



**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: 2018-18599

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: _____
- Performance bond submitted. Bond No: ██████████ Amount: \$50,000.00
- 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.

Charles O. Ay

Permit Administrator

2/16/2018

Date



**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: 2018-18599

Applicant: Fibernet Direct Texas, LLC

Job Location Site: 24210 Westheimer Parkway (Span-313A), Katy, TX 77494

Bond No. **Date of Bond:** 7/26/2016 **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.

On this 27th day of February, 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. _____

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court

By: _____
Deputy

Fort Bend County

Notice of Construction in Right-of-Way

RING HO 01006A - Span 313A - Westheimer Pkwy.

**PROPOSED BORED HDPE INNERDUCT AND FIBER TO BE PLACED
ALONG THE SOUTH R.O.W. OF WESTHEIMER PKWY. BETWEEN
GLENTHORPE LN. AND CINCO RANCH BLVD. FOR A LENGTH OF 206'.**

PERMITS REQUIRED /CONTACTS

FORT BEND COUNTY
CARMEN ESCOBAR, CFM
PERMIT ADMINISTRATOR
FORT BEND COUNTY ENGINEERING
281-633-7503

WRITTEN NOTICES ARE REQUIRED:

1. 48 HOURS IN ADVANCE OF START OF CONSTRUCTION.
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

DRAWING LIST

1. COVER SHEET
2. GENERAL NOTES
3. LEGEND
4. PROJECT SHEET 10
5. PROFILE SHEET

DESIGN CONTRACTOR:

Design Co: FiberComm Services, LLC
Designer: Larry Anderson
Phone#: 713-726-1928

CONTRACTOR NOTE

PRIOR TO STARTING THE PROJECT THE CONTRACTOR WILL MEET WITH THE PROJECT MANAGER AT CROWN CASTLE FIBER OFFICE TO GO OVER THE PROJECT DETAILS FOR CONSTRUCTION. THE CONTRACTOR WILL MARK UP A SET OF DRAWINGS TO ENSURE BOTH THE PROJECT MANAGER AND THE CONTRACTOR HAS A CLEAR UNDERSTANDING AS TO WHAT IS EXPECTED OF THE CONTRACTOR TO COMPLETE. CONTRACTOR WILL IMMEDIATELY NOTIFY THE PROJECT MANAGER PRIOR TO ANY CHANGES, REQUESTS FROM OTHER AGENCIES AND ALL UNINTENTIONAL INCIDENTALS AND WILL ALSO FOLLOW-UP WITH AN EMAIL STATEMENT REGARDING THE REQUEST.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A FULL SET OF DRAWINGS, ALL REQUIRED PERMITS AND THE REQUIRED SAFETY ITEMS AT ALL PROJECT LOCATIONS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT A COMPLETE SET OF AS-BUILT DRAWINGS (AS-BUILT - RED-LINE) OF ALL PERFORMED WORK PRIOR TO INVOICING. ALL AS-BUILT DRAWINGS MUST INCLUDE PICTURES OF ALL PHASES OF PERFORMED WORK. ALL LINE ITEMS THAT REQUIRE PRICING WILL HAVE PICTURES AS BACKUP. TO THE PERFORMED WORK AREA.

48 HOURS PRIOR TO CONSTRUCTION CONTACT CROWN CASTLE FIBER MANAGEMENT TEAM BY EMAIL NOTIFICATION.

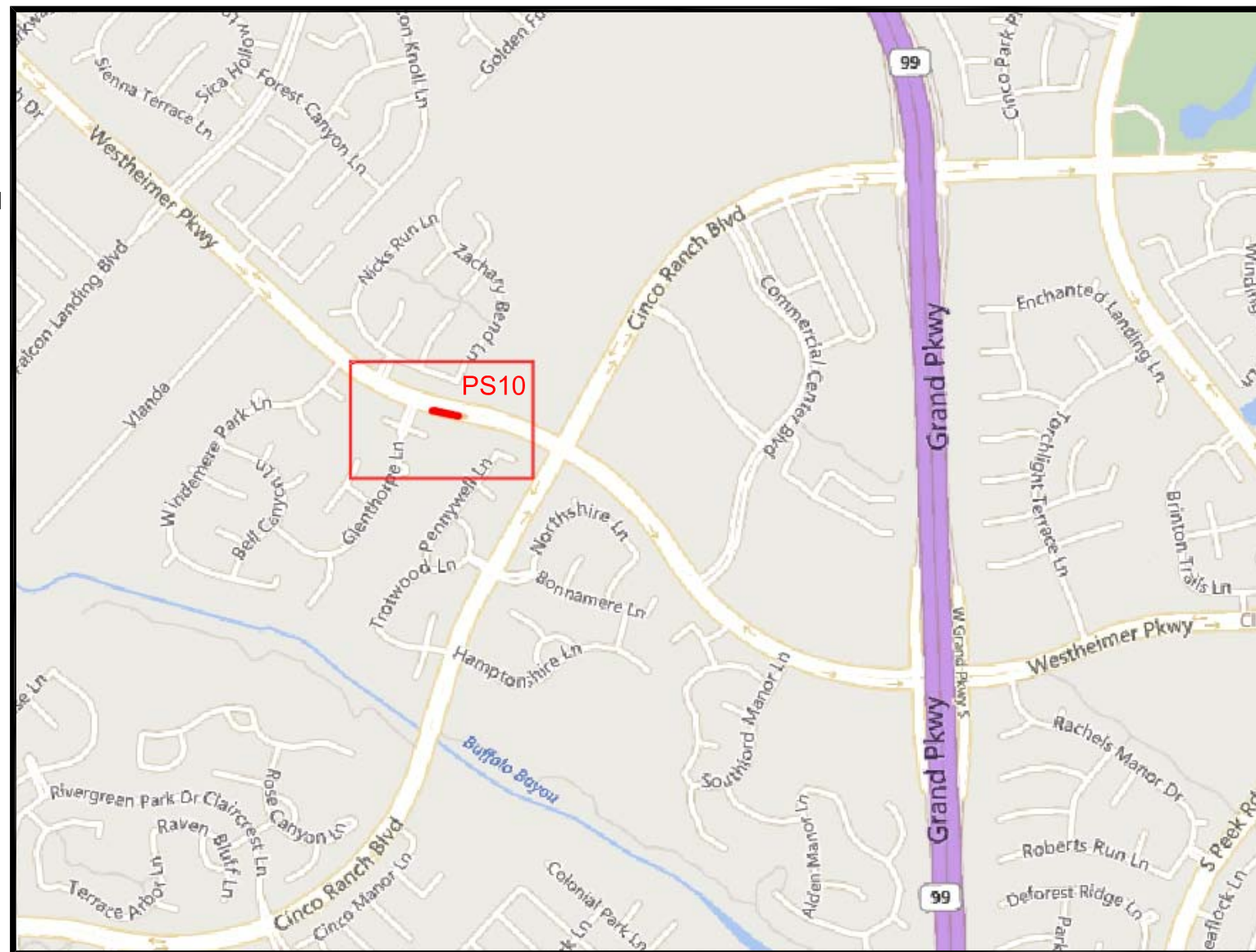
TITLE: HO 01008A - SPAN 313A - FT. BEND PERMIT
Westheimer Parkway

LOC: Katy, TX		
PMO# / TGT BUILDING ID: N/A		
PM: Brent Perdue 832-786-7853		
DWG: Ft Bend County - Span 313A - Westheimer Pkwy		
DRAWING	DATE	ENG DESIGN
ORIGINAL	02/07/18	FCS
Rev#1	N/A	N/A
AS-BUILT	N/A	N/A

	PAGE:	1
	OF:	5
PROPRIETARY INFORMATION OF CROWN CASTLE FIBER		

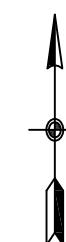
MAP AREA LOCATION:

A - LOC: HO01008A / CWDM / HO
0012-108892-KATY
A - ADDRESS: 26734 CLAY RD.
Z LOC: HO01008A / CWDM / HO
0012-184301-HORN-HGCW_TX
Z - ADDRESS: 2816 1/2 GREENBUSCH
RD.



SITE LOCATION

KEY MAP: 444 Y & Z, 485 T, 524 G



Know what's below.
Call before you dig.

GENERAL NOTES

GENERAL NOTES:

1. CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE GROUND.
2. THE CONTRACTOR SHALL CONTACT A MEMBER OF TEXAS ONE CALL SYSTEM A MIN. OF 48 HOURS BEFORE DIGGING. YOU ONLY NEED TO CONTACT ONE CENTER. THAT CENTER WILL RELAY THE INFORMATION TO THE OTHER TWO CENTERS.
 - TEXAS ONE CALL 713-223-4567 OR 1-800-245-4545
 - TESS (TEXAS EXCAVATION SAFETY SYSTEM) 811
 - LONE STAR NOTIFICATION SYSTEM 800-669-8344 OR 713-223-4567
 - REMINDER : ANY UNDERGROUND FACILITY OWNERS WHO ARE NOT MEMBERS OF TEXAS ONE CALL, TESS OR LONESTAR
3. NOTIFICATION CENTERS IN THE STATE OF TEXAS, MUST BE CONTACTED DIRECTLY BY THE ORIGINATOR OF THE LOCATION REQUEST.
4. CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES.
5. THE CONTRACTOR SHALL VERIFY THE ROAD R.O.W. AND EASEMENTS PROIR TO COMMENCING WORK. NO FACILITIES SHOULD BE PLACED ON PRIVATE PROPERTY UNLESS OTHERWISE SPECIFIED.
6. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND FACILITIES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER AND STORM DRAINAGE LINES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE MUNICIPALITY AGENCY (STATE, COUNTY, OR CITY), DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION S SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING REFERENCED ABOVE, AT NO ADDITIONAL COST.
8. ALL CABLE WILL BE PLACED AT STANDARD MINIMUM DEPTH. (CROWN CASTLE FIBER STANDARD IS 48" DEEP UNLESS OTHERWISE DIRECTED BY A CROWN CASTLE FIBER REPRESENTATIVE OR SPECIFIED ON THE DRAWING.)
9. NO MORE TRENCH OPENED AT ONE TIME THAN CAN BE BACKFILLED AND COMPACTED IN 10" LIFTS AT THE END OF EACH DAY. (NO TRENCH LEFT OPENED OVERNIGHT)
10. ALL EXCESS EXCAVATION TO BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF EACH DAY.
11. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
12. ROAD MUST BE KEPT OPEN TO TRAFFIC AND CONTRACTOR MUST PROVIDE ADEQUATE FLAGMEN, SIGNALS, ETC., TO PROVIDE COMPLETE SAFETY TO THE PUBLIC. IF IT BECOMES NECESSARY FOR EQUIPMENT TO OPERATE ON A PORTION OF THE PAVEMENT, PRECAUTIONS MUST BE TAKEN TO PREVENT ANY DAMAGE WHATSOEVER TO THE PAVEMENT.
13. CONDITION OF ROAD UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING
14. CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
15. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS, AND TREES ALONG THE AREA OF EXCAVATION.
16. NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL RIGHT OF ENTRY OR EASEMENT IS GRANTED.
17. CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE CROWN CASTLE FIBER REPRESENTATIVE ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK.
18. PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.
19. ALL WORK IS TO BE IN ACCORDANCE WITH THE STANDARDS OF ALL AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.
20. CONTRACTORS ARE ADVISED TO CONTACT CROWN CASTLE FIBER FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.
21. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT YOUR CROWN CASTLE FIBER REPRESENTATIVE BEFORE PROCEEDING.
22. BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.
23. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS, AND TREES ALONG THE AREA OF EXCAVATION.
24. CONTRACTOR WILL COMPLETE ALL WORK PER "CROWN CASTLE FIBER" CONSTRUCTION SPECIFICATIONS.
25. CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS RECORDING AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE REDLINE MARKED UP DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT WHO WILL MAKE THE CHANGES ON THE AS-BUILT RECORD DRAWINGS.
26. RIGHT-OF-WAY WILL BE RESTORED TO EQUAL OR BETTER CONDITION WHEN CONSTRUCTION IS COMPLETE.

ABBR.	DESCRIPTION
B.O.	BUILDING OWNED
B.O.C.	BUILDING OWNED CONDUIT
EOC	EDGE OF CURB
EMT	ELECTIC METALLIC TUBING
EOP	EDGE OF PAVEMENT
FDP	FIBER DISTRIBUTION PANEL
FF	FINISHED FLOOR
FMC	FLEXIBLE METALLIC CONDUIT
GRC	GALVANIZED RIGID CONDUIT
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
PB	PULLBOX
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
ROW	RIGHT OF WAY
SP	SPLICE PANEL
STA.	STATION
S/W	SIDEWALK

APWA STANDARD

COLOR CODE FOR TEMPORARY MARKING OF UNDERGROUND FACILITIES:

RED = ELECTRIC POWERLINES, CABLES, CONDUIT, AND LIGHTING CABLES
 YELLOW = GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIAL
 ORANGE = COMMUNICATION, ALARM, OR SIGNAL LINES, CABLES, OR CONDUIT
 BLUE = POTABLE WATER
 GREEN = SEWER AND DRAIN LINES
 PURPLE = RECLAIMED WATER, IRRIGATION, AND SLURRY
 PINK = TEMPORARY SURVEY MARKINGS
 WHITE = PROPOSED EXCAVATION



Know what's below.
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TITLE: HO 01008A – SPAN 313A – FT. BEND PERMIT Westheimer Parkway		
LOC: Katy, TX		
PMO# / TGT BUILDING ID: N/A		
PM: Brent Perdue 832-786-7853		
DWG: Ft Bend County – Span 313A – Westheimer Pk		
DRAWING	DATE	ENG DESIGN
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Rev#1	N/A	N/A
AS-BUILT	N/A	N/A
		PAGE: 2
		OF: 5
PROPRIETARY INFORMATION OF CROWN CASTLE FIBER		

LEGEND

	BOND	<table border="1"><tr><td>POLE NO.</td><td>1</td></tr><tr><td>ATTACHMENT</td><td>00'-00"</td></tr></table>	POLE NO.	1	ATTACHMENT	00'-00"	POLE ATTACHMENT EXISTING		CABLE SIZE EXISTING		EOP	CIVIL - EDGE OF PAVEMENT									
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	JOINT USE POLE W/ TRANSFORMER	P-P= FTG	STRAND FTG. EXISTING		SLACK LOOP AERIAL EXISTING		R/W	CIVIL - RIGHT OF WAY													
	POWER POLE	P-P= FTG	STRAND FTG. PROPOSED		SLACK LOOP AERIAL PROPOSED		A	P - FIBER - AERIAL - EXISTING													
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	STEEL POLE	<table border="1"><tr><td>MH</td><td>0+00 CC FIBER MANHOLE SIZE</td></tr></table>	MH	0+00 CC FIBER MANHOLE SIZE	MANHOLE PROPOSED		SLACK UG PROPOSED		ABAN	P - FIBER - ISP - EXISTING											
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	CONCRETE POLE	<table border="1"><tr><td>HH</td><td>0+00 OWNER HANDHOLE SIZE</td></tr></table>	HH	0+00 OWNER HANDHOLE SIZE	HANDHOLE EXISTING		SPLICE CASE EXISTING		FX	P - FIBER - ISP - PROPOSED											
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	EXISTING EXTENDED MESSENGER	<table border="1"><tr><td>PB</td><td>0+00 CC FIBER SIZE</td></tr></table>	PB	0+00 CC FIBER SIZE	PULLBOX PROPOSED	<table border="1"><tr><td>1</td><td>CABLE FIBERS: FIBERS</td></tr><tr><td></td><td>CABLE OWNER: CC FIBER</td></tr><tr><td></td><td>CABLE LENGTH: FTG</td></tr><tr><td></td><td>NOTES:</td></tr></table>	1	CABLE FIBERS: FIBERS		CABLE OWNER: CC FIBER		CABLE LENGTH: FTG		NOTES:	CABLE FIBERS: FIBERS CABLE OWNER: CC FIBER CABLE LENGTH: FTG NOTES:		UTILITIES - WATER				
PB	0+00 CC FIBER SIZE																				
1	CABLE FIBERS: FIBERS																				
	CABLE OWNER: CC FIBER																				
	CABLE LENGTH: FTG																				
	NOTES:																				
	PROPOSED EXTENDED MESSENGER																				
	OVERHEAD GUY EXISTING																				
	OVERHEAD GUY PROPOSED																				

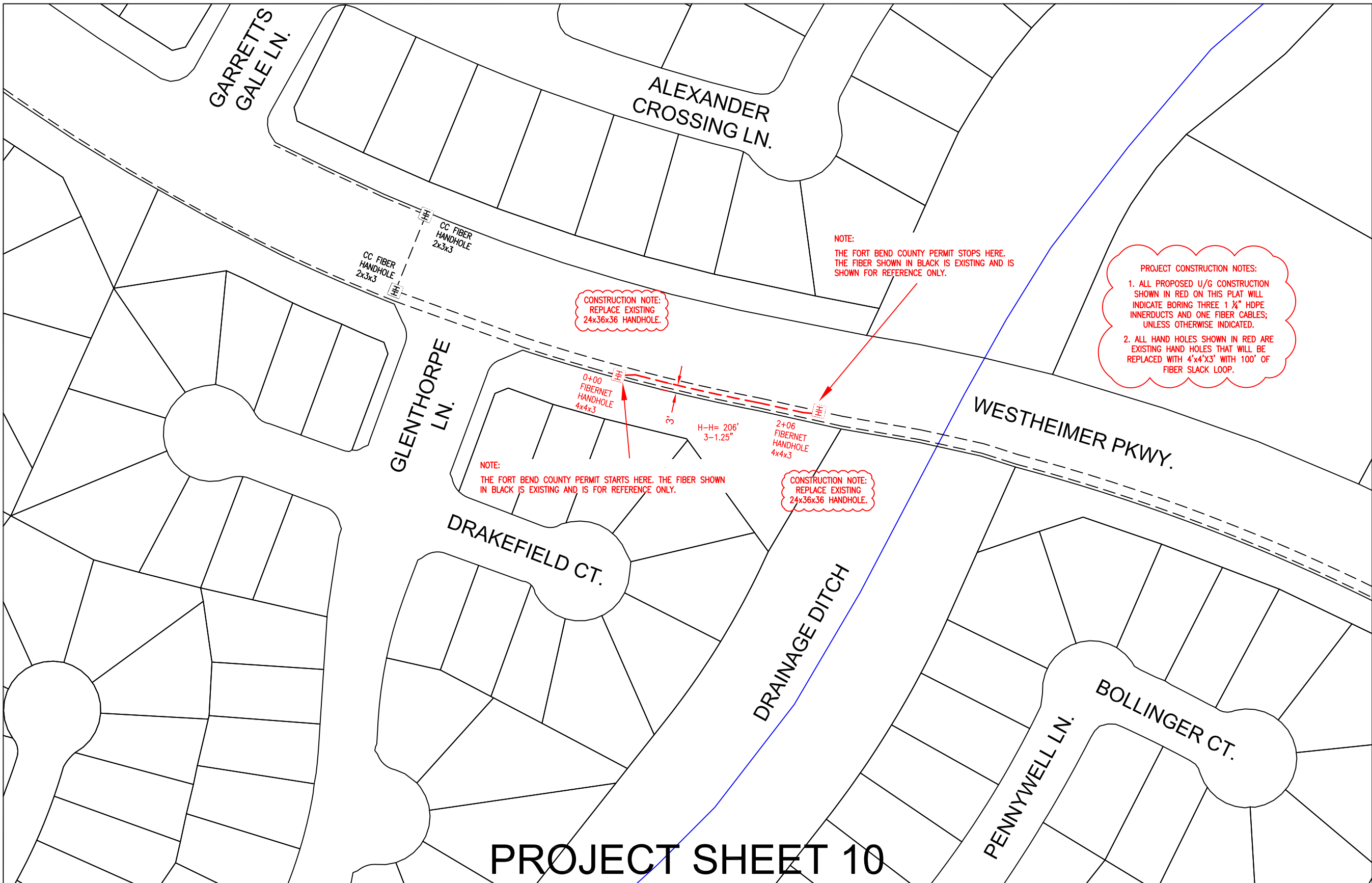
LINETYPES

	EOP	CIVIL - EDGE OF CURB
	EOP	CIVIL - EDGE OF PAVEMENT
	PL	CIVIL - PROPERTY LINE
	R/W	CIVIL - RIGHT OF WAY
	A	P - FIBER - AERIAL - EXISTING
	A	P - FIBER - AERIAL - PROPOSED
	A	P - FIBER - ISP - EXISTING
	A	P - FIBER - ISP - PROPOSED
	ABAN	P - FIBER ABANDON
	FX	P - FIBER REMOVE
		P - STRAND EXISTING
		P - STRAND PROPOSED
		P - STRAND-DEMO
		P - DUCT ISP EXISTING
		P - DUCT ISP PROPOSED
		P - FIBER - BURIED - EXISTING
		P - FIBER - BURIED - PROPOSED
		P - DUCT EXISTING
		P - DUCT PROPOSED
	G	UTILITIES - GAS
	SS	UTILITIES - SANITARY SEWER
	SL	UTILITIES - STORM
	W	UTILITIES - WATER



Know what's below.
Call before you dig.

TITLE: HO 01008A - SPAN 313A - FT. BEND PERMIT Westheimer Parkway			
LOC: Katy, TX			
PMO# / TGT BUILDING ID: N/A			
PM: Brent Perdue 832-786-7853			
DWG: Ft Bend County - Span 313A - Westheimer Pk			
DRAWING	DATE	ENG DESIGN	
ORIGINAL	02/07/18	FCS	
Rev#1	N/A	N/A	
AS-BUILT	N/A	N/A	
CROWN CASTLE FIBER			PAGE: 3
PROPRIETARY INFORMATION OF CROWN CASTLE FIBER			OF: 5



PROJECT CONSTRUCTION NOTES:

1. ALL PROPOSED U/G CONSTRUCTION SHOWN IN RED ON THIS PLAT WILL INDICATE BORING THREE 1 1/4" HDPE INNERDUCTS AND ONE FIBER CABLES; UNLESS OTHERWISE INDICATED.
2. ALL HAND HOLES SHOWN IN RED ARE EXISTING HAND HOLES THAT WILL BE REPLACED WITH 4'x4'x3' WITH 100' OF FIBER SLACK LOOP.

CONSTRUCTION NOTE:
REPLACE EXISTING
24x36x36 HANDHOLE.

CONSTRUCTION NOTE:
REPLACE EXISTING
24x36x36 HANDHOLE.

NOTE:
THE FORT BEND COUNTY PERMIT STARTS HERE. THE FIBER SHOWN IN BLACK IS EXISTING AND IS FOR REFERENCE ONLY.

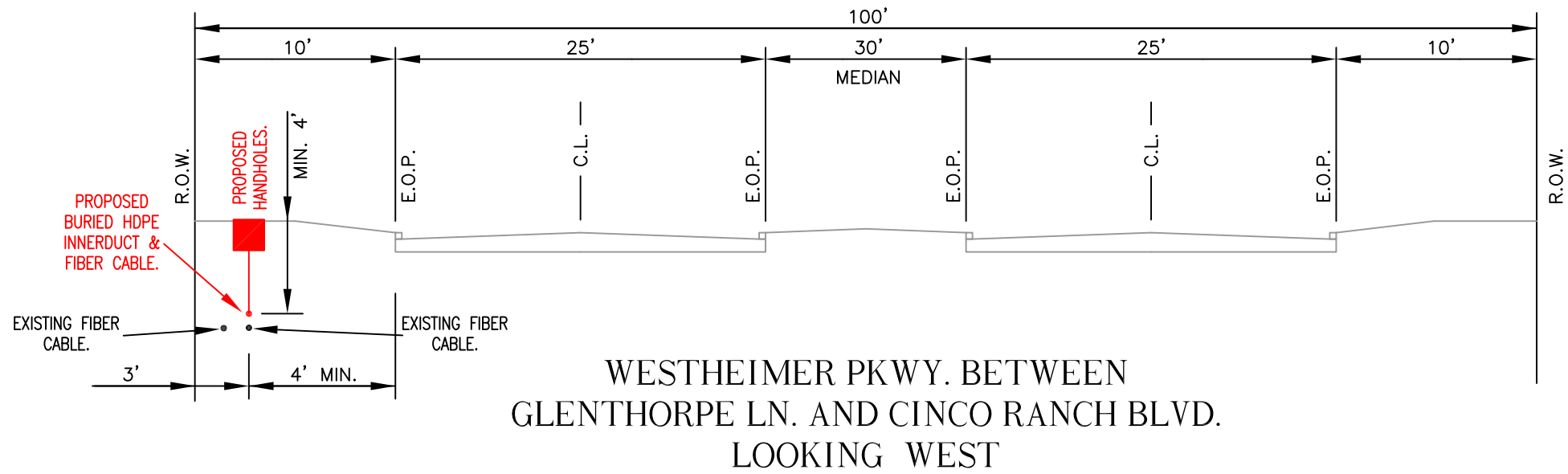
NOTE:
THE FORT BEND COUNTY PERMIT STOPS HERE. THE FIBER SHOWN IN BLACK IS EXISTING AND IS SHOWN FOR REFERENCE ONLY.

PROJECT SHEET 10


811
Know what's below.
Call before you dig.

0 25' 50' 75' 100'
SCALE: 1"=100'

TITLE: HO 01008A - SPAN 313A - FT. BEND PERMIT Westheimer Parkway			
LOC: Katy, TX			
PMO# / TGT BUILDING ID: N/A			
PM: Brent Perdue 832-786-7853			
DWG: Ft Bend County - Span 313A - Westheimer Pkwy			
DRAWING	DATE	ENG DESIGN	
ORIGINAL	02/07/18	FCS	
Rev#1	N/A	N/A	
AS-BUILT	N/A	N/A	
			PAGE: 4
PROPRIETARY INFORMATION OF CROWN CASTLE FIBER			OF: 5



PROFILE SHEET

TITLE: HO 01008A - SPAN 313A - FT. BEND PERMIT Westheimer Parkway		
LOC: Katy, TX		
PMO# / TGT BUILDING ID: N/A		
PM: Brent Perdue 832-786-7853		
DWG: Ft Bend County - Span 313A - Westheimer Pk		
DRAWING	DATE	ENG DESIGN
ORIGINAL	02/07/18	FCS
Rev#1	N/A	N/A
AS-BUILT	N/A	N/A
		PAGE: 5
		OF: 5
PROPRIETARY INFORMATION OF CROWN CASTLE FIBER		

Notes for Figure 6H-1—Typical Application 1 Work Beyond the Shoulder

Guidance:

1. *If the work space is in the median of a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.*

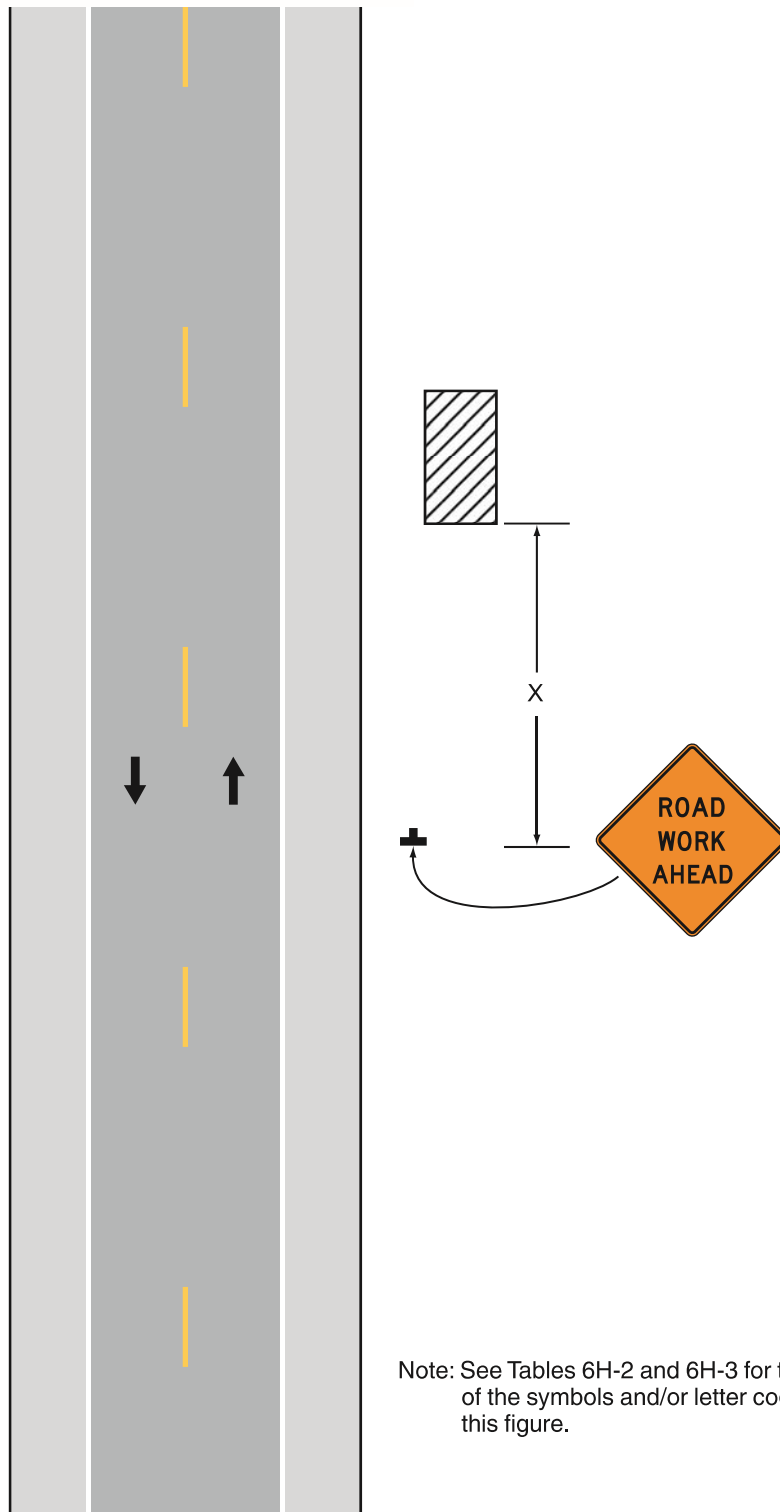
Option:

2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 24 inches behind the curb, or 15 feet or more from the edge of any roadway.
4. For short-term, short duration or mobile operation, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

Figure 6H-1. Work Beyond the Shoulder (TA-1)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 1

Notes for Figure 6H-3—Typical Application 3 Work on the Shoulders

Guidance:

1. A *SHOULDER WORK* sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

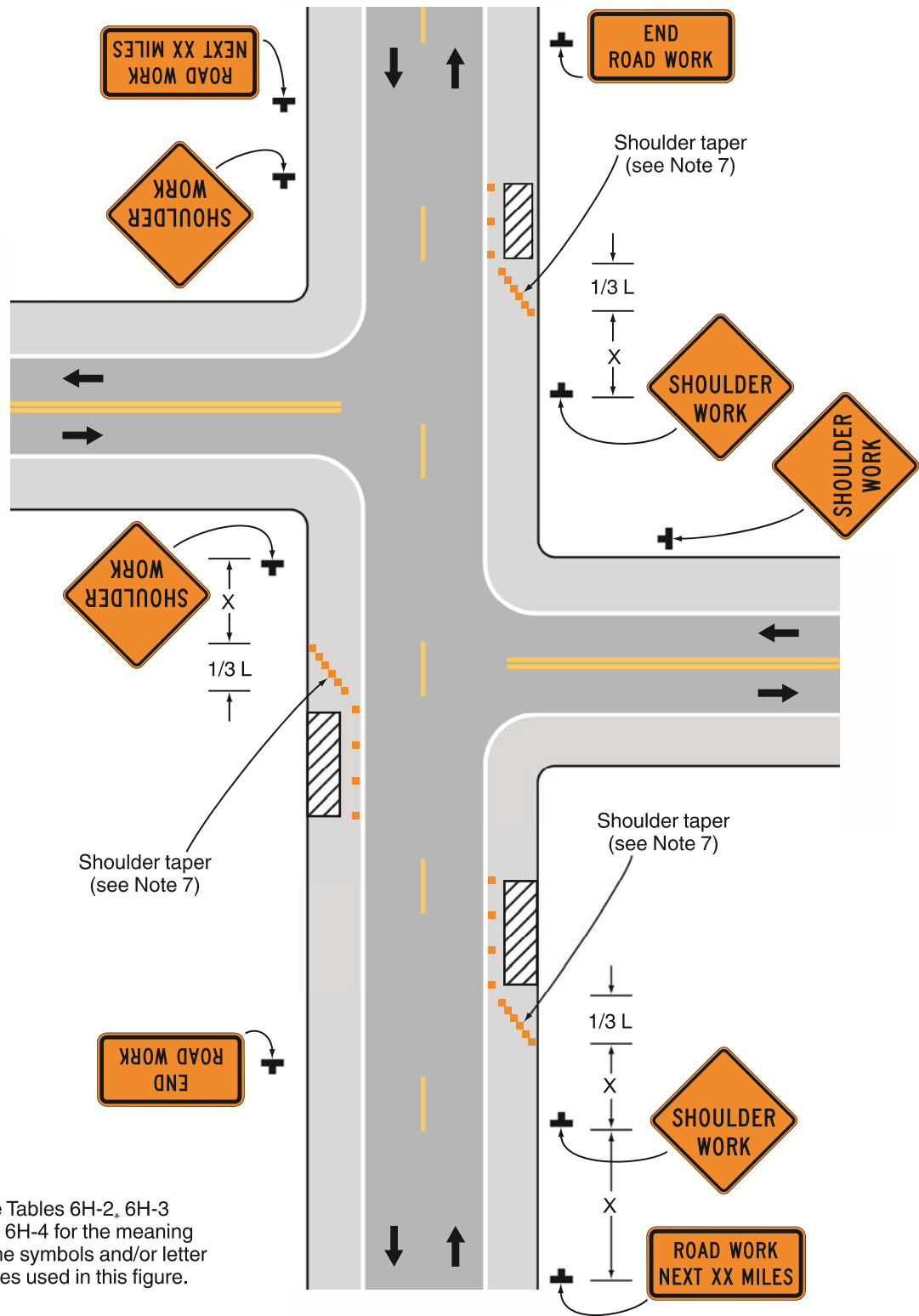
Option:

2. The Workers symbol signs may be used instead of *SHOULDER WORK* signs.
3. The *SHOULDER WORK AHEAD* sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**
7. **When paved shoulders having a width of 8 feet or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.**

Figure 6H-3. Work on the Shoulders (TA-3)



Note: See Tables 6H-2, 6H-3 and 6H-4 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 3