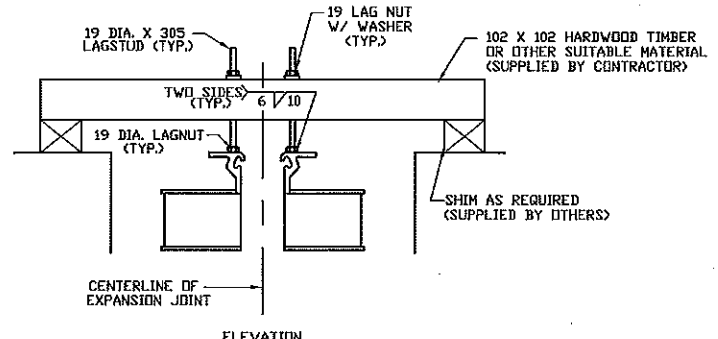
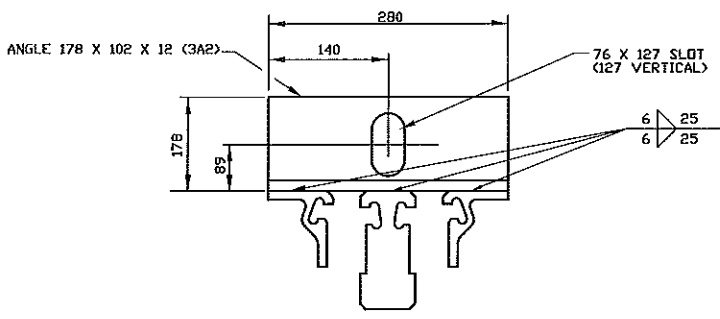


SUPPORT BOX PLAN VIEW



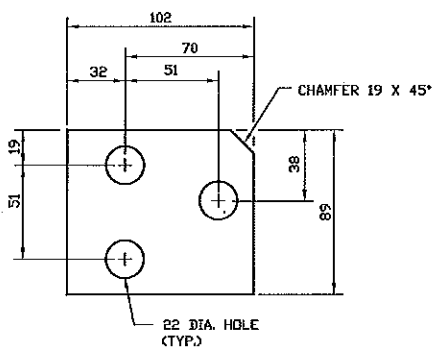
LEVELING ASSEMBLY

- NOTE:**
- LEVELING NUTS SHALL BE LOCATED AT EVERY OTHER SUPPORT BOX.
 - LEVELING NUTS SHALL BE SHOP INSTALLED PARALLEL TO THE EXPANSION JOINT SUPPORT BARS.
 - CONTRACTOR SHALL REMOVE LEVELING NUTS WHEN JOINT IS SET AND GRIND WELDS SMOOTH.
 - CONTRACTOR SHALL MATCH DRILL THE TIMBER WITH THE 19 DIA. LAG NUTS PRIOR TO SETTING THE EXPANSION DAM IN ITS FINAL POSITION.
 - CONTRACTOR SHALL TOUCH UP ANY DAMAGED PAINTED AREAS.
 - FOR REINFORCING DETAILS AND OTHER METHODS OF SUPPORT, SEE REVISED CONTRACT PLANS.

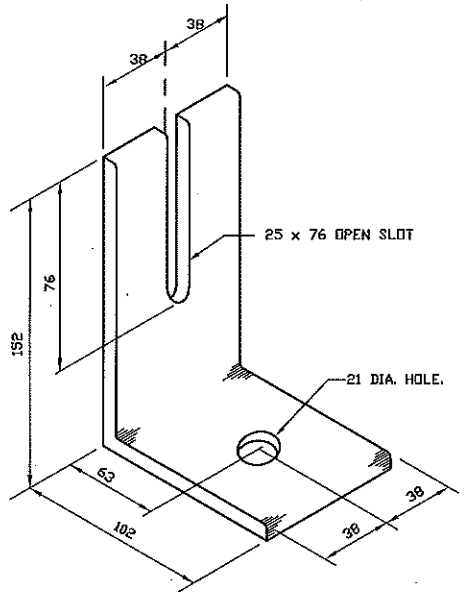


LIFTING DEVICE ASSEMBLY
(THIS IS A TEMPORARY DEVICE)

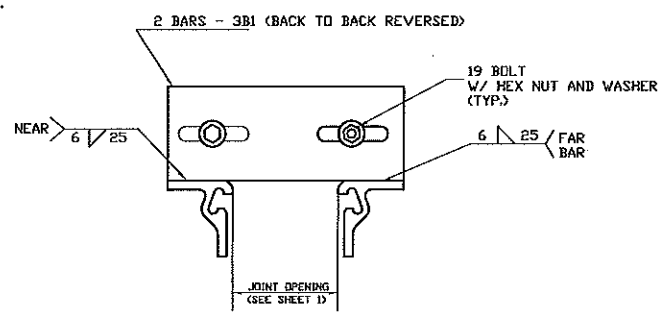
- NOTE:**
- LIFTING ANGLES SHALL BE PLACED BY THE FABRICATOR TO ACHIEVE A LEVEL LIFT FOR PLACEMENT (2 PER JOINT).
 - THE CONTRACTOR SHALL REMOVE AFTER THE JOINT IS SET IN BLOCKOUT, PRIOR TO PRESETTING OF JOINT.
 - THE CONTRACTOR SHALL REMOVE BY GRINDING WELDS SMOOTH.
 - CONTRACTOR SHALL TOUCH UP ANY DAMAGED PAINTED AREAS.



HOLDING PLATE - 3P1
(PLATE THICKNESS - 12)

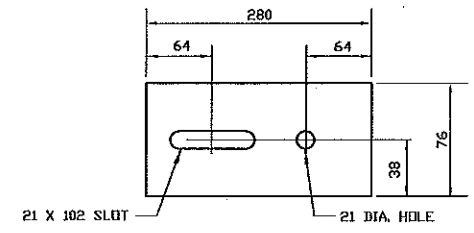


TIE DOWN ANGLE - 3A1
(ANGLE - 152 X 102 X 12 X 76 LONG)



SHIPPING CLAMP ASSEMBLY
(THIS IS A TEMPORARY DEVICE)

- NOTE:**
- SHIPPING CLAMPS SHALL BE SPACED DIRECTLY BETWEEN SUPPORT BOXES, PARALLEL TO THE CENTERLINE OF THE SUPPORT BAR, AND BETWEEN ENDS OF JT. AND FIRST & LAST BOXES.
 - EACH SHIPPING CLAMP ASSEMBLY SHALL INCLUDE:
(2) BAR - 3B1
(2) 19 DIA. X 64 BOLT
(2) 19 HEX NUT
(2) 19 STD. WASHERS
 - CONTRACTOR TO REMOVE SHIPPING CLAMPS WHEN JOINT IS SET, GRIND WELDS SMOOTH, AND TOUCH ANY PAINTED AREAS.



DETAIL - 3B1

MATERIAL SPECIFICATIONS

STEEL EDGE & CENTER BEAMS - All beams are made of ASTM A-588 grade steel and have grooves which grip the neoprene locking seal.

NEOPRENE LOCKING SEAL - The neoprene locking seal is bonded to the steel beams with Prima-Lub Adhesive. The neoprene seal is designed to absorb all joint movements. The strip-seal shall be extruded polychloroprene meeting the requirements of ASTM D2628 with the exception of the recovery and compression deflection test requirements.

COMPRESSION SPRING C-306 - This compression spring is composed of urethane, epoxy and 1.2mm thick teflon sheet. The compression spring sits on top of the support bar.

BEARING C-307 - The bearing is composed of urethane, epoxy and 1.2mm thick teflon sheet on which the support bar slides on.

CONTROL SPRING - The control spring which is located between the support bars act to equalize the expansion of each seal. The control spring is made of urethane.

STAINLESS STEEL SHEETING - Stainless steel is used on the sliding surfaces of the support bar that contact the teflon surface of the bearing and compression spring. The stainless steel shall be ASTM A167, Type 304, No. 2B finish.

PRIMA-LUB ADHESIVE - Prima-lub Adhesive is used to bond the neoprene locking seal to the steel shapes. This adhesive shall be a one-part moisture curing polyurethane and hydrocarbon solvent mixture.

INSTALLATION PROCEDURE

- Compare the dimensions of SECTION A-A on sheet #1 with the field dimensions. Correct as necessary.
- Lift and then place the expansion joint into blockout. While joint is suspended install leveling devices and adjust to proper grade and elevation. Remove lifting devices, and loosen shipping clamp nuts.
- Preset the expansion joint opening using the structure temperature and as determined by the Engineer in charge. Retighten nuts at shipping clamps.
- Check joint for alignment with curbs (as required).
- Temperature and joint opening should be checked for any discrepancies from initial adjustment.
- Complete all connections to the superstructure.
- Prior to placement of concrete, all prestress devices shall be removed. Devices on top of the joint may remain if their location will not interfere with concrete placement or expansion joint performance.
- Contractor shall at this time have all required formwork in place.
- All concrete placement shall be in accordance with the specifications.
- Upon completing concrete placement operations, loosen nuts at shipping clamps. The Engineer shall determine when removal of the leveling devices will be permitted.
- Contractor shall remove all temporary devices from top of joint and touch-up all damaged painted surfaces.

STATE: NORTH CAROLINA
 COUNTY: CRAVEN
 F.A. PROJECT NO.: MHF-17(10)
 PROJECT NO.: 8.1170804 (B-2531B)
 WBA PRODUCT NO.: STM41933AP, AQ & AR
 JOINT TYPE: STRIP SEAL MODULAR - STM600

NO.	DESCRIPTION	NAME	DATE
4			
3			
2			
1			

REVISIONS

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A DIVISION OF **HARRIS SPECIALTY CHEMICALS, INC.**

DESIGNED BY: MN	DATE: 8/21/96
CHECKED BY: RH	DATE: 8/30/96
SCALE: N.T.S.	WBA JOB NO.: 41933
SHEET NO.: 3 OF 4	DRAWING NO.: B-16454

PROJECT: **NEUSE RIVER BRIDGE**

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