1. SEE STD DWG BA 4B1 FOR TRANSITION COMPONENTS.
2. SEE PLAN SET FOR BARRIER TYPE.
3. DO NOT CONNECT AN APPROACH OR TRAILING TRANSITION TO CONSTANT SLOPE BRIDGE PARAPET OR FULL HEIGHT CONSTANT SLOPE BARRIER. A PRECAST CONSTANT SLOPE TRANSITION SECTION FOR CRASH CUSHIONS AND W-BEAM GUARDRAIL, STD DWG BA 3 SERIES IS REQUIRED OR WHEN INSTALLING ON CAST IN PLACE CONSTANT SLOPE BARRIER THE APPROACH AND TRAILING ENDS MUST BE DROPPED DOWN ACCORDING TO STD DWG BA 3 SERIES.
4. INSTALL APPROACH TRANSITION ON THE TRAILING END OF A BARRIER OR BRIDGE PARAPET ON 2 LANE 2 WAY OR MULTI LANE NON-TRAILING ENDS MUST BE DROPPED DOWN ACCORDING TO STD DWG BA 3 SERIES.
5. INSTALL APPROPRIATE CURB SECTION FOR TYPE OF BARRIER BEING USED. SEE STD DWG BA 4B3 FOR CURB TYPE. INSTALL BARRIER CONNECTION PIN AND STABILIZATION PINS WHERE REQUIRED. REFER TO BA 1 OR BA 3B SERIES STD DWGS FOR STABILIZATION PIN REQUIREMENTS.
6. DO NOT USE ALL TREAD ROD.
7. COMPLETE SITE PREPARATIONS PRIOR TO INSTALLING TRANSITION.
8. INSTALL APPROPRIATE CURB SECTION FOR TYPE OF BARRIER BEING USED. SEE STD DWG BA 4B3 FOR CURB TYPE. INSTALL BARRIER CONNECTION PIN AND STABILIZATION PINS WHERE REQUIRED. REFER TO BA 1 OR BA 3B SERIES STD DWGS FOR STABILIZATION PIN REQUIREMENTS.
9. DO NOT USE ROTARY PERCUSSION DRILL. CORE DRILLING REQUIRED.

**PLAN VIEW**

**W-BEAM GUARDRAIL TRANSITION TO STANDARD BARRIER (NEW JERSEY SHAPE)**

**PLAN VIEW**

**W-BEAM GUARDRAIL TRANSITION TO CONSTANT SLOPE BARRIER**

**ATTACHMENT HARDWARE: USE WITH BOTH TYPES OF BARRIER:**

- 4-7/8 INCH DIA. HEX HEAD BOLTS, WITH 1 3/4 INCH ROUND FLAT WASHER UNDER EACH BOLT HEAD. BOLT LENGTH VARIES BASED ON BARRIER TYPE AND BOLT LOCATION.
- 3-1/2 INCH X 3-1/2 INCH SQUARE PLATE WASHER WITH A CENTER HOLE 15/8 INCH DIA.
- 7/8 INCH LOCK WASHER, PLACED ON TOP SQUARE WASHER
- 7/8 INCH HEX NUTS [AASHTO M 291M]

**ALL HARDWARE GALVANIZED**