



**REVIEW BY FORT BEND COUNTY**  
**COMMISSIONERS COURT**

**Fort Bend County**  
**Engineering Department**  
301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500  
[Permits@fortbendcountytx.gov](mailto:Permits@fortbendcountytx.gov)

☐

Right of Way Permit

☒

Commercial Driveway Permit

Permit No: 2016-10430

**Applicant:** C F McDonald Electric Inc

**Job Location Site:** 4303 Teal Bend Boulevard, Fresno, TX 77545

**Bond No.** TX832334 **Date of Bond:** 11/2/2016 **Amount:** \$5,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

**Notes:**

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
  - a. 48 hours in advance of construction start up, and
  - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru [MyGovernmentOnline.org](http://MyGovernmentOnline.org) portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 22nd day of November, 2016, Upon Motion of Commissioner \_\_\_\_\_, seconded by Commissioner \_\_\_\_\_, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

**Signature**

Presented to Commissioners Court and approved.

By: *Charles O. Ad*  
*for* County Engineer

Date Recorded \_\_\_\_\_ Comm. Court No. \_\_\_\_\_

N/A

Clerk of Commissioners Court

By: \_\_\_\_\_  
Drainage District Engineer/Manager

By: \_\_\_\_\_  
Deputy



**PERMIT APPLICATION REVIEW FROM FOR  
CABLE, CONDUIT, AND POLE LINE ACTIVITY  
IN FORT BEND COUNTY**

**Fort Bend County  
Engineering Department**  
301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500  
[Permits@fortbendcountytx.gov](mailto:Permits@fortbendcountytx.gov)

☐

Right of Way Permit

☒

Commercial Driveway Permit

Permit No: 2016-10430

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

**(1) COMPLETE APPLICATION FORM:**

☒  
☒  
☒

- a. Name of road, street, and/or drainage ditch affected.  
b. Vicinity map showing course of directions  
c. Plans and specifications

**(2) BOND:**

☐

County Attorney, approval when applicable.

☐

Perpetual bond currently posted.

Bond No:

Amount:

☒

Performance bond submitted.

Bond No: TX832334

Amount: \$5,000.00

☐

Cashier's Check

Check No:

Amount:

**(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):**

Drainage District Approval

Date

**We have reviewed this project and agree it meets minimum requirements.**

Permit Administrator

Date

**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE  
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROADS**

**AUTHORIZED**

BOND NO. TX 832334

THE STATE OF TEXAS       §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND       §

THAT WE, C F McDonald Electric Inc whose address is 5044 Timber Creek, Houston, Texas 77017, Texas, hereinafter called the Principal, and Merchants Bonding Company (Mutual), a Corporation existing under and by virtue of the laws of the State of Iowa and authorized to do an indemnifying business in the State of Texas, and whose principal office is located at 6700 Westown Parkway, West Des Moines, IA 50266, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is Keenan Lehmann and whose address is 9500 Arboretum Boulevard, Suite 100, Austin, TX 78759, hereinafter called the Surety, and held and firmly bound unto, Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of Five Thousand Dollars (\$5,000.00) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable, conduit and/or pole line activity;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 2nd day of November, 2016.

C F McDonald Electric Inc

**PRINCIPAL**

BY Wayne Berkenmeier, Vice President Special Projects

Merchants Bonding Company (Mutual)

**SURETY**

SuEllen Landriault

BY SuEllen Landriault Attorney-in-Fact

**MERCHANTS**  
**BONDING COMPANY™**  
**POWER OF ATTORNEY**

TX 832334

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

**SuEllen Landriault**

their true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver on behalf of the Companies, as Surety, bonds, undertakings and other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

**\$12,000,000.00**

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 15th day of June, 2016.



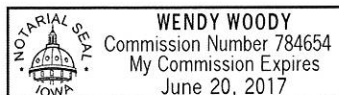
MERCHANTS BONDING COMPANY (MUTUAL)  
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*

President

STATE OF IOWA  
COUNTY OF Dallas ss.

On this 15th day of June, 2016, before me appeared Larry Taylor, to me personally known, who being by me sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.



(Expiration of notary's commission  
does not invalidate this instrument)

*Wendy Woody*  
Notary Public, Polk County, Iowa

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 2nd day of November, 2016.



*William Warner Jr.*  
Secretary

FORT BEND COUNTY  
MUNICIPAL UTILITY DISTRICT NO.23  
CITY OF HOUSTON E.T.J., FORT BEND COUNTY, TEXAS

DATE. FEBRUARY 2016

APPROVED FOR CONSTRUCTION

BY \_\_\_\_\_ DATE \_\_\_\_\_

**LJA Engineering Inc.**

Phone 713.953.5200  
Fax 713.953.5026  
FRN-F-1386

NEW CON LOG NO. 16-018  
NEW FILMS NO. 16016895

1. THESE PLANS WERE PREPARED TO MEET OR EXCEED CITY OF HOUSTON SUBMISSION RULES AND REGULATIONS (AS APPLICABLE) AS CURRENTLY AMENDED.
2. NO KNOWN PROPOSED OFF-SITE WASTEWATER LINE WORK IS SHOWN ON NOR INVOLVED IN THIS PLAN SET.

ONE-CALL NOTIFICATION  
SYSTEM  
CALL BEFORE YOU DIGIT  
(713) 261-5000  
(NEW STATEMENT NUMBER OUTSIDE HOUSTON)  
1-800-545-6005

NOTES

PORT BEACH COUNTY ENGINEER  
 ENGINEER *W. J. Moe*  
 FOR *Richard W. Moe, Jr.*  
 DATE *3/20/16*  
 THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS  
 NOT COMPLETED IN (1) YEAR FROM DATE OF  
 APPROVAL  
 APPROVED *Martin Red*  
 DEPUTY COUNTY ENGINEER  
 DATE *3/29/16*

VOID SHEETS 1-17  
ADD SHEETS 1A-18

PRIOR TO THE CONSTRUCTION OF THESE FACILITIES, WRITTEN OR BY THE DISTRICT, THE DISTRICT OR ITS ENGINEER WILL GIVE WRITTEN NOTICE BY REGISTERED OR CERTIFIED MAIL TO THE DIRECTOR OF PUBLIC WORKS & ENGINEERING, CITY OF HOUSTON, STATING THE DATE SUCH CONSTRUCTION WILL BE COMPLETED.

**CITY OF HOUSTON**  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CITY ENGINEER

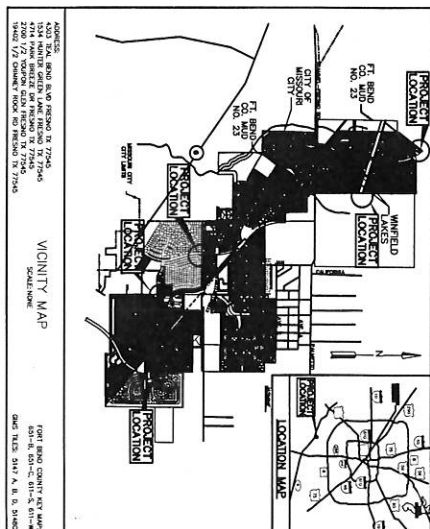
FOR CITY OF HOUSTON USE ONLY

CITY ENGINEER NO. \_\_\_\_\_

INVENTOR OF PUBLIC WORKS  
AND ENGINEERING

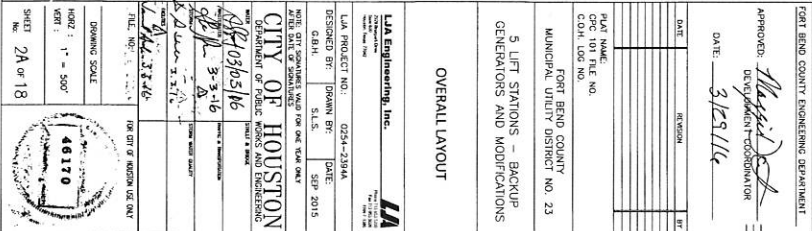
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SHEET 1A of 18  
No.



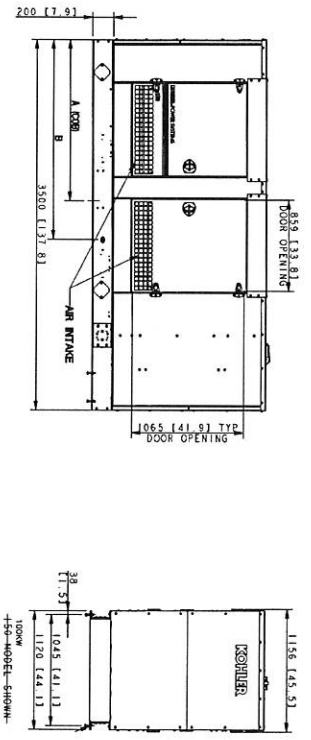
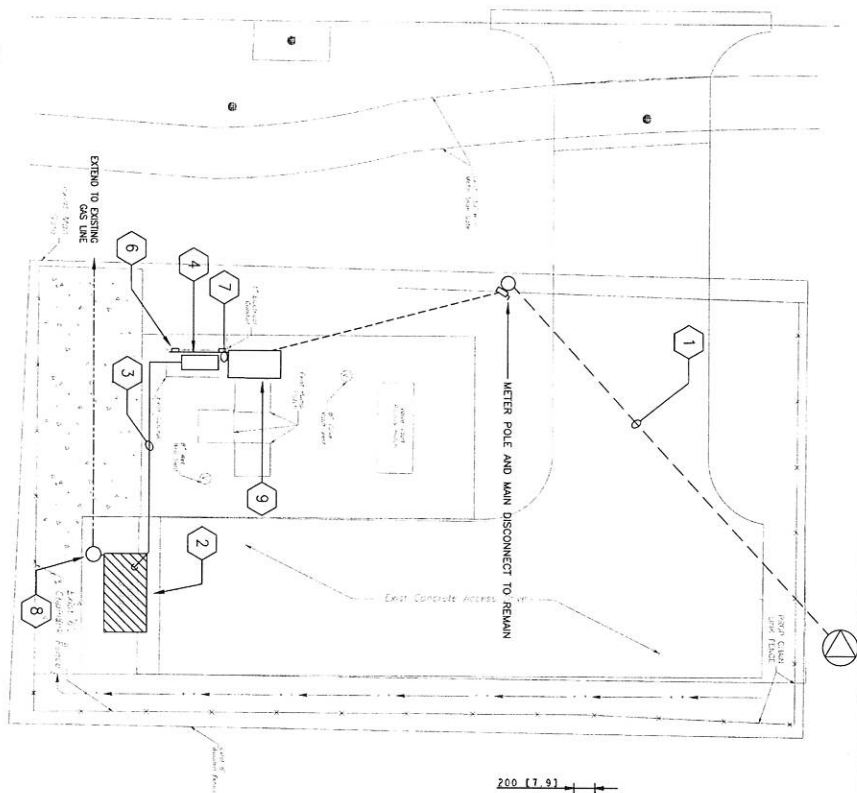
SHEET 1 INDEX

- 1A COVER SHEET
- 2A OVERALL LAYOUT
- 3A SITE PLAN - SITE, ROAD BLVD. L5
- 4A SITE PLAN - SITE, ROAD BLVD. L5
- 5A ELECTRICAL DETAILS - TEAK ROAD BLVD. L5
- 6A SITE PLAN - HUNTER GREEN L5
- 7A ELECTRICAL SITE PLAN - HUNTER GREEN L5
- 8A ELECTRICAL DETAILS - HUNTER GREEN L5
- 9A SITE PLAN - PARK BREEZE DR L5
- 10A ELECTRICAL SITE PLAN - PARK BREEZE DR L5
- 11A ELECTRICAL DETAILS - PARK BREEZE DR L5
- 12A SITE PLAN - YOUNG GLEN DR L5
- 13A ELECTRICAL SITE PLAN - YOUNG GLEN L5
- 14A ELECTRICAL DETAILS - YOUNG GLEN L5
- 15A SITE PLAN - CHIMNEY ROCK L5
- 16A ELECTRICAL SITE PLAN - CHIMNEY ROCK L5
- 17A ELECTRICAL DETAILS - CHIMNEY ROCK L5
18. TPOOT PFD 12 - A DETAILS





**A SITE PLAN**



NOTE: COORDINATE EXISTING GENERATOR DIMENSIONS AND PAD SIZE WITH GENERATOR SHOP DRAWINGS

- 1 EXISTING OVERHEAD DROPWIRE BY UTILITY TO REMAIN
- 2 PROPOSED 1200V GENERATOR, COORDINATE EXACT LOCATION WITH OWN DRAWINGS
- 3 PROPOSED SURFACE MOUNT CONDUITS FROM GENERATOR TO NEW A.T.S.
- 4 NEW A.T.S. - COORDINATE EXACT LOCATION WITH EXISTING CONTROL PANEL
- 5 NOT USED
- 6 STAINLESS STEEL UNISTRUT RACK ANCHORED TO SIDE OF PROPOSED SLAB FOR A.T.S.
- 7 PROPOSED SURFACE MOUNT CONDUIT FROM A.T.S. TO NEW CONTROL PANEL
- 8 COORDINATE EXACT METER LOCATION AND GAS PIPING ROUTE WITH CENTERPOINT ENERGY
- 9 PROPOSED NEW CONTROL PANEL, VERIFY EXACT LOCATION AND COORDINATE NEW FEEDS FROM A.T.S. TO NEW CONTROL PANEL

**2 SCOPE OF WORK**

- 1 CONTRACTOR SHALL FOLLOW STANDARD LOCK-OUT/TAG-OUT PROCEDURES.
- 2 CONTRACTOR SHALL FURNISH AS BUILT DRAWINGS AT THE END OF CONSTRUCTION TO THE ENGINEER.
- 3 CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- 4 CONTRACTOR SHALL NOTIFY OPERATOR 72 HOURS PRIOR TO STARTING WORK THAT WOULD DISRUPT NORMAL ACTIVITY.
- 5 ALL WIRING SHALL BE THINWALL COPPER.
- 6 ALL CONDUIT ABOVE GRADE RIGID STEEL.
- 7 ALL CONDUIT BELOW GRADE RED CONCRETE ENCASED PVC.

**3 ELECTRICAL NOTES**

**REVISIONS**

**NOTES**



THIS SET BEING ONE OF THE DOCUMENTS AUTHORIZED BY THE BOARD OF ENGINEERING EXAMINERS OF THE STATE OF TEXAS, THE ENGINEER'S SIGNATURE AND SEAL ARE REQUIRED FOR THE SET TO BE VALID.

APPROVED: *[Signature]*  
DATE: 3/24/16

FOR THE COUNTY ENGINEER  
COUNTY ENGINEER

FOR THE COUNTY ENGINEER  
COUNTY ENGINEER

FOR THE COUNTY ENGINEER  
COUNTY ENGINEER

**ELECTRICAL SITE PLAN - TEAL BEND BLVD LIFT STATION**

5 LIFT STATIONS - BACKUP GENERATORS AND MODIFICATIONS

MUNICIPAL UTILITY DISTRICT NO. 23

**CITY OF HOUSTON**  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

*[Signature]*  
DATE: 3/24/16

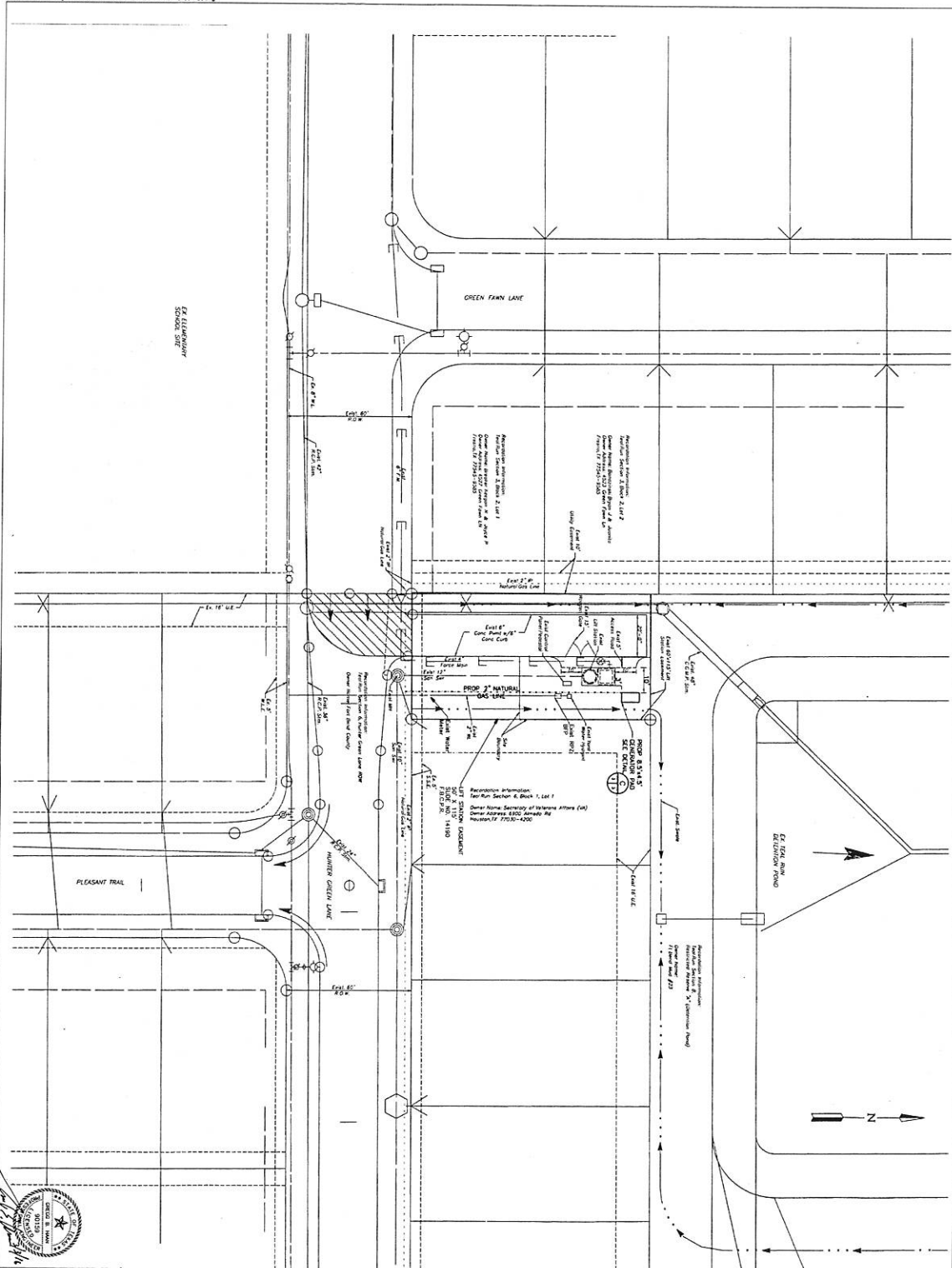
**LA Engineering Inc.**  
140170

PROJECT NO.: 0254-2394A  
DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: 3/24/16

**DRIVING SCALE**  
1" = 4'-0"

**SHEET NO. 4A OF 18**





**TO BE BUILT:** THE TOP OF WEST CLIMB AT THE INTERSECTION OF WESTERN DRIVE AND HOLLY HAVEN LANE ON THE LOT LINE BETWEEN LOTS 10 AND 11 IN BLOCK 3 OF TOWN AND SECTION ONE, (1978 ADJACENT)

**FROM BLOOM COUNTY RECORDS:** 441570220 J  
RECORDED NOVEMBER 2, 1987  
PAGE 8

**100' TO BE PLACED PLAIN ELEVATION - 64.80**  
PER SURVEY STUDY DATED OCTOBER, 2002  
BY LSA ENGINEERING & SURVEYING, INC.

1. ALL ITEMS ON BILL PLANS ARE LISTED UNLESS NOTED AS "PROPOSED".

4000 PSI MIN. CONCRETE (REINFORCED WITH #4 BARS) SHALL BE USED FOR ALL FOUNDATIONS. REINFORCING BARS ON 12" X 12" CENTERS. PAD THICKNESS SHALL BE 12" MIN. THE TOTAL WEIGHT OF THE MOUNTING PLATE SHALL BE AT LEAST EQUAL TO THE WEIGHT OF THE MOTOR. WHEN USING A CONCRETE FOUNDATION, THE MOTOR SHALL BE SET ON A LAYER OF A 1" TO 10" THICKNESS OF SAND. GRAVEL SHALL BE PLACED UNDER THE GENERATOR SHALL BE ANCHORED TO THE CONCRETE WITH 1" MINIMUM DIAMETER BOLTS BURED IN THE SURFACE OF THE CONCRETE TO A MIN DEPTH OF 5".

FURU BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: Wagner  
DEVELOPMENT COORDINATOR

DATE: 3/23/16

PAY NAME:  
CPC 101 TUE NO  
C.O.#, JOB NO.

FORT BEND COUNTY  
MUNICIPAL UTILITY DISTRICT NO. 2

5 LIFT STATIONS - BACKUP  
GENERATORS AND MODIFICATION

**SITE PLAN -  
HUNTER GREEN**

**LJA Engineering, Inc.**  
2050 Sargent Drive  
Suite 100  
Durham, North Carolina 27704  
Phone: (919) 487-1100  
Fax: (919) 487-1101  
E-Mail: [info@lja.com](mailto:info@lja.com)

DESIGNED BY:	DRAWN BY:	DATE:
CBH	SLS	SEP 2011

CITY OF HOUSTON  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

DATE: 3-3-61

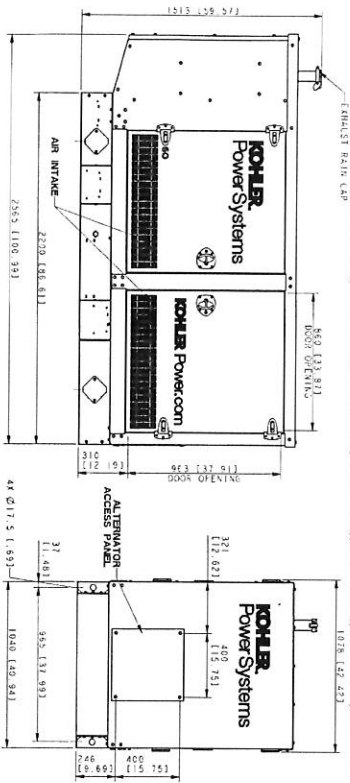
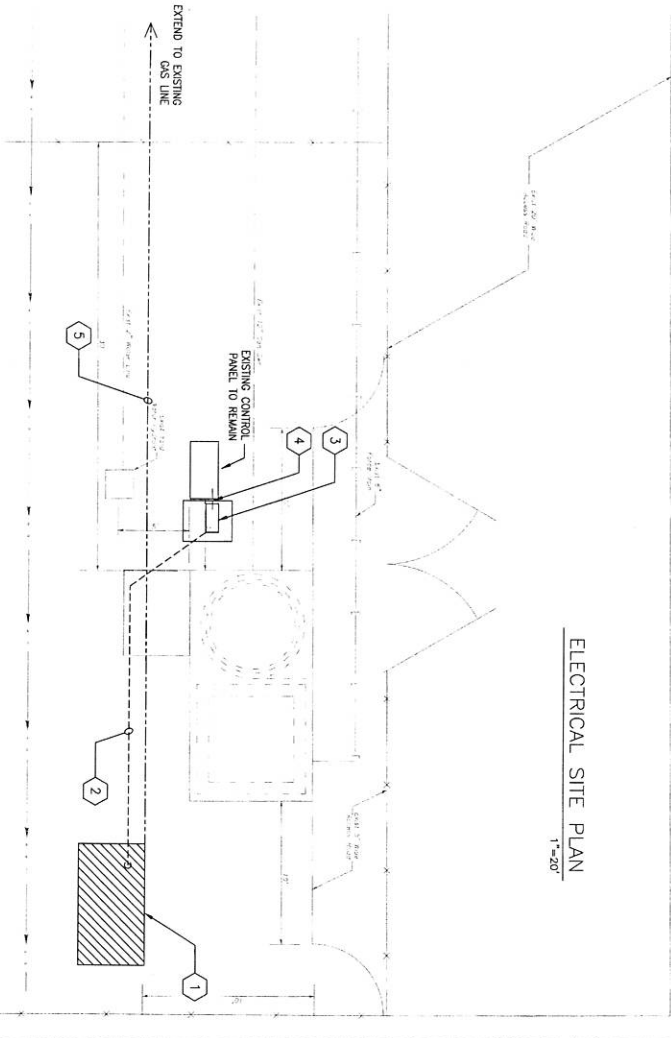
NAME	Wan Pak 33.16
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DEBATING SCALE

DEPT CA 0010

10	10
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# ELECTRICAL SITE PLAN 1"=20'



NOTE: COORDINATE EXACT GENERATOR DIMENSIONS AND PAD SIZE WITH GENERATOR SHOP DRAWINGS

N.T.S.

- 1 PROPOSED 25kW GENERATOR ON CONCRETE PAD, COORDINATE GENERATOR PAD SIZE WITH GENERATOR SHOP DRAWINGS.
- 2 PROPOSED U.G. DUCTBANK FROM GENERATOR TO ATS
- 3 NEW ATS, EXPAND EXISTING RACK AND SLAB AS REQUIRED
- 4 U.G. DUCTBANK FROM ATS TO CONTROL PANEL
- 5 COORDINATE EXACT GAS PIPE ROUTE AND METER LOCATION WITH CENTERPOINT ENERGY

2 SCOPE OF WORK N.T.S.

- 1 CONTRACTOR SHALL FOLLOW STANDARD LOCK-OUT/TAG-OUT PROCEDURES.
- 2 CONTRACTOR SHALL FURNISH AS BUILT DRAWINGS AT THE END OF CONSTRUCTION TO THE ENGINEER.
- 3 CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- 4 CONTRACTOR SHALL NOTIFY OPERATOR 72 HOURS PRIOR TO STARTING WORK THAT WOULD DISRUPT NORMAL ACTIVITY
- 5 ALL WIRING SHALL BE THHN/THHN COPPER
- 6 ALL CONDUIT ABOVE GRADE RIGID STEEL
- 7 ALL CONDUIT BELOW GRADE RED CONCRETE ENCASED PVC

1 ELECTRICAL NOTES N.T.S.

BENCHMARK

NOTES:



The Seal appearing on this document was authorized by Robert N. Young, 50510 10th St., Suite 100, Houston, TX 77057-1000

DATE: 3/29/10  
APPROVED: [Signature]  
ASSISTING ENGINEER

PROJECT NO. 0234-2304  
DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: NOV 2015

PROJECT NO. 0234-2304  
DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: NOV 2015

ELECTRICAL SITE PLAN -  
HUNTER GREEN DR  
LIFT STATION

PROJECT NO. 0234-2304  
DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: NOV 2015

PROJECT NO. 0234-2304  
DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: NOV 2015

PROJECT NO. 0234-2304  
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DATE: NOV 2015

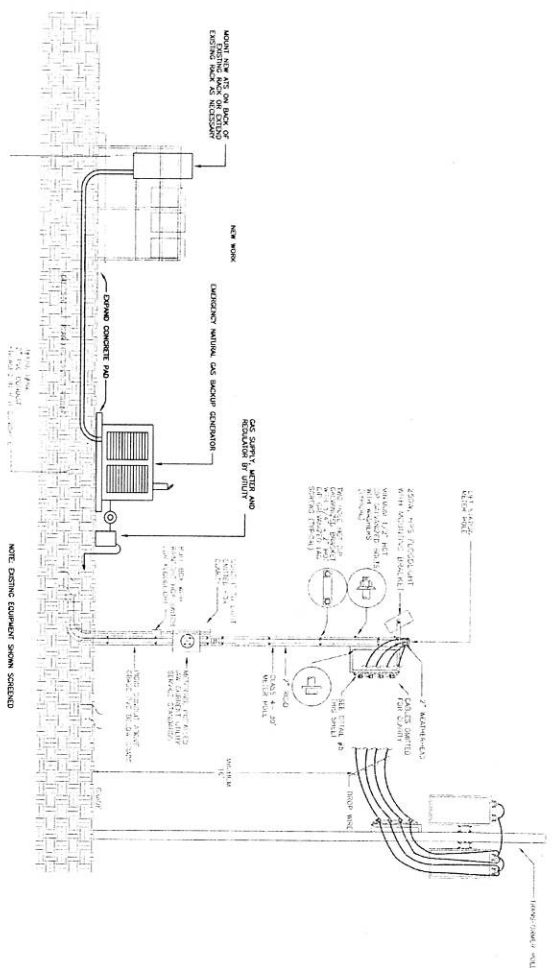
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CHECKED BY: [Signature]  
DATE: NOV 2015







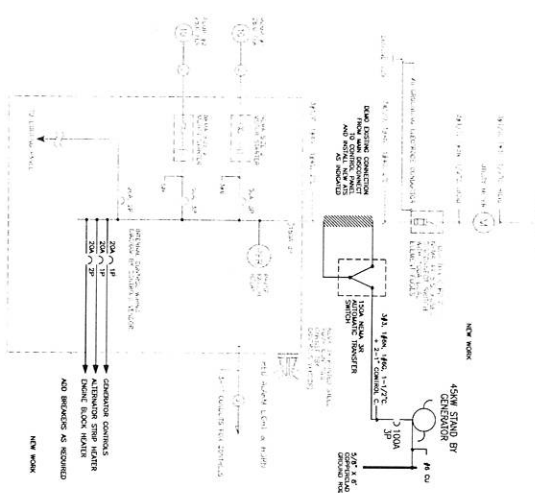


NOTE: DISTING EQUIPMENT SHOWN SCREENED

8 SERVICE ENTRANCE RISER

N.T.S

- [illegible]



NOTE: EXISTING EQUIPMENT SHOWN SCREENED

### 3 PARTIAL ONE LINE DIAGRAM

M.T.S.

## 2 SCOPE OF WORK

**N.T.S.**

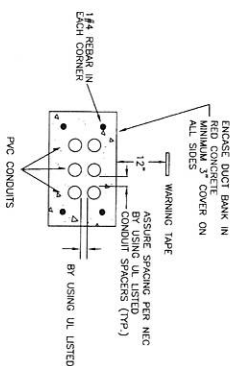
## 5 LOAD ANALYSIS

N.T.S.

LIFT STATION - LOAD ANALYSIS		MPS FOR PHASE		
LOAD DESCRIPTION	W <sub>1</sub>	W <sub>2</sub>	W <sub>3</sub>	W <sub>4</sub>
LOAD #1 (10000)	28.00	28.00	28.00	28.00
LIFT PHASE #2 (10000)	28.00	28.00	28.00	28.00
GRINDER/GRINDING AUXILIARY	16.00			
25% OF LARGEST MOTOR	7.00	7.00	7.00	7.00
TOTAL	79.00	63.00	63.00	63.00

**NOTE:**  
GENERATOR IS CONSERVATIVELY  
DESIGNED TO START WORST CASE  
MOTOR LOAD WITH NO MORE THAN  
23% VOLTAGE DIP, UP TO 35% IS  
ALLOWED PER GENERATOR  
SPECIFICATIONS.

THREED ORL EXISTING 150A 240V 3 PHASE 4 WIRE SERVICE IS ADEQUATE



#### 4 ALTERNATE GENERATOR CONTROL SEQUENCE

N.T.

[illegible]



1. FRONT LIGHT INDICATORS
2. MAIN POWER SWITCH
3. MANUAL SERVICE INSIDE OF THE LOCKING CABINET
4. 4-PIECE MONITOR
5. 4-PIECE MONITOR
6. ANALOGUE CONTROLS ON MANUAL AND EMERGENCY STATES
7. 4-PIECE MONITOR
8. TEST SWITCH
9. TOUCH PAD WITH LED DISPLAY SCREEN
10. MICROPROCESSOR BASED LOGIC AND CONTROLS
11. REMOTE MONITORED ENCLOSURE
12. REMOTE MONITORED ENCLOSURE
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ALL CONDUIT RIGID ABOVE GRADE AND PVC BELOW GRADE (MINIMUM 3" COVER ALL SIDES)

- ALL WIRING 100% INSULATED COPPER U.O.N.

1) DUCT BANK DETAIL

N.T.

	ROBERT F. TROTT ↑ KASSIN, INC.	225 N. W. 10TH AVE. MIAMI, FL 33136 (305) 581-1811	<i>Adelle Jones</i>		The seal appearing on this document was submitted by Miss W. Jones 20511 on 11/12/72	DATE	IN COPY	
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the seal appearing on this document  
was authorized by Robert W. Young  
56551 on 11/23, 2015

APPROVAL IS IMPLIED FOR IMPROVEMENTS WITH  
 FIRST BENEFIT COUNTY ENGINEERING DEPARTMENT  
 FOR BEST COUNTY RIGHTS-OF-WAY ONLY.  
 UTILITY LINES APPROVED AS TO LOCATION ON  
 AUTHORIZATION IS VALID FOR ONE YEAR ONLY.

APPROVED: *Matthew J. [Signature]*  
 ASSISTANT TO THE COUNTY ENGINEER

DATE: 3/29/11

CPC 101 FILE NO.  
C.O.H. LOG NO.

FORT BEND COUNTY  
MUNICIPAL UTILITY DISTRICT NO. 23

## 5 LIFT STATIONS - BACKUP GENERATORS AND MODIFICATIONS

ELECTRICAL DETAILS -  
PARK BREFFZE DR

11A Engineering Inc

PROJECT NO.: 0254-2394A

R.W.Y.	G.W.S.	NOV 2015
--------	--------	----------

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY  
 AFTER DATE OF SIGNATURES

CITY OF HOUSTON  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING  
STREET & BRIDGE

DATE & TIME/LOCATION	DATE: 3-16 TIME: 11:00 AM LOCATION: A
----------------------	---

Abundant 3.3-16

DRAWING SCALE

46170

17A OF 18



**FOOT 1** IN THE TOP OF WEST CURB AT THE INTERSECTION OF PINESTONE DRIVE AND NORTH TAYLOR LANE ON THE EAST SIDE OF PINESTONE DRIVE, 10' TO 11' IN WIDTH. 5' OF THIS WIDTH IS SETBACK ONE. (1976 ADJUSTMENT)

**FOOT 2** BOUND COUNTY ROAD 100 (Hwy. 100) APPROXIMATELY 20' TO 22' IN WIDTH. 10' OF THIS WIDTH IS SETBACK TWO. (1976 ADJUSTMENT)

**FOOT 3** THE FLOOD PLAIN ELEVATION = 69.00 FEET. THE FLOOD PLAIN IS LOCATED APPROXIMATELY 100' FROM THE EAST SIDE OF THE ROAD. (1976 ADJUSTMENT)

BY LAW ENGINEERING & SURVEYING, INC.

1. ALL ITEMS ON SITE PLANS ARE EXISTING UNLESS NOTED AS "PROPOSED".
2. FOR GENERATOR MAINTENANCE PAD USE 4000PSI 18" CONCRETE REINFORCED WITH NUMBER 4 REBARING SPACED ON 12"-ON-CENTER. MINIMUM HEIGHT OF THE CURBING PAD SHALL BE 12" MINIMUM. THE CURBING PAD SHALL BE AT LEAST EQUAL TO THE WEIGHT OF THE GENERATOR SET (USING A DENSITY OF 150 LBS/CF) PLUS 10% TO ALLOW FOR A LAYER OF 8 TO 10 INCHES OF SAND OR GRAVEL SHALL BE PLACED UNDER THE PAD. CONCRETE SHALL BE ANCHORED TO EXISTING CONCRETE WITH 4" DIA. ANCHORS TO A MIN DEPTH OF 3'.
3. SEE VENTING MAP ON COVER SHEET FOR ADJACENT AREAS.

APPROVED: Musjid  
DEVELOPMENT COORDINATOR

[illegible]

5 LIFT STATIONS - BACKUP GENERATORS AND MODIFICATIONS

SITE PLAN -  
GROUPON GLEN LS

**LJA Engineering, Inc.**  
 (901) 885-1100  
 Fax: (901) 885-1101

LJA PROJECT NO:		0254-2394A
DESIGNED BY:	DRAWN BY:	DATE:
GBH	S.L.S.	SEP 2015

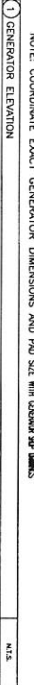
**CITY OF HOUSTON**  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

3-36 A	DATE & TIME OF INCIDENT 3-36 A
STATION NUMBER QUALITY	STATION NUMBER QUALITY

FILE NO:	DA 19A-13316
FOR CITY OF HOUSTON USE ONLY	

HORZ : 1" = 10'  
VERT :  
46170

SHEET  
No. 12A of 18



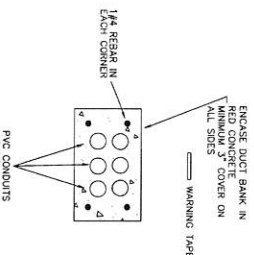
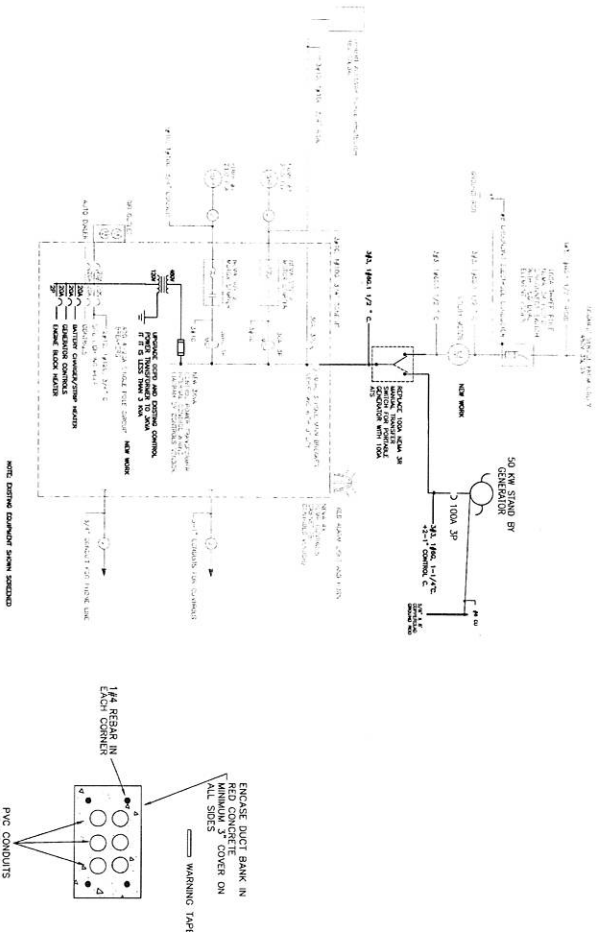
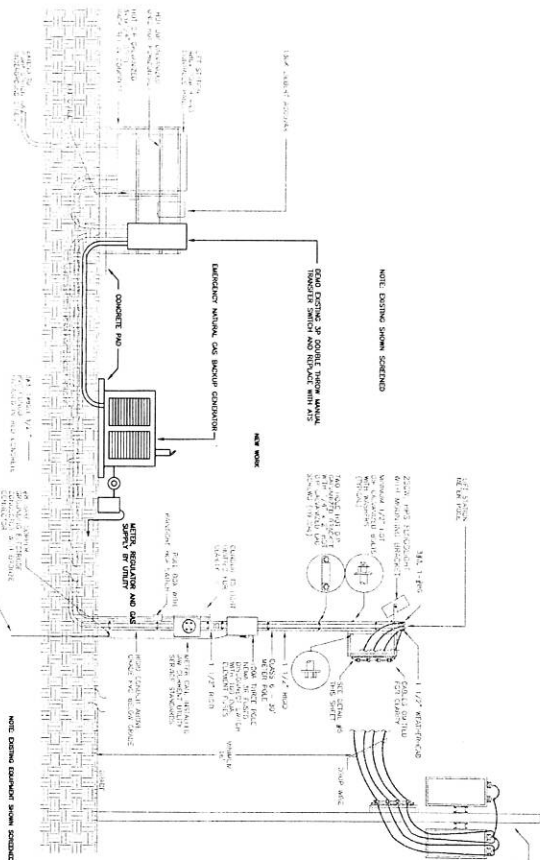
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| 1 ELECTRICAL NOTES | M.T.S. |
|--------------------|--------|

NOTE:  
IF IBC CERTIFICATION IS REQUIRED, SEE SEISMIC  
ADV FOR INSTALLATION INSTRUCTIONS

1 GENERATOR ELEVATION

N.T.S.

[illegible]



LIFT STATION - LOAD ANALYSIS		MPS PER POKE				
		Avg	Ng	Cg		
LOAD DESCRIPTION						
LFT PUMP #1(198)		21.0	21.0	21.0		
LFT PUMP #2(198)						
LFT PUMP #3(198)		21.0	21.0	21.0		
JAWA TENSOMETER		6.1	6.1			
ZONE OF ANALYST MOTOR		5.075	5.075	5.075		
TOTAL		53.536	53.536	53.535		

MOTORING DURING LOAD, MOTOR 3 WHEN SERVICE IS REQUIRED.

4	LOAD ANALYSIS	M.T.S.
---	---------------	--------

5 ALTERNATE GENERATOR CONTROL SEQUENCE	N.T.S.
--	--------




① INSTALL 1-500W 480V 3ø 4W, KOHLER NATURAL GAS GENERATOR S967CB 1800RPM (OR EQUIV. CAT STEWART AND CLEVELAND OR OTHER) WITH ATTACHED 100HP FUEL TANKS; SEE DRAWINGS FOR LOCATION.

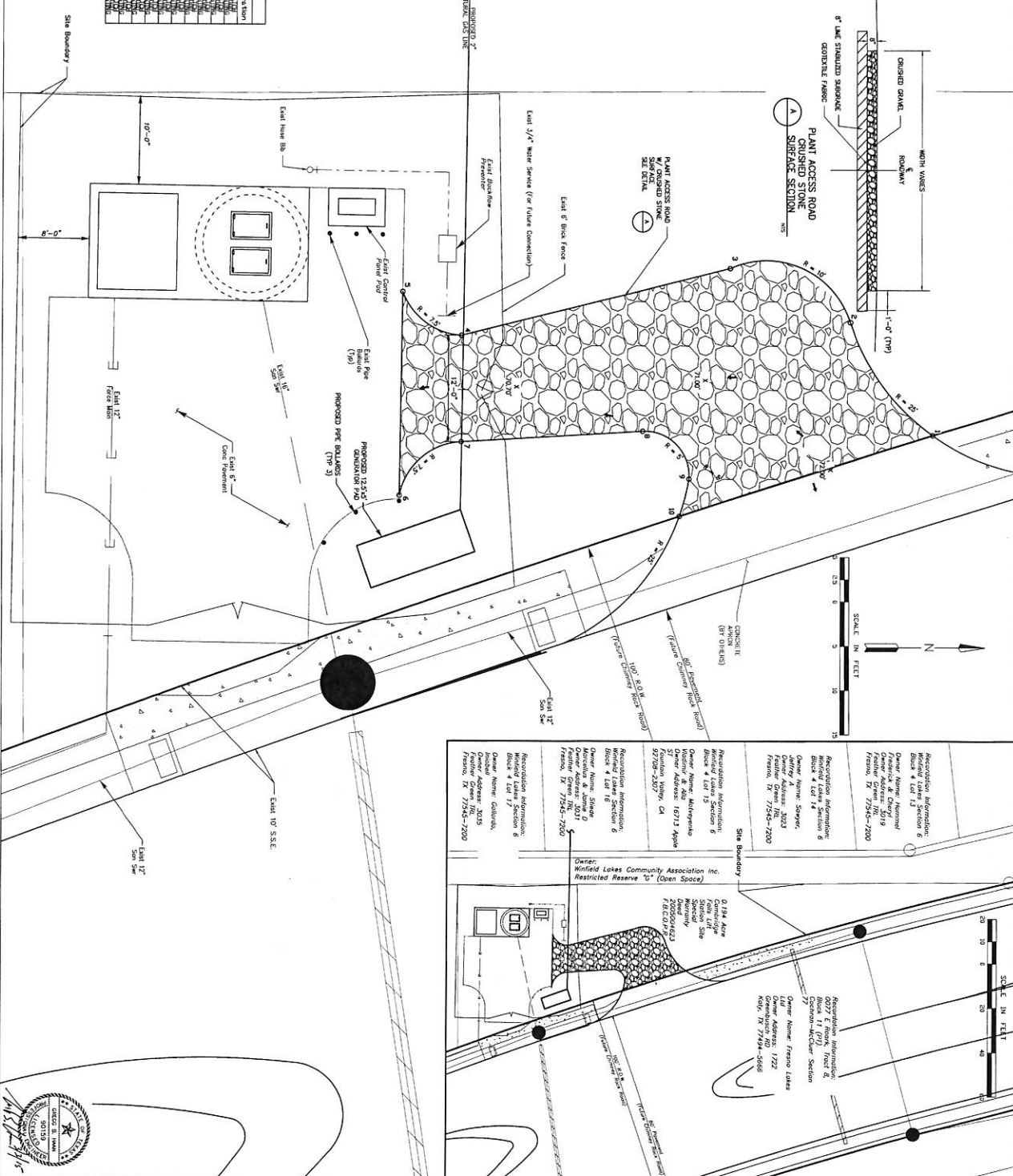
② PROVIDE AUTOMATIC TRANSFER SWITCH WITH THE FOLLOWING FEATURES:

10

1. MAIN DISTRIBUTION BOARD
2. MAIN SWITCH
3. 3-PHASE MAINS SUPPLY
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		CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING PUBLIC WORKS BUREAU 11000 WESTHELL DRIVE, SUITE 100 HOUSTON, TEXAS 77036-2899 TEL: 713-895-5676 FAX: 713-895-5676 E-MAIL: <a href="mailto:info@cityofhouston.org">info@cityofhouston.org</a>	
PROJECT NO.: 14447-18	DRAWING SCALE: N.T.S.	DESIGNED BY: B.M.W.	PROJECT NO.: 0254-4-234A
SHEET 14447-18	DATE: MAY 2015	CHECKED BY: C.A.S.	DATE: MAY 2015
TITLE NO. 14447-18-354		DATE FOR THE CITY OF HOUSTON MAY 2015	
USE CITY OF HOUSTON USE ONLY		DATE FOR THE STATE OF TEXAS MAY 2015	

Point #	Northings	Eastings	Elevation
1	12075.7874	12670.0811	141.0
2	12066.4231	12657.2721	141.0
3	12002.7666	12653.2845	141.0
4	12022.3525	12658.8920	141.0
5	12015.6539	12655.3919	141.0
6	12015.3075	12676.3938	141.0
7	12022.2513	12671.0802	141.0
8	12041.8933	12666.6746	141.0
9	12041.8456	12672.0076	141.0
10	12041.2515	12672.0292	141.0



## BENCHMARK TOUT IN THE

100 N. GILSON ROAD (STATION # 00.05)  
 100 GILSON ROAD (STATION # 00.05)  
 BY L&L ENGINEERING & SURVEYING, INC.

NOTES

- UNLESS NOTED AS "PROPOSED", <sup>1</sup>CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
2. FOR GENERATOR MAINTENANCE PAUL USE NUMBER 2 REINFORCING BARS (ELECTRICALLY GALVANIZED) WITH A MINIMUM TENSILE STRENGTH OF 60,000 PSI. THE TOTAL WEIGHT OF THE MOUNTING PLATE SHALL BE AT LEAST EQUAL TO THE WEIGHT OF THE GENERATOR. THE PLATE SHALL BE A LAYER OF 8 TO 10 INCHES OF SAND OR GRAVEL SHALL BE PLACED UNDER THE PLATE. THE PLATE SHALL BE REINFORCED WITH 2" X 2" X 1/4" GALVANIZED STEEL BOLTS BURNED IN THE SURFACE OF THE PLATE TO A MIN DEPTH OF 5".
  3. SEE VENTILATION ON COVER SHEET FOR MOUNTING AREAS.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: Masjid  
DEPUTY CHIEF OF POLICE

DATE: 3/29/16

DATE	REVISION

PLAT NAME:					
------------	--	--	--	--	--

FORT BEND COUNTY  
MUNICIPAL UTILITY DISTRICT NO. 23

## 5 LIFT STATIONS - BACKUP GENERATORS AND MODIFICATION

SITE PLAN -

© 2006 The Authors  
Journal compilation © 2006 Blackwell Publishing Ltd

11A (RDO) ECT A.O.	0964-5704
Only to be used on New York States, (New York)	Phone (718) 7 60 7 7 00 7700

RECORDED BY:	DATE:	DATE:
G.B.H.	S.L.S.	SEP 2015

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY

CITY OF HOUSTON  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

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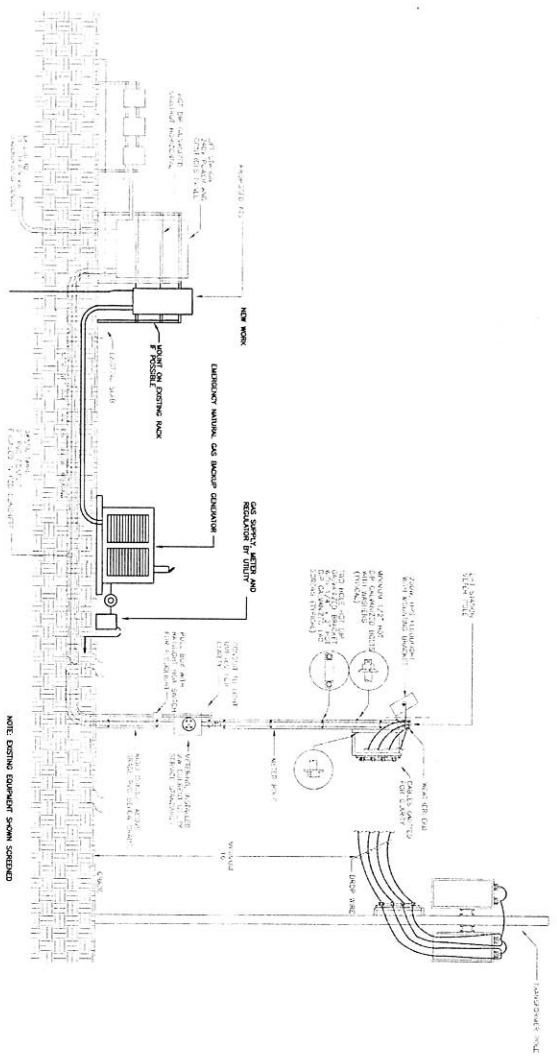
DRAWING SCALE

1" = 1'

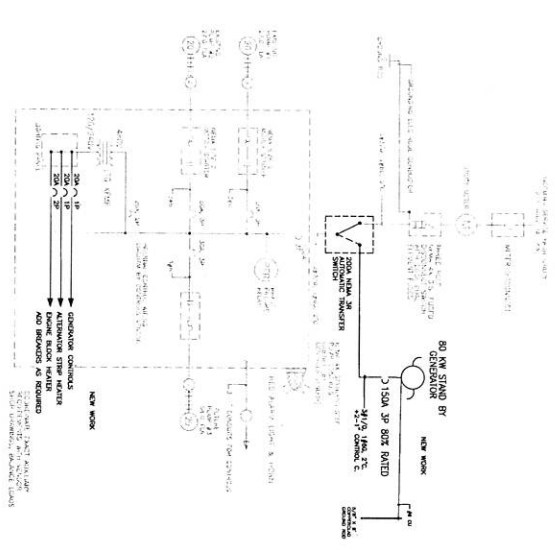
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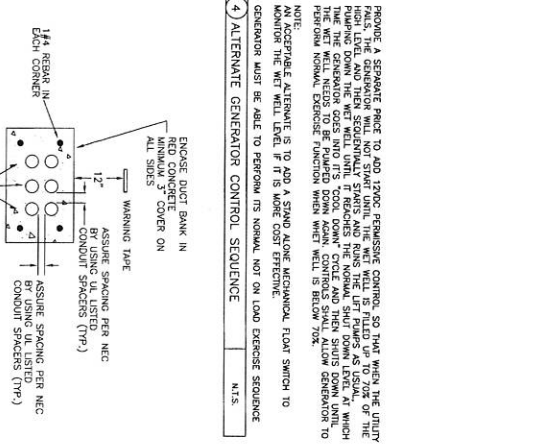




8) SERVICE ENTRANCE RISER  
N.T.S.



3) PARTIAL ONE LINE DIAGRAM  
N.T.S.



1) DUCT BANK DETAIL  
N.T.S.

**LIFT STATION - LOAD ANALYSIS**

LOAD DESCRIPTION	AMP PER FEED	%	%
LIFT STATION #10000	2700	27.00	27.00
LIFT STATION #10000	2700	27.00	27.00
<b>TOTAL</b>	<b>5400</b>	<b>54.00</b>	<b>54.00</b>

NOTE: ONLY TWO LIFT PUMPS AT ANY GIVEN TIME.

6) LOAD ANALYSIS  
N.T.S.

1. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
2. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
3. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
4. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
5. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
6. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
7. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
8. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
9. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
10. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
11. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
12. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
13. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
14. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.
15. PROVIDE A SEPARATE FRAME TO ADD A 1000 AMP PERMISSIVE CONTROL SO THAT WHEN THE UTILITY HIGH LEVEL AND THEN SEQUENTIALLY STARTS AND RUNS THE LIFT PUMPS AS USUAL, AT WHICH TIME THE GENERATOR GOES INTO ITS "DOWN" POSITION. CONTROLS SHALL ALLOW GENERATOR TO PERFORM NORMAL EMERGENCY FUNCTION WHEN WET WELL IS BELOW 70%.

1) SCOPE OF WORK  
N.T.S.

**PORT BEND COUNTY ENGINEERING DEPARTMENT**  
 5001 N. 17th St., Suite 100  
 Houston, TX 77058  
 281.461.1700  
 www.portbendcountytx.gov

**PROJECT INFORMATION**  
 PROJECT NO. 0254-2394A  
 PROJECT NAME: 5 LIFT STATIONS - BACKUP GENERATORS & MODIFICATIONS  
 LOCATION: CHEMNEY ROCK LIFT STATION  
 DATE: 3/29/16

**DESIGNED BY:** [Signature]  
**CHECKED BY:** [Signature]  
**APPROVED BY:** [Signature]  
**DATE:** 3/29/16

**CLIENT:** CITY OF HOUSTON  
 16170  
 17th St., Suite 100  
 Houston, TX 77058  
 281.461.1700

**PROJECT NO.:** 0254-2394A  
**PROJECT NAME:** 5 LIFT STATIONS - BACKUP GENERATORS & MODIFICATIONS  
**LOCATION:** CHEMNEY ROCK LIFT STATION  
**DATE:** 3/29/16



