38

FEDERAL PROJECT

< EXISTING % CONVEX GROOVE WELD (TYP)

TYPICAL EXISTING STRINGER TO FLOORBEAM WELDED CONNECTION

LIMITS OF PENCIL

ABRASIVE BLASTING,
GRINDING, AND NDT
ON BOTTOM OF

BOTTOM STRINGER

FLANGE.

È FLOORBEAM, 36 WF 194

DECK BOTTOM

STRINGER

24WF84

P-8"X I" X 5'-0"

EXISTING 5/8 FILLET WELD

EXISTING 1/2" CONVEX GROOVE WELD

AREA FOR PENCIL ABRASIVE BLASTING, GRINDING, AND

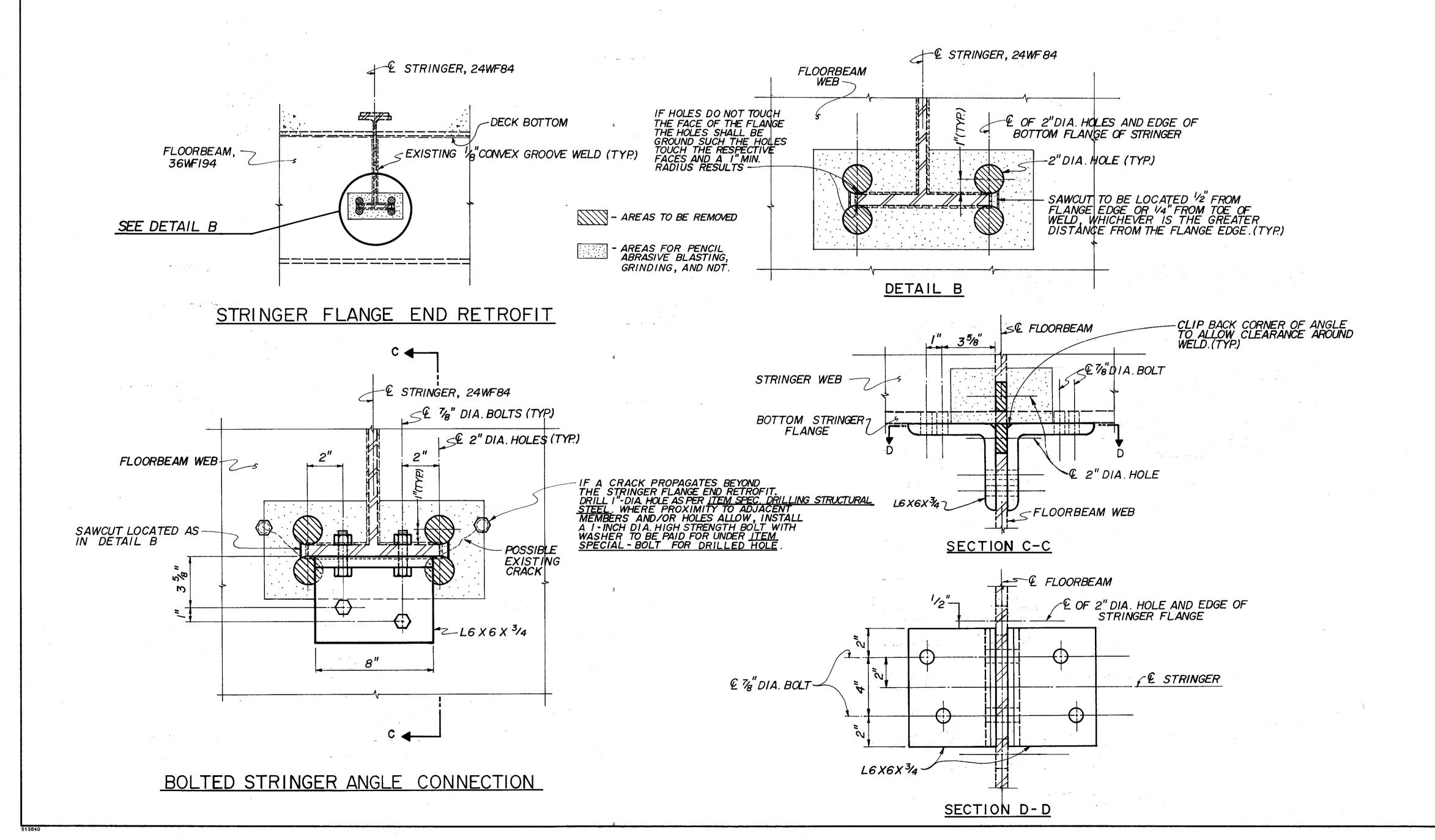
SECTION A-A

<₽ STRINGER, 24WF84

ℒ-8"X I"X 5'-0"

- DECK BOTTOM

FLOORBEAM, 36WF194



ITEM SPECIAL - PENCIL ABRASIVE BLASTING, GRINDING AND NOT OF FLOORBEAM - STRINGER CONNECTION

THIS WORK SHALL CONSIST OF THE FOLLOWING SEQUENCE OF OPERATIONS PERFORMED AT LOCATIONS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER:

- I.) THE CONTRACTOR SHALL CLEAN THE AREA BY PENCIL ABRASIVE BLASTING THE PAINT AND OR RUST FROM THE SURFACE OF THE PLATES AND ADJACENT WELDS.
- 2.) THE ENGINEER, ACCOMPANIED BY THE CONTRACTOR, SHALL CAREFULLY, VISUALLY INSPECT THE CLEANED AREA. GRINDING MAY BE DIRECTED BY THE ENGINEER TO ENHANCE INVESTIGATION FOR CRACK PRESENCE. ALL GRINDING MUST BE DONE CAUTIOUSLY, ESPECIALLY IN TENSION ZONES.
- THE CONTRACTOR SHALL NON-DESTRUCTIVELY TEST (NDT) THE AREA USING MAGNETIC PARTICLE EXAMINATION AND /OR DYE PENETRANT SO THAT THE ENGINEER MAY FURTHER INSPECT FOR CRACKS.
- 4.) IF CRACKS ARE FOUND, THEN THESE CRACKS SHALL BE ISOLATED BY PERFORMING IN ACCORDANCE TO, AND PAID FOR UNDER, ITEM SPECIAL - STRINGER FLANGE END
- 5.) PERFORM THE STEP I THROUGH STEP 3 OPERATIONS ON THE OTHER SIDE OF THIS
- 6.) ALL CRACKS AND /OR CRACK TIPS THAT ARE ACCESSIBLE SHALL BE REMOVED ACCORDING TO, AND PAID FOR UNDER, ITEM SPECIAL - DRILLING STRUCTURAL STEEL, AND ANY CRACKS INACCESSIBLE TO DRILLING SHALL BE REMOVED BY CAREFUL GRINDING OR BY CAREFULLY ENLARGING THE DRILLED HOLES BY GRINDING.

THE ACCEPTED NUMBER OF NDT LOCATIONS AS DESCRIBED IN THIS NOTE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LOCATION, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY TO CLEAN, GRIND AND PERFORM NDT ON BOTH SIDES OF THE LOCATION.

PAYMENT WILL BE MADE AT THE CONTRACT PRICE BID UNDER:

<u>ITEM</u> SPECIAL

EACH

DESCRIPTION

PENCIL ABRASIVE BLASTING, GRINDING AND NDT OF FLOORBEAM - STRINGER CONNECTION

ITEM SPECIAL - STRINGER FLANGE END RETROFIT

THIS WORK SHALL CONSIST OF THE FOLLOWING SEQUENCE OF OPERATIONS PERFORMED ON AREAS WHERE SMALL CRACKS ARE FOUND BY PENCIL ABRASIVE BLASTING, GRINDING AND NOT ON AREAS SHOWN IN THE PLANS:

- I.) DRILL THE FOUR 2-INCH DIAMETER HORIZONTAL HOLES AT THE STRINGER FLANGE ENDS AS SHOWN IN PLANS.
- 2.) SAW CUT THE WEB OF THE FLOORBEAM VERTICALLY FROM ONE HORIZONTAL HOLE TO THE OTHER AS SHOWN IN THE PLANS.
- 3.) IF THE 2-INCH DIAMETER HOLES OF STEP I DID NOT TOUCH THE FLANGE, THE HOLES SHALL BE GROUND WITH A MINIMUM RADIUS OF I-INCH WHICH RESULTS IN THE HOLE TOUCHING THE FLANGE.
- 4.) IF THE EXISTING CRACK ENDS WERE NOT SURROUNDED BY THE DRILLED HOLES AND SAW CUT, THEN THESE CRACK ENDS SHALL BE DRILLED AND PAID FOR AS PER ITEM SPECIAL - DRILLING STRUCTURAL STEEL.

THE ACCEPTED NUMBER OF RETROFITS AS DESCRIBED HEREIN SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LOCATION, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY TO CLEAN, DRILL, CUT, AND GRIND THE STRINGER FLANGE END RETROFIT.

PAYMENT SHALL BE MADE AT THE CONTRACT PRICE BID UNDER:

SPECIAL

EACH

DESCRIPTION

STRINGER FLANGE END RETROFIT

REVISED 11-19-90

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 12 - BRIDGE DEPT.

RETROFIT DETAILS

BR. NO. LAK-90-2342 (L&R) I-90 OVER THE GRAND RIVER

LAKE COUNTY				ОНІ
DESIGNED	DRAWN	i	REVIEWED	REVISED
BGW	GLC	DWL	GWM	SHEET 8B/