|     | OTES:<br>ELASTOMERIC BEARINGS SHALL CONFORM TO SECTION 408 OF THE NJTA<br>STANDARD SPECIFICATIONS.  |   |                            |
|-----|---|---|----------------------------|
| 2.  | ALL PLATES, KEEPER ANGLES AND PINS SHALL BE ASTM A709, GRADE 36, 50, OR<br>50W. STEEL SURFACES OF BEARING ASSEMBLIES SHALL BE COATED IN ACCORDANCE<br>WITH THE STANDARD SUPPLEMENTAL SPECIFICATIONS. BEARINGS FOR STEEL<br>SUPERSTRUCTURES SHALL BE PAINTED. BEARINGS FOR CONCRETE SUPERSTRUCTURES<br>SHALL BE GALVANIZED OR ZINC METALIZED. ANY DAMAGE TO THE GALVANIZED<br>SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780.   | LOC   | ATION                      |
|     | STEEL LAMINATES SHALL BE ASTM A709,A36 OR AIOII GRADE 36. SMOOTH AND<br>DEBURR CUT STEEL PLATES BY GRINDING.GRIT BLAST AND DEGREASE ALL STEEL<br>PLATES.DO NOT GALVANIZE OR METALIZE STEEL LAMINATES.   | ** H  | NE WAY                     |
|     | FULLY THREADED ANCHORS AND HEX HEADED ANCHOR BOLTS SHALL CONFORM<br>TO ASTM F1554, GRADE 105. SWEDGED ANCHOR BOLTS WITH THREADED ENDS<br>MAY BE SUBSTITUTED AT THE APPROVAL OF THE ENGINEER. THREADED COUPLER<br>NUTS SHALL BE HEAVY HEX NUTS CONFORMING TO ASTM A563, GRADE A OR SHALL<br>BE FABRICATED FROM APPROVED MATERIAL. WASHERS SHALL CONFORM TO ASTM<br>F436. ANCHOR BOLTS, COUPLER NUTS, NUTS AND WASHERS SHALL BE HOT DIP<br>GALVANIZED IN ACCORDANCE WITH ASTM A153. ANY DAMAGE TO THE GALVANIZED<br>SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A780.                            | BEVELED SOL<br>PLATE<br>MT wr   |                            |
| 5.  | MASONRY PLATES SHALL BE PROVIDED FOR ALL BEARING ASSEMBLIES. A<br>MINIMUM $1\frac{1}{2}$ " THICK PLATE SHALL BE USED.<br>(SEE NOT   | \   |                            |
|     | SOLE PLATES SHALL BE BEVELED AS NECESSARY TO ACCOMMODATE THE<br>VERTICAL GEOMETRY OF THE SUPERSTRUCTURE. THE SOLE PLATE SHALL BE BEVELED<br>IF THE LONGITUDINAL GRADE OF THE BOTTOM FLANGE IS 1% OR MORE OR IF THE<br>REQUIRED BEVEL IS $\frac{1}{8}$ " OR MORE. UNDER FULL DEAD LOAD, THE ELASTOMERIC<br>PAD AND THE BOTTOM OF THE SOLE PLATE SHALL BE TRUE LEVEL. A MINIMUM<br>THICKNESS OF $\frac{1}{2}$ " AT THE CENTER LINE OF THE BEARINGS SHALL BE MAINTAINED.   |   |                            |
|     | DETAILS OF KEEPER ANGLES AND STIFFENER PLATES WHERE REQUIRED BY DESIGN SHALL<br>BE INCLUDED IN THE CONTRACT PLANS.SEE THE CONTRACT PLANS FOR DETAILS.   |   | -                          |
|     | LAMINATED ELASTOMERIC BEARING PADS SHALL BE VULCANIZED TO THE BEVELED<br>SOLE AND MASONRY PLATES DURING FABRICATION. WHERE SIZE OR GEOMETRY OF<br>THE BEVELED SOLE OR MASONRY PLATES MAKE VULCANIZATION IMPRACTICAL,<br>AT THE PERMISSION OF THE ENGINEER, THE CONTRACTOR MAY VULCANIZE THE<br>ELASTOMERIC BEARINGS TO LOAD PLATES. THE LOAD PLATES SHALL THEN BE SHOP<br>WELDED TO THE SOLE AND MASONRY PLATES. THE USE OF OPTIONAL LOAD PLATES,<br>ASSOCIATED WELDING, AND ANY REQUIRED ADJUSTMENT TO THE SUBSTUCTURE<br>BEARING SEAT ELEVATION(S) SHALL BE AT NO ADDITIONAL COST TO THE AUTHORITY. | øp PIN DIA.<br>(SEE "BEARIN<br>= Z<br>E   |                            |
|     | THE CONTRACTOR SHALL PROTECT THE BEARINGS FROM DAMAGE DUE TO SHEAR<br>DEFORMATION OF BEARING PADS CAUSED BY THE APPLICATION OF THE GIRDER<br>SELF-WEIGHT AND DECK DEAD LOAD. THE METHOD OF PROTECTION SHALL BE<br>DEFINED IN THE BEARING INSTALLATION SCHEME AND SUBMITTED AS A SHOP<br>DRAWING IN ACCORDANCE WITH SECTION 104.08 OF THE STANDARD SPECIFICATIONS.   | Fm<br>Fm<br>Fm/2<br>Fm/2<br>Fm/2<br>Fm/2  |                            |
|     | THE FILLET WELD BETWEEN THE BOTTOM FLANGE AND THE SOLE PLATE SHALL<br>BE MADE AFTER THE DECK HAS BEEN POURED AND THE BEARINGS HAVE BEEN<br>SET INTO FINAL POSITION. THIS WELD SHALL BE MADE WHEN THE AMBIENT<br>TEMPERATURE IS BETWEEN 40°AND 80°F. IF THE CONTRACTOR ELECTS TO<br>INSTALL BEARINGS WHEN THE AMBIENT TEMPERATURE IS OUT OF THIS ALLOWABLE<br>RANGE AN INSTALLATION PROCEDURE FOR RESETTING THE BEARINGS WHEN THE<br>TEMPERATURE IS WITHIN THIS RANGE OR DEFORMING THE BEARINGS SO THAT<br>THEY PERFORM AS IF THEY WERE SET AT 68°F SHALL BE REQUIRED.                                 |   |                            |
|     | WELDING PROCEDURES, OVERALL FABRICATION METHODS AND QUALITY INSPECTION<br>PROCEDURE SHALL BE INCLUDED AS A WRITTEN PROCEDURE WITH THE SHOP<br>DRAWING SUBMISSION.   |   | (Å)                        |
|     | WELDING SHALL BE IN ACCORDANCE WITH CURRENT ANSI/AASHTO/AWS BRIDGE<br>WELDING CODE DI.5, WITH LATEST AASHTO REVISIONS. MT INDICATES MAGNETIC<br>PARTICLE TESTING.   | FIXE  | ) BE                       |
| 3.  | SIZE SHALL BE $\frac{5}{16}$ ". THE TRANSVERSE JOINTS BETWEEN THE BOTTOM FLANGE   |   |                            |
|     | TEMPERATURE SHALL BE CONTROLLED BY THE WELDING PROCEDURES AND "BEARING<br>TEMPERATURE INDICATING CRAYONS OR OTHER DEVICES SUCH AS<br>PYROMETRIC STICKS AS APPROVED BY THE ENGINEER. QUENCHING   | KNESSES SEE<br>TABLE"   | 5,                         |
| 5.  | ANCHOR BOLTS MAY BE SET IN FORMS PRIOR TO POURING OF THE SUBSTRUCTURE<br>CONCRETE OR SET IN OVERSIZED (3" DIAMETER MAX.) CORRUGATED METAL SLEEVES<br>PREVIOUSLY PLACED. ANCHOR ROD HOLES MAY BE CORE DRILLED OR STAR DRILLED<br>ONLY AS APPROVED BY THE ENGINEER. WASH AND DRY HOLE BEFORE FILLING WITH<br>RESIN OR EPOXY GROUT IN ACCORDANCE WITH SUBSECTION 403.09(B) OF THE<br>STANDARD SPECIFICATIONS. DRILLED HOLE DIAMETER SHALL BE AS PER EPOXY<br>GROUT OR RESIN MANUFACTURER RECOMMENDATIONS.  | IG FAD<br><u>1<sup>1</sup>/2" MIN. DIA</u><br>OR THREADE<br>INTO MASON<br>WELDING AL<br><b>TYPI</b> | D FULL<br>RY PLA<br>LOWED) |
| 16. | DESIGN OF THE EMBEDDED PLATE, PIN PLATE, WELDED STUDS AND<br>COUNTERSUNK SCREWS SHALL BE THE AS SHOWN IN THE CONTRACT PLANS.  | PAD   |                            |
| 7.  | ELASTOMERIC BEARINGS WITH ANGLES BETWEEN & BEARING AND & GIRDER<br>OTHER THAN 90° SHALL BE AS SHOWN IN THE CONTRACT PLANS.  | (EXP  | ANSION                     |
|     | DESIGN OF THE PTFE/S.S. SLIDING SURFACE SHALL BE AS SHOWN IN THE CONTRACT<br>PLANS. A TABLE PROVIDING THE INITIAL OFFSET FROM CENTERLINE FOR VARIOUS<br>INSTALLATION TEMPERATURES SHALL BE PROVIDED.  |   |                            |

