

Delaware Department of Transportation  
**QUESTIONS AND ANSWERS**  
**T201680104.01**

Yellow highlighting = previous questions answered in this posting: Q16

**ST. GEORGES MAINTENANCE YARD IMPROVEMENTS, NEW CASTLE COUNTY**

**Thursday, August 03, 2017**

Q #	Question	Answer
41	Is there a boring log available that shows existing topsoil depths and the thickness of the existing parking lots hot mix and stone?	<i>Response forthcoming...</i>
40	Sheet MB-E-101, door E6 indicates a XWP fixture – is there a catalog number for this fixture?	<i>Response forthcoming...</i>
39	Sheet S-E-205, detail 4 and 5; with using the braided strap to bond the lid this will limit the swing of the lid when opening – are Quazite style boxes acceptable?	<i>Response forthcoming...</i>
38	Sheet S-E-204, detail 4; shows 24” min cover on two (2) 5” conduit. This is primary HV cables – is the 24” min cover correct?	<i>Response forthcoming...</i>
37	Sheet S-E-201, keynote 10; need to identify where the feed will come from for this panel as well as the size of the panel and what size MCB.	<i>Response forthcoming...</i>
36	Please specify. What type gate is used for the 30’ opening in the fence Steel slide, Alum. Slide or Double Drive Swing gate.	<i>Response forthcoming...</i>
35	The wage rates provided don't have a rate for plumbers. What rate should be used?	<i>Response forthcoming...</i>
34	On sheets MB-A-303 detail 2 and on MB-A-304 detail 1 shows a "translucent panel 3'0"" over the coiling doors but on the elevations they are shown as "aluminum windows with insulating glass". The window details don't show these openings at all. Please clarify what these windows are.	<i>Response forthcoming...</i>
33	Please confirm no slope and no floor drains are required in the Repair Shop Area Floor 108.	<i>Response forthcoming...</i>

Q #	Question	Answer
32	Section MB22124 – 2.12.B Lubrication Tank Schedule does not match the tank sizes on sheet MB A-103 for the same fluids. Also, the tank schedule in section MB 22124 does not address the waste oil and waste hydraulic oil storage tanks. Please advise with specifications for the waste oil and hydraulic oil tanks and confirm all tank sizes and quantities.	<i>Response forthcoming...</i>
31	Is DeIDOT providing the geotechnical observation, special testing and inspections, and field quality control for the project?	<i>Response forthcoming...</i>
30	Maintenance Building exterior elevations indicate Aluminum Storefront framing and glazed transoms above the overhead doors. The openings are not addressed on the typical window and door detail sheet MB A 601 furthermore, Spec section MB-085113 covers operable window only not fixed windows as indicated. Section detail 2/MB-A-303 states translucent panel at transoms. Please clarify the transom material.	<i>Response forthcoming...</i>
29	Please confirm the jack and bore for the electrical service running under Lorewood Rd is to be provided under this contract.	<i>Response forthcoming...</i>
28	Sheet 5 Wash Pad Forebay detail shows 6” p.c.c. concrete noted as pay item 610009. This pay item is not included in the Schedule of pay items in the proposal package. Please advise	<i>Response forthcoming...</i>
27	Please provide the width of the footing for the monument sign	<i>Response forthcoming...</i>
26	Confirm no reinforcement is required in the 12” thick concrete paving section detail B shown on sheet 5	<i>Response forthcoming...</i>
25	Please provide length and width dimensioning for the tank pad, fueling apron, brine pad and electric pad.	<i>Response forthcoming...</i>
24	Pay item 501006 calls for a 12” thick pad and is to be used to pay for the tank pad, electric pad, brine pad and fueling apron. The curb details for the tank pad appear to call out an 8” thick slab. please advise with the correct thickness of the tank pad.	<i>Response forthcoming...</i>

Q #	Question	Answer
23	Please detail the scope of work to be included in item 763504 Sitework	<i>Response forthcoming...</i>
22	The schedule of pay items does not include clearing and grubbing, excavation and embankment, and site electrical conduit and wire. Please advise.	<i>Response forthcoming...</i>

**Tuesday, August 01, 2017**

21	Drawing CO-A-301 and Table of Contents call for sheet vinyl flooring, however spec section 096516 is not included. Please advise.	<i>Response forthcoming...</i>
20	The advertised contract duration of 620 days seems excessive for the scope of work to be completed. If the successful bidder based their proposal on a contract duration less than the advertised duration what are LD's and damage claims based from? The advertised duration or the agreed upon construction schedule?	<i>Response forthcoming...</i>
19	The proposal packet contains only the Delaware State Prevailing Wages for "Highway Construction". Please confirm that these are the only wages to be used for the project AND that "Building Construction" Wages are not to be used for the construction of the Driver's Training Building and Maintenance Shop.	See Question 5 and response.

**Friday, July 28, 2017**

18	There are columns shown on the MB-A-101 at D2 & D4 but there are no footings shown for these on the foundation plan MB-S-101. How are they being supported?	Provide a 5'x5'x1'-6" column footing at gridlines D2 & D4 on sheet S101 per detail 2/S501. See revised sheet MB-S-101 in upcoming Addendum 2.
17	There is no spec for the stone veneer on the sign, what product is to be used here?	<i>Response forthcoming...</i>

Q #	Question	Answer
16	<p>a. I looked on the drawings for a mounting detail for the fueling station panelboard and did not see one.</p> <p>b. What additional branch breakers are required for the fueling station panelboard?</p>	<p>a) Panel board is designed to be surface mounted, provide a strut channel structure for panel installation. Exact panel location shall be coordinated in field with all trades involved.</p> <p>b) Provide six (6), 20A, 120V, 1 pole, branch circuit breakers.</p>
15	<p>I would like to ask for a clarification on the electrical panelboard feeding the fueling station. After reviewing Sheet drawings # 10, and # 11, of the Construction Details, plus drawing # S-E-201, Key Note 10, I was looking for any mounting details, or a defined “Classification” of the requested Panelboard for the Fueling Station. Key Note 10, refers only to a panel manufactured by Hubbell – Killark, in a NEMA 4X enclosure, but also refers to providing sealing fittings for Hazardous Locations, equal to Hubbell – Killark # ENY-3. What classification do we have to adhere to for the panelboard, and its mounting location? Will it be Class 1, Division 1 or perhaps Class 1, Division 2, etc.?</p>	<p>Per manufacturer catalog information, Killark circuit breaker panelboard is designed for Class I, Div 1&amp;2. The 12 circuit panel board specified in key note 10 on dwg S-E-201 fits in the Hubbell Killark Distribution Circuit Breaker Panel Board B7L/B7P Series - B7 P 20 3 12 MBB 30- there are not catalog numbers for Class 1, Division 1 and Class 1, Division 2 separately. Same situation occurs for the Fitting Hubbell – Killark # ENY-3 which is suitable for installation in Class I, Div 1&amp;2. Exact location of the panel shall be coordinate in field, with all trades involved.. Motor Fuel Dispensing facilities are Class I as defined in NEC Table 514.3(B)(1), The Division 1 or 2 depends of the location of the electrical equipment as defined in NEC Table 514.3(B)(2).</p>

**Thursday, July 27, 2017**

14	<p>Drawing # CO-E-104, detail # 5, identifies Panel LC as Hubbell # LXIN-32-16-08 with enclosure # LEXAN-32-S, which also refers us to Drawing # CO-E-501 for the Panel LC schedule.</p> <p>(a) The electrical single-line diagram, on Drawing # S-E-301, shows Lighting Control Panel “LC” fed by a 40A/3P branch breaker, from panel CO (9,11,13). The Hubbell style LXIN panel is not like the style LXBC panel whereas you provide a feeder to a vertical bus fed panel and tap branch circuits from it in the same way a typical power panelboard would work. The LXIN series uses relay modules that receive the feeder circuit from a remote panelboard and return the load circuit from the same relay, acting as a switching relay only. Would you rather use the same style panel, LXBC?</p>	<p>Panel LXBC is accepted. Provide lighting panel similar to Hubbell LXBC -1-IL-B-30-H-1S.or approved equal. For spare breakers provide 50% controlled breakers and 50% non-controlled breakers.</p>
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Q #	Question	Answer
13	<p>Drawing # MB-E-501 (Sheet No. 116) provides the panel “LP” schedule, which has been identified, on Drawing # MB-E-101 (Sheet No. 111) as a Hubbell # LXBC-1-1L-B-18-H-1S with # LXTB graphical interface user or equal.</p> <p>The Hubbell series LXBC panel uses “controlled” as well as “non-controlled” circuit breakers.</p> <p>(a) Which type breaker are we to supply for the six “spares” in Panel LP?</p> <p>(b) Should these be split, whereas we provide three of each type, or another variation?</p> <p>(c) In an attempt to properly identify which breakers in panel LP were to be “controlled” or “non-controlled” would you please clarify the following “branch circuit loads”? Service Bay # 3 (Drawing MB-E-101) identifies LP-9 as the feeder circuit. Service Bay # 5 identifies LP-11 as the feeder circuit. Panel schedule LP identifies circuit # 7 feeding Lighting Bay # 3, circuit # 9 feeding Lighting Bay # 5. Would you please indicate which circuit identifier should be changed?</p>	<p>a) Provide 3 controlled breakers and 3 non-controlled breakers.</p> <p>b) Same as a) above.</p> <p>c) Circuits would be labeled as indicated on "LP" Panel board schedule. Circuit # 17 shall be included to serve bay #1. See revised sheet MB-E-101 and MB-E-501.</p>

Q #	Question	Answer
13	<p>(d) The above is not a big deal, but it also extends to Panel LP circuit # 11, identified as feeding the Mezzanine. Drawing # MB-E-102 shows the mezzanine lighting fed from circuit LP-11. Drawing # MB-E-101 identifies circuit LP-11 as feeding Service Bay # 5. After clarifying paragraph (c) above, would it be possible that the mezzanine lighting would be controlled on circuit LP-15? The mezzanine lighting is a “non-controlled” breaker load and shown to be fed by 3-way switches. Circuit LP-11 is a “controlled” breaker load, as identified on Drawing MB-E-101, represented by switch Se.</p> <p>(e) Drawing # MB-E-101, Sheet Key Note # 3, identifies the Lighting Control Switches to be similar to Hubbell LX Sentry Switch, toggle style with locator light, or equal. Hubbell has discontinued the LX Sentry Switch style, and replaced them with the LXSW series (spec sheet attached). This becomes important for a couple of reasons. The replacement style is wired using Belden # 8471 cable, and not standard wiring as did the older “Sentry” design. This should be noted on the drawings. The new switch design also brings up the question (see spec sheet) do we furnish [5] LXSW1LPW, or [1] LXSW5LPW at each of the two locations, designated as SaSbScSdSe, on Drawing # MB-E-101, to control the Service Bay Lighting Circuits?</p>	<p>d) Service Bay #5 will be fed by circuit LP-9 and Mezzanine by circuit LP-11 following LP panelboard schedule. Final circuit identification shall be documented on as-built drawings. See revised sheets MB-E-101 and MB-E-501 in upcoming Addendum 2.</p> <p>e) Since the mentioned key note also refers to switches compatible with the lighting control panel, LXSW should be used. LXSW5 is a good option for this application.</p>

**Monday, July 24, 2017**

12	<p>The Overhead Crane in the Maintenance Building is called out as by General Contractor but there is no Spec section for it. Is more information going to be provided?</p>	<p><i>Response forthcoming...</i></p>
11	<p>Detail 2 on A-502 calls for a W12x45 to support various mounted equipment. Assuming that this beam has been designed by the project engineer already and it will attach to the building columns. Can end beam reactions/loads be provided which the PEMB columns will support?</p>	<p>The W12x45 beam with 8 hose reels should be designed to see a 1kip Live Load and 1Kip Dead Load.</p>

Q #	Question	Answer
10	The drawings show a 5 ton overhead crane running from grids 2-4 and spanning between grids C-E. There are 6 columns shown on the drawings to support the crane runway steel. It would be a more efficient design if this crane were underhung and supported from the steel above.	If awarded, submit a value engineering proposal/ substitution request per the contract documents that outlines the proposed change in design and cost implications for all systems. Request shall meet all the requirements of Specification Section 012500. The deflection & lateral drift requirements per the crane manufacturer must be met. Support for equipment reels, which share the columns in question, must also be factored into the proposed change (see MB-A-103, MB-A-302, MB-A-502, etc.). Equipment must remain at heights indicated on contract documents.
9	Are the CMU walls designed with bond beams so that the walls are braced horizontally between building columns and a structural member on top of the wall is not required for support? The drawings appear to show a bond beam at the top of the 4'-8" high wall and two rows on bond beam for the 1'-8" high wall. The drawings do call for a 9" metal channel but I assume that this channel will be used to support the metal exterior panel and interior liner panel only? This channel is not intended to brace the top of the CMU wall?	Yes - the bond beams will be sufficient to brace horizontally without the structural need for support from above.  Correct - The 9" channel is for the wall system per the PEMB Manuf. and is used to support the exterior and interior panels only.
8	The drawings are calling for the simple saver insulation system for both the roof and walls. This system is labor intensive and encapsulates the roof purlin cavity making it very difficult to accommodate attachments for MEP. Will other systems be allowed as long as they meet the required U-values and energy code requirements Just need to know what energy code is being followed and what are the required tested u-values?	JM Simple Saver system (or equal) is required for the roof. Code required U-Factor for roof is .032. Other insulating systems are permitted for the walls as long as they meet the code required U-Factor of .052. Metal liner panel required for walls per drawings.
7	What are the required tested u-values for both the roof and wall insulation systems to meet the energy code? (RFI question)	Code required U-Factor for Roof is .032. Code required U-Factor for walls is .052
6	On sheets CO-S-001 and MB-S-001 note 6 under the Foundation heading says "If soil of this bearing is not encountered at the elevations indicated on the contract drawings, footings shall be lowered or increased in size as directed by the structural engineer." How will the extra work be compensated if this occurs?	Follow Section 104 of the DelDOT Standard Specifications.

Q #	Question	Answer
5	The prevailing wage rates provided are for highway construction, will these be the rates that are applied to the building construction on this project?	Yes, Highway Construction are the wage rates issued by the Department of Labor for this project

**Thursday, July 20, 2017**

4	Please clarify the new Fencing around the property. There is no plan detail and specs are general not specific.	Furnish and install 8' high, 9 gauge galvanized chain link fence with 1'-0" high three (3) strand barbed wire on outward facing arms in accordance with DELDOT standards specifications. End posts and pull posts are to be 3" OD SS40 and intermediate posts 2-1/2" OD SS40. Brace railings are to be 1-5/8" OD SS#40. All corner, brace, and gate posts are to have truss rod assemblies. The fence should have top and bottom 7 gauge tension wire attached with hog rings. All concrete is to be truck delivered Class B mix concrete crowned to promote runoff of water. All other material should be galvanized steel.
3	On plan sheet 4: Demolition D-2 - will the contractor remove the salt from the existing salt barn? Demolition D-4 - 3 tanks are on site. Are they all to be removed?	The state (DELDOT) will remove the salt from the existing salt barn, NOT the contractor.  D-4 Should state, "Steel Frame Tank to be removed by others. However, contractor shall remove the concrete pad.  D-5 Should state, "Remove existing hydrant."

**Thursday, July 13, 2017**

2	Is DeIDOT going to make the building items specialty items so the prime contractor can meet the self-performance requirement?	This will be addressed at the Pre-Bid Meeting.
1	Page MB-283111-3 of the Fire Alarm Specification, section 2.2 reads "Manufacturers: Subject to compliance with requirements, provide products by Edwards Signaling and Security Systems, a GE Company or equal as pre-approved by the Owner."  Our company is requesting to be "pre-approved by the Owner" to provide an equal "Honeywell Notifier Fire Alarm System".	The Honeywell Notifier Fire Alarm System is acceptable to the owner. For future requests like these, please follow Project Bidders Note #15, which states "There are various manufactures listed throughout the Technical Specifications in Appendix A. In addition to all listed manufactures, you may submit an 'Approved Equal' to the Department for review and approval/disapproval. Your request must list's the page number, paragraph and section of Appendix-A that you want reviewed. Send your 'Approved Equal' request to: dotask@state.de.us."