

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: 2018-20076

Applicant: Comcast of Houston, LLC/Binkley & Barfield, Inc.

Job Location Site: Gaston Road, Katy, TX 77494

Bond No. [REDACTED] **Date of Bond:** 7/24/2007 **Amount:** \$100,000.00

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](https://mygovernmentonline.org) portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 24th day of April, 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: Rick J. Staigle, PE, PTOE
County Engineer

Date Recorded _____ Comm. Court No. _____

Clerk of Commissioners Court

N/A

By: _____
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: 2018-20076

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: \$100,000.00
- ☐ 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.

Rick J. Staigle, PE, PTOE

Permit Administrator

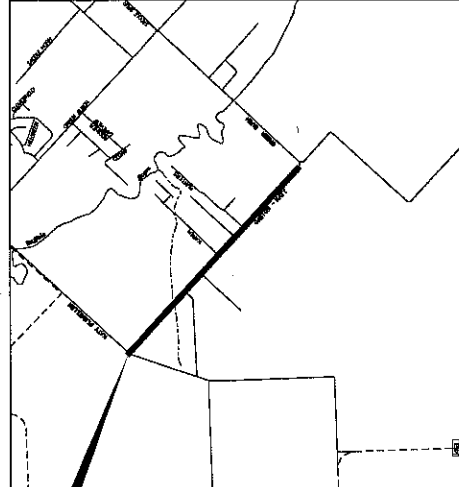
4/16/2018

Date

SHEET INDEX	
1	COVER SHEET
2	CONSTRUCTION NOTES & DETAILS SHEET 1
3	CONSTRUCTION NOTES & DETAILS SHEET 2
4	EXHIBIT OVERALL
5	EXHIBIT PLAN
6	EXHIBIT PLAN
7	EXHIBIT PLAN
8	EXHIBIT PLAN
9	EXHIBIT PLAN
10	EXHIBIT PLAN
11	EXHIBIT PLAN
12	EXHIBIT PLAN
13	TRAFFIC PLAN

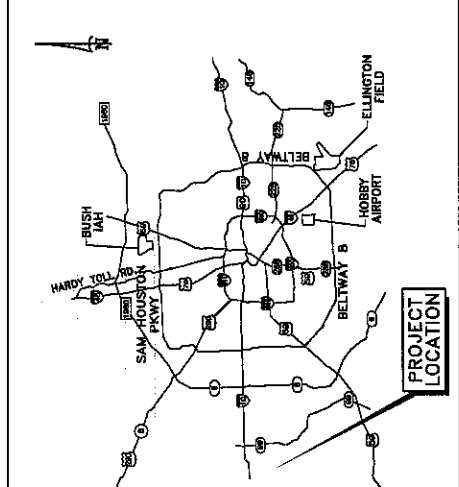


FORT BEND COUNTY ENGINEERING DEPARTMENT PLANS FOR CONSTRUCTION OF IMPROVEMENTS TO GASTON ROAD FROM KATY FLENWELLEN ROAD TO GREENBUSCH ROAD HARRIS COUNTY, TEXAS



LOCATION MAP
Not To Scale

KEY MAP No. 484-J, K, P, Q & U
ZIP CODE 77494



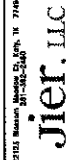
VICINITY MAP
Not To Scale

FROM FLOOD INSURANCE RATE MAP
DATE: 10/10/2018
MAPS AND NOTATIONS
THE SITE IS UNIMPAVED ZONE X, IS OUTSIDE 0.2% CHANCE FLOODPLAIN

I, EDWARD L. JIER, A PROFESSIONAL ENGINEER, CERTIFY THAT
THE DATA AND INFORMATION SUBMITTED TO ME BY THE CLIENT
WAS TRUE AND CORRECT AND I HAVE NOT BEEN INFORMED OF ANY
MATERIAL OMISSIONS OR MISSTATEMENTS OF FACTS.

Contractor shall comply with City
of Houston Street Use Ordinance

Contractor shall notify the City of Houston, Department of Public Works and
Engineering, Office of the City Engineer, 48 hours before starting work on
this project. Phone No. 832-394-0088



COMCAST SHALL INSTALL 12" H.D.P.E. CONDUIT FROM THE
INTERSECTION OF KATY FLENWELLEN ROAD AND GASTON ROAD
TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN
LAKE AND GASTON ROAD

EXHIBIT
JT-70734-CIN-FORT BEND COUNTY
GASTON ROAD UTILITY RELOCATION

DESIGNED BY: BEI
DRAWN BY: PN
DWG. NO.

DATE: 04/05/2018
KEY MAP: 332J-K-N-P

DRAWING SCALE
VERT: NONE
HORIZ: NONE
SHEET NO. 1 OF 13

All these notices: Contractor shall notify Harris County after
to surrounding construction and/or modifying any utilities
before starting work. To contact Public Works Department @
PublicWorks@harriscountytx.gov

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG
FOR A LIST OF PARTICIPATING UTILITIES
AND SERVICE PROVIDERS VISIT:
www.callbeforeyoudig.com

* UNPAID FORWARDED MAILING WATER
MAIL IS NOT BEING MAILED AT THE
FOLLOWING ADDRESS: 10000 N. 100TH ST., SUITE 100, DALLAS, TX 75243

FOR REVIEW ONLY

1. If existing buried cable is exposed during trenching operations, coordinate temporary support and protection of buried cable while placing cable in the same trench as conduit.
2. Coordinate temporary support and protection of underground conduit with construction and maintenance forces.

- [illegible]

[illegible]

- [illegible]

[illegible]

- [illegible]

[illegible]

WARNING: OVERHEAD ELECTRICAL LINES

There may be overhead power lines in the area. The location of overhead lines has not been shown on these drawings so you are strongly advised, but you should locate them by your own means. Do not attempt to install the system until you are satisfied that there are no overhead power lines in the area. If you are unsure, contact the local electricity supply authority for advice. Do not attempt to install the system until you are satisfied that there are no overhead power lines in the area. If you are unsure, contact the local electricity supply authority for advice.

[illegible]

level of public notice and advertising's "Standard Construction Specifications" and "Standard Construction Details for Multistorey Collective Systems, Water-Lines, Pipes and Fittings" were otherwise noted and approved on time plans. The design is consistent with the minimum standards established in 1971 by the Department of Public Works and Engineering, and the design is consistent with the minimum standards established in 1971 by the Department of Public Works and Engineering, and the design is consistent with the minimum standards established in 1971 by the Department of Public Works and Engineering.

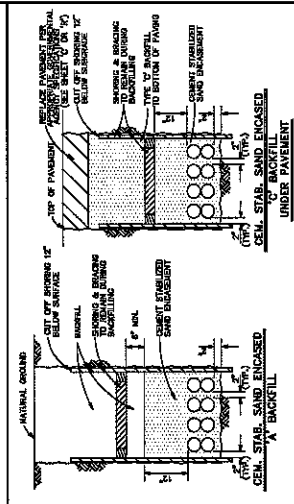
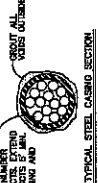
1. Minimum horizontal clearance between any storm pipe and box shall be at least 48-inches from exterior of the storm pipe or box to the exterior of the existing or proposed public or private utility and other appurtenances. Minimum vertical clearance between any storm pipe shall be at least 18-inches from exterior of the storm pipe or box to the exterior of the existing or proposed or private utility and other appurtenances.
2. The contractor shall be responsible for protecting, maintaining, and restoring any back slope or slope which is disturbed as a result of this work.

1. Minimum horizontal clearance between any storm pipe and box shall be at least 48-inches from exterior of the storm pipe or box to the exterior of the existing or proposed public or private utility and other appurtenances. Minimum vertical clearance between any storm pipe shall be at least 18-inches from exterior of the storm pipe or box to the exterior of the existing or proposed or private utility and other appurtenances.
2. The contractor shall be responsible for protecting, maintaining, and restoring any back slope or slope which is disturbed as a result of this work.

CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART 6 OF THE TEXAS MANUAL ON TRAFFIC CONTROL. DURING ALL TIMES WHEN ANY LANE OR PORTION OF A ROADWAY IS CLOSED FOR CONSTRUCTION, THE HOURLY RATE OF FLOW OF TRAFFIC SHALL BE MAINTAINED AT NOT LESS THAN 80 PERCENT OF THE FREE-FLOWING RATE OF TRAFFIC UNDER NORMAL CONDITIONS. ALL LANES SHALL BE CLOSED DURING THE HOURS OF 7 AM TO 5 PM ON MONDAY THRU FRIDAY IN DONATUEN AVENUE AREA. NO LANE SHALL BE CLOSED LONGER THAN NEEDED TO COMPLETE THE PROJECT. CONTRACTOR SHALL ADVISE TxDOT OF ANY CLOSURE OF ROADWAY FOR MORE THAN 24 HOURS. CONTRACTOR SHALL ADVISE TxDOT OF ANY CLOSURE OF ROADWAY FOR MORE THAN 24 HOURS.

- [illegible]

Contractor shall submit a schedule of work to the Engineer for review and approval. The schedule shall include a list of all work items, a description of each item, and an estimated completion date. The Contractor shall also submit a list of all materials and equipment to be used in the work, and a list of all subcontractors to be employed. The Contractor shall be responsible for obtaining all necessary permits and licenses for the work. The Contractor shall also be responsible for maintaining accurate records of all work performed, and for providing regular progress reports to the Engineer. The Contractor shall be responsible for ensuring that all work is completed in accordance with the approved schedule, and for notifying the Engineer of any delays or changes to the schedule. The Contractor shall also be responsible for ensuring that all materials and equipment are of high quality, and for providing proof of insurance for all subcontractors. The Contractor shall be responsible for ensuring that all work is completed in a safe and sound manner, and for complying with all applicable laws and regulations. The Contractor shall be responsible for ensuring that all work is completed in a timely manner, and for providing a final report to the Engineer upon completion of the work.

[illegible]

CONCRETE REQUIREMENTS				
TYPE OF STRUCTURE	COMPRESSIVE STRENGTH (PSI)	MAX. SIZE OF AGGREGATE (IN.)	SUMP (IN.)	TYPE OF JOINT (SEE NOTE)
Manholes and other items requiring Ductile Iron Manhole Warrant	4000 4000	3/4"	5	1 or H
Manholes (Standard) Culverts, Dips and Yps, ditch or unimproved slope	3500 3500	1/4 to 3/8"	9	1 or M
Manholes, Dips, Culverts, Ditches	2500	3/4 to 1-1/2"	3	1 or M

NOTE: Type of joint used and depth to which normal or duct, case joint is installed, for construction.

DATE: 11-11-1964

DESIGNED BY: BBI	LAMBERT: BBI	VERT.: NONE HORIZ: 1"=20' (22X3) HORIZ: 1"=40' (11X17) SHEET NO. 2 OF 13
DRAWN BY: PN	DATE: 04/05/2018	
DWG. NO.	KEY MAP: 332J-K-N-P	

**EXHIBIT
WIN-FORT BEND COUNTY
ROAD UTILITY RELOCATION**

COMCAST SHALL INSTALL 1'-2" H.D.P.E. CONDUIT FROM THE INTERSECTION OF KATY FLEWELLEN ROAD AND GASTON ROAD TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN LANE AND GASTON ROAD

Comcast
7033 ARBONET RD.
HOUSTON, TX 77061-3812

28122 BREWSTER, Houston, TX 77041
281-285-7342

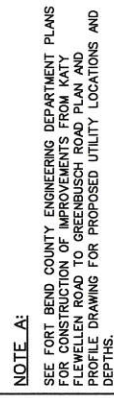
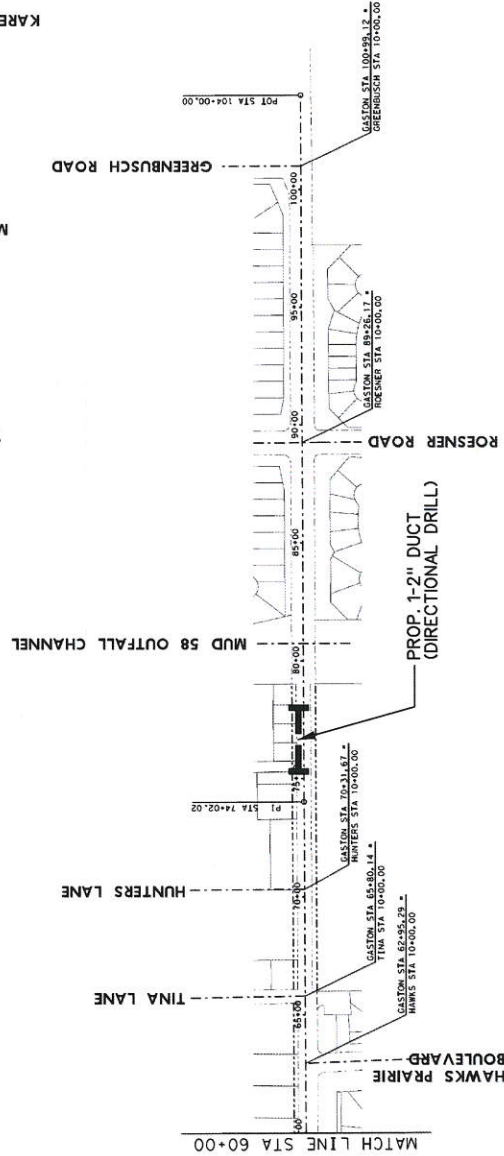
Jier, LLC
C/O 48193

Blinkley & Berfield, Inc.
Consulting Engineers
1500 West Loop South, Suite 1500
Houston, TX 77063-1500

Jier, LLC
251 W. Main St., Suite 100, TX 77494
281-392-2400

Comcast
7033 AIRPORT BLVD.
HOUSTON, TX 77061-3812

Ref: PDF-LightKit.dll

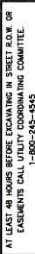


SEE FORT BEND COUNTY ENGINEERING DEPARTMENT PLANS
FOR CONSTRUCTION OF IMPROVEMENTS FROM KATY
FLEWELLEN ROAD TO GREENBUSH ROAD PLAN AND
PROFILE DRAWING FOR PROPOSED UTILITY LOCATIONS AND
DEPTHS.

COMCAST DUCT LAYOUT

 7000 AIRPORT BLVD HOUSTON, TX 77061-3912	23123 Business Center Dr., 77464 Houston, TX 77060-2466  Jier, LLC consulting engineers 10000 Katy Fwy, Suite 400 Houston, TX 77058-4400 Phone: 281.410.1387 Fax: 281.410.1387	 Binkley & Barfield, Inc. consulting engineers 10000 Katy Fwy, Suite 400 Houston, TX 77058-4400 Phone: 281.410.1387 Fax: 281.410.1387	COMCAST SHALL INSTALL 1-2" H.D.P.E. CONDUIT FROM THE INTERSECTION OF KATY FLEWELLEN ROAD AND GASTON ROAD TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN LANE AND GASTON ROAD	EXHIBIT JT-70734-CIN-FORT BEND COUNTY GASTON ROAD UTILITY RELOCATION	DESIGNED BY: BBI DRAWN BY: PN DATE: 04/05/2018 KEY MAP: 332-J-K-N-P DWG. NO.	LAMBERT: BBI VERT. NO.: NONE HORIZ. NO.: (29344) HORIZ. 1"=40' (1:1317) SHEET NO. 4 OF 13
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AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL UTILITY COORDINATING COMMITTEE.
1-800-245-4545



1. THE CONTRACTOR SHALL CONTACT TEXAS ONE CALL SYSTEM AT 1-800-245-4545 MIN. 48 HOURS BEFORE DIGGING.
2. 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.
3. 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)
4. ALL EXCESS EXCAVATION TO BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF THE DAY.
5. DITCHES TO BE OPENED AT THE END OF EACH DAY TO ASSURE ADEQUATE DRAINAGE.
6. ROAD MUST BE KEPT OPEN TO TRAFFIC AND CONTRACTOR MUST PROVIDE ADEQUATE FLAGMEN, SIGNALS, ETC., TO PROVIDE COMPLETE SAFETY TO THE PUBLIC.
7. 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.
8. CONDITION OF ROAD UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING.
9. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL ELECTRICAL SAFETY CODE (NEC) REQUIREMENTS, CENTERPOINT ENERGY ELECTRIC POLE ATTACHMENT GUIDELINES & PROCEDURES AND ALL APPLICABLE LOCAL REQUIREMENTS AND REGULATIONS FOR PLACEMENT OF AERIAL CABLE FACILITIES. 18" MIN. VERTICAL CLEARANCE.

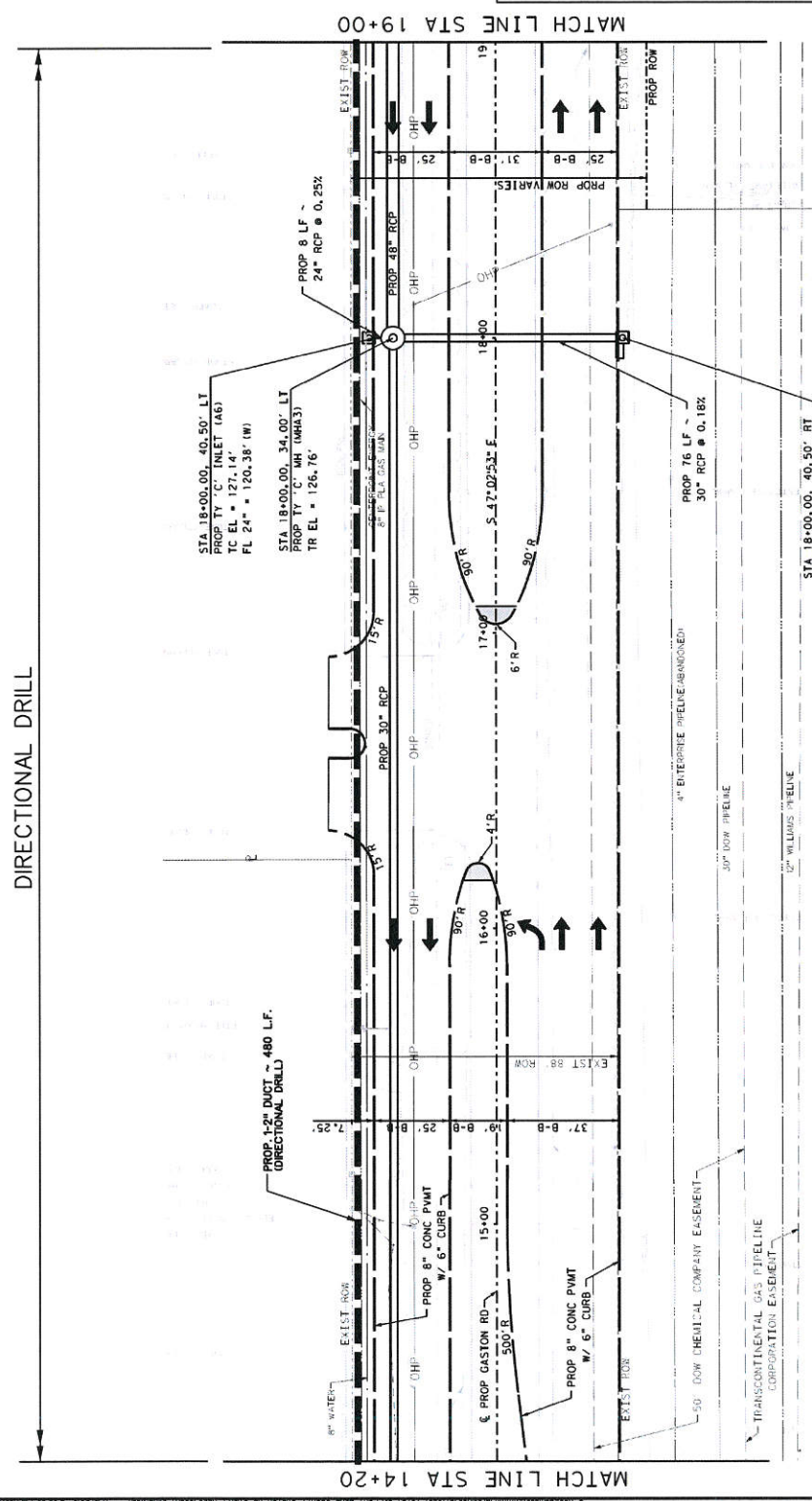
Diagram illustrating a road cross-section with a 60' R.O.W. (Right of Way). The diagram shows a central travel lane with a 25' width, flanked by shoulders. The total width is 60' R.O.W. The diagram includes labels for 'VARIES', '25'', 'C.P.', 'E.O.P.', '12' WALK COVER', 'PROG. CABLE', and '3''.

The diagram illustrates the cross-section of the 'A' crossing. It shows a central rectangular structure with a width of 14'0" R.O.W. (Right of Way). The structure is divided into two main sections: a top section labeled 'PROP. CABLE AND BORE CASING' and a bottom section labeled '5' MIN. COVER'. The top section has a height of 'VARIES' and a width of 'VARIES'. The bottom section has a height of 'VARIES' and a width of 'VARIES'. The total height of the structure is 'VARIES'. The diagram also shows a '5' MIN. COVER' layer at the bottom and a '5' MIN. COVER' layer at the top. The structure is flanked by 'R.O.W.' (Right of Way) areas on both sides.

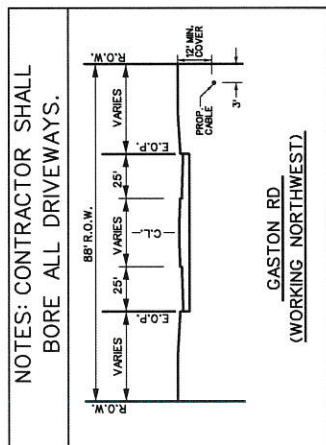
 7032 WARDPARK BLVD. FARMINGTON, CT 06031-3912	 Jier, LLC 1704 W. 10th St., Suite 100 Ft. Worth, TX 76102-4557	 Binkley & Barfield, Inc. consulting engineers 10000 Highway 100, Suite 100 Houston, Texas 77036-4401 Tel: 281.416.7600 Fax: 281.416.7601	COMCAST SHALL INSTALL 1-2" H.D.P.E. CONDUIT FROM THE INTERSECTION OF KATY FLEWELLEN ROAD AND GASTON ROAD TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN LANE AND GASTON ROAD	EXHIBIT JT-70734-CIN-FORT BEND COUNTY GASTON ROAD UTILITY RELOCATION	DESIGNED BY: BBI DRAWN BY: PN DWG. NO.	DATE: 04/05/2018 KEY MAP: 3322-K-N-P SHEET NO. 5 OF 13
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1. LEAVE AS MUCH BORE COUPLING IN STREET AS IS OF EASEMENTS CALL UTILITY COORDINATING COMMITTEE. 1-800-245-4545

DIRECTIONAL DRILL

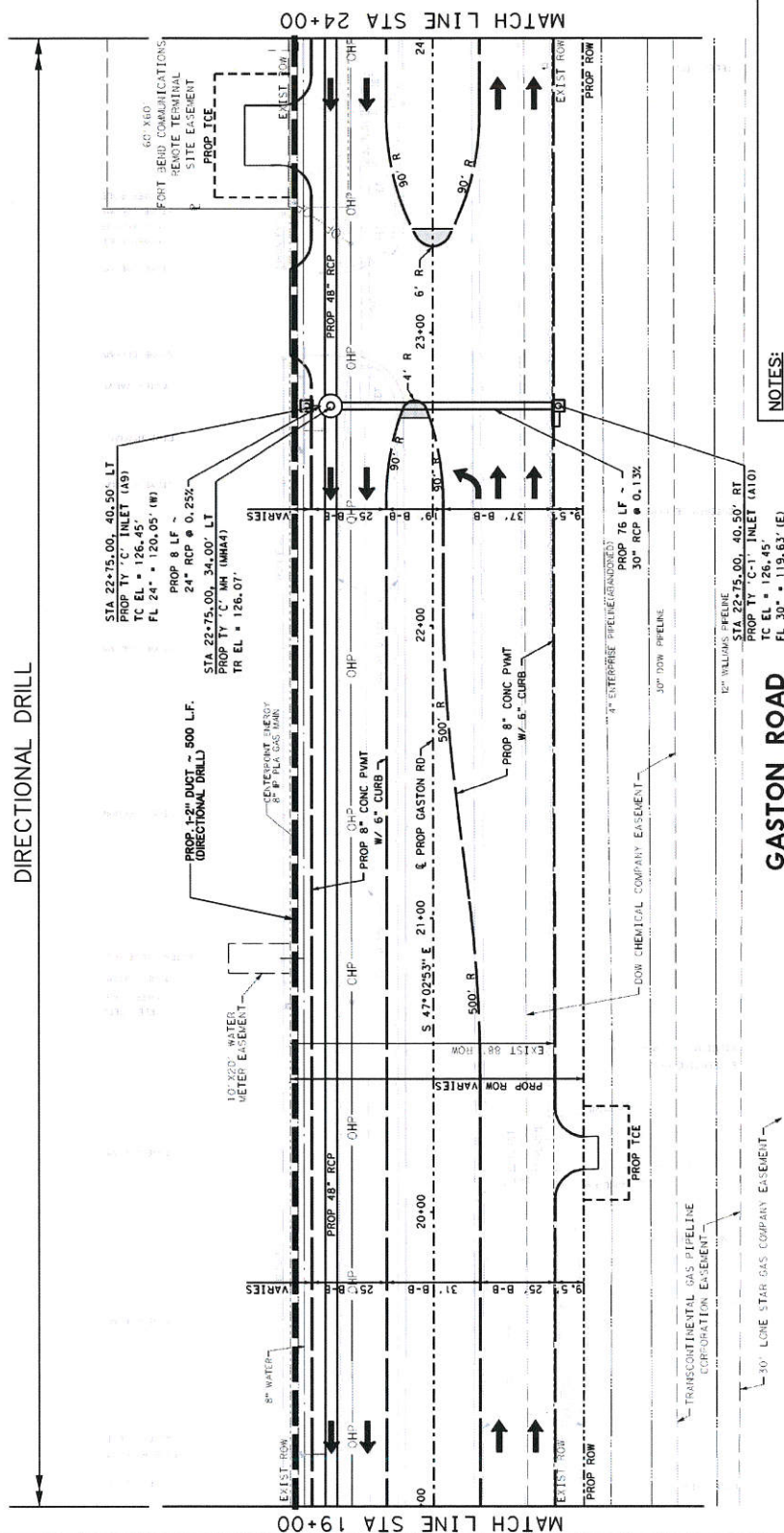


GASTON ROAD



- NOTES:**
1. THE CONTRACTOR SHALL CONTACT TEXAS ONE CALL SYSTEM AT 1-800-245-4545 MIN. 48 HOURS BEFORE DIGGING.
 2. 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.
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 6. ROAD MUST BE KEPT OPEN TO TRAFFIC AND CONTRACTOR MUST PROVIDE ADEQUATE FLAGMEN, SIGNALS, ETC., TO PROVIDE COMPLETE SAFETY TO THE PUBLIC.
 7. 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.
 8. CONDITION OF ROAD UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING.
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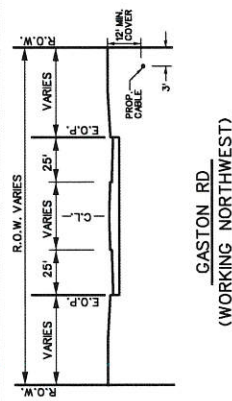
Comcast 7033 AIRPORT BLVD. HOUSTON, TX 77061-3812	Jier, LLC 21125 BAYVIEW BLVD. SUITE 300 HOUSTON, TX 77058-3400 FROM #357	Stinkley & Barfield, Inc. CONSULTING ENGINEERS 17000 WESTHELL BLVD. SUITE 100 HOUSTON, TX 77058-1000	EXHIBIT JT-70734-CIN-FORT BEND COUNTY GASTON ROAD UTILITY RELOCATION		DESIGNED BY: BBI DRAWN BY: PN DWG. NO.	LAMBERT: BBI DATE: 04/05/2018 KEY MAP: 332J-K-N-P	DRAWING SCALE VERT: NONE HORIZ: 1"=20' (22X34) HORIZ: 1"=40' (11X17)
			SHEET NO. 6 OF 13				



8. ROAD MUST BE KEPT OPEN TO TRAFFIC AND CONTRACTOR MUST PROVIDE ADEQUATE FLAGMEN, SIGNALS, ETC., TO PROVIDE COMPLETE SAFETY TO THE PUBLIC.
7. IF IT BECOMES NECESSARY FOR EQUIPMENT TO OPERATE FOR A LONGER PERIOD OF TIME, PRECAUTIONS MUST BE TAKEN TO PREVENT ANY DAMAGE WHATSOEVER TO THE PAVEMENT.
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NOTES: CONTRACTOR SHALL
BORE ALL DRIVEWAYS.



Comcast
7033 AIRPORT BLVD.
HOUSTON, TX 77061-3912



**Binkley
& Barfield, Inc.**
consulting engineers
Texas Registration Number F-287

COMCAST SHALL INSTALL 1-2" H.D.P.E. CONDUIT FROM THE INTERSECTION OF KATY FLEWELLEN ROAD AND GASTON ROAD TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN LANE AND GASTON ROAD

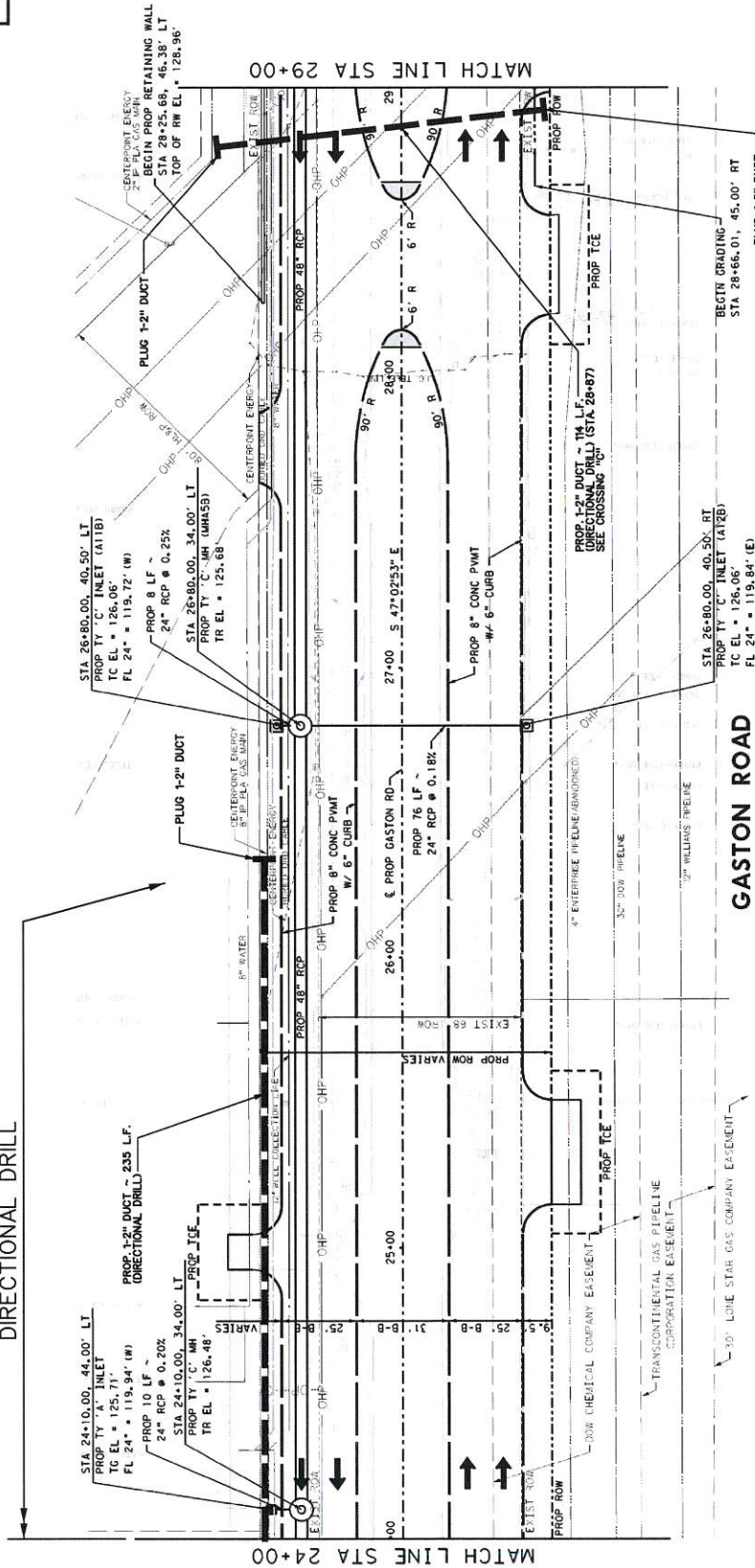
EXHIBIT
JT-70734-CIN-FORT BEND COUNTY
GASTON ROAD UTILITY RELOCATION

DESIGNED BY: BBI	LAMBERT: BBI
DRAWN BY: PN	DATE: 04/01/01
DWG. NO.	KEY MAP: 332J

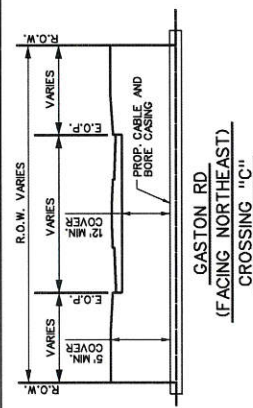
DRAWING SCALE	VERT.: NONE	HORIZ: 1"=20' (22X33)	HORIZ: 1"=40' (11X17)	SHEET NO. 7 OF 13
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AT LEAST 48 HOURS BEFORE DRAWING IN STREET B.O.M. OR
EASEMENTS CALL 1-800-245-4545

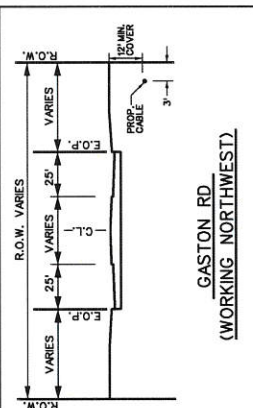
DIRECTIONAL DRILL



NOTES: CONTRACTOR SHALL
BORE ALL DRIVEWAYS.



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9. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL ELECTRICAL SAFETY CODE (NEC) REQUIREMENTS, CENTERPOINT ENERGY ELECTRIC POLE ATTACHMENT GUIDELINES & PROCEDURES AND ALL APPLICABLE LOCAL REQUIREMENTS AND REGULATIONS FOR PROTECTION OF AERIAL CABLE FACILITIES: 15 MIN. VERTICAL CLEARANCE.

DESIGNED BY: BBI	EXHIBIT	COMCAST SHALL INSTALL 12\"/>
DRAWN BY: PN	JT-70734-CIN-FORT BEND COUNTY	INTERSECTION OF KATY FLEWELLEN ROAD AND GASTON ROAD TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN LANE AND GASTON ROAD
DWG. NO.	GASTON ROAD UTILITY RELOCATION	



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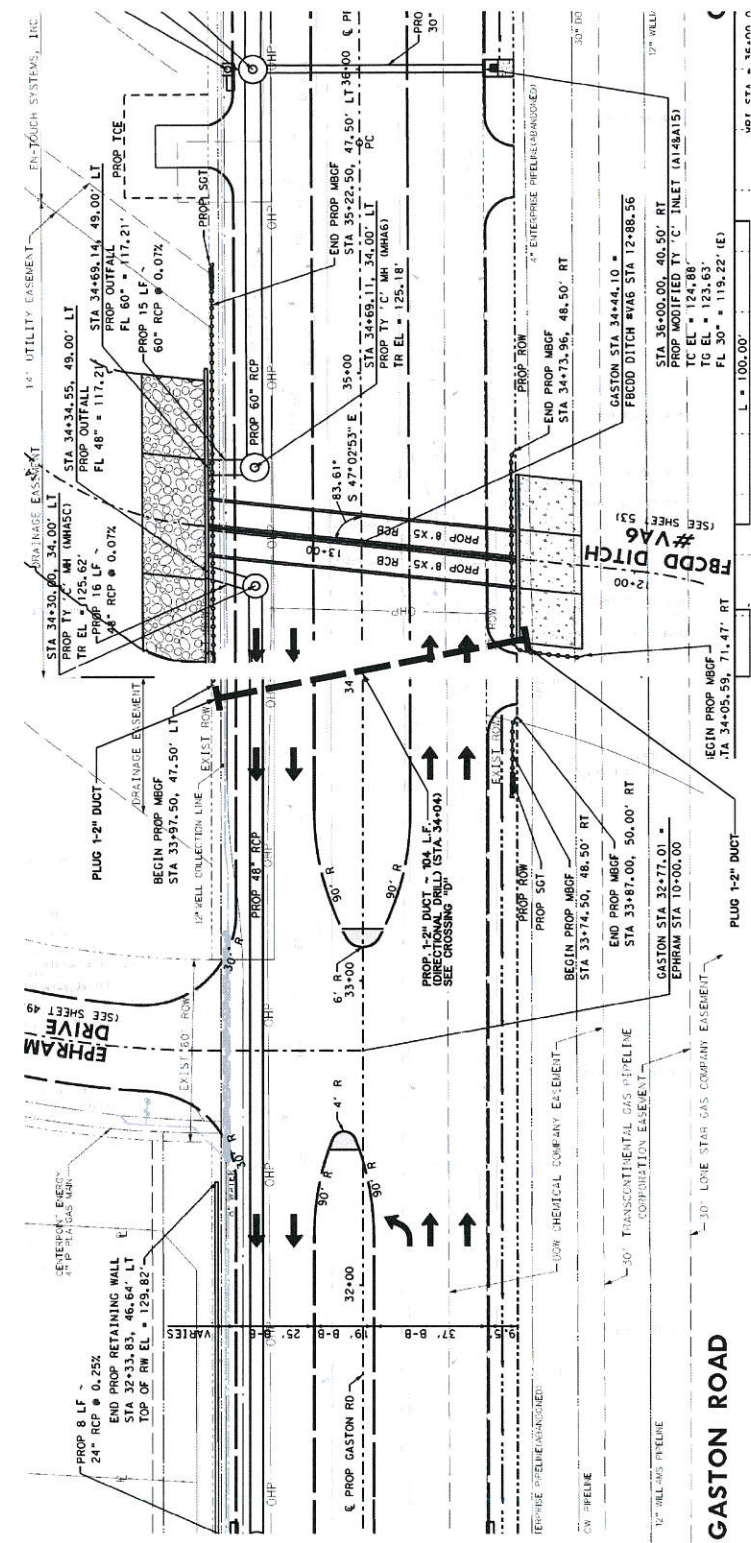
2122 Jier, LLC. All rights reserved. 1-800-245-4545



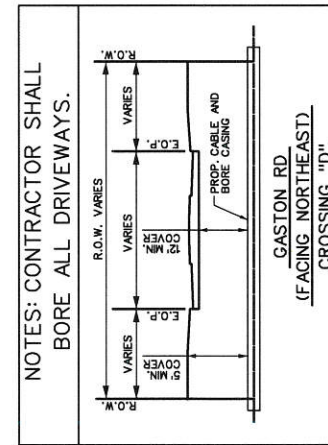
Binkley & Barfield, Inc. Consulting Engineers & Surveyors

LAMBERT: BBI	DRAWING SCALE
DATE: 04/05/2018	VERT: NONE
KEY MAP: 332J-K-N-P	HORIZ: 1"=20' (22X34)
	HORIZ: 1"=40' (11X17)
	SHEET NO. 8 OF 13

AT LEAST 48 HOURS BEFORE TOWING IN STREET SIDE OF
GASTON RD. TO ALLOW TIME FOR DOWNING CABLES.
1-800-245-4545



GASTON ROAD



NOTES:

1. THE CONTRACTOR SHALL CONTACT TEXAS ONE CALL SYSTEM AT 1-800-245-4545 MIN. 48 HOURS BEFORE DIGGING.
2. 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.
3. 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)
4. ALL EXCESS EXCAVATION TO BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF THE DAY.
5. DITCHES TO BE OPENED AT THE END OF EACH DAY TO ASSURE ADEQUATE DRAINAGE.
6. ROAD MUST BE KEPT OPEN TO TRAFFIC AND CONTRACTOR MUST PROVIDE ADEQUATE FLAGMEN, SIGNALS, ETC., TO PROVIDE COMPLETE SAFETY TO THE PUBLIC.
7. 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.
8. CONDITION OF ROAD UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING.
9. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL ELECTRICAL SAFETY CODE (NEC) REQUIREMENTS, UNDERGROUND FACILITIES, AND ALL APPLICABLE LOCAL REQUIREMENTS AND REGULATIONS FOR PLACEMENT OF AERIAL CABLE FACILITIES. 18' MIN. VERTICAL CLEARANCE.

			COMCAST SHALL INSTALL 1-2\"/>		EXHIBIT JT-70734-CIN-FORT BEND COUNTY GASTON ROAD UTILITY RELOCATION	DESIGNED BY: BBI DRAWN BY: PN DWG. NO.	LAMBERT: BBI DATE: 04/05/2018 KEY MAP: 332J-K-N-P	DRAWING SCALE VERT: NONE HORIZ: 1\"/>
			2012 Bureau of Highway Engineering 2012 Bureau of Highway Engineering 2012 Bureau of Highway Engineering					



Diagram illustrating the proposed road layout for the intersection of Gaston Rd and the existing road. The diagram shows a 3' wide road with a 12' minimum cover. Dimensions include 25' and 1' offsets, and 'VARIES' dimensions. Labels include 'R.O.W.', 'E.O.P.', 'PROPOSED CABLE', and 'GASTON RD (WORKING NORTHWEST)'.

8. CONDITION OF ROAD UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING.
9. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL ELECTRICAL SAFETY CODE (NEC) REQUIREMENTS, CENTERPOINT ENERGY ELECTRIC POLE ATTACHMENT GUIDELINES & PROCEDURES AND ALL APPLICABLE LOCAL REQUIREMENTS AND REGULATIONS FOR PLACEMENT OF AERIAL CABLE FACILITIES, 18" MIN. VERTICAL CLEARANCE.

Comcast
7033 AIRPORT BLVD.
HOUSTON, TX 77061-3012

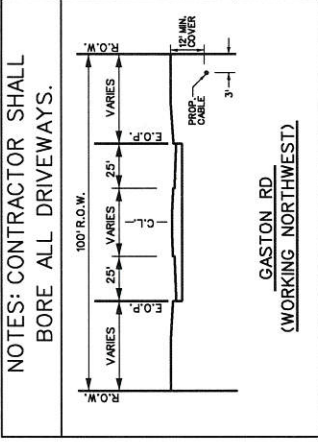
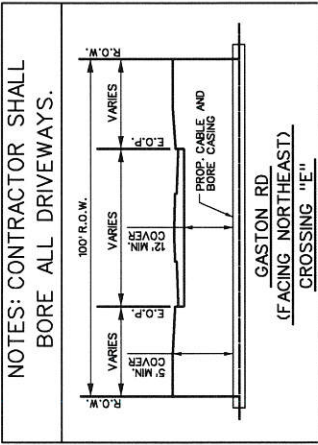
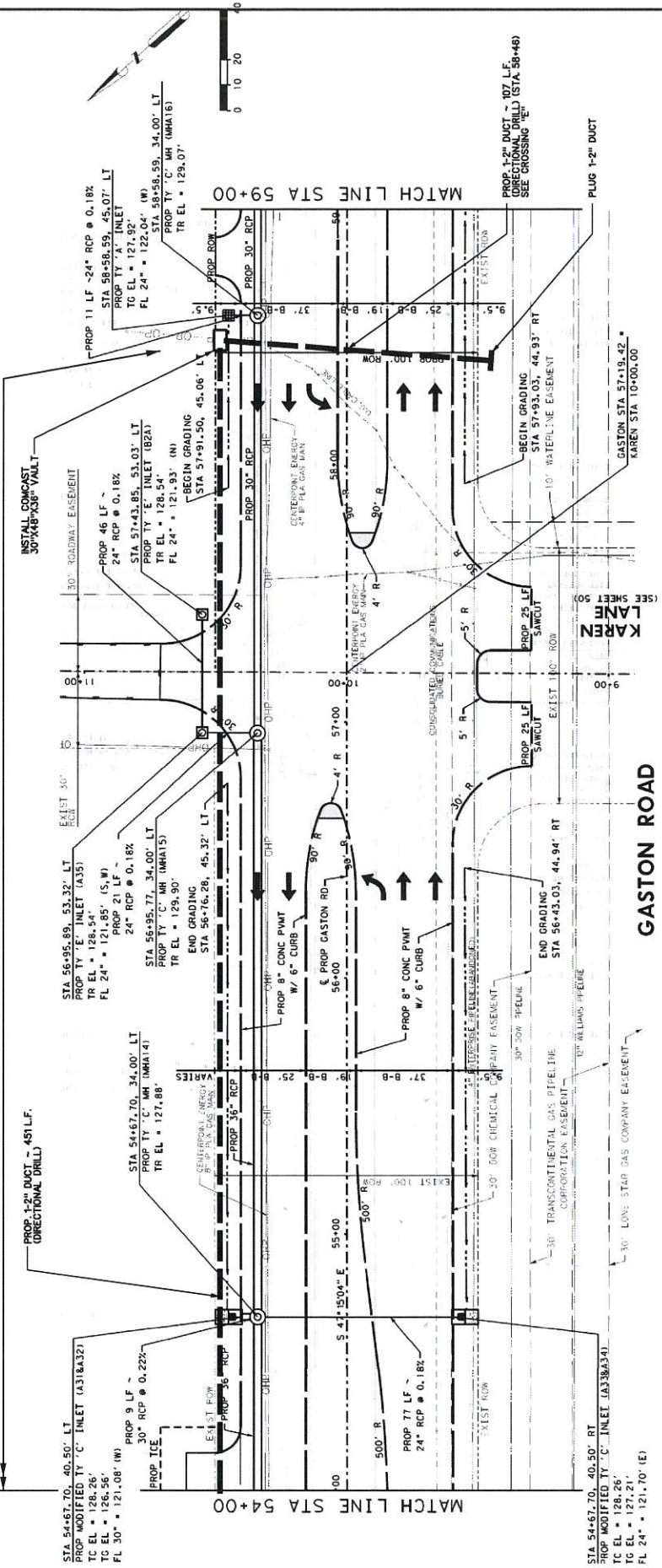
EXHIBIT
JT-70734-CIN-FORT BEND COUNTY
GASTON ROAD UTILITY RELOCATION

DESIGNED BY: BBI	LAMBERT: BBI
DRAWN BY: PN	DATE: 04/05/2018
DWG. NO.	KEY MAP: 332J-K-N-P

DRAWING SCALE	VERT.: NONE
	HORIZ.: 1"=20' (22X)
	HORIZ.: 1"=40' (11X)

AT LEAST 48 HOURS BEFORE DRAWING IN SHEET ROOM OR
ENGINEERING CONSULTING COMMITTEE
1-800-245-4545

DIRECTIONAL DRILL



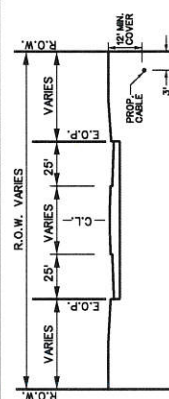
- NOTES:
- THE CONTRACTOR SHALL CONTACT TEXAS ONE CALL SYSTEM AT 1-800-245-4545 MIN. 48 HOURS BEFORE DIGGING.
 - THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND FACILITIES.
 - 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)
 - ALL EXCESS EXCAVATION TO BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF THE DAY.
 - DITCHES TO BE OPENED AT THE END OF EACH DAY TO ASSURE ADEQUATE DRAINAGE.
 - 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.
 - CONDITION OF ROAD UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING.
 - CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL ELECTRICAL SAFETY CODE (NECS) REQUIREMENTS, CENTERPOINT ENERGY, ELECTRIC POLE AND LINE DEPARTMENT, AND ALL APPLICABLE LOCAL REQUIREMENTS AND REGULATIONS FOR PLACEMENT OF AERIAL CABLE FACILITIES. 18" MIN. VERTICAL CLEARANCE.

 2015 Houston Area Office 7033 Airport Blvd. Houston, TX 77061-3812 TEL: 281-281-3812 FAX: 281-281-3812	 2512 Bayview Houston, TX 77058 TEL: 281-281-3812 FAX: 281-281-3812	 Binkley & Barfield, Inc. Consulting Engineers 2512 Bayview Houston, TX 77058 TEL: 281-281-3812 FAX: 281-281-3812	COMCAST SHALL INSTALL 1-2" H.D.P.E. CONDUIT FROM THE INTERSECTION OF KATY FLEWELLEN ROAD AND GASTON ROAD TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN LANE AND GASTON ROAD	EXHIBIT JT-70734-IN-FORT BEND COUNTY GASTON ROAD UTILITY RELOCATION	DESIGNED BY: BBI DRAWN BY: PN DWC. NO.	LAMBERT: BBI DATE: 04/05/2018 KEY MAP: 332J-K-N-P	DRAWING SCALE VERT: NONE HORIZ: 1"=20' (22X14) HORIZ: 1"=40' (11X17)	SHEET NO 11 OF 13



1. THE CONTRACTOR SHALL CONTACT TEXAS ONE CALL SYSTEM AT 1-800-251-4345 MIN. 48 HOURS BEFORE DIGGING.
2. 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.
3. 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)
4. ALL EXCESS EXCAVATION TO BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF THE DAY.
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**NOTES: CONTRACTOR SHALL
BORE ALL DRIVEWAYS.**



GASTON RD
(WORKING NORTHWEST)

Comcast

2123 Blossom Meadow Ct., Kaly. 1X 77494
261-392-2480

**Binkley
& Barfield, Inc.**
consulting engineers
Texas Registration Number F-257

COMCAST SHALL INSTALL 1-2" H.D.P.E. CONDUIT FROM THE INTERSECTION OF KATY FLEWELLEN ROAD AND GASTON ROAD TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN LANE AND GASTON ROAD

EXHIBIT
JT-70734-CIN-FORT BEND COUNTY
GASTON ROAD UTILITY RELOCATION

DESIGNED BY: BBI	LAMBERT: BBI
DRAWN BY: PN	DATE: 04/05/2018
DWG. NO.	KEY MAP: 332J-K-N-P

DRAWING SCALE
VERT.: NONE
HORIZ: 1"=20' (22X33)
HORIZ: 1"=40' (11X17)

ROADWAY	POSTED SPEED	TAPER LENGTH	SPOACING CLOSING DIMENSION TAPER INCREMENT	SIGN SPACING DIMENSION	BUFFER SPACE
GASTON ROAD	40 MPH	200'	45"	300'	180'

Formula Number	Formula	Minimum Time Length	Minimum Distance	Suggested Maximum Time Length	Suggested Maximum Distance	Suggested Lap Length	Suggested Bathing Space
30	10^3	15'	15'	30'	60'	60'	
35	10^3	205'	225'	2405'	265'	120'	
40	10^3	455'	485'	5405'	605'	195'	
45	10^3	545'	585'	6405'	715'	245'	
50	10^3	645'	695'	7405'	825'	295'	
55	10^3	745'	805'	8405'	935'	345'	
60	10^3	845'	915'	9405'	1045'	395'	
65	10^3	945'	1025'	10405'	1155'	445'	
70	10^3	1045'	1135'	11405'	1265'	495'	
75	10^3	1145'	1245'	12405'	1385'	545'	

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

LEGEND	
	Type 3 Baricade
	Heavy Work Vehicle
	Trailer Mounted Flashing Arrow Board
	Sign
	Flag
	Finger
	Truck Mounted Attenuator (TMA)
	Portable Cylindrical Message Sign (PCMS)
	Traffic Flow

[illegible]

WORK SPACE ON SHOULDER



**Binkley
& Barfield, Inc.**
consulting engineers
Texas Registration Number F-287
U.S. Registered Office

COMCAST SHALL INSTALL 1-2" H.D.P.E. CONDUIT FROM THE INTERSECTION OF KATY FLEWELLEN ROAD AND GASTON ROAD TO APPROXIMATELY 2,130' EAST OF THE INTERSECTION OF KAREN ANE AND GASTON ROAD

EXHIBIT
JT-70734-CIN-FORT BEND COUNTY
GASTON ROAD UTILITY RELOCATION

DESIGNED BY: BBI	LAMBERT: BBI	DRAWING SCALE
OWN BY: PN	DATE: 04/05/2018	VERT.: NONE
	KEY MAP: 332J-K-N-P	HORIZ.: NONE