**3/17/2025**

**Description of Work-PID 101031**

This project is the systematic replacement and upgrade to current ODOT standards of ODOT-maintained signs and supports on IR-74 and IR-275 in Hamilton County as follows:

1. The systematic replacement of all ground mounted sign supports, ground mounted flat sheet and extrusheet signs, and overhead sign supports. Additionally, existing overhead extrusheet signs should be reused and relocated to the new overhead sign supports. This work shall occur on the following routes including the interchange ramps:
	1. IR-275 from the Indiana state line through the eastern junction of IR-275 and IR-74. (0.00 to 13.1 mile markers.)
	2. IR-74 from the Indiana state line through the eastern junction of IR-275 and IR-74 (0.00 to 11.0 mile markers.)
	3. IR-74 EB weigh station ramps and parking lot.
2. The systematic replacement of ground mounted and overhead sign supports for Interstate lead-in and route marker signs. All ground mounted flat sheet and extrusheet signs shall be replaced, but overhead extrusheet signs should be reused and relocated to the new supports. Omit guide signs mounted to signal supports. This work shall occur on the following cross streets:
	1. New Haven Rd.
	2. Dry Fork Rd.
	3. SR 128.
	4. Kilby Rd.

In addition, the following shall apply:

1. ODOT’s Collector Application contains information on the existing signs and supports. This inventory can be used by the consultant for the basis of data collection and plan design. However, the consultant shall verify that the data is accurate for plan development. Any missing locations shall be inventoried through the collector application by the consultant.
2. All new ground mounted beam supports and overhead sign supports shall require new concrete foundations. Reuse of existing foundations shall not be permitted on the project unless approved by ODOT.
3. The consultant shall determine the interchange lead-in signing and mounting type (ground or overhead mounted) that is appropriate for each cross street.
4. Bridge-mounted signs shall be removed and replaced with proposed signs on overhead sign supports.
5. The sign supports and foundations for the LED OPEN/CLOSED weigh station shall be replaced but the LED sign should be reused on the new supports. It’s critical that the downtime for the LED sign shall be kept to a minimum and that the sign always be operational during the weigh station’s normal hours of operation.
6. The overhead Welcome to Ohio sign on IR-74 shall be relocated to a new overhead sign truss.
7. The overhead Welcome to Ohio sign mounted on a truss should be replaced by PID 121240 so no sign or support work should be performed at this location.
8. Enhanced Reference Locations signs including intermediate and ramp signs shall be provided along the mainline and all ramps.
9. Design Standards: The project shall be designed to the 11th edition of the Manual of Uniform Traffic Control Devices (MUTCD) and the Ohio Supplement to the MUTCD, both of which are expected to be adopted in January 2026. Information on the Ohio Supplement manual and Ohio’s Early Adoption List can be found at: <https://www.transportation.ohio.gov/working/engineering/roadway/manuals-standards/ohio-mutcd>

All other current design standards such as the Traffic Engineering (TEM) and Sign Design Manual (SDM) shall also be followed unless there is an expected conflict between current and future manuals. Any conflicts shall be brought to the ODOT’s attention to be resolved.

1. Elevation views are required for all ground mounted signs mounted on structural beams and all new overhead sign supports.
2. SignCadd files (pdf or SignCadd) for the existing extrusheet signs to be reused will be provided by ODOT for the consultant’s review and use.

**Scope of work:**

1. **Flat Sheet Signs**:

Replace all existing flat sheet signs with new signs. Size in accordance with Design Standards.

Existing signs that are 5 years old or newer should not be replaced within this project unless there is evidence of damage as discovered by field inspection.

Clearing and grubbing will be required to insure proper sign visibility. The consultant shall determine limits during inspection.

An estimated quantity of 5,000 sq. ft. shall be used in preparing the fee proposal.

1. **Extrusheet Signs**:

All existing overhead extrusheet signs in the project area have been replaced since 2022 or later, so these signs are expected to be reused and mounted to new supports. Overhead extrusheet signs shall be evaluated and replaced under the following conditions:

* + - * 1. If the existing extrusheet sign design doesn’t comply with the design standards.
				2. Existing signs showing evidence of damage as discovered by field inspection.

All ground mounted extrusheet shall be replaced with new signs. Size in accordance with design standards.

Extrusheet speed limit signs are to be removed and replaced with flat sheet signs on yielding posts.

Extrusheet signs that warrant flat sheet sizing shall be replaced accordingly, and where space restrictions may warrant smaller sign sizes.

Existing signs that are 5 years old or newer should not be replaced within this project unless there is evidence of damage as discovered by field inspection.

Clearing and grubbing will be required to insure proper sign visibility. The consultant shall determine limits during inspection.

In addition, the following requirements shall be followed:

* + 1. The following signs shall remain in place and not be replaced:
			1. Signs by others: Logos and TODS.
			2. Signs maintained by Central Office ITS: Dynamic Message Signs (DMS) and Destination Dynamic Message Signs (DDMS.)
		2. Provide SignCAD and .PDF files for each designable sign.
		3. Any hospital word signs shall be replaced with a D9-2 Hospital sign attached to a supplemental guide sign for the interchange, if possible.
		4. Various locations may need guardrail/barrier removed and disposed, rebuilt, or installed with new end treatments as per current design standards.

An estimated quantity of 5,000 sq. ft. shall be used in preparing the fee proposal.

1. **Ground Mounted Post Supports**:

Replace all existing ground mounted post supports with new support, No. 3 Post.

Avoid the use of No. 4 posts in exposed locations by supporting the sign either No. 3 posts or structural beam supports.

An estimated quantity of 6,000 ft. (or 400 each based on the number of sign locations not posts per sign) shall be used in preparing the fee proposal.

1. **Ground Mounted Structural Beam Supports**:

All structure beam supports are anticipated to be replaced in the project due to age and condition. The consultant shall review inspection records and construction plans as any support less than 20 years old and in satisfactory condition can remain in service unless it doesn’t meet breakaway requirements.

All new structural beam supports shall have breakaway beam connections regardless of barrier protection.

An estimated quantity of 80 locations (assume 2 beams per location) shall be used in preparing the fee proposal.

1. **Overhead Supports**:

All existing overhead sign supports are anticipated to be replaced in the project due to age and condition. The consultant shall review inspection records and construction plans as any support less than 20 years old and in satisfactory condition can remain in service.

An estimated quantity of 20 Truss and 30 Cantilever supports shall be used in preparing the fee proposal.

1. **Intelligent Transportation Systems (ITS):**

No work on any existing ITS equipment should be expected in the project limits.

There may be concurrent work in the project area with the planned ITS sign replacement project, PID 121932. That project may co-locate overhead signs with ITS signs and supports but that’s unknown at this time.

1. **Project Information on Existing Signs:**

Most of the existing signage was installed under the following projects:

PID 21801

PID 25257

PID 101029

PID 119271

PID 121240

2022 ODOT purchase order for extrusheet sign replacements.

1. **Inventory Data Collection:**

Inventory and inspection data on signs and supports shall be collected using the ODOT Collector Application.