

PRECAST DECK PANEL CONSTRUCTION SEQUENCE

1. THE BRIDGE IS DESIGNED TO ALLOW THE CANTILEVERED ENDS OF THE GIRDER TO DEFLECT UPWARDS DURING ERECTION OF THE DECK PANELS, DECK PANEL GROUTING AND PLACEMENT OF DECK CLOSURE POURS. THE GIRDER ENDS SHALL NOT BE VERTICALLY RESTRAINED AGAINST UPLIFT UNTIL THE DECK PANELS ARE IN PLACE AND THE CLOSURE POURS ARE COMPLETED. THE NET UPWARD DEFLECTION OF THE GIRDER ENDS DUE TO THE STEEL WEIGHT AND NON-COMPOSITE DEAD LOAD DUE TO THE SLABS, AND CLOSURE POURS IS ANTICIPATED TO BE 1 7/8". THE ERECTION PLAN AND PROPOSED PANEL PLACEMENT SEQUENCE SHALL CONSIDER UPLIFT AND/OR TEMPORARY BLOCKING REQUIREMENTS AT THE ABUTMENTS.
2. AFTER THE SUPERSTRUCTURE STEEL HAS BEEN ERECTED, ELEVATIONS SHALL BE TAKEN AT THE LOCATION OF EACH LEVELING DEVICE ALONG THE TOP OF EACH GIRDER UNDER THE DIRECTION OF THE ENGINEER. THESE ELEVATIONS SHALL BE USED IN DETERMINING THE BLOCKING DISTANCE FOR THE PRECAST PANELS.
3. PRESSURE WASH SURFACES OF SHEAR KEYS.
4. PRESET LEVELING BOLTS TO ANTICIPATED HEIGHT
5. PLACE ALL PRECAST DECK PANELS ON GIRDERS.
6. ADJUST LEVELING DEVICES ON DECK PANELS TO BRING PANELS TO GRADE. ASSURE ALL BOLTS TO BE AT LEAST SNUG.
7. THE CONTRACTOR SHALL SUBMIT A GROUTING PLAN AND DESIGN CALCULATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISION AND ALSO IN ACCORDANCE WITH THE FHWA MANUAL ENTITLED "POST-TENSIONING TENDON INSTALLATION AND GROUTING MANUAL". THE GROUTING PLAN SHALL BE FOLLOWED FOR THE OPERATIONS LISTED BELOW.
8. INSTALL LONGITUDINAL POST-TENSIONING STRAND (UN-TENSIONED) IN DUCTS AND SEAL JOINTS IN DUCTS BETWEEN DECK PANELS. THE FHWA MANUAL ENTITLED "POST-TENSIONING TENDON INSTALLATION AND GROUTING MANUAL MAY 2013" IS TO BE FOLLOWED FOR THIS OPERATION.
9. PLACE APPROVED FLOWABLE NON-SHRINK GROUT IN TRANSVERSE JOINTS ONLY. THE GROUT SHALL BE RODDED OR VIBRATED TO ENSURE ALL VOIDS ARE FILLED.
10. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE ECCENTRICITY OF THE POST TENSIONING IN THE DECK. THE DESIGN OF POST-TENSIONING SHALL CONSIDER THE POTENTIAL FOR BUCKLING OF THE SLABS. IF REQUIRED, DESIGN AND IMPLEMENTATION OF EXTERNAL TEMPORARY BRACING TO PREVENT BUCKLING OF THE DECK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. AFTER THE GROUT IN THE TRANSVERSE JOINTS HAS ATTAINED A STRENGTH OF 2000 PSI, THE LONGITUDINAL POST-TENSIONING STRANDS MAY BE STRESSED. THE CONTRACTOR SHALL DETERMINE THE JACKING FORCE AND STRAND DISTRIBUTION REQUIRED TO ACHIEVE THE MINIMUM FINAL POST-TENSIONING STRESS OF 600 PSI IN THE DECK ACCOUNTING FOR ALL LOSSES.
12. GROUT POST-TENSIONING DUCTS.
13. INSTALL SHEAR CONNECTORS IN ALL BLOCKOUTS.
14. GROUT ALL HAUNCHES AND SHEAR CONNECTOR BLOCKOUTS WITH AN APPROVED FLOWABLE NON-SHRINK GROUT.
15. AFTER THE GROUT IN SHEAR CONNECTOR BLOCKOUTS HAS ATTAINED A STRENGTH OF 3000 PSI, ANY PORTION OF THE TEMPORARY ANCHORAGE FOR EXTERNAL BRACING THAT IS TO REMAIN IN PLACE SHALL BE CUT OFF A MINIMUM OF 11/2 INCHES BELOW THE DECK SURFACE AND CAVITIES SHALL BE DRESSED WITH CONCRETE REPAIR MATERIAL FROM THE AGENCIES APPROVED PRODUCTS LIST. THE REPAIR MATERIAL SHALL BE CURED AS SPECIFIED BY THE MANUFACTURER.
16. REMOVE VERTICAL ADJUSTMENT HARDWARE AND GROUT VOIDS.
17. PLACE LONGITUDINAL CLOSURE POUR, FOLLOWED BY DECK END CLOSURE POURS.
18. ALL CASTING TOLERANCES SHALL BE IN ACCORDANCE WITH PCI FULL DEPTH DECK PANEL GUIDELINES, 2ND EDITION, 2011.



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