

Inspector Quantlist Report 20170913

Diary Number: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_

Date: \_\_\_\_\_

**Division IV: Surface Treatments and Pavements**

**Title: PCCP (Joints, Dowels and Tie-Bars)**

|             |
|-------------|
| Lot Number  |
| Direction   |
| Pour Number |
| Station     |
| Location    |
| Lane Number |

| Attribute Numbers | Compliance | Narratives   | References  |
|-------------------|------------|--|---|
| 0.                |            | All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).  | Construction Manual 108.04  |
| 1.                |            | Work is being documented in the Inspector daily diary.   | Construction Manual 105.11  |
| 2.                |            | Certificates of compliance conforming to the requirements of Subsection 106.05 of the Standard Specifications are on file for preformed expansion joint filler.                              | Standard Specifications 1011-6<br>Standard Specifications 106.05    |
| 3.                |            | A certificate which properly identifies epoxy coated bars delivered to the project and verifies that the material is the same composition as used for the prequalification bars, is on file. | Standard Specifications 1003-5.02                                   |
| 4.                |            | Certificates of compliance conforming to the requirements of Subsection 106.05 of the Standard Specifications are on file with each shipment of coated steel.                                | Standard Specifications 1003-5.03<br>Standard Specifications 106.05 |
| 5.                |            | The type and location of all joints are as per the plans, specifications and applicable C-Standards.   | Standard Drawing C-07.01<br>Standard Specifications 401-3.05        |
| 6.                |            | The faces of all joints are constructed perpendicular to the concrete pavement surface.  | Standard Specifications 401-3.05                                    |
| 7.                |            | On Longitudinal Construction (LC) joints when load transfer dowels are required, 5/8 inch diameter by 20 inch epoxy coated smooth dowels are placed in mid depth in the slab.                | Standard Drawing C-07.01  |

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| 8.  |  | On Longitudinal Construction (LC) joints when load transfer dowel assemblies are not used, 5/8 inch diameters by 24 inch epoxy coated smooth dowel (tie-bars) are placed at mid depth in the slab.                     | Standard Drawing C-07.01                                     |
| 9.  |  | On Longitudinal Construction (LC) joints, load transfer dowel assemblies are placed on 30 inch centers.  | Standard Drawing C-07.01                                     |
| 10. |  | When paving next to existing pavement, tie bars are placed in all Longitudinal Construction (LC) joints by drilling 7/8 inch holes into the hardened concrete and anchoring with an adhesive approved by the Engineer. | Standard Drawing C-07.01                                     |
| 11. |  | Tie bars are placed in all Longitudinal Construction (LC) joints by acceptable mechanical methods while the concrete is still plastic or drilled and doweled after concrete has hardened.                              | Standard Specifications 401-3.05 (B)                         |
| 12. |  | Tie bars for joints placed in adjacent slabs of different thickness are placed within 1 inch of the mid depth of the thinner slab.   | Standard Specifications 401-3.05 (B)                         |
| 13. |  | Tie bars are placed in all Longitudinal Weakened Plane (LWP) joints by acceptable mechanical methods while the concrete is still plastic.  | Standard Specifications 401-3.05 (B)                         |
| 14. |  | On Longitudinal Weakened Plane (LWP) joints when load transfer dowel assemblies are used, #5 rebar by 20 inch long tie bars are placed at mid depth in the slab (+/- 1/2 inch).  | Standard Drawing C-07.01<br>Standard Drawing C-07.02         |
| 15. |  | On Longitudinal Weakened Plane (LWP) joints, #5 rebar (tie bars) are placed on 30 inch centers.  | Standard Drawing C-07.01<br>Standard Specifications 401-3.05 |
| 16. |  | Transverse Construction (TC) joints are placed at the end of each day's production, or when placement of concrete is discontinued for more than 90 minutes.  | Standard Specifications 401-3.05 (C)                         |
| 17. |  | All Transverse Construction (TC) joints are formed perpendicular to the centerline of the roadway.   | Standard Drawing C-07.01                                     |
| 18. |  | All Transverse Construction (TC) joints are properly located between Transverse Weakened Plane (TWP) joints (2 foot minimum separation).   | Standard Drawing C-07.03                                     |
| 19. |  | Transverse Weakened Plane (TWP) are aligned with TWP joints in any previously placed concrete.   | Standard Specifications 401-3.05 (A)                         |
| 20. |  | Expansion joints (E) and (H), are constructed at locations as specified on the details.  | Standard Drawing C-07.01                                     |
| 21. |  | Expansion joints (E), (H) and (K) are constructed with 1/2 inch preformed expansion joint material recessed one inch below the PCCP surface.   | Standard Drawing C-07.01                                     |
| 22. |  | Type (K) joints are placed around the complete perimeter of miscellaneous structures catch basins, sign structure foundations, piers, abutments and other concrete facilities.   | Standard Drawing C-07.01                                     |
| 23. |  | Type (H) and (K) joints are constructed without tie bars.  | Standard Drawing C-07.01                                     |
| 24. |  | All (E) joints have 1-1/2 inch diameter epoxy coated smooth dowels (tie bars) on 1 foot-6 inch centers, placed at mid depth in the slab.   | Standard Drawing C-07.01                                     |
| 25. |  | Median Barrier Joints (B) with PCCP on both sides are constructed with tie bars.   | Standard Drawing C-07.01                                     |

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| 26. |  | Median Barrier Joints (B) with PCCP on both sides are constructed with 1/2" preformed expansion joint material and recessed 1/4" below PCCP surface and topped with silicone sealant when the PCCP is sloping toward the barrier. | Standard Drawing C-07.01          |
| 27. |  | Expansion joints (B) Median Barrier with PCCP on both sides are constructed with full depth 1/2 inch preformed expansion joint material, when the PCCP is sloping away from the barrier.  | Standard Drawing C-07.01          |
| 28. |  | All Transverse Construction (TC) have 1-1/2 inch diameter epoxy coated smooth dowels (tie bars), 24 inches in length, on 1 foot centers, placed at mid depth of PCCP slab.  | Standard Drawing C-07.01          |
| 29. |  | Longitudinal Half Barrier (B) joints, have #5 rebar, 24 inches long placed on 5-foot centers at mid depth of gutter slab.   | Standard Drawing C-07.01          |
| 30. |  | Median Barrier with AC on the backside (B) joints have #5 rebar, 24 inches long placed on 5-foot centers at mid depth of PCCP slab.   | Standard Drawing C-07.01          |
| 31. |  | Gutter/PCCP (G) joints have a #5 rebar, 24 inches long placed on 5-foot centers at mid depth of gutter slab.  | Standard Drawing C-07.01          |
| 32. |  | Single Curb Joints (A) have #5 rebar, 20 inches long placed on 5-foot centers at mid depth of PCCP slab.  | Standard Drawing C-07.01          |
| 33. |  | Skewed Transverse Weakened Plane (TWP) joints are used when load transfer dowel assemblies are not required.  | Standard Drawing C-07.01          |
| 34. |  | All Transverse Weakened Plane (TWP) joint locations are correctly spaced and referenced at 15 foot, 13 foot, 15 foot and 17 foot intervals.   | Standard Drawing C-07.03          |
| 35. |  | Transverse Weakened Plane (TWP) joints are constructed at least 6 feet from Transverse Construction (TC) joints.<br>**General Notes 8**   | Standard Drawing C-07.03          |
| 36. |  | Load Transfer Dowel Assembly (LTDA) are correctly placed and anchored at each non-skewed Transverse Weakened Plane (TWP) joints on traveled lanes.  | Standard Drawing C-07.02          |
| 37. |  | Any damage to the surface of coated dowel bars is repaired with compatible materials supplied by the epoxy coating manufacturer.  | Standard Specifications 1003-5.02 |
| 38. |  | Immediately prior to concrete placement, the dowel bars of load transfer assemblies have been uniformly coated with a thin film of waterproof grease for the full length of the dowel.  | Stored Specification 401LTDA      |
| 39. |  | Payments were documented in daily diary as work completed daily.  | Construction Manual 105.11        |
| 40. |  | Quantlist Minimum Frequency is being followed, one per seven calendar days.   | Construction Bulletin 07-01       |