

**DECATUR COUNTY
CONSTRUCTION & DEVELOPMENT
STANDARDS MANUAL**

**SECTION 02502
STREETS, DRIVES & SIDEWALK REPLACEMENT**

Table of Contents

<u>Section</u>	<u>Subject</u>	<u>Page</u>
1.00	General	2
1.01	Description	2
1.02	Related Sections	2
2.00	Materials	2
2.01	Aggregates	2
2.02	Bituminous Materials	2
2.03	Hot Mix Asphalt	3
2.04	Portland Cement Concrete Pavement	3
3.00	Execution	3
3.01	Preparation For Paving and Surfacing	3
3.02	Subsurface Preparation	3
3.03	Pavement Replacement	3
3.04	Sidewalks	4
3.05	Curb and Gutter	4

LIST OF DRAWINGS

<u>Title</u>	<u>Drawing No.</u>
HMA Pavement Open Trench Cut Repair	RI-1
Portland Cement Concrete Pavement Open Trench Cur Repair	RI-2
Winter Pavement Open Trench Cut Temp Repair	RI-3

1.00 General

1.01 Description

- A. This section covers all work involved in the repair and replacement of existing streets, roads, highways, drives, parking areas, curbs, gutters, sidewalks, and other paved areas damaged or destroyed during construction of the work for which Decatur County issued a permit.

1.02 Related Work Specified Elsewhere

- A. Earthwork for Utilities Section 02222
- B. Paving and Surfacing Section 02500
- C. Landscaping for Utilities Section 02902
- D. Indiana Department of Transportation Standard Specification, latest edition with Supplements, is hereby made a part of this section.

2.00 Materials

2.01 Aggregate

- A. Fine aggregates shall consist of natural sand of manufacture sand produced by crushing stone or gravel
 - 1. Fine aggregates used in Portland cement concrete and bituminous pavement shall be free of injurious amounts or organic materials.
- B. Coarse aggregates shall consist of clean, tough, durable fragments of crushed rock, crushed or uncrushed gravel.
- C. Fine and coarse aggregates shall comply with Indiana Department of Transportation Standard Specification.

2.02 Bituminous Materials

- A. Bituminous Binder and Surface Courses shall conform to Indiana Department of Transportation Standard Specification. Base and Binder may contain up to a maximum of 25% of reclaimed asphalt pavement (RAP) in accordance with Indiana Department of Transportation Specifications.
- B. Tack Coat shall conform to Indiana Department of Transportation Specifications.
- C. Asphalt Cement shall conform to Indiana Department of Transportation Standard Specification.

- D. Coarse Aggregates shall conform to Indiana Department of Transportation Standard Specifications.
- E. Aggregate for Surface Course Mix shall conform to Indiana Department of Transportation Standard Specifications.
- F. Hauling Equipment shall conform to Indiana Department of Transportation Standard Specifications.
- G. Pavers and Rollers shall conform to Indiana Department of Transportation Standard Specification not less than 10 tons.

2.03 Hot Mix Asphalt

- A. All Hot Mix Asphalt (HMA) materials shall conform to Indiana Department of Transportation Specification.
- B. All course and fine aggregate materials shall conform to Indiana Department of Transportation Specifications.

2.04 Portland Cement Concrete Pavement

- A. All Portland Cement Concrete Pavement (PCCP) materials shall conform to Indiana Department of Transportation Specification.

3.00 Execution

3.01 Preparation for Paving and Surfacing

- A. Clean areas to be paved or surfaced. Remove temporary pavement materials, which are not a part of the permanent pavement. Remove cold-mix asphalt. Remove deleterious or unsuitable materials.

3.02 Subsurface Preparation

- A. Provide 8 inches subbase in locations where pavement is to be placed on a material other than Special Backfill. Subbase shall meet the requirements of Indiana Department of Transportation Standard Specifications.

3.03 Pavement Replacement

- A. Replace in kind all pavements encountered with respect to base courses, surface courses, and thickness. Finish elevations, lines, and grades of replacement pavement shall be the same as elevations, lines, and grades of pavement removed, unless otherwise shown on the drawings.

- B. Bituminous Pavements: The minimum section for all pavement shall be equal to those called for in Section 02500 - Paving and Surfacing.
- C. Concrete Pavements: The minimum section for all Portland Cement Concrete Pavements reinforced shall be equal to those called for in Section 02500 - Paving and Surfacing.

3.04 Sidewalk

- A. Walks shall consist of a coarse aggregate subbase and a reinforced concrete surface. Use No. 53 coarse aggregate for subbase, unless otherwise shown. Concrete shall be 4000 psi concrete.
- B. Subbase shall be 2 inches thick, and concrete shall be minimum 4 inches thick.
- C. Walks shall have a fine broom surface finish. Edge, all outside edges of walk and all joints with a wide edging tool.
- D. Walks shall be divided into sections not more than 6 feet in length by dummy joints formed by a jointing tool with ¼ inch wide radius.
- E. Form construction joints around all abutting structures and appurtenances such as manhole, utility poles, hatches, and hydrants. Install ½ inch thick premolded expansion joint filler in construction joints. Expansion joint material shall extend for the full depth of the walk.
- F. Expansion joints shall be placed at 40' maximum spacing.
- G. If existing sidewalk is to be removed and replaced with new sidewalk or new sidewalk extended from existing sidewalk, the existing sidewalk shall be removed to the nearest joint of suitable quality or as directed by the Engineer.

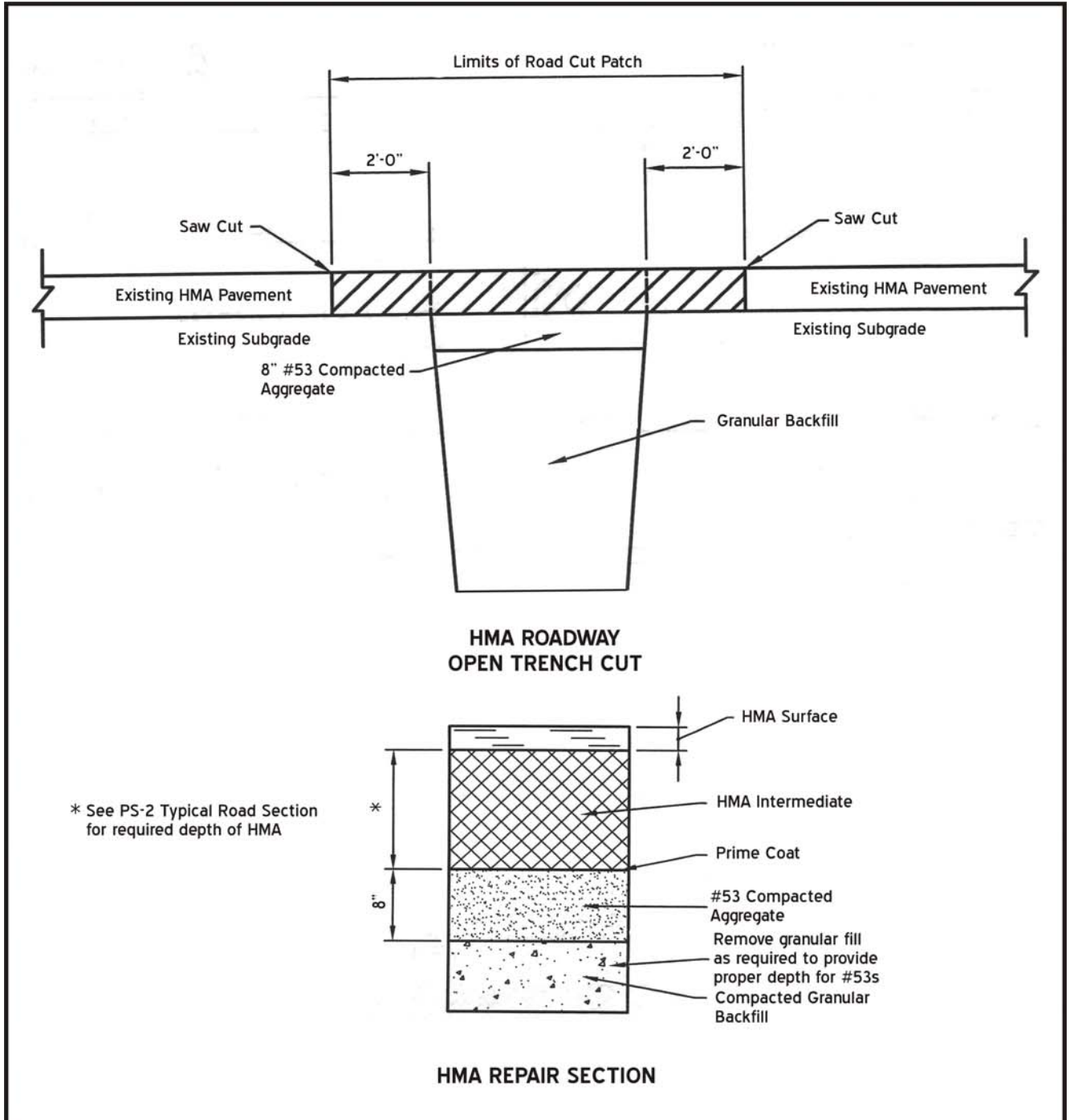
3.05 Curbs and Gutters

- A. The construction of curbs, combination curb and gutter, and integral curb and gutter shall be in accordance with these specifications and as approved and shall be in reasonably close conformance with the lines and grades of existing.
- B. Excavation for curbs shall be made to the required depth and the subgrade or base upon which the curb is constructed shall be compacted to a firm, even surface to not less than 95% of maximum dry density as determined in accordance with AASHTO T-99.
- C. Concrete for curbs shall be 4000 psi, as specified previously for Concrete Pavement.
- D. The curbs shall be constructed by the use of wood or metal forms; or if approved, the curb may be constructed using a curb slip form machine. Forms, if used, shall be straight, free from warped or bent sections, and shall extend for the entire depth of

the curb and shall be securely held in place so that no deviation from alignment and grade will occur during placement of concrete. The concrete shall be consolidated by vibration or other acceptable methods. The top of the curb shall be floated smooth and the top outer corner rounded to 3 inch radius.

- E. The face, top, and gutter of curbs shall not have deviations or irregularities of more than $\frac{1}{8}$ inch when checked with a 10 foot straightedge.
- F. Construction joints shall be placed at 10 foot intervals. The joint shall be uniform, of $\frac{1}{8}$ inch in width, and to a depth of approximately 2 inches. The joint may be saw cut or formed by approved removable strips providing a straight joint at right angles to the length of curb. Joints shall be filled with preformed bituminous joint filler material. Construction joints shall be formed around all abutting structures such as inlets and shall be as specified previously. Construction joints shall be in accordance with INDOT Standard Specifications.
- G. As soon as possible after placing and finishing of concrete, the curbing shall be moistened and kept moist for three days, or cured with the use of a specified membrane compound.
- H. If existing curb is to be removed and replaced with new curb or new curb extended from existing curb, the existing curb shall be removed to the nearest suitable joint.

END SECTION 02502

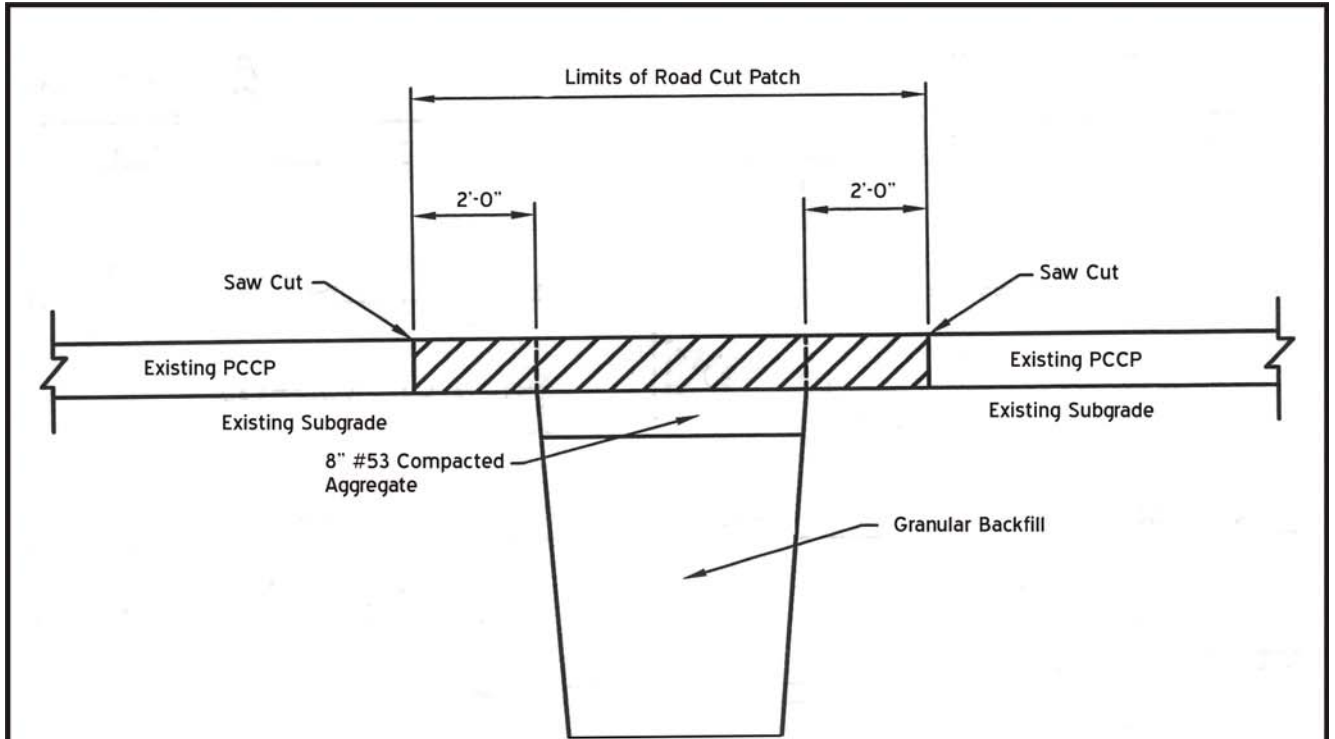


Decatur County DWG #RI-1



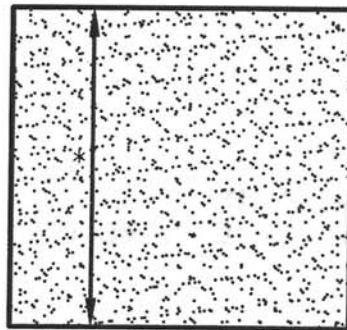
ROADWAY IMPROVEMENTS
HMA PAVEMENT
OPEN TRENCH
CUT REPAIR





**PORTLAND CEMENT CONCRETE
ROADWAY OPEN TRENCH CUT**

* See PS-2 Typical Road Section
for required depth of PCCP



**PORTLAND CEMENT CONCRETE
REPAIR SECTION**

8" #53 Compacted
Aggregate Base

Decatur County

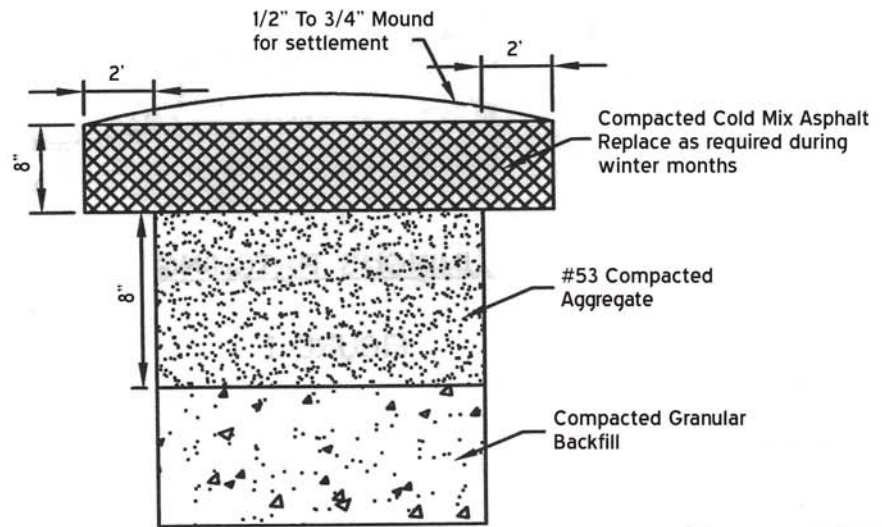
DWG #RI-2



BARTH & ASSOCIATES

**ROADWAY IMPROVEMENTS
PORTLAND CEMENT CONCRETE
PAVEMENT OPEN TRENCH
CUT REPAIR**





Temporary patch to be used during months asphalt plants are closed, normally Nov 10 to April 10

**WINTER TEMPORARY
ROADWAY OPEN TRENCH
REPAIR**

Decatur County

DWG #RI-3



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**ROADWAY IMPROVEMENTS
WINTER PAVEMENT
OPEN TRENCH
CUT TEMP REPAIR**

