DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2002 AND INTERIM SPECIFICATIONS.

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT SPECIFICA-TIONS AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS.

LIVE LOAD: AASHTO HS-20 AND HST-18.

DESIGN SPAN: THE DESIGN SPAN IS EQUAL TO STRINGER SPACING MINUS ONE- HALF STRINGER FLANGE WIDTH.

STRUCTURAL STEEL: TYPE STEEL SHALL BE AS SPECIFIED. DESIGN WEIGHT: STRUCTURES USING THESE GRID FLOORINGS SHALL BE DESIGNED FOR A FLOORING WEIGHT OF 25 POUNDS PER SQUARE FOOT.

ACTUAL WEIGHT: GRID FLOORING MANUFACTURED UNDER THIS STANDARD SHALL NOT WEIGH LESS THAN 22 POUNDS PER SQUARE FOOT.

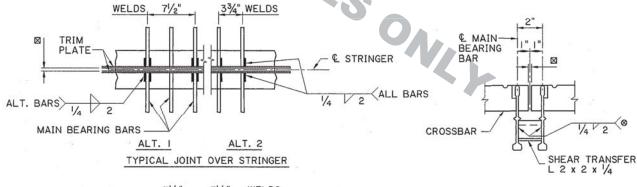
MOVABLE SPANS: WHEN GRID FLOORING IS TO BE USED ON A MOVABLE SPAN, THE FABRICATOR SHALL BE REQUIRED TO MOVABLE SPANS: SUBMIT TO THE BRIDGE DESIGN ENGINEER THE ACTUAL WEIGHT PER SQUARE FOOT OF THE GRID FLOORING, BOTH WITH AND WITHOUT ATTACHMENTS.

PROTECTIVE COATING: GRID FLOORING SHALL BE PAINTED OR GALVANIZED AS CALLED FOR IN THE SPECIFICATIONS.

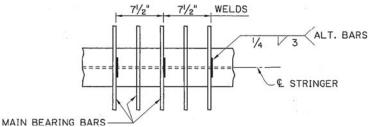
 $\underline{\text{TRIM PLATES:}}$ TRIM PLATES SHALL BE SAME MATERIAL AND GRADE AS THE GRID FLOORING. USE $^1\!\!/_4$ " FILLET WELDS FOR TRIM PLATES TO GRID FLOORING CONNECTION. TRIM PLATES TO BE INCLUDED IN THE COST OF STEEL GRID FLOORING.

| MAIN BEARING BA | AR DES | SIGN E | ATA |
|---|--------|--------|------|
| FLOORING TYPE | I | п | m |
| WEIGHT OF MAIN BAR (MINIMUM LBS/FT) | 4.65 | 4.65 | 5.50 |
| MOMENT OF INERTIA (MINIMUM IN4) | 3.5 | 3.5 | 4.6 |
| SECTION MODULUS (MINIMUM IN ³) | 1.25 | 1.25 | 1.55 |
| STEEL TYPE | A36 | A588 | `A36 |
| MAXIMUM STRINGER SPACING * | 4'-1" | 5'-1" | |

* ASSUME CONTINUOUS SPANS AND 6" WIDE STRINGER FLANGE



PARALLEL CTION B-



TYPICAL CONTINUOUS OVER STRINGER

BARRIER

/2" MAX. OPENING

TRIM PLATE TYPICAL AT BARRIER

GRID FLOORING

© SHEAR TRANSFER L 2 x 2 x 1/4 (BETWEEN PANEL JOINTS ONLY)

FIELD WELDING DIAGRAM



- \boxtimes O" TO $^{1}\!\!/_{4}$ " MAXIMUM CROSS BAR GAP (NO WELD)
- SHOP WELD TO EXTERIOR BAR ON ONE SIDE. THEN FIELD WELD TO OTHER SIDE AFTER INSTALLATION. (TYP. ALONG BOTH LEGS OF ANGLE)





DETAILS ARE NTS

BRIDGE AND STRUCTURAL DESIGN

FEDERAL PROJECT STATE

STEEL GRID (HEAVY DUTY