



**REVIEW BY FORT BEND COUNTY  
COMMISSIONERS COURT**

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

- ☒ Right of Way Permit  
☐ Commercial Driveway Permit

Permit No: 2017-12476

**Applicant:** PS Light Wave, Inc.

**Job Location Site:** Mason Street, Sugar Land, TX 77478

**Bond No.**                      **Date of Bond:** 12/13/2016 **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 4th day of April, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, 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**

By: Charles O. Ay  
County Engineer

N/A

By: \_\_\_\_\_  
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded 4-06-17 Comm. Court No. 12L

Clerk of Commissioners Court

By: Ronda Wilho  
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: 2017-12476

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:**

- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | a. Name of road, street, and/or drainage ditch affected. |
| <input checked="" type="checkbox"/> | b. Vicinity map showing course of directions             |
| <input checked="" type="checkbox"/> | c. Plans and specifications                              |

**(2) BOND:**

- |                                     |  |   |                     |
|-------------------------------------|--|---|---------------------|
| <input type="checkbox"/>            | County Attorney, approval when applicable. |   |                     |
| <input checked="" type="checkbox"/> | Perpetual bond currently posted.           | Bond No: <span style="background-color: black; color: black;">[REDACTED]</span> | Amount: \$50,000.00 |
| <input type="checkbox"/>            | Performance bond submitted.                | Bond No: _____  | Amount: _____       |
| <input type="checkbox"/>            | Cashier's Check                            | Check No: _____   | Amount: _____       |

**(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):**

\_\_\_\_\_  
Drainage District Approval

\_\_\_\_\_  
Date

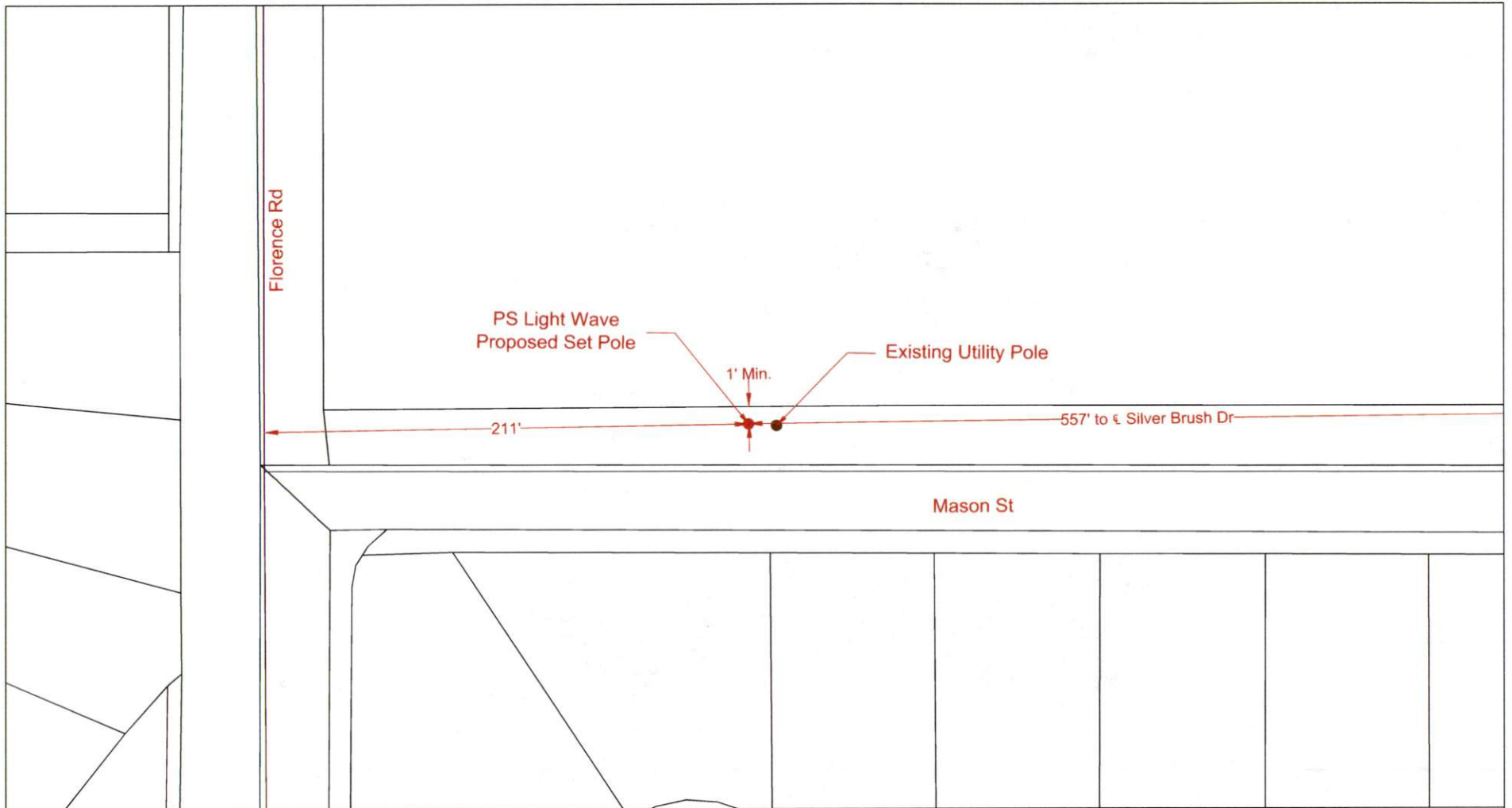
**We have reviewed this project and agree it meets minimum requirements.**

*Charles O. Ay*

\_\_\_\_\_  
Permit Administrator

*3/28/17*

\_\_\_\_\_  
Date



<div>LEGEND</div> <div><div><div><div>UG</div><div>3(1") HDPE W/ F.O. CABLE</div></div><div><div>UG</div><div>3(1.25") HDPE W/ F.O. CABLE</div></div><div><div>UG</div><div>1(2") HDPE W/ F.O. CABLE</div></div><div><div>UG</div><div>1(4") HDPE W/ 3(1.25")HDPE</div></div><div><div></div><div>FLEX INNERDUCT</div></div><div><div>AIR</div><div>AERIAL FIBER OPTIC CABLE</div></div><div><div>CAT5</div><div>CATS CABLE</div></div></div><div><div><div></div><div>PROPOSED CONDUIT</div></div><div><div></div><div>EXISTING CONDUIT</div></div><div><div>EMT</div><div>1.25" EMT</div></div><div><div>R/W</div><div>RIGHT-OF-WAY</div></div><div><div>EOP</div><div>EDGE-OF-PAVEMENT</div></div><div><div></div><div>FENCE</div></div><div><div></div><div>RACK LOCATION</div></div></div><div><div><div></div><div>PSLW SET POLE</div></div><div><div></div><div>EXISTING SET POLE</div></div><div><div></div><div>EXISTING UTILITY POLE</div></div><div><div><input checked="" type="checkbox"/></div><div>PROPOSED PSLW VAULT (24"x36"x24")</div></div><div><div><input checked="" type="checkbox"/></div><div>EXISTING VAULT</div></div><div><div><input checked="" type="checkbox"/></div><div>PULLBOX</div></div><div><div><input checked="" type="checkbox"/></div><div>MDF LOCATION</div></div></div></div>		<div><div><div><div></div><div></div></div><div></div></div><div><div><div>PSLIGHTWAVE</div><div>PROPRIETARY INFORMATION - PROPERTY OF PSLIGHTWAVE</div></div><div><div>REVISION#1: Rev#1</div><div>DATE: Rev#1 Date</div></div><div><div>REVISION#2: Rev#2</div><div>DATE: Rev#2 Date</div></div><div><div>REVISION#3: Rev#3</div><div>DATE: Rev#3 Date</div></div><div><div>REVISION#4: Rev#4</div><div>DATE: Rev#4 Date</div></div></div><div><div>SCALE: 1"=40'</div><div>PAGE: 1</div><div>OF: 3</div></div></div>	<div><div><div>CUSTOMER ID: JOB# 0616-842</div><div>CUSTOMER: Notice Of Proposed Utility Installation</div><div>ADDRESS: Mason St</div><div><div>CITY/ZIP: Sugar Land, TX 77478</div><div>COUNTY: Fort Bend</div></div><div><div>TENANTS:</div><div># OF FLOORS:</div><div>WO#: 84785</div><div>JOB#: 0616-842</div></div><div><div>APPROVED BY:</div><div>DATE:</div></div></div><div><div>KEY MAP: 568 B</div><div>DRAWN BY: PJE</div><div>DATE: 03/03/17</div></div></div>
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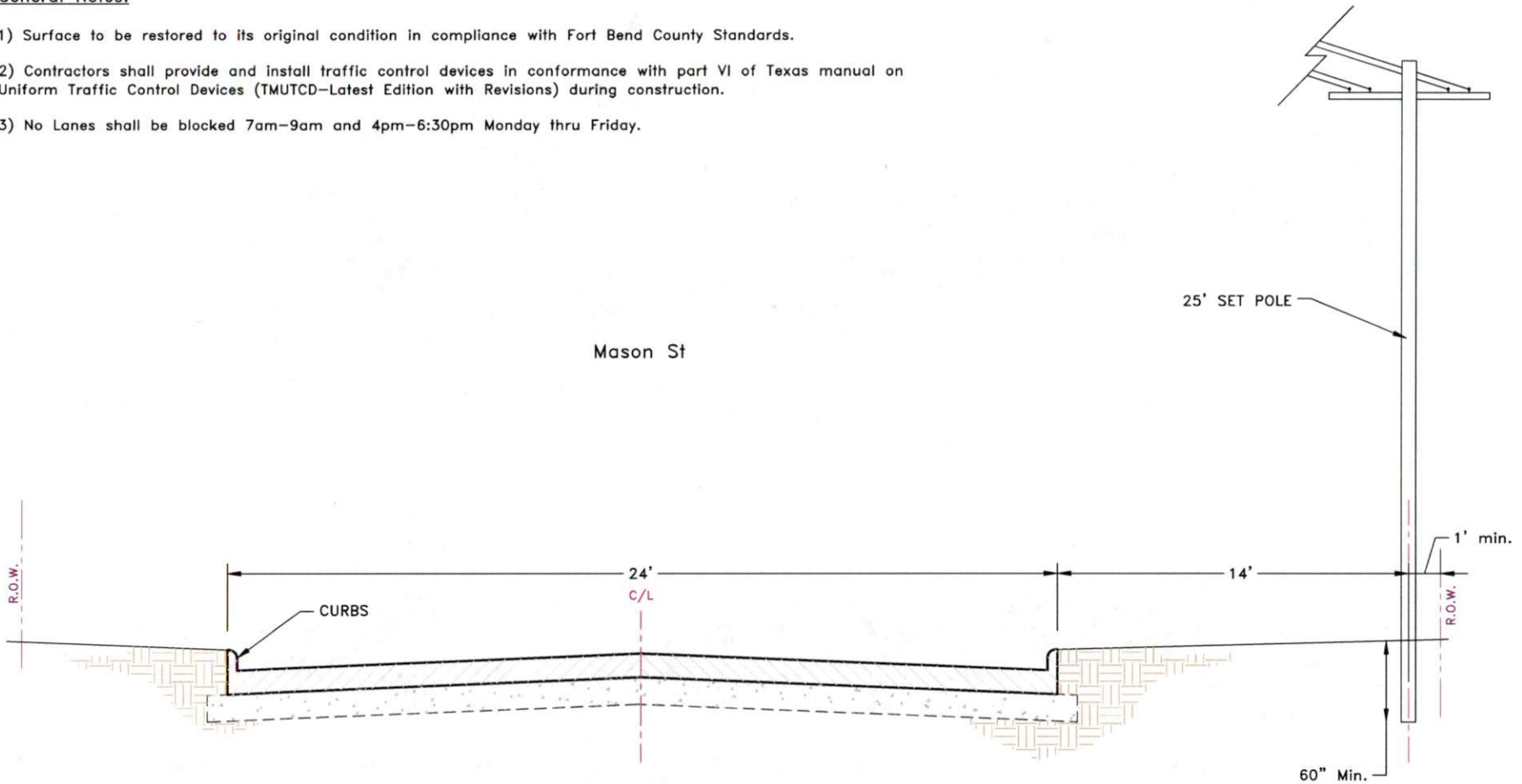




<p><b>LEGEND</b></p> <p> <span style="color: red;">—</span> UG 3(1") HDPE W/ F.O. CABLE  <span style="color: red;">—</span> UG 3(1.25") HDPE W/ F.O. CABLE  <span style="color: green;">—</span> UG 1(2") HDPE W/ F.O. CABLE  <span style="color: blue;">—</span> UG 1(4") HDPE W/ 3(1.25")HDPE  <span style="color: orange;">—</span> FLEX INNERDUCT  <span style="color: blue;">—</span> AIR AERIAL FIBER OPTIC CABLE  <span style="color: blue;">—</span> CAT5 CAT5 CABLE </p>		<p> <span style="color: blue;">—</span> PROPOSED CONDUIT  <span style="color: red;">- - -</span> EXISTING CONDUIT  <span style="color: purple;">—</span> EMT 1.25" EMT  <span style="color: black;">—</span> R/W RIGHT-OF-WAY  <span style="color: black;">—</span> EOP EDGE-OF-PAVEMENT  <span style="color: black;">—</span> FENCE  <span style="color: black;">—</span> RACK LOCATION </p>		<p> <span style="color: red;">●</span> PSLW SET POLE  <span style="color: purple;">●</span> EXISTING SET POLE  <span style="color: black;">●</span> EXISTING UTILITY POLE  <span style="color: blue;">■</span> PROPOSED PSLW VAULT (24"x36"x24")  <span style="color: blue;">■</span> EXISTING VAULT  <span style="color: green;">■</span> PULLBOX  <span style="color: red;">★</span> MDF LOCATION </p>		<p><b>SCALE:</b> 1"=40'</p> <p><b>PAGE:</b> 2</p> <p><b>OF:</b> 3</p>		<p><b>REVISION#1:</b> Rev#1 <b>DATE:</b> Rev#1 Date</p> <p><b>REVISION#2:</b> Rev#2 <b>DATE:</b> Rev#2 Date</p> <p><b>REVISION#3:</b> Rev#3 <b>DATE:</b> Rev#3 Date</p> <p><b>REVISION#4:</b> Rev#4 <b>DATE:</b> Rev#4 Date</p>		<p><b>CUSTOMER ID:</b> JOB# 0616-842</p> <p><b>CUSTOMER:</b> Notice Of Proposed Utility Installation</p> <p><b>ADDRESS:</b> Mason St</p> <p><b>CITY/ZIP:</b> Sugar Land, TX 77478 <b>COUNTY:</b> Fort Bend</p> <p><b>TENANTS:</b> <b># OF FLOORS:</b> <b>DWG#:</b> <b>KEY MAP:</b> 568 B</p> <p><b>WO#:</b> 84785 <b>JOB#:</b> 0616-842 <b>DRAWN BY:</b> PJE <b>DATE:</b> 03/03/17</p> <p><b>APPROVED BY:</b> <b>DATE:</b></p>	
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# **General Notes:**

- 1) Surface to be restored to its original condition in compliance with Fort Bend County Standards.
- 2) Contractors 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.
- 3) No Lanes shall be blocked 7am–9am and 4pm–6:30pm Monday thru Friday.

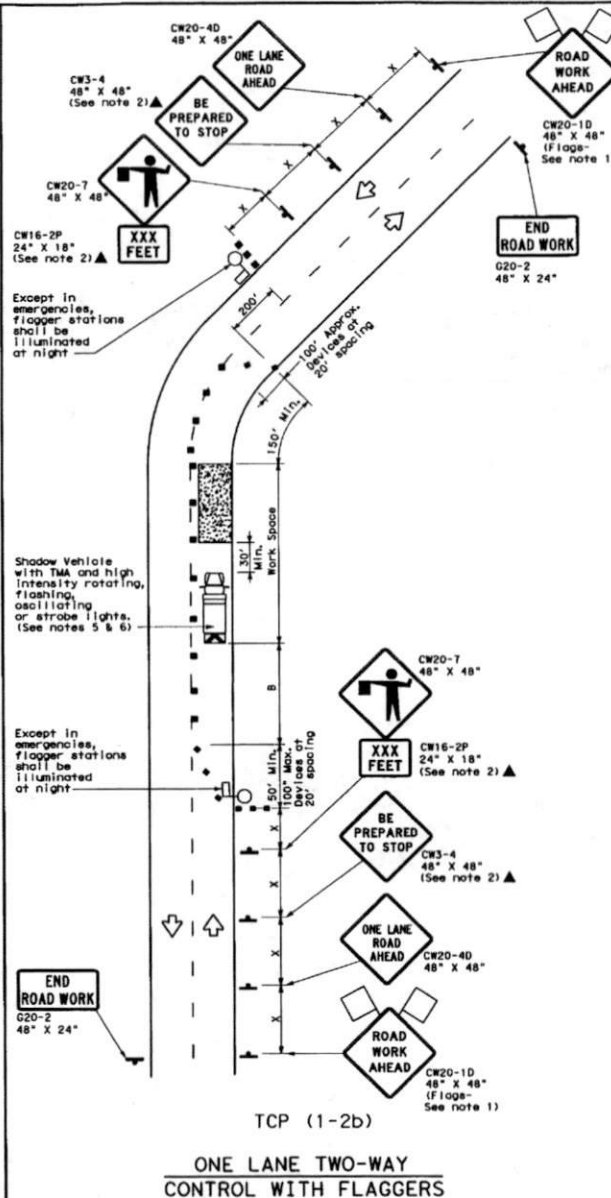
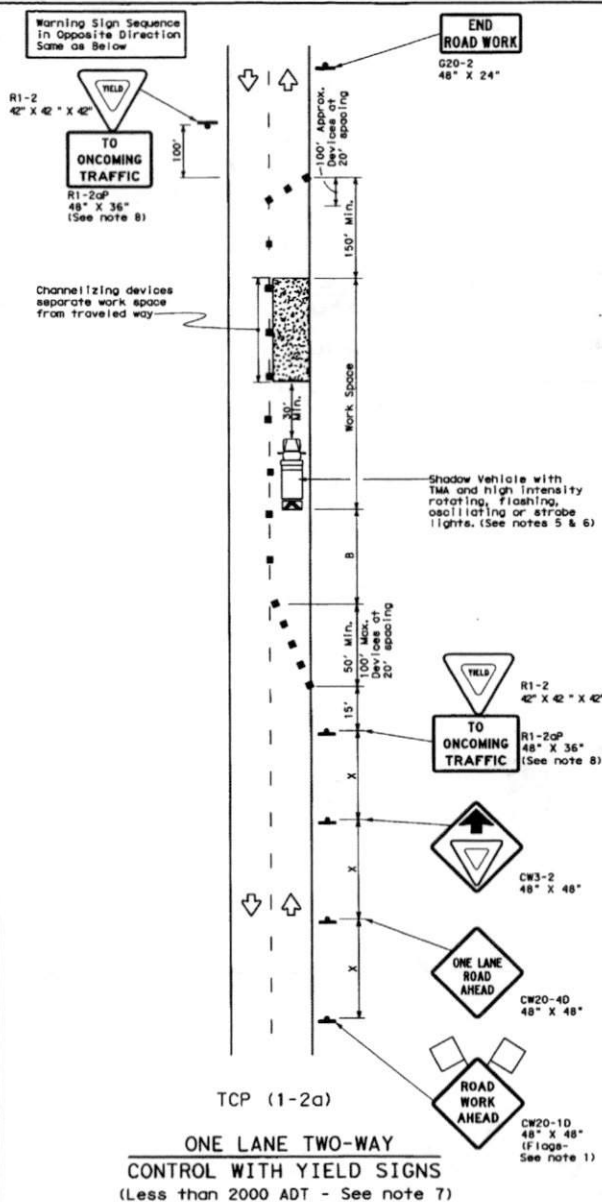


<p>UG 3(1") PVC W/ F.O. CABLE</p> <p>UG 3(1.25") PVC W/ F.O. CABLE</p> <p>UG 1(2") PVC W/ F.O. CABLE</p> <p>UG 1(4") HDPE W/ 3(1.25")PVC</p> <p>FLEX INNERDUCT</p> <p>AIR AERIAL FIBER OPTIC CABLE</p> <p>CAT5 CAT5 CABLE</p>	<p><b>LEGEND</b></p> <p>PROPOSED CONDUIT</p> <p>EXISTING CONDUIT</p> <p>EMT 1.25" EMT</p> <p>R/W RIGHT-OF-WAY</p> <p>EOP EDGE-OF-PAVEMENT</p> <p>FENCE</p> <p>RACK LOCATION</p>	<p>PSLW SET POLE</p> <p>EXISTING SET POLE</p> <p>EXISTING UTILITY POLE</p> <p>PROPOSED PSLW VAULT (24"x36"x24")</p> <p>EXISTING VAULT</p> <p>PULLBOX</p> <p>MDF LOCATION</p>	<p>SCALE: N.T.S</p> <p>PAGE: 3</p> <p>OF: 3</p>	<p><b>LIGHTWAVE</b></p> <p>PROPRIETARY INFORMATION - PROPERTY OF PSLIGHTWAVE</p> <p>REVISION#1: Rev#1 DATE: Rev#1 Date</p> <p>REVISION#2: Rev#2 DATE: Rev#2 Date</p> <p>REVISION#3: Rev#3 DATE: Rev#3 Date</p> <p>REVISION#4: Rev#4 DATE: Rev#4 Date</p>	<p>Job# 0616-842</p> <p>Description: Notice Of Proposed Utility Installation</p> <p>ADDRESS: Mason St</p> <p>CITY/ZIP: Sugar Land, TX 77478</p> <p>COUNTY: Fort Bend</p> <p>TENANTS: # OF FLOORS: DWG#: KEY MAP: 568 B</p> <p>WO#: 84785 JOB#: 0616-842 DRAWN BY: P.E DATE: 03/03/17</p> <p>APPROVED BY: DATE:</p>
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DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the consequences of the use of this standard to other forms or for incorrect results or damage resulting from its use.

DATE: FILE:



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 K	Formula	Minimum Desirable Taper Lengths M	Suggested Maximum Spacing of Channelizing Devices	Minimum Sign Spacing "S"	Suggested Buffer Spacing "B"	Stopping Sight Distance
		10' 11' 12'	On a Taper On a Tangent	Distance		
30	L = WS <sup>2</sup>	150' 165' 180'	30' 60'	120'	90'	200'
35		205' 225' 245'	35' 70'	160'	120'	250'
40		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		550' 605' 660'	55' 110'	500'	295'	495'
60		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 Offsets (ft) S = Posted Speed (MPH)

TYPICAL USAGE			
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY

#### GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
  - 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.
  - 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.
  - 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.
  - 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.
- TCP (1-2a)**
- 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.
  - R1-2 "YIELD" sign with R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.
- TCP (1-2b)**
- 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 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).
  - 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/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 be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

**Texas Department of Transportation**  
Traffic Operations Division

### TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL

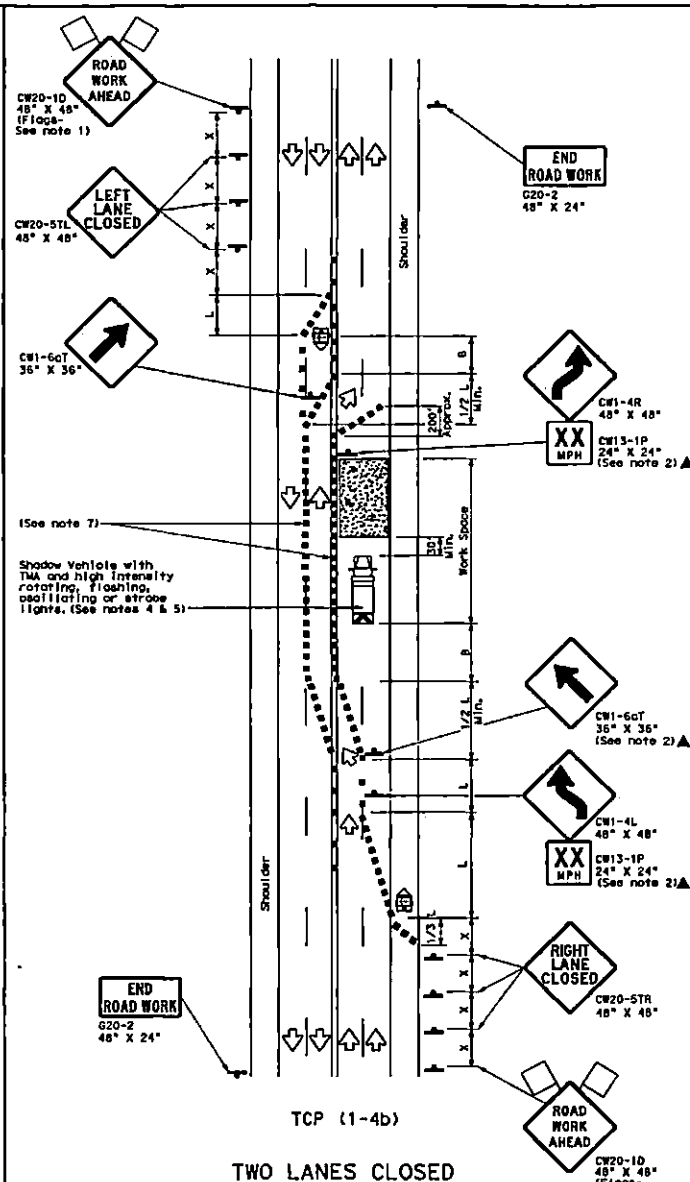
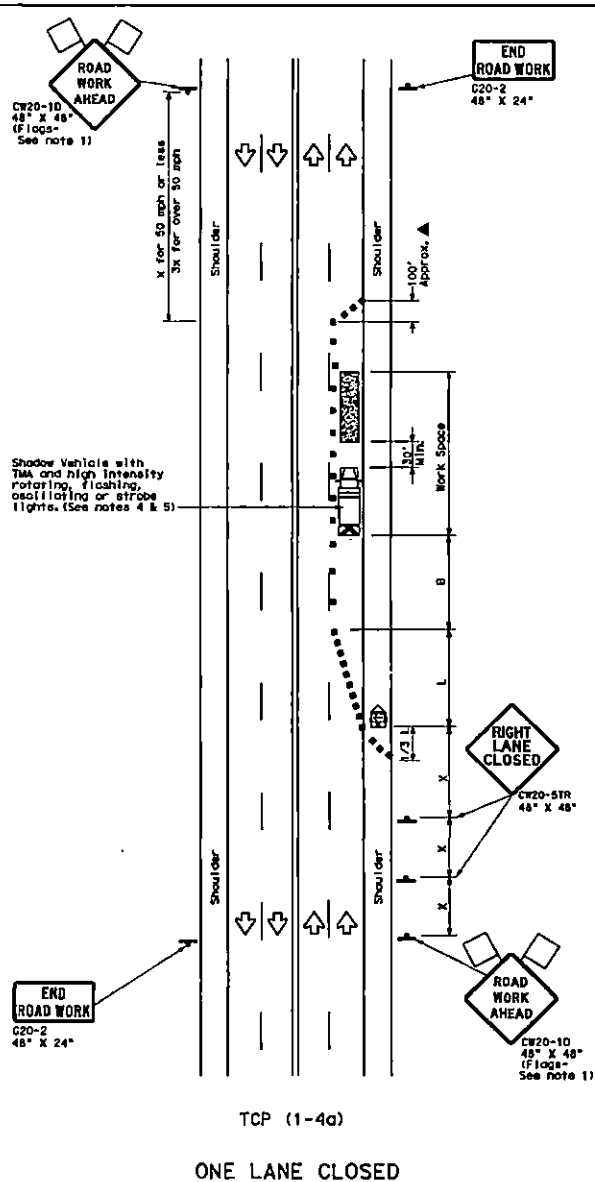
TCP(1-2)-12

REV	DATE	BY	CHK	APP	DATE	BY	CHK	APP
1	1-12							
2	2-94							
3	1-97							
4	4-98							

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DATE: 1-12-11

FILE:



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

Posted Speed #	Formula	Minimum Desirable Taper Lengths ft		Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing ft	Suggested Longitudinal Buffer Space ft
		10' Offset	11' Offset	On a Taper	On a Tangent	x Distance	
		10'	11'	On a Taper	On a Tangent		
30	L = WS <sup>2</sup> / 60	150'	165'	30'	60'	120'	90'
35		205'	225'	35'	70'	160'	120'
40		265'	295'	40'	80'	240'	155'
45	L = WS	450'	495'	45'	90'	320'	195'
50		500'	550'	50'	100'	400'	240'
55		550'	605'	55'	110'	500'	295'
60	L = WS	600'	660'	60'	120'	600'	350'
65		650'	715'	65'	130'	700'	410'
70		700'	770'	70'	140'	800'	475'
75		750'	825'	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	LONG TERM STATIONARY
	✓	✓	

#### GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
  - 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.
  - The CW20-10 "ROAD WORK AHEAD" sign may be repeated if the visibility of the work zone is less than 1500 feet.
  - 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 other work spaces.
- TCP (1-4a)**
- 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.
- TCP (1-4b)**
- 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.

Texas Department of Transportation  
 Traffic Operations Division

## TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP (1-4)-12

REV	DATE	BY	CHKD	APP'D	REASON
1	1-12				
2	1-12				
3	1-12				
4	1-12				