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GENERAL NOTES:

1. Dowel bars shall be epoxy coated.
2. Tie-bars shall be epoxy coated.
3. Additional preparation of existing subgrade will be determined by the Engineer.
7. The minimum patch length shall be 6 ft.
1. Expansion cap shall be placed with a gap of 1/4 in. minimum between end of dowel bar and cap.

2. Dowel bar diameter shall be as follows:
   - 0.5 in. for existing PCCP thickness greater than 10 in.
   - 1 in. for existing PCCP thickness 10 in. or less

3. Dowel bar length shall be 1 ft 2 in. minimum and 1 ft 6 in. maximum, regardless of dowel diameter.

4. Sawing and sealing joints shall be omitted where the concrete patch is to be overlaid with asphalt or concrete.

NOTE:

**Legend**

- D = Existing PCCP Thickness
- L = Dowel Bar Length

**Joint Details**

**September 2020**

**Standard Drawing No.** E 506-CCPP-02
Retrofit Pressure Relief Joint and Retrofit Contraction Joint shall be placed a minimum of 6 ft from an existing D-1 contraction joint located in the same lane as the patch.

Where the total patch length exceeds 60 ft, a retrofit pressure relief joint shall be used in lieu of the retrofit contraction joint.

Retrofit tie-bars as required for patches greater than 15 ft.

Distance to first dowel shall be as follows:
- 1 ft 0 in. where adjacent pavement is asphalt
- 2 ft 0 in. where adjacent pavement is concrete

LEGEND
D = Existing PCCP Thickness

NOTES:
NOTES:
1. D-1 contraction joints shall be spaced at 15 ft. Where 15 ft spacing results in the last panel being less than 6 ft in length, the last D-1 spacing shall be adjusted to create two equal panel lengths greater than 6 ft.
2. Retrofitted tie-bars shall be placed in every other panel as shown.
3. Retrofitted tie-bars shall be used where adjacent lane or shoulder is PCCP or composite pavement.

INDIANA DEPARTMENT OF TRANSPORTATION

PATCH LENGTH > 15’ AND ≤ 60’

SEPTEMBER 2020

STANDARD DRAWING NO. E 506-CCPP-05

IN THE NAME OF THE STATE OF INDIANA...
1. D-1 contraction joints shall be spaced at 15 ft. Where 15 ft spacing results in the last panel being less than 6 ft in length, the last D-1 spacing shall be adjusted to create two equal panel lengths greater than 6 ft.

2. Retrofitted tie-bars shall be placed in every other panel as shown.

3. Retrofitted tie-bars shall be used where adjacent lane or shoulder is PCCP or composite pavement.