

Instructions for Positive Bacteriological Samples

If multiple raw water samples are found to be **positive** for total coliform and **negative** for *E. coli* and other fecal indicators, additional treatment may be required and the conditions established in the exception letter may be revised. TCEQ personnel recommend reviewing the sample collection protocol to ensure proper sample collection methods are in place. Personnel also recommend well disinfection according to American Water Works Association (AWWA) well disinfection standards.

If a raw water sample is found to be **positive** for total coliform and **positive** for *E. coli* or other fecal indicators, Groundwater Rule requirements include:

- A. Issuance of a Public Notice to water system customers in accordance with 30 TAC §290.122(a) within 24 hours of being notified of the positive result.
- B. Notification to all consecutive systems served by the well within 24 hours of being notified of the positive result.
- C. Notification to TCEQ Drinking Water Quality Team personnel at 512-239-4691 or GWRdata@tceq.texas.gov within 24 hours of being notified of the positive result.
- D. Implementation of one or more of the Corrective Actions described in 30 TAC §290.116 as indicated by TCEQ Drinking Water Quality Team personnel.

Additionally, the exception may be revoked or the conditions established in the exception letter may be revised.

Information on the Groundwater Rule can be found by calling 512-239-4691 and asking to speak to a member of the Drinking Water Quality Team or at the following website:

http://www.tceq.texas.gov/drinkingwater/microbial/gwr_main.html

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niemann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

10/28/16

RECEIVED

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

TX ADMIN-AUSTIN

October 28, 2016

CERTIFIED MAIL - RETURN RECEIPT REQUESTED 91 7199 9991 7033 3026 0945

Mr. Robert Laughman, President
Aqua Utilities, Inc.
1106 Clayton Lane, Suite 400W
Austin, Texas 78723

Re: Notice of Enforcement
B & W Gatherings Wastewater Treatment Facility
RN101518926, TPDES Permit No. WQ0011332001, EPA ID No. TX0062014
CCEDS Investigation No. 1363397

Dear Mr. Laughman:

We have conducted a record review investigation of the self-reported data for the above-referenced permit and noted the following alleged violations.

Alleged Violations

1.	Failure to comply with the permit effluent limit for Total Suspended Solids daily average (mg/L) at Outfall 001A for the monitoring periods ending 03/31/2016 and 04/30/2016.
2.	Failure to comply with other permit effluent limits during the period of 01/2016 through 07/2016.

The Legislature has granted enforcement powers to the TCEQ to carry out its mission to protect human health and the environment. Due to the apparent seriousness of the alleged violations, formal enforcement action has been initiated, and additional violations may be cited upon further review. We encourage you to immediately begin taking actions to address the outstanding alleged violations.

In responding with prompt corrective action, the administrative penalty to be assessed may be limited.

The Commission recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. We dedicate considerable resources toward making voluntary compliance achievable. But where compliance has not been met it is our duty to protect the public and the environment by enforcing the state's environmental laws, regulations, and permits.

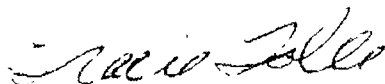
Mr. Robert Laughman
Page 2

Also, if you believe the violations documented in this notice have been cited in error, **and** you have additional information that we are unaware of, you may request a meeting to discuss this enforcement matter. To request a meeting, send a letter describing the additional information to the address shown below.

Manager, Water Section
Enforcement Division, MC 219
Re: Enforcement Meeting Request
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

If you or members of your staff have any questions, please feel free to contact Ms. Tennille Thomas of my staff at (512) 239-1269.

Sincerely,



Ms. Tracie Tolle, Work Leader
Compliance Monitoring Team (MC 224)
Texas Commission on Environmental Quality

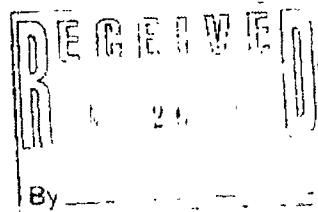
BJH

Bryan W. Straw, Ph.D., P.E. *Chairman*
Toby Baser *Commissioner*
Jon Neumann *Commissioner*
Richard A. Hyde, P.E. *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 20, 2016



Mr. Robert Laughman
President
Aqua Utilities, Inc.
1106 Clayton Lane, Suite 400 West
Austin, Texas 78723

Re: Notice of Compliance with Agreed Order
Aqua Utilities, Inc.; RN101518926
Docket No. 2014-0193-MWD-E; Enforcement Case No. 48237

Dear Mr. Laughman:

This letter is to inform you that a review of Texas Commission on Environmental Quality (TCEQ) records concerning the above-referenced enforcement matter indicates that Aqua Utilities, Inc. has fulfilled the requirements of the Agreed Order effective on August 1, 2014. Specifically, Aqua Utilities, Inc. has fulfilled the technical requirements and has paid the administrative penalty assessed in the Agreed Order. Based upon this, we conclude that your response has been satisfactory and no further action is necessary at this time with respect to this enforcement matter. The Order will remain on the compliance history for this regulated entity for five years from the effective date of the Order.

We appreciate your cooperation, and if we can be of any further assistance, please contact Mr. John Shelton at (512)239-2563.

Sincerely,

Lanae Foard, Work Leader
Enforcement Division

cc: Mr. Abel Bautista, Wastewater Compliance Coordinator, Aqua Utilities, Inc. , 2211 Louetta Road, Spring, Texas 77388

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



By Mr. Niermann
11332-001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 17, 2015

Mr. Robert Laughman, President
Aqua Utilities, Inc.
1106 Clayton Lane, Suite 400 West
Austin, Texas 78723

RECEIVED

NOV 23 2015

TX ADMIN-AUSTIN

Re: Third Amended Schedule for Compliance with Ordering Provisions
Aqua Utilities, Inc.; RN101518926
Docket No. 2014-0193-MWD-E; Enforcement Case No. 48237
Agreed Order Effective Date: August 1, 2014

Dear Mr. Laughman:

We are in receipt of letters dated August 27, 2015 and October 16, 2015, from Mr. Abel Bautista, which requested an amended schedule for completion of Ordering Provision No. 2 of the above-referenced Agreed Order. Your letter also provided specific reasons for delays.

Based upon the reviewed information, we approve an amended schedule. The new deadline for compliance with Ordering Provision No. 2 is February 29, 2016.

Thank you for your continuing efforts to achieve compliance. If you have any questions, please contact John Shelton of the Enforcement Division staff at (512)239-2563.

Sincerely,

Handwritten signature of Bryan Sinclair in cursive.

Bryan Sinclair, Director
Enforcement Division

cc: Mr. Abel Bautista, Wastewater Compliance Coordinator, Aqua Utilities, Inc., 2211 Louetta Road, Spring, Texas 77388
Mr. Scot W. Foltz, Environmental Compliance Manager, 1106 Clayton Lane, Suite 400W, Austin, Texas, 78723

Mike

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution
March 30, 2015

RECEIVED

APR 06 2015

TXADMIN-AUSTIN

Mr. Scot Foltz, Environmental Compliance Manager
Aqua Utilities
1106 Clayton Ln., Ste. 400
Austin, TX 78723

Re: Compliance Evaluation Investigation at:
B & W Gatherings Wastewater Treatment Plant, north of Highcrest Drive and Moss
Downs Drive, near Granite Shoals, Burnet County
Regulated Entity No.: RN101518926, TCEQ ID No.: WQ0011332001,
EPA ID No.: TX0062014

Dear Mr. Foltz:

On February 20, 2015, Ms. Patricia Phillips of the Texas Commission on Environmental Quality (TCEQ) Austin Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for wastewater treatment. No violations are being alleged as a result of the investigation, however, please see the enclosed Additional Issue.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Patricia Phillips in the Austin Region Office at (512) 339-2929.

Sincerely,

Shawn Stewart
Water Section Work Leader
Austin Region Office

SS/pjp

cc: Abel Bautista, Wastewater Compliance Coordinator, Aqua Texas, Inc., 2211 Louetta Rd.,
Spring, TX 77388 (include Attachment)

Attachment: Summary of Investigation Findings

Summary of Investigation Findings

B & W GATHERING WWTP

Investigation #

, BURNET COUNTY,

1227883
Investigation Date: 02/20/2015

Additional ID(s): TX0062014
WQ0011332001

No Violations Associated to this Investigation

ADDITIONAL ISSUES

Description

Is the regulated entity compliant with the self-monitored effluent limitations?

Additional Comments

The permit holder has an active Agreed Order Docket No. 2014-0193-MWD-E for effluent exceedances between 01/2013-08/2013. According to enforcement procedures, self-reported violations that occurred after 08/2013 cannot be included in enforcement action while the technical requirements of the active Agreed Order are still open and compliance has not been certified. The current on-site investigation noted 8 instances of noncompliance with the permit parameters during the review period of December 2013 - January 2015:
TSS Daily Average exceeded for Feb., March, Aug., and Nov. 2014
BOD5-day Daily Average exceeded for June and Aug. 2014
Total Phosphorus Daily Average exceeded for March 2014
Chlorine residual minimum level was not met for April 2014
The permittee is reminded that self-reported effluent violations are subject to enforcement, including penalties, upon review by the Enforcement Division.

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niernann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 24, 2016

CERTIFIED MAIL #91 7199 9991 7033 2846 0067
RETURN RECEIPT REQUESTED

RECEIVED

Mr. Scott Foltz, Manager
Aqua Utilities
1106 Clayton Ln., Ste. 400
Austin, TX 78723

TX ADMIN-AUSTIN

**Re: Notice of Violation for Compliance Evaluation Investigation at:
B&W Gatherings WWTF, Highcrest Dr., Granite Shoals (Burnet County), Texas
TCEQ Additional ID:WQ0011332001, EPA ID No:TX0062014, Investigation No. 1337746**

Dear Mr. Foltz:

On June 8, 2016, Michael Daniels of the Texas Commission on Environmental Quality (TCEQ) Austin Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for wastewater treatment. Enclosed is a summary which lists the investigation findings. During the investigation, an alleged violation was identified for which compliance documentation was required. Based on the information you have provided, the TCEQ has adequate documentation to resolve the alleged violation. Therefore, no further action is required. Self-reported effluent violations may be subject to enforcement, including penalties, upon review by the Enforcement Division.

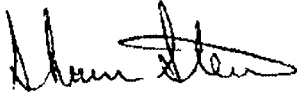
In the listing of the alleged violation, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <http://www.tceq.state.tx.us> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Austin Region Office at 512-339-2929 or the Central Office Publications Ordering Team at 512-239-0028.

The TCEQ appreciates your assistance in this matter. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements. If you have additional information that we are unaware of, you have the opportunity to contest the violation documented in this notice. Should you choose to do so, you must notify the Austin Region Office within 10 days from the date of this letter. At that time, Ms. Carolyn Runyon will schedule a violation review meeting to be conducted within 21 days from the date of this letter. However, please be advised that if you decide to participate in the violation review process, the TCEQ may still require you to adhere to the compliance schedule included in the enclosed Summary of Investigation Findings until an official decision is made regarding the status of any or all of the contested violations.

Mr. Scott Foltz
Page 2
June 24, 2016

If you or members of your staff have any questions, please feel free to contact Mr. Michael Daniels in the Austin Region Office at 512-339-2929.

Sincerely,

A handwritten signature in black ink, appearing to read "Shawn Stewart". The signature is fluid and cursive, with a large, sweeping flourish at the end.

Shawn Stewart
Water Program Work Leader
Austin Region Office

SS/mjd

cc: Mr. Abel Bautista, Compliance Coordinator, Aqua Texas, 2211 Louetta Rd., Spring, TX 77388 (include Summary of Investigation Findings)
Mr. Michael Merka, Supervisor, Aqua Texas, 3209 Hillbilly Ln., Austin, TX 78746 (include Summary of Investigation Findings)

Summary of Investigation Findings

B & W GATHERING WWTP	Investigation # 1337746
, BURNET COUNTY,	Investigation Date: 06/08/2016
Additional ID(s): TX0062014 WQ0011332001	

ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 608358

2D TWC Chapter 26.121(a)(1)

Alleged Violation:

Investigation: 1337746

Comment Date: 06/21/2016

Failed to prevent an unauthorized discharge. On March 23, 2016, an estimated 2,000 to 3,000 gallons of wastewater were discharged from the collection system at 1902 Lake Crest Drive into the ditch when a contractor hit the low pressure force main. A portion of the discharge reached Lake LBJ. A fish kill was not observed.

Recommended Corrective Action: Take actions to stop the discharge, repair the leak, clean up the affected area, and report the discharge to the TCEQ.

Resolution: The flow in the low pressure force main was stopped. A dam was built to stop the flow of wastewater into the lake. A vacuum truck recovered approximately 2,000 gallons of wastewater. HTH was spread on the ground to disinfect the affected area. The broken service line was replaced. The TCEQ was notified by telephone and by written report.

ADDITIONAL ISSUES

Description

Is the regulated entity compliant with the self-monitored effluent limitations?

Additional Comments

The TSS daily average limit of 5 mg/L was exceeded in March 2016 (8.63 mg/L) and April 2016 (15 mg/L). The TSS daily average limit of 1.3 lb/day was exceeded in April 2016 (2.26 mg/L). Self-reported effluent violations may be subject to enforcement, including penalties, upon review by the Enforcement Division.

Guyon W. Shaw, Ph.D., *Chairman*
Johy Baker, *Commissioner*
Jon Niemann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 27, 2016

Mr. Robert Laughman
President
Aqua Development, Inc.
2211 Louetta Road
Spring, Texas 77388

Re: TCEQ Enforcement Action
Aqua Development, Inc.
Docket No. 2015-1225-MWD-E

Dear Mr. Laughman:

Enclosed for your records is a fully-executed copy of the Agreed Order for the above-referenced matter.

Please review the enclosed Agreed Order, particularly the "Ordering Provisions" section, to determine if further action will be required of you, such as the completion of technical requirements to achieve compliance. When technical requirements are listed (usually Ordering Provision No. 2 or 3), a deadline will be provided based on a specific number of days after the effective date. The effective date is as stated in the enclosed Agreed Order.

Should you have any questions, please contact Christopher Bost, the Enforcement Coordinator assigned to this matter, at (512) 239-4575.

Sincerely,

Melissa Cordell

Melissa Cordell
Assistant Division Director
Enforcement Division

Enclosure

cc: Christopher Bost, Enforcement Division
Water Section Manager, Region 11

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



IN THE MATTER OF AN
ENFORCEMENT ACTION
CONCERNING
AQUA DEVELOPMENT, INC.
RN102343015

§
§
§
§
§

BEFORE THE
TEXAS COMMISSION ON
ENVIRONMENTAL QUALITY

AGREED ORDER
DOCKET NO. 2015-1225-MWD-11

I. JURISDICTION AND STIPULATIONS

On MAY 24 2016, the Texas Commission on Environmental Quality ("the Commission" or "TCEQ") considered this agreement of the parties, resolving an enforcement action regarding Aqua Development, Inc. ("Respondent") under the authority of TEX. WATER CODE chs. 7 and 26. The Executive Director of the TCEQ, through the Enforcement Division, and the Respondent together stipulate that:

- 1. The Respondent owns and operates a wastewater treatment facility located approximately two miles east of the intersection of Farm-to-Market Road 973 and Blake Manor Road in Travis County, Texas (the "Facility").
- 2. The Respondent has discharged sewage into or adjacent to any water in the state under TEX. WATER CODE ch. 26.
- 3. The Executive Director and the Respondent agree that the Commission has jurisdiction to enter this Agreed Order, and that the Respondent is subject to the Commission's jurisdiction.
- 4. The Respondent received notice of the violations alleged in Section II ("Allegations") on or about July 11, 2015.
- 5. The occurrence of any violation is in dispute and the entry of this Agreed Order shall not constitute an admission by the Respondent of any violation alleged in Section II ("Allegations"), nor of any statute or rule.

1. An administrative penalty in the amount of Three Thousand Five Hundred One Dollars (\$3,501) is assessed by the Commission in settlement of the violations alleged in Section II ("Allegations"). The Respondent has paid Two Thousand Eight Hundred One Dollars (\$2,801) of the administrative penalty and Seven Hundred Dollars (\$700) is deferred contingent upon the Respondent's timely and satisfactory compliance with all the terms of this Agreed Order. The deferred amount will be waived upon full compliance with the terms of this Agreed Order. If the Respondent fails to timely and satisfactorily comply with all requirements of this Agreed Order, the Executive Director may require the Respondent to pay all or part of the deferred penalty.
2. Any notice and procedures, which might otherwise be authorized or required in this action, are waived in the interest of a more timely resolution of the matter.
3. The Executive Director and the Respondent agree on a settlement of the matters alleged in this enforcement action, subject to final approval in accordance with 30 TEX. ADMIN. CODE § 70.10(a).
4. The Executive Director recognizes that the Respondent has implemented the following corrective measures at the Facility:
 - a. By February 9, 2015:
 - i. Ceased the discharge of wastewater from the Facility's influent lift station;
 - ii. Collected and properly disposed of the discharged wastewater;
 - iii. Remediated the affected areas; and
 - iv. Replaced the defective electrical component in the control panel
 - b. By June 5, 2015, began ensuring that an operator with a Category B wastewater license operates the Facility in the absence of the Facility's lead operator.
5. The Executive Director may, without further notice or hearing, refer this matter to the Office of the Attorney General of the State of Texas ("OAG") for further enforcement proceedings if the Executive Director determines that the Respondent has not complied with one or more of the terms or conditions in this Agreed Order.
6. This Agreed Order shall terminate five years from its effective date or upon compliance with all the terms and conditions set forth in this Agreed Order, whichever is later.
7. The provisions of this Agreed Order are deemed severable and, if a court of competent jurisdiction or other appropriate authority deems any provision of this Agreed Order unenforceable, the remaining provisions shall be valid and enforceable.

II. ALLEGATIONS

As owner and operator of the Facility, the Respondent is alleged to have:

failed to employ or contract with one or more licensed wastewater treatment facility operators holding the appropriate level of license or a wastewater system operations company holding a valid registration and employing licensed wastewater treatment facility operators holding the appropriate level of license for the Facility, in violation of TEX. WATER CODE § 26.0301(a), 30 TEX. ADMIN. CODE §§ 30.350(d) and 305.125(i), and Texas Pollutant Discharge Elimination System ("TPDES") Permit No. WQ0014061001, Other Requirements No. 1, as documented during an investigation conducted on May 14, 2015. Specifically, an operator with a Category C wastewater license operated the Facility from November 19, 2014 to November 23, 2014; December 14, 2014 to December 16, 2014; December 24, 2014 to December 27, 2014; and February 11, 2015 to February 13, 2015.

- 2. Failed to prevent an unauthorized discharge of sewage into or adjacent to water in the state, in violation of TEX. WATER CODE § 26.121(a)(1), 30 TEX. ADMIN. CODE § 305.125(a) and (5), and TPDES Permit No. WQ0014061001, Permit Conditions No. 2.g and Operational Requirements No. 1, as documented during an investigation conducted on May 14, 2015. Specifically, on February 9, 2015, 500 gallons of wastewater discharged from the influent lift station located at the Facility because of an electrical component failure in the control panel.

III. DENIALS

The Respondent generally denies each allegation in Section II ("Allegations").

IV. ORDERING PROVISIONS

- 1. It is, therefore, ordered by the TCEQ that the Respondent pay an administrative penalty as set forth in Section I, Paragraph 6 above. The payment of this administrative penalty and the Respondent's compliance with all the terms and conditions set forth in this Agreed Order resolve only the allegations in Section II. The Commission shall not be constrained in any manner from requiring corrective action or penalties for violations which are not raised here. Administrative penalty payments shall be made payable to "TCEQ" and shall be sent with the notation "Re: Aqua Development, Inc., Docket No. 2015-1225-MWD-E" to:

Financial Administration Division, Revenue Operations Section
Attention: Cashier's Office, MC 214
Texas Commission on Environmental Quality
P.O. Box 13088
Austin, Texas 78711-3088

3. The provisions of this Agreed Order shall apply to and be binding upon the Respondent. The Respondent is ordered to give notice of the Agreed Order to personnel who maintain day-to-day control over the Facility operations referenced in this Agreed Order.
4. This Agreed Order, issued by the Commission, shall not be admissible against the Respondent in a civil proceeding, unless the proceeding is brought by the OAG to: (1) enforce the terms of this Agreed Order; or (2) pursue violations of a statute within the Commission's jurisdiction, or of a rule adopted or an order or permit issued by the Commission under such a statute.
4. This Agreed Order may be executed in separate and multiple counterparts, which together shall constitute a single instrument. Any page of this Agreed Order may be copied, scanned, digitized, converted to electronic portable document format ("pdf"), or otherwise reproduced and may be transmitted by digital or electronic transmission, including but not limited to facsimile transmission and electronic mail. Any signature affixed to this Agreed Order shall constitute an original signature for all purposes and may be used, filed, substituted, or issued for any purpose for which an original signature could be used. The term "signature" shall include manual signatures and true and accurate reproductions of manual signatures created, executed, endorsed, adopted, or authorized by the person or persons to whom the signatures are attributable. Signatures may be copied or reproduced digitally, electronically, by photocopying, engraving, imprinting, lithographing, electronic mail, facsimile transmission, stamping, or any other means or process which the Executive Director deems acceptable. In this paragraph exclusively, the terms "electronic transmission", "owner", "person", "writing" and "written" shall have the meanings assigned to them under TEX. BUS. ORG. CODE § 1.002.
5. The effective date of this Order is the date it is signed by the Commission. A copy of this fully executed Order shall be provided to each of the parties.

SIGNATURE PAGE

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

For the Commission

Date



For the Executive Director

5/24/16

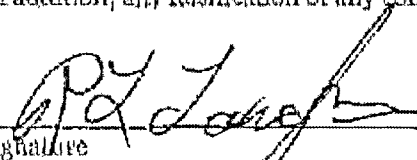
Date

I, the undersigned, have read and understand the attached Agreed Order. I am authorized to agree to the attached Agreed Order on behalf of the entity indicated below my signature, and I do agree to the terms and conditions specified therein. I further acknowledge that the TCEQ, in accepting payment for the penalty amount, is materially relying on such representation.

I also understand that failure to comply with the Ordering Provisions, if any, in this order and/or failure to timely pay the penalty amount, may result in:

- A negative impact on compliance history;
- Greater scrutiny of any permit applications submitted;
- Referral of this case to the Attorney General's Office for contempt, injunctive relief, additional penalties, and/or attorney fees, or to a collection agency;
- Increased penalties in any future enforcement actions;
- Automatic referral to the Attorney General's Office of any future enforcement actions; and
- TCEQ seeking other relief as authorized by law.

In addition, any falsification of any compliance documents may result in criminal prosecution.



Signature

1/4/16

Date

ROBERT LAUSHMAN

Name (Printed or typed)
Authorized Representative of
Aqua Development, Inc.

PRESIDENT

Title

Instructions: Send the original, signed Agreed Order with penalty payment to the Financial Administration Division, Revenue Operations Section at the address in Section IV, Paragraph 1 of this Agreed Order.

BRUNNEN

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Neumann, *Commissioner*
Richard A. Nyds, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 14, 2016

Mr. Robert Laughman, President
Aqua Development, Inc.
2211 Louetta Road
Spring, Texas 77388

Re: Notice of Compliance with Commission Order
Aqua Development, Inc.; RNT02343035; TPDES Permit No. WQ0014061001
Docket No. 2015-1225-MWD-E; Enforcement Case No. 51092

Dear Mr. Laughman:

This letter is to inform you that a review of Texas Commission on Environmental Quality records concerning the above-referenced enforcement matter indicates that Aqua Development, Inc. has fulfilled the requirements of the Commission Order ("Order") effective on May 24, 2016. Specifically, Aqua Development, Inc. has paid the administrative penalty assessed in the Order. Based upon this, we conclude that your response has been satisfactory and no further action is necessary at this time with respect to this enforcement matter. The Order will remain on the compliance history for this regulated entity for five years from the effective date of the Order.

We appreciate your cooperation, and if we can be of any further assistance, please contact Mr. Christopher Bost of my staff at (512) 239-4575.

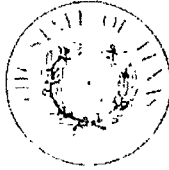
Sincerely,

Sandy Van Cleave, Manager
Enforcement Division

cc: Mr. Abel Bautista, Wastewater Compliance Coordinator, Aqua Development, Inc., 2211 Louetta Road, Spring, Texas 77388
Mr. Scot W. Foltz, Environmental Compliance Manager, Aqua Utilities, 1106 Clayton Lane, Suite 400W, Austin, Texas 78723

COPY

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 10, 2017

RECEIVED

14A5

Mr. Robert L. Laughman, President
Aqua Development, Inc.
2211 Louetta Road
Spring, Texas, 77388

TX ADMIN-AUSTIN

Re: Notice of Compliance with Notice of Violation (NOV) dated August 31, 2016:
Briar Creek Wastewater Treatment Facility
Located approximately 2.0 miles east of the intersection of Farm-to-Market Road 973
and Blake Manor Road in Travis County, Texas
RN102343035, TCEQ Additional ID: WQ0014061001, Investigation No. 1356550

Dear Laughman:

This letter is to inform you that the Texas Commission on Environmental Quality (TCEQ) Austin Regional Office has received adequate compliance documentation on September 30, 2016 and October 7, 2016 to resolve the alleged violation documented during the investigation of the above-referenced regulated entity conducted on August 3, 2016. Based on the information submitted, no further action is required concerning this investigation.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions, please feel free to contact Mr. Christopher Bost at the Austin Regional Office at (512) 239-7021.

Sincerely,

A handwritten signature in black ink, appearing to read "Shawn Stewart".

Shawn Stewart
Water Section Manager
Austin Regional Office

SS/CB

cc: Mr. Mike Merka, Field Supervisor, Aqua Development, Inc., 3209 Hillbilly Lane, Austin, Texas, 78746-1707
Mr. Scot W. Foltz, Environmental Compliance Manager, Aqua Development, Inc., 1106 Clayton Lane, Suite 400W, Austin, Texas 78723
Mr. David Ripley, Operator, Aqua Development, Inc., 3209 Hillbilly Lane, Austin, Texas, 78746-1707
Mr. Abel Bautista, Wastewater Compliance Coordinator, Aqua Development, Inc., 2211 Louetta Road, Spring, Texas, 77388

COPY

mike

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 31, 2016

RECEIVED

**CERTIFIED MAIL {Certified #91 7199 9991 7033 2858 2066}
RETURN RECEIPT REQUESTED**

TX ADMIN-AUSTIN

Mr. Robert L. Laughman, President
Aqua Development, Inc.
2211 Louetta Road
Spring, Texas, 77388

Re: Notice of Violation for Compliance Evaluation Investigation at:
Briar Creek Wastewater Treatment Facility
Located approximately 2.0 miles east of the intersection of Farm-to-Market Road 973
and Blake Manor Road in Travis County
Regulated Entity No.: RN102343035, TCEQ ID No.: WQ0014061001
EPA ID No.: TX0117315, Investigation No. 1356550

Dear Mr. Laughman:

On August 3, 2016, Mr. Christopher Bost and Mr. Michael Daniels of the Texas Commission on Environmental Quality (TCEQ) Austin Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for wastewater treatment. Enclosed is a summary which lists the investigation findings. During the investigation, a concern was noted which was an alleged noncompliance that has been resolved as a resolved violation based on subsequent corrective action. In addition, a certain outstanding alleged violation was identified for which compliance documentation is required. Please submit to this office by September 30, 2016 a written description of corrective action taken and the required documentation demonstrating that compliance has been achieved for the outstanding alleged violation. Also, several Additional Issues were identified. Self-reported effluent violations may be subject to enforcement, including penalties, upon review by the Enforcement Division.

In the listing of the alleged violations, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules (GI 032)* are located on our agency website at <http://www.tceq.state.tx.us> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Austin Region Office at 512-339-2929 or the Central Office Publications Ordering Team at 512-239-0028.

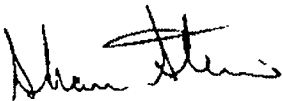
COPY

Mr. Robert L. Laughman
Page 2
August 31, 2016

The TCEQ appreciates your assistance in this matter. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements. We anticipate that you will resolve the alleged violation as required in order to protect the State's environment. If you have additional information that we are unaware of, you have the opportunity to contest the violations documented in this notice. Should you choose to do so, you must notify the Austin Region Office within 10 days from the date of this letter. At that time, Ms. Carolyn Runyon will schedule a violation review meeting to be conducted within 21 days from the date of this letter. However, please be advised that if you decide to participate in the violation review process, the TCEQ may still require you to adhere to the compliance schedule included in the enclosed Summary of Investigation Findings until an official decision is made regarding the status of any or all of the contested violations.

If you or members of your staff have any questions, please feel free to contact Mr. Christopher Bost in the Austin Region Office at (512) 239-7021.

Sincerely,



Shawn Stewart, Team Leader
Austin Region Office
Texas Commission on Environmental Quality

SS/CB

cc: Mr. Mike Merka, Field Supervisor, Aqua Development, Inc., 3209 Hillbilly Lane, Austin, Texas, 78746-1707 (Enclose a copy of the Summary of Investigation Findings)
Mr. Scot W. Foltz, Environmental Compliance Manager, Aqua Development, Inc., 1106 Clayton Lane, Suite 400W, Austin, Texas 78723 (Enclose a copy of the Summary of Investigation Findings)
Mr. David Ripley, Operator, Aqua Development, Inc., 3209 Hillbilly Lane, Austin, Texas, 78746-1707 (Enclose a copy of the Summary of Investigation Findings)
Mr. Abel Bautista, Wastewater Compliance Coordinator, Aqua Development, Inc., 2211 Louetta Road, Spring, Texas, 77388 (Enclose a copy of the Summary of Investigation Findings)

Enclosure: Summary of Investigation Findings

Summary of Investigation Findings

BRIAR CREEK WWTP	Investigation # 1356550
, TRAVIS COUNTY,	Investigation Date: 08/03/2016
Additional ID(s): TX0117315 WQ0014061001	

**OUTSTANDING ALLEGED VIOLATION(S)
ASSOCIATED TO A NOTICE OF VIOLATION**

Track No: 616078 Compliance Due Date: 09/30/2016

30 TAC Chapter 305.125(1)
30 TAC Chapter 305.125(5)
30 TAC Chapter 317.1(a)

PERMIT WQ0014061001, Operational Requirements No. 1
Operational Requirements No. 1

Alleged Violation:

Investigation: 1356550

Comment Date: 08/24/2016

Failed to ensure that the Facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. Specifically, the third lift station pump for the on-site lift station was out for repairs at the time of the investigation. According to the operator records, the lift station pump had been out for repairs since June 2, 2016.

Recommended Corrective Action: The Facility and all of its systems of collection, treatment, and disposal shall be properly operated and maintained.

On August 23, 2016, an e-mail was received from Mr. Mike Merka, Field Supervisor with Aqua Development, Inc., stating that the third lift station pump has been replaced and that a copy of the invoice for the pump replacement would be sent once it becomes available.

Submit a copy of the invoice reflecting that the third lift station pump has been replaced.

**ALLEGED VIOLATION(S) NOTED AND RESOLVED
ASSOCIATED TO A NOTICE OF VIOLATION**

Track No: 616079

2D TWC Chapter 26.121(a)(1)
30 TAC Chapter 305.125(1)

PERMIT WQ0014061001, Permit Conditions No. 2.g
Permit Conditions No. 2.g

Alleged Violation:

Investigation: 1356550

Comment Date: 08/24/2016

Failed to prevent the unauthorized discharge of wastewater into or adjacent to water in the state. Specifically, on June 3, 2015, the No. 1 discharge check valve at the on-site lift station located at the wastewater treatment facility ("WWTF") hung open due to trash in the valve. The raw wastewater flow circulated back into the wet well when the other pump ran due to the open check valve, causing an overflow from the wet well. Approximately 500 gallons of wastewater spilled and the spill was contained within the confines of the WWTF.

Recommended Corrective Action: There shall be no unauthorized discharge of wastewater.

Submit documentation demonstrating the steps taken to prevent the recurrence of unauthorized discharges of wastewater from the on-site lift station. Submit documentation demonstrating that the affected areas have been properly remediated.

Resolution: According to the non-compliance notification form submitted on June 4, 2015, the

Were the samples collected by the region compliant with the permit limits?

During the investigation, an ammonia-nitrogen grab sample was collected and analyzed. The reported grab sample concentration was 10.5 mg/L. The permitted concentration limit for ammonia-nitrogen single grab samples is 15 mg/L. While the collected ammonia-nitrogen grab sample was compliant with the permitted limit, the grab sample concentration was elevated.

Additionally, during the TCEQ investigator's review of the self-reported effluent data from the wastewater treatment facility ("WWTF"), it was noted that the reported ammonia-nitrogen daily average concentration value of 2.15 mg/L for December 2015 exceeded the permitted effluent limit of 2.0 mg/L.

Was the permittee compliant with the self-monitored effluent limits?

It is recommended that Aqua Development, Inc. take measures at the WWTF to ensure that compliance with all permitted effluent limits, including ammonia-nitrogen, is maintained. There have been two self-reported effluent violations reported in the last 12 months. Specifically, the reported E. coli single grab concentration value of 2,420 CFU/100 mL for August 2015 exceeded the permitted limit of 399 CFU/100 mL and the reported ammonia-nitrogen daily average concentration value of 2.15 mg/L for December 2015 exceeded the permitted effluent limit of 2.0 mg/L.

To be consistent with current effluent violation handling guidelines, these exceedences were addressed as an Additional Issue in this report. However, these exceedences may be subject to formal enforcement action, including penalties, upon review by the Enforcement Division. Compliance with permitted effluent limits must be maintained.

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 29, 2015

CERTIFIED MAIL 91 7199 9991 7033 2858 9119
RETURN RECEIPT REQUESTED

RECEIVED

JUN 03 2015

Mr. Scot Foltz, Environmental Compliance Manager
Aqua Texas, Inc.
1106 Clayton Ln., Ste 400W
Austin, TX 78723

TX ADMIN-AUSTIN

Re: Notice of Violation for Compliance Evaluation Investigation at:
Goforth Wastewater Treatment Plant, 5271 Goforth Rd., Kyle, Hays County, Texas
Regulated Entity No.: RN101513729, TCEQ ID No.: WQ0013293001, EPA ID No.:
TX0100684

Dear Mr. Foltz;

On March 31 and April 01, 2015, Ms. Patricia Phillips of the Texas Commission on Environmental Quality (TCEQ Austin Region Office) conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for wastewater treatment. Enclosed is a summary which lists the investigation findings. In addition, an outstanding alleged violation was identified for which compliance documentation is required. Please submit to this office by June 29, 2015 a written description of corrective action taken and the required documentation demonstrating that compliance has been achieved for the outstanding alleged violation.

In the listing of the alleged violation, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <http://www.tceq.state.tx.us> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Austin Region Office at (512) 339-2929 or the Central Office Publications Ordering Team at 512-239-0028. Copies of applicable federal regulations may be obtained by calling Environmental Protection Agency's Publications at 800-490-9198.

The TCEQ appreciates your assistance in this matter. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements. Self-reported violations may be subject to enforcement, including penalties, upon review by the Enforcement Division. We anticipate that you will resolve the alleged violation as required in order to protect the State's environment. If you have additional information that we are unaware of, you have the opportunity to contest the violation documented in this notice. Should you choose to do so, you must notify the Austin Region Office within 10 days from the date of this letter. At that time, Ms. Carolyn Runyon,

TCEQ Region 11 • P.O. Box 13087 • Austin, Texas 78711-3087 • 512-339-2929 • Fax 512-339-3795

Austin Headquarters: 512-239-1000 • tceq.texas.gov • How is our customer service? tceq.texas.gov/customerurvey

printed on recycled paper using vegetable-based ink

Mr. Scot Foltz
Page 2
May 29, 2015

Water Section Manager, will schedule a violation review meeting to be conducted within 21 days from the date of this letter. However, please be advised that if you decide to participate in the violation review process, the TCEQ may still require you to adhere to the compliance schedule included in the enclosed Summary of Investigation Findings until an official decision is made regarding the status of any or all of the contested violations.

If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Patricia Phillips in the Austin Region Office at (512) 339-2929.

Sincerely,



Shawn Stewart
Water Section Work Leader
Austin Region Office

SS/pjp

cc: Mr. Abel Bautista, Aqua Texas, Inc., 2211 Louetta Rd., Spring, TX 77388 (Include Enclosure)
Mr. Robert "Brian" Robinson, Field Supervisor, Wimberley Area, Aqua Texas, Inc., 2611 FM 2325, Wimberley, TX 78676 (Include Enclosure)

Enclosure: Summary of Investigation Findings

Summary of Investigation Findings

GOFORTH WWTP 5271 GOFORTH RD KYLE, HAYS COUNTY, TX 78640	Investigation # 1245661 Investigation Date: 03/31/2015
Additional ID(s): WQ0013293001 TX0100684	

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 571234 Compliance Due Date: 06/29/2015

30 TAC Chapter 305.125(1)

PERMIT WQ0013293001, Effluent Limit

pg. 2 of permit

Alleged Violation:

Investigation: 1245661

Comment Date: 05/22/2015

Failed to maintain compliance with the permitted effluent limit for E. Coli. Specifically, the grab sample collected during the investigation was not compliant with the single grab limit of 126 MPN/100 mL for E. Coli. The lab analysis result for the E. Coli sample was 727 MPN/100 mL. The permittee was notified by email of the exceedance on 04/16/2015. The lab analysis and emailed notification of the exceedance are attached to this report.

Recommended Corrective Action: Compliance with the permitted effluent limits must be maintained. Submit documentation describing the action taken to prevent the recurrence of E. Coli violations by the compliance due date.

ADDITIONAL ISSUES

Description

Is the regulated entity compliant with the self-monitored effluent limitations?

Additional Comments

Failed to maintain the effluent within the permitted limit for E. coli. On 12/17/2014, the E. coli was reported as 1,011 MPN/100 mL. The permitted limit for a single grab is 394 MPN/100 mL. Proper notification was received by TCEQ for this exceedance. Self-reported effluent violations may be subject to enforcement, including penalties, upon review by the Enforcement Division.

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



J. J. 11

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Protecting Texas by Reducing and Preventing Pollution **RECEIVED**

December 13, 2016

TX ADMIN-AUSTIN

FIRST CLASS MAIL

Robert Laughman, President
Aqua Utilities, Inc.
1106 Clayton Lane, Suite 400W
Austin, Texas 78723-2476

RE: Aqua Utilities, Inc.
TCEQ Docket No. 2015-1474-MWD-E; Permit No. WQ0013293001
Agreed Order Assessing Administrative Penalties and Requiring Certain Actions

Enclosed is a copy of an order issued by the Commission.

Questions regarding the order should be directed to the Texas Commission on Environmental Quality's Enforcement Division at (512) 239-2545 or the Litigation Division at (512) 239-3400. If there are questions pertaining to the mailing of the order, then please contact Leslie Gann of the Office of the Chief Clerk at (512) 239-3319.

Sincerely,

A handwritten signature in cursive script that reads "Bridget C. Bohac".

Bridget C. Bohac
Chief Clerk

BCB/lg

Enclosure

cc: Farhaud Abbaszadeh, Enforcement Coordinator, TCEQ Enforcement Division

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY DEC 13 2016



OF THE COMMISSION GIVEN UNDER MY HAND AND THE
SEAL OF OFFICE ON
Bridget C. Bohac
BRIDGET C. BOHAC, CHIEF CLERK
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

IN THE MATTER OF AN
ENFORCEMENT ACTION
CONCERNING
AQUA UTILITIES, INC.
RN101513729

§ BEFORE THE
§
§ TEXAS COMMISSION ON
§
§ ENVIRONMENTAL QUALITY

AGREED ORDER
DOCKET NO. 2015-1474-MWD-E

At its DEC 07 2016 agenda, the Texas Commission on Environmental Quality ("the Commission" or "TCEQ") considered this agreement of the parties, resolving an enforcement action regarding Aqua Utilities, Inc. ("Respondent") under the authority of TEX. WATER CODE chs. 7 and 26. The Executive Director of the TCEQ, through the Enforcement Division, and the Respondent presented this agreement to the Commission.

The Respondent understands that they have certain procedural rights at certain points in the enforcement process, including, but not limited to, the right to formal notice of violations, notice of an evidentiary hearing, the right to an evidentiary hearing, and a right to appeal. By entering into this Agreed Order, the Respondent agrees to waive all notice and procedural rights.

It is further understood and agreed that this Order represents the complete and fully-integrated settlement of the parties. The provisions of this Agreed Order are deemed severable and, if a court of competent jurisdiction or other appropriate authority deems any provision of this Agreed Order unenforceable, the remaining provisions shall be valid and enforceable. The duties and responsibilities imposed by this Agreed Order are binding upon the Respondent.

The Commission makes the following Findings of Fact and Conclusions of Law:

I. FINDINGS OF FACT

1. The Respondent owns a wastewater treatment facility located approximately four miles southeast of the intersection of Interstate Highway 35 and Farm-to-Market Road 2001

and five miles north of the intersection of State Highway 21 and Farm-to-Market Road 272 in Hays County, Texas (the "Facility").

2. The Respondent has discharged municipal waste into or adjacent to any water in the state under TEX. WATER CODE ch. 26.
3. During a record review conducted on August 13, 2015, TCEQ staff documented the following from self-reported discharge monitoring reports ("DMRs"):

Effluent Violation Table						
Monitoring Period	Chlorine Residual Maximum Limit = 4.0 mg/L	Total Suspended Solids Daily Avg. Concentration Limit = 15 mg/L	<i>Escherichia coli</i> Single Grab Concentration Limit = 394 CFU/100 mL	Ammonia Nitrogen Daily Avg. Concentration Limit = 3 mg/L	Ammonia Nitrogen Daily Avg. Loading Limit = 1.1 lbs/day	Flow Daily Avg. Limit = 0.0424 MGD
December 2014	c	c	1011	c	c	c
March 2015	c	c	c	5.11	22.1	c
April 2015	4.3	19.5	1040	4.65	16.6	c
May 2015	c	c	1986	c	c	0.054

CFU/100 mL = colony forming units per 100 milliliters
 Avg. = average
 mg/L = milligrams per liter

MGD = million gallons per day
 lbs/day = pounds per day
 c = compliant

4. The Respondent received notice of the violations on September 14, 2015.

II. CONCLUSIONS OF LAW

1. The Respondent is subject to the jurisdiction of the TCEQ pursuant to TEX. WATER CODE chs. 7 and 26 and the rules of the Commission.
2. As evidenced by Findings of Fact No. 3, the Respondent failed to comply with permitted effluent limits, in violation of TEX. WATER CODE § 26.121(a)(1), 30 TEX. ADMIN. CODE § 305.125(1), and Texas Pollutant Discharge Elimination System ("TPDES") Permit No. WQ0013293001, Effluent Limitations and Monitoring Requirements Nos. 1 and 2.
3. Pursuant to TEX. WATER CODE § 7.051, the Commission has the authority to assess an administrative penalty against the Respondent for violations of the Texas Water Code and the Texas Health and Safety Code within the Commission's jurisdiction; for violations of rules adopted under such statutes; or for violations of orders or permits issued under such statutes.

4. An administrative penalty in the amount of Ten Thousand Three Hundred Twelve Dollars (\$10,312) is justified by the facts recited in this Agreed Order, and considered in light of the factors set forth in TEX. WATER CODE § 7.053. The Respondent has paid the Ten Thousand Three Hundred Twelve Dollar (\$10,312) administrative penalty.

III. ORDERING PROVISIONS

NOW, THEREFORE, THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY ORDERS that:

1. The Respondent is assessed an administrative penalty in the amount of Ten Thousand Three Hundred Twelve Dollars (\$10,312) as set forth in Section II, Paragraph 4 above, for violations of TCEQ rules and state statutes. The payment of this administrative penalty and the Respondent's compliance with all the terms and conditions set forth in this Agreed Order completely resolve the violations set forth by this Agreed Order in this action. However, the Commission shall not be constrained in any manner from requiring corrective actions or penalties for other violations that are not raised here. Administrative penalty payments shall be made payable to "TCEQ" and shall be sent with the notation "Re: Aqua Utilities, Inc., Docket No. 2015-1474-MWD-E" to:

Financial Administration Division, Revenue Operations Section
Attention: Cashier's Office, MC 214
Texas Commission on Environmental Quality
P.O. Box 13088
Austin, Texas 78711-3088

2. It is further ordered that, within 90 days after the effective date of this Agreed Order, the Respondent shall submit written certification of compliance with the permitted effluent limitations of TPDES Permit No. WQ0013293001, including specific corrective actions that were implemented at the Facility to achieve compliance and copies of the most current self-reported DMRs, demonstrating at least three consecutive months of compliance with all permitted effluent limitations. The certification shall include detailed supporting documentation including photographs, receipts, and/or other records to demonstrate compliance with the permitted effluent limitations. The certification shall be notarized by a State of Texas Notary Public and include the following certification language:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

The certification shall be submitted to:

Order Compliance Team
Enforcement Division, MC 149A
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

with a copy to:

Water Section Manager
Austin Regional Office
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

3. The provisions of this Agreed Order shall apply to and be binding upon the Respondent. The Respondent is ordered to give notice of the Agreed Order to personnel who maintain day-to-day control over the Facility operations referenced in this Agreed Order.
4. If the Respondent fails to comply with any of the Ordering Provisions in this Agreed Order within the prescribed schedules, and that failure is caused solely by an act of God, war, strike, riot, or other catastrophe, the Respondent's failure to comply is not a violation of this Agreed Order. The Respondent shall have the burden of establishing to the Executive Director's satisfaction that such an event has occurred. The Respondent shall notify the Executive Director within seven days after the Respondent becomes aware of a delaying event and shall take all reasonable measures to mitigate and minimize any delay.
5. The Executive Director may grant an extension of any deadline in this Agreed Order or in any plan, report, or other document submitted pursuant to this Agreed Order, upon a written and substantiated showing of good cause. All requests for extensions by the Respondent shall be made in writing to the Executive Director. Extensions are not effective until the Respondent receives written approval from the Executive Director. The determination of what constitutes good cause rests solely with the Executive Director.
6. The Executive Director may refer this matter to the Office of the Attorney General of the State of Texas ("OAG") for further enforcement proceedings without notice to the Respondent if the Executive Director determines that the Respondent has not complied with one or more of the terms or conditions in this Agreed Order.
7. This Agreed Order shall terminate five years from its effective date or upon compliance with all the terms and conditions set forth in this Agreed Order, whichever is later.

8. This Agreed Order, issued by the Commission, shall not be admissible against the Respondent in a civil proceeding, unless the proceeding is brought by the OAG to: (1) enforce the terms of this Agreed Order; or (2) pursue violations of a statute within the Commission's jurisdiction, or of a rule adopted or an order or permit issued by the Commission under such a statute.
9. This Agreed Order may be executed in separate and multiple counterparts, which together shall constitute a single instrument. Any page of this Agreed Order may be copied, scanned, digitized, converted to electronic portable document format ("pdf"), or otherwise reproduced and may be transmitted by digital or electronic transmission, including but not limited to facsimile transmission and electronic mail. Any signature affixed to this Agreed Order shall constitute an original signature for all purposes and may be used, filed, substituted, or issued for any purpose for which an original signature could be used. The term "signature" shall include manual signatures and true and accurate reproductions of manual signatures created, executed, endorsed, adopted, or authorized by the person or persons to whom the signatures are attributable. Signatures may be copied or reproduced digitally, electronically, by photocopying, engraving, imprinting, lithographing, electronic mail, facsimile transmission, stamping, or any other means or process which the Executive Director deems acceptable. In this paragraph exclusively, the terms "electronic transmission", "owner", "person", "writing", and "written" shall have the meanings assigned to them under TEX. BUS. ORG. CODE § 1.002.
10. The effective date of this Order is the date it is signed by the Commission. A copy of this fully executed Order shall be provided to each of the parties.

SIGNATURE PAGE

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Bryan W. Shaw 12-9-16
For the Commission Date
Tracy Miller for Ramiro Garcia Jr 10-14-16
For the Executive Director Date

I, the undersigned, have read and understand the attached Agreed Order in the matter of Aqua Utilities, Inc. I am authorized to agree to the attached Agreed Order on behalf of Aqua Utilities, Inc., and do agree to the specified terms and conditions. I further acknowledge that the TCEQ, in accepting payment for the penalty amount, is materially relying on such representation.

I understand that by entering into this Agreed Order, Aqua Utilities, Inc. waives certain procedural rights, including, but not limited to, the right to formal notice of violations addressed by this Agreed Order, notice of an evidentiary hearing, the right to an evidentiary hearing, and the right to appeal. I agree to the terms of the Agreed Order in lieu of an evidentiary hearing. This Agreed Order constitutes full and final adjudication by the Commission of the violations set forth in this Agreed Order.

I also understand that failure to comply with the Ordering Provisions, if any, in this order and/or failure to timely pay the penalty amount, may result in:

- A negative impact on compliance history;
- Greater scrutiny of any permit applications submitted;
- Referral of this case to the Attorney General's Office for contempt, injunctive relief, additional penalties, and/or attorney fees, or to a collection agency;
- Increased penalties in any future enforcement actions;
- Automatic referral to the Attorney General's Office of any future enforcement actions; and
- TCEQ seeking other relief as authorized by law.

In addition, any falsification of any compliance documents may result in criminal prosecution.

Robert F. Laughman 12/8/15
Signature Date

Robert F. Laughman President
Name (Printed or Typed) Title
Authorized Representative of
Aqua Utilities, Inc.

Instructions: Send the original, signed Agreed Order with penalty payment to the Financial Administration Division, Revenue Operations Section at the address in Section III, Paragraph 1 of this Agreed Order.

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 10, 2015

RECEIVED

DEC 14 2015

Mr. Scot Foltz, Environmental Compliance Manager
Aqua Texas, Inc.
1106 Clayton Ln., Ste 400W
Austin, TX 78723

TX ADMIN-AUSTIN

Re: Notice of Compliance with Notice of Violation (NOV) dated May 29, 2015
Goforth Wastewater Treatment Plant,
5271 Goforth Rd., Kyle, Hays County
Regulated Entity No.: RN101513729, TCEQ Additional ID No.: WQ0013293001,
Investigation No. 1245661

Dear Mr. Foltz:

This letter is to inform you that the Texas Commission on Environmental Quality (TCEQ) Austin Regional Office has received adequate compliance documentation on November 19, 2015 to resolve the alleged violation documented during the investigation of the above-referenced regulated entity conducted on March 31 and April 01, 2015. Based on the information submitted, no further action is required concerning this investigation.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions, please feel free to contact Ms. Patricia Phillips in the Austin Region Office at (512) 339-2929.

Sincerely,

A handwritten signature in black ink, appearing to read "Shawn Stewart".

Shawn Stewart
Water Section Work Leader
Austin Region Office

SS/pjp

cc: Mr. Abel Bautista, Aqua Texas, Inc., 2211 Louetta Rd., Spring, TX 77388 (Include Enclosure)
Mr. Robert "Brian" Robinson, Field Supervisor, Wimberley Area, Aqua Texas, Inc., 2611 FM 2325, Wimberley, TX 78676 (Include Enclosure)

Enclosure: Summary of Investigation Findings

Summary of Investigation Findings

GOFORTH WWTP

5271 GOFORTH RD

KYLE, HAYS COUNTY, TX 78640

Investigation #

1295845

Investigation Date: 12/04/2015

Additional ID(s): WQ0013293001

TX0100684

ALLEGED VIOLATION(S) NOTED AND RESOLVED

Track No: 571234

30 TAC Chapter 305.125(1)

PERMIT WQ0013293001, Effluent Limit

pg. 2 of permit

Alleged Violation:

Investigation: 1245661

Comment Date: 05/22/2015

Failed to maintain compliance with the permitted effluent limit for E. Coli. Specifically, the grab sample collected during the investigation was not compliant with the single grab limit of 126 MPN/100 mL for E. Coli. The lab analysis result for the E. Coli sample was 727 MPN/100 mL. The permittee was notified by email of the exceedance on 04/16/2015. The lab analysis and emailed notification of the exceedance are attached to this report.

Investigation: 1275174

Comment Date: 10/27/2015

A follow-up investigation was conducted on 08/27/2015 to determine the compliance status of this alleged violation. On 07/02/2015, TCEQ Region 11 received a response from the permit holder which indicated that a vertical pipe would be installed with a line inside the pipe that dispenses chlorine into the water as it flows into the chlorine contact chamber from the clarifier to maximize the contact with the chlorine. However, there has been no indication of whether this action was done or not. Since no documentation has been received to demonstrate that compliance has been achieved, the RE has been issued a Compliance Documentation Deficiency letter. Please submit to the Region 11 office a written description of corrective action taken and any documentation supporting such actions by 11/13/2015.

Investigation: 1295845

Comment Date: 12/04/2015

A follow-up investigation was conducted on 12/04/2015 to determine the compliance status of this alleged violation.

Recommended Corrective Action: Compliance with the permitted effluent limits must be maintained. Submit documentation describing the action taken to prevent the recurrence of E. Coli violations by the compliance due date.

Resolution: The documentation submitted on 11/19/2015 stated that a vertical pipe has been installed with a line inside the pipe that dispenses chlorine into the water as it flows into the chlorine contact chamber from the clarifier to maximize the contact with the chlorine. The RE provided a photograph of the installed pipe and an invoice showing purchase and installation charges (see Attachment). The actions are sufficient to resolve the violation.

Bouman

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

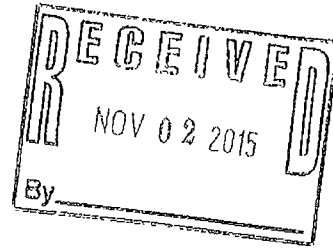


TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 29, 2015

**CERTIFIED MAIL 91 7199 9991 7033 2858 9423
RETURN RECEIPT REQUESTED**



Mr. Scot Foltz, Environmental Compliance Manager
Aqua Texas, Inc.
1106 Clayton Ln., Ste 400W
Austin, TX 78723

Re: Additional Compliance Documentation Needed for:
Notice of Violation for Compliance Evaluation Investigation at:
Goforth Wastewater Treatment Plant, 5271 Goforth Rd., Kyle, Hays County, Texas
Regulated Entity No.: RN101513729, TCEQ ID No.: WQ0013293001, EPA ID No.:
TX0100684

Dear Mr. Foltz;

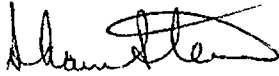
The Texas Commission on Environmental Quality (TCEQ) Austin Region Office has received the compliance documentation that you submitted on July 02, 2015, for the alleged violations noted during the investigation of the above-referenced facility conducted on March 31, 2015. The compliance documentation contained in your response indicated that a vertical pipe would be installed with a line inside the pipe that dispenses chlorine into the water as it flows into the chlorine contact chamber from the clarifier to maximize the contact with the chlorine. There was no indication that this action had been taken or that it resolved the noncompliance issue. Therefore, information is still needed for the alleged violation listed in the enclosed summary. Please submit to our office by November 13, 2015, a written description of corrective action taken and the required compliance documentation demonstrating that the alleged violation has been resolved.

The Texas Commission on Environmental Quality appreciates your assistance in this matter and your compliance efforts to protect the State's environment. We look forward to receiving your response for the remaining alleged violation. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements.

Mr. Scot Foltz
Page 2
October 29, 2015

If you or members of your staff have any questions, please feel free to contact Ms. Patricia Phillips in the Austin Region Office at (512) 339-2929.

Sincerely,



Shawn Stewart
Water Section Work Leader
Austin Region Office

SS/pjp

cc: Mr. Abel Bautista, Aqua Texas, Inc., 2211 Louetta Rd., Spring, TX 77388 (Include Enclosure)
Mr. Robert "Brian" Robinson, Field Supervisor, Wimberley Area, Aqua Texas, Inc., 2611 FM 2325, Wimberley, TX 78676 (Include Enclosure)

Enclosure: Summary of Investigation Findings

Summary of Investigation Findings

GOFORTH WWTP 5271 GOFORTH RD KYLE, HAYS COUNTY, TX 78640	Investigation # 1275174 Investigation Date: 10/27/2015
Additional ID(s): WQ0013293001 TX0100684	

OUTSTANDING ALLEGED VIOLATION(S)

Track No: 571234 Compliance Due Date: 11/13/2015

30 TAC Chapter 305.125(1)

PERMIT WQ0013293001, Effluent Limit

pg. 2 of permit

Alleged Violation:

Investigation: 1245661

Comment Date: 05/22/2015

Failed to maintain compliance with the permitted effluent limit for E. Coli. Specifically, the grab sample collected during the investigation was not compliant with the single grab limit of 126 MPN/100 mL for E. Coli. The lab analysis result for the E. Coli sample was 727 MPN/100 mL. The permittee was notified by email of the exceedance on 04/16/2015. The lab analysis and emailed notification of the exceedance are attached to this report.

Investigation: 1275174

Comment Date: 10/27/2015

A follow-up investigation was conducted on 08/27/2015 to determine the compliance status of this alleged violation. On 07/02/2015, TCEQ Region 11 received a response from the permit holder which indicated that a vertical pipe would be installed with a line inside the pipe that dispenses chlorine into the water as it flows into the chlorine contact chamber from the clarifier to maximize the contact with the chlorine. However, there has been no indication of whether this action was done or not. Since no documentation has been received to demonstrate that compliance has been achieved, the RE has been issued a Compliance Documentation Deficiency letter. Please submit to the Region 11 office a written description of corrective action taken and any documentation supporting such actions by 11/13/2015.

Recommended Corrective Action: Compliance with the permitted effluent limits must be maintained. Submit documentation describing the action taken to prevent the recurrence of E. Coli violations by the compliance due date.

Standard WWT P

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niemann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 16, 2016

RECEIVED

DEC 21 2016

Mr. Robert Laughman, President
Aqua Utilities, Inc.
1106 Clayton Lane, Suite 400 W
Austin, Texas 78723

TX ADMIN-AUSTIN

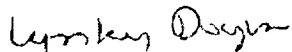
Re: Notice of Compliance with Agreed Order
Aqua Utilities, Inc.; RN102956448
Docket No. 2012-0858-MWD-E; Enforcement Case No. 44025

Dear Mr. Laughman:

This letter is to inform you that a review of Texas Commission on Environmental Quality (TCEQ) records concerning the above-referenced enforcement matter indicates that Aqua Utilities, Inc. has fulfilled the requirements of the Agreed Order effective on March 9, 2013. Specifically, Aqua Utilities, Inc. has fulfilled the technical requirements and has paid the administrative penalty assessed in the Agreed Order. Based upon this, we conclude that your response has been satisfactory and no further action is necessary at this time with respect to this enforcement matter. The Order will remain on the compliance history for this regulated entity for five years from the effective date of the Order.

We appreciate your cooperation, and if we can be of any further assistance, please contact Mr. Michael Tucker at (512) 239-6924.

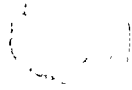
Sincerely,



Lynley Doyen, Manager
Enforcement Division

cc: Mr. Scot Foltz, Environmental Compliance Manager, Aqua Utilities, Inc., 1106 Clayton Lane, Suite 400 W, Austin, Texas 78723

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Joby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 31, 2016

RECEIVED

CERTIFIED MAIL Certified # 91 7199 9991 7033 2764 4222
RETURN RECEIPT REQUESTED

TX ADMIN-AUSTIN

Mr. Scot Foltz, Environmental Compliance Manager
Aqua Utilities
1106 Clayton Lane, Suite 400
Austin, TX 78723

Re: Notice of Enforcement for TCEQ Wastewater Compliance Evaluation Investigation at:
Woodcreek WWTP, S/SE of FM 2325 and Jacob's Well Road, 4 miles north of
Wimberley (Hays County), Texas
TCEQ Permit #WQ0013989001, Investigation #1364693

Dear Mr. Foltz:

On August 22 and September 2, 2016, Ms. Julie White of the Texas Commission on Environmental Quality (TCEQ) Austin Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for wastewater treatment. During this investigation, certain outstanding alleged violations were documented. Enclosed is a summary which lists the investigation findings and recommended corrective actions. Additional recommended corrective actions may be provided by the Enforcement Division.

In the listing of the alleged violations, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <http://www.tceq.state.tx.us> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Austin Region Office at Phone #(512)-339-2929 or the Central Office Publications Ordering Team at 512-239-0028. Copies of applicable federal regulations may be obtained by calling Environmental Protection Agency's Publications at 800-490-9198.

Also, please be advised that the Legislature has granted enforcement powers to the TCEQ to carry out its mission to protect human health and the environment. Due to the apparent seriousness of the alleged violations, formal enforcement action has been initiated, and additional violations may be cited upon further review. We encourage you to immediately begin taking actions to address the outstanding alleged violations.

In responding with prompt corrective action, the administrative penalty to be assessed may be limited.

Mr. Foltz
Page 2
October 31, 2016

The Commission recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. We dedicate considerable resources toward making voluntary compliance achievable. But where compliance has not been met it is our duty to protect the public and the environment by enforcing the state's environmental laws, regulations, and permits.

Also, if you believe the violations documented in this notice have been cited in error, and you have additional information that we are unaware of, you may request a meeting to discuss this enforcement matter. To request a meeting, send a letter describing the additional information to the address shown below.

Manager, Water Section
Enforcement Division, MC 219
Re: Enforcement Meeting Request
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

If you or members of your staff have any questions, please feel free to contact Ms. White in the Austin Region Office at (512) 339-2929.

Sincerely,



Shawn Stewart
Water Section Team Leader
Austin Region Office
Texas Commission on Environmental Quality

SS/jkpw

Attachment: Summary of Investigation Findings

Cc: Mr. Brian Robinson, 2611 FM 2325, Wimberley, TX 78676

Summary of Investigation Findings

WOODCREEK WWTP

Investigation #

1364693

Investigation Date: 08/22/2016

, HAYS COUNTY,

Additional ID(s): WQ0013989001

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 621058 Compliance Due Date: To Be Determined

2D TWC Chapter 26.121(a)(1)

30 TAC Chapter 305.125(1)

30 TAC Chapter 305.125(4)

PERMIT WQ0013989001, Permit Conditions

Page 9, Item 2.g

Alleged Violation:

Investigation: 1364693

Comment Date: 10/26/2016

Failed to prevent the unauthorized discharge of wastewater. Specifically, since the last investigation on January 27, 2015, twelve unauthorized discharges were reported.

- 1/30/2015 Unknown amount from electrical failure at Pro Lane Lift Station
- 2/11/2015 Approximately 1000 gallons from a line break at Ranchview Lift Station
- 3/31/2015 Approximately 3000 gallons from a line break on Dolittle Drive
- 5/03/2015 Approximately 200 gallons from a line break at 10 Woodglen
- 9/04/2015 Approximately 200 gallons from a pump failure at Brookshire Lift Station
- 10/30/2015 Approximately 40,000 from a power outage at Pro Lane Lift Station
- 11/19/2015 Approximately 300 gallons from a line break 300' east of FM2325
- 11/22/2015 Approximately 2000 gallons from a pump failure at Pro Lane Lift Station
- 12/31/2015 Approximately 3000 gallons from a line break at Pro Lane Lift Station
- 1/20/2016 Approximately 16,000 gallons from a line break on Camp Young Judea property
- 2/08/2016 Approximately 1000 gallons from a pump failure at Emergency Lane Lift Station
- 7/15/2016 Approximately 500 gallons from a pump failure at High School Lift Station (Carney Lane & FM2325)

Among the unauthorized discharges cited during the January 27, 2015 investigation, there were four discharges at the High School Lift Station (Carney Lane and FM 2325) and two on Dolittle Drive. During the current investigation, there was one unauthorized discharge at the High School Lift Station and one on Dolittle Drive. The High School Lift Station violations were repeat occurrences at the same location within consecutive investigations within the most recent 5-year period. The Dolittle Drive violations were at the same location and similar root cause within consecutive investigations within the most recent 5-year period.

Recommended Corrective Action: There shall be no unauthorized discharge of wastewater.

ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 621076

30 TAC Chapter 305.125(1)

30 TAC Chapter 317.3(e)(5)

Alleged Violation:

Investigation: 1364693

Comment Date: 10/17/2016

Failed to properly maintain the lift station. The SCADA system did not function during the July 16, 2016 discharge event. The system was still out for repairs at the time of the September 2, 2016 investigation; therefore, a telemetry system was not in operation.

Recommended Corrective Action: Submit documentation indicating that the SCADA system has been repaired.

Resolution: On October 25, 2016, the TCEQ Austin Region received documentation indicating that a new SCADA system was installed at the lift station.

ADDITIONAL ISSUES

Description
Item 3

Additional Comments

During the investigation of the wet well, one of the floats was caught causing the pump to run continuously. Mr. Robinson fixed the line during the investigation. There was a thick layer of foam on the top of the water within the wet well. Mr. Robinson informed the investigator that the wet well has to be pumped once a week due to the foam. The foam causes a crust to form on top of the water causing issues with the floats. Mr. Robinson stated that the source of the foam is being investigated.

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



Patricia

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 23, 2015

RECEIVED

MAR 25 2015

CERTIFIED MAIL 91 7199 9991 7033 2858 9461
RETURN RECEIPT REQUESTED

TX ADMIN-AUSTIN

Mr. Scot Foltz, Environmental Compliance Manager
Aqna Utilities
1106 Clayton Ln., Ste. 400
Austin, TX 78723

Re: Notice of Violation for Compliance Evaluation Investigation at:
Woodcreek Wastewater Treatment Facility, located S/SE of FM 2325 and Jacob's Well
Road, approximately 4 miles N of Wimberley, Hays County
Regulated Entity No. RN102956448, TCEQ ID No. WQ0013989001

Dear Mr. Foltz;

On January 27, 2015, Ms. Patricia Phillips of the Texas Commission on Environmental Quality (TCEQ) Austin Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for wastewater treatment. Enclosed is a summary which lists the investigation findings. The TCEQ Austin Regional Office has received adequate compliance documentation on January 27, 2015, to resolve the alleged violation.

In the listing of the alleged violation, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at <http://www.tceq.state.tx.us> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Austin Region Office at (512) 339-2929 or the Central Office Publications Ordering Team at 512-239-0028.

The TCEQ appreciates your assistance in this matter. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements. If you have additional information that we are unaware of, you have the opportunity to contest the violation documented in this notice. Should you choose to do so, you must notify the Austin Region Office within 10 days from the date of this letter. At that time, Program Manager Ms. Carolyn Runyon will schedule a violation review

TCEQ Region 11 • P.O. Box 13087 • Austin, Texas 78711-3087 • 512-339-2929 • Fax 512-339-3795

Austin Headquarters: 512-239-1000 • tceq.texas.gov • How is our customer service? tceq.texas.gov/customerurvey

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Mr. Foltz
Page 2
March 23, 2015

meeting to be conducted within 21 days from the date of this letter. However, please be advised that if you decide to participate in the violation review process, the TCEQ may still require you to adhere to the compliance schedule included in the attached Summary of Investigation Findings until an official decision is made regarding the status of any or all of the contested violations.

If you or members of your staff have any questions, please feel free to contact Ms. Patricia Phillips in the Austin Region Office at (512) 339-2929.

Sincerely,



Shawn Stewart
Water Section Work Leader
Austin Region Office

SS/pjp

cc: Abel Bautista, Wastewater Compliance Coordinator, Aqua Texas, Inc., 2211 Louetta Rd.,
Spring, TX 77388 (include Attachment)

Attachment: Summary of Investigation Findings

Summary of Investigation Findings

WOODCREEK WWTP

, HAYS COUNTY,

Additional ID(s): WQ0013989001

Investigation #
1224085
Investigation Date: 01/27/2015

ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 564577

2D TWC Chapter 26.121(a)
2D TWC Chapter 26.121(a)(1)
2D TWC Chapter 26.121(a)(3)
2D TWC Chapter 26.121(b)
2D TWC Chapter 26.121(c)
2D TWC Chapter 26.121(d)
2D TWC Chapter 26.121(e)
30 TAC Chapter 305.125(4)
30 TAC Chapter 305.125(5)
TWC Chapter 26.121
TWC Chapter 26.121(a)(2)

PERMIT WQ0013989001, Permit Conditions, Pg. 9, No. 2(g)

Alleged Violation:

Investigation: 1224085

Comment Date: 03/16/2015

Failed to prevent the unauthorized discharge of wastewater. Specifically, during the 18 months preceding the investigation, 13 unauthorized discharges were reported.

09/21/2013 Approximately 3,000 gallons at Camp Young Judea
09/21/2013 Approximately 500 gallons at Lift Station on Cashes Lane
10/13/2013 Approximately 2,000 gallons Lift Station at Woodacre and Pleasant Valley
11/23/2013 Approximately 5,000 gallons at Doolittle Drive
12/13/2013 Approximately 1,000 gallons at Doolittle Drive
01/14/2014 Approximately 500 gallons at 10 Elmwood
02/05/2014 Approximately 5,000 gallons manhole at Woodacre and Pleasant Valley
03/19/2014 Approximately 5,000 gallons at Camp Young Judea
06/08/2014 Approximately 1,500 gallons manhole at Woodacre and Pleasant Valley
07/07/2014 Approximately 200 gallons manhole at Woodacre and Pleasant Valley
07/25/2014 Approximately 1,000 gallons manhole near FM 2325 and Carney Lane
07/26/2014 Approximately 1,000 gallons manhole near FM 2325 and Carney Lane
07/31/2014 Approximately 1,000 gallons manhole near FM 2325 and Carney Lane

In each instance, the proper notification was submitted to TCEQ indicating appropriate actions were taken to remedy each unauthorized discharge. The permit holder discussed the maintenance that has been on-going within the collection system. Numerous issues have been the focus of the permittee's efforts including conducting a manhole survey and outreach projects aimed at getting grinder pumps owned by homeowners properly maintained. The permittee has had no incidents since August 2014.

Recommended Corrective Action: There shall be no unauthorized discharge of wastewater or any other waste into or adjacent to waters of the state. In each case, the permittee has submitted documentation showing that the discharges were properly addressed.

Resolution: The permittee reportedly replaced numerous sections of line and repaired/replaced the electrical parts that caused issues. Since there have been no further incidents within the collections system since August, the violation is resolved.

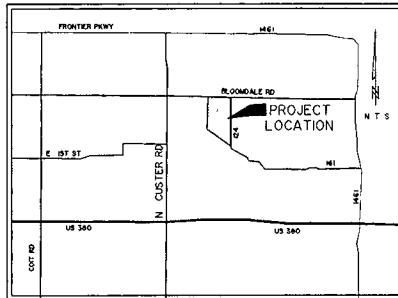
Attachment 8
Operators (Question 25)

NTX TCEQ Certifications as of 11/16/2020

Region	Supervisor	Name	Certifications	Water Certification Number	Wastewater Certification Number	Other Certification Numbers	Issued Date	Expiration Date
NTX	Douglas	Charles Brewer	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0007937			9/20/2018	9/17/2021
NTX	Douglas	Charles Brewer	Wastewater Operator - Class D - Texas Commission on Environmental Quality		Class D - WW0015960		1/14/2020	10/9/2023
NTX	Douglas	Lonna Sanders	Water Operator - Class B - Texas Commission on Environmental Quality	Class B Groundwater - WQ0018986			4/13/2018	6/27/2021
NTX	Douglas	Lonna Sanders	Wastewater Operator - Class B - Texas Commission on Environmental Quality		Class B - WW0040027		8/21/2018	8/29/2021
NTX	Douglas	Lonna Sanders	Customer Service Inspector - Texas Commission on Environmental Quality			GSI - 010001524	3/11/2020	3/11/2023
NTX	Douglas	Lonna Sanders	Water - BPAT - Texas Commission on Environmental Quality			BAPT - 0003873	2/15/2018	3/13/2021
NTX	Douglas	Tary Douglas	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0007856			7/30/2018	9/15/2021
NTX	Douglas	Kery Locke	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0003118			1/31/2020	3/25/2023
NTX	Douglas	Kery Locke	Wastewater Operator - Class D - Texas Commission on Environmental Quality		Class D - WW0061019		9/7/2018	9/7/2021
NTX	Douglas	Kery Locke	Customer Service Inspector - Texas Commission on Environmental Quality			GSI - 010001813	1/13/2020	2/7/2023
NTX	Douglas	Kery Locke	Water - BPAT - Texas Commission on Environmental Quality			BAPT - 0039650	10/29/2018	1/14/2022
NTX	Farms	Danny Johnson	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0016684			8/13/2020	7/19/2023
NTX	Farms	Danny Johnson	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0016477				2/8/2023
NTX	Farms	Danny Johnson	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0062975			6/4/2022
NTX	Farms	Gerardo Valdez	Water Operator - Class B - Texas Commission on Environmental Quality	Class B Groundwater - WQ0012443				2/15/2023
NTX	Farms	Gerardo Valdez	Wastewater Operator - Class B - Texas Commission on Environmental Quality		Class B - WW0007491			3/19/2021
NTX	Farms	John Sweeney	Water Operator - Class C - Texas Commission on Environmental Quality	Class C - WQ0018959				2/8/2021
NTX	Farms	Scott Varnit	Water Distribution - Class C - Texas Commission on Environmental Quality	Class C Distribution - WQ0003667			6/23/2020	8/23/2023
NTX	Farms	Scott Varnit	Wastewater Collections - II - Texas Commission on Environmental Quality		Class II Collections - WW0043421		6/28/2020	7/28/2023
NTX	Farms	Greg Long	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0007058				1/23/2023
NTX	Farms	Greg Long	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0052828			2/8/2021
NTX	Hernandez	Berlannon Clark	Water Distribution - Class C - Texas Commission on Environmental Quality	Class C Distribution - WQ0012830				8/28/2021
NTX	Hernandez	Berlannon Clark	Wastewater Collections - II - Texas Commission on Environmental Quality		Class I Collections - WW0045863			12/15/2020
NTX	Hernandez	Jacob Tune	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0014321				12/21/2021
NTX	Hernandez	Jacob Tune	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0099456			12/8/2021
NTX	Hernandez	Gary Green	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ001859				1/30/2023
NTX	Hernandez	Gary Green	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0036303		4/9/2020	5/20/2023
NTX	Hernandez	J Don Deweavel	Class C Water Distribution - Texas Commission on Environmental Quality	Class C Distribution - WQ0006903				6/22/2022
NTX	Hernandez	J Don Deweavel	Class II Collections - Texas Commission on Environmental Quality		Class II Collections - WW0037797			12/23/2022
NTX	Hernandez	Arnamur	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0012950			5/13/2020	7/17/2023
NTX	Hernandez	Arnamur	Wastewater Collections - I - Texas Commission on Environmental Quality		Class I Collection - WW0050392		3/26/2020	3/20/2023
NTX	Hernandez	Kristopher White	Water Operator - Class A - Texas Commission on Environmental Quality	Class A - WQ0036021				2/2/2021
NTX	Hernandez	Kristopher White	Wastewater Operator - Class A - Texas Commission on Environmental Quality		Class A - WW0052900			7/1/2021
NTX	Hernandez	Mary Gordillo	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0010513				5/31/2022
NTX	Hernandez	Mary Gordillo	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0043414		10/13/2020	10/12/2023
NTX	Hernandez	Tom Leebauer	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0014983			5/12/2020	6/27/2023
NTX	Hernandez	Tom Leebauer	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0082821			12/18/2021
NTX	Kocian	Gwyn Griffin	Surface Water Operator - Class C - Texas Commission on Environmental Quality	Class C Surface Water			1/13/2019	1/27/2023
NTX	Kocian	Gwyn Griffin	Water Distribution - Class C - Texas Commission on Environmental Quality	Class C Distribution - WQ0007471			7/13/2020	9/12/2023
NTX	Kocian	Gwyn Griffin	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0044685		5/8/2020	6/23/2023
NTX	Kocian	Richard Zint	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0009991			8/23/2018	10/29/2022
NTX	Kocian	Richard Zint	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0030120		7/28/2020	8/23/2023
NTX	Kocian	Richard Zint	Customer Service Inspector - Texas Commission on Environmental Quality			GSI - 010005893	10/5/2020	9/21/2023
NTX	Kocian	Tony Gregory	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0004906			9/10/2018	11/30/2022
NTX	Kocian	Tony Gregory	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0001746		5/17/2018	6/22/2021
NTX	Kocian	Tony Gregory	Water Distribution - Class C - Texas Commission on Environmental Quality	Class C Distribution - WQ0001918			7/18/2018	9/2/2021
NTX	Kocian	Tony Gregory	Customer Service Inspector - Texas Commission on Environmental Quality			GSI - 010004070	4/25/2020	5/9/2023
NTX	Rimann	Darryl Wadcock	Water Operator - Class A - Texas Commission on Environmental Quality	Class A - WQ0010440				4/9/2023
NTX	Rimann	Darryl Wadcock	Wastewater Operator - Class A - Texas Commission on Environmental Quality		Class A - Wastewater - WW0010580		7/10/2018	9/24/2023
NTX	Wadcock	Gary Douglas	Water Operator - Class B - Texas Commission on Environmental Quality	Class B Groundwater - WQ0008515			9/5/2018	10/23/2021
NTX	Wadcock	Gary Douglas	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0012733		9/22/2020	10/27/2023
NTX	Wadcock	Gary Douglas	Customer Service Inspector - Texas Commission on Environmental Quality			GSI - 010004166	2/18/2020	5/13/2023
NTX	Wadcock	Gary Douglas	Water - BPAT - Texas Commission on Environmental Quality			BPAT - 007775	4/27/2020	5/10/2023
NTX	Wadcock	Mark Kazann	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0008245			4/22/2020	8/25/2023
NTX	Wadcock	Mark Kazann	Customer Service Inspector - Texas Commission on Environmental Quality			GSI - 010004199	3/11/2020	5/29/2023
NTX	Wadcock	Mike Hernandez	Water Operator - Class B - Texas Commission on Environmental Quality	Class B Groundwater - WQ0012964			5/21/2018	6/21/2022
NTX	Wadcock	Mike Hernandez	Wastewater Operator - Class B - Texas Commission on Environmental Quality		Class B - WW0040289		10/29/2018	11/18/2021
NTX	Wadcock	Noia Farms	Water Operator - Class C - Texas Commission on Environmental Quality	Class C Groundwater - WQ0009712			7/13/2020	9/2/2023
NTX	Wadcock	Noia Farms	Wastewater Operator - Class C - Texas Commission on Environmental Quality		Class C - WW0036397		4/22/2020	6/28/2023

Attachment 9
Facilities (Question 27)

**THE CITY OF MCKINNEY ETJ,
 COLLIN COUNTY, TEXAS
 WATER IMPROVEMENTS
 TO SERVE
 BLOCK A, LOT 1-3
 MANSIONS ADDITION
 MANSIONS II OF PROSPER
 & LUXE OF PROSPER**



VICINITY MAP

NOTE:
 1) ALL REFERENCES TO "CITY" SHALL MEAN "CITY OF MCKINNEY"
 2) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF MCKINNEY AND NORTH TEXAS COUNCIL OF GOVERNMENT STANDARD SPECIFICATIONS

CITY OF MCKINNEY STANDARD
 DETAIL SHEETS INCORPORATED
 HEREIN BY REFERENCE



W/A WIER & ASSOCIATES, INC.
 ENGINEERS SURVEYORS LAND PLANNERS
 2201 L. LAMAR BLVD., SUITE 200E WILSON, TEXAS 75070-1670 (972) 741-7700
 State Tax Registration No. F-2776 www.WierAssociates.com

SHEET INDEX

Sheet No	Sheet Title
2	WATER NOTES
3	MANSIONS OVERALL WATER PLAN
4	MANSIONS WATER PLAN A
5	MANSIONS WATER PLAN B
6	MANSIONS WATER PLAN C
7	LUXE OVERALL WATER PLAN
8	LUXE WATER PLAN A
9	LUXE WATER PLAN B
10	LUXE WATER PLAN CBD
11	WATER DETAILS
12	WATER DETAILS
13	WATER DETAILS

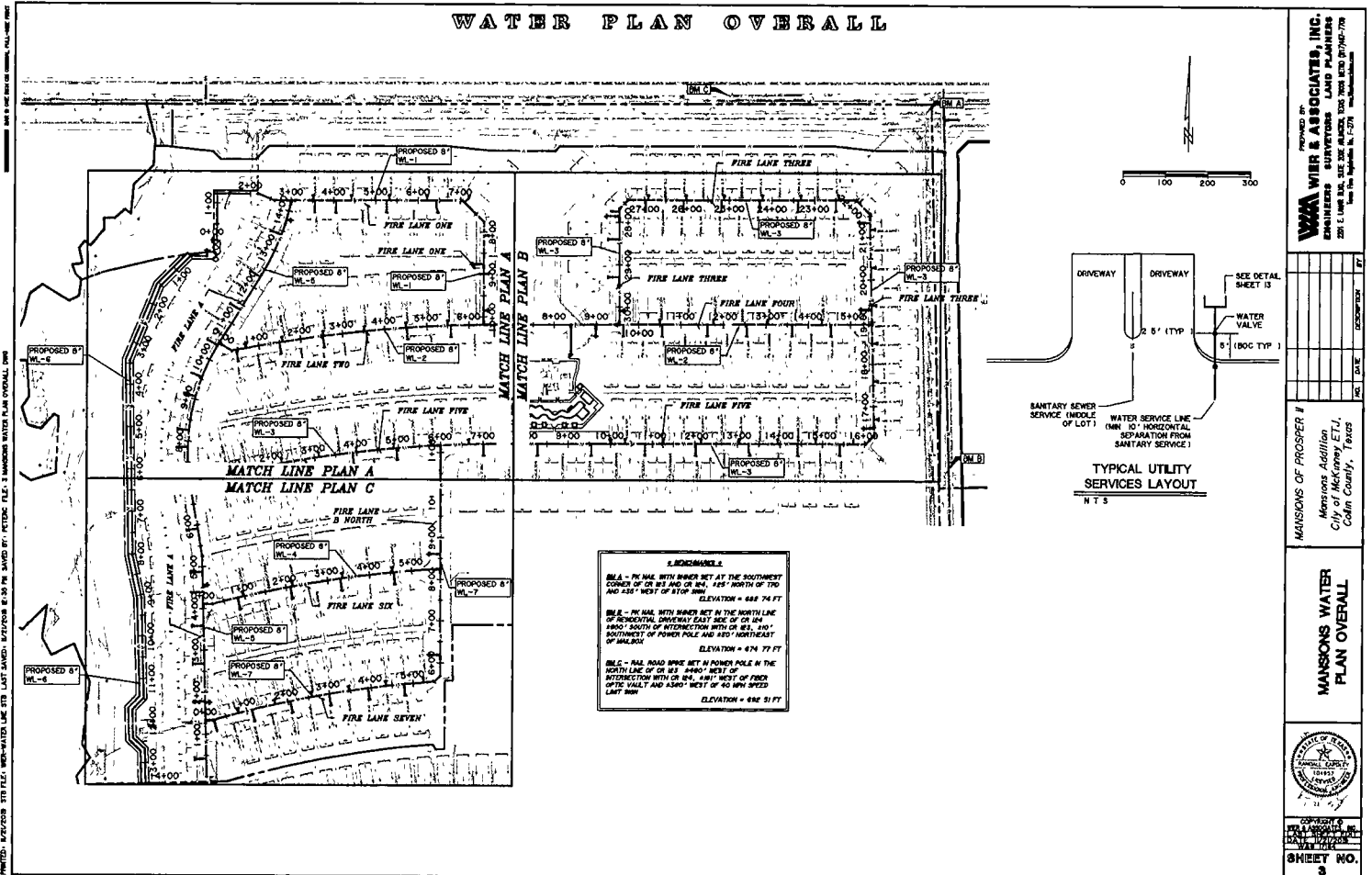
REVISIONS

NO.	DATE	DESCRIPTION	BY

PRINTED: 1/12/2008 3:18 PM FILE: WIER-PAVING-STS LAST SAVED: 1/12/2008 11:10 AM SAVED BY: KTERIC FILE: 1 TIESS COVER SHEET DWG

W. A. # 17164 - WATER IMPROVEMENTS TO SERVE LOT 1-3 BLOCK A MANSIONS ADDITION CITY OF MCKINNEY ETJ COLLIN COUNTY TEXAS

WATER PLAN OVERALL



1. REMARKS

ML A - PK VAL WITH BURNER SET AT THE SOUTHWEST CORNER OF CR 81 AND CR 141, 145' NORTH OF TD AND 45' WEST OF STOP SIGN. ELEVATION = 688.74 FT

ML B - PK VAL WITH BURNER SET IN THE NORTH LINE OF RESIDENTIAL DRIVEWAY EAST SIDE OF CR 141, 145' SOUTH OF INTERSECTION WITH CR 81, 540' SOUTHWEST OF POWER POLE AND 480' NORTHEAST OF ML B04. ELEVATION = 674.77 FT

ML C - PAV ROAD W/KE SET IN POWER POLE IN THE NORTH LINE OF CR 141, 540' WEST OF INTERSECTION WITH CR 81, 481' WEST OF FIBER OPTIC TALL AND 450' WEST OF 40 MPH SPEED LIMIT SIGN. ELEVATION = 686.51 FT

PRINTED: 8/20/2019 3:15 PM. FILE: W870-0208.DWG. DATE: 8/20/2019 3:15 PM. SAVER BY: PETERC. FILE: 3 MANSONS WATER PLAN OVERALL.DWG

WMA WIER & ASSOCIATES, INC.
 REGISTERED PROFESSIONAL LAND PLANNERS
 2501 E. LOOP W. SUITE 2000, DALLAS, TEXAS 75201
 TEL: 972.382.1100 FAX: 972.382.1101 WWW.WMA-INC.COM

MANSONS OF PROSPER #1

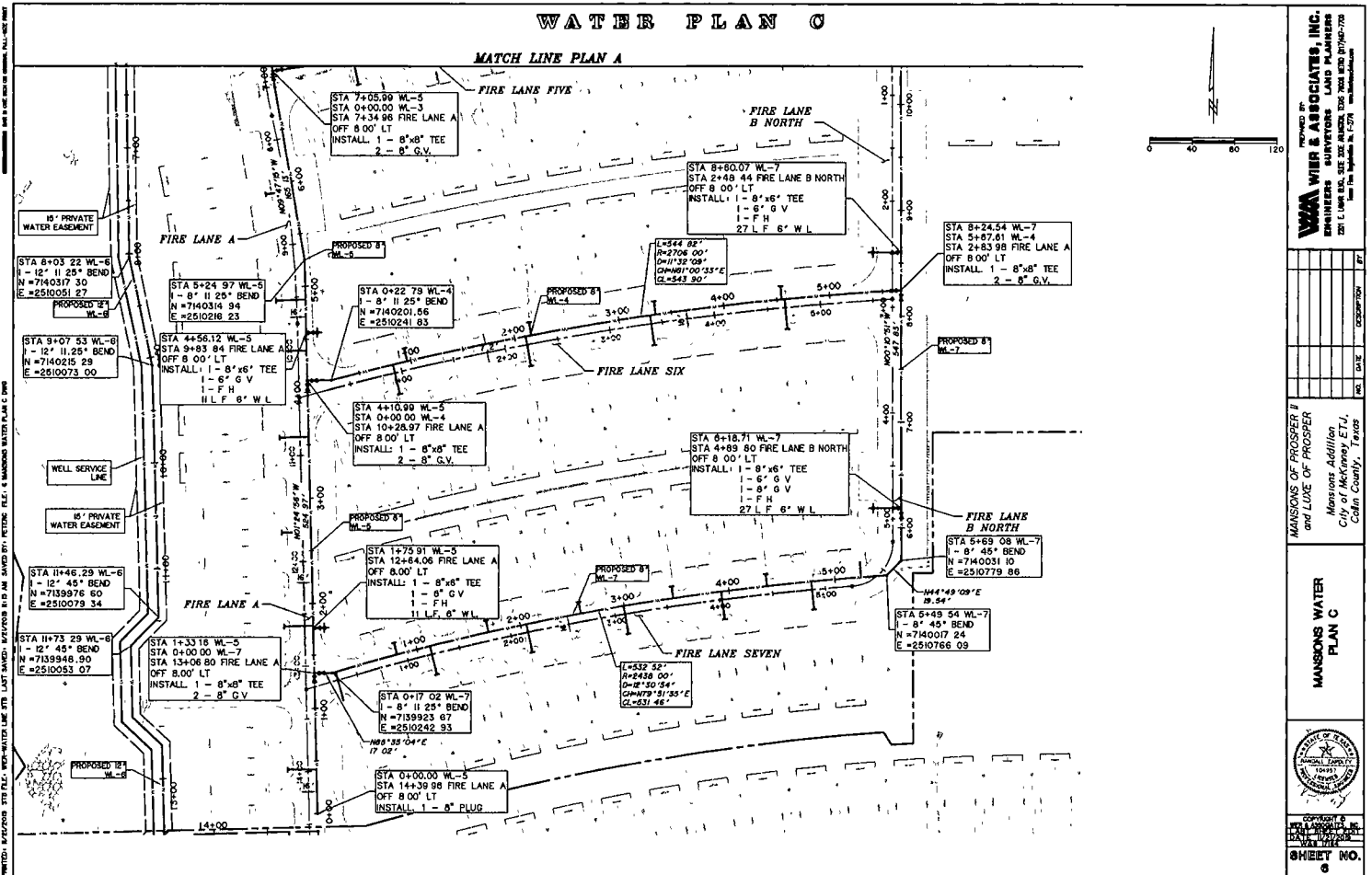
MANSONS WATER PLAN OVERALL

MANSONS OF PROSPER #1
 Mansions Addition
 City of McKinney ETJ,
 Collin County, Texas

DATE: 8/20/2019
 SHEET NO. 3

WATER PLAN C

MATCH LINE PLAN A



WAA WIER & ASSOCIATES, INC.
 ENGINEERS SURVEYORS LAND PLANNERS
 201 E. University Ave., Suite 100, Phoenix, AZ 85024
 Phone: (602) 955-1100
 Fax: (602) 955-1101
 Email: info@waa-wier.com

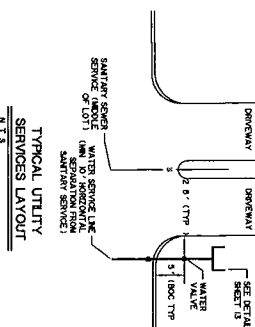
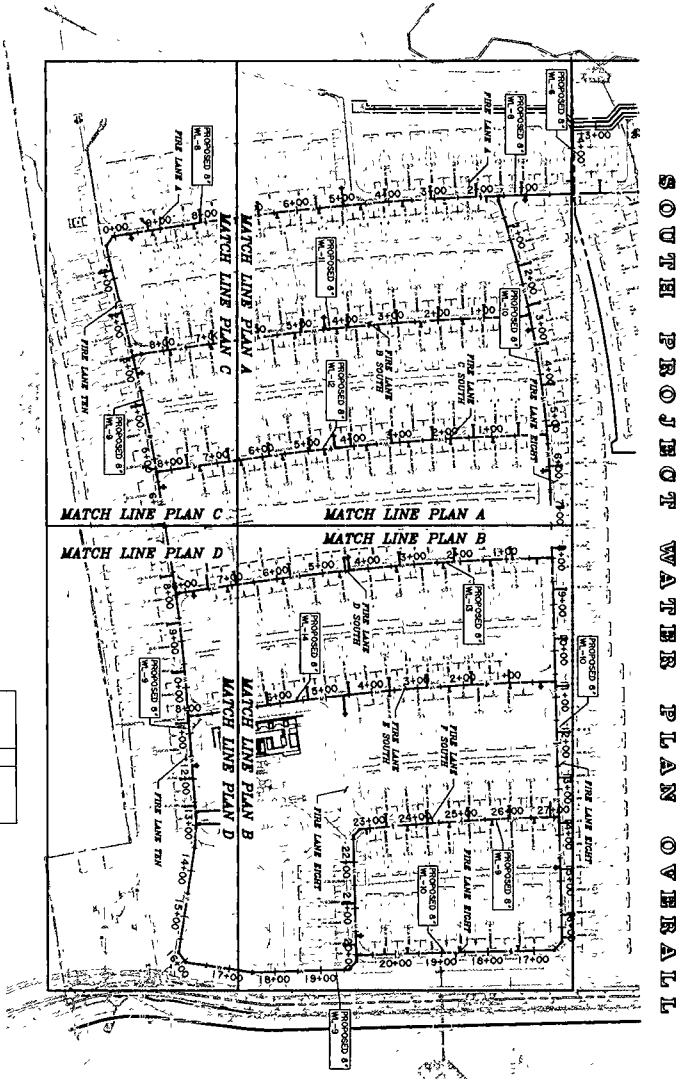
MANSONS OF PROSPER II
 and LOUE OF PROSPER
 Mansons Addition
 City of McKinney, TX,
 Collin County, Texas

MANSONS WATER PLAN C

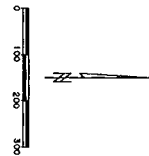


SHEET NO. 6

1. APPROXIMATE
 100' ± PER 1" SCALE WITH ANGLE SET AT 7° THE SOUTHWEST
 CORNER OF LOT 28 IS 440' ± AND THE SOUTHWEST
 CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 2. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 3. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 4. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 5. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 6. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 7. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 8. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 9. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.
 10. THE 100' PER 1" SCALE WITH AN ANGLE SET AT 7° THE
 SOUTHWEST CORNER OF LOT 28 IS 440' ± AND THE
 SOUTHWEST CORNER OF LOT 29 IS 440' ±. ELEVATION = 444' N.T.Y.



SOUTH PROJECT WATER PLAN OVERALL



ENGINEERS &
 SURVEYORS
 LAND PLANNERS
 SHEET NO. 7

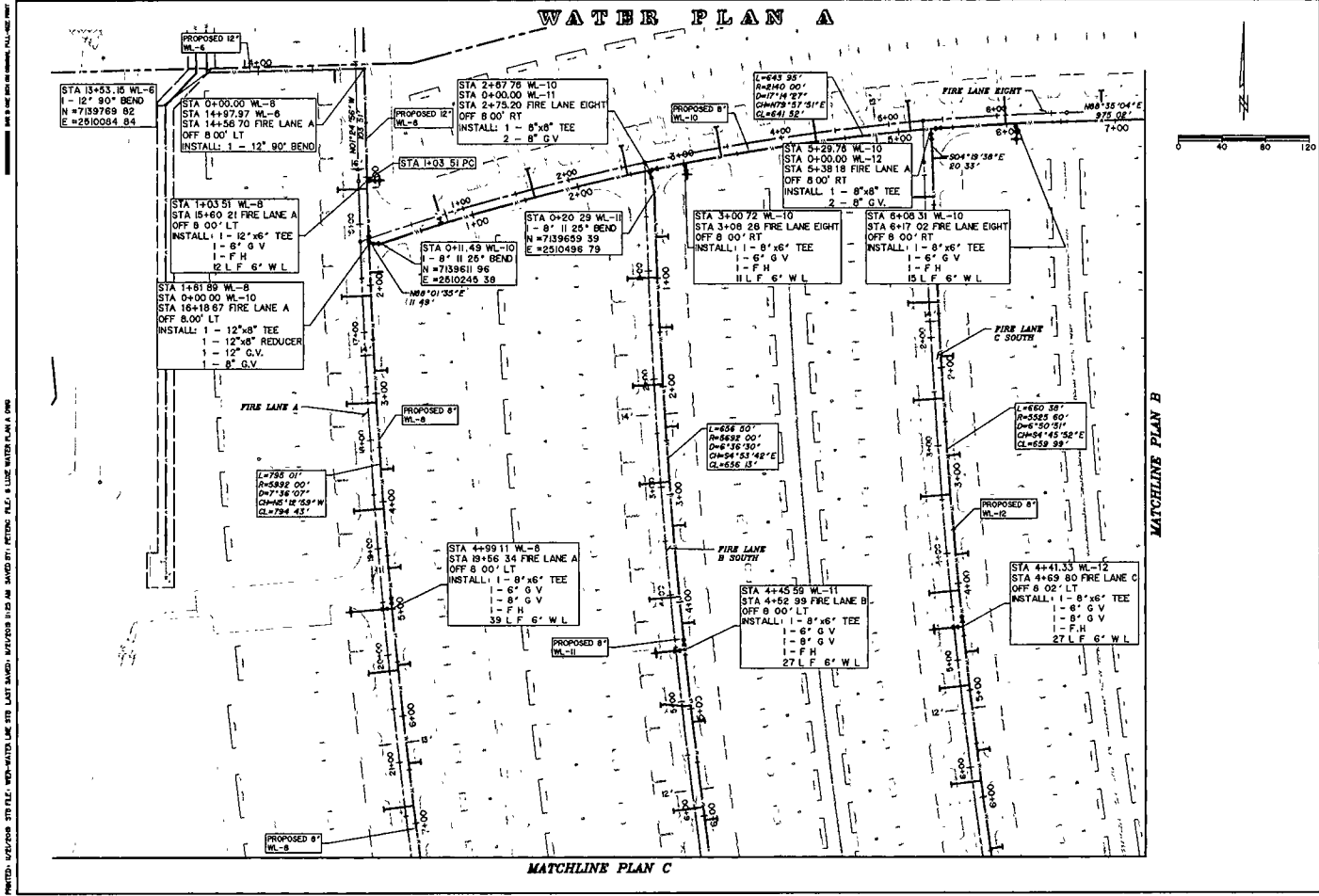
**LUXE WATER PLAN
 OVERALL**

LUXE OF PROSPER
 Mansions Addition
 City of McKinney ETJ,
 Collin County, Texas

NO.	DATE	DESCRIPTION	BY

PREPARED BY
WMA WIER & ASSOCIATES, INC.
 ENGINEERS SURVEYORS LAND PLANNERS
 2261 E. LAMAR BLVD., SUITE 300, MCKINNEY, TEXAS 75069 (972) 447-7700
 www.wierandassociates.com

WATER PLAN A



PRINTED: 5/22/2008 3:10 PM FILE: W08-WATER PLAN A.DWG LAST SAVED BY: RITING: FILE: LUXE WATER PLAN A.DWG

WAW WIER & ASSOCIATES, INC.
 ENGINEERS SURVEYORS LAND PLANNERS
 2211 L. LINDSEY BLVD. SUITE 100
 WACO, TEXAS 76798-1271

MANSIONS OF PROSPER II
 and LUXE OF PROSPER

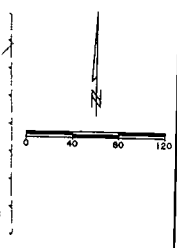
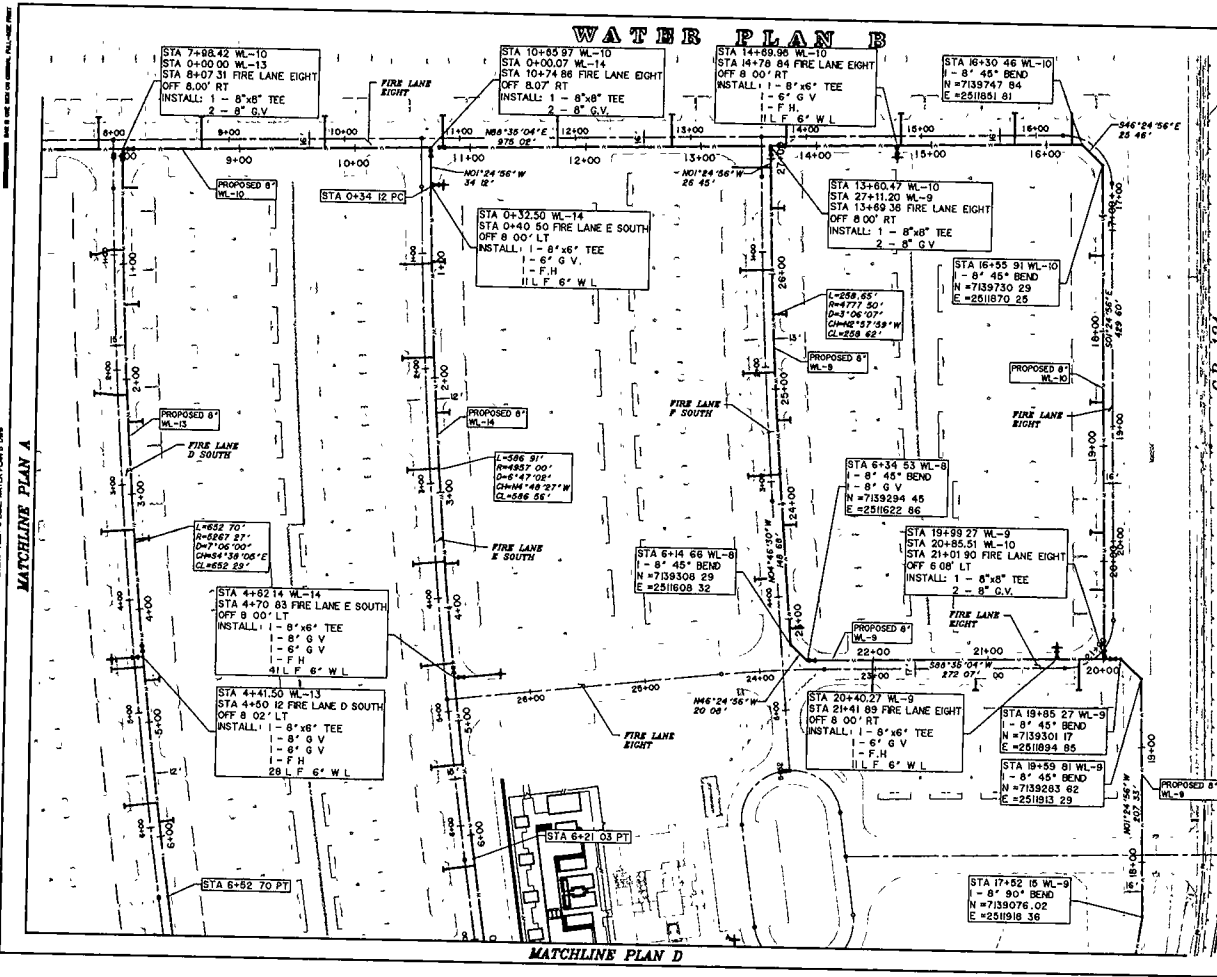
Mansions Addition
 City of McKinney, T.X.
 Collin County, Texas

LUXE WATER PLAN A


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SHEET NO. 8

WATER PLAN B



PREPARED BY
WAM WIER & ASSOCIATES, INC.
 ENGINEERS SURVEYORS LAND PLANNERS
 251 E. UNIVERSITY BLVD. SUITE 2000 DALLAS, TEXAS 75201
 TEL: 972.343.1100 FAX: 972.343.1101

NO.	DATE	DESCRIPTION

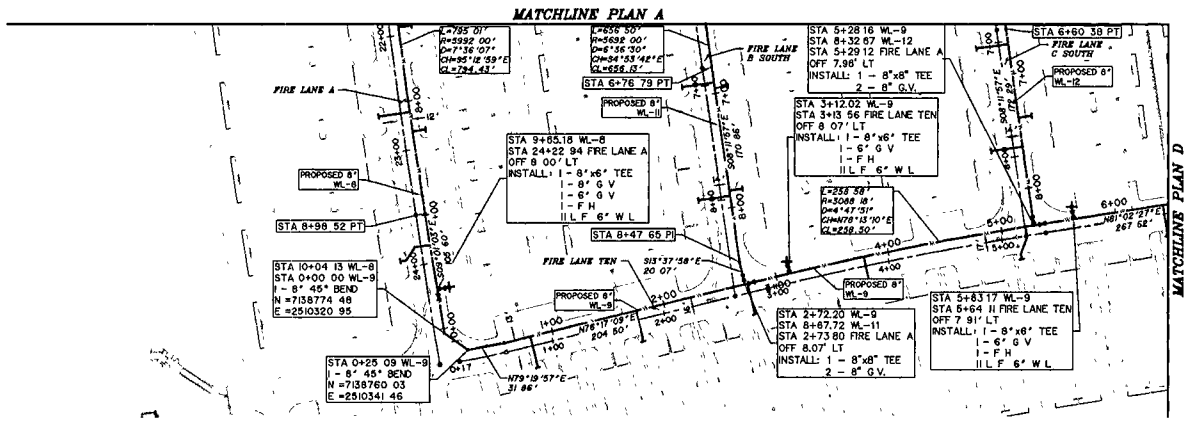
MANSONS OF PROSPER I
 and LIXIE OF PROSPER I
 Mansions Addition
 City of Rockwall, TX
 Collin County, Texas

LUKE WATER PLAN B

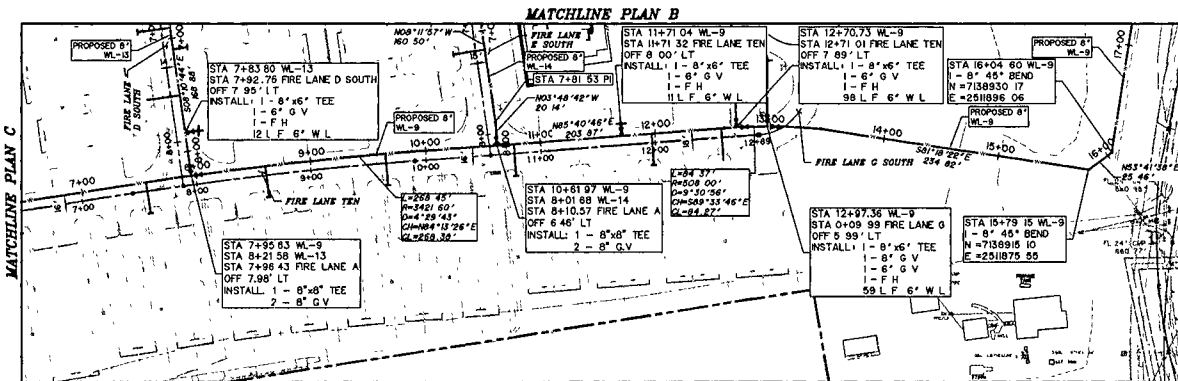
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WATER PLAN C




WATER PLAN D



WAA WIER & ASSOCIATES, INC.
 ENGINEERS SURVEYORS LAND PLANNERS
 231 E. University Blvd., Suite 100
 Fort Worth, Texas 76102

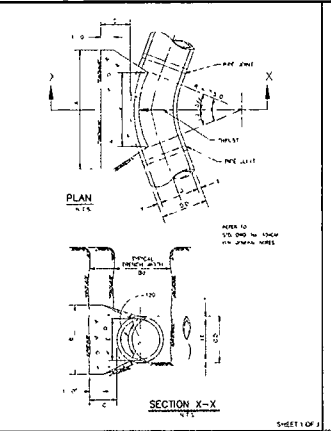
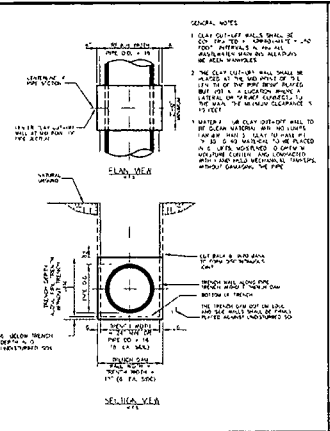
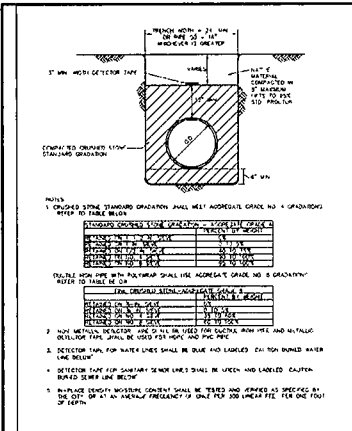
MANSONS OF PROSPER
 and LOUE OF PROSPER
 Mansions Addition
 City of McKinney, TX,
 Collin County, Texas

LUXE WATER PLAN C&D


 COMPANY NO. 12345
 ENGINEER NO. 12345
 STATE OF TEXAS
 EXPIRES 12/31/2024

SHEET NO. 10

PLOT: 1/20/2019 8:15 AM; FILE: WAT-WITH-LINE.DWG; LAST SAVED: 1/20/2019 8:15 AM; BY: JETTER; PLOT: 1/20/2019 8:15 AM; WAT-WITH-LINE.DWG



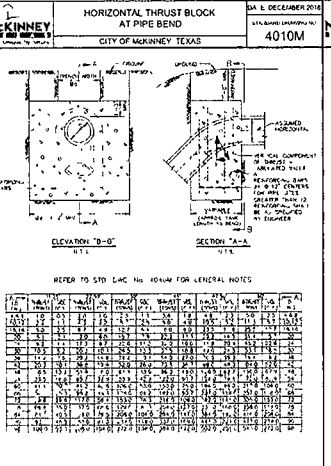
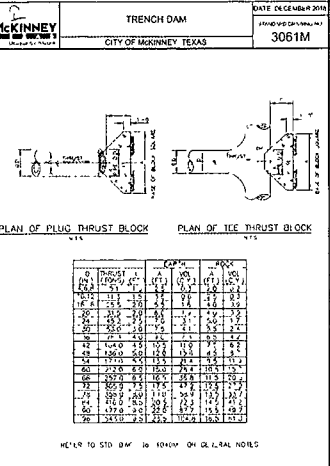
TABLES OF DIMENSIONS AND QUANTITIES

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE	100	CU YD	120.00	12000.00
2	STEEL	100	LB	0.50	50.00
3	REBAR	100	LB	0.50	50.00
4	FORMWORK	100	SQ YD	1.00	100.00
5	LABOR	100	HR	1.00	100.00
6	TRUCK	100	HR	1.00	100.00
7	WATER	100	CU YD	1.00	100.00
8	ADDITIONAL	100	CU YD	1.00	100.00
9	ADDITIONAL	100	CU YD	1.00	100.00
10	ADDITIONAL	100	CU YD	1.00	100.00

MODIFIED CLASS II EMBEDMENT 4" 6", 8" AND 12" DUCTILE IRON HOPE & PVC PIPE CITY OF MCKINNEY TEXAS

DATE: DECEMBER 2016
STANDARD DRAWING NO.: 3060M

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE	100	CU YD	120.00	12000.00
2	STEEL	100	LB	0.50	50.00
3	REBAR	100	LB	0.50	50.00
4	FORMWORK	100	SQ YD	1.00	100.00
5	LABOR	100	HR	1.00	100.00
6	TRUCK	100	HR	1.00	100.00
7	WATER	100	CU YD	1.00	100.00
8	ADDITIONAL	100	CU YD	1.00	100.00
9	ADDITIONAL	100	CU YD	1.00	100.00
10	ADDITIONAL	100	CU YD	1.00	100.00



HORIZONTAL THRUST BLOCK AT PIPE BEND CITY OF MCKINNEY TEXAS

DATE: DECEMBER 2016
STANDARD DRAWING NO.: 4010M

GENERAL NOTES FOR ALL THRUST BLOCKS

1. CONCRETE FOR BLOCKS SHALL BE 2500 PSI MINIMUM.
2. ALL CONCRETE SHALL BE PLACED AT A MINIMUM PRESSURE OF 200 PSI FOR DUCTILE IRON PIPE AND 150 PSI FOR CONCRETE PIPE.
3. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
4. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
5. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
6. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
7. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
8. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
9. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
10. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.

HORIZONTAL THRUST BLOCK AT PIPE BEND CITY OF MCKINNEY TEXAS

DATE: DECEMBER 2016
STANDARD DRAWING NO.: 4010M

TABLES OF DIMENSIONS AND QUANTITIES

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE	100	CU YD	120.00	12000.00
2	STEEL	100	LB	0.50	50.00
3	REBAR	100	LB	0.50	50.00
4	FORMWORK	100	SQ YD	1.00	100.00
5	LABOR	100	HR	1.00	100.00
6	TRUCK	100	HR	1.00	100.00
7	WATER	100	CU YD	1.00	100.00
8	ADDITIONAL	100	CU YD	1.00	100.00
9	ADDITIONAL	100	CU YD	1.00	100.00
10	ADDITIONAL	100	CU YD	1.00	100.00



THRUST BLOCK GENERAL NOTES CITY OF MCKINNEY TEXAS

DATE: DECEMBER 2016
STANDARD DRAWING NO.: 4040M

GENERAL NOTES FOR ALL THRUST BLOCKS

1. CONCRETE FOR BLOCKS SHALL BE 2500 PSI MINIMUM.
2. ALL CONCRETE SHALL BE PLACED AT A MINIMUM PRESSURE OF 200 PSI FOR DUCTILE IRON PIPE AND 150 PSI FOR CONCRETE PIPE.
3. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
4. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.
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10. ALL THURST BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF 18" OF 1/2" GRADE SAND OR EQUIVALENT MATERIAL UNDER THE DAM.

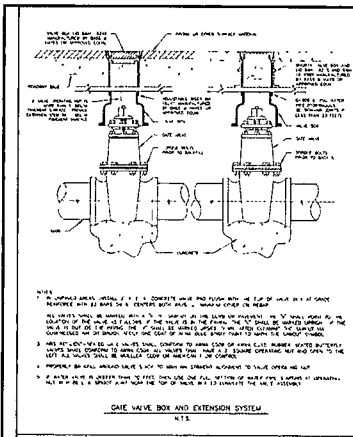
WIA WIER & ASSOCIATES, INC.
ENGINEERS, SURVEYORS, LAND PLANNERS
225 L. L. LAMAR BLVD., SUITE 200, DALLAS, TEXAS 75201 (972) 311-1400
www.wia-wier.com

MAJORS OF PROSPER II AND LUXE OF PROSPER II
Majors, Addition
City of McKinney, L.P.
Collin County, Texas

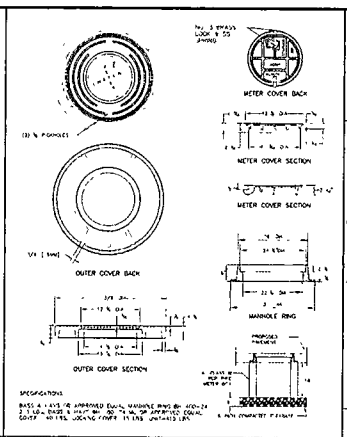
WATER DETAILS

CONTRACT NO. 16-000000-001
PROJECT NO. 16-000000-001
SHEET NO. 11

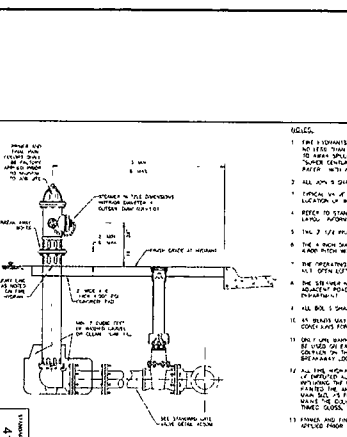
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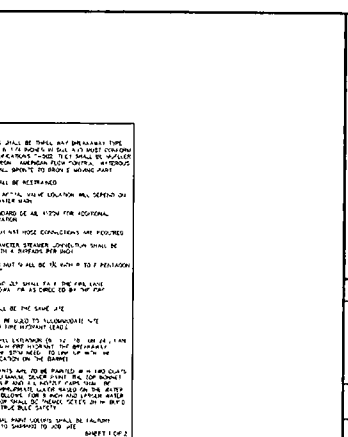
GATE VALVE 4" TO 12" BOX & EXTENSION SYSTEM
 CITY OF MCKINNEY, TEXAS
 DATE: DECEMBER 2018
 PROJECT: 4060M



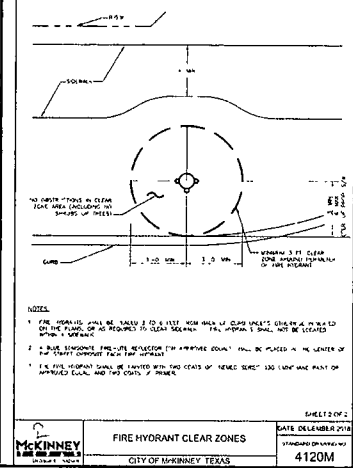
TRAFFIC RATED DOMESTIC WATER METER BOX (UP TO 2" METER)
 CITY OF MCKINNEY, TEXAS
 DATE: DECEMBER 2018
 PROJECT: 4066M



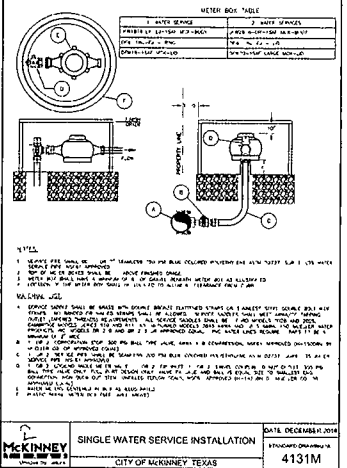
FIRE HYDRANT INSTALLATION
 CITY OF MCKINNEY, TEXAS
 DATE: DECEMBER 2018
 PROJECT: 4120M



FIRE HYDRANT CLEAR ZONES
 CITY OF MCKINNEY, TEXAS
 DATE: DECEMBER 2018
 PROJECT: 4120M



SINGLE WATER SERVICE INSTALLATION
 CITY OF MCKINNEY, TEXAS
 DATE: DECEMBER 2018
 PROJECT: 4131M



FIRE HYDRANT CLEAR ZONES
 CITY OF MCKINNEY, TEXAS
 DATE: DECEMBER 2018
 PROJECT: 4120M

WIA WIER & ASSOCIATES, INC.
 ENGINEERS SURVEYORS LAND PLANNERS
 2201 L. LAMAR BLVD. SUITE 300 W. MCKINNEY, TEXAS 75069 (972) 941-7700
 www.WierAssoc.com

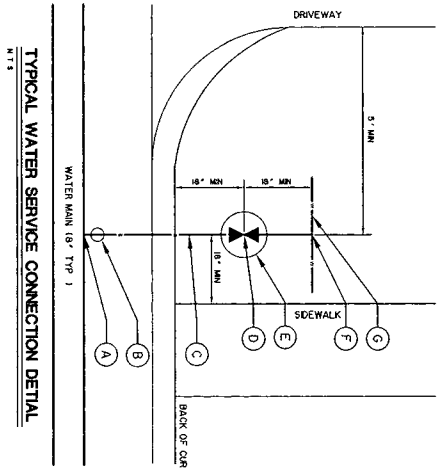
REVISIONS

NO.	DATE	DESCRIPTION

MANIONS OF PROSPER
 and LOUIE OF PROSPER
 Mansions Addition
 City of McKinney, TX,
 Collin County, Texas


WATER DETAILS

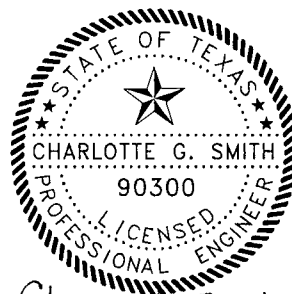
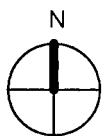
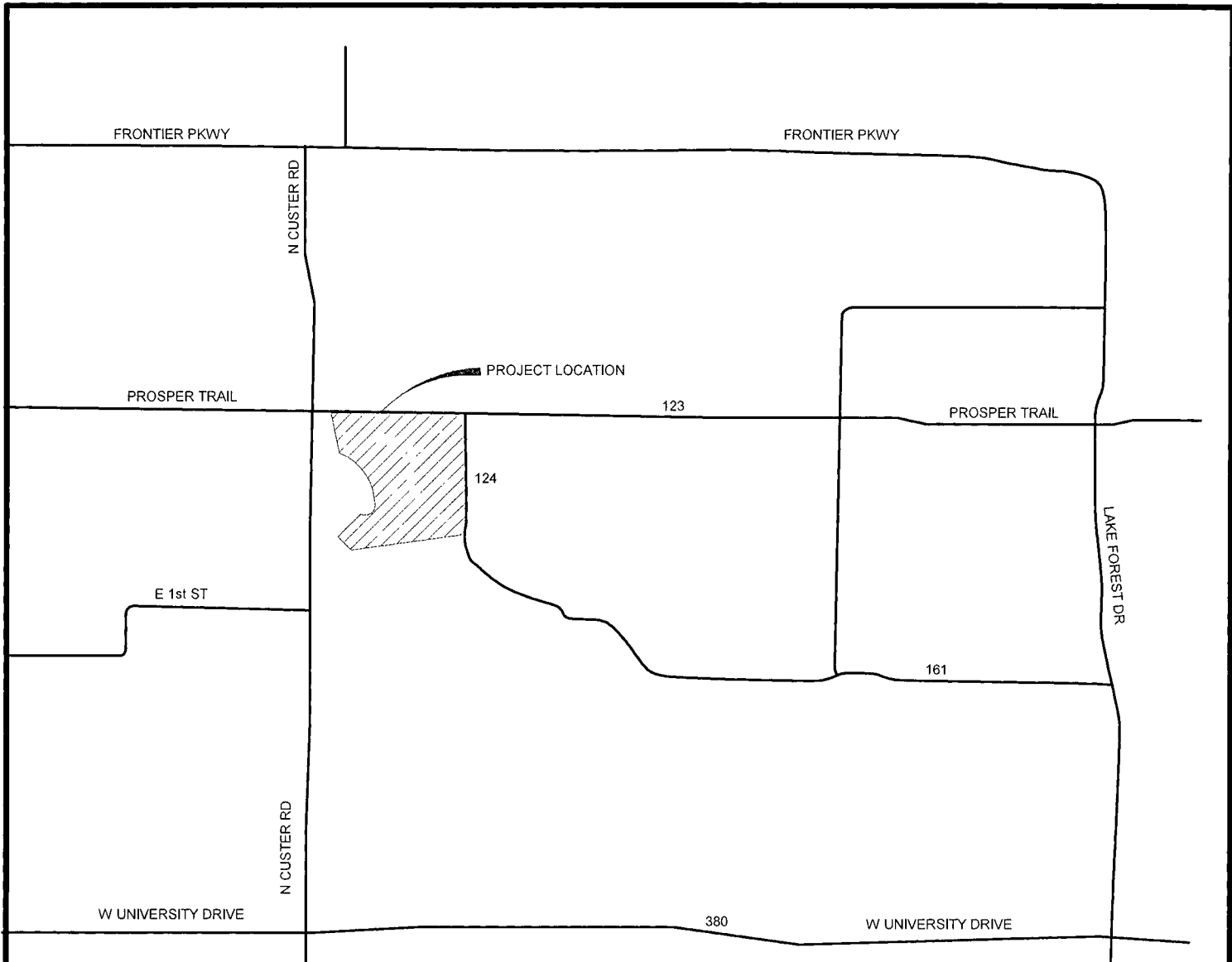
SHEET NO. 12



TYPICAL WATER SERVICE CONNECTION DETAIL
N.T.S.

- NOTES:
- A SERVICE SADDLE SHALL BE BRASS WITH DOUBLE BRONZE WELDING AND SHALL BE APPROVED BY THE CITY ENGINEER. SERVICE SADDLES SHALL MEET ANSW/CC TANDARD OUTLET SHALL BE FOR MODELS 2023 AND 2025. CHANGE MODELS 2025 AWWA AND WELLEN WATER PRODUCTS INC. MODEL 2025 AND BR 2.5 ON APPROVED EQUAL PVC WATER LINES.
 - B 2" COMPRESSION STOP, 100 PSI SHALL TYPE VALVE, ANSW X CO. OR APPROVED EQUAL, FINISH W/SHOBB BY WELLEN.
 - C SERVICE PIPE SHALL BE 3" SCH 40S 154 GALV COULDED PPS, NSR/1 APPROVED.
 - D 6" COMPRESSION STOP, 100 PSI SHALL TYPE VALVE, ANSW X CO. OR APPROVED EQUAL, FINISH W/SHOBB BY WELLEN.
 - E 6" COMPRESSION STOP, 100 PSI SHALL TYPE VALVE, ANSW X CO. OR APPROVED EQUAL, FINISH W/SHOBB BY WELLEN.
 - F AND 1" COMPRESSION OUTLET, SERVICE TEE TO BE APPROVED EQUAL, FINISH W/SHOBB BY WELLEN.
 - G SERVICE PIPE MATERIAL AND CONTINUATION TO RESIDUAL SHALL BE PER BUILDING CODE.

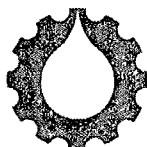
	<p>WATER DETAILS</p>	<p>MANSIONS OF PROSPER II and LUXE OF PROSPER</p> <p>Mansions Addition City of McKinney, TX, Collin County, Texas</p>	<p>PREPARED BY WIA WIER & ASSOCIATES, INC. ENGINEERS SURVEYORS LAND PLANNERS</p> <p>2201 L LAMB BLVD, SUITE 300, IRVING, TEXAS 75038 (972) 467-7700 Fax: (972) 467-7700 www.wiaassociates.com</p>																								
<p>CONTRACT NO. 13-0000000000 SHEET NO. 28</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 15%;">DATE</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 20%;">BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION	BY																				
NO.	DATE	DESCRIPTION	BY																								



05/31/2019

Charlotte G. Smith

SEAL FOR REGULATORY APPROVAL,
NOT FOR CONSTRUCTION



**PERKINS
ENGINEERING
CONSULTANTS, INC.**
TBPE REGISTRATION NO F-8699

LOCATION MAP
N CUSTER RD
WATER TREATMENT PLANT
CONTRACT No.1 COLLIN COUNTY, TEXAS

Date
11.30.2018

PEJ No.
WES 18-001

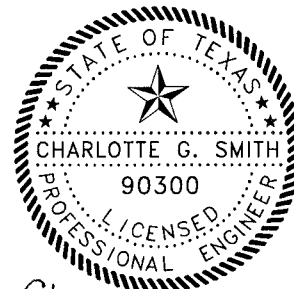
SHEET No. **01**

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS & CONDITIONS BEFORE CONSTRUCTION & PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK
2. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF EROSION CONTROL AND SEDIMENTATION MEASURES THROUGHTOUT THE PROJECT.
3. CONTRACTOR SHALL MAINTAIN ENTRANCE TO PROJECT SITE SO THAT TRACKING OF MUD INTO PUBLIC RIGHT-OF-WAYS AND ONTO PRIVATE PROPERTY SHALL BE PREVENTED ALL MATERIAL TRACKED, SPILLED, WASHED OR ENTERING THE SITE FROM VEHICLES OR CONSTRUCTION EQUIPMENT SHALL BE REMOVED IMMEDIATELY AND MEASURES SHALL BE TAKEN TO PREVENT SUBSEQUENT OCCURRENCES
4. CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DOCUMENTS.
5. ALL PIPES AND RELATED APPURTENANCES SHALL BE INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS WITH REFERENCE TO MATERIALS TO BE USED AND PROCEDURES TO BE FOLLOWED.
6. ALL PIPES AND RELATED APPURTENANCES SHALL BE FLUSHED AND TESTED FOR PRESSURE AND LEAKAGE AND SHALL NOT EXCEED THE AMOUNTS ALLOWED OR RECOMMENDED BY AWWA FORMULAS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TAPS, VALVES, FITTINGS, ETC. FOR FLUSHING AND TESTING OF NEW WATER LINES
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH STATE LAWS AND FEDERAL REGULATIONS RELATING TO TRENCH SAFETY, INCLUDING THOSE WHICH MAY BE ENACTED DURING PERFORMANCE UNDER THIS CONTRACT
8. INFORMATION CONCERNING TYPE, SIZE & LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIS OR HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO CONTRACTOR SHALL USE EXTREME CARE WHEN PERFORMING ANY EXCAVATION GRADING OR DEMOLITION OPERATIONS IN THE PROXIMITY OF EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION TO REPORT HIS ACTIVITIES AND REQUEST VERIFICATION OF UTILITY LINE LOCATIONS WITHIN THE SCOPE OF THIS PROJECT.
9. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL REQUIREMENTS OF THE LATEST EDITION OF THE TCEQ "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" 30 TAC CHAPTER 290. WITH REFERENCE TO POTABLE WATER SYSTEMS.
10. PECI HAS PREPARED SPECIFICATIONS WHICH ARE A PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT THE CONTRACTOR SHALL MAKE HIMSELF/HERSELF FAMILIAR WITH THE REQUIREMENTS OF THE SPECIFICATIONS

WELL NOTES

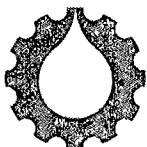
1. THESE WATER WELL FACILITIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D
2. THE PREMISES, MATERIALS TOOLS AND DRILLING EQUIPMENT SHALL BE MAINTAINED SO AS TO MINIMIZE CONTAMINATION OF THE GROUNDWATER DURING DRILLING OPERATION.
3. WATER USED IN ANY DRILLING OPERATION SHALL BE OF SAFE POTABLE QUALITY WATER USED IN THE MIXING OF DRILLING FLUIDS OR MUD SHALL CONTAIN A CHLORINE RESIDUAL OF AT LEAST 0.5 MILLIGRAMS PER LITER (mg/L).
4. THE SLUSH PIT SHALL BE CONSTRUCTED AND MAINTAINED SO AS TO MINIMIZE CONTAMINATION OF THE DRILLING MUD
5. NO TEMPORARY TOILET FACILITIES SHALL BE MAINTAINED WITHIN 150 FEET OF THE WELL BEING CONSTRUCTED UNLESS THEY ARE OF A SEALED, LEAKPROF TYPE.



05/31/2019

Charlotte G. Smith

SEAL FOR REGULATORY APPROVAL,
NOT FOR CONSTRUCTION



**PERKINS
ENGINEERING
CONSULTANTS, INC.**
TBPE REGISTRATION NO F-8699

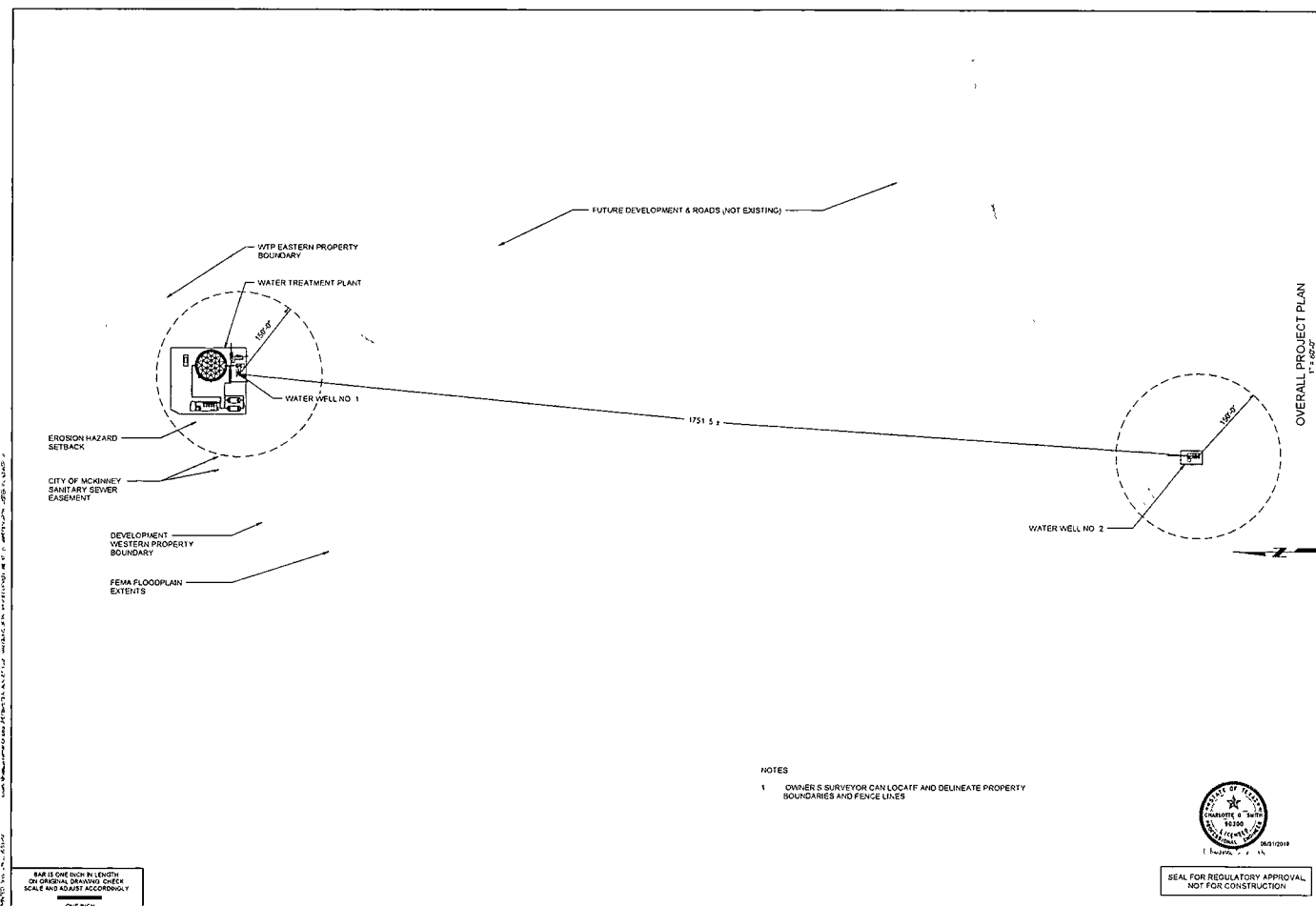
GENERAL NOTES

N CUSTER RD
WATER TREATMENT PLANT
CONTRACT No.1 COLLIN COUNTY, TEXAS

Date
11.30.2018

PEJ No.
WES 18-001

SHEET No. **02**



BAR IS ONE INCH IN LENGTH
 OF ORIGINAL DRAWING OTHER
 SCALE AND ADJUST ACCORDINGLY

NOTES
 1 OWNER'S SURVEYOR CAN LOCATE AND DELINEATE PROPERTY
 BOUNDARIES AND FENCE LINES

SEAL FOR REGULATORY APPROVAL
 NOT FOR CONSTRUCTION

PERKINS
 ENGINEERING
 CONSULTANTS, INC
INC. REGISTRATION NO. 04888

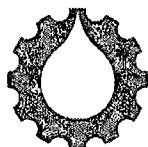
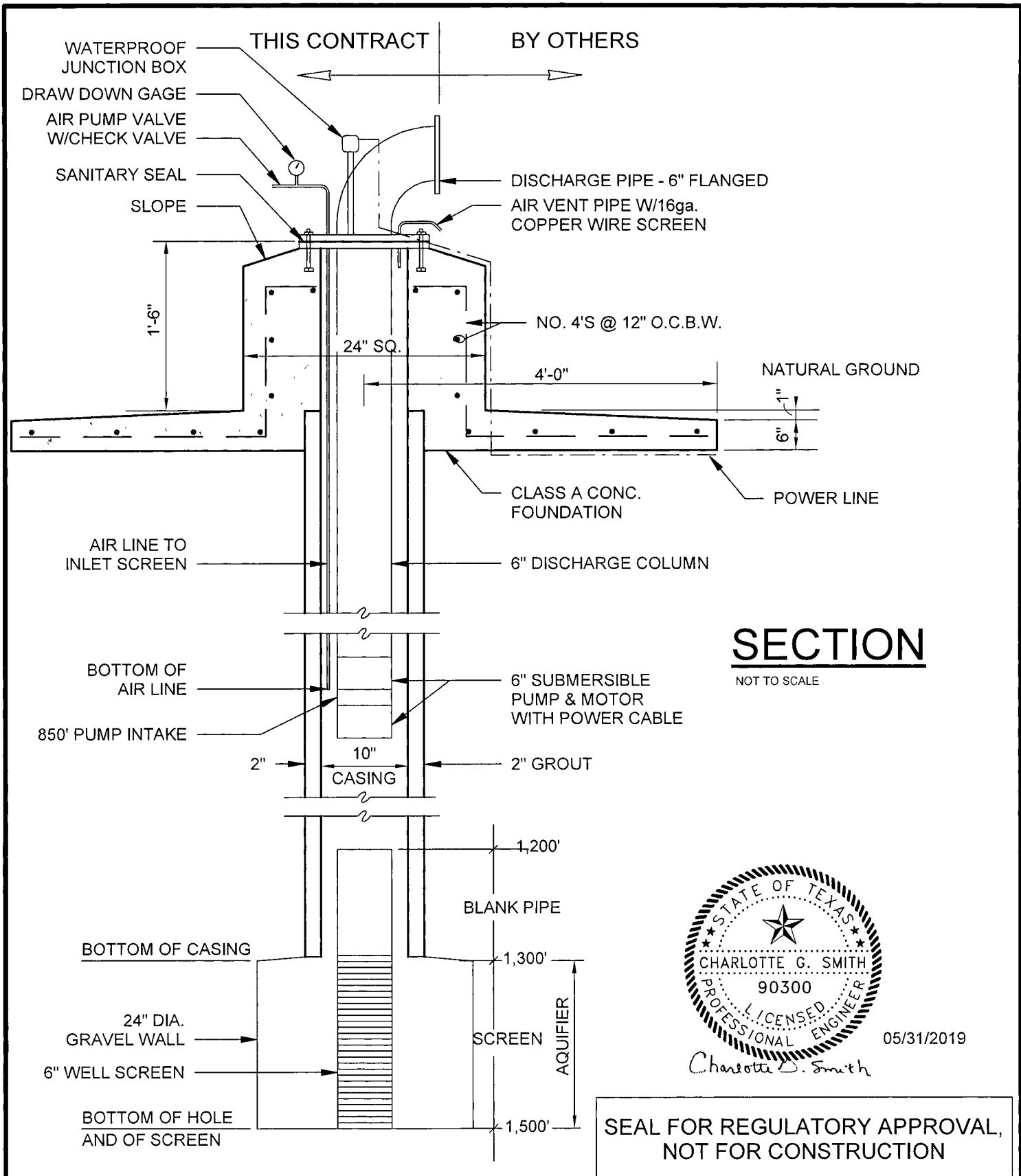
OVERALL PROJECT PLAN
1" = 600.0'

OVERALL SITE PLAN

CONTRACT NO. 1
 COLLIN COUNTY, TX
 N CUSTER RD
 WATER TREATMENT PLANT

NO.	DATE	DESCRIPTION	BY	CHKD.
1	08/10/18	ISSUED FOR PERMITS	JL	JK
2	08/10/18	ISSUED FOR PERMITS	JL	JK
3	08/10/18	ISSUED FOR PERMITS	JL	JK

SHEET NO
03



**PERKINS
 ENGINEERING
 CONSULTANTS, INC.**
 TBPE REGISTRATION NO F-8699

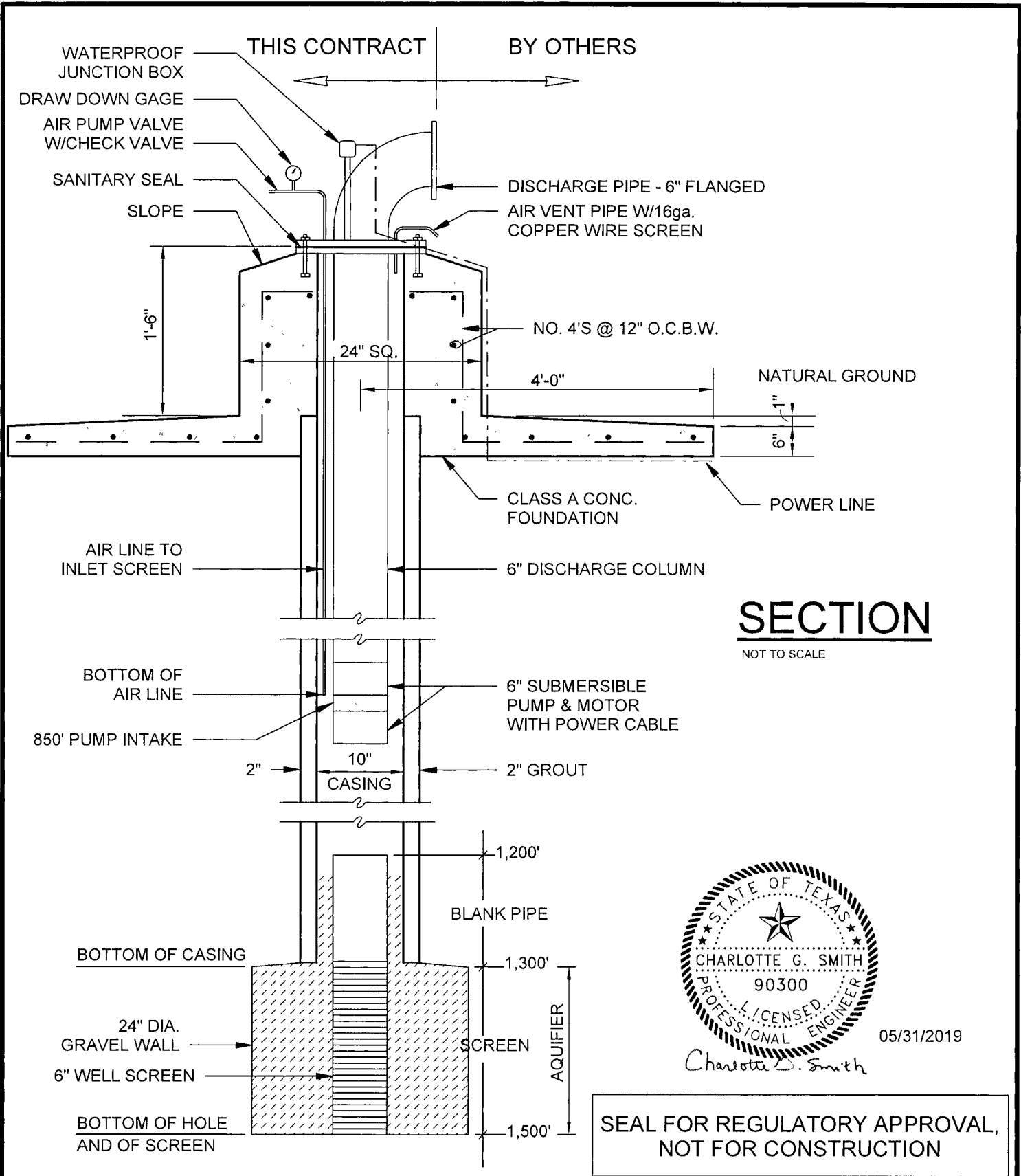
WATER WELL No.1 DETAIL

N CUSTER RD
 WATER TREATMENT PLANT
 CONTRACT No.1 COLLIN COUNTY, TEXAS

Date
 11.30.2018

PEJ No.
 WES 18-001

SHEET No. **04**



**PERKINS
 ENGINEERING
 CONSULTANTS, INC.**
 TBPE REGISTRATION NO F-8699

WATER WELL No.2 DETAIL

N CUSTER RD
 WATER TREATMENT PLANT

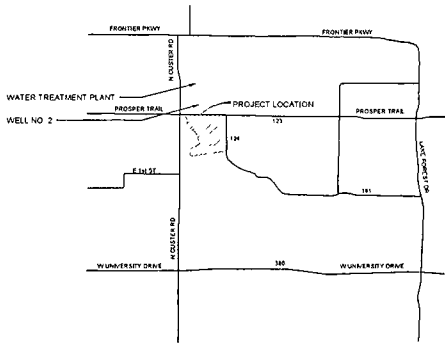
CONTRACT No.1 COLLIN COUNTY, TEXAS

Date
 11.30.2018

PEJ No.
 WES 18-001

SHEET No. **05**

NORTH CUSTER ROAD WATER TREATMENT PLANT



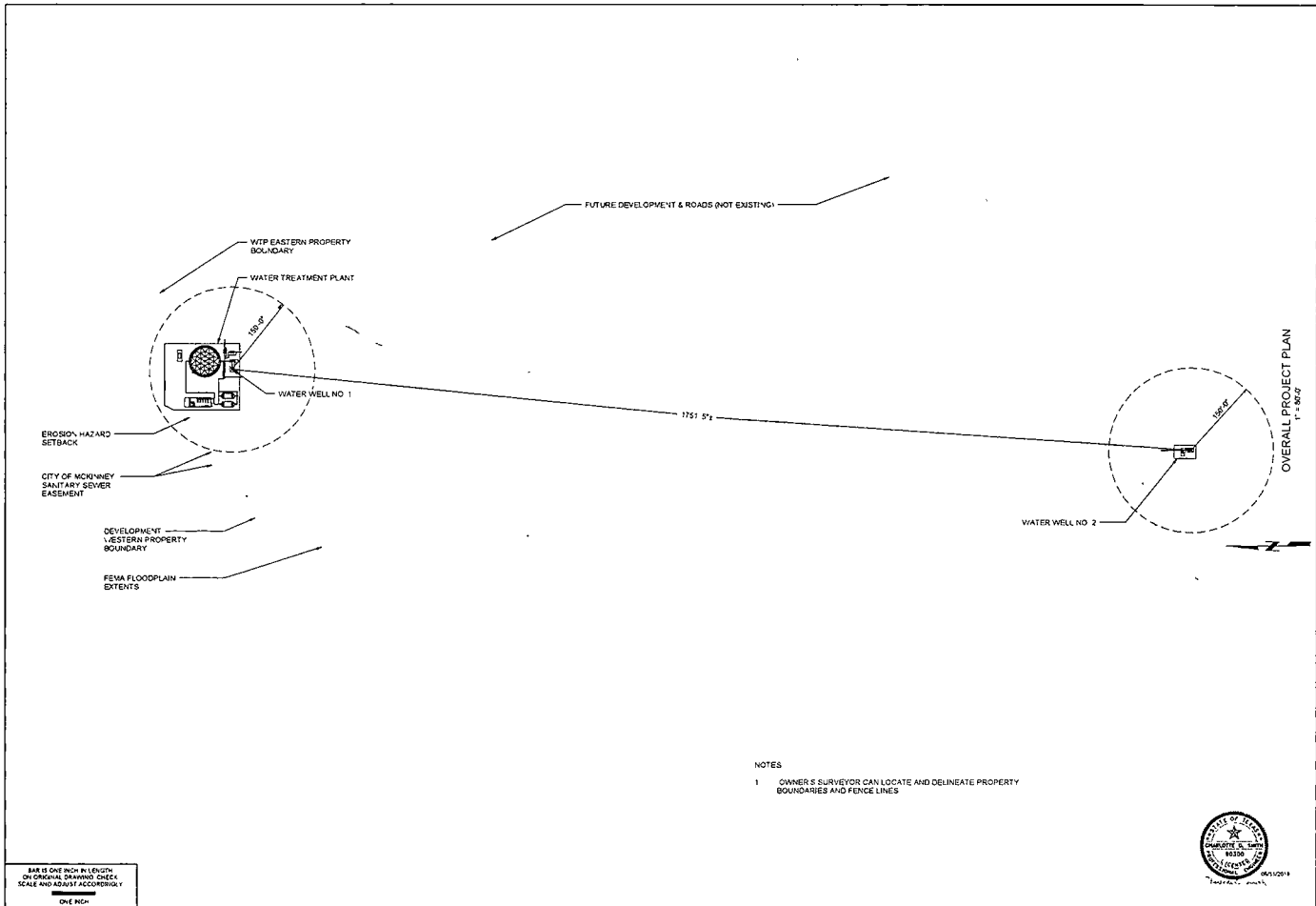
CONTRACT No. 2
COLLIN COUNTY, TEXAS
MAY 2019



SHEET INDEX

- 1 COVER
- 2 GENERAL NOTES
- 3 OVERALL PROJECT PLAN
- 4 PROCESS FLOW DIAGRAM
- 5 WELL NO. 1 PLAN AND SECTIONS
- 6 WELL NO. 2 PLAN AND SECTION
- 7 WATER TREATMENT PLANT SITE PLAN
- 8 GROUND STORAGE TANK PLAN, SECTION AND DETAILS
- 9 PUMP BUILDING PLAN
- 10 PUMP BUILDING SECTION AND DETAILS
- 11 PRESSURE TANKS PLAN AND SECTIONS
- 12 ISOMETRIC VIEW
- 13 DETAILS
- 14 DETAILS
- 15 DETAILS
- 16 DETAILS
- A 1 GENERAL NOTES AND INFORMATION
- A 2 FOUNDATION NOTES AND INFORMATION
- A 3 FLOOR AND DIMENSIONAL CONTROL PLANS
- A 4 FOUNDATION ELEVATIONS AND SECTIONS
- E-1 ELECTRICAL GENERAL NOTES
- E 2 ELECTRICAL LEGEND
- E-3 PROJECT OVERALL ELECTRICAL PLAN
- E-4 WTP AND WELL NO. 1 ELECTRICAL PLAN
- E-5 PUMP BUILDING AND WELL NO. 2 ELECTRICAL PLAN
- E-6 POWER ONE LINE
- E-7 PANEL DETAILS
- E-8 CONTROL ONE LINE
- E-9 ELECTRICAL DETAILS
- E-10 GENERATOR NOTES & DETAILS
- E-11 INSTRUMENTATION NOTES & DETAILS
- E-12 PANEL SCHEDULES





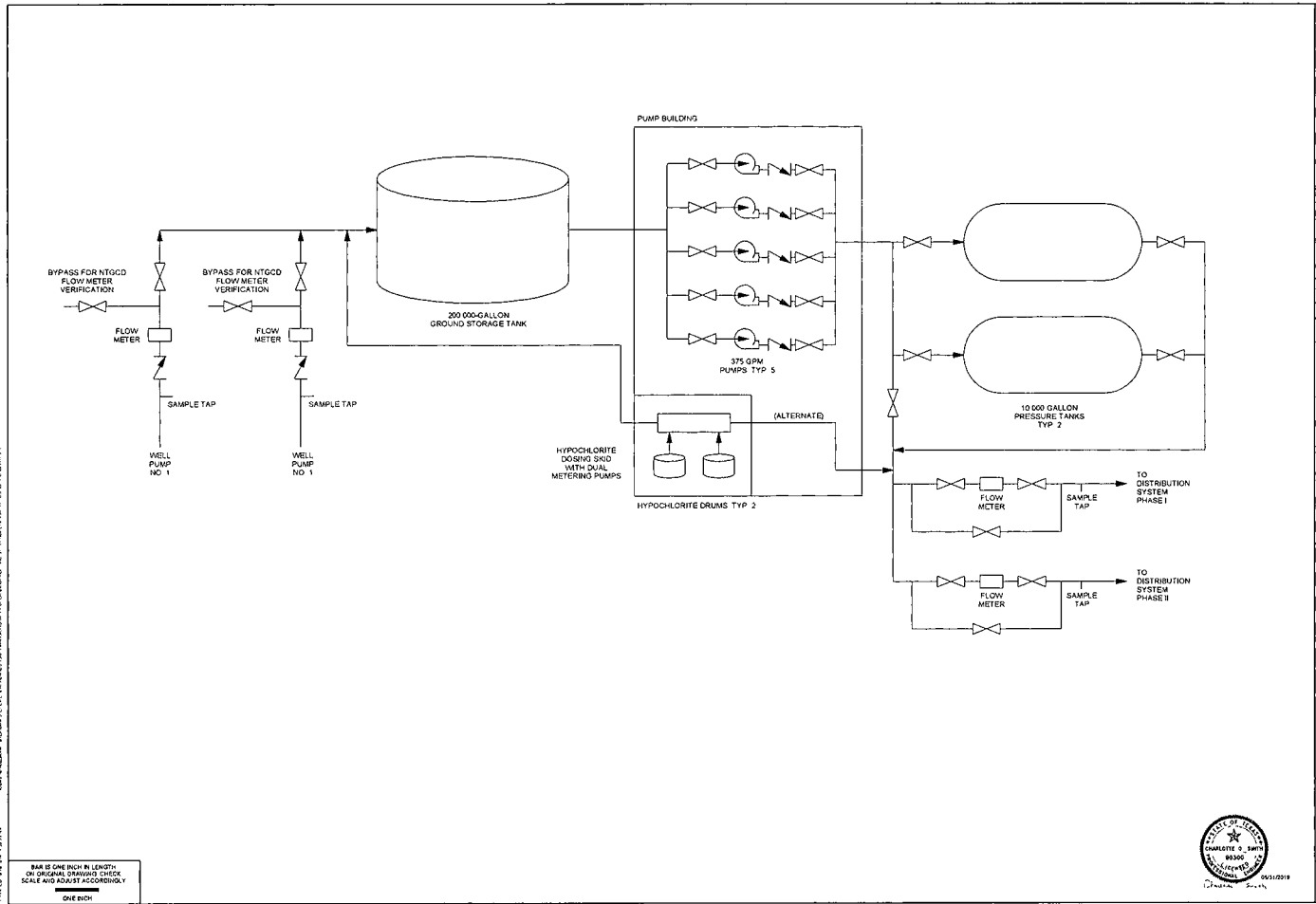
NO.	DATE	DESCRIPTION

OVERALL PROJECT PLAN
1" = 500'

CONTRACT NO. 2
COLLIN COUNTY, TX
N CUSTER RD
WATER TREATMENT PLANT

DATE	BY	CHKD	APP'D

SHEET NO
3



PERKINS
ENGINEERING
CONSULTANTS, INC.
10000 W. 10th Street
Dallas, Texas 75243

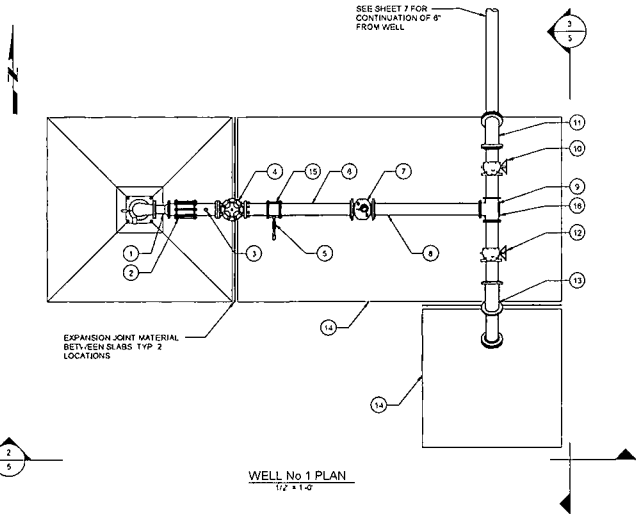
PROCESS FLOW DIAGRAM

CONTRACT NO. 2
COLLIN COUNTY, TX
N. CLUSTERS RD.
WATER TREATMENT PLANT

DATE	BY	CHKD	APP'D	REV	DATE

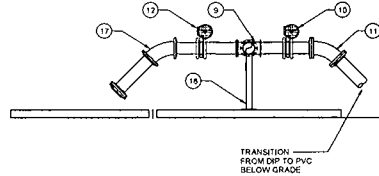
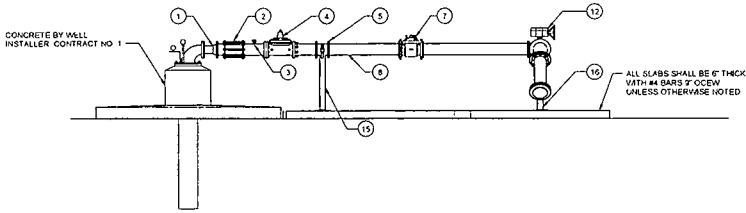
SHEET NO
4





LEGEND

- (1) 4\"/>
 - (2) FLANGE COUPLING ADAPTER
 - (3) AIR VALVE FOR WELL SERVICE WITH ISOLATION VALVE
 - (4) 6\"/>
 - (5) 6\"/>
 - (6) MIN 3\"/>
 - (7) WATER METER
 - (8) MIN 1\"/>
 - (9) 6\"/>
 - (10) 6\"/>
 - (11) 6\"/>
 - (12) 6\"/>
 - (13) 6\"/>
 - (14) SPLASH PAD
 - (15) ADJ PIPE SUPPORT
 - (16) ADJ PIPE SUPPORT
 - (17) 6\"/>
- ALL ABOVE GRADE PIPING SHALL BE HEAT TRACED INSULATED AND JACKETED PER SPECIFICATIONS



ALL IS ONE INCH IN LENGTH ON ORIGINAL DRAWING CHECK SCALE AND ADJUST ACCORDINGLY ONE INCH

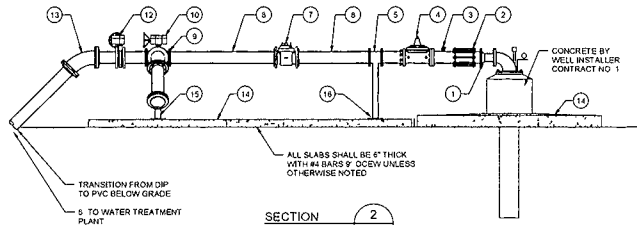


PERKINS ENGINEERING CONSULTANTS, INC.
1445 REGISTRATION AVE

WELL NO 1 PLAN AND SECTIONS									
CONTRACT NO 2 COLLIN COUNTY, TX N CUSTER RD WATER TREATMENT PLANT									
SHEET NO									
01									

NOTES

- 1 PROVIDE TRANSFORMER PAD AT WELL NO 2 MEETING ONCOR REQUIREMENTS AND WIRING AND CONDUIT IN BETWEEN TRANSFORMERS AND EQUIPMENT WITHIN PERIMETER FENCING
- 2 PROVIDE GPRS COMMUNICATIONS FOR WELL PUMP AND METER PER E.M.C. REQUIREMENTS
- 3 WTP CONTRACTOR SHALL BE RESPONSIBLE FOR CONTOURING ROADWAYS UNDERGROUND PIPING AND OTHER WORK DESCRIBED WITHIN FENCING AND UP TO TWO FEET OUTSIDE OF EACH FENCE

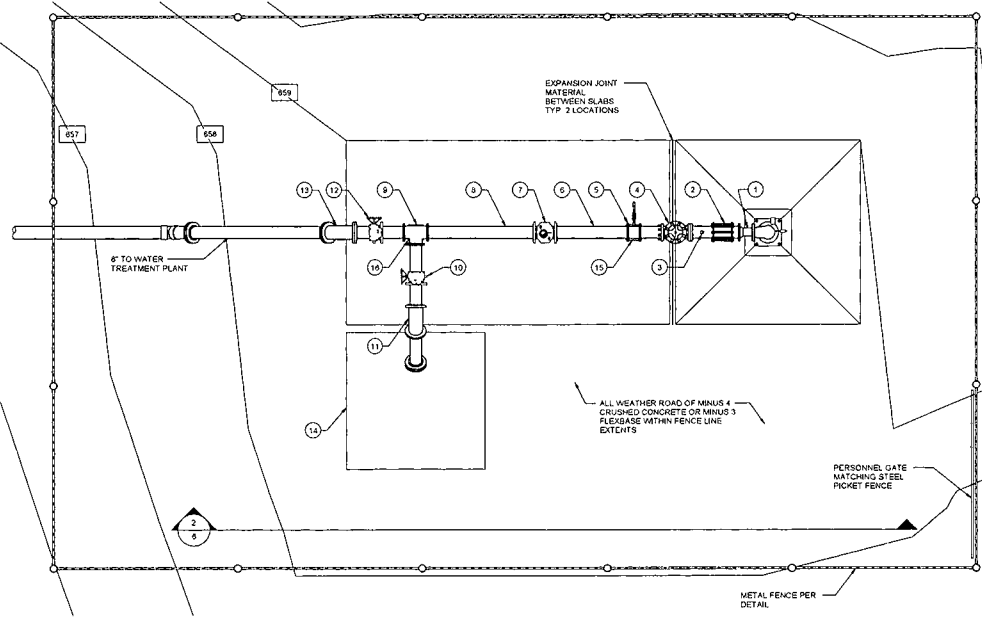


SECTION 2
SCALE: 1/2" = 1'-0"

LEGEND

- (1) 4" x 6" ECCENTRIC REDUCER
- (2) FLANGE COUPLING ADAPTER
- (3) AIR VALVE FOR WELL SERVICE WITH ISOLATION VALVE
- (4) 6" CHECK VALVE
- (5) 6" TEE WITH 3/4" SAMPLE COCK ASSEMBLY
- (6) MN 3" OF STRAIGHT PIPE NO FITTINGS
- (7) WATER METER
- (8) MN 1" OF STRAIGHT PIPE NO FITTINGS
- (9) 4" x 6" TEE
- (10) 6" GATE VALVE
- (11) 6" 45° BEND
- (12) 6" GATE VALVE ASSEMBLY
- (13) 6" 45° BEND
- (14) SPLASH PAD
- (15) ADJ PIPE SUPPORT
- (16) ADJ PIPE SUPPORT
- (17) 6" 45° BEND

ALL ABOVE GRADE PIPING SHALL BE HEAT TRACED INSULATED AND JACKETED PER SPECIFICATIONS.



WELL No 2 PLAN
SCALE: 1/2" = 1'-0"

BAR IS ONE INCH IN LENGTH
ON ORIGINAL DRAWING CHECK
SCALE AND ADJUST ACCORDINGLY
ONE INCH

PERKINS ENGINEERING INC.
1100 GARDNER ROAD
DALLAS, TEXAS 75242

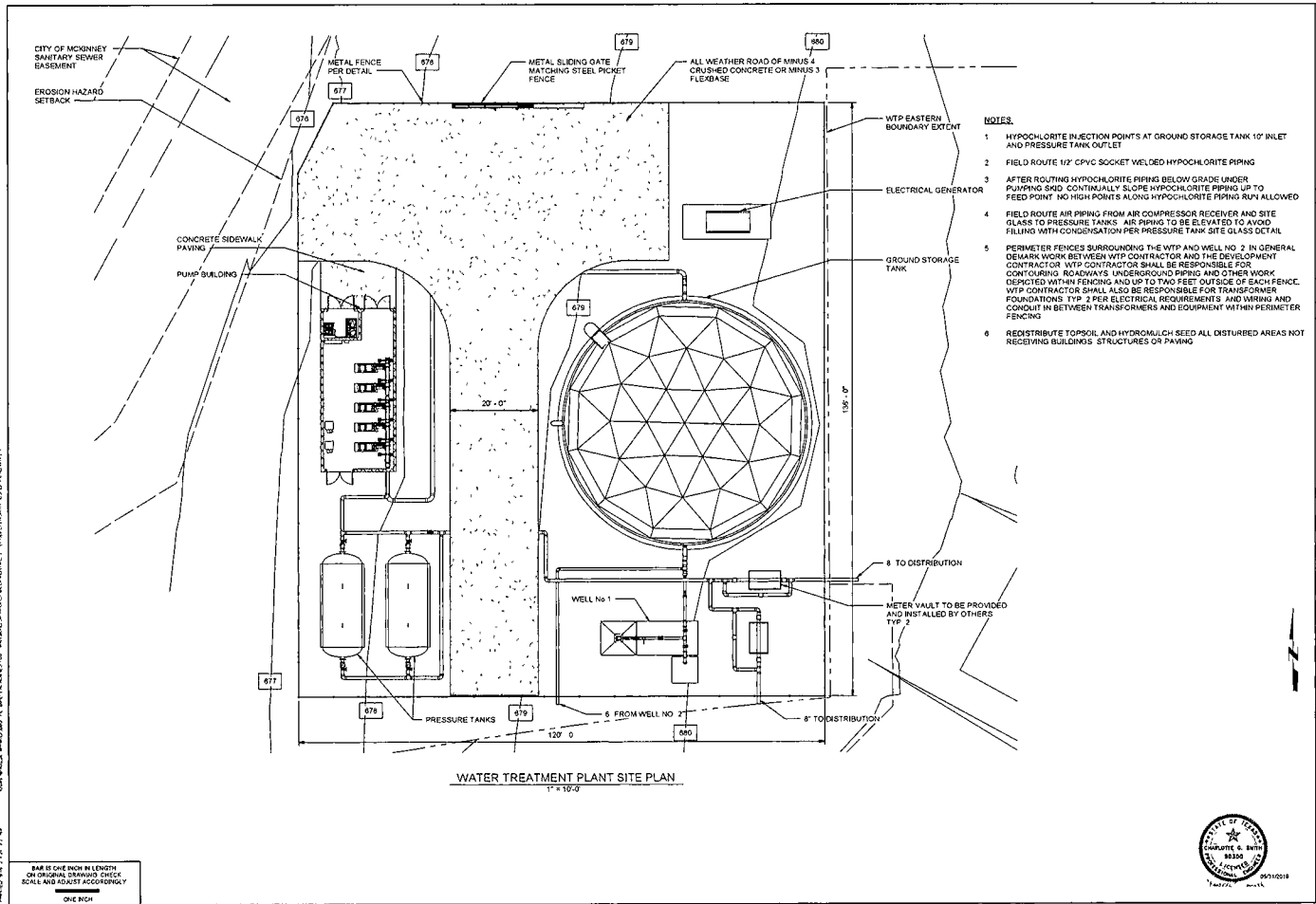
WELL NO 2 PLAN AND SECTION

CONTRACT NO 2
COLLIN COUNTY, TX
N. CUSTER RD
WATER TREATMENT PLANT

NO. 2020-01	DATE	BY	APP. BY	REV. NO.	REV. DATE	REV. BY	REV. DATE

SHEET NO 6





- NOTES:**
- HYPOCHLORITE INJECTION POINTS AT GROUND STORAGE TANK 10' INLET AND PRESSURE TANK OUTLET
 - FIELD ROUTE 1 1/2" CPVC SOCKET WELDED HYPOCHLORITE PIPING
 - AFTER ROUTING HYPOCHLORITE PIPING BELOW GRADE UNDER PUMPING SAND CONTINUALLY SLOPE HYPOCHLORITE PIPING UP TO FEED POINT NO HIGH POINTS ALONG HYPOCHLORITE PIPING RUN ALLOWED
 - FIELD ROUTE AIR PIPING FROM AIR COMPRESSOR RECEIVER AND SITE GLASS TO PRESSURE TANKS AIR PIPING TO BE ELEVATED TO AVOID FILLING WITH CONDENSATION PER PRESSURE TANK SITE GLASS DETAIL
 - PERIMETER FENCES SURROUNDING THE WTP AND WELL NO. 2 IN GENERAL DEMARK WORK BETWEEN WTP CONTRACTOR AND THE DEVELOPMENT CONTRACTOR WTP CONTRACTOR SHALL BE RESPONSIBLE FOR CONTOURING ROADWAYS UNDERGROUND PIPING AND OTHER WORK DEPOSITED WITHIN FENCING AND UP TO TWO FEET OUTSIDE OF EACH FENCE. WTP CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR TRANSFORMER FOUNDATIONS TYP 2 PER ELECTRICAL REQUIREMENTS AND WIRING AND CONDUIT IN BETWEEN TRANSFORMERS AND EQUIPMENT WITHIN PERIMETER FENCING
 - REDISTRIBUTE TOPSOIL AND HYDROMULCH SEED ALL DISTURBED AREAS NOT RECEIVING BUILDINGS STRUCTURES OR PAVING

WATER TREATMENT PLANT SITE PLAN
1" = 10'-0"

BAR IS ONE INCH IN LENGTH
ON ORIGINAL DRAWING CHECK
SCALE AND ROSET ACCEPTANCE
ONE INCH



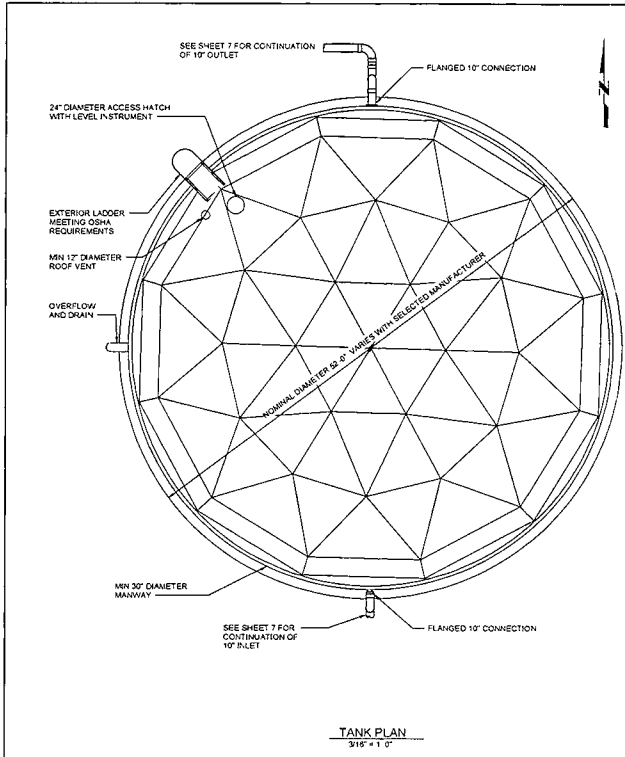
PERKINS ENGINEERING & SURVEYING, INC.
1401 W. WILSON ROAD
DALLAS, TEXAS 75243

WATER TREATMENT PLANT
SITE PLAN

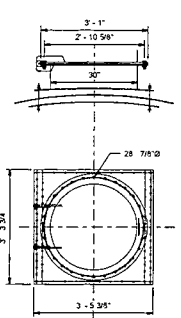
CONTRACT NO. 2
COLLIN COUNTY, TX
N. CUSTER RD.
WATER TREATMENT PLANT

DATE	BY	CHECKED	APPROVED	SCALE

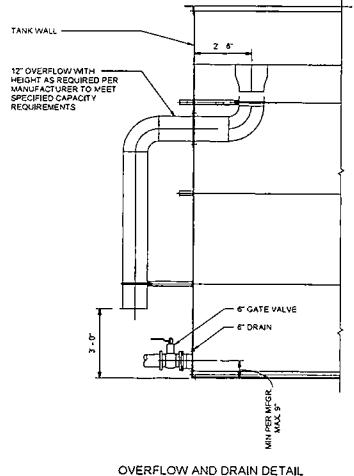
SHEET NO
7



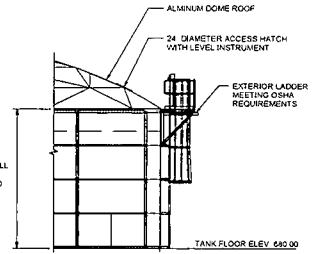
TANK PLAN
316" x 110"



36" DIAMETER SHELL MANWAY
DETAIL



OVERFLOW AND DRAIN DETAIL



SIDE WALL HEIGHT SHALL NOT EXCEED 20'-0" VARIES WITH SELECTED MANUFACTURER

REPRESENTATIVE SECTION

- NOTES**
- SEE SECTION 43.41.11 FOR TANK FOUNDATION AND OTHER DESIGN REQUIREMENTS

BAR IS ONE INCH IN LENGTH, BY ORIGINAL DRAWING CHECK SCALE AND ADJUST ACCORDINGLY



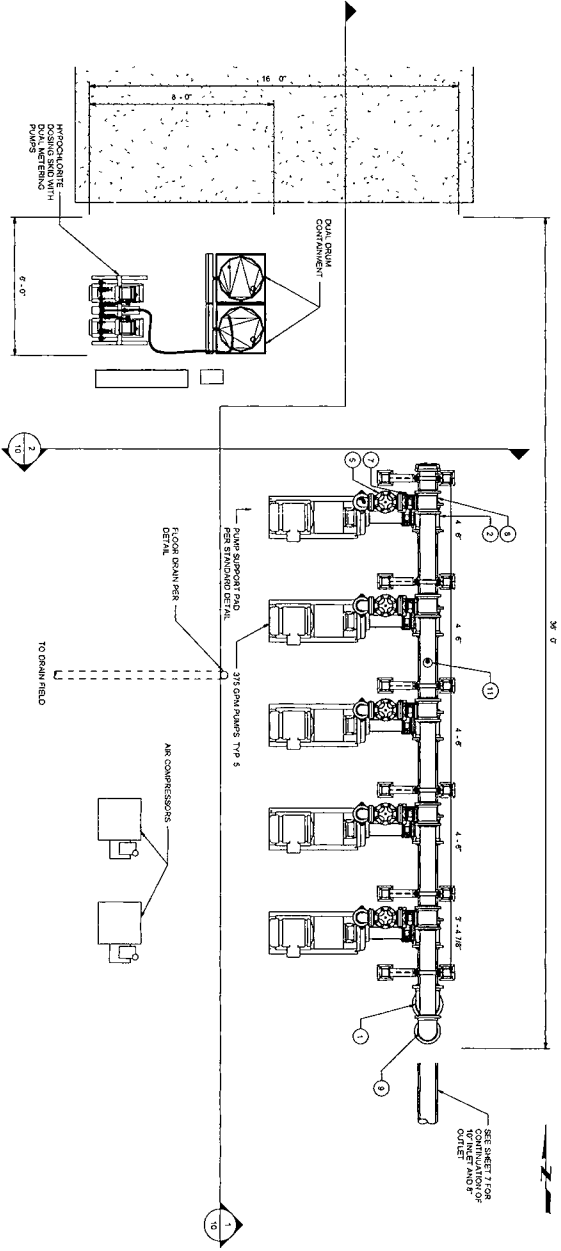
PERKINS ENGINEERING CONSULTANTS, INC.
THE REGISTERED FIRM

**GROUND STORAGE TANK PLAN,
SECTION AND DETAILS**

CONTRACT NO. 2
COLLIN COUNTY, TX
N CUSTER RD
WATER TREATMENT PLANT

DATE	BY	CHECKED	SCALE	SHEET NO.	TOTAL SHEETS
04-23-2018	CSE	AC	AS SHOWN	8	12

SHEET NO. 8



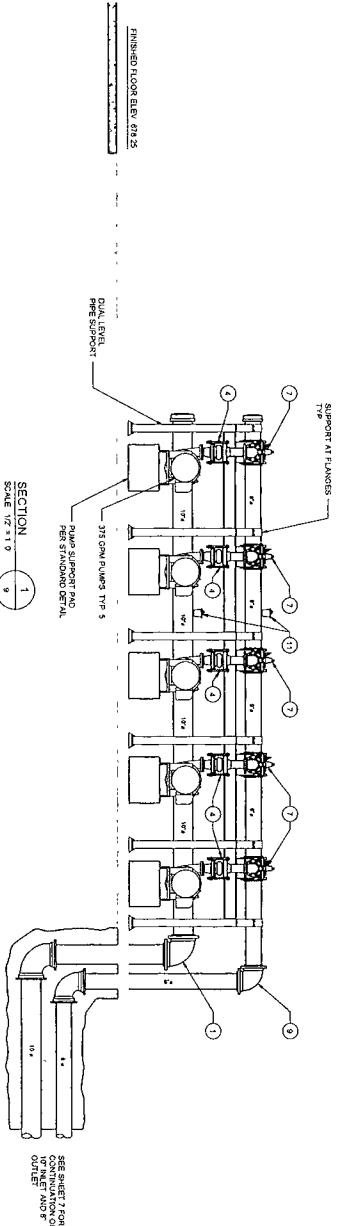
PUMP BUILDING PLAN
1/2" = 1'-0"

- LEGEND:**
- (1) 1/2" x 1/2" RIBBON TYPE 2
 - (2) 10 x 6 RIBBON TYPE 2
 - (3) 8 GATE VALVE TYPE 5
 - (4) 6 GATE VALVE TYPE 5
 - (5) 4 GATE VALVE TYPE 5
 - (6) 4 GATE VALVE TYPE 5
 - (7) 4 GATE VALVE TYPE 5
 - (8) 6 x 6 RIBBON TYPE 2
 - (9) 6 x 6 RIBBON TYPE 2
 - (10) 6 x 6 RIBBON TYPE 2
 - (11) 6 x 6 RIBBON TYPE 2
 - (12) 6 x 6 RIBBON TYPE 2
 - (13) 6 x 6 RIBBON TYPE 2
 - (14) 6 x 6 RIBBON TYPE 2
 - (15) 6 x 6 RIBBON TYPE 2
 - (16) 6 x 6 RIBBON TYPE 2
 - (17) 6 x 6 RIBBON TYPE 2
 - (18) 6 x 6 RIBBON TYPE 2
 - (19) 6 x 6 RIBBON TYPE 2
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 - (93) 6 x 6 RIBBON TYPE 2
 - (94) 6 x 6 RIBBON TYPE 2
 - (95) 6 x 6 RIBBON TYPE 2
 - (96) 6 x 6 RIBBON TYPE 2
 - (97) 6 x 6 RIBBON TYPE 2
 - (98) 6 x 6 RIBBON TYPE 2
 - (99) 6 x 6 RIBBON TYPE 2
 - (100) 6 x 6 RIBBON TYPE 2
- INCLUDE REDUCER AT PUMP DISCHARGE IF NEEDED TYPE 5

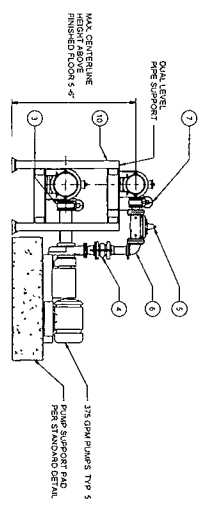
ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS AND THE MICHIGAN DEPARTMENT OF HEALTH REGULATIONS.



SHEET NO 9	DATE 05/11/10	CONTRACT NO 2 COLLIN COUNTY, TX	PUMP BUILDING PLAN	PERKINS ENGINEERING CONSULTANTS, INC. <small>THE PROFESSIONAL ENGINEERS</small>
	BY AZ	N CUSTER RD WATER TREATMENT PLANT		
SCALE AS SHOWN	PROJECT NO WES 10-001			



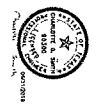
SECTION 1
SCALE 1/2" = 1'-0"



SECTION 2
SCALE 1/2" = 1'-0"

- LEGEND**
- (1) 18 90 BRND TYP 2
 - (2) 8 3/4\"/>
 - (3) 4\"/>
 - (4) 40 BRND TYP 3
 - (5) 4 X 4 TEE TYP 5
 - (6) 4 X 4 TEE TYP 5
 - (7) DUAL LEVEL PIPE SUPPORT FOR STD DETAIL TYP 8
 - (8) 4\"/>
 - (9) 4\"/>
 - (10) DUAL LEVEL PIPE SUPPORT FOR STD DETAIL TYP 8 WITH DRAIN FINISHED TO FLOOR GRADE IF NEEDED TYP 9)
 - (11) INCLUDE REDUCER AT PUMP DISCHARGE IF NEEDED TYP 9)

DATE: 06-20-11
 DRAWN BY: JAC
 CHECKED BY: JAC
 SCALE: AS SHOWN



NO.	DATE	BY	APP'D BY

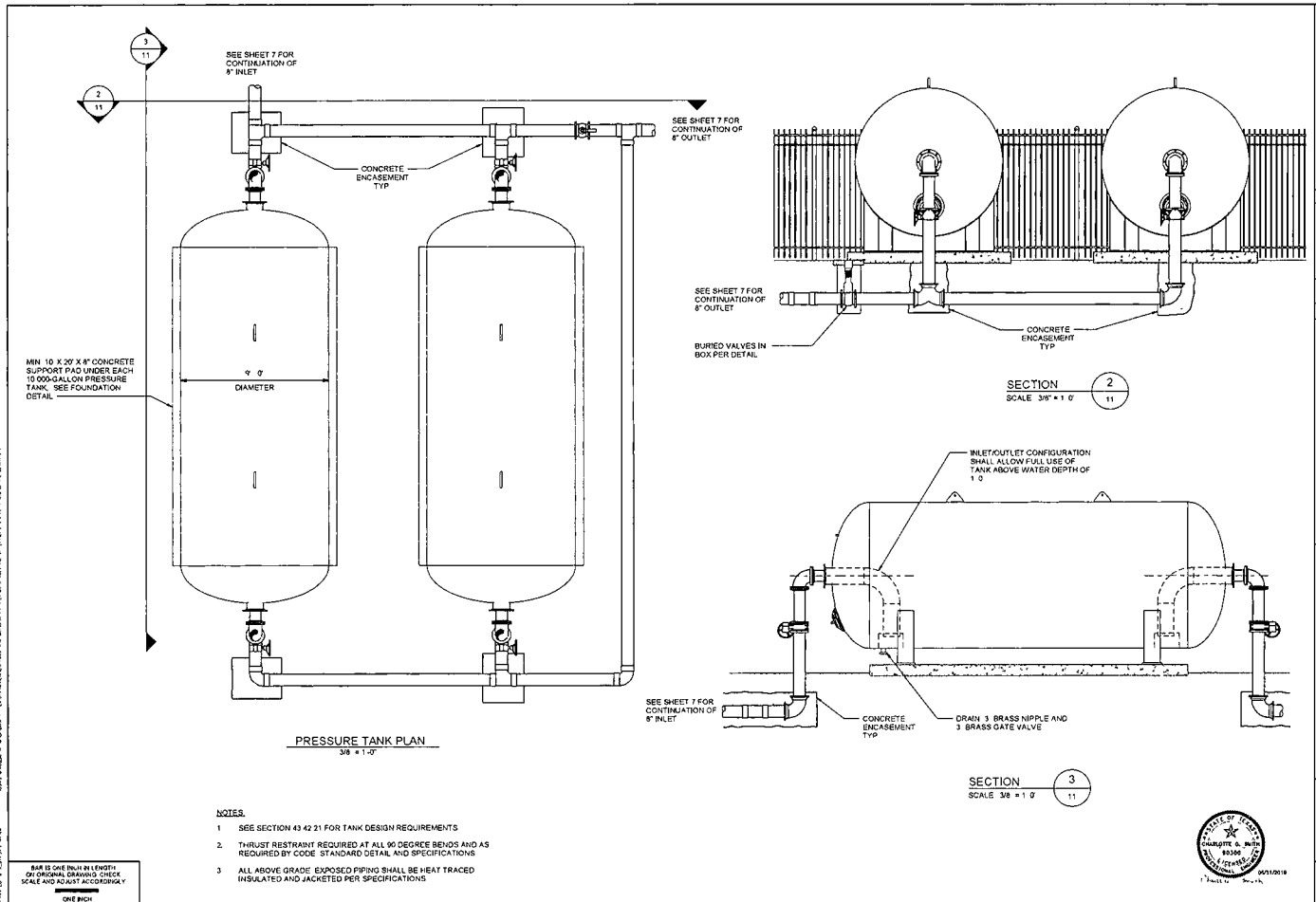
PERKINS ENGINEERING CONSULTANTS, INC.
 LICENSE NO. 10779

PUMP BUILDING SECTION AND DETAILS

CONTRACT NO 2
 COLLIN COUNTY, TX

N CUSTER RD
 WATER TREATMENT PLANT

DATE	06-20-11
DRAWN BY	JAC
CHECKED BY	JAC
SCALE	AS SHOWN
SHEET NO.	10



PRESSURE TANK PLAN
3/8" = 1'-0"

SECTION 2
SCALE 3/8" = 1'-0"

SECTION 3
SCALE 3/8" = 1'-0"

- NOTES.**
- 1 SEE SECTION 43 42 21 FOR TANK DESIGN REQUIREMENTS
 - 2 THRUST RESTRAINT REQUIRED AT ALL 90 DEGREE BENDS AND AS REQUIRED BY CODE STANDARD DETAIL AND SPECIFICATIONS
 - 3 ALL ABOVE GRADE EXPOSED PIPING SHALL BE HEAT TRACED INSULATED AND JACKETED PER SPECIFICATIONS

BAR IS ONE INCH IN LENGTH
ON ORIGINAL DRAWING CHECK
SCALE AND LOCATE ACCORDINGLY
ONE INCH



FERKINS ENGINEERING CONSULTANTS, INC.
1000 W. UNIVERSITY BLVD.
DALLAS, TEXAS 75201

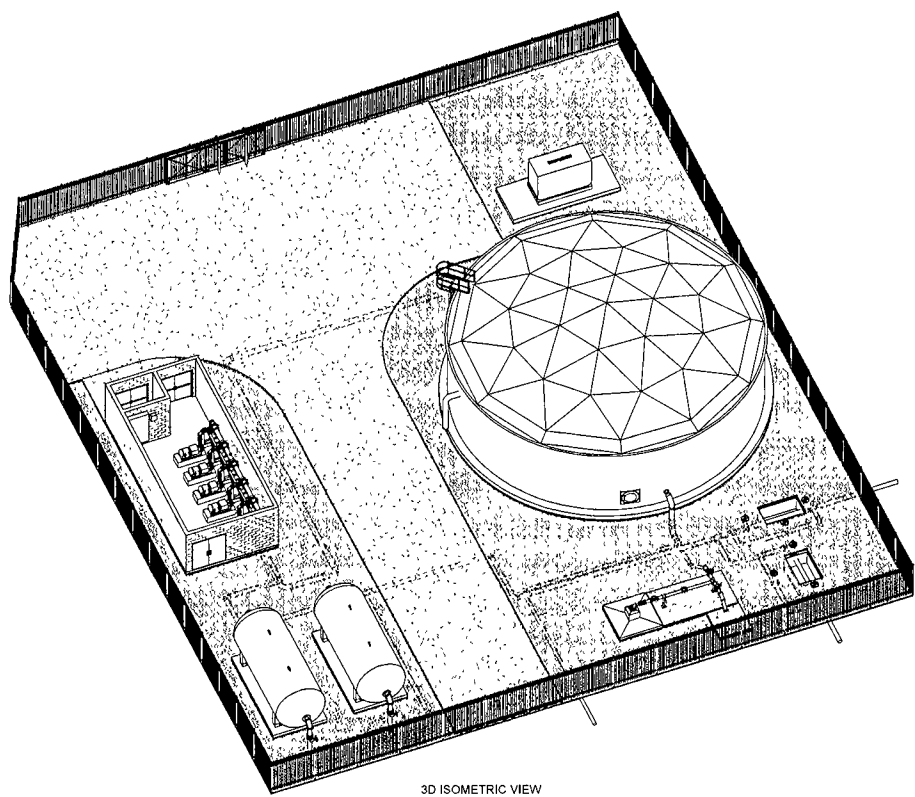
PRESSURE TANKS PLAN AND SECTIONS

CONTRACT NO. 2
COLLIN COUNTY TX
N. CLUSTER RD.
WATER TREATMENT PLANT

NO.	DATE	BY	CHKD.	REV.	DESC.

SHEET NO 11

DATE PLOTTED: 05/11/2016 10:58:11 AM




3D ISOMETRIC VIEW

BAR IS ONE INCH IN LENGTH
ON ORIGINAL DRAWING, CHECK
SCALE AND HEIGHT ACCORDINGLY

ONE INCH

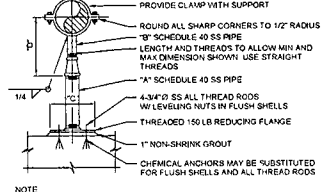


05/11/2016

 PERKINS ENGINEERING CONSULTANTS, INC. <small>1100 EAST 19TH AVENUE, SUITE 1000, DENVER, CO 80202</small>		DATE	05/11/2016
		TIME	10:58:11 AM
CONTRACT NO. 2 COLLIN COUNTY, TX N. CLUSTER RD. WATER TREATMENT PLANT		SHEET NO. 12	

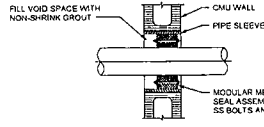
SIZE OF SUPPORTED PIPE	PIPE SIZE		"C"	
	2"	3"	MINIMUM	MAXIMUM
2 1/2	2 1/2	1 1/2	9	13
3	2 1/2	1 1/2	9	13 1/2
3 1/2	2 1/2	1 1/2	9	13 1/2
4	3	2 1/2	9	14
5	3	2 1/2	9	14 1/2
6	3	2 1/2	9	15 1/2
8	3	2 1/2	9	16 1/2
10	3	2 1/2	9	17 1/2
12	3	2 1/2	9	18 1/2
14	4	3	11	20 1/2
16	4	3	11	21 1/2
18	4	3	11	22 1/2
20	4	3	11	23 1/2
24	4	3	11	25 1/2
28	4	3	11	27 1/2
32	4	3	11	29 1/2
36	4	3	11	31 1/2

* USE 2 1/2" SUPPORTS FOR PIPES LESS THAN 2 1/2"

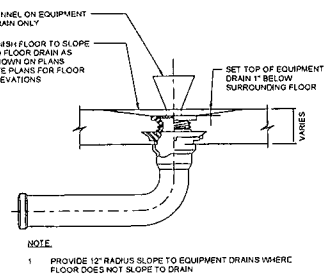


NOTE
1 ALL MATERIAL 316 SS.

ADJUSTABLE PIPE SADDLE SUPPORT
N T S

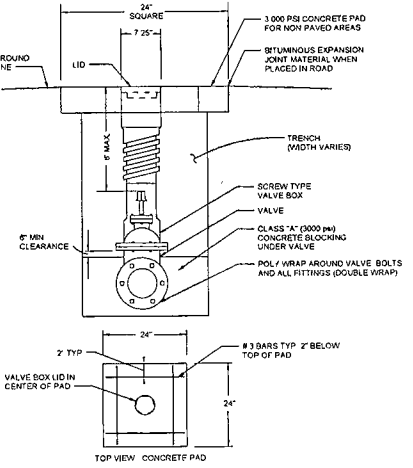


CMU WALL PENETRATION DETAIL
N T S



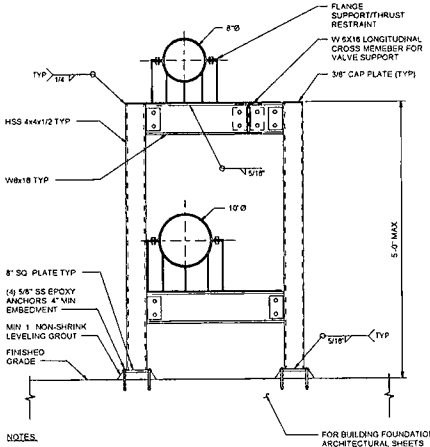
NOTE
1 PROVIDE 12" RADIUS SLOPE TO EQUIPMENT DRAIN'S WHERE FLOOR DOES NOT SLOPE TO DRAIN

FLOOR DRAIN OR EQUIP DRAIN
N T S



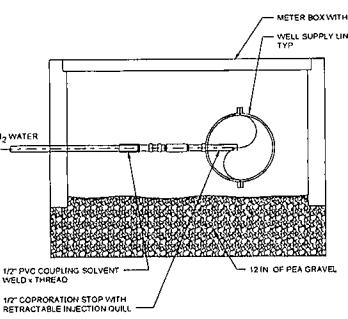
- NOTES
- 1 VALVES WITH OPERATING NUTS GREATER THAN 8" BELOW GROUND SHALL INCLUDE 1/4" SOLID STEM EXTENSION WITH ROCK GUARD TO 12" BELOW TOP OF BOX. EXTENSION OPERATING NUT SHALL BE SAME SIZE AS VALVE OPERATING NUT
 - 2 VALVES WITH OPERATING NUTS GREATER THAN 8" BELOW GROUND SHALL BE INSTALLED WITH DUCTILE IRON PIPE BELL OVER VALVE AND 24" x 36" SCREW TYPE VALVE BOX FOR TOP SECTION. ONLY ONE VALVE BOX SHALL BE USED PER INSTALLATION
 - 3 ONLY TYLER VALVE BOX AND LID OR APPROVED EQUAL SHALL BE USED
 - 4 UNLESS OTHERWISE NOTED ON PLANS, SET VALVE AND BOX AT CURB RETURN
 - 5 VALVE BOXES AND PADS SHALL BE INSTALLED AT FINISHED GRADE. SLOPE CONCRETE PAD SURFACE SLIGHTLY AWAY FROM LID
 - 6 PADS ARE FOR NON-PAVED AREAS ONLY. BROOM FINISH ALL PADS
 - 7 PROVIDE A LABEL ON EACH VALVE BOX INDICATING THE SERVICE

VALVE BOX DETAIL
N T S



NOTES
1 STRUCTURAL MEMBERS SHALL BE PAINTED OR GALVANIZED AT CONTRACTOR'S OPTION

DUAL LEVEL PIPE SUPPORT
N T S



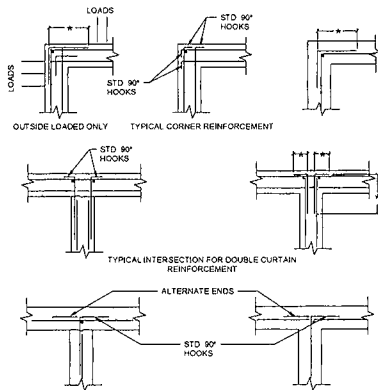
CHLORINE INJECTION
N T S

SCALE IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND DIMENSIONS ACCORDINGLY.
ONE INCH

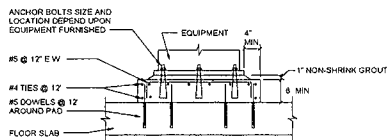


NOTES

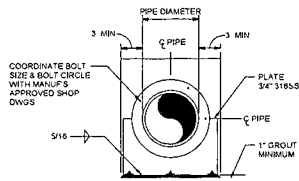
* MINIMUM LAP LENGTH (SEE LAP SPLICE & EMBEDMENT SCHEDULE)
 ALL 90° BENDS AS SHOWN UNLESS OTHERWISE INDICATED ON DESIGN DRAWINGS. INSTALL ADDITIONAL VERTICAL BARS AT HOOKS AS SHOWN



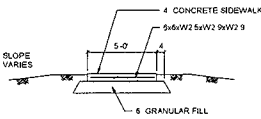
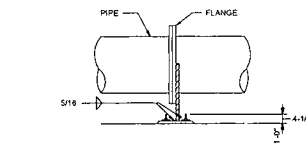
CORNER REINFORCEMENT DETAIL
 N T S



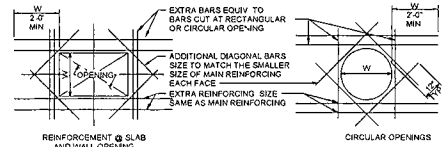
TYPICAL PUMP SUPPORT PAD DETAIL
 N T S



FLANGE SUPPORT/ THRUST RESTRAINT
 N T S



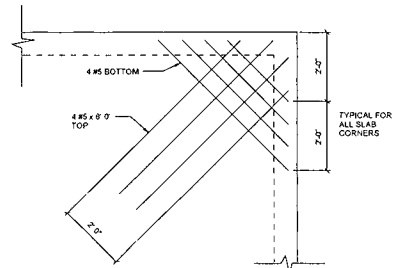
CONCRETE SIDEWALK DETAIL
 N T S



NOTES

- 1 TRANSVERSE REINFORCING NOT SPECIFIED BUT SHALL BE TREATED IN SAME MANNER AS BARS SHOWN
- 2 WIDTH OF OPENING PERPENDICULAR TO BARS CUT FOR CIRCULAR OPENINGS W/ DIAMETER
- 3 SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SLAB AND WALL OPENINGS NOT SPECIFIED ON STRUCTURAL DRAWINGS
- 4 SUPPLEMENTARY REINFORCING MAY BE OMITTED ONLY WHERE OPENING IS FRAMED BY BEAMS OR WALLS
- 5 SUPPLEMENTARY REINFORCING NOT REQUIRED WHEN SPECIFIED REINFORCING IS NOT CUT

ADDITIONAL REINFORCING AROUND OPENINGS
 N T S



TYPICAL REINFORCING @ EXTERIOR CORNER
 N T S

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING CHECK SCALE AND ADJUST ACCORDINGLY



PERKINS ENGINEERING CONSULTANTS, INC.
 1401 WEST 19TH STREET, SUITE 100
 FORT WORTH, TEXAS 76108-1000
 TEL: 817.335.4400
 FAX: 817.335.4401
 WWW.PERCENR.COM

DATE	DESCRIPTION

DETAILS

CONTRACT NO. 2
 COLLIN COUNTY, TX
 N CUSTER RD
 WATER TREATMENT PLANT

NO.	DATE	BY	CHK	APP

SHEET NO
 15

DESIGN CRITERIA	
NOTE	DESCRIPTION
1	THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE.
2	DECK LOADS - ROOF GROUND FLOOR SLAB 20 PSF (NO REDUCTIONS) 100 PSF
	DEAD LOAD - SELF WT OF MATERIALS AND EQUIPMENT GROUND FLOOR LOAD = 3 PSF CALCULATED LOADS DO NOT EXCEED THE UNIFORM ROOF LIVE LOAD PRESSURES ARE CALCULATED FOR A BASIC WIND SPEED OF 115 MPH EXPOSURE C AND IMPORTANCE FACTOR 1.0
	SEISMIC LOADS SEISMIC IMPORTANCE FACTOR - 1.0 (0.5 - 1.0) 1.5 IN. Ø STEEL CLASS 80 5/8 IN. Ø ØL SEISMIC DESIGN CATEGORY - 4, SEISMIC USE GROUP - 3, BASIC SEISMIC - 1.25 IN.

CONCRETE	
NOTE	DESCRIPTION
1	UNLESS OTHERWISE NOTED ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (A.C.I. 318).
2	UNLESS OTHERWISE NOTED ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. IN 28 DAYS.
3	CONCRETE SHALL CONTAIN BETWEEN 2% AND 4% AIR ENTRAINMENT CONCRETE SLUMP SHALL NOT EXCEED 6 INCHES AFTER ADDITION OF HIGH RANGE WATER REDUCER TO 2-4" HIGH SLUMP TO 4-6" SLUMP CONCRETE.
4	UNLESS OTHERWISE NOTED ALL REINFORCING STEEL SHALL BE DEVELOPED BARS CONFORMING TO ASTM A615 GRADE 60 INCLUDING SUPPLEMENTARY REQUIREMENTS.
5	ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
6	WIRE MESH REINFORCING SHALL ONLY BE USED IN THE CURT LAPS (LAP SPACES) OF THE GRIDS WHEN AND BE SECURELY TIED AT EACH END AND ONE.
7	CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" x 45° CHAMFER, UNLESS NOTED OTHERWISE.
8	ALL REINFORCING BAR HOOKS SHOWN ON DRAWINGS SHALL BE A CJ STANDARD BY HOOKS UNLESS NOTED OTHERWISE.
9	ALL SLOTS, SLEEVES AND OTHER ENCASED ITEMS SHALL BE SET BEFORE CONCRETE IS PLACED. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND VENTILATION DRAWINGS FOR SIZE AND LOCATION.
10	UNLESS NOTED OTHERWISE CONCRETE COVER OVER STEEL REINFORCEMENT SHALL CONFORM TO THE MINIMUMS REQUIRED BY CURRENT EDITION OF ACI 318.
11	SUBSTITUTION OF EXPANSION JOINTS FOR ENCASED ANCHORS SHOWN ON DRAWINGS WILL NOT BE PERMITTED.
12	CONCRETE MIX SHALL NOT CONTAIN MORE THAN 35% FLY-ASH CEMENTED STONE, OR OTHER ADJUTIVES NOT APPROVED BY DESIGN TEAM.

SUBGRADE PREPARATION AND FOUNDATION	
NOTE	DESCRIPTION
1	REFER SUBSURFACE EXPLORATION AND REPORT BY RONE ENGINEERING, INC (REPORT NO. 19-22733, DATED AUGUST 2018).
2	THE OWNER SHALL PROVIDE A LICENSED GEOTECHNICAL ENGINEER TO VERIFY THAT THE EXISTING SUBGRADE PREPARATION IS SUFFICIENT AND APPROPRIATE SEASING MATERIAL IS ACHIEVED PRIOR TO SLAB POUR AND FOOTING PLACEMENT.
3	FOUNDATION DESIGN INFORMATION IS AS FOLLOWS: GRADE BEARS SHALL BEAR AT LEAST 24-INCHES BELOW FINISHED FLOOR GRADE.
4	SUBGRADE PREPARATION SHALL BE AS FOLLOWS: A. REMOVE EXISTING PAVING, VEGETATION, INFILL MATERIAL (ORGANIC MATTER, TREE ROOT BALLS, OVERSIZED MATERIALS) AND SOILS. RELOCATE/SAY OUT TREES WITHIN 18 FEET OF THE BUILDING. B. WITHIN THE BUILDING LINES AND TO EXTEND 5 FEET OUTSIDE THE BUILDING LINES, REMOVE ALL TOP SOIL. C. FILL PAD TO FINAL GRADE USING SELECT FILL. SELECT FILL SHALL BE A NON-EXPANSIVE, WELL-GRADED SOIL WITH SUFFICIENT BINDER MATERIAL FOR COMPACTION PURPOSES. THE SOIL SHOULD BE PLACED IN 6" LOOSE LAYS AND COMPACTED TO BETWEEN 95% AND 98% STANDARD PROCTOR MOISTURE CONTENT. D. PLACE A 6 MIL PLASTIC VAPOR BARRIER ATOP THE SELECT FILL.

SUB-BASE

PRIOR TO PLACEMENT OF ANY FILL THE EXPOSED SOIL SUBGRADE SHOULD THEN BE "SCARIFIED" TO A MINIMUM DEPTH OF 8 INCHES AND RECOMPACTED.

THE EXPOSED SOIL SUBGRADE SHOULD BE FURTHER EVALUATED BY PROOF-ROLLING WITH A HEAVY PNEUMATIC TIRE ROLLER LOADED DRUM TRUCK OR SIMILAR EQUIPMENT BEARING APPROXIMATELY 20 TONS TO CHECK FOR FOOTINGS OF SOFT OR LOOSE MATERIAL, HOOKS BENEATH A THIN CRUST OF FIRMER BETTER SOIL.

PROOF-ROLLING PROCEDURES SHOULD BE OBSERVED ROUTINELY BY A PROFESSIONAL ENGINEER OR HIS DESIGNATED REPRESENTATIVE. ANY UNDESIRABLE MATERIAL (ORGANIC MATERIAL, WEI SOFT OR LOOSE SOIL) EXPOSED DURING THE PROOF-ROLL SHOULD BE REMOVED AND REPLACED WITH WELL-COMPACTED MATERIAL.

SELECT FILL AS REQUIRED TO PROVIDE SPECIFIED FINISH FLOOR ELEVATIONS.

MATERIALS USED AS SELECT, NON-EXPANSIVE MATERIAL SHOULD HAVE A LIQUID LIMIT LESS THAN 35, A PLASTICITY INDEX (PI) NOT LESS THAN ABOUT 4 NOR GREATER THAN 15 AND CONTAIN NO MORE THAN 6% FINE SANDS. ORGANIC MATERIALS BY WEIGHT ALL SELECT MATERIAL SHOULD CONTAIN NO DELUSIVE MATERIAL AND SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 2922) AND WITHIN THE RANGE OF 1 PERCENTAGE POINT BELOW TO 2 PERCENTAGE POINTS ABOVE THE MATERIAL'S OPTIMUM MOISTURE CONTENT. NOTE: THE PLASTICITY INDEX AND LIQUID LIMIT OF MATERIAL USED AS SELECT, NON-EXPANSIVE MATERIAL SHOULD BE ROUTINELY VERIFIED DURING PLACEMENT USING LABORATORY TESTS. VISUAL OBSERVATION AND CLASSIFICATION SHOULD NOT BE RELIED UPON TO COMPARE THE MATERIAL TO BE USED AS SELECT, NON-EXPANSIVE MATERIAL SATISFIES THE ABOVE ATTERBERG-UOMI CRITERIA.

FLEXIBLE BASE CAN BE USED AS NON-EXPANSIVE FILL MATERIAL IN THE BUILDING PAD IN LIEU OF SELECT FILL AND CAN BE UTILIZED TO BRITTLE FOUNDATION UNDERLIES. FLEXIBLE BASE SHOULD CONSIST OF MATERIALS SELECTED TO BE AGRICULTURAL OR OTHER MATERIALS THAT ARE NOT MORE THAN 2% FINE SANDS. THE FLEXIBLE BASE SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 2922) AND WITHIN THE RANGE OF 2 PERCENTAGE POINTS BELOW TO 2 PERCENTAGE POINTS ABOVE THE MATERIAL'S OPTIMUM MOISTURE CONTENT.

THE PLASTICITY INDEX AND LIQUID LIMIT OF MATERIAL USED AS SELECT, NON-EXPANSIVE MATERIAL SHOULD BE ROUTINELY VERIFIED DURING PLACEMENT USING LABORATORY TESTS.

VISUAL OBSERVATION AND CLASSIFICATION SHOULD NOT BE RELIED UPON TO VERIFY THE MATERIAL TO BE USED AS SELECT, NON-EXPANSIVE MATERIAL SATISFIES THE ABOVE ATTERBERG-UOMI CRITERIA.

ENGINEERING CONSULTANTS, INC
 1100 W. 14TH ST. SUITE 200
 FORT WORTH, TEXAS 76102
 (817) 733-1100
 www.eciconsultants.com

FOUNDATION NOTES AND INFORMATION

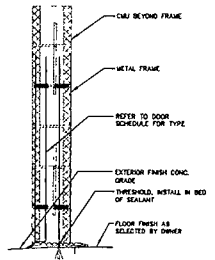
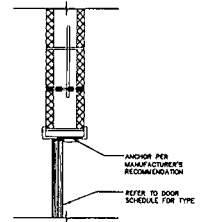
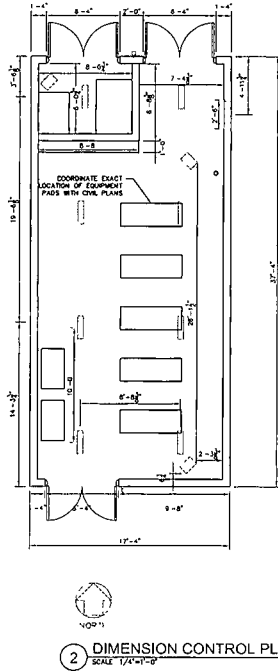
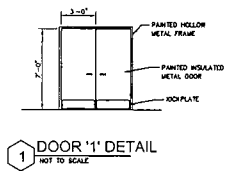
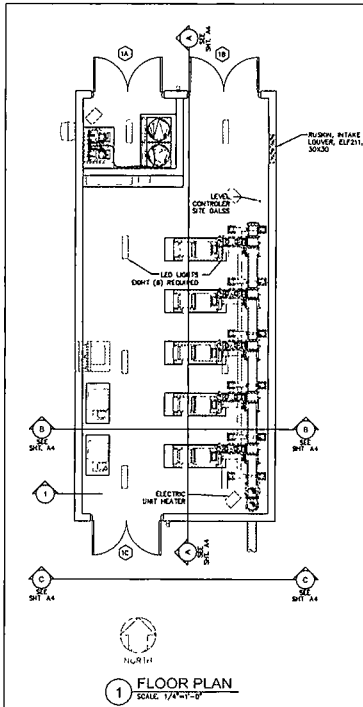
CONTRACT NO. 2
 COLLIN COUNTY, TX
 NORTH CLUSTER ROAD WATER
 TREATMENT PLANT

Date 05/31/2019

DATE: 05/31/19
 TIME: 10:00 AM
 DRAWN: MHP/DAK
 CHECKED: MHP/DAK
 REVISION: SEE DRAWING
 SHEET NO. OF

1/4" = 1' PRINT WILL BE FULL SIZE
 BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.
 ONE INCH

SHEET NO
 A-2



3/11/2017 PRINT WILL BE DUAL SIZE
MARK IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.
ONE INCH

Date: 05/31/2019

PERKINS+SPRING CONSULTANTS, INC.
1100 WEST 19TH STREET, SUITE 200
DALLAS, TEXAS 75202
TEL: 214.424.4400
WWW.PS-C.COM

NO.	DESCRIPTION
1	
2	
3	
4	

FLOOR AND DIMENSION CONTROL PLANS

CONTRACT NO. 2
COLLIN COUNTY, TX
NORTH CUSTER ROAD WATER TREATMENT PLANT

Date:	05/31/2019
Drawn by:	M.H.P./P.S.C.
Checked by:	J.D.
Scale:	AS SHOWN
Sheet No.:	OF

SHEET NO. A-3

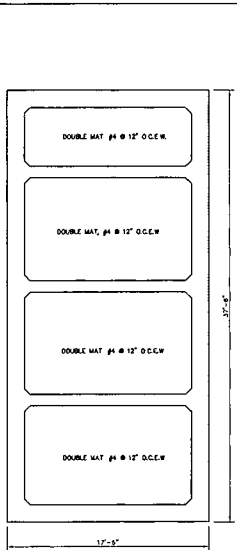
NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		

FOUNDATION,
ELEVATIONS,
AND SECTIONS

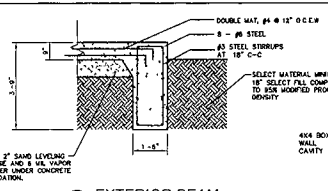
CONTRACT NO. 2
COLLIN COUNTY, TX
NORTH CUSTER ROAD WATER
TREATMENT PLANT

DATE	05/31/2019
DESIGNED BY	MM
CHECKED BY	MM
DATE	
SCALE	AS SHOWN

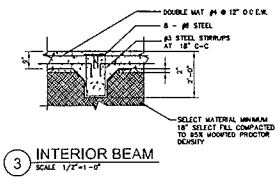
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A-4



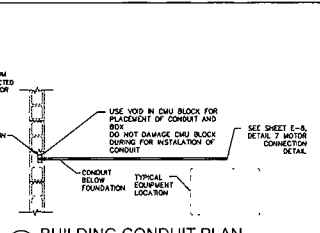
1 FOUNDATION
SCALE: 1/4"=1'-0"



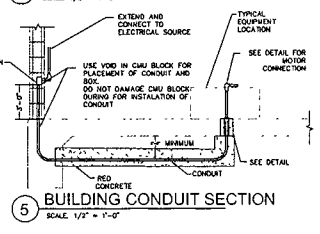
2 EXTERIOR BEAM
SCALE: 1/2"=1'-0"



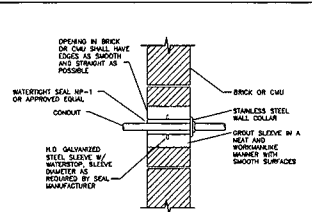
3 INTERIOR BEAM
SCALE: 1/2"=1'-0"



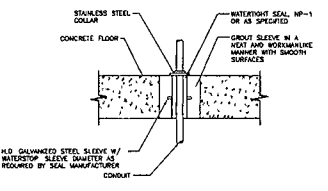
4 BUILDING CONDUIT PLAN
SCALE: 1/2" = 1'-0"



5 BUILDING CONDUIT SECTION
SCALE: 1/2" = 1'-0"



6 WALL CONCEALED CONDUIT INSTALLATION
SCALE: NONE



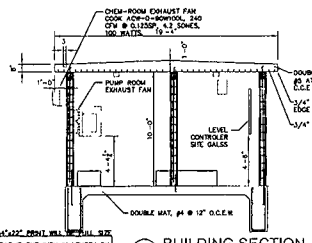
7 FLOOR CONCEALED CONDUIT INSTALLATION
SCALE: NONE

DOOR & WINDOW SCHEDULE										
DOOR NO	WIDTH	HEIGHT	THICK	TYPE	DESCRIPTION	FRAME	GLASS	HEADER	DTL	REMARKS
1A	8'-0"	7'-0"	1 3/4"	1	INS. METAL	METAL	TYPE 1	TYPE 1	TYPE 1	1
1B	8'-0"	7'-0"	1 3/4"	1	INS. METAL	METAL	TYPE 1	TYPE 1	TYPE 1	1
1C	8'-0"	7'-0"	1 3/4"	1	INS. METAL	METAL	TYPE 1	TYPE 1	TYPE 1	1

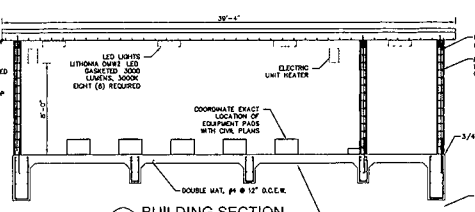
HARDWARE SET
1 3 PR. BUTTS, 1 KEYS LOCKSET 2 CLOSER 2 DOOR STOP (FLOOR TYPE), 2 STAINLESS STEEL WORKMATE AND GASKETING.

NOTES
1 HEAD, JAMB, & SILL DETAIL PROVIDED BY MANUFACTURER

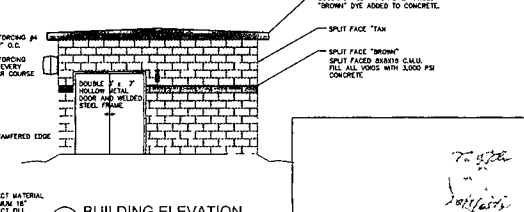
NOTE:
NO PAINT AND/OR FINISH SURFACES TO BE ON EXTERIOR OR INTERIOR OF WALLS AND CONCRETE FLOOR.
CONTRACTOR SHALL APPLY CLEAR SEALANT TO CMU BLOCK AND CONCRETE.



B BUILDING SECTION
SCALE: 1/4"=1'-0"

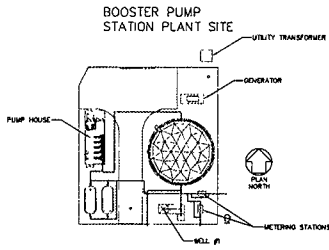


A BUILDING SECTION
SCALE: 1/4"=1'-0"

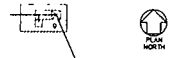


C BUILDING ELEVATION
SCALE: 1/4"=1'-0"

Date: 05/31/2019



WATER LINE



WELL SITE #2
CONTRIBUTOR SHALL FURNISH AND
INSTALL NEW 500 AMP 3-PHASE
480 VOLT METED BASE, WEAIR-
FUSED DISCONNECT WELL CONTROL
PANEL FOR 100 HP WELLS. SAME AS
WELL #1 WITH THE ADDITION OF A
SEVERE WIND-POWER ZONE (FAO TO
120) FOR WIND LIGHTNING WEAIR
TRAILER AND CONNECTION TO
MAIN WATER PLANT
CONNECTION FOR SHALL BE VIA
CELLULAR CONTROLLED SCADA
SYSTEM

1/8"=1'-0" PRINT WELL NO. DUAL SIZE
BAR IS ONE INCH IN LENGTH ON
OPTIONAL DRAWING, CHECK SCALE
AND ADJUST ACCORDINGLY
P-ONE INC

1 ELECTRICAL SITE PLAN
SCALE 1"=40'



Date 05/31/2019

PERKINS
ENGINEERING
CONSULTANTS
INC
1100 W. WILSON
AVENUE
DALLAS, TEXAS 75201
TEL: 214.750.0000
FAX: 214.750.0001

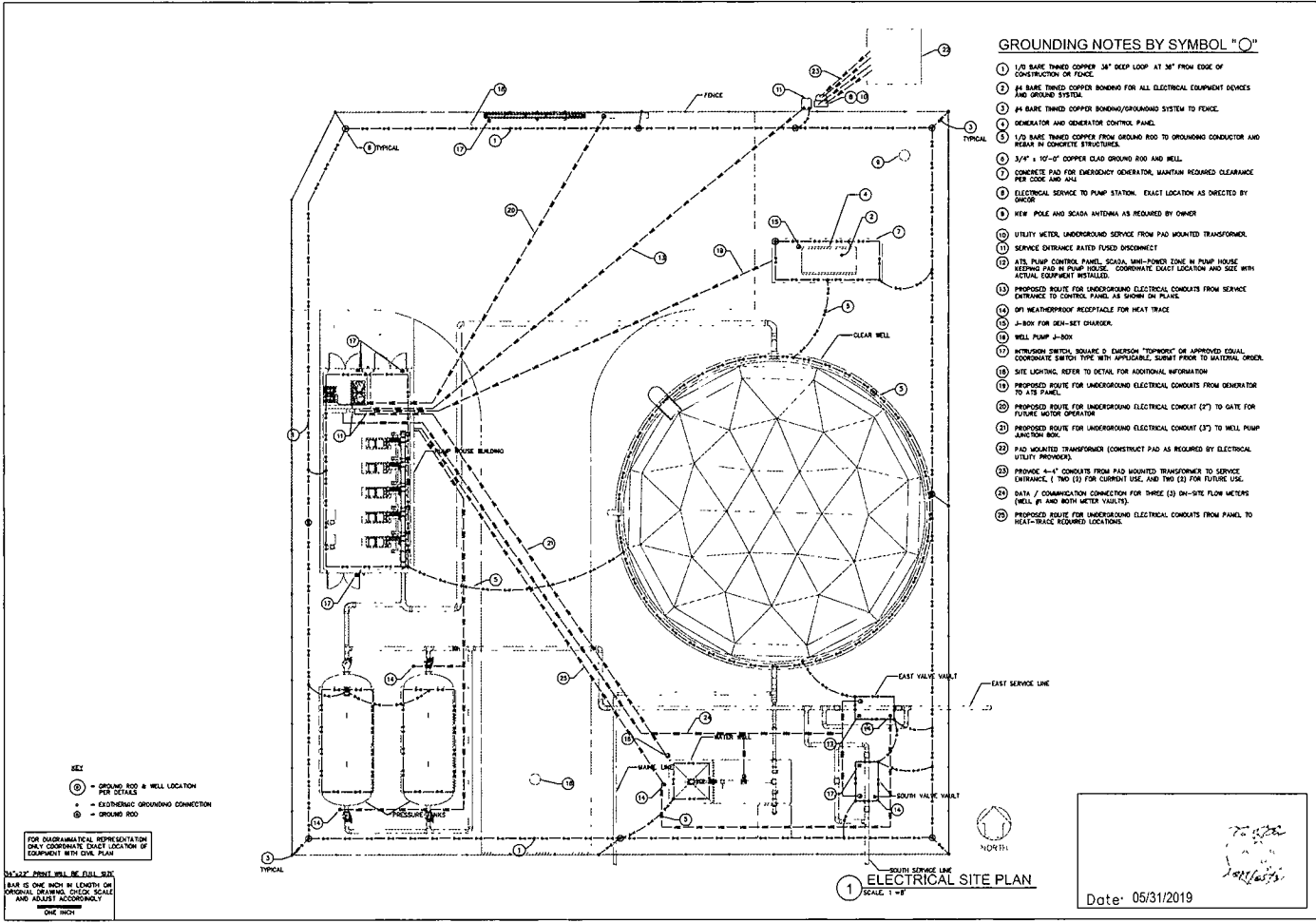
NO.	DATE	DESCRIPTION

PROJECT OVER-ALL PLAN
ELECTRICAL

CONTRACT NO. 2
COLLIN COUNTY, TX
NORTH CLUSTER ROAD WATER
TREATMENT PLANT

DATE	BY	DATE	BY

SHEET NO. E-3



GROUNDING NOTES BY SYMBOL "O"

- 1 1/2 BARE THINNED COPPER 3/4" DEEP LOOP AT 36" FROM EDGE OF CONSTRUCTION OR FENCE.
- 2 1/2 BARE THINNED COPPER BONDING FOR ALL ELECTRICAL EQUIPMENT DEVICES AND GROUND SYSTEM.
- 3 #4 BARE THINNED COPPER BONDING/GROUNDING SYSTEM TO FENCE.
- 4 GENERATOR AND GENERATOR CONTROL PANEL.
- 5 1/2 BARE THINNED COPPER FROM GROUND ROD TO GROUNDING CONDUCTOR AND WEBS IN CONCRETE STRUCTURES.
- 6 3/4" x 10'-0" COPPER CLAD GROUND ROD AND WELL.
- 7 CONCRETE PAD FOR EMERGENCY GENERATOR, MAINTAIN REQUIRED CLEARANCE PER CODE AND ILL.
- 8 ELECTRICAL SERVICE TO PUMP STATION. EXACT LOCATION AS DIRECTED BY OWNER.
- 9 NEW POLE AND SCADA ANTENNA AS REQUIRED BY OWNER.
- 10 UTILITY METER, UNDERGROUND SERVICE FROM PAD MOUNTED TRANSFORMER.
- 11 SERVICE ENTRANCE RATED FUSED DISCONNECT.
- 12 ATS, PUMP CONTROL PANEL, SCADA, LINE-POWER ZONE IN PUMP HOUSE. WEBS IN PAD BY PUMP HOUSE. COORDINATE EXACT LOCATION AND SIZE WITH ACTUAL EQUIPMENT INSTALLED.
- 13 PROPOSED ROUTE FOR UNDERGROUND ELECTRICAL CONDUITS FROM SERVICE ENTRANCE TO CONTROL PANEL AS SHOWN ON PLAN.
- 14 ON WEATHERPROOF RECEPTACLE FOR HEAT TRACE.
- 15 J-BOX FOR DEN-SET CHARGER.
- 16 WELL PUMP J-BOX.
- 17 INTRUSION SWITCH, SQUARE D, EMERSON "TRIPROTEC" OR APPROVED EQUAL, COORDINATE SWITCH TYPE WITH APPLICABLE SERVICE FROM TO NATIONAL CODES.
- 18 SITE LIGHTING. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
- 19 PROPOSED ROUTE FOR UNDERGROUND ELECTRICAL CONDUITS FROM GENERATOR TO ATS PANEL.
- 20 PROPOSED ROUTE FOR UNDERGROUND ELECTRICAL CONDUIT (2") TO GATE FOR FUTURE MOTOR OPERATOR.
- 21 PROPOSED ROUTE FOR UNDERGROUND ELECTRICAL CONDUIT (2") TO WELL PUMP JUNCTION BOX.
- 22 PAD MOUNTED TRANSFORMER (CONSTRUCT PAD AS REQUIRED BY ELECTRICAL UTILITY PROVIDER).
- 23 PROVIDE 4-1" CONDUITS FROM PAD MOUNTED TRANSFORMER TO SERVICE ENTRANCE, 1" THIS (1) FOR CURRENT USE, AND THIS (1) FOR FUTURE USE.
- 24 DATA / COMMUNICATION CONNECTION FOR THREE (3) ON-SITE FLOW METERS (WELL #1 AND BOTH METER VAULTS).
- 25 PROPOSED ROUTE FOR UNDERGROUND ELECTRICAL CONDUITS FROM PANEL TO HEAT-TRACE, REQUIRED LOCATIONS.

 PERKINS ENGINEERING CONSULTANTS, INC. 1100 W. WILSON AVENUE, SUITE 100 FORT WORTH, TEXAS 76104 (817) 335-1100 FAX (817) 335-1101	
CONTRACT No. 2 COLLIN COUNTY, TX NORTH CUSTER ROAD WATER TREATMENT PLANT	BOOSTER STATION, AND WELL #1 PLANT PLAN ELECTRICAL
Date: 05/31/10 Drawn: MATT PEARCE Checked: MATT PEARCE Project No. 05051000 Sheet No. 05	SHEET NO E-4

Date: 05/31/2010

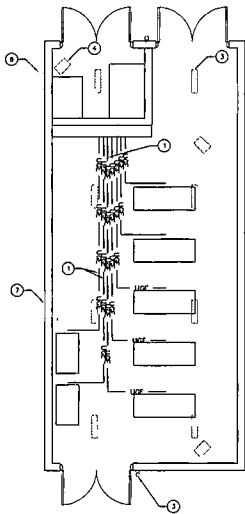
1 ELECTRICAL SITE PLAN
SCALE: 1"=10'

KEY

- ⊙ - GROUND ROD & WELL LOCATION PER DEVICES
- ⊙ - EXOTERMIC GROUNDING CONNECTION
- ⊙ - GROUND ROD

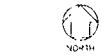
FOR DIMENSIONAL REPRESENTATION ONLY COORDINATE EXACT LOCATION OF EQUIPMENT WITH CIVIL PLAN

1/4" = 10' PRINT WILL BE FULL SIZE
 BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.
 ONE INCH

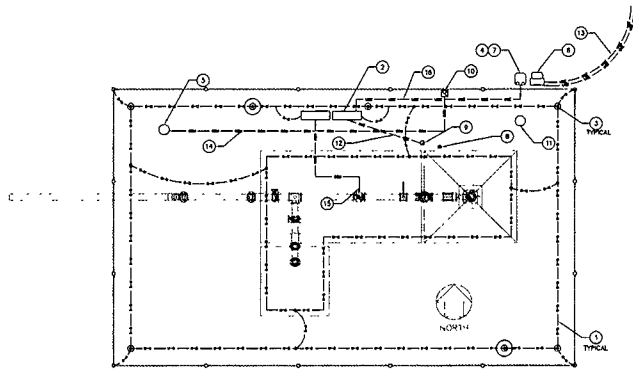


BOOSTER STATION NOTES BY SYMBOL "O"

- ① UNDER FOUNDATION CONDUIT AND WIRE FOR BOOSTER PUMPS #1 - #5
- ② UNDER FOUNDATION CONDUIT AND WIRE FOR AIR COMPRESSORS #1 & #2
- ③ CEILING MOUNTED LED LIGHTS (26X TOTAL)
- ④ CEILING MOUNTED ELECTRIC UNIT HEATER (2-10TAL)
- ⑤ EXTERIOR LIGHTS, LED WALL SCHEME (2-10TAL)
- ⑥ CL2 EXHAUST FAN
- ⑦ PUMP BUILDING EXHAUST FAN (THERMOSTAT CONTROLLED)



① PUMP STATION BUILDING
SCALE: 1"=4'



WELL SITE #1 NOTES BY SYMBOL "O"

- ① 1/2" BARE THREADED COPPER 3/4" DEEP BONDING FOR ALL ELECTRICAL EQUIPMENT DEVICES AND BONDING SYSTEM.
- ② WELL PUMP #2 CONTROL PANEL, 100A 3R 480 VOLT 3-PHASE 200 AMP
- ③ 3/4" x 1/2" COVER CLAS GROUND ROD AND WELL
- ④ ELECTRICAL SERVICE TO WELL PUMP #2. EXACT LOCATION AS DIRECTED BY OWNER
- ⑤ NEW POLE AND SCADA ANTENNA AS REQUIRED BY OWNER
- ⑥ UTILITY METER, UNDERGROUND SERVICE FROM PAD MOUNTED TRANSFORMER
- ⑦ SERVICE ENTRANCE RATED 480 VOLT 3-PHASE, 300 AMP FUSED DISCONNECT
- ⑧ 021 WEATHERPROOF RECEPTACLE FOR HEAT TRACE.
- ⑨ WELL PUMP 3-B00F
- ⑩ INTERLOCK SWITCH ON WELL AND VALVE VAULT HATCHES, SQUARE D (DESIGNER "FORNIGHT" OR APPROVED EQUAL, COORDINATE SWITCH TYPE WITH APPLICABLE, REFER TO NATIONAL SPEC)
- ⑪ SITE LIGHTING, REFER TO DETAIL FOR ADDITIONAL INFORMATION
- ⑫ PROPOSED ROUTE FOR UNDERGROUND ELECTRICAL CONDUIT (3") TO WELL PUMP JUNCTION BOX 4/0 CONDUCTORS
- ⑬ PROVIDE CONDUITS FROM TRANSFORMER TO SERVICE ENTRANCE, (PROVIDE SPARE CONDUIT FOR FUTURE USE).
- ⑭ PROPOSED ROUTE FOR UNDERGROUND DATA CABLE
- ⑮ FLOW METER WELL #2
- ⑯ SERVICE ENTRANCE CONDUCTORS, 4/0L NO REDUCED NEUTRAL, 480 VOLT 3-PHASE.

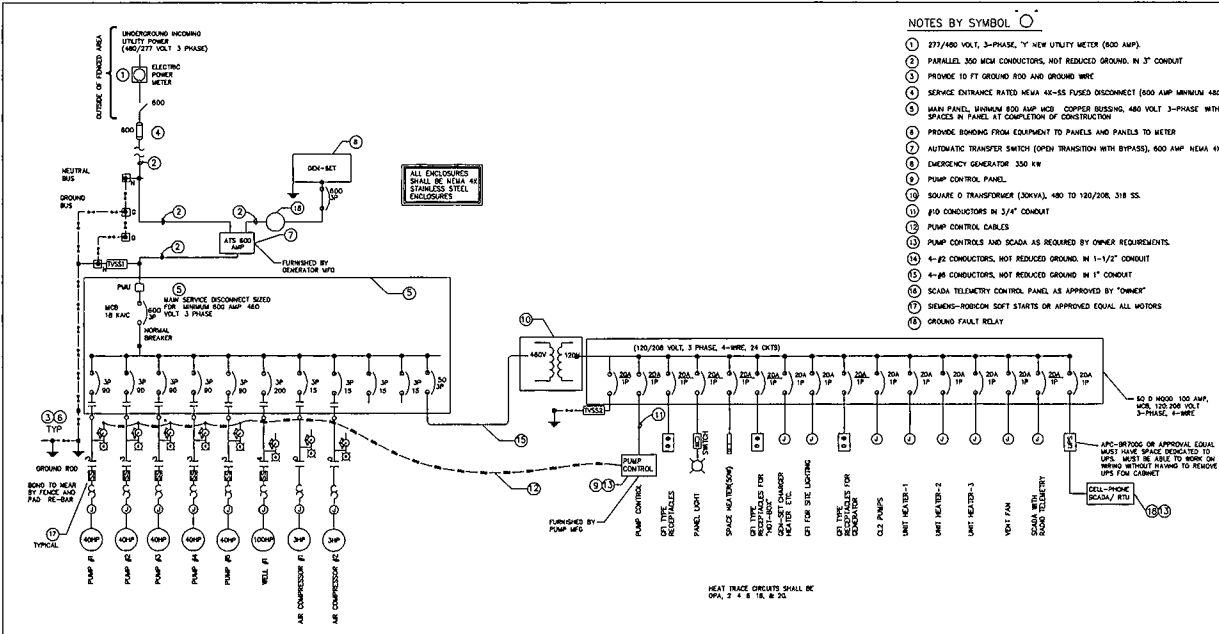
- KEY
- ⊙ = GROUND ROD & WELL LOCATION PER DETAIL
 - + = EXOTHERMIC GROUNDING CONNECTION
 - ⊖ = GROUND ROD

② WELL #2 SITE
SCALE: 1"=4'

THIS DRAWING SHALL BE FULL SIZE
BUT IS ONE INCH IN LENGTH ON
ORIGINAL DRAWING. CHECK SCALE
AND ADJUST ACCORDINGLY.
ONE INCH

Date: 05/31/2019

PERRINS & PERINI CONSULTING 1100 WEST 17TH STREET, SUITE 100 DALLAS, TEXAS 75201 TEL: 214.750.1000 FAX: 214.750.1001 WWW.PERRINSANDPERINI.COM	
CONTRACT No. 2 COLLIN COUNTY, TX NORTH CUSTER ROAD WATER TREATMENT PLANT	PUMP HOUSE & WELL #2 PLANS ELECTRICAL
Date: 05/31/2019 Drawn: [Signature] Checked: [Signature] Revised: [Signature] Project No. 445134621 Scale: AS SHOWN	SHEET NO E-5



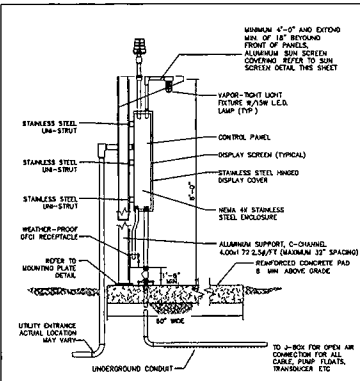
- NOTES BY SYMBOL**
- 1 277/480 VOLT, 3-PHASE, Y NEW UTILITY METER (600 AMP)
 - 2 PARALLEL 300 MCM CONDUCTORS, NOT REDUCED GROUND, IN 3" CONDUIT
 - 3 PROVIDE 10 FT GROUND ROD AND GROUND WIRE
 - 4 SERVICE ENTRANCE RATED NEVA 48-55 FUSED DISCONNECT (600 AMP MINIMUM 480 VOLT, 3-PHASE)
 - 5 MAIN PANEL, MINIMUM 600 AMP MCM COPPER BUSING, 480 VOLT 3-PHASE WITH MINIMUM OF (2) 3-POLE UNUSED SPACES IN PANEL AT COMPLETION OF CONSTRUCTION
 - 6 PROVIDE BONDING FROM EQUIPMENT TO PANELS AND PANELS TO METER
 - 7 AUTOMATIC TRANSFER SWITCH (OPEN TRANSITION WITH BYPASS), 600 AMP NEMA 415S, 480 VOLT OR APPROVED EQUAL
 - 8 EMERGENCY GENERATOR 350 KW
 - 9 PUMP CONTROL PANEL
 - 10 SQUARE D TRANSFORMER (30KVA), 480 TO 120/208, 318 SS.
 - 11 #10 CONDUCTORS IN 3/4" CONDUIT
 - 12 PUMP CONTROL CABLES
 - 13 PUMP CONTROLS AND SCADA AS REQUIRED BY OWNER REQUIREMENTS.
 - 14 4-#2 CONDUCTORS, NOT REDUCED GROUND, IN 1-1/2" CONDUIT
 - 15 4-#8 CONDUCTORS, NOT REDUCED GROUND, IN 1" CONDUIT
 - 16 SCADA TELEMETRY CONTROL PANEL AS APPROVED BY "OWNER"
 - 17 SIEMENS-ROBICON SOFT STARTS OR APPROVED EQUAL ALL MOTORS
 - 18 GROUND FAULT RELAY

1 ELECTRICAL ONE-LINE DIAGRAM
NO SCALE

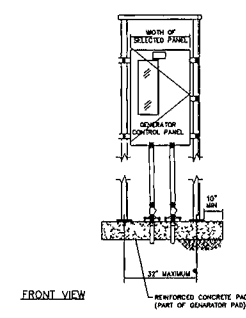
1/4"=1'-0" PRINT WILL BE FULL SIZE
BAR IS ONE INCH IN LENGTH ON ORIGINAL OR REVISED QUICK SCALE AND ADJUST ACCORDINGLY
ONE INCH

Date 05/31/2019

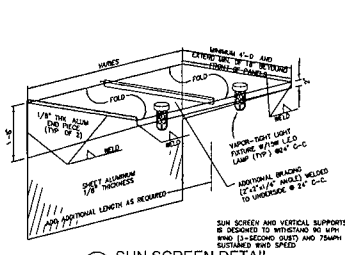
CONTRACT No. 2 COLLIN COUNTY, TX NORTH CUSTER ROAD WATER TREATMENT PLANT	POWER ONE-LINE ELECTRICAL
Date: 05/31/2019 Drawn: [Signature] Checked: [Signature] Project No.: [Blank] Revision: [Blank]	SHEET NO. E-6



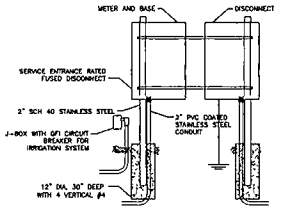
1 GENERATOR PANEL PROFILE WITH SUN SCREEN DETAIL
NO SCALE



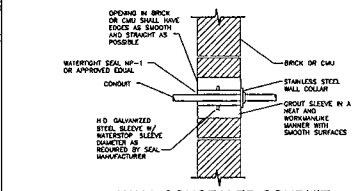
2 GENERATOR PANEL
NO SCALE



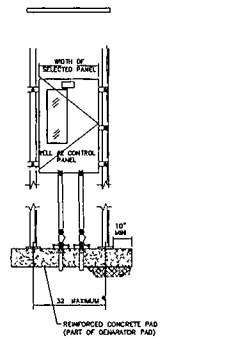
3 SUN SCREEN DETAIL
NO SCALE



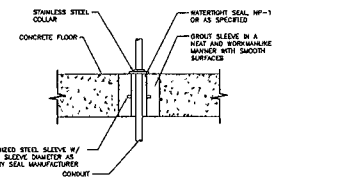
4 UNDERGROUND SERVICE METER PEDESTAL DETAIL
NO SCALE



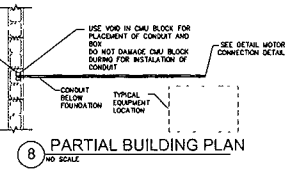
5 WALL CONCEALED CONDUIT INSTALLATION
SCALE: NONE



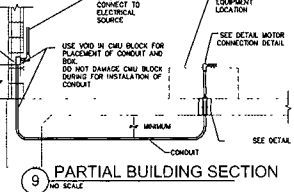
6 WELL # 2 CONTROL PANEL
NO SCALE



7 FLOOR CONCEALED CONDUIT INSTALLATION
SCALE: NONE



8 PARTIAL BUILDING PLAN
NO SCALE



9 PARTIAL BUILDING SECTION
NO SCALE

MINIMUM 1/2\"/>

Date: 05/31/2019

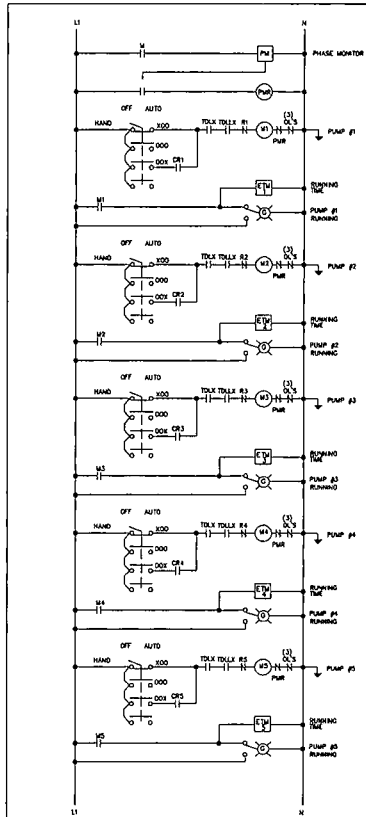
PERKINS & WILSON
CONSULTANTS, INC.
11111
11111

PANEL DETAILS
ELECTRICAL

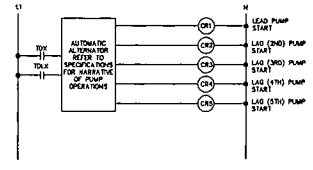
CONTRACT No. 2
COLLIN COUNTY, TX
NORTH CUSTER ROAD WATER
TREATMENT PLANT

DATE	05/31/2019
BY	[Signature]
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DESIGNED	[Signature]
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SHEET NO
E-7



1 PUMP CONTROL SCHEMATIC
NO SCALE



TIME DELAY RELAYS TO START NEXT PUMP IF WATER LEVEL IN PRESSURE TANK HAS NOT BEEN SUFFICIENT MINIMUM DELAY 15 SECONDS.

2 PUMP CONTROL SCHEMATIC
NO SCALE

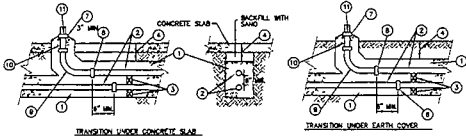
1. AUTO STARTER SHALL BE SENSAPHONE F100-100 PROGRAMMED TO "ONHEAT" REQUIREMENTS.
2. WINDING TEMPERATURE SHALL BE CONNECTED TO THE HIGH TEMPERATURE SWITCH, FAULT SHALL GENERATE AN ALARM CONDITION.
3. LEVEL TRANSDUCER IN GROUND STORAGE TANK SHALL BE USED TO CONTROL ALL BELL PUMPS FUNCTIONS.
4. LOW LEVEL LOCK OUT IN GROUND STORAGE TANK SHALL SHUT-OFF ALL BOOSTER PUMPS.
5. SIGHT-GLASS PROBE SHALL BE USED TO CONTROL PRESSURE TANK WATER LEVEL.
6. WINDING PRESSURE SWITCH, SERIES 04-31 0-100 PSI FULL RANGE, NORMAL DIFFERENTIAL RANGE OF 2-PSI, INCESS BOOSTER TANK OR APPROVED EQUAL TO BE USED TO CONTROL AIR PRESSURE IN HYDRO-PNEUMATIC TANKS.
7. THESE DIAGRAMS ARE TO CONVEY THE GENERAL INTENT FOR THE CONTROL, SEQUENCE OF OPERATION FOR A DOUBLE CHECK LEFT TO THE USER. PLANT SWITCHES AND LEVEL TRANSDUCER CONTROL METHODOLOGY SHALL BE SELECTABLE FOR OTHER PLANTS OR LEVEL TRANSDUCER PROTOCOL, NOT ALL ELEMENTS ARE REPRESENTED IN THIS PUMP CONTROL SCHEMATIC.
8. THE ELECTRICAL CONTROL PANEL SUPPLIER SHALL SUBMIT FOR APPROVAL A COMPLETE WIRING DIAGRAM INCLUDING, BUT NOT LIMITED TO, THE SPECIFIC MOTOR STARTERS, BREAKERS, LEVEL TRANSDUCER, PRESSURE TRANSDUCERS, FLOATS, AUTO-STARTER, RELAYS, ALTERNATOR AND ALL ADDITIONAL INTEGRAL ELEMENTS FOR THE CONTROL PANEL.
9. AIR SHALL BE ADDED OR RELEASED FROM THE HYDRO-PNEUMATIC TANKS WITH THE BOOSTER PUMPS ARE NOT RUNNING.

REFER TO TECHNICAL PROVISIONS FOR ADDITIONAL INFORMATION

1/8"=1'-0" PRINT SHALL BE FULL SIZE
BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY
DATE 05/31/2019

Date 05/31/2019

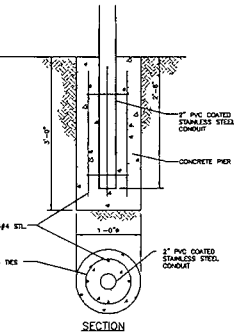
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<p>CONTRACT NO. 2 COLLIN COUNTY, TX NORTH CUSTER ROAD WATER TREATMENT PLANT</p>	
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<p>SHEET NO E-8</p>	



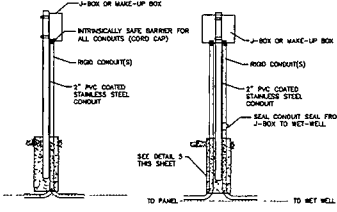
NOTES BY SYMBOL "O"

- 1 CLASS 'C' CONCRETE.
- 2 CONDUIT SIZE AS REQUIRED BY NEC UNLESS OTHERWISE SPECIFIED. ALL UNDERGROUND CONDUITS SHALL BE PVC UNLESS OTHERWISE INDICATED ON THE PLANS.
- 3 SPACERS SHALL BE JOINTS MANVILLE PLASTIC SPACERS OR EQUIVALENT SPACED 5'-0" O.C.
- 4 COVER SHALL BE 2'-0" MINIMUM BELOW SOIL SURFACE AND 1'-0" MINIMUM BELOW CONCRETE SLAB, OR AS SHOWN ON PLANS.
- 5 UNDERGROUND CONDUIT WITH PLANT TENDED AREA SHALL BE ENCASED IN AN ENVELOPE OF CONCRETE.
- 6 COUPLING.
- 7 PROTECT EXPOSED CONDUIT ENDS DURING CONSTRUCTION WITH THE PLUG OR CAPS. FUTURE AND SPARE CONDUIT ENDS SHALL HAVE PIPE PLUGS OR CAPS.
- 8 ANCHOR FROM NON-METALLIC CONDUIT AS REQUIRED.
- 9 PVC COATED ROD ALUMINUM CONDUIT SIZES FOR LESS THAN 2" PVC SOH SO CONDUIT FOR 2 INCH AND LARGER.
- 10 PVC COATED ROD ALUMINUM CONDUIT SIZE AND TYPE AS REQUIRED EXTERIOR THIS CONDUIT A MINIMUM OF 8" WITH CONCRETE.
- 11 CONDUIT TERMINATING IN AN ENCLOSURE CONTAINING A GROUND BUS SHALL HAVE A GROUNDING BUSING WITH A GROUND WIRE TO THE GROUND BUS.

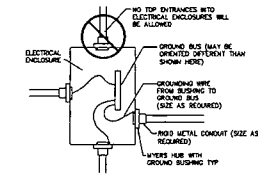
1 UNDERGROUND CONDUIT INSTALLATION DETAIL



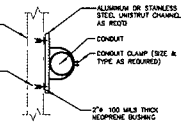
5 CONCRETE PIER DETAIL



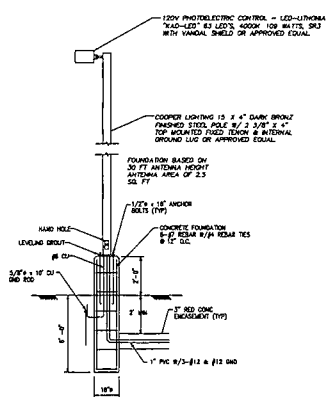
6 EQUIPMENT CONNECTION DETAIL



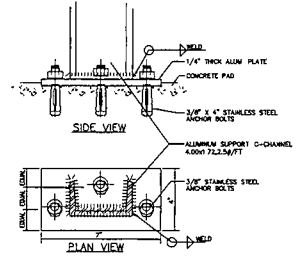
2 ENCLOSURE / CONDUIT DETAIL



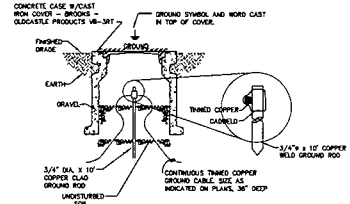
3 CONDUIT SUPPORT AT WALL DETAIL



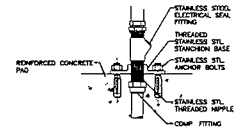
7 POLE FOOTING DETAILS



4 MOUNTING PLATE DETAIL



8 GROUND ROD & WELL DETAIL



9 SEAL-OFF DETAIL

Date 05/31/2019

PERKINS ENGINE CONSULTANTS INC.
 11011 W. HIGHTWAY 277
 FORT WORTH, TEXAS 76116
 TEL: 817.233.8800
 FAX: 817.233.8801
 WWW: PERKINS-ENGINE.COM

NO.	DATE	DESCRIPTION
1	05/31/2019	ISSUED FOR PERMIT
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ELECTRICAL

**CONTRACT NO. 2
 COLLIN COUNTY, TX
 NORTH CUSTER ROAD WATER
 TREATMENT PLANT**

**SHEET NO
 E-9**

Attachment 10
Tariff (Question 29)



TARIFF CONTROL NO. 50574

APPLICATION OF AQUA TEXAS, INC., § PUBLIC UTILITY COMMISSION
AQUA UTILITIES, INC., AND AQUA §
DEVELOPMENT, INC. DBA AQUA § OF TEXAS
TEXAS FOR 2019 TRUE-UP REPORT §
AND PASS-THROUGH GALLONAGE §
CHARGE FOR ITS NORTH REGION §

COMMISSION STAFF'S REPLACEMENT TARIFF

COMES NOW the Staff (Staff) of the Public Utility Commission of Texas (Commission), representing the public interest, and files this Commission Staff's Replacement Tariff. In support thereof, Staff shows the following:

I. BACKGROUND

On February 20, 2020, Aqua Texas, Inc., Aqua Utilities, Inc., and Aqua Development, Inc. dba Aqua Texas (collectively, Aqua Texas or Applicant) submitted its North Region Regional Pass-Through Gallonage Charge True-Up Report for the completed 2019 calendar year. In addition, Aqua Texas proposed to increase its regional pass-through gallonage charge to \$0.3751 per 1,000 gallons effective March 1, 2020.

On September 25, 2020, the Applicant and Staff jointly filed a Joint Motion to Reopen Record and Correct Notice of Approval in response to the Notice of Approval issued in this matter on June 10, 2020. Concurrently with that filing, Staff now files this corrected tariff.

II. ADDITIONAL TARIFF

As noted in the Joint Motion to Reopen Record and Correct Notice of Approval, filed contemporaneously with this pleading, Staff's recommendation in this proceeding properly included a tariff for Aqua Texas, Inc. (certificate of convenience and necessity (CCN) No. 13201), but inadvertently omitted one of Aqua Texas' public water systems that should have been included.

Aqua has a sale, transfer, or merger (STM) application pending for its Gap Water public drinking water system (PWS ID No. 2210023) in Taylor County, Texas.¹ The parties in that

¹ *Application of Aqua Texas, Inc. and Town of Buffalo Gap for Sale, Transfer, or Merger of Facilities and Certificate Rights in Taylor County (Gap Water System)*, Docket No. 48565 (Aug. 2, 2018).

matter were approved to close the transaction on November 28, 2018.² However, the sale has not yet closed because the purchaser (Town of Buffalo Gap) has been working on issues related to its financing for the transaction. The parties to Docket No. 48565 have requested and received several extensions for their time to close as a result. Consequently, the tariff for CCN No. 13201 approved in the instant proceeding should still include Aqua Texas' Buffalo Gap public water system.

Staff respectfully submits the replacement tariff for Aqua Utilities, Inc.'s North Region for approval, which includes the Buffalo Gap Water public drinking water system (PWS ID No. 2210023) in Taylor County, Texas.

Dated: September 25, 2020

Respectfully submitted,

**PUBLIC UTILITY COMMISSION OF TEXAS
LEGAL DIVISION**

Rachelle Nicolette Robles
Division Director

Eleanor D'Ambrosio
Managing Attorney

/s/ John Harrison
John Harrison
State Bar No. 24097806
1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326
(512) 936-7277
(512) 936-7268 (facsimile)
John.Harrison@puc.texas.gov

² *Id.*, Notice of Approval (Nov. 28, 2018).

TARIFF CONTROL NO. 50574

CERTIFICATE OF SERVICE

I certify that, unless otherwise ordered by the presiding officer, notice of the filing of this document was provided to all parties of record via electronic mail on September 25, 2020, in accordance with the Order Suspending Rules, issued in Project No. 50664.

/s/ John Harrison
John Harrison



**WATER UTILITY TARIFF
North Region
Tariff Control No.: 50574**

Aqua Texas, Inc. dba Aqua Texas
(North Region)
(Utility Name)

1106 Clayton Lane, Suite 400W
(Business Address)

Austin, Texas 78723
(City, State, Zip Code)

(512) 990-4400
(Area Code/Telephone)

This tariff is effective for utility operations under the following Certificate of Convenience and Necessity:

13201

This tariff is effective in the following counties:
See attached Table – North Region

The following is a list of cities where Aqua Texas – North Region provides water service:

City of Stockton Bend, City of Granbury, The Town of Lakewood Village, City of Rhome, Town of Shady Shores, and City of Waco

The rates set or approved by the city for the systems entirely within its corporate boundary are not presented in this tariff. Those rates are not under the original jurisdiction of the PUC and will have to be obtained from the city or utility. This tariff applies to outside city customers of systems that provide service inside and outside of a city’s corporate boundary.

This tariff is effective in the following subdivisions and public water systems:
See attached Table A – North Region

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The above utility lists the following sections of its tariff (if additional pages are needed for a section, all pages should be numbered consecutively):

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