



ITB NO. BC170283JB

**TRI-COUNTY METROPOLITAN TRANSPORTATION
DISTRICT OF OREGON**

**INVITATION TO BID
FOR
RUBY JUNCTION SHOP MODIFICATIONS**

ADDENDUM NO. 5

The following responses to questions; requests for clarifications; and requests for revisions are hereby provided to all proposers.

<p>Question:</p>	<p>When we walked the job it appeared that all of the original electrical raceways were all GRC and a lot of the newer raceways (post original build out) are EMT. Both specification sections 26 05 33 3.02 B. & 26 05 33.01 3.303 B. allow for EMT. I understand that we can't use EMT for through floors or concrete foundations or in wet areas. The physical damage requirements are listed out 26 05 33.01 3.303 A. 2. So, my question is can we utilize EMT? By specs I would say yes, but by comparison to what is already installed, I am unsure what Tri-Met is wanting/expecting/requiring.</p>
<p>TriMet Response:</p>	<p>EMT is acceptable except in locations where physical damage may occur; as well as through floors, concrete foundations, or in wet areas a mentioned in the above comment.</p>
<p>Question:</p>	<p>During the job walk we were not let in to the electrical rooms. We are supposed to remove a 3 pole 225A breaker in SDP4-2B and replace it with a 3 pole 300 amp one & for bay M12 we are supposed to remove a 3 pole 15 amp breaker in P4-10D and replace it with a 3 pole 60 amp one. Does anyone have any pictures or know anything about the existing distribution/panelboards so we can get a new breaker quoted? Specifically AIC ratings (big cost impact), manufacturer and model number. We really need more information.</p>
<p>TriMet Response:</p>	<p>Record drawings show that P4-10D is 10 kAIC minimum rating. Photos of SDP4-2B nameplate reveal that the AIC rating was not stamped. The as-builts do not list the equipment AIC either. The breakers do not have visible labeling. The manufacturer of the Switchboard and breaker is General Electric. Nameplate title is "AV-LINE SWITCHBOARD. Worst case calculations have assumed 65kAIC.</p>

Question:	Per note 1 on E7588-102, can any additional information be provided on how many and what kind of devices need to be relocated down?
TriMet Response:	Three receptacles and one emergency push button.
Question:	Per note 2 on E7588-102, can any additional information be provided on how many lights are being demoed? There are only (6) of these demoed fixtures shown being used in bay M12.
TriMet Response:	Use 40 for your bid.
Question:	Per note 4 on E7588-102, can any additional information be provided on how many and what kind of devices are on the existing beam that need to be relocated to the new beam?
TriMet Response:	Use 3 quads and 6 welding plugs for your bid.
Question:	On Drawings E7588-201 & 202, the crane connections all say "Provide connection to crane bus bars. Coordinate wire and conduit size, & location with Div 14". Do you have any crane information that you can provide? At a minimum we would like to know exactly where the power is to terminate at the crane bus bars that comes from the crane disconnects.
TriMet Response:	It is subject to the crane manufacturer's installation instructions.
Question:	On Drawings E7588-201 & 202, the lift station one line says "Provide connection to lift stations. Coordinate wire & conduit size, feeder quantity & connection location with Div 14". This would be a heck of a bid time guess for the electrical scope of work. Can some budgetary parameters be provided? We need to know what the lift station scope of work is and what they need the electrical contractor to take care and what they will be doing. I really have no idea what conduit and wire size they need for all 3 pits and probable communications back to their "Master Control Panel". Any additional information on this would be extremely helpful.
TriMet Response:	It is subject to the crane manufacturer's installation instructions.
Request for Revision:	Confirm Specification 26 29 13 – Enclosed Controllers is not applicable to this electrical scope of work. They should be provided by division 14.
TriMet Response:	That is correct. There was some confusion as to where that scope fell. This spec should be removed from division 26.

Request for Revision:	Confirm Specification 26 51 00 – Interior Lighting is not applicable to this electrical scope of work. We are just relocating existing lights as shown.
TriMet Response:	That is correct. The only lighting work is to demo/relocate. It was initially thought that new luminaires would be required over the new mezzanine in M12, however the existing highbay lighting in there is sufficient.
Question:	Specifications 26 05 19 - Low-Voltage Electrical Power Conductors & Cables and 26 05 19.01 - General Electrical Wire & Cable are basically a copy of themselves. Which should be used?
TriMet Response:	Use 26 05 19.
Question:	Specifications 26 05 28 - Raceways & Equipment Supports, 26 05 28 - Raceways & Equipment Supports (High Voltage) and 26 05 29 - Hangers & Supports for Electrical Systems are basically the same and have the same requirements. Which should be used?
TriMet Response:	Use 26 05 28.
Question:	Specifications 26 05 33 - Raceways & Boxes for Electrical Systems, 26 05 33.01 - Raceways & Conduits and 26 05 33.01 - Raceways & Conduit (high voltage) are basically the same. 26 05 33 2.12 lists the requirements for Metallic Boxes and 3.08 gives us the installation parameters but the specifications also included sections 26 05 33.02 - Boxes & 26 06 33.02 - Boxes (High Voltage). Which should be used?
TriMet Response:	26 05 33.01 - Raceways and Conduits and 26 05 33.02 should be used.
Question:	SP-04 requires contractor to acquire all project permits. Is the City of Gresham the only issue body for all building and trade permits?
TriMet Response:	Yes.
Question:	Has TriMet submitted the project to the governing agencies for review?
TriMet Response:	Yes, the City of Gresham code review is complete.
Question:	Who is TriMet's contact with these agencies that the bidder can contact to inquire about permit costs?

TriMet Response:	Contact the City of Gresham for permit questions.
Question:	Has TriMet prepared the BOLI vs Davis Bacon comparison of wages as required by ORS? And can it be made available?
TriMet Response:	It is the Contractor's responsibility to compare the applicable BOLI and Davis Bacon rate requirements to determine which is applicable.
Request for Clarification:	Drawing S7588-002 Table 1 indicates special inspection is required for deferred submittals, however no listing of deferred submittals is found. Please confirm there are no deferred submittals that will require special inspection.
TriMet Response:	The bidder should assume there are no deferred submittals.
Question:	Drawing S7588-002 Table 2 states "Contractor to provides quality control for all items indicated to be observed and/or performed in table below". However, Table 1 does not include this comment or statement. Will TriMet be providing special inspection for the fabrications and any deferred submittals listed in Table 1?
TriMet Response:	The Contractor shall provide all special inspections.
Question:	Specification 05120, Paragraph 1.03.2.a indicates the Contractor shall be responsible for final calculations and design drawings. What is the basis on design?
TriMet Response:	The basis of design has been provided on the plans, details and calculations. If the Contractor proposes deviation from plans, the Contractor shall be responsible for engineering and permit updates.
Question:	Specification 05120, Paragraph 1.03.2.a indicates the Contractor shall be responsible for final calculations and design drawings. If the Contractor utilizes the same equipment as the designer assumed for the basis on design and the Contractor's structural engineer finds the original designer assumptions are inadequate, will TriMet be responsible for the added costs?
TriMet Response:	Yes.
Question:	Are there any embedded portions within the building that will require rail boot?

TriMet Response:	No.
Question:	Does the project include a lubrication distribution system to dispense motor oils into autos?
TriMet Response:	No.
Request for Clarification:	Drawing E7588-102 Note 9 states the DC shunt trip source location is Siemens Bay. I am unable find any notes for this location nor is it shown on the on line diagrams. Please locate Siemens Bay on the drawings.
TriMet Response:	Siemens (maintenance) Bay is immediately east of the Truck Shop.
Request for Clarification:	Drawing E7588-102 Note 9 states that the exhaust fan source is panel 9/11 control panel. I am unable find any notes for this location nor is it shown on the on line diagrams. Please locate 9/11 control panel on the drawings.
TriMet Response:	It should have been marked in the field, but could not be located on the electrician's notes. Assume B9 for your bid.
Request for Clarification:	Drawing E7588-102 Note 5 directs the Contractor to relocate a bundle of (20) CAT5 cables 24" away. Will the relocation shorten them? If not then splicing CAT5 cables in not advisable. If they will be too short then please locate their demarcation in an assumed IT room and in the field so the individual lengths of all of the new cables can be identified. A similar statement related to the CAT5 for security is in Note 8. We will need to know where the security panel is located.
TriMet Response:	No splicing of these cables is allowed. The Contractor should assume no splicing of new cables.
Question:	Same scenario about the possibility of the CAT5 cables being too short but this time it pertains to Note 6 on E7588-103. Where is the head end if they need to be repulled?
TriMet Response:	No splicing of these cables is allowed. The Contractor should assume no splicing of new cables.
Request for Clarification:	Drawing S7588-001 Structural Steel Notes states, "All Railing Pipe on Mezzanine Shall Be Powder Coated. REF Section 05520." There is not a Specifications Section 05520. Please confirm this not should be deleted as all other railings at Ruby Junction are painted not powder coated.

TriMet Response:	The reference should be to Specifications Section 09960.
Request for Clarification:	Drawing S7588-001 Concrete Notes references 3,000 PSI and 4,000 PSI concrete; however Specifications Section 03300 only references 4,000 PSI. Please clarify design intent.
TriMet Response:	Use 4,000 PSI.
Request for Clarification:	Drawing S7588-100 references removal and restore of racking. Provide product data and/or information for the existing racking so the Contractor can acquire pricing from the manufacturer.
TriMet Response:	Use Husky Rack & Wire 3000lb min capacity or equivalents for the racks.
Request for Clarification:	2Ruby North structural drawings only indicate CDF under the LRV Lift Footing/SOG , Footings at Grid 1 – D&C and Footing Grid B-8.5. Please confirm whether CDF or Aggregate Base is required under the other footings.
TriMet Response:	CDF is required for under all footings in the Ruby North Building.
Request for Clarification:	On Drawing E7588-104 the circuits for the Crouse-Hinds AR642 receptacles are noted to come from panel P2-6D. This panel is not shown on E7588-103. Please locate on 103.
TriMet Response:	The reference to P2-6D is changed to P2-6C. P2-6C is shown on the drawings at gridline C between 5 & 6.

NO OTHER CHANGES

Tracy Franklin
Contract Administrator

November 15, 2017