

**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: 2017-11522

**Applicant:** PS Light Wave, Inc

**Job Location Site:** Beechnut Street, Richmond, TX 77407

**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 7th day of February, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Patterson, 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.

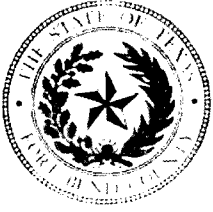
By: Charles O. Ay  
for County Engineer

Date Recorded 2-14-17 Comm. Court No. 15Z

Clerk of Commissioners Court

By: N/A  
Drainage District Engineer/Manager

By: Sandra 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@fortbendcountytexas.gov

- Right of Way Permit  
 Commercial Driveway Permit

Permit No: 2017-11522

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: [REDACTED]      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

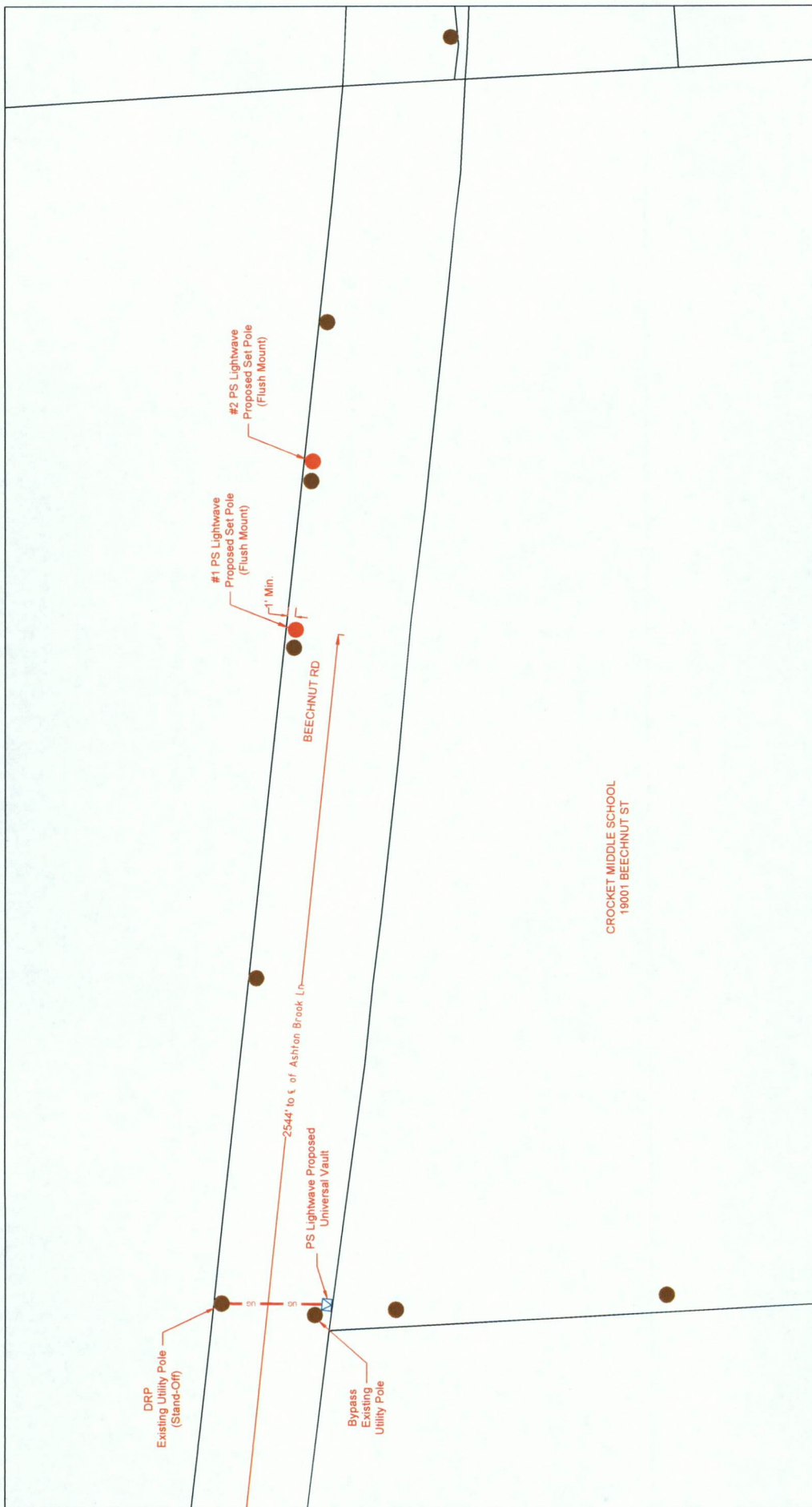
**We have reviewed this project and agree it meets minimum requirements.**

*Charly O. AJ*

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

*1/31/17*

\_\_\_\_\_  
Date



CROCKETT MIDDLE SCHOOL  
19001 BEECHNUT ST

**LEGEND**

UG	3(1") HDPE W/ FIBER OPTIC CABLE	PROPOSED CONDUIT	PSLW SET POLE
UG	3(1.25") HDPE W/ FIBER OPTIC CABLE	EXISTING CONDUIT	PSLW EXISTING POLE
UG	1(2") HDPE W/ FIBER OPTIC CABLE	EMT	EXISTING UTILITY POLE
UG	1(4") HDPE W/ 3(1.25")HDPE	R/W	PROPOSED PSLW VAULT (24"x36"x24")
AIR	FLEX INNERDUCT (INSIDE)	EDGE-OF-PAVEMENT	EXISTING VAULT
CAT5	AERIAL FIBER OPTIC CABLE	FENCE	PULLBOX
	CATS CABLE	RACK LOCATION	MDF LOCATION

**Lightwave**  
PROPRIETARY INFORMATION - PROPERTY OF PSLIGHTWAVE

REVISION#1: Rev#1	DATE: Rev#1 Date	TENANTS:	WOF#	JOB#	DATE
REVISION#2: Rev#2	DATE: Rev#2 Date	WOF#	85164	0618-672 P.W	12/20/16
REVISION#3: Rev#3	DATE: Rev#3 Date	APPROVED BY:			
REVISION#4: Rev#4	DATE: Rev#4 Date				

SCALE: 1"=80'

PAGE: 1 OF 8

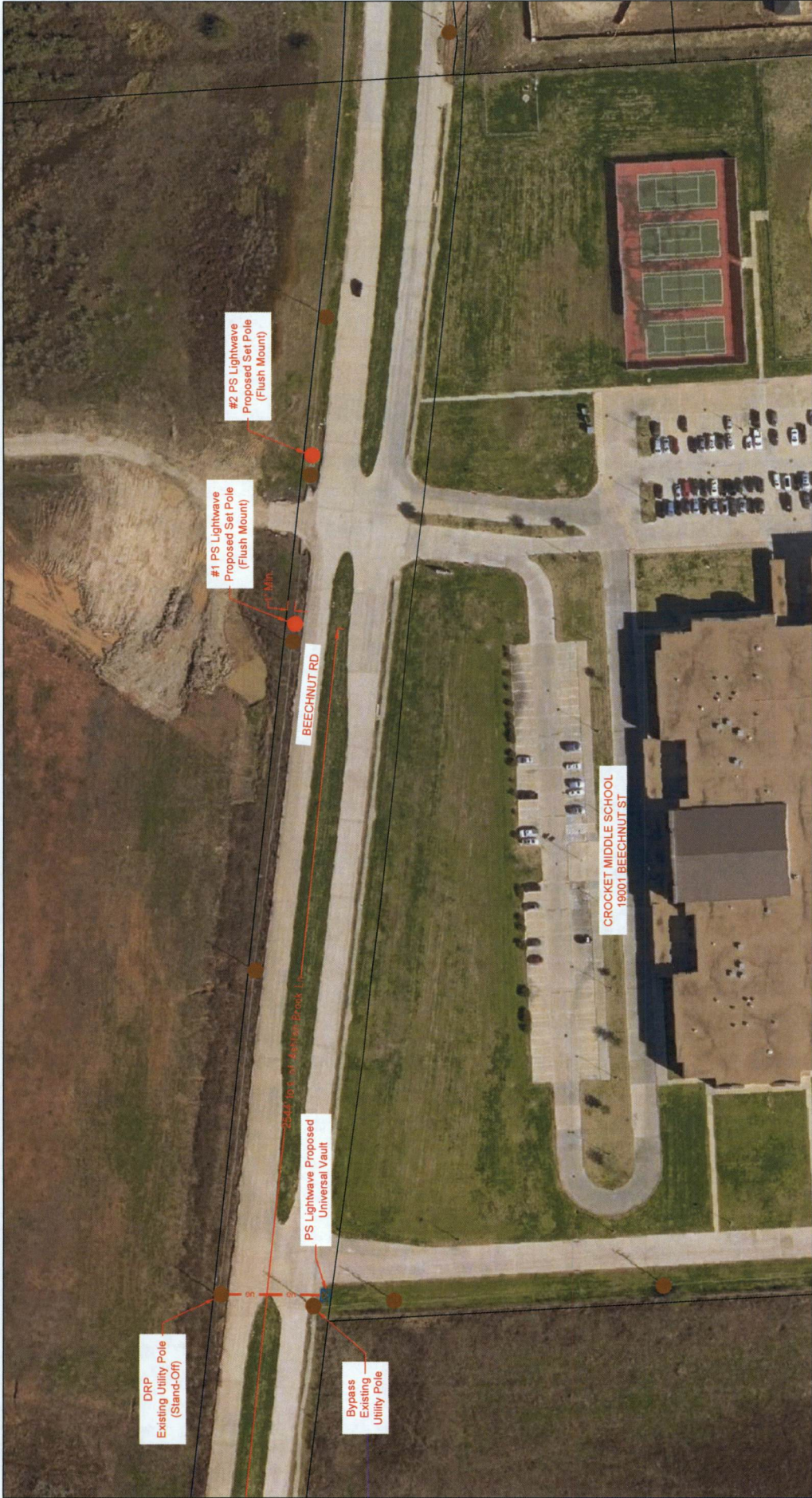
CUSTOMER ID: JOB# 0616-672

CITY/ZIP: Richmond, TX 77407

ADDRESS: Beechnut St

COUNTY: Fort Bend

APPROVED BY: DATE:



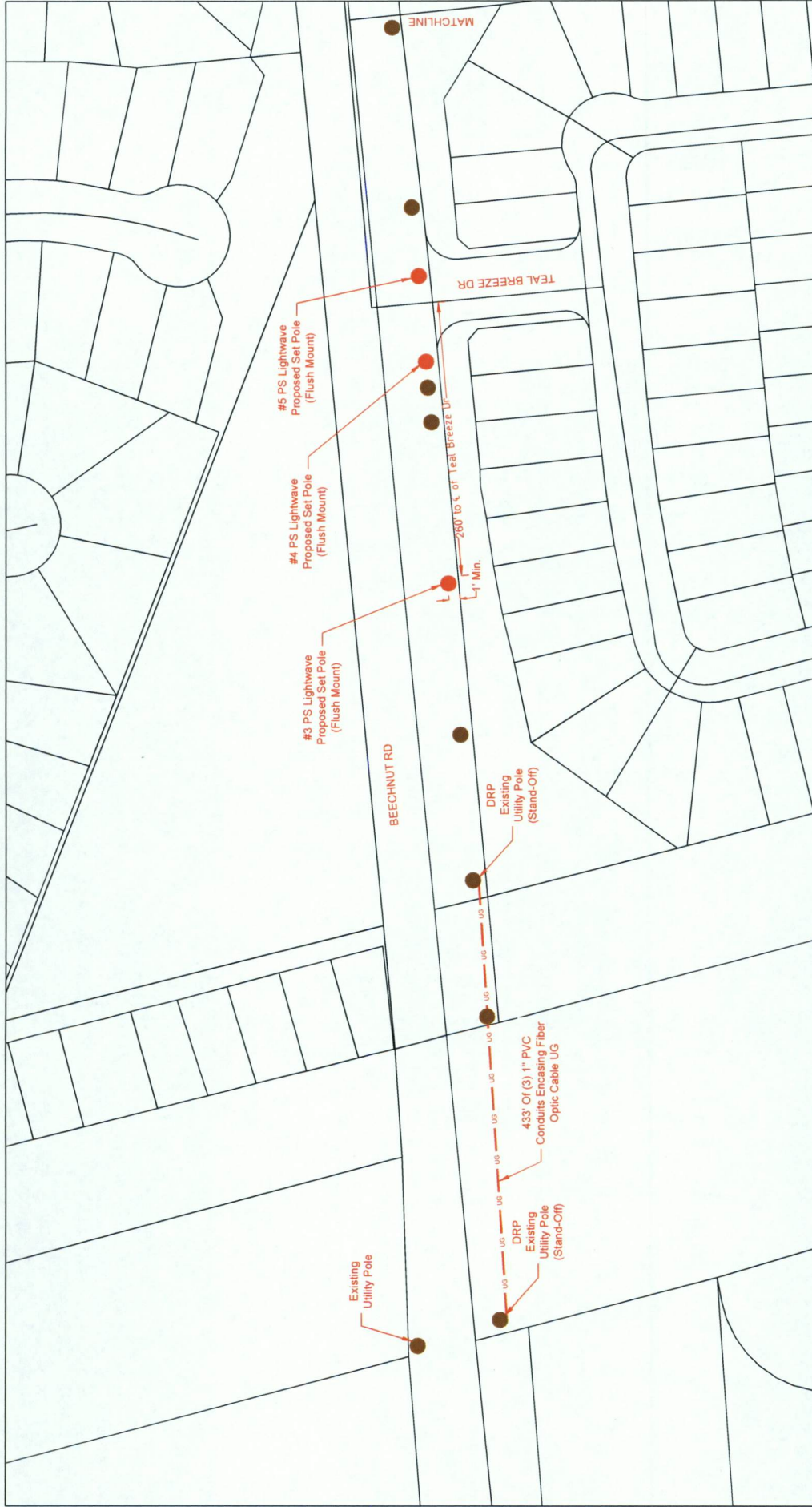
LEGEND	
UG	3(1") HDPE W/ FIBER OPTIC CABLE
UG	3(1.25") HDPE W/ FIBER OPTIC CABLE
UG	1(2") HDPE W/ FIBER OPTIC CABLE
UG	1(4") HDPE W/ 3(1.25") HDPE
AIR	FLEX INNERDUCT (INSIDE)
CATS	AERIAL FIBER OPTIC CABLE
CATS	CATS CABLE
---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	EMT
---	1.25" EMT
---	R/W
---	RIGHT-OF-WAY
---	EDGE-OF-PAVEMENT
---	FENCE
---	RACK LOCATION
●	PSLW SET POLE
●	PSLW EXISTING POLE
●	EXISTING UTILITY POLE
□	PROPOSED PSLW VAULT (24" x 36" x 24")
□	EXISTING VAULT
□	PULLBOX
★	MDF LOCATION

SCALE: 1"=90'	DATE: Ref1	DATE: Ref1	DATE: Ref1	DATE: Ref1
PAGE: 2	REVISION#2: Ref2	REVISION#3: Ref3	REVISION#4: Ref4	DATE: Ref2
OF: 8				DATE: Ref3

<b>LIGHTWAVE</b> PROPRIETARY INFORMATION - PROPERTY OF PSLIGHTWAVE	
CUSTOMER ID: <b>JOB# 0616-672</b>	COUNTY: Fort Bend
CUSTOMER: Notice of Proposed Utility Installation	ADDRESS: Beechnut St
CITY/ZIP: Richmond, TX 77407	# OF FLOORS:
TENANTS:	DWG#:
WOF: 85164	JOBF: 0616-672 P/W
APPROVED BY:	DRAWN BY: GC
DATE:	DATE: 12/20/16



**LEGEND**

- UG 3(1") HDPE W/ FIBER OPTIC CABLE
- UG 3(1.25") HDPE W/ FIBER OPTIC CABLE
- UG 1(2") HDPE W/ FIBER OPTIC CABLE
- UG 1(4") HDPE W/ 3(1.25") HDPE FLEX INNERDUCT (INSIDE)
- AIR AERIAL FIBER OPTIC CABLE
- CAT5 CAT5 CABLE
- PROPOSED CONDUIT
- EXISTING CONDUIT
- EMT 1.25" EMT
- R/W RIGHT-OF-WAY
- ED EDGE-OF-PAVEMENT
- FENCE
- RACK LOCATION

- PSLW SET POLE
- PSLW EXISTING POLE
- EXISTING UTILITY POLE
- PROPOSED PSLW VAULT (24"x36"x24")
- EXISTING VAULT
- PULLBOX
- MDF LOCATION

SCALE: 1"=90'

PAGE: 3 OF 8

**CUSTOMER ID:** JOB# 0616-672

**CUSTOMER:** Notice of Proposed Utility Installation

**ADDRESS:** Beechnut St

**CITY/ZIP:** Richmond, TX 77407

**COUNTY:** Fort Bend

**DATE:** Ref#1 Date

**DATE:** Ref#2 Date

**DATE:** Ref#3 Date

**DATE:** Ref#4 Date

**REVISION#1:** Ref#1

**REVISION#2:** Ref#2

**REVISION#3:** Ref#3

**REVISION#4:** Ref#4

**# OF FLOORS:** DWG#

**# OF FLOORS:** JOB# 0616-672 PLW

**WOF:** 85164

**DATE:** 12/20/16

**APPROVED BY:**



**LEGEND**

- UG 3(1") HDPE W/ FIBER OPTIC CABLE
- UG 3(1.25") HDPE W/ FIBER OPTIC CABLE
- UG 1(2") HDPE W/ FIBER OPTIC CABLE
- UG 1(4") HDPE W/ 3(1.25") HDPE
- AIR FLEX INNERDUCT (INSIDE)
- CATS AERIAL FIBER OPTIC CABLE
- CATS CATS CABLE
- PROPOSED CONDUIT
- EXISTING CONDUIT
- EMT 1.25" EMT
- R/W RIGHT-OF-WAY
- EOP EDGE-OF-PAVEMENT
- FENCE
- RACK LOCATION
- PROPOSED PSLW VAULT (24"x36"x24")
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE
- EXISTING VAULT
- PULLBOX
- MDF LOCATION

**PSLW SET POLE**

- PSLW EXISTING POLE
- EXISTING UTILITY POLE
- PROPOSED PSLW VAULT (24"x36"x24")
- EXISTING VAULT
- PULLBOX
- MDF LOCATION

SCALE: 1"=90'

PAGE: 4 OF 8

REVISION#1: Ref#1 DATE: Ref#1 Date

REVISION#2: Ref#2 DATE: Ref#2 Date

REVISION#3: Ref#3 DATE: Ref#3 Date

REVISION#4: Ref#4 DATE: Ref#4 Date

CUSTOMER ID: JOB# 0616-672

CUSTOMER: Notice of Proposed Utility Installation

ADDRESS: Beechnut St

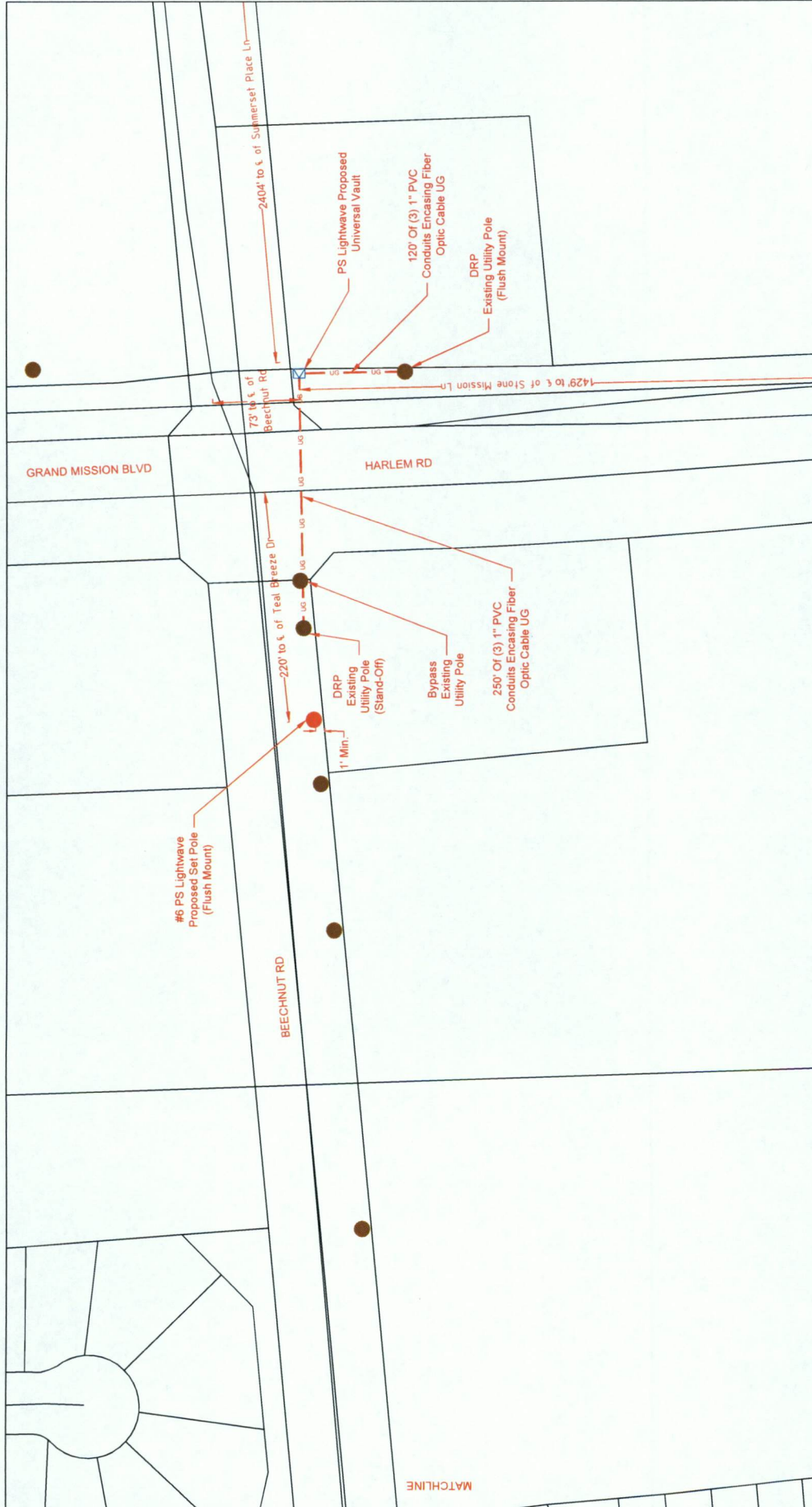
CITY/ZIP: Richmond, TX 77407

TENANTS: # OF FLOORS: DWG#

KEY MAP: 508 P.0

WOF: 85164 JOEF: 0616-672 P.W. DRAWN BY: GC DATE: 12/20/16

APPROVED BY: DATE:



**LEGEND**

UG	3(1") HDPE W/ FIBER OPTIC CABLE	PROPOSED CONDUIT	PSLW SET POLE
UG	3(1.25") HDPE W/ FIBER OPTIC CABLE	EXISTING CONDUIT	PSLW EXISTING POLE
UG	1(2") HDPE W/ FIBER OPTIC CABLE	EMT	EXISTING UTILITY POLE
UG	1(4") HDPE W/ 3(1.25") HDPE	R/W	PROPOSED PSLW VAULT (24"x36"x4")
AIR	FLEX INNERDUCT (INSIDE)	EDGE-OF-PAVEMENT	EXISTING VAULT
CAT5	AERIAL FIBER OPTIC CABLE	FENCE	PULLBOX
CAT5	CAT5 CABLE	RACK LOCATION	MDF LOCATION

**CUSTOMER ID:** JOB# 0616-672

**CUSTOMER:** Notice of Proposed Utility Installation

**ADDRESS:** Beechnut St

**CITY/ZIP:** Richmond, TX 77407

**COUNTY:** Fort Bend

**TENANTS:** # OF FLOORS: DWG#:

**WO#:** 85164

**JOB#:** 0616-672

**DATE:** 12/20/16

**APPROVED BY:** DATE:

SCALE: 1"=90'

PAGE: 5 OF 8



LEGEND	
UG	3(1") HDPE W/ FIBER OPTIC CABLE
UG	3(1.25") HDPE W/ FIBER OPTIC CABLE
UG	1(2") HDPE W/ FIBER OPTIC CABLE
UG	1(4") HDPE W/ 3(1.25") HDPE
---	FLEX INNERDUCT (INSIDE)
AIR	AERIAL FIBER OPTIC CABLE
CAT5	CAT5 CABLE
---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	EMT
---	1.25" EMT
---	R/W
---	RIGHT-OF-WAY
---	EDGE-OF-PAVEMENT
---	EOP
---	FENCE
---	RACK LOCATION
---	PULLBOX
---	EXISTING VAULT
---	PROPOSED PSLW VAULT (24"x36"x24")
---	EXISTING UTILITY POLE
---	EXISTING UTILITY POLE
---	PSLW EXISTING POLE
---	PSLW SET POLE
---	DRP
---	DRP EXISTING UTILITY POLE (Stand-Off)
---	DRP EXISTING UTILITY POLE (Flush Mount)
---	BYPASS EXISTING UTILITY POLE
---	250' OF (3) 1" PVC CONDUITS ENCASED FIBER OPTIC CABLE UG
---	120' OF (3) 1" PVC CONDUITS ENCASED FIBER OPTIC CABLE UG
---	PS LIGHTWAVE PROPOSED UNIVERSAL VAULT

**U R LIGHTWAVE**  
PROPRIETARY INFORMATION - PROPERTY OF PS LIGHTWAVE

SCALE: 1"=90'  
 PAGE: 6 OF: 8

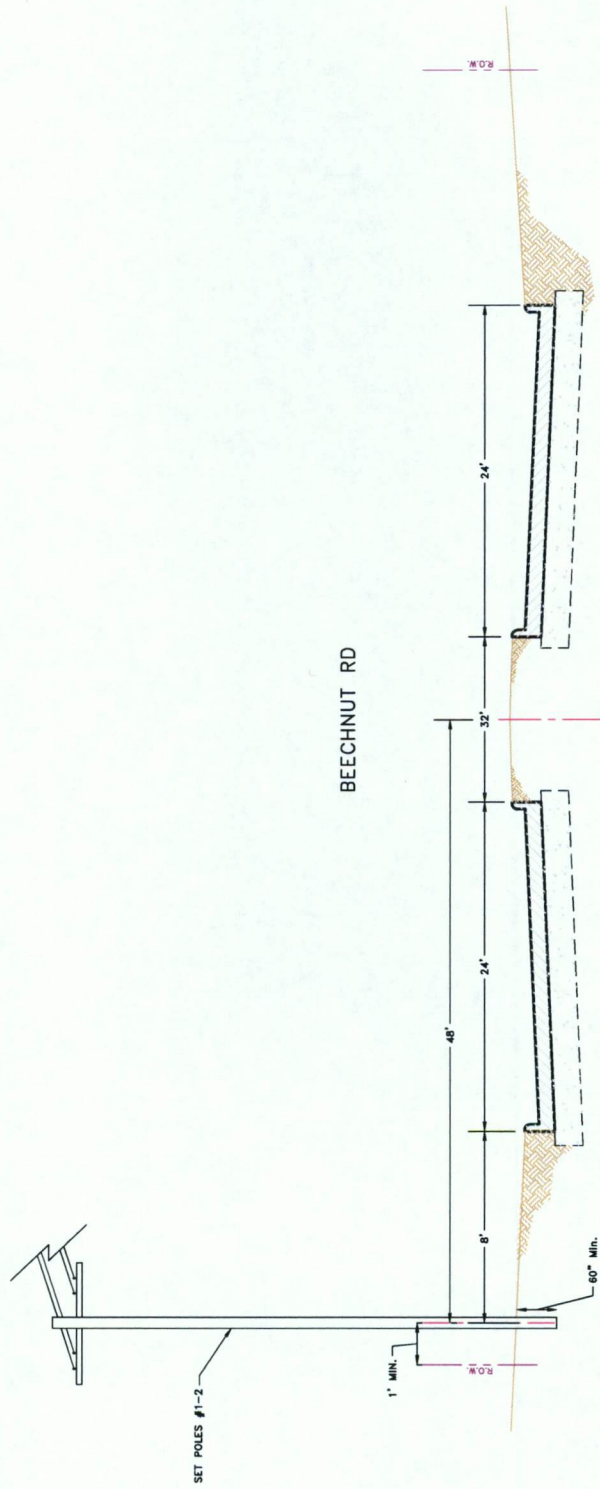
REVISION#1: Ref#1 DATE: Ref#1 Date  
 REVISION#2: Ref#2 DATE: Ref#2 Date  
 REVISION#3: Ref#3 DATE: Ref#3 Date  
 REVISION#4: Ref#4 DATE: Ref#4 Date

CUSTOMER ID: **JOB# 0616-672**  
 CUSTOMER: **Noice of Proposed Utility Installation**  
 ADDRESS: **Beechnut St**  
 CITY/ZIP: **Richmond, TX 77407**  
 COUNTY: **Fort Bend**  
 TENANTS: **# OF FLOORS: DWG#:**  
 WOF: **85164** JOE# **0616-672 PLW** DRAWN BY: **GC** DATE: **12/20/16**  
 APPROVED BY: DATE:

MATCHLINE

**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.



**Job#** 0616-672 PLW

Description: Notice Of Proposed Utility Installation

Address: Beechnut St

City/Zip: Richmond, TX 77407

Tenants: WOF 85164

Job# 0616-672

Country: Fort Bend

Key Map: 526 P.O.

Drawn By: GS

Date: 12/20/16

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

**Lightwave**

PROPRIETARY INFORMATION, PROPERTY OF PLIGHTWAVE

Revision 1: Ref#1 Date: \_\_\_\_\_

Revision 2: Ref#2 Date: \_\_\_\_\_

Revision 3: Ref#3 Date: \_\_\_\_\_

Revision 4: Ref#4 Date: \_\_\_\_\_

SCALE: N.I.S.

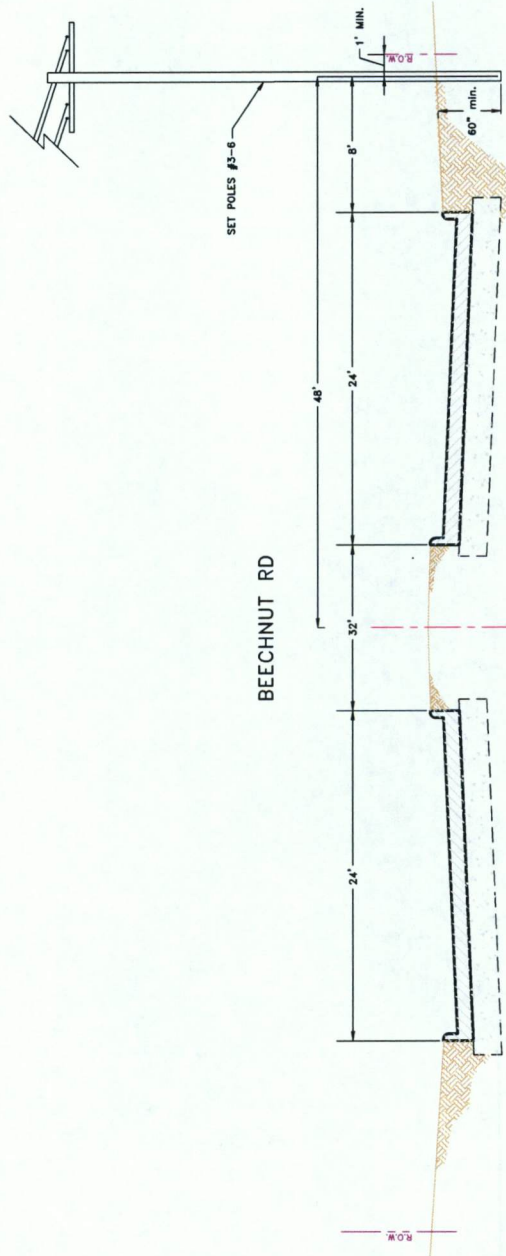
PAGE: 7 OF 8

**LEGEND**

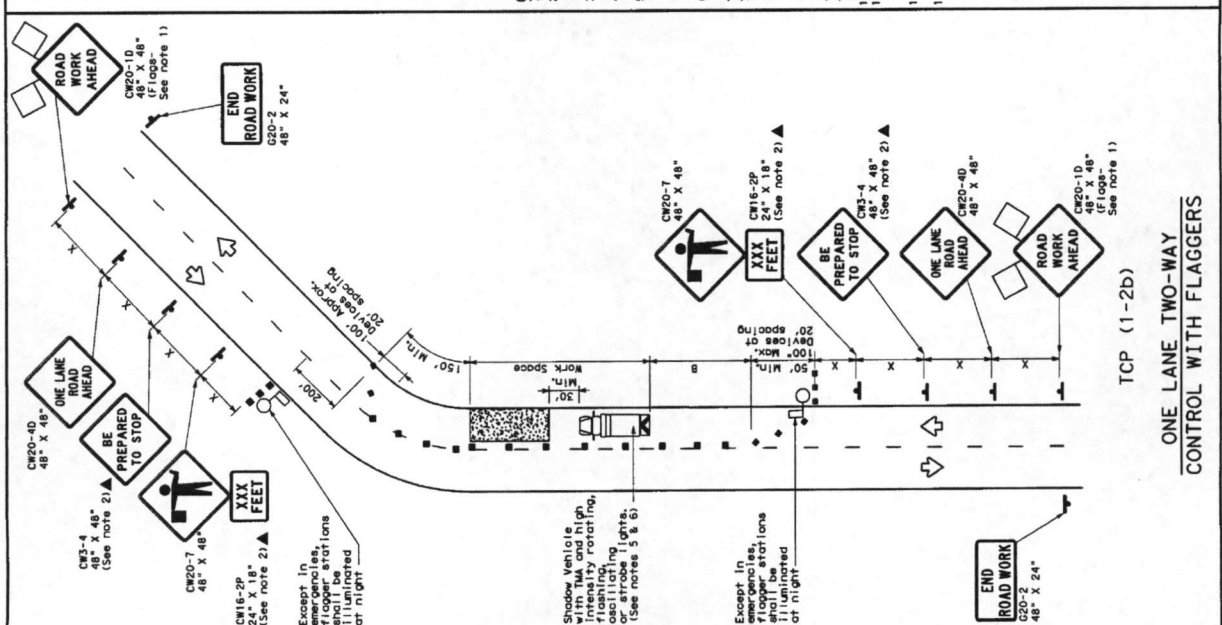
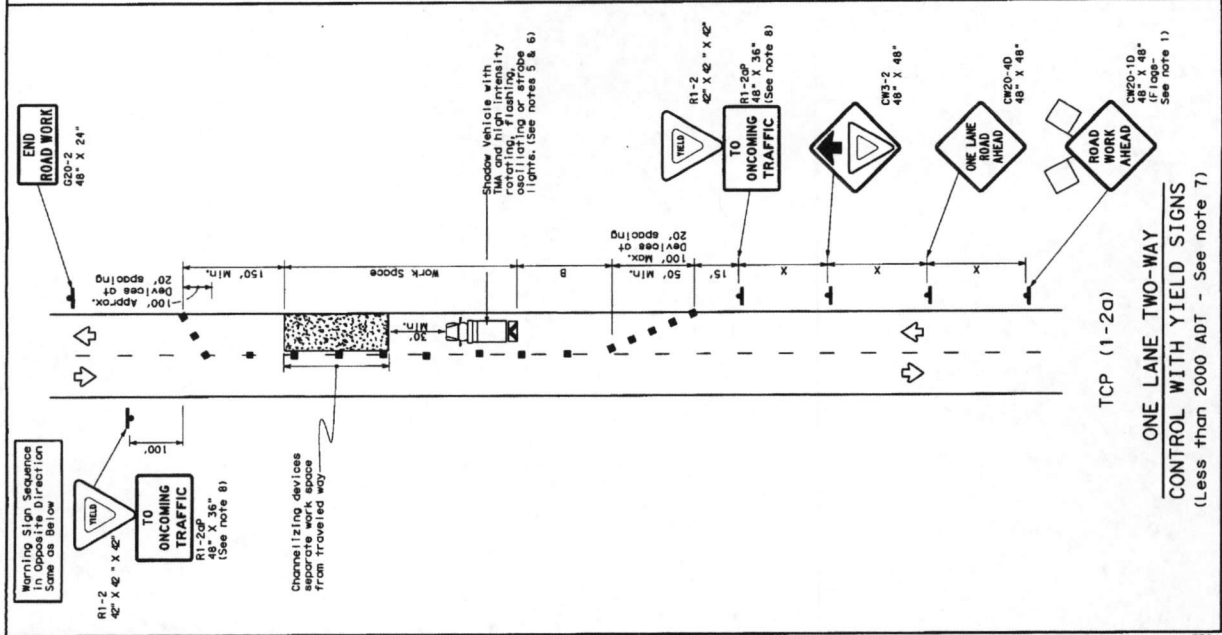
UG	3(1") HDPE W/ FIBER OPTIC CABLE	PROPOSED CONDUIT	PSLW SET POLE
UG	3(1.25") HDPE W/ FIBER OPTIC CABLE	EXISTING CONDUIT	PSLW EXISTING POLE
UG	1(2") HDPE W/ FIBER OPTIC CABLE	EMT 1.25" EMT	EXISTING UTILITY POLE
UG	1(4") HDPE W/ 3(1.25")HDPE	R/W	PROPOSED PSLW VAULT (24"x36"x24")
AIR	FLEX INNERDUCT (INSIDE)	EDGE-OF-PAVEMENT	EXISTING VAULT
CAT5	AERIAL FIBER OPTIC CABLE	FENCE	PULLBOX
CAT5	CAT5 CABLE	RACK LOCATION	MDF LOCATION

**General Notes:**

- 1) Surface to be restored to its original condition in compliance with Fort Bend 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.



		<b>Job # 0316-445 PLW</b> Description: Notice Of Proposed Utility Installation ADDRESS: Dowdell Rd CITY/ZIP: Tomball, TX 77375 COUNTY: Harris	
SCALE: N.T.S. PAGE: 8 OF: 8	REVISION#1: Rev#1 REVISION#2: Rev#2 REVISION#3: Rev#3 REVISION#4: Rev#4	DATE: Rev#1 Date DATE: Rev#2 Date DATE: Rev#3 Date DATE: Rev#4 Date	# OF FLOORS: DWG#: JOB# 0316-445 DRAWN BY: P.E. APPROVED BY: P.E. DATE: 10/14/2016
<b>LEGEND</b> 3(1") HDPE W/ FIBER OPTIC CABLE 3(1.25") HDPE W/ FIBER OPTIC CABLE 1(2") HDPE W/ FIBER OPTIC CABLE 1(4") HDPE W/ 3(1.25")HDPE FLEX INNERDUCT (INSIDE) AERIAL FIBER OPTIC CABLE CAT5 CABLE PROPOSED CONDUIT EXISTING CONDUIT 1.25" EMT R/W EOP EDGE-OF-PAVEMENT FENCE RACK LOCATION	PSLW SET POLE PSLW EXISTING POLE EXISTING UTILITY POLE PROPOSED PSLW VAULT (24"x36"x24") EXISTING VAULT PULLBOX MDF LOCATION	[Symbol] PROPOSED CONDUIT [Symbol] EXISTING CONDUIT [Symbol] 1.25" EMT [Symbol] R/W [Symbol] EOP [Symbol] EDGE-OF-PAVEMENT [Symbol] FENCE [Symbol] RACK LOCATION	[Symbol] PSLW SET POLE [Symbol] PSLW EXISTING POLE [Symbol] EXISTING UTILITY POLE [Symbol] PROPOSED PSLW VAULT (24"x36"x24") [Symbol] EXISTING VAULT [Symbol] PULLBOX [Symbol] MDF LOCATION



**LEGEND**

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

Posted Speed *	Minimum Distance Between Signs	Suggested Maximum Spacing of Channelizing Devices	Suggested Maximum Spacing of Sign Posts	Suggested Minimum Spacing of Sign Posts
30	10'	11'	12'	On a Tangent
35	150'	185'	180'	60'
40	205'	225'	245'	35'
45	265'	295'	320'	40'
50	330'	375'	400'	45'
55	400'	465'	500'	50'
60	475'	560'	600'	55'
65	560'	660'	720'	60'
70	650'	770'	840'	70'
75	750'	895'	900'	75'
80	850'	1030'	1050'	80'
85	950'	1175'	1200'	85'
90	1050'	1325'	1350'	90'
95	1150'	1480'	1500'	95'
100	1250'	1640'	1650'	100'

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

**TYPICAL USAGE**

MOBILE	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
✓	✓	✓	✓

**GENERAL NOTES**

- Flag 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 stored elsewhere in the plans, or for routine maintenance.
- The C20-4 "BE PREPARED TO STOP" sign may be installed after the C20-40 "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- Sign spacing may be increased or an additional C20-10 "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or the flagger's shadow vehicle is increased to 100 feet.
- In the case of an area of crew exposure without adversely affecting the performance 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 used in place of the flagger or shadow vehicle.
- Additional Shadow Vehicles with TMA's may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

**TCP (1-20)**

- 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 100 feet.
- In the case of a project with inadequate sight distance, the following 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.
- Locations of work spaces 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).
- Flaggers should be trained when a pilot car is leading.
- 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 details for shadow vehicle or shadow vehicle can be found in the project GENERAL NOTES. 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

4-90	1-12	1-12	1-12	1-12	1-12
REV	REV	REV	REV	REV	REV
DATE	DATE	DATE	DATE	DATE	DATE

