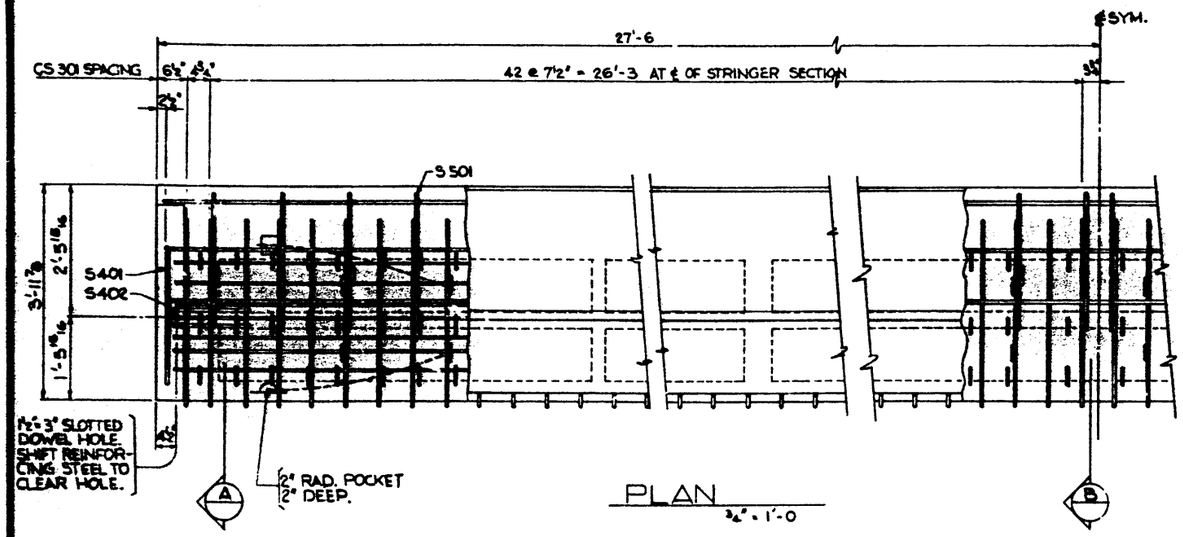
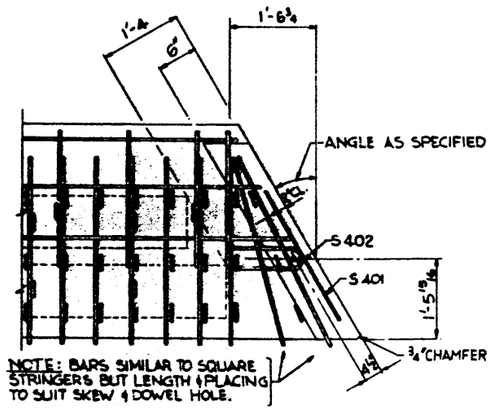
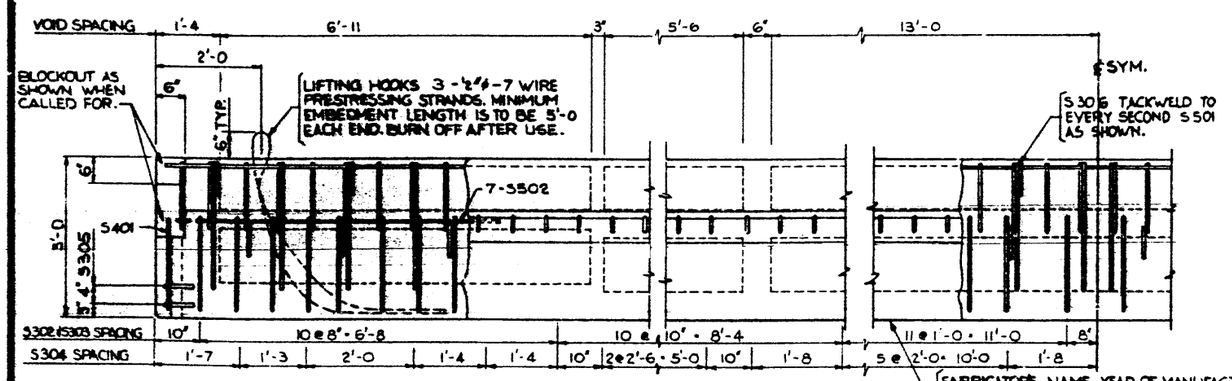


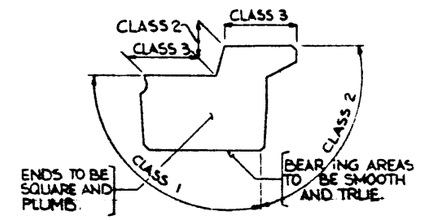

PLAN
¾" = 1'-0



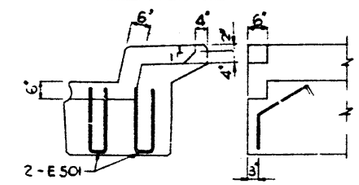

SKEWED END STEEL
¾" = 1'-0



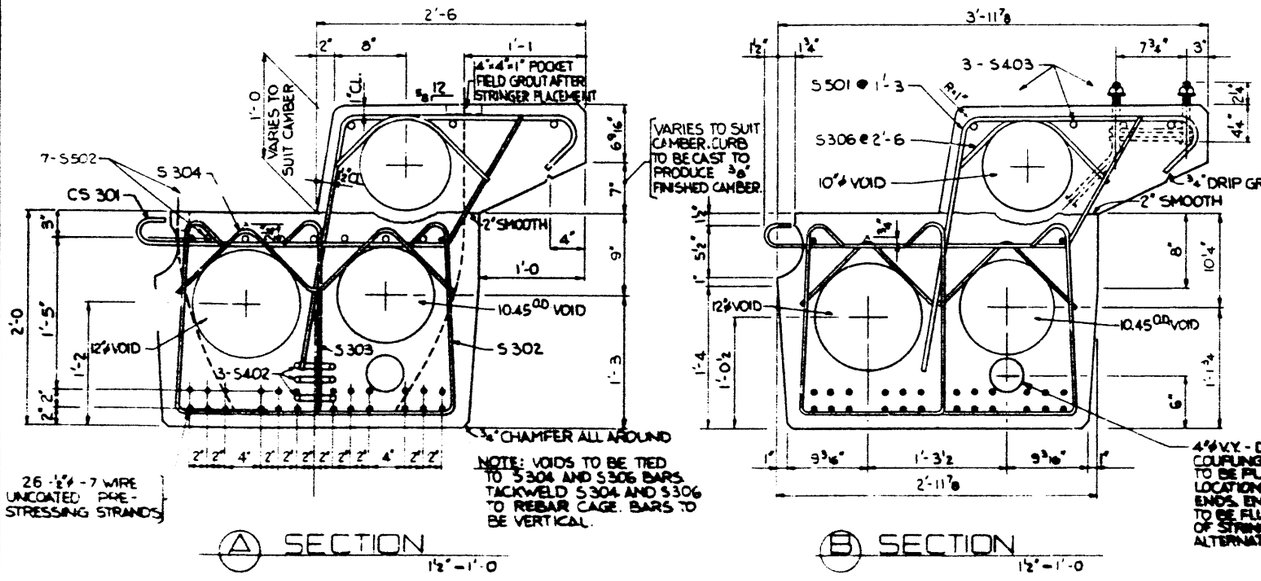

ELEVATION
¾" = 1'-0




STRINGER FINISHES

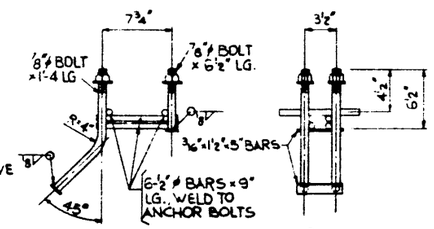



END BARS AND BLOCKOUT
½" = 1'-0




A SECTION
½" = 1'-0

B SECTION
½" = 1'-0




ANCHOR BOLTS c/w HEX. NUTS AND 3/16" WASHERS. ANCHOR BOLT ASSEMBLIES ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH A.S.T.M. SPEC. A - 153.

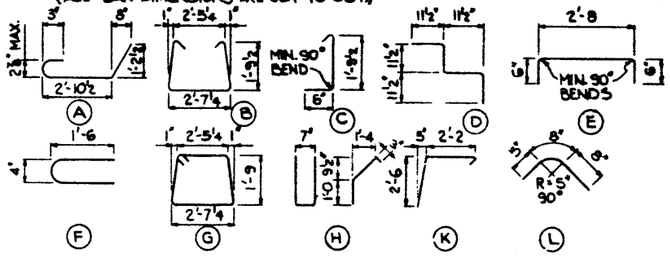
ANCHOR BOLT ASSEMBLY
½" = 1'-0

## BAR LIST

| MARK | SIZE | NO. | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| CS 301 | 3 | 88 | A | 4'-7 | 152 |
| S 302 | 3 | 64 | B | 8'-10 | 164 |
| S 303 | 3 | 64 | C | 2'-7 | 62 |
| S 304 | 3 | 30 | D | 3'-10 | 43 |
| S 305 | 3 | 4 | E | 3'-8 | 6 |
| S 306 | 3 | 22 | L | 1'-9 | 14 |
| S 401 | 4 | 2 | G | 9'-4 | 12 |
| S 402 | 4 | 6 | F | 8'-2 | 13 |
| S 403 | 4 | 6 | STR. | 28'-0 | 112 |
| S 501 | 5 | 44 | K | 5'-2 | 237 |
| E 501 | 5 | 4 | H | 6'-2 | 28 |
| S 502 | 5 | 14 | STR. | 6'-0 | 88 |
| | | | | TOTAL: | 929 |

## BAR TYPES N.T.S.

(ALL BAR DIMENSIONS ARE OUT TO OUT.)




## GENERAL NOTES:

**DESIGN:**

- A.A.S.H.O. 1969 SPECIFICATIONS PLUS INTERIMS TO 1972, EXCEPT ALLOWABLE FINAL CONCRETE STRESS = 420 P.S.I. IN TENSION IN PRECOMPRESSED TENSILE ZONE.
- LOADING: 3/5 OF ONE WHEEL LINE OF AN HS 20-44 TRUCK PLUS FULL DEAD LOAD PLUS 2" WEARING SURFACE.

**MATERIALS:**

- CONCRETE SHALL BE OF STANDARD WEIGHT AGGREGATE WITH A MAXIMUM SIZE OF ¾". MINIMUM COMPRESSIVE STRENGTH SHALL BE 5,000 P.S.I. AT 28 DAYS. AIR ENTRAINMENT SHALL BE NOT LESS THAN 5%.
- PRESTRESSING STEEL SHALL BE ½" DIAMETER - 7WIRE 270 K STRAND.

**FABRICATION:**

- REINFORCEMENT: DIAMETERS OF ALL BENDS AND DETAILS OF ALL HOOKS UNLESS OTHERWISE NOTED SHALL CONFORM TO THE RECOMMENDED SIZES DETAILED IN THE A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
- PRESTRESSING STEEL: INITIAL TENSIONING LOAD = 28.91 K/STRAND
  DESIGN LOAD = 23.0 K/STRAND
- CONCRETE SHALL ATTAIN 4000 P.S.I. COMPRESSIVE STRENGTH BEFORE THE PRESTRESSING FORCE IS TRANSFERRED.
- ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN STRINGER AT SPACINGS AS REQUIRED.
- STRINGERS SHALL CONFORM TO THE REQUIREMENTS OF THE BRIDGE BRANCH SPECIFICATIONS FOR PRESTRESSED CONCRETE BRIDGE UNITS.
- THE SURFACE OF GROUT KEYS AND END BLOCKOUTS SHALL BE SANDBLASTED.
- ALTERNATE HOLD DOWN DEVICES FOR PLACEMENT OF VOIDS WILL BE CONSIDERED.

**ERECTION:**

- LIFTING FORCE AT EACH HOOK MUST BE NOT MORE THAN 35° FROM THE VERTICAL LINE AT ALL TIMES. STRINGER SURFACE MUST BE LEVEL AT ALL TIMES.

4

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS

APPROVED

CHIEF BRIDGE ENGINEER

DATE

PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS AND TRANSPORT
BRIDGE BRANCH

# PRESTRESSED CONCRETE 55 FT. SPAN TYPE "M" CURB STRINGER

| DESIGNED | DRAWN BY | DATE | CHECKED BY | DATE | STREAM | LOCATION | MAP NO. | SCALE | FILE NO. | SHEET OF | DWG. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D.H. QUAPP E.B.J. | L.STANLEY | JAN 1973 | | | | | | | | | S-795-73 |

MP 204