

**PERMIT TO CONSTRUCT UTILITY
IN WALLER COUNTY RIGHT-OF-WAY**

ROAD: **Morton Rd & Pitts Rd.**

DATE: **08/07/2024**

To: Tennessee Gas Pipeline LLC
[Kinder Morgan and Subcontractors]
1001 Louisiana St, Suite 1000
Houston, TX 77002

Permit # 24.UP.027

The location on the right-of-way of your proposed buried line as shown by the accompanying notice dated **08/21/2024** is approved.

Your attention is directed to Art. 1436A (for power lines) and Art. 1416 (for communication lines) Vernon's Annotated Texas Civil Statutes with particular attention to the following provisions:

1. The Court Commission may designate the place along the right-of-way where such lines shall be constructed.
2. Emplacement of buried lines shall be a minimum of 36 inches below the flow line of the existing ditch. For installations parallel to the right-of-way, the utility shall be located within three (3) feet of the edge of the right-of-way, unless otherwise approved by the County.
3. All placement of lines beneath roadways and asphalt or concrete paved driveways shall be jacked or bored. No open cut will be allowed within five feet of the edge of roadways or such driveways. Open cuts on unpaved driveways shall be performed only with a trenching machine and shall not be excavated. In such cases the trench shall be backfilled and compacted. The driveway surface shall be restored to its original condition. Any variance to these requirements shall have the Commissioners' Court approval.
4. All buried water lines shall be marked thoroughly with detectable tracer wire. All other lines shall be marked thoroughly with detectable underground warning tape. Public to be safe-guarded by use of construction signs and barricades. Identification markers shall be placed along right-of-way lines, that is readily identifiable, indicating name of Company, type of line and emergency contact number.
5. Restore roads to their original condition. Trench is to be back-tracked, dragged, graded and filled as necessary to minimize erosion and sedimentation resulting from the proposed installation. Ditches are to be left clear for drainage.
6. The Court Commission may require the owner to relocate this line, for valid reasons under the law by giving thirty (30) days written notice.

The contractor must notify the County Engineer at (979) 826-7670, forty-eight (48) hours prior to starting construction of the line in order that we may have a representative present. An inspection of the line installation is required prior to backfilling the excavation to confirm proper cover depth.

SPECIAL PROVISIONS:

WALLER COUNTY COMMISSIONERS' COURT

Carbett "Trey" J. Duhon III, County Judge

It is ORDERED by the Court on motion by Commissioner _____, duly seconded by Commissioner _____, that the above and foregoing request be and the same is hereby approved, with _____ members present voting in favor and _____ members present voting opposed. The County Engineer is authorized to comply with the above requests.

Date

Debbie Hollan, County Clerk

Deputy

24.UT221

NOTICE OF PROPOSED UTILITY WORK IN WALLER COUNTY RIGHT-OF-WAY

Formal notice is hereby given that Tennessee Gas Pipeline LLC. (utility contractor) proposes to place a

Pipeline Excavation within the right-of-way of Morton rd. and Pitts rd. as follows:
(street)

Provide details for location, length, construction method, design (i.e. the dimensions from ROW line, edge of curb or pavement), etc.

Excavate appoximately 20' wide by 50' long to expose the existing utility 30" pipeline. Plan will require excacation within the bar ditch of

Morton rd. and Pitts rd. to cut out and replace pipe. No excavation within the roadway. Equipment and Materials will staged on the southside of Morton Rd. and east of Pitts rd.

The excavation and pipe replacement will be constructed and maintained on the road right-of-way as directed by Waller County Road & Bridge in accordance with governing laws. Our firm further understands that the County considers proper traffic control measures as those complying with applicable portions of the Texas Manual on Uniform Traffic Control Devices required for adoption by the "Transportation Code" (Ch 251).

The location and description of the proposed work and appurtenances is more fully shown by a PDF drawing and traffic control attached to this notice.

Construction is proposed to begin on or after the 21 day of August, 2024.

Firm: Tennessee Gas Pipeline LLC.

Address: 1001 Louisiana st. Suite 1000

By: Kinder Morgan and Subcontractors

Houston TX 77002

Signature: Christopher Brisco

Phone: 832-581-9271

Title: Project Manager

Email: Chris_brisco@kindermorgan.com

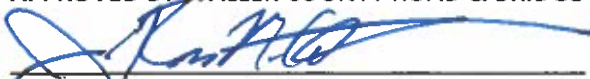
APPROVAL

This application is hereby approved subject to the following understandings and restrictions.

It is expressly understood that the said Waller County does not hereby imply to grant any right, claim, title or easement in or upon this County Road; and it is further understood that in the future, should Waller County, for any reason, need to work, improve, relocate, widen, increase, add to, decrease, or in any manner change the structure of this road or right-of-way, this line, if affected, will be moved at the direction of the Waller County Engineer or Road Administrator with thirty (30) days written notice.

This installation work shall not damage any part of the roadway and adequate provisions shall be made to cause a minimum of inconvenience to traffic and adjacent property owners. Permit shall be effective upon acceptance date of Formal Notice presentation in Commissioners Court, for a duration of one (1) year, with the opportunity of a six (6) month extension after a written request is sent and approved by the County Engineer.

APPROVED BY WALLER COUNTY ROAD & BRIDGE DEPT.


County Engineer or Road Administrator

8-6-24
Date

Traffic Controls Required: Y N

Traffic Controls Reviewed By: RJPC

Bond: Y N Bond Amount (\$):

Floodplain Dev. Permit Required: Y N

Permit #: 4 Precinct #: 4

R&B Inspector: ROBERT J. GOODSPERD

Waller County Road & Bridge Department

775 Business 290 East, Hempstead, TX 77445 Phone (979) 826-7670

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Rev. 082023.1



Tennessee Gas Pipeline
Company, L.L.C.
a Kinder Morgan company

NOTICE OF PROPOSED UTILITY WORK IN WALLER COUNTY RIGHT-OF-WAY

RE: TENNESSEE GAS PIPELINE COMPANY, L.L.C.

SCOPE OF WORK

The purpose of this project is to replace a section of the TGP 100-3 pipeline that has been identified with an anomaly. The plan will require excavation within the bar ditch of the road(s) in order to cut and make the tie-in for pipe replacement. No excavation will take place within the roadway. Equipment and materials would be staged on the south side of Morton Rd along the permanent TGP easement and no excavation performed on this side. The project and excavation site is located off Morton Road @ Pitts Road with GPS coordinates as follows: 29. 816641, -95.840253 in Waller County, TX.

Dig 51

Legend

51

Pitts Rd

29°49'0.46"N, 95°50'24.34"W

20' Wide

29°49'0.19"N, 95°50'24.33"W

50' Long

29°48'59.82"N, 95°50'25.16"W

29°48'59.82"N, 95°50'24.80"W

Morton Rd

Morton Rd

Morton Rd

20' Wide

Pitts Rd

Google Earth

Image Landsat / Copernicus

N

100 ft



Troy Traffic Control Guide

The traffic control guide for this project will include drawings 6H-13 for TA-13 out of the National MUTCD (2011 Edition – Revision 2). These programs are designed to ease the flow of the traffic on county roads, in neighborhoods and on state highways. As always, these are references and special conditions apply to each scenario and road. Refer to your training, your Training Coordinator or Safe Operations Field Coordinator.

Notes for Figure 6H-13—Typical Application 13
Temporary Road Closure

Support:

1. Conditions represented are a planned closure not exceeding 20 minutes during the day time.

Standard:

2. A flagger or uniformed law enforcement officer shall be used for this application. The flagger, if used for this application, shall follow the procedures provided in Sections 6E.07 and 6E.08.

Guidance:

3. The uniformed law enforcement officer, if used for this application, should follow the procedures provided in Sections 6E.07 and 6E.08.

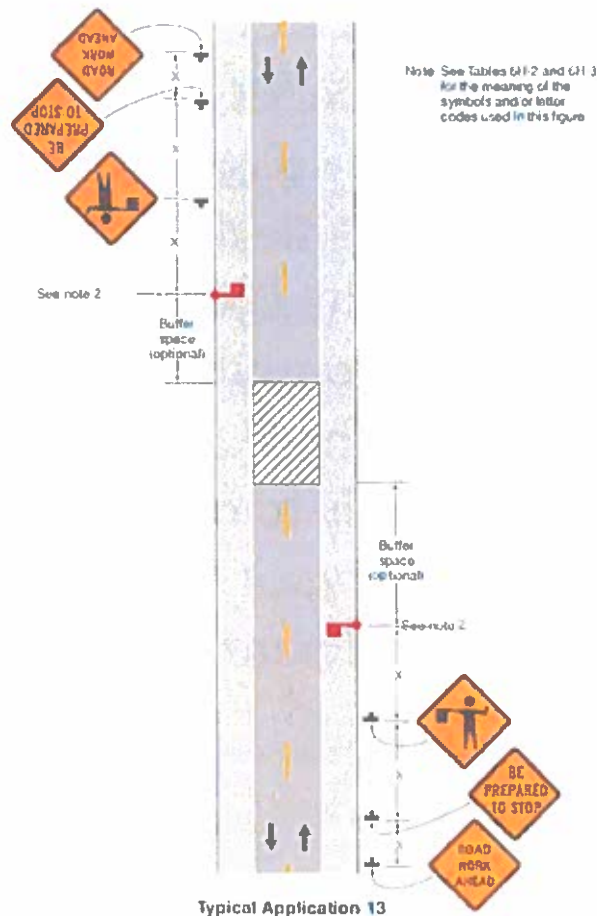
Standard:

4. A BE PREPARED TO STOP sign shall be located before the Flagger symbol sign.

Support:

5. Additional requirements for the location of flagger stations are contained in section 6E.08.

Figure 6H-13. Temporary Road Closure (TA-13)



Tables used in MUTCD

Guidance

- When a single flagger is used, the flagger should be stationed on the shoulder opposite the spot lane closure or work space, or in a position where good visibility and traffic control can be maintained at all times.

Section 6E.08 Flagger Stations

Standard:

- Flagger stations shall be located such that approaching road users will have sufficient distance to stop at an intended stopping point.

Option:

- The distances shown in Table 6E-1, which provides information regarding the stopping sight distance as a function of speed, may be used for the location of a flagger station. These distances may be increased for downgrades and other conditions that affect stopping distance.

Guidance

- Flagger stations should be located such that an errant vehicle has additional space to stop without entering the work space. The flagger should identify an escape route that can be used to avoid being struck by an errant vehicle.

Standard:

- Except in emergency situations, flagger stations shall be preceded by an advance warning sign or signs. Except in emergency situations, flagger stations shall be illuminated at night.

Table 6E-1. Stopping Sight Distance as a Function of Speed

Speed*	Distance
20 mph	115 feet
25 mph	155 feet
30 mph	200 feet
35 mph	250 feet
40 mph	305 feet
45 mph	360 feet
50 mph	425 feet
55 mph	495 feet
60 mph	570 feet
65 mph	645 feet
70 mph	730 feet
75 mph	820 feet
80 mph	910 feet

* Posted speed, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed.

Table 6H-3. Suggested Advance Warning Sign Spacing

Road Classification	Posted Speed (mph)	Sign Spacing ^a (ft)
General Purpose Highway	25	100
	30	120
	35	160
	40	240
	45	320
	50	600
	55	600
	60	800
	65	720
	70	800
Expressway or Freeway	75	900
	80	1000
	All Speeds	See Typical Applications ^b

^a Distance between signs should be increased to have 1500 feet advance warning. (See Section 6C.04.07.)

^b Distance between signs should be increased to have 1/2 mile or more advance warning. (See Sections 6C.04.05.)

Section 6E.07 Flagger Procedures

Support

- 01 The use of paddles and flags by flaggers is illustrated in Figure 6E-3.

Standard:

- 02 Flaggers shall use a STOP/SLOW paddle, a flag, or an Automated Flagger Assistance Device (AFAD) to control road users approaching a TTC zone. The use of hand movements alone without a paddle, flag, or AFAD to control road users shall be prohibited except for law enforcement personnel or emergency responders at incident scenes as described in Section 6I.01.
- 03 The following methods of signaling with paddles shall be used:
- A. To stop road users, the flagger shall face road users and aim the STOP paddle face toward road users in a stationary position with the arm extended horizontally away from the body. The free arm shall be held with the palm of the hand above shoulder level toward approaching traffic.
 - B. To direct stopped road users to proceed, the flagger shall face road users with the SLOW paddle face aimed toward road users in a stationary position with the arm extended horizontally away from the body. The flagger shall motion with the free hand for road users to proceed.
 - C. To alert or slow traffic, the flagger shall face road users with the SLOW paddle face aimed toward road users in a stationary position with the arm extended horizontally away from the body.

Option:

- 04 To further alert or slow traffic, the flagger holding the SLOW paddle face toward road users may motion up and down with the free hand, palm down.

Standard:

- 05 The following methods of signaling with a flag shall be used:
- A. To stop road users, the flagger shall face road users and extend the flag staff horizontally across the road users' lane in a stationary position so that the full area of the flag is visibly hanging below the staff. The free arm shall be held with the palm of the hand above shoulder level toward approaching traffic.
 - B. To direct stopped road users to proceed, the flagger shall face road users with the flag and arm lowered from the view of the road users, and shall motion with the free hand for road users to proceed. Flags shall not be used to signal road users to proceed.
 - C. To alert or slow traffic, the flagger shall face road users and slowly wave the flag in a sweeping motion of the extended arm from shoulder level to straight down without raising the arm above a horizontal position. The flagger shall keep the free hand down.

Guidance

- 06 The flagger should stand either on the shoulder adjacent to the road user being controlled or in the closed lane prior to stopping road users. A flagger should only stand in the lane being used by moving road users after road users have stopped. The flagger should be clearly visible to the first approaching road user at all times. The flagger also should be visible to other road users. The flagger should be stationed sufficiently in advance of the workers to warn them (for example, with audible warning devices such as horns or whistles) of approaching danger by out-of-control vehicles. The flagger should stand alone, away from other workers, work vehicles, or equipment.

Option:

- 07 At spot lane closures where adequate sight distance is available for the reasonably safe handling of traffic, the use of one flagger may be sufficient.

Guidance

- 08 When a single flagger is used, the flagger should be stationed on the shoulder opposite the spot lane closure or work space or in a position where good visibility and traffic control can be maintained at all times.

Section 6E.08 Flagger Stations

Standard:

- 01 Flagger stations shall be located such that approaching road users will have sufficient distance to stop at an intended stopping point.

Option:

- 02 The distances shown in Table 6E-1, which provides information regarding the stopping sight distance as a function of speed, may be used for the location of a flagger station. These distances may be increased for downgrades and other conditions that affect stopping distance.

Guidance

- 03 Flagger stations should be located such that an errant vehicle has additional space to stop without entering the work space. The flagger should identify an escape route that can be used to avoid being struck by an errant vehicle.

Standard:

- 04 Except in emergency situations, flagger stations shall be preceded by an advance warning sign or signs. Except in emergency situations, flagger stations shall be illuminated at night.