

I-90 West Corridor – Composite Concrete Test Strip Evaluation

Test Strip Placement Date: _____

Contract: _____

Station: _____ To Station: _____

Test Strip Pavement Lane(s): _____

Test Strip Direction of Paving: _____

Paving (Sub)Contractor: _____

Placement (Single Lane / Double Lane): _____

Ternary (Black Rock) Mix Design #: _____

PV Mix Design #: _____

Paving Train Equipment Description:

Ternary (Black Rock) Lift Belt Placer: _____

Ternary (Black Rock) Lift Paver: _____ (DBI Yes/No) _____

PV Lift Belt Placer: _____

PV Lift Paver: _____ (DBI Yes/No) _____

Tining Machine: _____

Curing Machine: _____

Test Strip Evaluation Data:

Paving Operation:

1. Slipform Paver Internal Vibrators (7000+/-2000 VPM)(Article 1103.12)
 - a. Ternary (Black Rock) Lift Paver Measured VPM _____
 - b. PV Lift Paver Measured VPM _____
2. Ternary (Black Rock) Edge Slump <math>< \frac{1}{2}"</math> (Ternary Conc. Mix Design SP) (Yes/No) _____
3. PV Lift Edge Slump <math>< \frac{1}{2}"</math> (Article 420.14 (c))(Yes/No) _____
4. Ternary (Black Rock) Lift Placement Struck Off to Nominal Plan Thickness (Composite PCC Pavt. SP)(Yes/No) _____
5. PV Slip Form Paver Starting and Stopping Minimized (Article 420.11)(Yes/No) _____
6. PV Lift Covers Ternary (Black Rock) Lift Between 15 to 45 Minutes From Initial Ternary (Black Rock) Lift Placement (Composite PCC Pavt. SP)(Yes/No) _____

7. Distance Between Ternary (Black Rock) Lift Paver and PV Lift Paver is No More Than 150'
(Yes/No)_____
8. PV Lift Paver Closes Up Surface and Edges of Concrete With Minimal Hand Finishing
(Yes/No)_____
9. Tine Spacing ¾" (Yes/No)_____
10. Tine Depth 0.13" to 0.19" (3.2 mm to 4.8 mm) (Yes/No)_____
11. Tine Width 0.13" (3.2 mm) (Yes/No)_____
12. Vibrators have consolidated the concrete mass thoroughly and uniformly throughout its entire
depth and width. (Yes/No)_____

Material Testing:

13. Ternary (Black Rock) Concrete Plastic Air Content (5.0%-8.0%) (Yes/No)_____
14. PV Concrete Plastic Air Content (5.0%-8.0%) (Yes/No)_____
15. PV Lift Slump ½" to 1½" (Article 1020.04) (Yes/No)_____
16. Ternary (Black Rock) Water/Cementitious Ratio -0.03<Design<+0.00 (Yes/No)_____
17. PV Lift Water/Cementitious Ratio 0.32-0.42 (Yes/No)_____
18. Ternary (Black Rock) Concrete Haul Time:
 - a. Nonagitating Trucks not to exceed 30 minutes (Yes/No/NA)_____
 - b. Agitating Trucks:
 - i. Conc. Temp. 50°F-64°F not to exceed 90 minutes (Article 1020.11)
(Yes/No/NA)_____
 - ii. Conc. Temp. 65°F-90°F without retarder not to exceed 60 minutes (Article 1020.11)
(Yes/No/NA)_____
 - iii. Conc. Temp. 65°F-90°F with retarder not to exceed 90 minutes (Article 1020.11)
(Yes/No/NA)_____
19. PV Concrete Haul Time:
 - a. Nonagitating Trucks not to exceed 30 minutes (Yes/No/NA)_____
 - b. Agitating Trucks:
 - i. Conc. Temp. 50°F-64°F not to exceed 90 minutes (Article 1020.11)
(Yes/No/NA)_____
 - ii. Conc. Temp. 65°F-90°F without retarder not to exceed 60 minutes (Article 1020.11)
(Yes/No/NA)_____
 - iii. Conc. Temp. 65°F-90°F with retarder not to exceed 90 minutes (Article 1020.11)
(Yes/No/NA)_____

Post Pour Data:

- 20. Dowel Bar Alignment Test Strip Joint Score <12 (Yes/No) _____
- 21. Dowel Bar Horizontal and Vertical Translation Less Than or Equal to 1½" (Yes/No) _____
- 22. Dowel Bar Side Shift Less Than or Equal to 3" (Yes/No) _____
- 23. Dowel Bar Horizontal and Vertical Rotational Alignment Less Than or Equal to 1½"
(Yes/No) _____
- 24. Dowel Bar Coverage Above the Bar Greater Than or Equal to 3" (Yes/No) _____
- 25. Dowel Bar Placement Greater Than or Equal to 85% of Acceptable Criteria (Yes/No) _____
- 26. Ternary (Black Rock) Concrete Flexural Strength Minimum 450psi at a Minimum 5 days
(Yes/No) _____
- 27. Ternary (Black Rock) Concrete Compressive Strength Minimum 2,850 psi at a Minimum 5 days
(Yes/No) _____
- 28. PV Concrete Flexural Strength Minimum 450psi at a Minimum 5 days (Yes/No) _____
- 29. PV Concrete Compressive Strength Minimum 2,850 psi at a Minimum 5 days (Yes/No) _____
- 30. PV Cylinders or Cores Contain Ternary (Black Rock) Concrete Aggregate (Yes/No) _____
- 31. Cores are consolidated thoroughly and uniformly throughout its entire depth and width.
(Yes/No) _____

Test Strip Recommendations:

CM Recommendation for Composite Concrete Test Strip (Accept/Reject): _____

CM Company: _____

CM Name: _____ CM Signature: _____ Date: _____

CCM Recommendation for Composite Concrete Test Strip (Accept/Reject): _____

CCM Company: _____

CCM Name: _____ CCM Signature: _____ Date: _____

Tollway Resolution for Composite Concrete Test Strip (Accept/Reject): _____

Tollway Name: _____ Tollway Signature: _____ Date: _____

NOTE: Spec. Requires Response to Contractor Within 5 Days of Test Section Placement.