

ILLINOIS HIGHWAY INFORMATION SYSTEM

ROADWAY INFORMATION AND PROCEDURE MANUAL

ITEM NAME SURFACE TYPE					ITEM NO. 18
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ENTERED BY	STATE	NON- STATE	HPMS	MUNI	EFFECTIVE DATE
District Program Development	YES	YES	YES	YES	7/1/2014
UPDATE	GIS NAME				DATABASE NAME
Lanes	SURF_TYP				LaneSurfaceType

DESCRIPTION AND PURPOSE OF ITEM

This item indicates the driving surface type along with the underlying pavement structure of the through lanes of a highway.

This information is used for mapping and to organize highway data by type of surface.

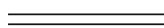
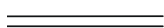


This item can be determined from construction plans or, if plans are unavailable, field review. If in question, contact the district Bureau of Program Development.

Notes:

1. This item can be entered into IRIS as a "Centerline" total or specifically to the "With" and "Against" direction of travel.
2. This item is recorded on IRIS and automatically transferred to IRRIS.

CODE AND SCREEN ENTRY INSTRUCTIONS

A 3-digit numeric code. Enter the appropriate code in its entirety.

<u>Map Symbol</u>	<u>Code</u>	<u>Description</u>
 * 	010	<u>Unimproved</u> – A road using the natural surface and maintained to permit bare passability for motor vehicles, but not conforming to the requirements for a graded and drained earth road. The road may have been bladed and minor improvements may have been made locally.
 * 	020	<u>Graded and Drained</u> – A road of natural earth aligned and graded to permit reasonably convenient use by motor vehicles and with drainage systems (natural and artificial) sufficient to prevent serious impairment of the road by normal surface water, and with or without dust palliative treatment or a continuous course of special borrow material to protect the new roadbed temporarily and to facilitate immediate traffic service.

* Note: Indicates Old Map Symbol

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CODE AND SCREEN ENTRY INSTRUCTIONS

Map Symbol



<u>Code</u>	<u>Description</u>
400	<u>Mixed Bituminous (low type bituminous)</u> – A road, the surface course of which is 1 inch or more in compacted thickness composed of gravel, stone, sand, or similar material, mixed with bituminous material under partial control as to grading proportions. Low type (less than 7 inches combined thickness surface and base).
410	<u>Bituminous Penetration (low type bituminous)</u> – A road, the surface course of which is 1 inch or more in compacted thickness composed of gravel, stone, sand, or similar material bound with bituminous material introduced by downward or upward penetration. <u>Low type</u> (less than 7 inches combined thickness surface and base).
--	<u>High Type Bituminous (flexible base)</u> – Mixed bituminous or bituminous penetration road (Overlay 1 inch or more in compacted thickness) on a <u>FLEXIBLE</u> base with combined surface and base thickness 7 inches or more. Includes any bituminous concrete, sheet asphalt, or rock asphalt.
500	<u>Bituminous Surface Treated</u> – Mixed bituminous, or bituminous penetration.
501	<u>Over PCC - Rubblized - Reinforcement unknown</u>
510	<u>Over PCC - Rubblized - No reinforcement</u>
520	<u>Over PCC - Rubblized - Partial reinforcement</u>
525	<u>Over PCC - Rubblized - With No or Partial Reinforcement - But having Hinged Joints</u>
530	<u>Over PCC - Rubblized - Full reinforcement</u>
540	<u>Over PCC - Rubblized - Continuous reinforcement</u>
550	<u>Bituminous Concrete (other than Class I), Sheet Asphalt or Rock Asphalt</u>
560	<u>Bituminous Concrete Pavement (Full-Depth)</u> – One or more Class I bituminous concrete binder and surface courses constructed on an improved subgrade. Minimum total thickness during the contract of 6 inches of bituminous concrete.

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Map Symbol

Code

Description



--- High Type Bituminous (rigid base) – Any bituminous surface treatment (Overlay 1 inch or more in compacted thickness) on any RIGID base (PCC pavement and brick) with a combined surface and base thickness of 7 inches or more. Includes any bituminous concrete, sheet asphalt, or rock asphalt.

600 Over PCC - Reinforcement unknown

610 Over PCC - No reinforcement

615 Over PCC - No reinforcement but having short panels and dowels

620 Over PCC - Partial reinforcement

625 Over PCC - With No or Partial Reinforcement - But having Hinged Joints

630 Over PCC - Full reinforcement

640 Over PCC - Continuous reinforcement

650 Over Brick, Block, Steel, or similar material



--- Portland Cement Concrete (PCC) – A road consisting of Portland cement concrete with no bituminous overlay.

700 Reinforcement unknown

710 No reinforcement

720 Partial reinforcement

725 With No or Partial reinforcement but having Hinged Joints

730 Full reinforcement

740 Continuous reinforcement

760 Non-Reinforced over PCC - Reinforcement unknown

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<u>Map Symbol</u>	<u>Code</u>	<u>Description</u>
	762	<u>Reinforced over PCC - Reinforcement unknown</u>
* 	765	<u>Non-Reinforced over PCC - No reinforcement</u>
	767	<u>Reinforced over PCC - No reinforcement</u>
	770	<u>Non-Reinforced over PCC - Partial reinforcement</u>
	772	<u>Reinforced over PCC - Partial reinforcement</u>
	775	<u>Non-Reinforced over PCC - With No or Partial reinforcement but having Hinged Joints</u>
	777	<u>Reinforced over PCC - With No or Partial reinforcement but having Hinged Joints</u>
	780	<u>Non-Reinforced over PCC - Full reinforcement</u>
	782	<u>Reinforced over PCC - Full reinforcement</u>
	790	<u>Non-Reinforced over PCC - Continuous reinforcement</u>
	792	<u>Reinforced over PCC - Continuous reinforcement</u>

NOTE: Reinforcement Definitions:

NONE – No reinforcing steel. (Joint tie-rods, dowels & load transfer devices are not considered as reinforcing steel).

PARTIAL – Under 30 pounds of reinforcing steel per 100 square feet. (Including marginal and corner reinforcement).

HINGED JOINTS – A sawed and sealed joint which is held closed by deformed reinforcing bars and intended to preclude mid-panel cracks with a maintainable joint.

FULL – Over 30 pounds of reinforcing steel per 100 square feet.

CONTINUOUS – Continuous longitudinal reinforcement achieved by lapping the reinforcing steel.

* Note: Indicates Old Map Symbols


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<u>Map Symbol</u>	<u>Code</u>	<u>Description</u>
* 	800	<u>Brick, Block or Other</u> – A road consisting of paving brick, stone, asphalt, wood, or other block. Also includes steel or wood with or without a bituminous wearing surface less than 1 inch in compacted thickness.

* Note: Indicates Old Map Symbols