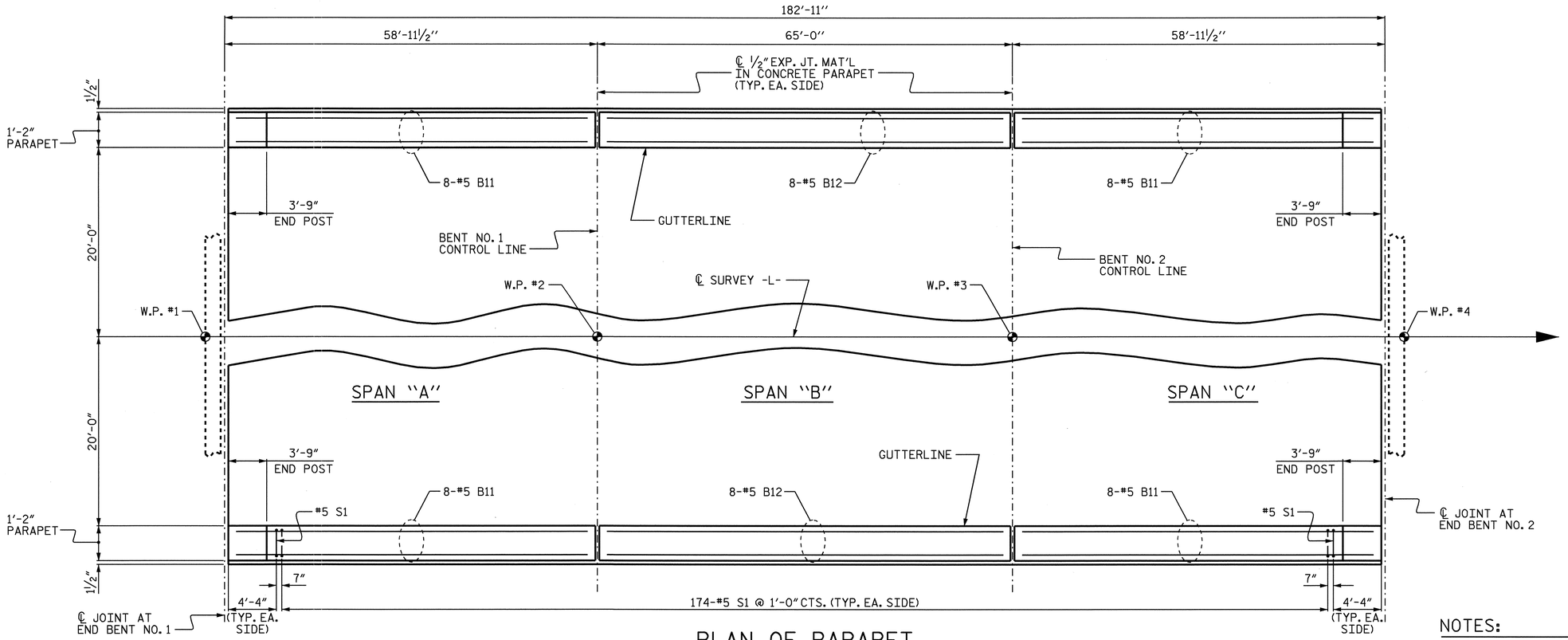


PLAN OF PARAPET

#5 S1 BARS MAY BE SHIFTED SLIGHTLY IN ORDER TO MAINTAIN A 2" MINIMUM CLEARANCE TO THE ½" EXPANSION JOINT MATERIAL IN THE PARAPET.

BILL OF MATERIAL

PARAPETS AND END POSTS

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳B11	32	#5	STR	58'-6"	1952
✳B12	16	#5	STR	64'-7"	1078
✳E1	8	#7	STR	2'-6"	41
✳E2	8	#7	STR	3'-0"	49
✳E3	8	#7	STR	3'-6"	57
✳E4	8	#7	STR	4'-0"	65
✳E5	8	#7	STR	4'-4"	71
✳F1	8	#6	STR	1'-11"	23
✳F2	8	#6	STR	3'-1"	37
✳F3	8	#6	STR	3'-6"	42
✳S1	352	#5	1	7'-0"	2570
✳S2	32	#5	STR	3'-0"	100

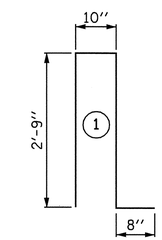
✳EPOXY COATED REINF. STEEL = 6085 LBS

CLASS "AA" CONCRETE 40.4 C.Y.

CONCRETE PARAPET 365.67 L.F.

✳THESE BARS ARE EPOXY COATED

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

NOTES:

PARAPETS IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THE UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

FOR DETAILS OF CONCRETE INSERTS, SEE "RAIL POST SPACING AND END OF RAIL DETAILS" SHEET.

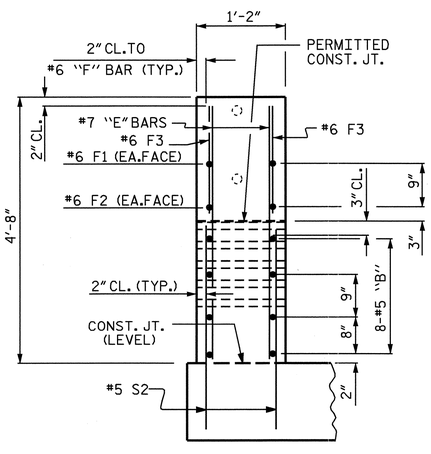
FOR DETAILS OF GUARDRAIL ANCHOR ASSEMBLIES, SEE "GUARDRAIL ANCHORAGE DETAILS FOR METAL RAILS" SHEET.

ALL REINFORCING STEEL IN PARAPETS SHALL BE EPOXY COATED.

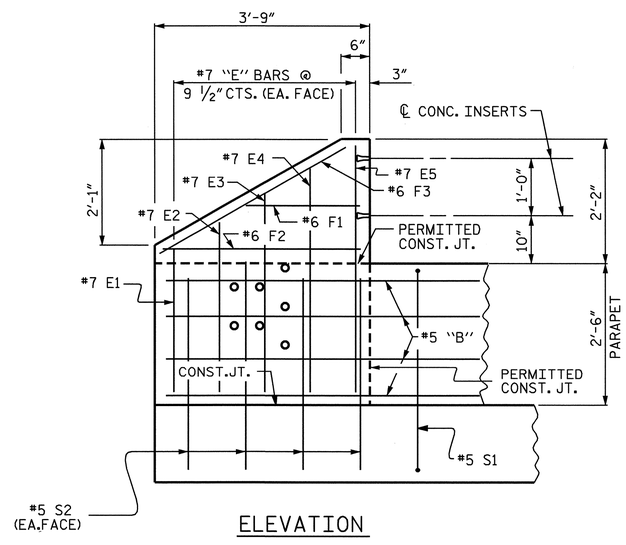
THE REINFORCING STEEL MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR THE ANCHOR ASSEMBLY FOR 2 BAR METAL RAIL.

THE #5 S2 BARS SHALL BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM AFTER SAWING THE JOINT. FOR ADHESIVELY ANCHORED BOLTS OR DOWELS, SEE SPECIAL PROVISIONS. THE YIELD LOAD OF THE #5 S2 BARS IS 18.6 KIPS. FIELD TESTING OF THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

THE JOINT IN DECK SHALL BE SAWED PRIOR TO THE CASTING OF THE PARAPET.

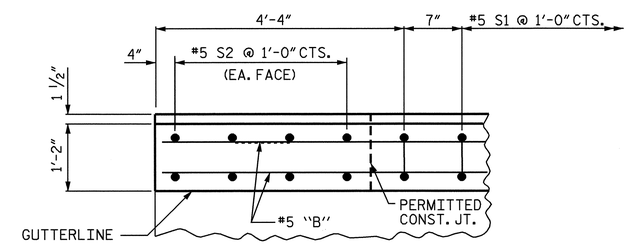


END VIEW

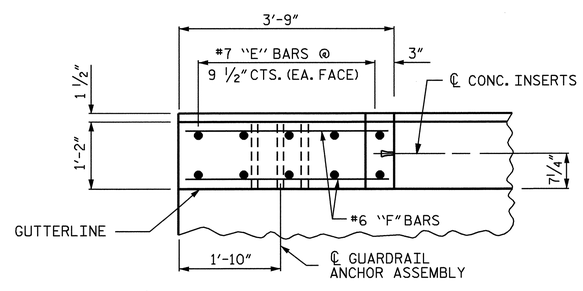


ELEVATION

PARAPET AND END POST FOR TWO BAR RAIL



PLAN OF PARAPET



PLAN OF END POST

PROJECT NO. B-3623

CABARRUS COUNTY

STATION: 18+37.50 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

CONCRETE PARAPET DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 10757 ENGINEER ROBERT C. OUTLAW, JR.
12/12/03

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			34

DRAWN BY : P.C. BREWER DATE : 4/29/03
CHECKED BY : S.B. WILLIAMS DATE : 5/13/03