GENERAL NOTES:

COMPRESSION SEAL: Furnish material conforming to TOS. 44.   THE SEAL CONFIGURATION SHOULD BE SIMILAR TO THE DETAILS SHOWN IN FIG. ACCEPTANCE MANUFACTURER: AND O. D. Bowk

Joints in Compression Seals: Furnish Seals in one continuous piece unless otherwise approved by the Engineer.

ARMOR STEEL: All channel shapes, angle shapes and all cross frame connection gusset plates shall be ASTM 36, grade 50 or 50. All other steel parts (including rebar), shall be ASTM 36, grade 50, 50 or 50.

Joints in Armor Steel: Shop or field joints in the armor shall be complete penetration welds gound flush where in contact with the seal and the rebar.

ARMOR COATING: Coat all steel parts of the joint assembly according to TOS.

DO NOT FIELD PAINT METALIZED SURFACES EXCEPT AS NOTED. CLEAN AND PAINT THE AREAS ON THE GUSSET PLATES DAMAGED DURING CHRISTMAS INSTALLATION IN CONFORMANCE WITH THE STRUCTURE'S PAINT SYSTEM. PROTECT THE METALIZED COATING WHEN BLASTING OR COATING ADJACENT STEEL MEMBERS. OVERSPRAY NEED NOT BE REMOVED.

TEMPORARY SUPPORTS: The fabricator shall design and install temporary supports to resist shipping, erection and construction forces without damage to the steel armor or coating. These supports shall be adjustable in the field to account for variable temperature settings. Install the supports after the fabrication and coating is complete.

CONSTRUCTION PROCEDURE:

1. Place Superstructure concrete in the span adjacent to the abutment prior to placing abutment backwall concrete.

2. Not more than four hours prior to the day's peak ambient temperature, set abutment expansion joint width to dimension "A" which shall be determined as follows:

   \[ A = \frac{D_x}{D_y} \times 10 \]  
   
   \( D_x \) = Adjustment (inches) for a peak ambient temperature other than 60°F (see chart).

3. Place backwall concrete during stable or rising ambient temperatures and conclude placement at or immediately before the day's peak ambient temperature.

4. Loosen any temporary end cap bolts after initial set of concrete, preferably not later than two hours after conclusion of concrete placement.

NOTES TO DESIGNER:

DESIGN LIMITS: This design is intended for structures with skew angles not greater than 15°, horizontal grades of 5% or less and the span is not greater than 150 feet.

BEAM ENDS: For structures shall be made vertical. Designers shall supply details for structures with road grades greater than 5%.

COMPRESSION SEALS: At fixed bearings shall be as shown where dimension "A" = 24 at any ambient temperature.

DIMENSION "A" ADJUSTMENT \( D_x \)

\[ D_x = \frac{D_y}{D_x} \times 10 \]  

\( D_x \) = ANTICIPATED PEAK AMBIENT TEMPERATURE (°F).

\( D_y \) = ACTUAL DISTANCE, IN FEET, TO THE THERMAL NEUTRAL EXTENSION POINT OF THE SUPERSTRUCTURE ALONG THE CENTERLINE OF THE ROADWAY. THE THERMAL NEUTRAL POINT OF THE SUPERSTRUCTURE IS THE POINT THAT HAS ZERO HORIZONTAL MOVEMENT DURING TEMPERATURE CHANGES.

\( D_{bc} \) = MODIFIED DISTANCE FOR DETERMINING JOINT ADJUSTMENT (FEET).

\( \theta \) = SKEW ANGLE OF EXPANSION JOINT.

LOCATION OF SEAL RETAINER BARS

COMPRESSION SEAL DETAIL

SEE THE MANUFACTURER'S CATALOGUE FOR THE SEAL ACTUALLY CHOSEN FOR USE.