

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 28 day of SEPTEMBER, 2010, before the Fort Bend Commissioners Court came on to be heard and reviewed the accompanying notice of SLC CONSTRUCTION, LLC.

Job Location STAFFORD RUN CREEK

Dated 09/14/10 BOND NO 022032425 Permit No. 83824
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, date 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 Meyers, seconded by Commissioner Prestage, duly put and carried, it is ORDERED, ADJUGED 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
P.O. Box 1449
Rosenberg, Texas 77471
281-633-7500

3. This permit expires one (1) year from date of permit if construction has not commenced.

By [Signature]
County Engineer

By [Signature]
Drainage District Engineer/Manager

Presented to Commissioners Court
and approved.

Recorded in Volume 9-28-10
Minutes of Commissioners Court.

Clerk of Commissioners Court
By [Signature]
Deputy

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

AUTHORIZED

BOND NO. 022032425

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

§

THAT WE, SLC Construction, L.L.C. whose
address is P.O.Box 639, Conroe, Tx 77305, Texas, hereinafter called the Principal,
and Safeco Insurance Company of America, a Corporation existing under and by virtue of
the laws of the State of Washington and authorized to do an indemnifying business in the State of
Texas, and whose principal office is located at 1001 4th Ave. Suite 1700, Seattle, WA 98154, whose
officer residing in the State of Texas, authorized to accept service in all suits and actions brought
within said State is Ross McCormick and whose address is 1600 N. Collins Blvd. Ste. 4000, Richardson, TX 75080,
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 Two Hundred Twelve Thousand Five
Dollars (\$ 212,500.00) current, lawful money of the United States of America, Hundred to be paid to said
Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which
payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us,
our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and
severally, by these presents.

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

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

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

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

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

EXECUTED this 9 day of September, 2010.

SLC Construction, L.L.C.

PRINCIPAL

Shirley R. Clark

BY

Safeco Insurance Company of America

SURETY

Candace Reynolds

BY Candace Reynolds



POWER
OF ATTORNEY

Safeco Insurance Company of America
General Insurance Company of America
1001 4th Avenue
Suite 1700
Seattle, WA 98154

No. 12814

KNOW ALL BY THESE PRESENTS:

That **SAFECO INSURANCE COMPANY OF AMERICA** and **GENERAL INSURANCE COMPANY OF AMERICA**, each a Washington corporation, does each hereby appoint

*****CANDACE REYNOLDS*****

its true and lawful attorney(s)-in-fact, with full authority to execute on its behalf fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind the respective company thereby.

IN WITNESS WHEREOF, **SAFECO INSURANCE COMPANY OF AMERICA** and **GENERAL INSURANCE COMPANY OF AMERICA** have each executed and attested these presents

this 21st day of March, 2009

Dexter R. Legg, Secretary

Timothy A. Mikolajewski, Vice President

CERTIFICATE

Extract from the By-Laws of **SAFECO INSURANCE COMPANY OF AMERICA**
and of **GENERAL INSURANCE COMPANY OF AMERICA**:

"Article V, Section 13. - FIDELITY AND SURETY BONDS ... the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business... On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

Extract from a Resolution of the Board of Directors of **SAFECO INSURANCE COMPANY OF AMERICA**
and of **GENERAL INSURANCE COMPANY OF AMERICA** adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,

- (i) The provisions of Article V, Section 13 of the By-Laws, and
- (ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and
- (iii) Certifying that said power-of-attorney appointment is in full force and effect,

the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

I, Dexter R. Legg, Secretary of **SAFECO INSURANCE COMPANY OF AMERICA** and of **GENERAL INSURANCE COMPANY OF AMERICA**, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of said corporation

this 9 day of September, 2010



Dexter R. Legg, Secretary

Figure: 28 TAC §1.601(a)(3)

1 IMPORTANT NOTICE

To obtain information or make a complaint:

2 You may contact Home Office Surety at
1-206-473-3799

3 You may call (company)'s toll-free telephone
number for information or to make a complaint
at:

(800) 472-5357 Surety Option #7

4 You may also write to Safeco
Insurance Company at:

Safeco Plaza
Seattle, WA 98185

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

(800) 252-3439

6 You may write the Texas Department of
Insurance:

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

7 PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your
premium or about a claim you should contact
the (agent) (company) (agent or the company)
first. If the dispute is not resolved, you may
contact the Texas Department of Insurance.

8 ATTACH THIS NOTICE TO YOUR POLICY:

This notice is for information only and does not
become a part or condition of the attached
document.

AVISO IMPORTANTE

Para obtener información o para someter
una queja:

Usted puede contactar a servicio de la oficina
principal de Safeco Surety al: 1-206-473-3799

Usted puede llamar al número de teléfono
gratis de (company)'s para información o
para someter una queja al:

(800) 472-5357 Surety Opción De #7

Usted también puede escribir a Safeco
Insurance Company

Safeco Plaza
Seattle, WA 98185

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

(800) 252-3439

Puede escribir al Departamento de Seguros
de Texas:

P.O. Box 149104
Austin, TX 78714-9104
Fax: (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 el (agente) (la
compañía) (agente o la compañía) primero. Si no
se resuelve la disputa, puede entonces
comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA:

Este aviso
es sólo para propósito de información y no se
convierte en parte o condición del documento
adjunto.

COUNTY OF FORT BEND

Engineering Department

P.O. BOX 1449
Rosenberg, Texas 77471-1449

Johnny Ortega
Permit Administrator

1124 Blume Road
Phone: (281) 341-7500

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

PERMIT NO. 003824

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.

- X (1) Complete Application Form.
- X a. Name of road, street, and/or drainage ditch affected.
- X b. Vicinity map showing course of direction.
- c. Plans and specifications.

- (2) Bond:
- District Attorney, approval when applicable.
- Perpetual bond currently posted.
- No.
- Amount
- X Performance bond submitted.
- No. 022032425
- Amount \$212,500.00
- 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.


Johnny Ortega CRM/ Permit Administrator
(REVISED 5/30/08)

09/13/2010
Date

NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES
IN FORT BEND COUNTY

APPLICANT'S JOB NO. _____
PERMIT No. 83824 PCT. No. 2
BOND No. 022032425

Formal notice is hereby given that SLC Construction, LLC
proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under,
across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction			
			Bored:	Jacked:	Driven:	Cased
Promenade Blvd @ Stafford Run Creek	:	63 LF	:	:	:	Cased
Ave E	: @ Stafford Run Creek	96 LF	:	:	:	Cased
FM 1092	: @ Stafford Run Creek	156 LF	:	:	:	Cased

Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance
Stafford Run Creek	: Promenade Blvd	: 350 LF S of American Canal	7000 LF (approx)
:	:	:	:
:	:	:	:

General Description

20" Surface Water Transmission Line along Easterly High Bank of Stafford Run Creek, as shown on approved construction plans produced by Jones and Carter, Inc.

The Location and description of the proposed installation and appurtenances is more fully shown on the attached detail drawings. The laying, construction, maintenance and/or repair of the proposed installation shall be subject to "A Revised Order Regulating the Laying, Construction, Maintenance and/or Repair of Cables, Conduits, and/or 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 Commissioners Court of Fort Bend County, Texas, dated the 3rd. day of August, 1987, recorded in Volume 639 of the Minutes of the Commissioners Court of Fort Bend County, Texas.

Written notices are required: 1) 48 hours in advance of start of construction and
2) when construction is complete and ready for final inspection.

Mail to: Permit Administrator/Fort Bend County Engineering
P.O. Box 1449, Rosenberg, TX 77471.

Violation of requirements shall constitute grounds for job shut down.

Does project
comply with Fort
Bend County
Outdoor Lighting
Ordinance?

Yes ()

No ()

COMPANY NAME: SLC Construction, LLC
AGENT and/or OWNER

(Signature)

NAME & TITLE Paul L. Preston, Project Manager
(Please Print)

DATE September 7, 2010

ADDRESS P.O. Box 639
(Street/P.O. Box)
Conroe TX 77305
City State Zip

TELEPHONE NO: 936.672.2597
(accessible 24 hrs/day, 7 days/week)

NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES
IN FORT BEND COUNTY

APPLICANT'S JOB NO. _____
PERMIT No. 83824 PCT. No. 2
BOND No. 027032425

Formal notice is hereby given that SLC Construction, LLC
proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under,
across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction			
			Bored	Jacked	Driven	Cased
Willow Drive	@ Stafford Run Creek	55 LF				
Stafford Run Ck	100 LF North of Willow Drive	99 LF	Open Cut			
Stafford Run Ck	500 LF North of American Canal	99 LF	Open Cut			

Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance

General Description

The Location and description of the proposed installation and appurtenances is more fully shown on the attached detail drawings. The laying, construction, maintenance and/or repair of the proposed installation shall be subject to "A Revised Order Regulating the Laying, Construction, Maintenance and/or Repair of Cables, Conduits, and/or 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 Commissioners Court of Fort Bend County, Texas, dated the 3rd. day of August, 1987, recorded in Volume 639 of the Minutes of the Commissioners Court of Fort Bend County, Texas.

Written notices are required: 1) 48 hours in advance of start of construction and
2) when construction is complete and ready for final inspection.

Mail to: Permit Administrator/Fort Bend County Engineering
P.O. Box 1449, Rosenberg, TX 77471.

Violation of requirements shall constitute grounds for job shut down.

COMPANY NAME: SLC Construction, LLC
Paul L. Preston
AGENT and/or OWNER
(Signature)

NAME & TITLE Paul L. Preston, Project Manager
(Please Print)

DATE September 7, 2010

ADDRESS P.O. Box 639
(Street/P.O. Box)

Conroe TX 77305
City State Zip

TELEPHONE NO: 936.672.2597
(accessible 24 hrs/day, 7 days/week)

Does project
comply with Fort
Bend County
Outdoor Lighting
Ordinance?

Yes ()

No ()



CONSTRUCTION
OF
FOR
SURFACE WATER TRANSMISSION LINES - PHASE I

FORT BEND COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 2

FORT BEND COUNTY, TEXAS

DIRECTORS

CHAD HOWARD
MARTIN SALDUA
JAMES K. (JIMMIE) WILLIAMS
LINDA WALKER
JOHN FERRO

PRESIDENT
VICE-PRESIDENT
SECRETARY-TREASURER
DIRECTOR
DIRECTOR

INDEX OF DRAWINGS

SHEET No.	TITLE
1.	COVER SHEET & INDEX
2.	GENERAL NOTES
3.	OVERALL SITE LAYOUT SHEET 1 OF 2
4.	OVERALL SITE LAYOUT SHEET 2 OF 2
5.	STAFFORD RUN CREEK STA 0+40 TO STA 5+50
6.	STAFFORD RUN CREEK STA 5+50 TO STA 10+50
7.	STAFFORD RUN CREEK STA 10+50 TO STA 15+50
8.	STAFFORD RUN CREEK STA 15+50 TO STA 20+50
9.	STAFFORD RUN CREEK STA 20+50 TO STA 25+40
10.	STAFFORD RUN CREEK STA 25+40 TO STA 30+00
11.	STAFFORD RUN CREEK STA 30+00 TO STA 35+00
12.	STAFFORD RUN CREEK STA 35+00 TO STA 40+00
13.	STAFFORD RUN CREEK STA 40+00 TO STA 45+00
14.	STAFFORD RUN CREEK STA 45+00 TO STA 50+00
14 A.	CREEK CROSSING PROFILE
15.	STAFFORD RUN CREEK STA 50+00 TO STA 55+00
16.	STAFFORD RUN CREEK STA 55+00 TO STA 60+00
17.	STAFFORD RUN CREEK STA 60+00 TO STA 65+00
18.	STAFFORD RUN CREEK STA 65+00 TO STA 70+00
19.	STAFFORD RUN CREEK STA 70+00 TO STA 73+00
20.	H.L. & P. FEE STRIP STA 0+00 TO STA 6+00
21.	H.L. & P. FEE STRIP STA 6+00 TO STA 10+00
22.	H.L. & P. FEE STRIP STA 10+00 TO STA 15+00
23.	H.L. & P. FEE STRIP STA 15+00 TO STA 18+00
24.	TRAFFIC CONTROL PLAN
25.	STORM WATER POLLUTION PREVENTION PLAN 1 OF 2
26.	STORM WATER POLLUTION PREVENTION PLAN 2 OF 2
27.	STORM WATER POLLUTION PREVENTION DETAILS
28.	STANDARD WATERLINE DETAILS
29.	STANDARD MANHOLE & CASING DETAILS
30.	STANDARD STRUCTURE AND SLOPE PAVING DETAILS
31.	STANDARD STANDARD
32.	STEEL PIPE DETAILS

FORT BEND W.C. & I.D. No. 2

James DeWitt
CITY OF STAFFORD
DATE 4/7/10

CITY OF STAFFORD

Charles Russell
FORT BEND COUNTY
DATE 4-10-10

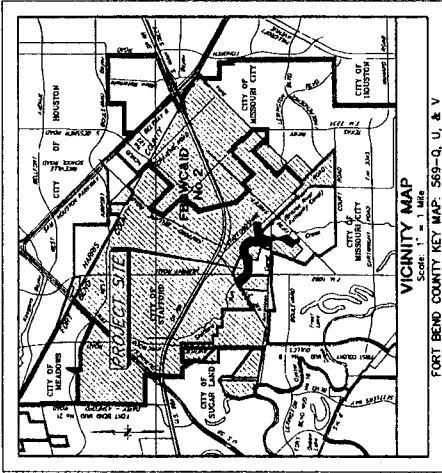
FORT BEND COUNTY

James K. Williams
FORT BEND COUNTY ENGINEER
DATE 4/15/10



MARCH 2010
JC JOB No. 0146-325

JC JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Texas Board of Professional Engineers Registration No. F-439
6333 Galloway Dr., Suite 100, Houston, Texas 77061 (713) 777-5307



NOTES:
These plans were prepared to meet or exceed the specifications and requirements of Fort Bend W.C. & I.D. No. 2, Texas Commission on Environmental Conservation and Fort Bend County, Texas as currently amended, whatever is more stringent.
Approval by Fort Bend County will be deemed void if construction has not begun within one year of approval date.
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.
A permit is required for construction activity within the Drainage District right-of-way through the Fort Bend County Engineering Department. Contact Mr. Johnny Ortega, Permit Administrator, at 281-633-7500.

I, Matthew B. Braxton, a Professional Engineer licensed in the State of Texas do hereby certify that these plans were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Texas.
Matthew B. Braxton, P.E.
Date 4/7/10

BENCH MARK
ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL
GEODETIC MONUMENT - N 805 BIST. RD. APT 113, LOCATED
AT THE JUNCTION OF NORTH MAIN STREET AND STAFFORD
ROAD SET VERTICALLY IN THE NORTHWEST CORNER WALL OF THE
TATAR BUILDING WITH A PUBLISHED.
ELEVATION = 82.20' (NAVD 83)

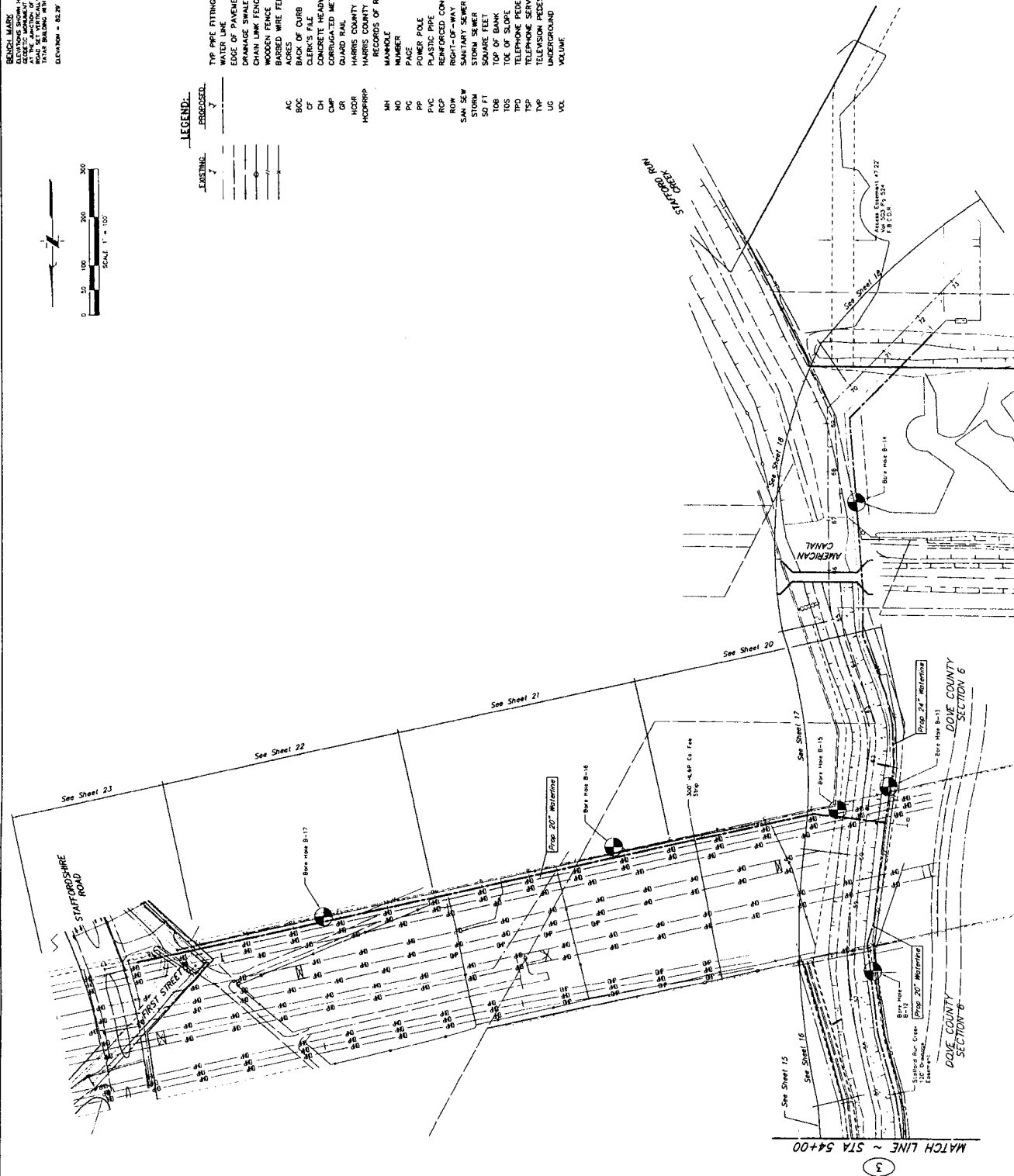
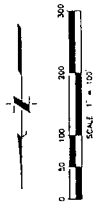
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LEGEND:

EXISTING	PROPOSED
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EXISTING

AC
BOC
CF
CH
CMP
CR
HCDR
HCOFRR
MH
NO
PG
PP
PVC
RCP
ROW
SAN SE
STORM
SQ FT
TOB
TOS
TPD
TSP
TVP
UG
VOL



PRIVATE UTILITY LINES SHOWN PLANS ARE BASED ON RECORD DRAWINGS FOR EXISTING UTILITIES. THE LOCATION, DEPTH AND CHARACTER OF UTILITIES SHOWN ARE NOT TO BE CONSIDERED A GUARANTEE BY THE ENGINEER. THE USER OF THESE PLANS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES BEFORE CONSTRUCTION.		Date: 3-25-10 Scale: 3/8"=1'-0"	
Project: Fort Bend County Water Treatment Plant Location: Fort Bend County, Texas Drawn by: J. Carter Checked by: J. Carter Date: 3-25-10		Date: 3-25-10 Scale: 3/8"=1'-0"	
Notes: 1. All utilities shown are based on record drawings. 2. The user of these plans shall be responsible for obtaining all necessary permits and for verifying the location and depth of all utilities before construction.		Date: 3-25-10 Scale: 3/8"=1'-0"	
Project: Fort Bend County Water Treatment Plant Location: Fort Bend County, Texas Drawn by: J. Carter Checked by: J. Carter Date: 3-25-10		Date: 3-25-10 Scale: 3/8"=1'-0"	
Notes: 1. All utilities shown are based on record drawings. 2. The user of these plans shall be responsible for obtaining all necessary permits and for verifying the location and depth of all utilities before construction.		Date: 3-25-10 Scale: 3/8"=1'-0"	

NO.	DATE	REVISIONS	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

SCALE: 3/8"=1'-0" DATE: MARCH-2010 JOB NO: 3-248-322 SUBMITTED:		DON BY: JAC DWN BY: JAC DTC: NO SUP BY: NO I/B NO:	
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TRANSMISSION LINES - PHASE 1 OVERALL SITE LAYOUT SHEET 2 OF 2		JC JONES & CARTER, INC. ENGINEERS, PLANNERS, SURVEYORS 1500 S. FORT WORTH FORT WORTH, TEXAS 76104 PHONE: (817) 773-1537 FAX: (817) 773-1537	
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PORT BEND COUNTY WATER TREATMENT PLANT FORT BEND COUNTY, TEXAS		SCALE: 3/8"=1'-0" DATE: MARCH-2010 JOB NO: 3-248-322 SUBMITTED:	
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SCALE: 3/8"=1'-0" DATE: MARCH-2010 JOB NO: 3-248-322 SUBMITTED:		DON BY: JAC DWN BY: JAC DTC: NO SUP BY: NO I/B NO:	
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SCALE: 3/8"=1'-0" DATE: MARCH-2010 JOB NO: 3-248-322 SUBMITTED:		DON BY: JAC DWN BY: JAC DTC: NO SUP BY: NO I/B NO:	
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SCALE: 3/8"=1'-0" DATE: MARCH-2010 JOB NO: 3-248-322 SUBMITTED:		DON BY: JAC DWN BY: JAC DTC: NO SUP BY: NO I/B NO:	
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SCALE: 3/8"=1'-0" DATE: MARCH-2010 JOB NO: 3-248-322 SUBMITTED:		DON BY: JAC DWN BY: JAC DTC: NO SUP BY: NO I/B NO:	
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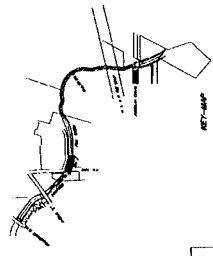
SCALE: 3/8"=1'-0" DATE: MARCH-2010 JOB NO: 3-248-322 SUBMITTED:		DON BY: JAC DWN BY: JAC DTC: NO SUP	
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1.B.M. "A"
OUT CORNER ON TYPE "T" MET. ON THE EAST SIDE OF
STANFORD RUN CREEK AND THE NORTH SIDE OF AVENUE L
ELEVATION = 74.29' (NAND 80)

1.B.M. "B"
CORNER ON END OF SIDEWALK ON NORTH SIDE OF
STANFORD RUN CREEK, SOUTHEAST OF THE INTERSECTION OF
STANFORD RUN ROAD AND FM 1083 (MURRAY ROAD).
ELEVATION = 74.29' (NAND 80)

1.B.M. "C"
OUT CORNER ON SOUTHWEST CORNER OF THE SOUTHWEST
QUARTER SECTION OF THE BNA CANNAL AND STANFORD
RUN CREEK.
ELEVATION = 81.59' (NAND 80)

1. All existing utilities are to be field verified.
2. Contractor to remove and replace backstop interceptor and the 24" corrugated metal pipe to the nearest point as required for construction of proposed waterline to existing conditions or better.
3. Drainline shall be installed to drain by use of a pump. This is considered incidental to the cost of the drain line connection.



PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET 3.0' W. CR
RESERVING CALL THE TOLL FREE NUMBER 1-800-251-4543

<i>W. Paul</i> Continuation (NORAD) SCUS facilities (continued on p. 10, including aircraft location, vessel information, etc.) Date <i>3-25-78</i>	<i>W. Paul</i> Continuation (NORAD) SCUS facilities (continued on p. 10, including aircraft location, vessel information, etc.) Date <i>3-25-78</i>
<i>W. Paul</i> Verizon Communications - Reported to subcommittee table location only (continued on p. 10) Date <i>3-25-78</i>	<i>W. Paul</i> Verizon Communications - Reported to subcommittee table location only (continued on p. 10) Date <i>3-25-78</i>

FORT BEND COUNTY W.C.&I.D. No. 2
FORT BEND COUNTY TEXAS

SURFACE WATER
TRANSMISSION LINES -- PHASE I

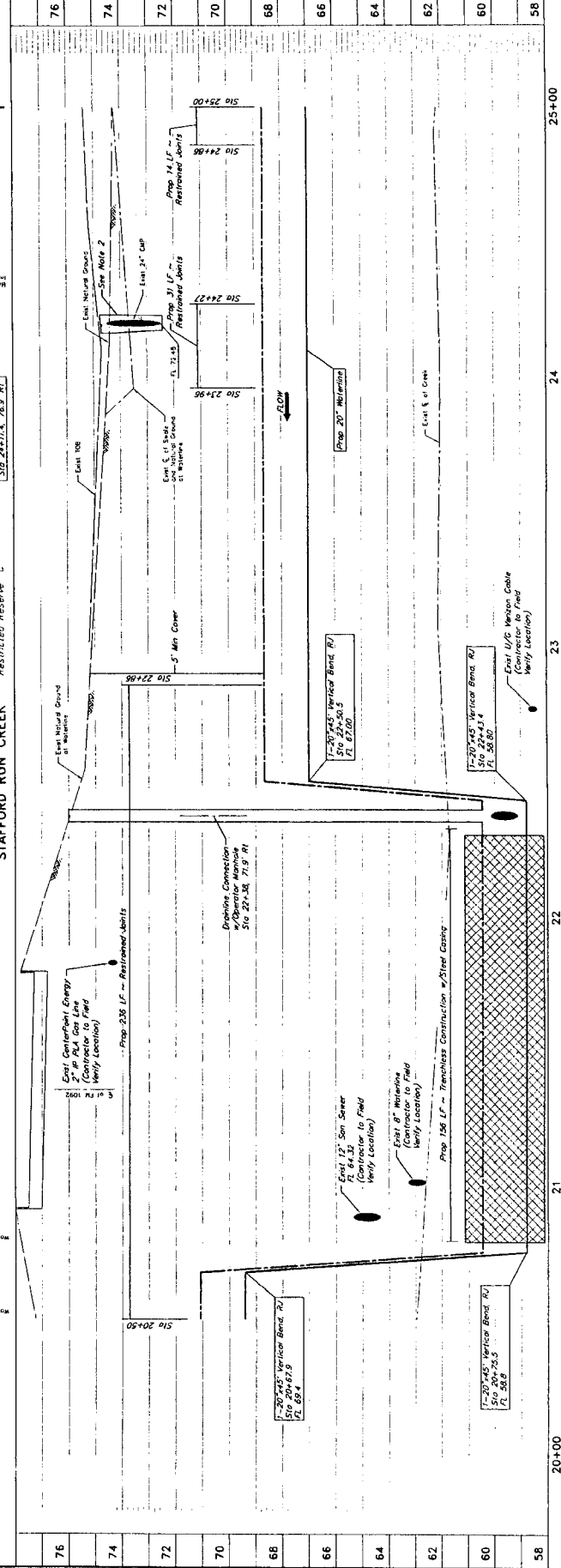
STAFFORD RUN CREEK
STA 20+50 TO STA 25+00

J. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Texas Board of Professional Engineers Registration No. F-219
6325 Coulton Dr., Suite 100 Houston, Texas 77061 (713) 777-5337

SCALE: 1"=20' H, 1"=2' V _____ DGN. BY: PKS/JAC
DATE: MARCH 2012 _____ DWN. BY: JKY
JOB NO. 0148-223 _____ DWG. NO. _____
SUBMITTED _____ SURV. BY: _____
_____ E.B. NO. _____



6
SHEET NO. 13345



20+00

21

2

2.

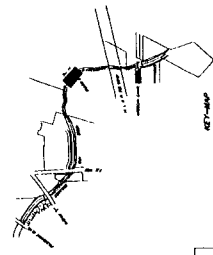
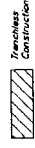
24

5+00

1. All existing utilities are to be field verified.
2. Contractor shall grant owner access to trenchless construction area.

NOTE:

- 1. All existing utilities are to be field verified.
- 2. Contractor shall grant owner access to trenchless construction area.



PRIVATE UTILITY LINES SHOWN

DATE 4-25-16
DATE 3-25-16
DATE 2-25-16

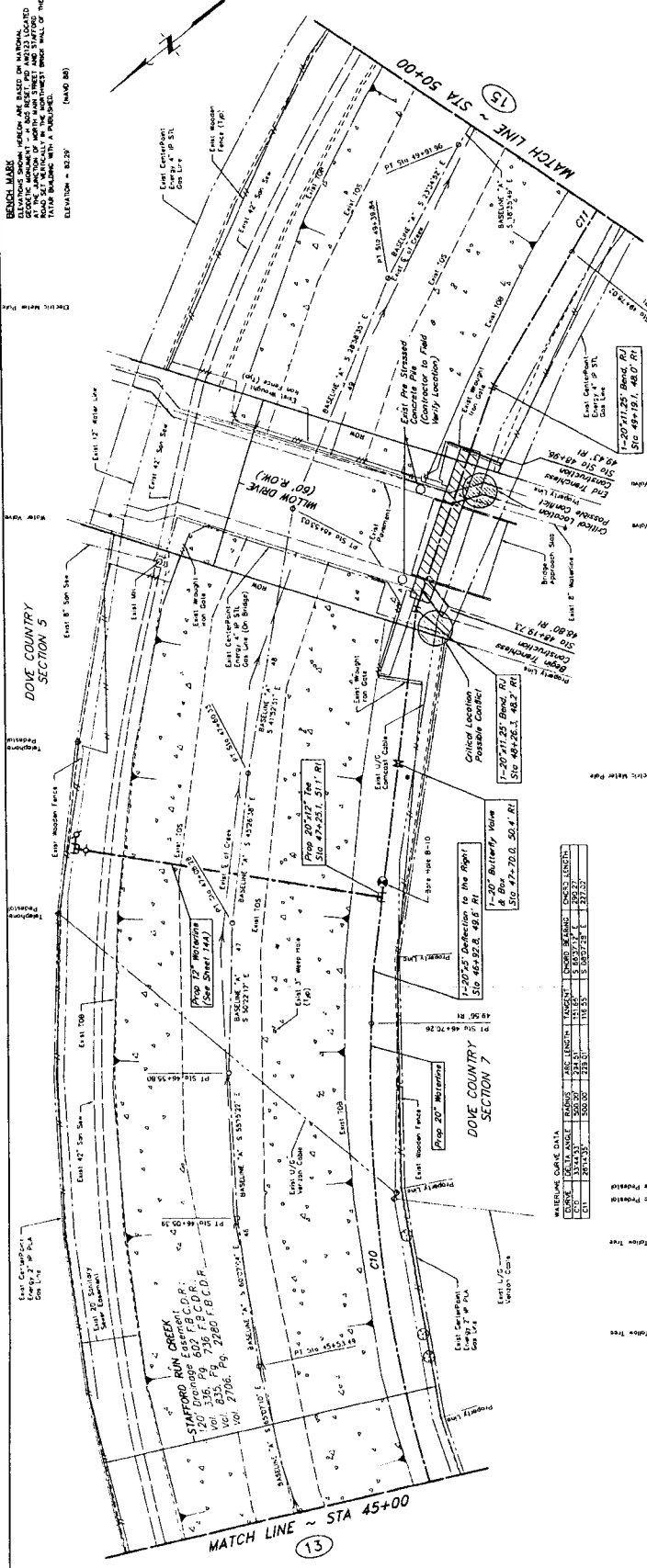
NO.	DATE	REVISIONS	APP.
1			
2			
3			
4			
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10			

FORT BEND COUNTY W.C.D. NO. 2
FORT BEND COUNTY, TEXAS

SURFACE WATER
TRANSMISSION LINES - PHASE I
STAFFORD RUN CREEK
STA 45+00 TO STA 50+00

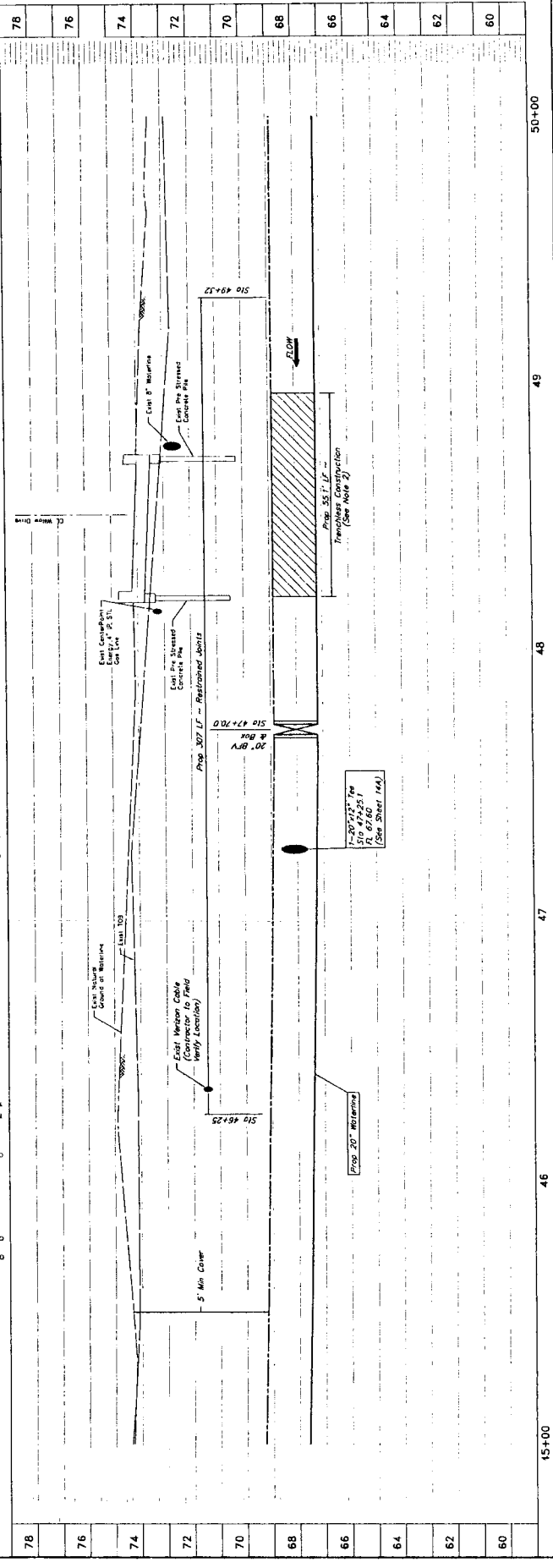
J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
10000 N. FORT WORTH AVENUE, SUITE 100
FORT WORTH, TEXAS 76137-7007
PHONE: 817-335-1234 FAX: 817-335-1235
WWW.JCJONESANDCARTER.COM

DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES
DATE 1-20-16 BY J.C. JONES



STATION	CHORD BEARING	CHORD DISTANCE	ARC BEARING	ARC DISTANCE	CHORD BEARING	CHORD DISTANCE	ARC BEARING	ARC DISTANCE
45+00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+10	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+20	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+30	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+40	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+50	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+60	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+70	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+80	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
45+90	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00
46+00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00	S 89° 12' 30" E	100.00

STAFFORD RUN CREEK

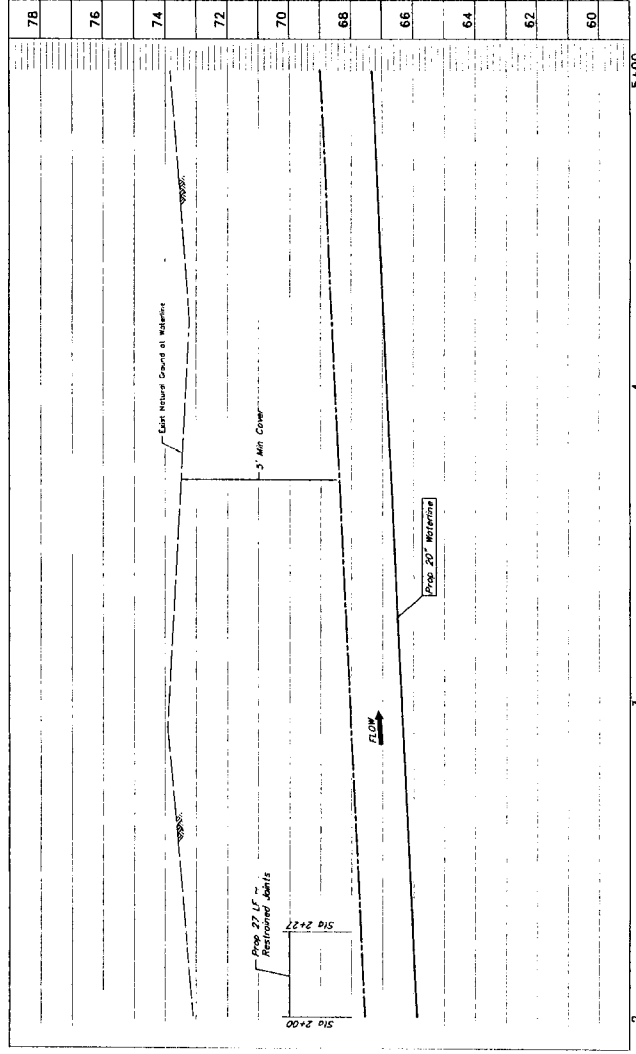
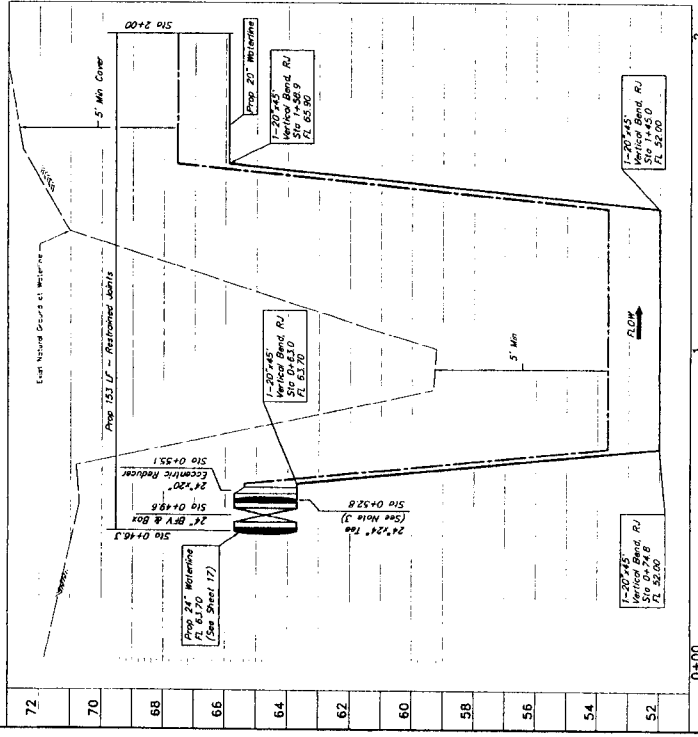
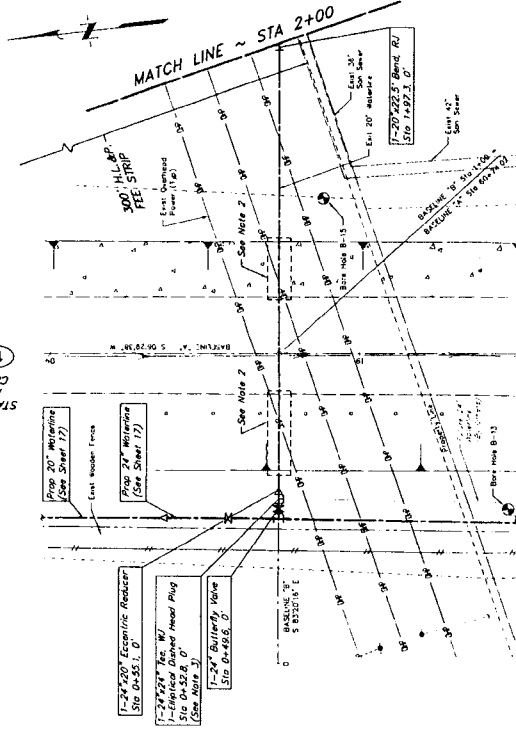
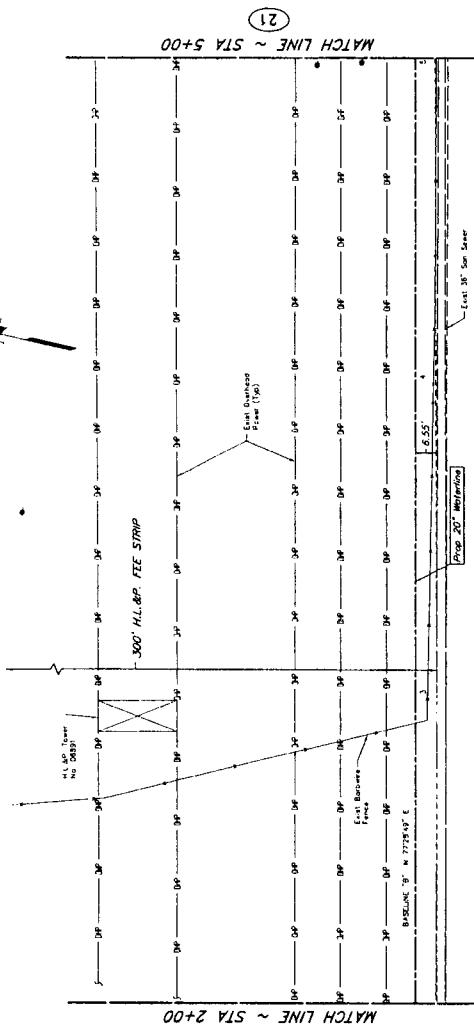
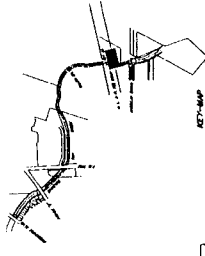


15+00 46 47 48 49 50+00



NOTES:

1. All existing utilities are to be field verified.
2. Contractor shall remove and replace concrete slope paving as required for construction of proposed waterline. This work is considered incidental to the project.
3. 2' x 24" tee to be welded joints and have 1/2" replace sealed head plug on south side of the branch.
4. Contractor to maintain positive drainage of Stafford Run Creek during construction of proposed 20" waterline.



APR 11 1970
PRIVATE UTILITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O. OR
CITY LIMITS. CALL FOR YOUR STATE NOTICE AT (703) 311-7231, 4447.

<i>W. Paul</i> <u>Washington University, St. Louis</u> (Department and office of origin must be indicated, unless office name appears on label) Date <u>7-25-70</u>	<u>W. Paul</u> <u>Washington University, St. Louis</u> (Department and office of origin must be indicated, unless office name appears on label) Date <u>7-25-70</u>
--	--

[illegible]

FORT BEND COUNTY W.C.&I.D. No. 2
FORT BEND COUNTY TEXAS

SURFACE WATER
TRANSMISSION LINES - PHASE I
H.L. & P. FEE STRIP
STA 0+00 TO STA 5+00

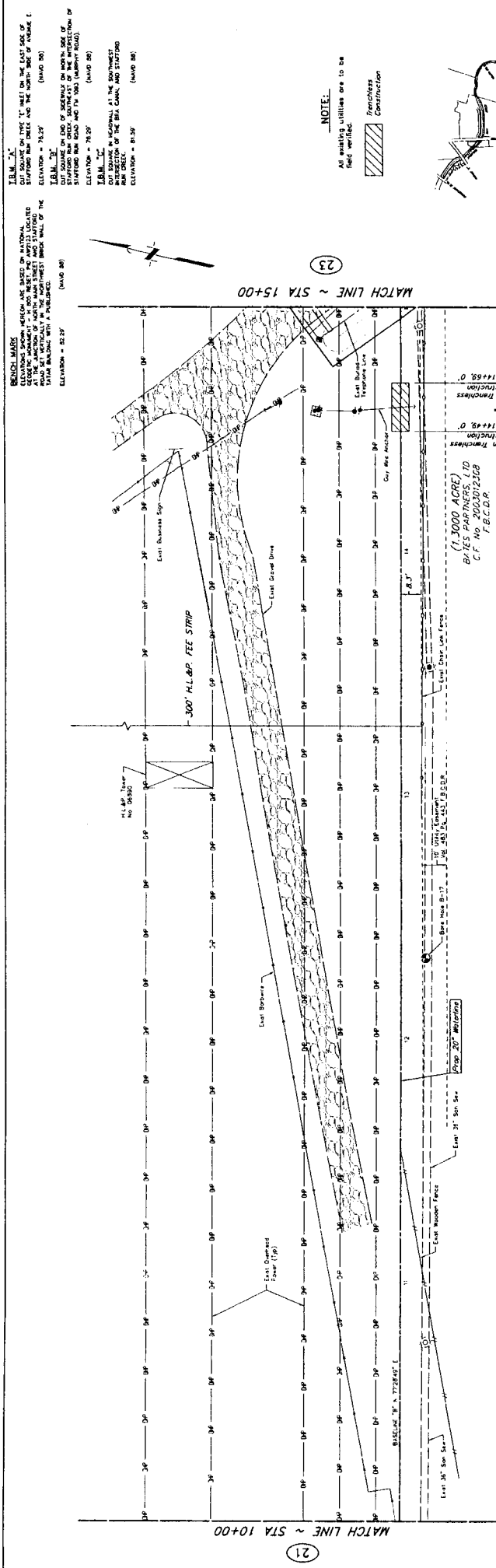
J. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
Texas Board of Professional Engineers Registration No. F-219
6335 Gauthier Dr. Suite 100 Houston, Texas 77051 (713) 777-5333

SCALE: 1"=20' H. 1"=2' V. _____ DCN BY: _____ DNR/AE: _____
DATE: MARCH 2010 _____ DCN BY: JAM _____
JOB NO. C146-325 _____ DMC NO. _____
SUBMITTED _____ SURV BY: _____
F.B. NO. _____

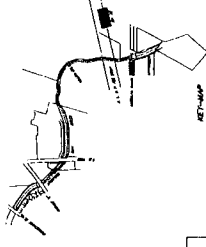
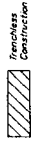
NO B-2
2410

SECRET NO
20
OF 32

UNITED STATES OF AMERICA
MATTHEW B. BREAZALE
EMPIO
PROFESSIONAL



NOTE:
estating utilities are to be
verified.

[illegible][illegible]

FORT BEND COUNTY W.C.&I.D. No. 2
FORT BEND COUNTY, TEXAS

SURFACE WATER
TRANSMISSION LINES - PHASE I
H.L. & P. FEE STRIP
STA 10+00 TO STA 15+00

JC JONES & CARTER, INC.
ENGINEERS • PLANNERS • SURVEYORS
Texas Board of Professional Engineers Registration No. E-439
6035 Gifford Dr., Suite 100 Houston, Texas 77061 (713) 777-5337

SCALE: 1"=20' H, 1"=2' V

DATE: MARCH 2019

WOB NO 0146-325

SUBMITTED

DWG NO

DWN BY

DWN BY

PWK/AE



78	78	10+00	11	12	13	14	15+00
76	76						
74	74						
72	72						
70	70						
68	68						
66	66						
64	64						
62	62						
60	60						

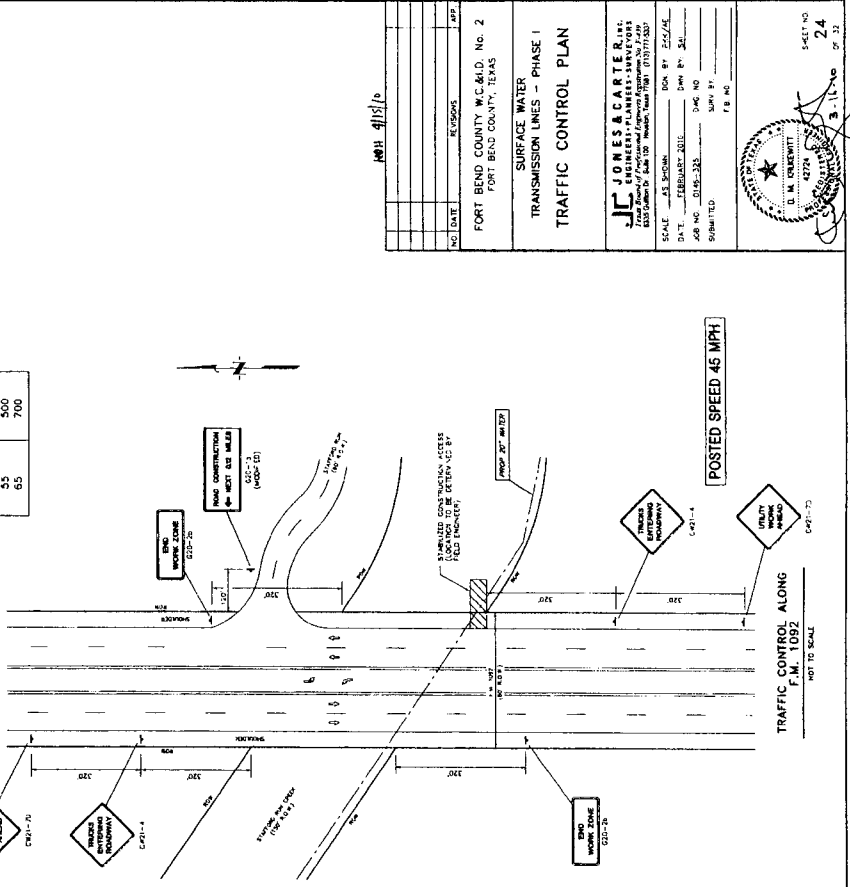
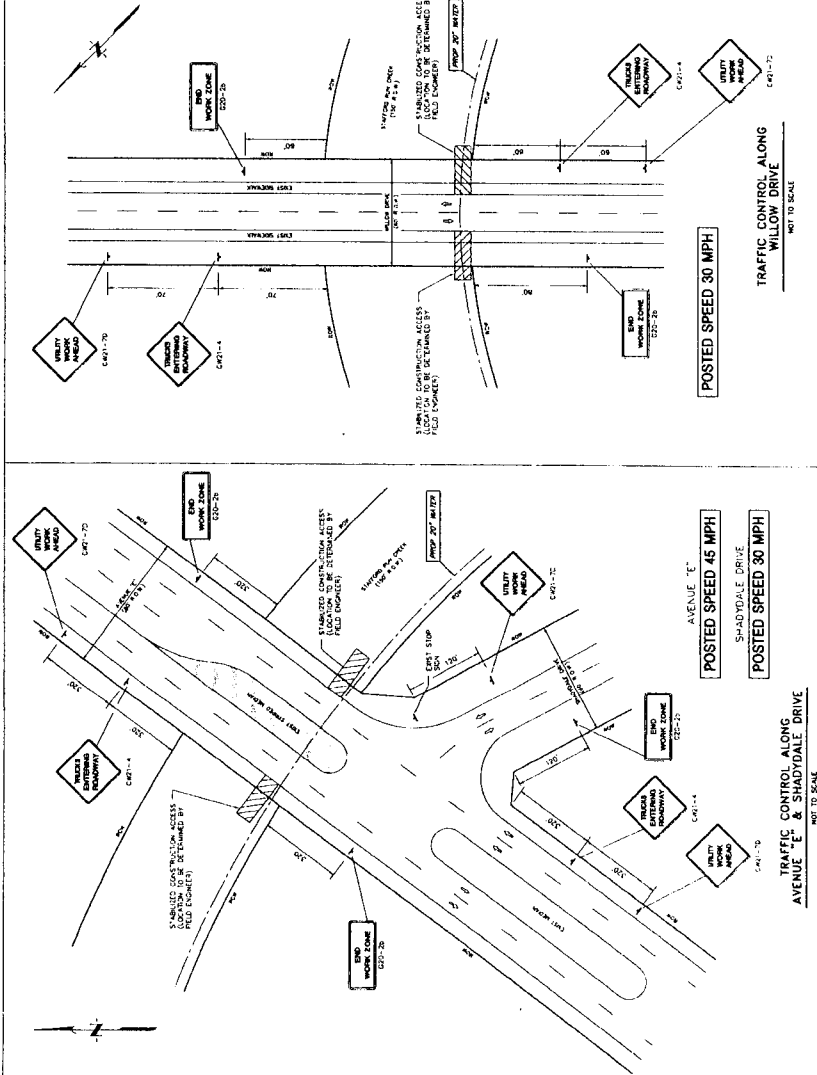
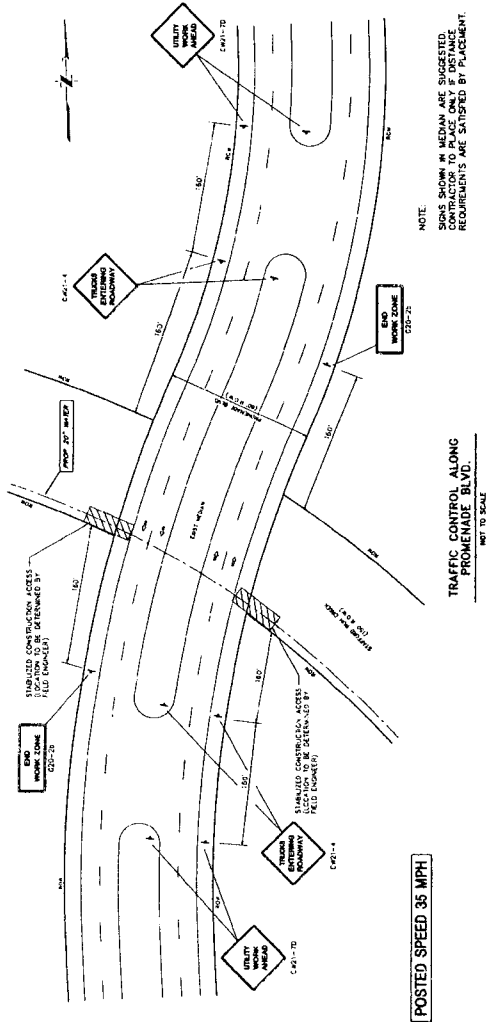
- NOTES
1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES (TRAFFIC CONTROL PLAN) AND TRAFFIC CONTROL DEVICES (UNITED - LATEST EDITION WITH REVISIONS) DURING CONSTRUCTION.
 2. NO LANES SHALL BE BLOCKED FROM 7 A.M. TO 9 A.M. AND 4 P.M. TO 6:30 P.M. MONDAY THRU FRIDAY.
 3. OFF DUTY POLICE OFFICERS/AGENTS ARE REQUIRED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED.
 4. CONTRACTOR SHALL COVER THE EXCAVATION WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS AND ALLOW NORMAL TRAFFIC FLOW.
 5. APPROVED COPIES OF "TRAFFIC CONTROL PLANS" SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
 6. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF TRAFFIC CONTROL PLAN DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THIS MANUAL, THE CONTRACTOR SHALL SUBMIT THE DIFFERENT METHOD AND SUBMIT ALTERNATE PLANS TO TRAFFIC SECTION OF HARP FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.
 7. IF THE PROJECT IS WITHIN 400 FEET FROM A SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL CONTACT FORT BEND COUNTY PUBLIC WORKS DEPARTMENT TO REQUEST A SIGNALIZED INTERSECTION. (1) MORNING DAYS PRIOR TO THE START OF CONSTRUCTION.

LEGEND

STABILIZED CONSTRUCTION ACCESS (TO BE DETERMINED BY FIELD ENGINEER)	OPEN TO TRAFFIC
SOON WITH POST	TUBULAR MARKERS, CONES OR DRUMS

CONSTRUCTION WARNING SIGN SPACING

Posted Speed or 85% Speed (MPH)	X Min. Distance (feet)
30 or less	1200
35	1600
40	2000
45	2400
50	2800
55	3200
60	3600
65	4000



PORT BEND COUNTY M.C. & D. No. 2

PORT BEND COUNTY, TEXAS

SURFACE WATER TRANSMISSION LINES - PHASE I

TRAFFIC CONTROL PLAN

J.C. JONES & CARTER, INC.
ENGINEERS-PLANNERS-SURVEYORS
10000 Katy Freeway, Suite 100, Houston, Texas 77057 (713) 777-1337

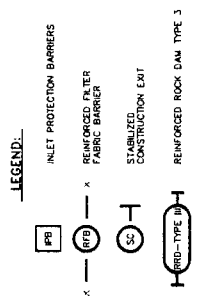
SCALE: AS SHOWN, 1" = 200' DATE: JAN. 2011
DATE: FEBRUARY 2011 DATE: MAY 2011
JOB NO. 01-05-332 DRAW NO. SURV. BY: SUBMITTED: F.B. NO.

SHEET NO. 24 OF 33



- 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 throughout the duration of the contract. (No separate pay)
 - Contractor shall provide protected storage areas for chemicals, paints, solvents, oils, fuels, and other potentially toxic materials.
 - Contractor shall install and maintain erosion control measures, including silt fences, sedimentation basins, and other measures to prevent erosion and sedimentation. (No separate pay)
 - Contractor shall advise owner immediately, verbally, and in writing, of any fuel or toxic material spill into the project/construction area and the contractor shall be responsible for cleanup of the spill.
 - Contractor is responsible for cleaning up his fuels, materials, and contaminated excavations in a timely 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 with the contractor shall examine erosion and sedimentation control system before releasing contractor of its maintenance responsibilities.
 - Contractor shall maintain and repair erosion control system for the duration of the contract. (No separate pay)
 - Contractor shall be responsible for the construction of the contract. Any damage prior to contractor starting construction of the contract, or any damage to the contract, shall be the responsibility of the contractor. (No separate pay)
 - Contractor shall be responsible for steel cleaning, on a daily basis, all mud and dirt deposited on the existing pavement due to the construction activity.
 - If paving contractor removes or punctures timber grade to establish drainage, the contractor shall be responsible for the contractor's detail on this sheet.

- MANHOLE / INLET PROTECTION NOTES:**
- Manholes and manhole inlets that are not complete and/or are subject to conveying storm water flows are to be protected to prevent sediment from entering the proposed or existing storm sewer system.
 - Protection shall consist of one layer of 3x12-inch oak timbers, one (1) inch apart, covered with one layer of woven polypropylene or polyester filter fabric (Eaton City Filter Fabric) and secured with two (2) 2x4's nailed securely to each timber over the filter fabric. The filter fabric shall extend beyond the perimeter of the manhole or inlet and be secured to the surrounding soil as shown.
 - Filter fabric to be elevated or replaced when it ceases to function properly or as directed by the engineer.
 - Contractor may submit plans for alternate methods of protection. These alternate methods must be approved prior to use in the field.
 - No separate payment shall be made for inlet and manhole protection. Include the cost in the unit price for the inlets and manholes.



NO. 412/10

NO.	DATE	REVISION	APP.

FORT BEND COUNTY W.C.&I.D. No. 2
FORT BEND COUNTY, TEXAS

SURFACE WATER
TRANSMISSION LINES - PHASE 1
STORM WATER
POLLUTION PREVENTION
PLAN 2 OF 2

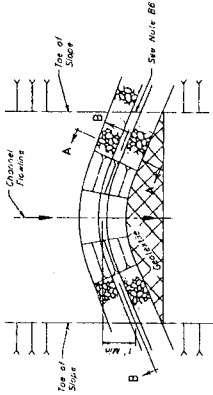
J.C. JONES & SONS, INC.
P.O. BOX 1000, FORT BEND COUNTY, TEXAS 78601
Phone: (512) 326-1000
Fax: (512) 326-1001

SCALE: 1" = 20' DOW BY: J.C.J./S
DATE: 12-20-09 CEN BY: J.C.J./S
JOB NO. 12-20-09 SHEET NO. 26 OF 27
SUBMIT: 12-20-09

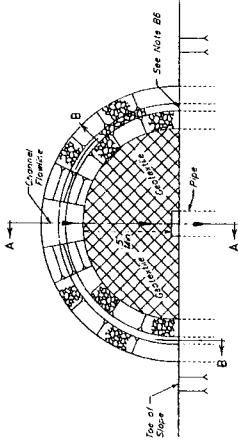
STAMP: FORT BEND COUNTY, TEXAS
J.C. JONES & SONS, INC.
P.O. BOX 1000, FORT BEND COUNTY, TEXAS 78601
Phone: (512) 326-1000
Fax: (512) 326-1001

ELITE DAM NOTES

- A TYPES OF REINFORCED ROCK DAM
 - 1 TYPE 1 (NON-HAMMERED)
 - a HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM
 - b TOP WIDTH - 2 FEET (MINIMUM)
 - c SLOPES - 2:1 (MAXIMUM)
 - 2 TYPE 2 (NON-HAMMERED)
 - a HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM
 - b TOP WIDTH - 2 FEET (MINIMUM)
 - c SLOPES - 2:1 (MAXIMUM)
 - 3 TYPE 3 (NON-HAMMERED)
 - a HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM
 - b TOP WIDTH - 2 FEET (MINIMUM)
 - c SLOPES - 2:1 (MAXIMUM)
 - 4 TYPE 4 (NON-HAMMERED)
 - a HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM
 - b TOP WIDTH - 2 FEET (MINIMUM)
 - c SLOPES - 2:1 (MAXIMUM)
 - 5 TYPE 5 (NON-HAMMERED)
 - a HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM
 - b TOP WIDTH - 2 FEET (MINIMUM)
 - c SLOPES - 2:1 (MAXIMUM)
- B CONSTRUCT REINFORCED ROCK DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.
 - 1 DAMETER HORIZONTAL OPENINGS
 - 2 DAMETER HORIZONTAL OPENINGS
 - 3 PLACE ON MESH FOR ROCK FILTER DAM TYPES 1, 2, AND 4 AND 4-8 INCHES FOR ROCK FILTER DAM TYPE 3. REFER TO GRANULAR FILL IN SPECIFICATION SECTION NO. 02178-RIPRAP AND GRANULAR FILL.
 - 4 WIRE MESH FOLD AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOC RINGS.
 - 5 N STREAMS. SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
 - 6 SEE SPECIFICATION SECTION NO. 02184-FILTER DAMS.
 - 7 EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSION AREA AT SLOPE.



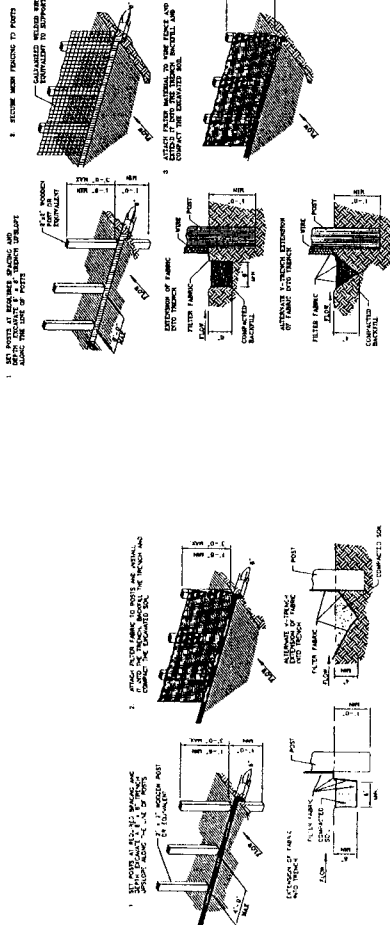
IN-CHANNEL REINFORCED ROCK DAM PLAN VIEW



REINFORCED ROCK DAM AT OUTFALL PIPE PLAN VIEW

REINFORCED ROCK DAM DETAILS

NOT TO SCALE



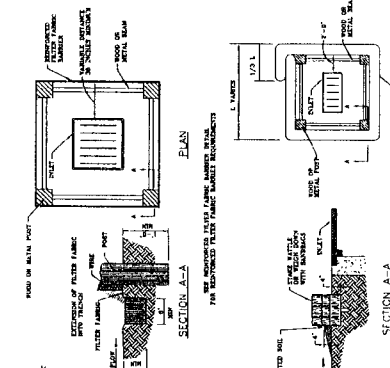
- GENERAL NOTES
1. SECURE FILTER MESH TO POSTS WITH STAPLES AT THE SLOPE.
 2. SECURE FILTER MESH TO DAM FACING.
 3. POSTS AND STAPLES TO BE PLACED AT 12 INCHES ON CENTER.
 4. FILTER MESH SHOULD BE PLACED ONE FOOT HIGHER THAN CENTER OF DEPRESSION AREA AT SLOPE.

FILTER FABRIC FENCE

NOT TO SCALE

REINFORCED FILTER FABRIC BARRIER

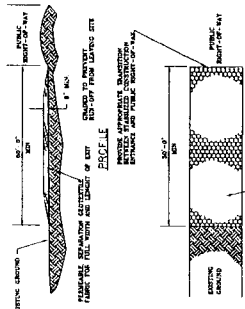
NOT TO SCALE



- GENERAL NOTES
1. SECURE FILTER MESH TO POSTS WITH STAPLES AT THE SLOPE.
 2. SECURE FILTER MESH TO DAM FACING.
 3. POSTS AND STAPLES TO BE PLACED AT 12 INCHES ON CENTER.
 4. FILTER MESH SHOULD BE PLACED ONE FOOT HIGHER THAN CENTER OF DEPRESSION AREA AT SLOPE.

INLET PROTECTION BARRIERS FOR STAGE LINETS

NOT TO SCALE

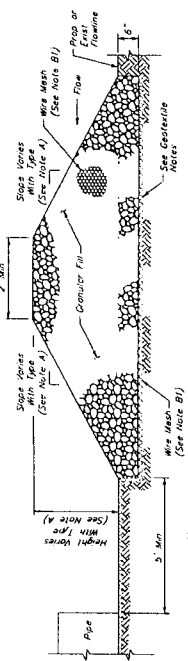


STABILIZED CONSTRUCTION ACCESS

- GENERAL NOTES
1. MINIMUM LENGTH IS 45 FEET OF CONSTRUCTION DECREASED TO 30 FEET MINIMUM IS SHORT.
 2. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.
 3. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.
 4. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.
 5. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.
 6. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.
 7. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.
 8. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.
 9. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.
 10. 12 FEET MINIMUM OF EXISTING GROUND TO BE MAINTAINED WITHIN 10 FEET OF LINET.

STABILIZED CONSTRUCTION ACCESS

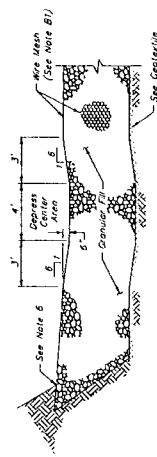
NOT TO SCALE



ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION

SECTION "A-A"

MIN. AOS
MAX. AOS
HEIGHT
MIN. AOS
MAX. AOS
HEIGHT



SECTION "B-B"

NO. 41312	REVISIONS	DATE
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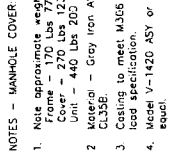


SHEET NO. 27 OF 39

1. Provide Rammed or approved equal between precast segments of the manhole.
2. For manholes deeper than 20 feet, increase size of access manholes to 72-inch or 84-inch diameter & provide safety climbing rail (Saf-T-Climb or approved equal).
3. Place manhole on new compacted (95% SPD) Bottom.
4. Polyurethane sealant exterior side only.



MANHOLE
VALVE CO
NOT TO SCALE

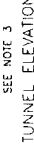


NOTES - MANHOLE COVER:

1. Note approximate weights.
Frame - 170 Lbs 77Kg
Cover - 270 Lbs 123 Kg
Unit - 440 Lbs 203 Kg
2. Material - Gray Iron ASTM A48
CL35B.
3. Casting to meet M308 proof
load specification.
4. Model V-1420 ASY or approved
equal.



32" MANHOLE COVER WITH FRAME



CASING DETAILS
NOT TO SCALE
OR WATER MAINS LESS THAN
36-INCHES IN DIAMETER



OUT VOID BETWEEN
TS DE FACE OF CASIN
D UNDISTURBED SOIL
H CONCRETE

NOTES: _____

NOTES:

1. LENGTH OF ENCASEMENT SHALL BE AS SHOWN ON THE PLAN & PROFILE DRAWINGS
2. LAY CASING PIPE IN OPEN CUT, TUNNEL OR BORE, AS NOTED ON PLAN & PROFILE DRAWINGS.
3. SEE SPECIFICATIONS FOR APPROPRIATE MODEL ACCORDING TO PIPE DIAMETER.

NOTE

1. ALL TUNNELS IN PPCM AREA ARE TO BE GROUTED

AREA ARE TO BE GROUTED

PRESSURE GROUTING (TYP)

PROVIDE GROUT HOLES
IN CASING AS SPECIFIED

* SEE SPECIFICATIONS

MINIMUM CASING/TUNNEL LINER SIZES AND THICKNESSES						
Average "E" (Sheet Pile) 11-57.3 to 12-57.3	Steel Casing/Primary Tunnel Liner	30	D/P PVC Steel	35/0.219	42/0.0747 in	42/0.0747 in
				36/0.219	42/0.0747 in	42/0.0747 in
12-57.3 to 12-57.3	Steel Casing/Primary Tunnel Liner	30	D/P PVC Steel	30/0.250	36/0.219	42/0.0747 in
				36/0.219	42/0.0747 in	42/0.0747 in
FM T092 9 Slc. 20-75.5 to 22-30.5	Steel Casing/Primary Tunnel Liner	30	D/P PVC Steel	30/0.250	36/0.219	42/0.0747 in

MINIMUM CASING/TUNNEL LINER SIZES AND THICKNESSES

FILE: AS SHOWN DON BY PKK/HF
 RE: MARCH 2010 UAN BY SN
 E NC: 0:48-325 ORC NO
 UNLIMITED SERV. BY
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SHEET NO.
29

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$$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$$

