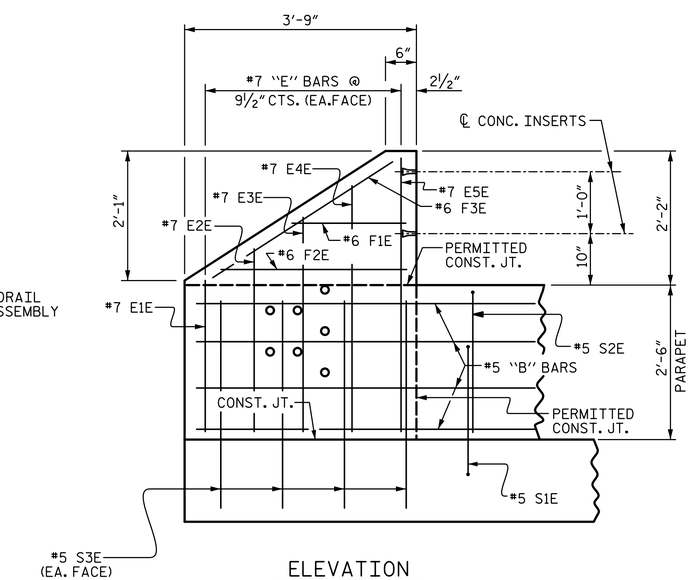
PLAN OF PARAPET



PLAN OF END POST



END VIEW



ELEVATION

PARAPET AND END POST FOR TWO BAR RAIL

PROJECT NO. U-2579B

FORSYTH COUNTY

STATION: 28+50.16 -Y5-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

CONCRETE PARAPET DETAILS

PLANS PREPARED BY:

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LICENSURE NO. C-2521

NORTH CAROLINA PROFESSIONAL SEAL 021908 ENGINEER MARK A. AVERETTE
Digitally signed by Mark A. Averette
8/15/2014

REVISIONS							SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:		S-685
1			3				TOTAL SHEETS
2			4				S-707

DRAWN BY: R. SEALEY DATE: 3-14
CHECKED BY: M. AVERETTE DATE: 3-14
DESIGN ENGINEER OF RECORD: M. AVERETTE DATE: 3-14

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