



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

13B
**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: 2018-18982

Applicant: Verizon

Job Location Site: 3818 Mason Road, Richmond, TX 77471

Bond No. **Date of Bond:** 8/27/1981 **Amount:** \$150,000.00

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 24th day of April, 2018, Upon Motion of Commissioner Meyero, 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

Presented to Commissioners Court and approved.

By:

Rick J. Staigle, PE, PTOE
County Engineer

Date Recorded

4-30-18

Comm. Court No.

13B

N/A

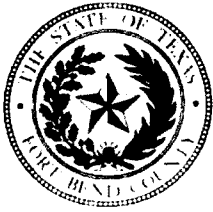
By:

Drainage District Engineer/Manager

Clerk of Commissioners Court

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: 2018-18982

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: \$150,000.00
- ☐ 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

4/13/2018

Date

**MCImetro
ACCESS TRANSMISSION SERVICES CORP.**

**OUTSIDE PLANT CONSTRUCTION
FIBER OPTIC CABLE ROUTE**

**PROJECT #: 1708AOZQ.040
PECAN GROVE TO CINCO RANCH**

**RICHMOND, TX TO KATY, TX
FORT BEND COUNTY**

**NOTE:
CONTRACTOR YOU ARE TO CALL THE TxDOT INSPECTOR
NOTED ON THE APPROVED PERMIT 48 HOURS PRIOR TO
THE START OF CONSTRUCTION.**

**NOTE:
CONTRACTOR IS REQUIRED TO CONTACT TxDOT DISTRICT TRAFFIC SIGNAL SHOP
AT 817-370-3661 FOR LINE LOCATES IF BURIED PORTION OF THIS WORK
IS NEAR TxDOT TRAFFIC SIGNALS**

**SITE CODE: HODATX
02/22/2018**

PROJECT STATUS: CONSTRUCTION

LOCATION MAP

RICHMOND, TX
FORT BEND COUNTY



PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

SITE NAME: CINCO RANCH-1708AOZQ.040
CINCO RANCH CELL SITE
RICHMOND, TX 77450

SITE NAME: PECAN GROVE-1708AOZQ039
SITE NUMBER: 192842
2433 1/2 FARMERS RD
RICHMOND, TX 77406

MAP LINE LEGEND

- PROPOSED BURIED CABLE
- PROPOSED AERIAL CABLE

DATE: 01/03/2018

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE DESCRIPTION INITIAL

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

SHEET 02 OF 83

FILE: 1708ADZQ. 040-02AC. BEL. DWG

CONTACT SHEET

VERIZON BUSINESS

N/A

OUTSIDE PLANT ENGINEERING:

PROJECT COORDINATOR NAME XXX-XXX-XXXX
SUPERVISOR:
MANAGER NAME XXX-XXX-XXXX

OUTSIDE PLANT CONSTRUCTION:

MANAGER LARRY SAUNDERS (214) 213-4470
PROJECT MANAGER JEFF BUHLER (214) 995-2518
ENGINEER MARCUS ARMJO

RIGHT-OF-WAY:

AGENT:
MANAGER:

CONTRACTS:

COORDINATOR:
MANAGER:

OTHERS:

PROGRAM MANAGER:
LIGHTVALE ENGINEER:
CIVIL ENGINEER:
TERMINAL CONST. REP.:
SPLICING MANAGER:
TSD MANAGER NAME XXX-XXX-XXXX

ENGINEERING CONTRACTOR

NAME OF FIRM: GXT, LTD (469)-385-5163
1130 EAST ARAPAH0 ROAD, SUITE 265
RICHARDSON, TX 75081

PRESIDENT/CEO: MICHELLE LENKER (214) 914-2326
DIRECTOR OF ENGINEERING: KEN BAILEY (214)-551-5954
OSP ENGINEER: JOHN JOHNSON (303)-981-6181

CONSTRUCTION CONTRACTOR

NAME OF FIRM:
PROJECT COORDINATOR:
PROJECT SUPERINTENDENT:

RAILROADS

UNION PACIFIC RAILROAD
1400 DOUGLAS ST. STOP 1690
OMAHA, NE 68179-1690
DANIEL PETERS

OFFICE: 402-554-8620
E-MAIL: dcpeters@UP.COM

BNSF RAILROAD
3313 CRITES ST.
FORT WORTH, TX 76118
WILLIAM ROSS

CELL: (817) 832-6019
E-MAIL: kross@bkrossllc.com

CLIENT

N/A

UTILITIES

MC1 UTILITY LOCATE
TEXAS ONE CALL SYSTEM (UTILITY LOCATES)

1-800-624-9675
1-800-245-4545

CALL BEFORE YOU DIG III (IN HOUSTON)
(NEW STATEWIDE NUMBER OUTSIDE HOUSTON)

713-223-4567
1-800-545-6005

MEMBERS:

SBC
UNDERGROUND GAS FACILITIES
CENTERPOINT ENERGY PIPELINE
CENTERPOINT ENERGY ELECTRIC

1-800-344-8377
(713) 223-4567 / 1-800-669-8244
(713) 967-8037
(713) 207-7777 / (713) 223-4567

CITY GOVERNMENT

CITY OF ROSENBURG

CHARLES KALKOMEY
CITY ENGINEER
2220 4TH STREET
ROSENBURG, TX 77471

OFFICE: (832) 595-3500
EMAIL:

COUNTY GOVERNMENT

N/A

STATE GOVERNMENT

TEXAS DEPARTMENT OF TRANSPORTATION

TRICIA COLLETTE
7600 WASHINGTON AVE.
HOUSTON, TX 77007
PERMIT COORDINATOR

OFFICE: (713) 802-5568
EMAIL: TRICIA.COLLETTE@TXDOT.GOV

FEDERAL GOVERNMENT

N/A

OTHER

N/A

PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77450
OUTSIDE PLANT - FIBER

DATE: 01/03/2018

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
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EMPLOYEES SHALL BE RESPONSIBLE FOR THE
REPRODUCTION, COPIES, IN WHOLE OR IN PART,
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

SHEET 03 OF 83

FILE: 1708ADZQ. 040-03AC. 3CL. DWG

GENERAL NOTES / CLARIFICATION NOTES

CONSTRUCTION NOTES

1. ALL CONDUIT WILL BE 4" ID SCHEDULE 40 (i.e. PVC OR BSP/GSP, MANUFACTURED SPLIT PVC OR SPLIT BSP/GSP), UNLESS SPECIFIED OTHERWISE.
2. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. SEE CONTACT SHEET FOR CONTACT NAME AND TELEPHONE NUMBER.
3. ALL UNDERGROUND OBSTRUCTIONS, WHEN LOCATED, WILL REQUIRE THE PLACEMENT OF A BURIED CABLE MARKER AND THE PLACEMENT OF 4" MANUFACTURED SPLIT PVC, BSP/GSP OVER OR UNDER EACH OBSTRUCTION.
5. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 42" MINIMUM COVER UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
6. MECHANICAL PROTECTION SHALL BE REQUIRED ANYTIME A 36" MINIMUM COVER IS UNOBTAINABLE UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
7. ALL 90 DEGREE BENDS IN CONDUIT CONSTRUCTION WILL BE A MINIMUM 38.2" RADIUS UNLESS SPECIFIED OTHERWISE. ALL SPLIT CONDUIT BENDS AND SOLID PVC BENDS SHALL REQUIRE CONCRETE ENCASEMENT, UNLESS SPECIFIED OTHERWISE.
8. OPERATIONS PERSONNEL TO BE CONTACTED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION. SEE CONTACT SHEET FOR CONTACT NAME AND TELEPHONE NUMBER.
9. ALL STATIONING IS BASED ON AS-BUILT INFORMATION, THEREFORE SOME VARIANCE SHOULD BE ANTICIPATED. ADJUST AS NEEDED.
10. RAILROAD COMMUNICATION AND SIGNAL CABLES TO BE LOCATED PRIOR TO CONSTRUCTION ACTIVITY. RAILROAD TO BE GIVEN 49 HOURS NOTICE PRIOR TO CONSTRUCTION.
11. ALL BURIED CABLE MARKER POSTS AND HARDWARE PLACED AND/OR REMOVED ON ALL NEW AND EXISTING ROUTES SHALL BE IMPLEMENTED AS FOLLOWS:
 - A. ON THOSE ROUTES THAT ARE CONSIDERED TO BE IN A NORTH TO SOUTH GEOGRAPHICAL ORIENTATION, THE SOUTHERN-MOST SIGN AND POST SHOULD BE REMOVED.
* FOR NEW ROUTES BEING CONSTRUCTED, ONE SIGN POST WILL BE PLACED AT THE NORTH END OF EACH HANDHOLE.
 - B. ON THOSE ROUTES THAT ARE CONSIDERED TO BE IN AN EAST TO WEST GEOGRAPHICAL ORIENTATION, THE WESTERN-MOST SIGN AND POST SHOULD BE REMOVED.
* FOR NEW ROUTES BEING CONSTRUCTED, ONE SIGN POST WILL BE PLACED AT THE EAST END OF EACH HANDHOLE.

GENERAL NOTES

- MCI COMPRISES THE FOLLOWING OPERATING ENTITIES:
- MCI COMMUNICATIONS SERVICES, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES, LLC
 - MCI METRO ACCESS TRANSMISSION SERVICES OF VIRGINIA, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES OF MASSACHUSETTS, INC.
 - METROPOLITAN FIBER SYSTEMS OF NEW YORK, INC.
2. ALL WORK TO BE DONE WITH EXTREME CAUTION ! FIBER OPTIC CABLE IS CARRYING TRAFFIC AND LOSS OF SERVICE WILL RESULT IN LOSS OF REVENUE. CONTRACTOR SHALL NOT WORK IN A MANNER THAT MAY AFFECT TRAFFIC-CARRYING FACILITIES IN THE ABSENCE OF AN MCI EMPLOYEE OR CERTIFIED CONTRACTOR.
3. ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, VENDOR BUSINESS, OR THE RIGHT-OF-WAY-GRANTOR.
4. LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD VALUATION MAPS OR OTHER DRAWINGS, AND MAY BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
5. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS, BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN EVENT OF CONFLICTS.
6. ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, AND REPAIR, IF DAMAGED.
7. ANY AND ALL IMPROVEMENTS, SUCH AS ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
8. EQUIPMENT TYPES SPECIFIED HEREIN (e.g. "BACKHOE, "SWAMP PLOW", ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXCEPTIONS.

ADDENDUM NOTES

CLARIFICATION NOTES (CONTINUED)

JACK AND DRY BORE CONDUITS(S)

PLACE CONDUIT
PLACE HIGH DENSITY POLYETHYLENE (HDPE)
ROCK ADDER
SLURRY BACKFILL ADDER
EXPOSE CONDUIT
EXPOSE CONDUIT AND RELOCATE
EXPOSE CONDUIT AND REPLACE/SUBSTITUTE
EXPOSE AND REMOVE CONDUIT
EXPOSE AND REMOVE CONDUIT (ABANDONED)
CONCRETE ENCASE
REMOVE CONCRETE ENCASEMENT
REMOVE CONCRETE CAP
PLACE HANDHOLE
REMOVE EXISTING HANDHOLE
RELOCATE HANDHOLE
REPLACE/SUBSTITUTE HANDHOLE
EXCAVATE SPLICE PIT
PLACE HANDHOLE
REMOVE EXISTING HANDHOLE
RELOCATE PRECAST MANHOLE
REPLACE/SUBSTITUTE PRECAST MANHOLE
CONSTRUCT WALL
REMOVE AND RESTORE ASPHALT
REMOVE AND RESTORE CONCRETE
REMOVE AND RESTORE SIDEWALK
REMOVE AND RESTORE CURBING

ATTACH CONDUIT TO WALL OR STRUCTURE
DETACH CONDUIT FROM WALL OR STRUCTURE
CORE BORE
ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE

PULL CABLE
PULL THROUGH DUCT (INNERDUCT)
REMOVE CABLE FROM CONDUIT
REPOSITION ACTIVE CABLE SLACK

DIRECT BURY CABLE
EXPOSE DIRECT BURIED CABLE
EXPOSE DIRECT BURIED CABLE AND RELOCATE
REMOVE AND DISPOSE OF CABLE
PLACE AERIAL CABLE
RELOCATE AERIAL CABLE
DELASH AERIAL CABLE
RELASH AERIAL CABLE
REMOVE AERIAL CABLE
PLACE POLE/PUSH BRACE
REMOVE POLE/PUSH BRACE

JETTING CONDUIT
EMBEDMENT FLOW
DIRECTIONAL BORE

PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM
WATER CROSSING SIGNS
PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING
HANDHOLES/MANHOLES
REMOVE BURIED CABLE MARKER POST/HARDWARE
REMOVE CONCRETE BURIED CABLE MARKER POST

[illegible]

GENERAL NOTES / CLARIFICATION NOTES

(February 2017)

FORT BEND COUNTY TOLL ROAD AUTHORITY
(collectively known as FBTRA)

- Workers involved with traffic control, including the maintenance of the traffic control, must comply with the requirements of TxDOT Specification, Section 7 2 6.5, "Training."
 - Provide a copy of the certification of completion to the Engineer, except in the case of Contractor-developed Training.
- Ensure the certification of completion includes the following:
- name of provider and course title,
 - name of participant,
 - date of completion, and
 - date of expiration.

- print name and signature of participant
- name and title of trainer, and
- date of training.

- SMD (GFN)-08, SMD (SI IP-1)-08, SMD (SI IP-2)-08, and SMD (SI IP-3)-08

Authority's Engineer. No work within the right of way shall begin until this approval has been granted.

[illegible]

FOCUS PROGRAM



MCI Outside Plant FOCUS

Fiber Optic Cable Uncovering System

- 1) The title of this program, **F.O.C.U.S.**, an acronym for **Fiber Optic Cable Uncovering System** was selected to remind everyone involved with working near MCT's active fiber optic systems to focus on protecting the facilities. If, during the course of the project, YOU notice any activity which may jeopardize the MCI OSP facilities, it is your duty to stop the work and re-FOCUS.
- 2) FOCUS rules must be followed on all MCI projects involving work on or near MCI OSP facilities. Safety is MCI's number one priority; everyone must refrain from unsafe and improper practices.
- 3) Review of FOCUS is mandatory at every Pre-bid, Pre-construction, site meeting and daily tailgate meeting. FOCUS discussion must include site-specific history, unique problems, facility configurations that may be encountered, and past errors. "Those who do not learn from history are doomed to repeat it". Do not let this happen to you.
- 4) Any work near or requiring handling of MCI Outside Plant facilities can only be performed with an MCI employee or contract representative present -- **THIS MEANS OUT OF HIS OR HER VEHICLE AND DIRECTLY MONITORING THE WORK**. The representative must have a properly operating cable locator checked for accuracy every day prior to commencement of work (comparison of line and depth readings to actual line and depth of the cable).
- 5) **Locate and Pothole Requirements.**
 - Prior to any excavation, the MCI employee or contract representative must verify the initial locate marks completed by MCI Operations. Do not trust locate results completed by others! The MCI or contract representative must locate the cable running line by making at least one pass in each direction. Locate results must then be compared with previous marks and the as-builts.
 - If the proposed work involves digging or excavating *within 3 feet* of the cable, the cable route will be marked continually with orange paint and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole (all potholes must be completed by hand digging or vacuum excavation) a minimum of every 15 ft., then expose the entire length of the cable by hand digging or vacuum excavation.
 - If the proposed work involves digging or excavating *within 5 feet (but not closer than 3 feet)* of the cable, the cable route will be marked continually with orange paint and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole the cable a minimum of every 15 ft.
 - If the proposed work involves digging or excavating *within 15 feet (but not closer than 5 feet)* of the cable, the cable route will be marked continually with orange paint and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole the cable a minimum of every 30 ft.
 - The cable will also be potholed at any change in the running line of more than 1 ft. in any direction, anytime the accuracy of the electronic locate is questioned, or the marked running line does not match the as-builts.
- 6) **Exposing Requirements.**
 - No mechanical excavation within 3 ft. of OSP facilities will be allowed unless the facilities have first been properly located, potholed, positively identified, continuously exposed by hand digging or vacuum excavation, and the facilities are clearly visible.
 - In addition, mechanical excavation within three feet of OSP facilities requires onsite prior approval from MCI's employee or contract representative.
- 7) Please refer to the latest edition of the MCI OSP Handbook for additional details. Know it and follow it.

Release 1.0



MCI Outside Plant Construction General Requirements

- All Federal, State and local safety regulations must be followed without exception.
- Personal protective equipment appropriate for the specific work site shall be used at all times. At a minimum, hard hat, safety shoes/steel toed boots and florescent orange or green work vest are required upon entering any MCI work site.
- Use of intoxicants, drugs, inhalants or any other substances that may impair alertness are strictly prohibited.
- Contractors are NOT allowed to cut any cable. Cables scheduled for removal will be cut by MCI Operations personnel, and only after verification that all traffic has been off-loaded.
- Extreme caution must be used at all times when working on or near active cables. An MCI employee or contract representative must approve and be present prior to and during all cable handling activities.
- Tools and equipment specifically designed for the job at hand are required. **USE THE PROPER TOOL FOR THE JOB.**
- Conduit work involving active cables requires specialized tools specifically designed to access ducts with active cables.
- Protecting MCI facilities is **EXTREMELY** important; however, **SAFETY** regarding yourself and others is the most important part of any project.

Release 1.0

[illegible]

SYMBOLS KEY

BURIED CABLE

AERIAL CABLE

SUBMARINE CABLE

FDGWIRE CABLE

DIRECT BURIED HDPE

PVC OR SPLIT PVC CONDUIT

BSP/GSP OR SPLIT BSP/GSP CONDUIT

STEEL CASING

REMOVE AND RESTORE ASPHALT OR CONCRETE
(WIDTH AS INDICATED)

CORE BORE

JACK AND BORE

DIRECTIONAL BORE

FUTURE CABLE

REMOVE CABLE

TO BE REMOVED OR ABANDONED
(SHOWN FOR HDPE)

AERIAL UTILITY (ELECTRIC)

UNDERGROUND UTILITY (TELEPHONE)

MAIN TRACKS

AUXILLARY TRACKS

CENTERLINE

RIGHT-OF-WAY

EDGE OF PAVEMENT

SIDEWALK

DITCH LINE

TAX DISTRICT

CITY, COUNTY OR STATE BOUNDARY LINE

PROPERTY LINE

FENCE LINE

GUARDRAIL

TOP OF SLOPE

TDE OF SLOPE

EXISTING

PROPOSED

STEEL MARKER AND SIGN-(A)
ALUMINUM "HUB"-STYLE MARKER-(B)
FLAT MARKER-(C)
TUBULAR MARKER-(D)
TUBULAR MARKER, & ISOLATOR PROTECTOR-(E)

MILE POST MARKER
NOTE:
DASHED = NOT FOUND IN FIELD

PERMIT TRACKING FORM IDENTIFIER

ROCK PROBE (DEPTH AS INDICATED)

UTILITY COVER DEPTH

HANDHOLE, MANHOLE OR PULLBOX

POLE

ANCHOR ONLY

GUY ONLY

OVERHEAD GUY (ARROW IN DIRECTION OF PULL)

ANCHOR AND GUY

SIDEWALK ANCHOR AND GUY

FOREIGN ANCHOR AND GUY

PUSH BRACE (EXISTING POLE)

ACCOUNT CODE CHANGE (BURIED TO AERIAL)

BOND AND GROUND

CULVERT (SIZE AS INDICATED)

BRIDGE

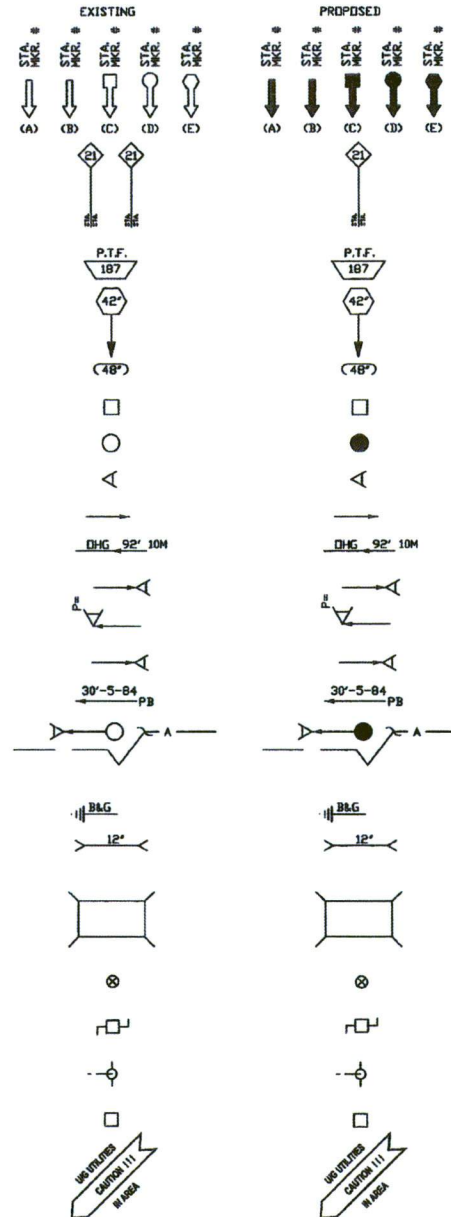
WATER METER

GAS VALVE

FIRE HYDRANT

RAILROAD SIGNAL CONTROL BOX

CAUTION NOTE



PROJECT: 1708ADZQ.040

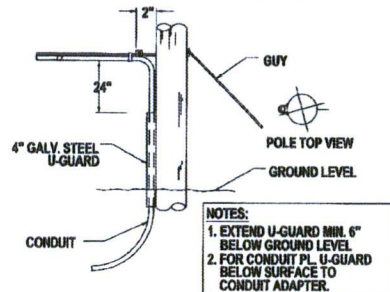
PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

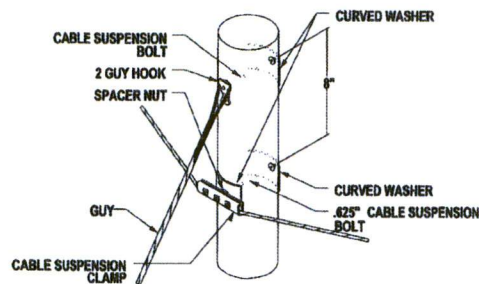
TYPICAL DETAIL "A"

POLE ARRANGEMENT FOR
AERIAL TO BURIED



TYPICAL DETAIL "D"

SUSPENSION STRAND - PULL TOWARD
POLE - LESS THAN 5 FEET



TYPICAL DETAIL "G"

JOINING 045 LASHING WIRE



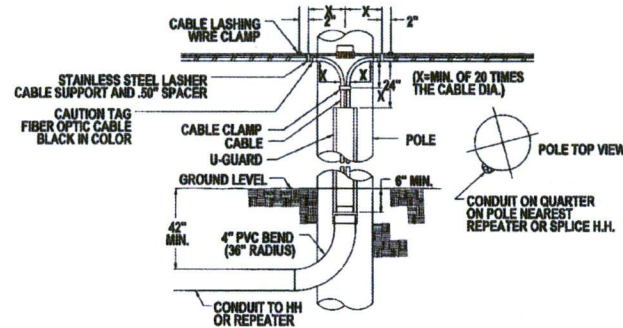
REMOVE ANY SLACK IN THE LASHING WIRE BY MAINTAINING A PULL ON THE WIRE AND TAPPING THE STRAND SHARPLY. THEN FORM THE WIRE OVER THE STUD AND TIGHTEN THE NUT. CUT THE FREE END OF THE LASHING WIRE OFF .75" BEYOND THE END OF THE CLAMP.

FORM THE LASHING WIRE AROUND THE STRAND AND PLACE IT BELOW THE STUD AND BETWEEN THE SECOND WASHER AND STUD SHOULDER.

TYPICAL AERIAL CONSTRUCTION DETAILS

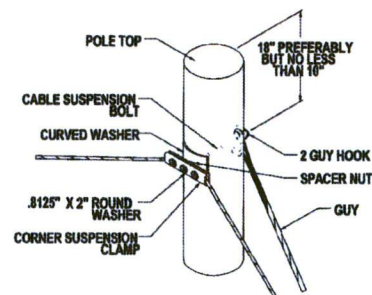
TYPICAL DETAIL "B"

POLE ARRANGEMENT FOR REPEATER
OR HANDHOLE LOCATION



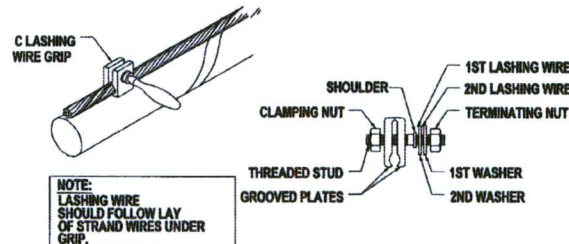
TYPICAL DETAIL "E"

SUSPENSION STRAND - PULL AWAY
FROM POLE - 5 FEET OR MORE



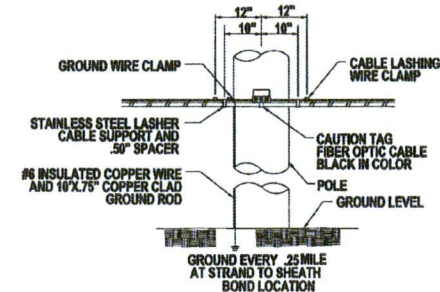
TYPICAL DETAIL "H"

LASHING WIRE GRIP AND CLAMP



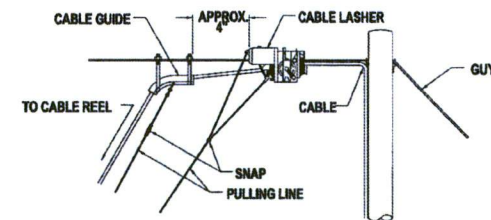
TYPICAL DETAIL "C"

TYPICAL CABLE & HARDWARE
INSTALLATION



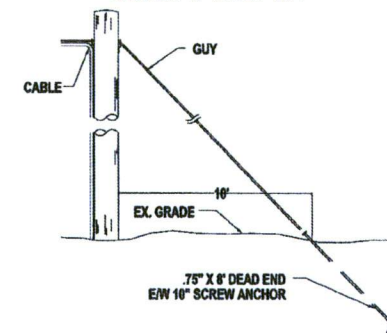
TYPICAL DETAIL "F"

TYPICAL ARRANGEMENT OF
CABLE LASHER AND CABLE GUIDE



TYPICAL DETAIL "I"

ANCHOR & DOWN GUY



PROJECT: 170BA020.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

DATE: 01/03/2018

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE DESCRIPTION INITIAL

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SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

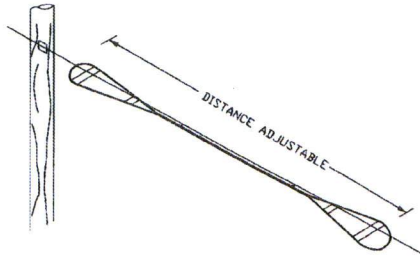
SHEET 08 OF 03

FILE: 170BA020.040-09AC BEL DWG

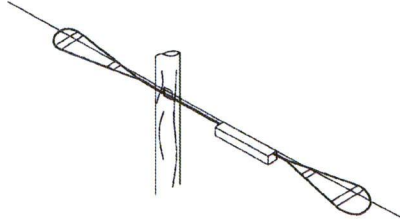
TYPICAL AERIAL CONSTRUCTION DETAILS (CONT.)
TYPICAL AERIAL IN-LINE SLACK STORAGE DETAILS

TYPICAL DETAIL "A"

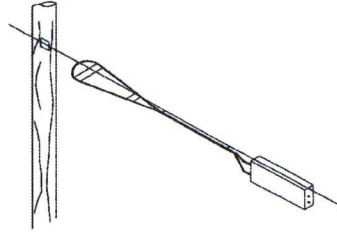
RESERVE CABLE LENGTH
STRAND STORAGE APPLICATION



TYPICAL DETAIL "B"
IN-LINE SPLICE APPLICATION

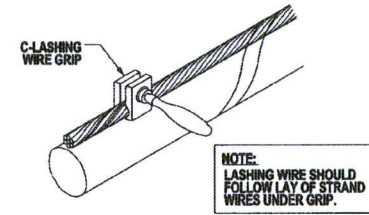


TYPICAL DETAIL "C"
BUTT SPLICE APPLICATION



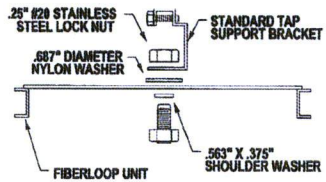
TYPICAL DETAIL "D"

LASHING WIRE GRIP AND CLAMP C-LASHING
WIRE GRIP INSTALLED ON STRAND



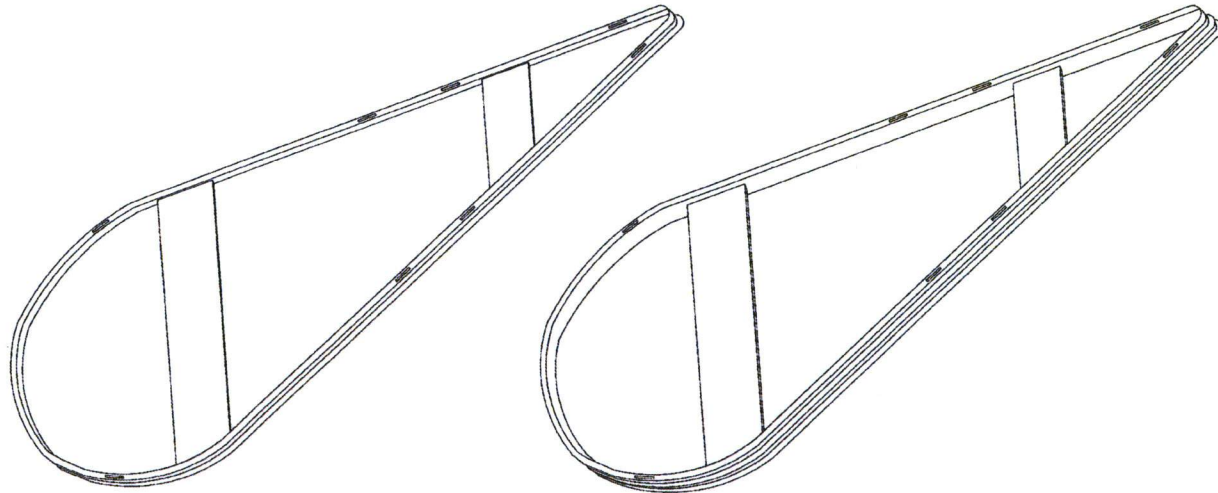
TYPICAL DETAIL "E"

HARDWARE KIT



TYPICAL DETAIL "F"

SINGLE & DOUBLE FIBER LOOPS



PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
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MCInetno
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX. 77450
OUTSIDE PLANT - PLAN

DATE: 01/03/2018

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
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SCALE

HORIZONTAL:	NTS
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VERTICAL: NTS

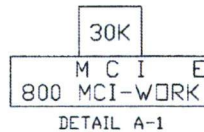
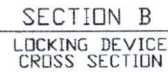
MP _____ TO MP _____

SHEET 09 OF 83

FILE: 1708AGZQ, 040-09AC, BEL, DNG

DETAIL "A"

EXPLODED ISOMETRIC DETAIL



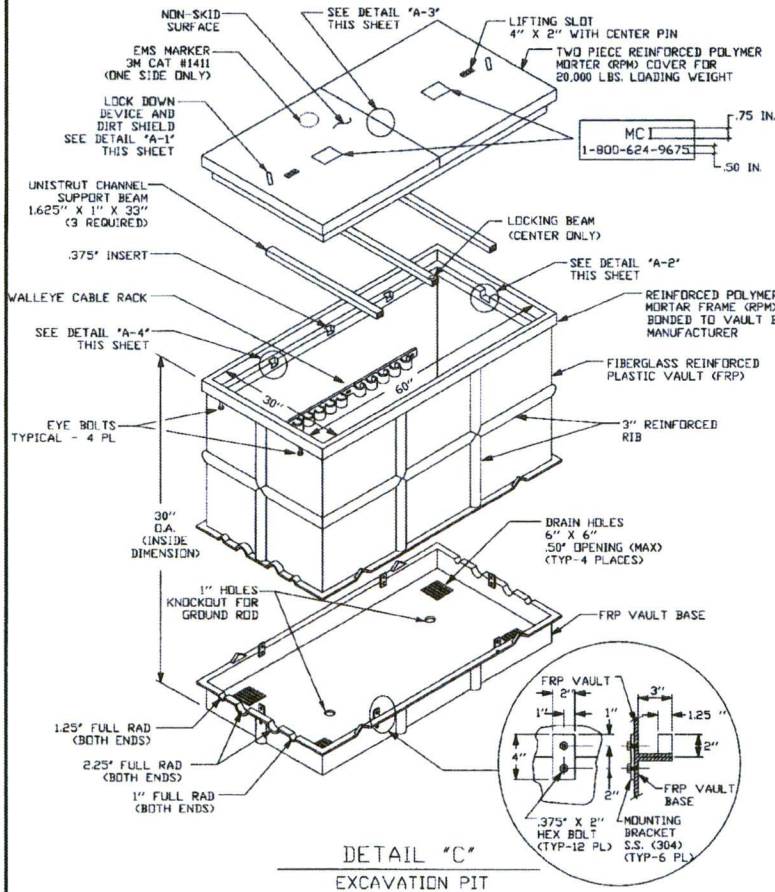
30K
M C I
800 MCI-WORK
DETAIL A-2

[illegible]

2.5' x 5' x 2.5' SPLIT HANDHOLE DETAILS

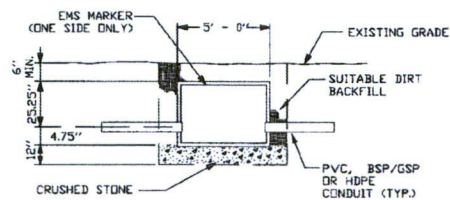
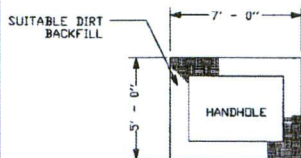
DETAIL "A"

DESCRIPTION



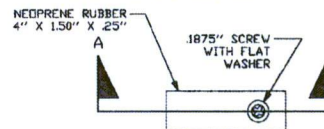
PLAN

PROFILE



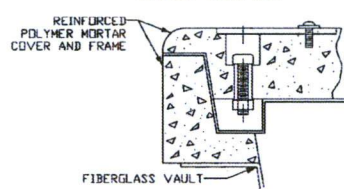
DETAIL "A-1"

LOCK DOWN DEVICE



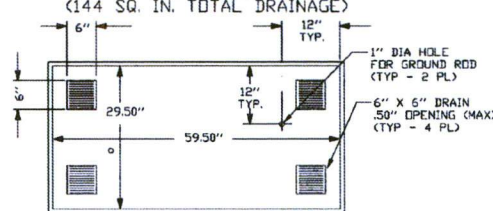
SECTION A-A

LOCKING DEVICE CROSS SECTION



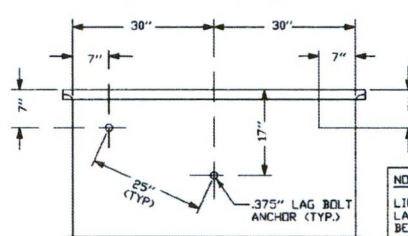
DETAIL "B"

VAULT BOTTOM PLAN VIEW



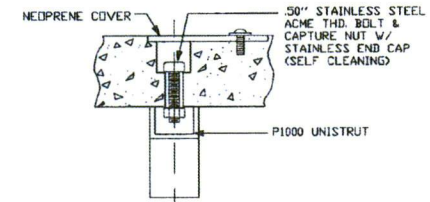
DETAIL "D"

SIDE WALL VIEW INSIDE LOOKING OUT



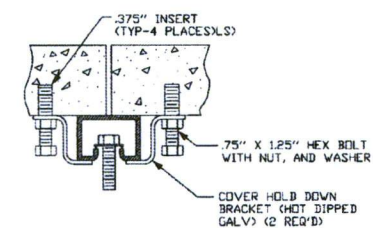
DETAIL "A-2"

ENGAGED LOCK DOWN DEVICE



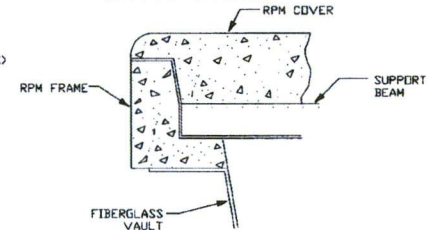
DETAIL "A-3"

COVER HOLD DOWN BRACKET OF 2-PIECE RPM COVER



DETAIL "A-4"

SUPPORT BEAM INSTALLATION (TYP. AT 6 PLACES)



NOTES:

1. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
2. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 12" OF CRUSHED STONE (.75" GRADE).
3. SHORING WILL BE REQUIRED.
4. ALL HANDHOLES SHALL BE PLACED BELOW EXISTING GRADE.
5. THIS HANDHOLE IS OF FIBERGLASS MATERIAL, APPROXIMATELY 100 POUNDS IN WEIGHT. THE LIDS ARE POLYMER CONCRETE MATERIAL, EACH APPROXIMATELY 10 POUNDS.

NOTE:

LINEAR DISTANCE BETWEEN LAG BOLT ANCHORS MUST BE 25".

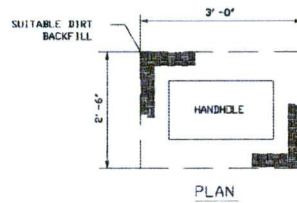
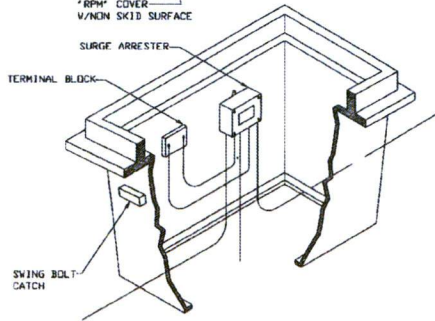
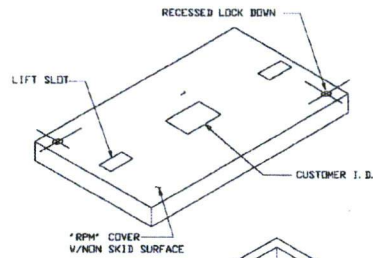
PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

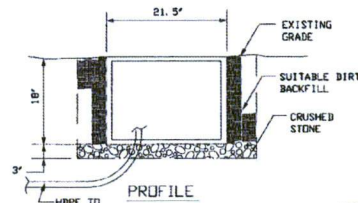
CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

SURGE ARRESTER HANDHOLE DETAIL

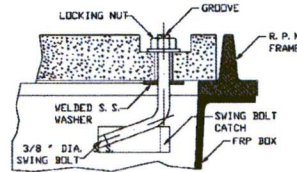
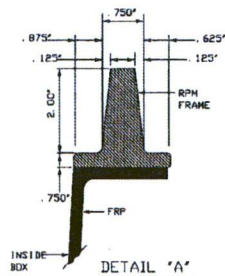


TYPICAL SURGE ARRESTER HANDHOLE

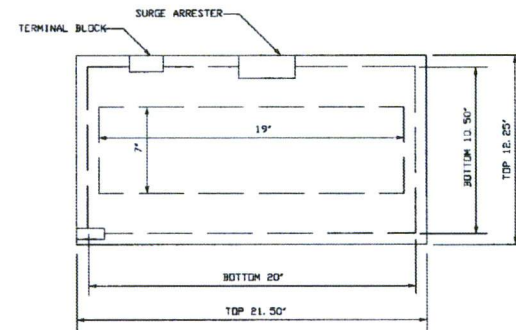


NOTES:

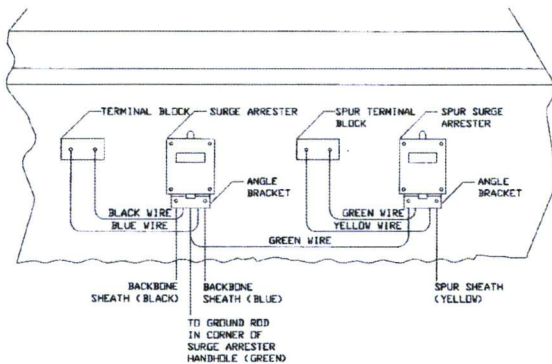
1. VOID IN AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
2. SURGE ARRESTER HANDHOLE TO BE PLACED ON 3" OF CRUSHED STONE (3/4" GRADE).
3. ALL SURGE ARRESTER HANDHOLES SHALL BE SURFACE MOUNTED.
4. SURGE ARRESTER, TERMINAL BLOCK, AND WIRE HARNESS WILL BE MOUNTED BY THE FACTORY.



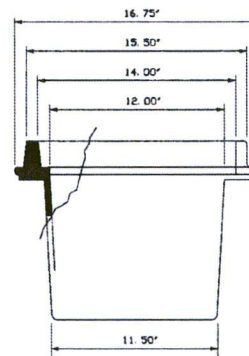
LOCKING DETAIL



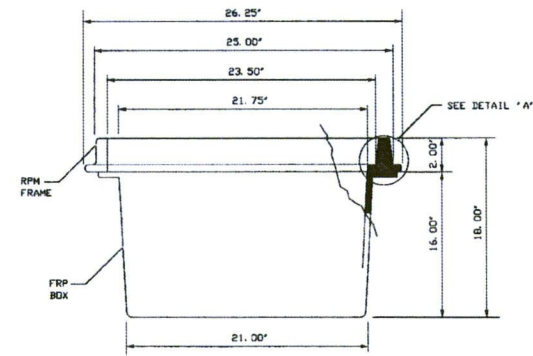
TOP VIEW



SPUR CONFIGURATION DETAIL



END VIEW



SIDE VIEW

PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

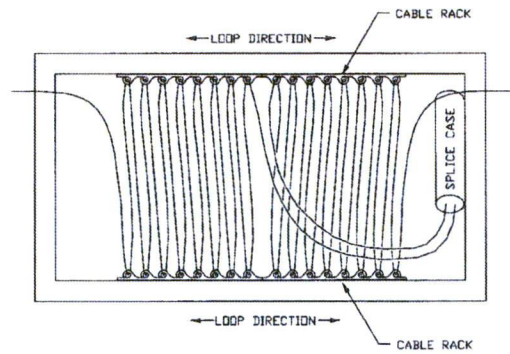
CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

HANDHOLE SLACK STORAGE DETAILS

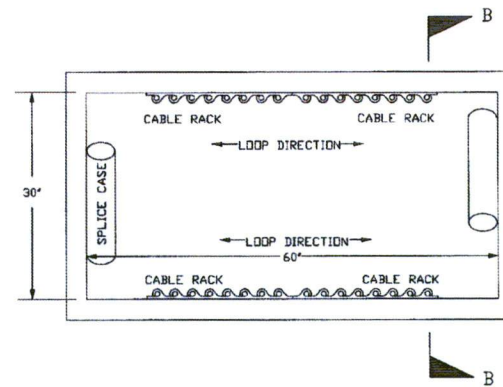
DETAIL "A"

CABLE SLACK ARRANGEMENT

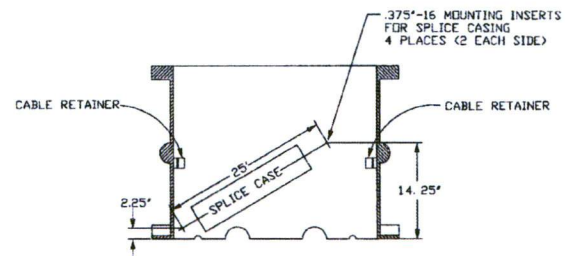


DETAIL "B"

HANDHOLE LAYOUT



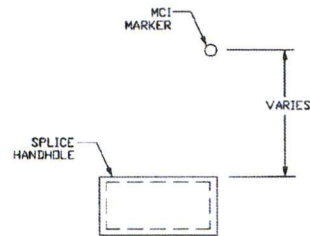
SECTION B-B

[illegible]

CABLE GROUNDING INSTALLATION DETAILS (FOR CONTRACTOR INSTALLATION)

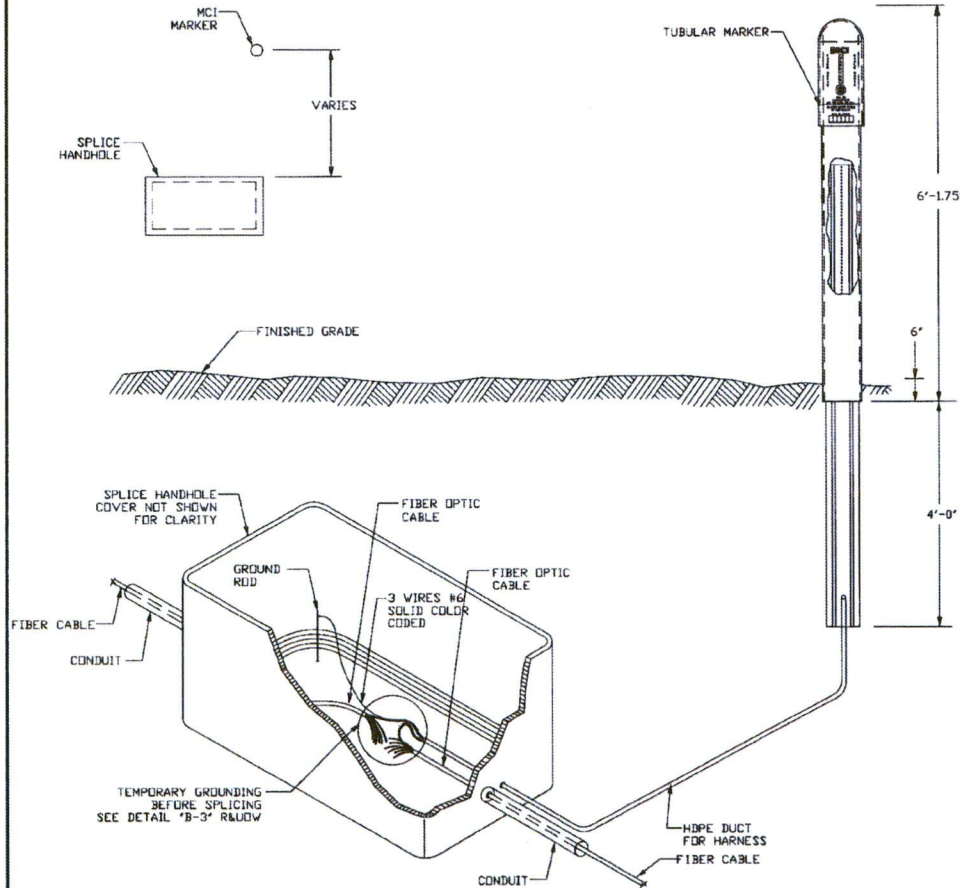
DETAIL "A"

PLAN VIEW



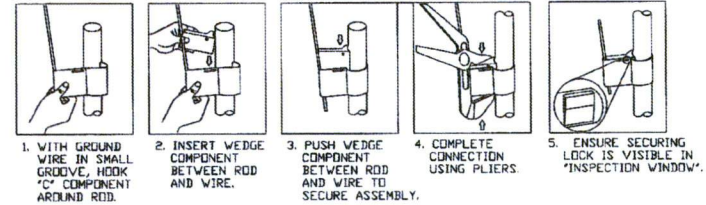
DETAIL "B"

INSTALLATION DETAIL



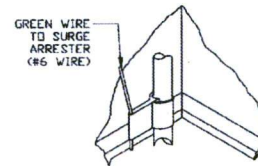
DETAIL "B-1"

C-LOK GROUND ROD
INSTALLATION METHOD



DETAIL "B-2"

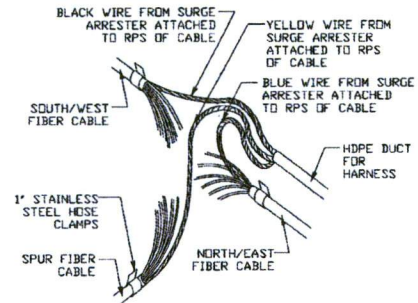
C-LOK CONNECTOR



NOTE:
SEE DETAIL "B-1" THIS
SHEET FOR INSTALLATION
METHOD.

DETAIL "B-3"

TEMPORARY GROUNDING
(INCLUDING SPUR CABLE)



NOTES:

- OSP CONTRACTOR SHALL INSTALL THE FOLLOWING MCI FURNISHED MATERIALS:
 - 6" TUBULAR MARKER WITH HARDWARE (1)
 - SPLICE HANDHOLE
 - GROUND ROD AND FIGURE 8 CONNECTOR
 - PULL WIRE HARNESS FROM HANDHOLE TO MARKER
- THE CONTRACTOR WILL FURNISH AND INSTALL THE HOPE, LENGTH AS REQUIRED PER THE DRAWINGS SUPPLIED.
- ALL MCI AND CONTRACTOR FURNISHED MATERIALS SHALL BE IN PLACE PRIOR TO PLACEMENT OF THE FIBER OPTIC CABLE, AT WHICH TIME THE TEMPORARY GROUND CONNECTION WILL BE MADE IN ACCORDANCE WITH DETAIL "A".
- AFTER CONNECTION OF THE TEMPORARY GROUND, THE CONTRACTOR SHALL SEAL THE ENDS OF THE FIBER OPTIC CABLE TO PREVENT THE ENTRY OF MOISTURE.
- AFTER INSTALLATION OF THE FIBER OPTIC CABLE AND WIRING HARNESS BY THE CONTRACTOR, THE CONTRACTOR SHALL SEAL ALL DUCT LINE OPENINGS WITH MCI APPROVED MATERIAL TO PREVENT THE ENTRY OF MOISTURE.
- MARKER AND HANDHOLE SHOULD BE PLACED IN LINE WITH THE NORTHERN CORNER OF THE SPICE HANDHOLE FOR NORTH/SOUTH ROUTES, THE EASTERN CORNER OF THE SPICE HANDHOLE FOR EAST/WEST ROUTES.

PROJECT: 1708A020.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE TO FIBER
OUTSIDE PLANT - PLAN

DATE: 01/03/2018

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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SCALE

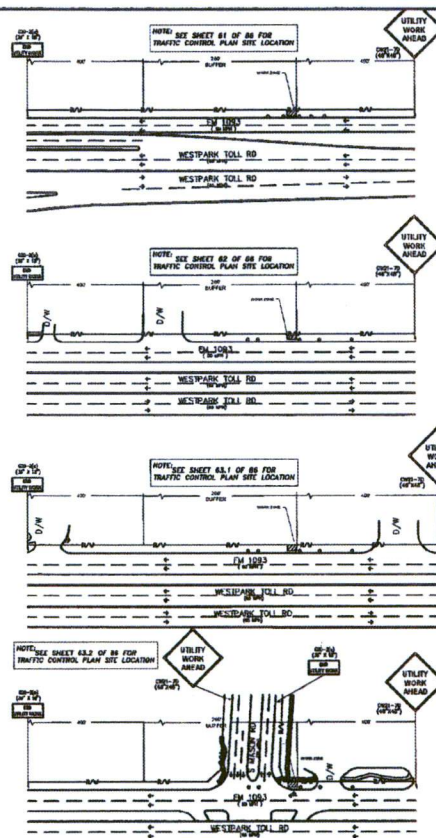
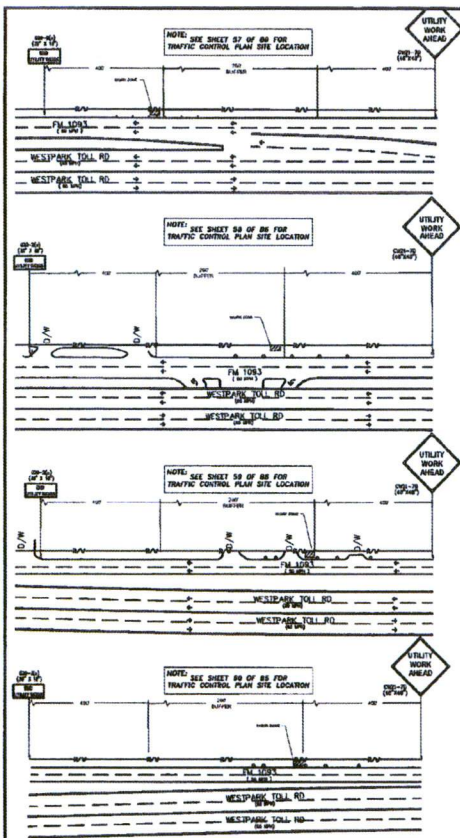
HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

SHEET 15 OF 83

FILE: 1708A020.040-15AC.BEL.DWG



NOTE:
MOBILE WORK BEYOND SHOULDER ALONG FM-1093.

NOTE:
ALL DRIVEWAYS TO REMAIN OPEN AT ALL TIMES.

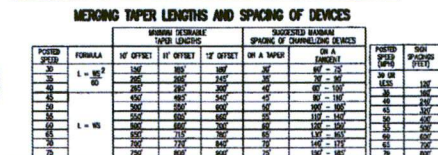
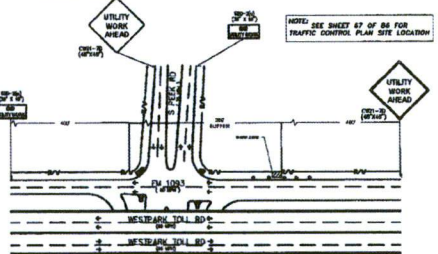
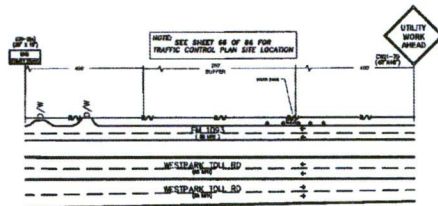
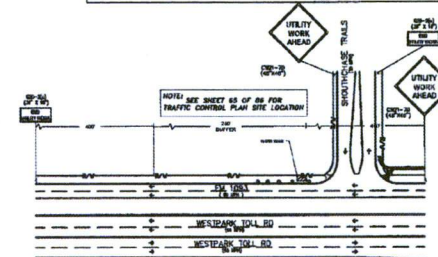
NOTE:
SUBJECT TO NO PAVEMENT EXCAVATION.
CONTRACTOR RESPONSIBLE TO KEEP SIDEWALK AREAS OPEN AT ALL TIMES DURING CONSTRUCTION.

NOTE:
NO LANE CLOSURES PERMITTED DURING PEAK HOURS
WITHOUT AUTHORIZATION FROM THE AUTHORITY.
PEAK HOURS ARE WEEKDAYS FROM 5AM TO 9AM, AND 3PM TO 7PM.
NO LANE CLOSURE ON HOLIDAY OR HOLIDAY WEEKENDS.

LEGEND

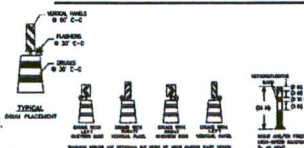
	WORK ZONE
	PLASTIC DRUM
	TRAFFIC CONSTRUCTION SIGNS
	TYPE III BARRICADE
	LAW OFFICER
	FLAGGER
	FLASHING ARROW PANEL
	DIRECTION OF TRAFFIC FLOW

PROJECT: 1708AD2Q.040	
PECAN GROVE TO CINCO RANCH	
CINCO RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY



SPACING FOR CHANNELIZING DEVICES

- A - PLASTIC DRUMS ON MERGING TAPER AT 30' C-C WITH CHEVRON SIGNS AT 60' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- B - PLASTIC DRUMS ON DOWN STREAM TAPER AT 35' C-C.
- C - PLASTIC DRUMS ON RADI AT 5' C-C.
- D - PLASTIC DRUMS ON TANGENT @ 35' C-C WITH VERTICAL PANEL AT 70' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- E - PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE AT 20' C-C WITH VERTICAL PANEL AT 40' C-C AND TYPE "A" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- F - CONCRETE TRAFFIC BARRIER (C.T.B.) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (L.P.C.T.B.) WITH REFLECTORS AT 10' C-C IF PAVEMENT DROP IS MORE THAN TWELVE INCHES (12") OR MORE.
- G - PLASTIC DRUM WITH GUARD RAIL MOUNTED.
- H - 28" TUBULAR MARKERS:
 - a) 4-LANE TO 2-LANE UNDIVIDED ROADWAY SECTIONS AT 20' C-C.
 - b) 4-LANE DIVIDED ROADWAY TO ONE SIDE TWO-WAY ROAD AT 20' C-C.
 - c) LEFT LANE, RIGHT LANE STORAGE BAYS AT 15' C-C.



MERGING TAPER LENGTHS AND SPACING OF DEVICES

POSTED SPEED	FORMULA	MINIMUM TAPERABLE APPROACH LENGTHS				SUGGESTED BARRIAN APPROACH LENGTHS				POSTED SPEED	FORMULA
		10' OFFSET	15' OFFSET	20' OFFSET	ON A TAPER	10' OFFSET	15' OFFSET	20' OFFSET	ON A TAPER		
30	L = 8S	150'	225'	300'	30'	150'	225'	300'	20	L = 8S	
35		165'	248'	330'	33'	165'	248'	330'	25		
40		180'	270'	360'	36'	180'	270'	360'	30		
45		195'	293'	390'	39'	195'	293'	390'	35		
50	L = 8S	210'	315'	420'	42'	210'	315'	420'	40	L = 8S	
55		225'	338'	450'	45'	225'	338'	450'	45		
60		240'	360'	480'	48'	240'	360'	480'	50		
65		255'	383'	510'	51'	255'	383'	510'	55		
70	L = 8S	270'	405'	540'	54'	270'	405'	540'	60	L = 8S	
75		285'	428'	570'	57'	285'	428'	570'	65		
80		300'	450'	600'	60'	300'	450'	600'	70		
85		315'	473'	630'	63'	315'	473'	630'	75		
90	L = 8S	330'	495'	660'	66'	330'	495'	660'	80	L = 8S	
95		345'	518'	690'	69'	345'	518'	690'	85		
100		360'	540'	720'	72'	360'	540'	720'	90		
105		375'	563'	750'	75'	375'	563'	750'	95		

LONGITUDINAL BUFFER SPACE

SPEED (MPH)	LENGTH (FEET)	
	MINIMUM	RECOMMENDED
20	11	25
30	17	38
40	23	51
50	29	64
60	35	77
70	41	90
80	47	103
90	53	116
100	59	129
110	65	142
120	71	155
130	77	168
140	83	181
150	89	194

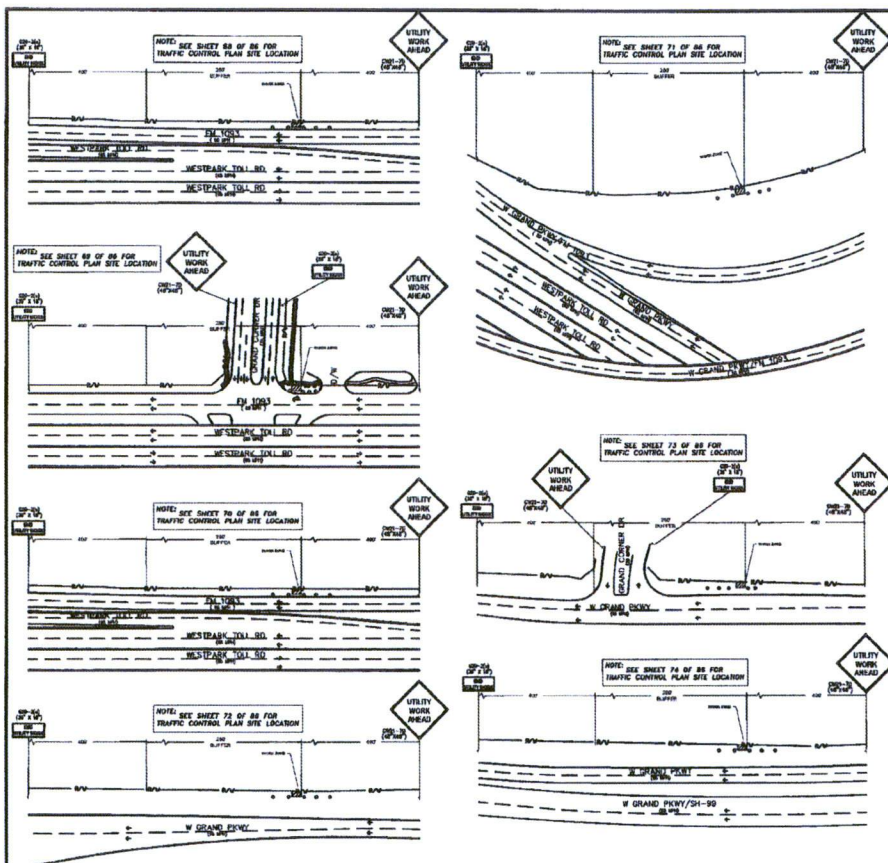
DATE: 01/03/2018
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND SPECIFICATIONS SHALL BE THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LANDSCAPE.

SCALE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'
MP TO MP
SHEET TCP OF 83
FILE: 1708AD2Q.040-TCPAC BEL.DWG



NOTE:
MOBILE WORK BEYOND SHOULDER ALONG FM-1093.

NOTE:
ALL DRIVEWAYS TO REMAIN OPEN AT ALL TIMES.

NOTE:
SUBJECT TO NO PAVEMENT EXCAVATION.
CONTRACTOR RESPONSIBLE TO KEEP SIDEWALK AREAS OPEN AT ALL TIMES DURING CONSTRUCTION.

NOTE:
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WITHOUT AUTHORIZATION FROM THE AUTHORITY.
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NO LANE CLOSURE ON HOLIDAY OR HOLIDAY WEEKENDS.

LEGEND

[Symbol]	WORK ZONE
[Symbol]	PLASTIC DRUM
[Symbol]	TRAFFIC CONSTRUCTION SIGNS
[Symbol]	TYPE III BARRICADE
[Symbol]	LAW OFFICER
[Symbol]	FLAGGER
[Symbol]	FLASHING ARROW PANEL
[Symbol]	DIRECTION OF TRAFFIC FLOW

PROJECT: 1708A02Q.040
PECAN GROVE TO CINCID RANCH
CINCID RANCH CELL SITE
CLARIFICATION NO. QUANTITY

ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCID RANCH
CINCID RANCH CELL SITE, TX 77060
OUTSIDE PLANT - PLAN

DATE: 01/03/2018
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

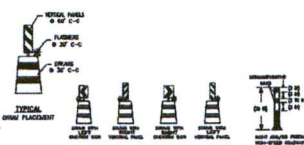
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SCALE

HORIZONTAL: NTS
VERTICAL: NTS
MP TO MP
SHEET .TCP OF 83
FILE: 1708A02Q.040 - .TCPAC BEL.DWG

SPACING FOR CHANNELIZING DEVICES

- A - PLASTIC DRUMS ON MERGING TAPER AT 30' C-C WITH CHEVRON SIGNS AT 60' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- B - PLASTIC DRUMS ON DOWN STREAM TAPER AT 35' C-C.
- C - PLASTIC DRUMS ON RADII AT 5' C-C.
- D - PLASTIC DRUMS ON TANGENT @ 35' C-C WITH VERTICAL PANEL AT 70' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- E - PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE AT 20' C-C WITH VERTICAL PANEL AT 40' C-C AND TYPE "A" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- F - CONCRETE TRAFFIC BARRIER (C.T.B.) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (L.P.C.T.B.) WITH REFLECTORS AT 10' C-C IF PAVEMENT DROP IS MORE THAN TWELVE INCHES (12") OR MORE.
- G - PLASTIC DRUM WITH GUARD RAIL MOUNTED.
- H - 28" TUBULAR MARKERS:
 - a) 4-LANE TO 2-LANE UNDIVIDED ROADWAY SECTIONS AT 20' C-C.
 - b) 4-LANE DIVIDED ROADWAY TO ONE SIDE TWO-WAY ROAD AT 20' C-C.
 - c) LEFT LANE, RIGHT LANE STORAGE BAYS AT 15' C-C.



MERGING TAPER LENGTHS AND SPACING OF DEVICES

POSTED SPEED	FORMULA	MINIMUM REQUIRED TAPER LENGTHS		SPACING OF CHANNELIZING DEVICES		POSTED SPEED	MIN. TAPER LENGTH (FEET)	MIN. SPACING (FEET)
		15' OFFSET	15' OFFSET	ON A TAPER	ON A TAPER			
25	$L = 300 \frac{V}{S}$	150'	150'	30'	30'	25	150'	30'
30	$L = 300 \frac{V}{S}$	180'	180'	30'	30'	30	180'	30'
35	$L = 300 \frac{V}{S}$	210'	210'	30'	30'	35	210'	30'
40	$L = 300 \frac{V}{S}$	240'	240'	30'	30'	40	240'	30'
45	$L = 300 \frac{V}{S}$	270'	270'	30'	30'	45	270'	30'
50	$L = 300 \frac{V}{S}$	300'	300'	30'	30'	50	300'	30'
55	$L = 300 \frac{V}{S}$	330'	330'	30'	30'	55	330'	30'
60	$L = 300 \frac{V}{S}$	360'	360'	30'	30'	60	360'	30'
65	$L = 300 \frac{V}{S}$	390'	390'	30'	30'	65	390'	30'
70	$L = 300 \frac{V}{S}$	420'	420'	30'	30'	70	420'	30'
75	$L = 300 \frac{V}{S}$	450'	450'	30'	30'	75	450'	30'

LONGITUDINAL BUFFER SPACE

POSTED SPEED	MINIMUM BUFFER SPACE (FEET)	MINIMUM BUFFER SPACE (FEET)
25	11	33
30	17	51
35	23	69
40	29	87
45	35	105
50	41	123
55	47	141
60	53	159
65	59	177
70	65	195
75	71	213

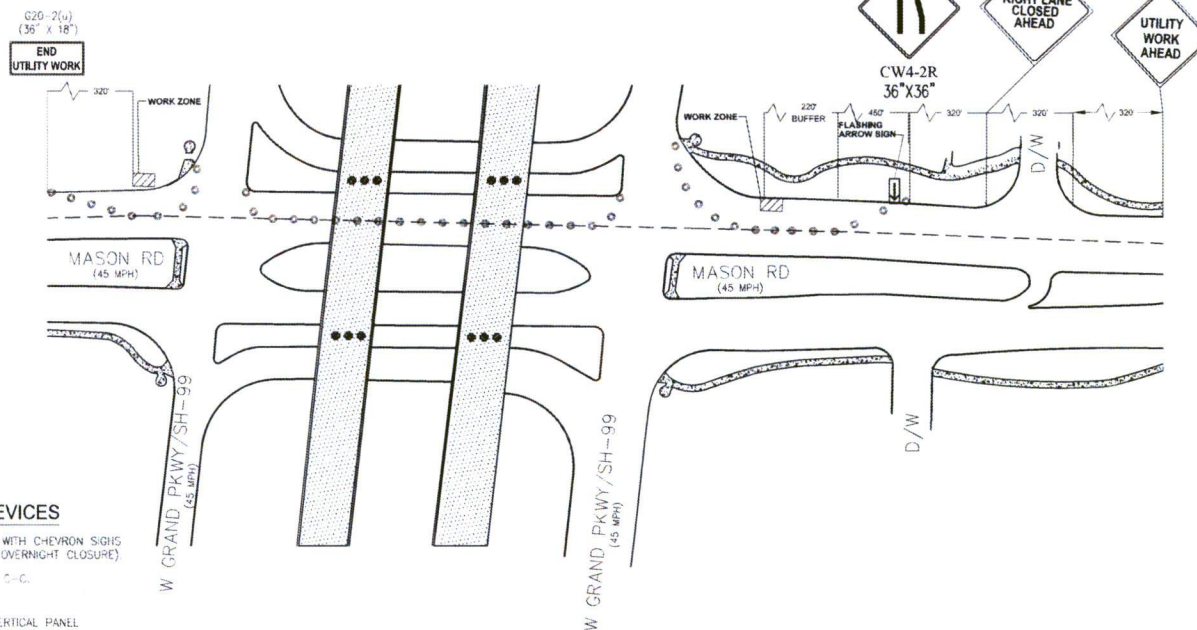
NOTE:
ALL DRIVEWAYS TO REMAIN OPEN AT ALL TIMES.

NOTE:
SUBJECT TO NO PAVEMENT EXCAVATION.
CONTRACTOR RESPONSIBLE TO KEEP SIDEWALK AREAS
OPEN AT ALL TIMES DURING CONSTRUCTION.

NOTE:
NO LANE CLOSURES PERMITTED DURING PEAK HOURS
WITHOUT AUTHORIZATION FROM THE AUTHORITY.
PEAK HOURS ARE WEEKDAYS FROM 5AM TO 9AM AND 3PM TO 7PM.
NO LANE CLOSURE ON HOLIDAY OR HOLIDAY WEEKENDS.

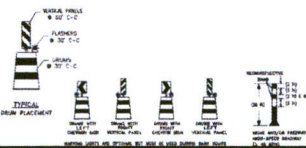


LEGEND	
	WORK ZONE
	PLASTIC DRUM
	TRAFFIC CONSTRUCTION SIGNS
	TYPE III BARRICADE
	LAW OFFICER
	FLAGGER
	FLASHING ARROW PANEL
	DIRECTION OF TRAFFIC FLOW



SPACING FOR CHANNELIZING DEVICES

- A - PLASTIC DRUMS ON MERGING TAPER AT 30' C-C WITH CHEVRON SIGNS AT 60' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- B - PLASTIC DRUMS ON DOWN STREAM TAPER AT 35' C-C.
- C - PLASTIC DRUMS ON RADI AT 5' C-C.
- D - PLASTIC DRUMS ON TANGENT @ 35' C-C WITH VERTICAL PANEL AT 70' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- E - PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE AT 20' C-C WITH VERTICAL PANEL AT 40' C-C AND TYPE "A" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- F - CONCRETE TRAFFIC BARRIER (C.T.B.) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (L.P.C.T.B.) WITH REFLECTORS AT 10' C-C IF PAYMENT DROP IS MORE THAN TWELVE INCHES (12") OR MORE.
- G - PLASTIC DRUM WITH GUARD RAIL MOUNTED.
- H - 28" TUBULAR MARKERS:
 - a) 4-LANE TO 2-LANE UNDIVIDED ROADWAY SECTIONS AT 20' C-C
 - b) 4-LANE DIVIDED ROADWAY TO ONE SIDE TWO-WAY ROAD AT 20' C-C.
 - c) LEFT LANE, RIGHT LANE STORAGE BAYS AT 15' C-C.



MERGING TAPER LENGTHS AND SPACING OF DEVICES

POSTED SPEED	FORMULA	MINIMUM DESIRABLE TAPER LENGTHS		SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES		POSTED SPEED	SIGN SPACING (FEET)
		1/2 OFFSET	1/2 OFFSET	ON A TAPER	ON A TANGENT		
30	L = WS ²	150'	180'	30'	45' - 75'	30	150'
35		200'	240'	35'	50' - 85'	35	175'
40		280'	330'	40'	60' - 100'	40	200'
45		350'	420'	45'	70' - 110'	45	225'
50		420'	510'	50'	80' - 120'	50	250'
55		500'	600'	55'	90' - 130'	55	275'
60		580'	690'	60'	100' - 140'	60	300'
65		660'	780'	65'	110' - 150'	65	325'
70		740'	870'	70'	120' - 160'	70	350'
75		820'	960'	75'	130' - 170'	75	375'

LONGITUDINAL BUFFER SPACE

SPEED (MPH)	LENGTH (FEET)	LENGTH (FEET)
25	15	35
30	17	35
35	20	40
40	25	50
45	30	60
50	35	70
55	40	80
60	45	90
65	50	100
70	55	110
75	60	120

PROJECT: 1708ADZG 040

PECAN GROVE TO CINED RANCH

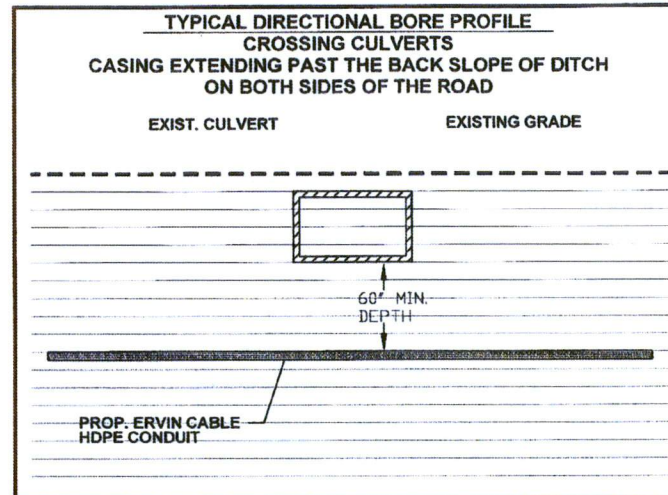
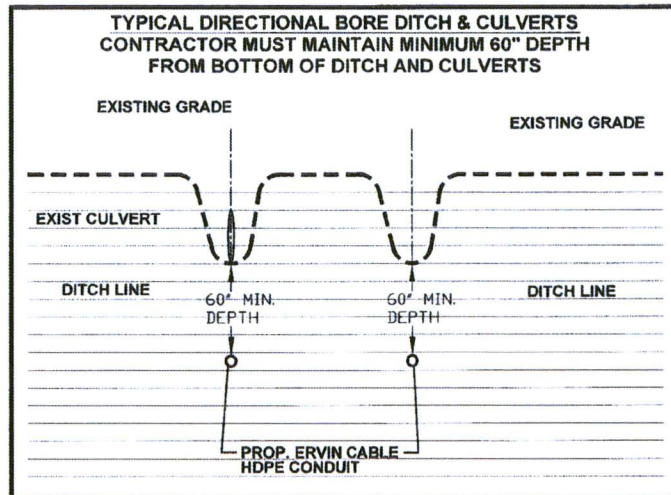
CINED RANCH CELL SITE

CLARIFICATION NO. QUANTITY

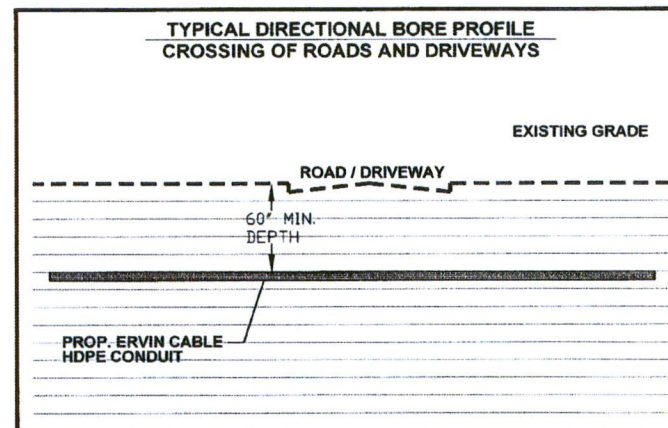
NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

TYPICAL CONSTRUCTION DETAILS



THE ELEVATION IS APPROX. & THE CONTRACTOR WILL NEED TO
POTHOLE AND LOCATE THE UTILITY BEFORE CONSTRUCTION



THE ELEVATION IS APPROX. & THE CONTRACTOR WILL NEED TO
POTHOLE AND LOCATE THE UTILITY BEFORE CONSTRUCTION

PROJECT: 1708AQZQ.040

PECAN GROVE TO CINCINNATI

CINCINNATI CELL SITE

CLARIFICATION NO. QUANTITY

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 19 TO MATCH SURVEY STA. 5+20



PROJECT: 1708AOZQ.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6H STRAND	410'
LASH 1-B64F CABLE	410'

McMetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
FROM PECAN GROVE TO CINCO RANCH
CELL SITE # 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE REVISIONS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF THE TRANSMISSION SERVICES CORP. AND SHALL BE ISSUED IN WRITING. CONFERENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'
VERTICAL: 1"=100'

MP TO MP

SHEET 18 OF 86

FILE: 1708AOZQ.040-18AC.BFL.DWG

SITE NAME: PECAN GROVE
SITE NUMBER: 192842
11750 MASON RD
RICHMOND, TX. 77406

RICHMOND FIRE DEPARTMENT
3818 AVENUE H
RICHMOND, TX 77471

STA 3+81 EXIST. CNP POLE RUNK
28' O/S LT BOC
POWER = 31'-0"
COMM 1= 28'-1"
COMM 2= 21'-10"
COMM 3= 20'-8"
PROP. ATT HEIGHT = 19'-8"

STA 3+41 EXIST. CNP POLE RUNK
24' O/S LT BOC
POWER = 31'-0"
COMM 1= 21'-8"
COMM 2= 20'-5"
COMM 3= 19'-11"
COMM 4= 18'-10"
PROP. ATT HEIGHT = 17'-10"

STA 1+10 EXIST. CNP POLE RUNK
20' O/S LT BOC
POWER = 31'-0"
COMM 1= 23'-2"
COMM 2= 22'-2" PROP. ATT HEIGHT = 21'-8"
PROP. 1-2" STAND OFF RISER = 21'-8"
PROP. DOWN GUY & ANCHOR = 15'-0"/21'-8"

STA 1+00 EXIST. MCIM FH & MKR
PLACE 75' SLACK COR.

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR
IT IS YOUR RESPONSIBILITY TO CALL THE T&D INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT KINDER MORGAN TEXAS GAS PIPELINE AT 800-633-0184 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS AT EACH FH LOCATION

SEE VZB PROJECT# 1708AOZQ.039
READING TO PECAN GROVE
SHEET 48 OF 48 FOR FIBER ROUTE
CONTINUATION AND BACKBONE TIE-IN

NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION. NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

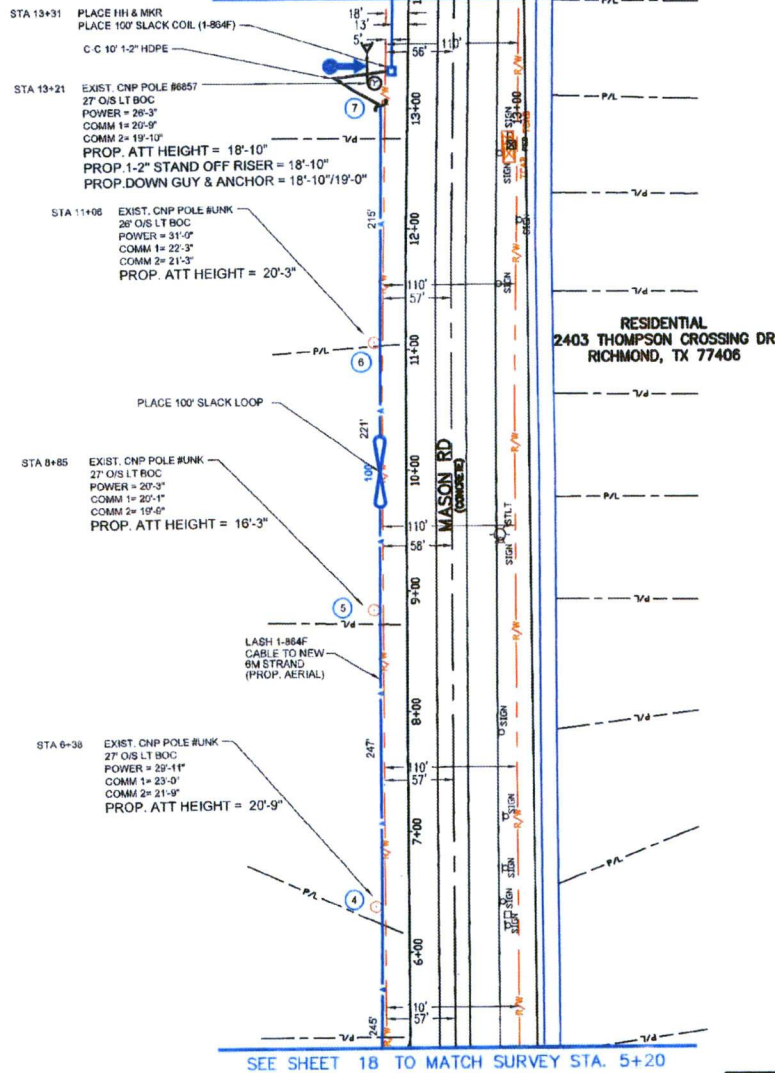
NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELETRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 20 TO MATCH SURVEY STA. 13+92



SEE SHEET 18 TO MATCH SURVEY STA. 5+20

RESIDENTIAL
2403 THOMPSON CROSSING DR
RICHMOND, TX 77406

MASON RD
(CONCRETE)

SEE PROFILE
SHEET #19.1

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TXDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT KINDER MORGAN
TEXAS GAS PIPELINE AT 800-833-6184 TO VERIFY IF GAS
LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR TO MAINTAIN 60\"/>

NOTE:
PROP. 4\"/>

CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELETRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708A02Q.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	71'
PULL 1-864F CABLE	171'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6N STRAND	801'
LASH 1-864F CABLE	901'

NCT COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS NOT IN OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF NCT
COMMUNICATIONS SERVICES, INC. WITH ALL
RIGHTS RESERVED. NO PART OF THESE DRAWINGS
SHALL BE REPRODUCED OR TRANSMITTED IN ANY
FORM OR BY ANY MEANS, WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1\"/>

VERTICAL: 1\"/>

MP TO MP

SHEET 19 OF 86

FILE: 1708A02Q.040-19A. BEL. DWG

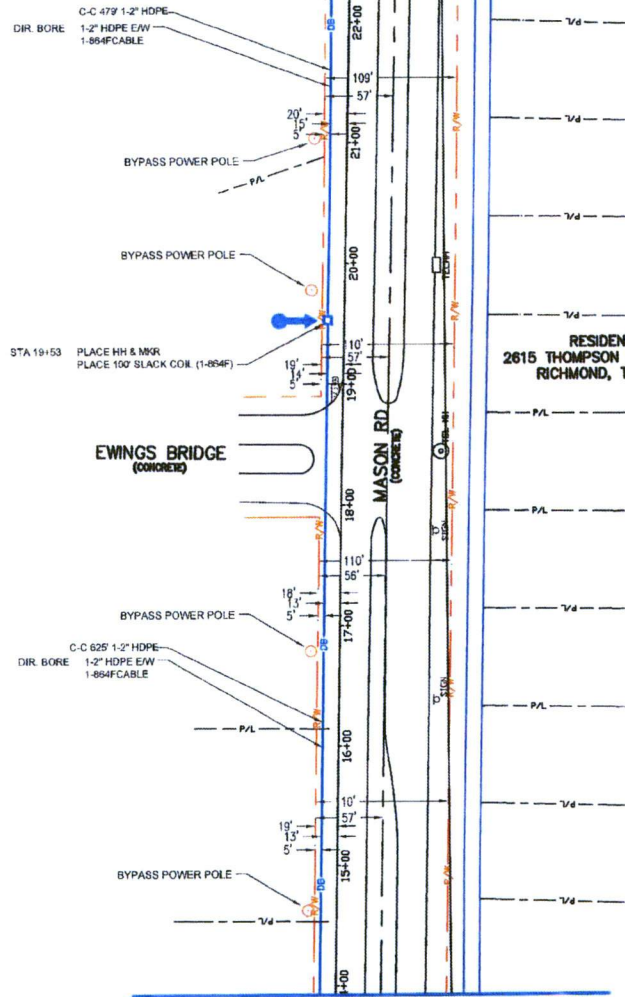
NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16\"/>

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 21 TO MATCH SURVEY STA. 22+65



RESIDENTIAL
2615 THOMPSON CROSSING DR
RICHMOND, TX 77406

SEE SHEET 19 TO MATCH SURVEY STA. 13+92

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POTHOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT KINDER MORGAN
TEXAS GAS PIPELINE AT 800-833-0184 TO VERIFY IF GAS
LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

SEE PROFILE
SHEET #20.1



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4543
48 HOURS NOTICE REQUIRED



PROJECT: 1708ADZQ.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	585'
PULL 1-864F CABLE	685'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6M STRAND	288'
LASH 1-864F CABLE	388'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-
-	-	-
-	-	-
-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
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COMMUNICATIONS SERVICES CORP. AND SHALL
NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

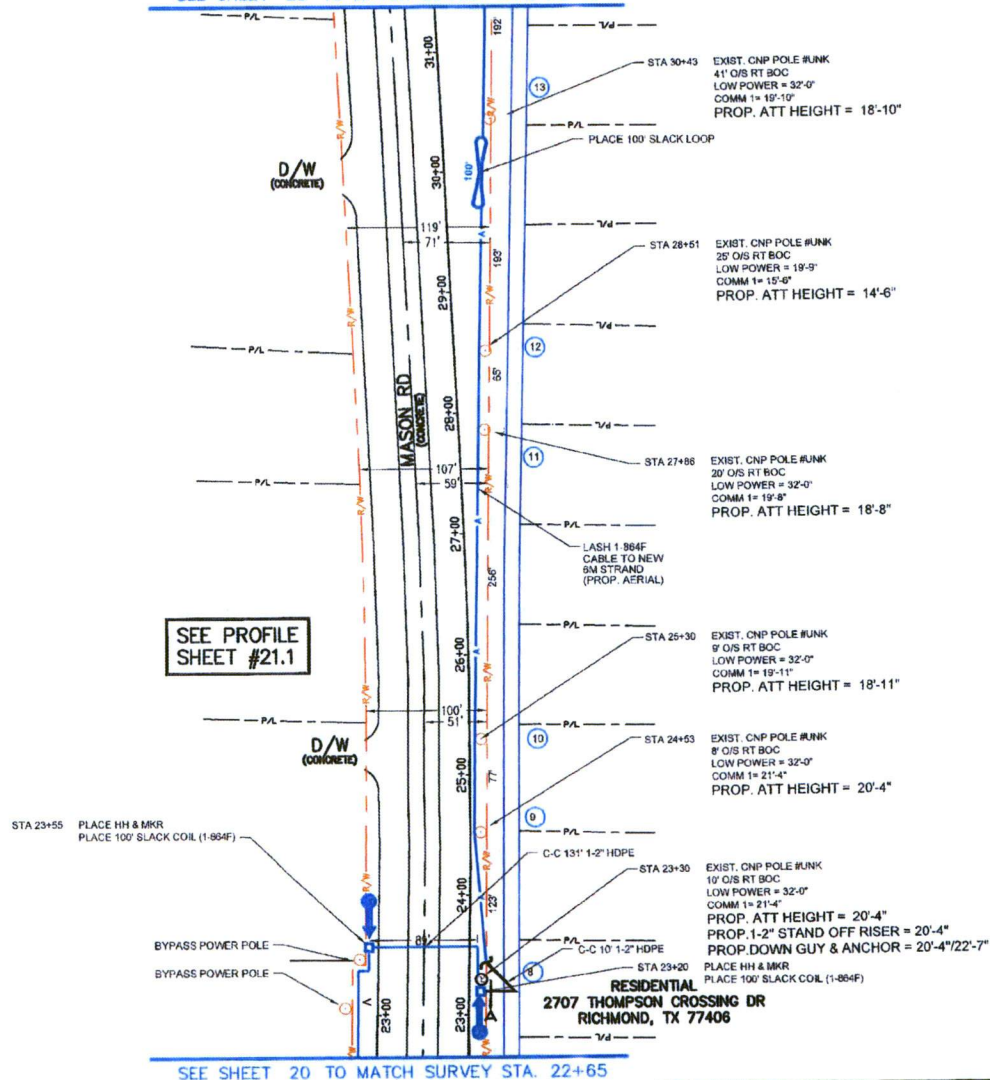
MP TO MP

SHEET 20 OF 86

FILE: 1708ADZQ.040-20AC.BEL.DWG

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 22 TO MATCH SURVEY STA. 32+13



SEE SHEET 20 TO MATCH SURVEY STA. 22+65

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT KINDER MORGAN TEXAS GAS PIPELINE AT 800-833-0184 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING OF ROADWAYS, DRIVEWAYS, AND CULVERTS

NOTE:
PROP. 4"X4" BORE PITS AT EACH HH LOCATION

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708A020.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	140'
PULL 1-864F CABLE	340'
1-2" STAND OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6M STRAND	807'
LASH 1-864F CABLE	907'

MCT COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

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SCALE

HORIZONTAL: 1"=100'
VERTICAL: 1"=100'
MP TO MP
SHEET 21 OF 86

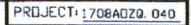
FILE: 1708A020.040-21AC.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION. NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POtholing A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

SEE SHEET 23 TO MATCH SURVEY STA. 40+86



STA 40+80 EXIST. CNP POLE HUNK
96" O/S RT BOC
LOW POWER = 20'-3"
COMM 1= 18'-11"
COMM 2= 18'-0"
PROP. ATT HEIGHT = 16'-3"
PROP. DOWN GUY & ANCHOR = 16'-3"/15'-0"

FARMER RU
(CONCRETE)

STA 37+54
EXIST. CNP POLE #UNK
90' O/S RT BOC
LOW POWER = 32'-0"
COMM 1 = 18'-10"
COMM 2 = 18'-2"
PROP. ATT HEIGHT = 17'-2"

EXIST. CNP POLE #JNK
77' O/S RT BOC
LOW POWER = 32'-0"
COMM 1 = 19'-9"
PROP. ATT HEIGHT = 18'-9"

EXIST. CNP POLE #UNK
72' O/S RT BOC
LOW POWER = 32'-0"
COMM 1 = 18'-10"
PROP. ATT HEIGHT = 17'-10"

EXIST. CNP POLE #UNK
63' O/S RT BOC
LOW POWER = 32'-0"
COMM 1 = 21'-8"
PROP. ATT HEIGHT = 20'-6"

EXIST. CNP POLE #UNK
52' O/S RT BOC
LOW POWER = 32'-0"
COMM 1 = 18'-0"
PROP. ATT HEIGHT = 17'-0"

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

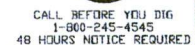
SEE SHEET 21 TO MATCH SURVEY STA. 32+13

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELEFTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

**CAUTION IIII
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION**

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

Know what's below.
Call before you dig.



SHEET 22 OF 86

FILE: 1709A070 040-22AC REL DNE

11

SEE SHEET 24 TO MATCH SURVEY STA. 49+59



RED FILE: 1708ADZQ. 040-23AC. BEL. DWA

SEE SHEET 22 TO MATCH SURVEY STA. 40+86

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POTHOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
WHEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

RICHMOND, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBER
WITH CENTERPOINT ENERGY AT 832-442-6375 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT KINDER MORGAN
TEXAS GAS PIPELINE AT 800-833-8184 TO VERIFY IF GAS
LINE IS ACTIVE OR ABANDONED.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

PROJECT: 1708ADZ0.040

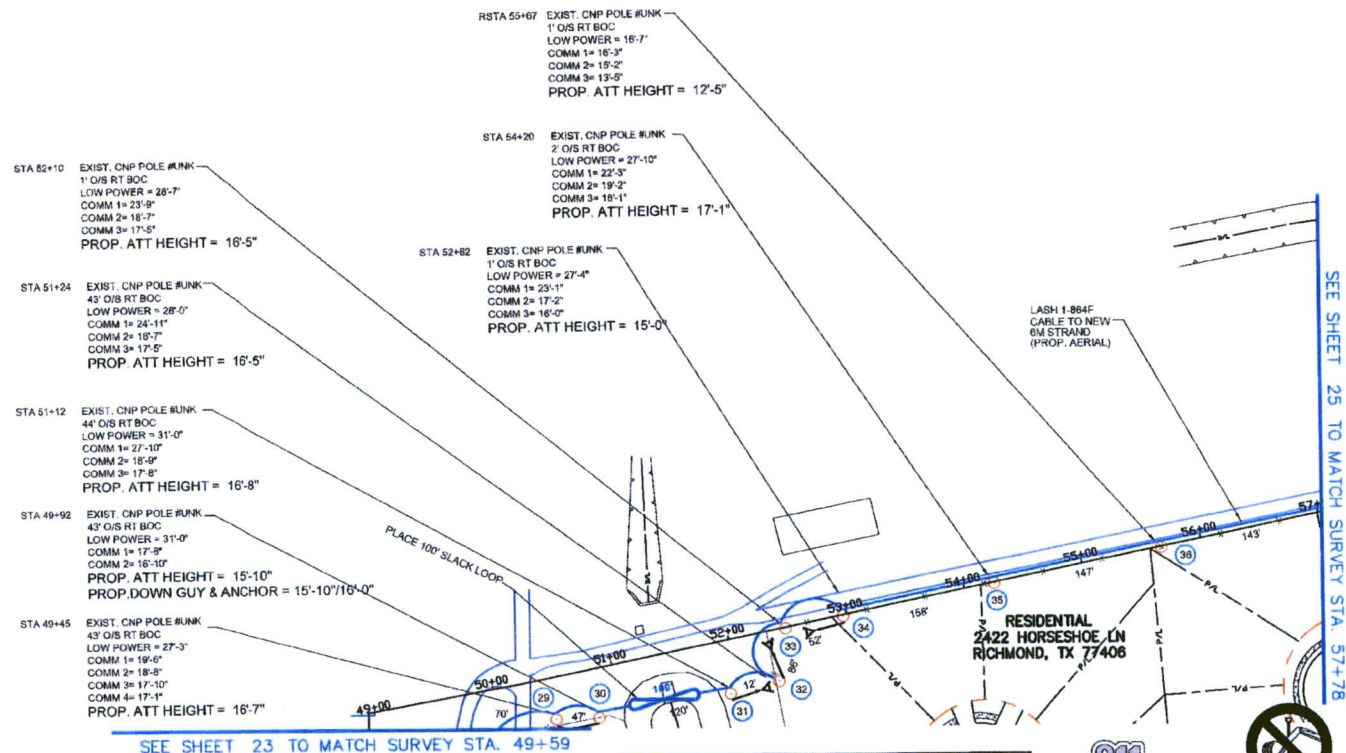
PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE 6M STRAND 819'

LASH 1-864F CABLE 919'



SEE SHEET 23 TO MATCH SURVEY STA. 49+59

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE DESCRIPTION INITIAL

EXCEPT AS HEREIN OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF HCS
COMMUNICATIONS SERVICES, INC. WITH BEING
LOANED TO FIELD OFFICES AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 24 OF 96

FILE: 1708ADZ0.040-24C.DWG

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-Holing
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELETRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 27 TO MATCH SURVEY STA. 77+78



Pole Make Ready Solutions		
STA	EXISTING CNP POLE #	PROPOSED
62+68	42	
63+75	43	
64+75	44	
65+93	45	
66+66	46	
67+44	47	
68+13	48	
69+00	49	
70+00	50	
71+04	51	
71+16	52	
71+84	53	
72+50	54	
73+20	55	
74+95	56	

Pole Make Ready Solutions		
STA	EXISTING CNP POLE #	PROPOSED
63+75	43	
64+75	44	
65+93	45	
66+66	46	
67+44	47	
68+13	48	
69+00	49	
70+00	50	
71+04	51	
71+16	52	
71+84	53	
72+50	54	
73+20	55	
74+95	56	

SEE PROFILE SHEET #26.1

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOBB WITH CENTER ENERGY AT 832-642-6276 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGHMAN AT bah@binkleyfield.com OR BY PHONE (713) 869-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS AT EACH HH LOCATION

PROJECT: 1708AD23.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	72'
PULL 1-864F CABLE	172'
1-2" STAND OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6H STRAND	1466'
LASH 1-864F CABLE	1566'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. AND SHALL BE USED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE	
HORIZONTAL:	1"=100'
VERTICAL:	1"=100'
MP	TO MP
SHEET 26	OF 86
FILE: 1708AD23.040-86AC.BEL.DWG	



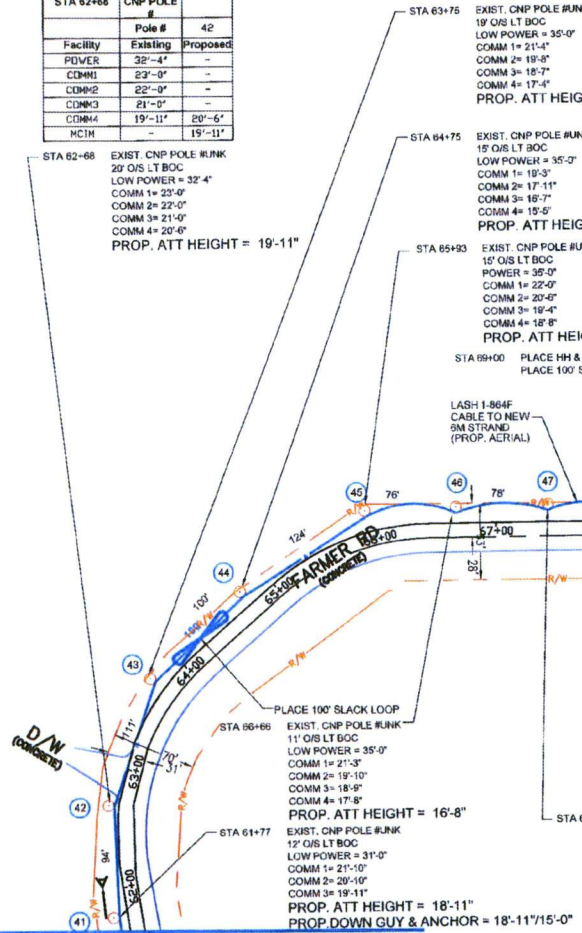
CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION, NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.



SEE SHEET 25 TO MATCH SURVEY STA. 62+40

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 28 TO MATCH SURVEY STA. 86+51



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA, CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-442-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TADOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA, CONTACT KIMBER MORGAN
TEXAS GAS PIPELINE AT 800-633-0184 TO VERIFY IF GAS
LINE IS ACTIVE OR ABANDONED.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

STA 85+60 EXIST. CNP POLE #430212
14' O/S LT BOC
LOW POWER = 20'-2"
COMM 1= 21'-7"
COMM 2= 20'-10"
COMM 3= 20'-4"
COMM 4= 18'-11"
PROP. ATT HEIGHT = 16'-8"

STA 83+74 EXIST. CNP POLE #UNK
15' O/S LT BOC
POWER = 35'-0"
COMM 1= 20'-7"
COMM 2= 18'-0"
COMM 3= 17'-10"
COMM 4= 16'-5"
PROP. ATT HEIGHT = 15'-8"

STA 81+96 EXIST. CNP POLE #UNK
15' O/S LT BOC
LOW POWER = 35'-0"
COMM 1= 21'-6"
COMM 2= 19'-11"
COMM 3= 18'-5"
COMM 4= 17'-5"
PROP. ATT HEIGHT = 16'-5"

LASH 1-864F
CABLE TO NEW
6M STRAND
(PROP. AERIAL)
STA 80+20 EXIST. CNP POLE #401112
14' O/S LT BOC
LOW POWER = 35'-0"
COMM 1= 18'-5"
COMM 2= 16'-10"
COMM 3= 15'-9"
COMM 4= 14'-5"
PROP. ATT HEIGHT = 13'-5"

STA 79+04 EXIST. CNP POLE #UNK
14' O/S LT BOC
LOW POWER = 35'-0"
COMM 1= 18'-0"
COMM 2= 16'-0"
COMM 3= 16'-6"
COMM 4= 15'-10"
PROP. ATT HEIGHT = 14'-10"

PLACE 100' SLACK LOOP
STA 77+63 EXIST. CNP POLE #UNK
13' O/S LT BOC
LOW POWER = 35'-0"
COMM 1= 19'-4"
COMM 2= 18'-2"
COMM 3= 17'-2"
COMM 4= 16'-2"
PROP. ATT HEIGHT = 15'-2"

RESIDENTIAL
3815 CARTERS LAKE RD
RICHMOND, TX 77406

FARMER RD

SEE SHEET 26 TO MATCH SURVEY STA. 77+78

CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1706ADZQ. 040

PECAN GROVE TO CINCO RANCHO

CINCO RANCHO CELL SITE

CLARIFICATION NO. QUANTITY

PLACE 6M STRAND 873'

LASH 1-864F CABLE 973'

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

EXCEPT AS NOT BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
DO NOT GUARANTEE THE PROPERTY OF THE
COMMUNICATIONS SERVICE, INC. BEING
USED IN THESE DRAWINGS AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 27 OF 86

FILE: 1706ADZQ. 040-27AC. BEL. INC

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 29 TO MATCH SURVEY STA. 95+69



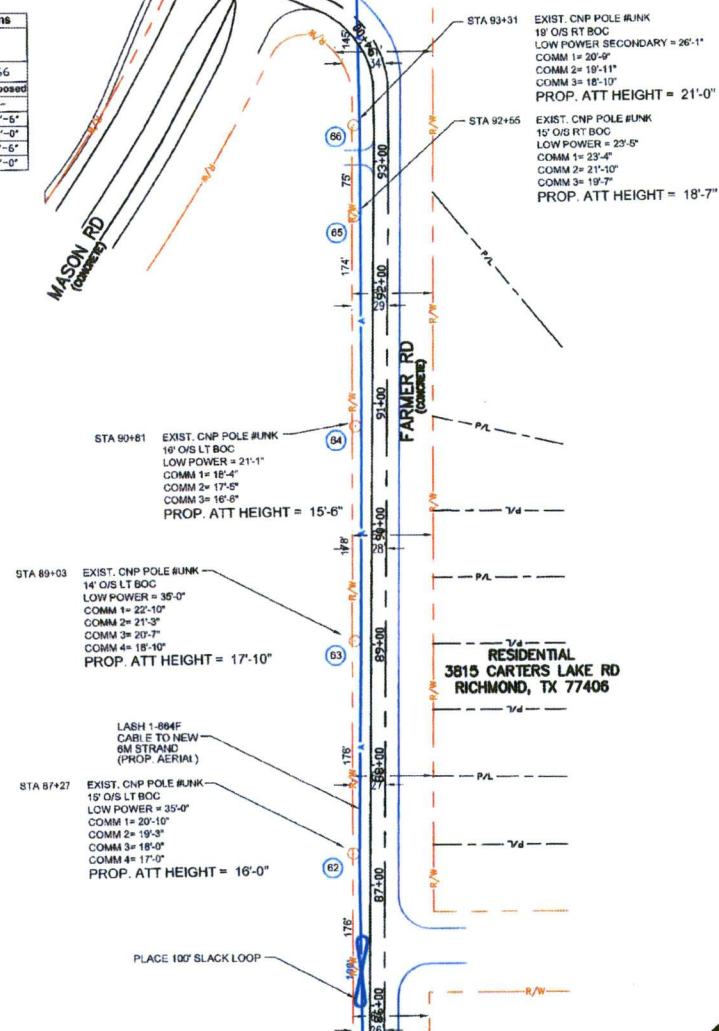
NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-4375 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
b.hugman@texasbarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

Pole Make Ready Solutions		
STA 93+31	EXISTING CNP POLE	PROPOSED
Facility	Existing	Proposed
POWER	26'-1"	-
COMM1	20'-9"	22'-5"
COMM2	19'-11"	22'-0"
COMM3	18'-10"	21'-6"
MCIM	21'-0"	-



SEE SHEET 27 TO MATCH SURVEY STA. 86+51

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1708ACQZ.040

PECAN GROVE TO CIMCO RANCH
CIMCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE 6M STRAND	918'
LASH 1-864F CABLE	1018'

MCI COMMUNICATIONS
ACCESS TRIBUTATION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CIMCO RANCH
CIMCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE SERVICES AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF MCI
COMMUNICATIONS SERVICES, INC. AND BEING
ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 28 OF 96

FILE: 1708ACQZ.040-28AC. REL. DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 10" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 30 TO MATCH SURVEY STA. 105+05



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TMDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
b.hugman@binkleybarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

Pole Make Ready Solutions			
STA	EXISTING CNP POLE #	Pole # 72	
Facility	Existing	Proposed	
POWER	31'-0"	-	
COMM1	23'-10"	-	
COMM2	23'-3"	-	
COMM3	21'-0"	22'-3"	
NCIM		21'-3"	

RESIDENTIAL
20522 DELTA LAKE DR
RICHMOND, TX 77406

Pole Make Ready Solutions			
STA	EXISTING CNP POLE #	Pole # 71	
Facility	Existing	Proposed	
POWER	31'-0"	-	
COMM1	22'-3"	-	
COMM2	21'-7"	-	
COMM3	19'-8"	20'-7"	
NCIM		19'-8"	

Pole Make Ready Solutions			
STA	EXISTING CNP POLE #	Pole # 67	
Facility	Existing	Proposed	
POWER	33'-11"	-	
COMM1	22'-6"	24'-6"	
COMM2	21'-8"	23'-8"	
COMM3	19'-3"	22'-6"	
NCIM		21'-8"	

STA 96+72 EXIST. CNP POLE #UNK
9' O/S LT BOC
LOW POWER = 31'-0"
COMM 1 = 22'-11"
COMM 2 = 21'-10"
COMM 3 = 19'-10"
PROP. ATT HEIGHT = 19'-4"

STA 98+16 EXIST. CNP POLE #UNK
9' O/S LT BOC
LOW POWER = 31'-0"
COMM 1 = 21'-11"
COMM 2 = 21'-0"
COMM 3 = 19'-0"
PROP. ATT HEIGHT = 18'-0"

STA 09+68 EXIST. CNP POLE #UNK
9' O/S LT BOC
LOW POWER = 31'-0"
COMM 1 = 22'-3"
COMM 2 = 21'-7"
COMM 3 = 19'-8"
PROP. ATT HEIGHT = 19'-8"

STA 100+81 EXIST. CNP POLE #UNK
9' O/S LT BOC
POWER = 31'-0"
COMM 1 = 23'-11"
COMM 2 = 23'-3"
COMM 3 = 21'-6"
PROP. ATT HEIGHT = 21'-0"

STA 102+08 EXIST. CNP POLE #UNK
19' O/S LT BOC
POWER = 31'-0"
COMM 1 = 23'-11"
COMM 2 = 23'-3"
COMM 3 = 21'-6"
PROP. ATT HEIGHT = 20'-6"

STA 95+36 EXIST. CNP POLE #UNK
13' O/S RT BOC
POWER = 31'-0"
COMM 1 = 23'-5"
COMM 2 = 22'-8"
COMM 3 = 21'-0"
PROP. ATT HEIGHT = 20'-6"

STA 94+78 EXIST. CNP POLE #UNK
34' O/S RT BOC
LOW POWER = 33'-11"
COMM 1 = 22'-0"
COMM 2 = 21'-8"
COMM 3 = 19'-3"
PROP. ATT HEIGHT = 21'-8"

SEE SHEET 28 TO MATCH SURVEY STA. 95+69

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708ADZG. 040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NDL QUANTITY

PLACE 6N STRAND 936'

LASH 1-864F CABLE 1036'

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 31 TO MATCH SURVEY STA. 113+78



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TXDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bhh@binkleybarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

RESIDENTIAL
20506 ELDERWOOD TERRACE DR
RICHMOND, TX 77406

STA 111+31 EXIST. CNP POLE #UNK
16" O/S LT BOC
POWER = 32'-0"
COMM 1 = 20'-10"
COMM 2 = 19'-4"
COMM 3 = 18'-3"
COMM 4 = 17'-0"
PROP. ATT HEIGHT = 16'-0"

STA 110+43 EXIST. CNP POLE #UNK
16" O/S LT BOC
LOW POWER = 32'-0"
COMM 1 = 21'-8"
COMM 2 = 20'-3"
COMM 3 = 18'-6"
COMM 4 = 17'-4"
PROP. ATT HEIGHT = 16'-4"

STA 108+64 EXIST. CNP POLE #UNK
16" O/S LT BOC
LOW POWER = 32'-0"
COMM 1 = 22'-8"
COMM 2 = 21'-1"
COMM 3 = 19'-10"
COMM 4 = 18'-7"
PROP. ATT HEIGHT = 17'-7"

STA 108+11 EXIST. CNP POLE #UNK
16" O/S LT BOC
LOW POWER = 32'-0"
COMM 1 = 21'-11"
COMM 2 = 20'-3"
COMM 3 = 19'-2"
COMM 4 = 17'-5"
PROP. ATT HEIGHT = 16'-8"

PLACE 100' SLACK LOOP

STA 107+01 EXIST. CNP POLE #UNK
112" O/S LT BOC
LOW POWER = 31'-0"
COMM 1 = 21'-0"
COMM 2 = 20'-2"
COMM 3 = 19'-3"
COMM 4 = 18'-2"
PROP. ATT HEIGHT = 17'-2"

LASH 1-864F
CABLE TO NEW
64 STRAND
(PROP. AERIAL)

STA 106+27 EXIST. CNP POLE #UNK
70" O/S LT BOC
LOW POWER = 31'-0"
COMM 1 = 20'-8"
COMM 2 = 18'-8"
COMM 3 = 17'-7"
COMM 4 = 16'-2"
PROP. ATT HEIGHT = 15'-2"

STA 103+77 EXIST. CNP POLE #UNK
44" O/S LT BOC
POWER = 31'-0"
COMM 1 = 22'-0"
COMM 2 = 20'-6"
COMM 3 = 18'-6"
PROP. ATT HEIGHT = 17'-6"

SEE SHEET 29 TO MATCH SURVEY STA. 105+05

D/W
(CONCRETE)

D/W
(CONCRETE)

D/W
(CONCRETE)

D/W
(CONCRETE)

MTI COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCINNATI RANCH
CINCINNATI CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

SHOWN AS MAY BE INTERFERED BY
CONTRACTOR. THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF THE
COMMUNICATIONS SERVICES, INC. BOTH BEING
GIVEN IN STRICT CONFIDENCE AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE
HORIZONTAL: 1"=100'
VERTICAL: 1"=100'
MP TO MP
SHEET 30 OF 86
FILE: 1708ADZ0.040-30AC.BEL.DWG

NOTE: UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION III
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE: ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION II
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 32 TO MATCH SURVEY STA. 122+50



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-8276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bhu@whitebarfield.com OR BY PHONE (713) 669-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

RESIDENTIAL
20510 SPARROWS SPUR ST
RICHMOND, TX 77406

STA 119+28 EXIST. CNP POLE #UNK
16' O/S LT BOC
POWER = 32'-0"
COMM 1 = 24'-0"
COMM 2 = 22'-5"
COMM 3 = 21'-1"
COMM 4 = 18'-9"
PROP. ATT HEIGHT = 18'-9"

STA 117+51 EXIST. CNP POLE #UNK
16' O/S LT BOC
LOW POWER = 32'-0"
COMM 1 = 25'-5"
COMM 2 = 23'-11"
COMM 3 = 22'-2"
COMM 4 = 20'-10"
PROP. ATT HEIGHT = 19'-10"

PLACE 100' SLACK LOOP

STA 115+74 EXIST. CNP POLE #UNK
16' O/S LT BOC
LOW POWER = 32'-0"
COMM 1 = 19'-3"
COMM 2 = 18'-7"
COMM 3 = 18'-2"
COMM 4 = 16'-5"
PROP. ATT HEIGHT = 15'-5"

LASH 1-864F
CABLE TO NEW
6M STRAND
(PROP. AERIAL)

STA 113+95 EXIST. CNP POLE #UNK
16' O/S LT BOC
LOW POWER = 32'-0"
COMM 1 = 20'-6"
COMM 2 = 18'-10"
COMM 3 = 17'-4"
COMM 4 = 16'-3"
PROP. ATT HEIGHT = 15'-3"

STA 112+21 EXIST. CNP POLE #UNK
16' O/S LT BOC
LOW POWER = 32'-0"
COMM 1 = 21'-2"
COMM 2 = 19'-5"
COMM 3 = 17'-3"
COMM 4 = 16'-8"
PROP. ATT HEIGHT = 15'-6"

SEE SHEET 30 TO MATCH SURVEY STA. 113+78

PROJECT: 1708A020.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE 6M STRAND 872'

LASH 1-864F CABLE 972'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-
-	-	-
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF MCI
COMMUNICATIONS SERVICES, INC. WITH NO
RIGHTS IN STREET, CITY, COUNTY AND STATE. NO
REVISIONS, CORRECTIONS OR CHANGES SHALL BE
MADE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 31 OF 86

FILE: 1708A020.040-31AC.BEL.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 10" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

RICHMOND, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBS
WITH CENTERPOINT ENERGY AT 832-442-4275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

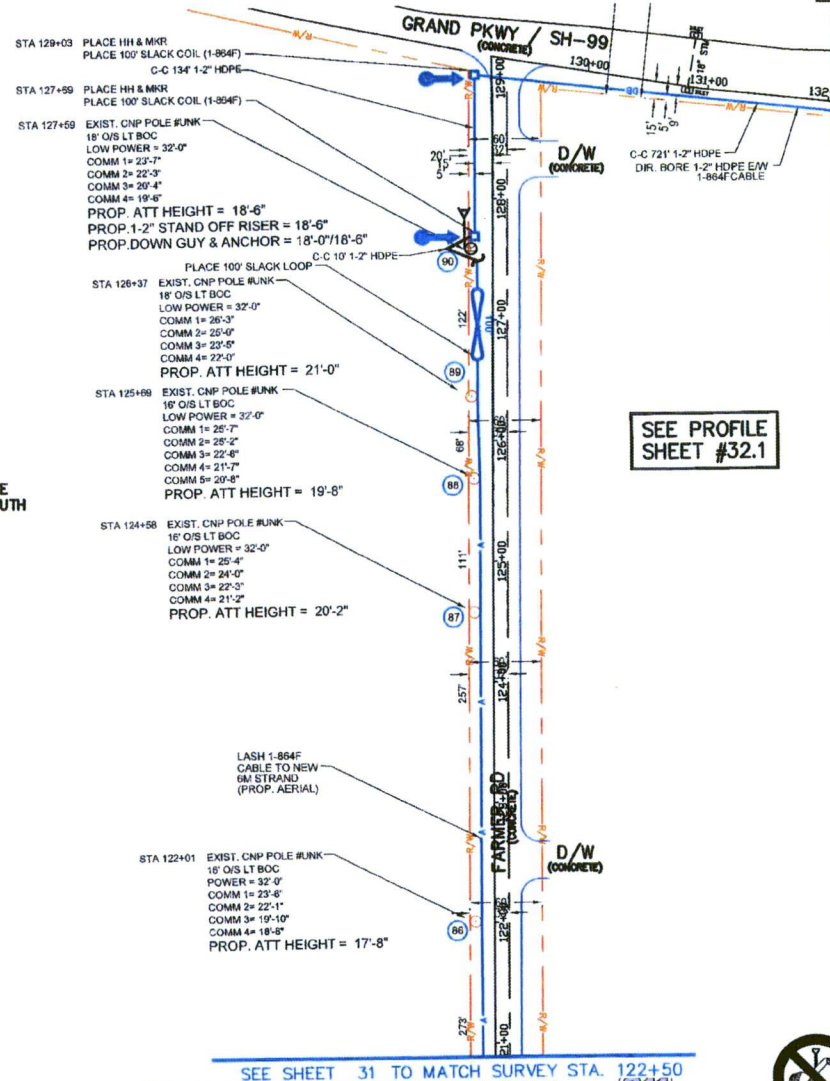
CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
b.hugman@binkleybarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 90" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

7970 GRAND APARTMENT HOME
7970 WEST GRAND PARKWAY SOUTH
RICHMOND, TX 77406



SEE PROFILE
SHEET #32.1

SEE SHEET 33 TO MATCH SURVEY STA. 133+33

SEE SHEET 31 TO MATCH SURVEY STA. 122+50

PROJECT: 1708ADZD. 040

PECAN GROVE TO CINDY RANCH

CINDY RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	412'
PULL 1-864F CABLE	512'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6M STRAND	671'
LASH 1-864F CABLE	771'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINDY RANCH
CINDY RANCH CELL SITE, TX 77065
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF MCI. NO
REUSE, REPRODUCTION, OR DISSEMINATION
IS PERMITTED WITHOUT THE WRITTEN PERMISSION
OF MCI COMMUNICATIONS SERVICES CORP.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 32 OF 86

FILE: 1708ADZD.040-32AC.BEL.BWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



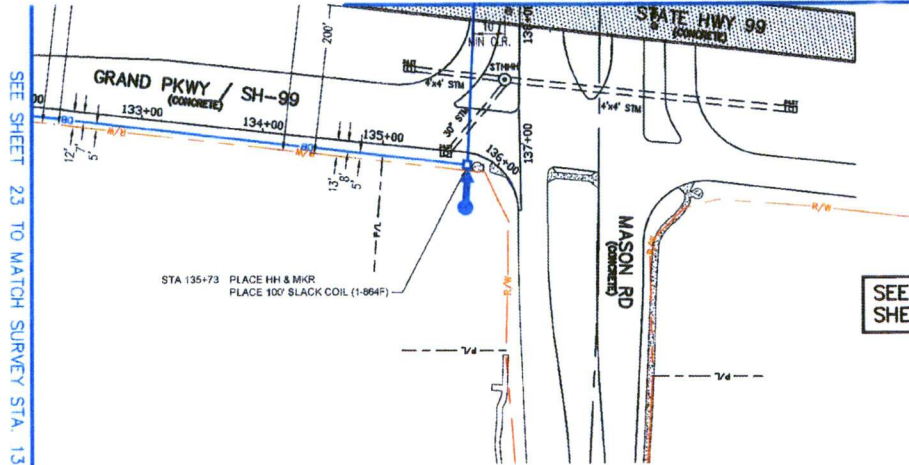
Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 33 TO MATCH SURVEY STA. 139+70



SEE SHEET 23 TO MATCH SURVEY STA. 133+33

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
buh@blinklebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708A020.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PREP. 1-2" HDPE	637'
PULL 1-664F CABLE	737'

NCT COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

PROCEED AS ANY REVISIONS PROVIDED BY
CONTRACTOR. THESE REVISIONS AND SPECIFICATIONS
DO NOT ALTER THE PROPERTY OF NCT
COMMUNICATIONS SERVICES, INC. WITH BEING
ISSUED IN EXISTING CONTRACTS AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 33 OF 86

FILE: 1708A020.040-33AC.BEL.DWG

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 34 TO MATCH SURVEY STA. 148+00



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-8276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bsh@binkleberfeld.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

CHASE BANK
8027 WEST GRAND PARKWAY SOUTH
RICHMOND, TX 77407

STA 140+50 PLACE HH & MKR
PLACE 100' SLACK COIL (1-B64F)

C-C 535' 1-2" HDPE
DIR. BORE 1-2" HDPE E/W
1-B64F CABLE

STA 141+23 PLACE HH & MKR
PLACE 100' SLACK COIL (1-B64F)

C-C 650' 1-2" HDPE
DIR. BORE 1-2" HDPE E/W
1-B64F CABLE

SEE PROFILE
SHEET #34.1

SEE SHEET 32 TO MATCH SURVEY STA. 131+23

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION III
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION III
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	1677'
PULL 1-B64F CABLE	1977'

ACCESS TELECOMMUNICATION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77407
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
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PROFILE
SOUTH SIDE OF GRAND PKWY / SH-99
LOOKING NORTH

EXIST. HH
END/BEG. DIR. BORE

STA 138+78 GRAND PKWY / SH-99

STA 141+23 EXIST. HH
END/BEG. D/R. BORE



FILE 1708ADZQ. 039-34. 1AE. DEL. DVO

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



RICHMOND, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TXDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bahu@binklebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 8" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 1"x4" BORE PITS
AT EACH HH LOCATION

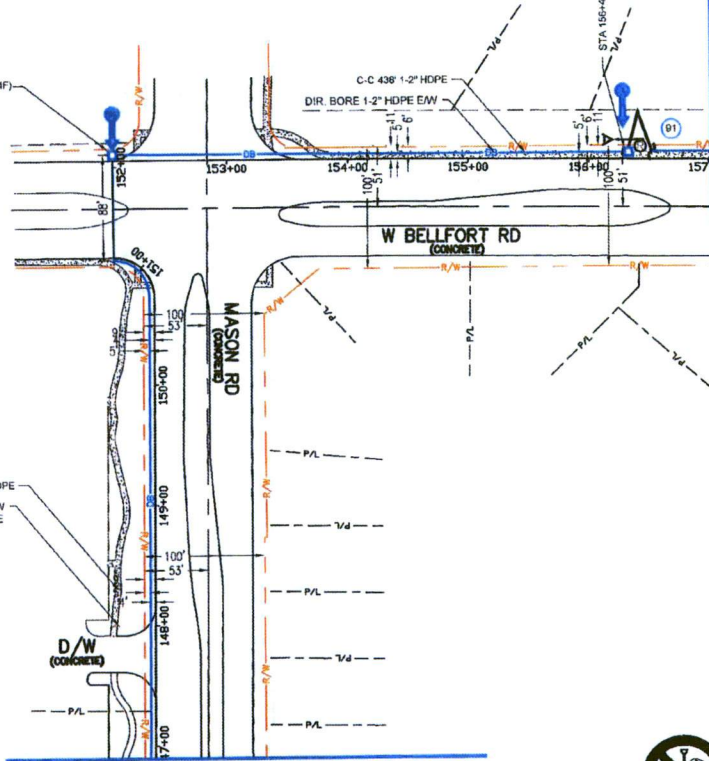
SEE PROFILE
SHEET #35.1

STA 152+06 PLACE HH & MKR
PLACE 100' SLACK COIL (1-864F)

C-C 438' 1-2" HDPE
DIR. BORE 1-2" HDPE E/W

EXIST. CNP POLE MARK
33' OSLT BOC
LOW POWER = 18' 5"
LOW POWER = 18' 5"
COMM 2 = 15' 2"
COMM 3 = 14' 5"
PROP. ATT HEIGHT = 13' 9"
PROP. DOWN GUY & ANCHOR = 13'-9"9'-0"

SEE SHEET 35 TO MATCH SURVEY STA. 158+28



C-C 544' 1-2" HDPE
DIR. BORE 1-2" HDPE E/W
1-864F CABLE

STARBUCKS
8011 WEST GRAND PARKWAY SOUTH
RICHMOND, TX 77407

SEE SHEET 33 TO MATCH SURVEY STA. 148+00

CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1708AQZQ. 040

PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	1028'
PULL 1-864F CABLE	1228'

MCI TELECOMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE, TX 7706
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF MCI
TELECOMMUNICATIONS SERVICES CORP. AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 35 OF 86

FILE: 1708AQZQ. 040-35AC REL. DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

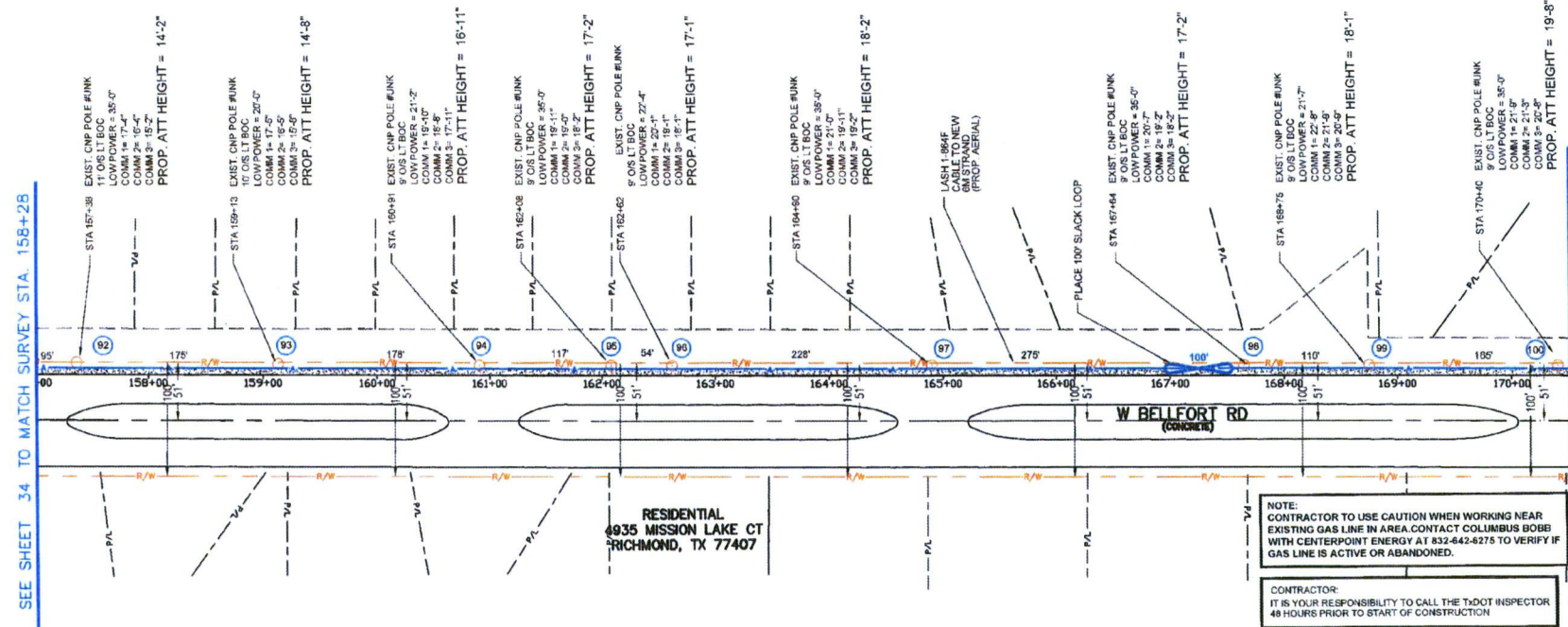
RICHMOND, TX
FORT BEND COUNTY



PROJECT: 1708AC20.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	35'
PULL 1-864F CABLE	135'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6H STRAND	1315'
LASH 1-864F CABLE	1415'



SEE SHEET 34 TO MATCH SURVEY STA. 158+28

SEE SHEET 36 TO MATCH SURVEY STA. 171+78

MCI TELECOMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT OPTIC CABLE ROUTE
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77065
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE MANUFACTOR AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI TELECOMMUNICATIONS SERVICES CORP. AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'
VERTICAL: 1"=100'
MP TO MP
SHEET 36 OF 86

FILE: 1708AC20.040-36AC.BEL.DWG

NOTE
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION, NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT bhugman@linkbelsfield.com OR BY PHONE (713) 889-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
PROP. 4"x4" BORE PITS AT EACH HH LOCATION



RICHMOND, TX
FORT BEND COUNTY



PROJECT: 1708ADZG.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE 6M STRAND 1350'

LASH 1-864F CABLE 1450'

MCI TELECOMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, PL 1708
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJJ

DRAWN BY: GXT

REVISIONS

DATE DESCRIPTION INITIAL

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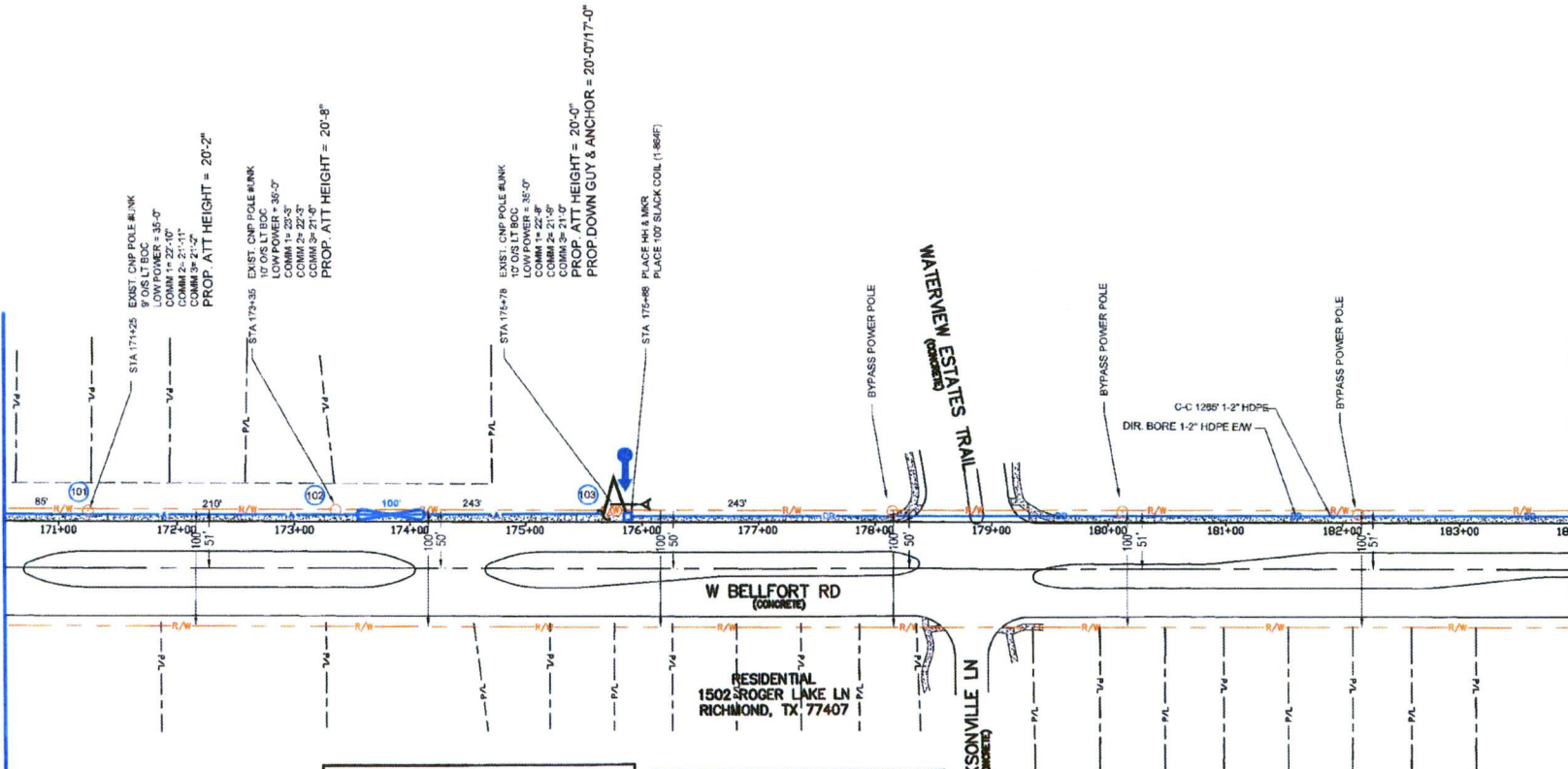
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SEE SHEET 35 TO MATCH SURVEY STA. 171+78

SEE SHEET 37 TO MATCH SURVEY STA. 185+28



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
b.hugman@pinklabbartfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POtholing
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELEFTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 37 OF 86

FILE: 1708ADZG.040-37AC.BEL.BWG

RICHMOND, TX
FORT BEND COUNTY

RESIDENTIAL
5014 OXFORD CHASE TRAIL
RICHMOND, TX 77407

SEE PROFILE
SHEET #38.1



PROJECT: 1708ADZQ.040

PECAN GROVE TO CINDO RANCH

CINDO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE 6N STRAND 1352'

LASH 1-B64F CABLE 1452'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE

PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE DESCRIPTION INITIAL

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 38 OF 86

FILE: 1708ADZQ.040-38AC.REL.DWG



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bah@binkiebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HP LOCATION

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELETRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

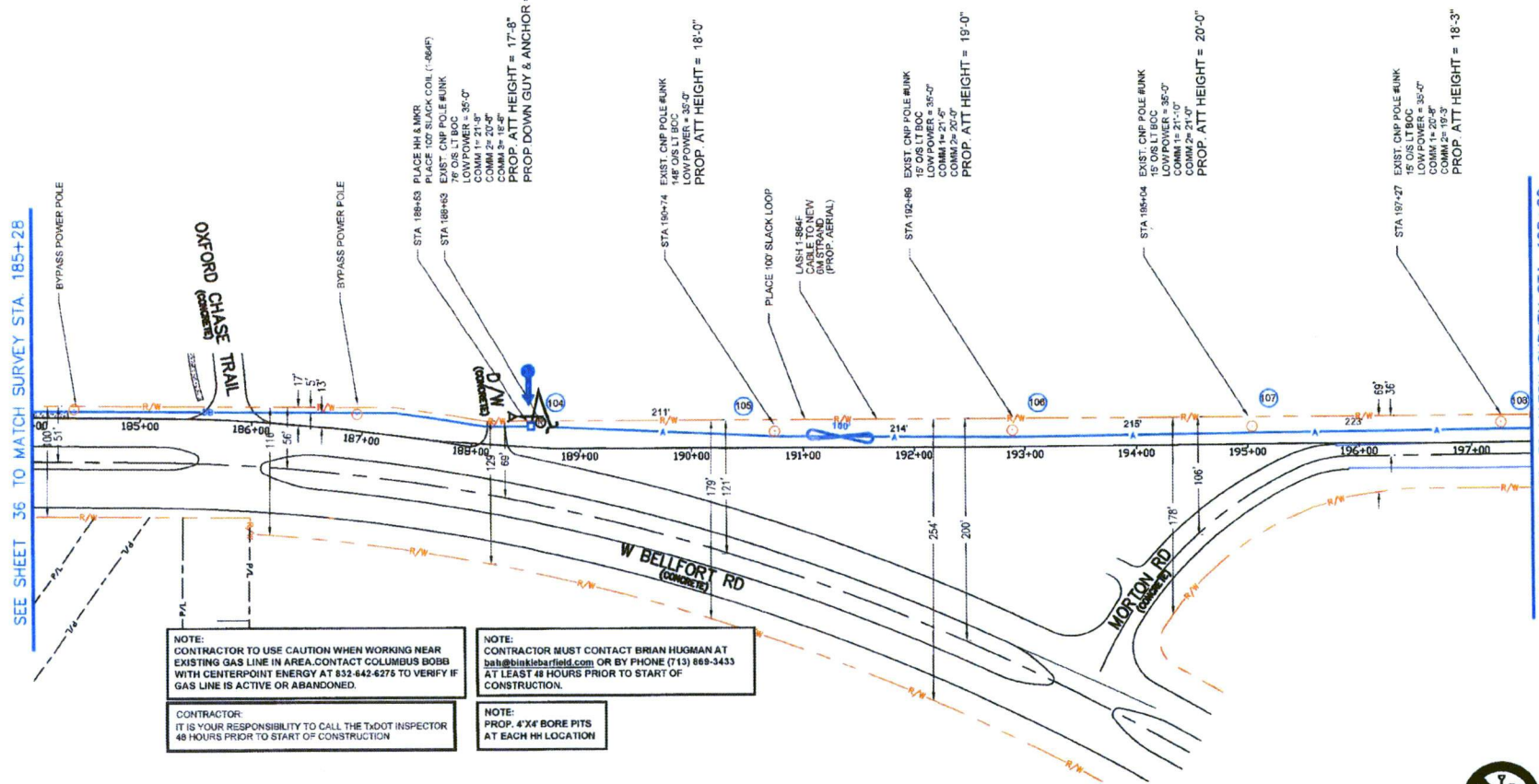
**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

SEE SHEET 36 TO MATCH SURVEY STA. 185+28

SEE SHEET 38 TO MATCH SURVEY STA. 198+80



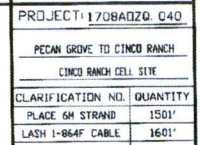
NORTH

A simple compass rose with a circle and an arrow pointing upwards, labeled 'NORTH' above it.

SEE SHEET 39 TO MATCH SURVEY STA. 212+30

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

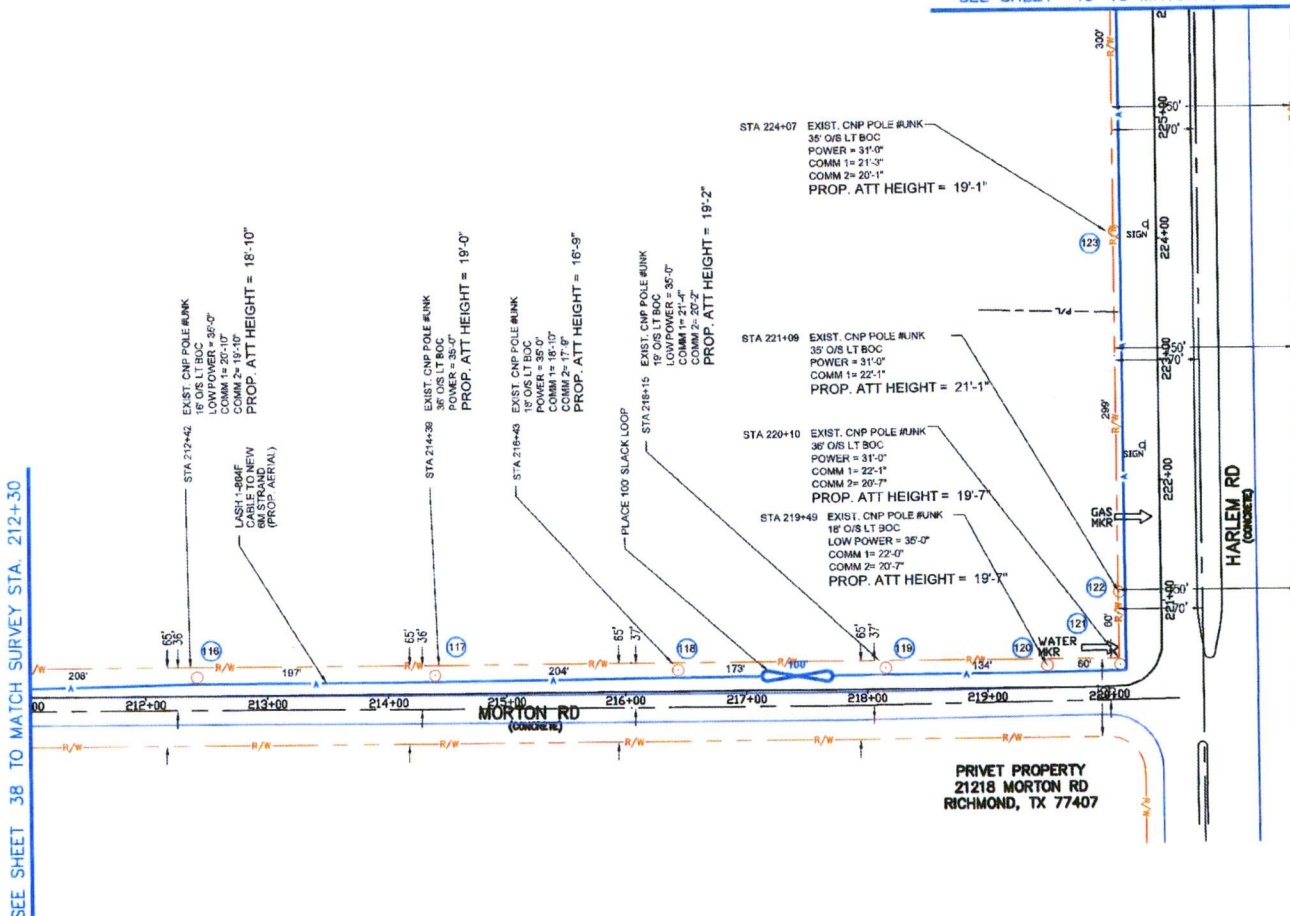
SEE SHEET 40 TO MATCH SURVEY STA. 227+31



PECAN GROVE TO CINCO RANCH	
CINCO RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE 6M STRAND	1501'
LASH 1-864F CABLE	1601'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCINNATI
CINCINNATI CELL SITE, TX 77405
OUTSIDE PLANT - PLANT

D F ILE 11708A020, 040-4144, B



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-8275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bah@binkleberfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELEFTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

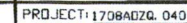
CAUTION IIII
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POTHOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

SEE SHEET 41 TO MATCH SURVEY STA. 236+02



PRIVET PROPERTY
29.66843, -95.71585
RICHMOND, TX 77407

LASH 1-304F
CABLE TO NEW-
6M STRAND
(PROP. AERIAL)

STA 227+06 EXIST. CNP POLE #UNK
36" O/S LT BOC
POWER = 31'-0"
COMM 1 = 22'-11"
COMM 2 = 21'-11"
PROP. ATT HEIGHT = 20'-11"

The plan view shows a section of Harlem Rd (Concrete) with stationing from 216+00 to 234+00. Key features include:

- Lane Markings:** A solid blue line indicates the centerline, flanked by dashed orange lines representing lane boundaries.
- Stationing:** Major stations are marked at 216+00, 220+00, 224+00, 228+00, 232+00, and 234+00.
- Annotations:**
 - "PLACE 100' SLACK LOOP" is indicated between stations 228+00 and 232+00.
 - "GAS MCR" (Gas Main Crossing Right-of-Way) is shown at stations 216+00, 220+00, and 224+00.
 - "HARLEM RD (CONCRETE)" is labeled near station 228+00.
- Other Features:** A "300'" dimension is noted across the top of the plan view.

SEE SHEET 39 TO MATCH SURVEY STA. 227+31

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

CLARIFICATION NO.	QUANTITY
PLACE 6M STRAND	871'
LASH 1-864F CABLE	971'

MCI COMMUNICATION
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECCAN GROVE, TO GINCO RANCH
GINCO RANCH COLL. ST. TX 77466

REVISIONS

[illegible]

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATION SERVICES, INC. WITH BEING ISSUED IN STRICT CONFIDENCE AND SHALL BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSES WITHOUT THE WRITTEN CONSENT OF MCI COMMUNICATION SERVICES, INC.

SHEET 41 OF 8

FILE: 1708ADZQ.040-41AC. BEL. DWG

CAUTION IIII
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
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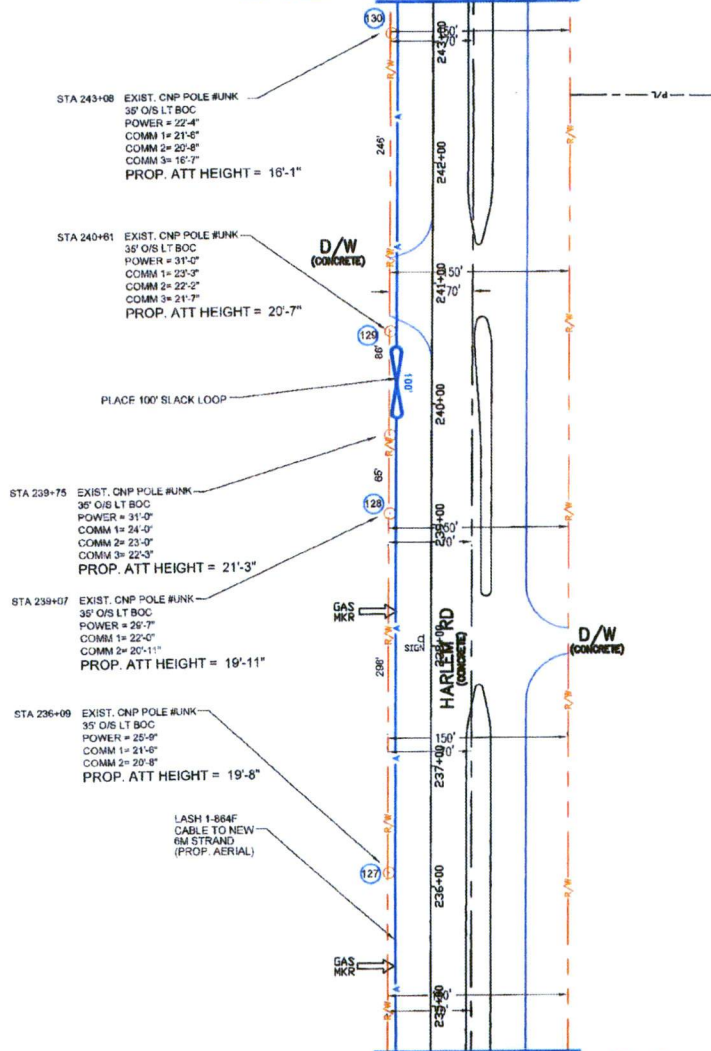
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LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

48 HOURS NOTICE REQUIRED

RICHMOND, TX
FORT BEND COUNTY
SEE SHEET 42 TO MATCH SURVEY STA. 244+74



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-4275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
b.hugman@binkleybarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

THE SPOT
9823 HARLEM RD
RICHMOND, TX 77407

PROJECT 1708A02G. 040

PECAN GROVE TO CINDO RANCH

CINDO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE 6M STRAND 872'

LASH 1-864F CABLE 972'

SEE SHEET 40 TO MATCH SURVEY STA. 236+02

NOTE:
UTILITY & R.O.W. REPRESENTED ON
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BOUNDARY SURVEY & FIELD EXPOSURES.

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PRIOR TO CONSTRUCTION

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SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
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Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

SCALE

HORIZONTAL: 1"=100'

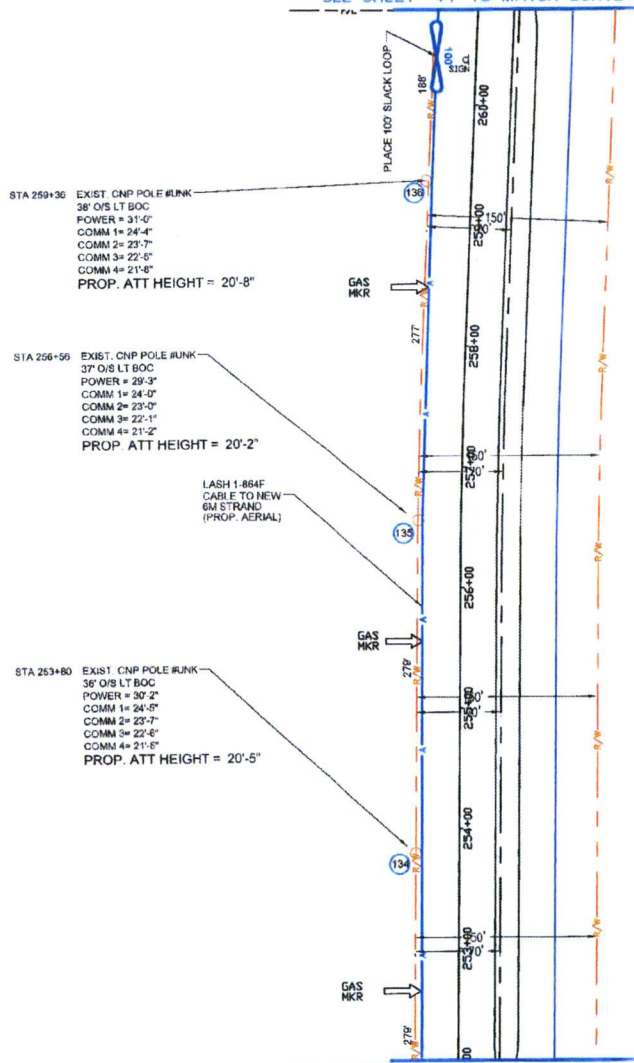
VERTICAL: 1"=100'

MP TO MP

SHEET 42 OF 86

FILE: 1708A02G.040-42AC.BEL.09G

**RICHMOND, TX
FORT BEND COUNTY**
SEE SHEET 44 TO MATCH SURVEY STA. 262+20



PRIVET PROPERTY
29.67555, -95.71443
RICHMOND, TX 77407

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT beh@binkisbarfield.com OR BY PHONE (713) 869-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
PROP. 4'X4' BORE PITS AT EACH HH LOCATION

PROJECT: 1708ADZQ.040

PCDW GROVE TO CINCINNATI
CINCINNATI CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE 6H STRAND	873'
LASH 1-864F CABLE	973'

HCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PCDW GROVE TO CINCINNATI
CINCINNATI CELL SITE, TX 77065
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL BE THE PROPERTY OF HCI COMMUNICATIONS SERVICES, INC. (HCI). NO PART OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 44 OF 96

FILE: 1708ADZQ.040-44AC.BEL.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION. NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



RICHMOND, TX
 FORT BEND COUNTY
 SEE SHEET 45 TO MATCH SURVEY STA. 271+68



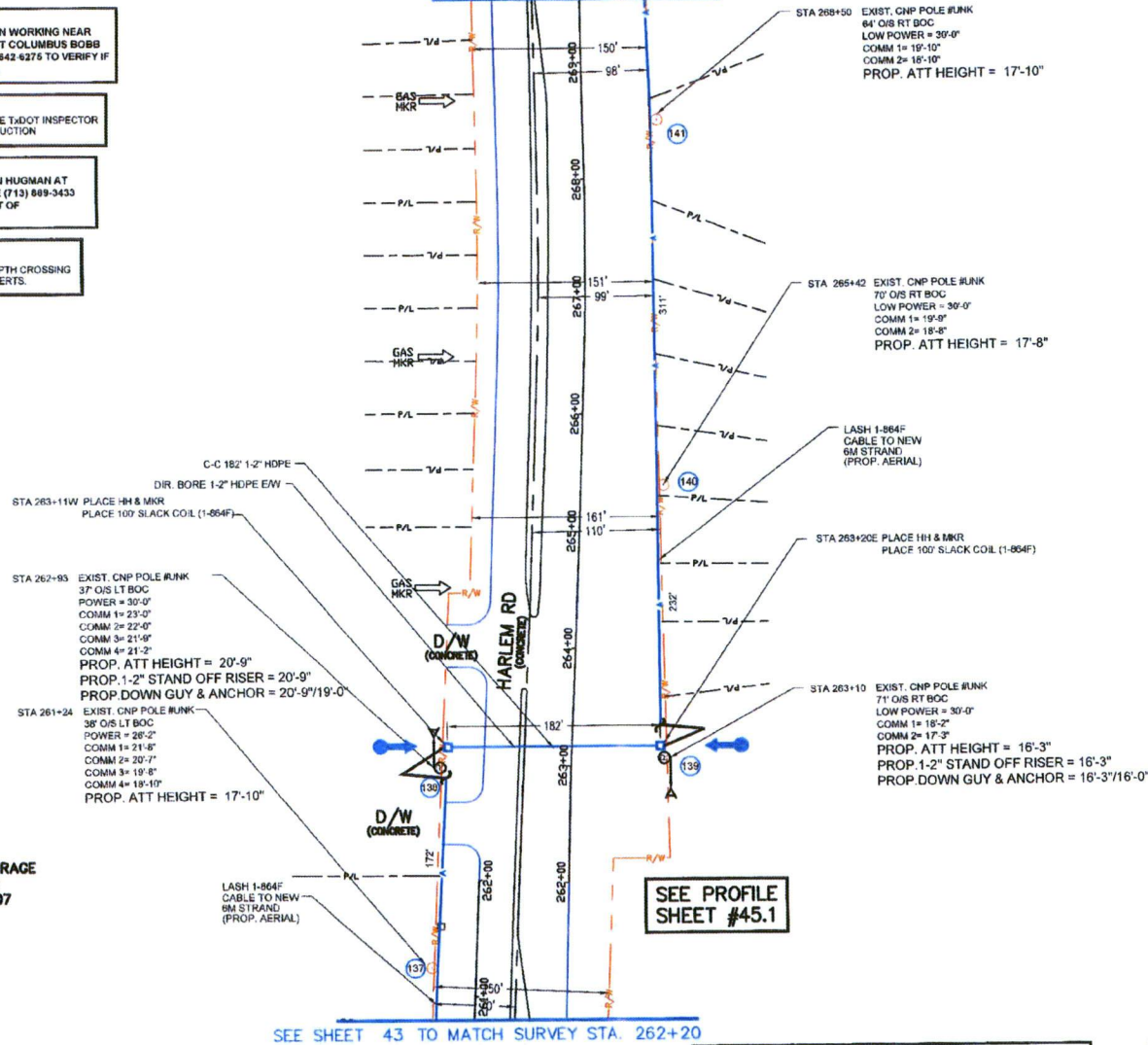
NOTE:
 CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
 EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
 WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
 GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
 IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
 CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
 bahn@binklabarfield.com OR BY PHONE (713) 889-3433
 AT LEAST 48 HOURS PRIOR TO START OF
 CONSTRUCTION.

NOTE:
 CONTRACTOR TO MAINTAIN 80" MIN. DEPTH CROSSING
 OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
 PROP. 4'X4' BORE PITS
 AT EACH HH LOCATION



SEE PROFILE
 SHEET #45.1

SEE SHEET 43 TO MATCH SURVEY STA. 262+20

CUBE SMART SELF STORAGE
 9720 HARLEM RD
 RICHMOND, TX 77407

***** NOTE *****
 UTILITY & R.O.W. REPRESENTED ON
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 INFORMATION, NOT BASED ON
 BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
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 PRIOR TO CONSTRUCTION

***** NOTE *****
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 A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
 THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
 EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
 SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
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 LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
 Call before you dig.

CALL BEFORE YOU DIG
 1-800-245-4545
 48 HOURS NOTICE REQUIRED



PROJECT: 1708A02Q.040

PECAN GROVE TO CINCO RANCH
 CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	202'
PULL 1-864F CABLE	402'
1-2" STAND OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6M STRAND	1041'
LASH 1-864F CABLE	1041'

MCT ODEM/INTEGRATION
 ACCESS TRANSMISSION SERVICES CORP.
 OUTSIDE PLANT CONSTRUCTION
 TITLE: FIBER OPTIC CABLE ROUTE
 PECAN GROVE TO CINCO RANCH
 CINCO RANCH CELL SITE - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
 CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
 SHALL REMAIN THE PROPERTY OF MCT
 TRANSMISSION SERVICES, INC. AND NOT BE
 LOANED, REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
 WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 45 OF 86

FILE: 1708A02Q.040-45AC.BEL.DWG

RICHMOND, TX
 FORT BEND COUNTY
 SEE SHEET 46 TO MATCH SURVEY STA. 280+44

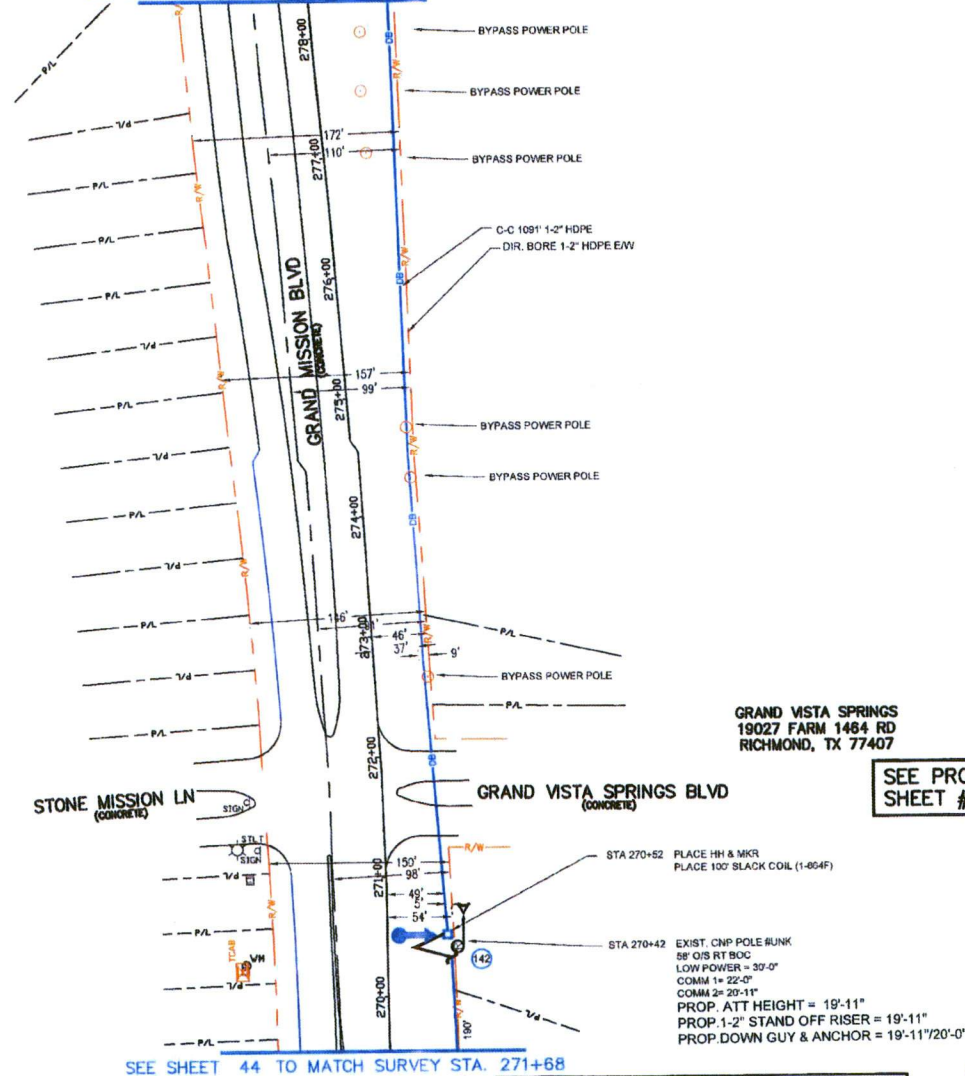
NOTE:
 CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
 EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
 WITH CENTERPOINT ENERGY AT 832-842-8275 TO VERIFY IF
 GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
 IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
 CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
 brianh@binkleyfield.com OR BY PHONE (713) 869-3433
 AT LEAST 48 HOURS PRIOR TO START OF
 CONSTRUCTION.

NOTE:
 CONTRACTOR TO MAINTAIN 6" MIN. DEPTH CROSSING
 OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
 PROP. 4"x4" BORE PITS
 AT EACH HH LOCATION



GRAND VISTA SPRINGS
 19027 FARM 1464 RD
 RICHMOND, TX 77407

SEE PROFILE
 SHEET #46.1

SEE SHEET 44 TO MATCH SURVEY STA. 271+68

***** NOTE *****
 UTILITY & R.O.W. REPRESENTED ON
 PLANS ARE BASED ON RECORDS
 INFORMATION. NOT BASED ON
 BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
 CONTRACTOR TO LOCATE &
 VERIFY ALL EXISTING UTILITIES
 PRIOR TO CONSTRUCTION

***** NOTE *****
 ALL UTILITIES MUST BE VERIFIED BY POTHOLING
 A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
 THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
 EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
 SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
 AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
 LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
 Call before you dig.

CALL BEFORE YOU DIG
 1-800-245-4545
 48 HOURS NOTICE REQUIRED



PROJECT: 1708A020.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	225'
PULL 1-864F CABLE	425'
1-2" STAND OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6N STRAND	651'
LASH 1-864F CABLE	651'

MCI COMMUNICATIONS SERVICES CORP.
 ACCESS TRANSMISSION SERVICES CORP.
 OUTSIDE PLANT CONSTRUCTION
 TITLE: FIBER OPTIC CABLE ROUTE
 PECAN GROVE TO CINCO RANCH
 CINCO RANCH CELL SITE, TX 77065
 OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

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 CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
 SHALL BECOME THE PROPERTY OF THE ENGINEER
 AND SHALL BE KEPT IN STRICT CONFIDENCE AND SHALL NOT BE
 REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
 WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 46 OF 86

FILE: 1708A020.040-ACAC.BEL.DWG

RICHMOND, TX
FORT BEND COUNTY
SEE SHEET 47 TO MATCH SURVEY STA. 289+18



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

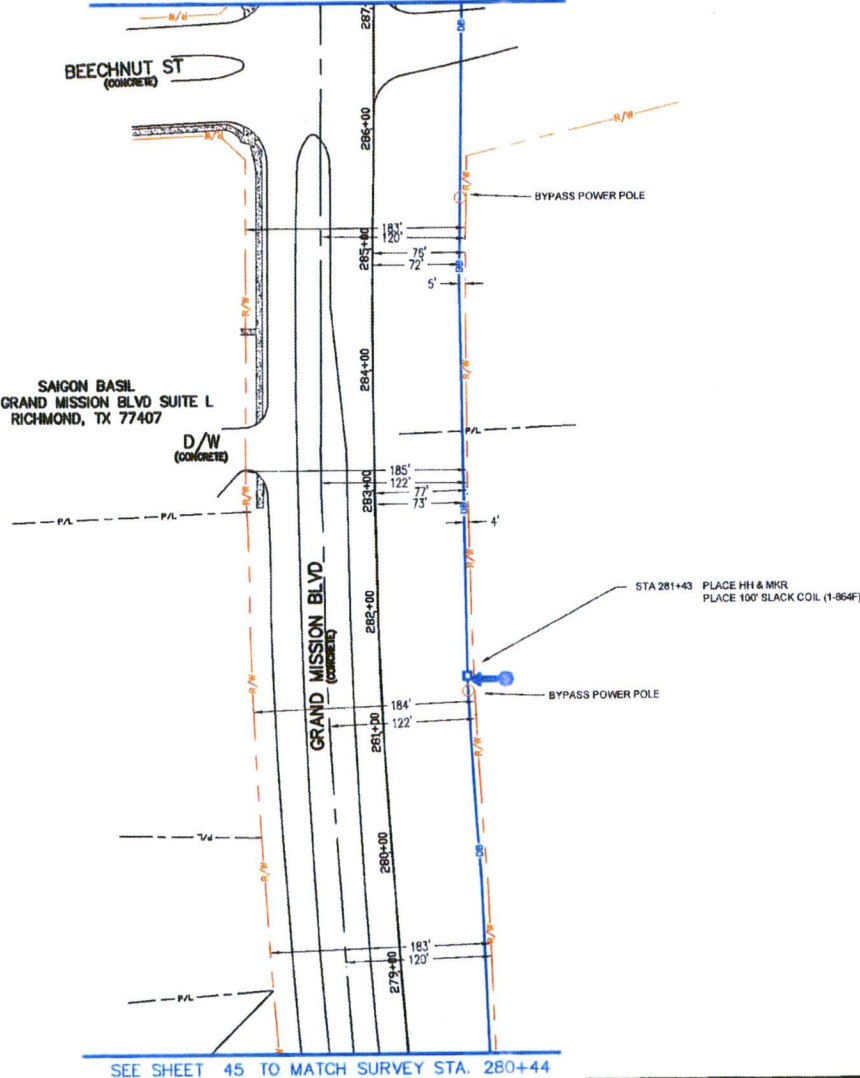
CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bah@binklebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSINGS
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

SAIGON BASIL
8710 GRAND MISSION BLVD SUITE L
RICHMOND, TX 77407



SEE PROFILE
SHEET #47.1

PROJECT: 1708ADZ0.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HAND-HOLE	1
PLACE MARKER	1
PREP. 1-2" HDPE	557'
PULL 1-864F CABLE	657'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6W STRAND	317'
LASH 1-864F CABLE	417'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77066
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-
-	-	-
-	-	-
-	-	-
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-	-	-
-	-	-
-	-	-
-	-	-

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CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL BE THE PROPERTY OF MCI COMMUNICATIONS
SERVICES CORP. AND SHALL REMAIN THE PROPERTY
OF MCI COMMUNICATIONS SERVICES CORP. AND SHALL NOT BE
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SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 47 OF 86

FILE: 1708ADZ0.040-47AC.BEL.BWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
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VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
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A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
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CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 48 TO MATCH SURVEY STA. 297+90

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

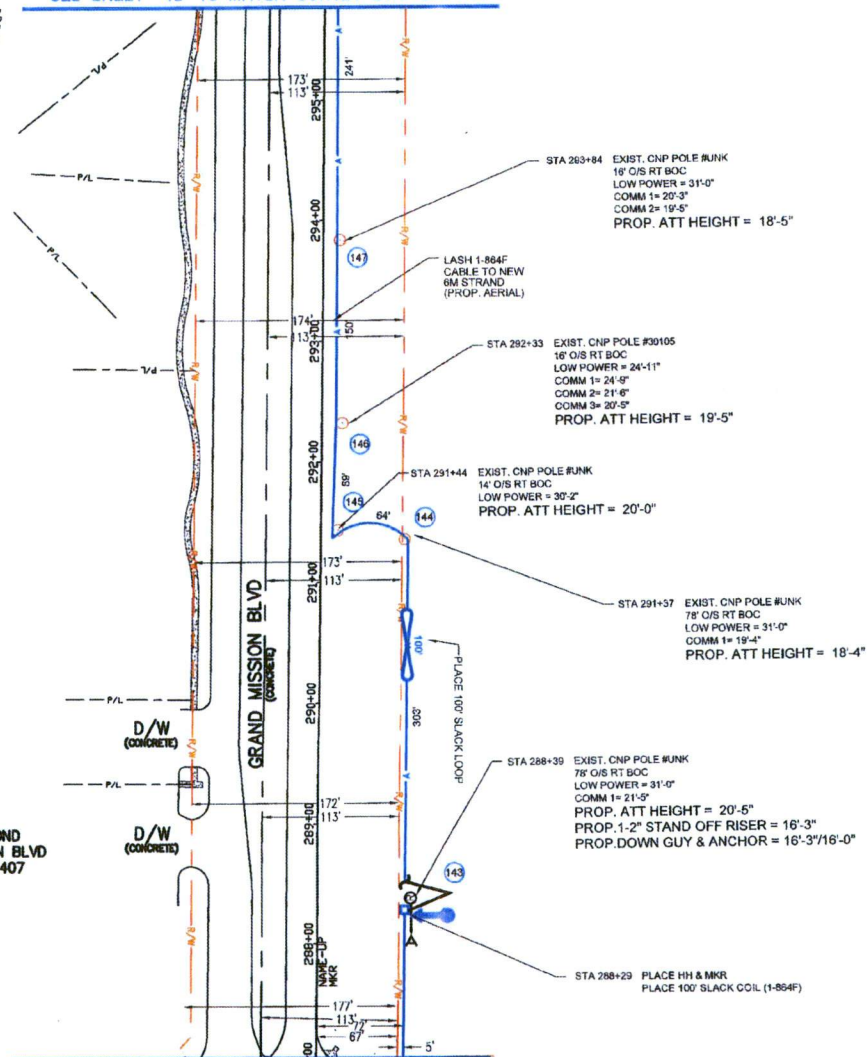
CONTRACTOR:
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48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
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b.hugman@bentley.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"X4" BORE PITS
AT EACH HH LOCATION

CHEVRON RICHMOND
8850 GRAND MISSION BLVD
RICHMOND, TX 77407



SEE SHEET 46 TO MATCH SURVEY STA. 289+18

SEE PROFILE
SHEET #48.1



PROJECT: 1708ADZ0.040

PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	133'
PULL 1-864F CABLE	839'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6N STRAND	739'
LASH 1-864F CABLE	901'

MCI COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE, TX
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

NOTICE: ALL INFORMATION PROVIDED BY
CONTRACTOR, USER, SUPPLIER, AND SUB-CONTRACTORS
IS TO BE USED FOR THE PROJECT ONLY. IT IS NOT
TO BE REPRODUCED OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 48 OF 86

FILE: 1708ADZ0.040-48AC.BEL.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION III
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POINHLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION II
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

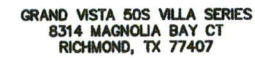
CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS' NOTICE REQUIRED



SEE SHEET 49 TO MATCH SURVEY STA. 306+63



NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

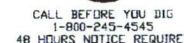


SEE SHEET 47 TO MATCH SURVEY STA. 297+90

CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELEFTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-Holing
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

Know what's below.
Call before you dig.



FILE: 1708ADZQ 040-49AC. BEL. DYG

RESIDENTIAL
8027 THORNCROFT MANOR LN
RICHMOND, TX 77407

GRAND MISSION BLVD
(formerly)

STATIONING: 304+00, 305+00, 306+00, 307+00, 308+00, 309+00, 310+00, 311+00

Labels on the right side of the plan view:

- BYPASS POWER POLE
- BYPASS POWER POLE
- C-C 1182' 1-2" HDPE
- DIR. BORE 1-2" HDPE E/W
- BYPASS POWER POLE
- BYPASS POWER POLE
- BYPASS POWER POLE
- STA 304+63 PLACE H1 & MKR
- PLACE 100' SLACK COIL (1-864F)

SEE SHEET 48 TO MATCH SURVEY STA. 306+63

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

NORTH



NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION



CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELEFTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

0000 NOTE 0000
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

FILE:1708ADZQ.040-51AC.BEL.DWG

RICHMOND, TX
 FORT BEND COUNTY
 SEE SHEET 52 TO MATCH SURVEY STA. 334+38



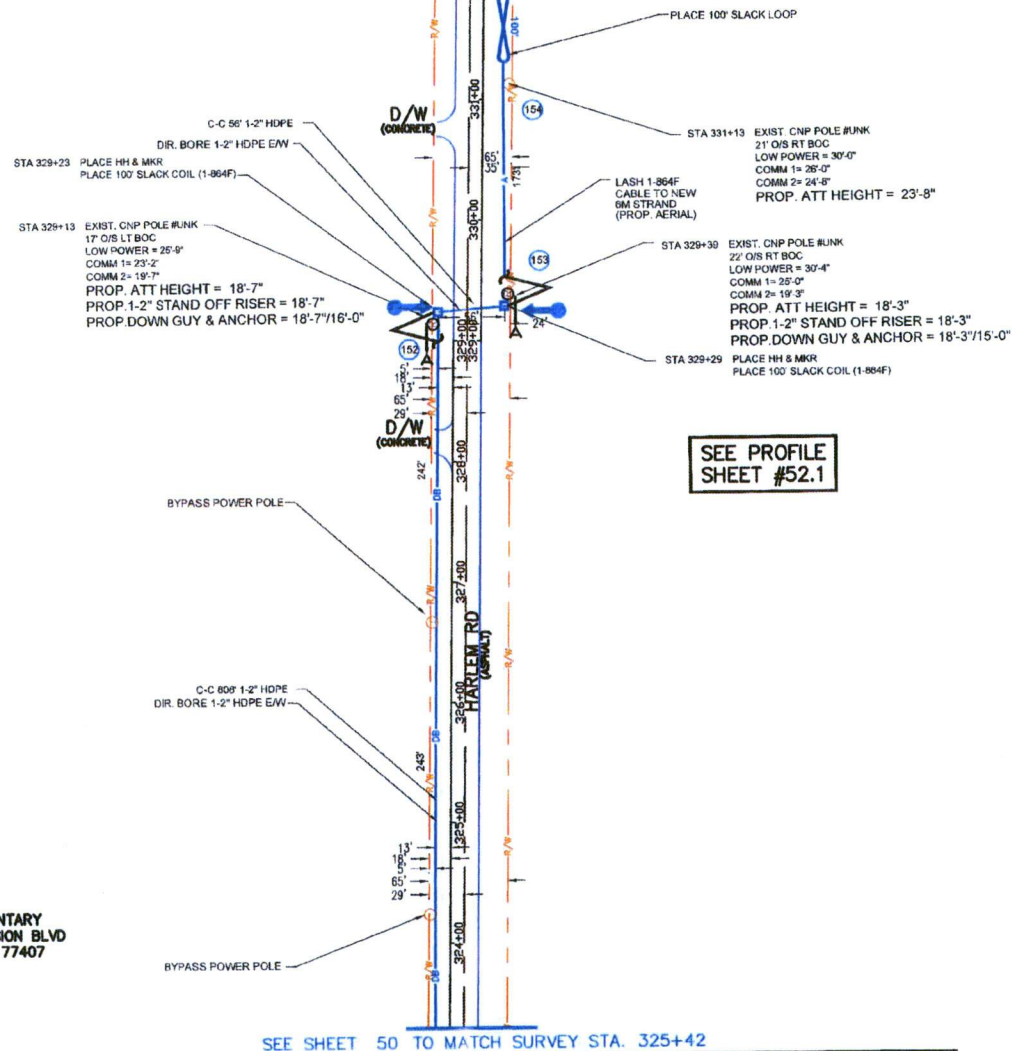
NOTE:
 CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
 EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
 WITH CENTERPOINT ENERGY AT 832-642-8275 TO VERIFY IF
 GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
 IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
 CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
 bhh@binkleyfield.com OR BY PHONE (713) 869-3433
 AT LEAST 48 HOURS PRIOR TO START OF
 CONSTRUCTION.

NOTE:
 CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
 OF ROADWAYS, DRIVEWAYS, AND CULVERTS

NOTE:
 PROP. 4'X4' BORE PITS
 AT EACH HH LOCATION



SEQUIN ELEMENTARY
 7817 GRAND MISSION BLVD
 RICHMOND, TX 77407

SEE SHEET 50 TO MATCH SURVEY STA. 325+42

NOTE:
 UTILITY & R.O.W. REPRESENTED ON
 PLANS ARE BASED ON RECORDS
 INFORMATION. NOT BASED ON
 BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
 CONTRACTOR TO LOCATE &
 VERIFY ALL EXISTING UTILITIES
 PRIOR TO CONSTRUCTION

NOTE:
 ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
 A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
 THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
 EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
 SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
 AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
 LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH
 CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HAND-HOLE	2
PLACE MARKER	2
PROP. 1-8" HDPE	78'
PULL 1-864F CABLE	278'
1-2" STAND OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6M STRAND	871'
LASH 1-864F CABLE	971'

ACCESS TRANSMISSION SERVICES CORP.
 OUTSIDE PLANT CONSTRUCTION
 TITLE: FIBER OPTIC CABLE ROUTE
 PECAN GROVE TO CINCO RANCH
 CINCO RANCH CELL SITE, TX 77406
 OUTSIDE PLANT - PLAN

DATE: 11/28/2017
 ENGINEER: GXT/JJ
 DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
 CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
 SHALL REMAIN THE PROPERTY OF MCI
 COMMUNICATIONS SERVICES, INC. WITH NO
 RIGHTS IN THE SAME OR INCLUDING THEM MAY BE
 REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
 WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE
 HORIZONTAL: 1"=100'
 VERTICAL: 1"=100'
 MP TO MP
 SHEET 52 OF 86

CALL BEFORE YOU DIG
 1-800-245-4545
 48 HOURS NOTICE REQUIRED
 FILE: 1708ADZQ. 040-52AC. REL. DWG

RICHMOND, TX
 FORT BEND COUNTY
 SEE SHEET 53 TO MATCH SURVEY STA. 343+10

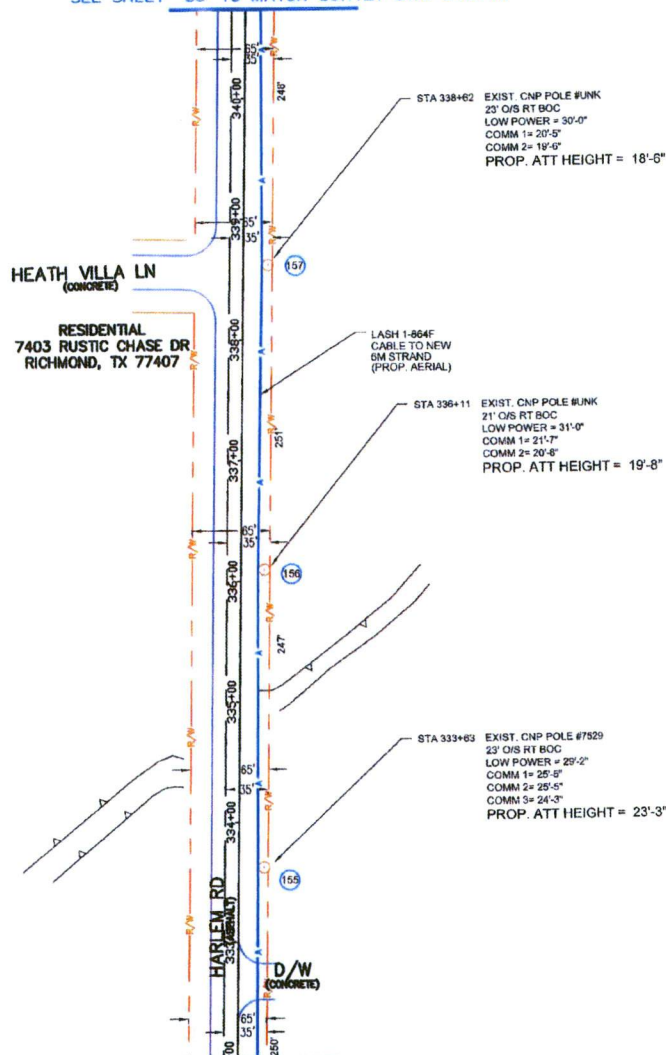


NOTE:
 CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
 EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
 WITH CENTERPOINT ENERGY AT 832-642-8278 TO VERIFY IF
 GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
 IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
 CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
 brianh@binkbarfield.com OR BY PHONE (713) 869-3413
 AT LEAST 48 HOURS PRIOR TO START OF
 CONSTRUCTION.

NOTE:
 PROP. 4'X4' BORE FITS
 AT EACH HW LOCATION



SEE SHEET 51 TO MATCH SURVEY STA. 334+38

NOTE:
 UTILITY & R.O.W. REPRESENTED ON
 PLANS ARE BASED ON RECORDS
 INFORMATION, NOT BASED ON
 BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
 CONTRACTOR TO LOCATE &
 VERIFY ALL EXISTING UTILITIES
 PRIOR TO CONSTRUCTION

NOTE:
 ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
 A 10" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
 THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
 EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
 SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
 AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
 LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
 Call before you dig.



CALL BEFORE YOU DIG
 1-800-245-4545
 48 HOURS NOTICE REQUIRED

PROJECT: 1708A02Q.040

PECAN GROVE TO CINED RANCH
 CINED RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE 6M STRAND	872'
LASH 1-864F CABLE	872'

NCI COMMUNICATIONS SERVICES CORP.
 ACCESS TRANSMISSION SERVICES CORP.
 OUTSIDE PLANT CONSTRUCTION
 TITLE: FIBER OPTIC CABLE ROUTE
 PECAN GROVE TO CINED RANCH
 CINED RANCH CELL SITE, TX, 77405
 OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
 CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
 SHALL REMAIN THE PROPERTY OF NCI. NO
 REPRODUCTION, COPIES, OR USE FOR ANY PURPOSE
 WITHOUT WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 53 OF 86

FILE: 1708A02Q.040-53AC, REL. DWG

RICHMOND, TX
 FORT BEND COUNTY
 SEE SHEET 54 TO MATCH SURVEY STA. 351+83



NOTE:
 CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
 EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
 WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
 GAS LINE IS ACTIVE OR ABANDONED.

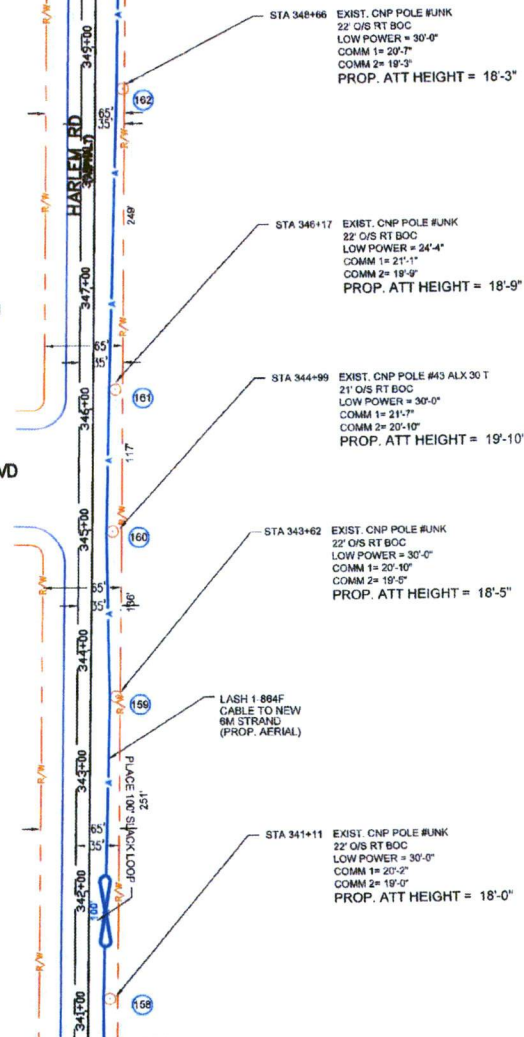
CONTRACTOR:
 IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
 CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
 beh@binkfield.com OR BY PHONE (713) 869-3433
 AT LEAST 48 HOURS PRIOR TO START OF
 CONSTRUCTION.

NOTE:
 PROP. 4'X4' BORE PITS
 AT EACH HH LOCATION

RESIDENTIAL
 7235 DESERT BLUFF LN
 RICHMOND, TX 77407

BELLAIRE BLVD
 (CONCRETE)



SEE SHEET 52 TO MATCH SURVEY STA. 343+10

***** NOTE *****
 UTILITY & R.O.W. REPRESENTED ON
 PLANS ARE BASED ON RECORDS
 INFORMATION. NOT BASED ON
 BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
 CONTRACTOR TO LOCATE &
 VERIFY ALL EXISTING UTILITIES
 PRIOR TO CONSTRUCTION

***** NOTE *****
 ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
 A 10" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
 THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
 EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
 SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
 AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
 LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
 Call before you dig.



CALL BEFORE YOU DIG
 1-800-245-4545
 48 HOURS NOTICE REQUIRED

PROJECT: 1708ADZQ.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE 6M STRAND 873'

LASH 1-864F CABLE 973'

KATY, TX
FORT BEND COUNTY
SEE SHEET 57 TO MATCH SURVEY STA. 366+95



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

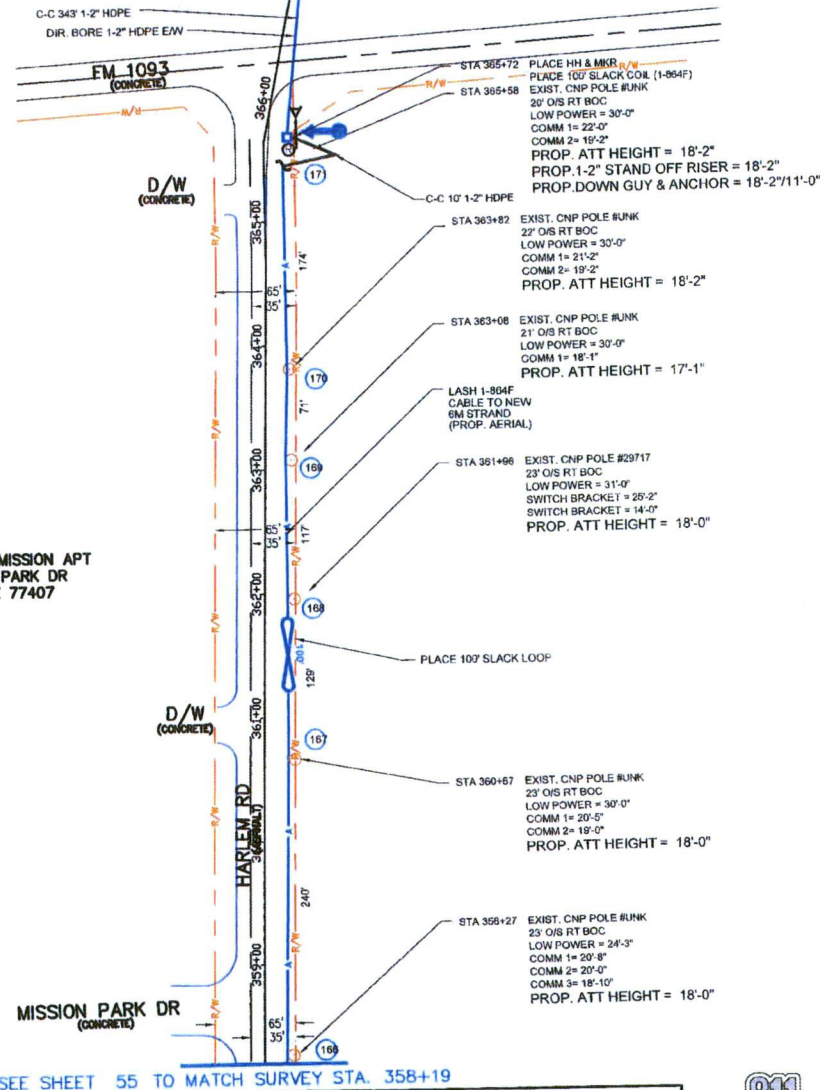
NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bh@binkhabarfield.com OR BY PHONE (713) 889-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

SEE PROFILE
SHEET #56.1

DESEO AT GRAND MISSION APT
19002 MISSION PARK DR
RICHMOND, TX 77407



SEE SHEET 55 TO MATCH SURVEY STA. 358+19

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1708ADQ.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HAND-HOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	137'
PULL 1-864F CABLE	237'
1-2" STAND OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6M STRAND	739'
LASH 1-864F CABLE	639'

ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
DRAFTED BY THE PROJECT ENGINEER AND SPECIFICATIONS
ENGINEER. NO FIELD CONFIRMATION AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 36 OF 86

FILE: 1708ADQ.040-56AC.BEL.DW

ROSENBERG, TX
FORT BEND COUNTY

PROFILE
CROSSING WESTPARK TOLL RD & FM 1093
LOOKING WEST

SCALE:
HOR: 1" = 100'
VER: 1" = 50'



PROJECT: 170BA070.086

PERMANENT ELEVATION RECORD

CLINIC BOUNDARY SHEET, DATE 7/7/06

CLARIFICATION NO. QUANTITY

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NCI QUINCY
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PERMANENT ELEVATION RECORD
CLINIC BOUNDARY SHEET, DATE 7/7/06
OUTSIDE PLANT CONSTRUCTION

DATE: 10/20/2017

ENGINEER: GXT/WM

DRAWN BY: GXT

REVISIONS

DATE DESCRIPTION INITIAL

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EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THIS DRAWING AND SPECIFICATION
SHALL BE THE PROPERTY OF THE ENGINEER.
IT IS THE RESPONSIBILITY OF THE CONTRACTOR
TO PROTECT ALL UTILITIES AND SHALL NOT BE
RESPONSIBLE FOR ANY DAMAGE TO UTILITIES
WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=50'

MP TO MP

SHEET 56.1 OF 98

FILE 170BA070.086\056.1.MC.BEL.DWG



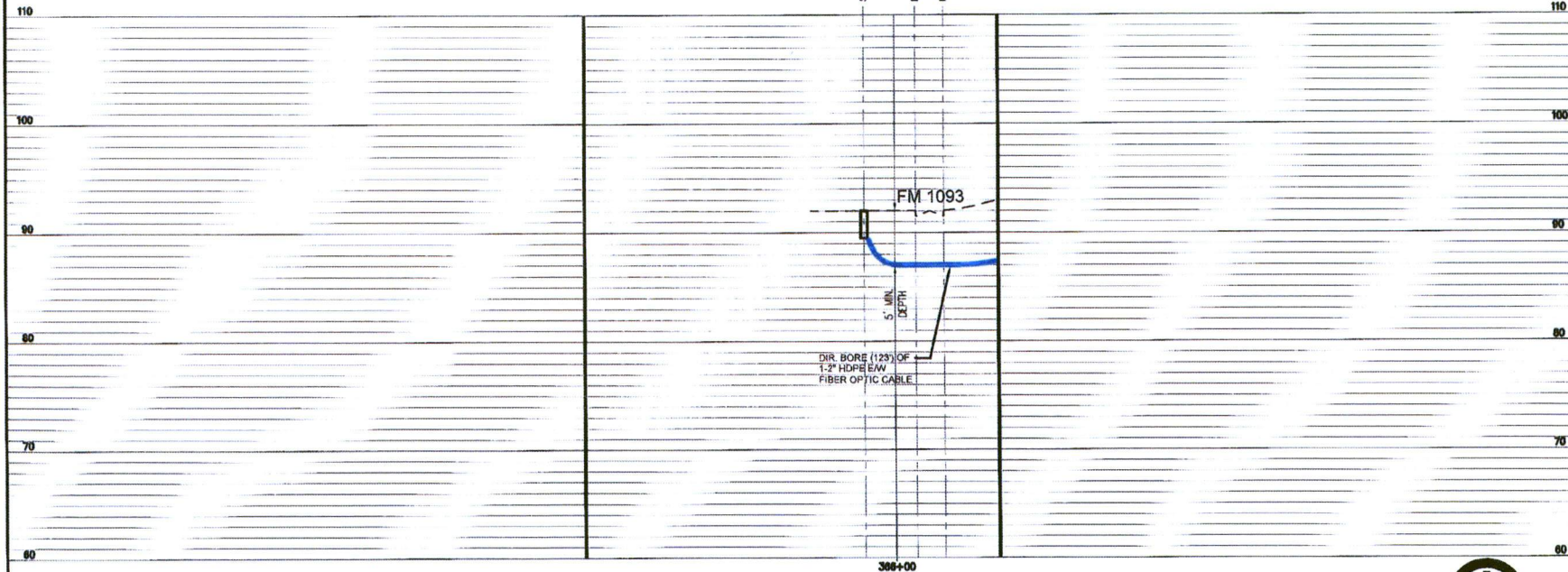
CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE
UTILITY & FLOW REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.



KATY, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-442-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

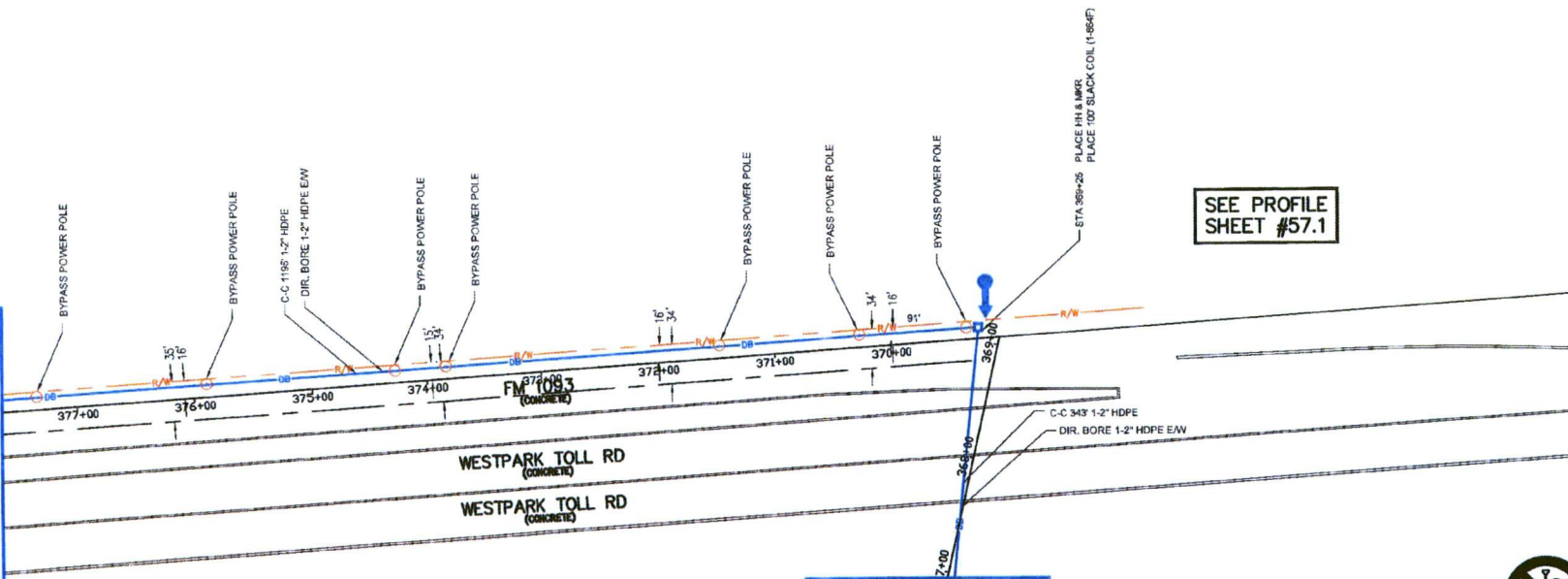
NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bhh@binklebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

THE GROUND UP
19102 FM 1093
RICHMOND, TX 77407

SEE SHEET 57 TO MATCH SURVEY STA. 380+01



SEE SHEET 55 TO MATCH SURVEY STA. 369+31

SEE PROFILE
SHEET #57.1

PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	240'
PULL 1-864F CABLE	340'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6M STRAND	830'
LASH 1-864F CABLE	830'

NCL DESIGN/CONSTRUCTION SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CELL SITE - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL BE THE PROPERTY OF NCL
CONSTRUCTION SERVICES CORP. NO REUSE
SHALL BE PERMITTED WITHOUT THE WRITTEN
CONSENT OF NCL CONSTRUCTION SERVICES CORP.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 57 OF 06

FILE: 1708ADZQ. 040-57AC. RCL.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



KATY, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-8275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE T&OT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bhu@brianhugman.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 80" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

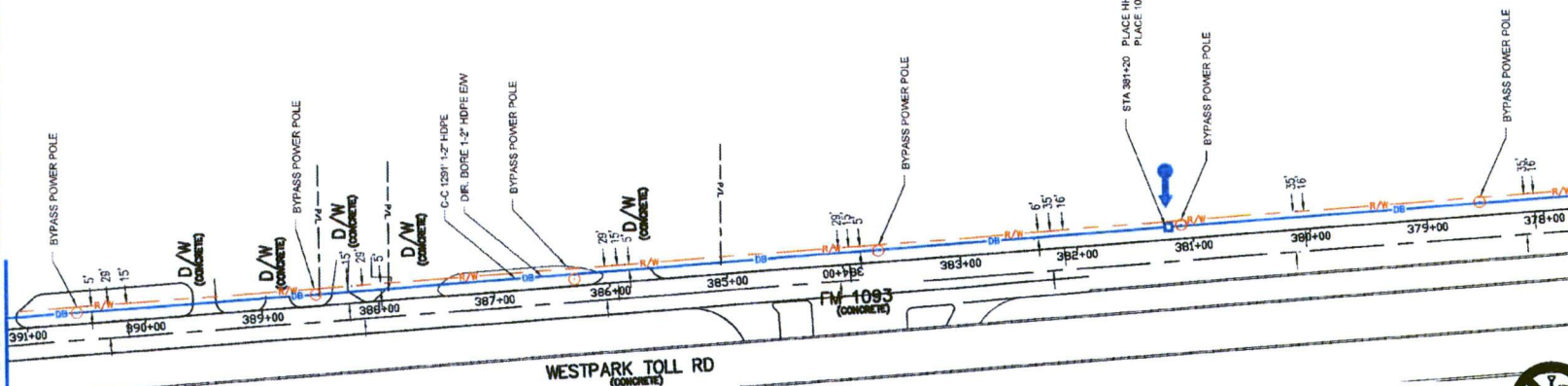
NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

SEE PROFILE
SHEET #20

CALIBER COLLISION
19350 FM 1093
RICHMOND, TX 77407

SEE SHEET 58 TO MATCH SURVEY STA. 393+54

SEE SHEET 56 TO MATCH SURVEY STA. 380+01



**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708ADZQ. 040

PEDAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE HANDHOLE 1

PLACE MARKER 1

PROP. 1-2" HDPE 784'

PULL 1-864F CABLE 984'

1-2" STAND OFF RISER 1

DOWN GUY & ANCHOR 1

PLACE 6N STRAND 605'

LASH 1-864F CABLE 705'

MCI DEDICATED
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PEDAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77405
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF THE
COMPANIES AND INDIVIDUALS, AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

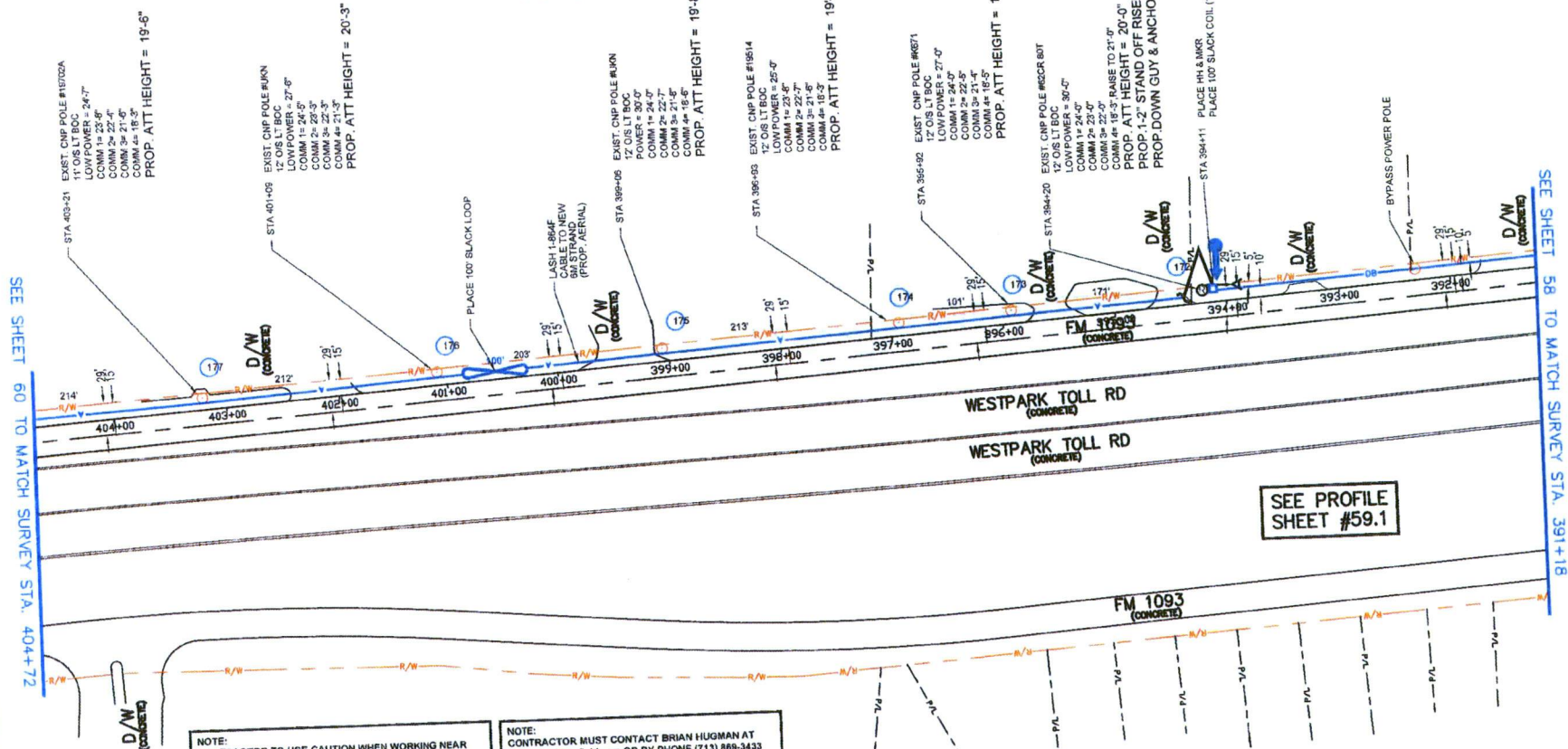
MP TO MP

SHEET 58 OF 86

FILE: 1708ADZQ. 040-58AC. 3EL. DWG

KATY, TX
FORT BEND COUNTY

CINCO RANCH RV PARK
19510 FM 1093
RICHMOND, TX 77407



SEE PROFILE
SHEET #59.1

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bah@binklebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708AQZQ.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	302'
FULL 1-864F CABLE	402'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6H STRAND	1052'
LASH 1-864F CABLE	1152

McInetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INIT.

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
ARE THE PROPERTY OF THE ENGINEER. NO PART
HEREOF IS TO BE REPRODUCED OR TRANSMITTED
IN ANY FORM OR BY ANY MEANS, ELECTRONIC
OR MECHANICAL, INCLUDING PHOTOCOPYING,
RECORDING, OR BY ANY INFORMATION STORAGE
AND RETRIEVAL SYSTEM, WITHOUT SPECIFIC
WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 59 OF 59

FILE: 1708AQZQ.040-59AC.BEL

KATY, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

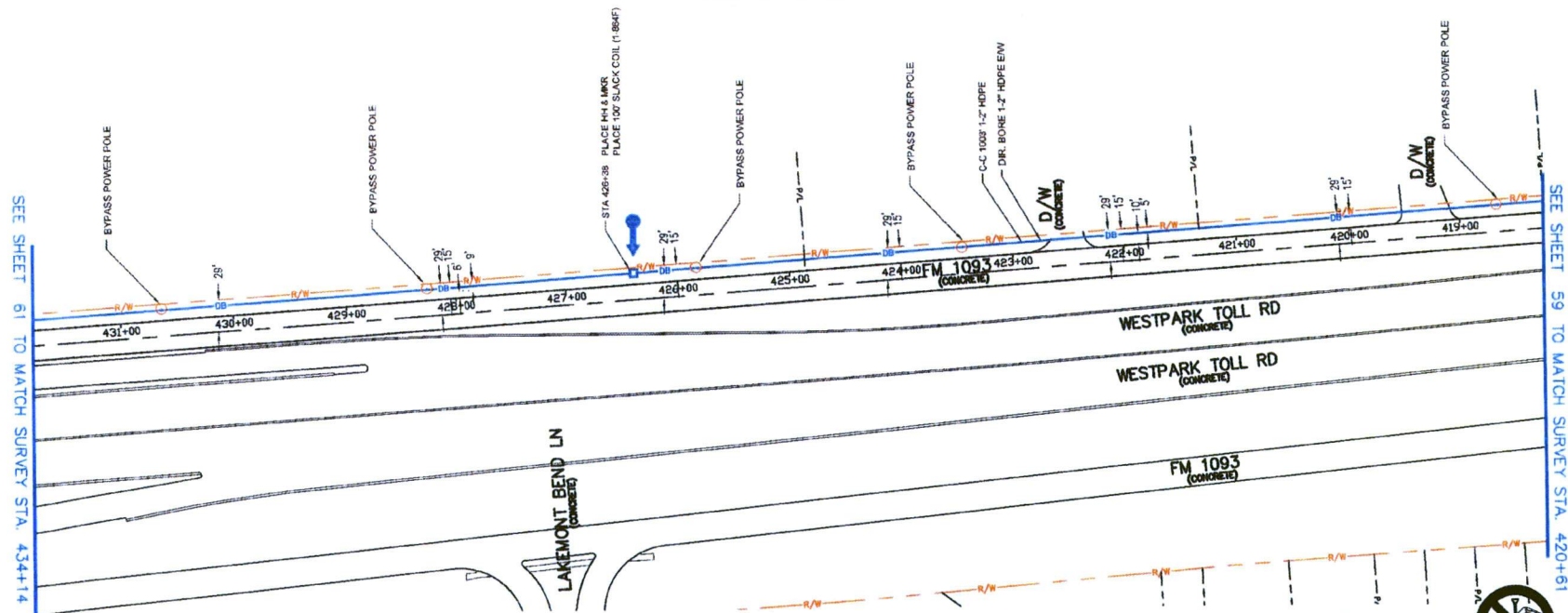
NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bahu@thinkbarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

FORT BEND TAEKWONDO
19830 FM 1093
RICHMOND, TX 77407

SEE PROFILE
SHEET #20



SEE SHEET 61 TO MATCH SURVEY STA. 424+14

SEE SHEET 59 TO MATCH SURVEY STA. 420+61

PROJECT: 1708ADZQ.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	240'
PULL 1-864F CABLE	340'
1-2" STAND OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6N STRAND	1113'
LASH 1-864F CABLE	1113'

NCI QUINIMARCA
ACCESS TRASSWISSEN SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

SHEET AS MAY BE OTHERWISE PROVIDED BY
ENGINEER. THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF NCI
ENGINEERING. REVISIONS AND NOT BEING
ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 61 OF 86

FILE: 1708ADZQ.040-61AC.MEL.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT
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Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



KATY, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-442-5275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

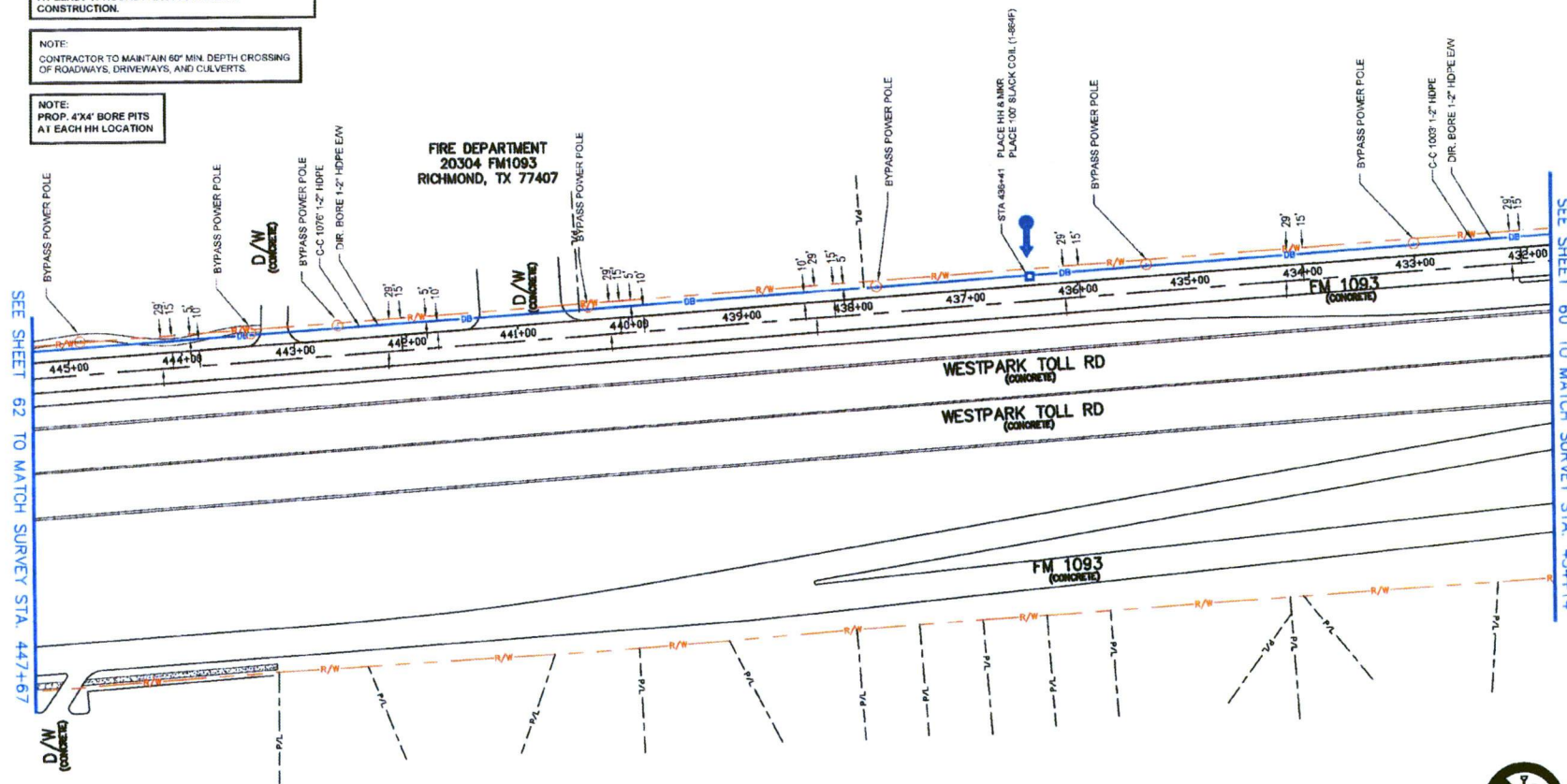
CONTRACTOR
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bah@binklebarfield.com OR BY PHONE (713) 860-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

SEE PROFILE
SHEET #20



FIRE DEPARTMENT
20304 FM1093
RICHMOND, TX 77407

SEE SHEET 60 TO MATCH SURVEY STA. 434+14

SEE SHEET 62 TO MATCH SURVEY STA. 447+67

PROJECT: 1709A020.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	553'
PULL 1-864F CABLE	653'
1-2" STAND OFF RISER	1
TOWN GUY & ANCHOR	1
PLACE 6H STRAND	600'
LASH 1-864F CABLE	600'

NOT QUANTIFIED
ACCESS TRIPWIRE SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
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ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'
VERTICAL: 1"=100'

MP TO MP
SHEET 62 OF 86

FILE: 1709A020.040-62AC.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



KATY, TX
FORT BEND COUNTY



SEE PROFILE
SHEET #20

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

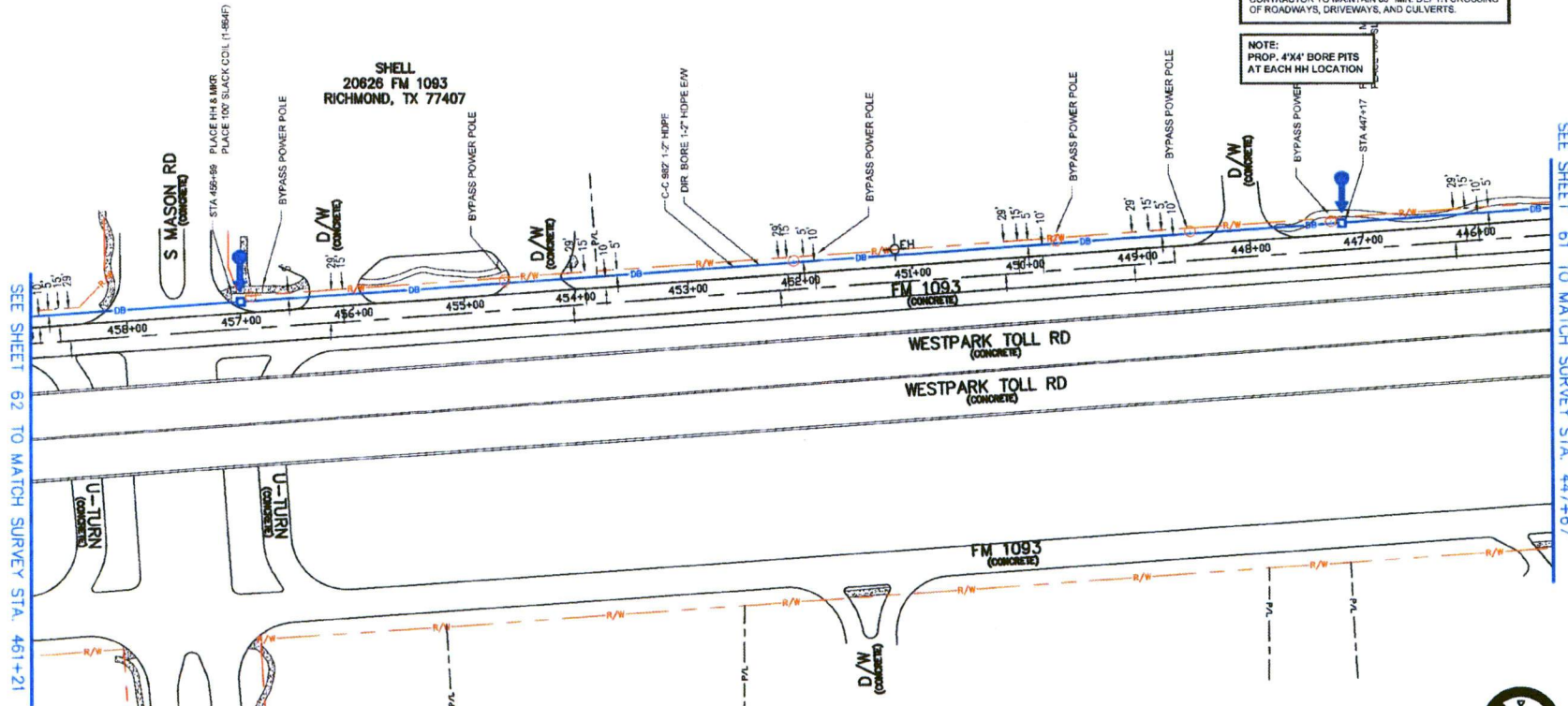
CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bsh@briandshugman.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"X4" BORE PITS
AT EACH HH LOCATION

SHELL
20626 FM 1093
RICHMOND, TX 77407



SEE SHEET 61 TO MATCH SURVEY STA. 447+67
SEE SHEET 62 TO MATCH SURVEY STA. 461+21

PROJECT: 1708ADZQ 040

PECAN GROVE TO CINCINNATI
CINCINNATI CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	1354'
PULL 1-864F CABLE	1554'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCINNATI
CINCINNATI CELL SITE - TX 77407
OUTSIDE PLANT - FPM

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
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SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM
OR BY ANY MEANS, ELECTRONIC OR MECHANICAL,
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 63 OF 86

FILE: 1708ADZQ 040-63AC REL. DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

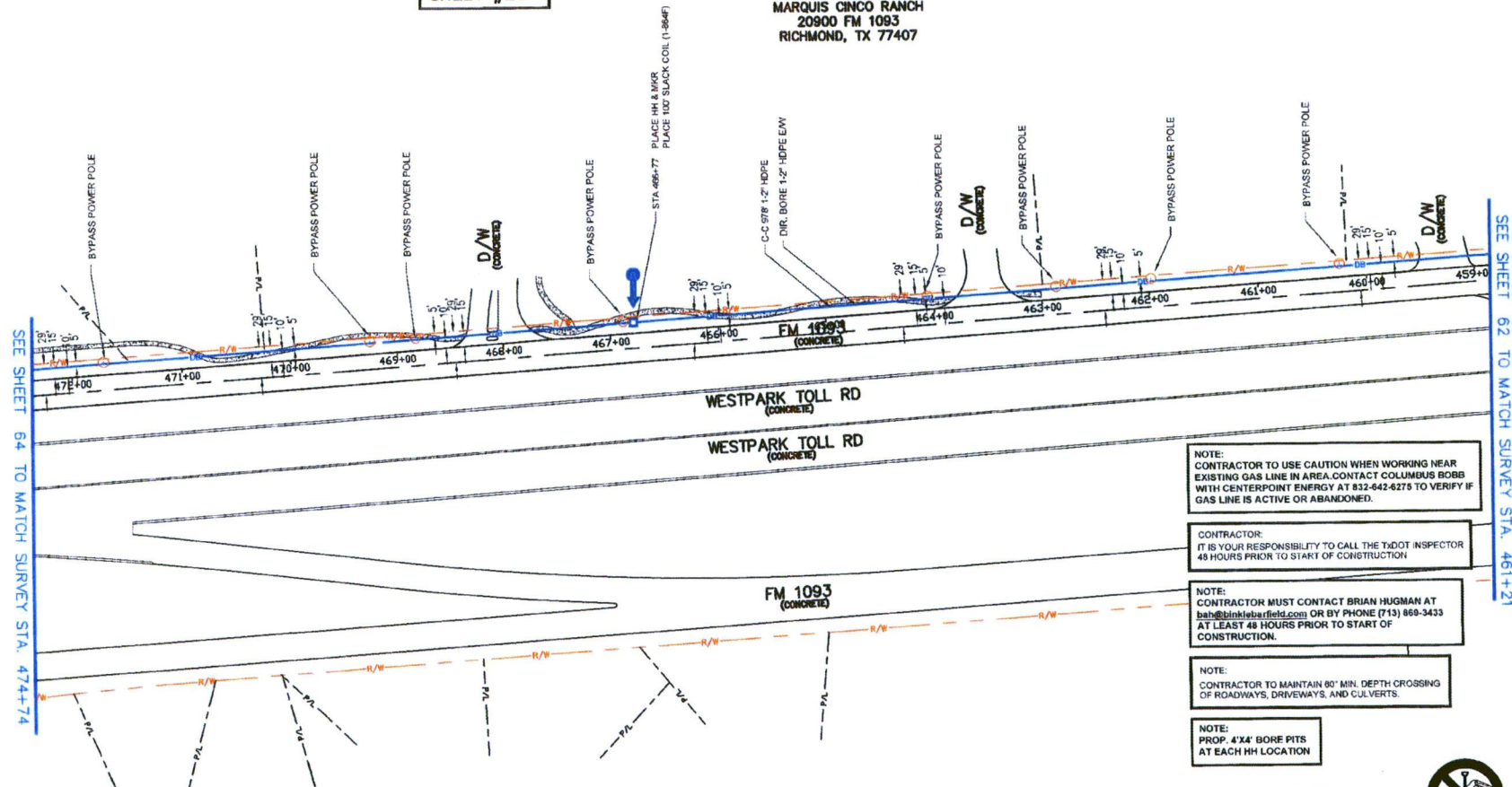


KATY, TX
FORT BEND COUNTY



SEE PROFILE
SHEET #20

MARQUIS CINCO RANCH
20900 FM 1093
RICHMOND, TX 77407



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
buh@binkleyfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60\"/>

NOTE:
PROP. 4\"/>

***** NOTE *****
UTILITY & R.O.W. REPRESENTED ON
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INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
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VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

***** NOTE *****
ALL UTILITIES MUST BE VERIFIED BY POTHOLING
A 18\"/>

CAUTION!!!
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SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
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Know what's below.
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CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708ADZQ.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	1041'
PULL 1-864F CABLE	1141'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6M STRAND	312'
LASH 1-864F CABLE	312'

MCI OCEANHUMANAIGAIN
ACCESS TRANSDUCER SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77407
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

EXCEPT AS NOT BE OTHERWISE PROVIDED BY
SPECIFICATIONS, THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF MCI. NO BEING
ISSUED TO EXIST CONTRACTORS AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE
HORIZONTAL: 1\"/>

KATY, TX
FORT BEND COUNTY

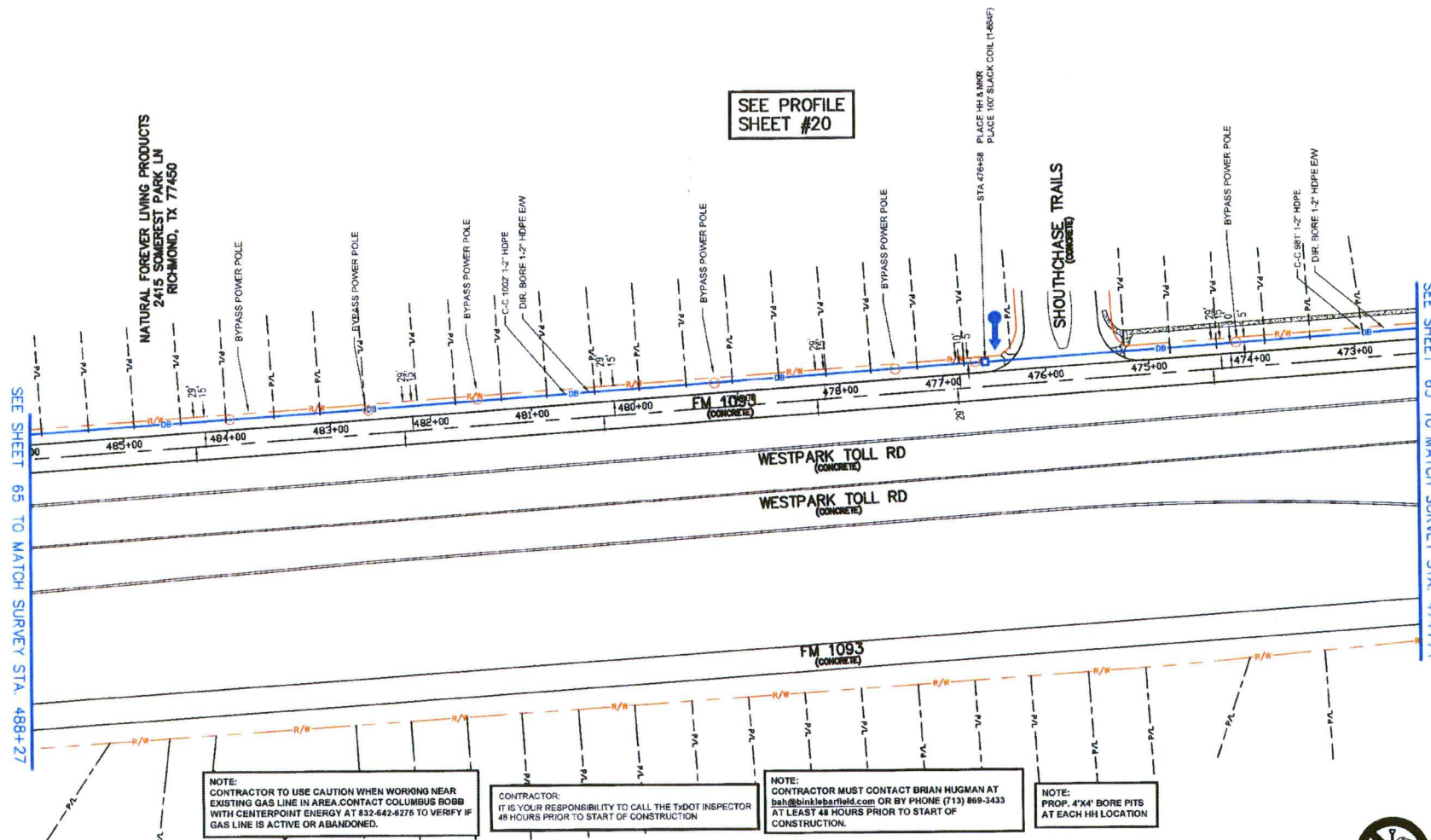


PROJECT: 1708ADZG. 040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE 6W STRAND	1353'
LASH 1-864F CABLE	1453'

SEE PROFILE
SHEET #20



SEE SHEET 65 TO MATCH SURVEY STA. 488+27

SEE SHEET 63 TO MATCH SURVEY STA. 474+74

MCI COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77405
OUTSIDE PLANT - PLAN

DATE: 11/20/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

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SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 65 OF 86

FILE: 1708ADZG. 040-65AC. BCL. DWG

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT bah@binklebarfield.com OR BY PHONE (713) 869-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
PROP. 4"x4" BORE PITS AT EACH HH LOCATION

NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION, NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

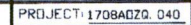
CAUTION !!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



SEE PROFILE
SHEET #20



MCJ COMMUNICATION
ACCESS TRANSMISSION SERVICES CORP.

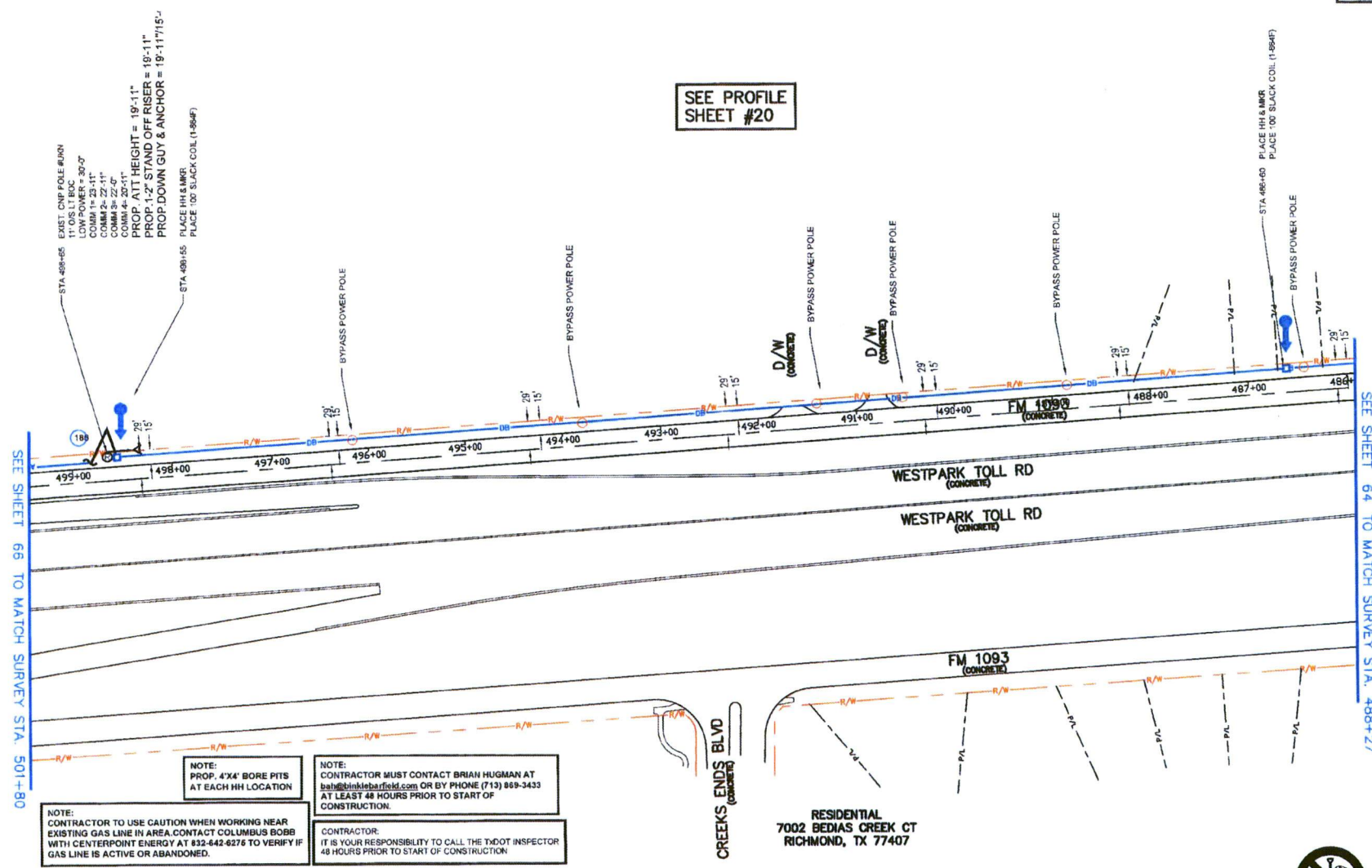
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO GUNBO RANCH
CHANDLER, ARIZONA
DISTRICT: ARIZONA

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIALS
-	-	-

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SCALE	
HORIZONTAL:	1"=100'
VERTICAL:	1"=100'
MP _____	TO MP _____
SHEET 66	OF 86
FILE: 170BA02Q.040-66AC.BEL.DA	



SEE SHEET 64 TO MATCH SURVEY STA. 480+2.

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bah@binklebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

RESIDENTIAL
7002 BEDIAS CREEK CT
RICHMOND, TX 77407

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELEPHIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
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1-800-245-4545
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**** NOTE****
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**CAUTION IIII
CONTRACTOR TO LOCATE &
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PRIOR TO CONSTRUCTION**

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POtholing
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

KATY, TX
FORT BEND COUNTY



PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCINNATI
CINCINNATI CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	465'
PULL 1-864F CABLE	565'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6H STRAND	888'
LASH 1-864F CABLE	988'

McIntire
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCINNATI
CINCINNATI CELL SITE

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INT

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 67 OF

FILE: 1708ADZQ. 040-67A.C

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

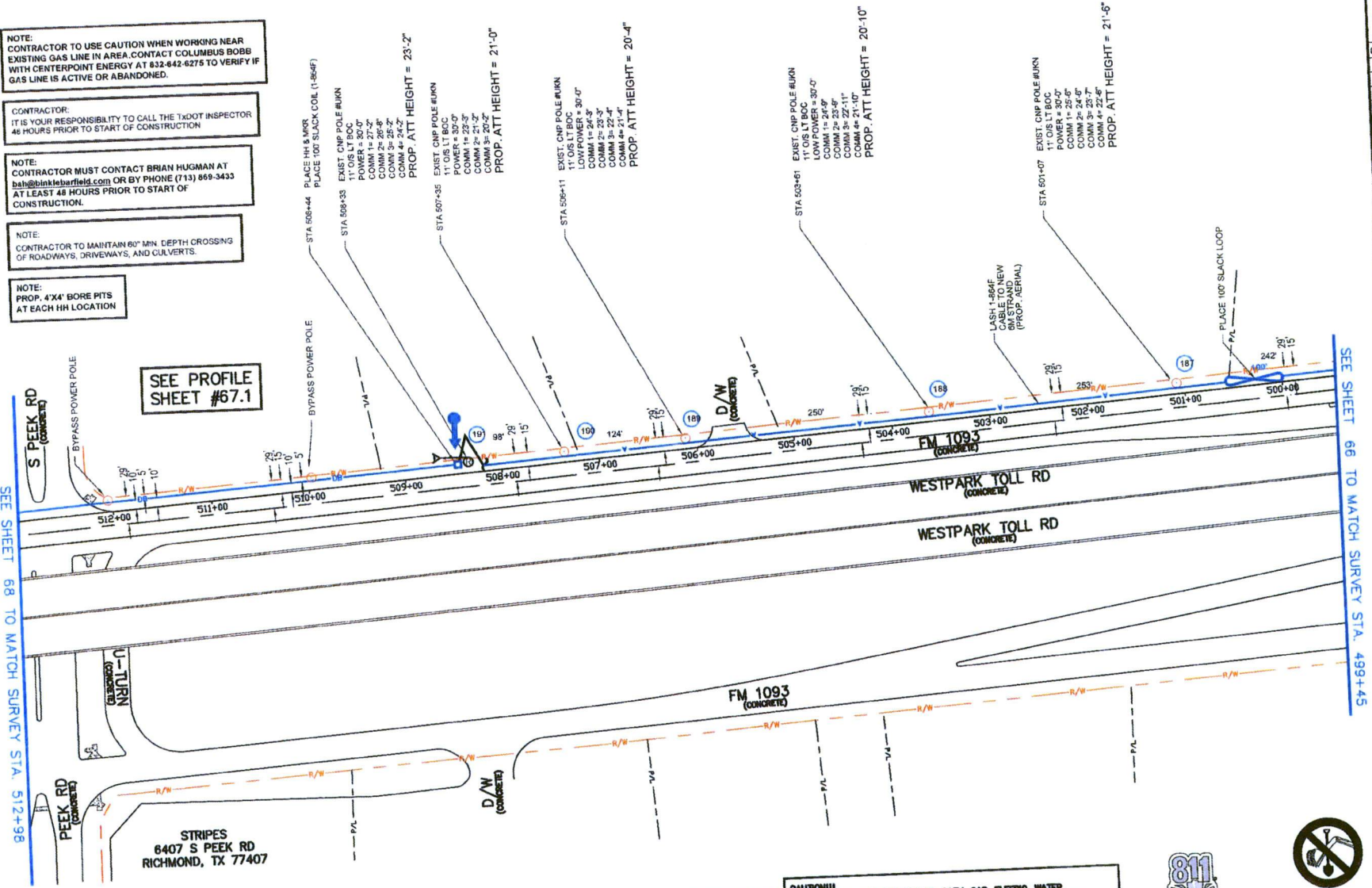
CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE XDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bhb@binkleybarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"X4" BORE PITS
AT EACH HH LOCATION

SEE PROFILE
SHEET #67.1



SEE SHEET 68 TO MATCH SURVEY STA. 512+98

SEE SHEET 66 TO MATCH SURVEY STA. 499+45

STRIPES
6407 S PEEK RD
RICHMOND, TX 77407

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

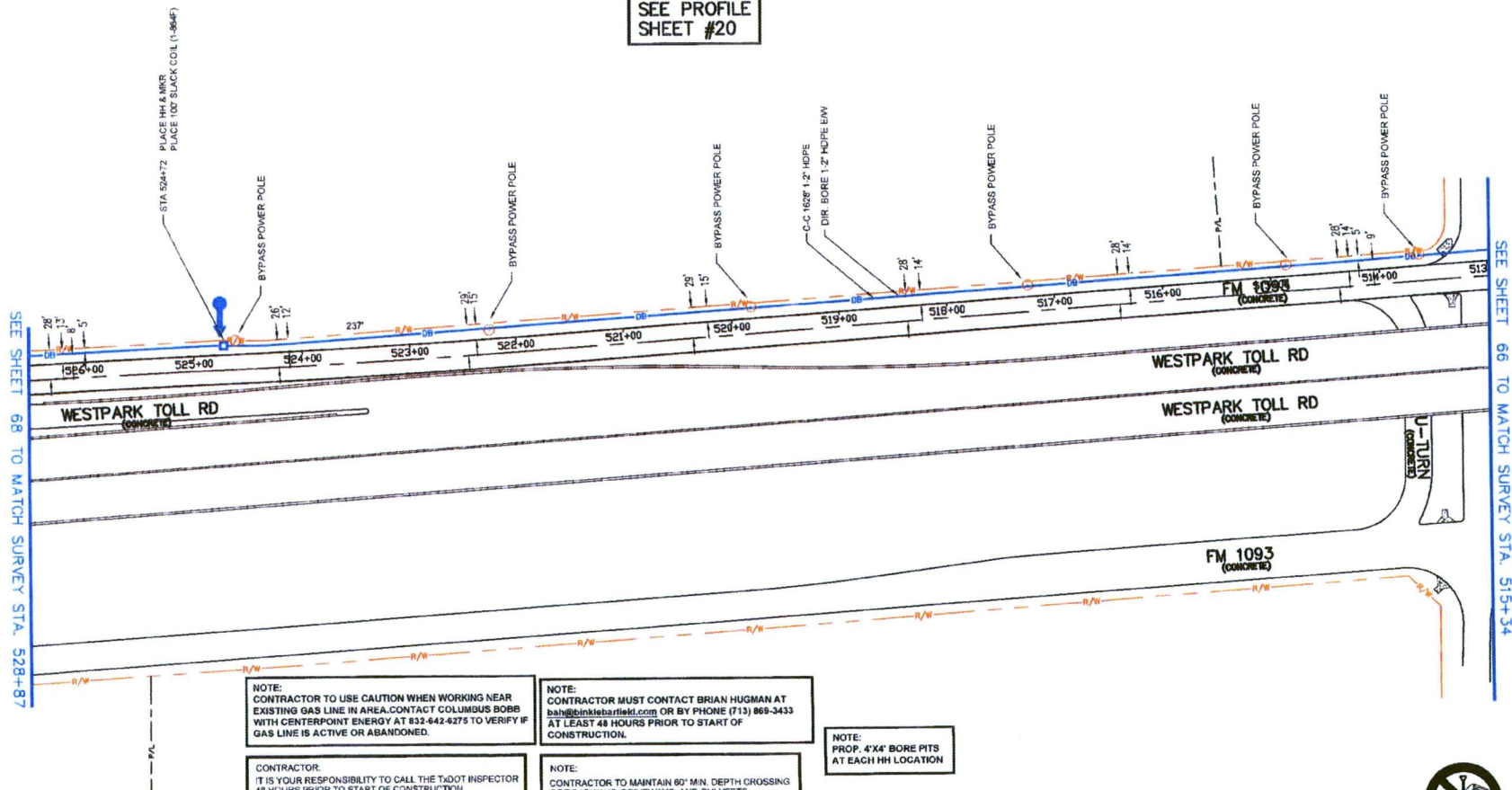


CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

KATY, TX
FORT BEND COUNTY

GRAND RIDGE CROSSING
22015 OAK MIST LN
KATY, TX 77494

SEE PROFILE
SHEET #20



**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

**CAUTION IIII
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION**

***** NOTE *****

ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELEFTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRAFOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
-------------------	----------

PLACE HANDHOLE	2
----------------	---

PLACE MARKER	2
--------------	---

PROP. 1-2' HDPE	477'
-----------------	------

PULL 1-864F CABLE	677'
-------------------	------

1-2' STAND OFF RISER	2
----------------------	---

DOWN GUY & ANCHOR	2
-------------------	---

PLACE 6N STRAND	976'
-----------------	------

LASH 1-B64F CABLE	1076'
-------------------	-------

MC1 INVESTIGATION
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCID RANCH
CINCID RANCH CELL SITE, TX 77068
OUTSIDE PLANT - PLANT

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

REVISIONS		
DATE	DESCRIPTION	INITIAL

DATE	DESCRIPTION	AMOUNT
10/1/80	1000	1000
10/2/80	1000	1000
10/3/80	1000	1000
10/4/80	1000	1000
10/5/80	1000	1000
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10/7/80	1000	1000
10/8/80	1000	1000
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12/30/80	1000	1000
12/31/80	1000	1000
1/1/81	1000	1000
1/2/81	1000	1000
1/3/81	1000	1000
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1/7/81	1000	1000
1/8/81	1000	1000

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REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

SCALE _____

HORIZONTAL: 1"=100'

VERTICAL 1"=100'

MP	TD MP
----	-------

MP 10 MP

SHEET 68 DF 86

FILE: 1706ADZQ, 040-68AC, BEL, DW

RED

KATY, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

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48 HOURS PRIOR TO START OF CONSTRUCTION

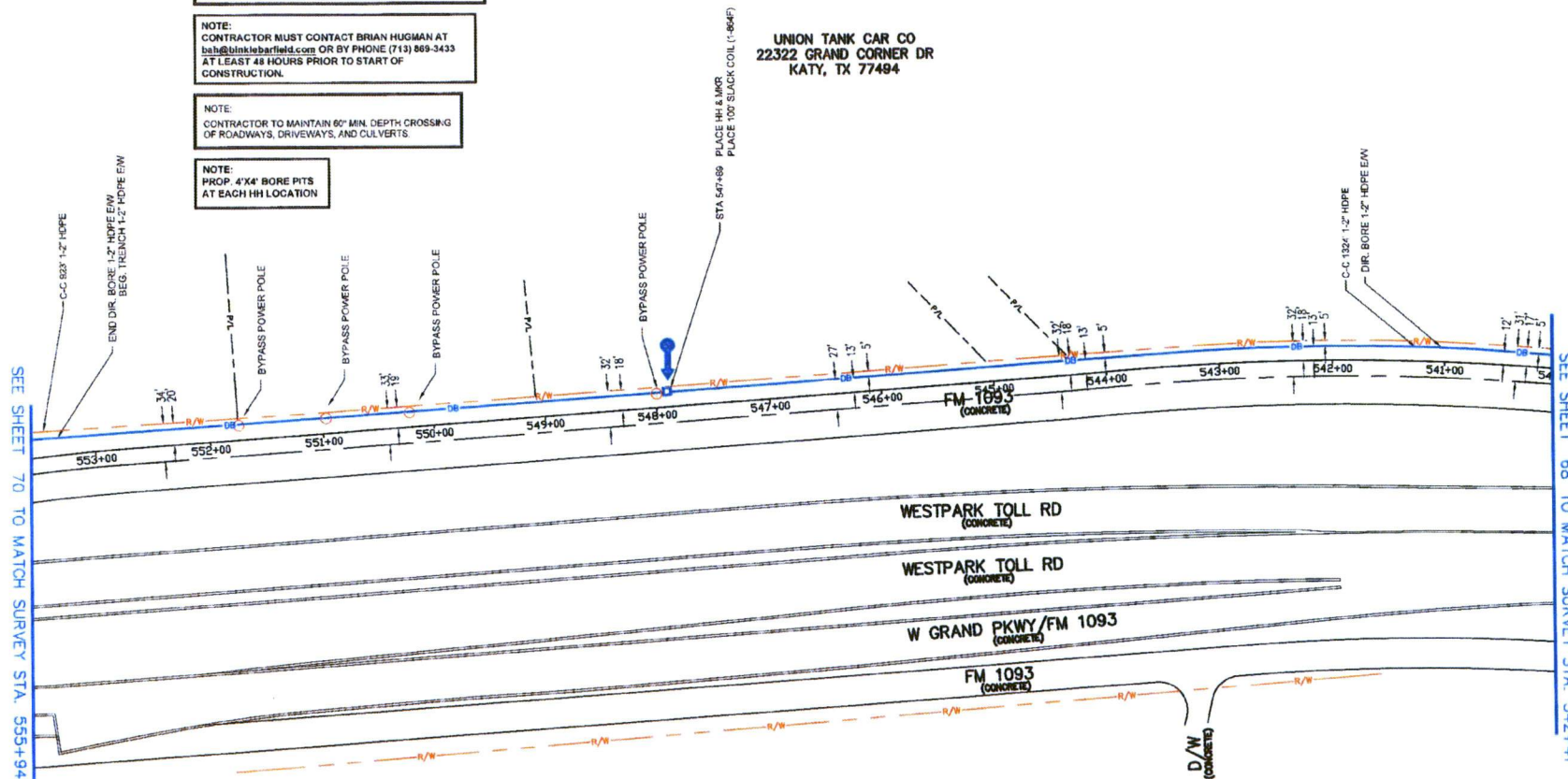
NOTE:
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b.hugman@binkleybarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

SEE PROFILE
SHEET #20

UNION TANK CAR CO
22322 GRAND CORNER DR
KATY, TX 77494



PROJECT: 170BA070.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	795'
PULL 1-864F CABLE	995'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6H STRAND	558'
LASH 1-864F CABLE	558'

NCT COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE - 77494
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL REMAIN THE PROPERTY OF NCT
COMMUNICATIONS SERVICES, INC. AND BEING
ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 70 OF 86

FILE: 170BA070.040-70AC.BEL.BNG

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



KATY, TX
FORT BEND COUNTY

SEE SHEET 71 TO MATCH SURVEY STA. 567+16



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT bah@binkiebarfield.com OR BY PHONE (713) 869-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS AT EACH HH LOCATION

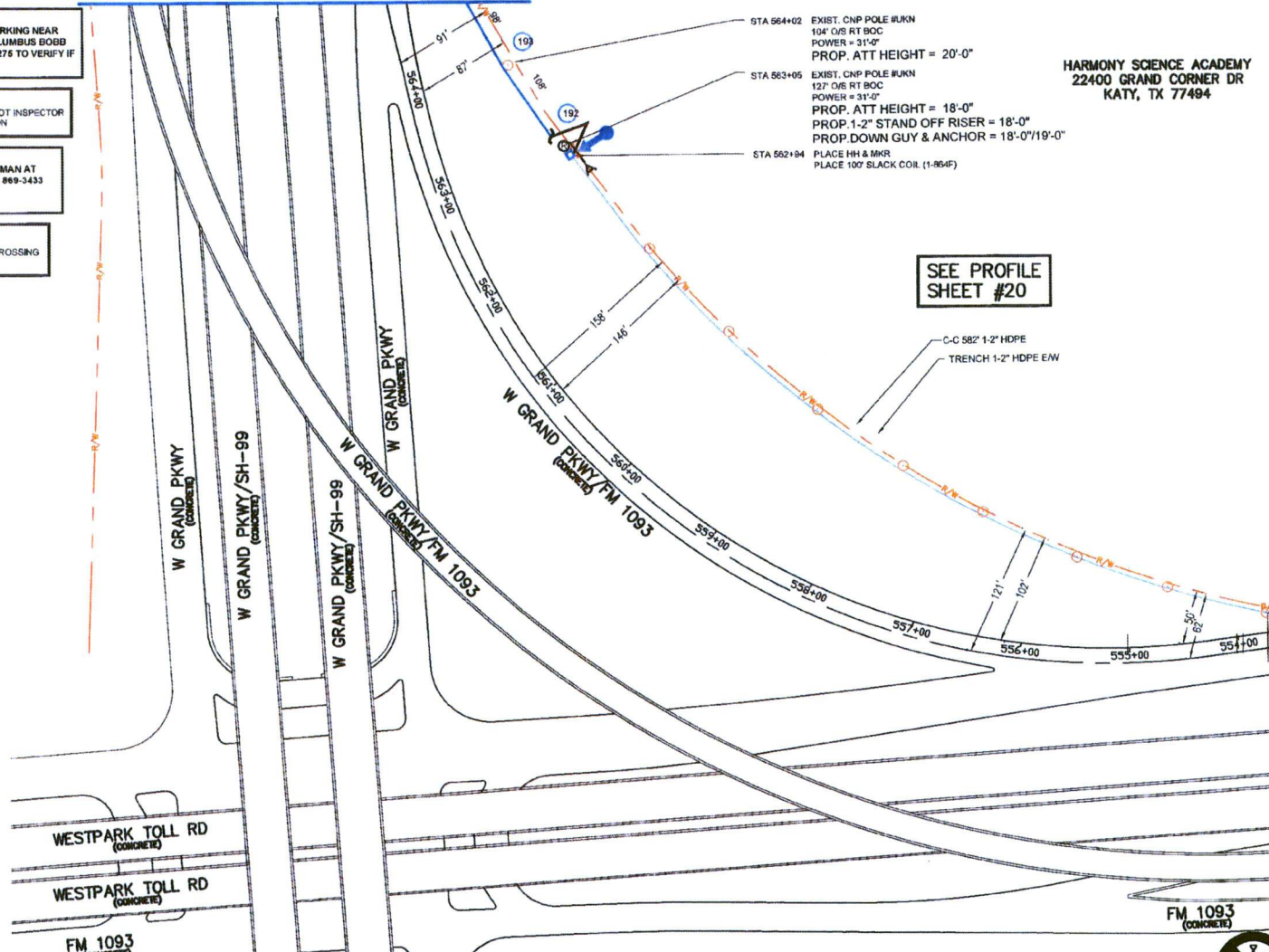
HARMONY SCIENCE ACADEMY
22400 GRAND CORNER DR
KATY, TX 77494

STA 564+02 EXIST. CNP POLE RUNK
104' O/S RT BOC
POWER = 31'-0"
PROP. ATT HEIGHT = 20'-0"
STA 563+05 EXIST. CNP POLE RUNK
127' O/S RT BOC
POWER = 31'-0"
PROP. ATT HEIGHT = 18'-0"
PROP. 1-2" STAND OFF RISER = 18'-0"
PROP. DOWN GUY & ANCHOR = 18'-0"/19'-0"
STA 562+04 PLACE HH & MKR
PLACE 100' SLACK COIL (1-864F)

SEE PROFILE
SHEET #20

C-C 582' 1-2" HDPE
TRENCH 1-2" HDPE EW

SEE SHEET 69 TO MATCH SURVEY STA. 555+94



PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINDO RANCH

CINDO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	660'
PULL 1-864F CABLE	860'
1-2" STAND OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6M STRAND	452'
LASH 1-864F CABLE	452'

NCI DERMINGHAM/IN
TRANSMISSIONS SERVICES CORP.
ACCESS
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE, TX 77495
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL BE THE PROPERTY OF TRANSMISSIONS SERVICES, INC. WITH NO REUSE ALLOWED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF TRANSMISSIONS SERVICES, INC.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 71 OF 86

FILE: 1708ADZQ. 040-71AC. BCL.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION. NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POtholing A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CTV, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRAOR TO VERIFY EXAF LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

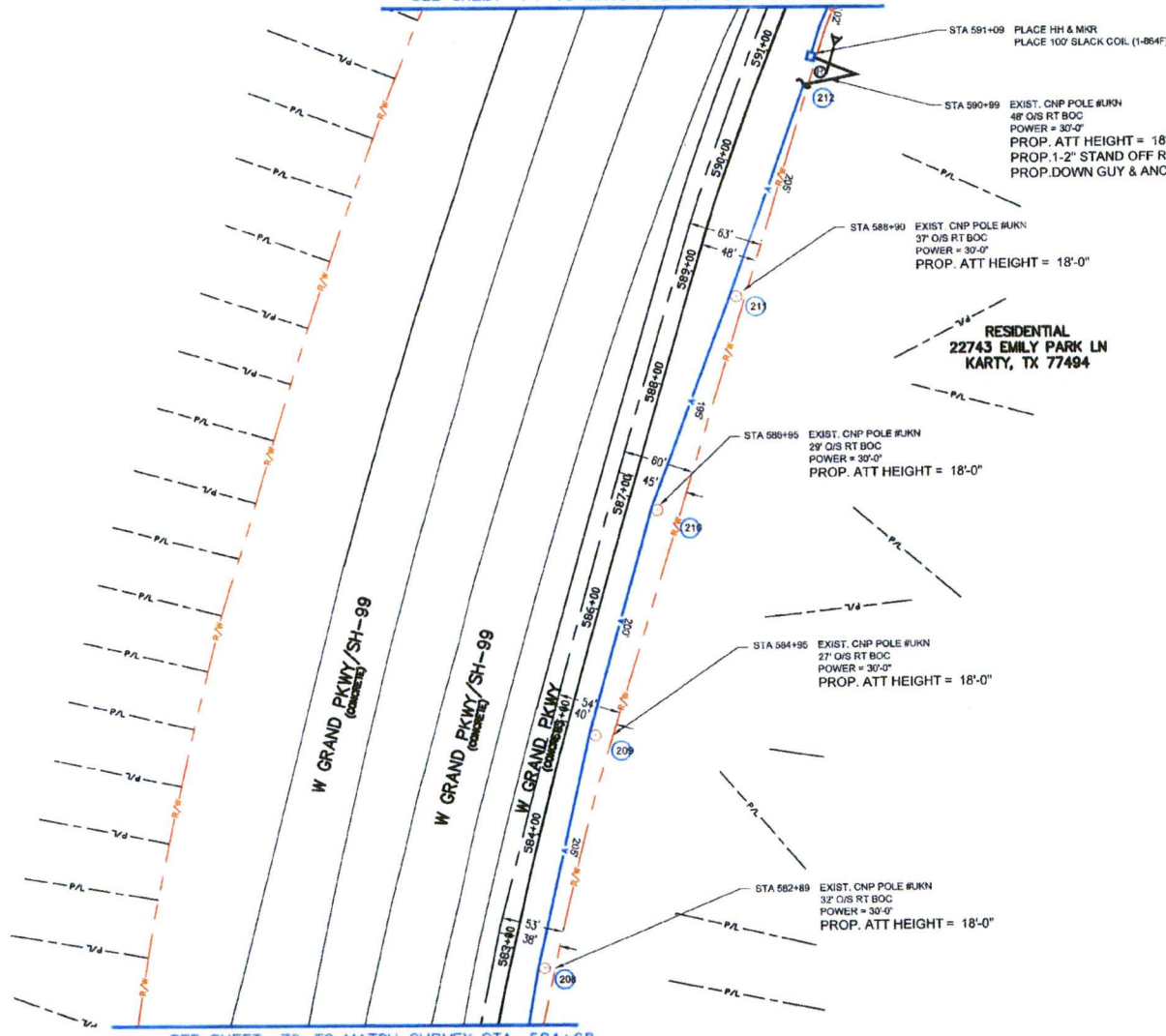


KATY, TX
FORT BEND COUNTY

SEE SHEET 74 TO MATCH SURVEY STA. 593+77



SEE PROFILE
SHEET #20



SEE SHEET 72 TO MATCH SURVEY STA. 584+68

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
b.hugman@binkleybarfield.com OR BY PHONE (713) 865-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

PROJECT: 1708A02Q.040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE 6# STRAND 909'

LASH 1-864F CABLE 909'

MCI COMMUNICATIONS
ACCESS TRAVELER SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77494
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE DESCRIPTION INITIAL

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NOTE:
UTILITY & R.O.W. REPRESENTED ON
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CAUTION IIII
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 74 OF 86

FILE: 1708A02Q.040-74AC.BEL.BWG

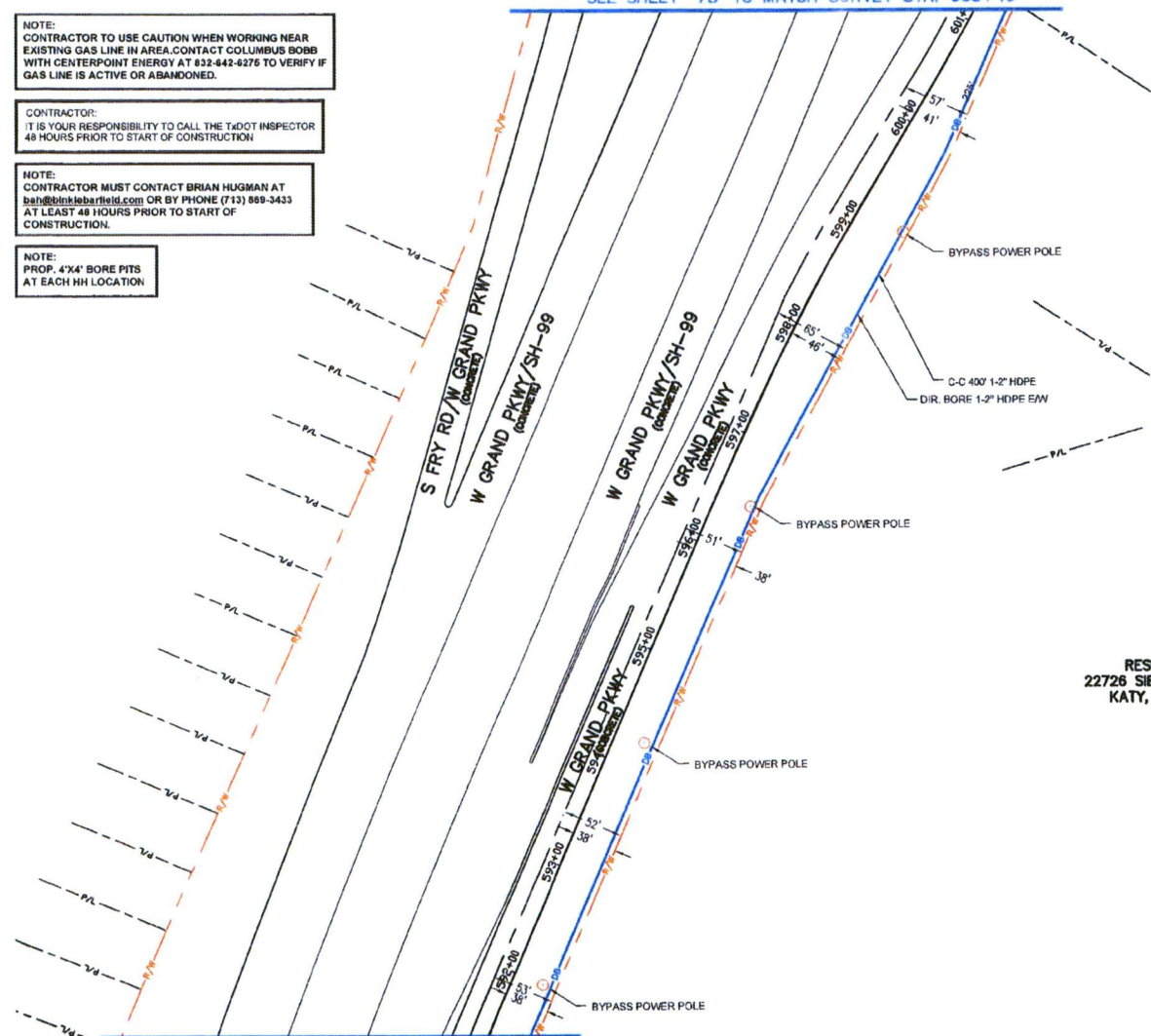
KATY, TX
FORT BEND COUNTY
SEE SHEET 75 TO MATCH SURVEY STA. 603+46

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-442-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
brianh@bentley.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION



SEE PROFILE
SHEET #20

RESIDENTIAL
22726 SIERRA LAKE CT
KATY, TX 77494

SEE SHEET 73 TO MATCH SURVEY STA. 593+77

**** NOTE ****
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CAUTION !!!
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PRIOR TO CONSTRUCTION

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SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE 6H STRAND	969'
LASH 1-864F CABLE	969'

NCI COMMUNICATION
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77494
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
SHALL BE THE PROPERTY OF NCI COMMUNICATION
TRANSMISSION SERVICES, INC. AND SHALL NOT BE
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WITHOUT WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 75 OF 86

FILE: 1708ADZQ. 040-75AC. DEL. DWG

KATY, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-8276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

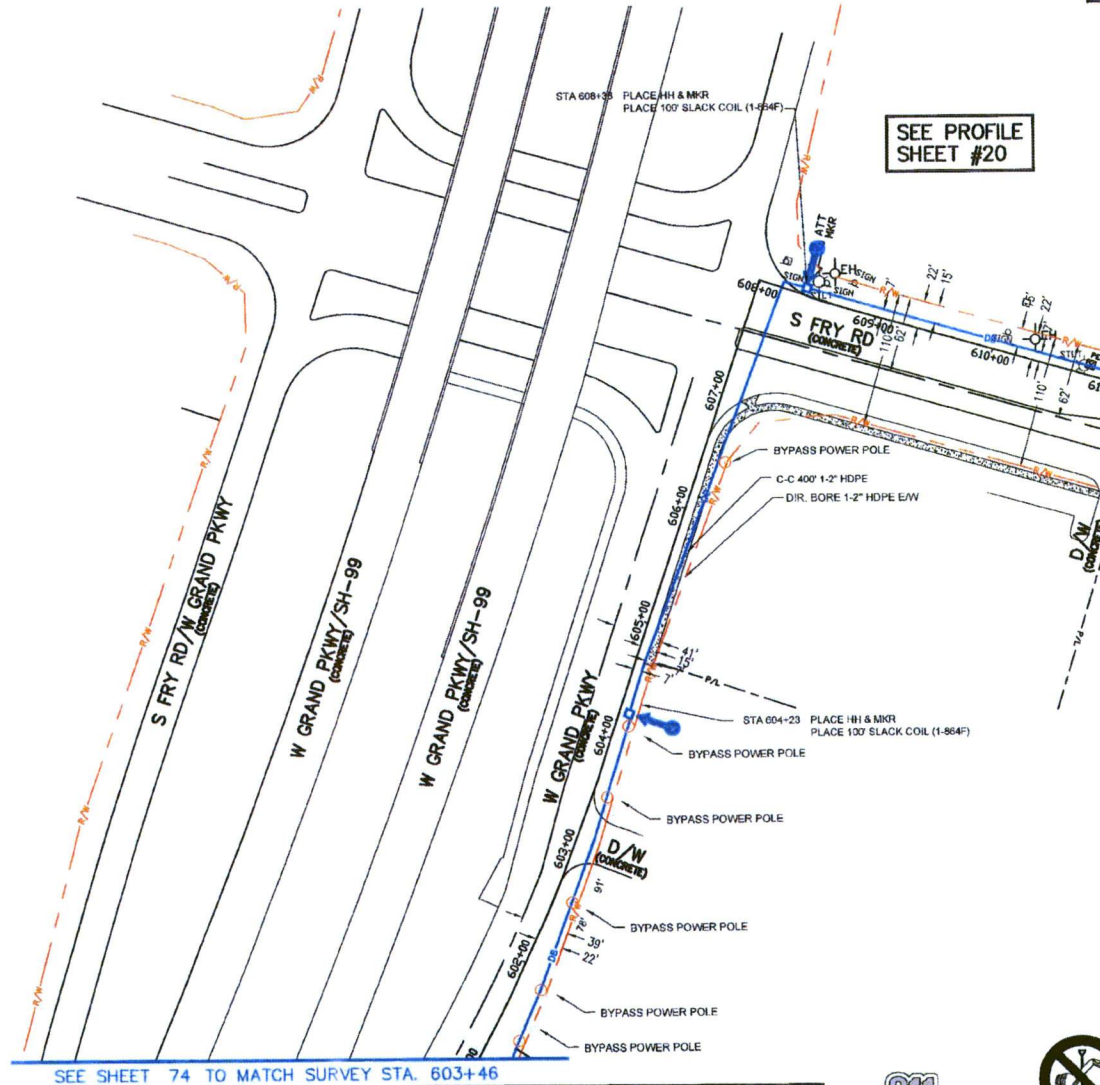
CONTRACTOR:
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48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
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bsh@binkmbarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS
AT EACH HH LOCATION

H-E-B
6711 S FRY RD
KATY, TX 77494



PROJECT: 1708AQZQ.040

PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	684'
PULL 1-B64F CABLE	884'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6" STRAND	304'
LASH 1-B64F CABLE	304'

NCT COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE, TX 77494
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL

DESIGN AS SHOWN IS BASED ON RECORDS PROVIDED BY
CONTRACTOR. THESE DRAWINGS AND SPECIFICATIONS
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SEPARATION SERVICES, INC. SOLELY BEING
ISSUED IN STRICT COMPLIANCE AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT EXPRESS WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'
VERTICAL: 1"=100'
MP TO MP
SHEET 76 OF 86
FILE: 1708AQZQ.040-76AC.BEL.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION IIII
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

KATY, TX
FORT BEND COUNTY

SEE SHEET 78 TO MATCH SURVEY STA. 642+63



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-442-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGHMAN AT
bhh@binkleybarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

GRAND LAKES POSTAL
5554 S PEEK RD
KATY, TX 77494

STA 633+78 PLACE HH & MKR
PLACE 100' SLACK COIL (1-864F)

STA 626+02 PLACE HH & MKR
PLACE 100' SLACK COIL (1-864F)

C-C 78" 1-2" HDPE
DIR. BORE 1-2" HDPE EAW

SEE PROFILE
SHEET #20

SEE SHEET 76 TO MATCH SURVEY STA. 627+28

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708ADZG. 040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	3
PLACE MARKER	3
PROP. 1-2" HDPE	1535'
PULL 1-864F CABLE	1835'

MOI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77494
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

EXCEPT AS MAY BE OTHERWISE PROVIDED BY
CONTRACT THESE DRAWINGS AND SPECIFICATIONS
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REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 78 OF 86

FILE: 1708ADZG. 040-78AC. BEL. DWG

KATY, TX
FORT BEND COUNTY
SEE SHEET 79 TO MATCH SURVEY STA. 651+86

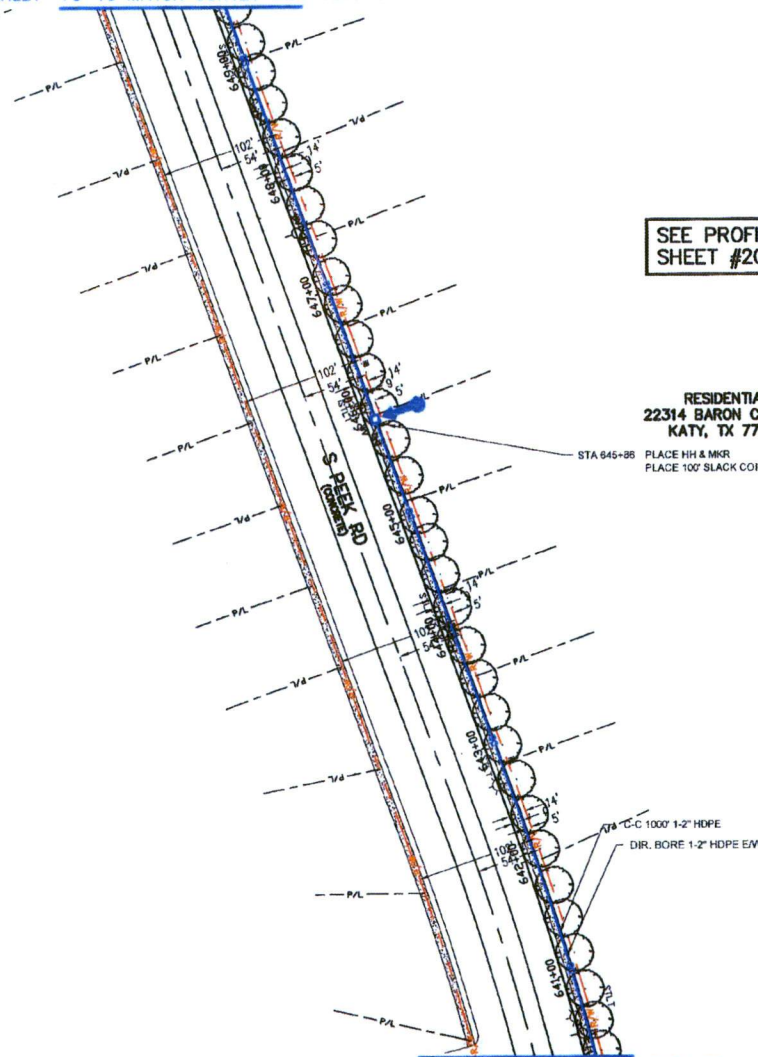
NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bah@pinklebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION



SEE PROFILE
SHEET #20

SEE SHEET 77 TO MATCH SURVEY STA. 642+63

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



PROJECT: 1708ADZQ. 040

PEDAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	923'
PULL 1-864F CABLE	1023'

MCI COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PEDAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77494
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

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SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

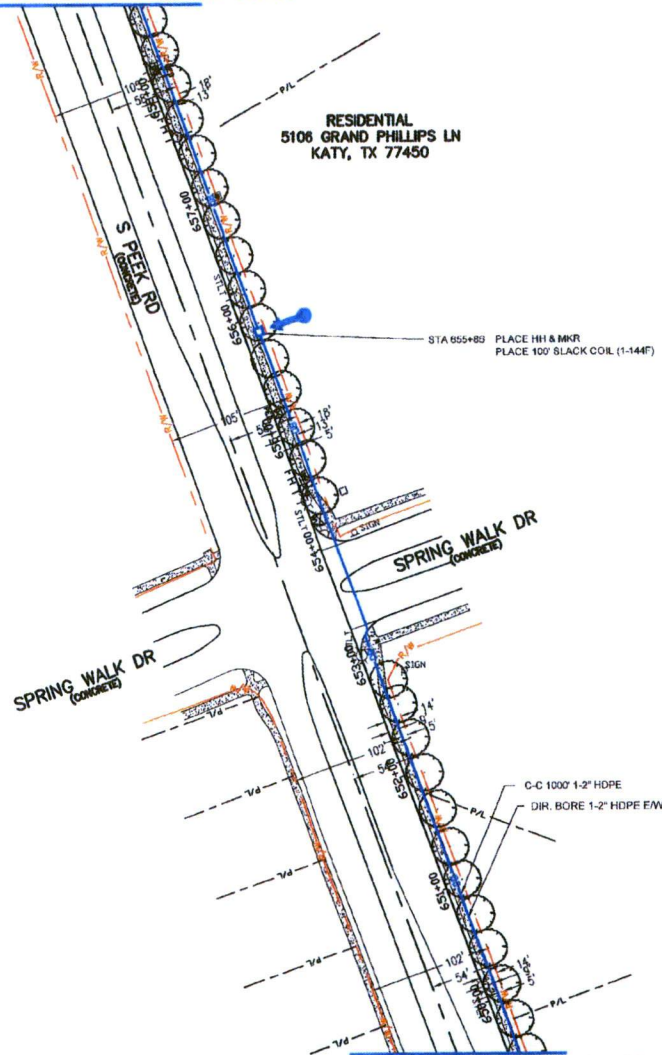
MP TO MP

SHEET 79 OF 86

FILE: 1708ADZQ. 040-79AC. BEL. DWG

KATY, TX
FORT BEND COUNTY

SEE SHEET 80 TO MATCH SURVEY STA. 661+13



SEE SHEET 78 TO MATCH SURVEY STA. 651+86

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT brianh@bribebarfield.com OR BY PHONE (713) 669-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"X4" BORE PITS AT EACH HH LOCATION

SEE PROFILE
SHEET #20



PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO. QUANTITY

PLACE HANDHOLE 1

PLACE MARKER 1

PROP. 1-2" HDPE 927'

PULL 1-864F CABLE 1027'

NCI DESIGN/CONSTRUCTION
ACCESS TRAFFIC SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77465
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 80 OF 96

FILE: 1708ADZQ. 040-BAC. BEL. DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION, NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING. A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY.

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

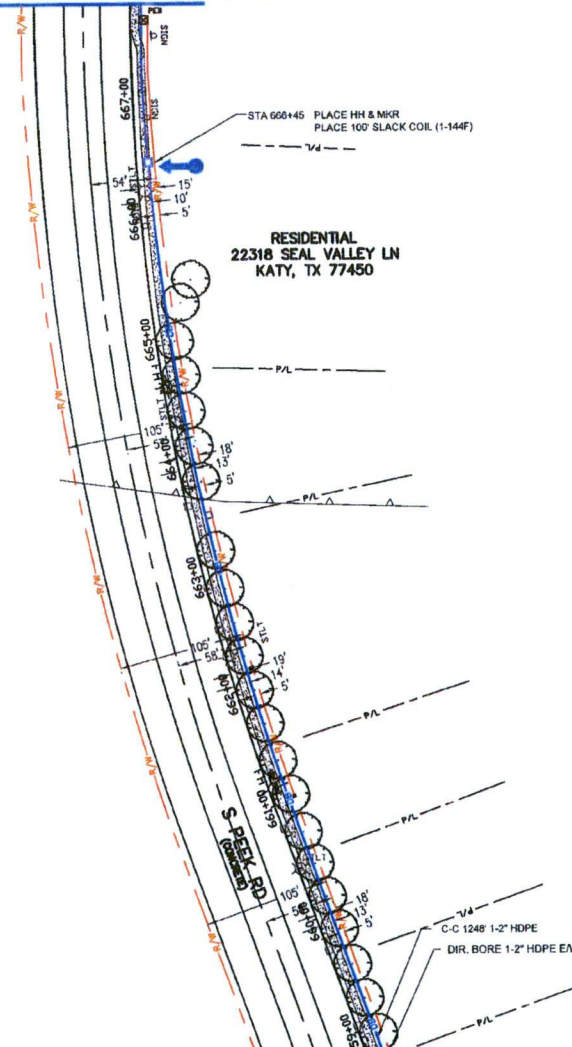


Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4345
48 HOURS NOTICE REQUIRED

KATY, TX
FORT BEND COUNTY
SEE SHEET 81 TO MATCH SURVEY STA. 670+97



SEE SHEET 79 TO MATCH SURVEY STA. 661+13

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-442-8275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT bah@thinkbarfield.com OR BY PHONE (713) 869-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"x4" BORE PITS AT EACH HH LOCATION

SEE PROFILE SHEET #20



PROJECT: 1708A02Q.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HAND-PILE	2
PLACE MARKER	2
PROP. 1-2" HDPE	874'
PULL 1-864F CABLE	1074'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6H STRAND	110'
LASH 1-864F CABLE	110'

MCT COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77450
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

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SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 81 OF 96

FILE: 1708A02Q.040-81AC.8EL.DWG

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION. NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELETRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

RESIDENTIAL
4607 CANDLEWOOD PARK LN
KATY, TX 77494

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

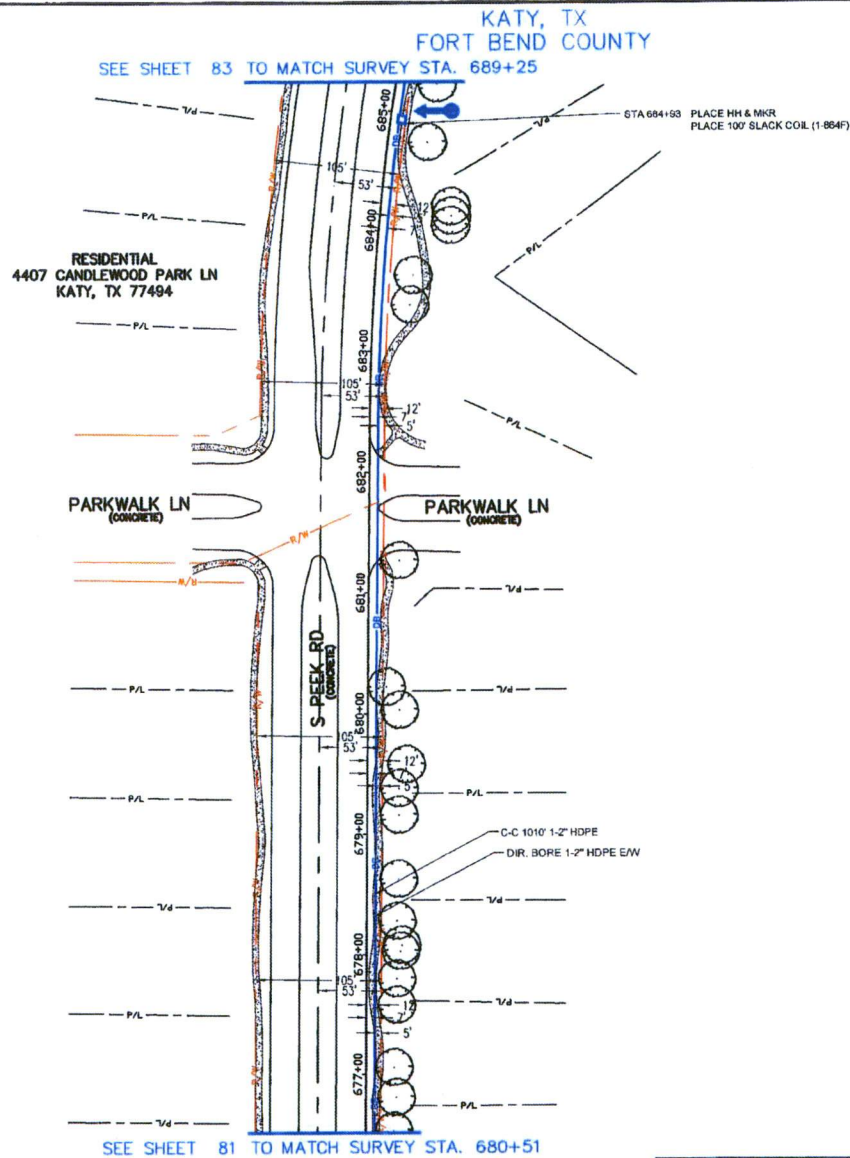


NORTH



FILE: 1708ADZQ.040-82AC. BEL. JMG

CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE T-800 INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
buh@binklebarfield.com OR BY PHONE (713) 869-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION

SEE PROFILE
SHEET #20



PROJECT: 1708A02Q.040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	874'
PULL 1-864F CABLE	874'

MCI COMMUNICATIONS
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77494
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 83 OF 86

FILE: 1708A02Q.040-83AC.MXD

NOTE:
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION III
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 10" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION III
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

KATY, TX
FORT BEND COUNTY

SEE SHEET 84 TO MATCH SURVEY STA. 698+81



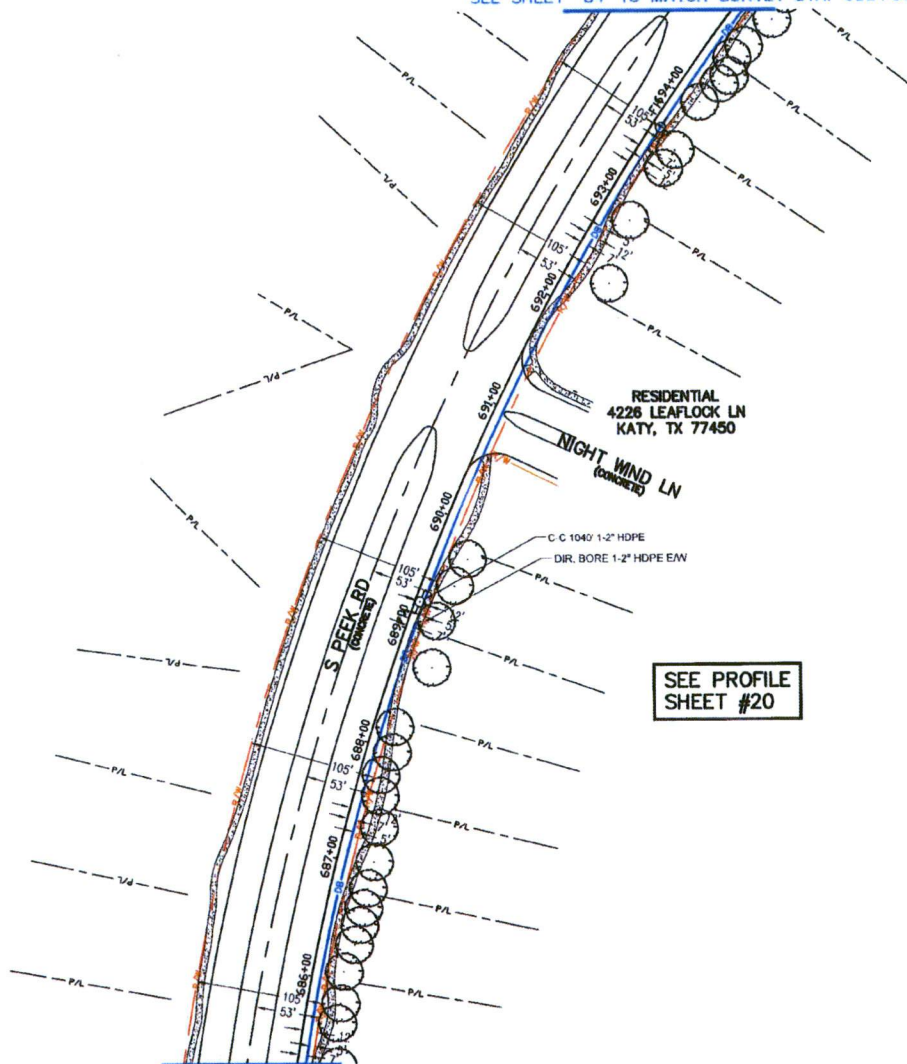
NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
bhug@binkleybarfield.com OR BY PHONE (713) 899-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4'X4' BORE PITS
AT EACH HH LOCATION



SEE PROFILE
SHEET #20

SEE SHEET 82 TO MATCH SURVEY STA. 689+25

**** NOTE ****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1708ADZ0.040

PEDAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PROP. 1-2" HDPE	956'
PULL 1-864F CABLE	956'

MCI COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PEDAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77446
OUTSIDE PLANT - PLAN

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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SCALE
HORIZONTAL: 1"=100'
VERTICAL: 1"=100'
MP TO MP

SHEET 84 OF 86

FILE: 1708ADZ0.040-84AC.BEL.DWG

KATY, TX
FORT BEND COUNTY



JAMES WILLIAMS ELEMENTARY SCHOOL
3900 PEEK RD
KATY, TX 77450

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-6276 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

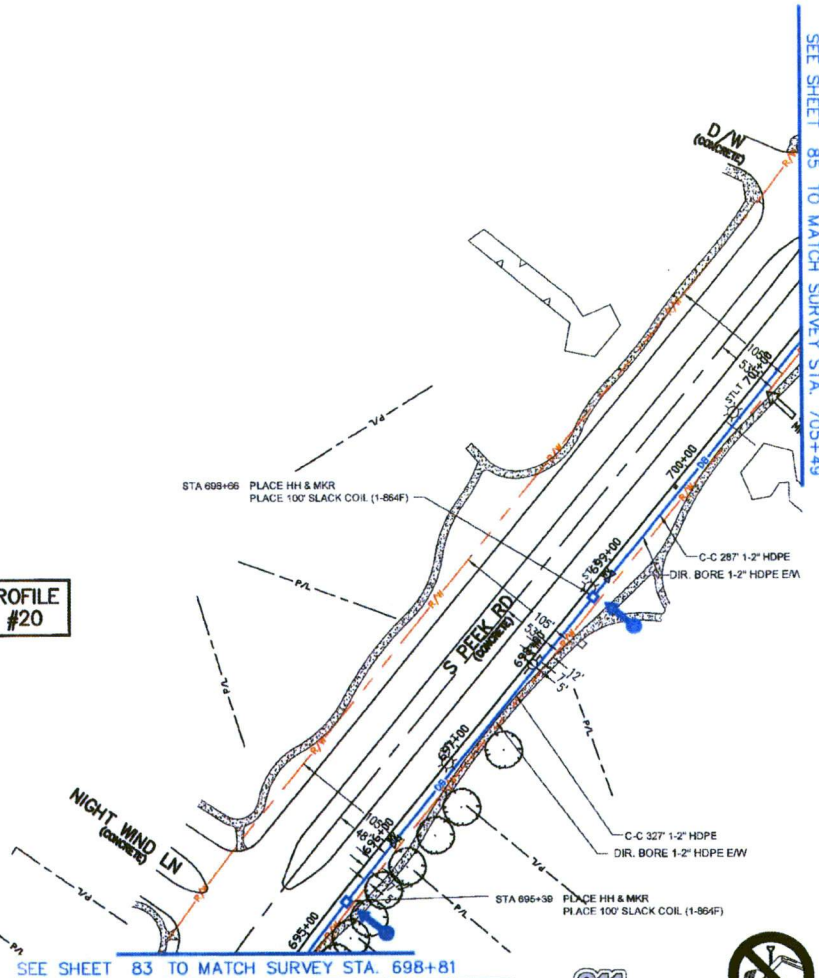
CONTRACTOR:
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48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
b.hugman@binkfield.com OR BY PHONE (713) 969-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 50" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 4"X4" BORE PTS.
AT EACH HH LOCATION

SEE PROFILE
SHEET #20



SEE SHEET 83 TO MATCH SURVEY STA. 698+81

CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1708ADZQ. 040

PECAN GROVE TO CINCO RANCH

CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HDPE	396'
PULL 1-864F CABLE	596'
1-2" STAND OFF RISER	1
BOWN GUY & ANCHOR	1
PLACE 6M STRAND	272'
LASH 1-864F CABLE	272'

MCI COMMUNICATIONS SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77450
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

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WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 85 OF 86

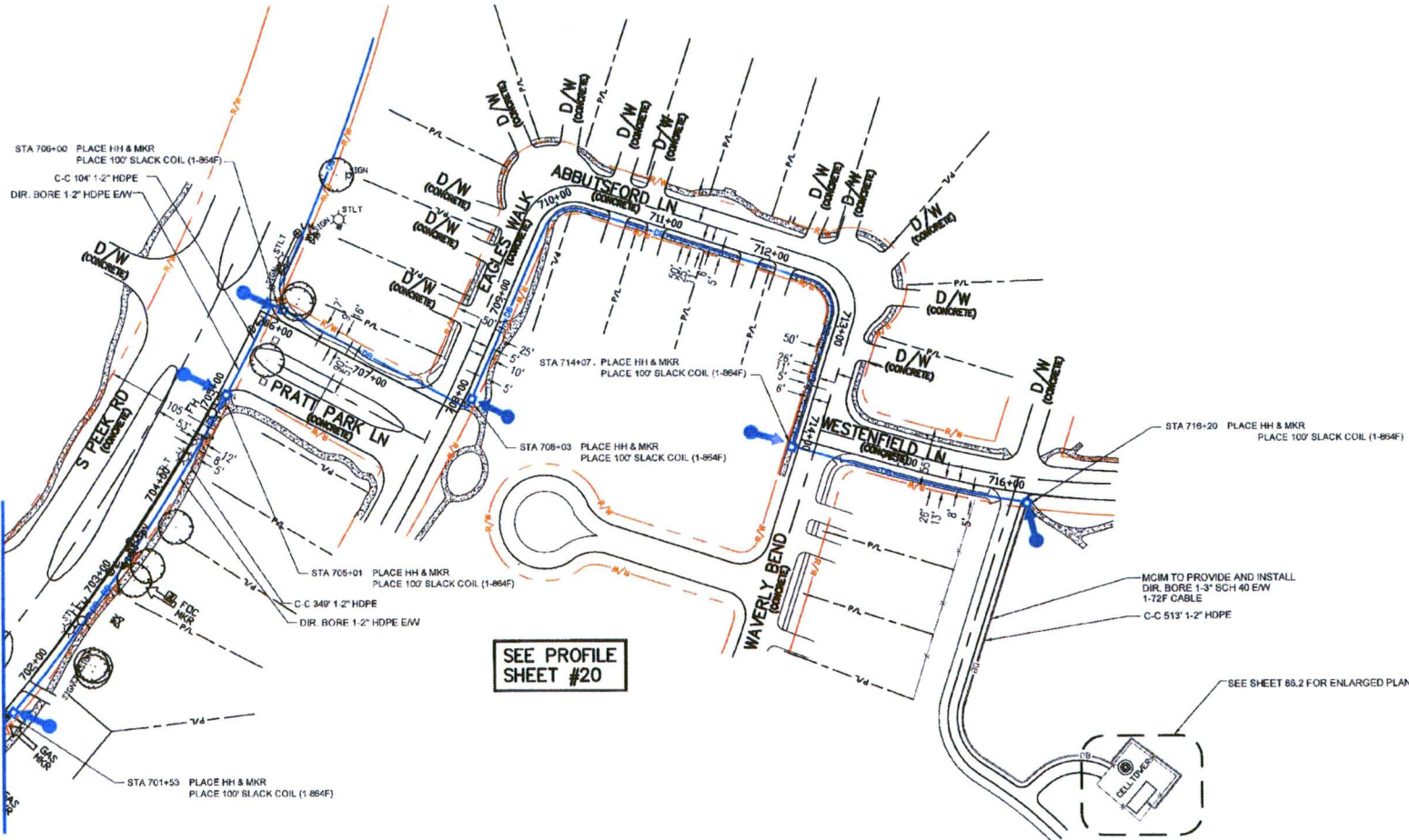
FILE: 1708ADZQ. 040-85AC.BOL.DWG

NOTE:
UTILITY & R.O.W. REPRESENTED ON
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BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION!!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

NOTE:
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

KATY, TX
FORT BEND COUNTY



SEE PROFILE
SHEET #20

SITE NAME: CINCO RANCH
SITE NUMBER: 167789-D
22615 WESTHEIMER PDWY
KATY, TX. 77498

SEE SHEET 88.2 FOR ENLARGED PLAN

SEE SHEET 84 TO MATCH SURVEY STA. 705+49

**** NOTE ****
UTILITY & R.O.N. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

CAUTION !!!
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1708ACZG. 040

PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	6
PLACE MARKER	6
PROP. 1-2" HDPE	1437'
PULL 1-864F CABLE	2073'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHER	1
PLACE 6M STRAND	4'
LASH 1-864F CABLE	4'

MCI TRANSMISSION SERVICES CORP.
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY
ENGINEER, THESE SPECIFICATIONS AND REQUIREMENTS
SHALL REMAIN THE PROPERTY OF MCI
TRANSMISSION SERVICES CORP. NO PARTS BEING
ISSUED IN EXISTING CONTRACTS AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 86 OF 86

FILE: 1708ACZG. 040-86AC. REL. JWG