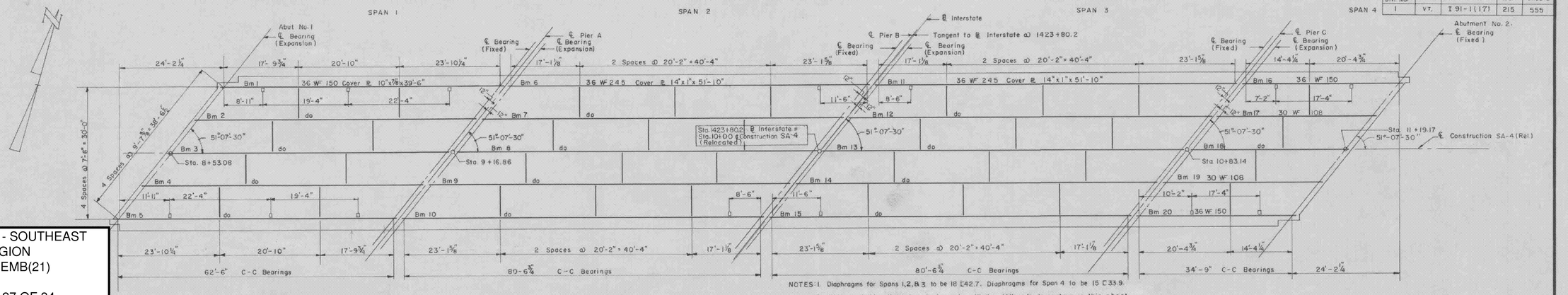
| B.R.R. DIV. NO. | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | VT. | I 91-1(17) | 215 | 555 |

STATEWIDE - SOUTHEAST
REGION
BHF MEMB(21)

SHEET 27 OF 34
BRIDGE D19
FOR REFERENCE ONLY

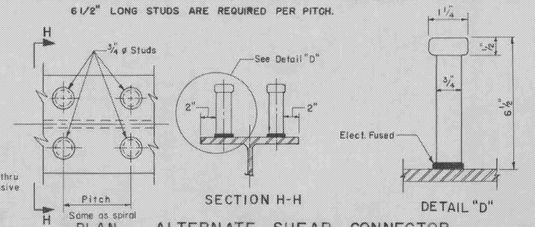



## FRAMING PLAN

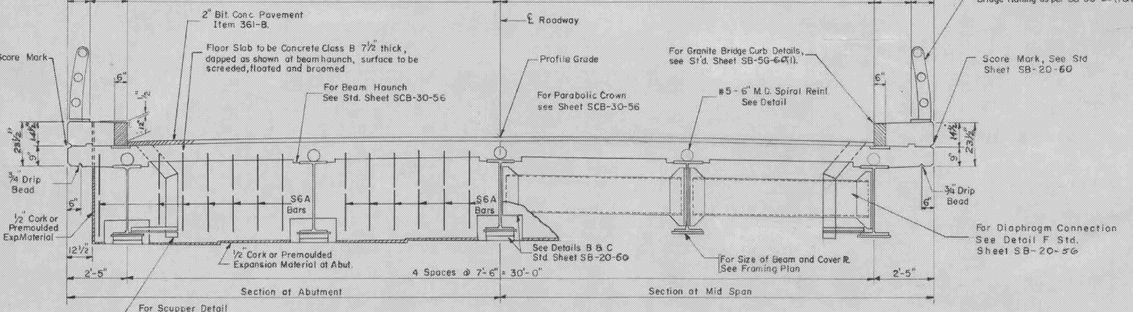
Scale : 3/32" = 1'-0"

NOTES: 1. Diaphragms for Spans 1,2,&3 to be 18 L42.7. Diaphragms for Span 4 to be 15 L33.9.
2. All beams shall be rolled to true circular camber with the middle ordinate as shown on this sheet.
3. All dimensions are horizontal dimensions.
4. Cut flanges as per Standard Sheet No. SB-22-58
5. For Bearing Details, see Standard Sheet No. SB-20-58
6. For Cover ℄ Details, see Standard Sheet No. SB-30-56.
7. All beams and cover plates shall conform to A.S.T.M. Designation A 373. All other structural steel shall conform to Designation A7 or A 373.
8. Use self-lubricating plates at the expansion bearings of spans 2 & 3.

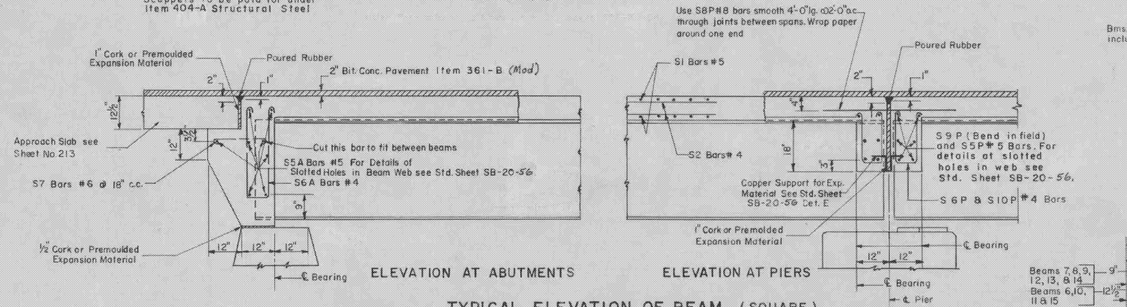
NOTE: WHERE A DOUBLE SPIRAL IS CALLED FOR IN THE SCHEDULE (4) FOUR 6 1/2" LONG STUDS ARE REQUIRED PER PITCH.



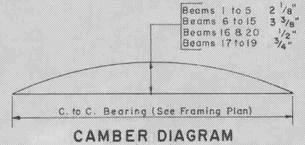

ALTERNATE SHEAR CONNECTOR
No Scale



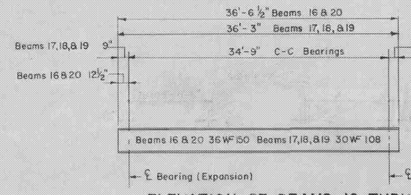

TYPICAL CROSS SECTION
Scale : 3/8" = 1'-0"



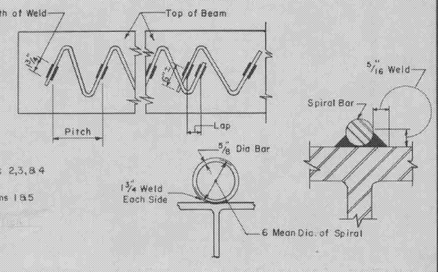

TYPICAL ELEVATION OF BEAM (SQUARE)
Scale : 1/2" = 1'-0"




CAMBER DIAGRAM
NO Scale



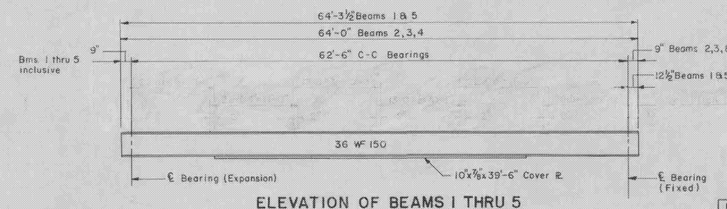

ELEVATION OF BEAMS 16 THRU 20



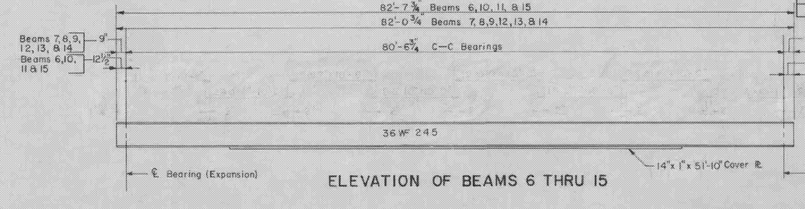

SPIRAL WELDING DETAILS
No Scale

SPIRAL SCHEDULE

| LENGTH OF SPAN | 39' | 64' | 84' |
|---|---|---|---|
| SPIRAL PITCH 0'-10' FROM BRNG. | DOUBLE @ 5" | DOUBLE @ 5" | DOUBLE @ 5 1/2" |
| " " 10'-20' OR ℄ SPAN | 4" | DOUBLE @ 6 1/2" | DOUBLE @ 6 1/2" |
| " " 20'-30' OR ℄ SPAN | | 5" | 4" |
| " " 30'-40' OR ℄ SPAN | | 7 1/2" | 5 1/2" |
| " " 40' ℄ SPAN | | | 8" |




ELEVATION OF BEAMS 1 THRU 5




ELEVATION OF BEAMS 6 THRU 15

STAGE I CONSTRUCTION

## STRUCTURAL STEEL PLAN AND DETAILS

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
INTERSTATE PROJECT in the town of
WESTMINSTER
INTERSTATE STA. 1423+80.2
UNDER
SA-4 (RELOCATED) STA. 10+00

THE CLARKESON ENGINEERING CO. INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

| SURVEYED BY | CHECKED BY DS-R SB. | SCALE AS NOTED |
|---|---|---|
| DRAWN BY C.K.L. | IN CHARGE J.V.B. | DATE 12-6-57 |

PROJECT NO. I 91-1(17) SHEET 41 OF 149

CONTRACT NO. 1

ESTIMATED QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | SUPERSTRUCTURE NET | OVER-RUN | TOTAL | FINAL |
|---|---|---|---|---|---|---|
| 361-B | Bituminous Concrete Pavement (Mod.) | Tons | 102 | 15 | 117 | |
| 401-B | Concrete Class B (Mod.) | C.Y. | 300 | 15 | 315 | |
| 402 | Reinforcing Steel | LBS. | See Reinforcing Schedule | | | |
| 403 | Spiral Reinforcement (8,000 LB.) | L.S. | 1 | - | 1 | |
| 404-A | Structural Steel | LBS. | 353,375 | 7,065 | 360,440 | |
| 318 | Tar Emulsion for Bridge Floors | Gal. | 443 | - | 443 | |
| 312 | Joint Sealer, Hot-poured El. Type | L.F. | 193 | - | 193 | |