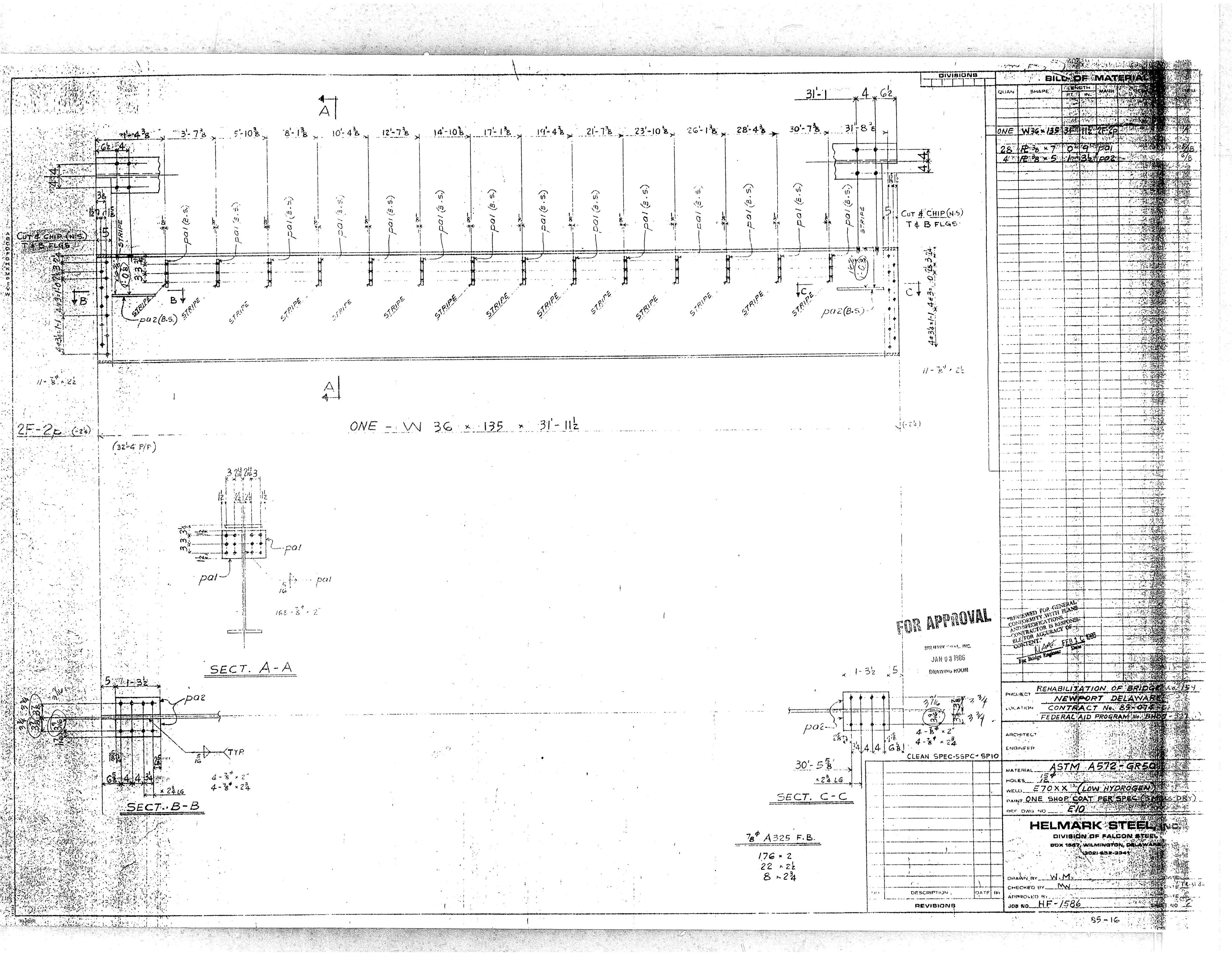
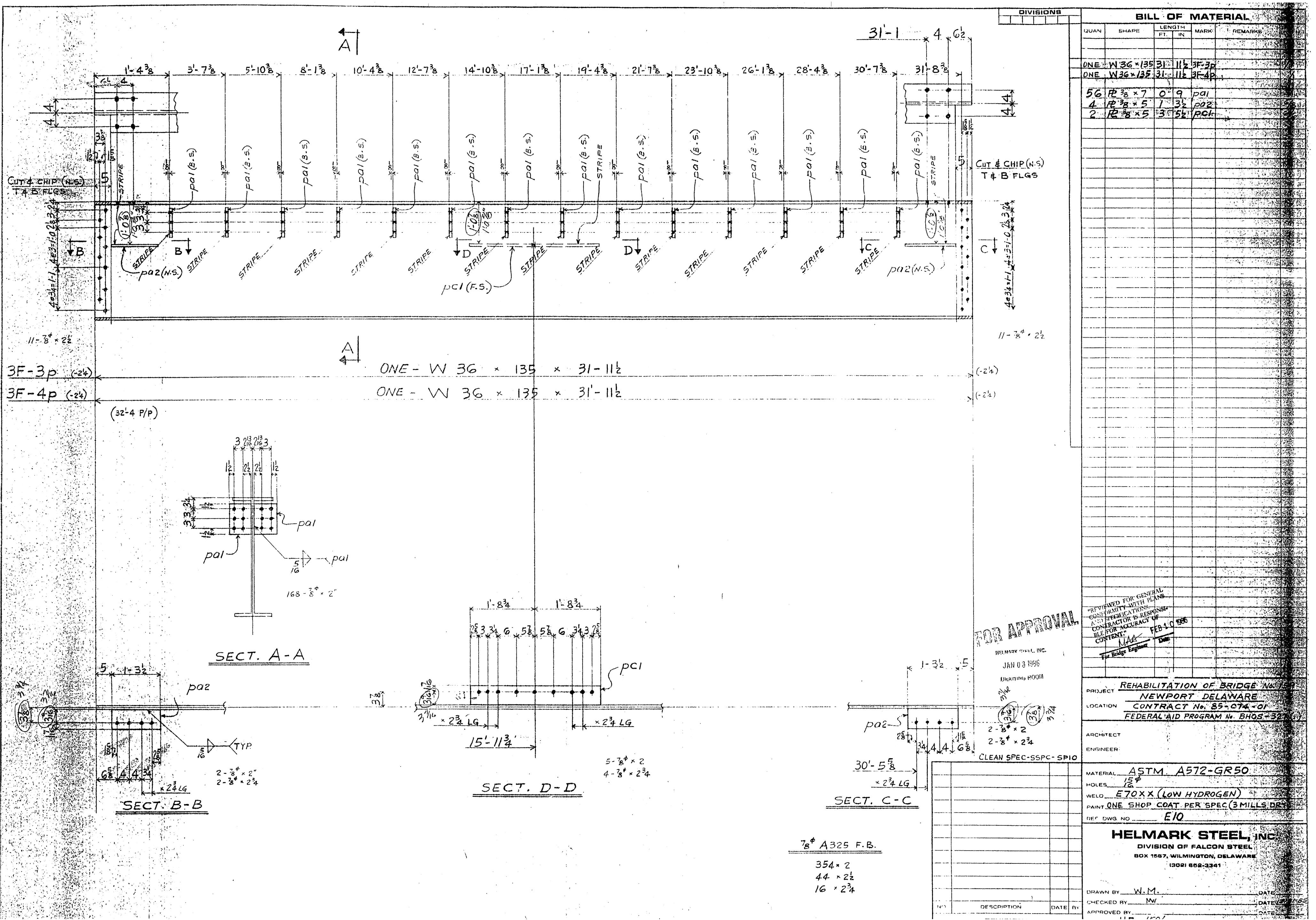
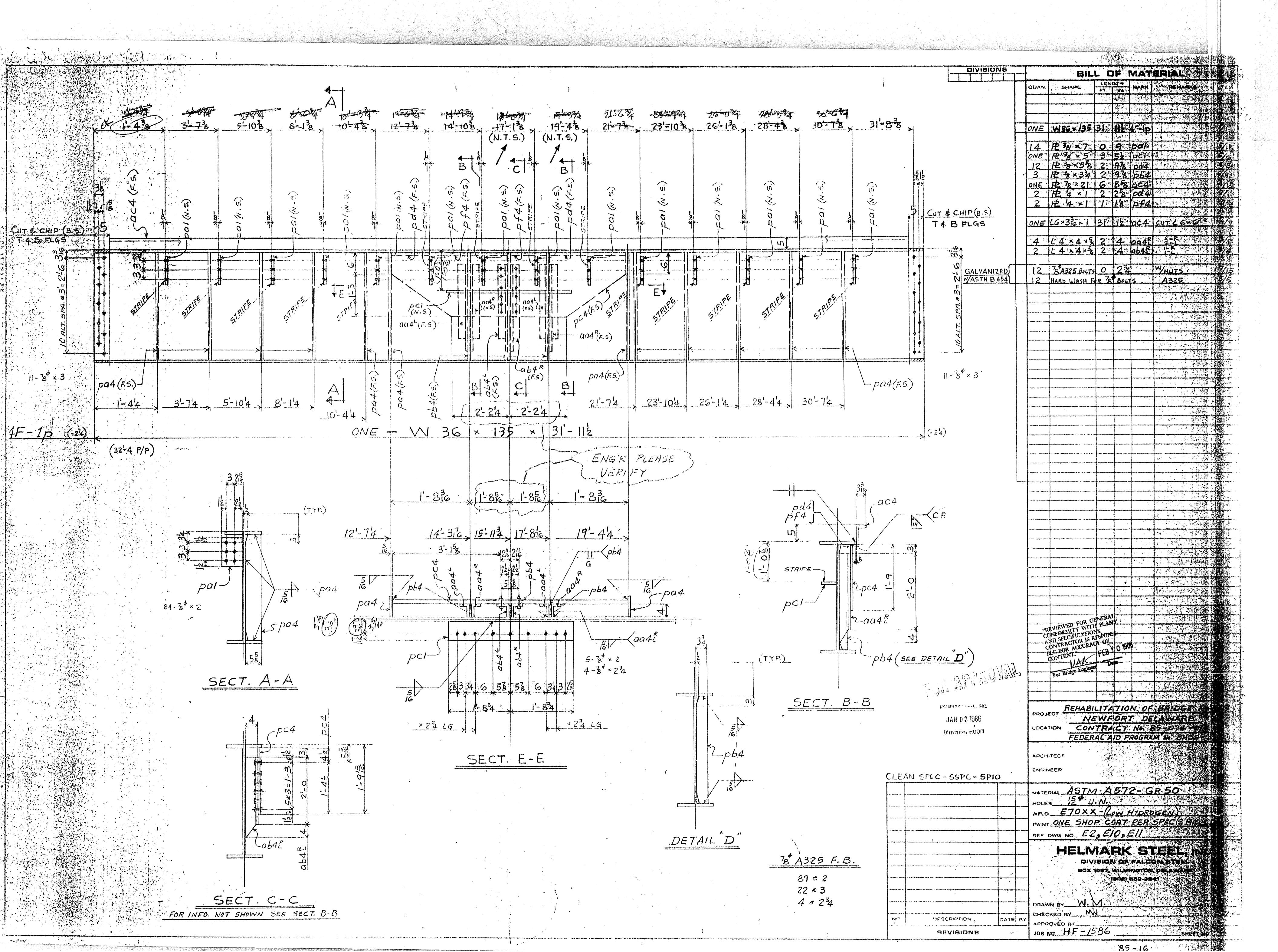
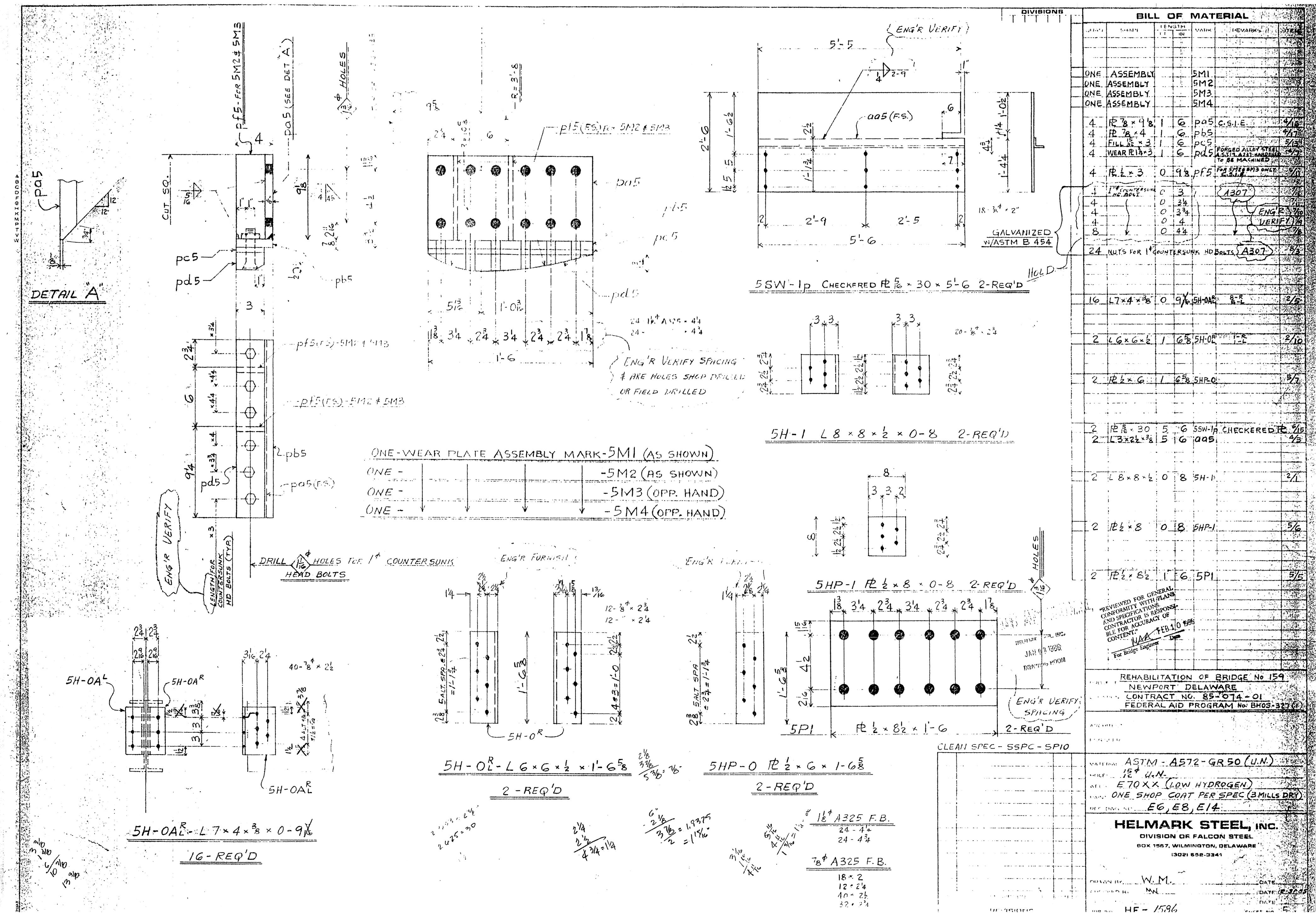


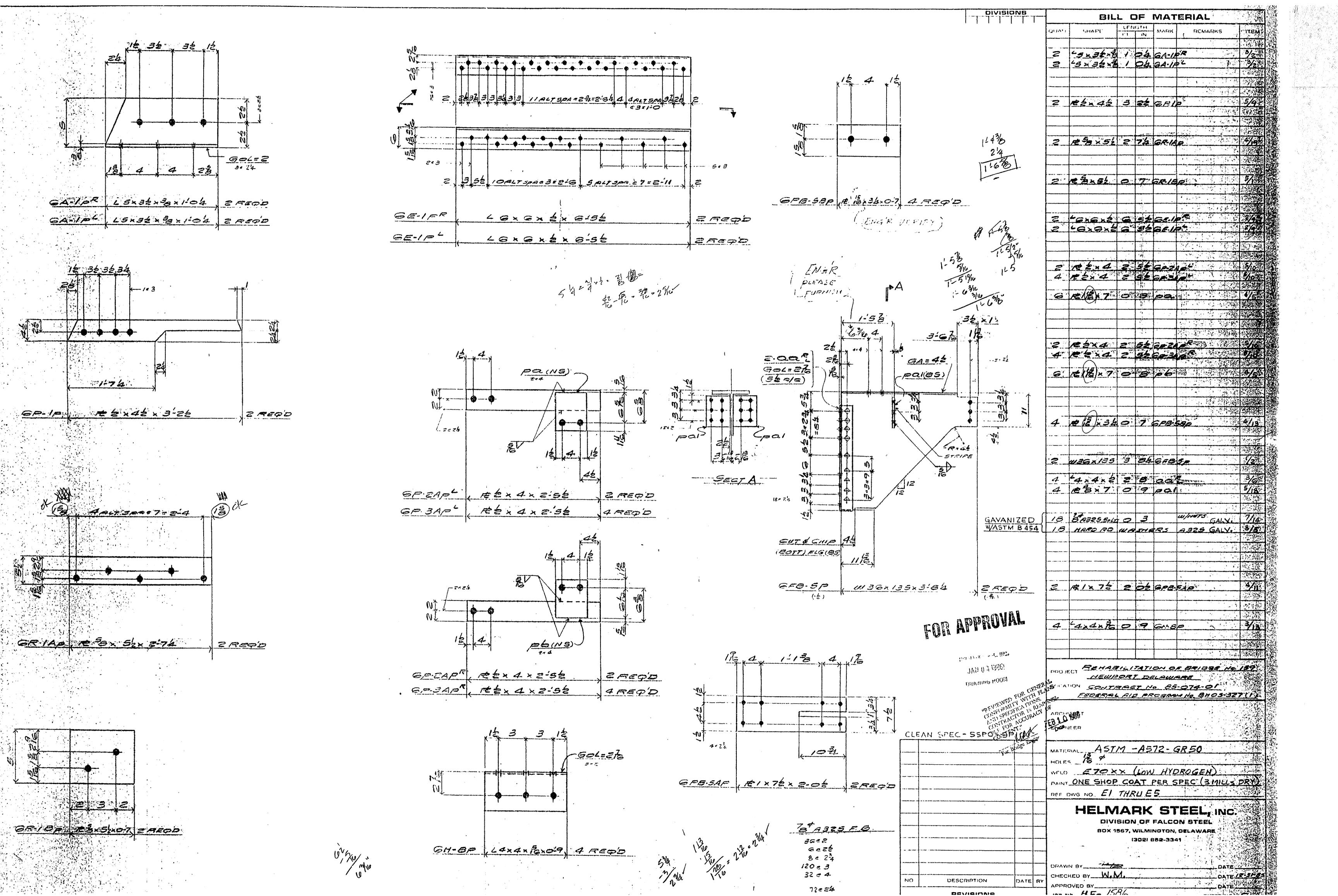
For Informational Purposes Only

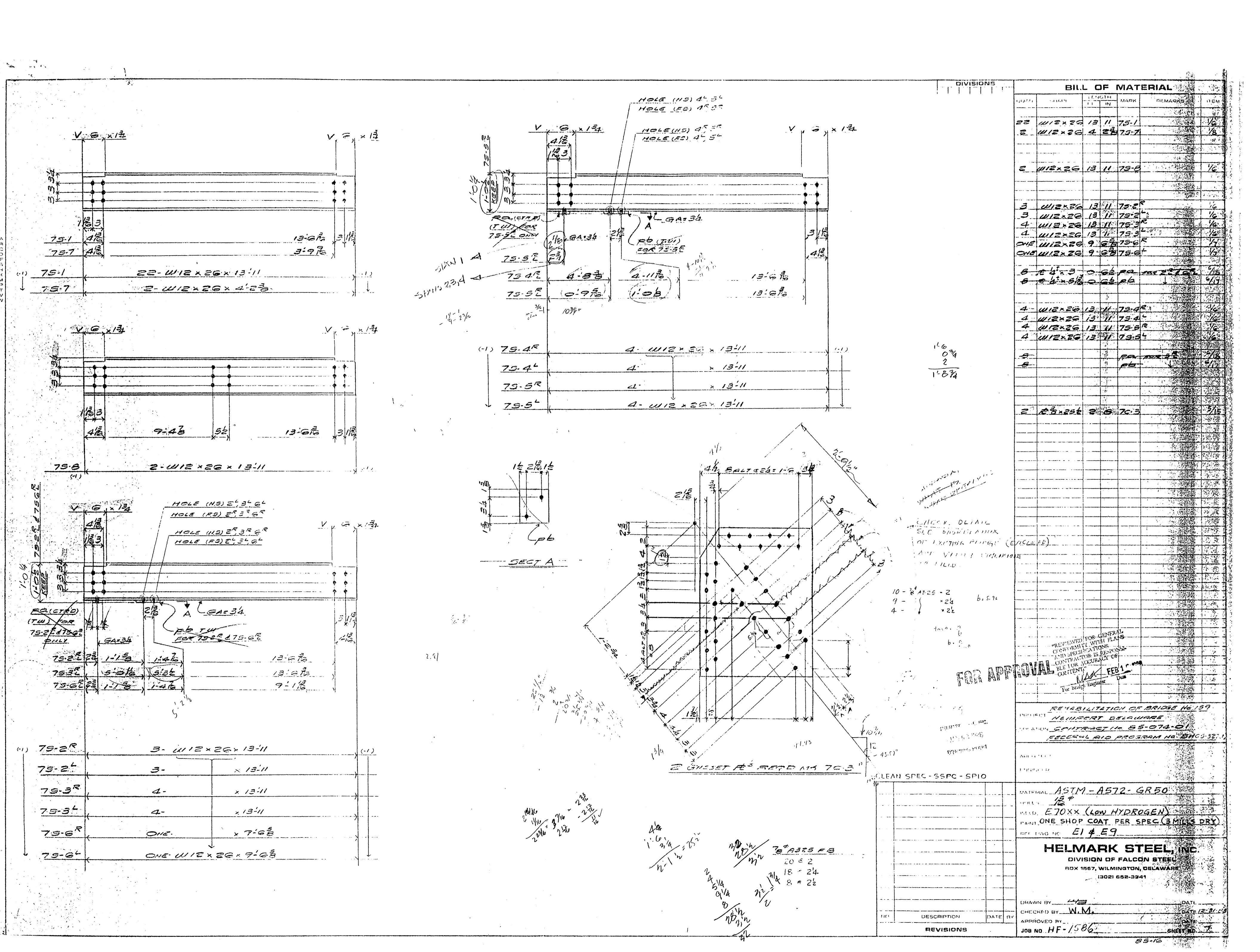


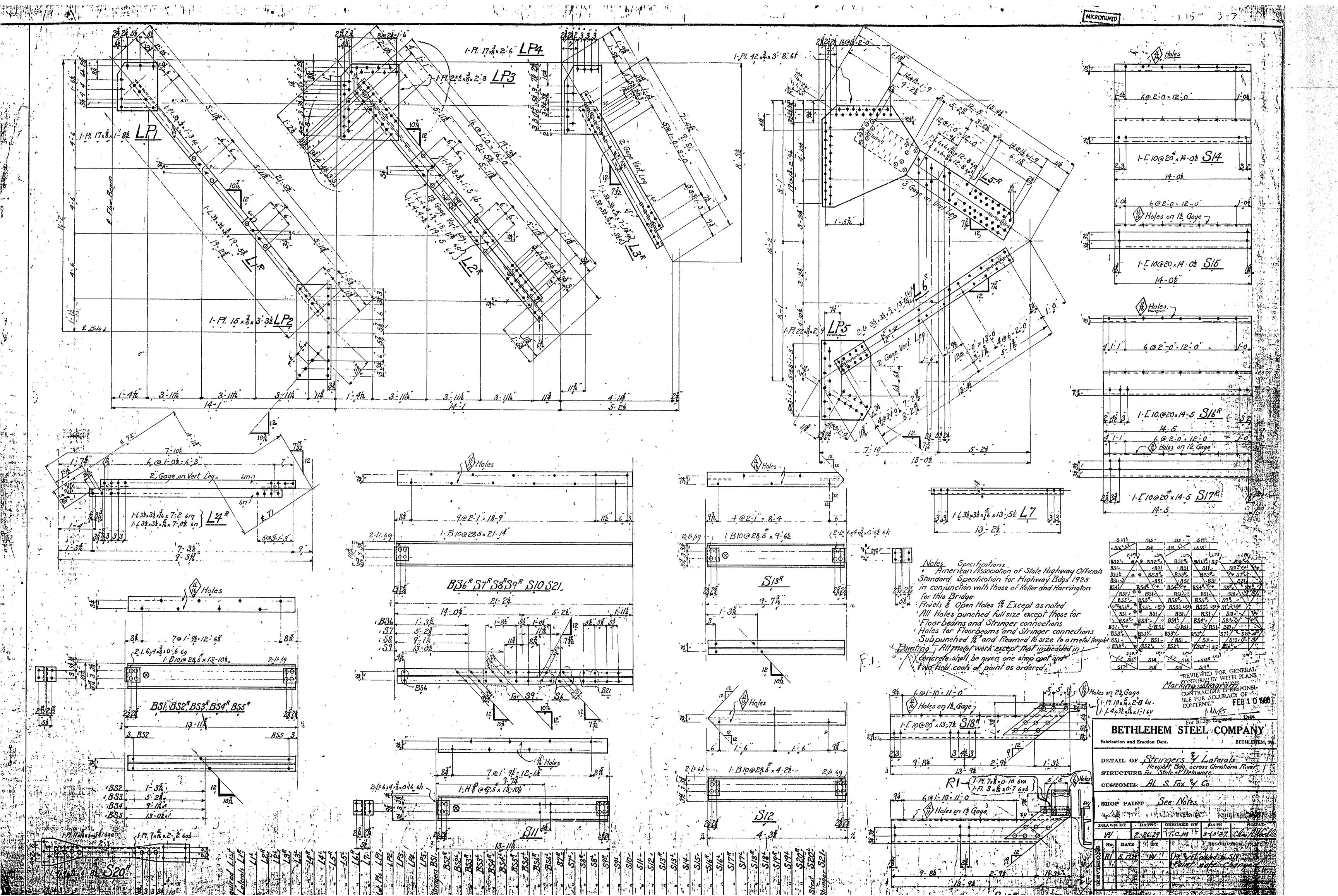


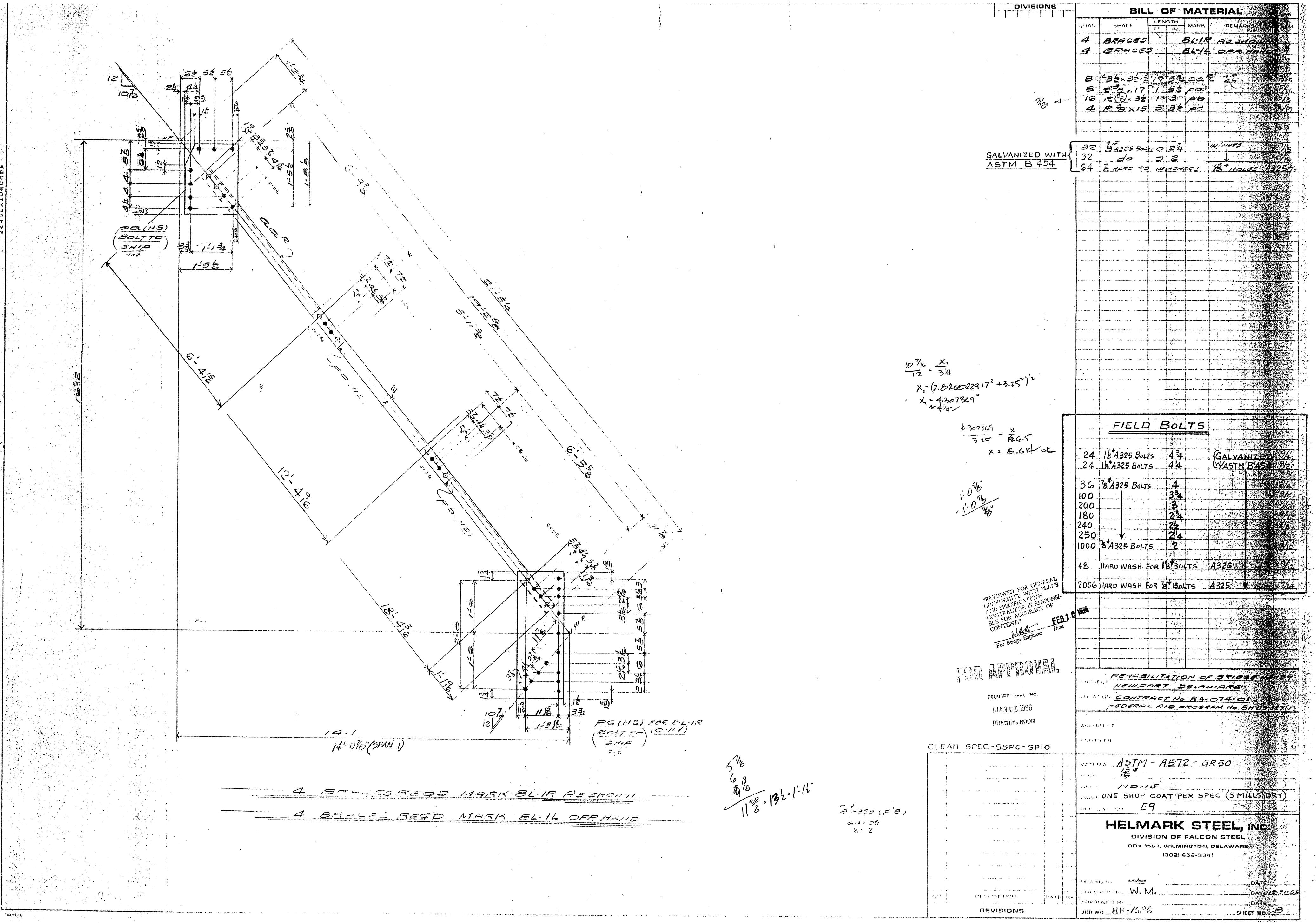


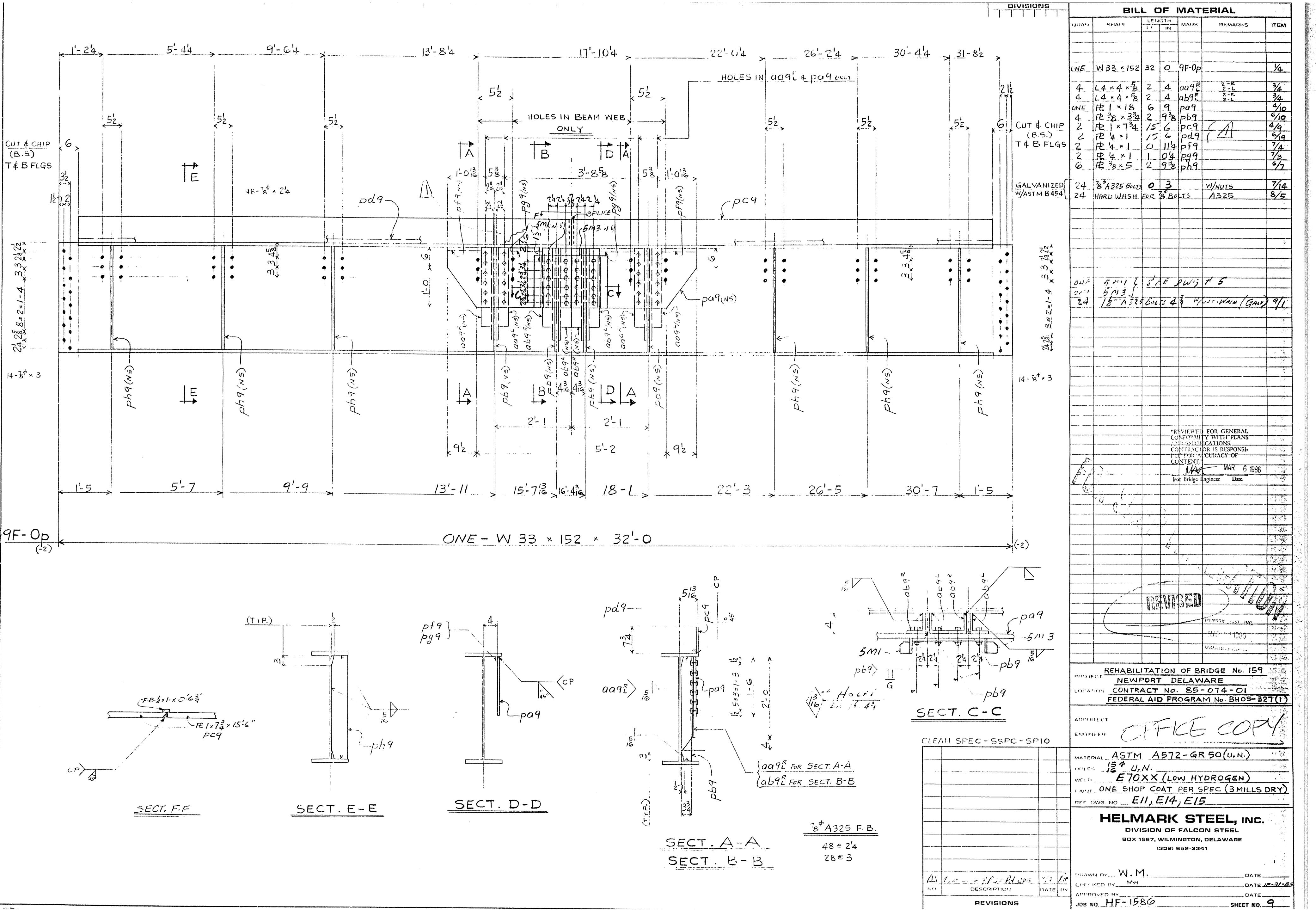


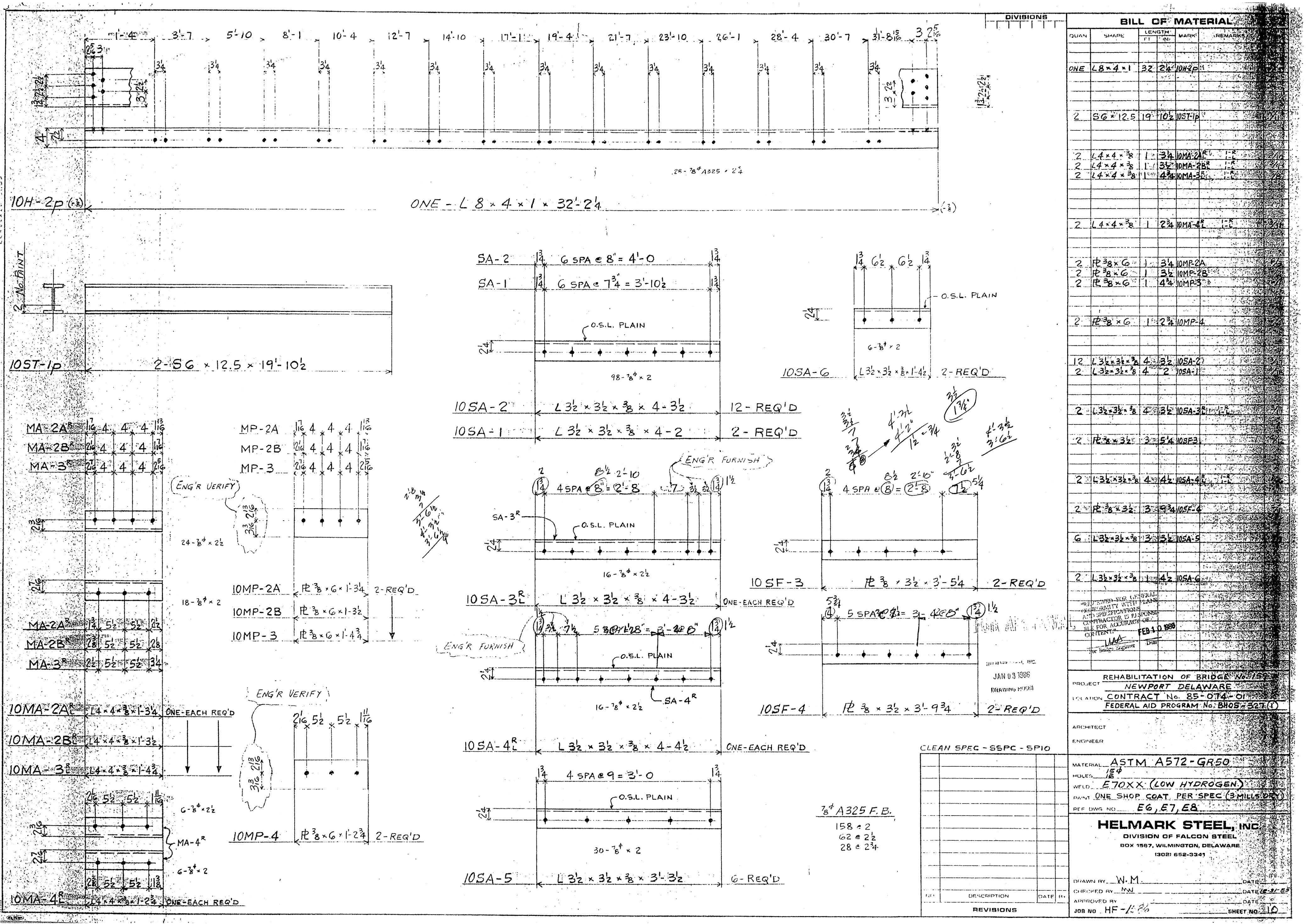


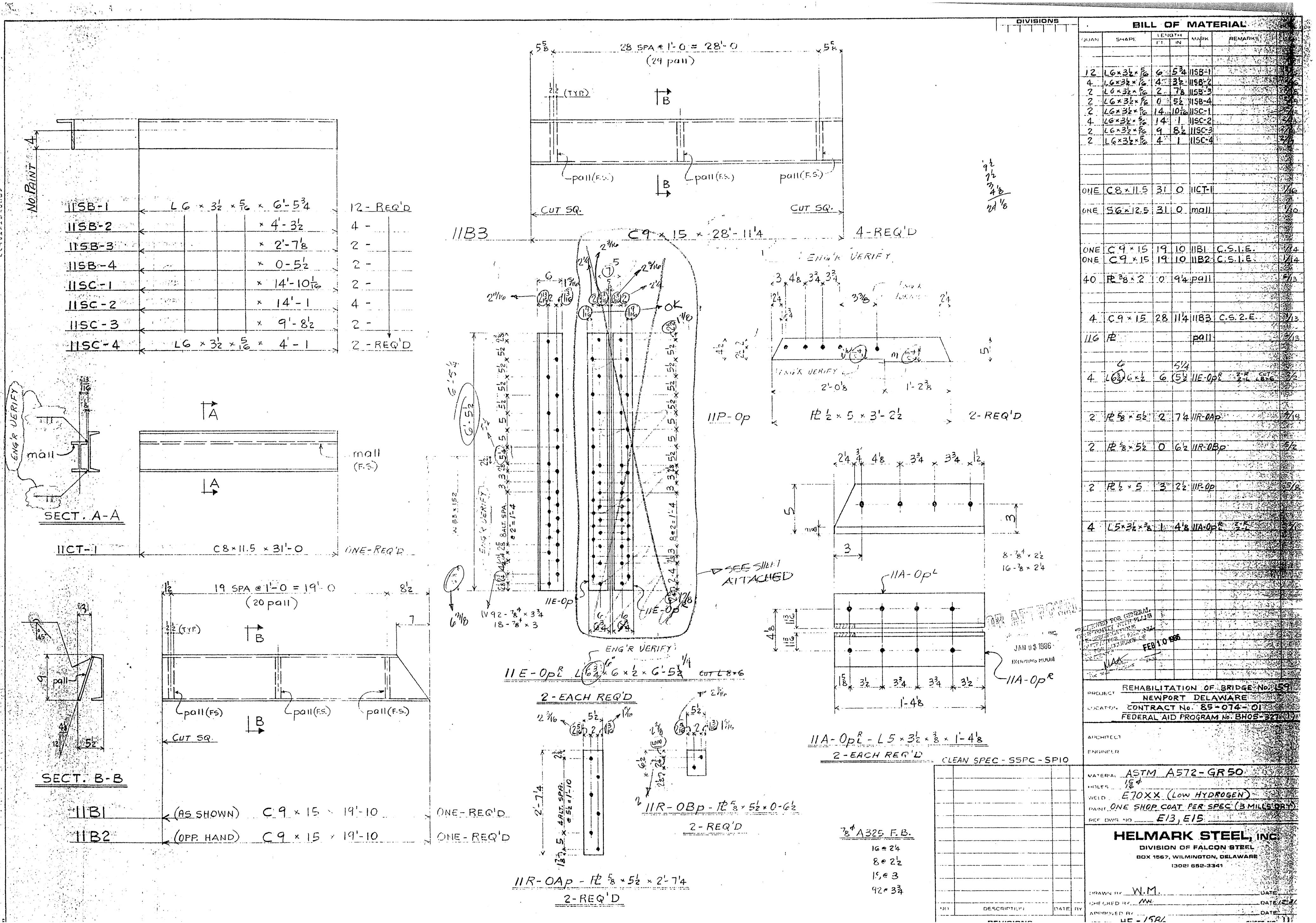


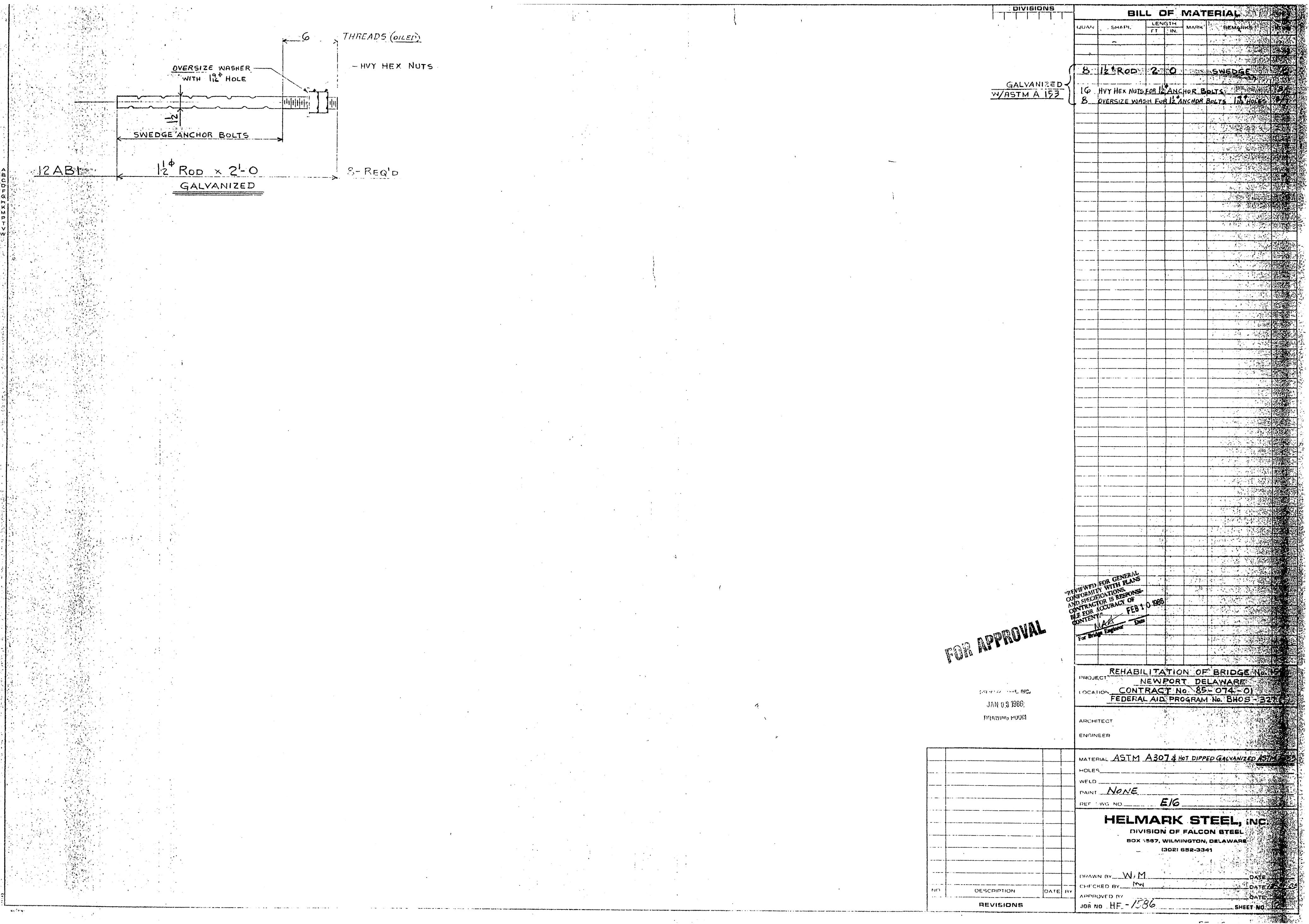


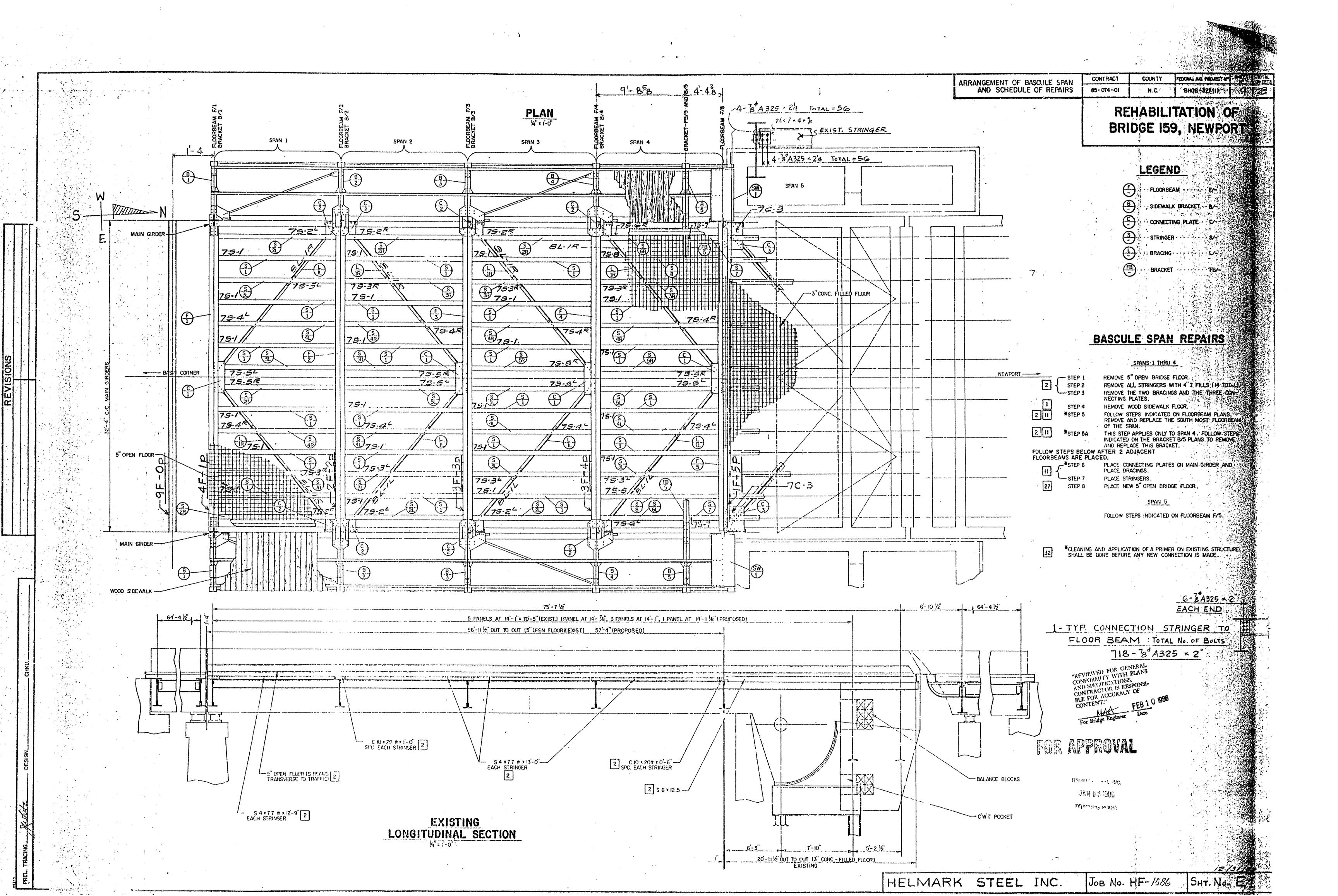


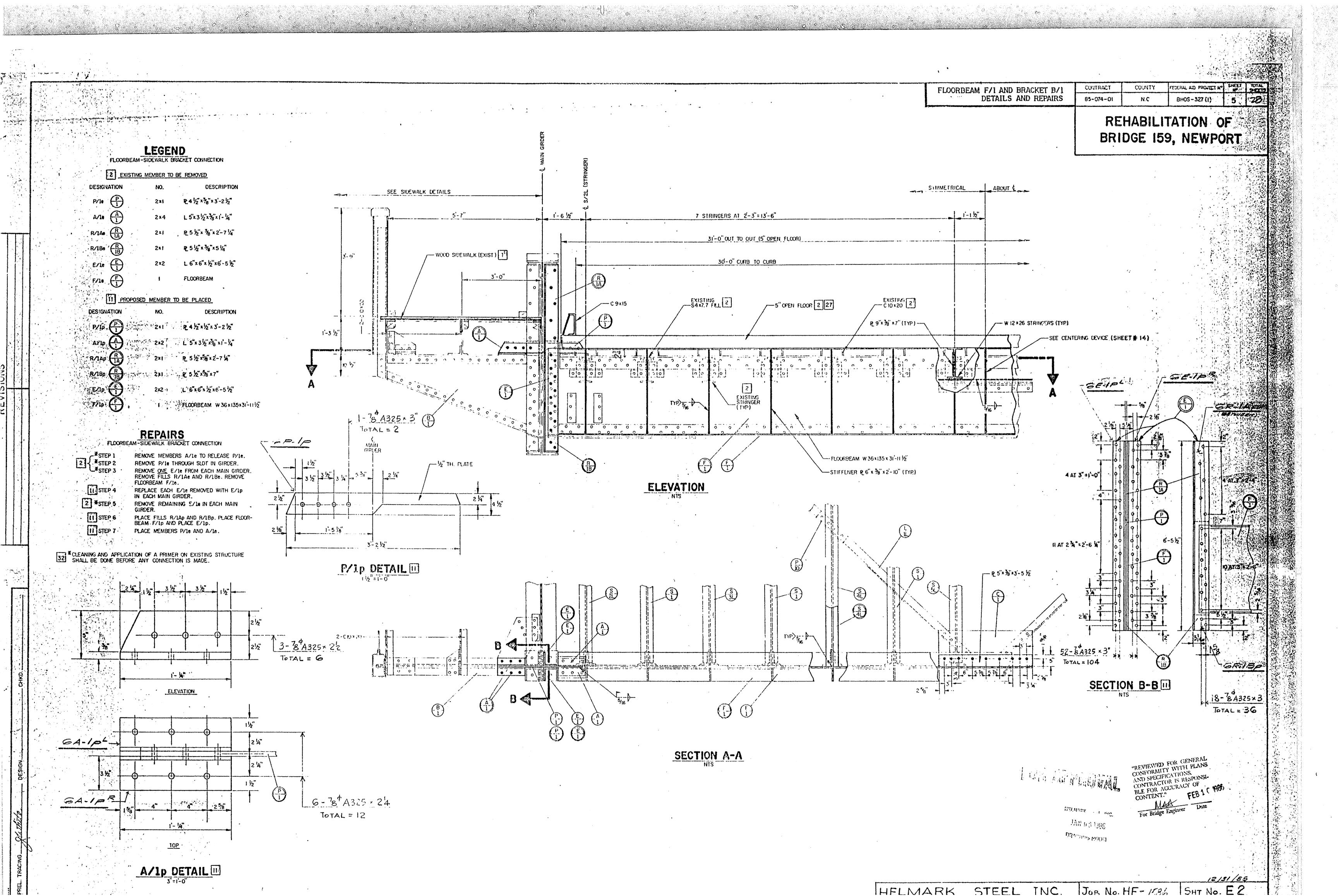


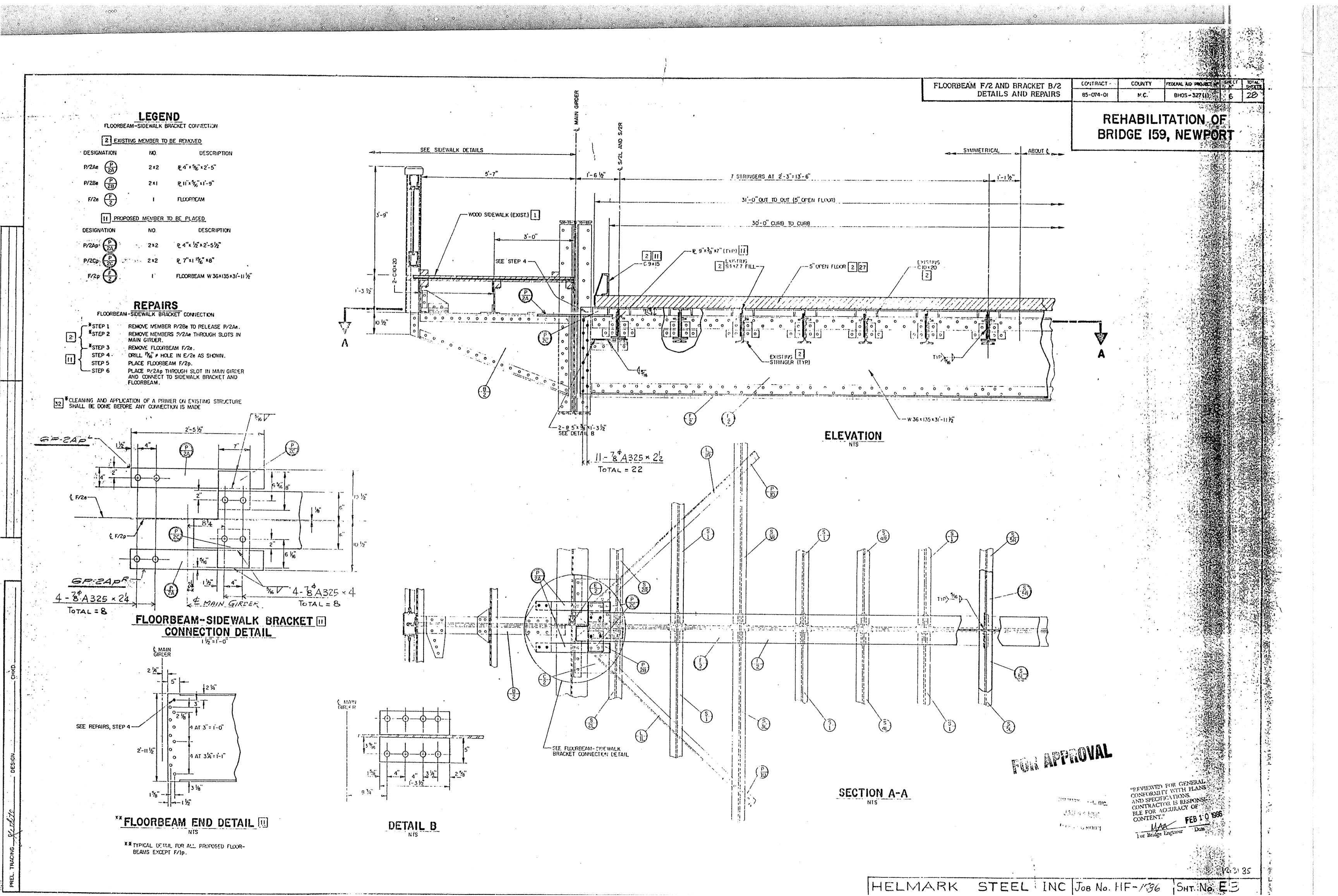


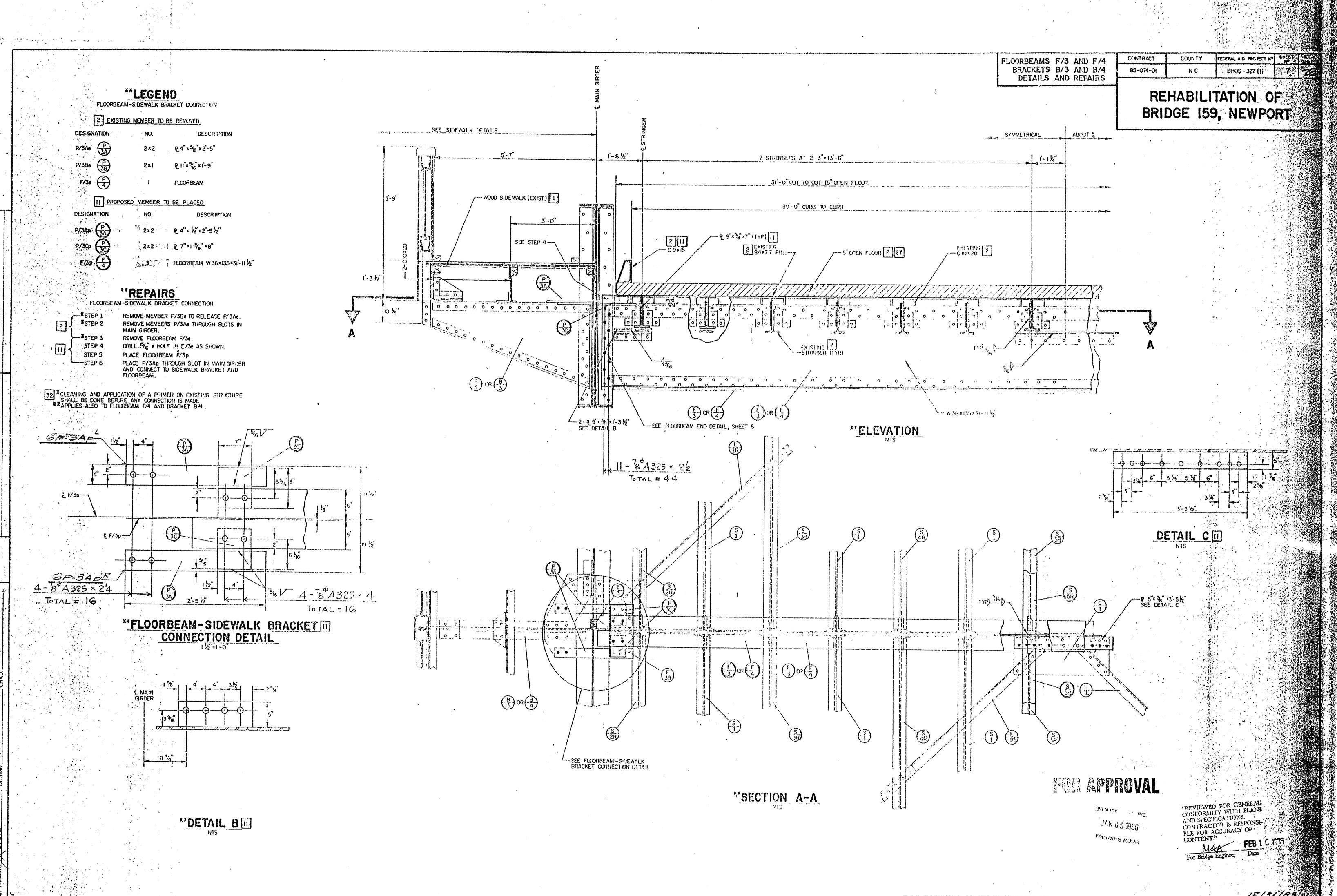




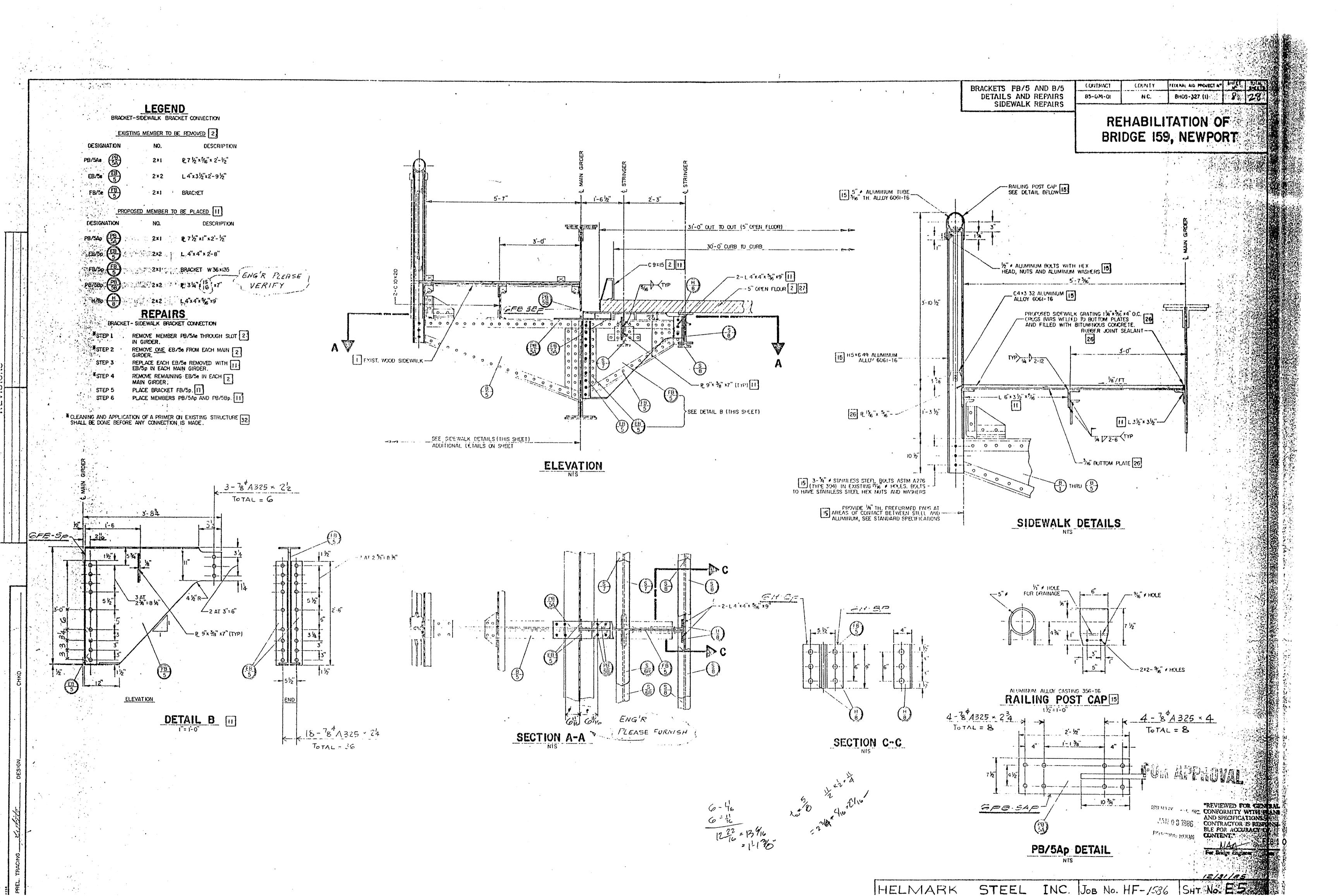


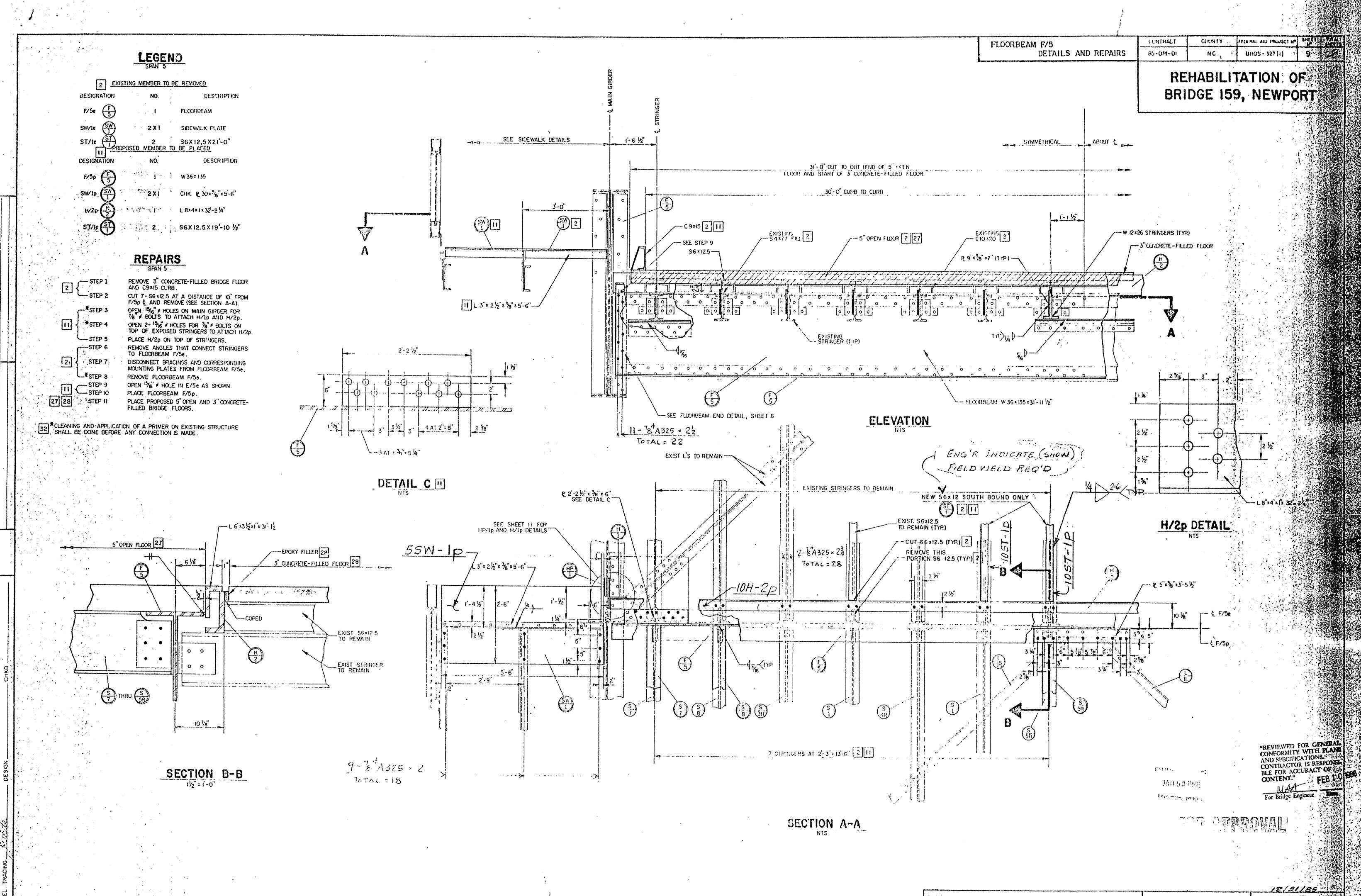






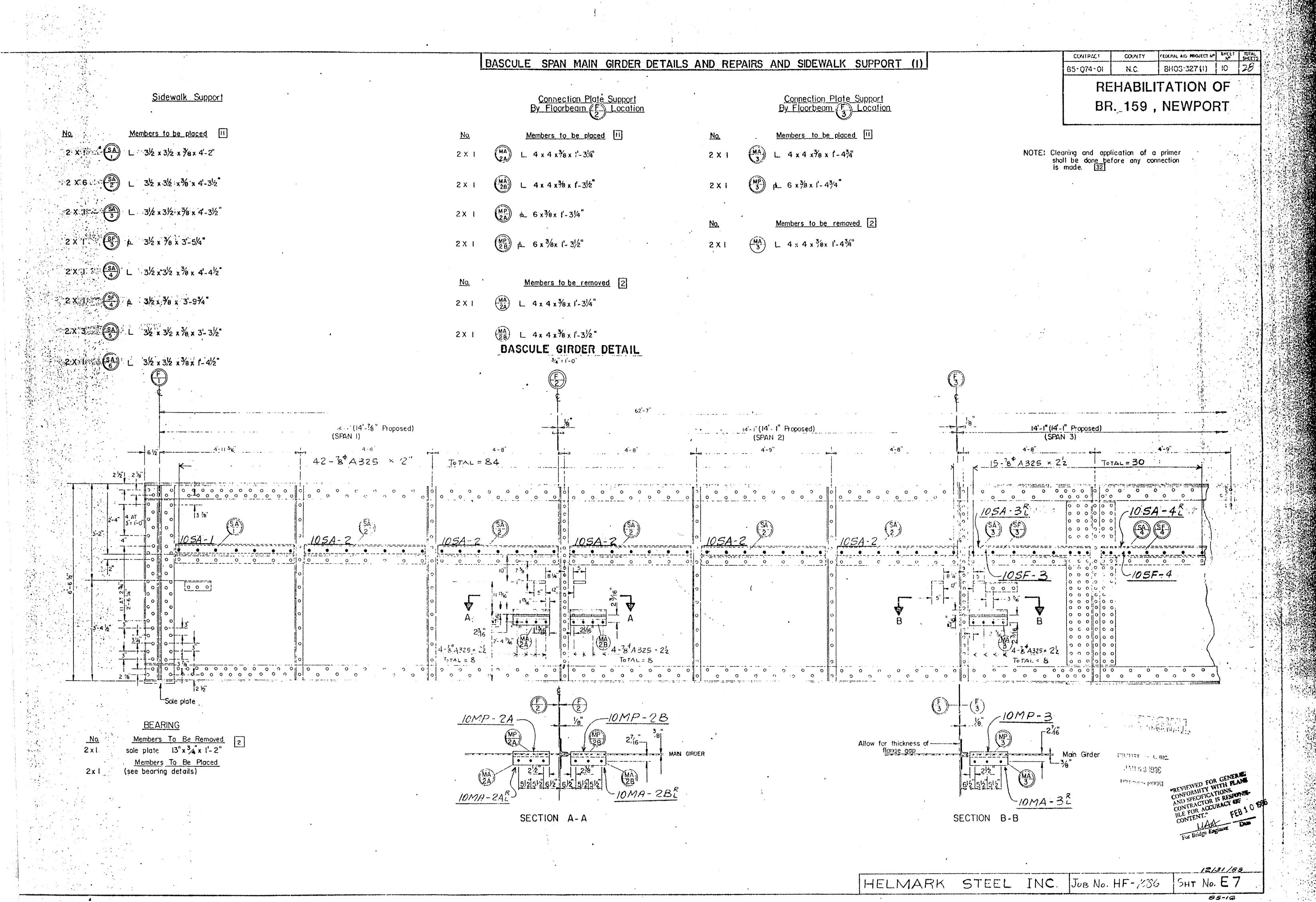
HELMARK STEEL INC JOB No. HF-1536 SHT No. E4

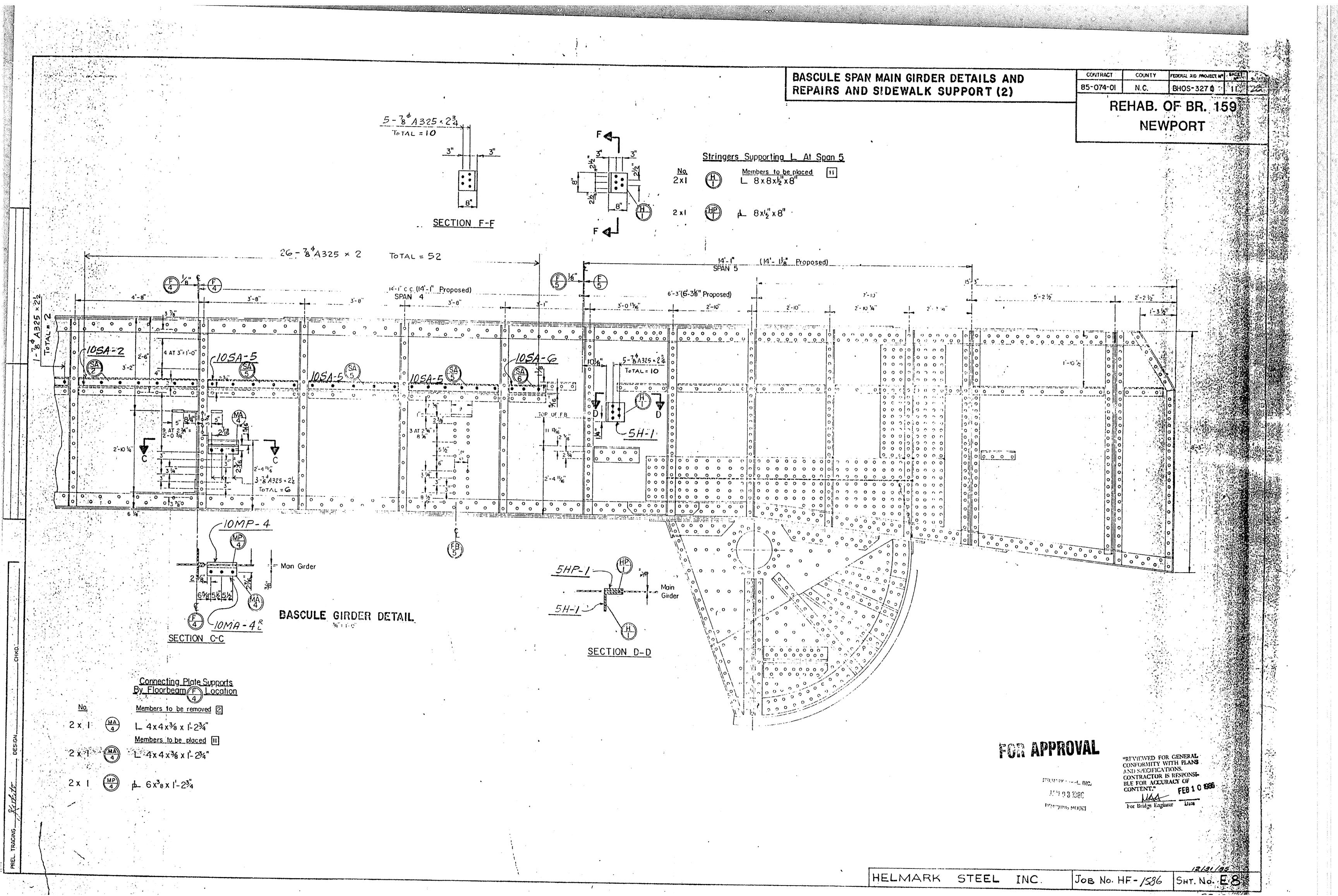


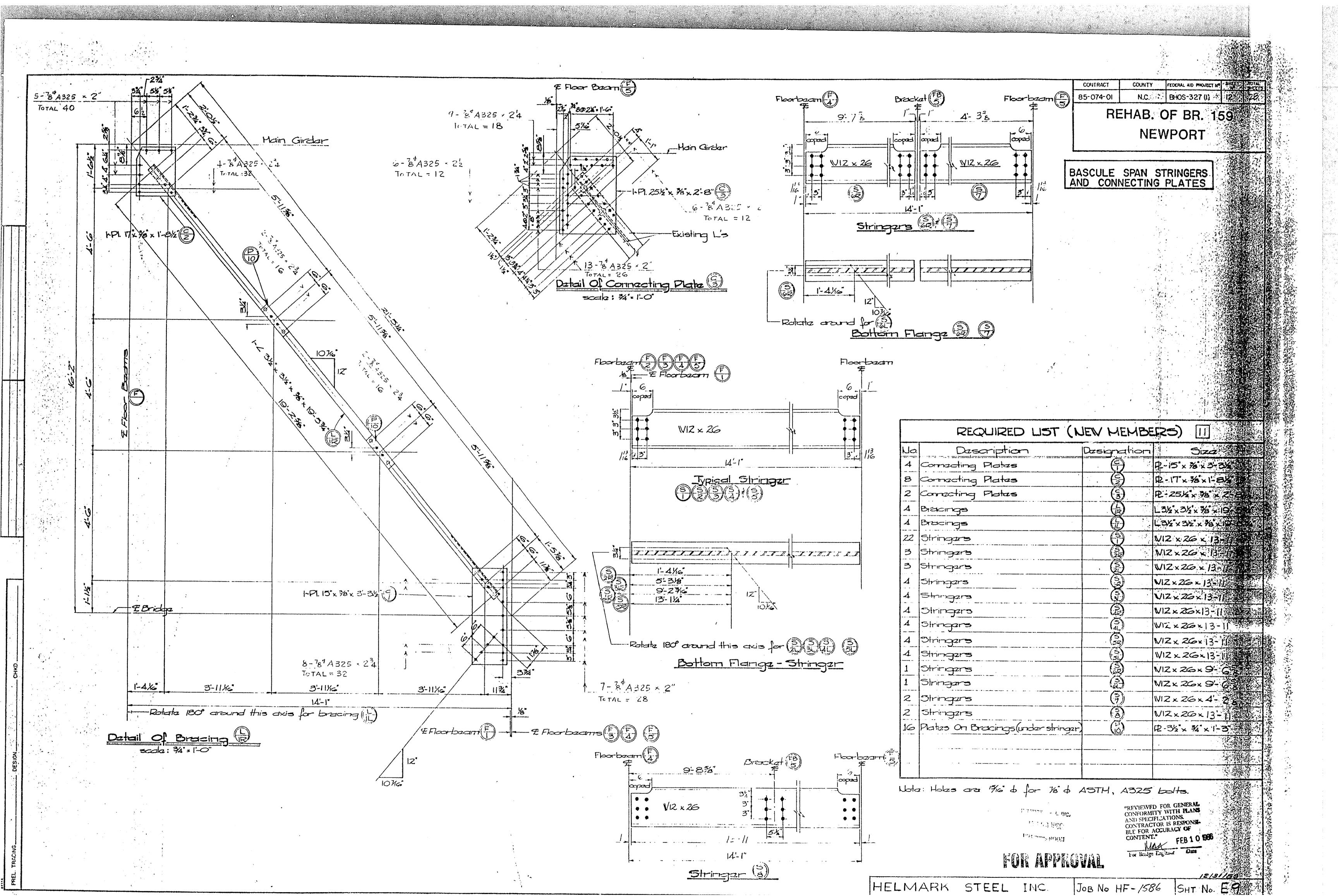


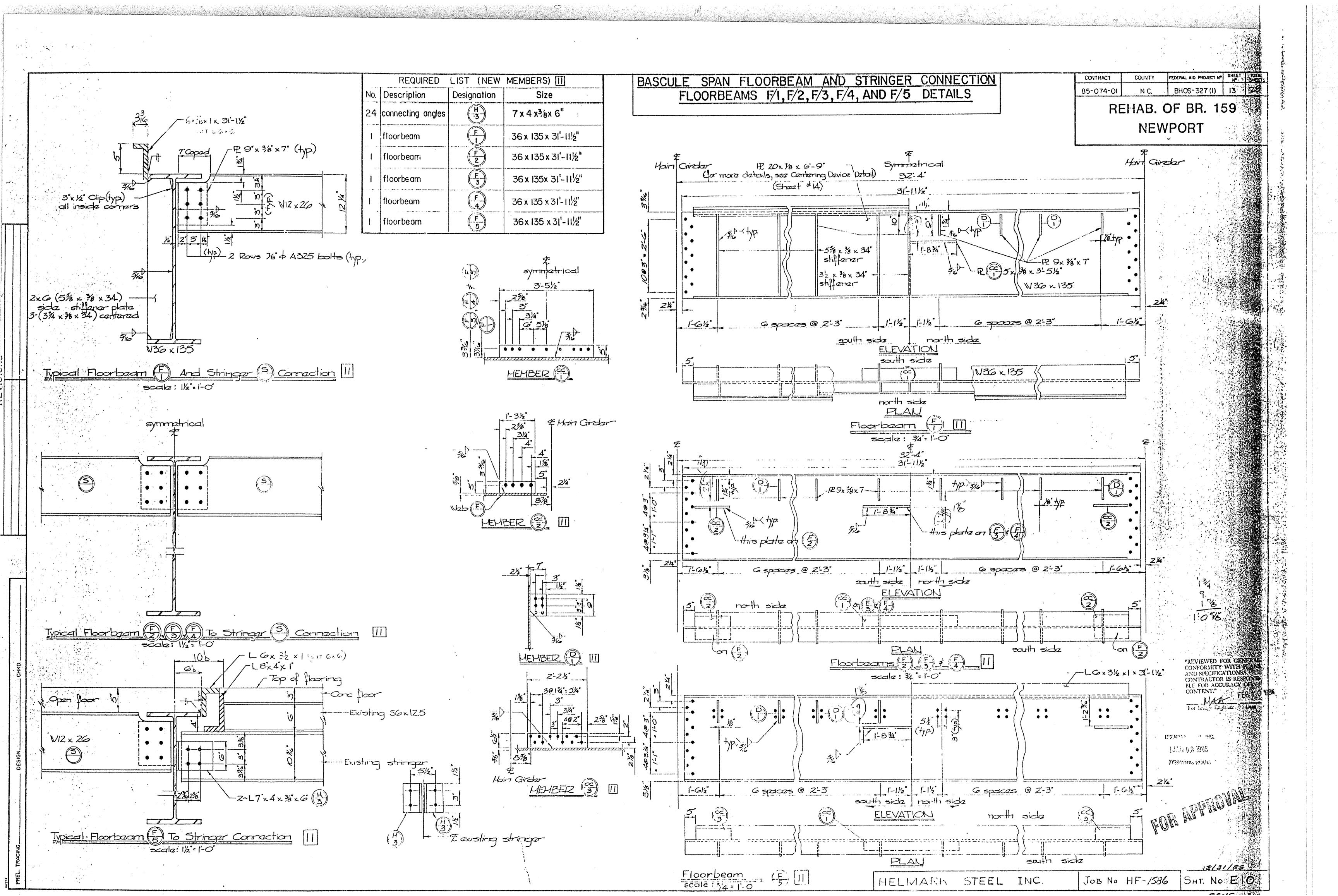
HELMARK STEEL INC JOB No. H

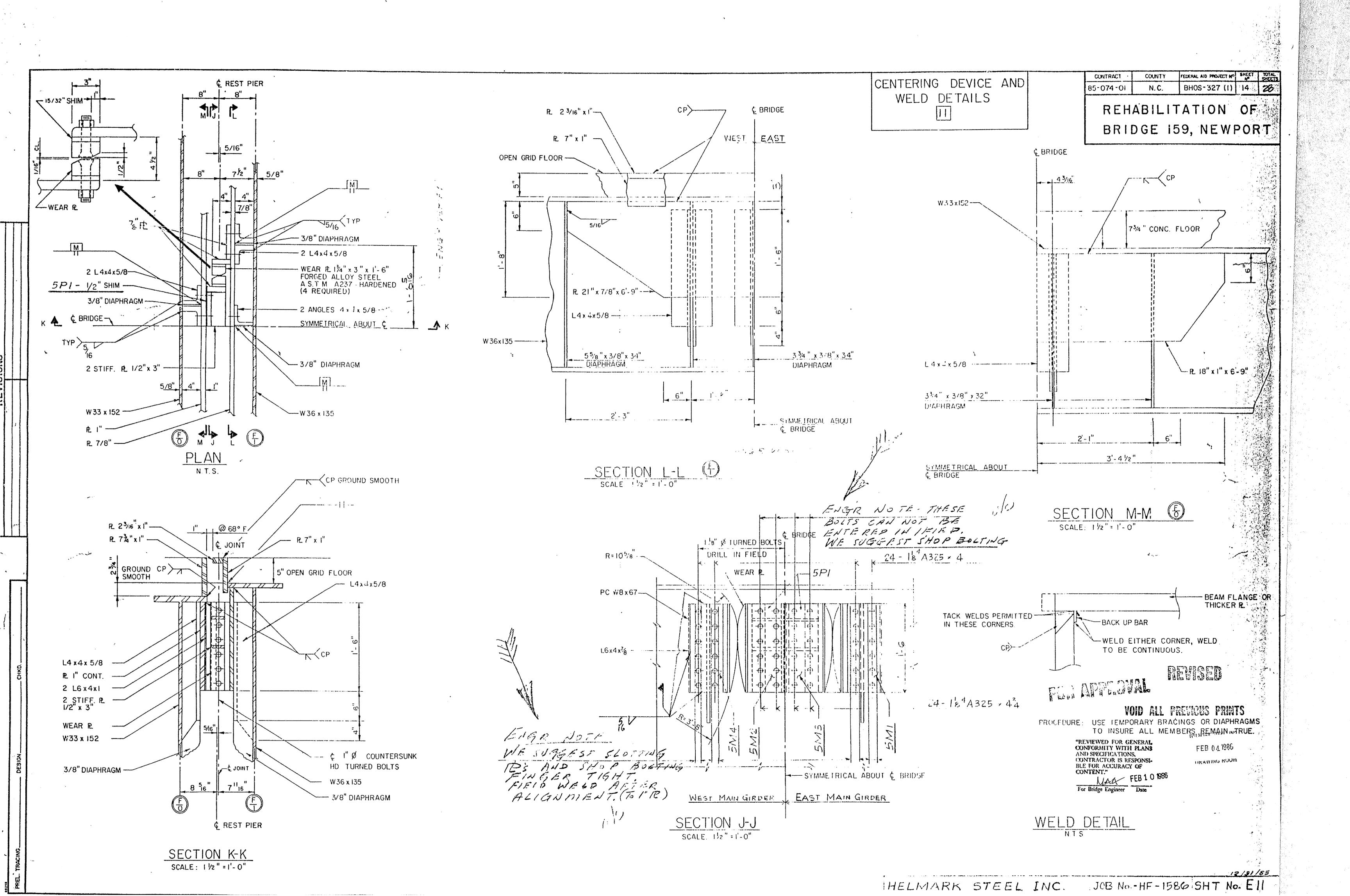
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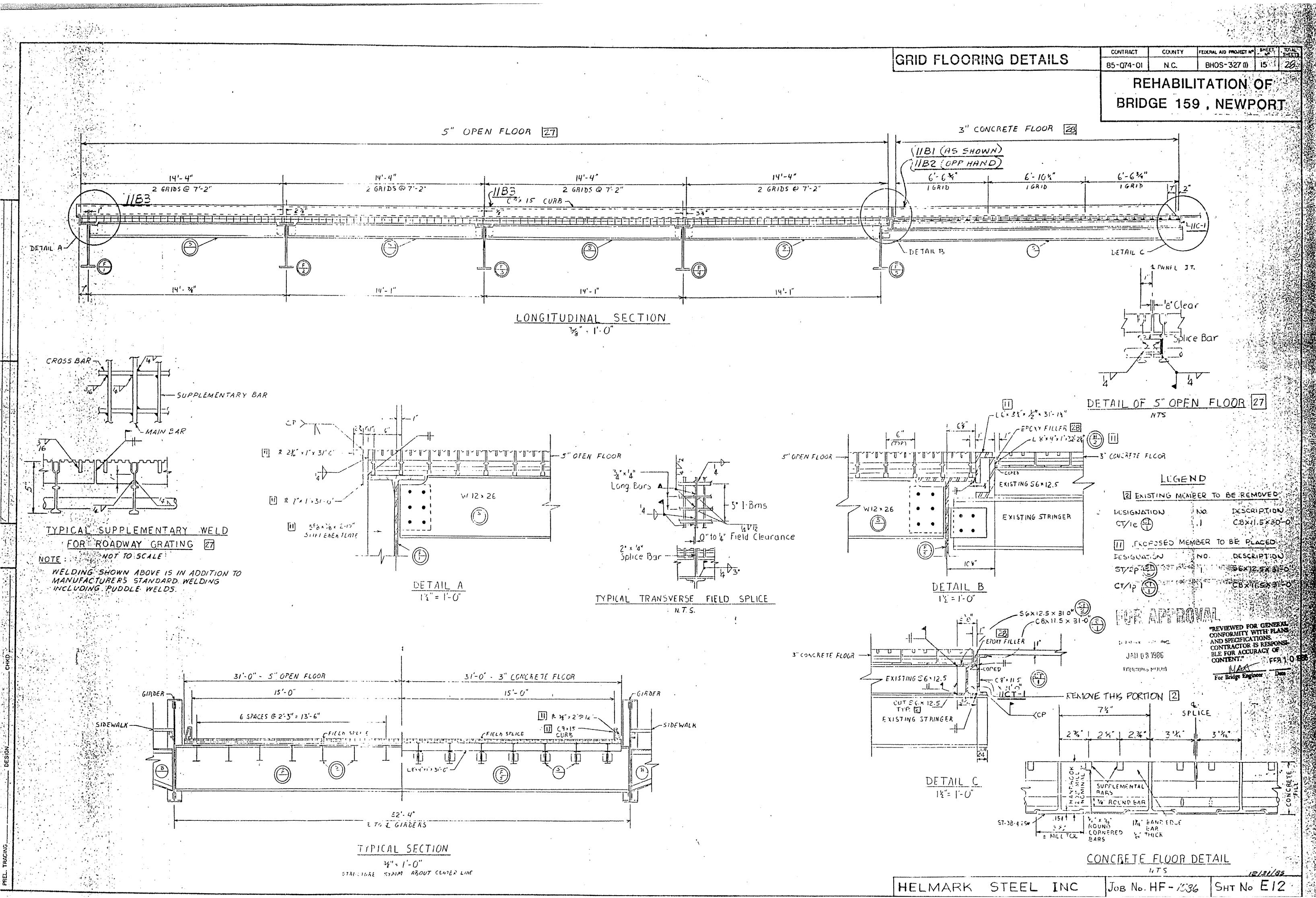


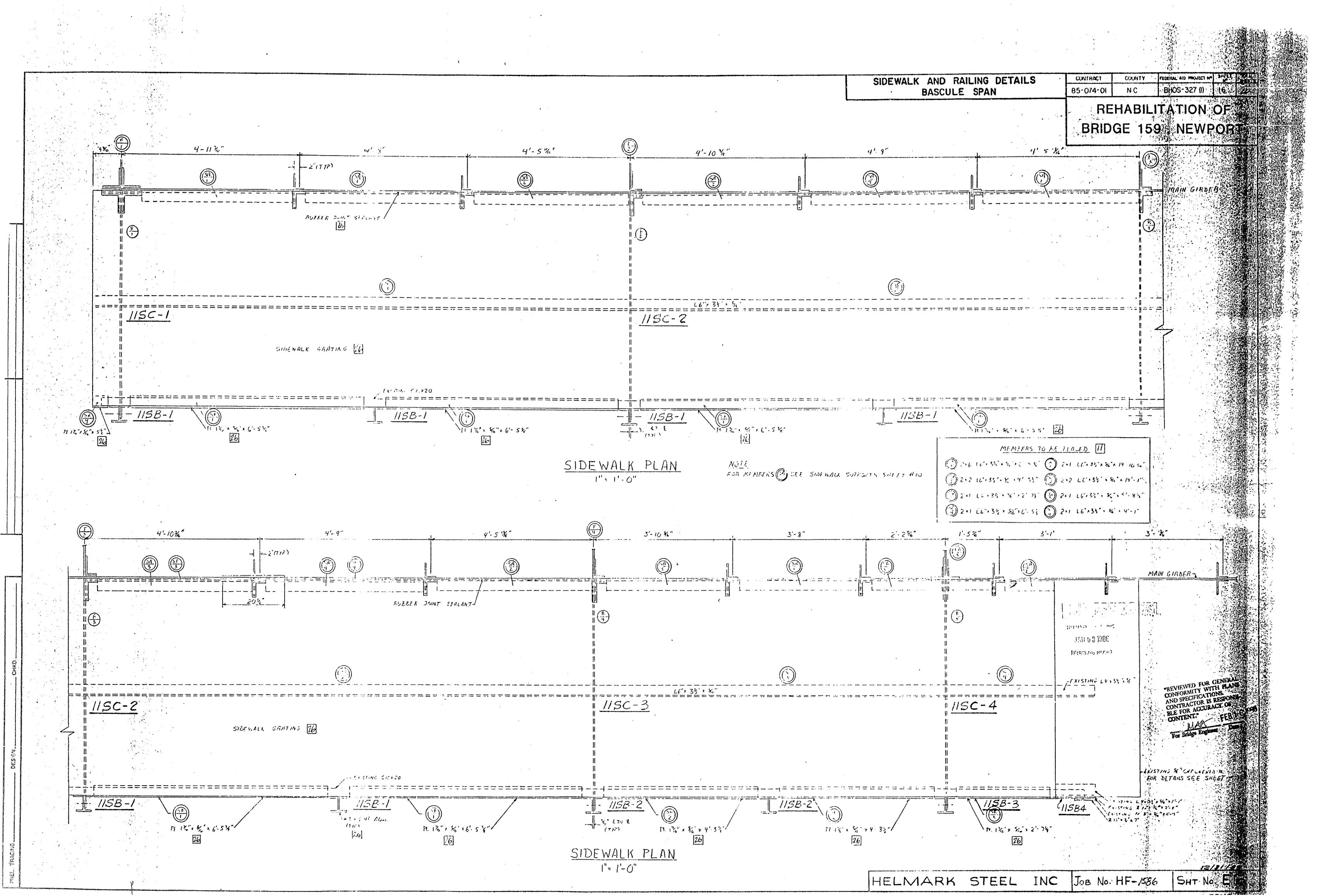


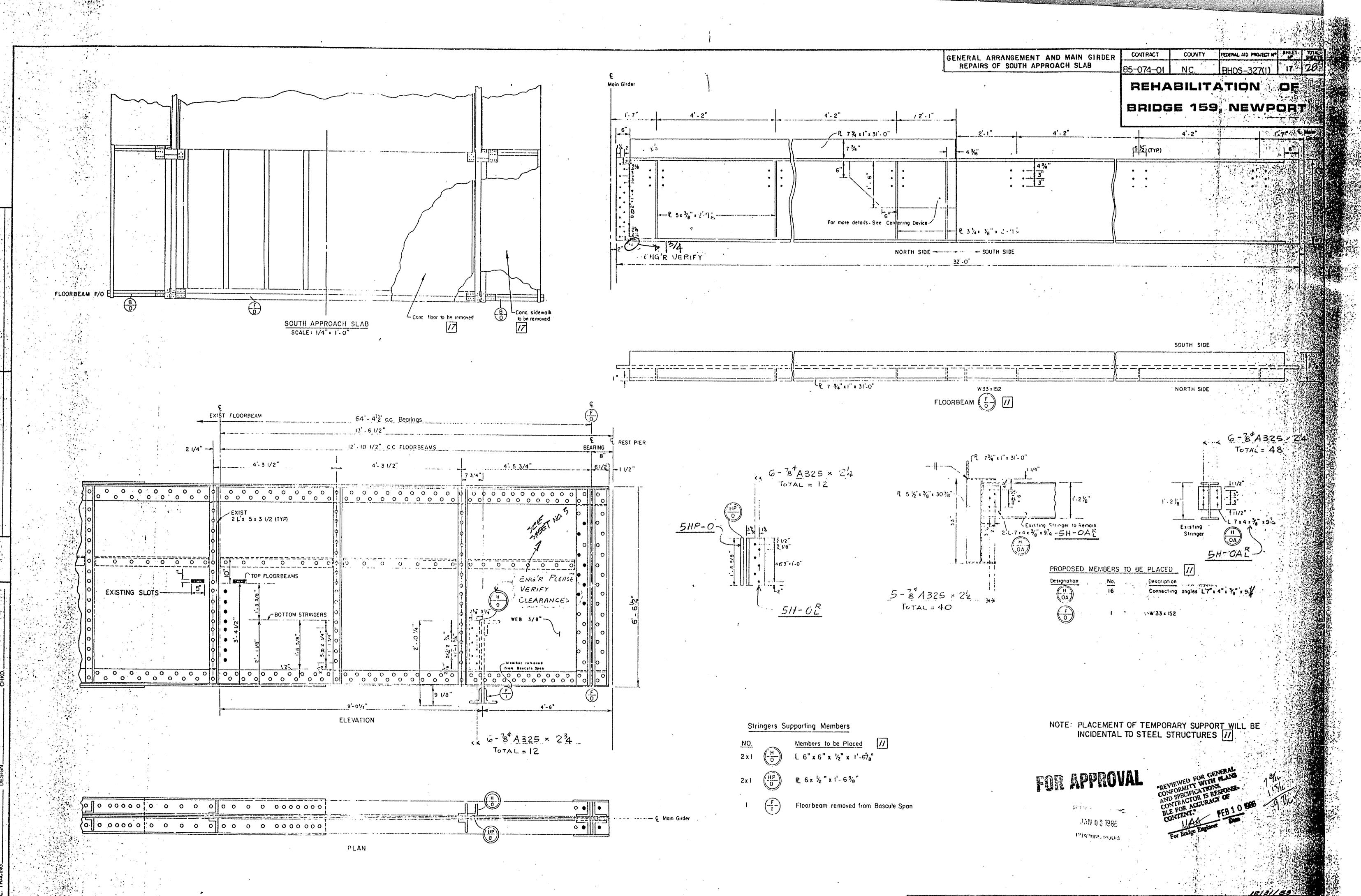








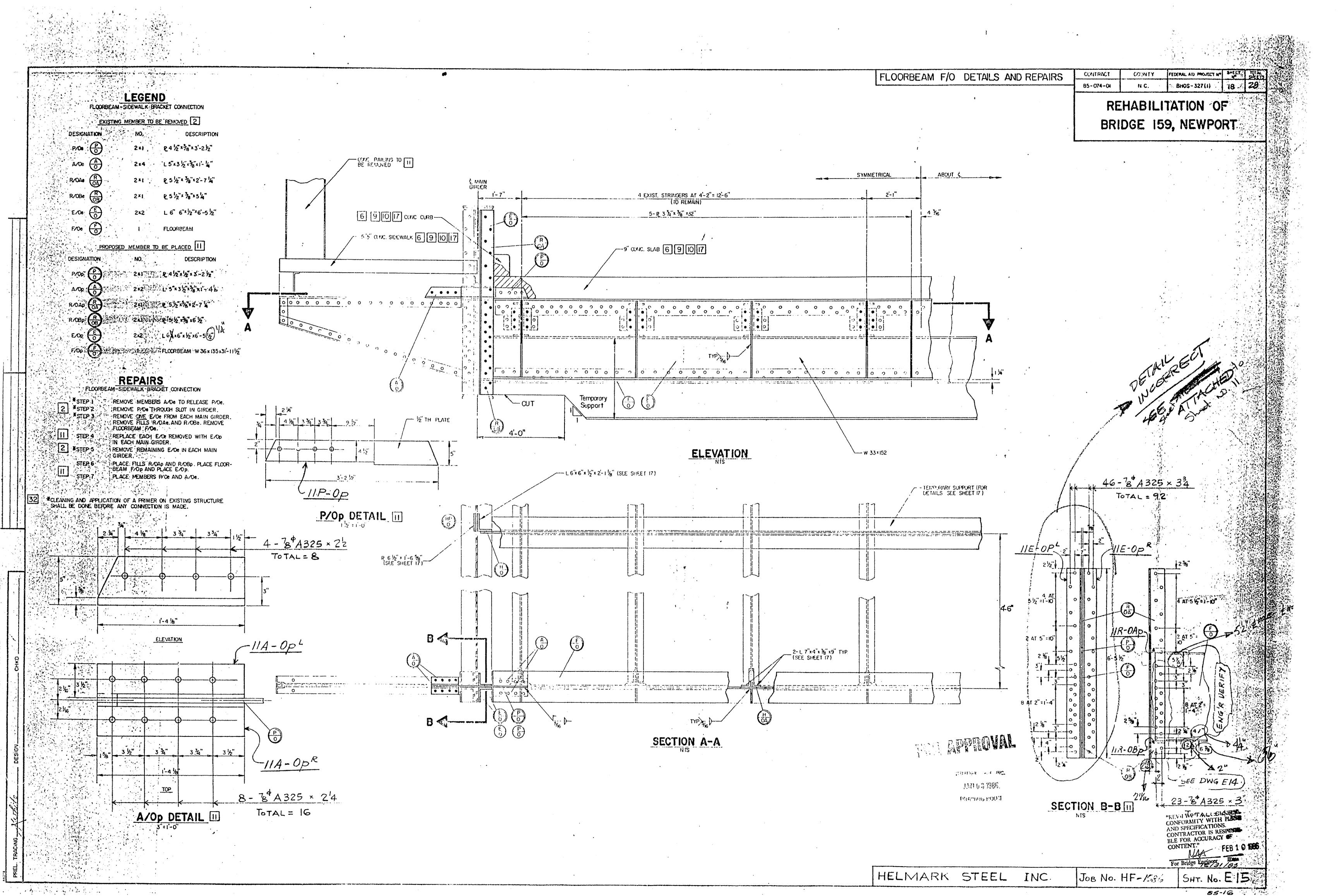




HELMARK STEEL INC J

JOB No. HF - 1286

% SHT NO E



N.C. BHOS-327(1) 23 28 85-074-01 NOTES REHAB.OF BR.159 I.All components of the bearings, excluding hardware, shall be made using steel conforming to ASTM A588.

2.Self lubricating bronze plates shall conform to the requirements of ASTM B-22, cast bronze, alloy no. 911.

Both the top and bottom contact surfaces shall be lubricated and machine finished to a smoothness of 125 micro-inch root mean, square.

3. All contact surfaced of steel components shown thus V— shall also be machine finished to a smoothness of 125 micro-inch root mean. NEWPORT of 125 micro inch root mean square.
4. All swedge anchor bolts, hex nuts , and oversize washers shall conform to ASTM A307 and shall be hot-dipped galvanized conforming to ASTM AI53.

5. All /8" O ASTM A325 type 3 bolts (including the compatible nuts and washers) used to connect the 15%" plate with the bottom flange of the existing main girders shall be mechanically galvanized. Use two washers per bolt, one each under bolt and nut heads.

6. In the double out system, the first nut shall be appropriately tightened and the second nut shall be used to lock the first nut.

7.All exposed surfaces of the bearings shall be painted with inorganic zinc.

8.Existing sole plates and 78" 0 rivets used in connecting the sole plate to the bottom flange of the main girder. shall be removed, with payment to be included under section 210, Removal Of Structions And Obstructions. (Steel Structures) BEARING AND GIRDER 15/16 O holes for 30 C bolts with BUARING hardened washer. Counter there 21/2" x 13/16 deep holes for 76 0 bolt head and waster in 15% & Itack weldbolt head and was ber In recess to : APPROACH SPAN MAIN GIRDER 15/12 and the brie with seciet) - l^l/₂*0 swedge ambre bolt with eversized waster (double not) (typ.all bearings) Counter bore holes 21/2° 0° x3/4° Counte %*0 x 1%* long tapped hole in mesonry plate. Hardened washer. Fill. hove with sealer. _ 21/8° 0 hole for 11/2° 0 Hardered to Sole plate --swedge anchor bull Inot shown? 200 250 BHN Wear plote $-\frac{1}{8}$ Preformed fabric pad. Maschry plate -12 ABI — ELEVATION ELEVATION 2 0 4 spaces & 3/4 : 2/ 0 6 2 SCALE: 1/2 - 1-0 SCALE: 1/2* - 1'-0" SECTION B-B SECTION B-B SCAE: 1/2" - 1-0" SCALE: 1/2" - 1'-0" SECTION A-A 5//2 5//2 SECTION A-A SCALE: 1/2 - 1'-0" SCA'E: 1/2 - 1 0 FOR APPROVAL EXPANSION BEARING AT APPROACH GIRDER EXPANSION BEARING AT BASCULE GIRDER JAN 0 3 1986 DAMAIN ROOM

JOB No. HF-1586

HELMARK STEEL INC.

SHT. No. E 16