

**New Madrid Pumping Station  
W912EQ-04-B-0020  
Questions and Answers  
Last Revised 9 August 04**

No.	Question	Response
1	WITH THE COFFERDAM IN PLACE, WILL THE GOVERNMENT PERMIT THE CONTRACTOR TO BEGIN THE STRUCTURAL EXCAVATION INSIDE THE COFFERDAM IF ONLY THE NORTH ONE-HALF OF THE DIVERSION CHANNEL IS COMPLETED?	<b>Amendment 2</b>
2	ASSUME THE DIVERSION CHANNEL IS COMPLETED TO GRADE WITH A 25-30 FOOT BOTTOM AND THE CORRESPONDING SLOPE EXCAVATED?	<b>Amendment 2</b>
3	1. THE EMBANKMENT LEVEE CLOSURE 240,128 CY IS THIS THE CLOSURE LEVEE FROM 0+00 @FRONTLINE LEVEE TO 17+55 @ SETBACK LEVEE?? IF SO, WHERE IS THE 446,195 CY FILL, EMBANKMENT & COMPACT	<b>Revised Quantities</b>
4	2. COFFERDAM EMBANKMENT-83538 CY I COMPUTED 160,000 CY. POSSIBLY THE ADDITIONAL COFFERDAM MATERIAL REQUIRED AT THE TWO EXISTING CHANNEL SECTIONS WAS NOT INCLUDED??	<b>Revised Quantities</b>
5	As we discussed, we have checked our quantity of fill required for the cofferdam on the subject project and we come up with 157,719 cy. This quantity includes replacing the 5' muck removal in the bottom of the existing ditch. The COE's estimated quantity is shown as 83,538 cy. We believe your quantity may be incorrect and we would like to asked, if possible, if you would check your quantity	<b>Revised Quantities</b>
6	We just checked the MSE Retaining Wall at the Inlet Structure and it appears that the COE's estimated quantity, 4,690 sf, is exactly half the quantity required. Please verify.	<b>The quantities were verified and no changes were made.</b>
7	Will the govt require the diversion channel to be seeded?	<b>Sections 01130 &amp; SWPPP</b>
8	Will the govt require the inlet & outlet channels to be seeded?	<b>Sections 01130 &amp; SWPPP</b>

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9	the govt might want to address the compaction requirements for filling the diversion channel uncompacted except at the closure levee	<b>Amendment 2</b>
10	would like you to send him via e-mail the competations for all earth work for the New Madrid Pumping Station project.	<b>All information is posted on the revised quantities.</b>
11	Section 15170-6, 2.1.1 the motor horsepower is listed as 2000 In the plan drawings, the motors are listed as 2250 Hp	<b>Amendment 2</b>
12	Section 15160-16, 2.21 Rotative speed of the pump shall be no greater than 275 rpm... On drawing M301, the PUMP SCHEDULE lists motor speed as 310 rpm	<b>Amendment 2</b>
13	<p>1. WE RECOMMEND THAT YOU SHOULD ADDRESS THE FACT THAT THE BORROW AREA IS NOT AVAILABLE UNTIL ???</p> <p>2. IT WAS MENTIONED THE C OF E HAS ANOTHER POTENTIAL BORROW AREA. PLEASE MAKE THIS AVAILABLE NOW TO AVOID CLAIMS AND MODS AT A LATER DATE</p> <p>3. PLEASE CONSIDER UTILIZING THE EXISTING FRONTLINE LEVEE DOWNSTREAM FROM THE CLOSURE LEVEE AS BORROW MATERIAL</p>	<b>Amendment 2</b>

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14	<p>Its is our understanding that the borrow as shown on the plans is not correct and is not presently available . The COEs proposed borrow for the New Madrid Pump Station will be deposited from a future contract for the St. Johns Channel construction. This presents major problems with bidding of the Pump Station. If the proposed borrow was currently in place as shown on the plans, the borrow would be drained out and be a drier source of fill material for use this fall and winter and next spring, thereby allowing the contractor to proceed with cofferdam construction when the required excavations are too wet. Additionally, not knowing when the proposed borrow will be available creates a significant scheduling problem with the hauling and distribution of the required excavations and borrow to meet the fill requirements</p> <p>The borrow material, due to the length of haul and crossing of the roadway, is a major cost component of this project and we believe it should be better defined to help eliminate misunderstandings and possible future claims. The better understanding the prospec</p>	<p><b>Amendment 2</b></p>
15	<p>COULD THE RIGHT OF WAY EAST OF THE EAST LEG OF THE COFFERDAM BE EXTENDED AS A POTENTIAL LOCATION TO STOCKPILE SUITABLE MATERIAL FROM THE EXCAVATIONS TO BE UTILIZED AS STRUCTURAL BACKFILL. THIS WOULD BE A GOOD LOCATION FOR THE CONTRACTOR BECAUSE WE WOULDNOT HAVE TO CROSS THE DIVERSION CHANNEL AS THE STRUCTURAL BACKFILL(S) PROGRESS</p>	<p><b>Amendment 2</b></p>
16	<p>Since this project is an "Unrestricted Procurement", if a Small Business entity with less than \$ 28.5 million of sales receipts is the apparent low bidder, how, if any, will the "HUBZONE Evaluation Preference" affect his bid?</p>	<p><b>It won't effect a Small Business. The Hubzone contractor will get a 10% evaluation advantage over large businesses.</b></p>

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17	The estimated lump sum quantities, as stated on the web, show 446,195 CY of "Fill, Embankment and Compact". Where is this material located on the drawings? Also, the item "Embankment, Cofferdam" shows 83,538 CY of material. Could this quantity be verified?	<b>Revised Quantities</b>
18	Sheet G107 allows the designated stockpile area to be 20' in height with 3:1 side slopes and the specifications state on page 02221-3, paragraph 3.1.4 that the stockpile area shall have a maximum height of 10' with 2:1 side slopes. Which is correct?	<b>Amendment 2</b>
19	The specifications in section 02330, paragraph 3.2.1.2, Moisture Control of Semicompacted Fill, states that it is intended that the borrow material shall be placed in the embankment at its natural moisture content, while paragraph 3.2.1.3, Compaction of Semicompacted Fill, states that <b><u>when the moisture content and conditions of the spread layers are satisfactory</u></b> , each layer shall be compacted. What moisture range is intended by the phrase <b><u>when the moisture content and conditions of the spread layers are satisfactory</u></b> , when the previous paragraph states that the embankment shall be placed at its natural moisture content?	<b>Amendment 2</b>
20	1) Will we be allowed to install a temporary crossing in the Mud Ditch and also in the new Diversion Channel, and if so, what minimum design criteria, if any, will be required?	<b>Amendment 2</b>

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21	It is understood that a new pumping station is to be installed, starting in 2005, adjacent to the existing gravity flow structure located in the St. John's Ditch. How will the upcoming project affect the transportation of borrow material to the levee closure structure? For example, will access be maintained to cross the highway with off-road haul trucks at a location where the closure levee meets Highway WW?	<b>Section 0800 SP22</b>
22	The estimated quantities, as furnished on the web, show 57,631 CY of Random Fill in the Earthwork section. Where is this shown on the plans?	<b>Amendment 2 and Revised Quantities</b>
23	The estimated quantities, as furnished on the web, show 3,925 CY of Rip-Rap. Could this quantity be verified?	<b>Revised Quantities</b>
24	Adden: #2 page 8 of 8. Drawing m301 Pump Schedule table - change "2250 HP" to "2000 HP" for main pumps and change "310 RPM" to "271 RPM" for main pumps. We are quoting the 275 rpm pump speed as specified. We are quoting a 2350 HP motor with a 1.0 SF in order to meet the spec. Requirements for 110% of the max. pump BHP.(Sect. 15170, Para. 2.1.1). The max. pump bhp occurs at pump where the pump TDH curve crosses the max. head system curve for our pump this is approx. 190,000 gpm (424 cfs) @ 34' TDH with a pump bhp of approx. 2105. Below is the pump bhp rating and at max. head. Pump bhp @ rating = 1815 Pump bhp @ max. head = 2105 Note we are offering a 2350 HP driver with a 1.0 service factor. Please confirm that this is acceptable	<b>Horsepower listed on drawings is nominal horsepower. Exact horsepower needed by each specific manufacturer depends on numerous factors. Motor shall be sized to drive pump at all conditions specified in Section 15160 and have a minimum efficiency at design of 80%. The motor proposed, for your specific pump application, seems sufficient, even though you do not exactly meet the service factor requirements at the max head condition. The maximum head condition is a rare event.</b>

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25	Will trucks be allowed to cross the Highway and the completed structure to haul the borrow materials to the project.	<b>Yes as long as it meets all the requirements in the specifications and drawings, site conditions allow it, it's within weight limits, complies with all environmental, local, state, federal restrictions, and must be approved by the contracting officer.</b>
26	We have been reviewing the drawings for the new pumping station in New Madrid, MO. Drawing S712 details a concrete walkway that appears to be designed as precast. However, the specifications do not reference a 3400 spec nor does the drawing specify precast. Please clarify the design intent of walkway slabs.	<b>Precast</b>