



Filing Receipt

Received - 2021-10-27 12:11:31 PM
Control Number - 52299
ItemNumber - 481



10/27/21

RE: The Public Utility Commission of Texas - Project 52299

As required by The Public Utility Commission of Texas Project 52299 please find enclosed information regarding The City of Blue Mound's water facility.

Water Utility Name: The City of Blue Mound

Mailing Address: 1817 Fagan Dr. Blue Mound, Texas 76131

Office Phone: 817-306-4540

Emergency Contact #1: Joey Alvarez 682-229-6891

Emergency Contact #2: Loegan Fuller 210-253-0617

In summary, The City of Blue Mound has a Pump House, Chlorine Room, 125,000-gal Ground Storage Tank, 150,000-gal Elevated Water Tank, and one (1) Well located at 1601 Bell Ave. Blue Mound, Texas 76131.

The City of Blue Mound also has a Pump House, Chlorine Room, 245,000-gal Ground Storage Tank, and two (2) Wells located at 1825 Fagan Dr. Blue Mound, TX 76131.

This facility provides water services to the entire City of Blue Mound.

Attached please find our project load reports for our wells/pumps as well as our infrastructure map(s).

Thank you,

The City of Blue Mound



Project Load Report

Version: 2.2

Data Date: 5/12/2008

Modified Date

3/16/2017

Rating Type

Standby

Max Ambient Temperature

105 Deg. F

Customer Name:

City of Blue Mound, TX

Fuel

Diesel

Altitude

500.0 Ft. A.S.L

Project Name/Ref #

Fagan Drive Water Pumps

Electricity Supply

60 Hz 480/277 V

Prepared By

Load Details			Frequency Dip			Voltage Dip			Load Analysis							
Load Step	Load Description		Permitted Frequency Dip	Step Maximum Permitted	Predicted Frequency Dip	Permitted Voltage Dip	Step Maximum Permitted	Predicted Voltage Dip	Transient Inrush		Running		Resultant Peak		Cumulative Running	
									SkVA	SkW	kVA	kW	kVA	kW	kVA	kW
Step 1																
1.1	1	5.00 kW Gas Discharge														
		Gas Discharge Lighting, Distr. 3-Phase	20%			20%			6.7	5.0	5.6	5.0				
1.2	1	2.78 Refrigerant Tons Motor - NEMA														
		NEMA, Air Conditioning, Across the line, Int.	30%			30%			44.6	23.6	5.4	4.3				
1.3	1	75.00 HP Motor - NEMA														
		#1 Well Pump														
		NEMA, 3-Phase Motor, VFD, 110% CurrentL	20%			20%			7.0	6.3	70.3	63.3				
1.4	1	15.00 HP Motor - NEMA														
		#2 well pump														
		NEMA, Centrifugal Pump, Across the line, L...	30%			30%			79.5	38.2	15.1	12.6				
1.5	1	30.00 HP Motor - NEMA														
		Booster Pump #2														
		NEMA, Centrifugal Pump, Across the line, L...	30%			30%			159.0	66.8	28.6	24.6				
1.6	1	30.00 HP Motor - NEMA														
		Booster Pump #3														
		NEMA, Centrifugal Pump, Across the line, L...	30%			30%			159.0	66.8	28.6	24.6				
Step 1 Total				20%	18.5%		20%	19.2%	453.4	206.7	153.3	134.4				
Total Through Step 1													511.3	270.0	153.3	134.4
Step 2																
2.1	1	30.00 HP Motor - NEMA														
		NEMA, Centrifugal Pump, VFD, 110% Curre...	20%			20%			3.0	2.7	29.7	26.7				
Step 2 Total				20%	<5.0%		20%	<5.0%	3.0	2.7	29.7	26.7				
Total Through Step 2													186.0	163.8	183.0	161.1
Intermittent Step																
3.2	1	2.78 Refrigerant Tons Motor - NEMA														
		NEMA, Air Conditioning, Across the line, Int.	30%			30%			44.6	23.6	5.4	4.3				
Step 3 Total				20%	<5.0%		20%	<5.0%	44.6	23.6	5.4	4.3				
Total Through Step 3													217.4	180.4	183.0	161.1



Project Load Report

Version: 2.2

Data Date: 5/12/2008

Modified Date: 3/16/2017 Rating Type: Standby Max Ambient Temperature: 105 Deg. F
Customer Name: City of Bluemound, TX Fuel: Diesel Altitude: 500.0 Ft. A.S.L.
Project Name/Ref #: Generator sizing for water... Electricity Supply: 60 Hz 240/139 V *delta*
Prepared By: *Bell Ave*

Load Details			Frequency Dip			Voltage Dip			Load Analysis							
Load Step		Load Description	Permitted Frequency Dip	Step Maximum Permitted	Predicted Frequency Dip	Permitted Voltage Dip	Step Maximum Permitted	Predicted Voltage Dip	Transient Inrush		Running		Resultant Peak		Cumulative Running	
									SkVA	SkW	kVA	kW	kVA	kW	kVA	kW
Step 1																
1.1	1	5.00 kW Gas Discharge														
		Gas Discharge Lighting, Distr. 3-Phase	20%			20%			6.7	5.0	5.6	5.0				
1.2	1	2.78 Refrigerant Tons Motor - NEMA														
		NEMA, Air Conditioning, Across the line, Int...	30%			30%			44.6	23.6	5.4	4.3				
1.3	1	15.00 HP Motor - NEMA														
		#1 Well Pump														
		NEMA, 3-Phase Motor, Across the line, Loa...	30%			30%			79.5	38.2	15.1	12.6				
1.4	1	7.50 HP Motor - NEMA														
		Booster Pump #1														
		NEMA, Centrifugal Pump, Across the line, L...	30%			30%			44.6	23.6	8.0	6.5				
1.5	1	25.00 HP Motor - NEMA														
		Booster Pump #2														
		NEMA, Centrifugal Pump, Across the line, L...	30%			30%			132.5	57.0	24.4	20.7				
		Step 1 Total		20%	8.2%		20%	19.4%	307.0	147.4	58.4	49.1				
		Total Through Step 1											307.0	147.4	58.4	49.1
Intermittent Step																
2.2	1	2.78 Refrigerant Tons Motor - NEMA														
		NEMA, Air Conditioning, Across the line, Int...	30%			30%			44.6	23.6	5.4	4.3				
		Step 2 Total		20%	<5.0%		20%	<5.0%	44.6	23.6	5.4	4.3				
		Total Through Step 2											95.2	68.4	58.4	49.1

Commercial & Industrial - Load Requirements

Please Complete in Full and return to Project Manager

Include a copy of plat and water and sewer prints.



Oncor Electric Delivery Company LLC
a Delaware limited liability company

Company Use ONLY - WR #: _____

Your electric service request will be processed upon form completion in its entirety, signed and returned to the appropriate Oncor Electric Delivery Company Project Manager. Allow 10 working days for an estimated cost for providing electric service, including all applicable charges and approximate timeline for construction completion after all required documents have been provided. Please visit the Oncor Electric Delivery web site for information concerning electric service guidelines, approved meter-bases and other service installation requirements. All meters must be located outside the building, cannot be located within an enclosed area, and must meet proper clearance requirements.
http://oncor.com/electricity/construction/guidelines/const_guide.aspx

Project / Customer Name: City of Blue Mound, TX Project Location / Cross Streets: Bell St
Physical Address: 1605 Bell Ave Blue Mound TX 76131
Street Address City Zip Code
Office Phone: 817.306.4540 Cell Phone: 817.909.7829 Fax # _____ E-mail Address: dbrewer@bluemoundtexas.us
General Contractor: City Phone: above Fax: _____
Electrical Contractor: TBD Phone: _____ Fax: _____

Requested Dates for Electric Service: Temporary Service na Permanent Service Summer 2019

- If available - Please Provide:

Additional Design Charge

Temporary Premise Number: _____

Permanent Premise Number: _____

This charge is made for preparing iterative designs to provide new service to a specific location where such iterations are at the request of the Retail Customer/CR for the Retail Customer's sole benefit. The initial two designs on a project will be included in the system charges; any additional designs will be done at Retail Customer's expense pursuant to this charge.

Designated responsible party for payment of any costs associated with providing electrical service. Contribution in Aid of Construction ("CIAC") shall be payable to Oncor Electric Delivery Company prior to any construction scheduling. Please check only one:

Customer ☒ General Contractor ☐ Architect ☐ Electrical Contractor ☐ Other _____

Federal Tax ID #: _____ or Valid Driver's License #: _____ State of _____

ELECTRIC REQUIREMENTS

A site plan will be required identifying the proposed transformer, meter and other Oncor equipment locations. A survey or plat may be required by the Oncor project manager. An easement for the onsite Oncor facilities will be required either by a final plat or by a separate instrument. A copy of the warranty deed will be required if a separate instrument is secured for the Oncor easement.

Hours of Operation: _____ A.M. to _____ P.M. or Other: 24/7/365 Days of Operation: _____ thru _____

Number of Electrical Meters Requested: 1 and Service Size in AMPS: 400

Number of Conductors per Phase: 2 Wire Size: 3/0 Requested Service Type: Overhead ☐ Underground svc ☒

Will any generators be installed on this project? yes, with manual transfer switch

Transocket Delivery Information:

Required Date: _____

Ship to-- Attn: _____ Address: _____ City: _____ TX Zip: _____

- > Allow up to 10 business days for preliminary cost estimate and an additional 3 weeks (minimum) for scheduling an Oncor Electric Delivery Crew.
- > Required permits, utility easements and surveying will necessitate additional design time.
- > All three-phase transformers will require a 14 to 16 week lead time - no exceptions.
- > Oncor Electric Delivery will provide the least cost design. This design will be considered Iterative Design #1.
- > Excess facilities at the request of the customer shall result in additional charges to the customer.
- > It is the customer's responsibility to clear right-of-way for the installation of electric distribution facilities to company specifications.

Harry Wynne
Signature

Harry Wynne
Printed Name

PE, Consultant
Title

Office Phone _____
Cell Phone 817.995.3220

hwyne@multatech.com
E-Mail Address

1-16-19
Date



Oncor Electric Delivery Company LLC
a Delaware limited liability company

Project / Customer Name: City of Blue Mound Bell Street Pump Station

If a commercial project, please provide the total square footage of building and the square footage of HVAC space.

Total Building Square Footage: 900 HVAC Square Footage: 850

Requested Voltage (circle only one)

Single Phase - 120/240 3 Phase - 120/208 3 Phase - 120/240 3 Phase - 277/480 3 Phase - 480

Single Phase - 240/480 Other: _____

Indicate only one:

New Load



Adding Load to an Electrically Energized Service



ELECTRIC LOAD REQUIREMENTS
(Please use an additional page if necessary)

HVAC Load Information:

Quantity	Phase	Volts	Tons	SEER	Connected kW - Each	Heat kW - Each
<u>1</u>	<u>1</u>	<u>208</u>	<u>5</u>	<u>13</u>	<u>8</u>	<u>8</u>

Motor Load Information:

Quantity	Phase	Volts	HP Each	Start Type	Equipment Description
<u>3</u>	<u>3</u>	<u>480</u>	<u>40</u>	<u>VFD</u>	<u>Booster pumps</u>

Lighting & Miscellaneous Load Information:

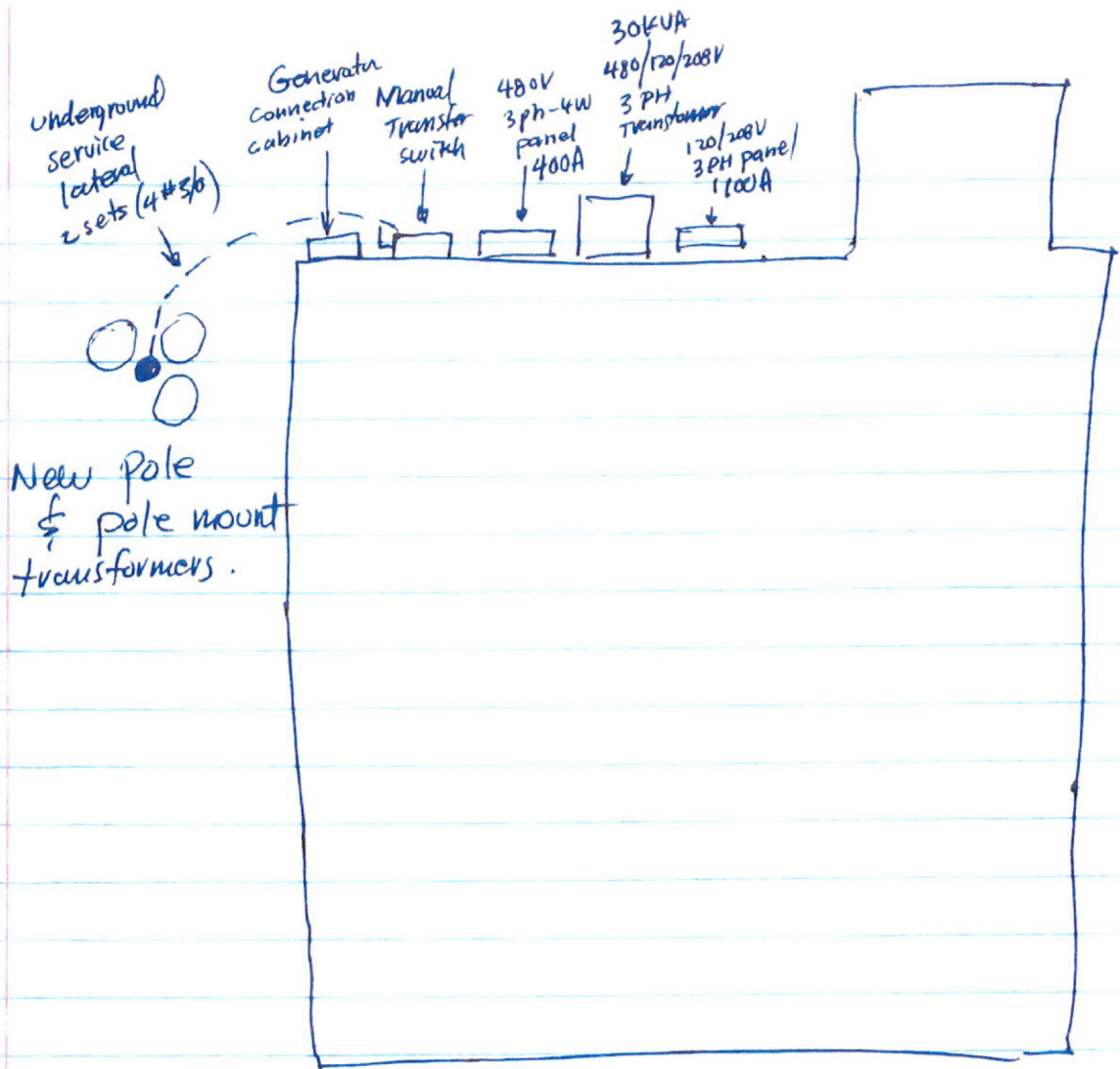
Quantity	Phase	Volts	Connected kW - Each	Equipment Description
<u>11</u>	<u>1</u>	<u>120</u>	<u>0.1</u>	<u>LED room lighting</u>
<u>7</u>	<u>1</u>	<u>120</u>	<u>0.150</u>	<u>LED exterior lighting</u>
<u>1</u>	<u>3</u>	<u>480</u>	<u>166</u>	<u>future expansion load of 200A 3 ph</u>
<u>lot</u>	<u>1</u>	<u>120</u>	<u>10</u>	<u>controls and misc low volt recept loads</u>

Signature Harry Wynne
n/a
Office Phone

817.995.3220
Cell Phone

Harry Wynne
Printed Name
hwyne@multatech.com
E-Mail Address

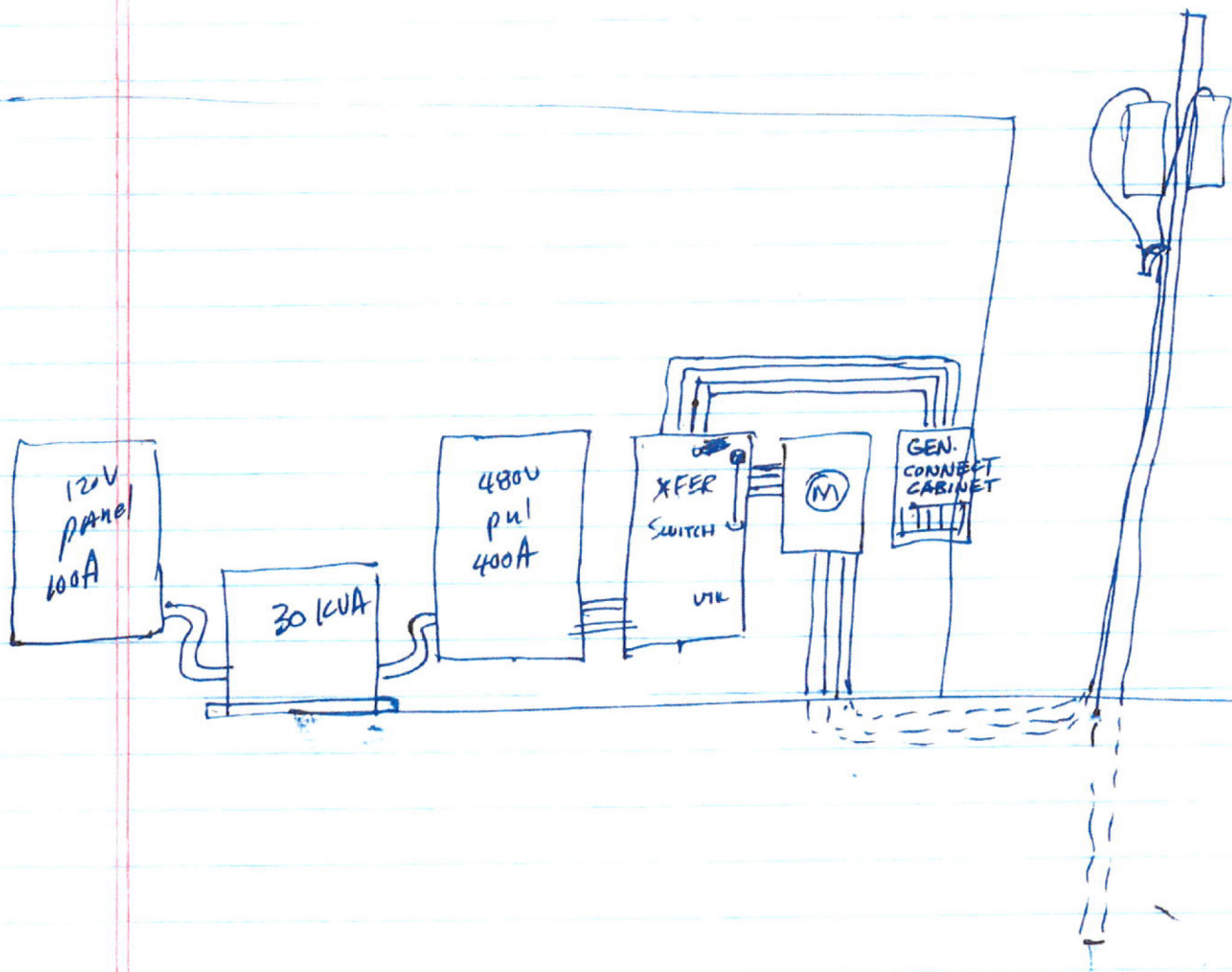
PE, Consultant
Title
1-16-19
Date



Bell St - new elec. suc. entry

plan (NTS)

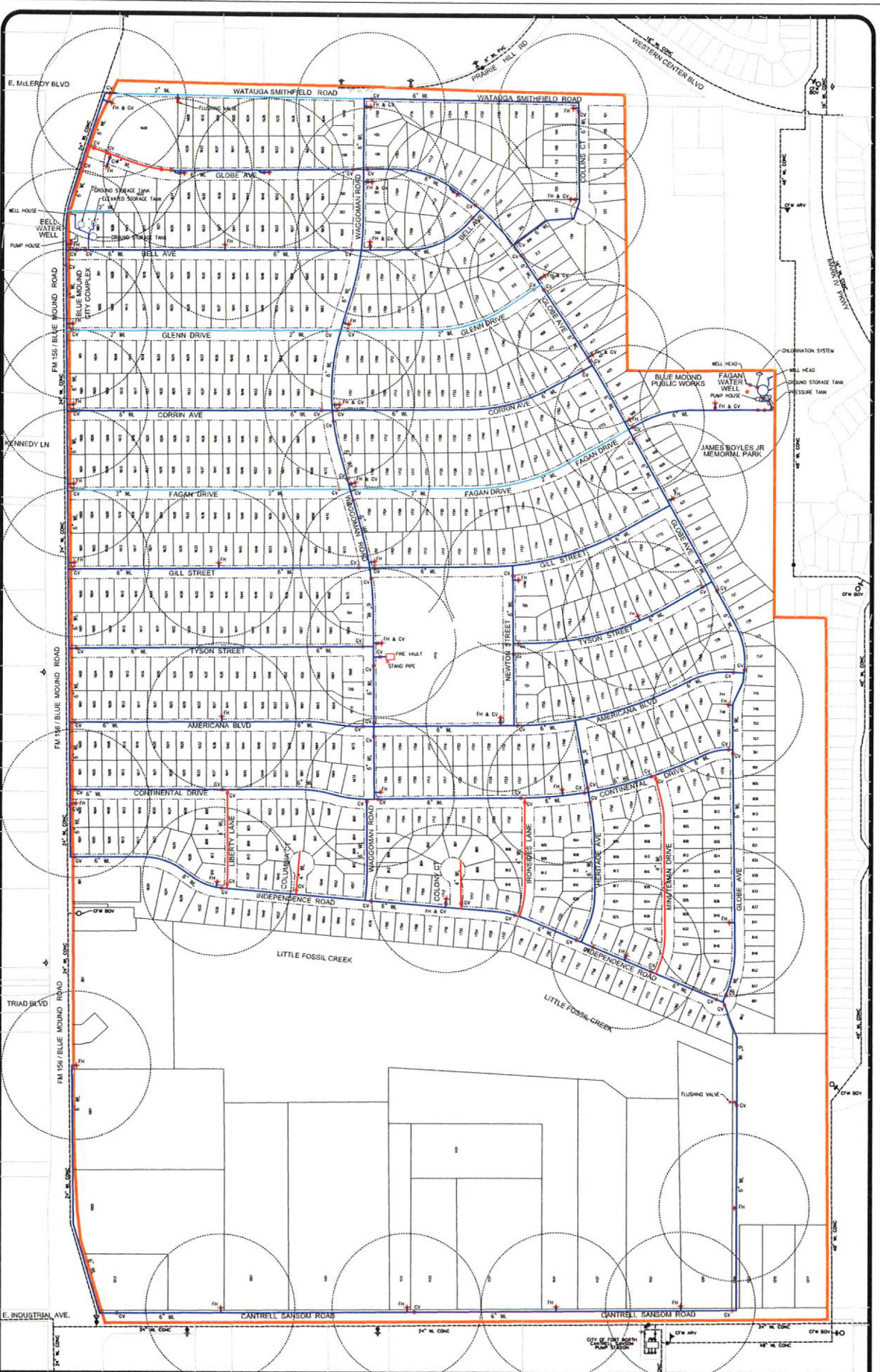
Note - disconnect ^{entry} feeder from existing pole mount suc north of Bldg.




Bell St - new elect. sub entry
Elevation (NTS)


1-16-19

PANEL H		SURF MTG		VOLTAGE: 480/277		PH: 3		BUS (AMPS): 400		MCB 400		MAIN AT BOTTOM	
LOCATION: OUTSIDE		# SECTIONS: 1		WIRE: 4		KAIC: 14		FEEDER SIZE: 2SET#3/0					
DESCRIPTION	BRANCH CKT DESCRIPTION	LOAD (VA)	BREAKER #P	AMPS	CIRCUIT NUMBER	BREAKER #P	AMPS	LOAD (VA)	BRANCH CKT DESCRIPTION	DESCRIPTION			
BOOSTER PUMP 40 HP	3#6, #8G, 1" C	14404	3	125	1 A	2							
		14404			3 B	4							
		14404			5 C	6							
BOOSTER PUMP 40 HP	3#6, #8G, 1" C	14404	3	125	7 A	8							
		14404			9 B	10							
		14404			11 C	12							
BOOSTER PUMP 40 HP	3#6, #8G, 1" C	14404	3	125	13 A	14							
		14404			15 B	16							
		14404			17 C	18							
HTG		1700			19 A	20							
		1700			21 B	22							
		1700			23 C	24							
LTG		500			25 A	26							
		500			27 B	28							
		500			29 C	30							
MISC RECEIPT		3000			31 A	32							
		3000			33 B	34							
		3000			35 C	36							
FUTURE EXPANSION LOA	3#3/0, #6G, 2" C	55000	3	200	37 A	38							
200A 3 PH		55000			39 B	40							
		55000			41 C	42							
TOTAL CONNECTED LOAD		(KVA)	310		(AMPS)	373		PHASE A (VA)		103,412			
TOTAL NEC COMPUTED LOAD			323			388		PHASE B (VA)		103,412			
								PHASE C (VA)		103,412			
SUMMARY LOAD CALCULATIONS													
	CONNECTED	NEC FACTOR	PRELIM NEC COMPUTED	FINAL NEC COMPUTED	KVA	NOTES							
LIGHTING	2	1.25	1.9	2									
HEATING	5	1.25	6.4	6									
AIR CONDITIONING		1.00											
RECEPTACLES	9	NEC	9.0	8									
MISCELLANEOUS	165	1.00	165.0	165									
KITCHEN		0.65											
MOTOR	130	NEC	140.4	140									
TOTAL	310			323									
NOTES: NOT FOR CONSTRUCTION--FOR SERVICE SIZING ONLY!													





TSPE Reg #7351
2821 West 7th St Suite 400
Fort Worth, Texas
76107-2219



PUBLIC WORKS DIVISION
OVERALL WATER PLAN
CITY OF BLUE MOUND, TEXAS

1817 FAGAN DRIVE
BLUE MOUND, TEXAS 76131

LEGEND

- OFF-LEAK LINE
- 2" WATER LINE - CITY OF BLUE MOUND
- 6" WATER LINE - CITY OF BLUE MOUND
- 12" WATER LINE - CITY OF BLUE MOUND
- 18" WATER LINE - CITY OF BLUE MOUND
- VALVE - CITY OF BLUE MOUND
- VALVE - CITY OF FORT WORTH

DATE: 10/10/10 BY: J. M. RICHARDS



Location of Existing 150,000
Gallon Elevated Water Tank

Well #1

Chlorine Room
and
Pump Room

Location of Existing 125,000
Gallon Ground Storage Tank

ve

Bell Ave

Bell Ave

Bell Ave

