

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 24th day of May, 2016, Commissioners Court came on to be heard and reviewed the accompanying notice of Salvador Guerra / W.W. Payton Corporation Job Location 1505 1/2 Trails of Katy Lane, Katy, TX 77494 Date 3/29/2016 Bond No. 46BSBGJ8121, Permit No. 2016-6568 to make use of certain Fort Bend County property subject to, "A Revised 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 the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statutes. 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.

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
 Mail notices to: Permit Administrator
 Fort Bend County Engineering
 301 Jackson Street
 Richmond, Texas 77469
 281-633-7500
3. This permit expires one (1) year from date of permit if construction has not commenced.

By: Charles O. [Signature]
for County Engineer

Presented to Commissioners Court and approved.
Recorded in Volume _____
Minutes of Commissioners Court

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: _____
Deputy

County of Fort Bend

Engineering Department

301 Jackson Street
Richmond, Texas 77469

Johnny Ortega
Permit Administrator

Phone: (281) 633-7500

Permit Application Review Form For Cable, Conduit, and Pole Line Activity In Fort Bend County

Permit No. 2016-6568

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:
- District Attorney, approval when applicable.
- Perpetual bond currently posted.
- No: _____
- Amount: _____
- Performance bond submitted.
- No: 46BSBGJ8121
- Amount: \$5,000.00
- Cashier's Check
- No: _____
- Amount: _____
- (3) Verbal permission given for emergencies, to start construction before approved in Commissioner's Court.

Precinct Engineer Acknowledgment

Date

Precinct Commissioner Acknowledgment

Date

(4)

Drainage District Approval when applicable

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

 CFM

Johnny Ortega CFM/Permit Administrator



Date

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

AUTHORIZED

BOND NO 46BSBGJ8121

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

§

THAT WE, W. W. Payton Corporation whose address is P.O. Box 1056, Katy, TX 77492-1056 Texas, hereinafter called the Principal, And Hartford Casualty Insurance Company, a Corporation existing under and by virtue of the laws of the state of Indiana and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at Hartford, Connecticut, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Michael Heidrick and Whose address is Hartford, 3000 Internet Blvd., #600, Frisco, TX 75034, 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 and No/100----- Dollars (\$ 5,000.00) current, lawful money of the United Stated 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, commercial driveway and median openings or modifications 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, commercial driveway and median openings or modifications;

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, commercial driveway and median openings or modifications 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 29th day of March, 2016.

W. W. Payton Corporation
PRINCIPAL

BY Wesley W. Payton, President

Hartford Casualty Insurance Company
SURETY

BY Sharon Cavanaugh Attorney-in-Fact

POWER OF ATTORNEY

Direct Inquiries/Claims to:

THE HARTFORD
 BOND, T-4
 One Hartford Plaza
 Hartford, Connecticut 06155

call: 888-266-3488 or fax: 860-757-5835

Agency Code: 61-610074 & 46-605987

KNOW ALL PERSONS BY THESE PRESENTS THAT:

- Hartford Fire Insurance Company**, a corporation duly organized under the laws of the State of Connecticut
- Hartford Casualty Insurance Company**, a corporation duly organized under the laws of the State of Indiana
- Hartford Accident and Indemnity Company**, a corporation duly organized under the laws of the State of Connecticut
- Hartford Underwriters Insurance Company**, a corporation duly organized under the laws of the State of Connecticut
- Twin City Fire Insurance Company**, a corporation duly organized under the laws of the State of Indiana
- Hartford Insurance Company of Illinois**, a corporation duly organized under the laws of the State of Illinois
- Hartford Insurance Company of the Midwest**, a corporation duly organized under the laws of the State of Indiana
- Hartford Insurance Company of the Southeast**, a corporation duly organized under the laws of the State of Florida

having their home office in Hartford, Connecticut, (hereinafter collectively referred to as the "Companies") do hereby make, constitute and appoint, **up to the amount of unlimited:**

*Andrew J. Janda, C. W. Adams, Sue Kohler, Leland L. Rauch, Sharon Cavanaugh, Cheryl R. Colson,
 Michael Cole, Kurt A. Risk, James Wynne Tomforde*
 of
Houston, TX

their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign its name as surety(ies) only as delineated above by and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

In Witness Whereof, and as authorized by a Resolution of the Board of Directors of the Companies on January 22, 2004 the Companies have caused these presents to be signed by its Assistant Vice President and its corporate seals to be hereto affixed, duly attested by its Assistant Secretary. Further, pursuant to Resolution of the Board of Directors of the Companies, the Companies hereby unambiguously affirm that they are and will be bound by any mechanically applied signatures applied to this Power of Attorney.



Wesley W. Cowling

Wesley W. Cowling, Assistant Secretary

M. Ross Fisher

M. Ross Fisher, Assistant Vice President

STATE OF CONNECTICUT }
 COUNTY OF HARTFORD } ss. Hartford

On this 12th day of July, 2012, before me personally came M. Ross Fisher, to me known, who being by me duly sworn, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Assistant Vice President of the Companies, the corporations described in and which executed the above instrument; that he knows the seals of the said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed by authority of the Boards of Directors of said corporations and that he signed his name thereto by like authority.



CERTIFICATE

Kathleen T. Maynard
 Kathleen T. Maynard
 Notary Public
 My Commission Expires July 31, 2016

I, the undersigned, Assistant Vice President of the Companies, 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 effective as of **March 29, 2016**
 Signed and sealed at the City of Hartford.



Gary W. Stumper

Gary W. Stumper, Assistant Vice President

Inquiries Regarding Claims

Hartford Fire Insurance Company	Twin City Insurance Company
Hartford Casualty Insurance Company	Hartford Insurance Company of Illinois
Hartford Accident and Indemnity Company	Hartford insurance Company of the Midwest
Hartford Underwriters Insurance Company	Hartford Insurance Company of the Southeast

Please address inquiries regarding **Claims** for all surety and fidelity products issued by The Hartford's underwriting companies to the following:

Phone Number : 888-266-3488
Fax - Claims : 860-757-5835 or 860-547-8265
E-mail : claims@1stepsurety.com

Mailing Address : The Hartford
The Hartford Fidelity & Bonding (BOND)
Hartford Plaza
690 Asylum Avenue
Hartford, CT 06115

IMPORTANT NOTICE

To obtain information or make a complaint:

You may contact your agent.

You may call Hartford Insurance Group at the toll free telephone number for information or to make a complaint at:

1-800-392-7805

You may also write to The Hartford:

**The Hartford
Hartford Financial Products
2 Park Avenue, 5th Floor
New York, New York 10016
1-212-277-0400**

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at:

1-800-252-3439

~~You may write the Texas Department of Insurance~~

P.O. Box 149104
Austin, TX 78714-9104
Fax Number (512) 475-1771
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

PREMIUM OR CLAIMS DISPUTES: Should you have a dispute concerning your premium or about a claim you should contact the agent first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

ATTACH THIS NOTICE TO YOUR POLICY: This notice is for your information only and does not become a part or condition of the attached document.

AVISO IMPORTANTE

Para obtener informacion o para someter una queja.

Puede comunicarse con su agente.

Usted puede llamar al numero de telefono gratis de The Hartford Insurance Group para informacion o para someter una queja al

1-800-392-7805

Usted tambien puede escribir a The Hartford.

**The Hartford
Hartford Financial Products
2 Park Avenue, 5th Floor
New York, New York 10016
1-212-277-0400**

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de companias, coberturas, derechos o quejas al:

1-800-252-3439

~~Puede escribir al Departamento de Seguros de Texas~~

P.O. Box 149104
Austin, TX 78714-9104
Fax Number (512) 475-1771
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

DISPUTAS SOBRE PRIMAS O RECLAMOS: Si tiene una disputa concerniente a su prima o a un reclamo, debe comunicarse con su agente primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA: Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto.

CONSTRUCTION

OF

WATER PLANT No. 1 - PHASE II & REMOTE WATER WELL

FOR

K. B. HOME LONE STAR, INC. AND VENTANA DEVELOPMENT KATY, LTD.

ON BEHALF OF

WILLOW POINT MUNICIPAL UTILITY DISTRICT

FORT BEND COUNTY, TEXAS

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30.	REMOTE WATER WELL ELECTRICAL DETAILS

NOTES:
 These plans were prepared to meet or exceed the specifications and requirements of the City of Houston, Texas and Fort Bend County, Texas as currently amended, whichever is more stringent.
 Approval by Fort Bend County will be deemed void if construction has not begun within one year of approval date.
 Construction shall not begin before the plot of this section is filed in the Fort Bend County Map Records.
 Construction will be monitored by a registered professional engineer of JONES & CARTER, INC.
 Contractor shall notify the Fort Bend County Engineering Department at least 48 hours prior to commencement at (281) 633-7500.

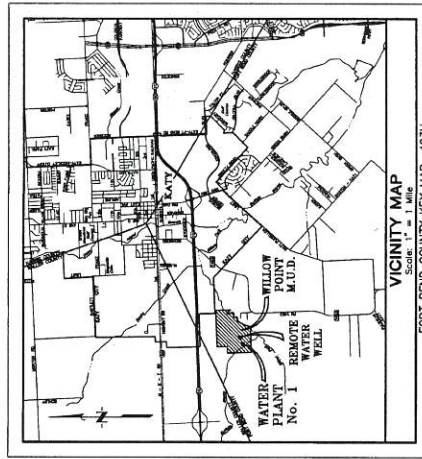
I, TROY W. McQUEENY, a Professional Engineer, licensed in the State of Texas, hereby certify that the drawings were prepared under my supervision to meet or exceed the specifications and requirements of Fort Bend County, Texas.

Troy W. McQueeny, P.E.
 Troy W. McQueeny, P.E.
 Date: 2-13-2015



FEBRUARY 2015
 JC JOB No. 05535-0188-00

JC JONES & CARTER, INC.
 ENGINEERS - PLANNERS - SURVEYORS
 Texas Board of Professional Engineering Registration No. F-439
 6335 Gullion Dr., Suite 100 Houston, Texas 77081 (713) 777-5337



VICINITY MAP
 Scale: 1" = 1 Mile
 FORT BEND COUNTY RET. MAP: 483H
 1250 1/2 Posey Ridge Lane A. Katy, Texas 77494

FORT BEND COUNTY ENGINEER

ENGINEER: *Troy W. McQueeny*

DATE: 4/15/15

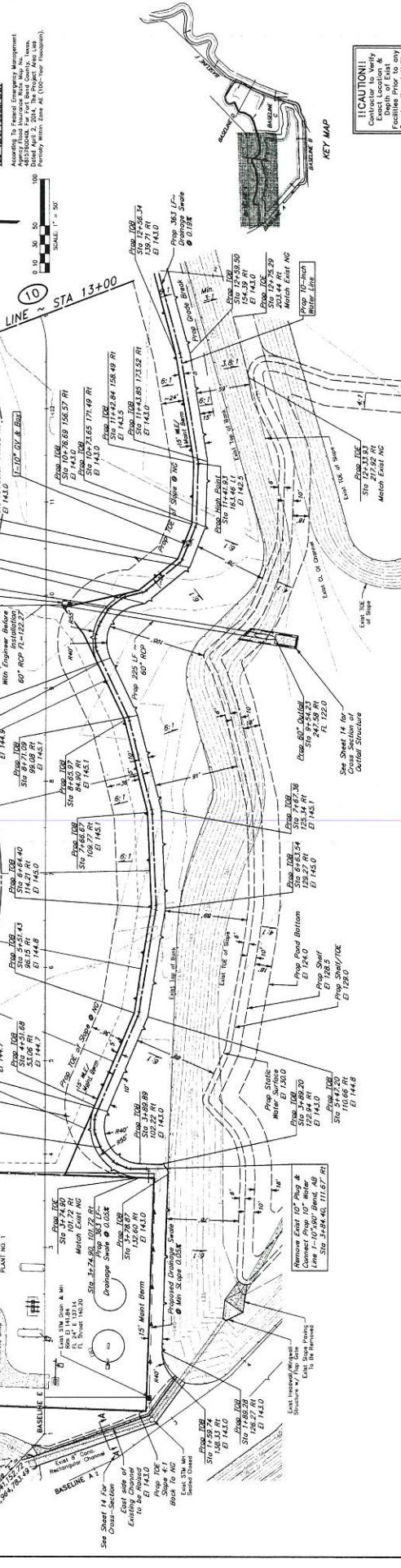
THESE SIGNATURES ARE VOID IF CONSTRUCTION BEGINS BEFORE THE DATE OF APPROVAL.

APPROVED: *Troy W. McQueeny*
 DEVELOPMENT COORDINATOR

DATE: 4/15/15

BENCH MARK
 Station 10+00.00
 Elevation = 153.85'
 (NAVD 88, Adjustment)

100-YEAR FLOODPLAIN
 According to Federal Emergency Management Agency (FEMA) Flood Insurance Study (FIS) 17080-01-0001, dated 10/10/83, Primary Flood Zone #2 (100-Year Floodplain).



CAUTION!
 CONTRACTOR TO VERIFY EXACT LOCATION & FACILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.

CAUTION!
 48 HOURS PRIOR TO CONSTRUCTION

APPROVED: _____
 DATE: _____
 DEVELOPMENT COORDINATOR

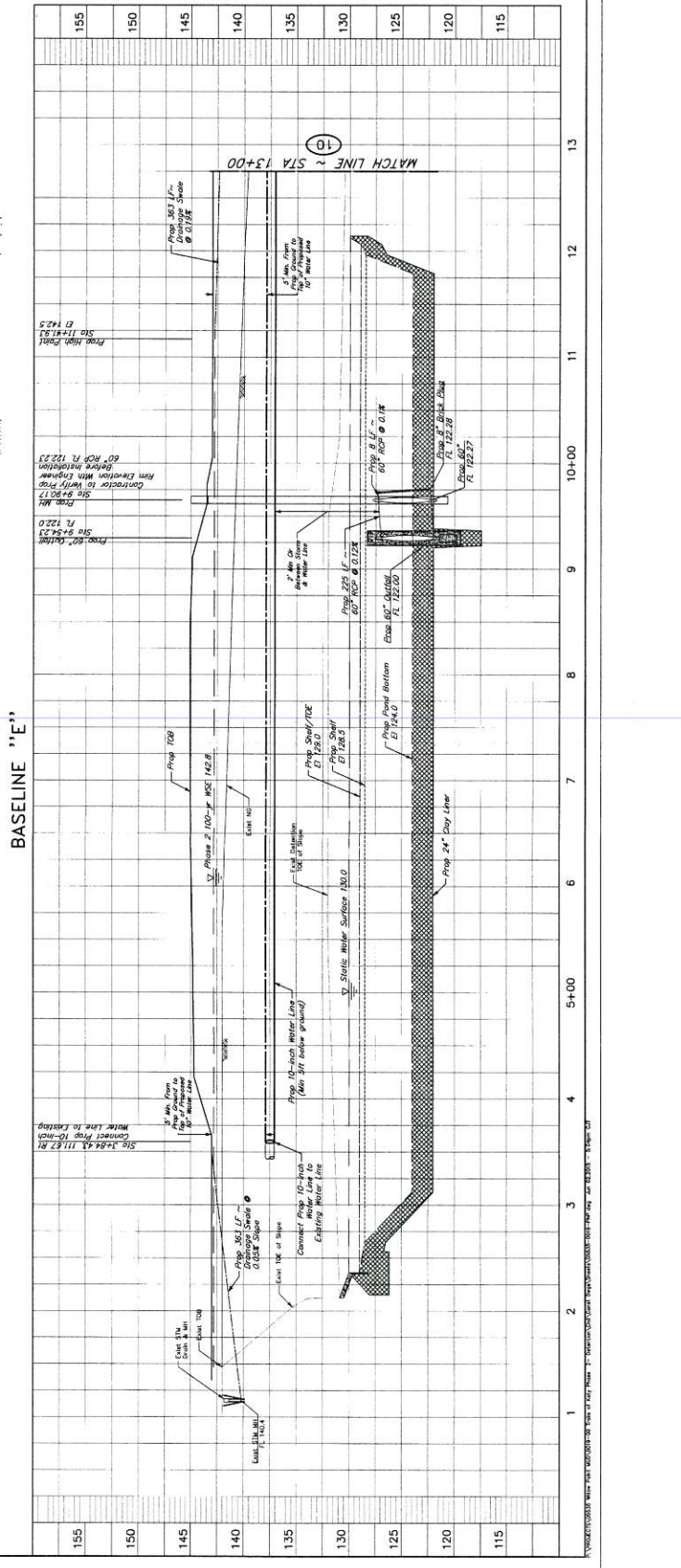
WILLOW POINT MUNICIPAL
 WASTEWATER TREATMENT PLANT
 FT. BEND COUNTY TEXAS

TRAILS OF KATY DETENTION PHASE 2
 STA 1+00.00 TO 13+00.00

J.C. JONES & CARTER, INC.
 1400 W. WILLOW POINT ROAD
 FT. BEND COUNTY TEXAS 78743
 PHONE: (512) 335-1100 FAX: (512) 335-1101
 DATE: 11-15-05 BY: J.C.J. CHKD BY: J.C.J.
 JOB NO.: 050501-001-001 SHEET NO.: 9
 PROJECT: TRAILS OF KATY WASTEWATER TREATMENT PLANT PHASE 2
 F.B. NO.: _____



SHEET NO. 9 OF 15



MISCELLANEOUS SYMBOLS:

<p>PLUG VALVE (NORMALLY OPEN)</p> <p>PLUG VALVE (NORMALLY CLOSED)</p> <p>BALL VALVE (NORMALLY OPEN)</p> <p>BALL VALVE (NORMALLY CLOSED)</p> <p>BUTTERFLY VALVE</p> <p>CHECK VALVE</p> <p>GATE CHECK VALVE</p> <p>SILENT CHECK VALVE</p> <p>SWING CHECK VALVE</p> <p>BALL CHECK VALVE</p> <p>GATE VALVE (NORMALLY OPEN)</p> <p>GATE VALVE (NORMALLY CLOSED)</p> <p>GLOBE VALVE (NORMALLY OPEN)</p> <p>GLOBE VALVE (NORMALLY CLOSED)</p> <p>SAMPLE COCK</p> <p>NEEDLE VALVE (NORMALLY OPEN)</p> <p>NEEDLE VALVE (NORMALLY CLOSED)</p> <p>ANGLE VALVE (NORMALLY OPEN)</p> <p>ANGLE VALVE (NORMALLY CLOSED)</p> <p>THREE-WAY VALVE (ONE PORT CLOSED)</p> <p>FOUR-WAY VALVE (NORMALLY OPEN)</p> <p>FOUR-WAY VALVE (NORMALLY CLOSED)</p> <p>AIR RELEASE VALVE</p> <p>SLUDGE AIR RELEASE VALVE</p> <p>PRESSURE RELIEF VALVE</p> <p>ANGLE PRESSURE RELIEF VALVE</p> <p>SOLENOID VALVE</p> <p>BACKPRESSURE REGULATOR SELF-CONTAINED</p> <p>PRESSURE REGULATOR SELF-CONTAINED</p> <p>BACKPRESSURE REGULATOR W/EXTERNAL PRESSURE TAP</p> <p>PRESSURE REDUCING REGULATOR W/INTERNAL PRESSURE RELIEF VALVE</p> <p>FLOW CONTROL VALVE</p> <p>PRESSURE REDUCING VALVE</p> <p>PRESSURE SUSTAINING VALVE</p> <p>VACUUM REGULATOR</p> <p>PUMP CONTROL/BACKPRESSURE VALVE</p>	<p>480 VAC ELECTRICAL SUPPLY</p> <p>240 VAC ELECTRICAL SUPPLY</p> <p>120 VAC ELECTRICAL SUPPLY</p> <p>CURRENT TRANSFORMER</p> <p>ELECTRICAL OUTLET</p> <p>ELECTRICAL PLUG</p> <p>ULTRASONIC LEVEL TRANSDUCER</p> <p>SUBMERSIBLE TRANSDUCER</p> <p>FLOAT SWITCH</p> <p>PLUG ADJUSTED WICKET</p> <p>FLANGED CONNECTION</p> <p>SLUDGE GATE (NORMALLY OPEN)</p> <p>SLUDGE GATE (NORMALLY CLOSED)</p> <p>PIVOT GATE (NORMALLY OPEN)</p> <p>PIVOT GATE (NORMALLY CLOSED)</p> <p>PULL GATE (NORMALLY OPEN)</p> <p>PULL GATE (NORMALLY CLOSED)</p> <p>OVERFLOW BAFFLE</p> <p>UNDERFLOW BAFFLE</p> <p>V-NOTCH WEIR</p>	<p>PROPELLER TYPE FLOW METER</p> <p>MAGNETIC TYPE FLOW METER</p> <p>TURBINE FLOW METER</p> <p>DRAIN</p> <p>DRAIN INLET (SCREENED)</p> <p>DRAIN INLET (OPEN)</p> <p>TUBING ADAPTER</p> <p>FLEXIBLE CONNECTION</p> <p>EXPANSION COUPLING</p> <p>QUICK CONNECT</p> <p>THREADED CAP</p> <p>BLIND FLANGE</p> <p>UNION</p> <p>SLUDGE DRAIN-OFF</p> <p>AIR LIFT PUMP</p> <p>MALE GAN & GROOVE QUICK COUPLING</p> <p>DIAPHRAGM SEAL</p> <p>ANNULAR DIAPHRAGM</p> <p>AIR INTAKE FILTER</p> <p>PULSATION DAMPENER</p> <p>SINGLE DROP COARSE AIR DIFFUSER (PROFILE)</p> <p>SINGLE DROP COARSE AIR DIFFUSER (PLAN)</p> <p>SUBMERSIBLE FINE AIR DIFFUSERS</p> <p>SUBMERGED COARSE FINE SAND AIR DIFFUSERS (PUSH)</p> <p>EMERGENCY EYE WASH & SHOWER</p> <p>BASKET STRAINER</p> <p>DUPLEX BASKET STRAINER</p> <p>RUPTURE DISK (PRESSURE RELIEF)</p> <p>RUPTURE DISK (VACUUM RELIEF)</p>	<p>DISCHARGE AIR FILTER</p> <p>DISCHARGE SILENCER</p> <p>HEAT TRACING</p> <p>CALIBRATION TUBE/COLUMN</p> <p>VAPORIZER</p> <p>ANALYZER</p> <p>INJECTOR</p> <p>EJECTOR</p> <p>HEAT EXCHANGER</p> <p>TRAP</p> <p>FLOW STRAIGHTENER</p> <p>PULSATION DAMPENER</p> <p>WYE STRAINER</p> <p>MIXER</p> <p>STATIC MIXER</p> <p>MUD VALVE</p> <p>TELESCOPIC VALVE</p> <p>PLATE & FRAME HEAT EXCHANGER</p> <p>DEGASSING VALVE</p> <p>BULK STORAGE TANK</p> <p>DOUBLE WALLED BULK STORAGE TANK</p>	<p>MOTOR</p> <p>ROTARY LOBE/SCREEN POSITIVE DISPLACEMENT BLOWER</p> <p>PERISTALTIC PUMP</p> <p>MOTOR</p> <p>SUBMERSIBLE PUMP</p> <p>VERTICAL TURBINE BOOSTER PUMP</p> <p>CENTRIFUGAL PUMP (WET PIT)</p> <p>CENTRIFUGAL PUMP (DRY PIT)</p> <p>GENERAL FAN</p> <p>CENTRIFUGAL COMPRESSOR OR BLOWER</p> <p>RECIPROCATING COMPRESSOR (POSITIVE DISPLACEMENT)</p> <p>ROTARY COMPRESSOR (POSITIVE DISPLACEMENT)</p> <p>POSITIVE DISPLACEMENT BLOWER</p> <p>ROTARY LOBE PUMP</p> <p>DIAL PISTON PUMP</p> <p>SCREEN PUMP</p> <p>HOSE PUMP</p> <p>POSITIVE DISPLACEMENT PUMP</p> <p>SOLENOID METERING PUMP</p> <p>METERING PUMP</p> <p>PROGRESSIVE CAVITY PUMP</p> <p>GRINDER PUMP</p>	<p>CORPORATION STOP</p> <p>SAFETY OFFER</p> <p>SUCKER OF PRESENTER</p> <p>FOOT VALVE</p> <p>WINCH</p> <p>LOCAL DISCONNECT</p> <p>WELL SCREEN STRAINER</p> <p>PERFORATED PLATE</p>
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NOTES:
For Electrical and Instrumentation Only



Nathan E. Laker
2/15/15

APPROVED: *[Signature]*
DATE: 2/15/15

NO.	DATE	REVISIONS	APP.

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS
WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
P&ID LEGEND
SHEET 2 OF 2

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
13000 Katy Road, Suite 100, Houston, Texas 77057 (713) 771-5200
SCALE: NO. SCALE
DATE: FEBRUARY 2015
SUBMITTED: _____
DWN. BY: LCF
DWG. NO.: 05532-0081-00
SURV. BY: _____
F.I.L. NO.: _____



APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 4/1/15

NO.	DATE	REVISIONS	APP.

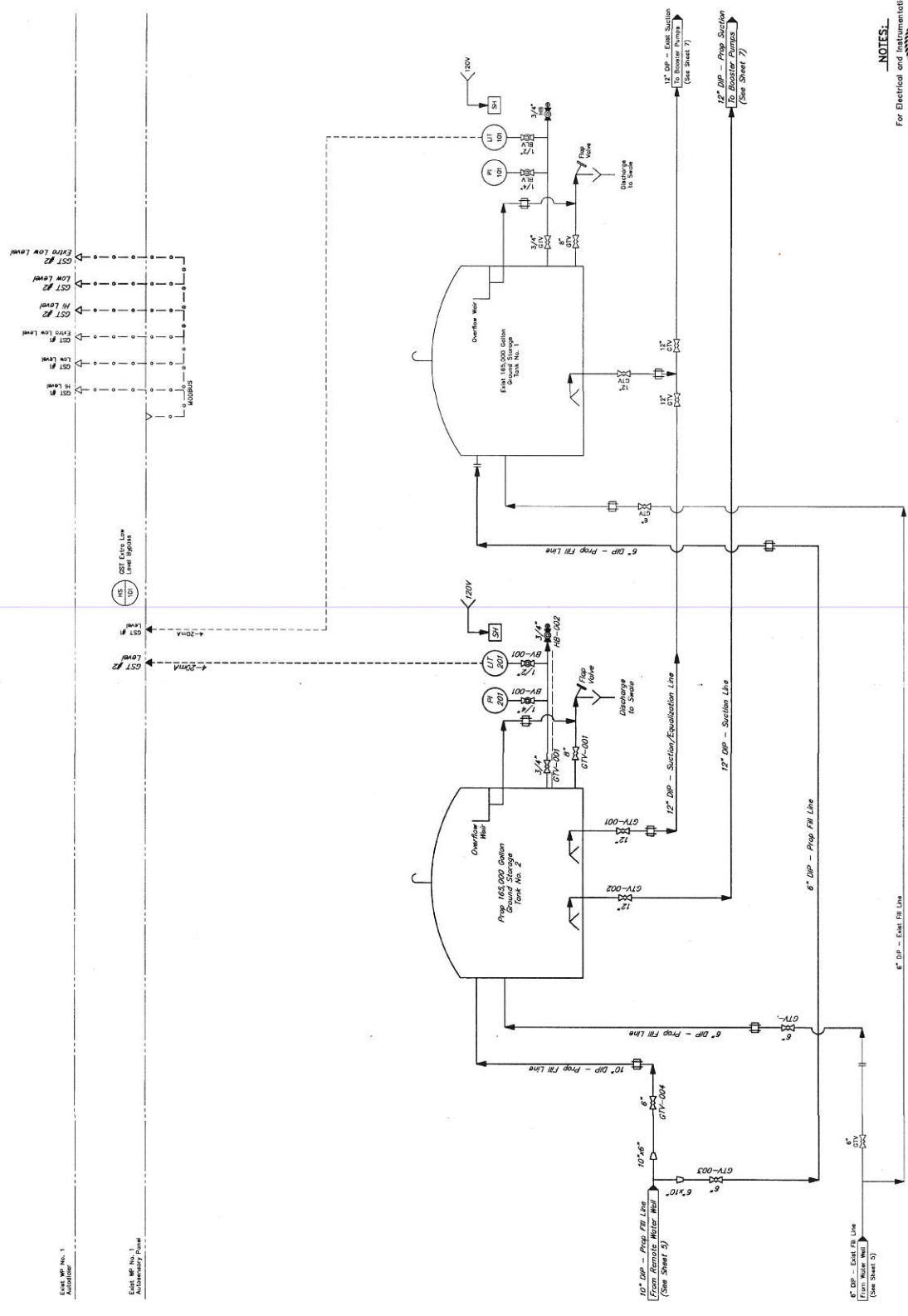
WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS
WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
GROUND STORAGE
TANKS P&ID

J. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
2505 Highway 63, Suite 100, Houston, Texas 77058 (713) 772-6237

SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO. 2015-02-002-01
SUBMITTED: 2/13/15
DWN. BY: [Signature]
DWC. NO. [Signature]
SHEW. BY: [Signature]
F.E. NO. [Signature]

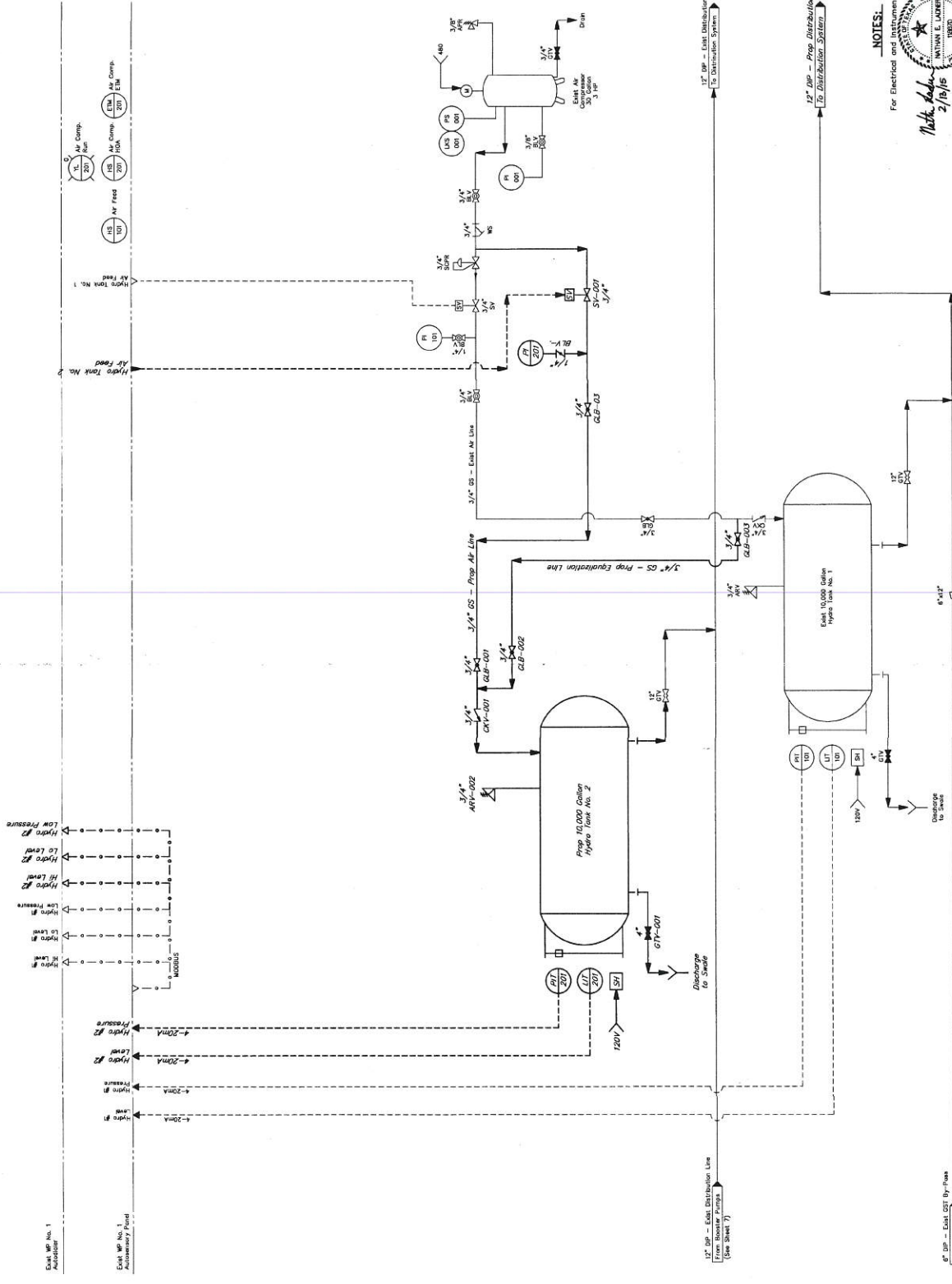


NOTES:
For Electrical and Instrumentation Only



Each WP No. 1
Automatic

Each WP No. 1
Automatic Panel



APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR
 DATE: 4/15/15

NO.	DATE	REVISIONS

WILLOW POINT M.I.D.
 FORT BEND COUNTY, TEXAS
 WATER PLANT No. 1 - PHASE III
 & REMOTE WATER WELL
 HYDRO TANKS
 P&ID

J.C. JONES & CARTER, Inc.
 1000 West 10th Street, Suite 100, Houston, Texas 77001
 TEL: 713/777-6300
 FAX: 713/777-6301
 E-MAIL: JONES@JONES-CARTER.COM
 WWW: WWW.JONES-CARTER.COM

SCALE: AS SHOWN
 DATE: FEBRUARY 2015
 JOB NO.: 05033-018E-01
 DRAWING NO.:
 SHEET NO.: 8
 OF 30

NOTES:
 For Electrical and Instrumentation Only

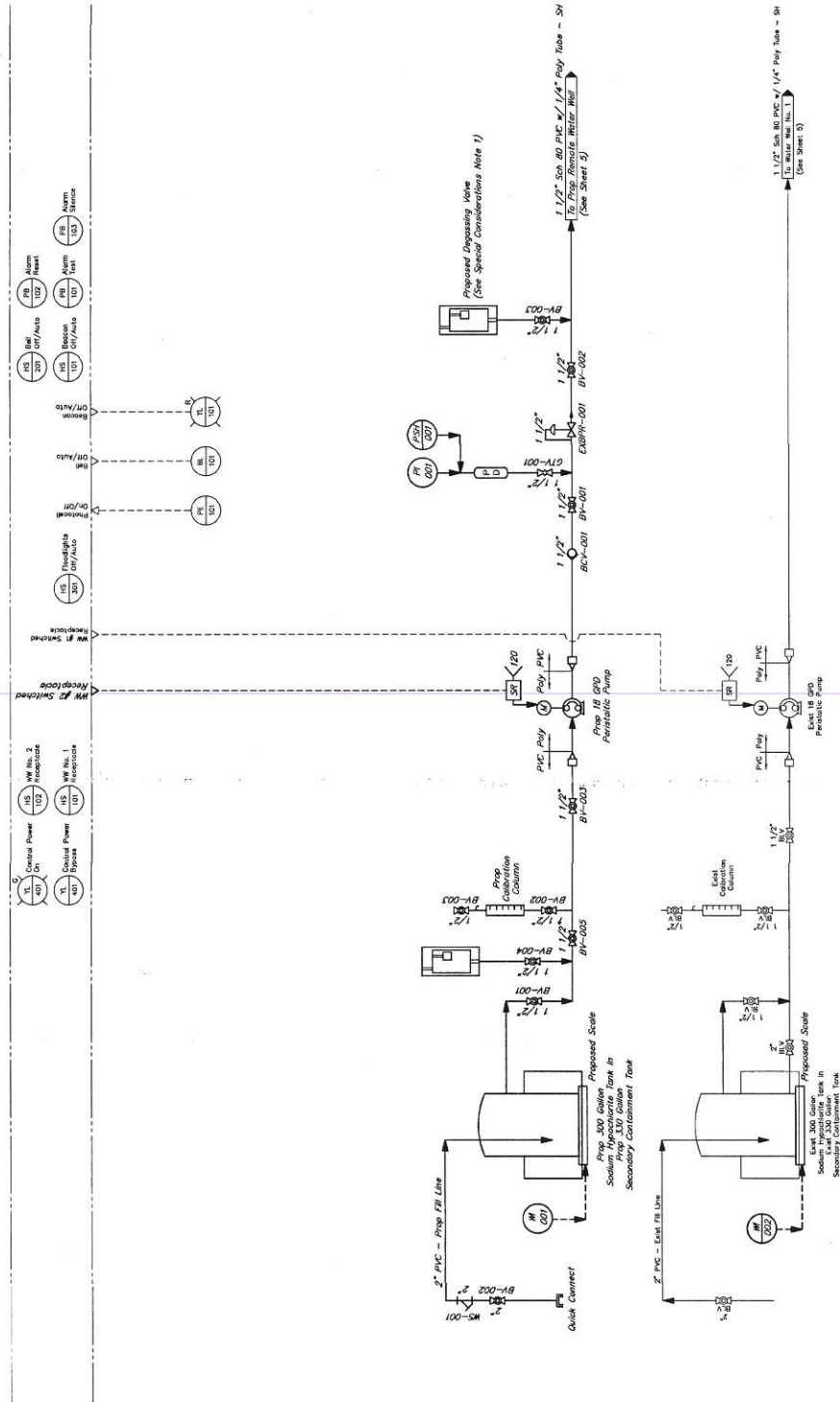
[Signature]
 2/15/15

WILLOW POINT M.I.D.
 FORT BEND COUNTY, TEXAS

NOTES:
1. Install Disinfecting Valves at highest point in piping.

Cell No. 1
Avalanche

Cell No. 1
Avalanche



APPROVED: *[Signature]*
DATE: 4/18/15

NO.	DATE	REVISIONS	APP.

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL

SODIUM HYPOCHLORITE
DISINFECTION

P&ID

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
2205 GARDNER ST., SUITE 100 HOUSTON, TEXAS 77058 (713) 777-5259

SCALE: 1/8" = 1'-0" DWN. BY: LOM
DATE: FEBRUARY, 2012 DWN. BY:
JOB NO. 055535-018E-00 DWG. NO.
SUBMITTED: SURV. BY:
F.A. NO.

TESTED BY: M. HARRIS
DATE: 2/18/15

SEAL NO. 13205
SEAL NO. 9
OF 20

NOTES:
For Electrical and Instrumentation Only



BASELINE STATION/OFFSETS:

NUMBER	STATION (T)	OFFSET (T)	STATION (T)
1	1+23.75	Lt. 148.86	
2	1+61.44	Lt. 5.94	
3	1+54.37	Lt. 134.32	
4	0+48.50	Lt. 194.00	
5	0+15.77	Lt. 40.81	
6	0+33.79	Lt. 3.80	
7	1+58.26	Lt. 93.11	
8	1+58.26	Lt. 88.41	
9	1+55.08	Lt. 82.41	
10	1+55.08	Lt. 42.29	

100-YR FLOOD PLAIN

THIS MAP LIES WITHIN ZONE A OF THE FLOOD PLAIN. THE FLOOD PLAIN IS SHOWN BY THE DASHED LINE. THE FLOOD PLAIN IS THE 100-YEAR FLOOD BASE FLOOD ELEVATION DETERMINED.

BENCH MARKS

6" NIS Gate Valve, NJ w/ Valve Box
 10" Pkg & Comp. M.
 10" PAC/Dr Adapter Coupling, PO
 10" 45° Bend, PO
 10" Resilient Scent Gate Valve, PO
 12" 45° Bend, PO
 12" 90° Bend, Long Radius, PO

ABBREVIATIONS

AC ACRES
 CL No CLERK'S FILE NUMBER
 CONC CONCRETE
 DUP ELECTRICAL DUCT BANK MARKER
 DWM ELECTRICAL DUCT BANK MARKER
 FBCGR FORT BEND COUNTY DEED RECORDS
 FBCGR RECORDS OF REAL PROPERTY
 FBCGR FORT BEND COUNTY PLAT RECORDS
 FC No FORT BEND COUNTY PLAT RECORDS
 GSP GAS METER PER MINUTE
 GST GROUND STORAGE TANK
 GR GUARD POST
 GR GROUND ROD WELL
 LF LINEAR FEET
 LP LIGHT POLE
 METER JOINT
 METER POLE
 NGCO NUMBER
 BLEACH INJECTION LINE
 OHP OVERHEAD POWER
 PB ELECTRICAL PULL BOX
 PO POSE ON JOINT
 PO POSE ON JOINT
 SP SLOPE
 SQ FT SQUARE FEET
 UGE UNDERGROUND ELECTRIC
 UE UTILITY EASEMENT

PIPING CHART

6" 90° Bend, PO
 6" NIS Gate Valve, NJ w/ Valve Box
 10" Pkg & Comp. M.
 10" PAC/Dr Adapter Coupling, PO
 10" 45° Bend, PO
 10" Resilient Scent Gate Valve, PO
 12" 45° Bend, PO
 12" 90° Bend, Long Radius, PO

PIPING NOTES

- All pipe to be ductile iron pipe (DIP)
- Use appropriate material of construction, push-on connection.
- Unless otherwise noted on the construction drawings, all pipe centered in wells shall be cast-in-place with structural concrete or grouted in block-outs with non-shrink grout.

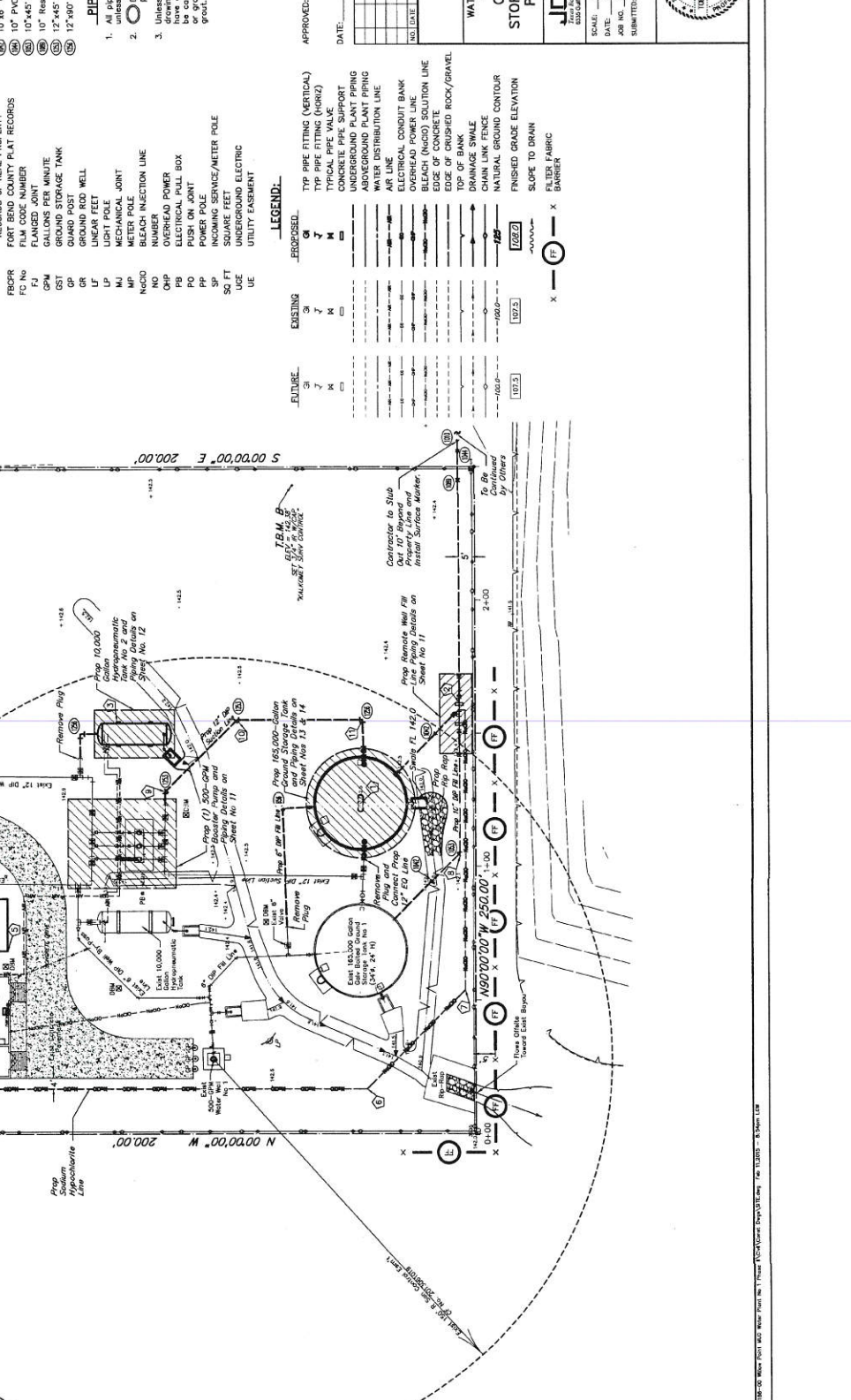
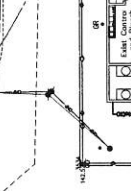
LEGEND

EXISTING	PROPOSED	DESCRIPTION
1	1	TYPE PIPE FITTING (VERTICAL)
2	2	TYPE PIPE FITTING (HORIZONTAL)
3	3	CONCRETE PIPE SUPPORT
4	4	UNDERGROUND PLANT PIPING
5	5	UNDERGROUND PLANT PIPING
6	6	WATER DISTRIBUTION LINE
7	7	AIR LINE
8	8	OVERHEAD POWER BANK
9	9	BLEACH (NGCO) SOLUTION LINE
10	10	EDGE OF CONCRETE
11	11	EDGE OF CONCRETE
12	12	TOP OF BANK
13	13	CHANGING SLOPE
14	14	FINISHED GRADE ELEVATION
15	15	NATURAL GROUND CONTOUR
16	16	FINISHED GRADE ELEVATION
17	17	SLOPE TO DRAIN
18	18	FILTER FABRIC
19	19	BARRIER

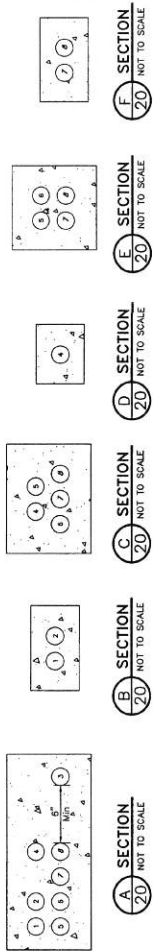
APPROVED: *[Signature]*
 DATE: 4/11/15
 PROJECT COORDINATOR

WILLOW POINT M.U.D.
 FORT BEND COUNTY, TEXAS
WATER PLANT No. 1 - PHASE II
OVERALL SITE AND
STORM WATER POLLUTION
PREVENTION PLANS

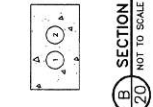
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 DWN BY: [Signature]
 F.B. NO. [Signature]



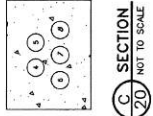
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 Prop Remove Mill #100



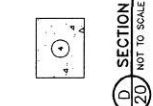
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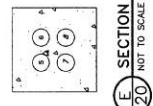
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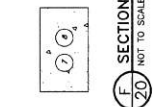
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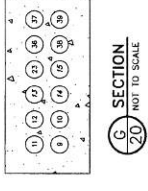
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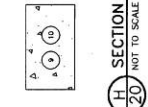
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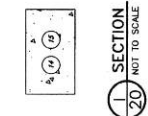
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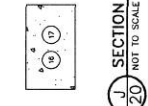
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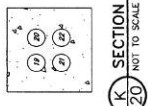
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I SECTION
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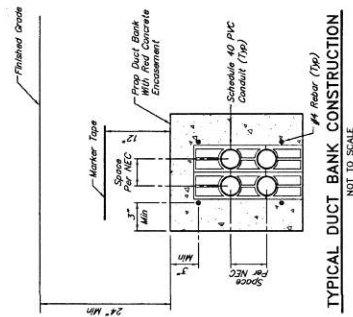


J SECTION
20 NOT TO SCALE



K SECTION
20 NOT TO SCALE

NO.	SIZE & CONDUITS	DESCRIPTION	ORIGIN	DESTINATION
1	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 JUNCTION BOX
2	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
3	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
4	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
5	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
6	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
7	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
8	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
9	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
10	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
11	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
12	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
13	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
14	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
15	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
16	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
17	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
18	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
19	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
20	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
21	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
22	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
23	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
24	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
25	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
26	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
27	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
28	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
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30	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
31	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
32	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
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35	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
36	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
37	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
38	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
39	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
40	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
41	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
42	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
43	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER
44	EXIST 1 1/2" C. #2-#18 SHELDED PAIR	MISC. POWER AND CONTROLS	MOTOR CONTROL CENTER	WATER WELL NO. 1 FLOWMETER



TYPICAL DUCT BANK CONSTRUCTION
NOT TO SCALE

APPROVED: *[Signature]*
REGULATORY COORDINATOR

DATE: 4/10/15

NO.	DATE	REVISIONS	APP.

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS
WATER PLANT NO. 1 - PHASE II
& REMOTE WATER WELL
ELECTRICAL DUCT BANK AND
CONDUIT SCHEDULE

J.C. JONES & CASTER
ENGINEERS-PLANNERS-ARCHITECTS
5225 South Loop West, Suite 100, Houston, Texas 77056
(713) 771-2227

SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO.: 03232-10382-00
SUBMITTED: 2/11/15

DRN. BY: DMC
DWG. NO.:
DWG. DATE: FEBRUARY 2015
DWG. BY: JAO
SUBMITTED: 2/11/15



SHEET NO. 20
OF 30

NOTES:

- Items to be added or deleted, or other items or existing.
- Contractor shall replace the existing air feed HOA switch in accordance to provide Solenoid Valve Earth Leakage Protection. The Solenoid Valve Earth Leakage Protection shall be installed independently of each other through the PLC in AUTO.

APPROVED: *[Signature]*
 DEVELOPMENT COORDINATOR

DATE: 4/1/15

NO.	DATE	REVISIONS	APP.

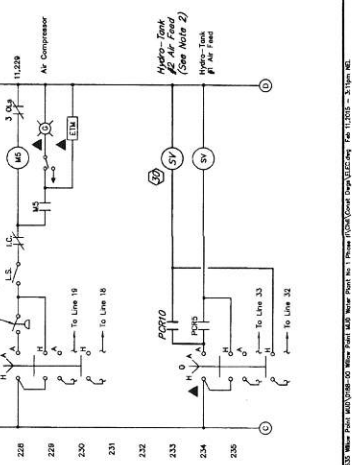
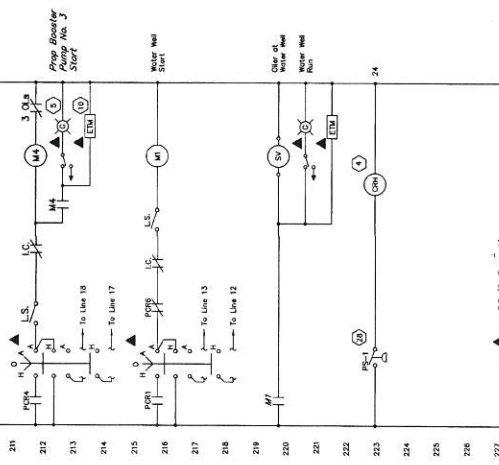
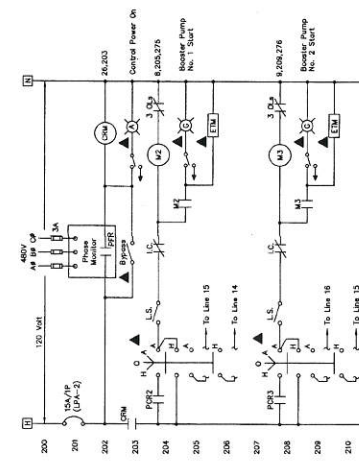
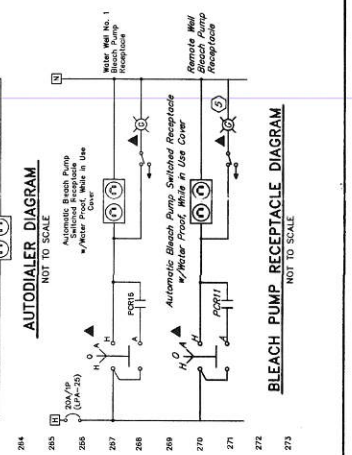
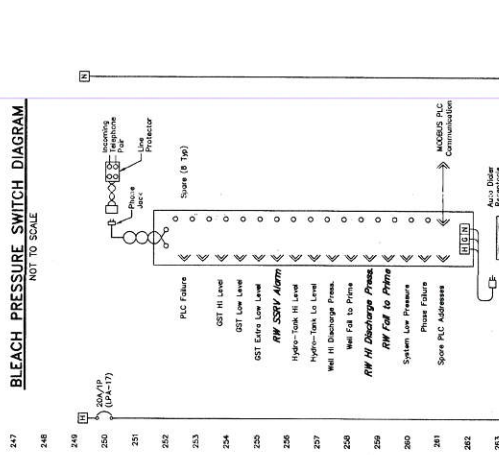
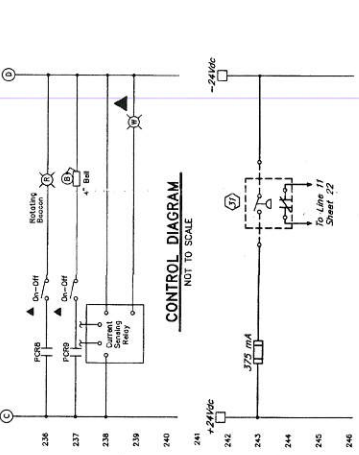
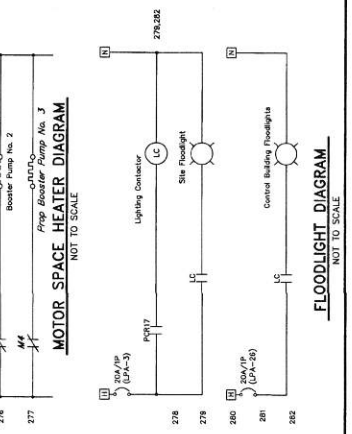
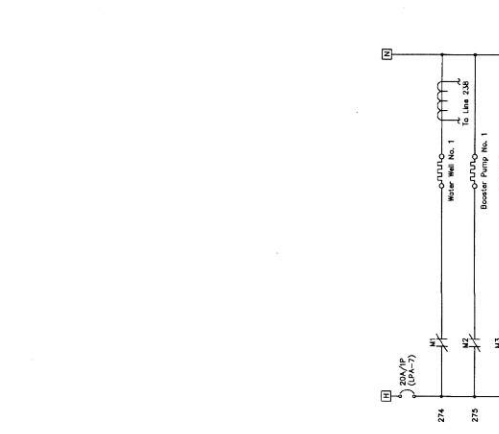
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 FORT BEND COUNTY, TEXAS

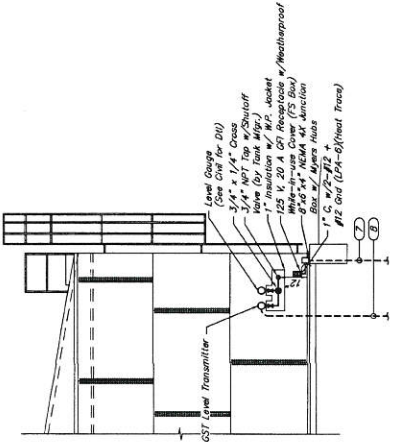
WATER PLANT No. 1 - PHASE II
 & REMOTE WATER WELL
 ELECTRICAL CONTROL
 DIAGRAM SHEET 2 OF 2

J. JONES & CARTER
 ENGINEERS-PLANNERS-ARCHITECTS
 2000 West Loop South, Suite 1000, Houston, Texas 77027
 TEL: 281.486.1000 FAX: 281.486.1001
 DATE: 03/20/15 DRAWN BY: JST
 JOB NO. 150305-000-0000 SHEET NO. 23
 SUBMITTED: E.B. BY:

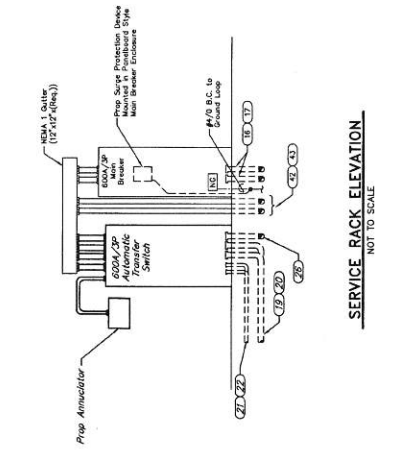


SHEET NO. 23
 OF 30



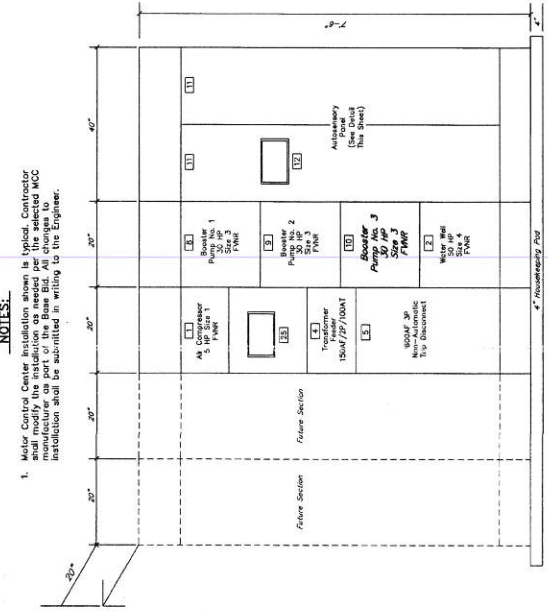


NO.	DESCRIPTION	NO.	DESCRIPTION
1	AIR COMPRESSOR	19	HYDRO-TANK AIR FEED
2	WATER WELL BLEACH RECEPTACLE	20	NOT USED
3	REMOTE WELL BLEACH RECEPTACLE	21	NOT USED
4	TRANSFORMER FEEDER	22	CST EXTRA LOW LEVEL BYPASS
5	MCC DISCONNECT	23	NOT USED
6	WELL MOTOR SPACE HEATER ON	24	NOT USED
7	NOT USED	25	SYSTEM MONITOR
8	BOOSTER PUMP NO. 1	26	BEACON ON-OFF
9	BOOSTER PUMP NO. 2	27	BELL ON-OFF
10	BOOSTER PUMP NO. 3	28	NOT USED
11	AUTOSENSORY PA-EL	29	NOT USED
12	HMI	30	NOT USED
13	CONTROL POWER BYPASS	31	NOT USED
14	CONTROL POWER ON	32	NOT USED
15	NOT USED	33	BLEACH PUMP RECEPTACLE
16	WATER WELL	34	ALARM RESET
17	FLOODLIGHTS	35	ALARM SILENCE
18	AIR COMPRESSOR	36	ALARM TEST

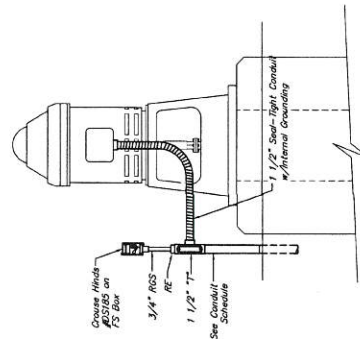


G.S.T. DETAIL
NOT TO SCALE

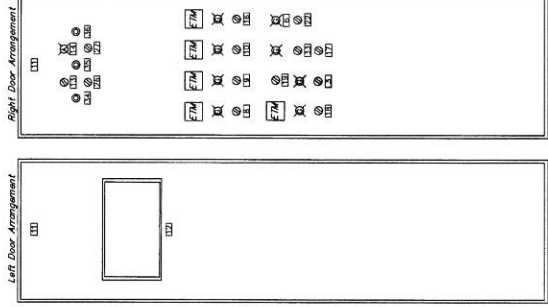
NOTES:
1. Motor Control Center installation shown is typical. Contractor shall modify the installation as needed per the selected MCC manufacturer as part of the Base Bid. All changes to installation shall be submitted in writing to the Engineer.



BOOSTER PUMP DETAIL
NOT TO SCALE



MODIFICATIONS TO EXISTING MOTOR CONTROL CENTER
NOT TO SCALE



AUTOSENSORY DOOR LAYOUT
NOT TO SCALE

APPROVED: *[Signature]* PROJECT COORDINATOR
DATE: 4/6/15

WILLOW POINT M.U.D.,
FORT BEND COUNTY, TEXAS

WATER PLANT NO. 1 - PHASE II
& REMOTE WATER WELL
ELECTRICAL DETAILS
SHEET 1 OF 3

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
2025 Lakewood Dr., Suite 100, Houston, Texas 77058 (713) 777-2337

SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO. 05535-0386-00
SUBMITTED: *[Signature]* 2/1/15

DRAWN BY: MEL
CHKD BY: DEE
DATE: FEBRUARY 2015
JOB NO. 05535-0386-00
SUBMITTED: *[Signature]* 2/1/15

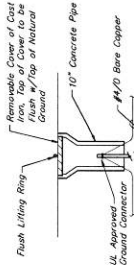
F.B. NO. _____
SHEET NO. **24**
OF 30

NOTES:

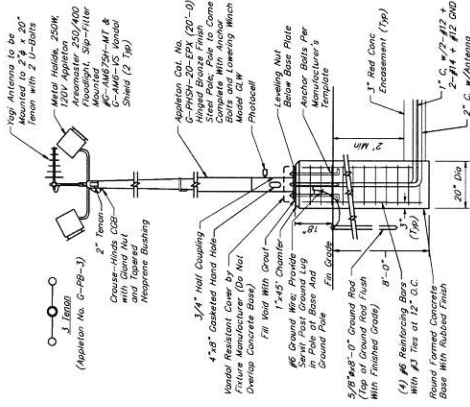
- All construction shall comply with local and national codes and requirements.
- All aspects of this installation must comply with the latest utility company standards. Review this project's service requirements of location, ratings, and methods with power company prior to beginning construction. Coordinate with the utility company for the location of the underground service laterals and single phase transformer.
- Conduits shall not be routed across walkways, paths of access, travel, or egress. Route beneath gratings, in concrete structures, or around equipment. Do not route in conflict with other piping, conduits, equipment, or structures.
- Contractor shall be responsible for obtaining any and all permits associated with this work. The costs of the permits, if any, shall be borne by the Contractor.
- All above ground conduit and vertical riser conduits from back bank shall be provided all conduit entering MCC & other enclosure from bottom with grounding busing & bond wire per N.E.C. Do not chase lug.
- See specifications for wire types.
- Mount radio transmitter antenna at the top of proposed floodlight pole as shown. Height and direction of antenna to be adjusted as needed per radio manufacturer's instructions. Provide a constant communication link with Water Plant No. 1.

LEGEND:

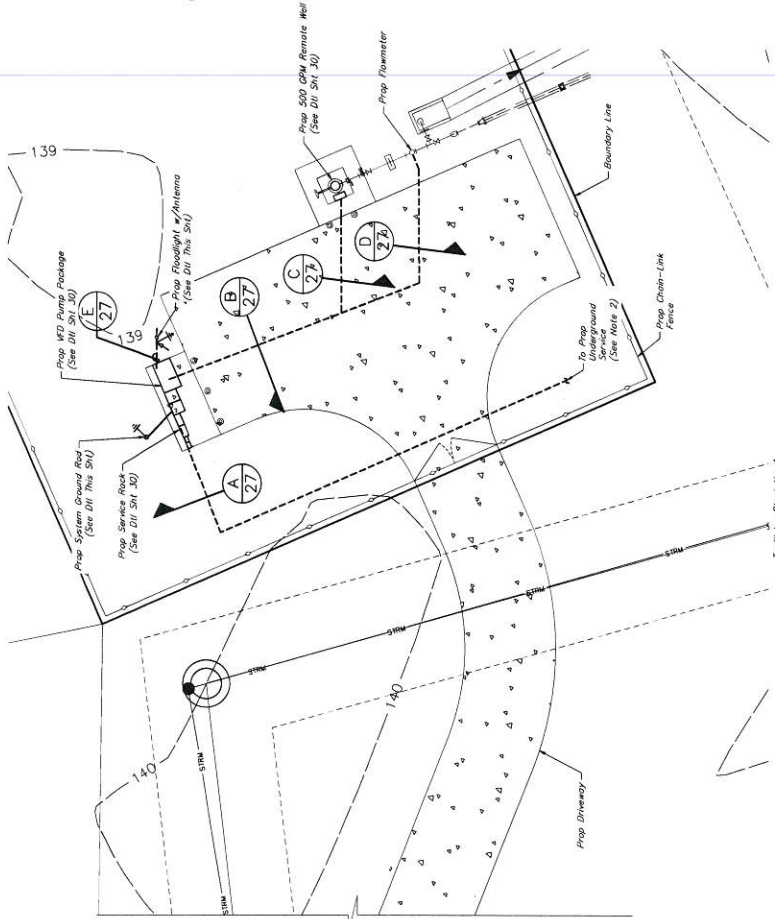
- PROPOSED
- GROUND CONDUCTOR
- ELECTRICAL DUCT BANK
- GROUND WELL (SEE DTL THIS SHT)
- SERVICE STRUCTURE (SEE DTL SHI 30)
- FLOODLIGHT (SEE DTL THIS SHT)
- RADIO ANTENNA
- BOLLARD (SEE CIVIL SHI FOR DTL)



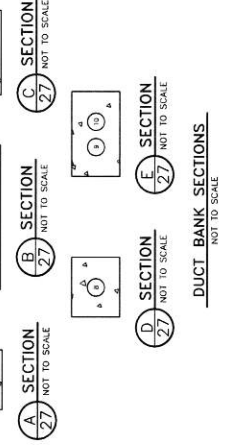
GROUND WELL DETAIL
NOT TO SCALE



FLOODLIGHT POLE DETAIL
NOT TO SCALE



NO.	SIZE & CONDUCTORS	DESCRIPTION
1	4\"/>	



APPROVED: *[Signature]* DEVELOPMENT COORDINATOR

DATE: 4/18/15

WELLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL

REMOTE WATER WELL
ELECTRICAL SITE LAYOUT

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
4303 BUCKLEBOURNE DRIVE, SUITE 100
HOUSTON, TEXAS 77057-1530

SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO.: 05333-0188-02
SUBMITTED: 5/11/14
DRAWN BY: JED
CHECKED BY: JED
F.B. NO.:

WATER PLANT No. 1 - PHASE II
ELECTRICAL SITE LAYOUT

WATER PLANT No. 1 - PHASE II
ELECTRICAL SITE LAYOUT

WATER PLANT No. 1 - PHASE II
ELECTRICAL SITE LAYOUT

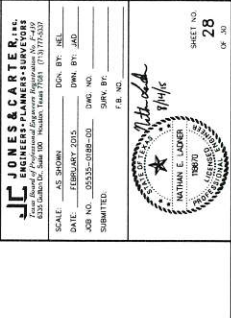
- NOTES:**
- See specifications for wire types.
 - Provide 400A main breaker with solid state trip (LS), 42 N.A.C. (50% rated, suitable for service disconnect).
 - Provide single phase NEMA 3R Passive Harmonic Filter with 400Amp 480V capacitor (10 legs NEMA 3R 400V or approved eqpt).
 - Provide a NEMA 3R 500V VFD package rated for 50 HP single-phase input and three-phase output. (Eaton Model SXD75A1-4AN1 w/ Cap kit Model SP45-KT or approved eqpt). Package shall be UL listed.
 - Contractor shall provide Harmonic Study to verify filter Harmonic Study. Study shall be completed by drive manufacturer or their representative.

APPROVED: *[Signature]*
 DATE: 4/15/15
 DEVELOPMENT COORDINATOR

NO.	DATE	REVISIONS
1		
2		

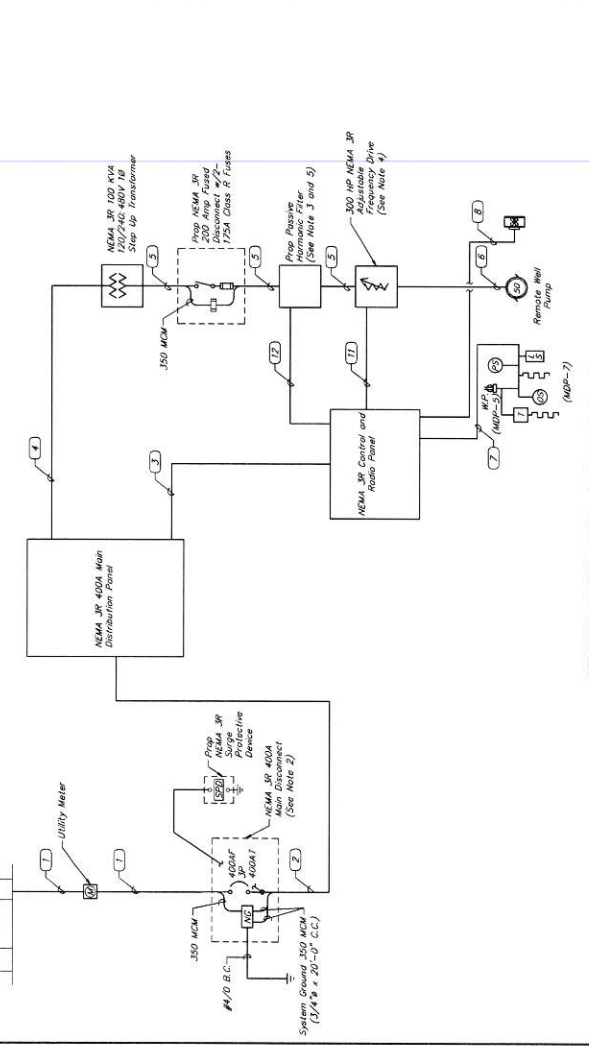
WELLOW POINT M.U.D.
 FORT BEND COUNTY, TEXAS
 WATER PLANT No. 1 - PHASE II
 & REMOTE WATER WELL
 REMOTE WATER WELL
 ONE-LINE DIAGRAM

J.C. JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 4035 S. Highway 100, Houston, Texas 77057 (713) 774-3330
 SCALE: AS SHOWN
 DATE: FEBRUARY 2015
 JOB NO.: 09333-02B1-03
 SUBMITTED: _____
 DRAWN BY: JAG
 CHECKED BY: _____
 PROJECT NO.: _____



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	MOLDED CASE CIRCUIT BREAKER	[Symbol]	SYSTEM GROUND
[Symbol]	COMBINATION "MCP" MOTOR STARTER	[Symbol]	SERVICE HEAD
[Symbol]	PHOTO-ELECTRIC SWITCH	[Symbol]	MICRO-SWITCH - STARTER DISCONNECT WHEN MOTOR IS DE-ENERGIZED
[Symbol]	OFF-AUTO SWITCH	[Symbol]	ITEM LOCATED ON FACE OF AUTO OILER SOLENOID
[Symbol]	PHASE FAILURE RELAY	[Symbol]	TRANSFORMER
[Symbol]	ELAPSED TIME METER	[Symbol]	TIME CLOCK
[Symbol]	LOCK-STOP STATION (MAINTAINED CONTACT AS NOTED) (V.F.S.) (COLOR AS NOTED) (V.F.S.)	[Symbol]	FUSE
[Symbol]	SPACE HEATER	[Symbol]	JUNCTION BOX
[Symbol]	3 PHASE MOTOR (HORSEPOWER NOTED) NEUTRAL/GROUND PAD	[Symbol]	CURRENT TRANSFORMER
[Symbol]	SPECIAL DEVICE	[Symbol]	SYSTEM MONITOR
[Symbol]	GROUND BUS	[Symbol]	CAPACITOR
[Symbol]	SURGE PROTECTION DEVICE	[Symbol]	VOLTAGE TRANSDUCER
[Symbol]		[Symbol]	TIME CLOCK
[Symbol]		[Symbol]	THERMOSTAT

ELECTRICAL LOAD ANALYSIS		
LOAD	AMPS @ 480V	AMPS @ 208V
TRANSFORMER AND CONTROLS	70 KVA	291
25% OF LARGEST MOTOR	70	70
TOTAL LOAD	361	361
SERVICE AMPACITY @ 480 VOLT	400	400
SPARE CAPACITY @ 480 VOLT	(42 KVA)	39



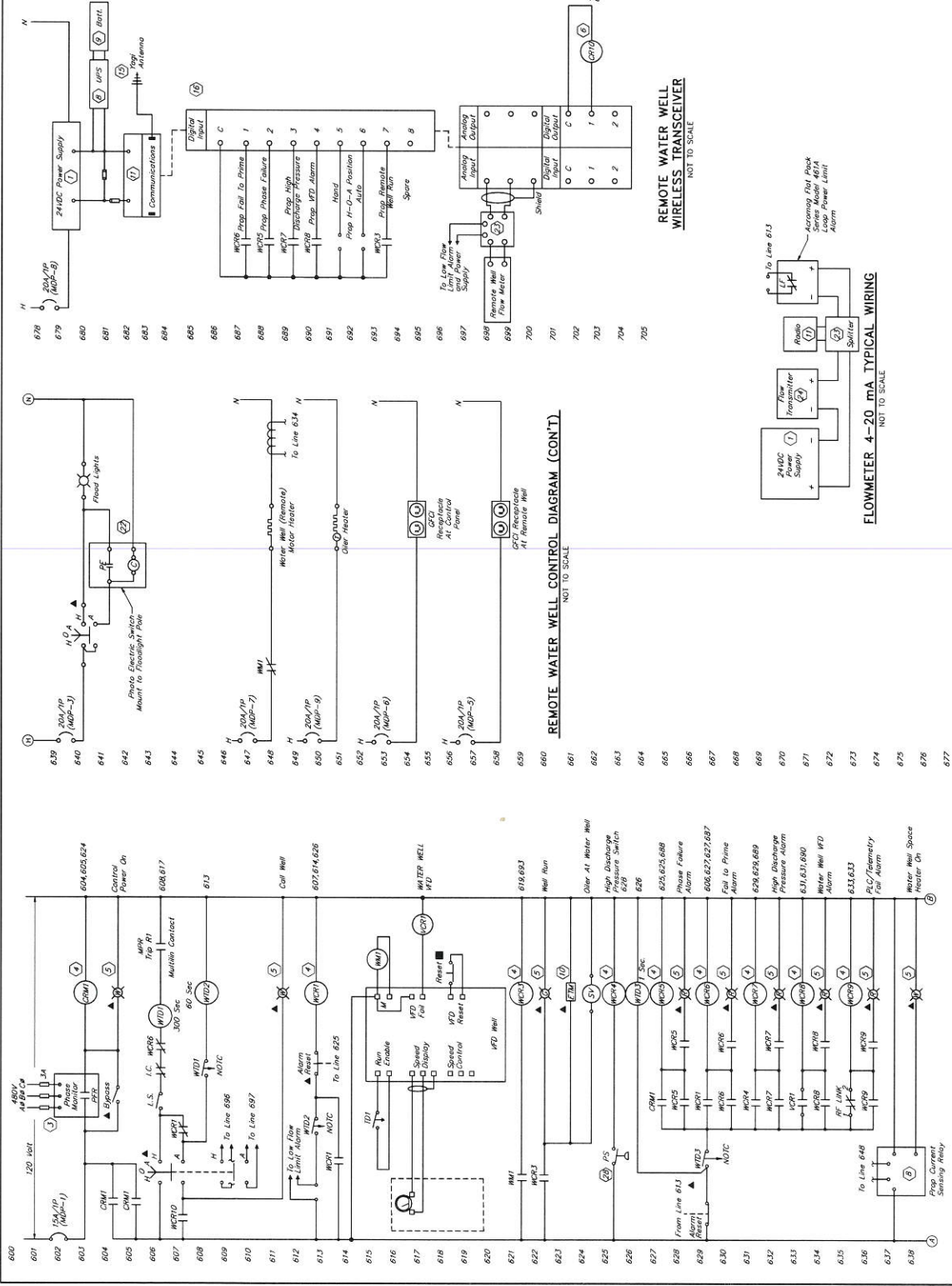
NOT TO SCALE

REMOTE WATER WELL ONE-LINE DIAGRAM

BUS AMPS 400A MLO
 MAIN BRKR AMPS 400A
 WIRE SIZE 500 MCM
 VOLTS 240/120 A/C
 PHASE 1 2 3 SN

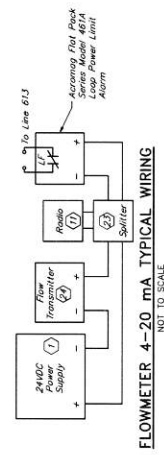
CKT. DESCRIPTION	WIRE LOAD/BKR.		BKR. LOAD/WIRE		CMT. DESCRIPTION
	A	B	A	B	
CONTROL	12	500	2	12	WELL PUMP FEEDER
FLOODLIGHTS	12	500	2	12	WELL PUMP FEEDER
RECEPTACLE AT WELL (GFCI)	12	180	6	20	RECEPTACLE AT CONTROL PANEL
RECEPTACLE AT WELL (GFCI)	12	180	6	20	RECEPTACLE AT CONTROL PANEL
REMOTE WELL OIL RESERVOIR HEATER	12	300	10	20	RADIO UPS
SPARE	20	20	17	20	SPARE
SPARE	20	20	18	20	SPARE
SPARE	20	20	19	20	SPARE
SPARE	20	20	20	20	SPARE

- NOTES:**
- Breakers 1/2/3/4 unless marked
 - Adj. cuts. to bal. ph.
 - Rock Mount, NEMA 3R



REMOTE WATER WELL CONTROL DIAGRAM (CONT.)
NOT TO SCALE

REMOTE WATER WELL WIRELESS TRANSMITTER
NOT TO SCALE



FLOWMETER 4-20 mA TYPICAL WIRING
NOT TO SCALE

APPROVED: *[Signature]*
DATE: 4/1/15

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
ELECTRICAL CONTROL
DIAGRAM

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
4333 S. GULF Fwy., Suite 100 Houston, Texas 77057-1530
PHONE: 281-486-8800 FAX: 281-486-8801

SCALE: AS SHOWN DRAWN BY: JEL
JOB NO.: 2013-01-01-02 DWG. NO.:
SUBMITTED: DATE: 2/1/15

REVISIONS

NO.	DATE	REVISIONS	BY

PROJECT COORDINATOR

NOTES

1. Nameplates shall be constructed from laminated plastic and shall be 1/2" thick. The minimum height shall be 3/16" with a minimum width of 3/16". The minimum cause length to exceed 2 1/2". Alarm nameplates shall be 1/2" thick. All nameplates shall be printed in white letters on black background. All nameplates to panel using self-tapping stainless steel screws. Submit details with shop drawing.

NO.	DESCRIPTION
1	POWER MONITOR
2	MAIN BREAKER
3	REMOTE WEL
4	LIGHTING PANEL
5	LIGHTING TRANSFORMER BREAKER
6	SURGE PROTECTION DEVICE
7	OFF - AUTO
8	REMOTE WELL CALL
9	FAIL TO PRIME
10	PHASE FAILURE
11	HIGH DISCHARGE PRESSURE
12	WFO ALARM
13	PC/FREQUENCY FAILURE
14	WFO ALARM BYPASS
15	WFO ALARM
16	FLOODLIGHT H-O-A
17	WELL RUN
18	WELL H-O-A
19	100 KVA TRANSFORMER
20	REMOTE WELL SPACE HEATER
21	CONTROL AND RADIO PANEL
22	MAIN DISCONNECT
23	MAIN DISCONNECT
24	MAIN DISTRIBUTION PANEL

APPROVED: *[Signature]*
ELECTRICAL COORDINATOR

DATE: 4/8/15

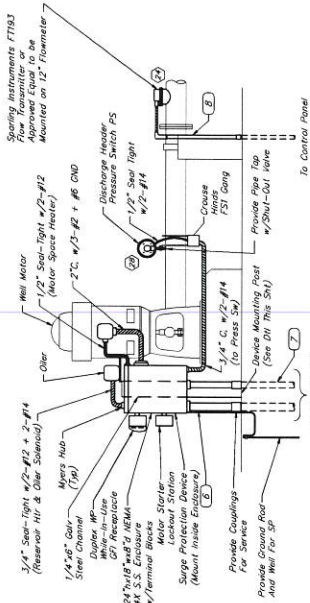
NO.	DATE	REVISIONS
1		
2		

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS
WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
REMOTE WATER WELL
ELECTRICAL DETAILS

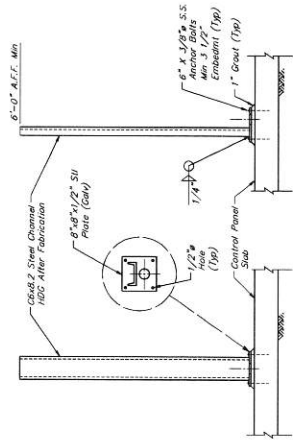
J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
6301 GARDNER, SUITE 100 HOUSTON, TEXAS 77030
SCALE: AS SHOWN
DATE: FEBRUARY 2015
JOB NO. 08335-0181-02
SUBMITTED: 4/1/14
DRAWN BY: JAD
CHECKED BY: JAD
F.B. NO.

SHEET NO. 30 OF 32

MINNIE E. LOCKER
TRUST



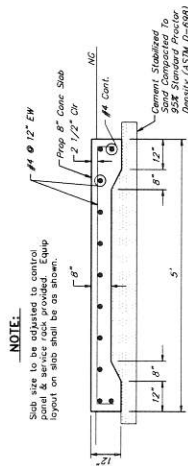
REMOTE WATER WELL PUMP DETAIL
NOT TO SCALE



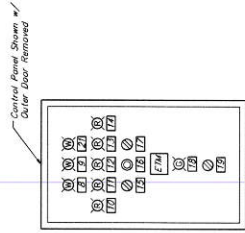
FRONT VIEW

SIDE VIEW

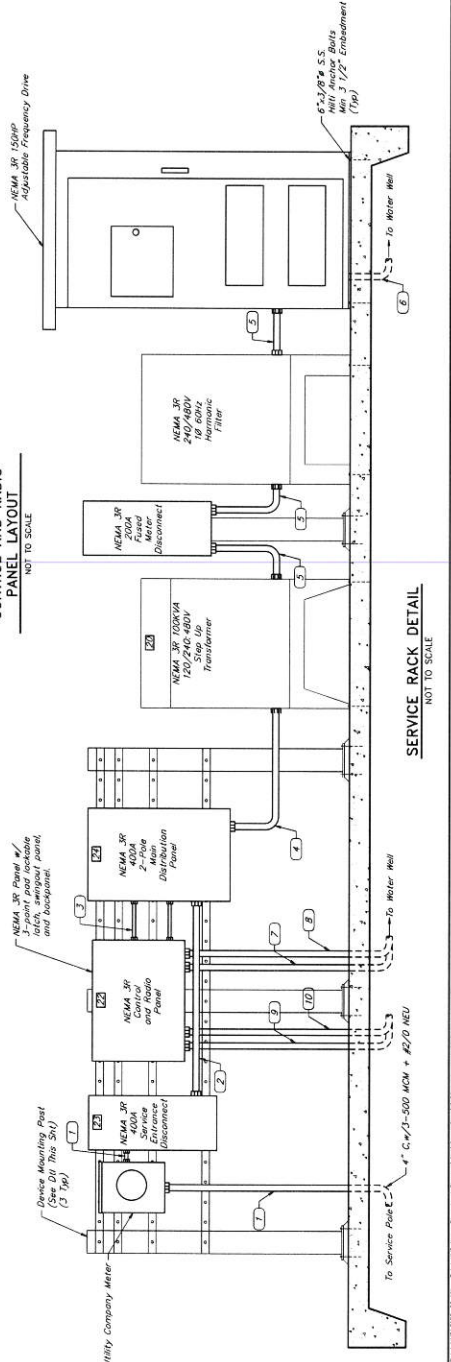
DEVICE MOUNTING POST DETAIL
NOT TO SCALE



SERVICE RACK SLAB DETAIL
NOT TO SCALE

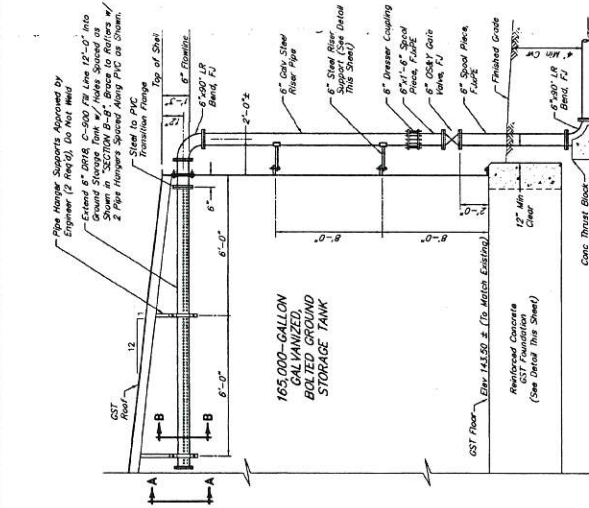
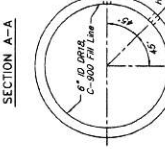
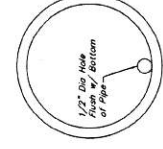


CONTROL AND RADIO
PANEL LAYOUT
NOT TO SCALE

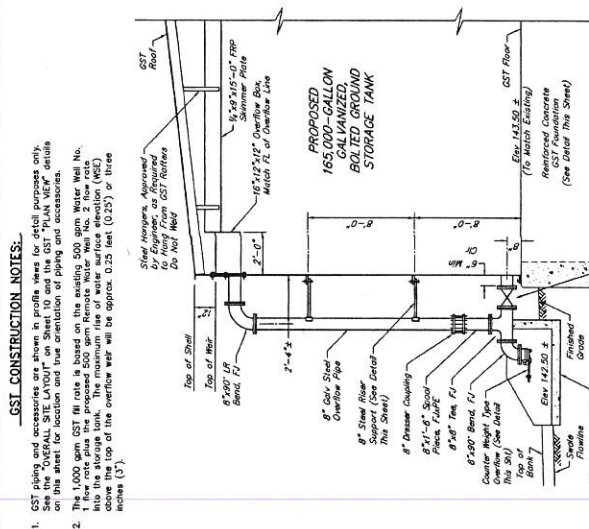


SERVICE RACK DETAIL
NOT TO SCALE

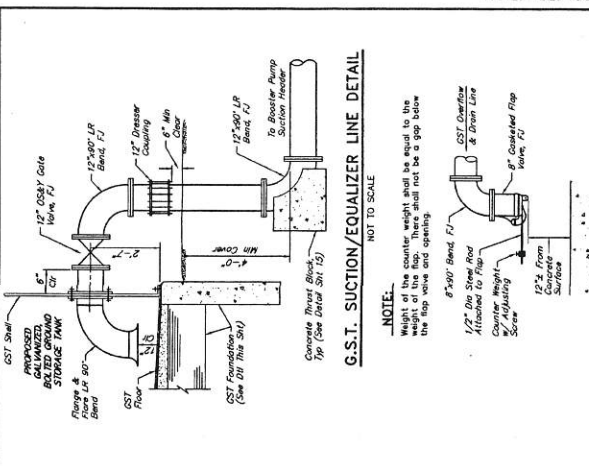
- NOTES:**
- Drawings 2 and 3 along the 12'-0" length of the fill line to meet the water Counter Clockwise in Ground Storage Tank No. 2.
 - Drawings 1, 2 and 3 along the 12'-0" length of the fill line to meet the water Counter Clockwise in Ground Storage Tank No. 1.
 - All drilled holes for 8" ID PVC pipe shall be spaced along the fill line. Remove all dirt from the fill line.
 - No water shall spray the GST roof.



G.S.T. NOS. 1 & 2 FILL LINE DETAIL
NOT TO SCALE

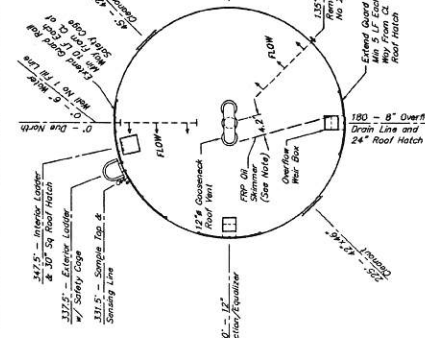


G.S.T. OVERFLOW/DRAIN LINE DETAIL
NOT TO SCALE

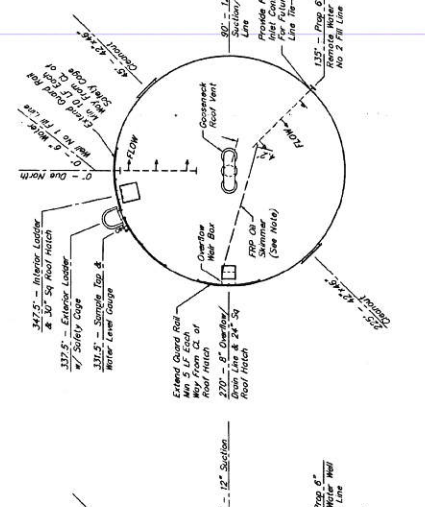


G.S.T. SUCTION/EQUALIZER LINE DETAIL
NOT TO SCALE

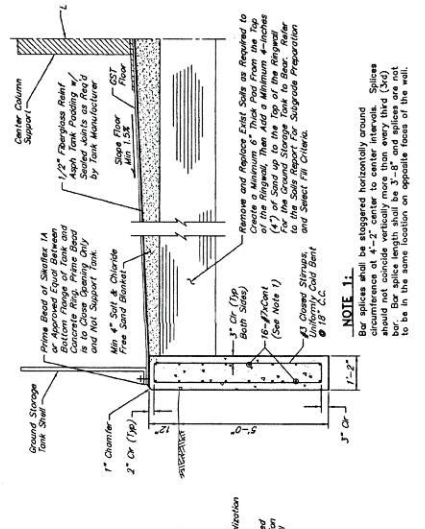
OIL SKIMMER NOTE:
The 12'-0" long FRP shall be from GST roof to be used as an oil skimmer during overflow. Hang it such that it is 6" above and 3" below lip of overflow weir box.



G.S.T. No. 2 (PROPOSED) ACCESSORY DETAIL - PLAN VIEW
NOT TO SCALE



G.S.T. No. 1 (EXISTING) ACCESSORY DETAIL - PLAN VIEW
NOT TO SCALE



GROUND STORAGE TANK FOUNDATION
NOT TO SCALE

- CONSTRUCTION NOTES:**
- GST piping and accessories are shown in profile views for detail purposes only. See drawings for elevation and location details.
 - The 1,000 gpm GST fill rate is based on the existing 600 gpm Water No. 2 flow rate into the storage tank. The maximum rate of water storage elevation (WSE) is 1.0 ft. The top of the overflow weir will be approx. 0.25 feet (0.25') or less above (3').

NOTE:
Weight of the counter weight shall be equal to the weight of the line. Three shall not be a gap below the top flange and coupling.

NOTE:
For ground storage tank foundation details, see drawing 10-11-17.

APPROVED: *[Signature]* PROJECT COORDINATOR

DATE: 4/1/15

NO.	DATE	REVISIONS	APP.

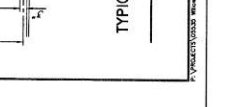
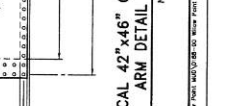
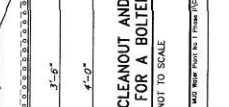
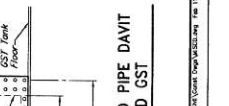
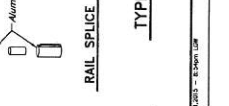
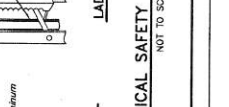
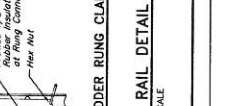
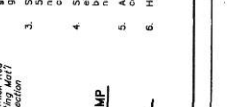
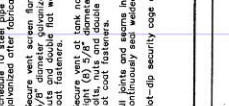
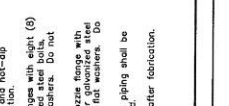
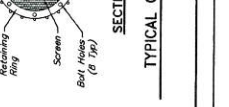
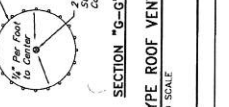
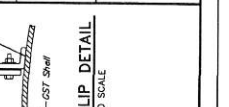
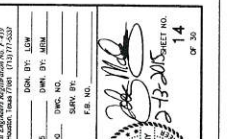
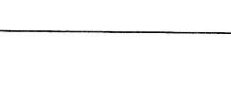
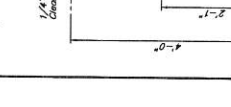
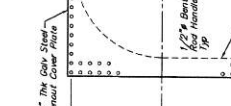
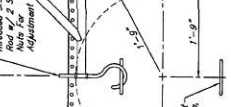
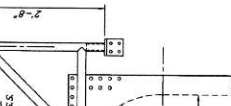
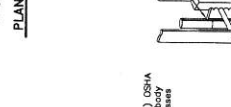
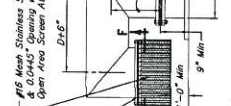
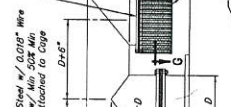
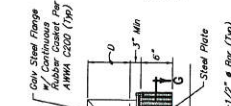
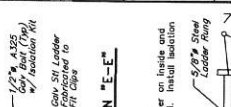
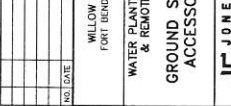
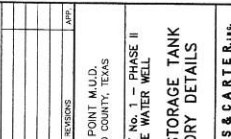
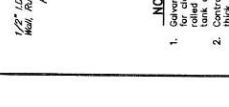
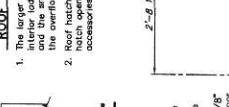
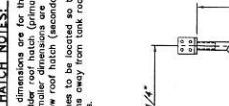
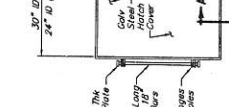
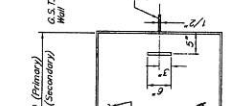
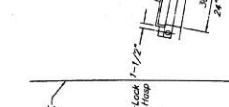
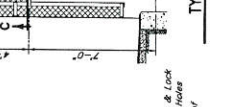
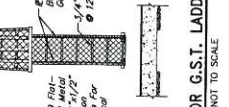
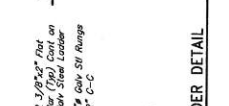
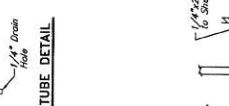
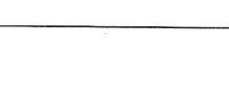
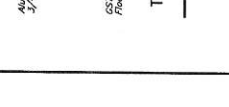
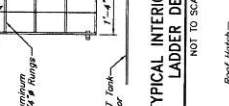
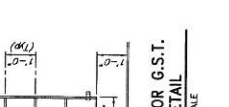
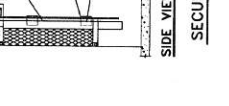
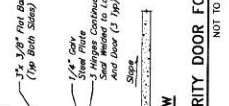
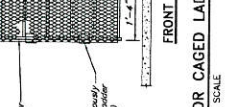
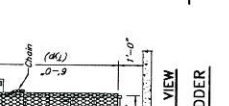
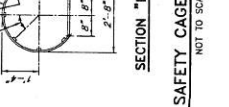
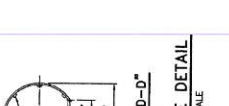
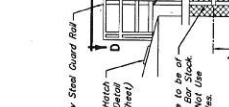
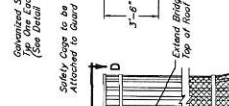
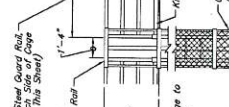
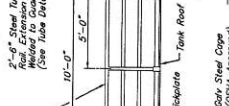
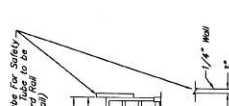
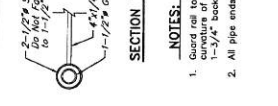
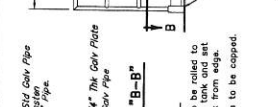
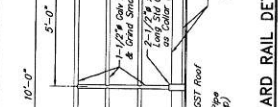
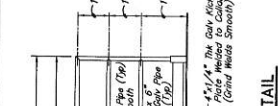
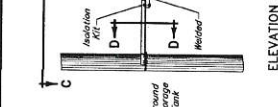
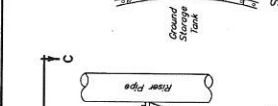
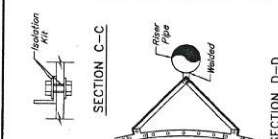
WILLOW POINT M.U.D.,
FORT BEND COUNTY, TEXAS

**WATER PLANT No. 1 - PHASE II
GROUND STORAGE TANK
PIPING DETAILS**

J.C. JONES & CARTER
Civil & Mechanical Engineers, Planners & Surveyors
2000 West Loop South, Suite 1000, Houston, Texas 77027
TEL: 713-865-1100 FAX: 713-865-1101

SCALE: AS SHOWN DCA: EFC: LON
JOB NO. 15010-0000-00 DSK: NO.
JOB DATE: FEBRUARY 2015 DWN: BY: BHA
SUBMITTED: 2/11/15 F.I. NO.:

TERRY W. MADDOX
SEAL
13
02



APPROVED: [Signature]
DATE: 4/8/85

WILLOW POINT M.U.D.
FORT BEND COUNTY, TEXAS

WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
GROUND STORAGE TANK
ACCESSORY DETAILS

JC JONES & CARTER, INC.
13000 WEST 13TH STREET, SUITE 100, HOUSTON, TEXAS 77040
SCALE: AS SHOWN
DATE: 4/8/85
DRAWN BY: JMM
CHECKED BY: [Signature]
PROJECT NO. 14
SHEET NO. 14

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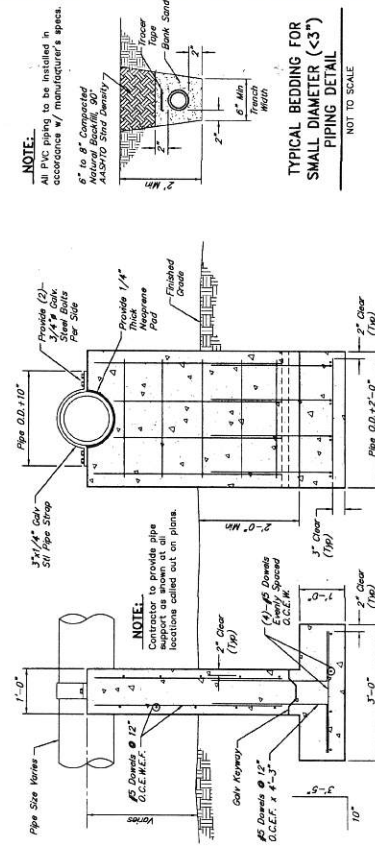
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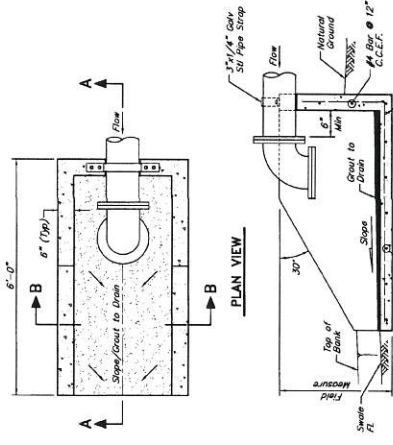
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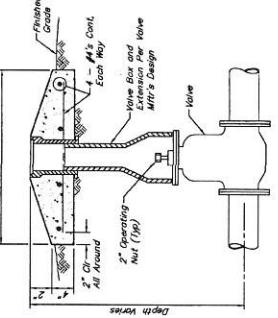
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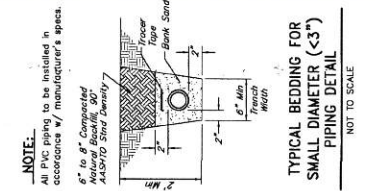
CONCRETE PIPE SUPPORT DETAIL
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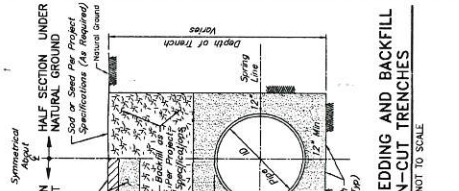
WATER LINE BEDDING AND BACKFILL FOR OPEN-CUT TRENCHES
NOT TO SCALE



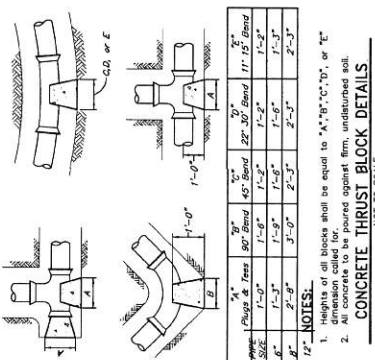
TYPICAL VALVE WITH BOX DETAIL
NOT TO SCALE



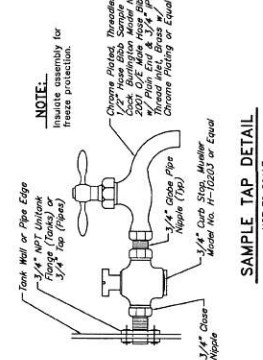
TYPICAL BEDDING FOR SMALL DIAMETER (<3\") PIPING DETAIL
NOT TO SCALE



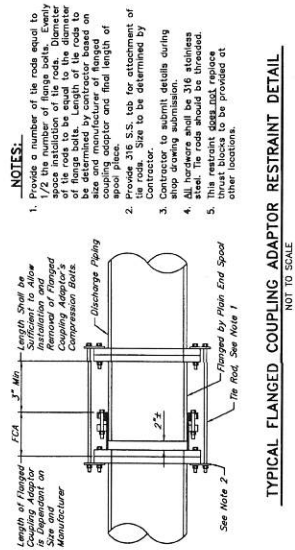
**REMOVABLE 8\"/>
 PIPE BOLLARD DETAIL
NOT TO SCALE**



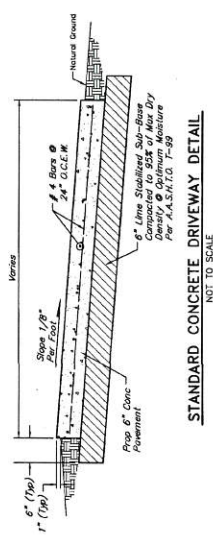
CONCRETE THROUST BLOCK DETAILS
NOT TO SCALE



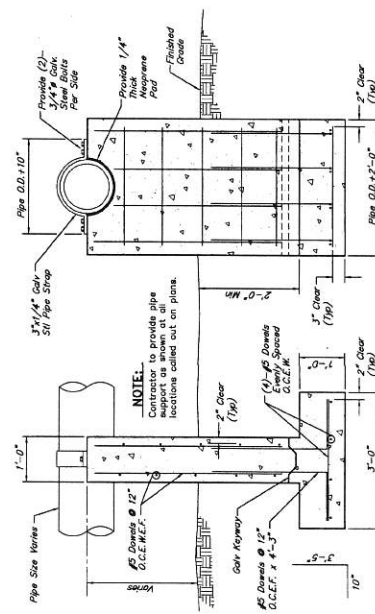
SAMPLE TAP DETAIL
NOT TO SCALE



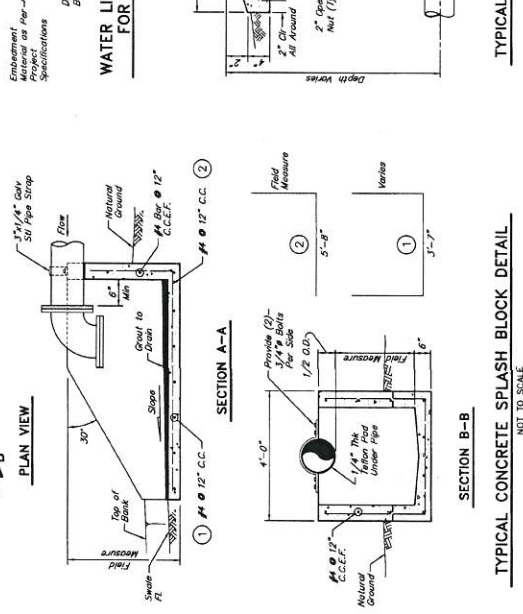
TYPICAL FLANGED COUPLING ADAPTOR RESTRAINT DETAIL
NOT TO SCALE



STANDARD CONCRETE DRIVEWAY DETAIL
NOT TO SCALE



TYPICAL CONCRETE SPLASH BLOCK DETAIL
NOT TO SCALE



SECTION A-A

SECTION B-B

APPROVED: *[Signature]*
 DATE: 4/1/15
 PROJECT COORDINATOR

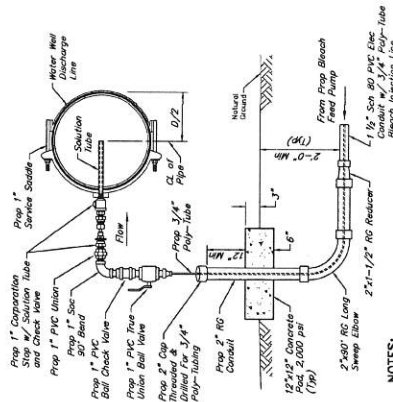
NO.	DATE	REVISIONS	APP.

WILLOW POINT M.U.D.
 FORT BEND COUNTY, TEXAS
WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL

MISCELLANEOUS DETAILS

J.C. JONES & CARTER, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 13000 WEST 10TH STREET, SUITE 100, FORT WORTH, TEXAS 76132
 PHONE: (817) 335-1234 FAX: (817) 335-1235
 WWW: www.jonesandcarter.com

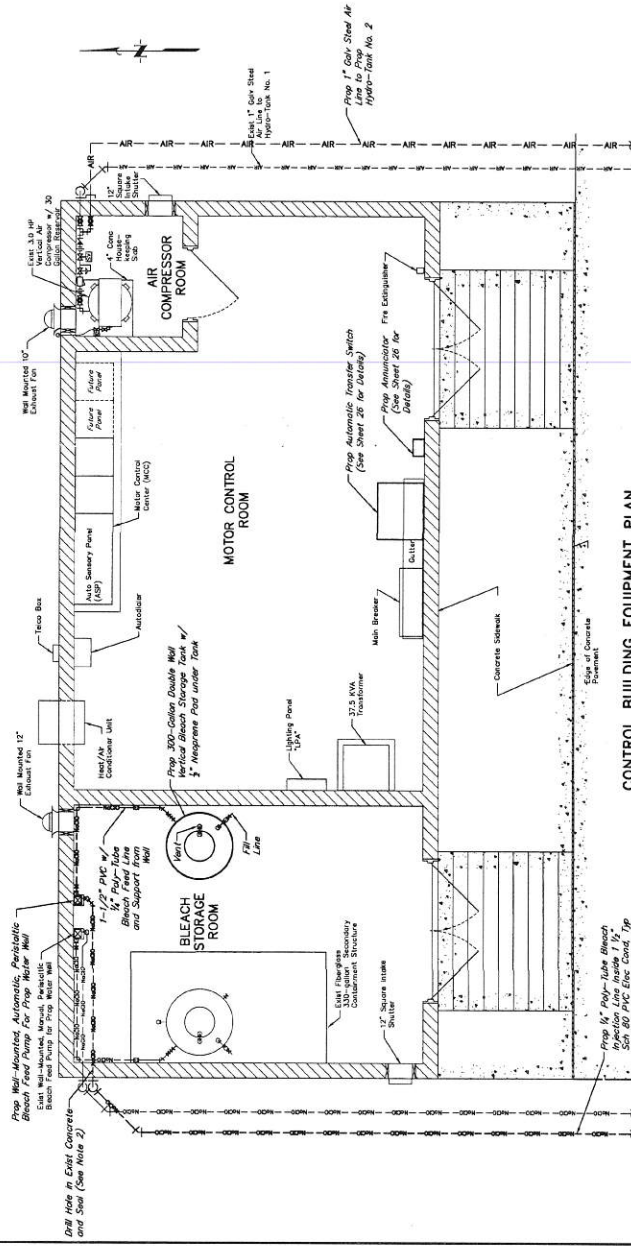
SCALE: AS SHOWN DWN BY: LCM
 DATE: FEBRUARY 2015 DWN BY: MSW
 JOB NO.: 03333-2888-00 DWC NO.:
 SURV BY: SURV BY:
 SUBMITTED: FILE NO.:
 2-2015 SHEET NO. 15 OF 30



- NOTES:**
1. All steel aboveground chemical injection lines exposed to weather are to be insulated.
 2. "D" is equal to the pipe diameter.
 3. Stencil tag identification on pipe (Tag).

BLEACH (NaClO) INJECTION POINT DETAIL

NOT TO SCALE



CONTROL BUILDING EQUIPMENT PLAN

NOT TO SCALE

PIPING NOTES:

1. Contractor shall construct ALL POLY-TUBE solution lines enclosed in Schedule 40 galvanized steel pipe. The pipe shall be installed in a trench and shall be covered with a minimum of 12 inches of concrete. The trench shall be backfilled with concrete to the top of the trench. The trench shall be sealed with a minimum of 1/2 inch of concrete. The trench shall be sealed with a minimum of 1/2 inch of concrete.
2. All wall penetrations through the control building shall be tightly sealed with an approved chemical resistant non-airtight grout. Points.
3. Contractor to add Degassing Vent Valve on Disinfection Piping High Points.
4. Piping schematically shown, locate along wall with supports. Contractor to provide piping supports and wall mounts inside Bleach Storage Room.

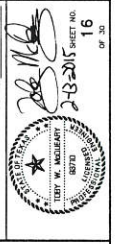
APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 4/15

NO.	DATE	REVISIONS

WILLOW POINT M.U.D.,
FORT BEND COUNTY, TEXAS

**WATER PLANT No. 1 - PHASE II
& REMOTE WATER WELL
CONTROL BUILDING
ACCESSORY DETAILS AND
GENERATOR DETAILS**

J. C. JONES & COMPANY
REGISTERED PROFESSIONAL ENGINEERS
1000 WEST 10TH STREET, SUITE 100
HOUSTON, TEXAS 77001-1100
PHONE: 713-865-1100
FAX: 713-865-1101
WWW: www.jcjc.com



PROJECT NO. 2018-001
SHEET NO. 16
OF 30

