## CITY OF LUCAS

## CONSTRUCTION PLANS FOR

## WATER SYSTEM IMPROVEMENTS NORTH PUMP STATION GROUND STORAGE TANKS \& PUMP IMPROVEMENTS

## SHEET INDEX

general notes
ocation map and summary of quantities
HORIZONTAL AND VERTICAL CONTROL PLAN
ground storage tank - erosion control plan GROUND STORAGE TANK - SITE PLAN
GROUND STORAGE TANK - YARD PIPING PLAN
ground storage tank - water line profiles
ground storage tank - grading plan
ROUND STORAGE TANK - PAVING PLAN
roun storage tank - plan and elevation
euture siond storage tank - plan and elevation
goun storag tan structural
ature ground storage tank - structural
general structural notes
ELECTRICAL
ground storage tank detalls - sheet
GROUND STORAGE TANK DETAILS - SHEET 2
ground storage tank detalls - Sheet 2
general construction detalls - sheet
OWNER:
CITY OF LUCAS
151 COUNTRY CLUB ROAD
LUCAS, TEXAS 75002
ENGINEER:

## RECORD DRAWING

BASED ON CONTRACTOR MARKUPS,
NOT FIELD SURVEY.
VICINITY MAP
BW2 JOB NO. 06-1207
APRIL 2007

## GENERAL NOTES:

The contor it is res.
2. The contractor is responsible for maintaining odequate site drainoge throughout the
3. The contractor is
4. The contractor shall reploce all fence re,
all necessary permits ond opprovals before
5. The contractor shall toke all necessa






8. The Contractor shall not ploce fifl or woste moterial on ony yriviote property without


9. All streets within the scope of the Contract



11. Filter fobric fence for ersion control shal be provided in accordance with specifications
12. The conrractor shall use the public right-of-woys ond existing utility easements for access
to the job site.




15. The contractor shal frovide means tor odeauotety controlling ond ovoiding soil erosion
16. Al disturbed earth oreas are to be finish groded to original or proposed contours,


17. No Nexising sprinkelifirigations systems hove been show on the popns: however

18. The contractore shan
19. The contractor shall conform to the occupotional Sarety ond Heath Administration's.

 and Speeifications, exeept os noted. in the
Stondords ond Specificotions shoul govern.
21. No axth
22. CONTRACTOR sholl provide ail neceessory construction staking.
23. contractor's working hours shall be in occordance with the provisions of the current
City ordinonce governing hours of construction work in the city.

25. All exsting woter lines ond service lines to remon in service during tonstruction At At times

27. Woter line shall be polvinyy chloride (pyc) Awwa cogo. New woter service ine shall be copper
28. Contractor shall instal isolation gate valves ond fire hydrants at Iocations shown on plans


30. The contractor shall ossume responsibility for protection of public utilites in the

31. The City of Lucos Public Works Department is to be notified 48 hours (2 working days) $\begin{aligned} & \text { prior to to ony construction of poving ond utitities in rights }- \text { o-woy, easements ond diless. }\end{aligned}$
32. Arrongements for construction woter shall be mode through the city of Lucas.
33. All loctions of Underfround vility lines ore dopproximote. Contractor shall contoct

34. Pve pipe shal be manufoctured from o low fille PvC component copoble of meeting
35. Construction sites shall be esecure ot on times. Sofety precutions shall be toten to





39. Per a set of sealed plans for the existing facilites, it appears thot the existing motors
$\triangle$ 40. Per or reort prepored on the wo der system for the city, it oppers thot the existing
2 41. ConTractor shall utilize the existing vives ond piping in the pump builing. The control
(2) 42. Elevotions shoum on Sheet No. 11 of the plons shall be revised to motch elevation




$\qquad$
B. The posted speed for worring signoge is to be determined ot the site by the city of Lucas
9. Reduced speed warring signage should be placed prior to and at regulur intervals within







DATE: APRI 2000

## RECORD DRAWING
















## GENERAL STRUCTURAL NOTES:

## foundation


2. THE CONTRACTOR AND ALL SUBCONTRACTORS SHOULD BE TOTALLY FAMLLAR MTH THE CONTENTS OF

4. IN No CASE SHAL CONSTRUcton Proceed if THe Performance of the foundatons, As


7. ALl CLEARED DEbRIS SHALL BE REMOVED AND DISPosED of PRoperly offstie, ano suitable

9. AFTIER REMVYL OF THE TOP THRE (3) FEET, THE EXPOSED SUBGRRAE SHOUL BE SCARIFED AND COMPACED A A OR ABOVE
RROCTOR DENIIT (ASTM $D$ G88).
10. FIL MATERALL SN THE DEERIS REMOVAL AREA THEN SHOUL BE PLACED TO MTHN THREE (3)

1. THE EXCAVATED AREA FROM GRADE MINS THREE (3) FEET TO PAD CRADE SHOULD THEN BE BACKFLLED USNG SLEECT FIL OR A FLEEXI
TXOOT ITEM 247, TPEE A, CRADES 1 OR 2.
2. THIS MATERAL SHOULD BE PLLACED IN LIFTS OF APPRRXMATELY SIX (6) NCHES AT A MNMUM MOITUUE AT A MNMMU OF 95 PERCENT OF STANDARD PROCTOR DENSITY (ASTM D 0 C98).
3. A Later of coarse sand may be placed drectry below the bottom of the tank to

4. SIIE GRADING OPERATONS, WHERE REGURED, shall be Perroormed in Accoroance wit

5. NADEOUHE PROMNAEED AROUNOCTITE.
6. 
7. FoUndaton excavaton shall be dry and rre of loose matrrial

8. all excanatons shal be sloped, shored or shelego in accoroance wit osha reaurements.

## CONCRETE:

1. CONCRETE WORK SHAL BE EXECUTED INSTRCT ACCORAACE MTH THE LATEST.


2. PORTAND CEMENT SHALL CONFFRM TO ASTM C-33.
3. RENFPROCNG STEL SHALL CONFORM TO ASTM 615, GRADE G0; GRADE 40 FOR

4. AL WELEDD MRE FABRIC SHAL CONFORM TO ASTM AB2 ORADE 60.


5. PROUDE 2 - 45 BARS EACH SIDE OF ALL OPENNGS. EXTEND BARS TWO (2) FEET
corner renforging ahrs shall be used at all corners and intersections.
6. RENFORING SPLCEES SHALL OCCUR AT PONTS OF MINMM STRESS ANO LAP
7. LAP ALL WELDED MRE FAARIC EIIHT (8) INCHES MNMMM.
8. THE NTERIOR FLOOR AREAS THAT DO NOT REEEVE RESLIENT FLLOORNG OR


All NIERROR CONCRE
 PUBUSHED NSTRUCTIONs.

9. SEE ARCCHITCCTURAL AND MECHANCCAL PLANS FOR VERFICATON OF AL
DERPESSIONS OPENNGS, CAST-N-PLACE ACCESSORIES, ETC.

## IANK;

.


4. THE CONTRACTOR SHAL ROUCH GRADE THE AREA AS HE DEENS NECESSARY TOM 5. ANY SLOPE SHAPNG AND ROUCH ORAOMG SHALL BE IN ACCORDANCE WTH ALL


| 6 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 1 |  |  |  |  |  |
| No. | DATE | REVISION | REVEWED |  |  |






SWivel hydrant tee-muxflange valve-flange hydran

SWIVELxSWIVEL $90^{\circ}$ ELL-MJxFLANGE VALVE-FLANGE HYDRANT
FIRE HYDRANT INSTALLATION

$\frac{\text { BURIED VALVE DETAIL }}{\text { N.T.S. }}$
 NOTES:

1. THE ABOVE TABELE IS RASED on 2000 PSF SOIL BEARIMG CAPACATM
2. CONCRETE FOR THRUST BLOCKNG SHALL BE 2000 PSI CONCRETE.
3. VEETICAL EEND THRUST Blocking shall have rennorang bars

4. ALL THRUST Blocking shall be As inolcated or as per the

N CONTRACTOR MARKUPS,
NOELD SURVEY.

BW2 Engineers, Inc.




