# Exchange Requirement

|  |  |
| --- | --- |
| Name | Construction contract |

|  |  |
| --- | --- |
| Identifier | ER.S.104 |

|  |  |  |
| --- | --- | --- |
| Change Log | | |
| 2016-07-30 | draft | ttle@iastate.edu |

|  |  |  |  |
| --- | --- | --- | --- |
| Project Stage | 0 | Programming and planning |  |
| 1 | Design |  |
| 2 | Letting | **✓** |
| 3 | Construction |  |
| 4 | Operation and maintenance |  |
| 5 | Disposal |  |

**General Description**

Sign installation requirements, design plans and specifications are included in the contract to be used by the contractor during construction.

**Exchange disciplines**

* ***Sender:*** Office of contracts
* ***Receiver:*** Contractor

**Information requirements**

The information to be transferred to the contractor includes:

|  |  |  |  |
| --- | --- | --- | --- |
| **Data attribute group** | **Data attribute** | **Description** | **Comments** |
| Project | Project title | Name of a project |  |
| Project ID | Identity of a sign |  |
| Project location | Location of a project | What data attributes represent the location of a project (e.g., district, garage, route id)? |
| Contracted start date | Expected date when the project will start |  |
| Contracted finish date | Expected date when the project will complete |  |
| Contracted price | Prices of the project |  |
| Sign identifier | DOT stock number | Each sign is assigned a stock number |  |
| Iowa MUTCD | Iowa Manual on Uniform Traffic Control Devices |  |
| Federal MUTCD | Federal Manual on Uniform Traffic Control Devices |  |
| Sign location | District | Iowa district number |  |
| County | County number |  |
| Garage | Iowa garage maintenance number |  |
| Route ID | For instance, I-29 |  |
| Milepost | Milepost of sign |  |
| GPS Latitude | GPS coordinate |  |
| GPS Longitude | GPS coordinate |  |
| Sign face direction | Direction of sign face (E, N, NE, etc.) |  |
| Travel direction | Direction of travel along a specific route |  |
| Side of road | Side of road where post is located, relative to direction of travel |  |
| Sign color | Sign color | Color of sign |  |
| Sign size | Sign width | Width of sign |  |
| Sign height | Height of sign |  |
| Sign area | Area of sign |  |
| Sign message | Sign message | Message of sign |  |
| Sign type | Sign type | Type of sign (regulatory, warning, guide, school, rest area, construction) |  |
| Subcategory | Subcategory within sign type |  |
| Replacement notes | Deficiency | Noted deficiency for replacement (whether damage, design change, etc.) |  |
| Sign material | Sheeting | Sign sheeting material (diamond grade, engineering grade, high intensity, prismatic high intensity) |  |
| Blank material | Blank material of the sign (extruded aluminum, metal, wood) |  |
| Post type | Post type | Type of post (e.g., wood, U-Chan,) |  |
| Post type subtype | Subtype values used to drive data collection efforts utilizing the collector application |  |
| Post dimensions | Post size | Size of post (e.g., 4”x6’) |  |
| Post length | Length of post |  |
| Post quantity | Number of posts | Number of posts installed at an assembly location |  |
| Number of signs | Number of sign installed at a location |  |
| Footing | Width | Width of footing |  |
| Height | Height of footing |  |
| Depth | Depth of footing |  |
| Material | Material of footing |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |