

**NOTICE
GLENPOOL UTILITY SERVICE AUTHORITY
SPECIAL MEETING**

A Special Session of the Glenpool Utility Service Authority will be held at 6:00 p.m. immediately following the Glenpool City Council Meeting on August 19, 2019, at Glenpool City Hall, City Council Chambers, 12205 S. Yukon Ave., 3rd Floor, Glenpool, Oklahoma.

AGENDA

	Page
A) Call to Order - Timothy Lee Fox, Chairman	
B) Roll Call, Declaration of Quorum – Wendy Knight, Secretary; Timothy Lee Fox, Chairman	
C) Scheduled Business	
1) Discussion and possible action to approve a Contract Agreement with Starbuck Trucking, LLC, for the Oak Street Sewer Lift Station Rehab Project, in an amount not to exceed \$98,080.29 to be funded from the FY 2019/2019 Move Glenpool Forward Budget under Account No. 50-6-16-6361, and to authorize City Manager to execute the same. (Lynn Burrow, Community Development Director) GUSA Presentation 08 19 19 Bid Acceptance Oak Street Liftstation Rehab.	2 - 23
2) Discussion of potential options to allow St. Francis Health Systems to place their logo on the 156th St. water tower. (David Tillotson, City Manager) St. Francis Water Tower Discussion	24 - 31

D) Adjournment

This notice and agenda was posted at Glenpool City Hall, 12205 S. Yukon Ave., Glenpool, Oklahoma, on August 15, 2019 by 4:00 pm.

Signed: Wendy Knight
Secretary



MEMORANDUM

**TO: CHAIRMAN AND BOARD OF TRUSTEES
GLENPOOL UTILITY SERVICES AUTHORITY**

**FROM: LYNN BURROW, PE
COMMUNITY DEVELOPMENT DIRECTOR**

**RE: OAK STREET SANITARY SEWER LIFTSTATION REHAB. PROJECT
BID TABULATION AND CONSTRUCTION CONTRACT AGREEMENT**

DATE: AUGUST 19, 2019

BACKGROUND:

This is a request for consideration and action regarding the review and approval of the attached Bid Tabulation and proposed Construction Contract Agreement covering improvements designed and approved for the total rehabilitation of the existing sanitary sewer liftstation facility located within, and serving, Glen Park Addition. The final engineering design documents for this project were completed by Midwest Engineering Group, LLC and approved by Staff for bidding purposes on May 31st, 2019. The project was publicly advertised and placed for competitive public bid on July 13th, 2019. A Pre-Bid meeting was held on July 26th, 2019 and bids accepted and publicly read on August 2nd. The attached Bid Tabulation lists the Contractors that submitted Contract Bids for the specified scope of work for the base project. As noted in the Bid Tabulation, Starbuck Trucking, LLC in Fredonia, Kansas is the Low Bidder on the project with a total bid amount of \$98,080.29.

STAFF RECOMMENDATION:

Midwest Engineering Group and Staff has reviewed the submitted bids for completeness, required bonding, and supporting contract documents and recommend approval by the Authority, and is thereby requesting authorization be given to the City Manager to enter into a Contract Agreement with Starbuck Trucking, LLC. in an amount not to exceed \$98,080.29 to be funded from the FY 2019/2019 Move Glenpool Forward Budget under Account No. 50-6-16-6361.

Attachments:

A. Bid Tabulation and Supporting Documents

12205 S. Yukon, Glenpool, OK 74033 OFFICE: 918-322-5409 FAX: 918-209-4641
Mayor Tim Fox, Vice-Mayor Momodou Ceesay, Councilors: Joyce Calvert, Brandon Kearns, and Jacqueline Lund
City Manager David Tillotson, Assistant City Manager Susan White, City Clerk Wendy Knight
www.glenpoolonline.com



Bid Tabulation

Oak Street Lift Station Rehab. Project

Bid Date: August 2, 2019

Contractors Requesting and Receiving Bid Packages:

- A. Utility Field Service, LLC - Chandler, Okla.
- B. Starbuck Trucking, LLC - Fredonia, Kansas
- C. Sapulpa Digging, Inc.- Sapulpa, Okla.
- D. Goins Enterprises, Inc. - Joplin, Missouri
- E. C4L, LLC. - Edmond, Okla.
- F. Beytco, Inc. - Sapulpa, Okla.

Contractors Attending Pre-Bid Meeting:

June 26, 2019

- A. Beytco, Inc. – Sapulpa, Okla.

Contractors Submitting Bids August 2, 2019:

Total Bid:

A. Utility Field Service, LLC - Chandler, Okla.	\$119,925.00
B. Starbuck Trucking, LLC - Fredonia, Kansas*	\$98,080.29*
C. Sapulpa Digging, Inc.- Sapulpa, Okla.	\$144,350.00
D. Goins Enterprises, Inc. - Joplin, Missouri	\$158,375.00
E. C4L, LLC. - Edmond, Okla.	\$119,119.00

*Selected low Bidder and Total Low Bid

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
 - 3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
 - 3.2 All Bids are rejected by Owner, or
 - 3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after the Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

ARTICLE 5 – BASIS OF BID

- 5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

UNIT PRICE BASE BID

Base Bid					
Item No.	Description	Unit	Quantity	Bid Unit Price	Bid Price
1	Super Station Skid Package	LS	1	28,660	28,660.00
2	Demolition of Existing Equipment	LS	1	24,820	24,820.00
3	Wetwell Rehabilitation	LS	1	7,600	7,600.00
4	Wetwell Liner	LF	12	416.67	5,000.04
5	6' Privacy Fence (Wooden)	LF	45	44.45	2,000.25
6	Site Work	LS	1	17500	17,500.00
7	Reconnection to Ex Electrical Service and SCADA System	LS	1	7,800	7,800.00
8	Bypass Pumping	LS	1	4,700	4,700.00
Total of Base Bid Unit Price Bid Items					\$ 98,080.29

Note: The unit prices bid for this contract shall include all costs for labor, materials, and equipment required to satisfactorily furnish and complete the Work. Each unit price shall include full compensation for all equipment, material, labor, and other incidentals for performing the Work defined in the contract documents per line item. Payments shall be at the respective unit prices bid for the quantity of work performed. Payment for all work incidental to the satisfactory completion of the Work, not identified as a line item, shall be included in the unit prices for the various items as bid in the Bid Form. Unit prices have been computed in accordance with Paragraph 13.03 of the General Conditions.

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete within 45 calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 60 calendar days after the date when the Contract Times commence to run.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security in the form of a Bid Bond (EJCDC No. C-430) or Certified Check [circle type of security provided]
 - B. List of Proposed Subcontractors;
 - C. List of Proposed Suppliers;
 - D. List of Project References;
 - E. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
 - F. Evidence of Bidder's ability to obtain a State Contractor's License and a covenant by Bidder to obtain said license within the time for acceptance of Bids;

ARTICLE 8 – DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

8.02

ARTICLE 9 – BID SUBMITTAL

9.01 This Bid is submitted by:

An Individual

BIDDER: *[Typed or Printed]*

By: _____

[Individual's Signature]

Doing Business As:

A Corporation

BIDDER: *[Corporation Name Typed or Printed]*

Starbuck Trucking

State or Jurisdiction of Incorporation: *Kansas*

Type: ☐ General Business ☐ Profession ☐ Services ☒ Limited Liability

By: *Kevin Starbuck*

[Signature of Corporate Secretary]

Name: *[Typed or Printed]*

Principal Owner Kevin Starbuck

Title: _____

Attest: _____

[Signature of Corporate Secretary]

Date of Qualification to do business in _____ *[State or other jurisdiction]*

where Project is located] is _____ / _____ / _____.

A Partnership

BIDDER: *[Partnership Name Typed or Printed]*

By: _____

[Signature of general partner – attach evidence of authority to sign]

Name: *[Typed or Printed]*

A Joint Venture

BIDDER: *[Joint Venture Name Typed or Printed]*

First Joint Venture Name:

By: _____

[Signature of Joint Venture Partner – attach evidence of authority to sign]

Name: *[Typed or Printed]*

Title: _____

Second Joint Venture Name:

By: _____

[Signature of Joint Venture Partner – attach evidence of authority to sign]]

Name: *[Typed or Printed]*

Title: _____

(Each joint venture must sign. The manner of signing for each individual, partnership, and corporation that is party to the venture should be in the manner indicated above.)

Bidder's Business Address:

Telephone Number:

Fax Number:

Contact Name and e-mail address:

State Contractor License No.:

(where applicable)

Employer's Tax ID No.:

Phone and FAX Number and address for official communications, if different from Business contact information:

9.02 Bid Submitted on _____, 20____

BID BOND

Any singular reference to Bidder, Surety, Owner or other party shall be considered plural where applicable.

BIDDER (Name and Address):

SURETY (Name, and Address of Principal Place of Business):

OWNER (Name and Address):

CITY OF GLENPOOL
12205 S. YUKON
GLENPOOL, OK 74033

BID

Bid Due Date:

Description (Project Name— Include Location):

BOND

Bond Number:

Date:

Penal sum

Four Thousand Four hundred & 0/100 \$ 4,904.01

(Words)

(Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

BIDDER

SURETY

Starbuck Trucking (Seal)
Bidder's Name and Corporate Seal

Surety's Name and Corporate Seal

By:

Signature

Kevin Starbuck
Print Name

owner
Title

Attest:

Signature

Title

By:

Signature (Attach Power of Attorney)

Print Name

Title

Attest:

Signature

Title

Note: Addresses are to be used for giving any required notice.

Provide execution by any additional parties, such as joint venturers, if necessary.

CASH ONLY IF ALL CheckLock™ SECURITY FEATURES LISTED ON BACK INDICATE NO TAMPERING OR COPYING

Starbuck Trucking LLC.
7883 900 Rd.
Fredonia, KS 66736
(620) 378-3710

FIRST NEODESHA BANK
83-201/1011

26776

8/1/2019

PAY TO THE
ORDER OF

GUSA

\$**4,904.01

Four Thousand Nine Hundred Four and 01/100***** DOLLARS

PROTECTED AGAINST FRAUD

GUSA
12205 South Yukon Ave
Glenpool, OK 74033

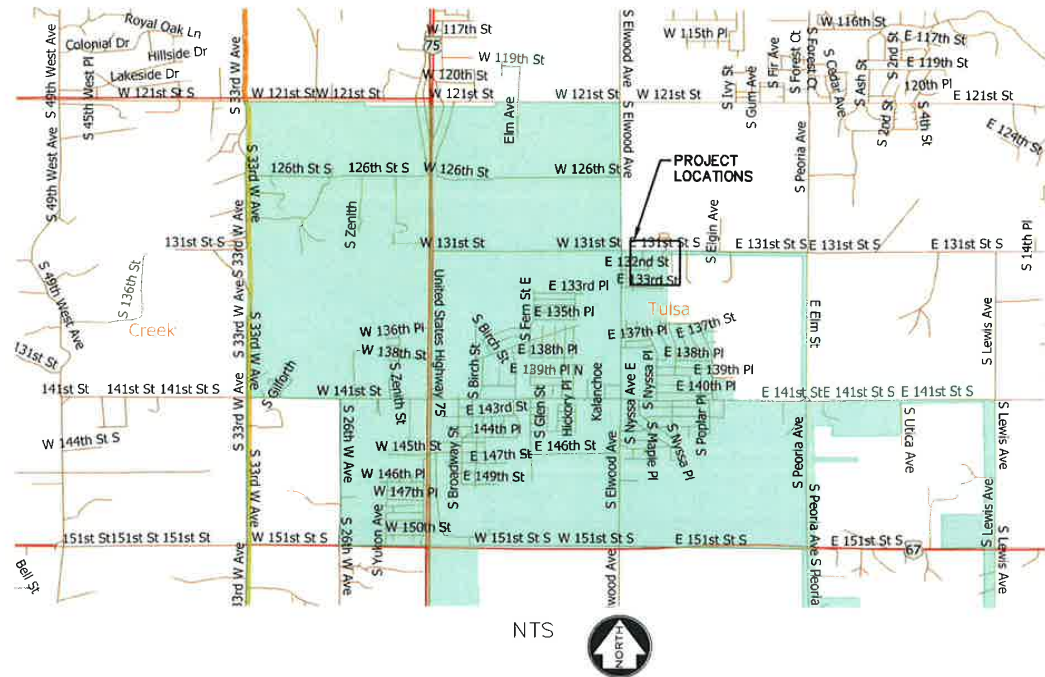
MEMO

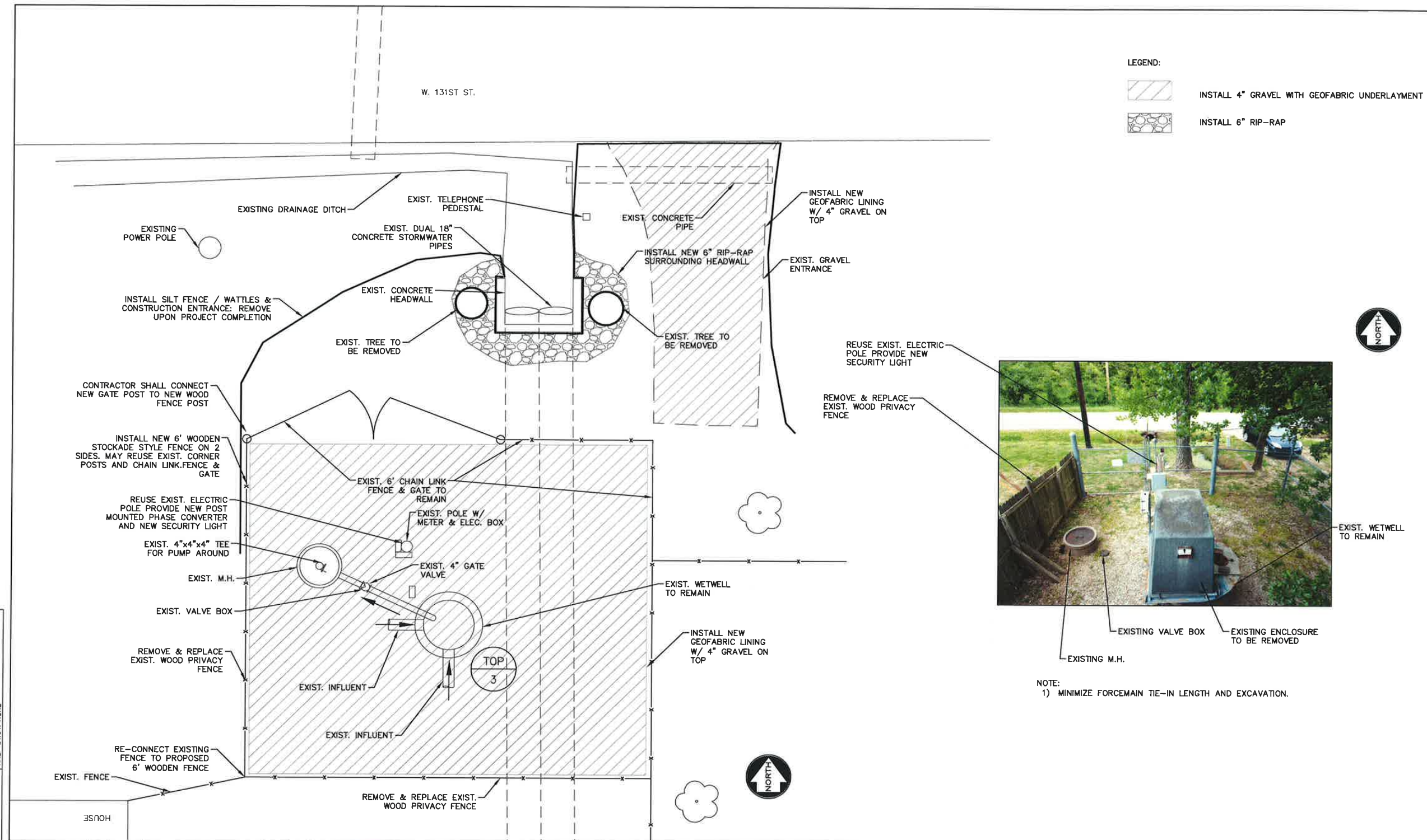
Bid Bond ("Oak Street" Lift Station Upgrade Project)

⑈026776⑈ ⑆101102014⑆ ⑈10 148 6⑈

1. CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS SO THAT EXISTING UTILITIES CAN BE LOCATED PRIOR TO ANY EXCAVATION.
2. UPON EXCAVATION, SHOULD ANY EXISTING UTILITY BE DAMAGED, THE UTILITY OWNER SHALL BE NOTIFIED SO THAT REPAIRS CAN BE MADE BEFORE BACK-FILLING THE TRENCH.
3. SERVICE LINES, AS WELL AS MAINS, SHALL BE LOCATED SUCH THAT THEY WILL NOT INTERFERE WITH SEWER TILE FIELDS. PIPE LINES SHALL NOT BE LAID ACROSS HOG PENS OR LIVESTOCK FEED PENS. A MINIMUM DISTANCE OF TWENTY-FIVE (25) FEET SHALL BE MAINTAINED BETWEEN ALL POTABLE WATER LINES AND ALL SEPTIC TANKS, WASTE STABILIZATION PONDS, OR OPEN SEWAGE DISCHARGE LOCATIONS, POTENTIAL SOURCES OF POLLUTION, I.E., UNDERGROUND CHEMICAL STORAGE TANK, ETC. VIOLATIONS OF THIS RULE SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. A MINIMUM OF TWO (2) FEET OF VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER AND SEWER LINES WHERE THEY CROSS. WATERLINES SHALL ALWAYS CROSS ABOVE FORCE MAINS. A MINIMUM OF TEN (10) FEET OF HORIZONTAL SEPARATION SHALL BE MAINTAINED WHEN THEY RUN PARALLEL. AT POINTS WHERE WATER LINES CROSS A GRAVITY SEWER LINE, CONTRACTOR SHALL REPLACE THE SEWER LINE WITH PVC PIPE FOR A DISTANCE OF TEN (10) FEET AWAY FROM EACH SIDE OF LINE, UNLESS THAT WATER LINE IS MORE THAN TWO (2) FEET ABOVE THE SEWER LINE. THE PVC PIPE IS TO CONFORM TO ASTM D3034 WITH MINIMUM WALL THICKNESS OF SDR41, ASTM F879, OR ASTM F794, WITH GASKETED PUSH-ON JOINTS IN CONFORMANCE WITH ASTM D3212 AND IS TO BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PURSUANT TO THE MOST RECENT REVISION OF KDHE'S MINIMUM STANDARDS OF DESIGN FOR WATER POLLUTION CONTROL FACILITIES. THE CONTRACTOR SHALL BE PAID HIS BID PRICE FOR PVC PIPE. IN CASE NO BID PRICE HAS BEEN ESTABLISHED, A PRICE SHALL BE AGREED UPON PRIOR TO PERFORMING THE WORK.
4. POTABLE WATER PIPES AND SEWERS LAID PARALLEL TO EACH OTHER SHALL BE IN SEPARATE TRENCHES WITH UNDISTURBED EARTH BETWEEN IN ADDITION TO HAVING A MINIMUM HORIZONTAL SPACING OF AT LEAST TEN (10) FEET AS MEASURED FROM EDGE TO EDGE.
5. IN CASES WHERE THE GRAVITY SEWER LINE IS ABOVE THE WATER LINE, THE SEWER LINE SHALL BE ENCASED WITH SIX (6) INCHES OF CONCRETE TO A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE WATER LINE.
6. AT PLACES WHERE THE EXCAVATION INTERSECTS WITH EXISTING GAS LINES, THE CONTRACTOR SHALL NOTIFY THE OWNER SO THE GAS LINE CAN BE INSPECTED BEFORE BACK-FILLING. THE TRENCH BACK-FILL SHALL BE HAND COMPACTED FOR THREE (3) FEET IN EITHER DIRECTION TO AN ELEVATION OF 1 FOOT ABOVE THE GAS LINE. BACK-FILL WITH ORIGINAL MATERIAL, SAND, OR LIMESTONE SCREENINGS.
7. ALL EXISTING WATER LINE AND VALVE LOCATIONS SHOWN HAVE BEEN INTERPRETED FROM THE BEST INFORMATION AVAILABLE. THE ACTUAL NUMBER, LOCATIONS AND SIZES MAY VARY AND CONTRACTOR SHALL ANTICIPATE THIS.
8. UTILITIES SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM INFORMATION PROVIDED BY OWNERS. FOR ACTUAL FIELD LOCATIONS CALL 811 OR 1-800-522-6543 PRIOR TO EXCAVATION.
9. PROPERTY PINS DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
10. ALL PUBLIC AND PRIVATE PROPERTY, SUCH AS UTILITIES, ROADS, DRIVES, MAIL BOXES, FENCES, POLES, ETC., DAMAGED AS A RESULT OF CONSTRUCTION, SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. ALL TREES OR SHRUBS, DAMAGED AS A RESULT OF CONSTRUCTION, THAT ARE NOT SCHEDULED FOR REMOVAL SHALL BE REPLACED, IN KIND AND SIZE, BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
11. ALL PAVEMENT CROSSINGS ARE TO BE BORED AND ENCASED. ALL GRAVEL SURFACE CROSSINGS ARE TO BE ENCASED.
12. PROPOSED WATER LINES ARE SHOWN WITH AN APPROXIMATE ALIGNMENT, ACTUAL INSTALLATION SHALL FOLLOW EASEMENT RESTRICTIONS.
13. CONTRACTOR IS PROHIBITED FROM BORING BENEATH EXISTING STRUCTURES.
14. EXCEPT WHERE SPECIFICALLY NOTED, WATERLINE CASING MAY BE EITHER STEEL OR PLASTIC.
15. ALL YARDS SHALL BE CLEANED UP AND RESEEDED WITHIN SEVEN (7) DAYS OF INSTALLATION OF WATERLINE.
16. ALL DISTRIBUTED AREAS, EXCEPT IN YARDS, SHALL BE CLEANED UP, SEEDED AND MULCHED, IF IN RESEEDING MONTHS, WITHIN 30 DAYS INSTALLATION OF WATERLINE.
17. DRIVEWAY SHALL BE BACKFILLED IMMEDIATELY TO ALLOW THRU TRAFFIC.
18. ALL FITTINGS ARE HAVE RESTRAINED JOINTS WITH STAINLESS STEEL BOLTS.
19. CONTRACTOR SHALL CONDUCT A CONDUCTIVITY TEST ON ALL TRACER WIRE INSTALLED.

CITY OF GLENPOOL "OAK STREET" SANITARY SEWER LIFT STATION UPGRADES TULSA COUNTY, OK





D:\PROJECTS\JUSTIN GORMAN - 2019-GLENPOOL-03-001\CAD\LIFT STATION.DWG
 LAYOUT: SITE PLAN
 DATE: 5/16/2019
 BY: DEBORAH SMITH
 XREF DWG1: NONE
 XREF DWG2: NONE
 XREF DWG3: NONE

Designed By: <u>DLC</u>	7				
Drawn By: <u>JS</u>	6				
Checked By: <u>DLC</u>	5				
Issue Date: <u>5/16/2019</u>	4				
	3				
	2				
	1				
REV.	DATE	REVISIONS	BY	APP'D	



Midwest
 ENGINEERING GROUP, LLC
 7436 1000 Rd Fredonia, KS 66736
 TEL: 918.264.9405

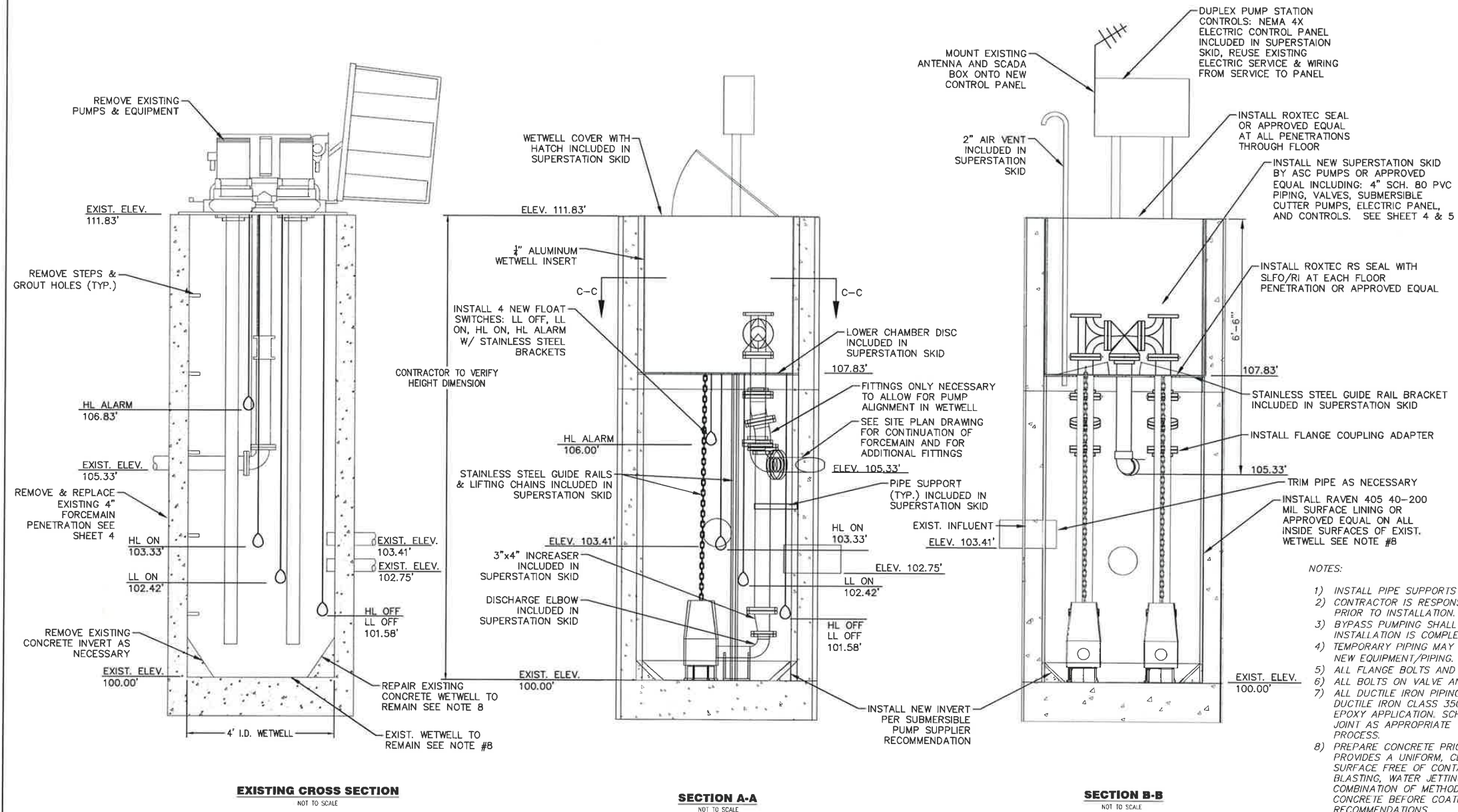
CITY OF GLENPOOL
 "OAK STREET" SANITARY SEWER LIFT STATION UPGRADES
 LIFT STATION - SITE PLAN

NOTES:

PROJECT NO.
 2019-GLENPOOL-03-001
 SHEET NO.
 2



NOTE:
 1) MINIMIZE FORCEMAIN TIE-IN LENGTH AND EXCAVATION.



D:\PROJECTS\JULIAN GORMAN - 2019-GLENPOOL-03-001\CAD\LIFT STATION.DWG
LAYOUT: SECTIONS
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE

Designed By: <u>DLC</u>	7				
Drawn By: <u>JSG</u>	6				
Checked By: <u>DLC</u>	5				
Issue Date: <u>###</u>	4				
	3				
	2				
	1				
REV	DATE	REVISIONS	BY	APP'D	



7436 1000 Rd Fredonia, KS 66736
TEL: 918.264.9405



CITY OF GLENPOOL
"OAK STREET" SANITARY SEWER LIFT STATION UPGRADES

LIFT STATION CROSS SECTION

NOTES:

PROJECT NO.
2019-GLENPOOL-03-001
SHEET NO.

3

D:\PROJECTS\JULIAN CORNAN - 2019-GLENPOOL-03-001\CAD\LIFT STATION.DWG
LAYOUT: PLAN
BY: DEGRANDT
DATE: 9/16/2019
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE

Designed By: <u>DLC</u>	7				
	6				
Drawn By: <u>JSB</u>	5				
	4				
Checked By: <u>DLC</u>	3				
	2				
Issue Date: <u>###</u>	1				
REV.	DATE	REVISIONS	BY	APP'D	



7436 1000 Rd Fredonia, KS 66736
TEL: 918.264.9405



CITY OF GLENPOOL
"OAK STREET" SANITARY SEWER LIFT STATION UPGRADES

LIFT STATION PLAN VIEW

NOTES:

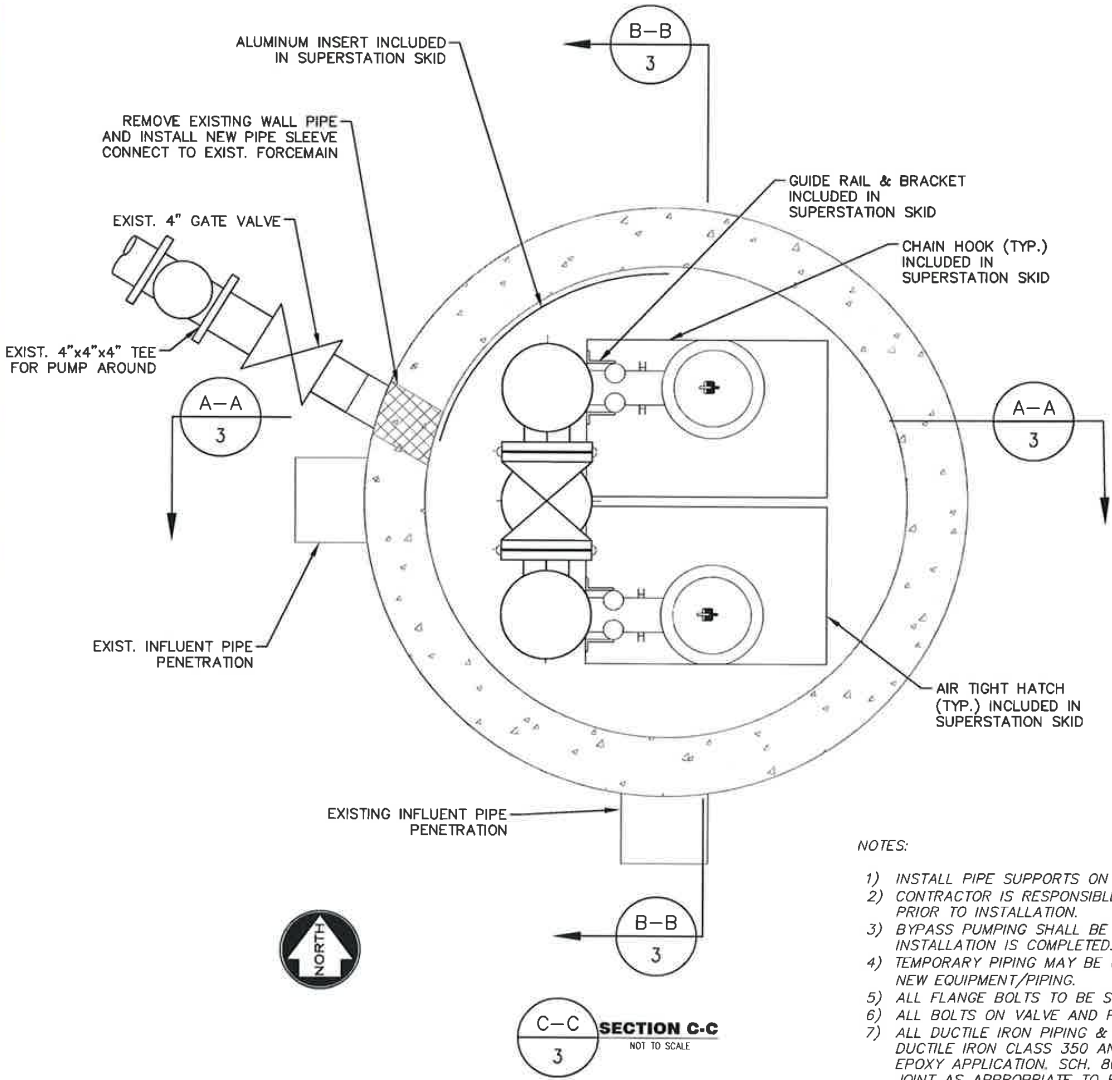
PROJECT NO.
2019-GLENPOOL-03-001
SHEET NO.

4

REMOVE & REPLACE EXISTING
DIP PIPING AND FORCEMAIN
WALL PIPE. REPAIR CONCRETE
AS NECESSARY. SEE NOTE #8



EXISTING VALVE VAULT
NOT TO SCALE



NOTES:

- 1) INSTALL PIPE SUPPORTS ON VERTICAL PIPING 2' O.C.
- 2) CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION.
- 3) BYPASS PUMPING SHALL BE PROVIDED BY CONTRACTOR UNTIL INSTALLATION IS COMPLETED.
- 4) TEMPORARY PIPING MAY BE USED TO ASSIST INSTALLATION OF NEW EQUIPMENT/PIPING.
- 5) ALL FLANGE BOLTS TO BE STAINLESS STEEL.
- 6) ALL BOLTS ON VALVE AND PUMP EQUIPMENT TO BE STAINLESS STEEL.
- 7) ALL DUCTILE IRON PIPING & FITTINGS TO BE CEMENT LINED DUCTILE IRON CLASS 350 AND TO BE PAINTED WITH 3 COAT EPOXY APPLICATION. SCH. 80 PVC TO BE FLANGED OR GLUE JOINT AS APPROPRIATE TO BE DETERMINED DURING SUBMITTAL PROCESS.
- 8) PREPARE CONCRETE PRIOR TO COATING IN A MANNER THAT PROVIDES A UNIFORM, CLEAN, DRY, SOUND AND NEUTRALIZED SURFACE FREE OF CONTAMINANTS BY ABRASIVE BLASTING, SHOT BLASTING, WATER JETTING, HIGH PRESSURE WASHING, OR A COMBINATION OF METHODS. REPAIR ALL INCONSISTENCY IN CONCRETE BEFORE COATING APPLICATION. FOLLOW MANUFACTURE RECOMMENDATION.

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LAYOUT: BOM
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE
BY: DEBORAH SMITH
DATE: 5/16/2019

Designed By: <u>DLC</u>	7				
Drawn By: <u>JSG</u>	6				
	5				
Checked By: <u>DLC</u>	4				
	3				
Issue Date: <u>###</u>	2				
	1				
REV.	DATE	REVISIONS	BY	APP'D	



Midwest
ENGINEERING
GROUP, LLC

7436 1000 Rd Fredonia, KS 66736
TEL: 918.264.9405

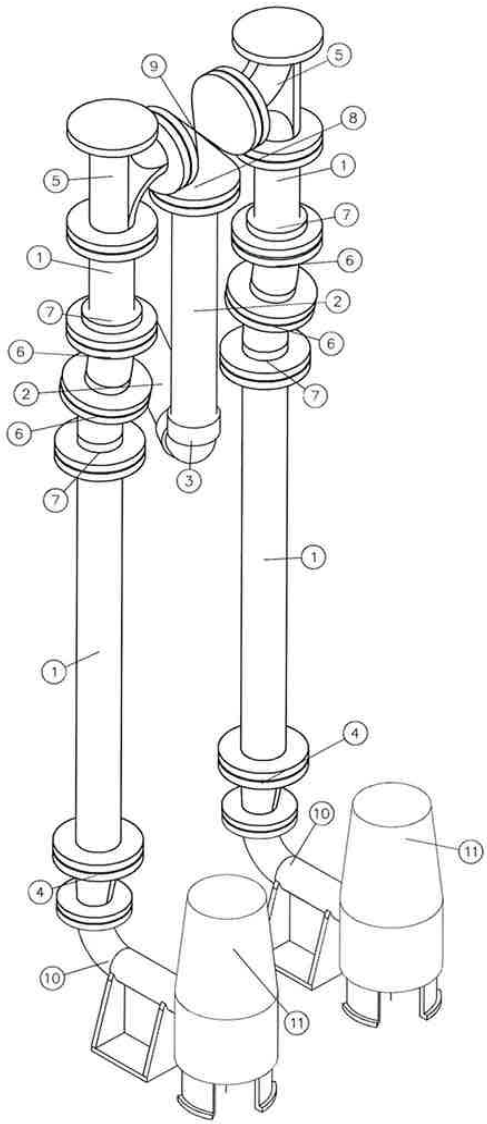


CITY OF GLENPOOL
"OAK STREET" SANITARY SEWER LIFT STATION UPGRADES

LIFT STATION BILL OF MATERIAL

NOTES:

PROJECT NO.
2019-GLENPOOL-03-001
SHEET NO.
5



ISOMETRIC-BOM
NOT TO SCALE

BILL OF MATERIAL					
HEAT#	MARK	QTY	SIZE	DESCRIPTION	LENGTH
	1	1	4"	DI, AWWA C151, FLGxPE, 150 PSI FLANGE, 350 PSI PIPE, CLASS 50R SCH 80 PVC	119.39
	2	1	4"	PIPE, SCH 80, PVC,(OR DI, AWWA C110 OR C153)	49.36
	3	1	4"	ELL, 90 DEG, SCH 80, SOC X SOC, PVC, (OR DI, AWWA C110 OR C153)	
	4	2	4"x3"	DI, AWWA C110 OR C153, FLG, 150 PSI, ECC. REDUCER	
	5	2	4"	DI, AWWA C110 OR C153, FLG, 150 PSI, DISCHARGE CHECK VALVE	
	6	4	4"	DI, AWWA C110 OR C153, FLG, 150 PSI, 11.25 ELL (OR SCH 80 PVC)	
	7	4	4"	DI, FLG, 150 PSI, FLANGED COUPLING ADAPTOR (OR SCH 80 PVC)	
	8	1	4"	DI, FLG, 150 PSI, MEGA FLANGED ADAPTOR (OR SCH 80 PVC)	
	9	1	4"	3-WAY DISCHARGE MANIFOLD/PLUG VALVE,FLGxFLG,150 PSI, PRATT BALLCENTRIC	
	10	2	3"	DISCHARGE BASE ELBOW	
	11	2	4"	SUBMERSIBLE CUTTER PUMP	

- NOTES:
- 1) BOM IS INTENDED TO ASSIST IN IDENTIFYING FITTING AND VALVES. IT IS NOT INTENDED TO INCLUDE ALL COMPONENTS, DIMENSIONS MAY VARY BASED ON MANUFACTURE.
 - 2) FIELD VERIFY LENGTH REQUIRED.
 - 3) TEMPORARY PIPING MAY BE USED TO ASSIST INSTALLATION OF NEW EQUIPMENT AND PIPING.
 - 4) VERIFY CONCENTRICITY/ECCENTRICITY OF REDUCER WITH SUBMERSIBLE PUMP MANUFACTURER.
 - 5) ALL FLANGE BOLTS TO BE STAINLESS STEEL.
 - 6) ALL BOLTS ON VALVE AND PUMP EQUIPMENT TO STAINLESS STEEL.
 - 7) ALL DUCTILE IRON PIPING & FITTINGS TO BE CEMENT LINED, DUCTILE IRON CLASS 350 AND TO BE PAINTED WITH 3 COAT EPOXY APPLICATION. SCH 80 PVC TO BE FLANGED OR GLUE JOINT AS APPROPRIATE TO BE DETERMINED DURING SUBMITTAL PROCESS.

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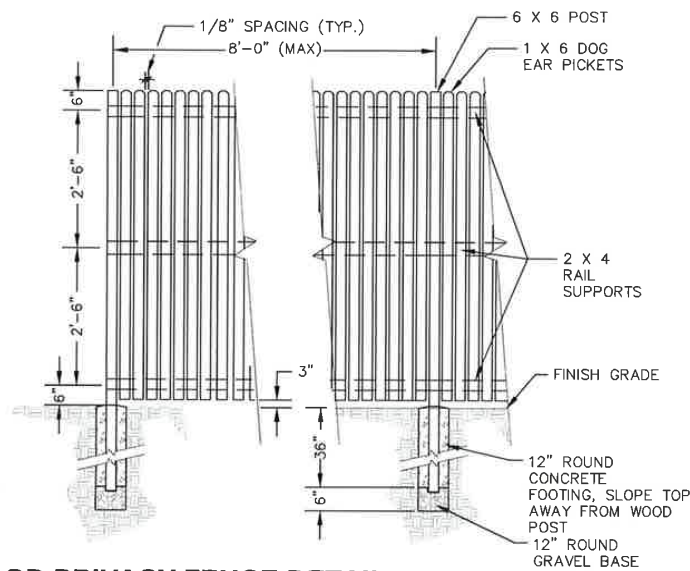
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CITY OF GLENPOOL
"OAK STREET" SANITARY SEWER LIFT STATION UPGRADES
MISC. DETAILS

NOTES:

PROJECT NO.
2019-GLENPOOL-03-001
SHEET NO.
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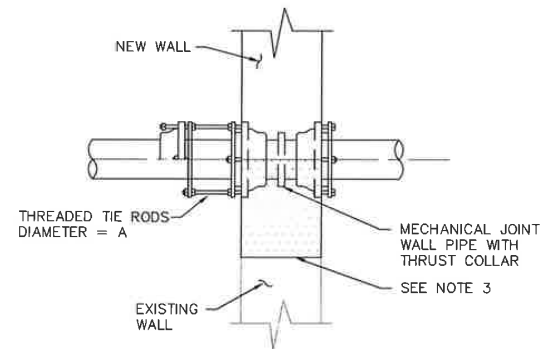


WOOD PRIVACY FENCE DETAIL

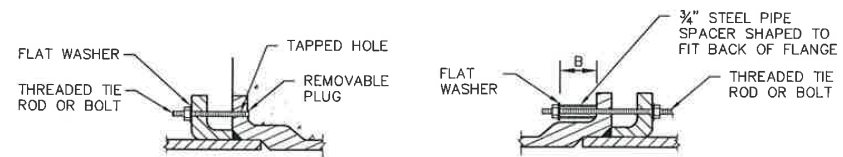
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WOOD FENCE NOTES:

1. FENCE LUMBER TO BE ACQ TREATED OR APPROVED EQUAL.
2. USE TWO HOT-DIPPED GALVANIZED SPIRAL SHANK DECK/PATIO NAILS AT EACH CONNECTION.
3. AT POSTS, NAILS SHALL BE 16d AND AT PICKETS NAILS SHALL BE 10d.



PIPE SIZE	A TIE ROD DIAMETER	B SPACER LENGTH	MIN. NO. OF TIE RODS
4" TO 12"	5/8"	2 1/2"	2
14" TO 24"	5/8"	3 1/2"	6



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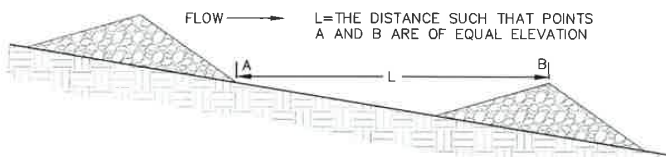
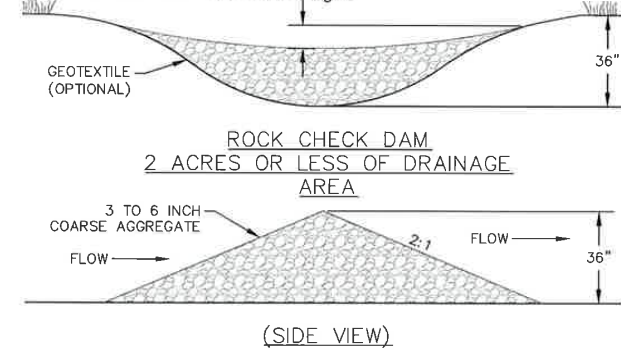
1. EXCEPT WHERE TIE RODS ARE REQUIRED, BOLTS FOR FOLLOWER RINGS SHALL BE BOLT-STUDS ON WALL PIPES AND TEE HEAD BOLTS IN OTHER LOCATIONS.
2. ALL BOLT HOLES IN WALL PIPES SHALL BE TAPPED AND SIZED IN ACCORDANCE WITH COLUMN A. WALL PIPES SHALL BE ORIENTED SUCH THAT THE BOLT HOLES STRADDLE THE TOP (SIDE IN VERTICAL PIPING) CENTERLINE.
3. CUT OUT EXISTING CONCRETE WALL AND INSTALL NEW WALL PIPE WITH EPOXY GROUT.

MECHANICAL JOINT WALL PIPE

NOT TO SCALE

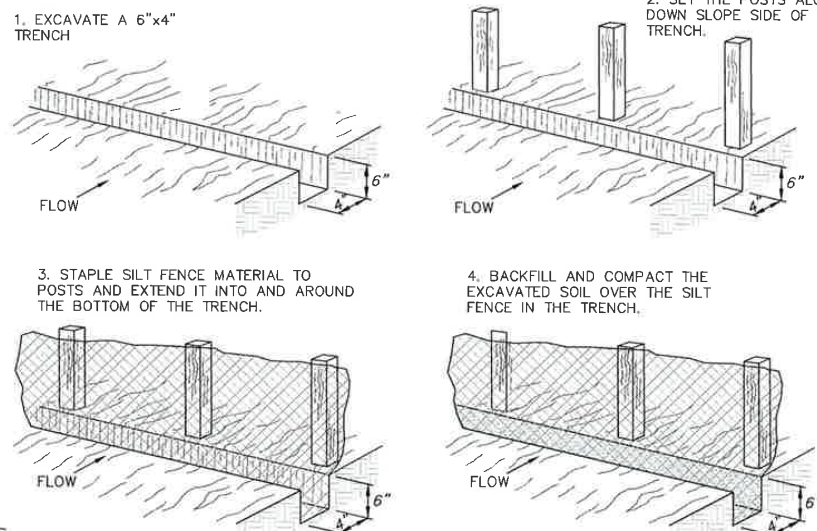
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LAYOUT: 03-DETAILS-3
DATE: 5/16/2019
BY: DEBORAH SMITH
APP'D: NONE
REF DWG1: NONE
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- ROCK CHECK DAM NOTES:**
- A) CONSTRUCTION SPECIFICATIONS AND INSTALLATION:**
1. THE DRAINAGE AREA OF THE DITCH OR SWALE BEING PROTECTED SHALL NOT EXCEED 2 ACRES WHEN A COARSE AGGREGATE IS USED ALONE AND SHALL NOT EXCEED 10 ACRES WHEN A COMBINATION OF CLASS-1 RIPRAP AND COARSE AGGREGATE IS USED. AN EFFORT SHOULD BE MADE TO EXTEND THE STONE TO THE TOP OF CHANNEL BANKS.
 2. THE MAXIMUM HEIGHT OF THE DAM SHALL BE 3 FEET. THE CENTER OF THE CHECK DAM IS AT THE SAME ELEVATION AS THE TOP OF THE OUTER EDGES.
 3. FOR ADDED STABILITY, THE BASE OF THE CHECK DAM CAN BE KEYED INTO THE SOIL APPROXIMATELY 6 INCHES.
 4. THE MAXIMUM SPACING BETWEEN THE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS DOWNSTREAM DAM.
 5. STONE SHOULD BE PLACED ACCORDING TO THE CONFIGURATION BELOW. HAND OR MECHANICAL PLACEMENT WILL BE NECESSARY TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
 6. GEOTEXTILE MAY BE USED UNDER THE STONE TO PROVIDE A STABLE FOUNDATION AND TO FACILITATE REMOVAL OF THE STONE.
- B) INSPECTION AND MAINTENANCE:**
1. CHECK DAMS SHOULD BE CHECKED FOR SILT ACCUMULATION AFTER EACH STORM EVENT 1/2-INCH OR GREATER. SILT SHOULD BE REMOVED WHEN IT REACHES ONE HALF OF THE ORIGINAL HEIGHT OF THE DAM.
 2. REGULAR INSPECTIONS SHOULD BE MADE TO ENSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES. EROSION CAUSED BY HIGH FLOWS AROUND THE EDGES OF THE DAM SHOULD BE CORRECTED.
- C) REMOVAL OF PRACTICE:**
1. UNLESS THEY ARE TO BE PERMANENT, CHECK DAMS MUST BE REMOVED WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED. IN TEMPORARY DITCHES AND SWALES, CHECK DAMS SHOULD BE REMOVED WHEN A PERMANENT LINING CAN BE INSTALLED. IN THE CASE OF GRASS-LINED DITCHES, CHECK DAMS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAMS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE REMOVED. THE USE OF FILTER CLOTH UNDERNEATH THE STONE WILL MAKE REMOVAL OF THE STONE EASIER.



ROCK CHECK DAM
NOT TO SCALE

- GENERAL EROSION CONTROL NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE STORM WATER POLLUTION PREVENTION PLAN (PPP) AT THE TIME THE PROJECT BREAKS GROUND. A COPY OF THE PPP SHALL BE AVAILABLE ON SITE AT ALL TIMES. THE PLAN SHOULD FOLLOW CLOSELY TO THE E.P.A. GUIDANCE DOCUMENT, STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES - DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES, U.S. E.P.A., OFFICE OF WATER, EPA 832-R-92-005 (SEPTEMBER 1992).
 2. THE EROSION CONTROL FEATURES, NOTES AND SPECIFICATIONS IN THE PPP REPRESENT THE MINIMUM REQUIREMENTS ACCEPTABLE. LOCATIONS ARE TYPICAL AND MAY VARY ACCORDING TO CONTRACTORS STAGING AND LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL ADJUST, MODIFY AND ADD TO THE PLAN AS NECESSARY TO CONTROL EROSION, SILTATION AND POLLUTION.
 3. IT SHALL BE EACH CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION AND PREVENT POLLUTION FOR ALL WORK WHICH THEY ARE DIRECTLY INVOLVED.
 4. EROSION CONTROL DEVICES ALONG THE DOWN SLOPE SIDE OF THE PROJECT SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY GRADING WORK.
 5. WHEN POSSIBLE, WITHOUT ADVERSELY AFFECTING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL: MINIMIZE THE AMOUNT OF SURFACE AREA WHICH IS EXPOSED AT ONE TIME, LEAVE GRADED AREAS WITH A ROUGH TEXTURE, CONSTRUCT TEMPORARY TERRACES DURING GRADING OPERATIONS, AND LIMIT UNNECESSARY VEHICLE TRAFFIC IN GRADED AREAS.
 6. THE SPILLAGE OF DEBRIS, INCLUDING THE TRACKING OF SOIL, OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE AVOIDED. THEREFORE THE CONTRACTOR SHALL PROVIDE STABILIZED DRIVES AT ALL ACCESS LOCATIONS AS NECESSARY AND SHALL REMOVE PROMPTLY ANY MATERIAL WHICH FINDS ITS WAY INTO THE PUBLIC RIGHT-OF-WAY.
 7. STRAW BALE DIKES OR SILT FENCES SHALL BE PLACED ON A CONTOUR ELEVATION ALONG THE DOWNHILL SIDE AND FOR THE FULL EXTENT OF THE DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS. THE LAST FIVE FEET ON EACH END OF RUN OF SILT FENCE/STRAW BALE DIKE SHALL BE PLACED FACING UPHILL AT 90 DEGREES TO THE CONTOUR LINE.
 8. THE CONTRACTOR SHALL PREVENT SILT FROM ENTERING THE STORM SEWER SYSTEM. STRAW BALE DIKES/SILT FENCE PLACED AROUND ALL STORM SEWER INLETS EXCEPT DURING CONSTRUCTION OPERATIONS WHICH REQUIRE THEIR REMOVAL IS ONE METHOD OF MEETING THE ABOVE REQUIREMENT.
 9. EACH CONTRACTOR SHALL INSPECT THEIR EROSION CONTROL DEVICES EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH. THE CONTRACTOR SHALL REPAIR DAMAGE, CLEAN OUT SILT AND ADD ADDITIONAL CONTROL DEVICES AS NEEDED AS SOON AS PRACTICABLE AFTER INSPECTION. DEFICIENCIES MUST BE CORRECTED WITHIN 7 DAYS OF INSPECTION.
 10. ALL AREAS UPON REACHING FINAL GRADE SHALL BE BROUGHT TO FINAL PLAN CONDITION (PAVED, MULCHED AND SEEDED, SODDED, OR OTHER) AS SOON AS POSSIBLE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL COVER WITH A DENSITY OF 70 % (MINIMUM) FOR UNPAVED AREAS IS ESTABLISHED.
 11. WHERE GRADED AREAS DRAIN ONTO PAVED AREAS, SILT FENCE/STRAW BALE DIKE SHALL BE PLACED AT THE BACK OF CURB TO PREVENT SILT FROM ENTERING THE PAVED AREAS. WHEN THESE EROSION CONTROL DEVICES ARE NOT PLACED ON THE CONTOUR, THEN THEY SHALL HAVE INSTALLED AT 50' INTERVALS A 5' LENGTH PLACED AT 90 DEGREES TO THE MAIN LENGTH.



SILT FENCE DETAIL
NOT TO SCALE

- SILT FENCE NOTES:**
- A) INSTALLATION**
1. THE HEIGHT OF SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT EXCEED 34 INCHES ABOVE THE GROUND SURFACE.
 2. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE UNAVOIDABLE, FILTER CLOTH SHALL BE SECURELY SPLICED TOGETHER ONLY AT SUPPORT POSTS, WITH A MAX 6 INCH OVERLAP.
 3. DIG A TRENCH AT LEAST 6 INCHES DEEP AND 4 INCHES WIDE ALONG THE TRENCH ALIGNMENT.
 4. DRIVE POSTS AT LEAST 24 INCHES INTO THE GROUND ON THE DOWNSLOPE SIDE OF THE TRENCH. SPACE POSTS A MAXIMUM OF 6 FEET APART.
 5. EXTRA-STRENGTH SEDIMENT FENCE FABRIC SHALL BE USED. POST FOR THIS TYPE OF FABRIC SHALL BE PLACED A MAXIMUM OF 6 FEET APART. THE SEDIMENT FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING A MINIMUM OF ONE INCH LONG HEAVY-DUTY WIRE STAPLES OR TIE-WIRES, AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 6. PLACE THE BOTTOM 1 FOOT OF FABRIC IN THE MINIMUM-OF-6-INCH DEEP TRENCH, LAPPING TOWARD THE UPSLOPE SIDE. BACKFILL WITH COMPACTED EARTH OR GRAVEL.
 7. IF A SILT FENCE IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, IT MUST BE OF SUFFICIENT LENGTH TO ELIMINATE ENDFLOW, AND THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE, PLACED ON A CONTOUR, WITH THE ENDS ORIENTED UPSLOPE. EXTRA-STRENGTH SILT FABRIC SHALL BE USED WITH A MAXIMUM 3-FOOT SPACING OF POSTS.
 8. TO REDUCE MAINTENANCE, EXCAVATE A SHALLOW SILT STORAGE AREA IN THE UPSLOPE SIDE OF THE FENCE. PROVIDE GOOD ACCESS IN AREA OF HEAVY SILTATION FOR CLEAN OUT AND MAINTENANCE.
 9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- B) TROUBLESHOOTING:**
1. DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES, BEFORE FENCE INSTALLATION SO UTILITIES ARE NOT DISTURBED.
 2. GRADE ALIGNMENT OF FENCE NEEDED TO PROVIDE A BROAD, NEARLY LEVEL AREA UPSTREAM OF FENCE TO ALLOW SILT COLLECTION AREA.
- C) INSPECTION MAINTENANCE:**
1. INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
 2. SHOULD THE FABRIC OF A SILT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
 3. REMOVE SILT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. AVOID DAMAGING OR UNDERMINING THE FENCE DURING CLEANOUT. SILT ACCUMULATION SHOULD NOT EXCEED 1/2 THE HEIGHT OF THE FENCE.
 4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SILT DEPOSITS, AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY AND COMPLETELY STABILIZED.

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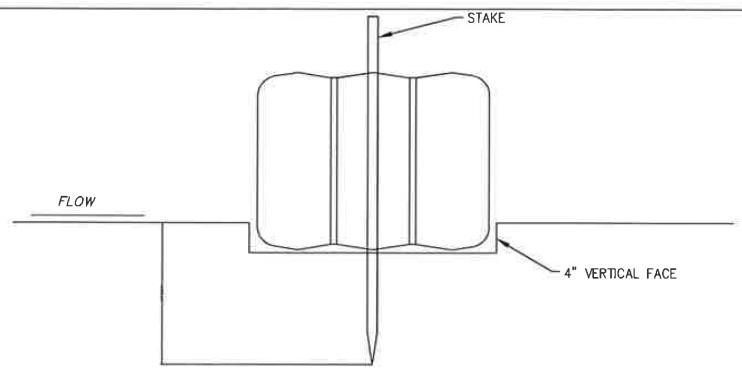


CITY OF GLENPOOL
"OAK STREET" SANITARY SEWER LIFT STATION UPGRADES
MISC. DETAILS

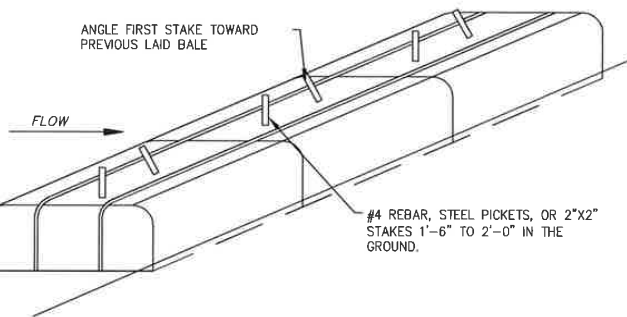
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2019-GLENPOOL-03-001
SHEET NO.

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EMBEDDING DETAIL

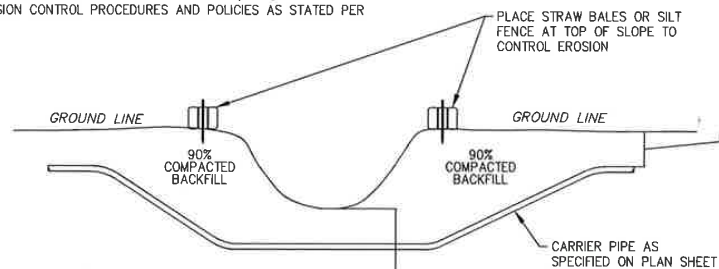


ANCHORING DETAIL

1 STRAW BALE DETAIL SCALE: NTS

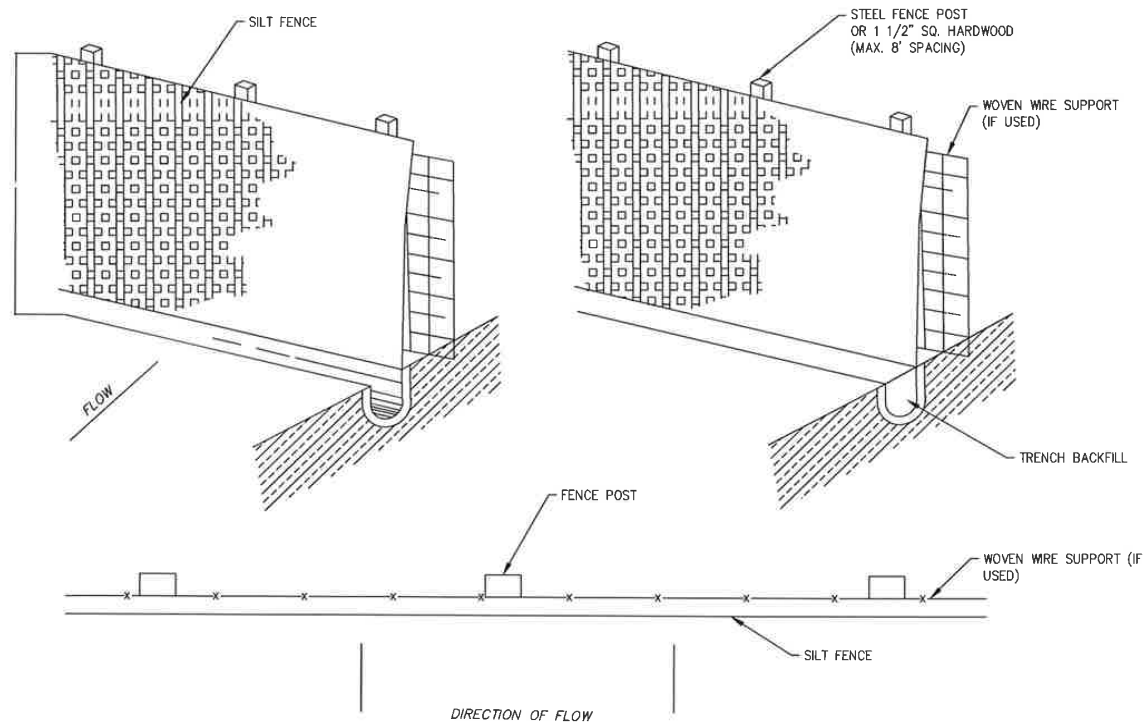
NOTES: DRY CREEK/SLOUGH CROSSING:

1. GRADING & SEEDING WILL BE REQUIRED.
2. COMPACT BACK FILL TO 90% STANDARD DENSITY.
3. MINIMUM OF 42" OF COVER AT BOTTOM OF CROSSING.
4. CROSSINGS ARE SUBJECT TO PERMIT LIMITATIONS AND MITIGATION MEASURES. COPIES OF THESE MEASURES ARE AVAILABLE UPON REQUEST.
5. FOLLOW ALL EROSION CONTROL PROCEDURES AND POLICIES AS STATED PER PLAN.



GENERAL NOTES:

1. ALL BORES ARE TO BE DIRECTIONAL BORES, NO LARGE PITS ARE TO BE DUG.
2. WHILE TRENCHING OR OPEN CUTTING IN INSTALL WATER LINE, ANY SLOPE GREATER THAN 10% MUST HAVE SILT FENCE AND/OR STRAW BALES TO CONTROL THE EROSION.
3. CONTRACTOR IS TO FOLLOW THE STORM WATER POLLUTION AND PREVENTION PLAN AT ALL TIMES.
4. ALL CROSSINGS ARE TO BE INSPECTED BY RESIDENT INSPECTOR AFTER COMPLETION.



2 SILT FENCE DETAIL SCALE: NTS

CONSTRUCTION SPECIFICATIONS:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE AND SPACED AT A MAX. 8' APART OR TO SILT FENCE MANUFACTURER SPECIFICATIONS, WHICHEVER IS STRICTER.
2. SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWN SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. THE TRENCH SHOULD BE APPROXIMATELY 8" DEEP 3-4" WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE GROUND AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE WHICH IS IN TURN ATTACHED TO THE FENCE POSTS, AND SHOULD NOT EXCEED 18" ABOVE THE GROUND SURFACE.
5. WOVEN WIRE SUPPORT SHALL BE A MINIMUM 12 GAUGE WITH A MAXIMUM OF 6"x6" OPENING. WOVEN WIRE SUPPORT SHALL BE INSTALLED FOR FLOWS LONGER THAN 200 FEET.
6. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
7. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
8. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE UNIFORMLY DISTRIBUTED ON THE SOURCE AREA PRIOR TO TOPSOILING.
9. SILT FENCE SHALL BE MIRAFI-100X FILTER FABRIC OR APPROVED EQUAL.

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CITY OF GLENPOOL "OAK STREET" SANITARY SEWER LIFT STATION UPGRADES
MISC. DETAILS

NOTES:

PROJECT NO. 2019-GLENPOOL-03-001
SHEET NO. 8

TYPE "B" FRAME (RING) & COVER

BRICK MASONRY OR PRECAST RING (MORTARED)

1" MIN. 4" BRICKS MAX.

2'-5 1/4"

PICKUP HOLES

THICKNESS 5" MINIMUM

PRECAST MANHOLES

4'-0"

5'-0" STD. PRECAST CONE SECTION 3" - 6"

CONCENTRIC CONE

TYPE "B" FRAME (RING) & COVER

BRICK MASONRY OR PRECAST RING (MORTARED)

1" MIN. 4" BRICKS MAX.

2'-5 1/4"

PICKUP HOLES

THICKNESS 5" MINIMUM

PRECAST MANHOLES

4'-0"

5'-0" STD. PRECAST CONE SECTION ECCENTRIC

ECCENTRIC CONE

RUBBER RING

The image contains two technical drawings of cone structures, labeled 'CONCENTRIC CONE' and 'ECCENTRIC CONE'.

CONCENTRIC CONE: This diagram shows a cross-section of a cone with a central rectangular opening. The top is a flat slab. The sides are sloped. The bottom is a wider base. Labels include:

- TYPE "B" FRAME (RING) & COVER (pointing to the top slab)
- FRAME TO BE SET IN CEMENT GROUT WHERE ADJUSTING RING OF BRICK MASONRY ARE NOT REQUIRED (pointing to the top slab)
- THICKNESS VARIES (SEE GENERAL NOTES) (pointing to the top slab)
- PICKUP HOLES (pointing to the top slab)
- PRECAST TOP FURNISHED WITH PICKUP HOOKS (pointing to the top slab)
- RUBBER RING JOINTS (pointing to the base)
- STD PRECAST CONE SECTION 3'-0" (pointing to the height)
- 2'-5 1/4" (pointing to the width of the top opening)

ECCENTRIC CONE: This diagram shows a cross-section of a cone with a central rectangular opening. The top is a flat slab. The sides are sloped. The bottom is a wider base. Labels include:

- TYPE "B" FRAME (RING) & COVER (pointing to the top slab)
- BRICK MASONRY (pointing to the top slab)
- THICKNESS VARIES (SEE GENERAL NOTES) (pointing to the top slab)
- PICKUP HOLES (pointing to the top slab)
- RUBBER RING JOINTS (pointing to the base)
- STD PRECAST CONE SECTION 3'-0" (pointing to the height)
- MIN. (pointing to the top slab)
- MAX. (pointing to the top slab)
- 2'-5 1/4" (pointing to the width of the top opening)

STANDARD FOR LARGER THAN 4' DIA. MANHOLE WALL

STANDARD BOTTOM

RUBBER RING JOINTS

THICKNESS VARIES (SEE GENERAL NOTES)

5'-0" 6'-0" OR 7'-0"

STANDARD BOTTOM

NOTE

1. ALL PIPE SHALL BE STAINLESS STEEL
2. NEOPRENE-EPDM BLENDED COMPOUND BOOT SHALL MEET ASTM C-923

WATER TIGHT SEAL

LOCATION & SIZE OF ALL OPENINGS FOR DROP CONNECTIONS SHALL BE SHOWN IN THE SHOP - OPENING WILL BE SCORED & MARKED

ENCASE DROP CONNECTION TO SPRINGLINE WITH 4000 PSI CONCRETE

SUPPORT STRAPS

WHERE APPLICABLE, PROVIDE INLET THROUGH MANHOLE WALL IN ACCORDANCE WITH THE STANDARD DETAIL FOR PIPE CONNECTIONS

4000 PSI CONCRETE

SECTION A-A

**BASE RISER SECTION WITH MASTIC SEALER
OPTION "A"**

A technical diagram showing a cross-section of two concrete walls. A circular hole is being cut into the center of the walls. The hole has a diameter of 12 inches, indicated by a dimension line labeled $\phi 12" \pm 4"$. The hole is filled with a material labeled "MORTAR". The walls are shown with hatching. A large red 'X' is drawn over the entire diagram, indicating that this practice is not to be done.

NOTE: SHOP SHALL SCORE CONCRETE WALLS TO DIMENSIONS SHOWN
REINFORCING TO BE CUT ON JOB SITE

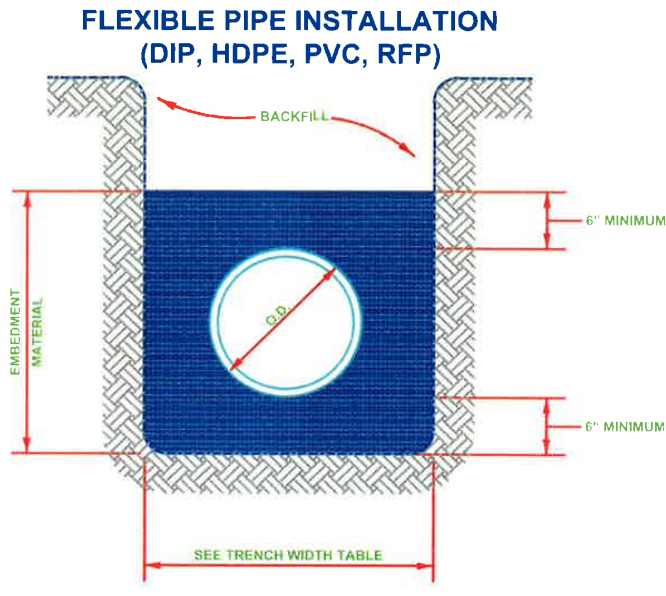
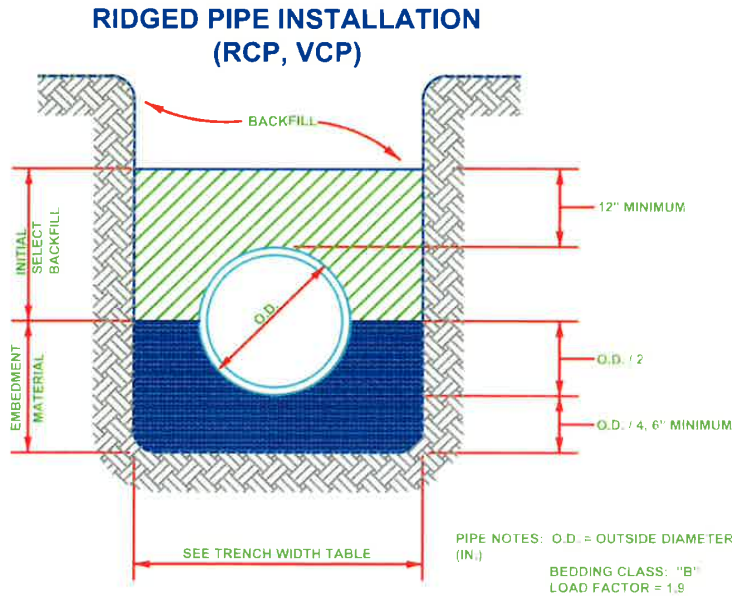
SUGGESTED PIPE O.D. RANGE (IN)	HOLE & BOOT DIAMETER DIMENSIONS			
	A	B	C	D
3 1/2" - 4 1/2"	7"	6 5/8"	4 1/4"	8"
5 3/8" - 7"	12"	10 7/8"	6 1/2"	8"
7" - 8 1/2"	12"	10 7/8"	8"	8"
8 3/4" - 9 3/4"	12"	10 7/8"	9 1/4"	8"
9 1/4" - 11"	16"	14 7/8"	10 1/2"	8"
10 1/4" - 11"	16"	14 7/8"	12"	8"
12" - 13 3/4"	16"	14 7/8"	13 1/4"	8"
14 1/2" - 16 1/4"	20"	18 7/8"	15 3/4"	8"
15 3/4" - 17 1/2"	20"	18 7/8"	17"	8"
19 1/2" - 21 1/4"	24"	22 7/8"	20 3/4"	8"

Diagram illustrating the structure of a manhole, showing the following components and dimensions:

- INVERTS AND BENCHES**: The top layer, shown with a diameter of 6".
- BASE SLAB**: The middle layer, shown with a thickness of 6".
- 6" CRUSHED ROCK FOUNDATION**: The bottom layer, shown with a thickness of 6".

Additional dimensions shown include 6" for the top layer, 6" for the base slab, and 6" for the crushed rock foundation. A red diagonal line is drawn across the diagram.

SANITARY SEWER STANDARD DETAILS FOR PRECAST REINFORCED CONCRETE MANHOLES															
CITY OF GLENPOOL, OKLAHOMA															
COMPANY NAME ADDRESS, ETC. ADDRESS, ETC.															
REVISION	BY	DATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">PLAN SCALE</td> <td style="width: 40%; padding: 5px;"> DRAWN: DESIGNED OFFICE ENGR. CHIEF ENGR. </td> <td style="width: 30%; padding: 5px;"> APPROVED CITY ENGINEERING DEPT DATE: </td> </tr> <tr> <td style="padding: 5px;">PROFILE SCALE</td> <td style="padding: 5px;">RECOMMENDED DIRECTOR</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">HORIZONTAL</td> <td style="padding: 5px;">RECOMMENDED</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">VERTICAL</td> <td style="padding: 5px;">ENGINEERING DIRECTOR</td> <td style="padding: 5px;"></td> </tr> </table>	PLAN SCALE	DRAWN: DESIGNED OFFICE ENGR. CHIEF ENGR.	APPROVED CITY ENGINEERING DEPT DATE:	PROFILE SCALE	RECOMMENDED DIRECTOR		HORIZONTAL	RECOMMENDED		VERTICAL	ENGINEERING DIRECTOR	
PLAN SCALE	DRAWN: DESIGNED OFFICE ENGR. CHIEF ENGR.	APPROVED CITY ENGINEERING DEPT DATE:													
PROFILE SCALE	RECOMMENDED DIRECTOR														
HORIZONTAL	RECOMMENDED														
VERTICAL	ENGINEERING DIRECTOR														
ATLAS PAGE NO.															



REINFORCED CONCRETE PIPE (RCP) MINIMUM PIPE DESIGN

1. HIGHWAYS -- Minimum pipe class for diameter twenty-four (24") inches to one-hundred-two (102") inches meeting the requirements of ASTM C-76 shall be as follows:

MAXIMUM DEPTH OF COVER (feet)	MINIMUM CLASS
10	III
10	III
10	III

For maximum depth of cover of thirty (30') feet, pipes ranging from twenty-four (24") inches to fifty-four (54") inches in diameter shall be designed and manufactured in accordance with ASTM C-655 and shall have the following minimum three-edge bearing strength for 0.01 crack (D 0.01) in pounds per lineal foot of inside diameter.

PIPE NOMINAL SIZE (in.)	D _{0.01} (lb./lineal ft. per ft. of inside diameter)
24	3200
27	3050
30	3050
33	3475
36	3475
42	3450
48	3300
54	3125

Pipes ranging in diameter from sixty (60") to one-hundred-two (102") inches in diameter shall be class V for a minimum depth of cover of thirty (30') feet when manufactured in accordance with ASTM C-76.

2. RAILROADS -- Minimum pipe class for E-80 Railroad live load pipe size twenty-four (24") inches to one-hundred-two (102") inches in diameter meeting the requirements of ASTM C-76, or ASTM C-655 shall be as follows:
- MAXIMUM DEPTH OF COVER TEN (10') FEET -- Diameters twenty-four (24") inches to one-hundred-two (102") inches shall be Class VI.
 - MAXIMUM DEPTH OF COVER FIFTEEN (15') FEET -- diameters twenty-four (24") inches to forty-two (42") inches shall be Class V and forty-eight (48") inches to one-hundred-two (102") inches shall be Class VI.
 - MAXIMUM DEPTH OF COVER TWENTY (20') FEET -- Diameter twenty-four (24") inches to one-hundred-two inches shall be class V.
 - MAXIMUM DEPTH OF COVER TWENTY-FIVE (25') FEET -- Diameter twenty-four (24") inches shall have D 0.01 of thirty-one-hundred (3100lb./l.f.) pound/lineal foot per foot of inside diameter. Diameters twenty-seven (27") inches to one-hundred-two (102") inches shall be Class VI.

PIPE NOMINAL SIZE (in.)	D _{0.01} (lb./lineal ft. per ft. of inside diameter)
24	3300
27	3125
30	3150
33	3575
36	3575
42	3550
48	3400
54	3225
60	3100

Diameters sixty-six (66") inches to one-hundred-two (102") inches shall be Class V.

BACKFILLING

1. DESCRIPTION -- Backfill is that portion of the total backfill down to but not including the pipe embedment material. The back fill shall be only material approved by the Engineer consisting of loose earth, free of clods, stones, organic matter, debris or other objectionable material. All backfilling shall be done in such a manner as not to disturb or injure the pipe or structures over or against which it is being placed. Any pipe or structure injured or moved from its proper line or grade during backfilling operations shall be opened up and repaired then rebackfilled as herein specified.
- The placing of backfill mater shall not begin until approved for so doing has been given by the Engineer, but backfilling about structures or portion of structures shall be done immediately when so ordered by the Engineer. The top surface of all slopes of all backfill shall be neatly graded off where selected topsoil, or sod or other material is removed and piled separately, such material shall be carefully replaced in a manner satisfactory to the Engineer. The top twelve inches of backfill shall be of as good quality as the original topsoil, which is removed.
2. COMPACTING REQUIREMENTS -- All backfill shall be placed and compacted in six (6") inch lifts for hand-tamped equipment and thirty (30") lifts of self-propelled or power driven equipment to the following minimum percent of Standard Proctor Density of Related Density as determined by ASTM D-698, "Test for Moisture-Density Relations of Soil and Soil Aggregate Mixtures", and ASTM D-2049 "Text for Relative Density of Cohesionless Soils", respectively. ASTM Test D-2049 shall be performed on cohesionless (Granular) soils. Cohesive backfill material shall reach the indicated compaction levels at plus (+) or minus (-) three (3%) percent of optimum moisture content. The lift thickness shall be reduced, if necessary, to meet the compaction requirements specified herein.

General Location	Percent Compaction (%)	
	Standard Proctor Density (ASTM D-698)	Standard Proctor Density (ASTM D-698)
Under Traffic Area or Improved Existing Surfaces	95	75
Urban & Residential Areas	90	70
Underdeveloped & Other Areas	85	70

3. COMPACTING METHODS -- Compacting methods may vary depending on the materials or as approved by the Engineer.
- a. COHESIVE MATERIALS -- Compaction of cohesive materials may be obtained by the use of impact type equipment in confined areas; pneumatic tampers and engine driven rammers may also be used. In relatively narrow trenches, self propelled rammers may also be used. In wide trenches, sheepfoot rollers may be used.

EMBEDMENT MATERIAL

Embedment is that material to be placed from a minimum of six (6") inches below bottom of the pipe to the springline (half pipe diameter) or to a minimum of six (6") inches above top of pipe for rigid and flexible pipes, respectively. the remaining material to be placed over the embedment is considered backfill.

MATERIAL MATERIAL REQUIREMENTS

1. GENERAL -- Embedment material for all rigid and flexible pipes shall be sand or in areas that is unstable crushed rock meeting the requirement of either ASTM D-2321, Class 1A, or ASTM C-33, Number 57 or 67 and graduations shown below:

Nominal Sieve Size	Percent Passing		
	ASTM D-2321 Class 1A	ASTM C-33 Number 57	ASTM C-33 Number 67
1 1/2 inch	100%	100%	100%
1 inch	100%	95 to 100%	100%
3/4 inch	100%	90 to 100%	100%
1/2 inch	100%	25 to 60%	100%
3/8 inch	100%	20 to 55%	100%
Number 4	≤ 10%	0 to 10%	0 to 10%
Number 8	≤ 5%	0 to 5%	0 to 5%
Number 200	≤ 5%	100%	100%

2. COMPACTION REQUIREMENTS -- All embedment material shall be placed in six (6") inch lifts to the following minimum percent of Standard Proctor Density as determined by ASTM D-698, "Tests for Moisture -- Density Relations of Soil-- Aggregate Mixtures", and ASTM D-2049, "Test for Related Density of Cohesionless Soils", respectively.

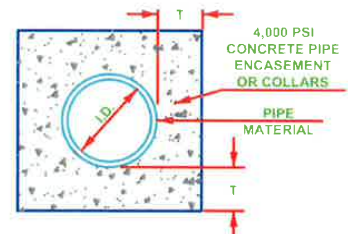
Compaction Test	Compaction Requirement
Standard Proctor Density	95%
Relative Density	75%

3. COMPACTING METHODS -- All embedment material shall be compacted in accordance with the methods described in Part "3" of "Backfilling."

TRENCH WIDTH TABLE

Pipe Nominal Size (inches)	Minimum Trench Width (feet)	Maximum Trench Width (feet)
<12	3.00	5.00
15	3.25	5.00
18	3.50	5.00
21	3.75	5.25
24	4.00	6.00
27	4.25	6.25
30	4.50	6.75
33	4.75	8.25
36	5.25	9.00
42	6.25	9.50
48	7.00	11.00
54	8.00	11.50
60	9.00	12.00
66	9.75	13.00
72	10.50	13.00
78	10.50	13.50
84	11.00	14.00
90	11.50	14.50
96	12.00	15.00
102	12.50	15.50

PIPE ENCASEMENT AND COLLARS



NOMINAL DIAMETER (INCHES)	T (INCHES)
≤18"	6"
>18" & ≤30"	8"
>30" & ≤42"	10"
>42"	12"

NOTE: FOR COLLARS, THE CONCRETE ENCASEMENT SHALL BE PLACED TO A MINIMUM OF TWELVE (12") INCHES ON EITHER SIDE OF THE JOINT.

SANITARY SEWER PIPE INSTALLATION DETAILS			
CITY OF GLENPOOL, OKLAHOMA			
COMPANY NAME ADDRESS, ETC. ADDRESS, ETC.			
REVISION	BY	DATE	PLAN SCALE
DESIGNED	BY	DATE	1"=10'
OFFICE ENGR	BY	DATE	PROFILE SCALE
CHEF ENGR	BY	DATE	HORIZONTAL
RECOMMENDED DIRECTOR	BY	DATE	VERTICAL
RECOMMENDED	BY	DATE	ENGINEERING DEPT
ENGINEERING DIRECTOR	BY	DATE	ATLAS PAGE NO

City of Glenpool

Capital Improvement Progr

January 2006

INCOG

Sewer System North:
Diameter

010002000

Feet

N

W

S

E

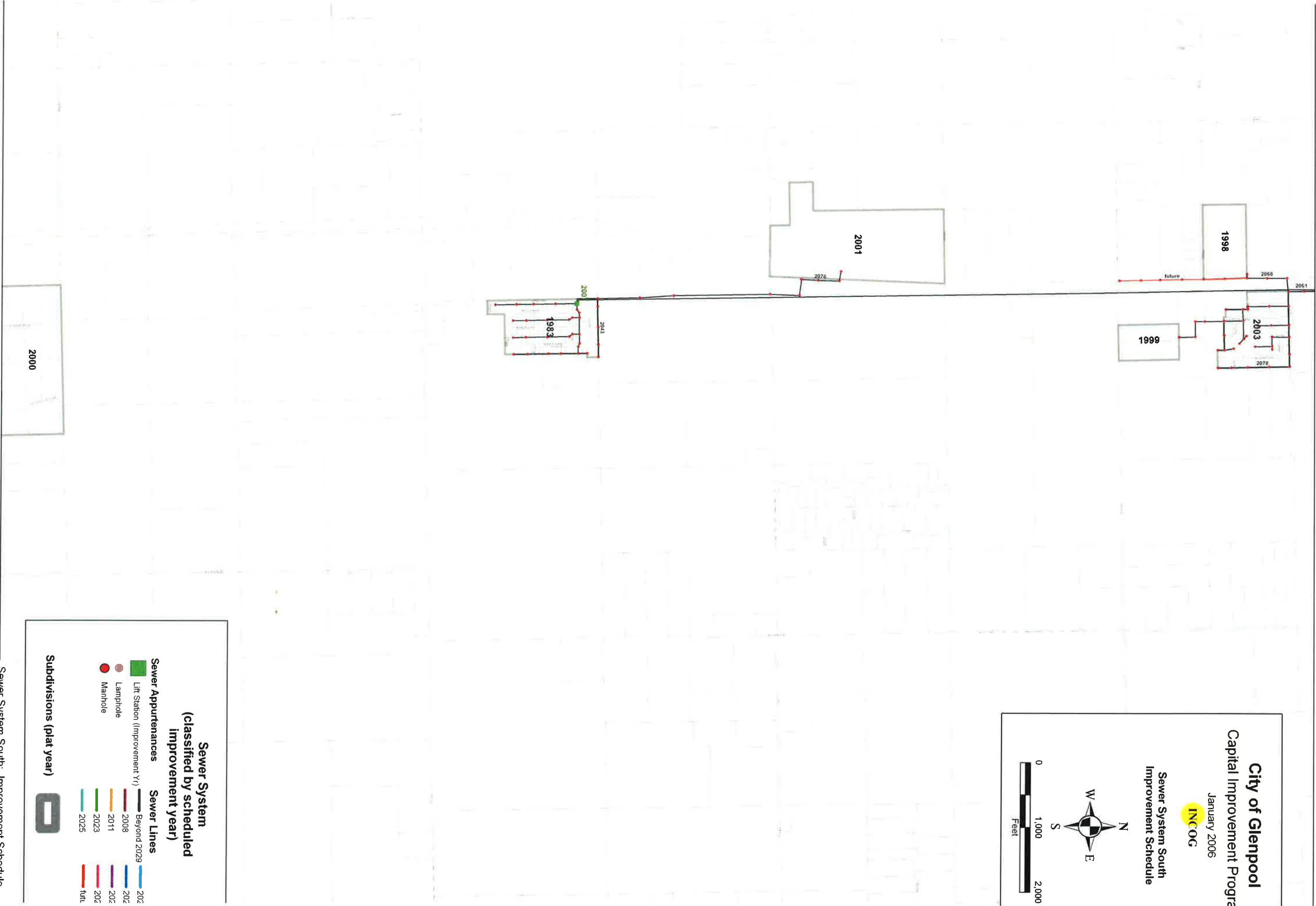
010002000

Feet



City of Glenpool
Capital Improvement Progre
January 2006
INC OG

Sewer System South
Improvement Schedule



Sewer System South: Improvement Schedule —



To: Chair and Trustees

From: David Tillotson, City Manager 

Date: August 14, 2019

Re: St. Francis Water Tower Discussion

Background:

Todd Schuster with St. Francis Health Systems reached out to Lynn several weeks ago to ascertain the potential of St. Francis using the 156th St. water tower to display their logo. Lynn and I discussed the options internally and I learned that Roger Kolman had had some level of conversation to this effect with St. Francis during negotiations on the hospital site. In fact, it is my understanding that a logo was not placed on the water tower at the time of construction specifically to allow for this possibility.

Lynn, Mandy Vavrinak and I met with Todd to discuss St. Francis's desires and the City's needs should the project move forward. After hearing the options St. Francis wanted to consider, the City solicited quotes on the painting so both parties could better understand the costs involved. There has been no agreement presented by either party to date. Todd is aware of the meeting this evening and offered to attend if we wanted him to, but Lynn and I felt it was a little premature at this time.

The purpose of the agenda item is to discuss potential options between staff and Council and solicit your feedback on these options. Staff will then evaluate the feedback received to better determine if and how to move forward on the project.

Staff Recommendation:

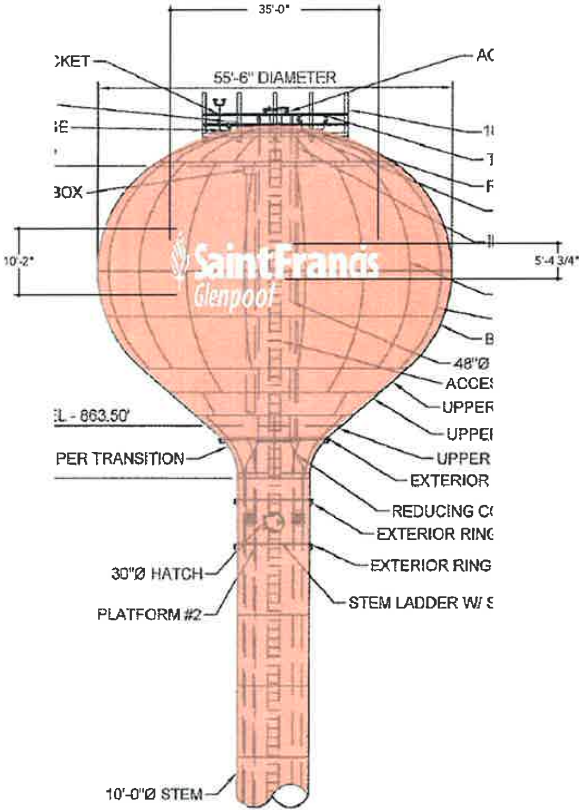
This is a discussion item only. No action will be taken.

Attachments:

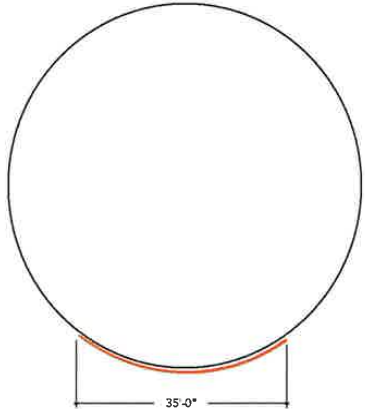
- Draft Paint Schemes
- Paint Estimates

12205 S. Yukon, Glenpool, OK 74033 OFFICE: 918-322-5409 FAX: 918-209-4641
Mayor Tim Fox, Vice-Mayor Momodou Ceesay, Councilors: Brandon Kearns, Jacqueline Lund and Joyce Calvert
City Manager David Tillotson, Assistant City Manager Susan White, and City Clerk Wendy Knight
www.glenpoolonline.com

OPTION 1 - 35' LOGO



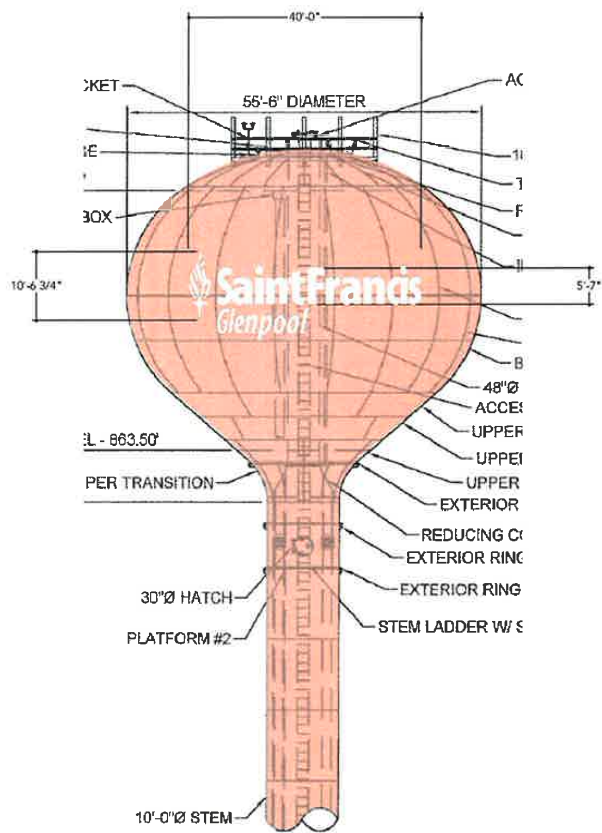
A | SIDE VIEW
SCALE: 1/8" = 1'-0" WATER TOWER LOGO



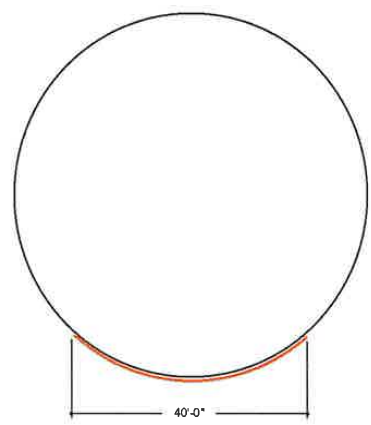
B | TOP VIEW
SCALE: 1/8" = 1'-0" WATER TOWER LOGO

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OPTION 2 - 40' LOGO



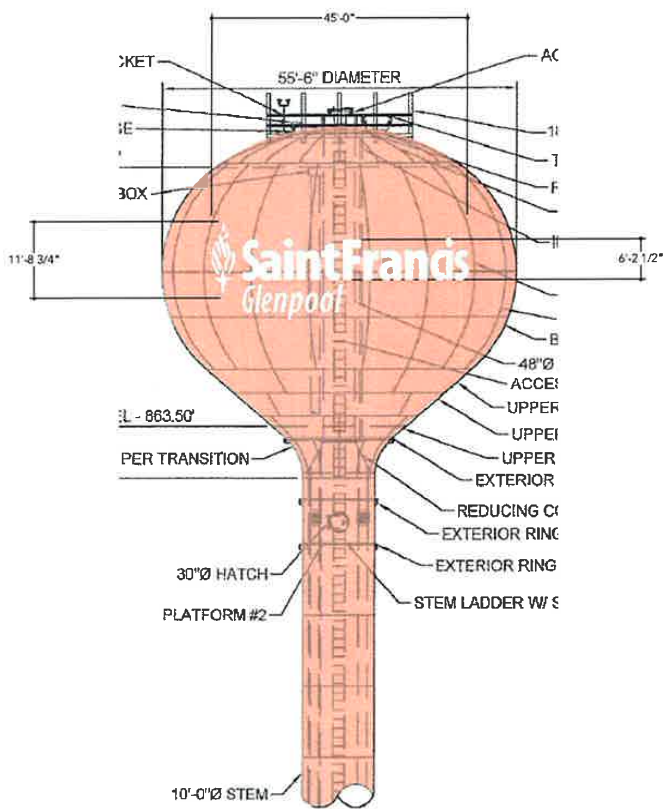
A | SIDE VIEW
SCALE: 1/16" = 1'-0"
WATER TOWER LOGO



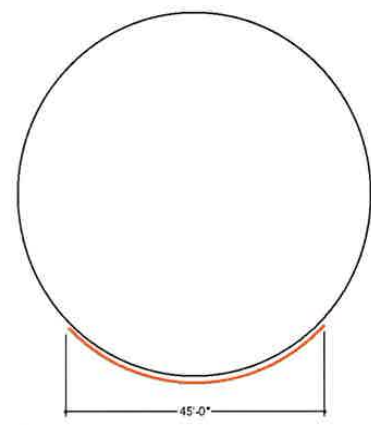
B | TOP VIEW
SCALE: 1/16" = 1'-0"
WATER TOWER LOGO

	DESIGNER: JAMES ADIAIR ACCOUNT EXEC: JAMES ADIAIR DESIGNER: BILLY SAMPLE DATE OF ORIGINAL DWG: JUNE 03, 2019 REVISION HISTORY: AUG 14, 2019 SIGN TYPE/DESCRIPTION: LOGO	PROJECT/CLIENT NAME: SAINT FRANCIS GLENPOOL	LOCATION: 166TH STREET GLENPOOL, OK	ACCOUNT EXEC: JAMES ADIAIR DESIGNER: BILLY SAMPLE	DATE OF ORIGINAL DWG: JUNE 03, 2019 REVISION HISTORY: AUG 14, 2019	SIGN TYPE/DESCRIPTION: LOGO	SEE PAGE ST-2.0
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OPTION 3 - 45' LOGO

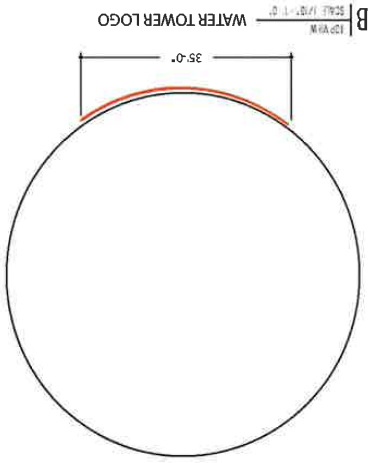


A | SIDE VIEW
SCALE: 1/16" = 1'-0" WATER TOWER LOGO



B | TOP VIEW
SCALE: 1/16" = 1'-0" WATER TOWER LOGO

	THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF SAINT FRANCIS GLENPOOL, INC. AND ARE THE PROPERTY OF THE COMPANY. NO PART OF THESE DRAWINGS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM SAINT FRANCIS GLENPOOL, INC.	IN ORDER TO BE A PART OF THE DESIGN TEAM, THE ARCHITECT MUST SUBMIT A LETTER OF INTENT TO THE CLIENT, ST. FRANCIS GLENPOOL, INC., AND A CHECK FOR \$500.00 TO THE CLIENT, ST. FRANCIS GLENPOOL, INC. THE ARCHITECT MUST ALSO SUBMIT A CHECK FOR \$500.00 TO THE CLIENT, ST. FRANCIS GLENPOOL, INC. THE ARCHITECT MUST ALSO SUBMIT A CHECK FOR \$500.00 TO THE CLIENT, ST. FRANCIS GLENPOOL, INC. THE ARCHITECT MUST ALSO SUBMIT A CHECK FOR \$500.00 TO THE CLIENT, ST. FRANCIS GLENPOOL, INC.	☐ APPROVED AS SHOWN ☐ APPROVED AS NOTED	PROJECT/CLIENT NAME: SAINT FRANCIS GLENPOOL	LOCATION: 156TH STREET GLENPOOL, OK	ACCOUNT EXEC: JAMES ADAIR	DESIGNER: BILLY SAMPLE	DATE OF ORIGINAL DTS: JUNE 03, 2019	REVISION HISTORY: AUG 14, 2019	SIGN TYPE/DESCRIPTION: LOGO	SHEET NAME: ST-3.0



David Tillotson

From: Lynn Burrow
Sent: Thursday, August 15, 2019 7:16 AM
To: David Tillotson
Subject: FW: Water Tower Logo

FYI...

From: John Staires <jstaires@cityofglenpool.com>
Sent: Friday, June 14, 2019 11:12 AM
To: Lynn Burrow <lborrow@cityofglenpool.com>
Subject: FW: Water Tower Logo

From: Ray Walker <Ray.Walker@phoenixtank.com>
Sent: Friday, June 07, 2019 9:11 AM
To: John Staires <jstaires@cityofglenpool.com>
Subject: RE: Water Tower Logo

John one coat of finish paint plus one logo price would be \$48510.00 . That would be two pressure wash the tank than apply product. Just one logo any size would be \$23000.00 that would be wash tank paint logo. Thank Ray

From: John Staires <jstaires@cityofglenpool.com>
Sent: Wednesday, June 5, 2019 9:36 AM
To: Ray Walker <Ray.Walker@phoenixtank.com>
Cc: Lynn Burrow <lborrow@cityofglenpool.com>
Subject: Water Tower Logo

Ray:

I have attached the renderings of the logo Saint Francis Hospital Glenpool is proposing to add to our water tower. The logo is the same in all three drawings, but it is drawn in 35' width, 40' width and 45' width. I am needing a price based on each size.

Also, the predominant color scheme for the hospital is pink, and I was needing to get a quote on having the tower painted pink in addition to adding the logo.

Please forward the quote to me as soon as possible.

Thanks,

John E. Staires CBO, CECO
Building Official, City of Glenpool Ok
12205 S. Yukon Ave
Glenpool, Ok 74033
918-209-4616
Cell: 918-640-7656
jstaires@cityofglenpool.com

David Tillotson

From: Lynn Burrow
Sent: Thursday, August 15, 2019 7:17 AM
To: David Tillotson
Subject: FW: Steward Tank Consulting, Inc.

FYI...

From: Steve Woodward <steve@stewardtank.com>
Sent: Thursday, June 20, 2019 7:49 PM
To: Lynn Burrow <lborrow@cityofglenpool.com>
Cc: David Tillotson <dtillotson@cityofglenpool.com>
Subject: Re: Steward Tank Consulting, Inc.

Lynn,

OK so here it is... To pressure wash all exterior surfaces, spot apply touch up, and apply one coat of Urethane finish coat to all surfaces (pink): \$103,040
Artwork Logo as provided one side: \$18,860
Artwork Logo as provided 2 sides (if desired): \$29,325
Tank would need to be drained and off-line during coating duration.

Let me know their thoughts.

Respectfully submitted,

Steve Woodward
Steward Tank Consulting, Inc.
Phone: [918-812-3006](tel:918-812-3006)
Fax: [918-371-6722](tel:918-371-6722)
www.stewardtank.com

"Your Water Quality Matters"

On Jun 20, 2019, at 12:14 PM, Lynn Burrow <lborrow@cityofglenpool.com> wrote:

Thanks - just keep me posted. I'm pretty sure there will be a quick decision once we have the cost numbers.

Sent from my iPhone

On Jun 20, 2019, at 11:28 AM, Steve Woodward <steve@stewardtank.com> wrote:

Lynn,

Just to let you know, I am waiting for a price call back from my logo guy. Should hear back shortly.

Regards,

Steve Woodward
Steward Tank Consulting, Inc.
7476 North 197th East Ave.
Owasso, OK 74055
C. 918-812-3006
F. 918-371-6722

www.stewardtank.com

"Your Water Quality Matters"

On Jun 19, 2019, at 7:23 AM, Lynn Burrow
<lburrow@cityofglenpool.com> wrote:

Steve,

I hate to bug you about this, but the folks at St. Francis are pressing to get the information so as to analyze the costs and see which way they want to pursue the issue - full re-paint plus the logo or just the logo. Give me an idea what to expect as to your response. Thanks.

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

From: Lynn Burrow
Sent: Friday, June 14, 2019 10:24 AM
To: 'Steve Woodward' <steve@stewardtank.com>
Cc: David Tillotson <dtillotson@cityofglenpool.com>; Mandy Vavrinak <mvavrinak@mac.com>
Subject: RE: Steward Tank Consulting, Inc.

Steve,

Ok...sorry to hear about your dad. Just keep me in mind next week when you get back in the saddle. I'm just needing enough information to pass on to the Warren Foundation folks so they can get an idea of the costs and related technical issues that may be involved. Thanks.

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

From: Steve Woodward <steve@stewardtank.com>