# Exchange Requirement

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| --- | --- |
| Name | Final design output |

|  |  |
| --- | --- |
| Identifier | ER.G.101 |

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| --- | --- | --- |
| Change Log | | |
| 2016-08-05 | draft | ttle@iastate.edu |

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

**General Description**

**Exchange disciplines**

* ***Sender:*** Office of Design
* ***Receiver:*** Office of Contracts

**Information to be exchanged**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data attribute group** | **Data attribute** | **Description** | **Comments** |
| Project identification | Project ID |  | Who create this group of information? |
| Project location-District |  |  |
| Schedule-start/finish |  |  |
|  |  |  |
|  |  |  |
| Guardrail-Steel Beam | Location-direction | Direction of traffic (WB, EB, etc.) | Guardrail detailed information in both plans, tabulations and Microstation files |
| Location – side | Side of guardrail (outside, median) |  |
| Location – offset | Offset of guardrail to reference station? |  |
| Location - station |  |  |
| Length |  |  |
| Grading |  |  |
| Long-span system -location |  |  |
| Long-span system - type |  |  |
| Delineators-type |  |  |
| Object marker –type |  |  |
| Bolted end anchor type |  |  |
|  | Post adapter |  |  |
|  | Steel beam type |  |  |
|  | Barrier transition section type |  |  |
|  | End terminal type |  |  |
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|  |  |  |  |
| Cable guardrail | Direction |  |  |
|  | Station |  |  |
|  | Side |  |  |
|  | Offset |  |  |
|  | Dimensions- approach |  |  |
|  | Obstacle |  |  |
|  | Trailing |  |  |
|  | Protection length |  |  |
|  | End anchor No |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Crash cushion | Direction |  |  |
|  | Location –station |  |  |
|  | Side | Left (LT), right (RT) |  |
|  | Obstacle width |  |  |
|  | Temporary | Boolean value, yes or no |  |
|  | Sand barrel – V length |  |  |
|  | Sand barrel – W length |  |  |
|  | San barrel – X length |  |  |
|  | Sand barrel – Y length |  |  |
|  | San barrel – Z length |  |  |
|  | Excavation volume | In cubic yard |  |
|  | Embankment volume | In cubic yard |  |
|  | No. spare parts kit |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Temporary barrier rail | Start station |  |  |
|  | End station |  |  |
|  | Length |  |  |
|  | Material | Steel or concrete |  |
|  | Type |  |  |
|  | Anchored | Yes or no |  |
|  |  |  |  |
|  |  |  |  |
| Safety closure | Station |  |  |
|  | Closure type |  |  |
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|  |  |  |  |
| Concrete guardrail |  |  |  |
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| Specifications |  |  |  |
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