



**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

Right of Way Permit

Commercial Driveway Permit

Permit No: 2016-10274

Applicant: T & C Construction, LTD

Job Location Site: 2455 1/2 #C Harlem Road, Richmond, TX 77406

Bond No. [REDACTED] **Date of Bond:** 10/26/2016 **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 portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 14th day of February, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, 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: Chandy O. Aj
County Engineer

Date Recorded 2-17-17 Comm. Court No. 12C

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: Ronda Wilkins
Deputy



**PERMIT APPLICATION REVIEW FORM 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

- Right of Way Permit
- Commercial Driveway Permit

Permit No: 2016-10274

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: [REDACTED] 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.

Charles O. Al

Permit Administrator

2/7/17

Date



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

BOND NO. [REDACTED]

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, T & C Construction, Ltd. whose address is 5411 Killough St., Houston, Texas 77086 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, Texas 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 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, 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 26th day of October, 2016.

T & C Construction, Ltd.
PRINCIPAL
Thomas N. Rumney
BY Thomas N. Rumney, President of T & C Holding, LLC,
its General Partner
Hartford Casualty Insurance Company
SURETY
Francine Hay
BY Francine Hay Attorney-in-Fact



POWER OF ATTORNEY

Direct Inquiries/Claims to:
THE HARTFORD
 BOND, T-12
 One Hartford Plaza
 Hartford, Connecticut 06155
 Bond.Claims@thehartford.com
 call: 888-266-3488 or fax: 860-757-5835

KNOW ALL PERSONS BY THESE PRESENTS THAT:

Agency Code: 61-610074

- 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** :

Sharon Cavanaugh of Houston TX, C.W. Adams, Roxanne G. Brune, Sharen Groppe, David R. Groppe, Francine Hay, Beverly A. Ireland, Sue Kohler, Edward L. Moore, Kurt A. Risk, James W. Tomforde, Gloria Villa of HOUSTON, Texas

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 May 6, 2015 the Companies have caused these presents to be signed by its Senior 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.



John Gray

John Gray, Assistant Secretary

M. Ross Fisher

M. Ross Fisher, Senior Vice President

STATE OF CONNECTICUT }
 COUNTY OF HARTFORD } ss. Hartford

On this 11th day of January, 2016, 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 Senior 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

Nora M. Stranko

Nora M. Stranko
 Notary Public
 My Commission Expires March 31, 2018

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 26th day of October, 2016. Signed and sealed at the City of Hartford.



Kevin Heckman

Kevin Heckman, Assistant Vice President

Inquiries Regarding Claims

Hartford Fire Insurance Company
Hartford Casualty Insurance Company
Hartford Accident and Indemnity Company
Hartford Underwriters Insurance Company

Twin City Insurance Company
Hartford Insurance Company of Illinois
Hartford insurance Company of the Midwest
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

RETURN AT COUNTER:
ADMINISTRATIVE SERVICES COORDINATOR

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

Laura Richard



Laura Richard, County Clerk
Fort Bend County, Texas

February 20, 2017 12:58:03 PM

FEE: \$0.00 TS1
BOND

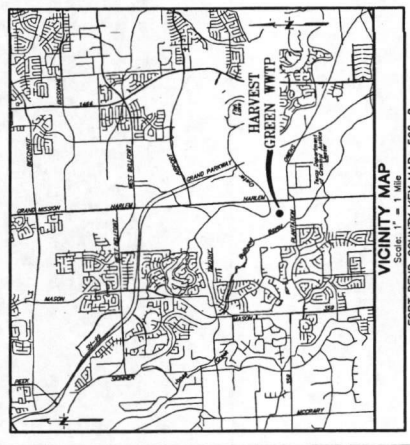
2017017950

CONSTRUCTION OF 0.2 MGD HARVEST GREEN WASTEWATER TREATMENT PLANT

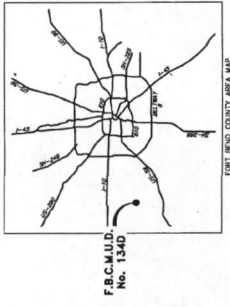
FOR GRAND PARKWAY 1358, LP ON BEHALF OF FORT BEND COUNTY M.U.D. No. 134D AND FORT BEND COUNTY M.M.D. No. 1 FORT BEND COUNTY, TEXAS

INDEX OF DRAWINGS

SHEET No.	TITLE
1.	COVER SHEET & INDEX
2.	CONSTRUCTION NOTES
3.	PROPOSED FLOW DIAGRAM
4.	PROCESS & INSTRUMENTATION DIAGRAM LEGEND - SHEET 1 OF 2
5.	PROCESS & INSTRUMENTATION DIAGRAM LEGEND - SHEET 2 OF 2
6.	PROPOSED AERATION BASIN P&ID
7.	PROPOSED CLARIFIER P&ID
8.	PROPOSED DIGESTER P&ID
9.	PROPOSED BLOWER P&ID
10.	PROPOSED CHLORINE CONTACT BASIN P&ID
11.	PROPOSED NON-POTABLE WATER SYSTEM P&ID
12.	PROPOSED DISINFECTION SYSTEM P&ID
13.	HYDRAULIC PROFILE
14.	SURVEY CONTROL SHEET
15.	OVERALL SITE LAYOUT
16.	PAVING, GRADING, & PIPING LAYOUT
17.	SITE GRADING & DRAINAGE
18.	ENLARGED SITE LAYOUT 1 - SHEET 1 OF 2
19.	ENLARGED SITE LAYOUT 1 - SHEET 2 OF 2
20.	WWTP SECTIONS 1 - SHEET 1 OF 2
21.	WWTP SECTIONS 2 - SHEET 2 OF 2
22.	BAR SCREEN DETAILS
23.	PROPOSED BLOWER FACILITIES
24.	MISCELLANEOUS DETAILS - SHEET 1 OF 4
25.	MISCELLANEOUS DETAILS - SHEET 2 OF 4
26.	MISCELLANEOUS DETAILS - SHEET 3 OF 4
27.	MISCELLANEOUS DETAILS - SHEET 4 OF 4
28.	ELECTRICAL NOTES & LEGEND
29.	ELECTRICAL SITE LAYOUT
30.	ELECTRICAL CONDUIT SCHEDULE & DUCT BANK DETAILS
31.	ELECTRICAL ONE-LINE DIAGRAM
32.	ELECTRICAL POWER & LIGHTING PLAN - SHEET 1 OF 2
33.	ELECTRICAL POWER & LIGHTING PLAN - SHEET 2 OF 2
34.	ELECTRICAL CONTROL DIAGRAM - SHEET 1 OF 2
35.	ELECTRICAL CONTROL DIAGRAM - SHEET 2 OF 2
36.	ELECTRICAL MISCELLANEOUS DETAILS - SHEET 1 OF 3
37.	ELECTRICAL MISCELLANEOUS DETAILS - SHEET 2 OF 3
38.	ELECTRICAL MISCELLANEOUS DETAILS - SHEET 3 OF 3
39.	STRUCTURAL CRUSHED CONCRETE PAD PLAN & SECTION
40.	STRUCTURAL BLOWER PAD PLAN AND SECTIONS
41.	STORM WATER POLLUTION PREVENTION PLAN
42.	STORM WATER POLLUTION PREVENTION PLAN DETAILS
43.	DRAINAGE CHANNEL SECTIONS
44.	DRAINAGE CHANNEL SECTIONS



FORT BEND COUNTY REF MAP: 568-C
Scale: 1" = 1 mile
8755 1/2 HARLEM ROAD, RICHMOND, TX 77406



F.R.C.M.U.D. No. 134D
FORT BEND COUNTY AREA MAP

FORT BEND COUNTY ENGINEER
 ENGINEER: *Paul J. Douglas, P.E.*
 DATE: 1/17/16
 THESE SIGNATURES ARE VOID IF CONSTRUCTION BEGINS BEFORE THE DATE OF APPROVAL.
 APPROVED: *[Signature]*
 DATE: 1/17/16

CITY OF RICHMOND, TEXAS

Term: *John V. Ueda*
 City Manager
 Date: 12/21/15
 Date: 12/21/15
 Kelly R. Kelley, P.E.
 City Engineer



AUGUST 2015
 JC JOB No. 05540-0891-00

JONES CARTER
 Texas Board of Professional Engineers Registration No. F-419
 6335 Gifford, Suite 100 - Houston, Texas 77061 • 713.771.5337

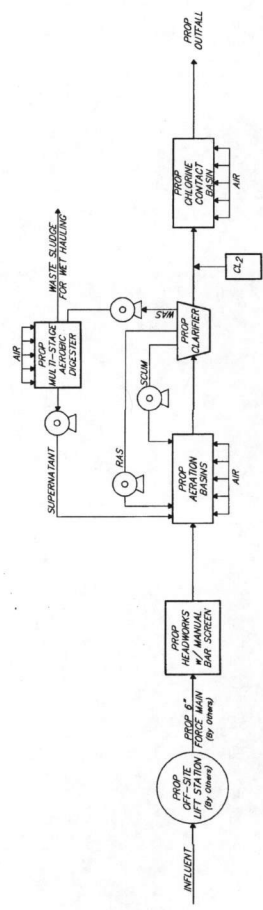
CONFORMED DOCUMENTS

PROPOSED DESIGN DATA TABLE

FLOW	PROP. UNIT
AVERAGE DAILY FLOW (D.F.F.)	300,000
PEAK 2-HOUR FLOW (P.F.F.)	800,000
INFLUENT LOADS:	
BOD ₅ (LB/DAY)	417
BOD ₅ (LB/1000 GAL)	1.39
SS (LB/DAY)	67
SS (LB/1000 GAL)	0.22
EFFLUENT LIMITS:	
BOD ₅ (mg/l)	10
SS (mg/l)	15
NH ₄ -N (mg/l)	2
GENERATION BASINS:	
TOTAL VOLUME (CU FT)	12,792
NO. BAYS (ROW X COL)	3 X 2
FINAL CLARIFIERS - ACTIVATED SLUDGE PROCESS:	
TOTAL SURFACE AREA (SQ. FT.)	1,590
NO. BAYS (ROW X COL)	3 X 2
CLARIFIER DEPTH (FT)	5.0
SOLE WATER DEPTH (FT)	3.0
DEPLETION TIME AT PEAK FLOW (HRS.)	2.0
DIGESTERS - AEROBIC:	
TOTAL VOLUME (CU FT)	13,318
NO. BAYS (ROW X COL)	2 X 3
CHLORINE CONTACT BASIN:	
TOTAL VOLUME (CU FT)	3,458
NO. BAYS (ROW X COL)	1 X 3
RETENTION TIME AT PEAK FLOW (MINUTES)	46.5
AIR REGENERATION (S.C.F.M.)	1,583
CHLORINATION (S.C.F.M.)	309
DISINFECTION (S.C.F.M.)	89
NET TOTAL REQUIRED (S.C.F.M.)	2,108
AIR BLOWERS:	
TOTAL NUMBER	2
TYPE	RECIPROCATING
RATED CAPACITY WITH LARGEST UNIT OUT OF SERVICE (S.C.F.M.)	2,156

LEGEND:

- CL₂ CHLORINE
- MCD MILLION GALLONS PER DAY
- RAS RETURN ACTIVATED SLUDGE
- WAS WASTE ACTIVATED SLUDGE
- PROPOSED
- AIR LIFT



FLOW DIAGRAM - 0.2 MGD PROPOSED TRAIN
NOT TO SCALE

APPROVED: *[Signature]*
DESIGN DEVELOPMENT COORDINATOR
DATE: 4/16

NO. DATE	REVISIONS	APPD.
FORT BEND COUNTY MUD NO. 134D FORT BEND COUNTY, TEXAS 0.2 MGD HARVEST GREEN WASTEWATER TREATMENT PLANT PROCESS FLOW DIAGRAM		
JONES CARTER Texas Board of Professional Engineers Registration No. F-439 License No. 11333 SCALE: AS SHOWN DRAW BY: EC DATE: AUGUST 2015 DWG. NO.: EIA JOB NO.: 05040-2001-00 DWG. NO.: SUBMITTED: SURVY BY: F.B. NO.:		
TEXAS STATE SEAL SEANITY OFFICER 1939		SHEET NO. 3 OF 14

[Handwritten Signature]
08.27.15

INSTRUMENT IDENTIFICATION LETTERS:

AI	AVERAGE INDICATOR
AG	GAS INDICATING TRANSMITTER
AGE	CHLORINE GAS SENSOR ELEMENT
DOE	DISSOLVED OXYGEN SENSOR ELEMENT
DOT	DISSOLVED OXYGEN INDICATING TRANSMITTER
ES	EMERGENCY STOP
ETM	ELAPSED TIME METER
FE	FLOW RATE SENSOR ELEMENT
FIC	FLOW RATE INDICATING CONTROLLER
FIT	FLOW RATE INDICATING TRANSMITTER
FSL	FLOW SWITCH LOW
FHS	HAND MOMENTARY SWITCH
HMS	HAND SWITCH
LC	LEVEL CONTROLLER
LE	LEVEL SENSOR ELEMENT
LI	LEVEL INDICATOR
LIT	LEVEL INDICATING TRANSMITTER
LKS	LOCK STOP
LS	LEVEL SWITCH HIGH
LSL	LEVEL SWITCH LOW
LT	LEVEL TRANSMITTER
MF	MOTOR FAILURE
MP	MOMENTARY PUSH BUTTON
PAH	PRESSURE ALARM HIGH
PE	PRESSURE ELEMENT
PI	PRESSURE INDICATOR
PT	PRESSURE INDICATING TRANSMITTER
PR	PROBE RELAY
PS	PRESSURE SWITCH
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
SS	SIGNAL SWITCHED
TF	TEMPERATURE FAILURE
TI	TEMPERATURE INDICATOR
TS	TEMPERATURE SENSOR
VI	VACUUM INDICATOR
VS	VACUUM SWITCH
WE	WEIGHT ELEMENT
WEL	WEIGHT ELEMENT FOR
YH	STATE FAILURE
YI	STATE OPENED
YIT	STATE INDICATING TRANSMITTER
YL	INDICATING LIGHT
YS	STATE CLOSED

EQUIPMENT ABBREVIATIONS:

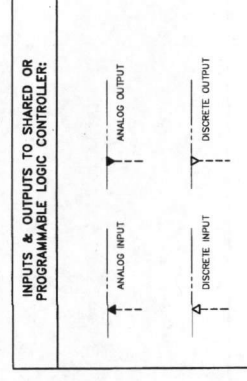
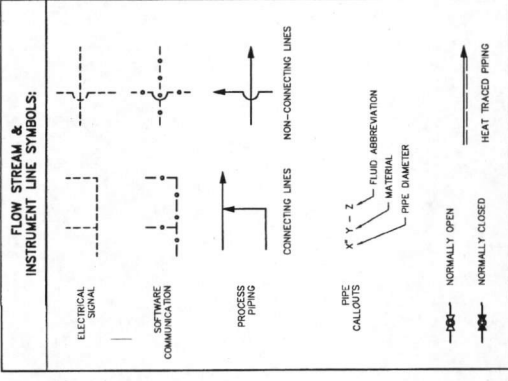
3W	THREE WAY VALVE
4W	FOUR WAY VALVE
ACK	AIR CHECK VALVE
ADV	AUTOMATIC DRAIN VALVE
AL	AIR LIFT PUMP
ANV	ANGLE VALVE
APR	ANGLE PRESSURE RELIEF VALVE
ASV	AUTOMATIC SWITCHOVER VALVE
AVV	AIR & VACUUM VALVE
BCV	BALL CHECK VALVE
BPV	BACKFLOW PREVENTER
BS	BUTTERFLY VALVE
BSV	BASKET STRAINER
CCV	CHECK VALVE
CCP	CORROSION STOP
DA	DECANT ARM
DBS	DUPLEX BASKET STRAINER
DCV	DOUBLE CHECK VALVE
DIP	DUCTILE IRON PIPE
DS	DASHROOM SEAL VALVE
ESV	EXTERNAL PRESSURE TAP
EXBR	EXTERNAL PRESSURE REGULATOR WITH
FCV	FLOW CONTROL VALVE
GCV	GATE CHECK VALVE
GLB	GLOBE VALVE
GS	GALVANIZED STEEL
HT	HORIZONTAL PRESSURE RELIEF VALVE
HTV	HORIZONTAL PRESSURE TAP
IB	INDUCTOR
INJ	INDUCTION PUMP
IP	ISOLATION VALVE
ISV	ISOLATION VALVE
JP	JOCKEY PUMP
KOV	KNIFE GATE VALVE
MOR	MID VALVE
MUD	MUD VALVE
NDV	NEEDLE VALVE
NDP	NEEDLE PRESSURE VALVE
PD	PULSATON DAMPENER
PET	POLYETHYLENE TUBING
PPPS	PRESSURE REDUCING PRESSURE
PRR	PRESSURE REDUCING REGULATOR
PV	PLUG VALVE
RAV	ROTARY VALVE
RM	ROTAMETER
SAAV	SINGLE ACTING ALTITUDE VALVE
SC	SECONDARY CLAMPER
SKK	SILENT CHECK VALVE
SCPR	SELF-CONTAINED PRESSURE REGULATOR
SCPP	SELF-CONTAINED BACKPRESSURE
SDAR	SLUDGE AIR RELEASE VALVE
SDAV	SLUDGE AIR AND VACUUM VALVE
SLC	SLUDGE CRINDER PUMP
SP	SUBMERSIBLE PUMP
STP	SLUDGE TRANSFER PUMP
SV	SOLENOID VALVE
SWP	SWITCHOVER PUMP
TRC	TRANSFER AIR LIFT
TV	TELESCOPIC VALVE
VR	VACUUM REGULATOR
WS	WYE STRAINER
WSP	WELDED STEEL PIPE

FLUID ABBREVIATIONS:

A	AIR
CE	CHLORATED EFFLUENT
COV	CHLORINE GAS VACUUM
CS	CHLORINE SOLUTION
DL	DRAIN LINE
DS	DISSOLVED SLUDGE
DW	DISTILLED WATER
FE	FERRIC FERRIC
FM	FERRIC MANGANESE
FW	FRESH WATER
IR	INTERNAL RECYCLE
LAS	LIQUID AMMONIUM SULFATE
ML	MIXED LIQUOR
NPW	NON-POTABLE WATER
PAW	POTABLE WATER
PAV	RETURN ACTIVATED SLUDGE
RAS	RAW SEWAGE
RS	SAMPLE
SA	SODIUM BISULFITE
SB	SODIUM
SC	SEWAGE
SE	SECONDARY EFFLUENT
SH	SHOCKED EFFLUENT (BLEACH)
SI	SCREENED EFFLUENT
SJ	SUPERNATE
SN	SURFACE WATER
SW	WASTE ACTIVATED SLUDGE
WAS	WASTE

GENERAL ABBREVIATIONS:

DO	DISSOLVED OXYGEN
EL	ELEVATION
FAA	FREE AVAILABLE AMMONIA
FF	FINISHED FLOOR
FTS	FEET PER SECOND
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HOA	HAND OFF AUTO
HP	HORSE POWER
LCP	LOCAL CONTROL PANEL
LF	LINEAR FEET
mA	MILLIAMPERE
MONO	MONOCHLORAMINE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OS	OPERATION POTENTIAL
SSST	STAINLESS STEEL
TAA	TOTAL AVAILABLE AMMONIA
TAC	TOTAL AVAILABLE CHLORINE
TDB	TOTAL DYNAMIC HEAD
TDB	TOP OF BANK
TDC	TOP OF CONCRETE
TDS	TOP OF DIRT
TOW	TOP OF WALL
V	VOLTS



INSTRUMENT & FUNCTION SYMBOLS:

AS	ACCESSIBLE SHARED DISPLAY
AS	FACE OF PANEL INSTRUMENT
AS	FIELD MOUNTED INSTRUMENT
AS	INTERLOCK INSTRUMENT
AS	INTERLOCK LOGIC
AS	LOCAL BATTERY
AS	OFF-GREEN
AS	ON-WHITE
AS	ON-YELLOW
AS	SPACE HEATER
AS	MOISTURE SENSOR
AS	TEMPERATURE SENSOR
AS	VARIABLE FREQUENCY DRIVE
AS	LIMIT SWITCH ALARM
AS	LIMIT SWITCH SHUTDOWN
AS	FLOW VERIFICATION SENSOR
AS	INSTRUMENTS SHARING COMMON HOUSING

APPROVED: *[Signature]*
DATE: 1/11/14

FORT BEND COUNTY MUD No. 1340
FORT BEND COUNTY, TEXAS

0.2 MGD HARVEST GREEN
WASTEWATER TREATMENT PLANT
PROCESS & INSTRUMENTATION
DIAGRAM LEGEND

JONES CARTER
1301 Jones, Suite 1200 - Houston, Texas 77002-7337 (713) 771-2337

SCALE: NO. SCALE DGN. BY: SC
DATE: AUGUST 2015 DWN. BY: J.A.
JOB NO.: 05545-2881-00 DMC. NO.:
SUBMITTED: BRYN BY:
F.R. NO.:
8/21/15

SHANNON COLLIER
NATURAL ENGINEER
1989

SHANNON COLLIER
NATURAL ENGINEER
1989

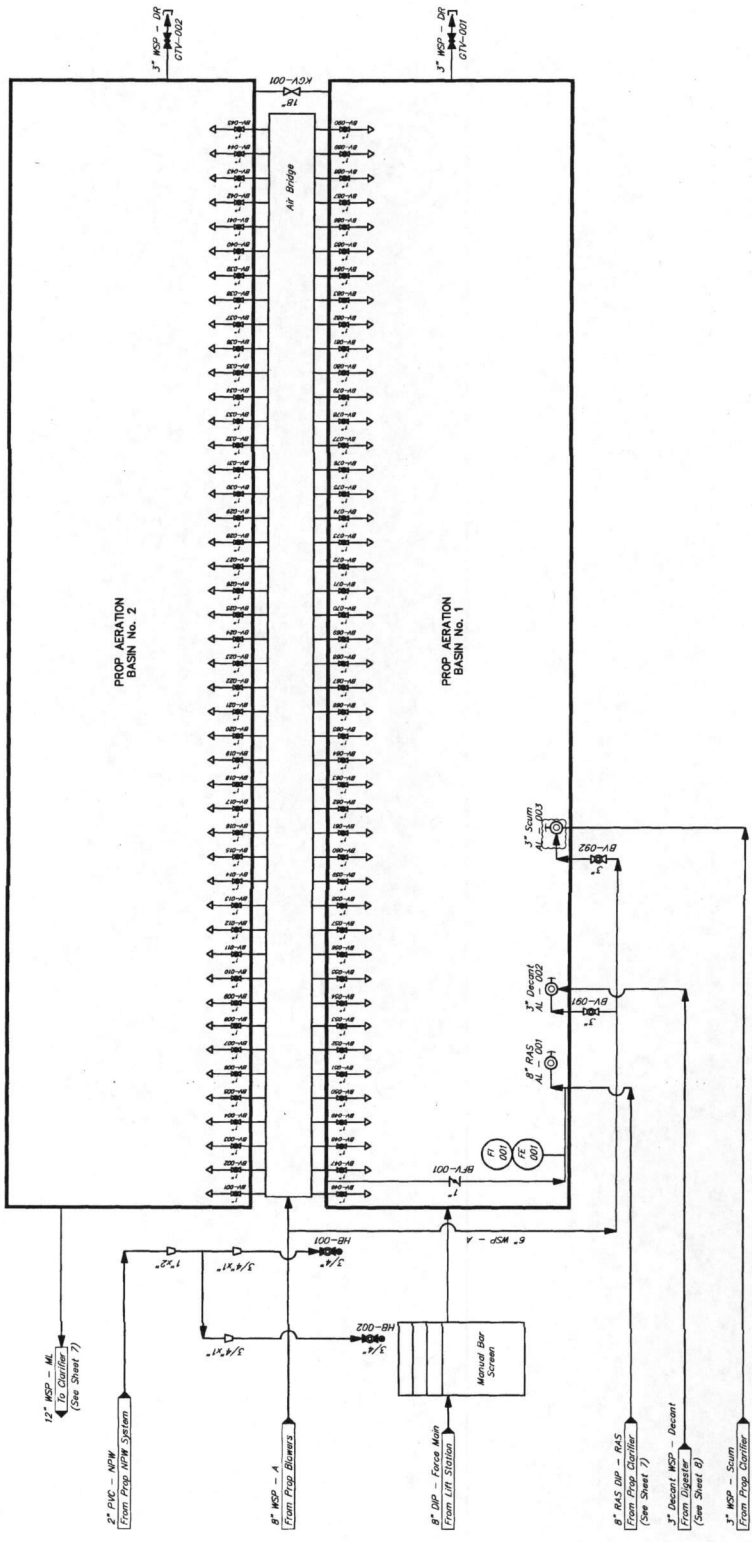
SHEET NO. 4
OF 44

NOTE:
For instrumentation only.
8/21/15

NOTES

- All alarms sent to the outdistler are Normal - Specifications 15013.

Autopipe

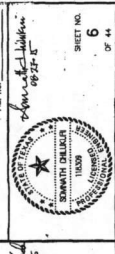


APPROVED: *[Signature]*
 DATE: 11/11/11
 P&ID DEVELOPMENT COORDINATOR

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY JUD. NO. 1340
 FORT BEND COUNTY, TEXAS
 0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT
**PROPOSED
 AERATION BASIN
 P&ID**

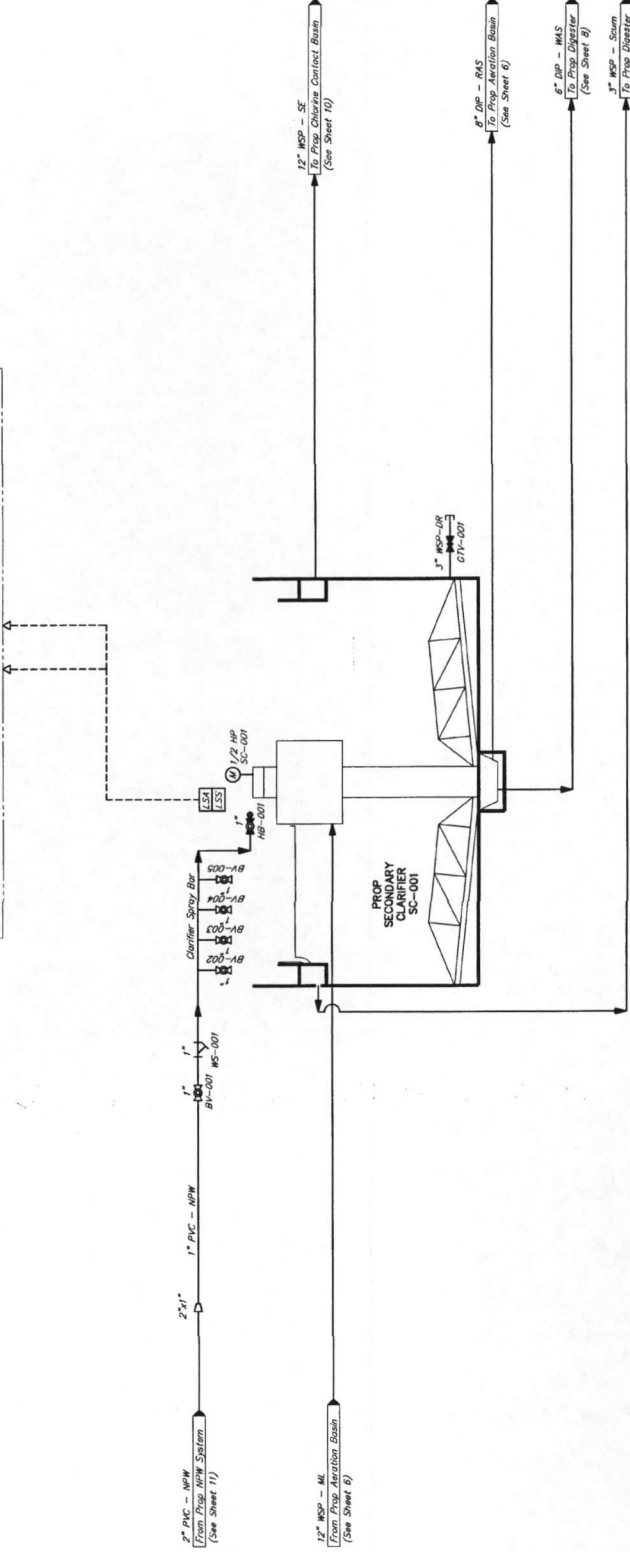
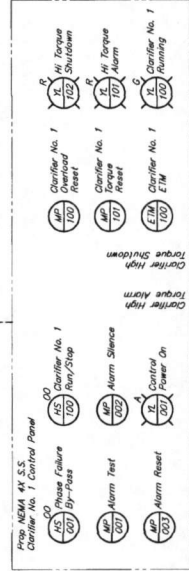
JONES CARTER
 Texas Board of Professional Engineers Registration No. F-59
 6335 Gifford, Suite 200 - Houston, Texas 77051-7173 (313)
 SCALE: AS SHOWN
 DATE: AUGUST 2015
 JOB NO.: 05542-0801-00
 DWG. NO.:
 SHEET NO.:
 SHEET NO. 6 OF 14



NOTES:

- All alarms sent to the outboarder are shown in "Process Control Narratives", Specification 19013.

Outboarder



APPROVED: *[Signature]* PROJECT COORDINATOR
 DATE: 1/14/14

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 1340
 FORT BEND COUNTY, TEXAS
**0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT**
**PROPOSED CLARIFIER
 P&ID**

JONES CARTER
 1333 Spring Valley Road, Houston, Texas 77057-7171, USA
 SCALE: 1/8" = 1'-0"
 DATE: AUGUST 2013
 JOB NO.: 05045-2381-00
 SHEET NO.: 7 OF 43

FOR INSTRUMENTATION ONLY

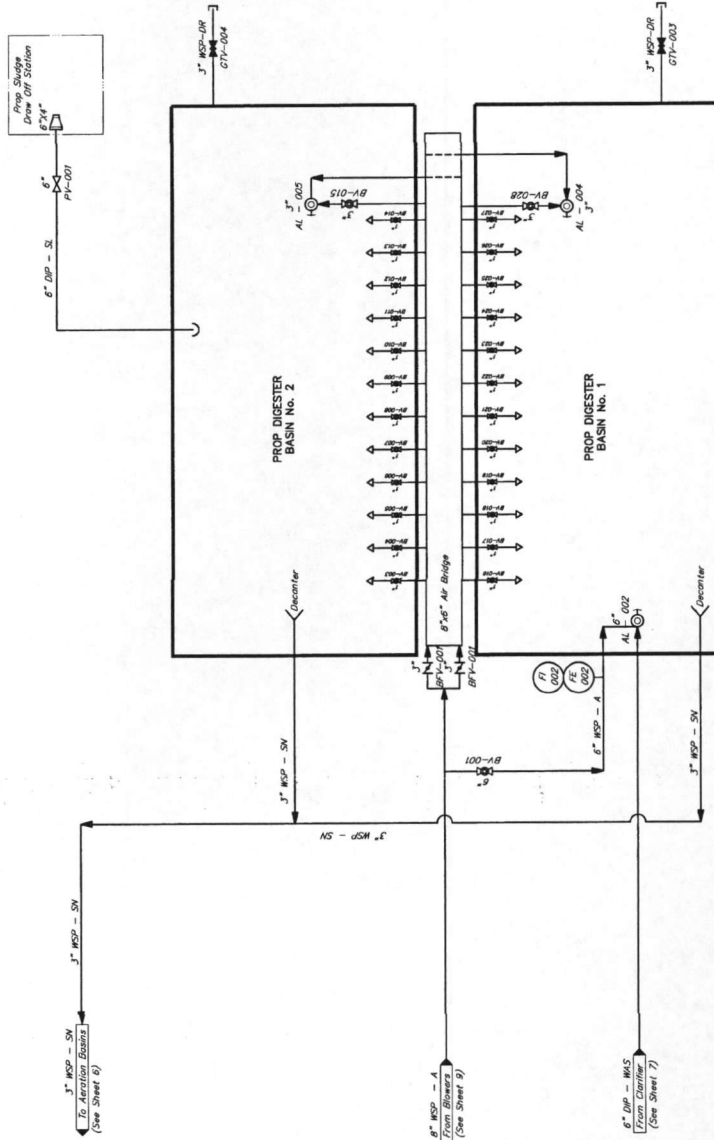
[Signature]
 1/14/14

SEMPER PARATUS
 NATIONAL FIRE PROTECTION ASSOCIATION
 1885 CENTRE STREET
 BOSTON, MA 02112

NOTES:

- All alarms sent to the substation are shown in "Process Control Narrative" Specification 15013.

Author: _____

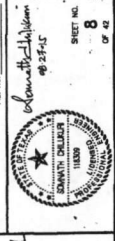


APPROVED: *[Signature]*
 PROJECT SUPERVISOR
 DATE: 11/11/16

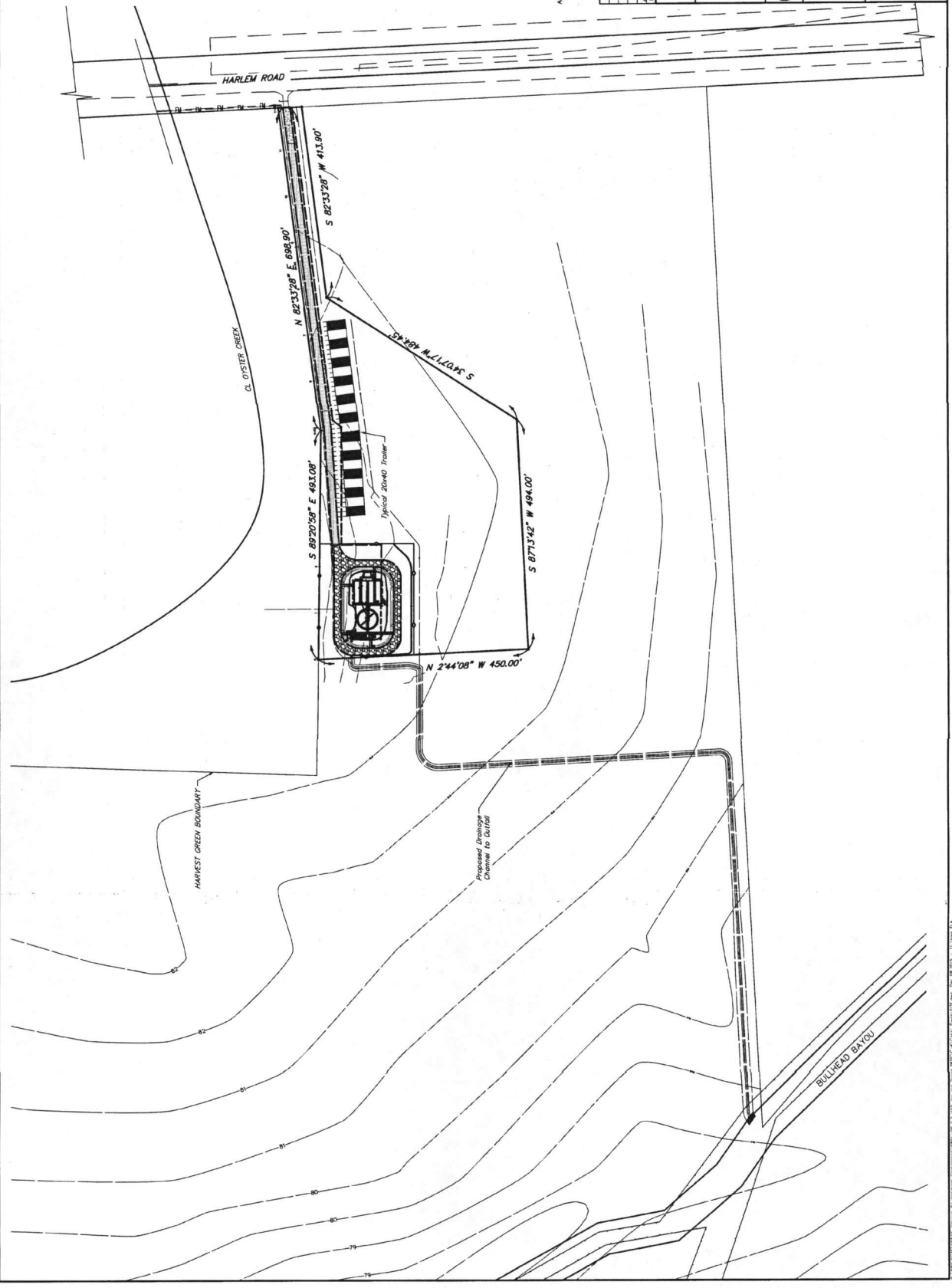
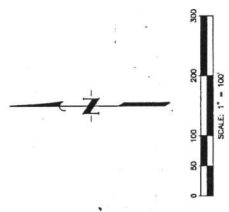
NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 1340
 FORT BEND COUNTY, TEXAS
**0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT
 PROPOSED DIGESTER
 P&ID**

JONES CARTER
 SCALE: 1/8" = 1'-0"
 DATE: AUGUST 2015
 JOB NO.: 05040-0001-00
 SUBMITTED: _____
 F.B. NO.: _____
 DGN. BY: SE
 DWN. BY: J.A.
 DMC. NO.: _____
 SWR. BY: _____



SHEET NO. **8**
 OF **12**



APPROVED: *[Signature]*
 TITLE: PROJECT COORDINATOR
 DATE: 11/14

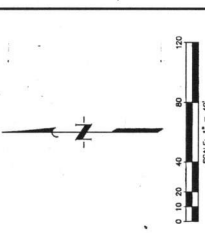
NO.	DATE	REVISIONS
1		ISSUE FOR PERMITS
2		REVISED
3		REVISED

FORT BEND COUNTY MUD No. 134D
 FORT BEND COUNTY, TEXAS
**0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT**
OVERALL SITE LAYOUT

JONES CARTER
 ENGINEERS ARCHITECTS
 1835 Collins Ave. Suite 1000 Houston, Texas 77028 (713) 771-3371
 SCALE: 1/4"=1'-0"
 DATE: AUGUST 2015
 APP NO.: 05510-0001-00
 DRAWN BY: J.L.A.
 CHECKED BY: J.L.A.
 SUBMITTED: 08/23/15

SEAL: *[Signature]*
 08/23/15

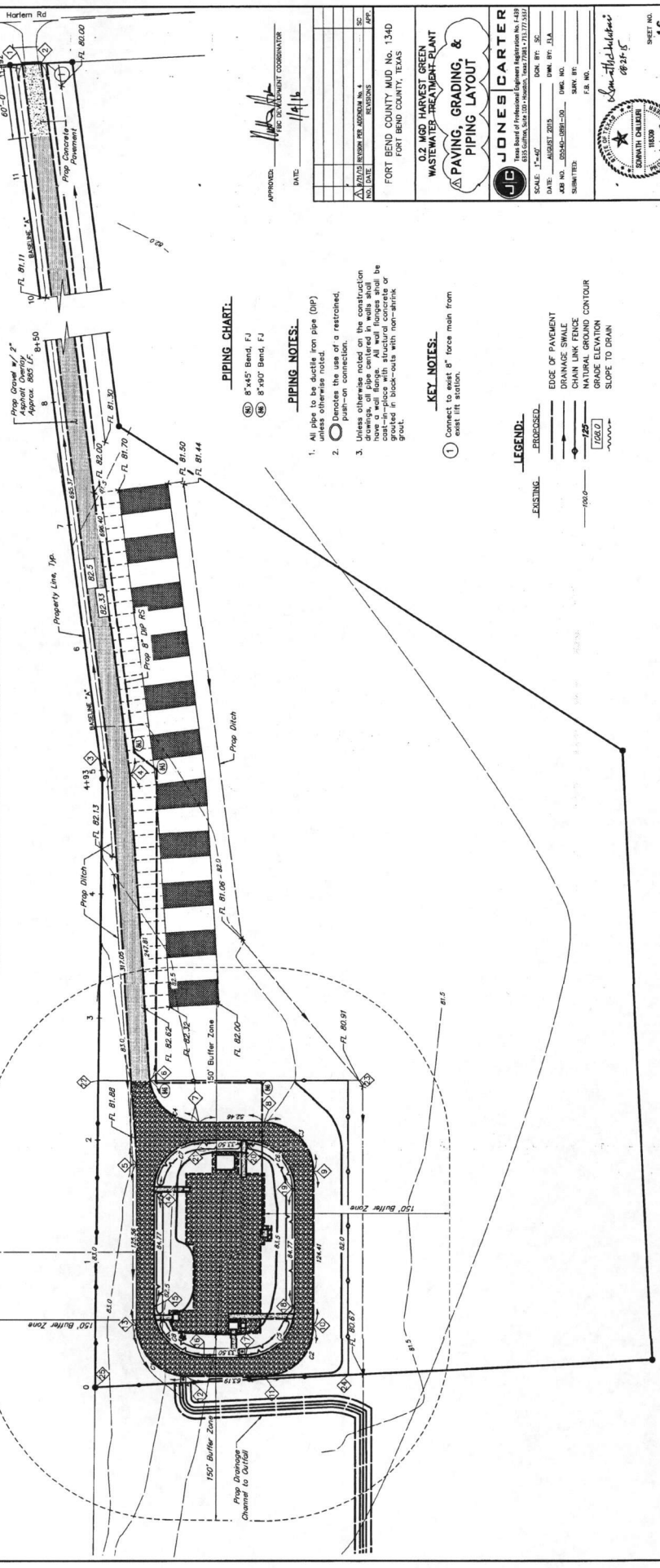
PLANNING AND DESIGN SERVICES CORPORATION (PDS) IS AN EQUAL OPPORTUNITY AND AFFIRMATIVE ACTION EMPLOYER. PDS DOES NOT DISCRIMINATE ON THE BASIS OF RACE, SEX, RELIGION, ETHNICITY, NATIONAL ORIGIN, ANCESTRY, AGE, OR HANDICAP.



STATION OFFSET TABLE

No.	DESCRIPTION	BASELINE "A"	OFFSET	No.	DESCRIPTION	BASELINE "A"	OFFSET
1	NE Corner of Access Road	STA 11+91.18	9.85' RIGHT	1	SE Corner of Access Road	STA 1+60.11	46.08' RIGHT
2	SE Corner of Access Road	STA 11+89.90	24.84' RIGHT	2	SW Corner of Access Road	STA 0+64.44	47.16' RIGHT
3	SW Corner of Access Road	STA 4+95.78	7.21' RIGHT	3	NW Corner of Access Road	STA 0+24.89	87.61' RIGHT
4	NW Corner of Access Road	STA 4+93.50	22.21' RIGHT	4	NW Corner of Access Road	STA 0+25.27	121.12' RIGHT
5	SE Corner of Access Road	STA 1+80.72	31.80' RIGHT	5	SW Corner of Access Road	STA 0+45.72	160.65' RIGHT
6	SE Corner of Access Road	STA 2+44.52	41.74' RIGHT	6	SW Corner of Access Road	STA 1+61.41	138.55' RIGHT
7	S Corner of Access Road	STA 2+15.19	81.46' RIGHT	7	S Corner of Access Road	STA 2+00.94	119.10' RIGHT
8	S Corner of Access Road	STA 2+13.78	133.93' RIGHT	8	N Corner of Access Road	STA 2+00.57	85.62' RIGHT
9	SW Corner of Access Road	STA 1+76.24	174.38' RIGHT	9	NE Corner of Access Road	STA 2+48.17	2.82' RIGHT
10	SW Corner of Access Road	STA 0+50.91	175.61' RIGHT	10	SE Corner of Access Road	STA 2+51.34	201.24' RIGHT
11	NE Corner of Access Road	STA 0+10.48	136.32' RIGHT	11	SE Corner of Access Road	STA 0+12.07	203.96' RIGHT
12	NW Corner of Access Road	STA 0+9.72	73.72' RIGHT	12	NW Corner of Access Road	STA 0+00.00	0'
13	NW Corner of Access Road	STA 0+48.28	33.29' RIGHT				

CURVE	DELTA ANGLE	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING	CHORD LENGTH
C1	90°00'00"	40.0'	62.832'	40.00'	S 45°00'00" W	56.569'
C2	90°00'00"	30.0'	47.124'	30.00'	S 45°00'00" E	42.426'
C3	90°00'00"	40.0'	62.832'	40.0'	N 45°00'00" E	56.569'
C4	88°39'37"	40.0'	61.897'	39.075'	N 38°28'09" E	55.903'
C5	90°00'00"	40.0'	62.832'	40.0'	S 45°00'00" E	56.569'
C6	90°00'00"	40.0'	62.832'	40.0'	N 45°00'00" E	56.569'
C7	90°00'00"	40.0'	62.832'	40.0'	S 45°00'00" W	56.569'
C8	90°00'00"	40.0'	62.832'	40.0'	S 45°00'00" W	56.569'



PIPING CHART

- ⊗ 8" x 45" Bend, FJ
- ⊗ 8" x 90° Bend, FJ

PIPING NOTES

1. All pipe to be ductile iron pipe (DIP) unless otherwise noted.
2. ⊙ Denotes the use of a restrained, push-on connection.
3. Unless otherwise noted on the construction drawings, all pipe fittings shall be standard, full-strength fittings or gaskets in black-steel with non-saline gaskets.

KEY NOTES

- ① Contact to exist 8" force main from next lift station.

LEGEND

- - - - - EXISTING
- - - - - PROPOSED
- EDGE OF PAVEMENT
- DRAINAGE SWALE
- CHAIN LINK FENCE
- NATURAL GROUND CONTOUR
- GRADE ELEVATION
- SLOPE TO DRAIN

APPROVED: _____ DATE: 1/1/16

FOR PROJECT COORDINATOR

DATE	1/1/16
BY	JJC
CHECKED	JJC
DATE	1/1/16
BY	JJC
CHECKED	JJC

FORT BEND COUNTY MUD No. 134D
FORT BEND COUNTY, TEXAS

0.2 MGD HARVEST GREEN
WASTEWATER TREATMENT PLANT
PAVING, GRADING, &
PIPING LAYOUT

JONES CARTER
1818 West 19th Street, Suite 100, Fort Worth, TX 76107
TEL: 817.339.3333 FAX: 817.339.3333

SCALE: 1"=40'
DATE: AUGUST 2013
JOB NO.: 05240-0081-00
DRAWN BY: JJC
CHECKED BY: JJC
DATE: 1/1/16

16
OF 44

SHEET NO.

DATE: 08/21/15

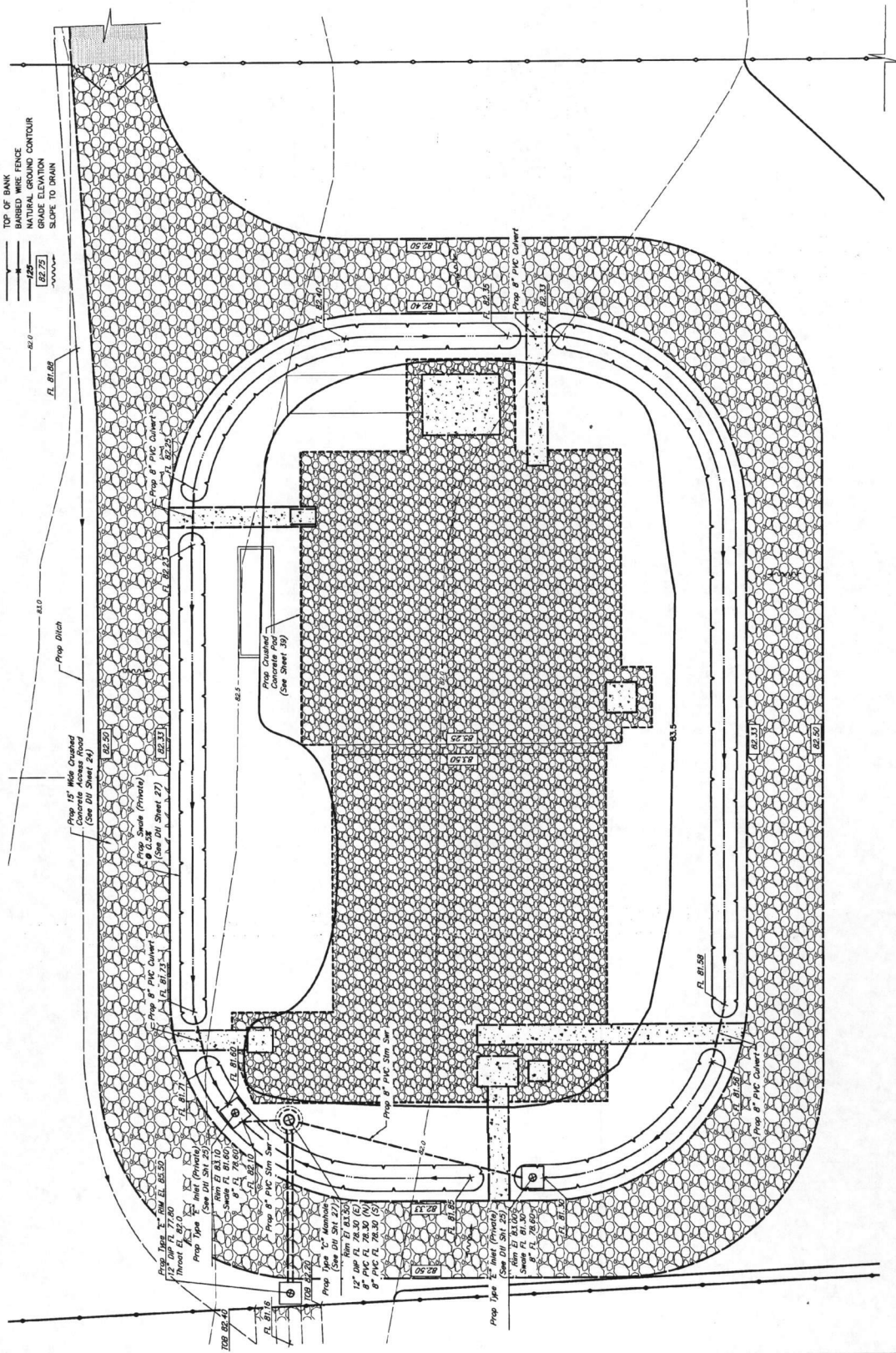
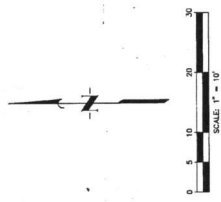
BY: JJC

FOR: JONES CARTER

PLANNING CONSULTANTS, L.P. 10000 Katy Road, Suite 100, Houston, TX 77024-1100

LEGEND:

- EXISTING:**
- EDGE OF PAVEMENT
 - DRAINAGE SWALE
 - CHAIN LINK FENCE
 - TOP OF BANK
 - BARBED WIRE FENCE
 - NATURAL GROUND CONTOUR
 - EXISTING DRAIN
 - SLOPE TO DRAIN
- PROPOSED:**
- EDGE OF PAVEMENT
 - DRAINAGE SWALE
 - CHAIN LINK FENCE
 - TOP OF BANK
 - BARBED WIRE FENCE
 - NATURAL GROUND CONTOUR
 - EXISTING DRAIN
 - SLOPE TO DRAIN



APPROVED: *[Signature]*
 PROJECT SUPERVISOR
 DATE: 1/14/16

NO.	DATE	REVISIONS	BY

FORT BEND COUNTY MUD NO. 1340
 FORT BEND COUNTY, TEXAS

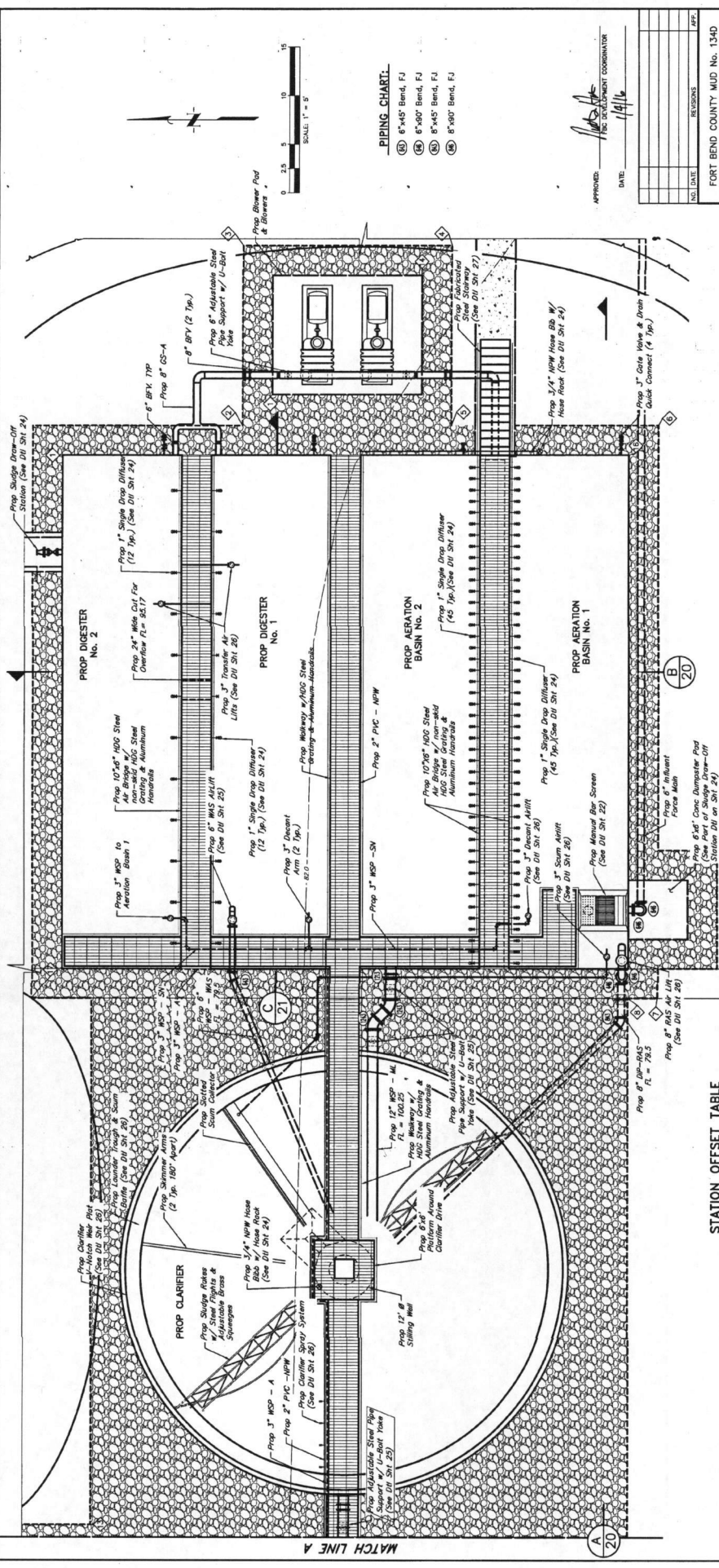
**0.2 MGd HARVEST GREEN
 WASTEWATER TREATMENT PLANT
 SITE GRADING &
 DRAINAGE**

JONES CARTER
 CIVIL ENGINEERS
 3311 GREENWAY BLVD., SUITE 100, HOUSTON, TEXAS 77057-7331
 PHONE: 281.485.2200 FAX: 281.485.2201
 WWW.JONESCARTER.COM

SCALE: 1"=50'
 DATE: AUGUST 2015 DWA BY: JJA
 JOB NO.: 05-045-0081-00 DWG. NO.:
 SUBMITTED: SURV. BY: F.B. NO.:
 SHEET NO. 17 OF 44

[Signature]
 08-23-15

SEAL: STATE OF TEXAS
 CIVIL ENGINEER
 NUMBER 18808



- PIPING CHART**
- ③ 8" x 45' Bend, FJ
 - ④ 8" x 90' Bend, FJ
 - ⑤ 8" x 45' Bend, FJ
 - ⑥ 8" x 90' Bend, FJ

APPROVED: _____
 DATE: 1/14/16

NO. DATE	REVISIONS	APD

FORT BEND COUNTY, MUD NO. 134D
 FORT BEND COUNTY, TEXAS

**0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT**

**ENLARGED SITE LAYOUT 1
 SHEET 1 OF 2**

JONES CARTER
 1000 West 19th Street, Suite 100, Houston, Texas 77058
 PHONE: 713.773.7373

SCALE: 1"=5'
 DATE: AUGUST 2015
 JOB NO.: 05540-2801-00
 SUBMITTED: _____
 DRAWN BY: JG
 CHECKED BY: JLA
 DESIGNED BY: JLA
 SURV. BY: _____
 F.B. NO.: _____

SEAN WITHAM
 08/25/15

SEAN WITHAM
 08/25/15

SEAN WITHAM
 08/25/15

SHEET NO. 18
 OF 44

STATION OFFSET TABLE

No.	DESCRIPTION	BASELINE "A"	OFFSET	DESCRIPTION	BASELINE "A"	OFFSET
①	NE Corner of Digester No. 2	STA 11-70.28	74.77' RIGHT	NW Corner of Cured Concrete Pad	STA 04-62.04	79.07' RIGHT
②	SE Corner of Cured Concrete	STA 11-73.49	92.83' RIGHT	SE Corner of Blower Pad	STA 14-88.82	110.66' RIGHT
③	NE Corner of Cured Concrete Pad	STA 11-91.61	92.62' RIGHT	NW Corner of Blower Pad	STA 14-76.65	93.79' RIGHT
④	SE Corner of Cured Concrete Pad	STA 11-91.85	113.63' RIGHT	S Corner of Aeration Basin No. 1	STA 14-70.93	131.77' RIGHT
⑤	SW Corner of Cured Concrete Pad	STA 11-73.73	113.85' RIGHT	NW Corner of Aeration Basin No. 2	STA 14-16.29	75.39' RIGHT
⑥	SE Corner of Cured Concrete Pad	STA 11-73.96	134.73' RIGHT	SE Corner of S.L. Building	STA 04-53.45	115.36' RIGHT
⑦	SW Corner of Cured Concrete Pad	STA 11-15.97	135.39' RIGHT	SE Corner of Eyewash Station	STA 04-52.52	121.36' RIGHT
⑧	SW Corner of Cured Concrete Pad	STA 11-15.93	132.39' RIGHT	NW Corner of Eyewash Station	STA 04-48.47	117.43' RIGHT
⑨	NW Corner of Cured Concrete Pad	STA 04-44.85	133.20' RIGHT			
⑩	SE Corner of Cured Concrete Pad	STA 04-43.86	83.69' RIGHT			
⑪	SE Corner of Cured Concrete Pad	STA 04-54.31	59.35' RIGHT			
⑫	NE Corner of Cured Concrete Pad	STA 04-61.81	48.13' RIGHT			

1/16/2015 09:56:00 Jones Carter Corporation 08/25/15 0.2 MGD Harvest Green WWT Treatment Plant S15.dwg, 18 of 44

PIPING CHART:

- (E) 8" Flexible Expansion Joint, FJ
- (B) 8"x80" Bend, POBE
- (D) 8" Butterfly Valve, FJ

PIPING NOTES:

1. All pipe to be ductile iron pipe (DIP)
2. Flanges to be restrained, push-on connection.
3. Unless otherwise noted on the construction drawings, all pipe centered in walls shall be cast-in-place with structural concrete or grouted in block-outs with non-shrink grout.
4. All gaskets on air piping must be heat rated to 350° F.

APPROVED: *[Signature]*
 PROJECT COORDINATOR
 DATE: 11/16

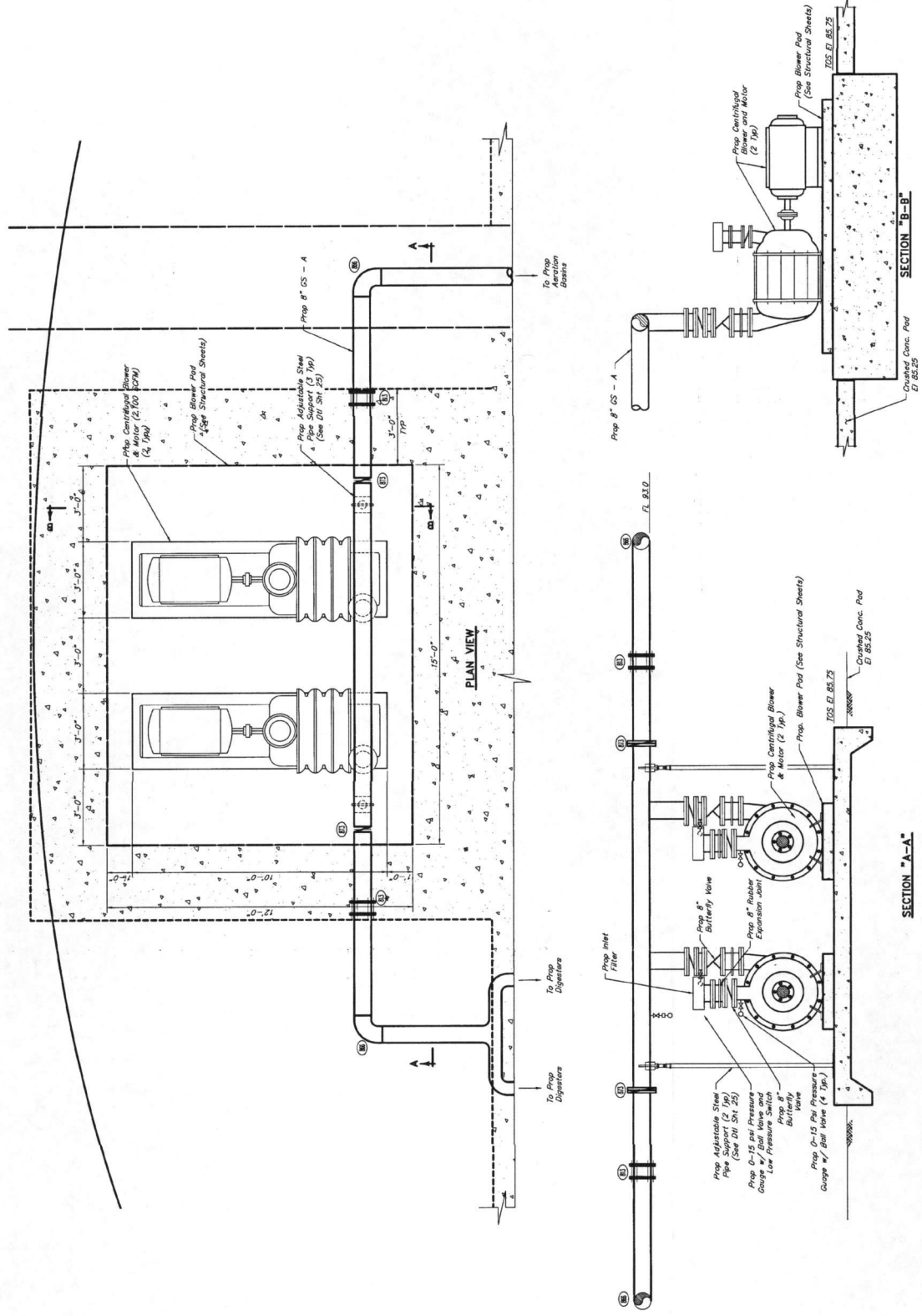
NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD NO. 1340
 FORT BEND COUNTY, TEXAS
**0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT
 PROPOSED BLOWER
 FACILITIES**

JONES CARTER
 1001 JONES BLVD., SUITE 100, FORT BEND COUNTY, TEXAS 77437-1737
 DATE: 11/16/16 DWN. BY: EJA
 JOB NO.: 05542-0001-00 DWN. NO.:
 SUBMITTED: SURV. BY:
 F.R. NO.:
 88191-G

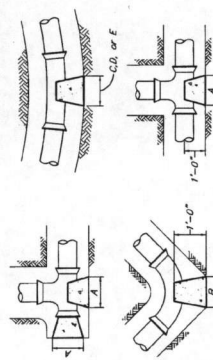


SHEET NO. 23 OF 44



PROPOSED BLOWER PAD PLAN
 SCALE: 1/2"=1'-0"

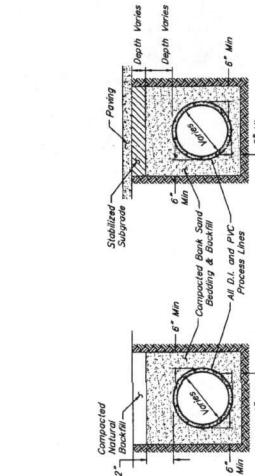
PROJECT: 05542-0001-00 0.2 MGD Harvest Green Wastewater Treatment Plant, Fort Bend County, Texas. SHEET: 23 OF 44



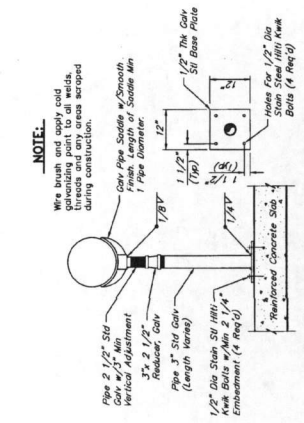
PIPE SIZE	A	B	C	D	E
12"	30"	30"	30"	30"	30"
14"	30"	30"	30"	30"	30"
16"	30"	30"	30"	30"	30"
18"	30"	30"	30"	30"	30"
20"	30"	30"	30"	30"	30"
22"	30"	30"	30"	30"	30"
24"	30"	30"	30"	30"	30"
26"	30"	30"	30"	30"	30"
28"	30"	30"	30"	30"	30"
30"	30"	30"	30"	30"	30"
32"	30"	30"	30"	30"	30"
34"	30"	30"	30"	30"	30"
36"	30"	30"	30"	30"	30"
38"	30"	30"	30"	30"	30"
40"	30"	30"	30"	30"	30"
42"	30"	30"	30"	30"	30"
44"	30"	30"	30"	30"	30"
46"	30"	30"	30"	30"	30"
48"	30"	30"	30"	30"	30"
50"	30"	30"	30"	30"	30"

- NOTES:**
1. Heights of all blocks shall be equal to "A", "B", "C", "D", or "E" dimension called for.
 2. All concrete to be poured against firm, undisturbed soil.

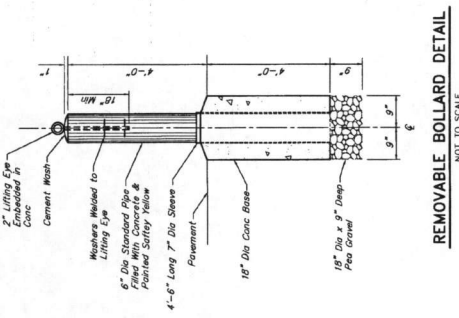
THRUST BLOCK DETAILS
NOT TO SCALE



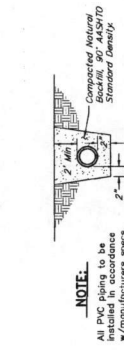
CLASS "C" BEDDING FOR PLANT PROCESS PIPING DETAIL
NOT TO SCALE



- NOTE:**
1. Wire brush and apply cold galvanizing paint to all welds.
 2. All pipe supports located on compacted sand bedding with a minimum thickness of 12" Min. Vertical Adjustment (4 Req'd).

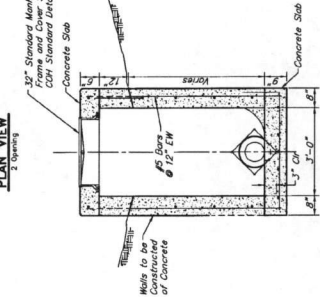
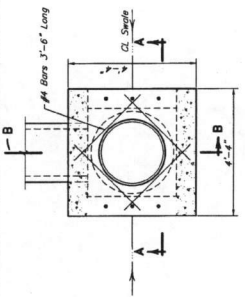


REMOVABLE BOLLARD DETAIL
NOT TO SCALE

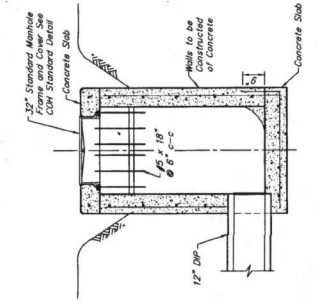


- NOTE:**
1. All pipe supports shall be installed in accordance w/manufacturer's specs.

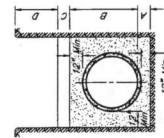
BEDDING FOR SMALL DIAMETER (<math><3\"/>



SECTION "A-A"
NOT TO SCALE



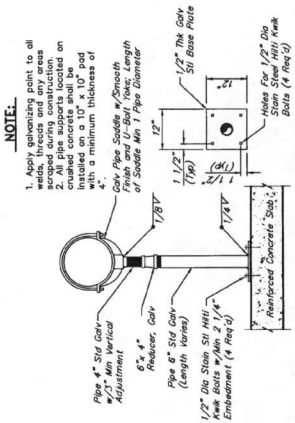
SECTION "B-B"
NOT TO SCALE



CLASS "AA" BEDDING FOR PIPE SEWERS
NOT TO SCALE

- LEGEND:**
- A - Cement stabilized sand placed before pipe is laid up to flowing of pipe or above (minimum depth 12").
 - B - Cement stabilized sand, thoroughly riddled, placed after pipe is laid.
 - C - Earth fill placed same day pipe is laid.
 - D - Earth fill placed next day (or later) after pipe is laid.

6" ADJUSTABLE STEEL PIPE SUPPORT WITH U-BOLT YOKE
NOT TO SCALE



- NOTE:**
1. Apply galvanizing paint to all welds.
 2. All pipe supports located on compacted sand bedding with a minimum thickness of 12" Min. Vertical Adjustment (4 Req'd).

ADJUSTABLE STEEL PIPE SUPPORT
NOT TO SCALE

APPROVED: *[Signature]*
DATE: 1/1/16
PROJECT COORDINATOR

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY JUD. NO. 1340
FORT BEND COUNTY, TEXAS

0.2 MGD HARVEST GREEN
WASTEWATER TREATMENT PLANT

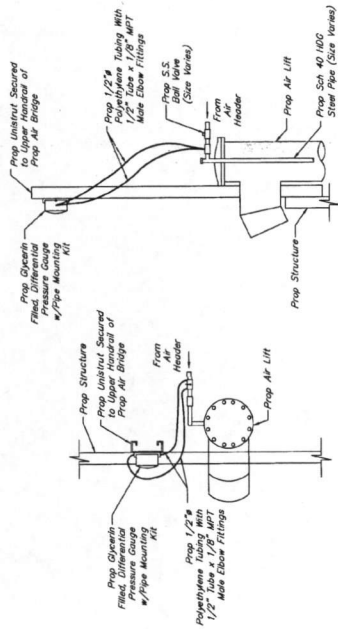
MISCELLANEOUS DETAILS
SHEET 2 OF 4

JONES CARTER
1335 LAMAR AVE. SUITE 100 HOUSTON, TEXAS 77057-2337
DATE: AUGUST 2015
JOB NO. 055450-0001-50
SUBMITTED: 08/12/15
SCALE: AS SHOWN
DWN. BY: JLA
CHK. BY: JLA
SURV. NO.:
F.A. NO.:

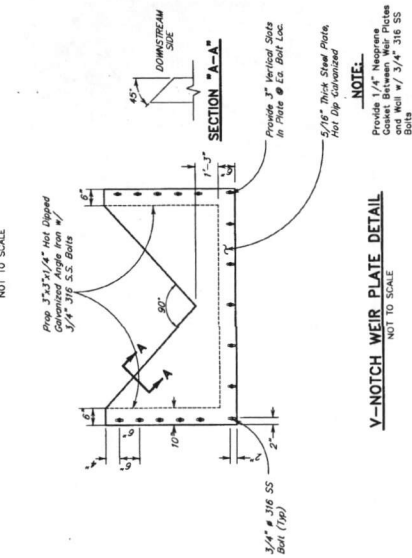
SHEET NO. 25
OF 44

SUMMIT COUNTY ENGINEER
11839
Professional Seal

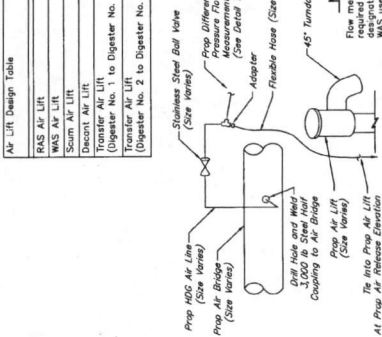
Flow Capacity (gpm)	Flow Capacity (ft ³ /min)	Flow Capacity (m ³ /min)	Flow Capacity (m ³ /hr)	Flow Capacity (m ³ /day)	Flow Capacity (m ³ /year)
221	3.68	0.22	5.21	125.04	4562.70
100	1.67	0.10	2.38	531.60	1937.70
50	0.83	0.05	1.19	265.80	968.85
25	0.42	0.02	0.59	132.90	484.42
10	0.17	0.01	0.24	53.16	193.77
5	0.08	0.00	0.12	26.58	96.89
2	0.03	0.00	0.05	10.63	387.51



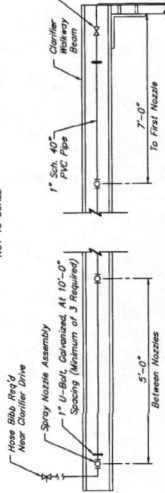
AIR LIFT PUMP - FLOW MEASUREMENT DETAIL
NOT TO SCALE



V-NOTCH WEIR PLATE DETAIL
NOT TO SCALE



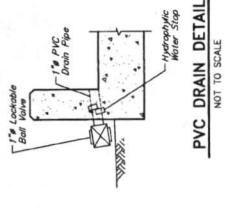
AIR LIFT PUMP - AIR SUPPLY LINE
NOT TO SCALE



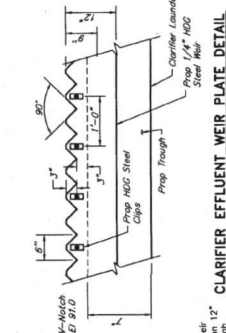
CLARIFIER SPRAY SYSTEM DETAIL
NOT TO SCALE

Flow Capacity Air Requirements

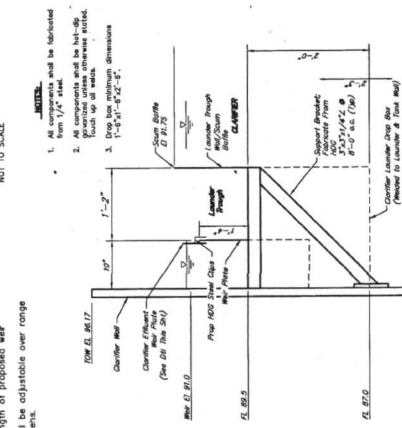
Flow Capacity (gpm)	Flow Capacity (ft ³ /min)	Flow Capacity (m ³ /min)	Flow Capacity (m ³ /hr)	Flow Capacity (m ³ /day)	Flow Capacity (m ³ /year)
221	3.68	0.22	5.21	125.04	4562.70
100	1.67	0.10	2.38	531.60	1937.70
50	0.83	0.05	1.19	265.80	968.85
25	0.42	0.02	0.59	132.90	484.42
10	0.17	0.01	0.24	53.16	193.77
5	0.08	0.00	0.12	26.58	96.89
2	0.03	0.00	0.05	10.63	387.51



PVC DRAIN DETAIL
NOT TO SCALE



CLARIFIER EFFLUENT WEIR PLATE DETAIL
NOT TO SCALE

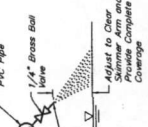


CLARIFIER LAUNDER DETAIL
NOT TO SCALE

NOTES:
1. All HMG steel will be hot-dip galvanized.
2. All components will be hot-dip galvanized.
3. Drop box minimum dimensions: 1'-0\"/>

NOTES:
Flow measurement only designated for RAS or WAS use.

NOTES:
Provide 1/2\"/>



SPRAY NOZZLE ASSEMBLY DETAIL
NOT TO SCALE

GENERAL NOTES FOR STRUCTURES AND CONNECTIONS

- ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AISC STEEL CONSTRUCTION MANUAL AND THE AISC DESIGN GUIDE FOR CONNECTIONS.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.
- ALL CONNECTIONS SHALL BE DESIGNED FOR THE FULL SERVICE LIFE OF THE STRUCTURE.

CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS WITH CURB TYPE STREETS

DRAWN BY: L. BRECKEN
DATE: 08-14-04
APPROVED BY: L. BRECKEN
DATE: 08-14-04
FBC-025B

FORT BEND COUNTY ENGINEERING DEPARTMENT

CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS WITH CURB TYPE STREETS

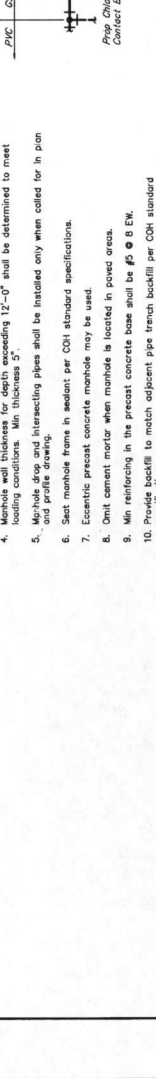
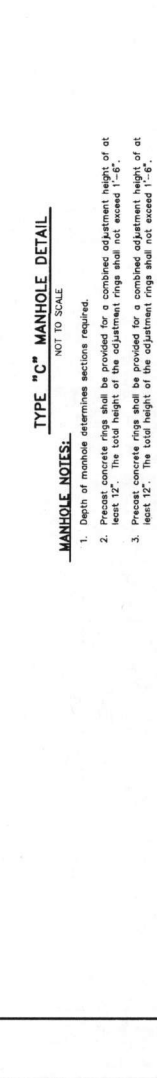
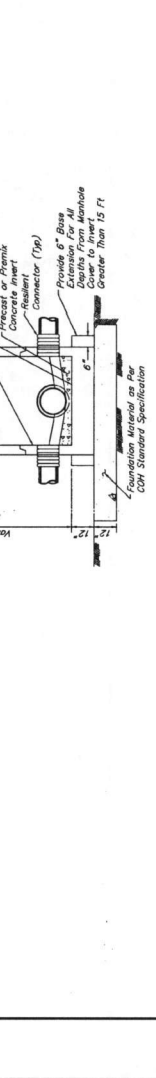
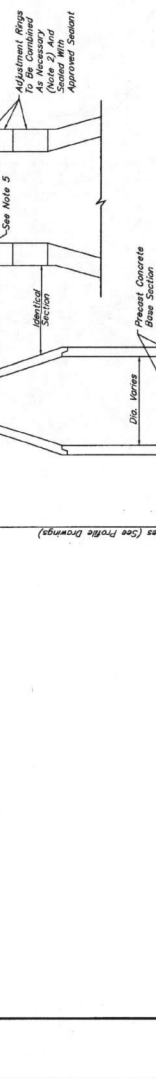
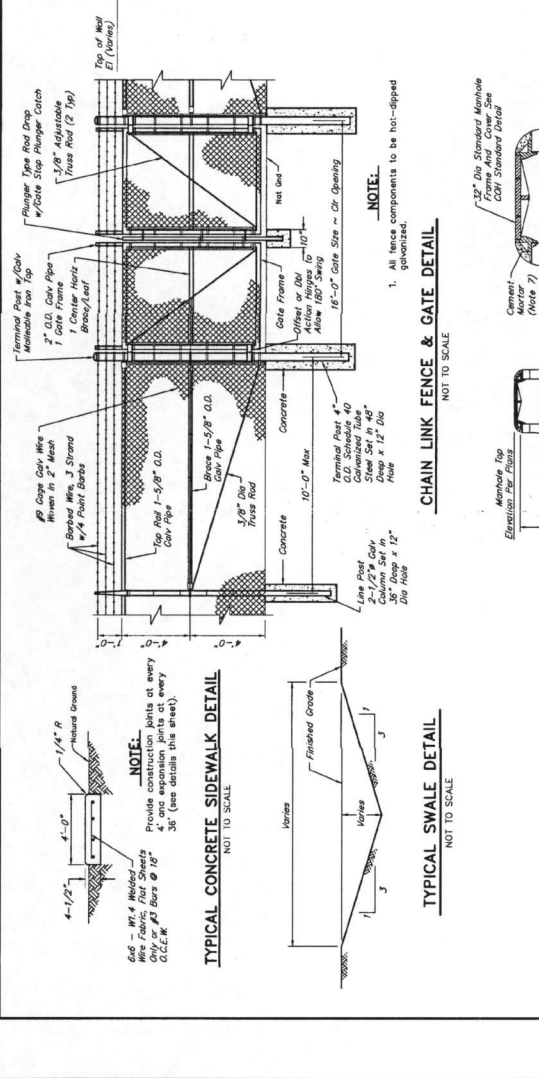
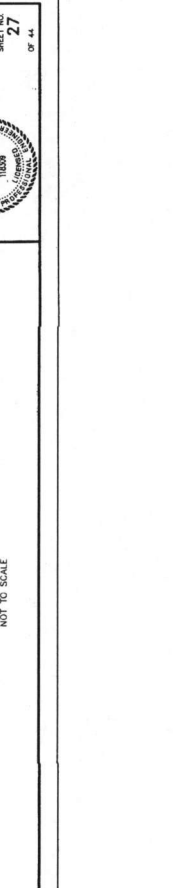
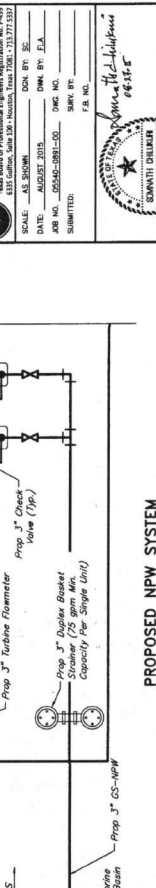
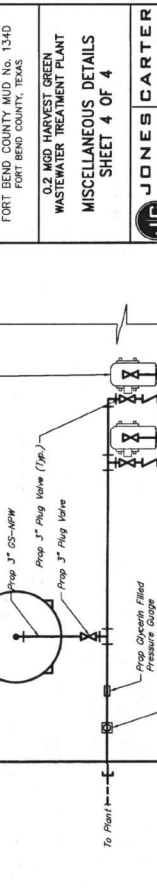
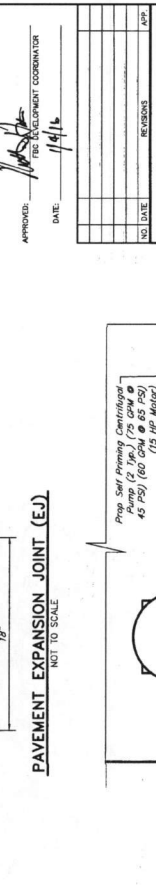
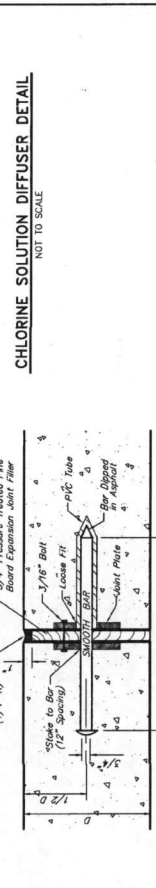
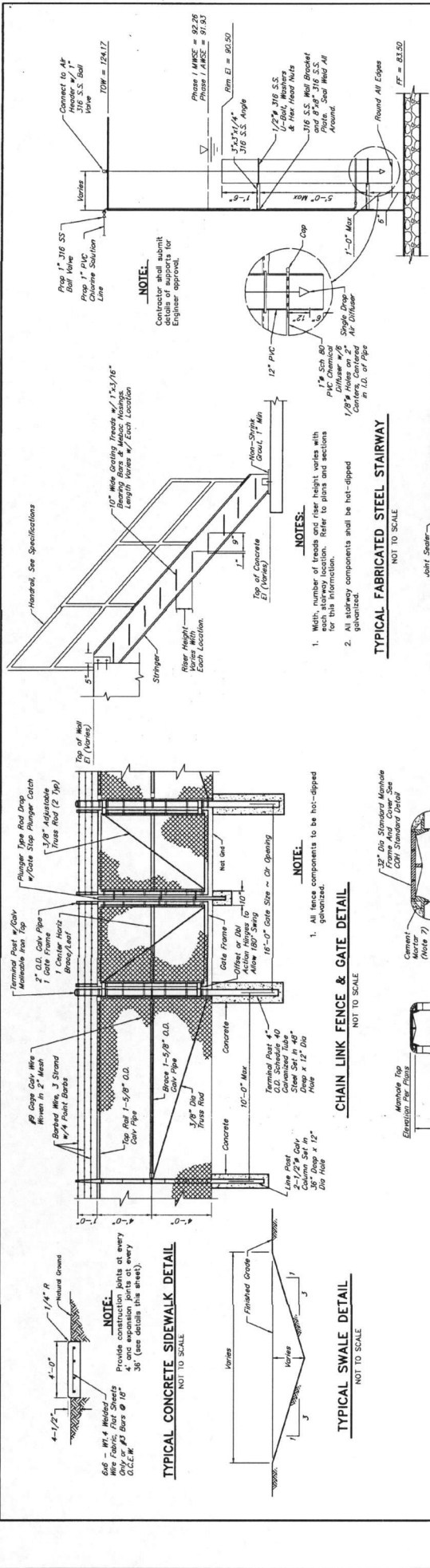
DRAWN BY: L. BRECKEN
DATE: 08-14-04
APPROVED BY: L. BRECKEN
DATE: 08-14-04
FBC-025B

FORT BEND COUNTY ENGINEERING DEPARTMENT

CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS WITH CURB TYPE STREETS

DRAWN BY: L. BRECKEN
DATE: 08-14-04
APPROVED BY: L. BRECKEN
DATE: 08-14-04
FBC-025B

FORT BEND COUNTY ENGINEERING DEPARTMENT



APPROVED: *[Signature]* DATE: 1/16/16
FEB. DEVELOPMENT COORDINATOR

NO. DATE	REVISIONS

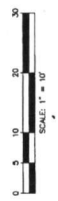
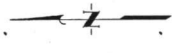
02 MGD HARVEST GREEN
WASTEWATER TREATMENT PLANT
MISCELLANEOUS DETAILS
SHEET 4 OF 4

JONES CARTER
Texas Board of Professional Engineering Registration No. 4489
1313 Eastway, Suite 120 Houston, Texas 77060-2537 (713) 357-1333

SCALE: AS SHOWN
DATE: 1/16/16
JOB NO. 020404-0001-02
SHEET NO. 27
SUBMITTED: 1/16/16
F.B. NO. 06-515-E

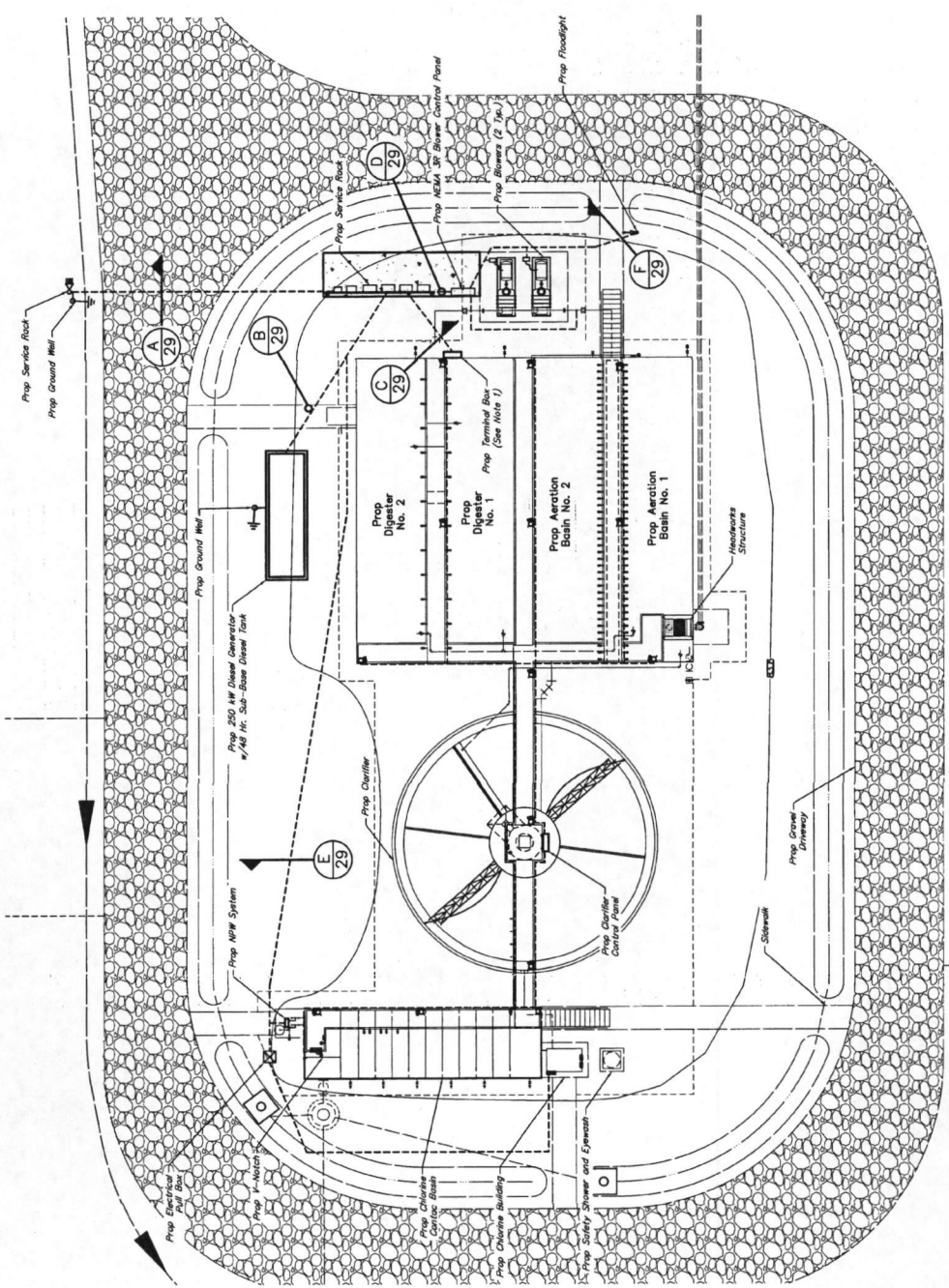
SEAL: *[Signature]*
SMITH CHALKER
15030
Professional Engineer

SHEET NO. 27
OF 44



NOTES:

- The City Web Contractor shall install a 3/4" x 3/4" x 12" NEMA 3R terminal box with terminal blocks. Terminate all conduit conductors in this terminal box. All Lights and Receptacles, and Phase 1 Flowmeter at box. Terminate all conductors in terminal blocks inside terminal box. All conductors shall be terminated in terminal blocks inside terminal box. Contractor shall terminate their part of 600 Volts and 100 Amps. The Licensee shall terminate their part of 600 Volts and 100 Amps. The Licensee shall consult with the City Engineer and consult with conductors from terminal box to field devices along Phase 1 Plant.
- All service rack equipment shall have at least one (1) service rack equipment to the front edge of the slab.



APPROVED: *[Signature]*
 PROJECT MANAGER / COORDINATOR
 DATE: 1/14/14

NO. DATE	REVISIONS	APP.

FORT BEND COUNTY MUD NO. 1340
 FORT BEND COUNTY, TEXAS
 0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT
ELECTRICAL SITE LAYOUT

JONES CARTER
 3333 S. Highway 290, Houston, Texas 77058 | 281.731.7137

SCALE: 1" = 10'-0"
 DATE: AUGUST 2013
 DWG. BY: JLA
 APP. NO.: 05542-0811-00
 DWG. NO.:
 SUBMITTED:
 F.B. NO.:
 3/1/14

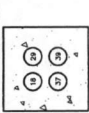
SHEET NO. **29**
 OF 44

INTEGRITY E. LARER
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 NO. 10867

ELECTRICAL OVERALL SITE LAYOUT
SCALE: 1" = 10'-0"

NO.	SIZE & CONDUCTORS	DESCRIPTION	ORIGIN	DESTINATION
1	1" C. W/2-600 MW + #2/0 NEU	INCOMING UTILITY POWER	MEANWEGAD	MAIN DISCONNECT
2	1" C. W/2-600 MW + #2/0 NEU + #2/0 GND	MAIN SERVICE	MAIN DISCONNECT	AUTOMATIC TRANSFER SWITCH
3	1" C. W/2-600 MW + #2/0 NEU + #2/0 GND	GENERATOR POWER	GENERATOR	AUTOMATIC TRANSFER SWITCH
4	1 1/2" C. W/3-#14 + #12 GND	GENERATOR ANNUNCIATOR	GENERATOR	AUTOMATIC TRANSFER SWITCH
5	1" C. W/2-#6 + #8 NEU + #8 GND	GENERATOR MISC. POWER	LPA	GENERATOR LIGHTING PANEL
6	1 1/2" C. W/2-500 MW + #2/0 GND	SERVICE SWITCHBOARD POWER	SERVICE SWITCHBOARD	GENERATOR LIGHTING PANEL
7	1" C. W/2-500 MW + #2/0 GND	BLOWER CONTROL PANEL POWER	SERVICE DISTRIBUTION PANEL	BLOWERS CONTROL PANEL
8	2 1/2" C. W/2-#2/0 + #8 GND	BLOWER No. 1 POWER	BLOWERS CONTROL PANEL	BLOWER No. 1 LOCAL CONTROL PANEL
9	2 1/2" C. W/2-#2/0 + #8 GND	BLOWER No. 2 POWER	BLOWERS CONTROL PANEL	BLOWER No. 2 LOCAL CONTROL PANEL
10	1" C. W/4-#12 + #8 GND + #12 GND	BLOWER No. 3 POWER	BLOWERS CONTROL PANEL	BLOWER No. 3 LOCAL CONTROL PANEL LOCATION
11	1" C. W/4-#12 + #8 GND + #12 GND	BLOWER No. 3 STUB UP	BLOWERS CONTROL PANEL	BLOWER No. 3 LOCAL CONTROL PANEL LOCATION
12	NOT USED			
13	NOT USED			
14	NOT USED			
15	NOT USED			
16	NOT USED			
17	1" C. W/6-#14 + #12 GND	BLOWER CONTROL PANEL ALARMS	BLOWER No. 3 STUB UP	BLOWER No. 3 LOCAL CONTROL PANEL
18	1" C. W/3-#10 + 2-#14 + #12 GND	CLARIFIER No. 1 CONTROL PANEL POWER	BLOWERS CONTROL PANEL	AUTODIALER GUTTER
19	1" C. W/3-#12 + 4-#14 + #12 GND	CLARIFIER No. 1 POWER & CONTROLS	CLARIFIER No. 1 DISCONNECT	CLARIFIER No. 1 CONTROL PANEL
20	1" C. W/3-#10 + 2-#14 + #12 GND	NFW SYSTEM CONTROL PANEL POWER	CLARIFIER No. 1 CONTROL PANEL	CLARIFIER No. 1 CONTROL PANEL
21	1" C. W/3-#12 + #12 GND	NFW SYSTEM CONTROL PANEL POWER	CLARIFIER No. 1 DISCONNECT	CLARIFIER No. 1 CONTROL PANEL
22	1" C. W/3-#12 + #12 GND	NFW SYSTEM CONTROL PANEL POWER	NFW SYSTEM DISCONNECT	NFW SYSTEM CONTROL PANEL
23	1 1/2" C. W/2-#6 + #8 GND	TRANSFORMER POWER	NFW SYSTEM CONTROL PANEL	NFW PUMP No. 1
24	1 1/2" C. W/2-#6 + #8 GND	LPA POWER	TRANSFORMER DISCONNECT	NFW PUMP No. 2
25	1" C. W/2-#14 + #12 GND	BLOWER HEADER PRESSURE SWITCH No. 1	TRANSFORMER	TRANSFORMER
26	1" C. W/ANNUNCIATOR CABLE	ANNUNCIATOR	LPA	LPA
27	1" C. W/26-#14 + #12 GND	AUTODIALER ALARM SIGNALS	PRESSURE SWITCH No. 1	AUTODIALER GUTTER
28	1" C. W/4-#12 + #12 GND	LIGHTING CONTACTOR POWER	AUTODIALER TRANSFER SWITCH	ANNUNCIATOR ENCLOSURE
29	1" C. W/8-#12 + #12 GND	PLANT LIGHTING & RECEPTACLES	AUTODIALER TRANSFER SWITCH	AUTODIALER
30	1" C. W/2-#12 + #12 GND	AUTODIALER POWER	LPA	LIGHTING CONTACTOR ENCLOSURE
31	1" C. W/2-#6 + #8 GND	CHLORINE ROOM PANEL POWER	LPA AND LIGHTING CONTACTOR	PLANT LIGHTING & RECEPTACLES
32	1" C. W/2-#12 + #12 GND	CHLORINE ROOM LIGHTING	LPA	AUTODIALER ENCLOSURE
33	1" C. W/2-#12 + #12 GND	CHLORINE ROOM RECEPTACLES	CHLORINE ROOM LIGHTING PANEL	CHLORINE ROOM LIGHTING PANEL
34	1" C. W/2-#12 + #12 GND	CHLORINATORS POWER	CHLORINE ROOM LIGHTING PANEL	CHLORINE ROOM LIGHTS
35	1" C. W/2-#12 + #12 GND	LEAK DETECTION SYSTEM	CHLORINE ROOM LIGHTING PANEL	CHLORINE ROOM RECEPTACLES
36	1" C. W/2-#12 + #12 GND	ISOLATOR PANEL POWER	CHLORINE ROOM LIGHTING PANEL	CHLORINATORS
37	1" C. W/2-#12 + #12 GND	FLOWMETER POWER	CHLORINE ROOM LIGHTING PANEL	LEAK DETECTION SYSTEM
38	1" C. W/8 SH. PR.	SPARE CONDUIT	FLOWMETER	ISOLATOR CONTROL PANEL
39	1" E.C. W/PULL STRING	TELEPHONE CONDUIT	ISOLATOR CONTROL PANEL	ISOLATOR CONTROL PANEL
40	1" E.C. W/PULL STRING	CHLORINE ROOM ALARMS	SERVICE ENTRANCE	ISOLATOR CONTROL PANEL
41	1" C. W/4-#14 + #12 GND	FLOODLIGHT POWER	CHLORINE ROOM	AUTODIALER GUTTER
42	1" C. W/4-#14 + #12 GND	GENERATOR ALARMS	LPA	AUTODIALER GUTTER
43	1" C. W/4-#14 + #12 GND		AUTOMATIC TRANSFER SWITCH	FLOODLIGHT
44				AUTODIALER

CONDUIT SCHEDULE



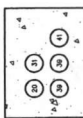
A SECTION 29 NTS



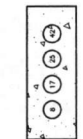
B SECTION 29 NTS



C SECTION 29 NTS



D SECTION 29 NTS



E SECTION 29 NTS



F SECTION 29 NTS



G SECTION 29 NTS

DUCT BANK SECTIONS
NOT TO SCALE

APPROVED: *[Signature]*
DATE: 1/4/11

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD No. 134D
FORT BEND COUNTY, TEXAS

0.2 MGD HARVEST GREEN
WASTEWATER TREATMENT PLANT
ELECTRICAL CONDUIT
SCHEDULE & DUCT BANK
DETAILS

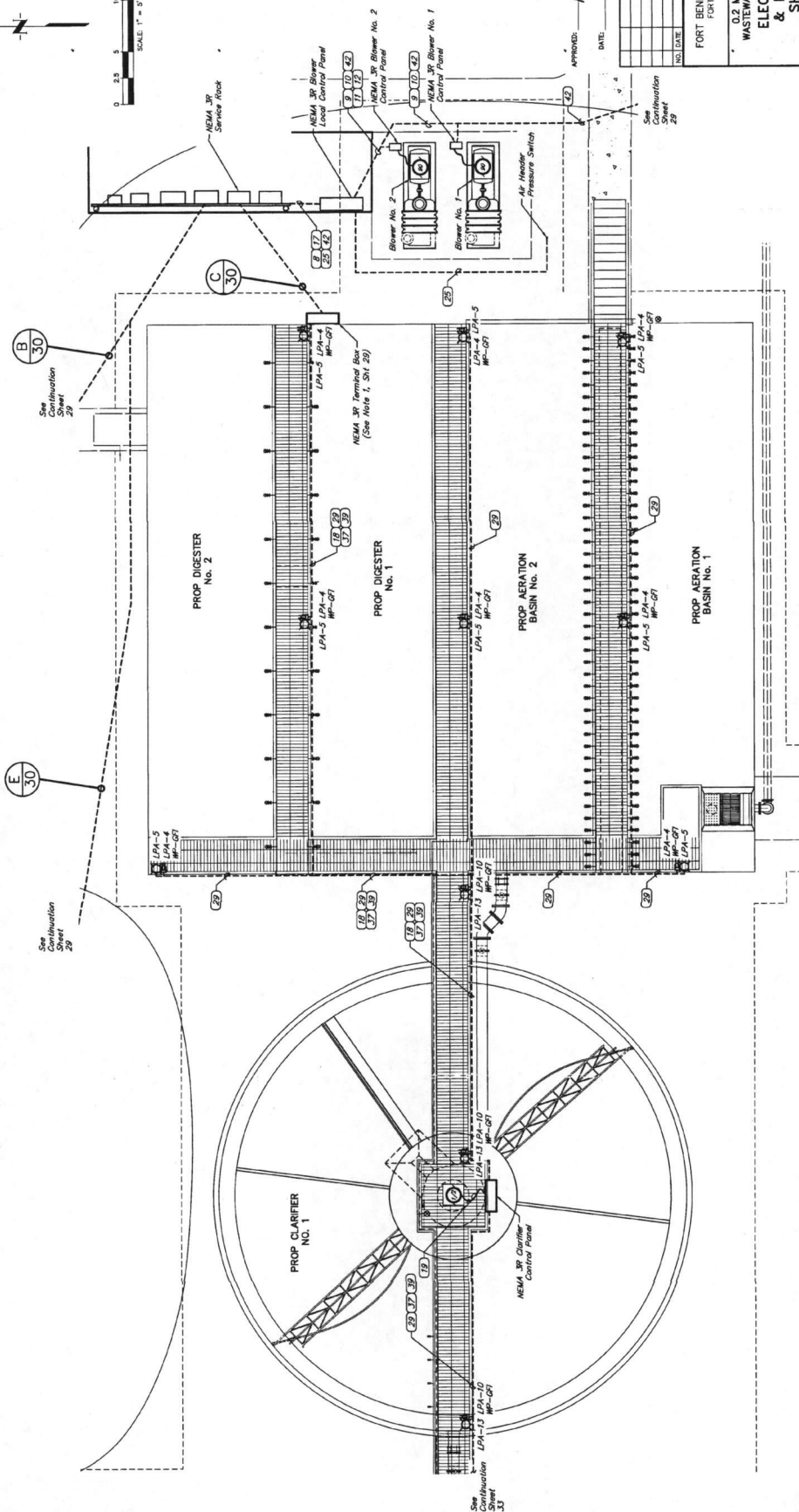
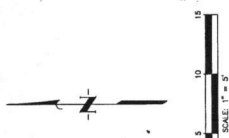
JONES CARTER
11000 Westchase Parkway, Suite 1000, Houston, Texas 77036
TEL: 281.416.1000 FAX: 281.416.1001

SCALE: AS SHOWN DOW. BY: MEL
DATE: AUGUST 2015 DWN. BY: ELA
JOB NO.: 05842-2001-00 DWA. NO.:
SUBMITTED: SURV. BY:
F.B. NO.:

APPROVED: *[Signature]* 1/4/11
MUTUAL E. LAMAR
18870

SHEET NO. 30
OF 44

CONFORMED DOCUMENTS



ELECTRICAL POWER & LIGHTING PLAN
SCALE: 1" = 5'-0"

APPROVED: *[Signature]*
DATE: 1/14/16
PROJECT COORDINATOR

NO.	DATE	REVISIONS	APP.

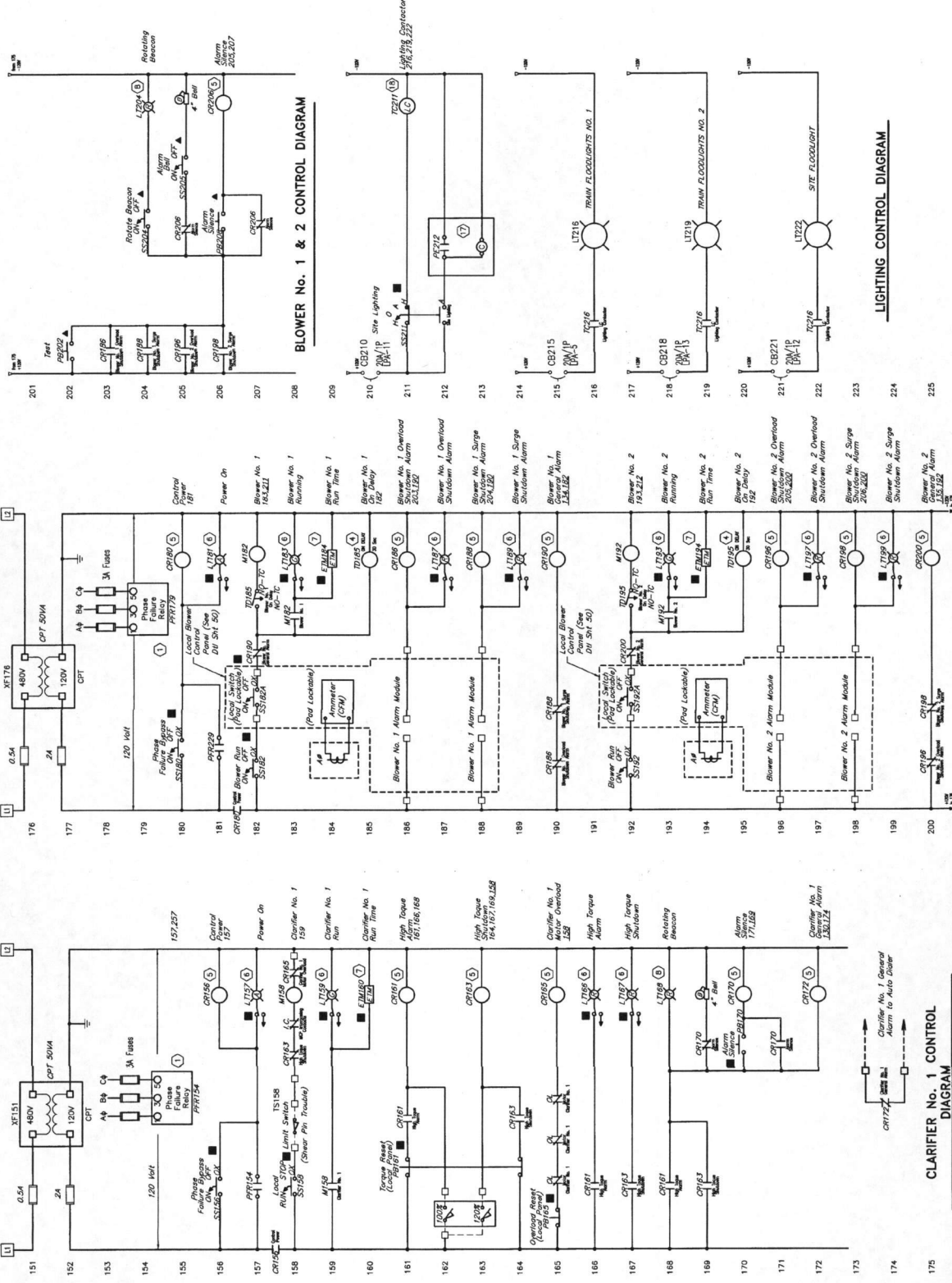
FORT BEND COUNTY MUD No. 134D
FORT BEND COUNTY, TEXAS
0.2 MGD HARVEST GREEN
WASTEWATER TREATMENT PLANT
ELECTRICAL POWER
& LIGHTING PLAN
SHEET 1 OF 2

JONES CARTER
An Equal Opportunity Employer
10000 Katy Road, Suite 1000, Houston, TX 77055
Tel: 281.416.1000 Fax: 281.416.1001
SCALE: 1"=5'-0" DSN BY: MEL
DATE: AUGUST 2015 DWN BY: DLA
JOB NO. 05540-0981-05 DWG. NO. _____
SUBMITTED: _____ SURV. BY: _____
F.B. NO. _____



SHEET NO. 32
OF 44

PROJECT/CUSTOMER: Harvest Green Wastewater Treatment Plant, 10000 Katy Road, Houston, TX 77055. DATE: 08/2015. 11:50am '16



BLOWER NO. 1 & 2 CONTROL DIAGRAM

LIGHTING CONTROL DIAGRAM

CLARIFIER NO. 1 CONTROL DIAGRAM

APPROVED: *[Signature]* PROJECT COORDINATOR
 DATE: 11/16

NO.	DATE	REVISIONS	APP.

0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT
 ELECTRICAL
 CONTROL DIAGRAM
 SHEET 1 OF 2

JONES CARTER
 Jones Carter is a Division of Professional Engineers, Inc. License No. 13173333
 DATE: AUGUST 2015 DWN BY: EJA
 JOB NO. 05540-0881-00 DWG. NO. SUBMITTED: F.B. NO.

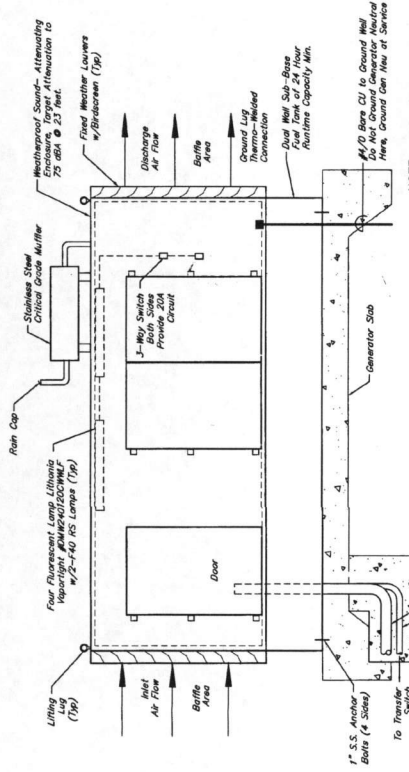
SCALE: AS SHOWN
 DATE: AUGUST 2015 DWN BY: EJA
 JOB NO. 05540-0881-00 DWG. NO. SUBMITTED: F.B. NO.

34
 OF 44

PROJECT: 05540-0881-00 WWT Treatment Plant Electrical Control Diagram SHEET 1 OF 2
 DATE: 11/16/15
 DRAWN BY: EJA
 CHECKED BY: JLC
 APPROVED BY: [Signature]

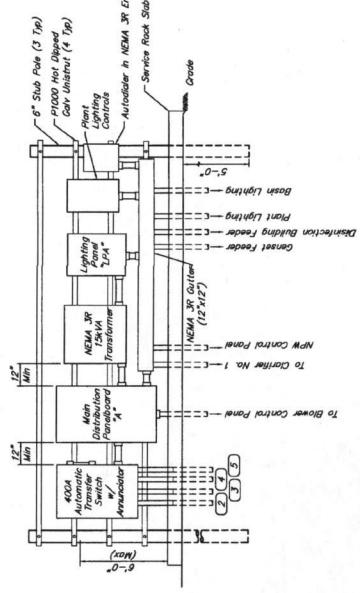
NOTES:

- All hardware to be Stainless Steel.
- All enclosures to be NEMA 3R.
- Contractor shall install one (1) with generator with weather-resistant cover to the Service Rack.
- Contractor shall provide ATS with a minimum of 4 six outlets to signal generator start. The generator shall be used to start, run, and stop the lift, pump, non potable water pump and generator. The generator shall be operating while under generator power.

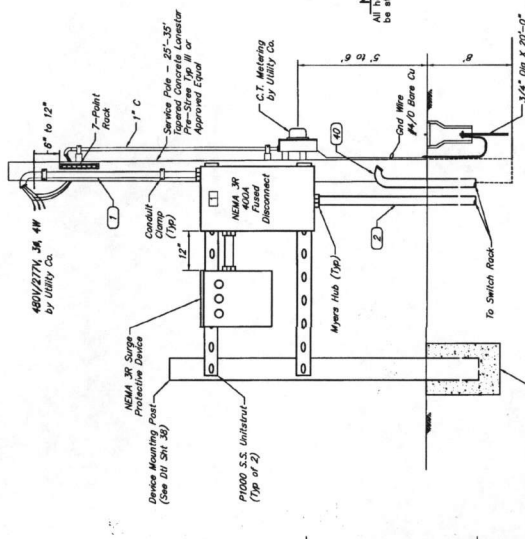


NOTE:
Installation shown is typical. Consult sub-up location, manufacturer's literature and specifications for details. Installation may vary according to generator manufacturer. Verify installation accordingly. All exterior generator equipment shall be protected from weather through piping and weather shall be stainless steel.

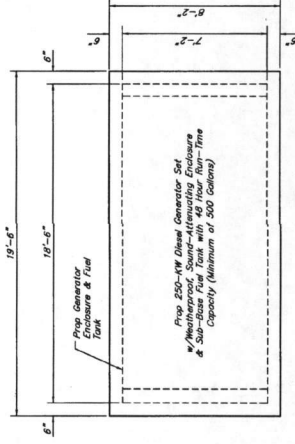
GENERATOR INSTALLATION DETAIL
NOT TO SCALE



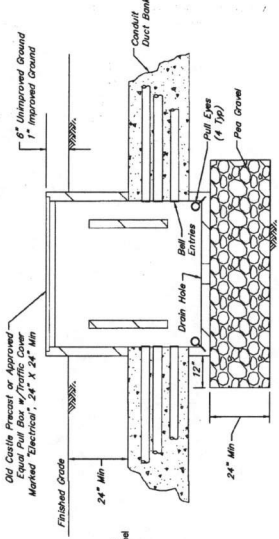
SWITCH RACK DETAIL
NOT TO SCALE



SERVICE RACK DETAIL
NOT TO SCALE



GENERATOR SLAB DETAIL
NOT TO SCALE



ELECTRICAL PULL BOX INSTALLATION
NOT TO SCALE

APPROVED: *[Signature]*
DATE: 1/14/14

NO. DATE	REVISIONS	ASD

FORT BEND COUNTY MUD No. 134D
FORT BEND COUNTY, TEXAS

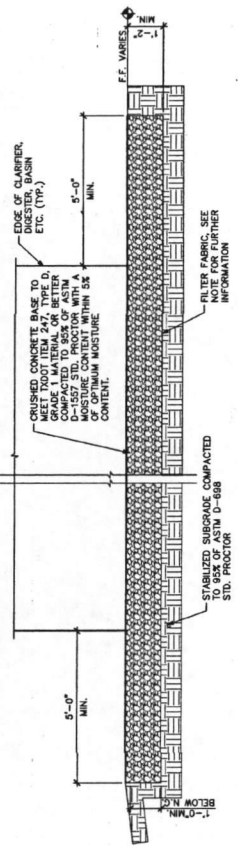
G. J. HANEST GREEN
WASTEWATER TREATMENT PLANT
ELECTRICAL DETAILS
SHEET 1 OF 3

JONES CARTER
Texas Board of Professional Engineers Registration No. 1443
Professional Engineer License No. 121712323
U.S. State License No. 121712323
SCALE: AS SHOWN
DATE: AUGUST 2013
JOB NO. 20040-0885-00
SUBMITTED: DWG. BY: JEA
DWG. NO.: 20040-0885-00
DWG. PLOT: JEA
F.B. NO.:
PROJECT NO.:
SHEET NO. 36
OF 44

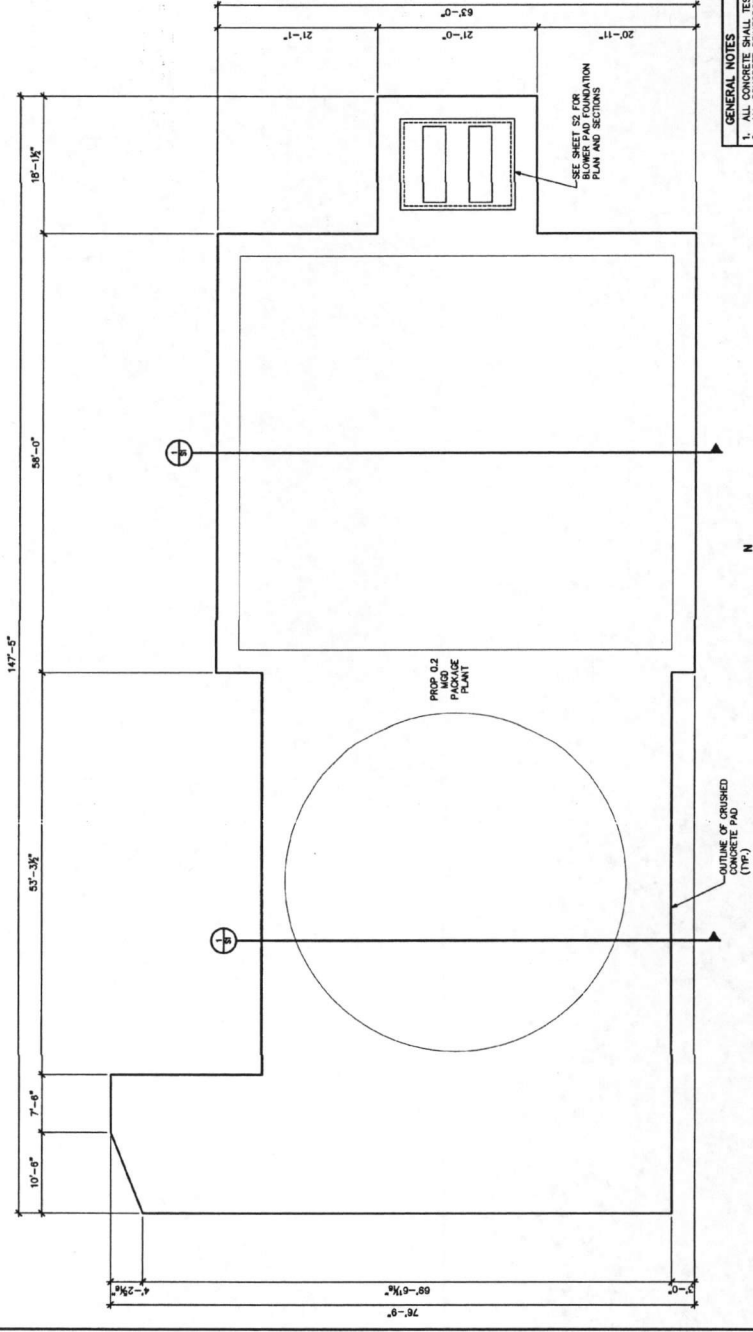
NOTE: ALL SOFT AREAS SHALL BE REMOVED & REPLACED WITH STRUCTURAL FILL. ALL FOUNDATION MATERIALS SHALL BE REMOVED FROM THE SLOPE.

NOTE: FILTER FABRIC PROPERTIES: MINIMUM THICKNESS 0.5 MM, BREAKING STRENGTH 150 KG/70CM, PORE SIZE = 0.2MM

NOTE: CRUSHED CONCRETE BASE TO BE 1" MIN. BELOW FINISH GRADE. 1" MATERIAL OR BETTER, COMPACTED TO 95% OF ASTM MOISTURE CONTENT WITHIN 15% OF ASTM MOISTURE CONTENT.



1 TYPICAL FOUNDATION DETAIL FOR PACKAGE PLANT TRAIN
SI 1/2-1-0



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"
NOTE: DIMENSIONS SHOWN SHALL BE VERIFIED W/ FINAL EQUIPMENT PLACEMENT

GENERAL NOTES:
1. ALL CONCRETE SHALL TEST 4000 PSI AT 28 DAYS.
2. ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
3. ALL CONCRETE REINFORCING BARS SHALL BE PROVIDED WITH DEVELOPMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH AC-308 LATEST EDITION.
4. USE ALL CONTINUOUS REINFORCING BARS 50 DIAMETERS AT SPICES, TEES, AND CORNERS.
5. USE 1" OF REINFORCING BARS TO FACILITATE THE BENDING OF REINFORCING BARS WILL NOT BE PERMITTED.
6. NO ENGINEERING DRAWING MAY BE REPRODUCED FOR USE AS SHOP DRAWINGS.

SH STANLEY SPURLING & HAMILTON, INC.
Consulting, Engineering, Architecture
13001 Aldine Street, Suite 200 Houston, Texas 77027
Phone 281-779-8433 FAX 281-779-8438
E-MAIL: INFO@SHINC.NET OFF: 010-0119

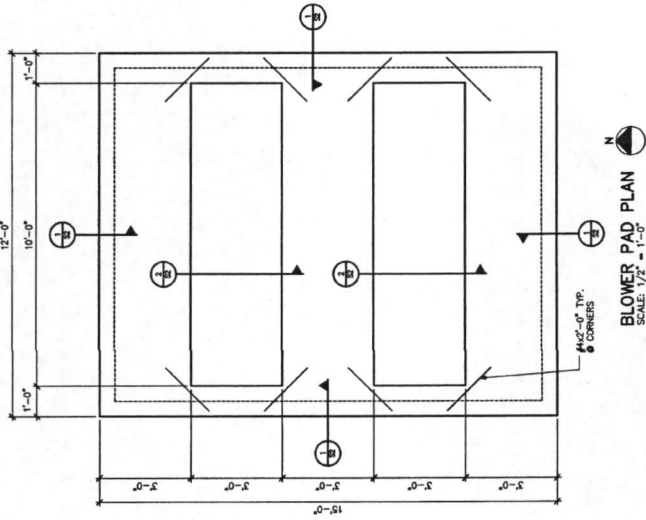
0.2 MGD - HARVEST GREEN
WASTE WATER TREATMENT PLANT
STRUCTURAL CRUSHED
CONCRETE PAD PLAN
AND SECTION

FORT BEND COUNTY M.U.D. No. 134D
FORT BEND COUNTY, TEXAS

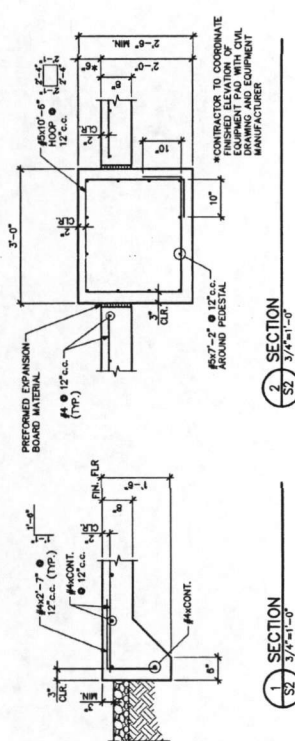
JONES CARTER
Texas Board of Professional Engineers Registration No. 4489
Professional Engineer License No. 12127/2121

SCALE: AS SHOWN DWG. BY: JG
DATE: 08-26-15 DWG. BY: JA
JOB NO. 0802-1118 DWG. NO. 0802-1118-01
SUBMITTED: SWK, PK
F.B. NO.

SHEET NO. 39 OF 42



BLOWER PAD PLAN
SCALE: 1/2" = 1'-0"



SH STANLEY SPURLING & HAMILTON, INC.
Consulting Engineering Services
1310 Lake Street, Suite 200 Houston, Texas 77027
Phone 713-776-8433 Fax 713-776-8435
E-MAIL: SPURLOCK@SHINC.COM

NO.	DATE	APP.

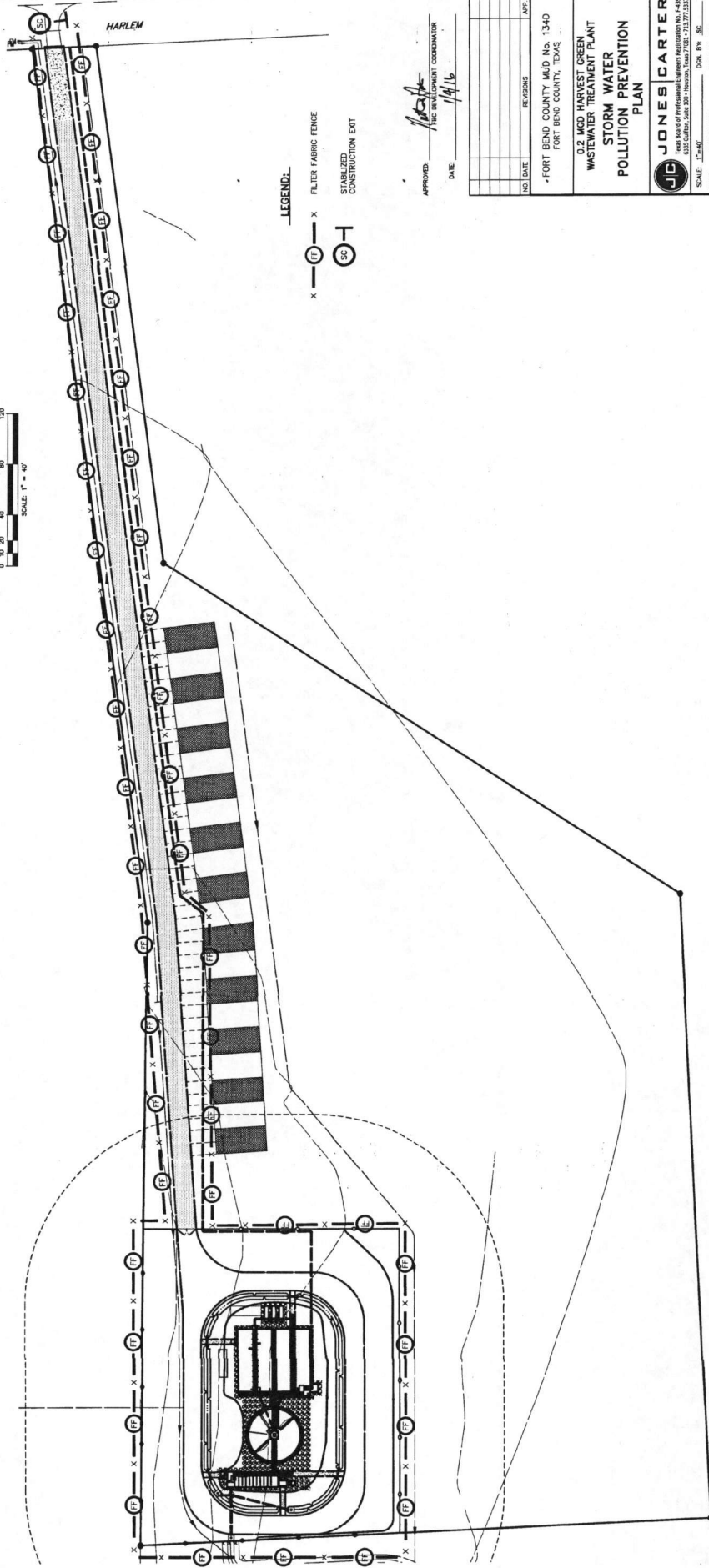
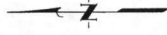
FORT BEND COUNTY M.I.D. No. 1340
FORT BEND COUNTY, TEXAS

0.9 MGD - HARVEST GREEN
WASTE WATER TREATMENT PLANT
STRUCTURAL BLOWER PAD
PLAN AND SECTIONS

JONES CARTER
State Board of Professional Engineers License No. 4489
10000 Katy Road, Suite 1000 Houston, Texas 77025
Phone 713-776-8433 Fax 713-776-8435
E-MAIL: JONES@JONES-CARTER.COM

SCALE: AS NOTED DRAW BY: JAC
DATE: 08-28-15 DWG. NO.:
JOB NO.: 0002-1118 SURV. BY:
SUBMITTED: P.E. NO.:

SHEET NO. 40
OF 42



LEGEND:

X — (C) — X FILTER FABRIC FENCE

(C) — (H) — (C) STABILIZED CONSTRUCTION EXIST

APPROVED: *[Signature]*
 DATE: 1/4/16

NO.	DATE	REVISIONS	APP.

FORT BEND COUNTY MUD NO. 134D
 FORT BEND COUNTY, TEXAS

0.2 MGD HARVEST GREEN
 WASTEWATER TREATMENT PLANT
 STORM WATER
 POLLUTION PREVENTION
 PLAN

JONES CARTER
 ENGINEERS ARCHITECTS INTERIORS
 15555 WESTWIND DRIVE, SUITE 100
 FORT WORTH, TEXAS 76155-7177 (326)

SCALE: 1"=40'
 DATE: AUGUST 2015
 JOB NO. 05540-08E1-00
 SUBMITTED: 8/24/15

DRN. BY: JEA
 DWG. NO.:
 SURV. BY:
 F.B. NO.:

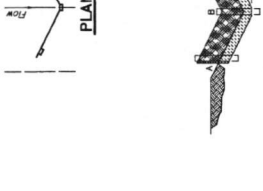
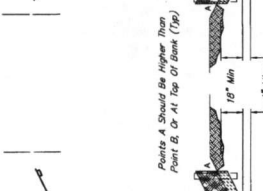
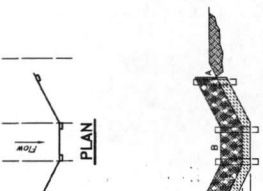
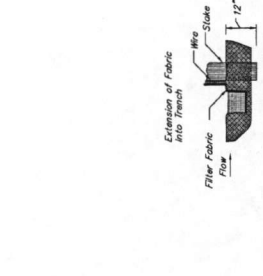
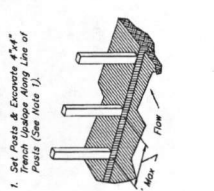
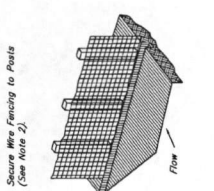
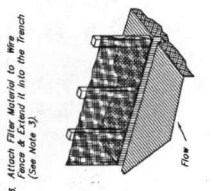
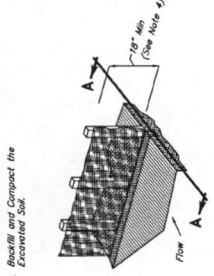
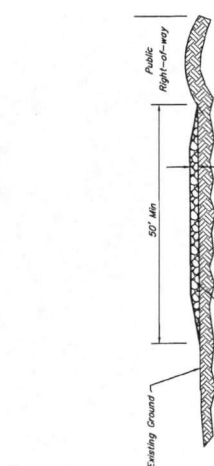
[Signature]
 8/24/15

SHEET NO. 41
 OF 44

CONFORMED DOCUMENTS

EROSION AND SEDIMENTATION CONTROL NOTES:

- Prior to start of construction, contractor shall install erosion and sedimentation controls at location shown on plans.
- Contractor shall inspect all erosion and sedimentation control systems specified herein, at a minimum of once every calendar day.
- Contractor shall maintain, repair and/or replace damaged erosion and sedimentation control system through the duration of the contract. (No separate pay)
- Contractor shall provide protected storage areas for chemical paints, solvents, fertilizers, and other potentially toxic materials.
- Contractor shall locate lead/material storage areas around fuel storage areas. (No separate pay)
- Contractor shall advise owner immediately, verbally, and in writing, of any fuel or toxic material spills which occur in the area and the action taken to remedy the problem.
- Contractor is responsible for disposing of his fuels, materials and contaminated excavations in a legally approved manner. (No separate pay)
- Contractor is responsible for complying with all applicable environmental laws.
- Contractor is responsible for providing adequately maintained sanitary facilities.
- At completion of the contract, owner and/or owner's representative shall inspect and approve the erosion and sedimentation control system before releasing contractor of his maintenance responsibilities.
- If erosion and sedimentation control system is represented with the contractor shall examine the existing erosion and sedimentation control system for the contract. Any damage noted at this time shall be repaired at owner's expense.
- Contractor shall be responsible for street cleaning, on existing pavement, due to his construction activity.
- If existing contractor removes or restricts (to be grade to establish drainage) that must be maintained by filter fabric fence as shown in detail on this plan.



- CONSTRUCTION NOTES:**
- Length shall be as shown on the construction drawings, but not less than 50 feet.
 - Thickness shall be not less than 8 inches.
 - With shall be not less than full width of all points of ingress or egress.
 - Stabilization for other areas shall have the same aggregate thickness and width requirements as the stabilized construction exit, unless otherwise shown on the construction drawings.
 - Stabilized area may be widened or lengthened to accommodate a truck washing area, an outlet sediment trap must be provided for the truck washing area.
 - Stabilized construction exit shall be maintained free of sediment for the duration of the project.

- CONSTRUCTION NOTES:**
- Set 2"x2" wooden stakes spaced a maximum of 5' apart & embedded 12" min.
 - Woven wire fence to be fastened securely to fence posts with staples.
 - Filter cloth to be fastened to woven wire fence with ties spaced every 24" at top & midsection.
 - Minimum height of filter should be 18" & a minimum of 38" above natural ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped 6" at the points, & folded.

STABILIZED CONSTRUCTION EXIT
NOT TO SCALE

REINFORCED FILTER FABRIC BARRIER
NOT TO SCALE

APPROVED: *[Signature]* FIELD SUPERVISOR
DATE: *1/1/16*

NO.	DATE	REVISIONS	APP.

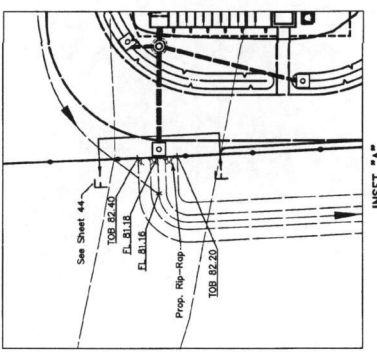
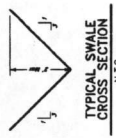
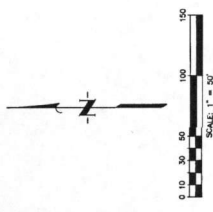
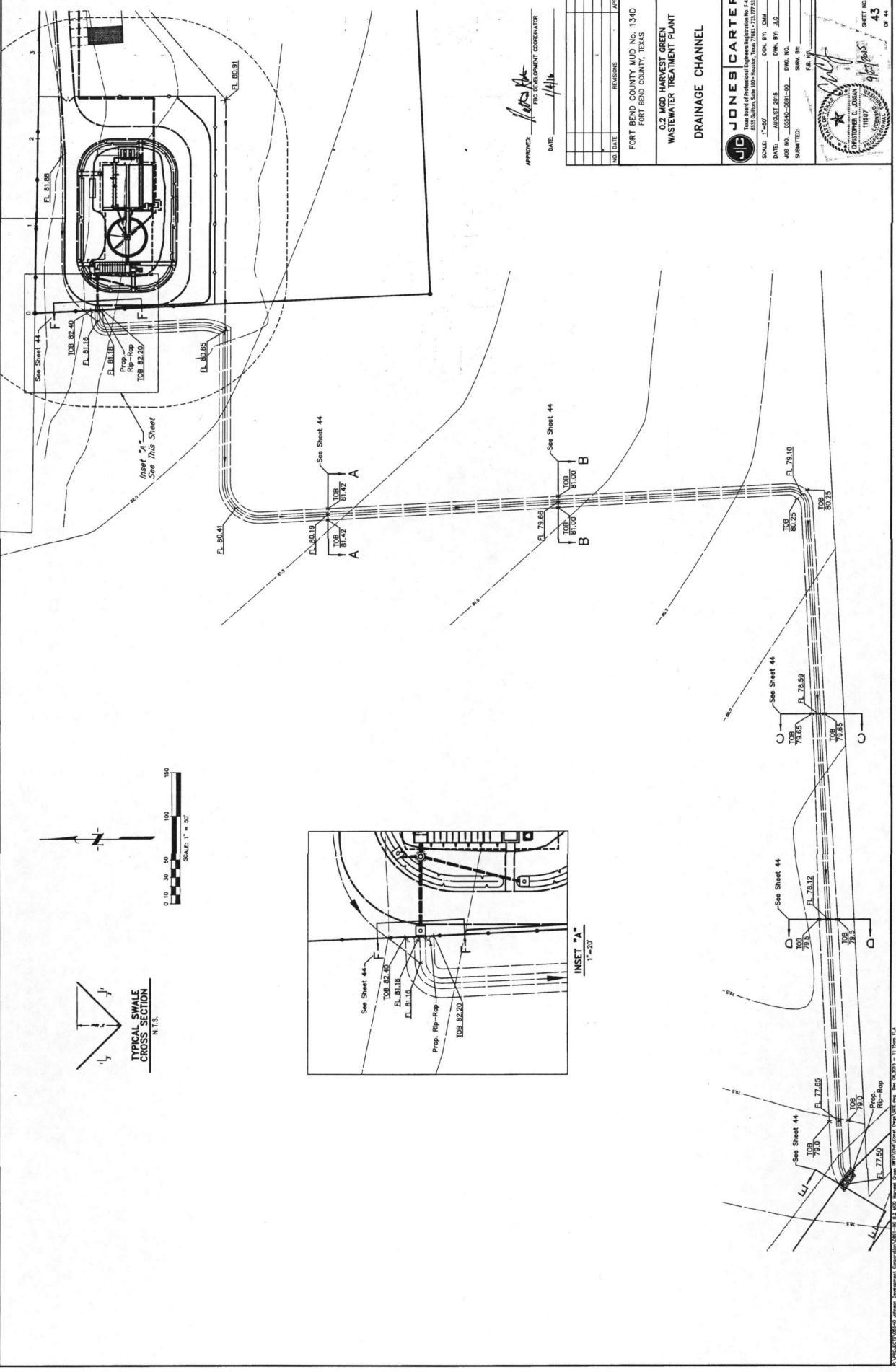
FORT BEND COUNTY MUD No. 13-40
FORT BEND COUNTY, TEXAS

0.2 MGD HARVEST GREEN WASTEWATER TREATMENT PLANT STORM WATER POLLUTION PREVENTION PLAN DETAILS

JONES CARTER
1015 CALLE, SUITE 1000, AUSTIN, TEXAS 78721-2737
SCALE: AS SHOWN CON. BY: SC.
DATE: AUGUST 2013 CON. BY: E.A.
JOB NO.: 05540-0281-00 DWG. NO.:
SUBMITTED: SURV. BY:
F.E. NO.:
[Signature]

SHEET NO. 42 OF 44

CONFORMED DOCUMENTS



APPROVED: *[Signature]*
 DATE: 1/11/14
 PREPARED BY: [Signature]
 CHECKED BY: [Signature]

NO.	DATE	REVISIONS	BY

FORT BEND COUNTY MUD No. 134D
 FORT BEND COUNTY, TEXAS

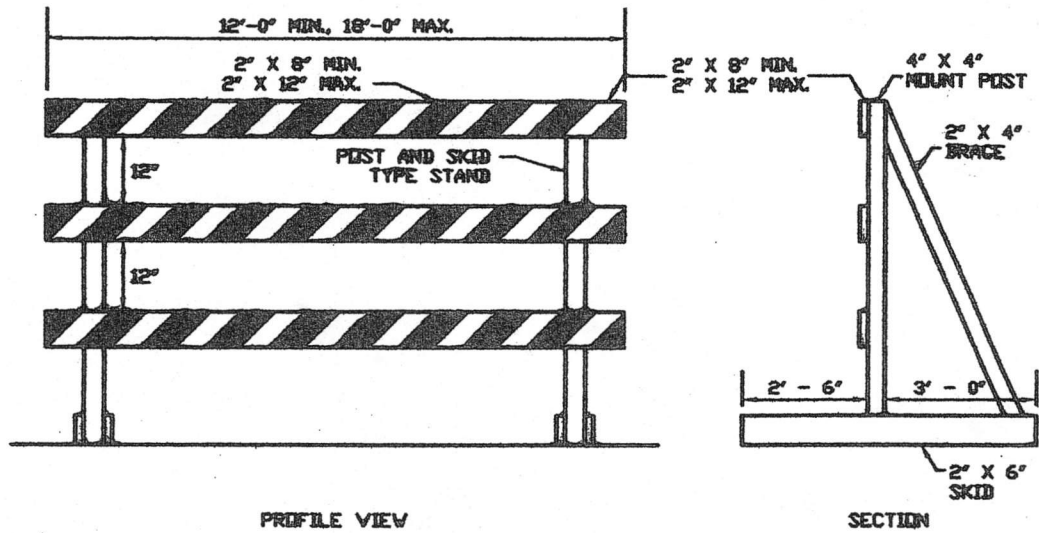
O.J. WOOD HARVEST GREEN
 WASTEWATER TREATMENT PLANT
 DRAINAGE CHANNEL

JONES CARTER
 Texas Board of Professional Engineers Registration No. 7439
 License No. 11187
 11187

SCALE: 1"=20'
 DATE: AUGUST 2013
 JOB NO. 05540-2891-00
 DRAWN BY: JAC
 CHECKED BY: JAC
 SUBMITTED: [Signature]
 P.R. [Signature]

SEAL OF THE STATE ENGINEER
 CHRISTOPHER C. JARVIS
 11187
 SHEET NO. 43
 OF 44

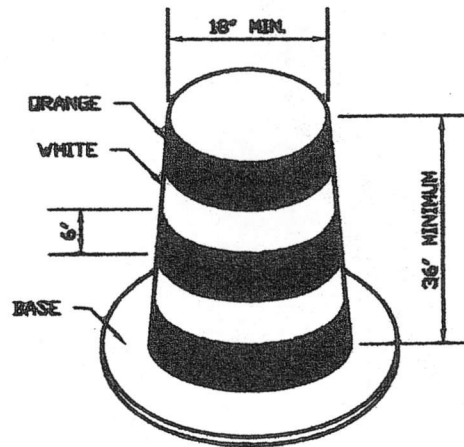
P:\Projects\05540-2891-00\Drawings\05540-2891-00-11187.dwg 11/18/13 1:54



PROFILE VIEW

SECTION

TYPE III BARRICADE
TEMPORARY BARRICADES



BARREL DETAIL

NOTES:

1. TWO (2) WHITE STRIPES SHALL BE REFLECTORIZED AND SHALL BE 4" TO 8".
2. FLASHING OR STEADY BURN LIGHTS SHALL BE USED ON BARRICADES, PANELS AND BARRELS AS NEEDED.
3. METAL BARRELS ARE NOT PERMITTED.

