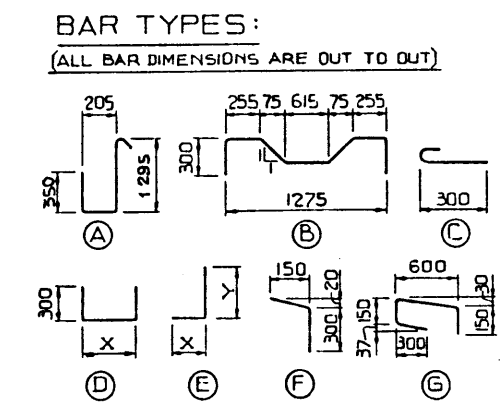


BAR LIST : FOR UNSKEWED GIRDER.

| MARK | SIZE | NO. | TYPE | X | Y | LENGTH | MASS |
|-----------------|------|-----|------|------|-----|--------|--------------|
| G1001 | 10 | 396 | C | | | 430 | 134 |
| G1002 | 10 | 151 | B | | | 1940 | 230 |
| G1003 | 10 | 362 | A | | | 1950 | 554 |
| G1004 | 10 | 8 | STR. | | | 600 | 4 |
| G1501 | 15 | 24 | STR. | | | 9730 | 367 |
| G1502 | 15 | 302 | STR. | | | 1435 | 680 |
| G1503 | 15 | 10 | E | 450 | 450 | 900 | 14 |
| G2001 | 20 | 4 | D | 1365 | | 1965 | 19 |
| G2002 | 20 | 14 | D | 1275 | | 1875 | 62 |
| G2003 | 20 | 4 | STR. | | | 1270 | 12 |
| G2004 | 20 | 8 | E | 200 | 300 | 500 | 9 |
| G2005 | 20 | 8 | STR. | | | 600 | 11 |
| TOTAL kg | | | | | | | 2 096 |

| | | | | | | | |
|-----------------|----|-----|------|-----|-----|------|-------------|
| * C1501 | 15 | 152 | G | | | 1200 | 286 |
| ** C1502 | 15 | 40 | STR. | | | 4650 | 292 |
| * CG 1501 | 15 | 152 | E | 600 | 600 | 1200 | 286 |
| * CG 1502 | 15 | 152 | F | | | 450 | 107 |
| * CG 1503 | 15 | 4 | STR. | | | 9730 | 61 |
| TOTAL kg | | | | | | | 1032 |



NOTES :

- * QUANTITY BASED ON 12 ANCHOR BOLT ASSEMBLIES SEE BRIDGERAIL LAYOUT FOR EACH BRIDGE FOR ACTUAL NUMBER OF ANCHOR BOLT ASSY.
- ** LENGTH BASED ON 4.750 JOINT SPACING. SEE CURB JOINT LAYOUT FOR EACH BRIDGE FOR ACTUAL JOINT SPACING.

DESIGN DATA :

LOADING :
LIVE LOAD - BRIDGE BRANCH = MS-23
0.90 WHEEL LINE PER GIRDER.
DEAD LOAD - GIRDER = 1.46 t/m
WEARING SURFACE AND SHEAR KEYS = 0.30 t/m

FORCE IN PRESTRESSING STEEL :

| | STRESS-RELIEVED | LOW RELAXATION |
|--|-----------------|-----------------|
| INITIAL TENSIONING LOAD | 128.6 kN/STRAND | 123.6 kN/STRAND |
| DESIGN LOAD AFTER LOSSES (INTERIOR GIRDER) | 89.0 kN/STRAND | 99.2 kN/STRAND |

CONCRETE :

| | STRESS REL. | LOW RELAX. |
|-----------------------|-------------|------------|
| INTR. 28 DAY STRENGTH | 35.0 | 35.0 MPa |
| RELEASE STRENGTH | 30.0 | 28.0 MPa |
| CURB 28 DAY STRENGTH | 38.0 | 38.0 MPa |
| RELEASE STRENGTH | 31.0 | 28.0 MPa |

ESTIMATED CAMBER OF BOTTOM OF INTERIOR GIRDER LEG AT TIME OF RELEASE = 73 mm (STRESS RELIEVED STRANDS)

THEORETICAL MASS OF ONE GIRDER IS 55.5 t (73.6 t WITH CURB)

WORK THIS DRAWING IN CONJUNCTION WITH DRAWING NO. S-1399

APPROVED

Albera TRANSPORTATION BRIDGE BRANCH

PRESTRESSED CONCRETE
38 m TYPE FM-1370 GIRDER

DESIGNED: A. WAHEED, DRAWN BY: R. SZOTS, DATE: 78 03 01, CHECKED BY: J. S. J. J., DATE: June 22/78, STREAM: , LOCATION: , HWY. NO.: , SCALE: SHOWN, FILE NO.: , SHEET: S-1389, DWG. NO.: 77 12 23