

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

13F

On this 27 day of AUGUST, 2013, Commissioners Court
came on to be heard and reviewed the accompanying notice
of ADVANCED CONCRETE & CONSTRUCTION

Job Location KNIGHT LAKE COURT

Dated 08/07/13 Bond No. CMB-11711-00, Permit No. 84409
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 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
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



County Engineer

By

Drainage District Engineer/Manager

Presented to Commissioners Court
and approved.

Recorded in Volume 82713
Minutes of Commissioners Court.

Clerk of Commissioners Court

By Sherry Fier
Deputy

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

AUTHORIZED

BOND NO CMB-11711-00

THE STATE OF TEXAS §
 KNOW
COUNTY OF FORT BEND §

ALL MEN BY THESE PRESENTS:

THAT WE, Advanced Concrete & Construction whose address is 11007 W Hardy Rd Houston, TX 77076, Texas hereinafter called the Principal, and Insurors Indemnity Company, a Corporation existing under and by virtue of the laws of the State of Texas and authorized to do an indemnifying business in the State of Texas, and whose principal office is located at 225 South 5th Street Waco, TX 76701, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is Texas and whose address is 225 South 5th Street Waco, TX 76701, 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 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.

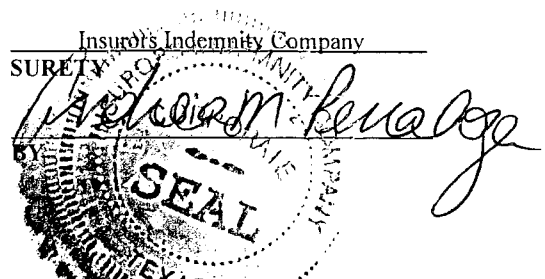
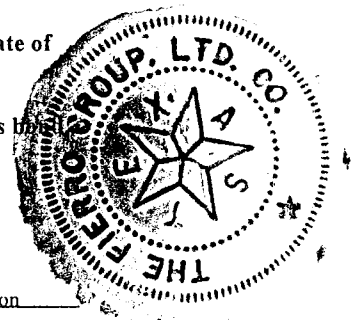
EXECUTED this 1st day of August, 2013.

Advanced Concrete & Construction
PRINCIPAL

BY

Insurors Indemnity Company
SURETY

BY



INSURORS INDEMNITY *Companies*

POWER OF ATTORNEY of INSURORS INDEMNITY COMPANY Waco, Texas

KNOW ALL PERSONS BY THESE PRESENTS:

Number: CMB-11711-00

That INSURORS INDEMNITY COMPANY, Waco, Texas, organized and existing under the laws of the State of Texas, and authorized and licensed to do business in the State of Texas and the United States of America, does hereby make, constitute and appoint

Andrea M. Penaloza of the City of Houston, State of TX

as Attorney in Fact, with full power and authority hereby conferred upon him to sign, execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, all of the following classes of document, to-wit:

Indemnity, Surety and Undertakings that may be desired by contract, or may be given in any action or proceeding in any court of law or equity; Indemnity in all cases where indemnity may be lawfully given and with full power and authority to execute consents and waivers to modify or change or extend any bond or document executed for this Company.

INSURORS INDEMNITY COMPANY

Attest:

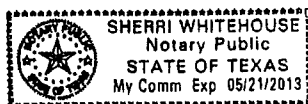
Tammy Tieperman
Tammy Tieperman, Secretary

By:

Thomas G. Chase, Jr.
Thomas G. Chase, Jr., Chairman and CEO

State of Texas
County of McLennan

On the 8th day of July, 2009, before me a Notary Public in the State of Texas, personally appeared Thomas G. Chase, Jr. and Tammy Tieperman, who being by me duly sworn, acknowledged that they executed the above Power of Attorney in their capacities as Chairman and Chief Executive Officer, and Corporate Secretary, respectively, of Insurors Indemnity Company, and acknowledged said Power of Attorney to be the voluntary act and deed of the Company.



Sherri Whitehouse
Notary Public, State of Texas

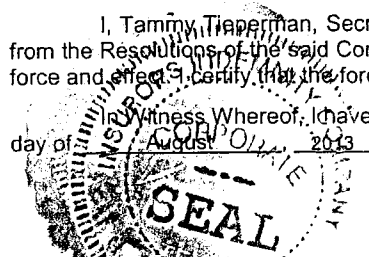
Insurors Indemnity Company certifies that this Power of Attorney is granted under and by authority of the following resolutions of the Company adopted by the Board of Directors on July 8, 2009:

RESOLVED, that all bonds, undertakings, contracts or other obligations may be executed in the name of the Company by persons appointed as Attorney in Fact pursuant to a Power of Attorney issued in accordance with these Resolutions. Said Power of Attorney shall be executed in the name and on behalf of the Company either by the Chairman and CEO or the President, under their respective designation. The signature of such officer and the seal of the Company may be affixed by facsimile to any Power of Attorney, and, unless subsequently revoked and subject to any limitation set forth therein, any such Power of Attorney or certificate bearing such facsimile signature and seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signature and seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is validly attached.

RESOLVED, that Attorneys in Fact shall have the power and authority, subject to the terms and limitations of the Power of Attorney issued to them, to execute and deliver on behalf of the Company and to attach the seal of the Company to any and all bonds and undertakings, and any such instrument executed by such Attorneys in Fact shall be binding upon the Company as if signed by an Executive Officer and sealed and attested to by the Secretary or Assistant Secretary of the Company.

I, Tammy Tieperman, Secretary of Insurors Indemnity Company, do hereby certify that the foregoing is a true excerpt from the Resolutions of the said Company as adopted by its Board of Directors on July 8, 2009, and that this Resolution is in full force and effect. I certify that the foregoing Power of Attorney is in full force and effect and has not been revoked.

In Witness Whereof, I have set my hand and the seal of INSURORS INDEMNITY COMPANY on this 1st day of August, 2009



Tammy Tieperman
Tammy Tieperman, Secretary

NOTE: IF YOU HAVE ANY QUESTION REGARDING THE VALIDITY OR WORDING OF THIS POWER OF ATTORNEY, PLEASE CALL 800 933 7444 OR WRITE TO US AT P. O. BOX 2683, WACO, TEXAS 76702-2683 OR EMAIL US AT CONFIRMATION@INSURORS.COM.

IMPORTANT NOTICE - AVISO IMPORTANTE

To obtain information or make a complaint:

You may call Insurors Indemnity Company's toll-free telephone number for information or to make a complaint at:

1-800-933-7444

You may also write to Insurors Indemnity Company at:

P.O. Box 2683
Waco, TX 76702-2683
Or
225 South Fifth Street
Waco, TX 76701

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

1-800-252-3439

You may write the Texas Department of Insurance at:

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

PREMIUM OR CLAIM DISPUTES:

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

ATTACH THIS NOTICE TO YOUR POLICY:

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

Para obtener informacion o para someter una queja:

Usted puede llamar al numero de telefono gratis de Insurors Indemnity Company's para informacion o para someter una queja al

1-800-933-7444

Usted tambien puede escribir a Insurors Indemnity Company:

P.O. Box 2683
Waco, TX 76702-2683
O
225 South Fifth Street
Waco, TX 76701

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

1-800-252-3439

Puede escribir al Departamento de Seguros de Texas:

P.O. Box 149104
Austin, TX 78714-9104
Fax: 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 concemiente a su prima o a un reclamo, debe comunicarse con el agente o la compania primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA:

Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto y esta dado para acatar con Section 2253.021 Government Code y Section 53.202, Property Code efectivo, Septiembre 1, 2001.

Engineering Department

1124 Blume Road
Phone: (281) 341-7500

PERMIT NO.

00-409

 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. CMB-11711-00

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)

08/07/2013

Date _____

**FORT BEND COUNTY ENGINEERING
PERMIT DEPARTMENT
CONSTRUCTION OF DRIVEWAYS AND CULVERTS ON COUNTY EASEMENTS AND RIGHT OF WAYS
COMMERCIAL PIPE PERMIT APPLICATION
P.O. BOX 1449 • 1124 BLUME ROAD
ROSENBERG, TX 77471
(Phone) 281-633-7502 or 7503 • (Fax) 281-342-7366**

APPLICANT INFORMATION

Application No. 84409

(County Use Only)

Applicant Name ADVANCED CONCRETE AND CONSTRUCTION
Applicant Mailing Address 11007 W. HARVY ROAD
City HOUSTON State TX Zip 77076
Work Phone 713-692-2781 Daytime Phone 832-607-0734
Property Owner's Name TODD WILLIAMSON Phone 713-449-4461
Property Owner's Mailing Address 4514 KNIGHT LAKE COURT
City RICHMOND State TX Zip 77469

LOCATION OF PROPERTY

Subdivision WATERSIDE ESTATES Sec 6 Lot 58 Blk 1
Physical Address 4514 KNIGHT LAKE COURT, RICHMOND TX 77469

(ATTACH A SITE MAP)

SITE USE

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

DRIVEWAY REQUIREMENTS

Length 20' minimum and 40' maximum Number of drives 1
(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.

Signature of Applicant, Agent or Attorney

Date

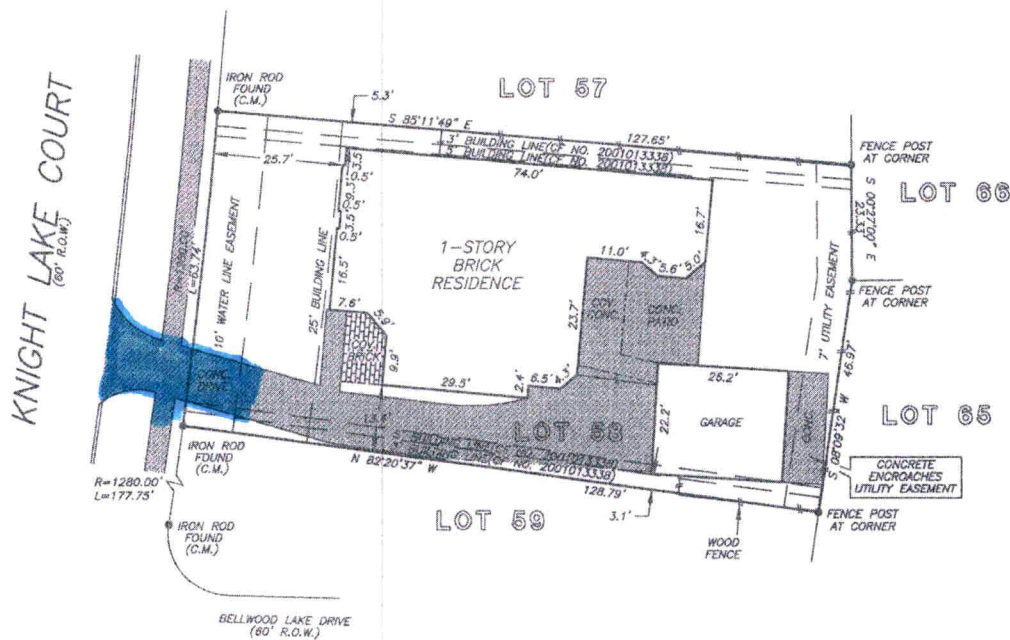
EDUARDO LOZANO
Printed Name

GF NO. 04-42204562 ALAMO TITLE
 ADDRESS: 4514 KNIGHT LAKE COURT
 RICHMOND, TEXAS 77469
 BORROWER: ~~MARK E. WILLIAMSON~~
bold SANDRA M. WILLIAMSON

LOT 58, BLOCK 1 WATERSIDE ESTATES, SECTION 6

ACCORDING TO THE MAP OR PLAT THEREOF
 RECORDED UNDER SLIDE NO. 2068/B OF THE PLAT
 RECORDS OF FORT BEND COUNTY, TEXAS

SCALE: 1" = 30'



NOTE: BUILDING LINES AS PER CF NO. 2001013337 & 2001013338.

NOTE: AGREEMENT BY AND BETWEEN DEVELOPER AND H. L. & P. FOR INSTALLATION OF OVERHEAD/UNDERGROUND ELECTRICAL DISTRIBUTION SYSTEM OF NO. 2001058907.

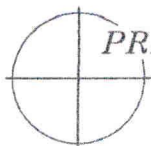
NOTE: AN UNDERGROUND EASEMENT TWO FEET WIDE, FOR AUDIO AND VIDEO COMMUNICATION FACILITIES, AS PER CF NOS. 2002105004 & 2000014166.

NOTE: BLANKET EASEMENT FOR ENCROACHMENTS CREATED BY CONSTRUCTION SETTLING & OVERHANG OF IMPROVEMENTS AS PER CF NO. 2000014166.

THIS PROPERTY DOES NOT LIE WITHIN THE 100 YEAR FLOOD PLAIN AS ESTABLISHED BY THE U.S. DEPT. OF HOUSING & URBAN DEVELOPMENT.
 COMMUNITY/PANEL NO. 48157C 0115 J
 MAP REVISION: 1/3/97
 ZONE X

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND, THAT THIS PLAT CORRECTLY REPRESENTS THE FACTS FOUND AT THE TIME OF SURVEY AND THAT THERE ARE NO ENCROACHMENTS APPARENT ON THE GROUND, EXCEPT AS SHOWN HEREON. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY AND ABSTRACTING PROVIDED IN THE ABOVE REFERENCED TITLE COMMITMENT WAS RELIED UPON IN PREPARATION OF THIS SURVEY.

RECORD BEARING: SLIDE NO. 2068/B F.B.C.P.R.



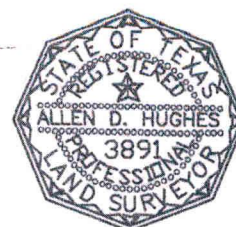
PRECISION SURVEYORS

PROFESSIONAL LAND SURVEYS

1-800-LANDSURVEY 281-496-1586
 1-800-526-3787 FAX 281-496-1887

14825 MEMORIAL DRIVE SUITE 8100 HOUSTON, TEXAS 77079

Allen D. Hughes
 ALLEN D. HUGHES
 PROFESSIONAL LAND SURVEYOR
 NO. 3891
 DRAWING NO. 04-01361
 FEBRUARY 17, 2004



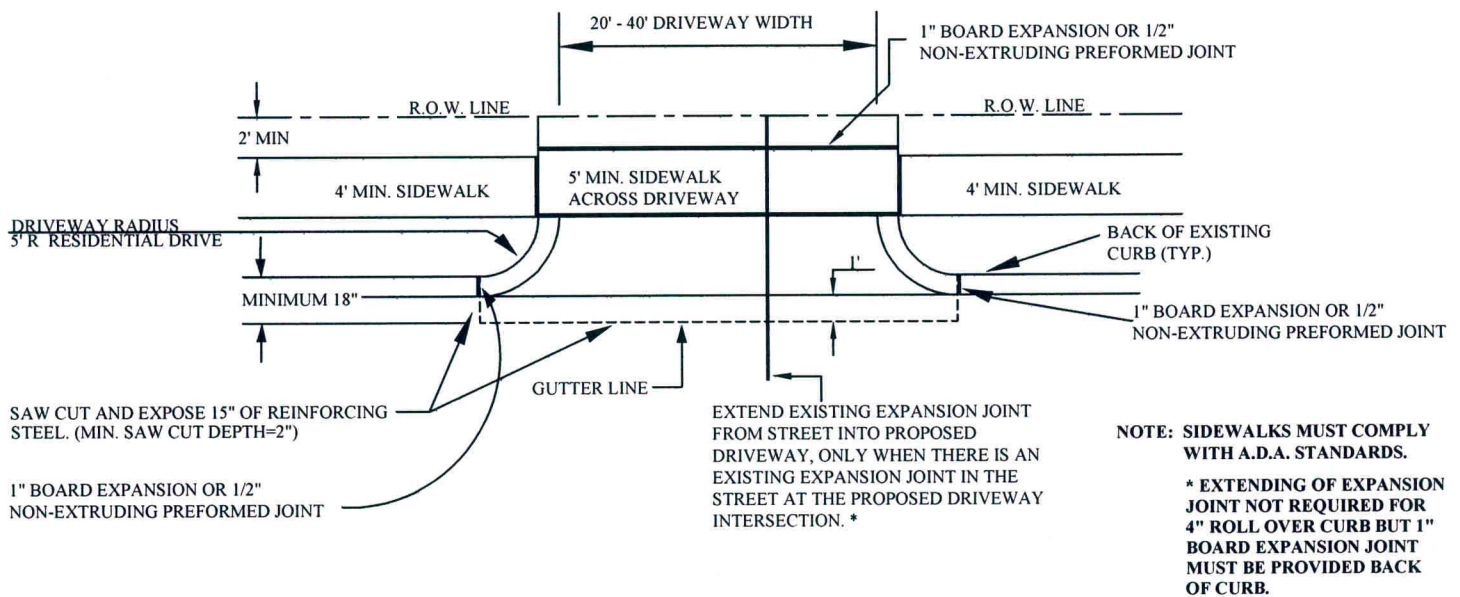
DRAWN BY: JG

Google

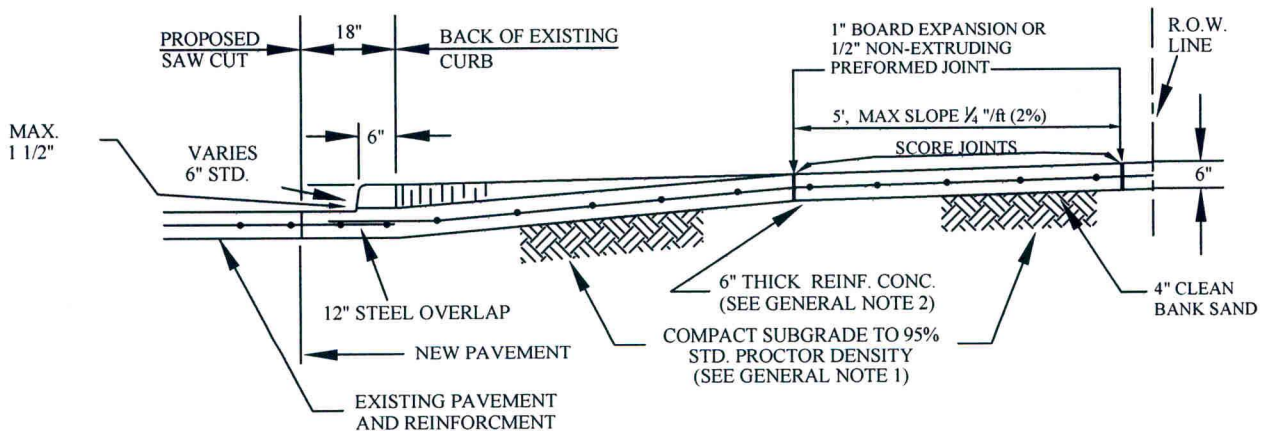
Address **4514 Knight Lake Ct**
Richmond, TX 77406VICINITY MAP

WHEN A RESIDENTIAL SIDEWALK, DRIVEWAY, CURB OR GUTTER IS CONSTRUCTED, RECONSTRUCTED, REPAIRED OR REGRADED ON COUNTY RIGHT-OF-WAY. FOR USE WITH CONCRETE OR ASPHALT CURB TYPE STREETS, USE SECTIONS APPLICABLE.

A. USE FOR ALL PROPOSED EXISTING CURB REMOVAL FOR DRIVEWAYS (PLAN VIEW NOT TO SCALE)



B. USE FOR ALL PROPOSED DRIVES ON CURBED TYPE STREETS



GENERAL NOTES:

1. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO R.O.W. LINE, COMPACT TO 95% OF STANDARD PROCTOR DENSITY(+/- 2% OPT. MOISTURE). THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.
2. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED REINFORCING BARS (ASTM A615, GRADE 60, UNLESS NOTED) SPACED AT 24" C.C., EACH WAY, WITH 12" MINIMUM LAP FROM PROPOSED SAW CUT TO R.O.W. LINE.
3. PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT (5 1/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE), CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301), 6" THICK, FROM PROPOSED SAW CUT TO R.O.W. LINE.
4. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT (5 1/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE), CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301), 4 1/2" THICK.

**SIDEWALKS & DRIVEWAYS ON
CURB TYPE STREETS
RESIDENTIAL AREA**

**DRAWN BY: L. BRDECKA
DATE DRAWN: 2-1-94**

**REVISED BY: R. GOMEZ
DATE REVISED: 11-1-05**

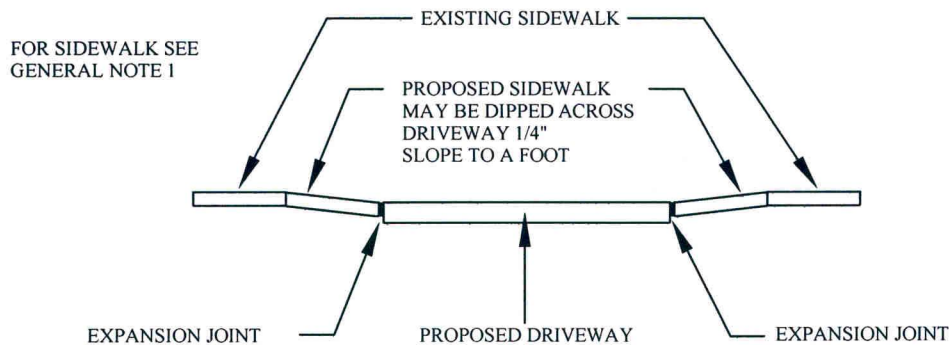
**APPROVED BY: L. HOOD
DATE: 2-1-94**

**DRAWING NO.
FBC-010A**

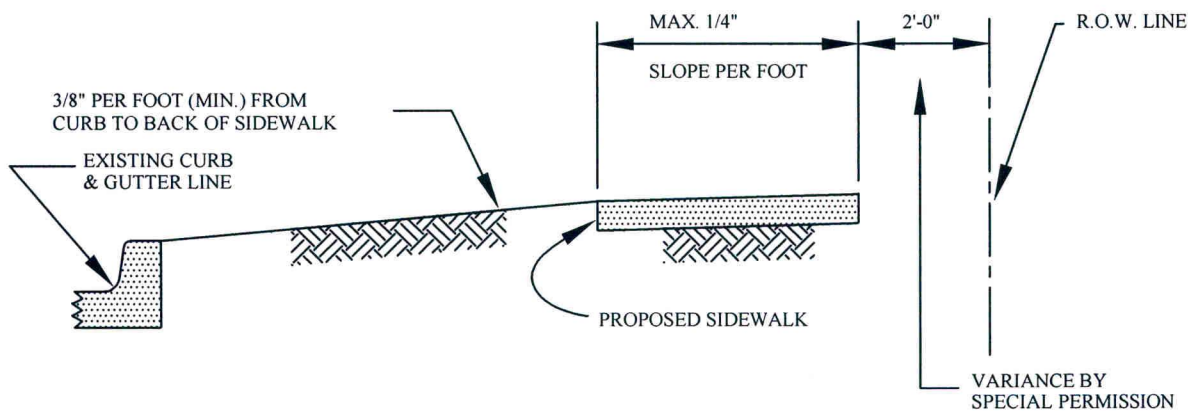
FORT BEND COUNTY ENGINEERING DEPARTMENT

WHEN A RESIDENTIAL SIDEWALK, DRIVEWAY, CURB OR GUTTER IS CONSTRUCTED, RECONSTRUCTED, REPAIRED OR REGRADED ON COUNTY RIGHT-OF-WAY. FOR USE WITH CONCRETE OR ASPHALT CURBED TYPE STREETS, USE SECTIONS APPLICABLE.

C. USE WHEN PROPOSED DRIVEWAY IS TO BE BUILT WITH EXISTING SIDEWALKS WITH EXCESSIVE GRADE:



D. USE WHEN SIDEWALK TO BE BUILT OTHER THAN DRIVEWAY:



GENERAL NOTES:

1. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT (5 ½ SACKS OF CEMENT PER CUBIC YARD OF CONCRETE), CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301), 4 ½ " THICK AND MINIMUM 4' WIDTH.

**SIDEWALKS & DRIVEWAYS ON
CURB TYPE STREETS
RESIDENTIAL AREA**

**DRAWN BY: L. BRDECKA
DATE DRAWN: 2-1-94**

**REVISED BY: R. GOMEZ
DATE REVISED: 11-1-05**

**APPROVED BY: L. HOOD
DATE: 2-1-94**

**DRAWING NO.
FBC-010B**

FORT BEND COUNTY ENGINEERING DEPARTMENT

Traffic Control Plan

As per Section 6C.11 Flagger Method of One Lane, Two Way Street, Paragraph 02 of the Texas Manual on Uniform Traffic Control Devices for Streets and Highways (TMUTCD) we propose to control traffic by using a flagger.

TRAFFIC CONTROL

Guidance:

- 07 A merging taper should be long enough to enable merging drivers to have adequate advance warning and sufficient length to adjust their speeds and merge into an adjacent lane before the downstream end of the transition. Multiple merging tapers should have a tangent length of at least $2L$ between them. Adjoining merging and shifting tapers should have a tangent length of at least $1/2 L$ between them.

Support:

- 08 A shifting taper is used when a lateral shift is needed. When more space is available, a longer than minimum taper distance can be beneficial. Changes in alignment can also be accomplished by using horizontal curves designed for normal highway speeds.

Guidance:

- 09 A shifting taper should have a length of at least $1/2 L$ (see Tables 6C-3 and 6C-4).

Support:

- 10 A shoulder taper might be beneficial on a high-speed roadway where shoulders are part of the activity area and are closed, or when improved shoulders might be mistaken as a driving lane. In these instances, the same type, but abbreviated, closure procedures used on a normal portion of the roadway can be used.

Guidance:

- 11 If used, shoulder tapers should have a length of at least $1/3 L$ (see Tables 6C-3 and 6C-4). If a shoulder is used as a travel lane, either through practice or during a TTC activity, a normal merging or shifting taper should be used.

Support:

- 12 A downstream taper might be useful in termination areas to provide a visual cue to the driver that access is available back into the original lane or path that was closed.

Guidance:

- 13 If used, a downstream taper should have a minimum length of 50 feet and a maximum length of 100 feet with devices placed at a spacing of approximately 20 feet.

Support:

- 14 The one-lane, two-way taper is used in advance of an activity area that occupies part of a two-way roadway in such a way that a portion of the road is used alternately by traffic in each direction.

Guidance:

- 15 Traffic should be controlled by a flagger or temporary traffic control signal (if sight distance is limited), or a STOP or YIELD sign. A short taper having a minimum length of 50 feet and a maximum length of 100 feet with channelizing devices at approximately 20-foot spacing should be used to guide traffic into the one-lane section, and a downstream taper should be used to guide traffic back into their original lane.

Support:

- 16 An example of a one-lane, two-way traffic taper is shown in Figure 6C-3.

Section 6C.09 Detours and Diversions

Support:

- 01 A detour is a temporary rerouting of road users onto an existing highway in order to avoid a TTC zone.

Guidance:

- 02 Detours should be clearly signed over their entire length so that road users can easily use existing highways to return to the original highway.

Support:

- 03 A diversion is a temporary rerouting of road users onto a temporary highway or alignment placed around the work area.

Section 6C.10 One-Lane, Two-Way Traffic Control

Standard:

- 01 Except as provided in Paragraph 5, when traffic in both directions must use a single lane for a limited distance, movements from each end shall be coordinated.

Guidance:

- 02 Provisions should be made for alternate one-way movement through the constricted section via methods such as flagger control, a pilot car, traffic control signals, or stop or yield control.

- 03 Control points at each end should be chosen to permit easy passing of opposing lanes of vehicles.
- 04 If traffic on the affected one-lane roadway is not visible from one end to the other, then flagging procedures, a pilot car with a flagger used as described in Section 6C.13, or a traffic control signal should be used to control opposing traffic flows.

Option:

- 05 If the work space on a low-volume street or road is short and road users from both directions are able to see the traffic approaching from the opposite direction through and beyond the worksite, the movement of traffic through a one-lane, two-way constriction may be self-regulating.

Section 6C.11 Flagger Method of One-Lane, Two-Way Traffic Control

Guidance:

- 01 Except as provided in Paragraph 2, traffic should be controlled by a flagger at each end of a constricted section of roadway. One of the flaggers should be designated as the coordinator. To provide coordination of the control of the traffic, the flaggers should be able to communicate with each other orally, electronically, or with manual signals. These manual signals should not be mistaken for flagging signals.

Option:

- 02 When a one-lane, two-way TTC zone is short enough to allow a flagger to see from one end of the zone to the other, traffic may be controlled by either a single flagger or by a flagger at each end of the section.

Guidance:

- 03 When a single flagger is used, the flagger should be stationed on the shoulder opposite the constriction or work space, or in a position where good visibility and traffic control can be maintained at all times. When good visibility and traffic control cannot be maintained by one flagger station, traffic should be controlled by a flagger at each end of the section.

Section 6C.12 Flag Transfer Method of One-Lane, Two-Way Traffic Control DELETED

Section 6C.13 Pilot Car Method of One-Lane, Two-Way Traffic Control

Option:

- 01 A pilot car may be used to guide a queue of vehicles through the TTC zone or detour.

Guidance:

- 02 The pilot car should have the name of the contractor or contracting authority prominently displayed.

Standard:

- 03 The PILOT CAR FOLLOW ME (G20-4) sign (see Section 6F.58) shall be mounted on the rear of the pilot vehicle.
- 04 A flagger shall be stationed on the approach to the activity area to control vehicular traffic until the pilot vehicle is available.

Section 6C.14 Temporary Traffic Control Signal Method of One-Lane, Two-Way Traffic Control

Option:

- 01 Traffic control signals may be used to control vehicular traffic movements in one-lane, two-way TTC zones (see Figure 6H-12 and Chapter 4H).

Section 6C.15 Stop or Yield Control Method of One-Lane, Two-Way Traffic Control

Option:

- 01 STOP or YIELD signs may be used to control traffic on low-volume roads at a one-lane, two-way TTC zone when drivers are able to see the other end of the one-lane, two-way operation and have sufficient visibility of approaching vehicles.

Guidance:

- 02 If the STOP or YIELD sign is installed for only one direction, then the STOP or YIELD sign should face road users who are driving on the side of the roadway that is closed for the work activity area.