**NOTES:**

1. **Pretensioning Strands, Leveling Bolts and Grout for Grout Pad Under SIP Deck Panel** shall be as specified in the Special Provisions.

2. **LooSEN THE LEVELING BOLT BY TWO TOURS AFTER THE GROUT HAS REACHED THE DESIGN STRENGTH SPECIFIED IN SECTION 9-20.3(2).** Leveling Bolt shall be galvanized after fabrication in accordance with AASHTO M232.

3. For skewed end panels, adjust the Leveling Bolt locations longitudinally along the edge of the panel, such that each panel will have 4 bolts after the panel is sawcut. The panel may be cast square and sawcut to fit the plan deck.

4. **The Contractor may submit for approval an alternate lift point locations, lifting embrasures and devices in accordance with Section 6-02.3(28). Lift Point Locations and lifting embrasures and devices shall be shown on the shop plans submitted for approval. Design calculations shall be submitted with the shop plans.**

5. **The Contractor may submit an alternate method for forming grout pad under SIP Deck Panel at exterior face of girder flange, refer also to special provisions.**

### Deck Panel Details

- **GIRDERS**
  - W42G, W50G, W58G
  - W74G

- **PT TUBES**
  - W32BTG, W38BTG, W62BTG

- **MIN. CONCRETE COMP. STRENGTH**
  - @ 28 Days: F'C (KSI)
  - @ Release: F'CI (KSI)

- **MIN. EDGE OF FLANGE TO LEVELING BOLT DIMENSION**

- **MAXIMUM DECK PANEL OVERLAP**

- **NOTES TO DESIGNERS:**
  - Provide enough deck panel overlap on girder flange to accommodate fabrication tolerances for the girder and deck panel, while still maintaining a sufficient bearing seat. The girder flange and deck panel shall be checked for structural adequacy.
  - **MIN. DECK THICKNESS** shall be 8½" with 5" concrete cast-in-place topping.

- **LEVELING BOLT TO COIL LOOP CONCRETE INSERT**

- **Pretensioning Strand (TYP.)**
  - P2 #4 LIFTING BAR (TYP.)
  - P1 #5 (TYP.)
  - P3 #4

- **REINFORCING (DECK PANEL)**

- **NOTES:**
  - Pretensioning Strand, Leveling Bolts and Grout for Grout Pad Under SIP Deck Panel shall be as specified in the Special Provisions.
  - Leveling Bolt shall be galvanized after fabrication in accordance with AASHTO M232.
  - The panel may be cast square and sawcut to fit the plan deck.
  - **Lift Point Locations and lifting embrasures and devices shall be shown on the shop plans submitted for approval. Design calculations shall be submitted with the shop plans.**
  - **The Contractor may submit for approval an alternate lift point locations, lifting embrasures and devices in accordance with Section 6-02.3(28). Lift Point Locations and lifting embrasures and devices shall be shown on the shop plans submitted for approval. Design calculations shall be submitted with the shop plans.**
  - **The Contractor may submit an alternate method for forming grout pad under SIP Deck Panel at exterior face of girder flange, refer also to special provisions.**

### Notes for Designers

- Verify that the insert does not interfere with reinforcement. Insert shall be centered between pretensioning strands.
- Verify that the load on the insert and rod is acceptable. The first utility insert shall be placed within 2'-0" of the end diaphragm. See BDM chapter 10, section 10.8.6 for insert design.

### Details

- **Detail 1**
  - **HANGER INSERT**
  - **HANGER ROD**
  - **BENDING FORCE**

- **Detail 2**
  - **PRETENSIONING STRAND**
  - **LEVELING BOLT AND CONCRETE INSERT**
  - **LEVELING BOLT TO COIL LOOP CONCRETE INSERT**

- **Detail 3**
  - **LEVELING BOLT TO COIL LOOP CONCRETE INSERT**
  - **LEVELING BOLT TO COIL LOOP CONCRETE INSERT**

- **Detail 4**
  - **LEVELING BOLT TO COIL LOOP CONCRETE INSERT**
  - **LEVELING BOLT TO COIL LOOP CONCRETE INSERT**

### Utility Hanger Notes to Designers

- Verify that the insert does not interfere with reinforcement. Insert shall be centered between pretensioning strands.
- Verify that the load on the insert and rod is acceptable. The first utility insert shall be placed within 2'-0" of the end diaphragm. See BDM chapter 10, section 10.8.6 for insert design.
- The minimum deck thickness shall be 28" with 0" concrete cast-in-place topping.

### Pretensioning Strand Details

- **COPPER B-LINE B22-287, POWERSTRUT PS 349-227, UNISTRUT P32??, OR APPROVED EQUAL (TYP.) WITH SPRING NUT. CHASE THREADS ON HANGER ROD FOR THREAD COMPATIBILITY WITH SPRING NUT. INSERT TO BE INSTALLED LEVEL, CONDITIONALLY AND TRANSVERSALLY PLACE INSERT TO PROVIDE FOR TRANSVERSE ADJUSTMENT OF HANGER RODS. HANGER RODS SHALL NOT BE WITHIN 2" OF THE END OF THE INSERT. FOR INSERT LOCATIONS, SEE UTILITIES HANGER DETAILS SHEET.