# In The Matter Of:

Delaware Department of Transportation Contract T201207101.01, Federal Aid Project No. EBRN-N1

> Bid Proposal January 11, 2016

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THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION IN THE MATTER OF: : : Bid Proposal for Contract T201207101.01, : Federal Aid Project No. EBRN-N159(2) : BR 1-159 on James Street Over : Christina River, New Castle County : . . . . . . . . . . Delaware Department of Transportation Bidder's Room, Transportation Administration Center 800 Bay Road Dover, Delaware Monday, January 11, 2016 2:00 p.m. . . . . . . . . . . . BEFORE: Robert A. Kovacs, Competitively Bid Contracts Coordinator .. .. .. .. .. -- Transcript of Proceedings --WILCOX & FETZER 1330 King Street Wilmington, DE 19801 (302) 655-0477 www.wilfet.com WILCOX & FETZER LTD

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1 MR. KOVACS: All right. Good 2 afternoon, everyone. My name is Bob Kovacs. I'm a Contracts Coordinator here with DelDOT. 3 4 This is a mandatory pre-bid meeting, so in order for you to submit a bid, I must have all 5 your information on that sheet. Please fill it out. 6 7 Don't leave anything blank. Just fill it out as 8 neat as you can. I would appreciate it. 9 The reason for the meeting today, 10 obviously, is to pass along some information to you 11 that our PM wanted to. 12 Before I turn it over to the PM, I 13 just need to go over a few things real guick. The 14 first I just want to reiterate some bidders' notes, 15 two actually. One talks about the award of 16 17 contractor shall be required to obtain liability 18 insurance for the amount of \$5 million, as well as the contractor must have BASF corporation as 19 additional insured to the certificate of liability 20 21 for this project. I'm sure you have all read it. I just wanted to reiterate that. 22 23 The DBE goal on this project is 24 5 percent. So the total bid must use DelDOT

1 DBE-certified vendors of 5 percent. You can find 2 the DBE information on our deldot.gov website, 3 as well as everything is explained in the proposal, 4 as well. So that's all I really have. Like I said, I need everyone to sign 5 б Also, if you have any questions that you think in. 7 of after the meeting, please send them to our dot-ask mailbox, and we will answer those as soon as 8 9 Then we will post them for everyone to see. we can. 10 And I think that's all I have. So I 11 would like to turn it over to the PM right now. 12 MR. HASTINGS: My name is Jason I'm a design engineer here at DelDOT. 13 Hastings. 14 And we have, obviously, this project to replace the 15 James Street River -- or the James Street Bridge 16 over Christina River. Michael Gettings is actually 17 the project manager in the Bridge Design Section. 18 We used McCormick Taylor as our consultant to do the design and do the construction coordination on the 19 design side. 20 21 And Mike Angelo has prepared a presentation to go -- to highlight some of the 22 23 issues, the key concerns that we have with this 24 location. There are several challenges here, which,

1 you know, necessitated the need for the pre-bid 2 meeting. So I will turn it over to Mike to give his 3 presentation. MR. ANGELO: Thanks, Jason. 4 Okay. Let's start off to kind of give you a little bit of 5 б background on the bridge and the need for the 7 project. The original bridge was constructed 8 It's a single-leaf bascule span with two 9 in 1929. 10 approach spans. It's a girder floor beam steel 11 stringer super structure. 12 The bridge underwent major rehabilitation in 1986. That included the bascule 13 14 span floor beam and stringers were replaced. The 15 open steel grid deck also was replaced. There was a stabilization done to the 16 17 rest pier, that pier on the left. You will notice 18 the concrete around there. That is where the stabilization was to stabilize with monitude piles 19 and tack. 20 21 Also, a timber fender system was replaced. And the bridge now doesn't have an 22 23 electrical system. That was stripped out. Also the 24 house, the control house, was (inaudible)



1 Is that better? Now you can see it. 2 Thank you. 3 THE INTERPRETER: Can we pull the 4 shade down in that window, please? Sorry. 5 MR. ANGELO: Subsequent to that, б emergency repair contract was undertaken in 2009 to 7 replace stringers over the counterweight, which have 8 failed or corroded. They were replaced, and a new open steel deck -- wood deck was placed on that area 9 10 and replaced the concrete with steel grid deck 11 previously. 12 And even more recently we have gone 13 back and replaced some of the damage to the open 14 grid deck. 15 Also, there are cantilever beams off 16 of the floor beam and approach span that have 17 failed. They have been fixed. We have also added some angles to support them. 18 They are attached to the cantilever, supporting the cantilever beams 19 through the counterweight. 20 21 One of the big needs for this project James Street is the only access to Water 22 is access. 23 Street. Water Street has the Newport Industrial 24 Park. There is a bridge on James Street, an Amtrak

1 bridge with a 13'2" clearance. Some of the tenants 2 in the industrial park have vehicles that can't get 3 under that bridge. So it's important -- James 4 Street Bridge is an important (inaudible), also 5 access to the DASF plant on the left side of the б picture. 7 So access being a concern, there are some traffic restrictions that we have to deal with: 8 9 Water Street and the entrance to the DASF plant open 10 at all times. We will allow some temporary detours 11 at James Street. Usually, you can do weekends between the hours of Saturday at 5:00 p.m. until 12 Sunday 11:59 p.m. 13 14 The reason for that is the Waste 15 Management site there has oversized trucks, and they 16 go out at certain times of the week. That's kind of 17 the window we have to do the closure. 18 In phase two you will be allowed to close for an entire weekend from 7:00 p.m. Friday to 19 5:00 a.m. Monday. Phase two is the tie-in work, 20 21 basically open up traffic to the new bridge.

There is an incentiveness incentive that will be applied. A road user cost \$2,300 per day will be applied if the bridge is not open, the



1 hours noted above in the traffic restrictions. Some of the major contacts that we 2 3 need to be concerned with when we are doing the 4 detours at the Newport Industrial Park. Bill Lauer, who is with Harvey Hann, kind of coordinated 5 everything with the tenants in the industrial park. 6 7 And, obviously, Waste Management, Kurt Pilarsky is 8 the district manager there. Also BASF and the town 9 of Newport will have some names. 10 For cultural resources, of note there 11 is one site, the Krebs Building, which is in the 12 BASF facility. You can see it there. It needs to be videotaped prior to construction. 13 There is a contact with DelDOT, Laura 14 15 Keely, who is given up there in that note, if there 16 are any concerns. 17 There is an item in the contract for 18 the videotaping. And if any damage should happen due to pile driving, sheeting, the removal of the 19 bridge, you will need to contact Laura Healy from 20 21 DelDOT before any repairs are made. Permits for this project: 22 There is a 23 U.S. Army Corps of Engineers Nationwide Number 23 24 that's still pending. The DNREC subaqueous lands

1 which is pending. We have the water quality and 2 coastal zone management permits from DNREC which 3 have been issued. And New Castle County floodplain 4 was just recently issued. So that's an update from 5 what's in the utility statement. Some of the restrictions to be 6 7 concerned with, fisheries restrictions: There is no in-water work from March 15 to June 30, inclusive. 8 Migratory birds from April 15 to August 1. 9 Τf 10 netting is put under the existing bridge, that's not 11 a concern, if it's put up for those dates. 12 Also several items of note in terms of protection of resources: Minimum clearings in 13 14 the wetlands, no grubbing in the wetlands. Any 15 equipment traversing the wetlands and subaqueous 16 land must be supported on temporary composite mats. There is an item in the contract for that. 17 U.S. Coast Guard coordination: 18 There 19 is an item for coordinating with the Coast Guard. There is specific coordination. 20 There is a contact, 21 Hal Pitts, with the Coast Guard if you have any questions. I think, basically, the idea is you have 22 23 to leave a 45-foot clear channel at all times, or 24 there is a -- or you would have to contact the Coast

1 Guard at least a month in advance. There are several other items in 2 3 One is no in-water activity the first Sunday there. 4 in October. That is for the Newport Rowing Club. 5 They have an event at that time. And during the Christina River 6 7 Cleanup, you'll have to check with christinarivercleanup.org to see. 8 It varies from 9 year to year. 10 Other restrictions: There is a 11 superfund site on the south bank of the Christina. 12 It's highlighted there in that kind of orangy brown 13 color. It is capped with a geo-membrane. Prior to start of construction, that 14 15 cap will need to be flagged. You cannot -- the 16 geo-membrane is 18 inches below ground, so we're 17 going to have to restrict the amount of stripping it 18 and topsoil removal and road removal that happens 19 there to existing rocks and 6 inches of topsoil. Also no stockpiling of materials and 20 21 no staging of equipment will be allowed in that 22 area. 23 So the superfund site contact 24 information will be Mel Peters from DelDOT -- that



1 has changed from what is in the plans -- and Andrew Hartten, the principal project manager from 2 3 Chemours, who actually owns the site. That has also 4 changed from what was in the plans. Utility relocation: What we would 5 б plan to do there is once all the phase one 7 maintenance of traffic is set up, there will be suspension of time charges while the utility work 8 takes place. That will be DP&L Gas will be putting 9 10 a temporary line in, and DP&L Electric, along with 11 some other area facilities, will be moving onto a 12 pole line. There will also be a 13 Time charges: 14 final relocation with DP&L Gas, and that will be 15 outside of the suspension period. Time charges will 16 not be suspended for that work. The aerial relocations will need the 17 contractor to provide an access, which is the 18 19 hatched kind of road area you see in there. And that is really nothing more than a cleared area of 20 21 stone and things like that. Where you're going through the wetlands, you will need the composite 22 23 matting, which you can see in the shaded circle 24 above.

1 And also, if you take a look at the notes in there, we need a pit basically excavated, a 2 3 10 by 15 area, 5-foot deep, lined with geo-textile 4 and backfilled with lightweight aggregate. There is 5 a spec for the lightweight aggregate in the plans. The utility is going to use that to 6 7 set the holes from. And the reason that's in there is because of the proximity to a 72-inch sanitary 8 sewer which is maintained by New Castle County. 9 10 So gas line relocation, as I 11 mentioned, first DP&L is going to do a temporary 12 relocation. They are actually going to do that on the bridge deck in the pedestrian walkway on the 13 eastern side of the existing bridge. 14 Once the superstructure is being 15 16 placed, there will be a permanent relocation of that 17 It's going to hang from the bridge in the qas line. 18 center bay between the concrete girders. New Castle County has a 72-inch 19 sanitary sewer force main facility that they 20 21 maintain between the landfill and the river. This is a very important facility for the County. 22 It was 23 constructed in 1974. It was a 72-inch prestressed 24 concrete cylinder pipe. It is under pressure. Ιt

1 has flow rates of 50 million gallons per day when 2 dry and, when wet, up to 200 million gallons per 3 day. 4 The system has little to no So if there is a failure out there, 5 redundancy. б it's going to be a catastrophic failure. 7 The inspection data that we have available, the joints on this system were inspected 8 in 2009 in October. No leakage was found. 9 But no 10 structural on these inspections have been undertaken 11 to date. 12 Because of that, we have worked with the County to come up with some restrictions that we 13 14 are going to have to apply so that their facility 15 remains intact and we do work to the best that we 16 can to limit any potential for anything going wrong 17 with that pipe. 18 And what we have done is we have a 19 limit of vibrations on the pipe of 0.2 inch per second, and any horizontal or vertical movement is 20 21 .03125 inches. Also, on the south side of the 22 23 Christina, the only equipment that will be allowed 24 in there will meet the Delaware legal load.

1 DelDOT has put together a 2 construction monitoring plan. They will set up 3 monitoring equipment adjacent to the pipe and 4 monitor throughout construction. If any of those thresholds are 5 б exceeded, you will be told to immediately stop work 7 and revise your procedure. 8 These are the emergency contacts for New Castle County. So because of the -- again, 9 10 because of the significance of this facility, we are 11 going to put a fence, basically, around the facility 12 to show where it's at. You are not supposed to be 13 in that fence. Nothing can cross the pipe. It will 14 be flagged before construction. 15 Any work within that area will be 16 limited to hand cutting brush, trees, et cetera. 17 And we will be erecting a construction fence that 18 has signs on it every 25 to 40 feet which will 19 delineate the area where the sanitary sewer is. This is some detail that you see in 20 21 the plans of what we expect with the fence and the side, the sanitary sewer. 22 23 If something does go wrong, New 24 Castle County has put together a procedure for

1 addressing that. The contractor would immediately 2 contact the County, and we would take every 3 precaution not to make the damage worse than what it 4 is. 5 And you may need to assist the County б in getting equipment et cetera out of the way. They 7 will have prequalified contractors available that would come in and take care of a leak or a break if 8 9 one occurred. 10 It also requires some notification to 11 New Castle County prior to any of the ten activities 12 noted there commencing. New Castle County will also be 13 14 reviewing the job drawings, so they need an extra 15 two weeks to do that for any of the five items 16 there. 17 We will be using lightweight 18 aggregate fill for this contract. It will be used 19 for the embankment material. And we will require over excavating. Basically, the amount that fill 20 21 that is going in, you'll have to over excavate that much out before you start backfilling. 22 There is a 23 spec for that. 24 Some of the other precautions, we

1	have come up with a coffer dam to construct pier
2	one. The crux of this thing is you can't vibrate
3	because of the you can't vibrate in the sheathing
4	because of the restrictions on your vibrations,
5	because of the proximity to the 72-inch sanitary
6	sewer, so we have designed this so that you will
7	have to actually use some type of a push-in
8	equipment to install the sheathing.
9	There is a procedure that's outlined
10	in those notes which will tell you how we expect the
11	coffer dam to be installed. Basically, one of the
12	push-in pile installation equipment is shown there
13	on the bottom left. And you can see directly above
14	that what we intend in terms of the coffer dam that
15	would be built there.
16	Now, that coffer dam will mitigate
17	any settlements, any vibrations, et cetera that
18	happen that could possibly affect that pipe.
19	Also, we will be using drilled shafts
20	for this contract. The drilled shafts will be
21	installed by oscillating to a depth of minus 40.
22	Beyond that, the vibration again, it will be
23	protected by this coffer dam, which you can see in
24	the upper left.



1 Also, there will be a row of sheathing that's applied to the front of Abutment A. 2 3 Again, that's going to isolate the sanitary sewer 4 from any vibrations, et cetera, that happen while you're installing your drilled. 5 CATHERINE CHIA-CALABRIA: 6 Excuse me. 7 I want to make a clarification. The drilled shaft, you can oscillate it in, and then beyond 40 feet, 8 you said you can vibrate it in. But you still have 9 10 to meet the threshold vibration. 11 MR. ANGELO: Correct. Thank you, 12 Cathy. Yes, you still have to meet that threshold vibration that we have for the vibrations, no matter 13 14 what. 15 We will be installing one technique 16 shaft for this. And we are using permanent casings. 17 All the drilled shafts will have permanent casings. 18 The permanent casings will be emitted above a 19 certain elevation. The technique shaft will be located near pier four. 20 21 In terms of demolition, we want basically the entire substructure removed except the 22 23 abutments and wings, existing wings. 24 The bascule pier where all the



1 equipment is will be moved to below mud line. The 2 rest pier also will be moved to below mud line. The 3 existing superstructure would be removed totally. 4 The abutments will stay in place. The wings will stay in place. And we would want the eastern-most 5 parapets removed, and it's detailed out in that б 7 detail that we have on the screen. And last but not least, we talked 8 about the liability insurance already. With that, 9 10 we will open it up to any questions. 11 UNIDENTIFIED SPEAKER: Does anybody 12 have any questions about access? Is it clear about 13 what we are going to let you do or not? 14 THE REPORTER: Who is talking? 15 MR. KOVACS: Let me say something 16 real quick. Before we start talking, whoever starts 17 talking, can you please just state your name --18 UNIDENTIFIED SPEAKER: I'm sorry. 19 MR. KOVACS: State who you represent before you ask your question every time so we can 20 21 get a good recording. I apologize. 22 MR. COSTELLO: This is 23 Chris Costello with DelDOT Construction. 24 MR. CONLEY: Mitch Conley with DelDOT

1 Construction. There was a note on the plans about 2 no in-water work the first Sunday in October. But 3 I'm pretty sure with the Newport Rowing Club 4 participating in regatta that weekend, that they may not be able to close the bridge that weekend, 5 either. So even though we give sometimes when you 6 7 can close it on weekends, that particular weekend 8 you will not be allowed to close it. 9 MR. KOVACS: Does anyone have any 10 questions? 11 MR. HUYNH: Charlie with Case 12 Foundation. So there is a technique and a load test, I believe, that's done for the shaft. 13 So on 14 the load test, after that's done, typically how long of a review process will you guys take until we can 15 16 qo in production? A week? Two weeks? T mean 17 what's the normal ACN spec? 18 MR. ANGELO: I would assume you have 19 two-week amount of time. Would it be permissible 20 MR. HUYNH: 21 to, within that time, though, to install -- to do other productive work besides portion out where the 22 23 oscillate, rotate casings in, or something to that 24 effect within that down time? Would that be

1 considered? 2 MR. HASTINGS: (Inaudible - speaking 3 low and looking away from reporter) 4 THE REPORTER: I'm sorry. What was 5 your answer? MR. HASTINGS: Sorry. 6 Jason 7 Hastings, DelDOT Bridge. I was just saying that we shouldn't have to hold them up from doing some of 8 the advanced -- some of the other work on some of 9 10 the other shafts during that time. 11 MR. CONLEY: Okay. Mitch Conley, 12 DelDOT Construction. Does any of the contractors foresee 13 14 bringing in barges for any of the work? 15 (People are nodding heads affirmatively) 16 MR. CONLEY: If so, you need to check 17 out the railroad bridge downstream to see how high 18 it is at low tide to get through. The tide varies between six and nine feet. And at high tide the 19 railroad bridge -- it used to be a swing bridge, and 20 21 it's welded shut. You only have the 3 feet clearance, 3 or 4 feet clearance, so you need to 22 23 check that out. 24 MR. KOVACS: Is that it? Is that it?

1 Did everybody sign in? I just want to make sure. 2 MR. HASTINGS: Make sure it was the official form. 3 MR. KOVACS: Yeah, the official -- I 4 just want to make sure everybody signed in. 5 You need to be signed in on that clipboard in order to б 7 submit your bid. She did, then? We are good to go. Like I said before, if you remember 8 anything or if you remember something after you 9 10 leave and you want to submit a question, I have the 11 address up here, if you don't already have it. You 12 know, just send it in, and we will get it answered 13 as soon as we can. 14 So if nobody has anything else, then Thank you. 15 we are adjourned. 16 (Concluded at 2:28 p.m.) 17 18 19 20 21 22 23 24



## CERTIFICATE

1	CERTIFICATE
2	I, Lorena J. Hartnett, a Notary Public and
3	Registered Professional Reporter, do hereby certify that
4	the foregoing is an accurate and complete transcription of
5	the proceeding held at the time and place stated herein,
6	and that the said proceeding was recorded by me and then
7	reduced to typewriting under my direction, and constitutes
8	a true record of the testimony given by said witnesses.
9	I further certify that I am not a relative,
10	employee, or attorney of any of the parties or a relative
11	or employee of either counsel, and that I am in no way
12	interested directly or indirectly in this action.
13	IN WITNESS WHEREOF, I have hereunto set my
14	hand and affixed my seal of office on this 18th day of
15	January 2016.
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19	And man percent
20	Lorena J. Hartnett Registered Professional Reporter
21	Registered Professional Reporter
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