

A Look at INDOT's Overhead Sign Structures

David Boruff, INDOT

INDOT's Overhead Sign Structures

Their Function

- On Freeways-

Primarily provides for Advance Exit and Exit Direction signing

- Non-Freeways-

Supports Route Markers, Lane Control, Destination signs



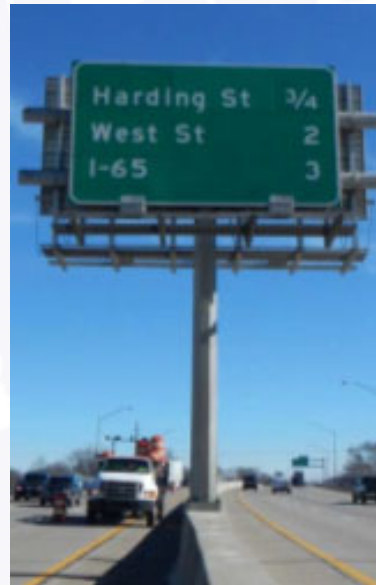
INDOT's Overhead Sign Structures

Freeway Cantilevers

Double Arm



Butterfly



Quad Chord



INDOT's Overhead Sign Structures

Freeway- Box Trusses



Internal Walkway

INDOT's Overhead Sign Structures

Freeway- Bridge Brackets



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Non Freeway- Single Arm Cantilevers



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Non Freeway- Span Structures



Monotube



Tri Chord Truss

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GIS Map

- Available on INDOT's intranet- Collaborative GIS page:
<http://intranet.indot.state.in.us/CollaborativeGIS/>

- Info includes:

- Location
- Structure Number & Type
- Overall Condition
- Inspection Reports

ERIN Employee Resource Internal News *Joe McGuinness, Commissioner*

Reference Post Offset Interpreter

Viewers	Editors	Tools
<ul style="list-style-type: none">Billboard ControlDrainage AssetsLightingMaintenance & Road Transfer AgreementsOfficial ActionsOverhead Sign StructuresPatching ActivityPavement CoresPavement Sections and HistoryPedestrian Assets (ADA)Retaining Walls	<p>Event Editors</p> <ul style="list-style-type: none">• Maintenance and Road Transfer Agreements• FMIS 5 - Project Location(s)• Bridge & Large Culvert Inventory• Count stations & Traffic sections• Official Actions• Pavement History, Sections, Maintenance Rx• Traffic - Durable markings• Traffic - No passing Zone <p>ArcGIS Online Apps</p> <ul style="list-style-type: none">• Pedestrian Assets (ADA)<ul style="list-style-type: none">• User Guide - Collector for ADA• Drainage Assets (Ecology & Waterway)• Drainage Assets (SWAP)	<p>Reference Post Interpreter After the page loads activate the RP Tool widget then click on a Highway to have the tool return to you the Route, Post and Offset of the point at which you clicked on the highway.</p> <p>Road Analyzer Launcher Click on a reference post then select Launch RA for more information.</p>

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GIS Map

The screenshot displays a GIS map of a section of Interstate 70 (I-70) in Indianapolis. A blue dot on the map indicates the location of an overhead sign structure. Two pop-up windows are overlaid on the map, providing detailed information about the structure and its inspection history.

Structure OVS-I70-92.1-W

- Last Edit Operation:** New
- Vendor Status:** Submitted
- INDOT Status:** Accepted
- City:** Indianapolis
- Location:** Double arm butterfly sign structure with dynamic message sign, located in the center median of I-70 just east of exit 91 to Post Road (at mile post 92.1), serving westbound traffic.
- Direction:** West
- Work Done Since Last Inspection:** Unknown
- Structure Type:** DMS = Dynamic Message Sign
- Material:** Galvanized Steel
- Manufacturer:** Unknown
- Contractor:** Unknown
- Fabricator:** Unknown
- Construction History:** [Link]
- [Zoom to](#)

← Inspection: 9/20/2009, 8:00 PM

- Inspection:** 9/20/2009, 8:00 PM
- Inspection Type:** Consultant Regular
- Overall Condition:** 2 - Fair
- Overall Comments:** Structure is 22.0 foot long butterfly structure serving westbound traffic on I-70. At the time of inspection, 30.5 feet of clearance was measured from the left edge of the westbound roadway to the centerline of the structure, and 30.0 feet of clearance was measured from the left edge of the eastbound roadway to the centerline of the structure.
- Click [here](#) to view the report
- Related tables:**
 - Overhead Signs Inventory

INDOT's Overhead Sign Structures

In Total

- More than 4000
~ 60% are Freeway
- Value is \$300,000,000 +

Double Arm Cantilevers	1106
Box Trusses	740
Bridge Brackets	509
Single Arm Cantilevers	794
Monotube Spans	246
Tri Chord Trusses	88
Cable Spans	554



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Inspections

- Started in 2010
 - Driven by: Fatigue Concerns, FHWA Guidance, Purdue Research
 - 6 year contract
 - Second Contract 2016
 - Also 6 years
 - Significant Changes from First Contract
 - Better Funded
 - Inspecting over traffic (certain structures)
- Result- Inspecting more structures, inspection cost & cycle greatly reduced
- Collins performing minor maintenance

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