



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.gov

Right of Way Permit

Commercial Driveway Permit

Permit No: 2018-23208

Applicant: AT&T Texas/Black & Veatch

Job Location Site: 10903 Starling Creek Drive, Richmond, TX 77406

Bond No. **Date of Bond:** 11/28/2017 **Amount:** \$50,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.
4. This permit applies to work performed within right-of-ways owned and maintained by Fort Bend County only, and it is the responsibility of the applicant to acquire all other necessary permits.

On this 6th day of November, 2018, Upon Motion of Commissioner _____, seconded by Commissioner _____, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By: 
County Engineer

Date Recorded _____ Comm. Court No. _____

Clerk of Commissioners Court

By: N/A
Drainage District Engineer/Manager

By: _____
Deputy



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

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.gov

- Right of Way Permit**
 Commercial Driveway Permit

Permit No: 2018-23208

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

(1) COMPLETE APPLICATION FORM:

- a. Name of road, street, and/or drainage ditch affected.
 b. Vicinity map showing course of directions
 c. Plans and specifications

(2) BOND:

- County Attorney, approval when applicable.
- Perpetual bond currently posted. Bond No: Amount: \$50,000.00
- Performance bond submitted. Bond No: Amount:
- Cashier's Check Check No: Amount:

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

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



Permit Administrator

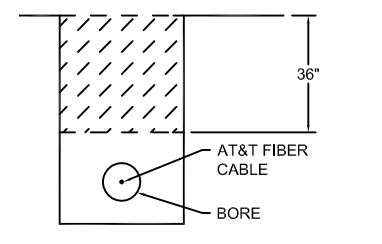
10/29/2018

Date

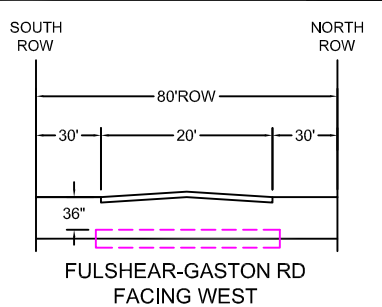
BLACK & VEATCH
 DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 3 & 4

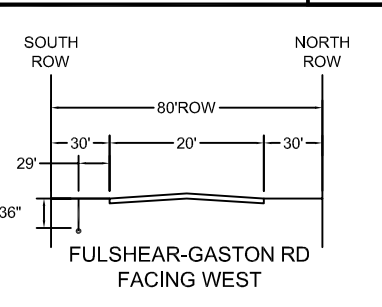
DESIGN SUMMARY:
 -BORE AND PLACE FIBER



BORE DETAIL NTS



TYPICAL BORE CROSS-SECTION NTS



TYPICAL CROSS-SECTION NTS

FORT BEND COUNTY NOTIFICATION

10903 STARLIN CREEK DR

FULSHEAR-GASTON RD

APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y

NORTH ARROW

OPERATING RANGE OF JOB STEPS
 TASK ____ TO ____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

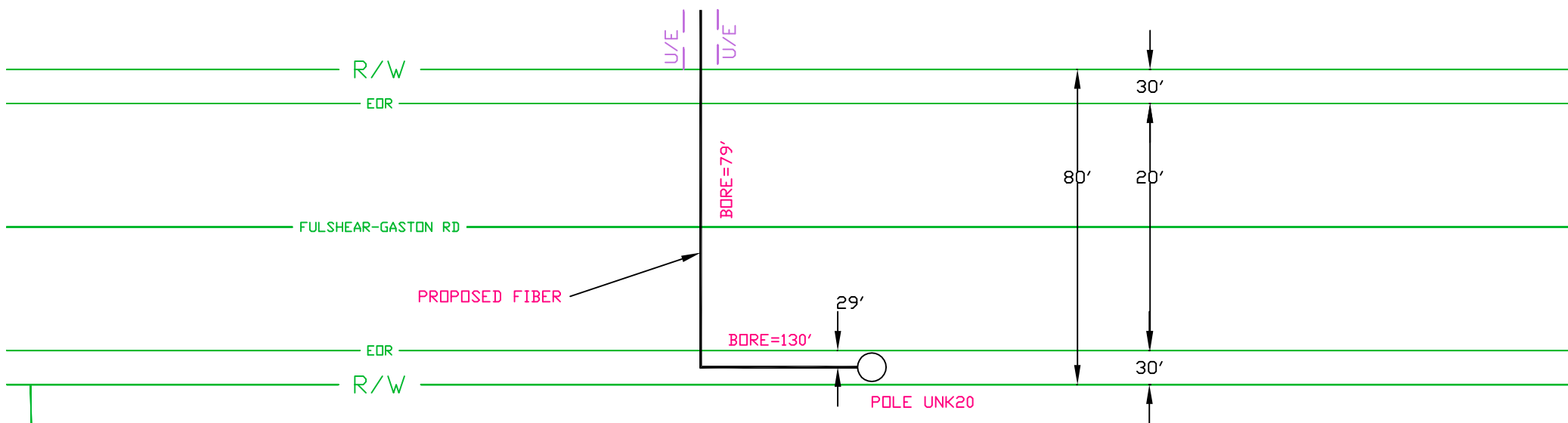
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 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 73
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524P
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.



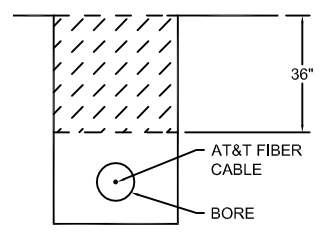
25651 FULSHEAR-GASTON RD



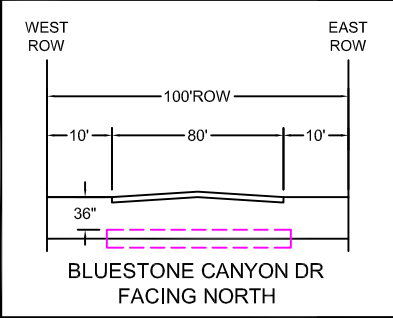
DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 14 & 15

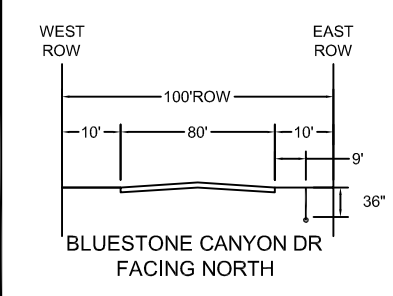
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 -BORE AND PLACE FIBER



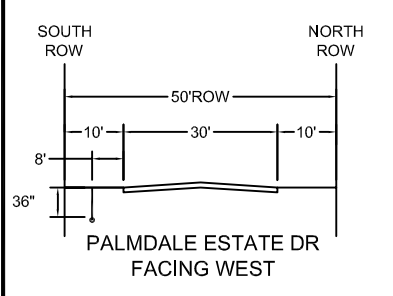
BORE DETAIL NTS



TYPICAL BORE CROSS-SECTION NTS

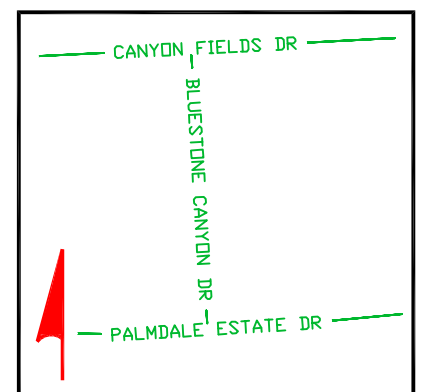
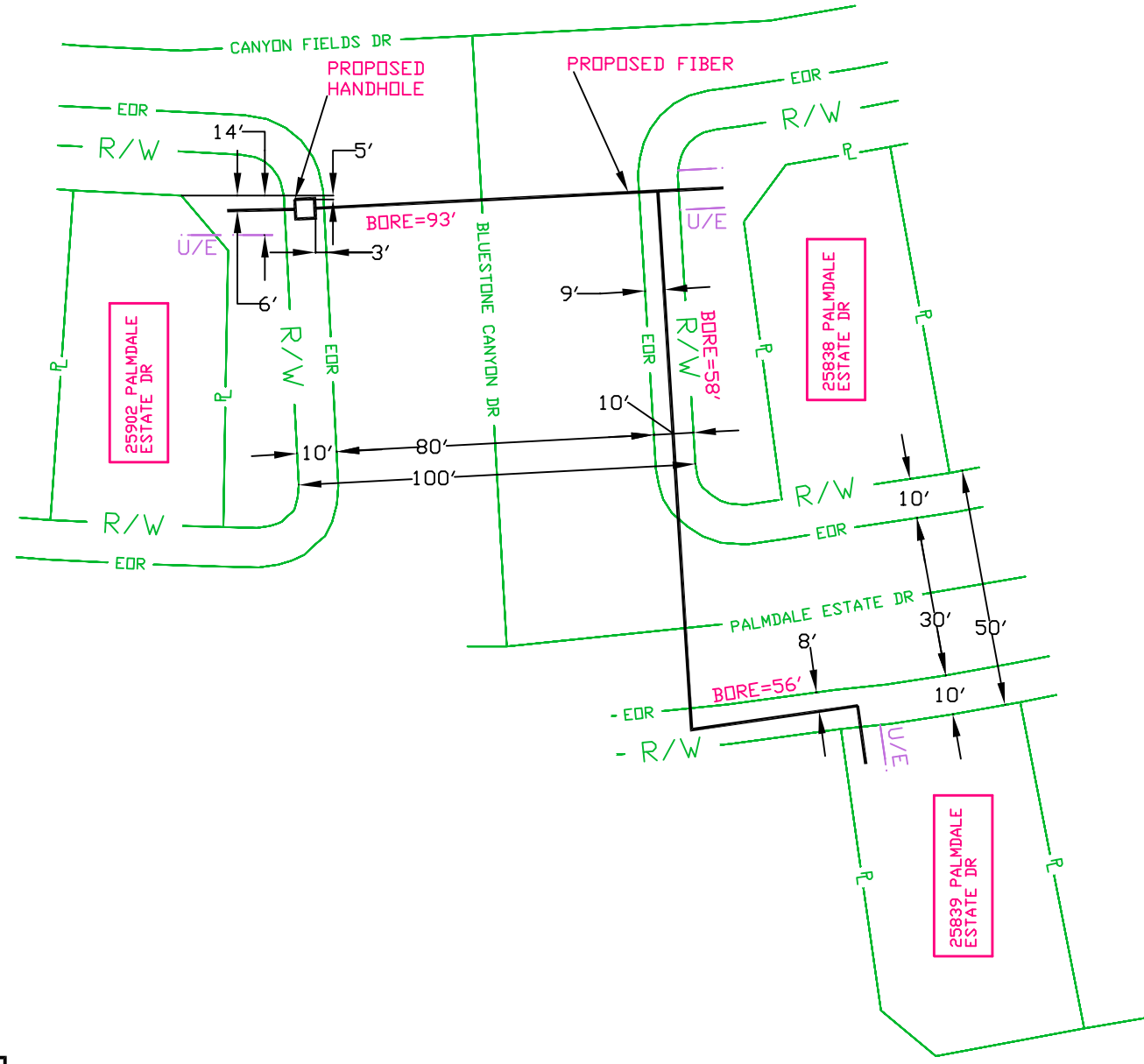


TYPICAL CROSS-SECTION NTS



TYPICAL CROSS-SECTION NTS

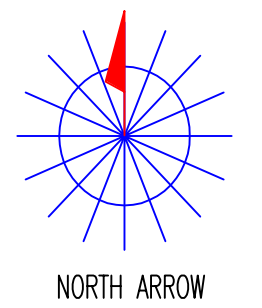
FORT BEND COUNTY NOTIFICATION



APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

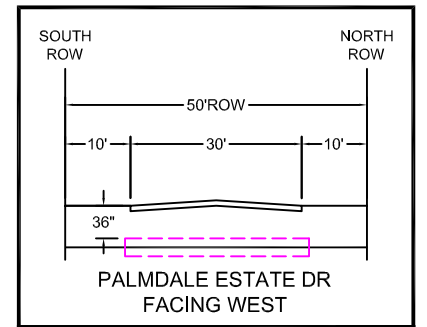
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 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 74
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232

ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803

REC. REF.
 MAP REF. 524K
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.



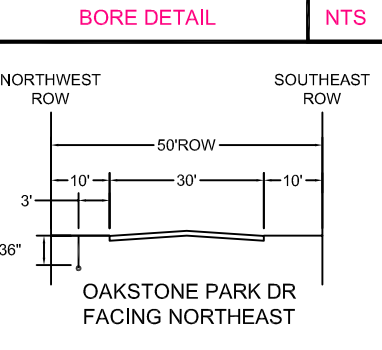
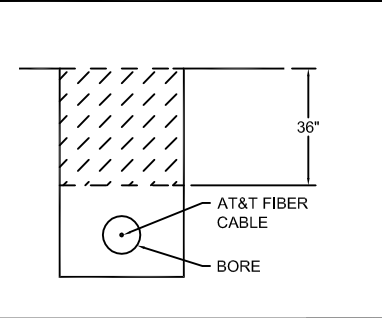
TYPICAL BORE CROSS-SECTION NTS

--Proprietary--
 Not for use or disclosure outside the AT&T companies except under written agreement.

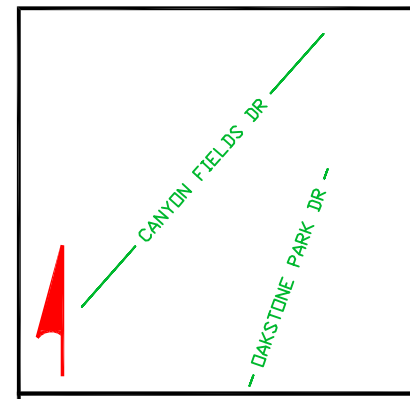
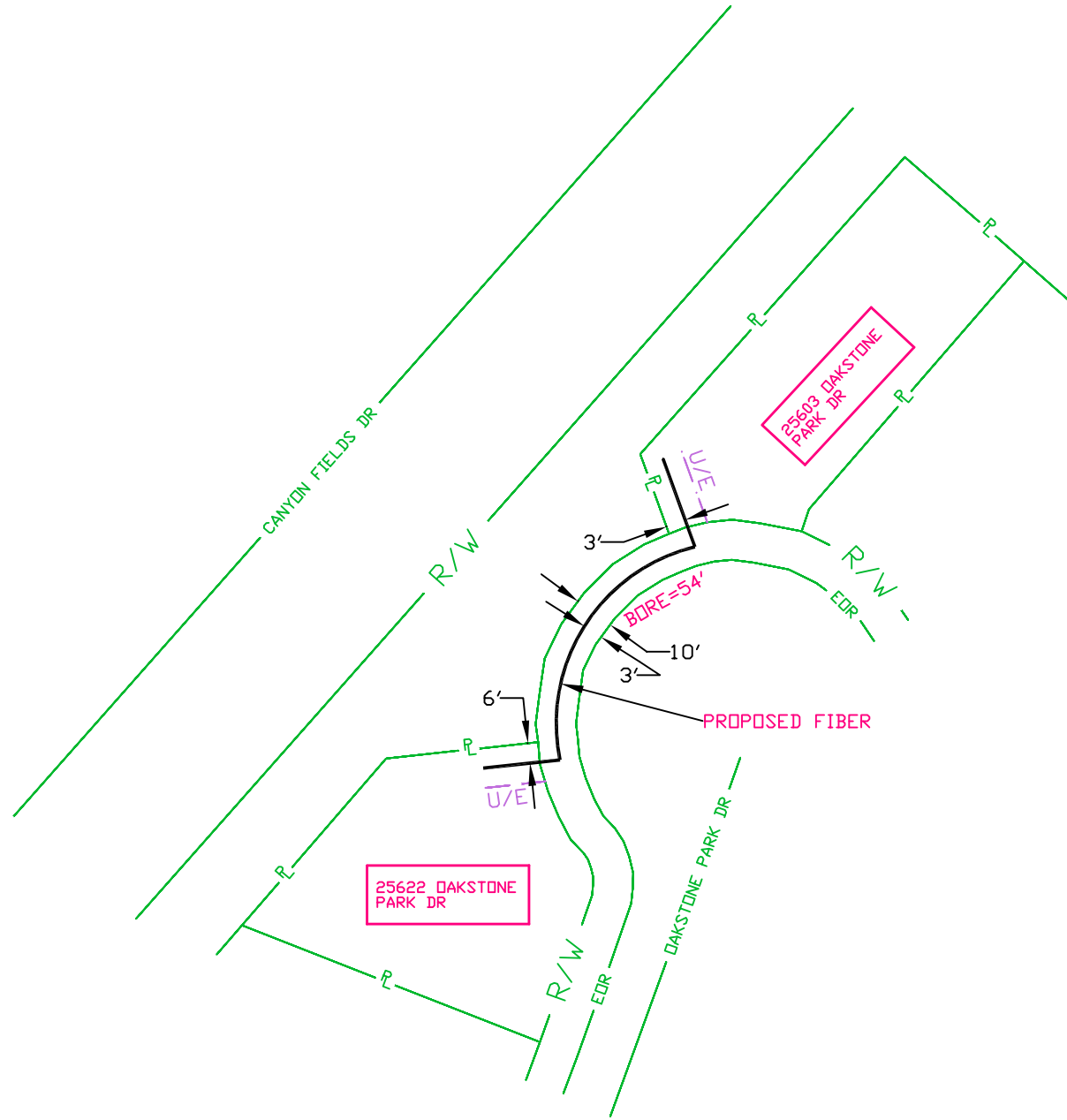
BLACK & VEATCH
 DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 19

DESIGN SUMMARY:
 -BORE AND PLACE FIBER



FORT BEND COUNTY NOTIFICATION



WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y

NORTH ARROW

OPERATING RANGE OF JOB STEPS
 TASK _____ TO _____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

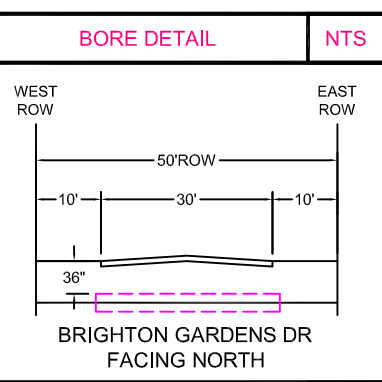
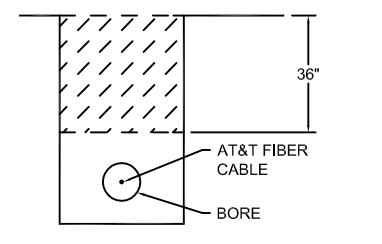
PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 75
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524K
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

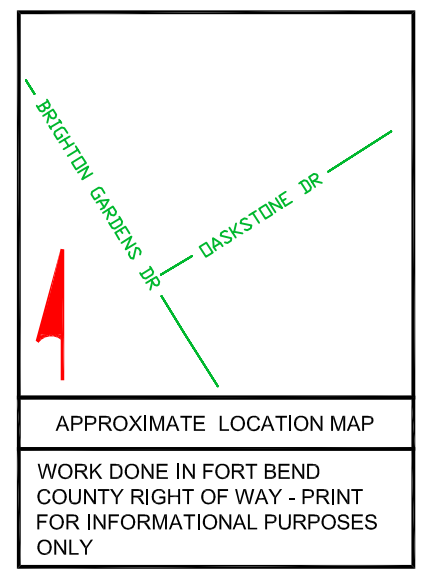
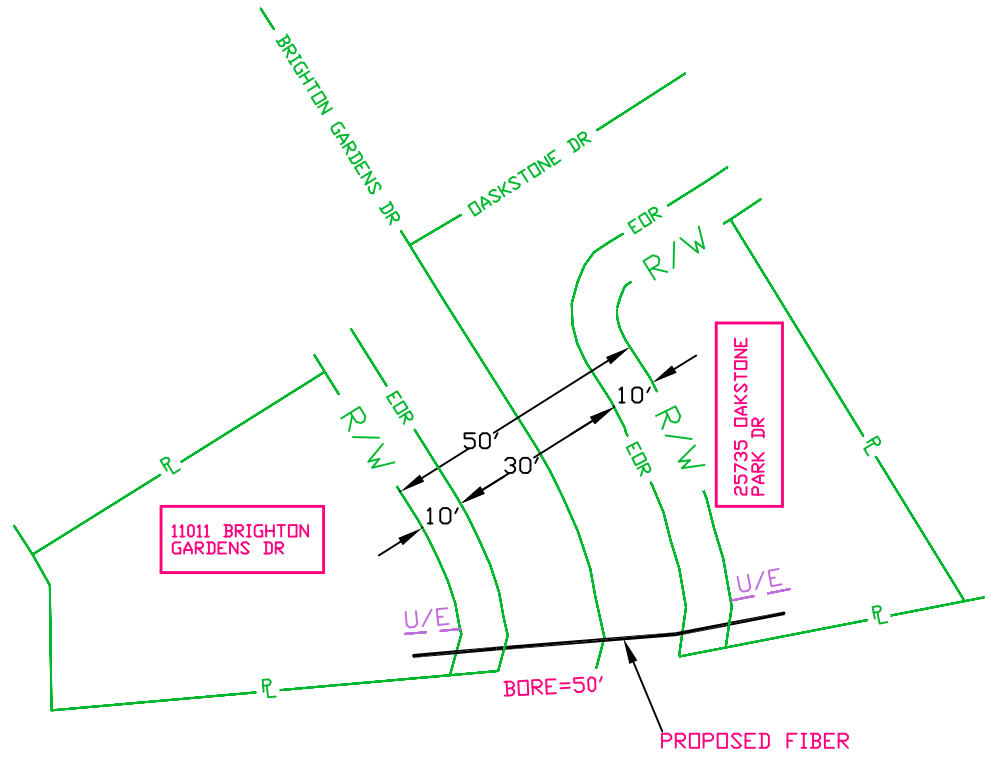
BLACK & VEATCH
 DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 16 & 17

DESIGN SUMMARY:
 -BORE AND PLACE FIBER



FORT BEND COUNTY NOTIFICATION



SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y

NORTH ARROW

OPERATING RANGE OF JOB STEPS
 TASK _____ TO _____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

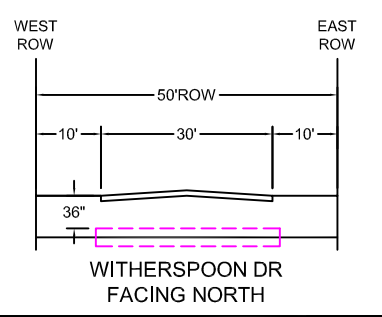
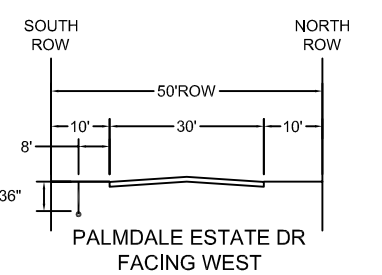
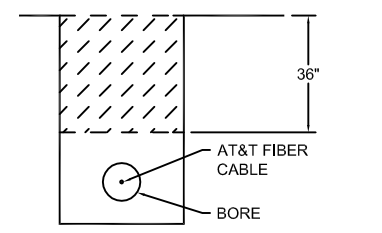
PROJECT NO A0144QX

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 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524K
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

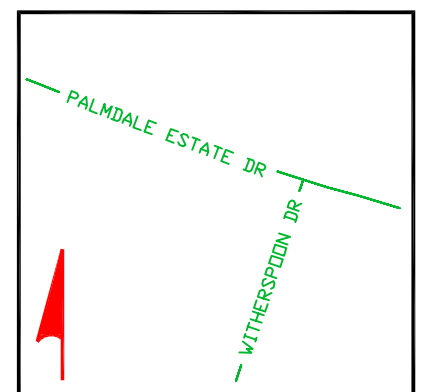
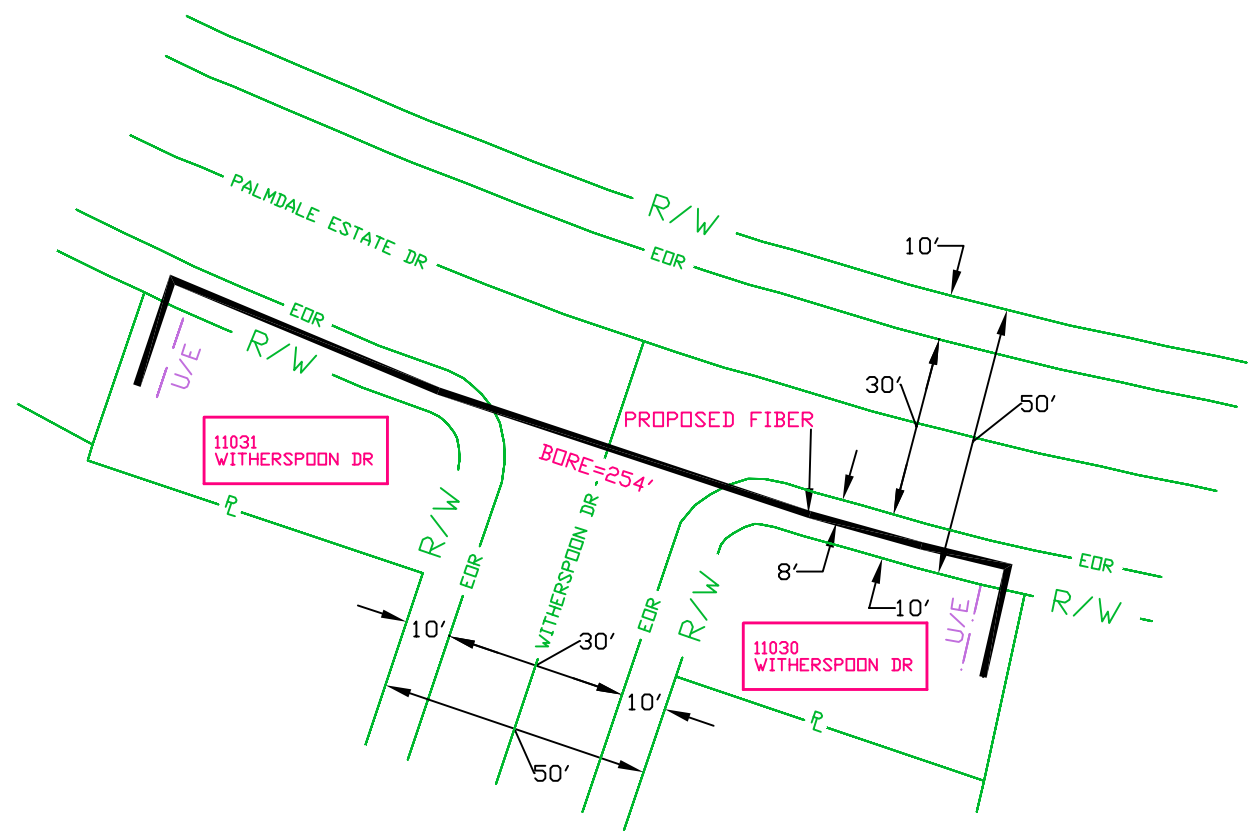
BLACK & VEATCH
 DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 24 & 25

DESIGN SUMMARY:
 -BORE AND PLACE FIBER

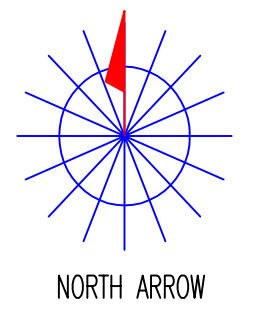


FORT BEND COUNTY NOTIFICATION



APPROXIMATE LOCATION MAP
 WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS
 TASK _____ TO _____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 77
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524K
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

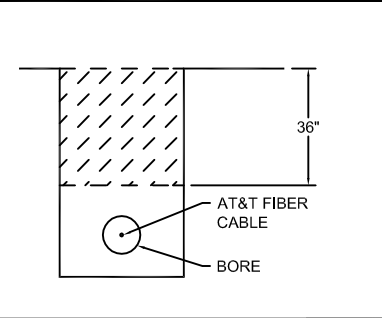
--Proprietary--
 Not for use or disclosure outside the AT&T companies except under written agreement.

BLACK & VEATCH

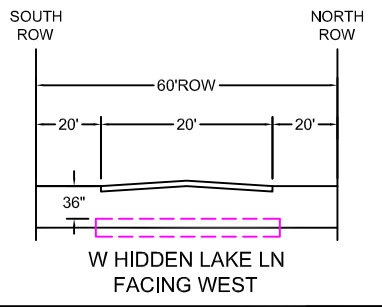
DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 39 & 40

DESIGN SUMMARY:
 -BORE AND PLACE CABLE



BORE DETAIL NTS



TYPICAL BORE CROSS-SECTION NTS

FORT BEND COUNTY NOTIFICATION

W HIDDEN LAKE LN

APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y

NORTH ARROW

OPERATING RANGE OF JOB STEPS
 TASK ____ TO ____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

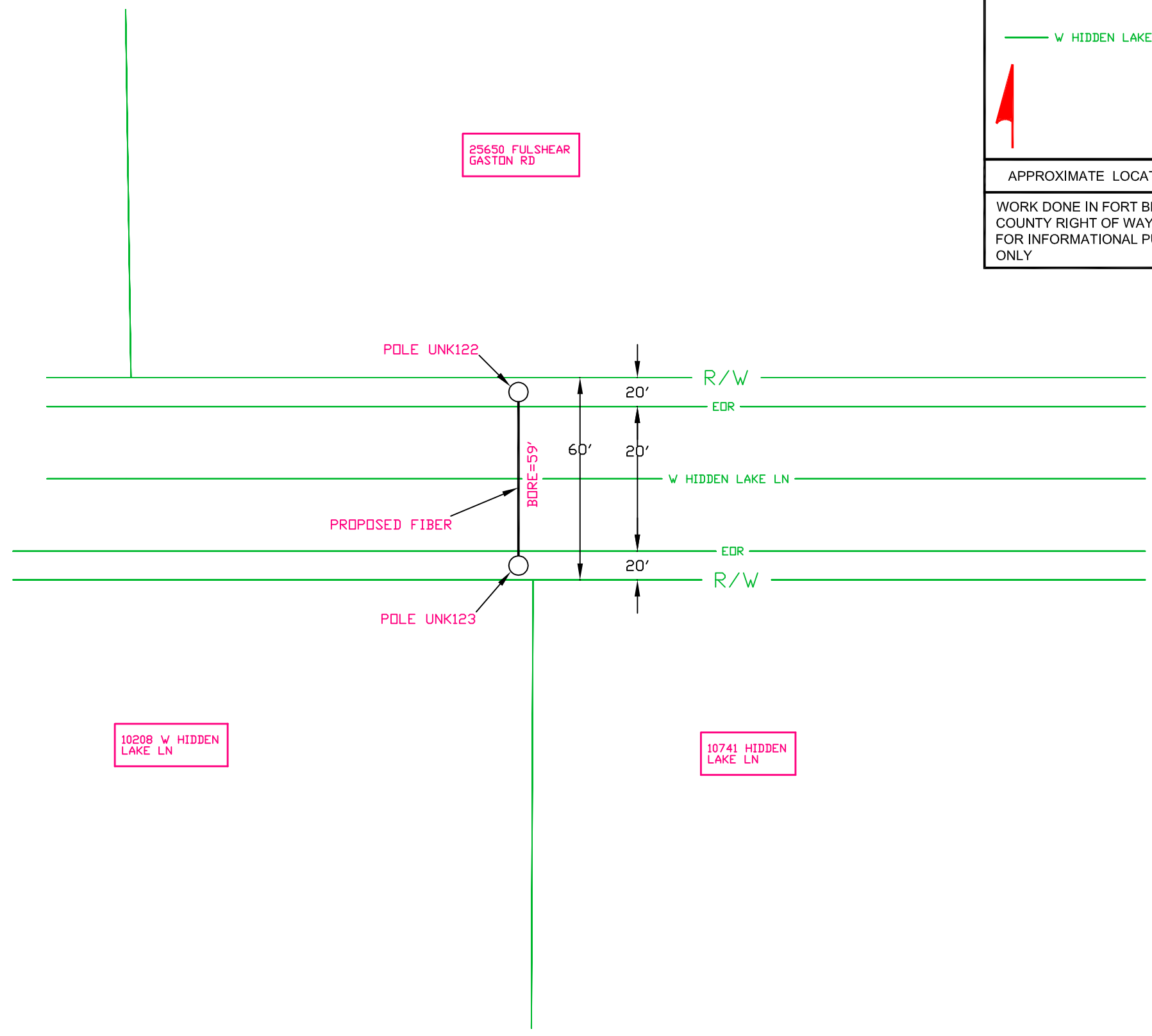
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 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 78
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524P
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.



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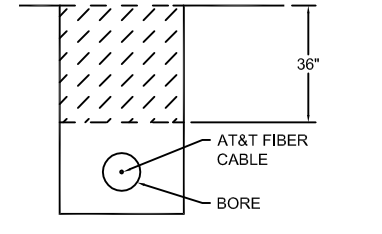


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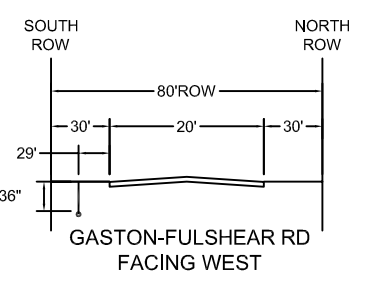
DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 66

DESIGN SUMMARY:
 -BORE AND PLACE FIBER

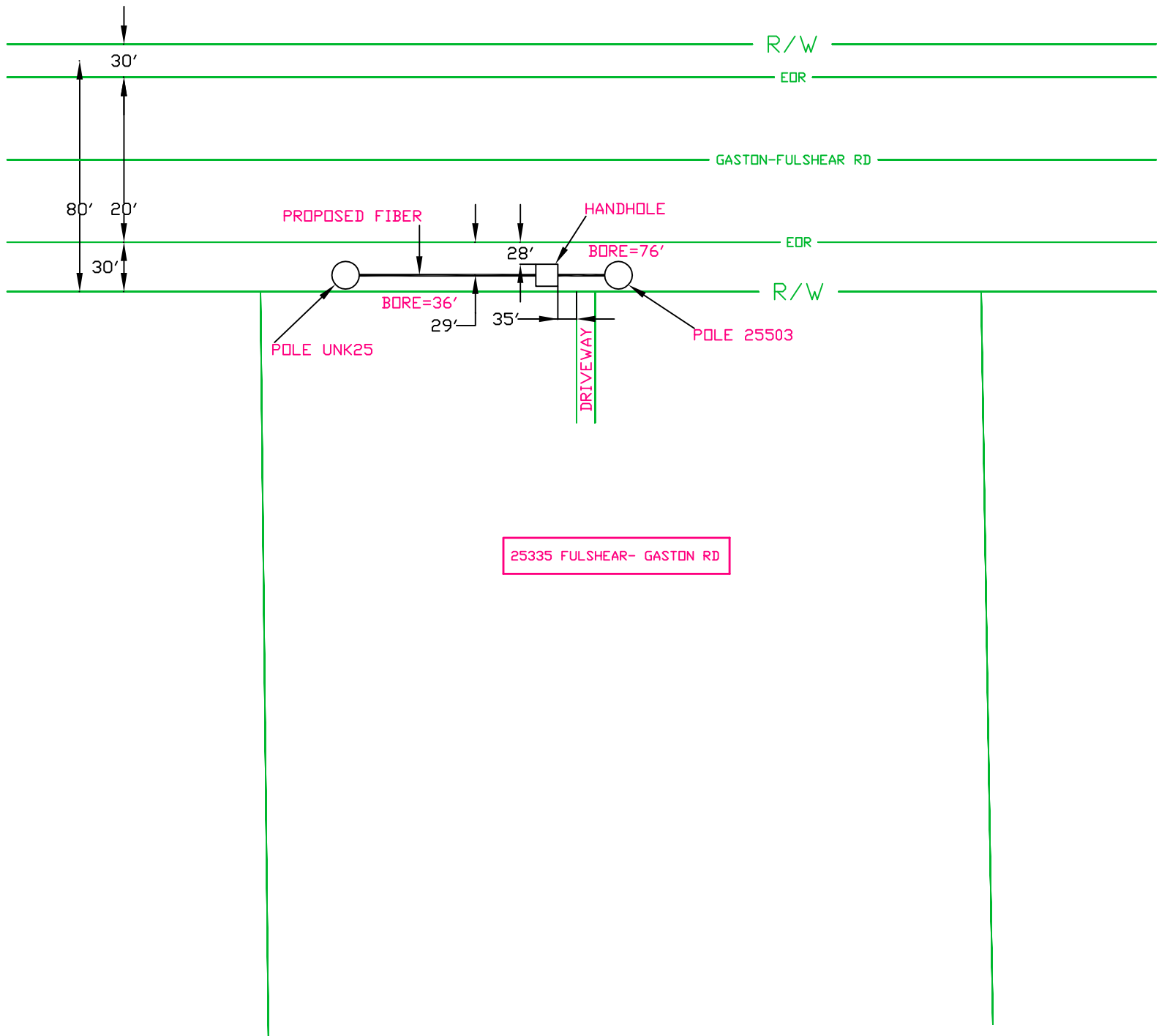



BORE DETAIL NTS



TYPICAL CROSS-SECTION NTS

FORT BEND COUNTY NOTIFICATION

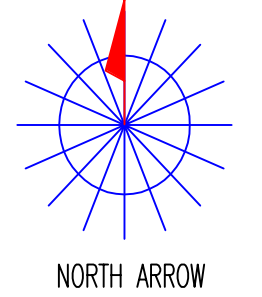



GASTON-FULSHEAR RD

APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS
 TASK ____ TO ____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0


Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 79
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524Q
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

--Proprietary--
 Not for use or disclosure outside the AT&T companies except under written agreement.

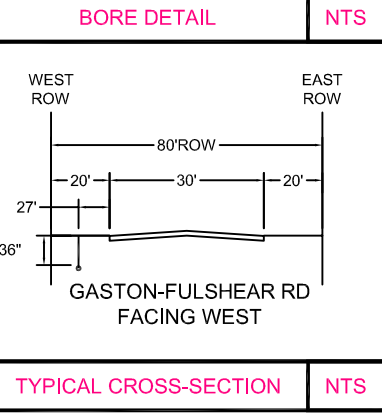
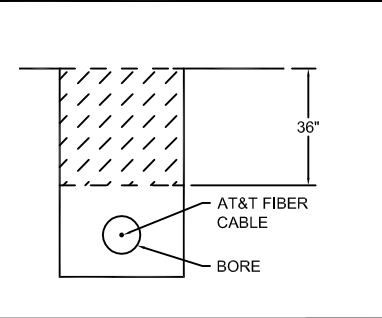


BLACK & VEATCH


DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 69 & 70

DESIGN SUMMARY:
 -BORE AND PLACE FIBER



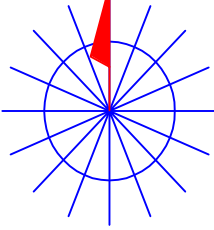
FORT BEND COUNTY NOTIFICATION



APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS
 TASK ____ TO ____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

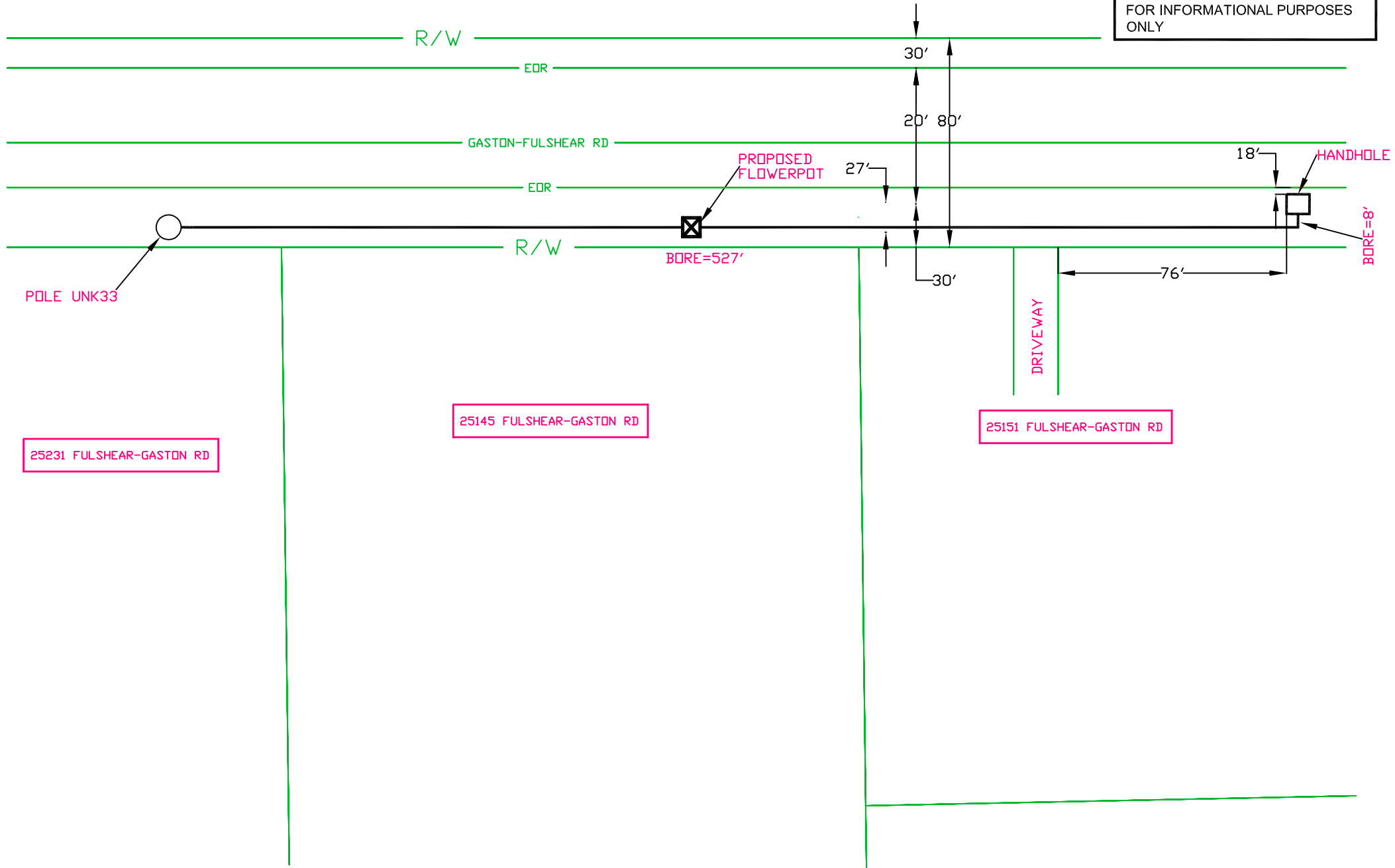
Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 80
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524Q
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

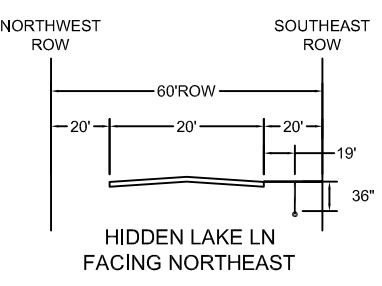
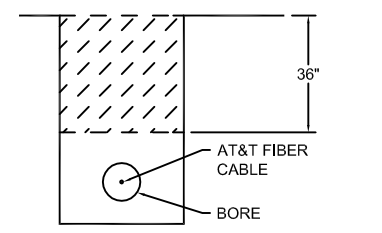


--Proprietary--
 Not for use or disclosure outside the AT&T companies except under written agreement.

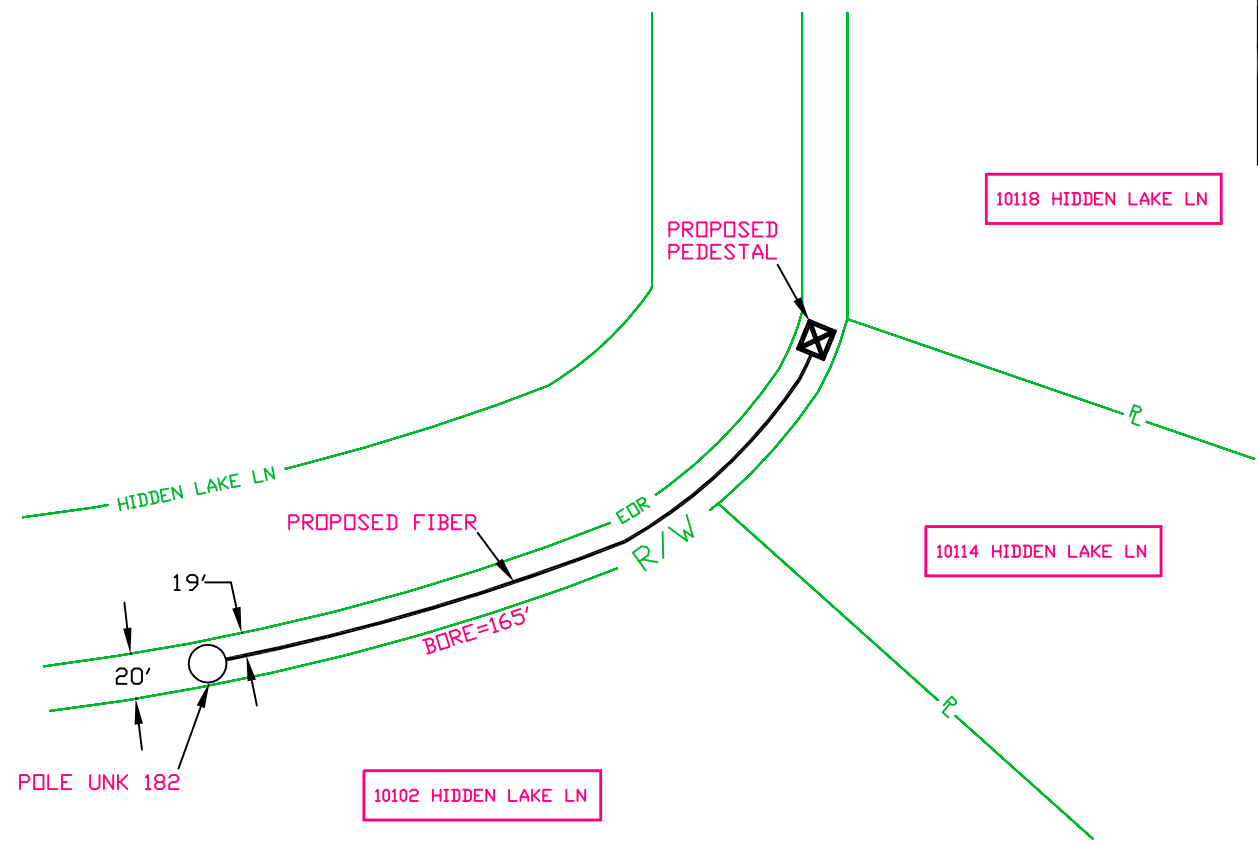
BLACK & VEATCH
 DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 53, 54

DESIGN SUMMARY:
 -BORE AND PLACE FIBER



FORT BEND COUNTY NOTIFICATION



APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y

NORTH ARROW

OPERATING RANGE OF JOB STEPS
 TASK ____ TO ____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

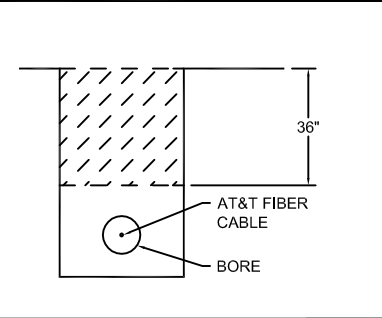
PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 81
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524T & 524U
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

BLACK & VEATCH
 DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

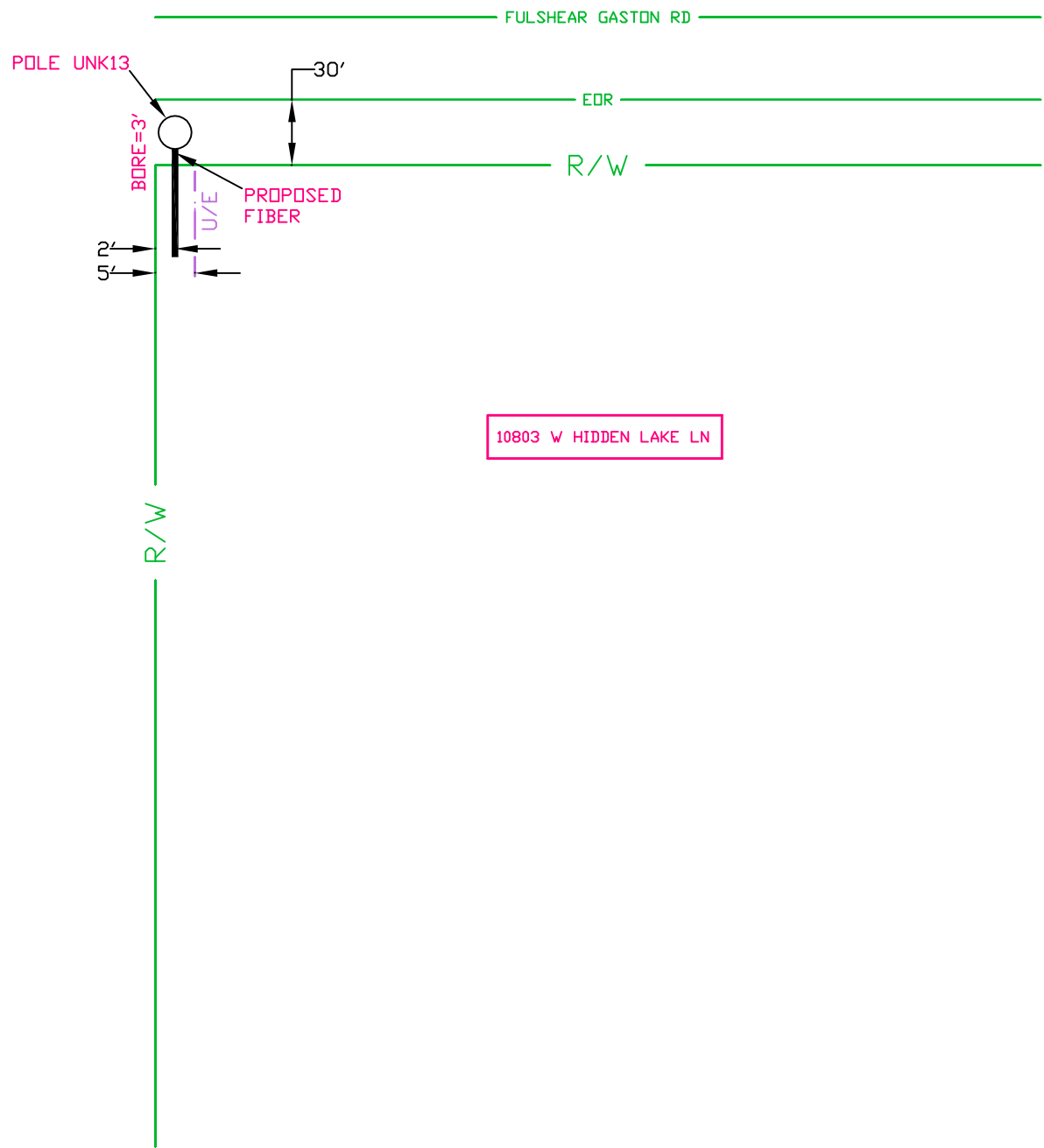
FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 6

DESIGN SUMMARY:
 -BORE AND PLACE FIBER



BORE DETAIL NTS

FORT BEND COUNTY NOTIFICATION



APPROXIMATE LOCATION MAP

WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y

NORTH ARROW

OPERATING RANGE OF JOB STEPS
 TASK ____ TO ____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 82
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803
 REC. REF.
 MAP REF. 524P
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

--Proprietary--
 Not for use or disclosure outside the AT&T companies except under written agreement.

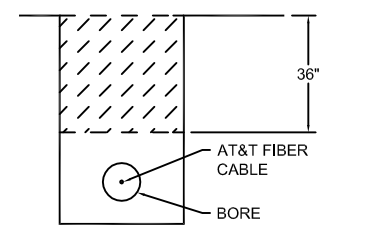


BLACK & VEATCH

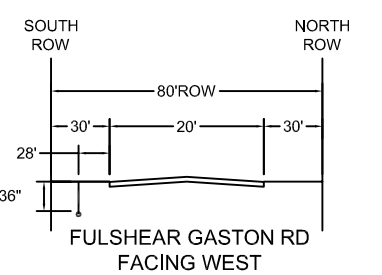
DESIGN ENGINEER CONTACT:
 JALEN GOLPHIN
 BLACK & VEATCH
 (469) 513-3245
 GOLPHINJ@BV.COM

FORT BEND COUNTY
 PERMIT TBD
 SHOWN ON PRINT 7, 8 & 9

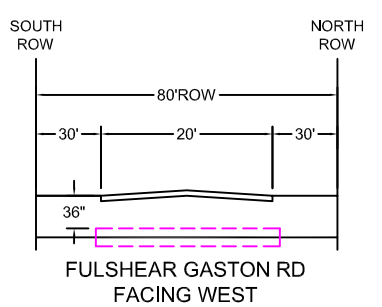
DESIGN SUMMARY:
 -BORE AND PLACE FIBER



BORE DETAIL NTS

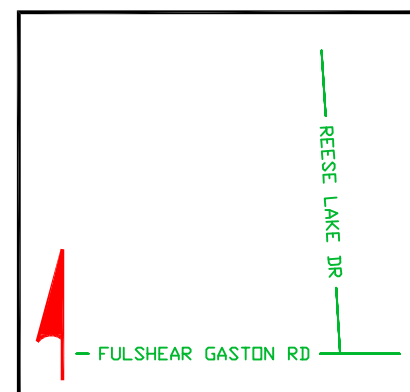
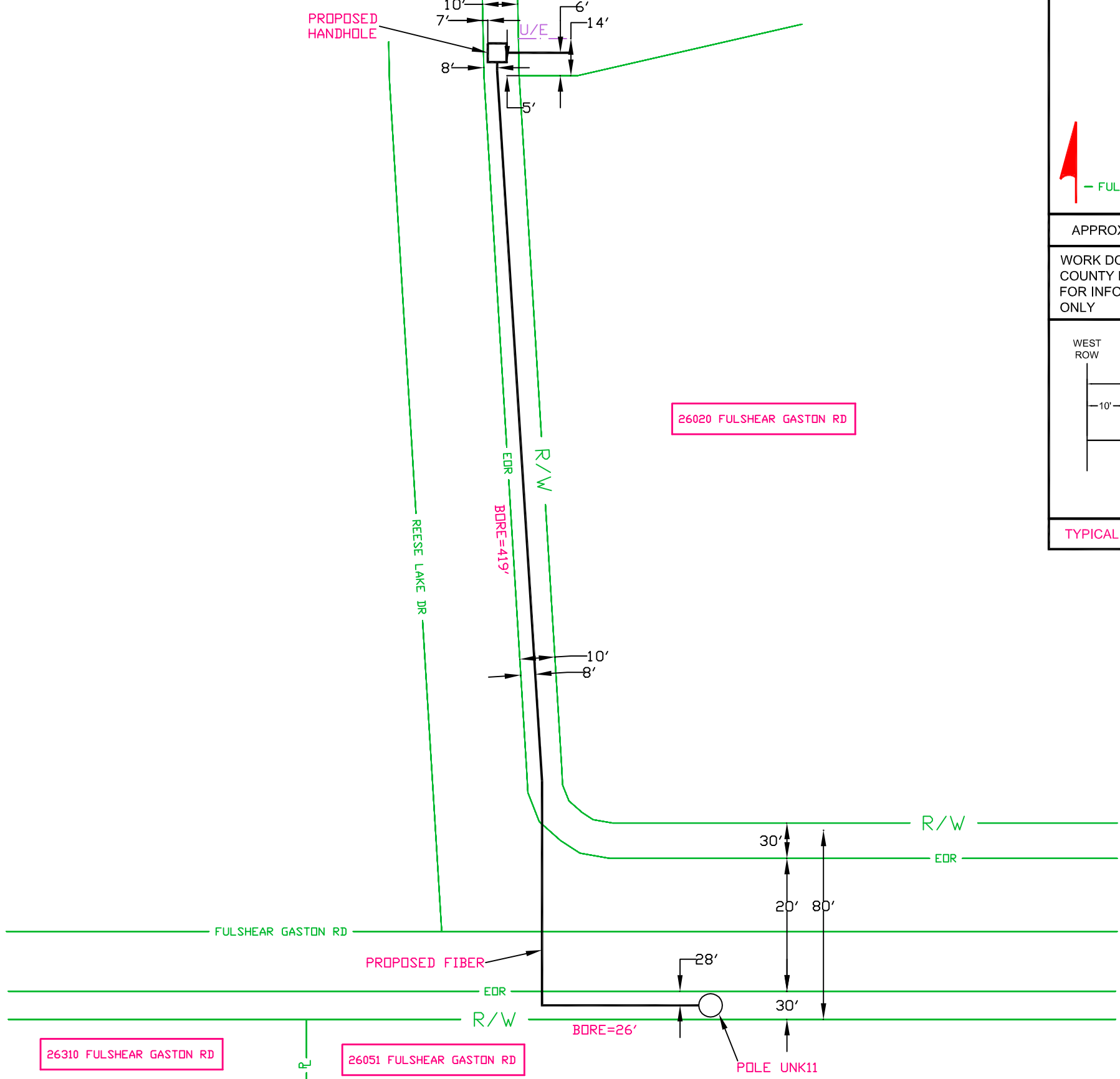


TYPICAL CROSS-SECTION NTS

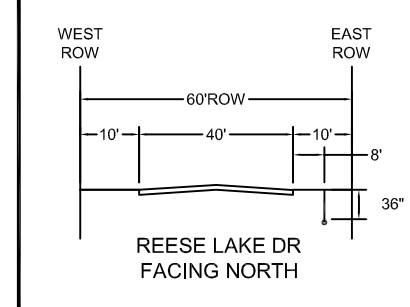


TYPICAL BORE CROSS-SECTION NTS

FORT BEND COUNTY NOTIFICATION



WORK DONE IN FORT BEND COUNTY RIGHT OF WAY - PRINT FOR INFORMATIONAL PURPOSES ONLY

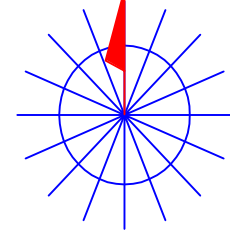


TYPICAL CROSS-SECTION NTS

SPECIAL CIRCUITS N

6203 FORWARDED N

PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC

TRANSMISSION ZONE

RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE

KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 83

NPA/NNX: 281-232 PRT:281232

EXCH. RICH-ROSE

TAX DIST. FG042

GEO LOC. W89232

ENGR. SK DRAWNTS

TELEPHONE NO. (281) 298-5803

REC. REF.

MAP REF. 524K & 524 P

SCALE NONE

ISSUE DATE

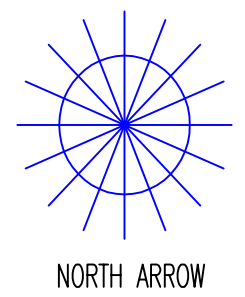
PROJ TITLE LIGHTGIG-4150PJ-DIST-RR

REV. NUMBER

DATE REV.

--Proprietary--
 Not for use or disclosure outside the AT&T companies except under written agreement.

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED N



OPERATING RANGE OF JOB STEPS
 TASK _____ TO _____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A01440X

TOT.PRINTS 85 PRINT NO. 84
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803

REC. REF.
 MAP REF.
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
FULSHEAR-GASTON RD	50	550'	50'	100'	400'	240'
HIDDEN LAKE LN	30	165'	30'	60'	120'	90'
REESE LAKE DR	35	225'	35'	70'	160'	120'

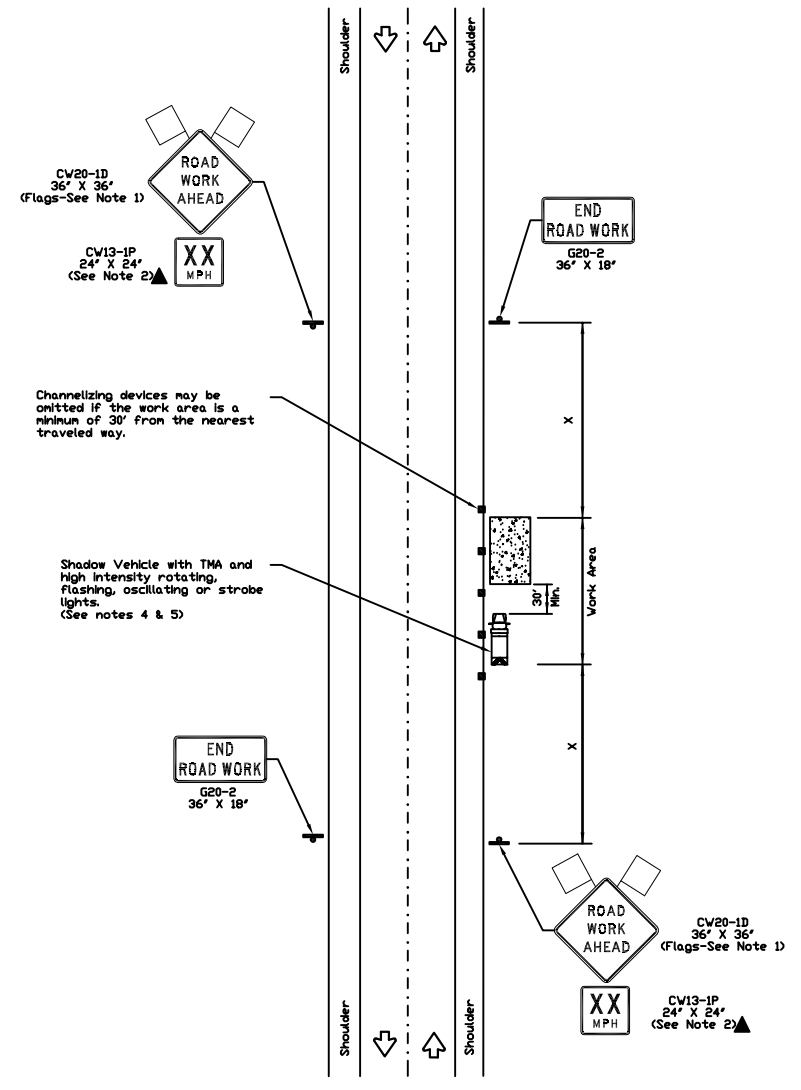
LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed #	Formula	Minimum Desirable Taper Lengths "L"		Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space "B"	
		10' Offset	12' Offset	On a Taper	On a Tangent			
		10'	11'	12'	12'			
30	L = $\frac{VS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60	L=WS	600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper(FT) V=Width of Offset(FT) S=Posted Speed(MPH)

- GENERAL NOTES
- Flags attached to signs where shown are OPTIONAL.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
 - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
 - Contractor shall provide and install traffic control devices in conformance with part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD - Latest edition with revisions) during construction.
 - No lanes shall be blocked during construction.
 - If project is within 400 feet from a signalized intersection, the Contractor shall contact Harris County Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.



Channelizing devices may be omitted if the work area is a minimum of 30' from the nearest traveled way.

Shadow Vehicle with TMA and High Intensity rotating, flashing, oscillating or strobe lights. (See notes 4 & 5)

WORK SPACE NEAR SHOULDER

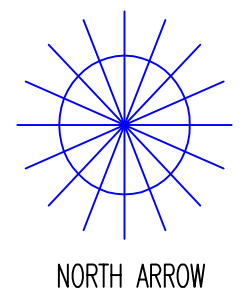
NO.	REVISIONS	DATE	NAME
1	UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH

FORT BEND COUNTY
 ENGINEERING DEPARTMENT

FOR INTERIM REVIEW ONLY
 DOCUMENT INCOMPLETE:
 NOT INTENDED FOR CONSTRUCTION,
 BIDDING, OR PERMIT PURPOSES
 ENGINEER: NAME
 P.E. SERIAL No. NUMBER
 DATE: / /

PROJECT TITLE:
 DRAWN BY: BSH
 CK'D BY: BSH
 SCALE: N.T.S.
 DATE: 6/26/14
 SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (SHOULDER WORK)
 HCD STANDARD: 38
 SHEET NO: /

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED N



OPERATING RANGE OF JOB STEPS
 TASK _____ TO _____
 MFRC

TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 4150PJ

CAUTION HIGH VOLTAGE
 KV 0.00 AERIAL N BURIED N

HIGHWAY PERMIT NO.

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+) 0 (-) 0

PROJECT NO A0144QX

TOT.PRINTS 85 PRINT NO. 85
 NPA/NNX: 281-232 PRT:281232
 EXCH. RICH-ROSE
 TAX DIST. FG042
 GEO LOC. W89232
 ENGR. SK DRAWNTS
 TELEPHONE NO. (281) 298-5803

REC. REF.
 MAP REF.
 SCALE NONE
 ISSUE DATE
 PROJ TITLE LIGHTGIG-4150PJ-DIST-RR
 REV. NUMBER
 DATE REV.

TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
BRIGHTON GARDENS DR	30	165'	30'	60'	120'	90'
PALMDALE ESTATE DR	30	165'	30'	60'	120'	90'
BLUESTONE CANYON DR	30	165'	30'	60'	120'	90'
DAKSTONE PARK DR	30	165'	30'	60'	120'	90'
WITHERSPOON DR	30	165'	30'	60'	120'	90'

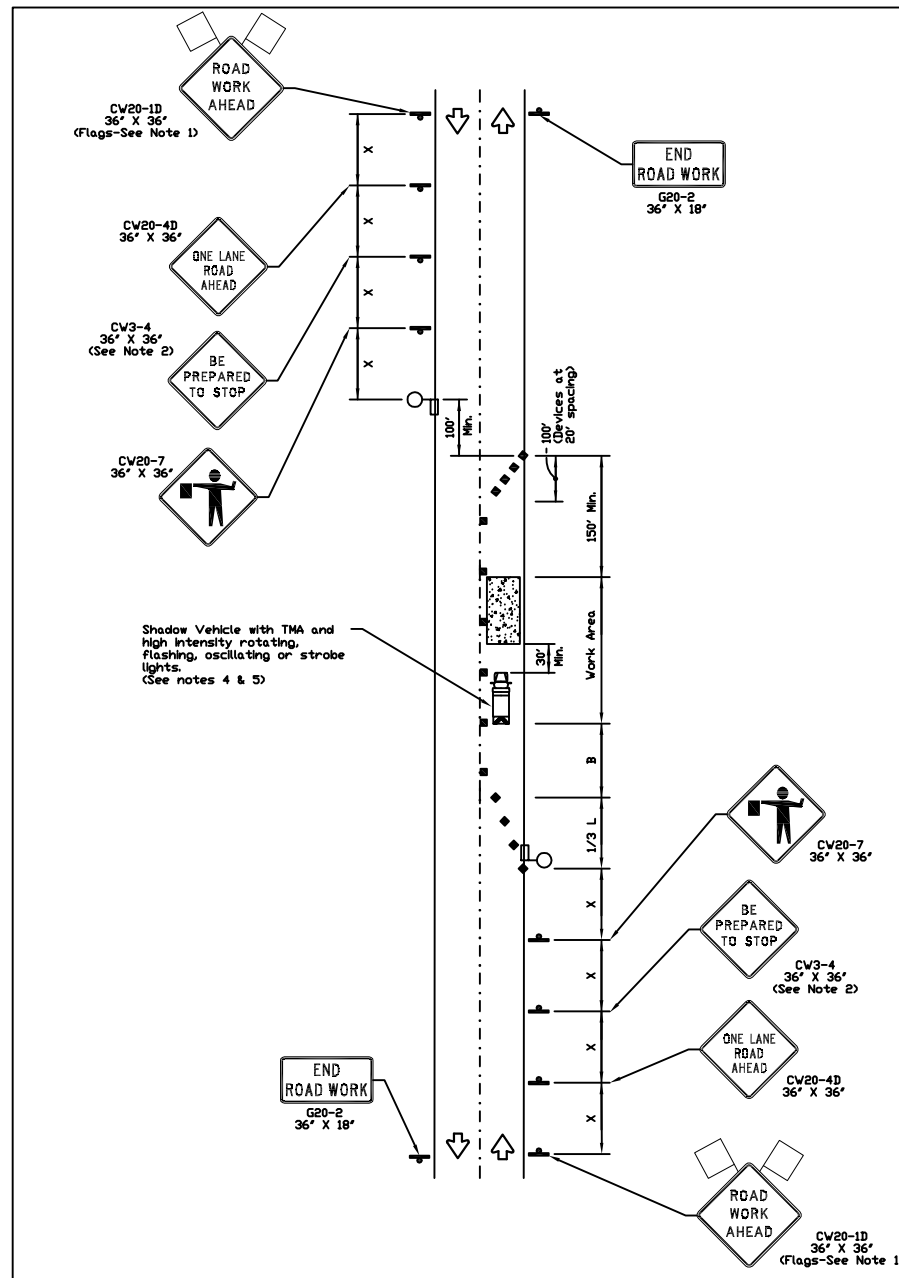
LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed #	Formula	Minimum Desirable Taper Lengths 'L'			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing 'S'	Suggested Longitudinal Buffer Space 'B'
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{V^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40	L=WS	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L=WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60	L=WS	600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70	L=WS	700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

- GENERAL NOTES
- Flags attached to signs where shown are OPTIONAL.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
 - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
 - Contractor shall provide and install traffic control devices in conformance with part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD - Latest edition with revisions) during construction.
 - Flaggers should use two-way radios or other methods of communication to control traffic.
 - Length of work space should be based on the ability of flaggers to communicate.
 - If the work space is located near horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distances to the flogger and a queue of stopped vehicles (see table above).
 - Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.
 - Flaggers should use 24" STOP/SLDW paddles to control traffic. Flags should be limited to emergency situations.
 - No lanes shall be blocked from 7am to 9am and 4pm to 6:30pm Monday thru Friday.
 - Off duty police officers required to direct traffic when applicable.
 - If project is within 400 feet from a signalized intersection, the Contractor shall contact Harris County Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.



ONE-LANE TWO-WAY SINGLE LANE CLOSURE
 CONTROL WITH FLAGGERS
 (ON STRAIGHT SECTION OF ROADWAY)

NO.	REVISIONS	DATE	NAME
1	UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH

FORT BEND COUNTY
 ENGINEERING DEPARTMENT

FOR INTERIM REVIEW ONLY
 DOCUMENT INCOMPLETE:
 NOT INTENDED FOR CONSTRUCTION,
 BIDDING, OR PERMIT PURPOSES
 ENGINEER: NAME
 P.E. SERIAL No. NUMBER
 DATE: / /

PROJECT TITLE:
 DRAWN BY: BSH
 CK'D BY: BSH
 SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (ONE-LANE, TWO-WAY OPERATION)
 SCALE: N.T.S.
 DATE: 6/26/14
 APPROVED BY:
 HCD STANDARD: 39
 SHEET NO: /