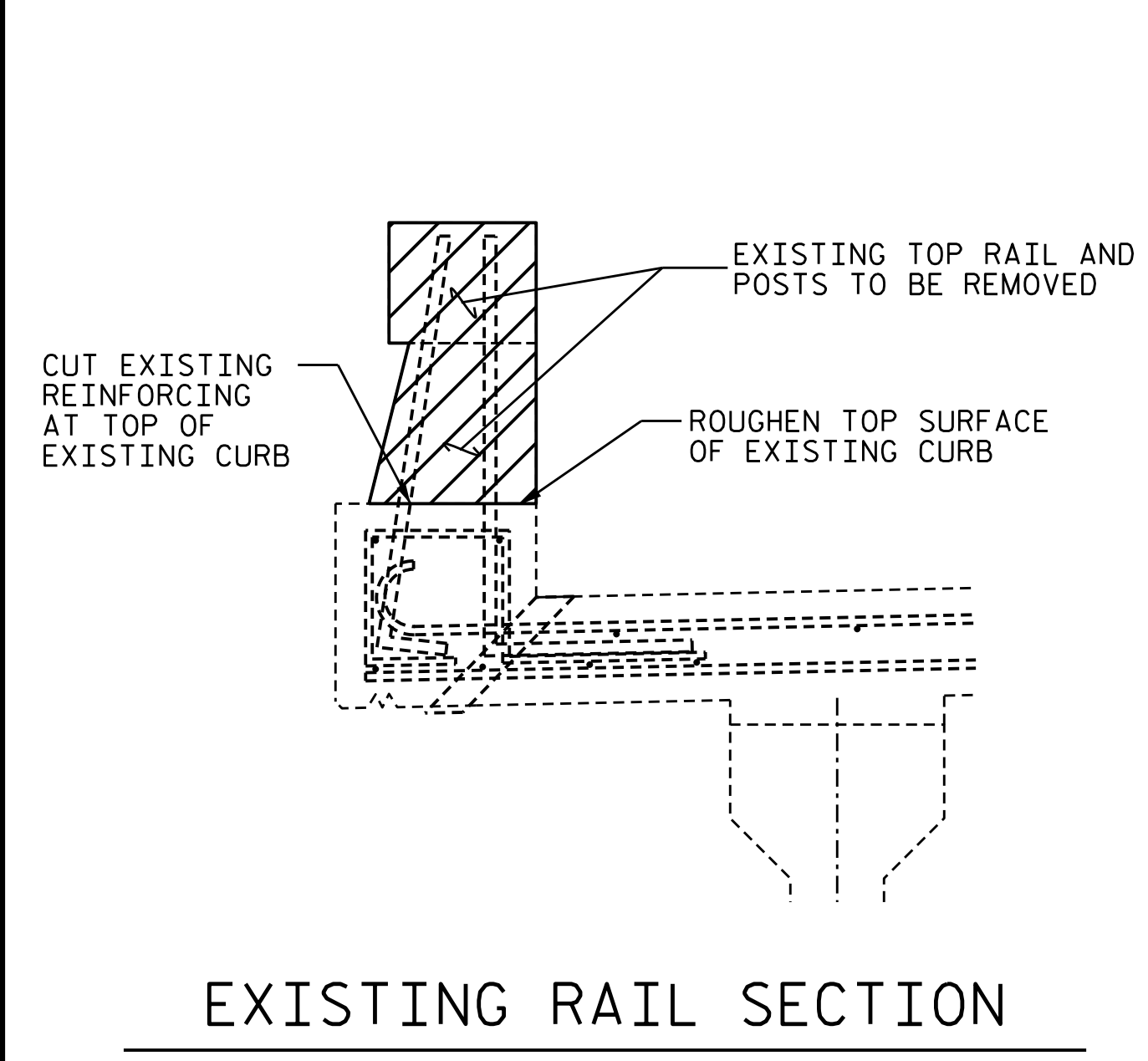


AS-BUILT QUANTITY TABLE

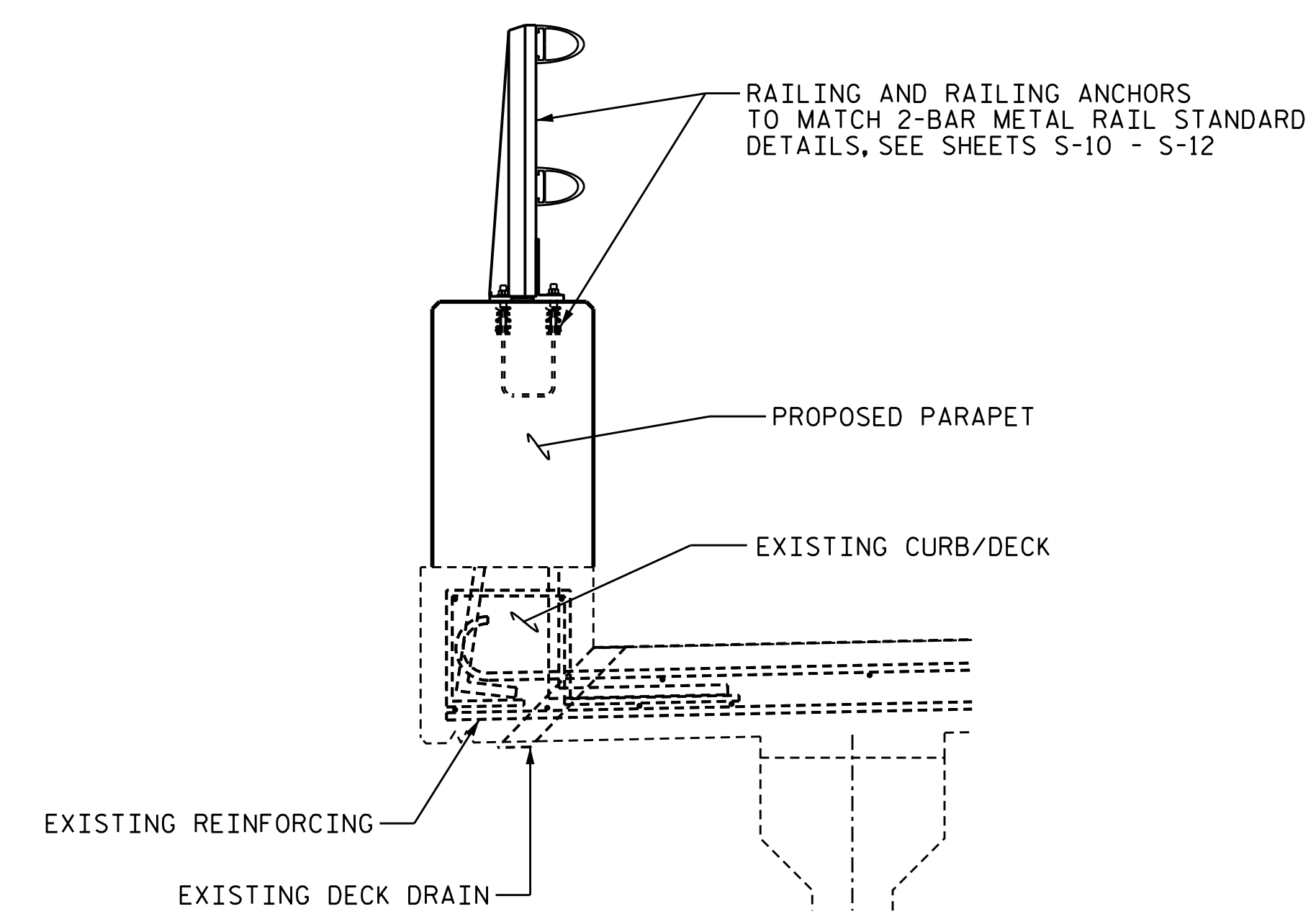
	ESTIMATE	ACTUAL
RAIL REMOVAL (SPANS 29-65)	6126 LF	

NOTES:

- FOR 2-BAR METAL RAIL RETROFIT, SEE SPECIAL PROVISIONS.
- COORDINATE THIS SHEET WITH INFO ON THE SHEET FOR ELECTRICAL REPAIRS TO THE NAVIGATIONAL LIGHT SYSTEM, SHEET S-29.
- COORDINATE THIS SHEET WITH INFO ON THE SHEETS FOR THE 2-BAR METAL RAIL IN SPANS 1-28, SHEETS S-10 THRU S-12.
- CARE MUST BE TAKEN WHEN INSTALLING NEW DOWELS AS TO NOT DISTURB THE TRANSVERSE DECK BAR. TRANSVERSE DECK BARS ARE SPACED AT 5/2" CENTERS BASED ON THE BEST INFORMATION AVAILABLE. IF REINFORCING IS ENCOUNTERED, SHIFT HOLE TO CLEAR.
- ALL REINFORCING STEEL IN THE PROPOSED 2-BAR METAL RAIL PARAPET IN SPANS 29-65 SHALL BE EPOXY COATED.
- GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINT. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.
- FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
- FOR ADHESIVELY ANCHORED DOWELS, SEE ARTICLE 420-13 OF THE STANDARD SPECIFICATIONS.

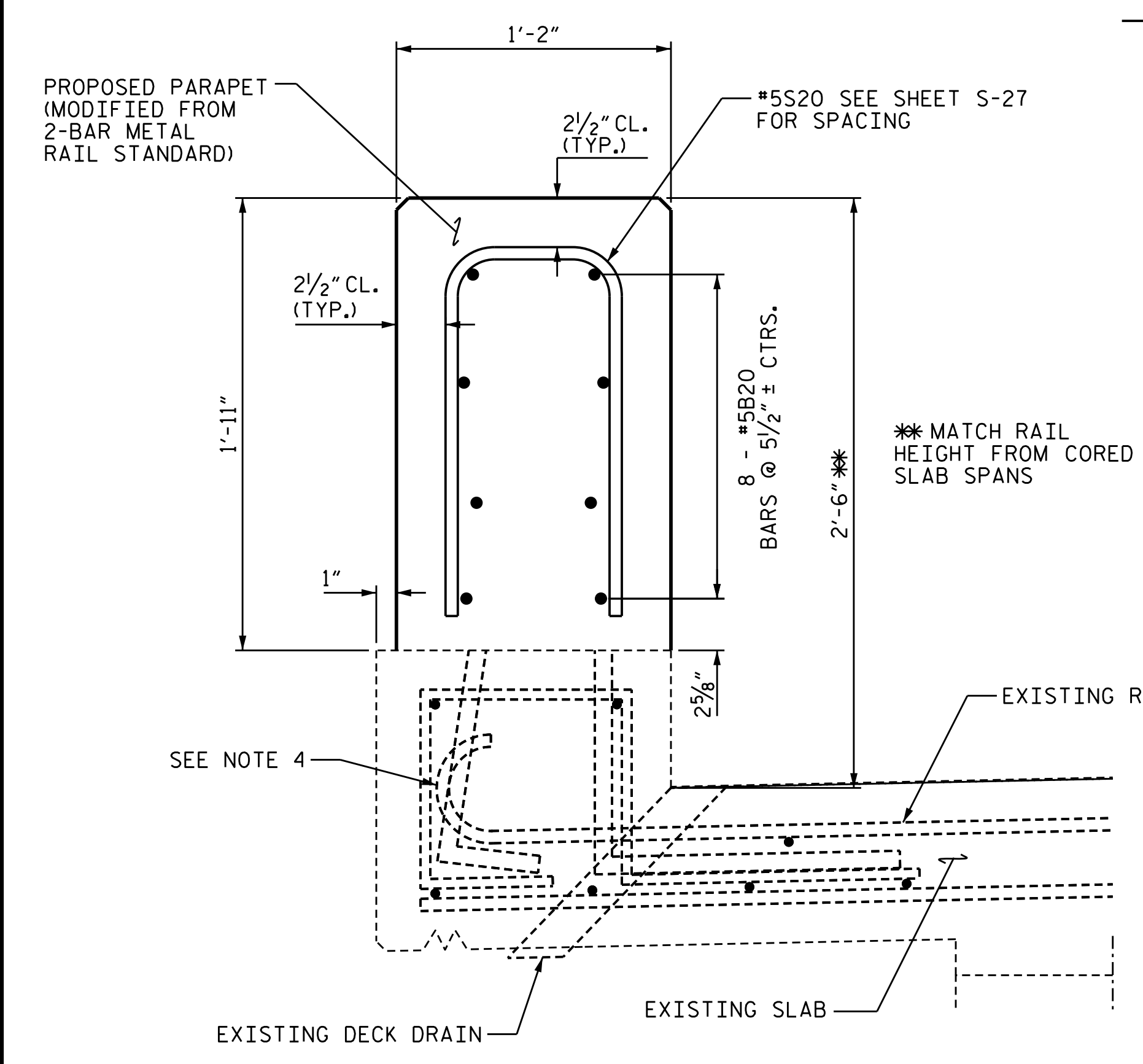
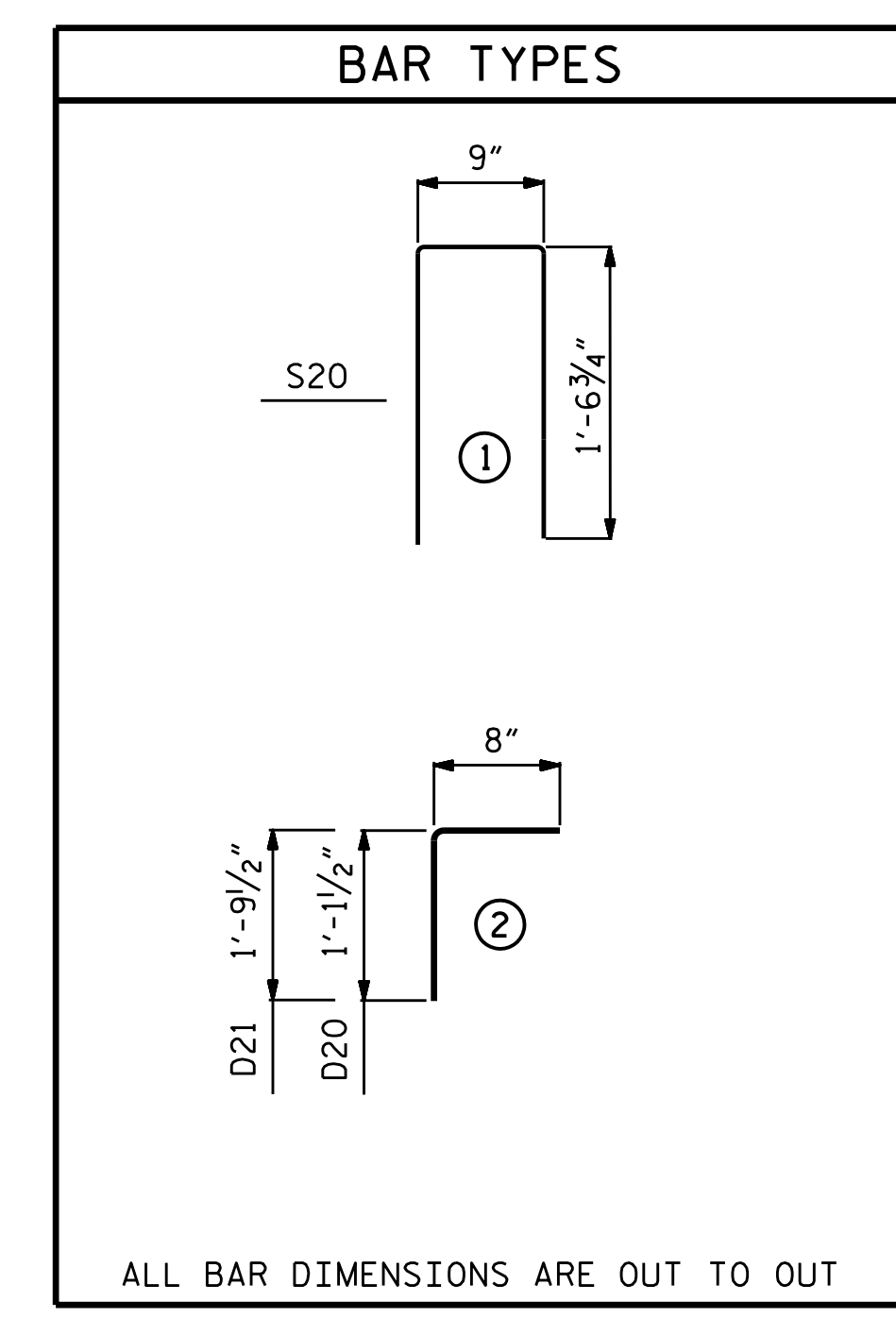


EXISTING RAIL SECTION



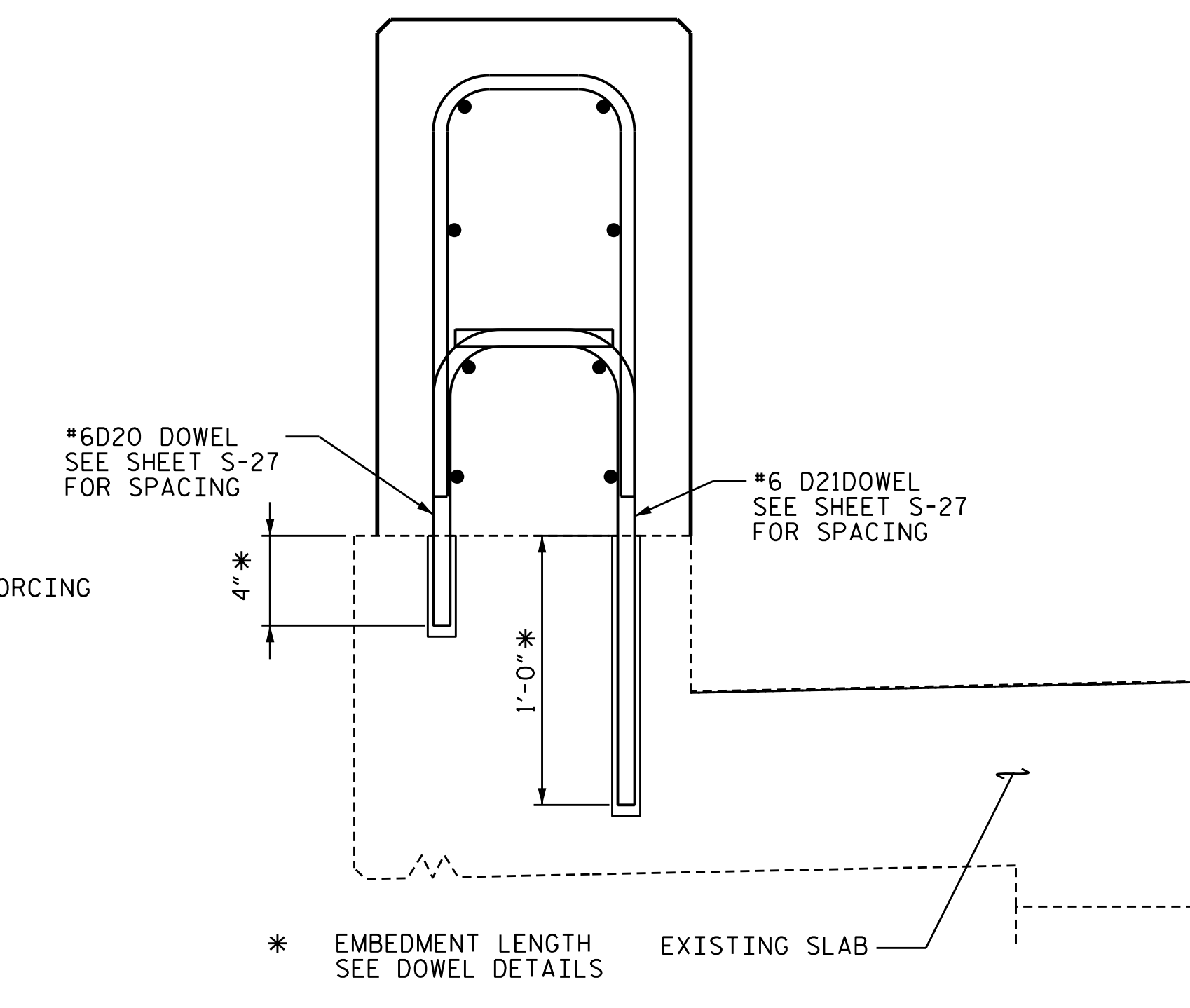
PROPOSED RAIL SECTION (1 OF 3)

(REINFORCING NOT SHOWN FOR CLARITY)



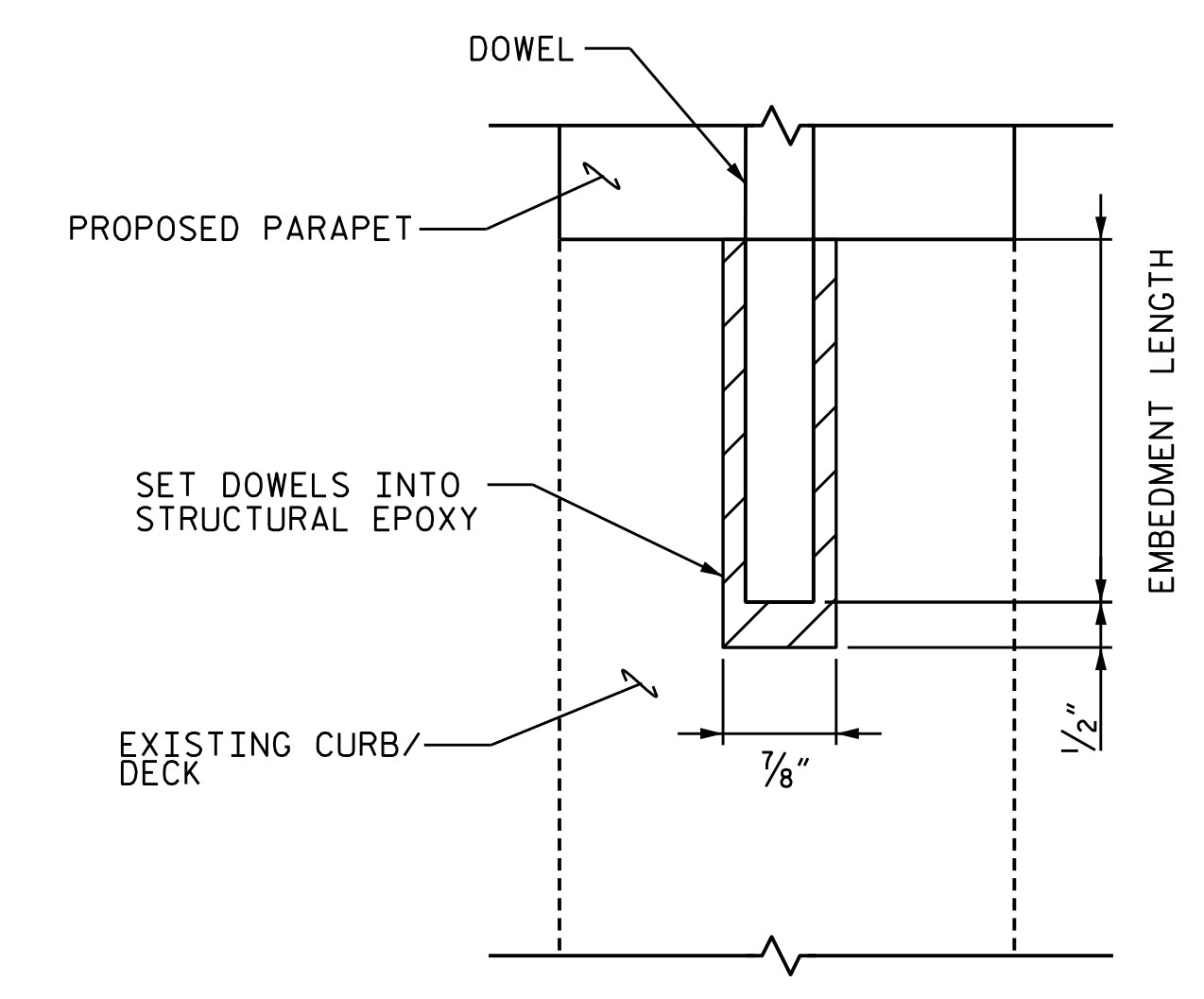
PROPOSED RAIL SECTION (2 OF 3)

(2-BAR RAIL NOT SHOWN FOR CLARITY)
(DOWELS NOT SHOWN FOR CLARITY)



PROPOSED RAIL SECTION (3 OF 3)

(2-BAR RAIL NOT SHOWN FOR CLARITY)
(EXISTING REINFORCING NOT SHOWN FOR CLARITY)

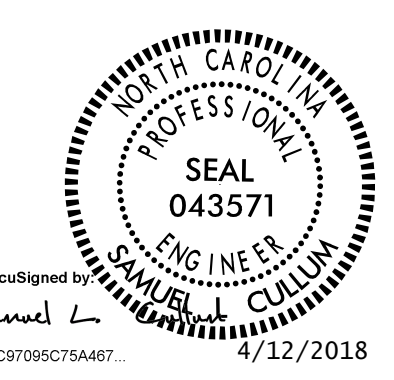


DOWEL DETAILS

PROJECT NO. 15BPR.25
BRUNSWICK COUNTY
BRIDGE NO. 14

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
BRIDGE RAIL RETROFIT
SPANS 29-65



KCA 4800 SIX FORKS ROAD SUITE 120
KISINGER CAMPO & ASSOCIATES RALEIGH, NC 27609
(919) 882-7839

DRAWN BY :	JACOB H. DUKE	DATE :	03-2018
CHECKED BY :	AARON J. MCMILLAN	DATE :	03-2018
DESIGN ENGINEER OF RECORD :	SAMUEL L. CULLUM	DATE :	03-2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-25
1			3			TOTAL SHEETS 111
2			4			