

Discuss 4/7

Gary Ange

From: Doug Haggett <haggettengineeri@bellsouth.net>
Sent: Tuesday, April 3, 2018 5:21 AM
To: Gary Ange
Cc: 'Jake Davis'; Kim Quinn
Subject: Re: Queens Grant

Gary,

As I noted in my email yesterday, the Final Certification will not be accepted by the Division without the following three items attached:

1. Record Drawing (signed and sealed)
2. Calculations (signed and sealed)
3. "copy of the Articles of Incorporation, Declarations/Covenants/Restrictions and Bylaws that have been appropriately filed with the applicable County's Register of Deeds Office".

Based on your email dated March 23, 2018 it seemed probable that the required Covenants and Restrictions would be recorded following the April 7th meeting. If this is not the case, then the submittal of the Final Certification to the Division will be delayed. Please feel free to discuss with Dean Hunkele at the WRO. Dean and I had a discussion on this issue and why it is not included as a requirement for acceptance of the Final Certification. Dean agreed to accept the Partial Certification with some reservation as he believed it should also be submitted with the attachments. However, since this was an operating facility he said he did not see any reason to delay operation of the new lift station as it is an improvement to the system.

Please advise if we need to discuss further.

Best Regards,

Doug

On 4/2/2018 4:20 PM, Gary Ange wrote:

Doug, I have a final certification you sent me regarding the lift station replacement that you stamped and dated 4/13/18. I've had Kim sign it and when do I send it to you?

-----Original Message-----

From: Doug Haggett [<mailto:haggettengineeri@bellsouth.net>]
Sent: Monday, April 2, 2018 1:33 PM
To: Dean Hunkele
Cc: Gary Ange; Kim Quinn; 'Jake Davis'
Subject: Queens Grant

Hey Dean,

Attached is the Partial Certification for the new lift station at Queens Grant. As soon as Dwight is able to complete the transition and the covenants are recorded, I will get you the Final Certification along with the Record Drawing and Calculations.

Thanks for your help on the project.

Best Regards,

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Doug Haggett, P.E.
Haggett Engineering Associates, Inc.
5307 S. College Road, Suite 2B
Wilmington, NC 28412
Phone: (910) 397-0808
Mobile: (910) 620-7516
Email: haggettengineeri@bellsouth.net

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Doug Haggett, P.E.
Haggett Engineering Associates, Inc.
5307 S. College Road, Suite 2B
Wilmington, NC 28412
Phone: (910) 397-0808
Mobile: (910) 620-7516
Email: haggettengineeri@bellsouth.net

FAST TRACK SEWER ENGINEERING CERTIFICATION

PERMITTEE: R & Q Incorporated
PERMIT #: WQ0036782
PROJECT: Queens Grant Pump Station Replacement
ISSUE DATE: June 8, 2017
COUNTY: Pender

This project shall not be considered complete nor allowed to operate in accordance with Condition 7 of this permit until the Division has received this Certification and all required supporting documentation. Consequently, it should be submitted in a manner that documents the Division's receipt. Send the required documentation to the Wilmington Regional Supervisor, Water Quality Section at the address at the bottom.

Any wastewater flow made tributary to the wastewater collection system extension prior to completion of this Certification shall be considered a violation of the permit and shall subject the Permittee to appropriate enforcement actions. The Permittee is responsible for tracking all partial certifications up until a final certification is received. A Final Certification shall be a complete set of record drawings and design calculations regardless of whether partials have been submitted.

PERMITTEE'S CERTIFICATION

I, the undersigned agent for the Permittee, hereby state that this project has been constructed pursuant to the applicable standards & requirements, the Professional Engineer below has provided applicable design/construction information to the Permittee, and the Permittee is prepared to operate & maintain the wastewater collection system permitted herein or portions thereof.

Kim Quigg, President [Signature] 3-29-2018
Printed Name, Title Signature Date

ENGINEER'S CERTIFICATION

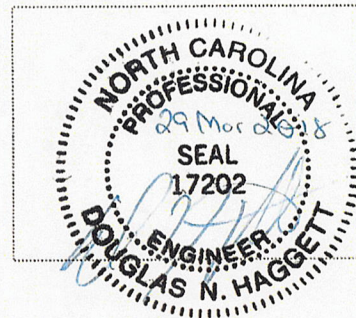
I, Douglas N. Haggett, P.E., as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project name and location as referenced above for the above Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance of this permit; 15A NCAC 2T; the Division of Water Resources' (Division) Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable; and other supporting materials.

North Carolina Professional Engineer's Seal w/signature & date

Final Partial

Certification Comments/Qualifiers:

The lift station and associated piping is sufficiently complete to allow the flow to be transitioned from the old lift station to the new. Once this has been done, the old lift station can be converted to a manhole and the installation completed with Final Certification.



Queen's Grant Recreation Association Board Meeting Saturday November 19, 2016

Call to Order:

The Recreation Association Meeting was called to order at 11:16am by Chuck Esserwein.

Roll Call:

The meeting attendance was as follows:

REC Board:

Chuck Esserwein
Victor Santoro (call in)
Raymond Joyner
Ron Brown
Bonnie Moore
Billy Sutton
Jimmy Williams (*proxy to Chuck Esserwein*)

Management: MEA Properties represented by Anita Afify & Jonalyn Long

Other Board Members in Attendance:

Kristine Perry (THA)
Martin Jarvis (THA)
Kaywood Draughon (THA)
Steven Payne (THA)

Guests:

Bill Fox

All members represented of REC Board- Quorum Established.

Motion to waive notice of meeting.

Motion – BS, 2nd RB

All in favor, motion carries.

Joint Venture Agreement:

Per the approved motion from the September meeting, Chris Behm from Jeff Keeters office was working with R&Q attorneys to resolve the JVA. There have been conversations between Chuck and Kim, but the dissolution of the JVA needs to be a Board Decision.

Nothing has been received from the Attorney's to date.

Bill Fox presented earlier in the day

Primary design objectives for the project were identified in the JVA:

- Designed treatment capacity of 36k gallon/day.
- Operational efficiency through automation, requiring minimal manual intervention.
- Design for lowest maintenance and operational costs.
- 50 year minimum service lifetime tanks, piping, and major system components.
- Aesthetic considerations by burying tanks, use of landscaping and fencing, minimal odor and minimal noise.

"It is my opinion, as supported within the details of the report, the WWTP now meets the goals and intended purpose of the Joint Venture Agreement, and the Queen's Grant collective good is best served

by dissolving the Joint Venture and taking full control of all pertinent permits for the operation of the facility.”

Lift Station Concerns:

- The issue with the pump is a longevity issue. The increased depth of the wet well will increase the life of the pump.
- Kim Quinn’s commitment was firm during the earlier meeting, that he would rebuild the lift station to the approved design escrowing \$25K now for the project.
- Lift station rebuild should be included in the dissolution of the JVA.
- Need to include parameters to be in compliance with permits.
 - Dissolution of the JVA is the first step to transferring permits.
- Anticipated cost for the rebuild - \$50K - \$60K.
 - WWTP shut down for a week – 10 days for the rebuild. (Entire complex without water).

WWTP Operation:

- 2 pumps taking turns running (lead & lag)
 - When one is down, then the other runs non-stop
 - Should have spare pump onsite, although the replacement is a difficult job.
- REC Association Operational Budget needs to include WWTP Operation and Maintenance.
 - 16 pumps total, one is down now. Cost to replace - \$1,500
 - Frozen pump in overflow tank
 - Maintenance detailed

Motion to dissolve the JVA immediately contingent on R&Q rebuilding the WWTP lift station per the approved design by Doug Hagggett within the next 12 months.

Motion – Billy Sutton

Second – Ron Brown

All in favor, motion carries.

Pool Support Wall / Storm Water Drainage / Pool Repair Project Update:

Pool Support Wall:

- Engineers drawings received in October
 - Proposes tearing down and building support wall out of Shoreguard, a vinyl product similar to the current seawall material.
 - Removing the pool deck back to the brick and when rebuilt, bringing over the edge of the support wall to allow minimal drainage behind the wall.
 - Drawings sent to 4 Marine Construction Companies – 1 quote received this week = \$72,500
 - Estimate another \$2,500 to drill weep holes in the seawall
 - Anticipate 2 months needed to proceed with proposals/permitting before work can begin.

Storm Water Drainage:

- Discussed storm water drainage from parking lot and between pool wall and seawall with Engineer
 - Agreed with proposed plan
 - Need approval of proposals by R&Q Engineer (Howard Resnic) to be in compliance with storm water permit held by R&Q
 - Anticipating receipt of 1 proposal by Thanksgiving and the remaining 2 by the end of the month.
- REC board should hire a marine engineer to design the seawall repairs and storm water drainage in that area.

- Could the engineer that provided the drawings for the pool support wall sign off on the seawall and storm water drainage?
- No Engineered plans for the seawall repair in 2015 – no one to hold liable.
 - The marine construction company should be held responsible. Didn't account for the drainage.

Pool / Hot Tub Repairs:

- Leak detection company noted that all 6 skimmers in the pool are leaking.
- Attempting to receive 3 quotes to repair skimmers and to replace the pool liner
 - No leaks found in liner, but since the pool needed to be drained presenting options to replace the liner since it's nearing the end of its useful life (10-12 years)
- Hot Tub – Board approved replacement of the blower motor in the spring.
 - Hasn't been resurfaced since installation, requesting quotes from pool repair companies.

The projects need a clear scope of work.

An engineer needs to be involved and sign off on all projects.

Package needs to be sent to Homeowners with details (water being shut off).

Adjournment:

Move to adjourn 12:45pm

THE ABOVE MINUTES ARE AN OBJECTIVE ACCOUNT OF THE BUSINESS CONDUCTED AND ARE USED TO PROVIDE A RECORD OF ACTIONS TAKEN AT THE MEETING.

2. For privately owned collection systems, the Grease Control Program shall include at least bi-annual distribution of grease education materials to users of the collection system by the permittee or its representative.
3. Grease education materials shall be distributed more often than required in Parts (1) and (2) of this Subparagraph if necessary to prevent grease-related sanitary sewer overflows.
- i. Right-of-ways and easements shall be maintained in the full easement width for personnel and equipment accessibility.
- j. Documentation shall be kept for Subparagraphs (a) through (i) of this Rule for a minimum of three years with exception of the map, which shall be maintained for the life of the system.

5. **Noncompliance Notification:**

The Permittee shall report by telephone to a water resources staff member at the Wilmington Regional Office, telephone number (910) 796-7215, as soon as possible, but in no case more than 24 hours or on the next working day, following the occurrence or first knowledge of the occurrence of either of the following:

- a. Any process unit failure, due to known or unknown reasons, that renders the facility incapable of adequate wastewater transport, such as mechanical or electrical failures of pumps, line blockage or breakage, etc.; or
- b. Any SSO and/or spill over 1,000 gallons; or
- c. Any SSO and/or spill, regardless of volume, that reaches surface water

Voice mail messages or faxed information is permissible, but this shall not be considered as the initial verbal report. Overflows and spills occurring outside normal business hours may also be reported to the Division of Emergency Management at telephone number (800) 858-0368 or (919) 733-3300. Persons reporting any of the above occurrences shall file a spill report by completing and submitting Part I of Form CS-SSO (or the most current Division approved form) within five days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur. Part II of Form CS-SSO (or the most current Division approved form) can also be completed to show that the SSO was beyond control. [G.S. 143-215.1C(a1)]

6. Construction of the gravity sewers, pump stations, and force mains shall be scheduled so as not to interrupt service by the existing utilities nor result in an overflow or bypass discharge of wastewater to the surface waters of the State. [15A NCAC 02T.0108(b)]
7. Upon completion of construction and prior to operation of these permitted facilities, the completed Engineering Certification form attached to this permit shall be submitted with the required supporting documents to the address provided on the form. A complete certification is one where the form is fully executed and the supporting documents are provided as applicable. Any wastewater flow made tributary to the wastewater collection system extension prior to completion of this Engineer's Certification shall be considered a violation of the permit and shall subject the Permittee to appropriate enforcement actions.

If the permit is issued to a private entity with an Operational Agreement, then a copy of the Articles of Incorporation, Declarations/Covenants/Restrictions, and Bylaws that have been appropriately filed with the applicable County's Register of Deeds office shall be submitted with the certification.

4-7-18