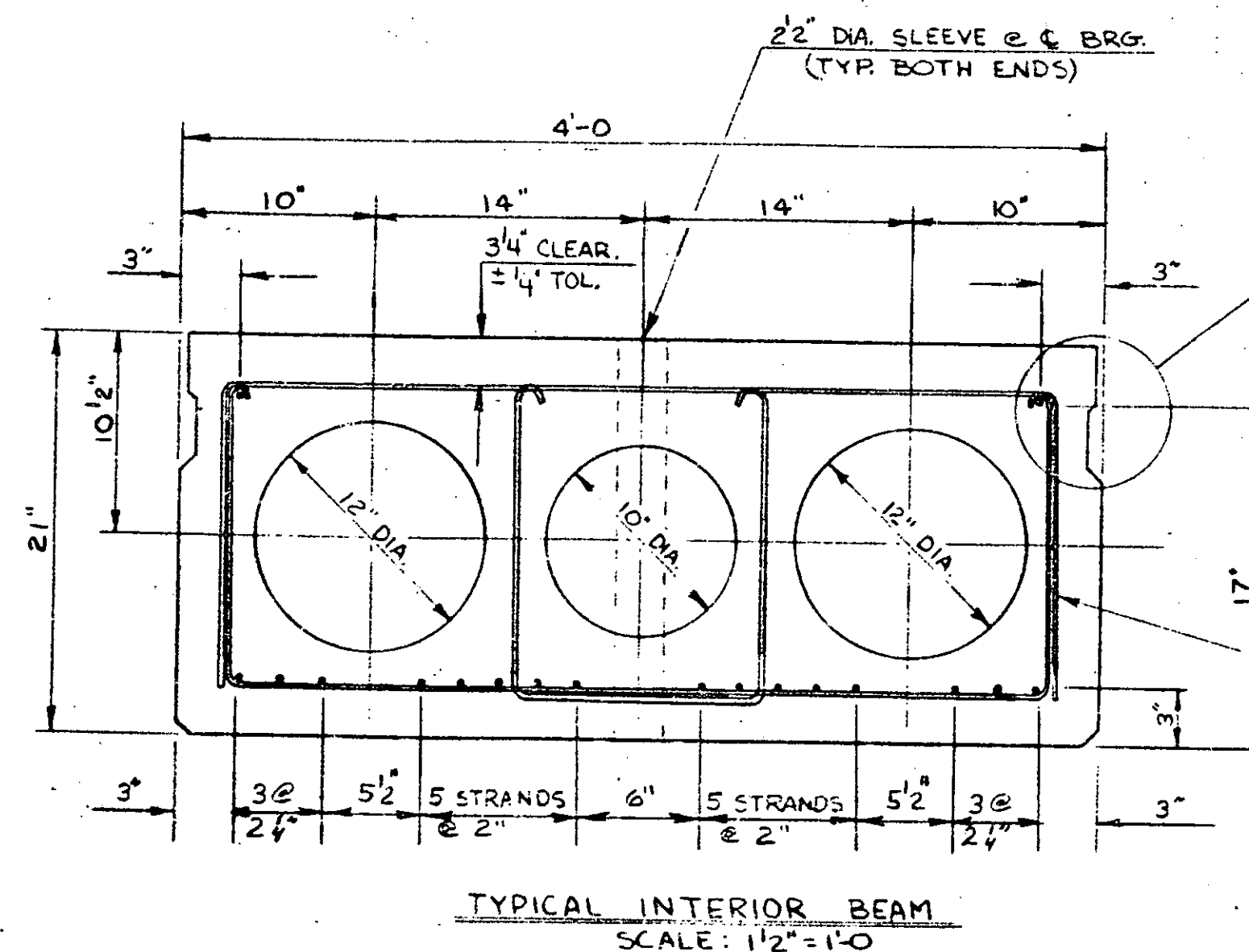
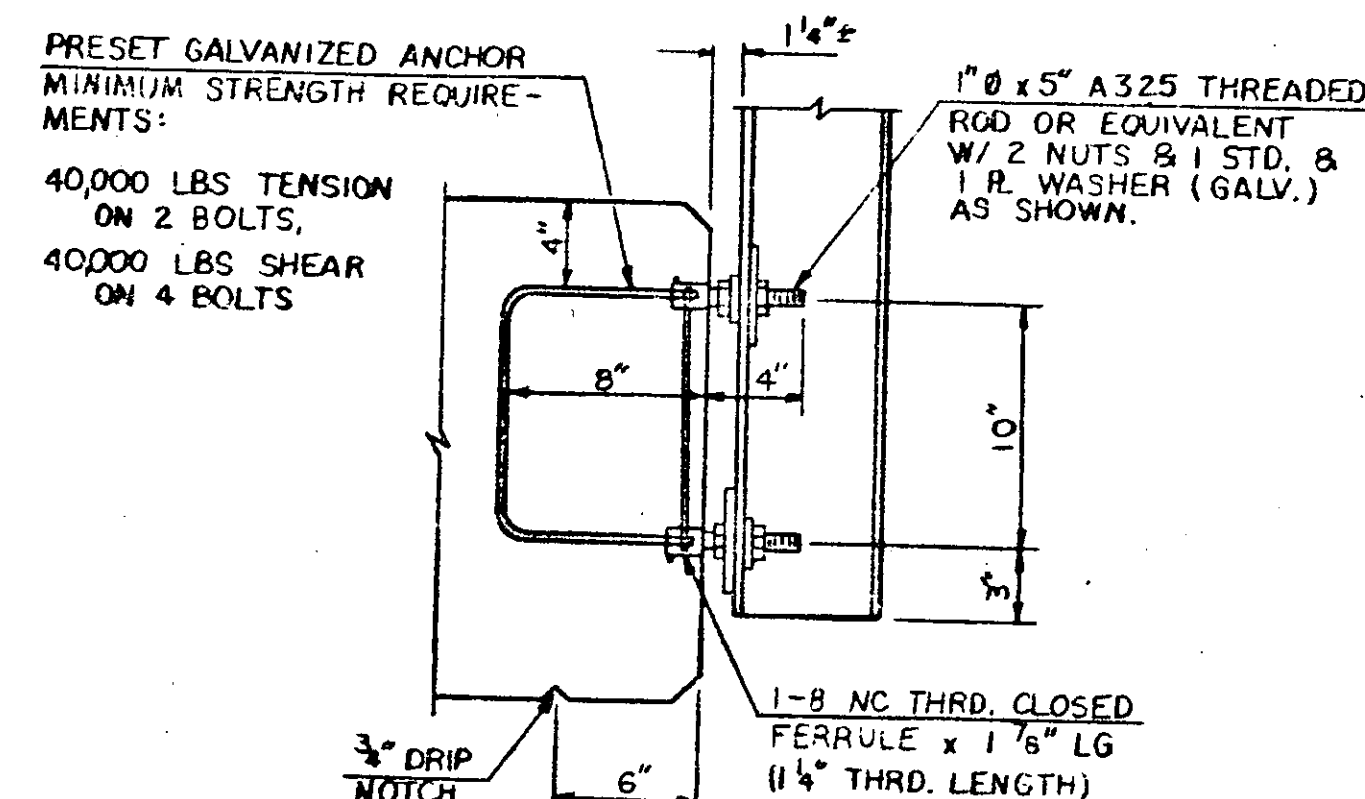
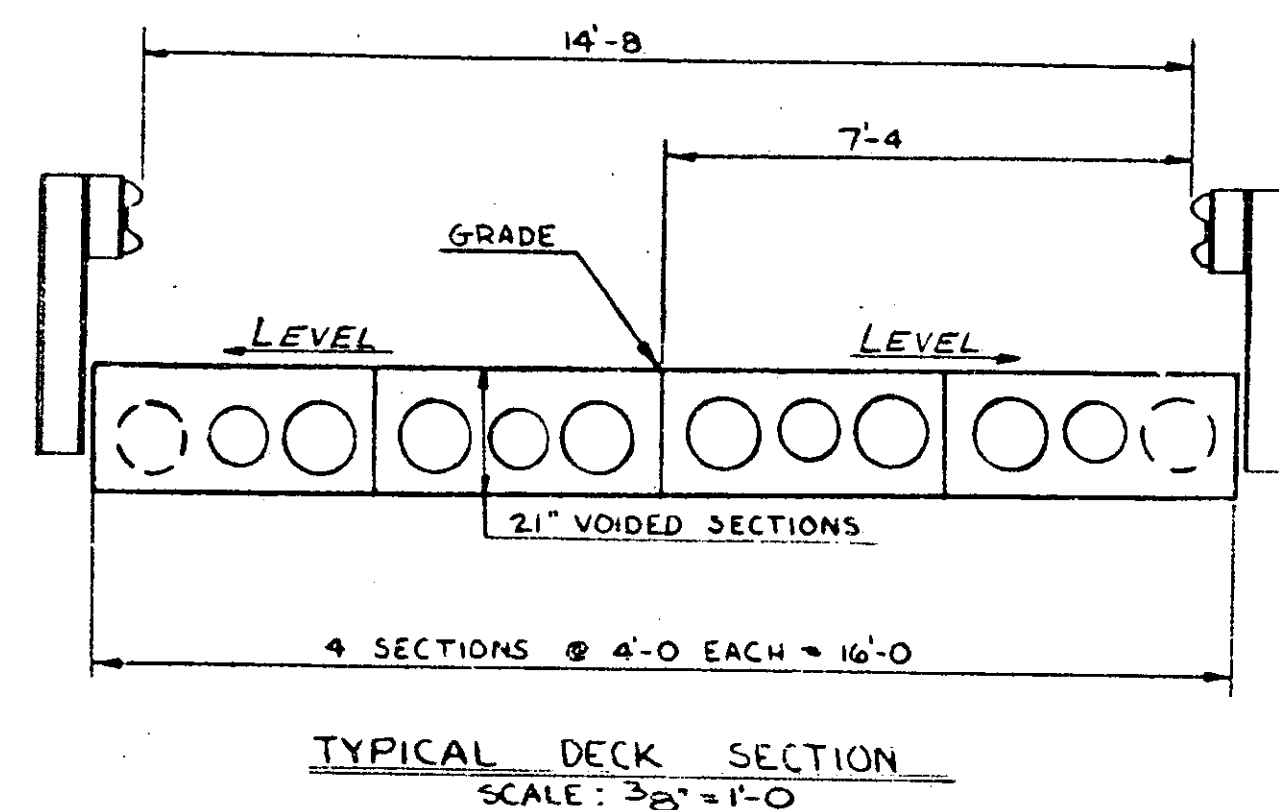
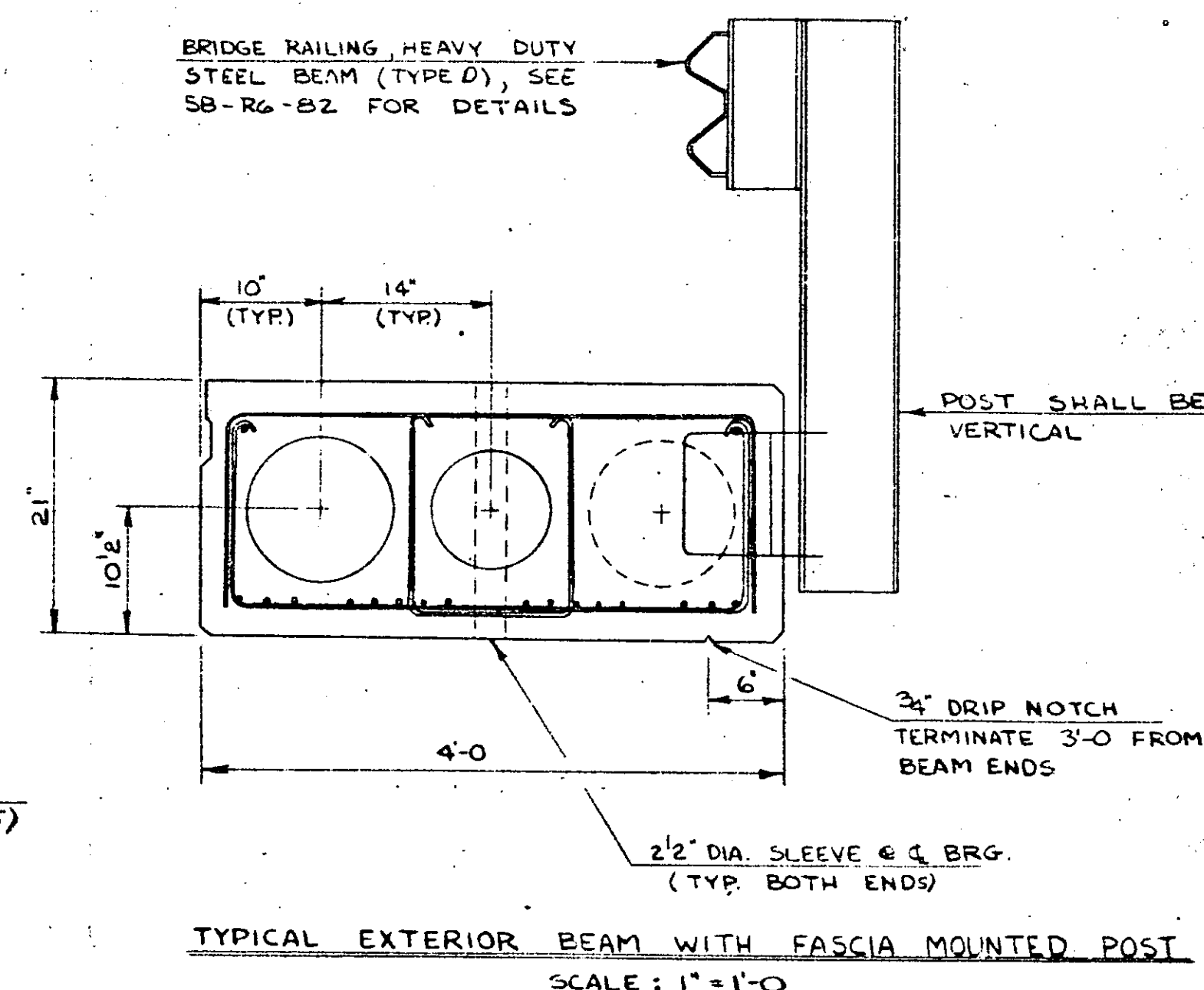
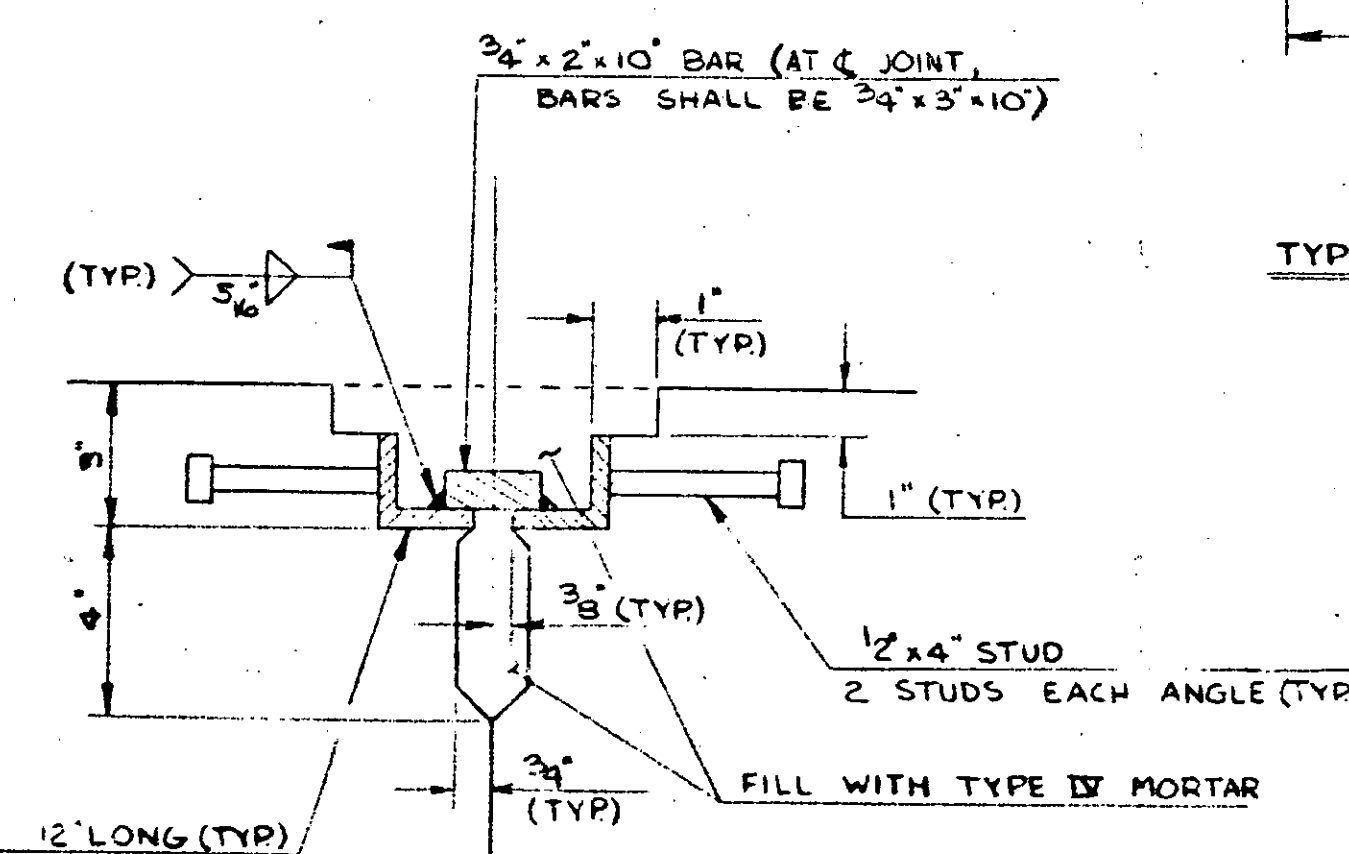
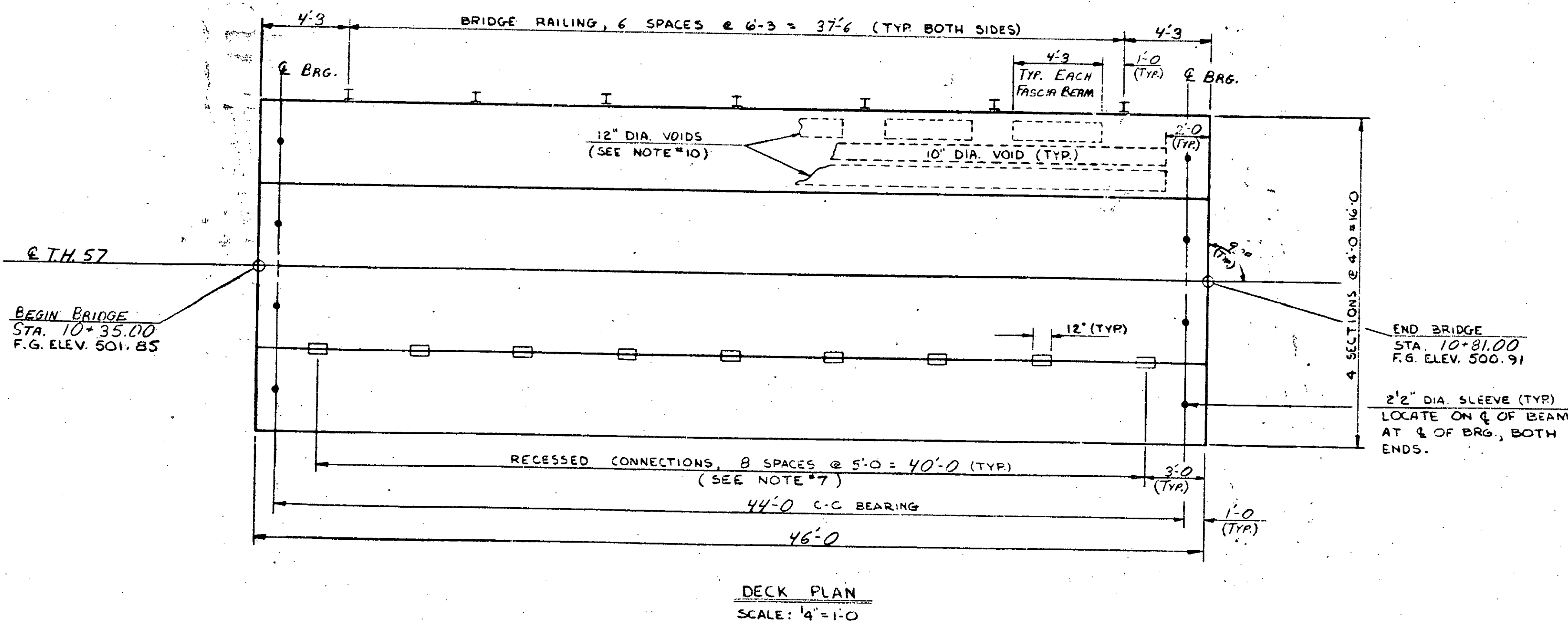




DESIGN DATA: HS-20 LOADING
 LL+I MOMENT = 241.7 K-FT
 LL+I REACTION = 26.9 K
 DL MOMENT = 177.2 K-FT
 SDL MOMENT = 12.1 K-FT
 TOTAL STRANDS = 18
 E = 5.99



PRESTRESSED BEAM DATA
 MINIMUM CONCRETE STRENGTH: $f'_c = 5000$ PSI @ 28 DAYS
 CONCRETE STRENGTH @ STRESS TRANSFER: $f'_ci = 4000$ PSI
 OVERALL LENGTH: 46'-0"
 THE FABRICATOR MAY AT HIS OPTION ALTER THE DESIGN SHOWN ABOVE TO MEET HIS PRESTRESSING OPERATION AND MATERIAL REQUIREMENTS.
 ALL DESIGN COMPUTATIONS MUST BE FURNISHED TO THE AGENCY IN ACCORDANCE WITH ITEM 510.20, PRESTRESSED CONCRETE MEMBERS (SIX-48, 21-45)



- NOTES
1. THE TOPS OF PRESTRESSED BEAMS SHALL BE SCREED FINISHED.
 2. REINFORCING STEEL IN PRESTRESSED UNITS SHALL BE GRADE 40.
 3. 1"x6"x4'-0" BEARING PADS SHALL MEET REQUIREMENTS OF SECTION 731.
 4. PRESTRESSING STEEL SHALL BE 1/2" INCH DIA., 270 KSI, SEVEN WIRE STRAND, AND CONFORM TO ASTM A416.
 5. ENDS OF PRESTRESSING STRANDS SHALL BE RECESSED AND GROUTED AS PER STANDARD PRACTICE.
 6. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
 7. RECESSED CONNECTIONS SHALL BE OMITTED FROM EXTERIOR FACES OF OUTSIDE BEAMS.
 8. ADJACENT PRESTRESSED BEAMS SHALL BE BROUGHT INTO AS CLOSE CONTACT AS POSSIBLE PRIOR TO MAKING WELDED CONNECTION. AN ALTERNATE CONNECTION SYSTEM MAY BE SUBMITTED FOR APPROVAL.
 9. 8"x6"x4'-0" BEARING PADS SHALL BE USED AS SHIMS, IF REQUIRED, TO COMPENSATE FOR ANY VARIATION IN CAMBER OF THE BEAMS, AND THEREBY PROVIDE A MORE UNIFORM RIDING SURFACE. SEE VT. STD. SPEC. 731.01 & 731.02.
 10. ALL VOIDS SHALL BE CONTINUOUS AND TERMINATE 2'-0" FROM THE ENDS OF THE BEAMS, EXCEPT THE OUTSIDE VOIDS OF THE FASCIA BEAMS WHICH SHALL BE SPACED AS SHOWN TO PROVIDE SUFFICIENT ANCHORAGE FOR THE BRIDGE RAILING.
 11. REINFORCING AND PRESTRESSING STEEL SHALL BE IDENTICAL IN INTERIOR AND EXTERIOR BEAMS.
 12. NO PAYMENT SHALL BE MADE FOR THE TYPE IV MORTAR GROUT, WHICH SHALL BE CONSIDERED SUBSIDIARY TO ITEM 510.20.

STATE OF VERMONT	
AGENCY OF TRANSPORTATION	
TOWN OF CHESTER	Bridge No. 69
HIGHWAY NO. T.H. 57	Log Sta. 10+50
T.H. 57 OVER MIDDLE BRANCH WILLIAMS RIVER	
SUPERSTRUCTURE DETAILS	
Designed by C. BENDA	Drawn by D. WILLEY
Checked by G. SCHELLEY date 9/83	Bridge Design Supervisor R.L. Oatley date 11-83
PROJECT CHESTER	PROJECT NO. BRZ 1442 (2)
Bridge Sheet No. 9	Sheet 9 of 32