

## REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

# Fort Bend County Engineering Department 301 Jackson Suite 401

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

	Priveway Permit									
Permit No: 2018-23	633									
Applicant: Windstream Communications, LLC										
Job Location Site: 10007 Clodine Road, Richmond, TX 77407										
Bond No. Date of Bond: 4/13/	2018 Amount: \$50,000.00									
	ssed by the Commissioners Court of Fort Bend County, t Bend County, Texas, to the extent that such order is not									
grounds for job shutdown.  2. Written notices are required:  a. 48 hours in advance of construction is b. When construction is completed and Administrator thru MyGovernmentO  3. This permit expires one (1) year from date of perm	ready for final inspection, submit notification to Permit online.org portal.  nit if construction has not commenced.  t-of-ways owned and maintained by Fort Bend County only,									
	d carried, it is ORDERED, ADJUDGED AND DECREED that said the Commissioners Court of Fort Bend County, Texas, and									
By: County Engineer	Presented to Commissioners Court and approved.  Date Recorded 11-16-2018 Comm. Court No. 14-6									
N/A By:	Clerk of Commissioners Court  By: And Ulls									
Drainage District Engineer/Manager	Deputy									

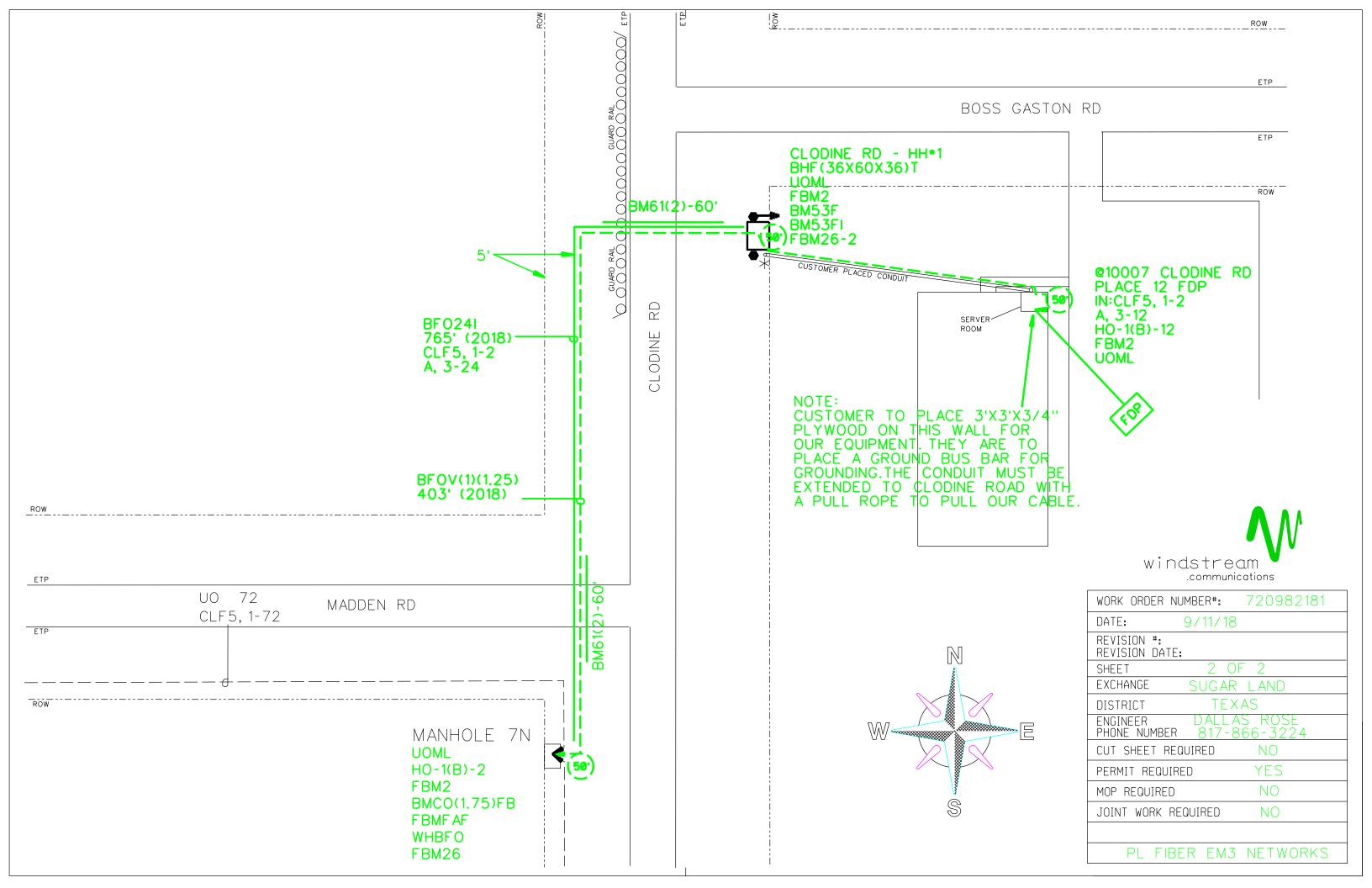


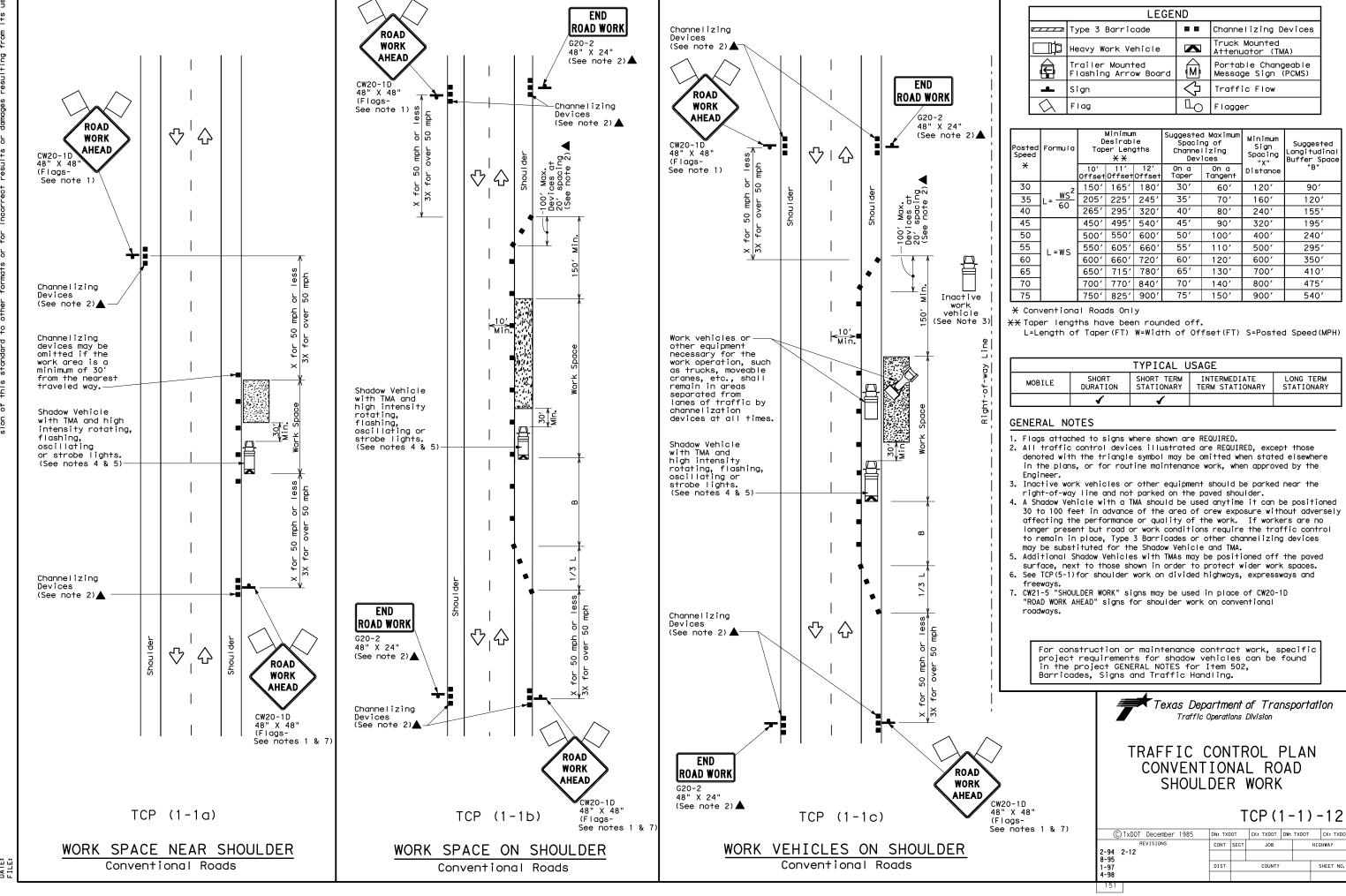
## PERMIT APPLICATION REVIEW FORM FOR CABLE, CONDUIT, AND POLE LINE ACTIVITY IN FORT BEND COUNTY

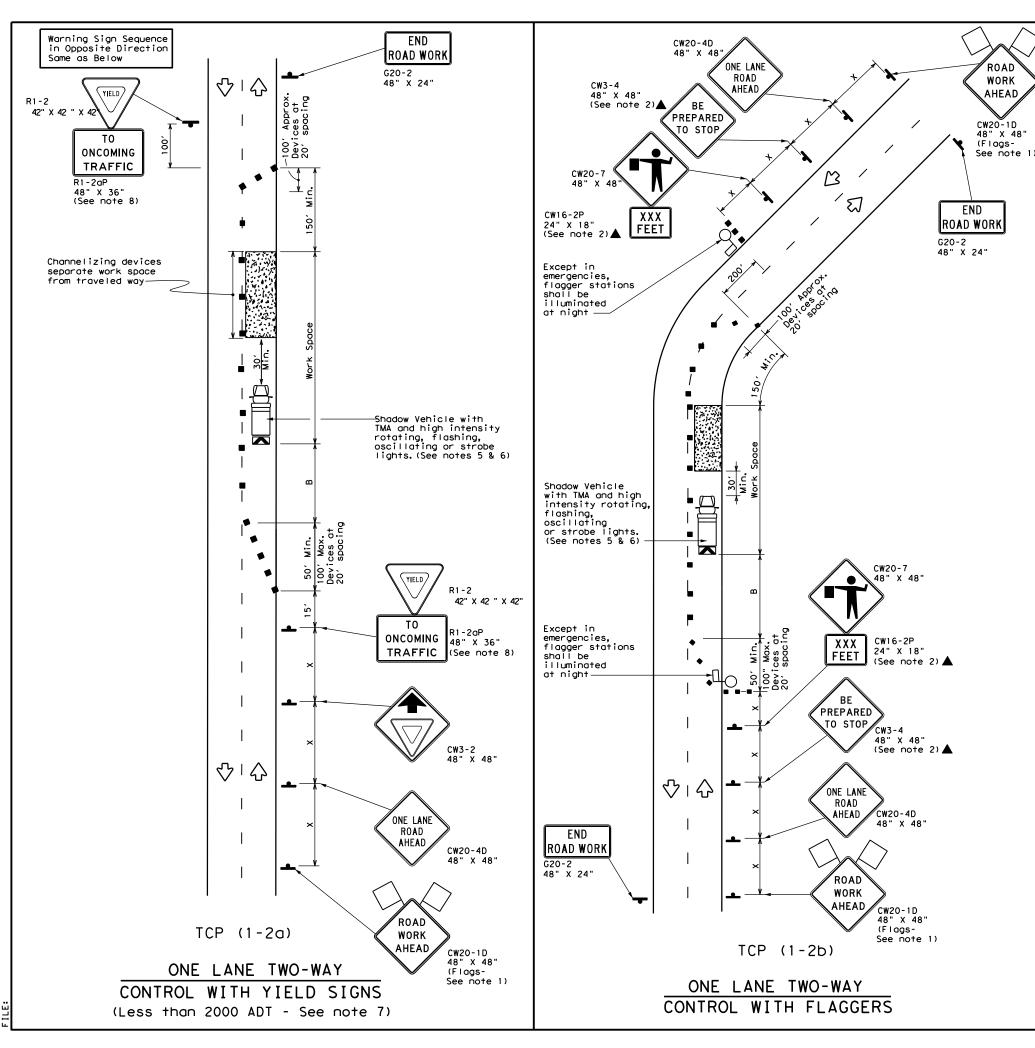
## **Fort Bend County**

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

BEND COL	= -	nt of Way Permit		
		nmercial Driveway Per	mit	
	Permit No	2018-23633	_	
	e of Proposed Cable, Conde en reviewed and the notic Texas.			
(1) COMPLETE APPLIC	CATION FORM:			
	ne of road, street, and/or	drainage ditch affecte	d.	
X b. Vici	nity map showing course	of directions		
X c. Plan	ns and specifications			
(2) BOND:				
Count	y Attorney, approval when	n		
X Perper posted	tual bond currently d.	Bond No:	Amount: \$	\$50,000.00
Perfor	mance bond submitted.	Bond No:	Amount:	
Cashie	er's Check	Check No:	Amount:	
(3) DRAINAGE DIS	TRICT APPROVAL (WHE	N APPLICABLE):		
Drainage District Appr	roval	-	Date	
We have reviewed th	nis project and agree it m	neets minimum requir	ements.	
hand	1 the			11/2/2018
Permit Administrator				Date







	LEGEND								
~		Type 3 Barricade	0 0	Channelizing Devices					
	Þ	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)					
	•	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)					
_	-	Sign	♡	Traffic Flow					
$\bigcirc$	۸	Flag	ПО	Flagger					

Formula	Minimum Desirable Taper Lengths **			Spacing of		Sign Spacing		Stopping Sight Distance
	10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"	
2	1501	1651	1801	30′	60′	1201	90,	2001
L = WS	2051	225'	245′	35′	70′	160'	120′	250′
60	2651	2951	3201	40'	80′	240′	155′	3051
	450′	4951	540′	45′	90′	320′	195′	360′
	5001	550'	600'	50′	100′	4001	240′	425′
   = ws	550′	6051	660′	55′	110′	500′	295′	495′
- "3	600'	660′	7201	60′	120'	600′	350′	570′
	650′	715′	780′	65′	130′	700′	410′	645′
	7001	770'	8401	701	140'	800′	475′	730′
	750′	825′	900′	75′	150′	900'	540′	820′
	ws <sup>2</sup>	Formula Top  10' 0ffset  150' 205' 265' 450' 500' 550' 600' 650' 700'	Formula $ \begin{array}{c} \text{Desirab} \\ \text{Taper Lent} \\ \text{Noffset} \\ \text{Offset} \\ Offset$	Formula	Formula $ \begin{array}{c} Desirable \\ Taper Lengths \\ \times \times \\ \hline 10' \\ offset   Offset   Offset   Offset   Taper   Channe   Dev   Channe   Channe   Dev   Channe   $	Formula $ \begin{array}{c} \text{Desirable} \\ \text{Taper Lengths} \\ \text{Not offset offset offset offset offset} \\ \text{Desirable} \\ \text{Desirable} \\ \text{Spacing of Channelizing} \\ \text{Devices} \\ Device$	Formula $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Formula $ \frac{Desirable}{Taper Lengths} = \frac{Spacing}{Channelizing} \frac{of}{Spacing} \frac{Suggested}{Spacing} = \frac{Spacing}{Spacing} \frac{of}{Spacing} \frac{Suggested}{Spacing} = \frac{Suggested}{Suggested} = Sugges$

\* Conventional Roads Only

\*\* Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE								
MOBILE	SHORT SHORT TERM INTERMEDIATE LONG TERM DURATION STATIONARY TERM STATIONARY STATIONARY							
	1	1						

## GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- 3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- 4. Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
- 5. 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.
- 6. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

## TCP (1-2a)

- 7. R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 400 feet.
- 8. Ri-2 "YIELD" sign with Ri-20P "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.

## TCP (1-2b)

- 9. Flaggers should use two-way radios or other methods of communication to control traffic.
- 10. Length of work space should be based on the ability of flaggers to communicate. 11. If the work space is located near a horizontal or vertical curve, the buffer distances
- should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above). 12. Channelizing devices on the center-line may be omitted when a pilot car is leading
- traffic and approved by the Engineer.
- 3. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

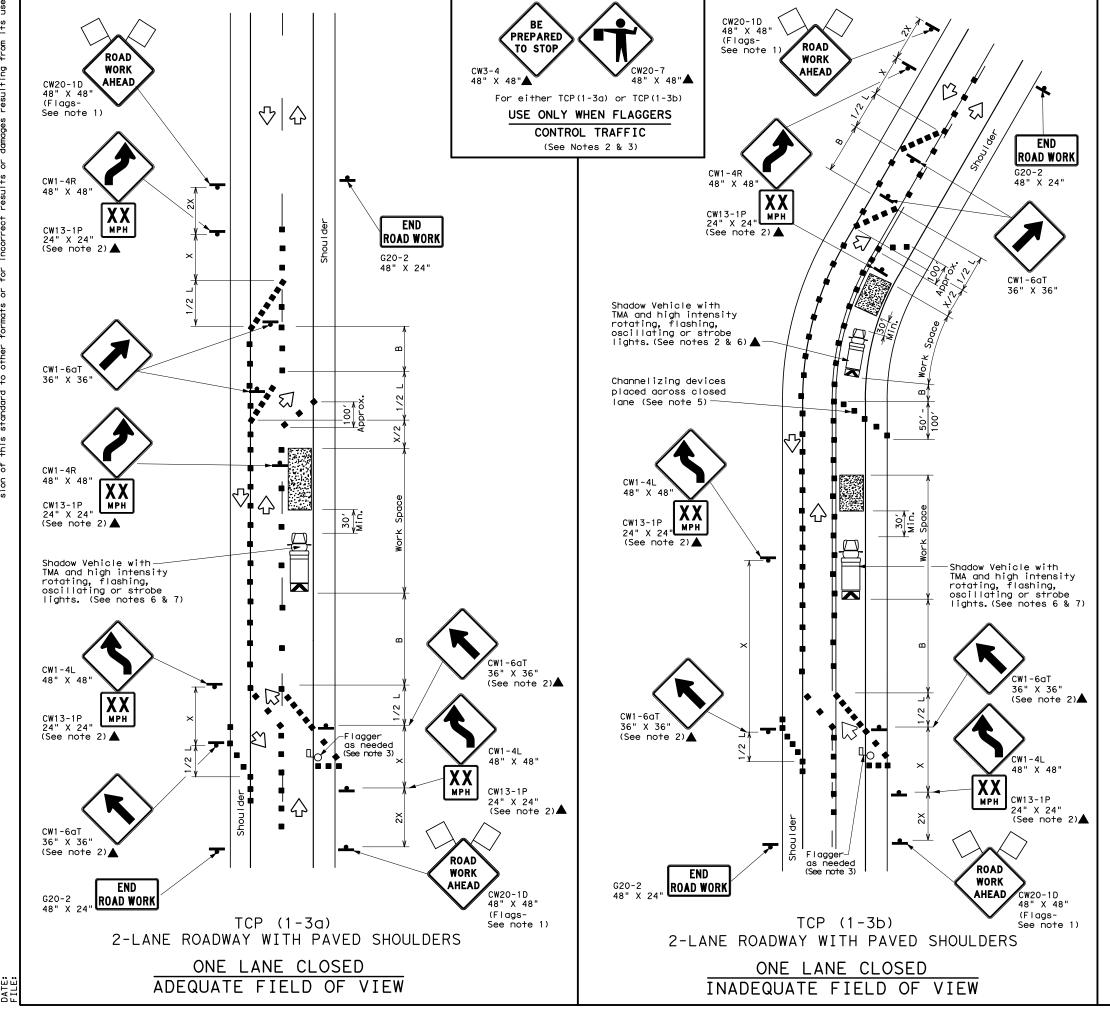
For construction or maintenance contract work, specific project requirements for shadow vehicles can oe found in the projec GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.



TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL

TCP (1-2)-12

© TxDOT December 1985	DN: TXD	тот	CK: TXDOT	DW: TXDOT	CK: TXDOT
REVISIONS 4-90 2-12	CONT	SECT	JOB		HIGHWAY
2-94					
1-97	DIST		COUNTY SHEE		
4-98					



	LEGEND									
	Type 3 Barricade		Channelizing Devices							
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)							
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)							
-	Sign	♡	Traffic Flow							
$\triangle$	Flag		Flagger							

Posted Speed	Minimum Desirable Formula Taper Lengths **			Spacir Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	ws <sup>2</sup>	150′	165′	180′	30′	60′	120′	90′
35	L= WS	205′	225′	245′	35′	70′	160′	120′
40	80	265′	295′	320′	40′	80′	240′	155′
45		450′	495′	540′	45′	90′	320′	195′
50		500′	550′	600′	50′	100′	400′	240′
55	L=WS	550′	605′	660′	55′	110′	500′	295′
60	] - ""	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) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE									
MOBILE	E SHORT SHORT TERM INTERMEDIATE LONG TERM DURATION STATIONARY TERM STATIONARY STATIONARY								
	✓	<b>√</b>							

### GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- 3. Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Additional flaggers may be positioned in advance of traffic queues to alert traffic to reduce speed.
- 4. DO NOT PASS, PASS WITH CARE and construction regulatory speed zone signs may be installed downstream of the ROAD WORK AHEAD signs.
- 5. When the work zone is made up of several work spaces, channelizing devices should be placed laterally across the closed lane to re-emphasize closure. Laterally placed channelizing devices should be repeated every 500 to 1000 feet in urban areas and every 1/4 to 1/2 mile in rural areas.
- 6. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of  $% \left( 1\right) =\left( 1\right) \left( 1\right)$  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.
- 7. Additional Shadow Vehicles with TMAs may be positioned off the paved
- surface, next to those shown in order to protect wider work spaces. 8. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20', or 15' if posted speed are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the area of conflicting markings not the entire work zone.

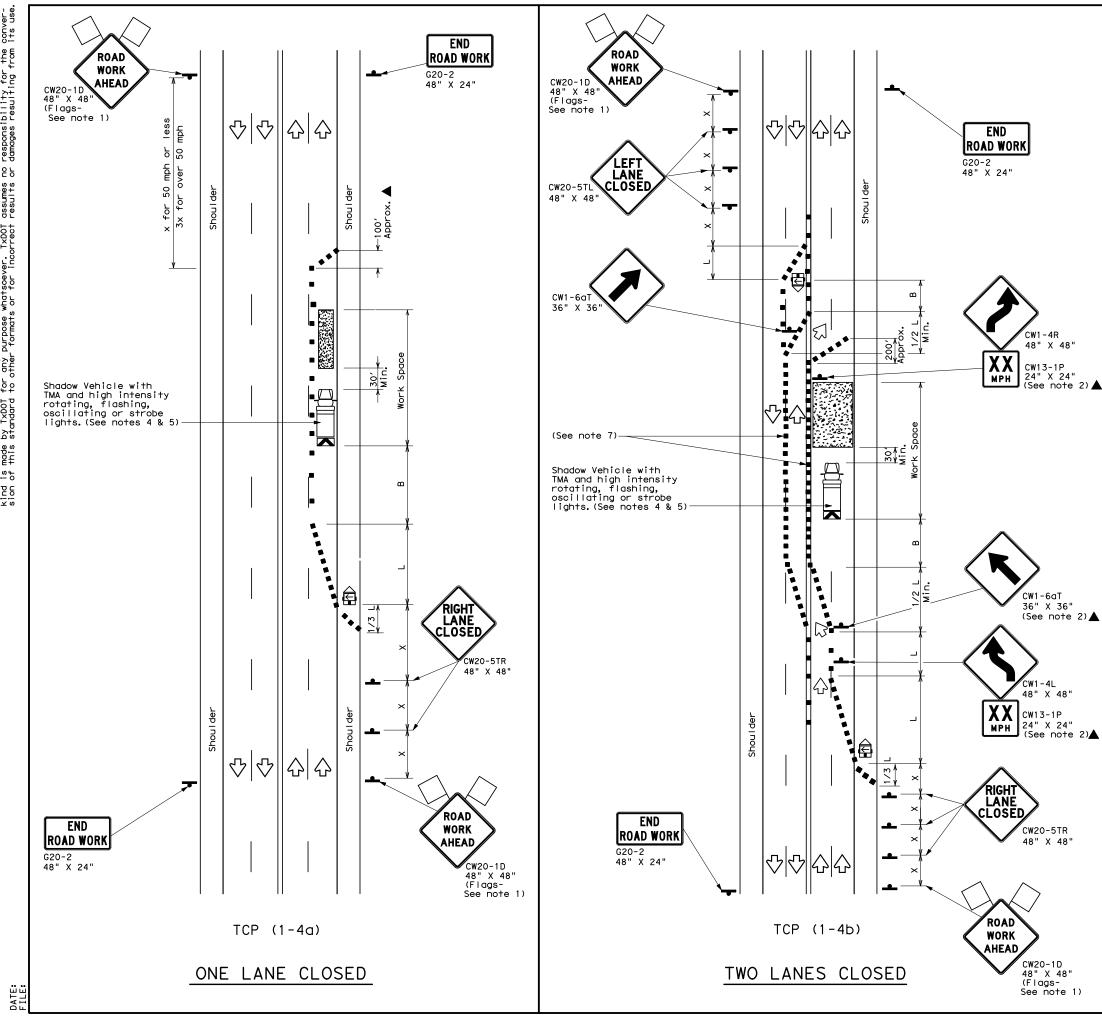
For construction or maintenance contract work specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic



TRAFFIC CONTROL PLAN TRAFFIC SHIFTS ON TWO LANE ROADS

TCP(1-3)-12

© TxDOT December 1985	DN: TX	то	CK: TXDOT	DW:	TXDOT	CK:	TXDO
REVISIONS	CONT	SECT	JOB		Н	GHWA	Y
2-94 2-12 8-95							
1-97	DIST		COUNTY			SHEE	T NO.
4-98							



	LEGEND									
~~~	Type 3 Barricade		Channelizing Devices							
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)							
	Trailer Mounted Flashing Arrow Board	( <u>X</u>	Portable Changeable Message Sign (PCMS)							
-	Sign	∿	Traffic Flow							
$\Diamond$	Flag	Ŋ	Flagger							

	_									
Posted Formula Speed		Minimum Desirable Taper Lengths **			Spacir Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space		
<del>  *</del>		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"		
30		150′	165′	180′	30′	60′	120′	90′		
35	L= WS	205′	225′	245′	35′	70′	160′	120′		
40	60	265′	295′	320'	40′	80′	240′	155′		
45		450′	495′	540′	45′	90′	320′	195′		
50		500′	550′	600′	50′	100′	400′	240′		
55	L=WS	550′	605′	660′	55′	110′	500′	295′		
60	L-W5	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) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
	1	1					

### GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer. 3. The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the
- visibility of the work zone is less than 1500 feet.

  4. 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 i place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

6. If this TCP is used for a left lane closure , CW20-5TL "LEFT LANE CLOSED signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed lane near the end of the merging taper.

7. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

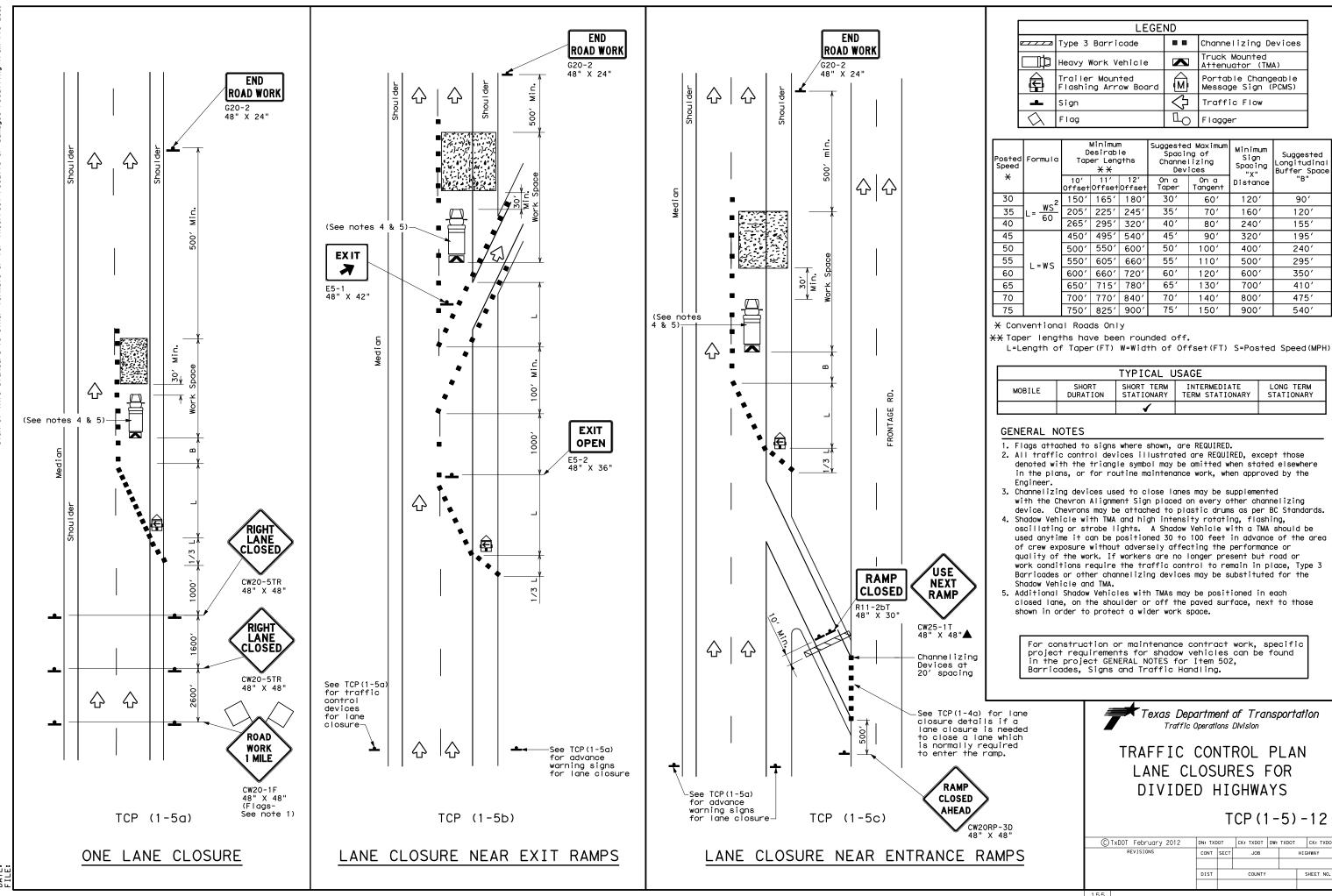
For construction or maintenance contract work. specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

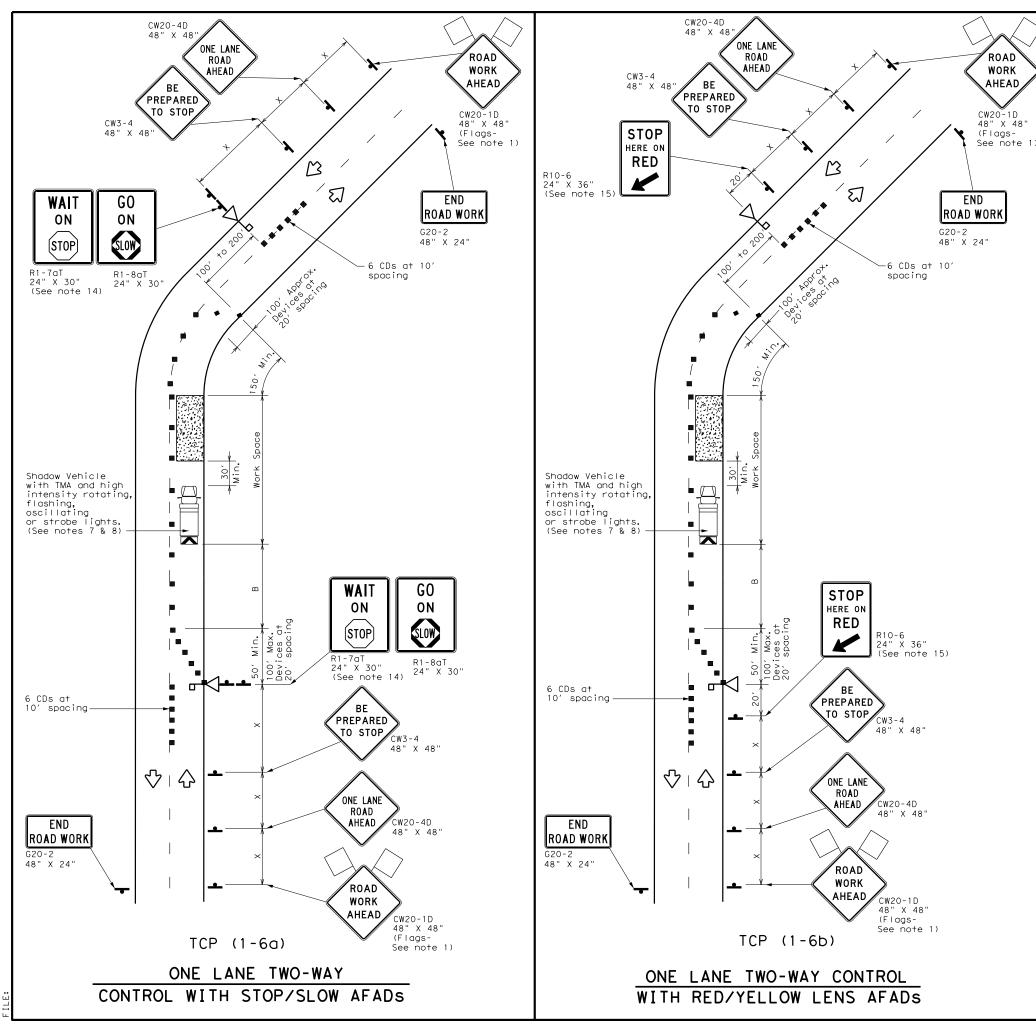


TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP (1-4)-12

ℂTxDOT December 1985	DN: TX	тоот	CK: TXDOT	DW: T	XDOT	CK: TXDOT
REVISIONS	CONT	SECT	JOB		HIG	HWAY
2-94 2-12 8-95						
1-97	DIST		COUNTY			SHEET NO.
4-98						





	LEGEND								
	Type 3 Barricade		Channelizing Devices (CDs)						
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)						
	Automated Flagger Assistance Device (AFAD)	M	Portable Changeable Message Sign (PCMS)						
•	Sign	♡	Traffic Flow						
$\Diamond$	Flag	4	Flagger						

Posted Formula Speed		Minimum Desirable Taper Lengths **		Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	Stopping Sight Distance	
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"	
30	2	150′	165′	180′	30′	60′	120′	90′	2001
35	$L = \frac{WS^2}{60}$	205′	2251	2451	35′	70′	160′	120′	250′
40	80	265′	295′	320′	40′	80′	240′	155′	305′
45		450′	495′	540′	45′	90′	320′	195′	360′
50		500′	550′	600′	50′	100′	400′	240′	425′
55	L=WS	550′	605′	660′	55′	110′	500′	295′	495′
60	L 113	600′	660′	720′	60′	120′	600′	350′	570′
65		650′	715′	780′	65′	130′	700′	410′	645′
70		700′	770′	840′	70′	140′	800′	475′	730′
75		750′	825′	900′	75′	150′	900′	540′	820′

\* Conventional Roads Only

\*\* Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
	1	1					

## GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED.
- 2. AFADs shall only be used in situations where there is one lane of approaching traffic in the direction to be controlled.
- 3. Adequate stopping sight distance must be provided to each AFAD location for approaching traffic. (See table above).
- 4. Each AFAD shall be operated by a qualified/certified flagger. Flaggers operating AFADs shall not leave them unattended while they are in use.
- 5. One flagger may operate two AFADs only when the flagger has an unobstructed view of both AFADs and of the approaching traffic in both directions.
- 6. When pilot cars are used, a flagger controlling traffic shall be located on each approach. AFADs shall not be operated by the pilot car operator.
- 7. All AFADs shall be equipped with gate arms with an orange or fluorescent red-orange flag attached to the end of the gate arm. The flag shall be a minimum of 16" square.
- 8. 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. 9. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to
- those shown in order to protect wider work spaces. 10. Flaggers should use two-way radios or other methods of communication to control traffic.
- 11. Length of work space should be based on the ability of flaggers to communicate.
- 12. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the AFAD.
- 13. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer. 14. The R1-7aT "WAIT ON STOP" sign and the R1-8aT "GO ON SLOW" sign shall
- be installed at the AFAD location on separate supports or they may be fabricated as one 48" x 30" sign. They shall not obscure the face of the STOP/SLOW AFAD. 15. The R10-6 "STOP HERE ON RED" arrow sign shall be offset so as not to obscure
- the lenses of the AFAD.

For construction or work, specific project requirements for shadow vehicles can be found in the projec GENERAL NOTES for Item 502, Barricades, Śigns and Traffic Handling.



TRAFFIC CONTROL PLAN AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS) TCP (1-6)-12

© TxDOT February 2012 DN: TXDOT CK: TXDOT DW: TXDOT CK: TXDO CONT SECT JOB

## **Velasquez, Courtney**

From: Rish, Morgan L < Morgan.L.Rish@windstream.com>

Sent: Tuesday, October 30, 2018 5:05 PM

**To:** Velasquez, Courtney

**Cc:** Eglinton, Sean; Peterson, Jillian; Ramirez, Jose; Slawinski, Stacy

**Subject:** RE: FBC Permit 2018-23633

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Courtney!

I spoke with our engineer and he says that we will comply with the 5' requirement. Please let me know if you need anything else.

Thank you,

## Morgan Rish

## Analyst I - Engineering Support | Windstream

11101 Anderson Drive, Suite 100 | Little Rock, AR 72212 Morgan.L.Rish@windstream.com | windstreambusiness.com o: 501-748-4751 | f: 330-425-0653

# Evolve your WANosaurus Make downtime extinct with Windstream SD-WAN Concierge™

From: Velasquez, Courtney < Courtney. Velasquez@fortbendcountytx.gov>

Sent: Thursday, October 25, 2018 4:45 PM

To: Rish, Morgan L < Morgan.L.Rish@windstream.com>

**Cc:** Eglinton, Sean <Sean.Eglinton@fortbendcountytx.gov>; Peterson, Jillian <Jillian.Peterson@fortbendcountytx.gov>; Ramirez, Jose <Jose.Ramirez@fortbendcountytx.gov>; Slawinski, Stacy <Stacy.Slawinski@fortbendcountytx.gov>

Subject: FBC Permit 2018-23633

Good Afternoon, our Mobility Engineer has request some changes before we can process this permit. Please see the comments below in yellow.

The design of Madden Road is underway, however we do not have drawings completed yet. Therefore, to avoid potential conflicts with the Madden Road improvements, the proposed Windstream improvements must be installed a minimum of 5-feet below the existing flowline of the ditches, from ROW to ROW.

If you can comply with this request please respond to this email and we will be able to process this permit.

\*Updated platting fees will go into effect October 3<sup>rd</sup>, 2018

## \*County Clerk plat recordation fees have changed and will go into effect **November 1<sup>st</sup>, 2018**

Courtney Velasquez Clerk III Fort Bend County Engineering

301 Jackson St., Suite 401 | Richmond, TX 77469 Email: Courtney. Velasquez@fortbendcountytx.gov

Phone: 281-633-7516