

12-0

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 06 day of MAY, 2014, Commissioners Court
came on to be heard and reviewed the accompanying notice
of WILLIAMS GAS PIPELINES / TRANSCONTINENTAL GAS PIPE LINE CO., LLC

Job Location VAN STEINBERG ROAD

Dated 04/22/14 BOND No. 022046970, Permit No. 84564
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 Prestage, seconded
by Commissioner Morrison, 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
301 JACKSON STREET
RICHMOND, Texas 77469
281-633-7500

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

By


County Engineer

By

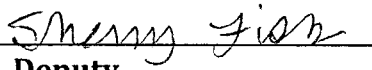
N/A

Drainage District Engineer/Manager

Presented to Commissioners Court
and approved.

Recorded in Volume 5-6-14
Minutes of Commissioners Court.

Clerk of Commissioners Court

By 
Deputy

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

AUTHORIZED

BOND NO 022046970

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, Transcontinental Gas Pipe Line Company, LLC whose address is One Williams Center, MD 48-6, Tulsa, OK, Texas, hereinafter called the Principal, and Liberty Mutual Insurance Company, a Corporation existing under and by virtue of the laws of the State of MA and authorized to do an indemnifying business in the State of Texas, and whose principal office is located at 175 Berkeley Street, Boston, MA 02116, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is TX and whose address is 175 Berkeley Street, Boston, MA 02116, hereinafter called the Surety, and held and firmly bound unto, Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of Five Thousand Dollars 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 in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein;

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

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

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

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

EXECUTED this 2nd day of April, 20 14;

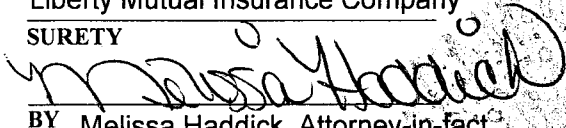
Transcontinental Gas Pipe
Line Company, LLC

PRINCIPAL

BY 

Liberty Mutual Insurance Company

SURETY

BY  Melissa Haddick, Attorney-in-fact

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 6431992

American Fire and Casualty Company
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Gina A. Rodriguez; Mary Pena; Melissa Haddick; Sandra Parker; Tannis Mattson; Terri L. Morrison

all of the city of Houston, state of TX each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 30th day of January, 2014.

American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 30th day of January, 2014, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

COMMONWEALTH OF PENNSYLVANIA
Notary Seal
Teresa Pastella, Notary Public
Plymouth Twp., Montgomery County
My Commission Expires March 28, 2017
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Gregory W. Davenport, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 2nd day of April, 2014.

By: Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

LIMITED POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that Transcontinental Gas Pipe Line Company, LLC, a Delaware limited liability company, having its principal place of business at 2800 Post Oak Boulevard, Houston, TX, hereinafter referred to as the "Company", does hereby make, constitute and appoint DAVID ENSMINGER, JOSEPH LEE, SHARON QUIMBY and BEVERLY UTTER, with the full authority hereinafter provided, the true and lawful "Attorneys-in-Fact" of the Company, authorized and empowered on behalf of the Company and in the Company's name, and for the sole and exclusive benefit of the Company and not on behalf of any other person, corporation or association, in whole or in part, to commit the Company under all surety bonds which are used in the ordinary course of business by the Company, giving and granting, individually, unto said Attorneys-in-Fact full and complete power and authority to bind the Company as fully and to the same extent as if signed by the duly authorized officers of the Company; and all the facts of said Attorneys-in-Fact, pursuant to the authority hereby given, are hereby ratified and confirmed, with the qualification that said authority to act shall terminate on December 31, 2014, and shall be expressly limited for the purpose as herein stated.

IN WITNESS WHEREOF, Transcontinental Gas Pipe Line Company, LLC has caused its name to be subscribed and its corporate seal to be affixed this 2 day of April, 2014.

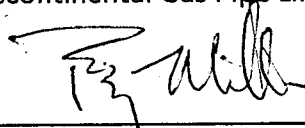
Attest:



William H. Gault
Assistant Secretary

Transcontinental Gas Pipe Line Company, LLC

By:

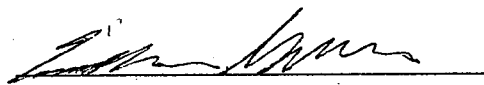
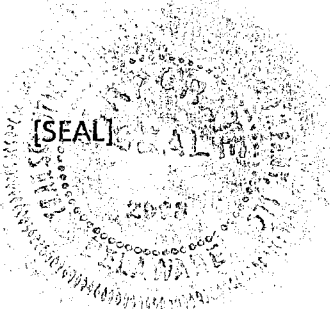


Rory L. Miller
Senior Vice President

CERTIFICATE

I, the undersigned, Assistant Secretary of Transcontinental Gas Pipe Line Company, LLC, do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy is in full force and effect on the date of this Certificate, and the Senior Vice President who executed the said Limited Power of Attorney was and is a duly elected officer of Transcontinental Gas Pipe Line Company, LLC.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Corporate Seal of Transcontinental Gas Pipe Line Company, LLC to these presents this 2 day of April, 2014.



William H. Gault
Assistant Secretary

COUNTY OF FORT BEND

Engineering Department

301 JACKSON STREET
RICHMOND, Texas 77469

Johnny Ortega
Permit Administrator

1124 Blume Road
Phone: (281) 633-7500

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

PERMIT NO. 000564

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.
- X c. Plans and specifications.

- X (2) Bond:
- District Attorney, approval when applicable.
- Perpetual bond currently posted.
- No.
- Amount
- X Performance bond submitted.
- No. 022046970
- Amount \$5,000.00
- Cashier's Check.
- No.
- Amount

- (3) Verbal permission given for emergencies, to start construction before approved in Commissioner's Court.

 Precinct Engineer Acknowledgment

 Date

 Precinct Commissioner Acknowledgment

 Date

- (4)
- Drainage District Approval when applicable

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


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

04/22/2014
Date

**FORT BEND COUNTY ENGINEERING
PERMIT DEPARTMENT
CONSTRUCTION OF DRIVEWAYS AND CULVERTS ON COUNTY EASEMENTS AND RIGHT OF WAYS
COMMERCIAL PIPE PERMIT APPLICATION
1124 BLUME ROAD ROSENBERG, TX 77471
Mailing Address: 301 Jackson Richmond, Texas 77469
(Phone) 281-633-7502 or 7503 • (Fax) 281-633-7545**

APPLICANT INFORMATION

Application No. 84564
(County Use Only)

Applicant Name Williams Gas Pipelines - Transco Cindy Goodson
Applicant Mailing Address 4233 West Richey Road
City Houston State TX Zip 77066
Work Phone (281) 895-5305 Daytime Phone (713) 376-0701 Cell
Property Owner's Name _____ Phone _____
Property Owner's Mailing Address _____
City _____ State _____ Zip _____

LOCATION OF PROPERTY

Subdivision _____ Sec _____ Lot _____ Blk _____
Physical Address Van Steinberg Road

(ATTACH A SITE MAP)

SITE USE

Driveway Curb & Gutter Section ☐ Driveway - Open Ditch Section ☒ Temporary
Culvert Only ☐ Other ☐

DRIVEWAY REQUIREMENTS

Length 20' minimum and 40' maximum Number of drives _____
(See - Fort Bend County Procedures to be followed for Commercial Driveway, and Median Openings or Modifications)
Available on website www.co-fort-bend.tx.us

Does project comply with Fort Bend County Lighting Regulation Yes () No ()
(See- Fort Bend County Outdoor Lighting Regulation on website www.co-fort-bend.tx.us)

- By signing and submitting this permit application, I am stating that I am the owner of this property and I am aware of and agree to abide by the Fort Bend County Regulations of Subdivisions and I am aware of Section 2, Item F in the Permits for the Construction of Driveways & Culverts on County Easements and Right of Ways in Fort Bend County, and am responsible to obtain all other required permits associated with the above mentioned property. Driveway and Pipe Permits shall provide that construction pursuant to the permit will be commenced within six months and be completed within nine months from the date of the permit and that fees collected for said permits shall not be refundable or transferable. I further understand the permit fee, in the form of CASH or PERSONAL CHECK or COMPANY CHECK or a CASHIERS CHECK or MONEY ORDER payable to FORT BEND COUNTY, must be attached.
- The undersigned applicant, agent or attorney hereby certifies to Commissioners' Court to be strictly bound to Commissioners' Court to construct the driveway and/or culvert in strict conformity with the plans, specifications, terms, provisions and conditions of the permit and any other written material incorporated by reference in this application.
- Other permits may be required for development. Please contact the Fort Bend County Road & Bridge Department for pipe sizing or the Fort Bend County Health Department for information on On-Site Sewage Facility permits prior to planning construction.
- Failure to possess or obtain required permits will result in legal action against the property owner as allowed by law.

C. H. Goodson
Signature of Applicant, Agent or Attorney
Cindy Goodson

4/21/14
Date

Printed Name



TRANSCO PIPELINE
Cypress Division
4233 West Richey Road
Houston, TX 77066
281/895-5300
281/895-5347 fax

April 7, 2014

Permit Administrator
Fort Bend County Engineering
P. O. Box 1449
Rosenberg, TX 77471

Re: Line 1-100, R/W 608, Temporary Construction Entrance Permit, Fort Bend County, Texas

Dear Sirs:

Williams Gas Pipelines – Transco (“Transco”) has an existing 30” diameter natural gas pipeline that crosses Van Steinberg Road approximately 250’ south of the intersection with Buls Road. In the near future, Transco plans to drive a cathodic deep well drilling rig (approximate weight of 45,000 lbs) off the east edge of Van Steinberg Road into the adjacent field. The installation of the cathodic ground bed on Transco’s existing pipeline will take approximately one week and then the drilling rig will be driven back off the property and the site immediately restored. This application is to address the installation of a temporary access off Van Steinberg Road. If any additional information is required, please do not hesitate to contact me at (281) 895-5305 or at cindy.m.goodson@williams.com.

Thank you in advance for your assistance regarding this installation. The cathodic protection of Transco’s existing pipelines is a critical part of maintaining a safe pipeline system.

Respectfully,

A handwritten signature in black ink, appearing to read "Cindy Goodson". The signature is fluid and cursive, with a large, stylized "C" and "G".

Cindy Goodson
Cypress Land Team Lead

**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. 44364 PCT. No. 1
 BOND No. 022046970

Formal notice is hereby given that _____
 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
Van Steinberg Road	Aprx 150' South of Buls Road	Aprx 20'	Temporary Construction Entrance

Along Roads and/or Drainage Ditches

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

General Description

Installation of temporary construction entrance off east side of pavement
and across ditch to adjacent field to access pipeline for maintenance.
Work should last approximately one week, weather permitting.
 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: Transcontinental Gas Pipe Line Co., LLC
 AGENT and/or OWNER

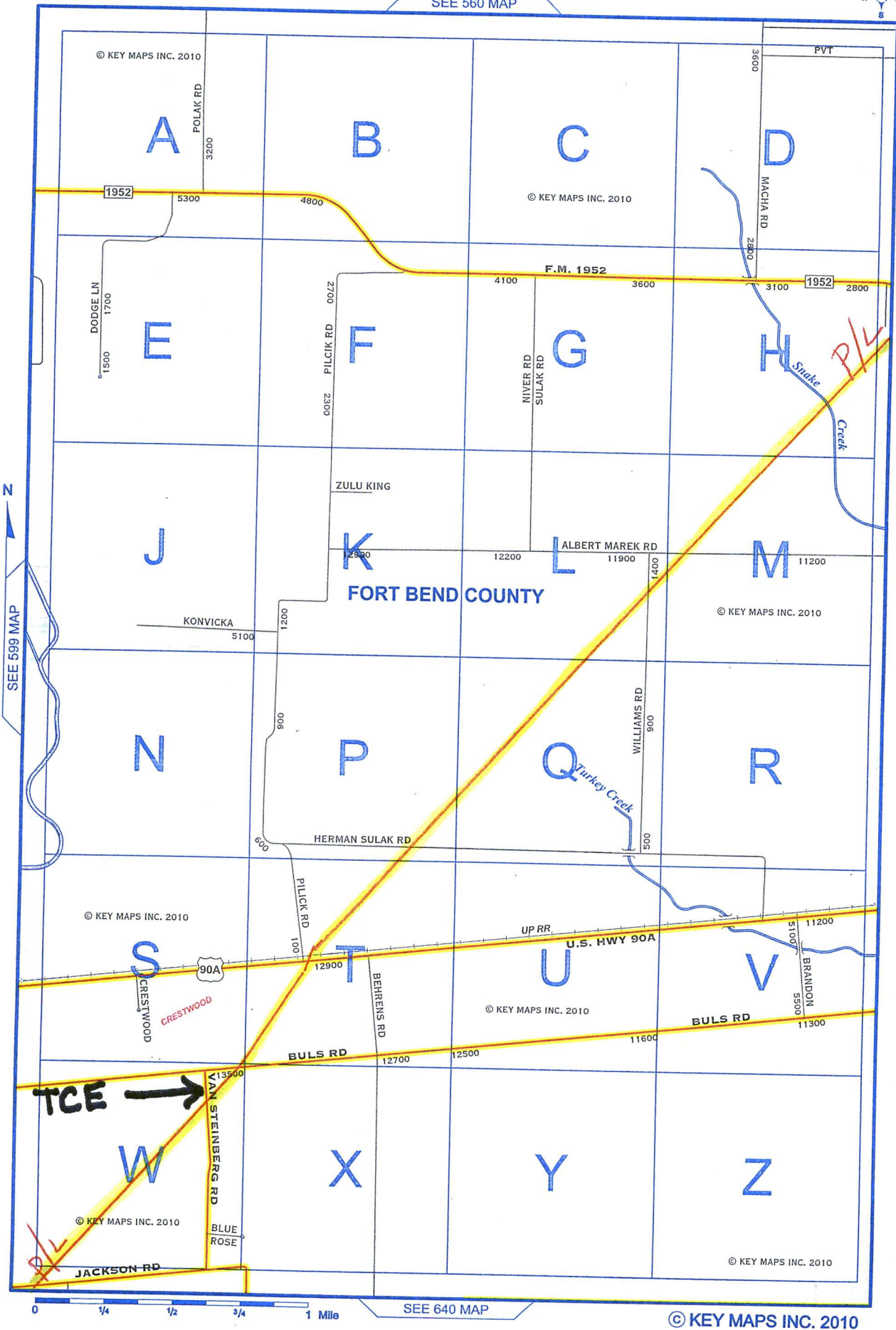
C. L. Goodson
 (Signature)

NAME & TITLE Cindy Goodson, Cypress Land Lead
 (Please Print)

DATE April 3, 2014

ADDRESS 4233 West Richey Road
 (Street/P.O. Box)
Houston TX 77066
 City State Zip

TELEPHONE NO: (713) 376-0701
 (accessible 24 hrs/day, 7 days/week)



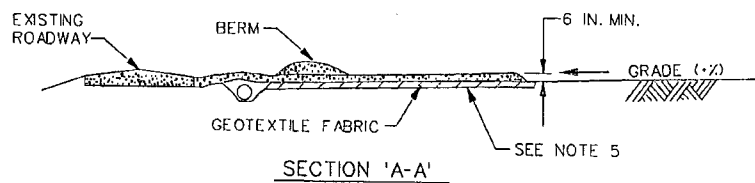
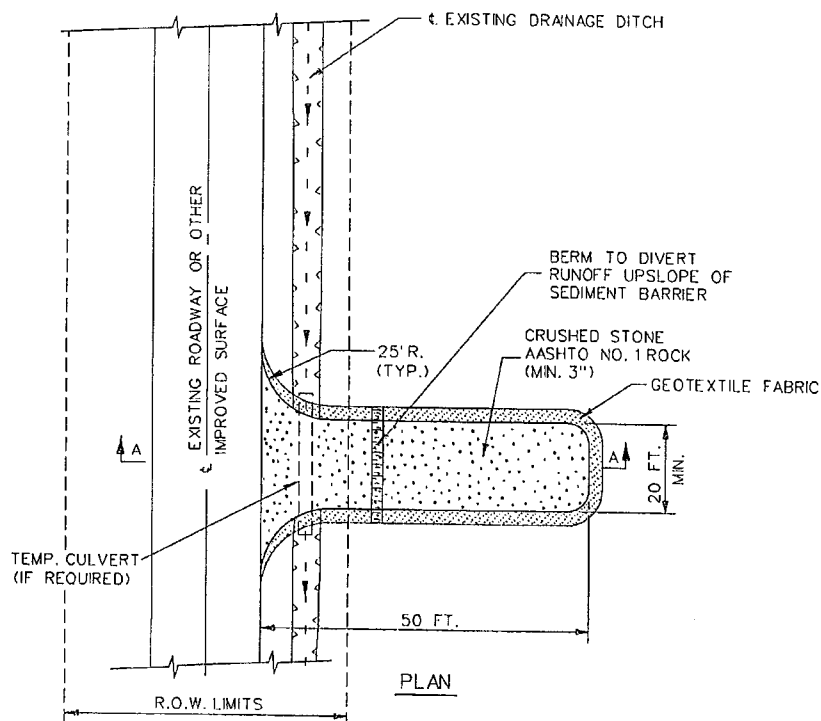
TEMPORARY CONSTRUCTION ENTRANCE – APPROXIMATE LOCATION



The temporary construction entrance will be off the easterly side of Van Steinberg Road approximately 150' south of the intersection with Buls Road, but north of the pipeline (red) to avoid a low hanging line at the pipeline. The cathodic deep well drilling rig truck will exit Van Steinberg road at the temporary construction entrance, immediately turn south and then travel down the edge of the field to the pipeline. The work on the pipeline is expected to last approximately one week, weather permitting. Immediately after the work is completed, the entrance will be removed and the site restored.

LOW HANGING LINE AT VAN STEINBERG ROAD





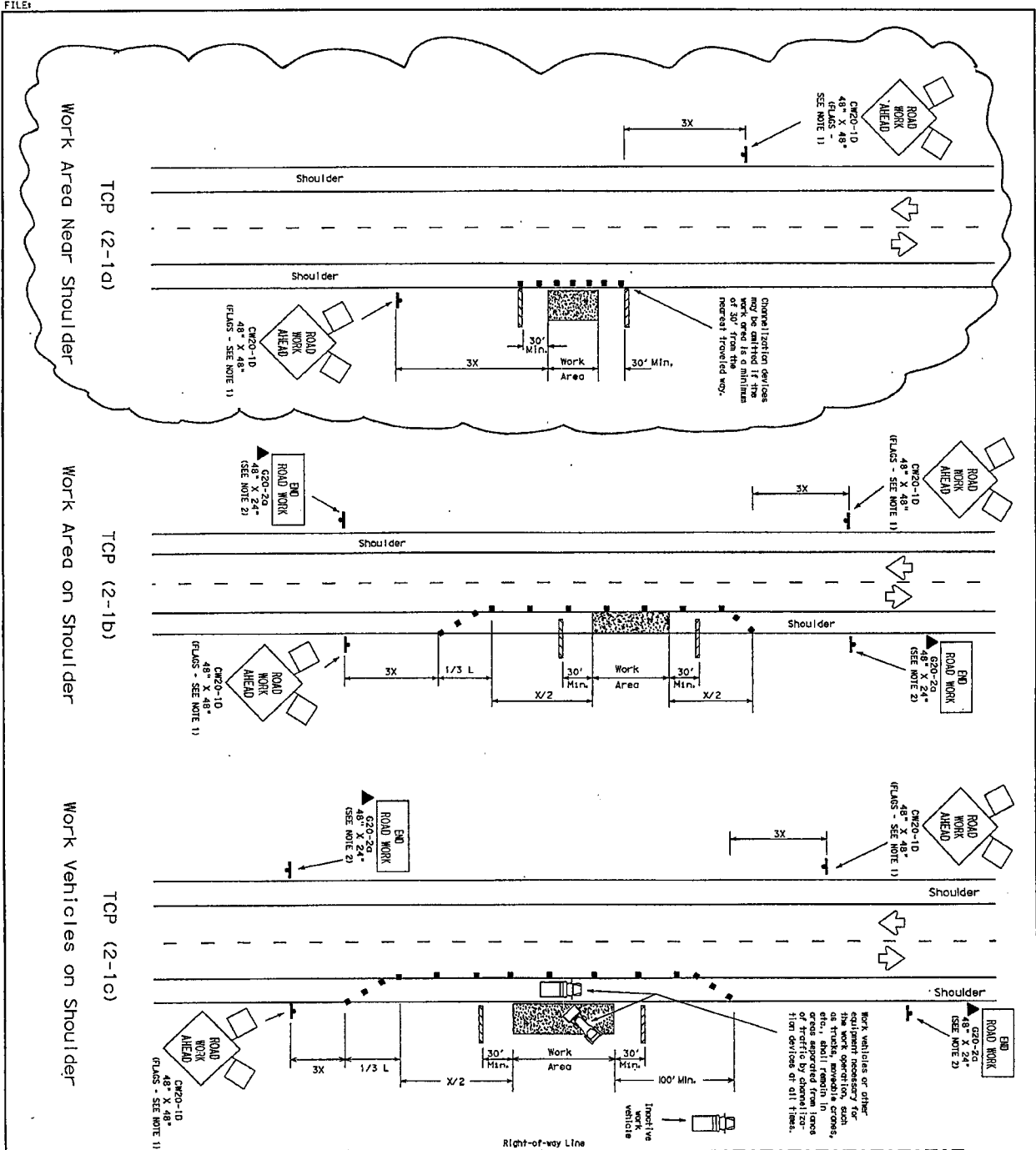
NOTES:

1. STABILIZED ENTRANCE SHALL BE INSTALLED WHERE EQUIPMENT ENTERS AND EXITS CONSTRUCTION SITES ONTO PAVED ROADWAY OR OTHER IMPROVED SURFACE.
2. LOCATE ALL ROADWAY CROSSINGS AND ENTRANCES TO ENSURE SAFE AND ACCESSIBLE CONDITIONS THROUGHOUT THE CONSTRUCTION PHASE.
3. THE ENTRANCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION IN A CONDITION WHICH WILL MINIMIZE TRACKING OF SEDIMENT ONTO A PUBLIC ROADWAY.
4. ALL SEDIMENT TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING OR SCRAPING.
5. TOP SOIL SHALL BE REMOVED TO A MINIMUM DEPTH OF 6 INCHES PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC AND STONE.
6. WHERE DRAINAGE DITCH EXISTS, CONTRACTOR SHALL PROVIDE AND INSTALL A FLUME PIPE IN ORDER TO PREVENT IMPEDEMENT OF WATER FLOW.
7. THE CONSTRUCTION ENTRANCE SHALL BE REMOVED AND AREA RESTORED AS PART OF FINAL GRADING AND CLEAN UP. REMOVAL IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.

CONSTRUCTION ENTRANCE
TEMPORARY EROSION CONTROL MEASURE (CE)

						TEXAS	
NO.	DATE	BY	REVISION DESCRIPTION	WD. NO.	CHK.	APP.	
TRANSCONTINENTAL GAS PIPE LINE CORPORATION STANDARD ENVIRONMENTAL DETAIL							Williams GAS PIPELINE
(CE) CONSTRUCTION ENTRANCE							

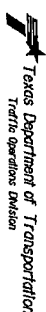
DATE: _____
FILE# _____



GENERAL NOTES:

1. Unless otherwise stated in the plans, flags attached to signs are **REQUIRED**.
2. All traffic control devices illustrated are **REQUIRED**, except those denoted with the triangle symbol may be called from stored element in the plans.
3. Type III bollards are required for both a lane of work area of all times. (See Standards for bollards details.)
4. Standard triangular signs should be placed a minimum 30' from nearest travel way.
5. On high speed facilities advance warning signs should be installed on the right side of the work area or from the beginning of a lane or shoulder taper. On low speed facilities the advance warning signs should be placed on the "w" minimum distance.

Standard Engineer Division - TE
Traffic Operations
125 East 11th Street
Austin, Texas 78701-2445
Phone (512) 416-3335
Fax (512) 416-3161
E-mail: TE-Standard@tceq.texas.gov



TRAFFIC CONTROL PLAN

TCP (2-1)-98

ARTICLES	TIDOT December 1985			
	No. TIDOT	CE TIDOT	Wm TIDOT	CI TIDOT
2-94	Can. 2527	A.D.		WIDOM
8-95				
1-87				
4-58				
	1957	QuART		24257 144
161				

Standard Speed	Formula	Minimum Barely Visible Object Length at 1000 Feet	Stopping Distance at 1000 Feet	Suggested Maximum Stopping Distance at 1000 Feet	Minimum Stopping Distance at 1000 Feet
30		150	165	180	30'
35		205	225	245	35'
40		255	295	320	40'
45		300	350	380	45'
50		350	405	440	50'
55		400	465	500	55'
60		450	525	560	60'
65		500	585	620	65'
70		550	645	680	70'

Standard Speed	Formula	Minimum Barely Visible Object Length at 1000 Feet	Stopping Distance at 1000 Feet	Suggested Maximum Stopping Distance at 1000 Feet	Minimum Stopping Distance at 1000 Feet
30		150	165	180	30'
35		205	225	245	35'
40		255	295	320	40'
45		300	350	380	45'
50		350	405	440	50'
55		400	465	500	55'
60		450	525	560	60'
65		500	585	620	65'
70		550	645	680	70'

Standard Speed	Formula	Minimum Barely Visible Object Length at 1000 Feet	Stopping Distance at 1000 Feet	Suggested Maximum Stopping Distance at 1000 Feet	Minimum Stopping Distance at 1000 Feet
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35		205	225	245	35'
40		255	295	320	40'
45		300	350	380	45'
50		350	405	440	50'
55		400	465	500	55'
60		450	525	560	60'
65		500	585	620	65'
70		550	645	680	70'

Standard Speed	Formula	Minimum Barely Visible Object Length at 1000 Feet	Stopping Distance at 1000 Feet	Suggested Maximum Stopping Distance at 1000 Feet	Minimum Stopping Distance at 1000 Feet
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35		205	225	245	35'
40		255	295	320	40'
45		300	350	380	45'
50		350	405	440	50'
55		400	465	500	55'
60		450	525	560	60'
65		500	585	620	65'
70		550	645	680	70'

Standard Speed	Formula	Minimum Barely Visible Object Length at 1000 Feet	Stopping Distance at 1000 Feet	Suggested Maximum Stopping Distance at 1000 Feet	Minimum Stopping Distance at 1000 Feet
30		150	165	180	30'
35		205	225	245	35'
40		255	295	320	40'
45		300	350	380	45'
50		350	405	440	50'
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