



REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT

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

X

Right of Way Permit

11

Commercial Driveway Permit

Permit No: 2018-18982

Applicant: Verizon

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

Bond No. [REDACTED] **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](https://mygovernmentonline.org) portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 24th day of April, 2018, Upon Motion of Commissioner _____, seconded by Commissioner _____, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By: Rick J. Staigle, PE, PTOE
County Engineer

Date Recorded _____ Comm. Court No. _____

N/A

Clerk of Commissioners Court

By: _____
Drainage District Engineer/Manager

By: _____
Deputy



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

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

- ☒ **Right of Way Permit**
☐ **Commercial Driveway Permit**

Permit No: 2018-18982

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

SITE CODE: HODATX
02/22/2018

PROJECT STATUS: CONSTRUCTION

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 817-376-3661 FOR LINE LOCATES IF BURIED PORTION OF THIS WORK
IS NEAR TxDOT TRAFFIC SIGNALS

RICHMOND, TX
FORT BEND COUNTY



PROPOSED
BURIED CABLE

PROPOSED
AERIAL CABLE

[illegible]

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
PROJECT MANAGER: JEFF BUEHLER
ENGINEER MARCUS ARMJOD
(214) 213-4470
(214) 595-2518

RIGHT-OF-WAY:

AGENT:
MANAGER:

CONTRACTS:

COORDINATOR:
MANAGER:

OTHERS:

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

ENGINEERING CONTRACTOR

NAME OF FIRM: EXT, LTD
1130 EAST ARAPAHO ROAD, SUITE 265
RICHARDSON, TX 75081
(469)-385-5153

PRESIDENT/CEO: MICHELLE LEMKE
DIRECTOR OF ENGINEERING: JEN BALLEW
EXP. ENGINEER: JEN JOHNSON
(940) 914-2826
(940)-914-2824
(940)-981-6181

CONSTRUCTION CONTRACTOR

NAME OF FIRM:
PROJECT COORDINATOR:
PROJECT SUPERINTENDENT:

RAILROADS

ANDERSON PACIFIC RAILROAD
1400 DALLAS ST. STOP 1690
DALLAS, TX 75201
DANIEL PETERS
OFFICE: 402-554-8620
E-MAIL: dpeters@andp.com

BNSE RAILROAD
3313 CRITES ST.
FORT WORTH, TX 76119
WILLIAM NESS
CELL: (817) 832-6019
E-MAIL: wness@bnr.com

CLIENT

N/A

UTILITIES

MCI UTILITY LOCATE
TEXAS ONE CALL SYSTEM UTILITY LOCATES
CALL BEFORE YOU DIG III (IN HOUSTON)
NEW STATEWIDE NUMBER OUTSIDE HOUSTON

MEMBERS:
SIC
UNDERGROUND GAS FACILITIES
CENTERPOINT ENERGY PIPELINE
CENTERPOINT ENERGY ELECTRIC

1-800-624-3675
1-800-245-4545
713-223-4567
1-800-545-6005
713 223-4567 / 1-800-669-8244
713 957-8037
713 207-7777 / 713 223-4567

CITY GOVERNMENT

CITY OF ROSENBERG
CHARLES KALMEY
CITY ENGINEER
2228 4TH STREET
ROSENBERG, TX 77471
OFFICE: 832-595-3566
E-MAIL:

COUNTY GOVERNMENT

N/A

STATE GOVERNMENT

TEXAS DEPARTMENT OF TRANSPORTATION
TRICIA COLLETTE
7600 WASHINGTON AVE
HOUSTON, TX 77001
PERMIT COORDINATOR
OFFICE: (713) 802-5568
E-MAIL: TRICIA.COLLETTE@TxDOT.GOV

FEDERAL GOVERNMENT

N/A

OTHER

N/A

ACCESS TRANSMISSION SERVICES CORP.
MCI
TITLE: FIBER OPTIC CABLE ROUTE
FROM GROUND TO UNDERGROUND
OUTSIDE PLANT - PLAN

DATE: 01/02/2009
ENGINEER: GKT/JJ
DRAWN BY: GKT

REVISIONS

DATE DESCRIPTION INITIAL

SCALE
HORIZONTAL: NTS
VERTICAL: NTS
MP TO MP
SHEET 03 OF 03
FILE: 1706A022.DWG

CONSTRUCTION NOTES

CONSTRUCTION NOTES

1. ALL CONDUIT WILL BE 4" ID SCHEDULE 40 40- PIV PVC OR ESP/SSP, MANUFACTURED CRAT PIV/CB SPILT ESP/SSP), 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 1" MANUFACTURED SPILT PVC, ESP/SSP EVERY 6' UNDER EACH OBSTRUCTION.
4. SHORING MAY BE REQUIRED AND SHALL COMPLY TO OSHA STANDARDS.
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 3/8" MINIMUM COVER IS UNFURNISHABLE UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
7. ALL 90 DEGREE BENDS IN CONDUIT CONSTRUCTION WILL BE A MINIMUM 384" RADIUS UNLESS SPECIFIED OTHERWISE. ALL SPLIT CONDUIT BENDS AND SOLID PVC BENDS SHALL REQUIRE CONCRETE ENCASMENT, 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 STATINGING 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 48 HOURS NOTICE PRIOR TO CONSTRUCTION.
11. ALL BURIED CABLE MARKERS, 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

1. 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 I 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 PRESENCE 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, VERIZON BUSINESS.
4. RECORDING OF SOME ELECTRICAL FEATURES OF THE PREVIOUSLY EXISTING CABLES AND/OR DUCTS SHALL BE OBTAINED FROM THE UTILITY BUREAU OF THE CITY OF NEW YORK.
5. FROM EXISTING RECORDS, VALUATION MAPS OR OTHER DRAWINGS, AND MAY BE AS SHOWN OR DEPICTED IN THESE DRAWINGS, 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, SHURDS, TREES, GRASS, SOIL, ETC., IF DAMAGED, SHALL BE REPAIRED TO ORIGINAL OR BETTER CONDITION.
8. EQUIPMENT SPECIFIED OR SUGGESTED BY CONTRACTOR ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE RESPONSIBLE, AS TO EXCEPTIONS.

ADDENDUM NOTES

CLARIFICATION NOTES (CONTINUED)

- JACK AND DRY BURE CONDUITS(2)

PLACE CONDUIT
PLACE HIGH DENSITY POLYETHYLENE (HDPE)
ROCK ADJER
SLURRY BACKFILL ADJER
EXPUSE CONDUIT
EXPURE CONDUIT AND RELICATE
EXPUSE CONDUIT AND REPLACE/SUBSTITUTE
EXPURE AND REMOVE CONDUIT
EXPURE AND REMOVE CONDUIT (ABANDONED)
CONCRETE ENCASE
REMOVE CONCRETE ENCASEMENT
REMOVE CONCRETE CAP
PLACE HANDHOLE
RELICATE HANDHOLE
REPLACE/SUBSTITUTE HANDHOLE
REPLACE EXISTING HANDHOLE
REPLACE EXISTING HANDHOLE
REPLACE EXISTING HANDHOLE
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
ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE

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

DIRECT BURY CABLE
EXPURE DIRECT BURIED CABLE
EXPURE DIRECT BURIED CABLE AND RELICATE
REMOVE AND DISPOSE OF CABLE
PLACE AERIAL CABLE
RELICATE AERIAL CABLE
REPLASH AERIAL CABLE
RELINSH AERIAL CABLE
REMOVE AERIAL CABLE
PLACE PILE/PUSH BRACE
REMOVE PILE/PUSH BRACE

JETTING CONDUIT
ENDEMENT FLOW
DIRECTIONAL BORE

PLACE BURIED CABLE MARKERS AND SIGNS/WYCON
WATER CROSSINGS
PLACE ISOLATION/PROTECTION SYSTEM AT EXISTING
HANDHOLE/EXCHANGES
REMOVE BURIED CABLE MARKER POST/HARDWARE
REMOVE CONCRETE BURIED CABLE MARKER POST

[illegible]

PERMIT REQUIREMENTS (February 2017) FORT BEND GRAND PARKWAY TOLL ROAD AUTHORITY AND FORT BEND COUNTY TOLL ROAD AUTHORITY (collectively known as FBTRA) A preconstruction meeting with Authority's staff will be required before commencing work. Contact Phil Martin with FBTRA at (713) 574-5261 office, (632) 907-5726 cell, or philmartin@mkshinesassociates.com, to schedule the meeting.	- All work within the right-of-way shall be performed in accordance with TxDOT standards and specifications as to the installation and materials used. All materials and mix designs to be placed in TxDOT right-of-way must be obtained from TxDOT approved sources and be of approved TxDOT or FBTRA mix designs. - At least five (5) working days prior to any excavation, permittee shall request the location of all underground utilities within the work area by calling 811, and contacting local municipalities, utility districts, school districts, or any other utility owners. Do not perform underground work on the project until FBTRA owned facilities have been located and marked. Use caution when working in these areas to avoid damaging or interfering with existing facilities. Permittee shall be responsible for locating and/or adjusting any utilities within the work area. - Any work within in the toll road right of way requires a traffic control plan (TCP), even if lanes are not affected. Utility borings that don't require equipment or personnel within the right of way do not require TCP. - This permit is subject to a separate traffic control plan being approved by the Authority's Engineer. All work must follow the <i>TxDOT Uniform Traffic Control Plan Standards, Latest Revision</i>, or if approved, "Typical Applications shown in the Texas Manual on Uniform Traffic Control Devices, Latest Revision, Chapter 6-H." The advanced warning signage shown on standards BC 1-14 thru BC 12-14 will be required. It is mutually agreed and understood that the implementation and maintenance of the traffic control plan shall be the responsibility of the Permittee. Contractor is required to supply all sub-contractors with a copy of this permit and approved traffic control plan. The person in charge for permittee/contractor on the job site shall have a copy of the permit and approved Traffic Control Plan (TCP) at all times. - 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 closures on holidays or holiday weekends. - Designate in writing, a Contractor's Responsible Person (CRP) and an alternate to be the representative of the Contractor who is responsible for taking or directing corrective measures regarding the traffic control. The CRP or alternate must be accessible by phone 24 hr per day and able to respond when notified. The CRP and alternate must comply with the requirements of TxDOT Specification, Section 7.2.6.5., "Training." - Flaggers must be courteous and able to effectively communicate with the public. When directing traffic, flaggers must dress appropriately, wear high-visibility safety apparel, use flags, signs, stop-slow paddles, and other hand-signaling devices, and follow the flagging procedures in the TMDOT. Comply with the requirements of TxDOT Specification Section 7.2.6.5., "Training."	- 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 expiration,	For Contractor developed Training, maintain a log of attendees. Make the log available upon request. Ensure the log is legible and includes the following: - print name and signature of participant, - name and title of trainer, and - date of training.	- The Permittee shall coordinate the sequence of construction and traffic control plan with any adjacent construction or maintenance projects. No overnight lane closures will be permitted, unless otherwise approved by the Authority Engineer. - Work performed within the waterways, such as rivers, creeks, bays, and drainage ditches, is subject to the concurrence of appropriate regulatory agencies. - The Permittee certifies that its drainage system meets all storm water quality criteria of the County and/or City where the permit is located. - All excavations within the right-of-way shall be backfilled according to the <i>TxDOT Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges (SPESCB)</i> Item 400, as currently amended. All surplus material shall be removed from the right-of-way, and the excavation finished flush with surrounding natural ground. - In no event will an edge drop-off be permitted during the hours of darkness. If the Contractor is unable to complete a section before the end of the work day, base material capable of vehicle support shall be pulled back to the existing edge on a 4:1 or flatter slope, to provide for driver and pedestrian safety. - The Contractor shall not create a dirt nuisance or safety hazard in any roadway. The pavement shall be cleaned daily. - All exposed dirt surfaces shall be fully bank sodded, unless otherwise approved by the Authority Engineer. A slope of 4:1, or flatter, shall be required on the ditch front slope. Sodgrass shall be watered until roots have established into soil. No valves, meter boxes, cleanouts, ground boxes, handholes, manhole covers, etc., will be allowed in the pavement. These appurtenances shall be relocated elsewhere within the right-of-way, unless otherwise approved by the Authority Engineer. - The Texas Universal Triangular Slip Base Sign Supports shall be required for all signage within the right-of-way. Proposed signs, or those which require relocation, shall be done in accordance with the following TxDOT standards: <i>Proposed Signs, SMD 152-10-10, SMD 152-11-10, SMD 152-12-10, and SMD 152-13-10.</i>
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PM (4)-12: All raised pavement markers shall meet the requirements of TxDOT Specification, Item 672.

- Existing pavement markings shall be removed according to the requirements of TxDOT Specification, Item 677, or to the satisfaction of the Authority's Engineer. All pavement surfaces shall be cleaned and prepared in accordance with TxDOT Specification, Item 678.
- The Contractor shall employ at his/her expense, an approved commercial testing laboratory to perform testing on materials (such as concrete, base, lime, and asphalt). Sample and test concrete in accordance with TxDOT Specifications. Certified reports of all test results shall be submitted to the Authority's Engineer. Make at least one set of test specimens for each element cast each day. Cure these specimens under the same conditions as the portion of the structure involved for all stages of construction. Ensure safe handling, curing and storage of all test specimens.
- Should the existing roadway pavement or other feature be damaged, the permittee shall make repairs as specified by the Authority's Engineer.
- Indepressions in concrete pavement must be removed to prevent ponding in the pavement.
 - All storm sewer and culvert pipes used shall be Reinforced Concrete Pipe (RCP).
 - Culvert crossings within the 30-foot clear zone (parallel culverts) shall be required to have minimum 6:1 sloping ends known as Safety End Treatments (SETs). The culvert shall have sufficient length to allow the 6:1 slope to be achieved from the top edge of pavement to the flowline at the bottom end of the SET. Culverts that exceed 50' in length shall have a junction box for clean out as specified by the Authority's Engineer.
 - Culverts larger than single 33-inch diameter, double 30-inch diameter, or three or more 12-inch diameter shall require safety pipe runners.
 - Riprap or stabilizing material shall be provided and installed by grantee at time of construction as directed by Area Engineer.
- Full-depth saw cut shall be made to facilitate removal of the concrete within the limits of the required full-depth cuts. Concrete adjacent to the patch shall not be spalled or fractured by the removal procedure.
- Work areas that have been disturbed must be returned to the original condition and may be required to place grass seed and continual watering until roots are established.
- Placement or removal of beautification on right of way shall be under the direction of the Authority, at the permittees expense. This includes but not limited to landscape, bushes, trees, etc.
- The Grantee certifies that its storm water runoff to the right of way (Authority's County/State) shall not be contaminated by any industrial processes or significant pollutants, and the Authority/County/State shall not be held liable for any pollutants entering the right of way through storm water connections.
- Grantee shall meet all Americans with Disabilities Act (ADA) and Texas Department of Licensing Regulation (TDLR) requirements for items including but not limited to sidewalks and wheelchair ramps.
- Grantee shall obtain overall environmental clearance with all appropriate regulatory agencies prior to beginning construction. Approval of this request by the Authority/County does not relieve the Grantee or its agents of this obligation.
- Work performed on railroad right-of-way or easements controlled by others is subject to the concurrence of the owner of said properties. Approval of this request by the Authority/County does not relieve the Grantee of this obligation.
- The complete permit package including TCP shall be on the project site at all times and available for review by Authority/County representatives.
- Upon completion of work, submit CADD/Microstation files and pdf of Record Drawings to Phil Martin with the Authority.
- The Permittee shall indemnify and save harmless the Authority, County and State from any and all damages or losses that may develop due to this project.
- All TxDOT standards are available online for free download:
Statewebpdx/www.dot.state.tx.us/businessstandards.htm
www.dot.state.tx.us/technology/specs.htm

ADDITIONAL REQUIREMENTS FOR UTILITIES

- Markers must be placed at the right of way line for all underground utilities. Markers must indicate owners name and contact information.)
- All work must meet TxDOT / State of Texas utility accommodation requirements
- Utility owner must provide owner's responsible person's name and contact information (not contractor's contact information). Owner's responsible person must be available 24 hours/day – 7 days/week for emergency contact
- Access to SH 99 (Grand Parkway) or Fort Bend Parkway must be coordinated with Phil Martin prior to work.
- Bore pile within the right of way must be protected during non-work hours.
- Contact Phil Martin with FB TRA at (713) 574-5261 office, (832) 907-5726 cell), or philmartin@philkeesassociates.com, at least 48 hours prior to starting work within toll road right of way.
- Markers must be placed at the right of way line for all underground utilities. Markers must indicate owners name and contact information.
- All work must meet TxDOT / State of Texas utility accommodation requirements
- Utility owner must provide owner's responsible person's name and contact information (not contractor's contact information) for any questions during construction. Owner's responsible person must be available 24 hours/day – 7 days/week for emergency contact.
- Access to SH 99/Grand Parkway must be coordinated with Phil Martin prior to work.

Page 5 of 5

Borings must be cased from right of way line to right of way line, unless other approval is received from the Authority

The Authority will assist as follows:

- Provide inspection of construction.
- This permit issued subject to a traffic control plan, which will be prepared, signed/sealed by permittees agent, will approved by the Authority's Engineer. No work within the right of way shall begin until this approval has been granted.

[illegible]

FOCUS PROGRAM

MCI MCI Outside Plant FOCUS Fiber Optic Cable Uncovering System

- 1) The title of this program, FOCUS, an acronym for Fiber Optic Cable Uncovering System was selected to remind everyone involved with working near MCI'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 (all day) 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 Pot-hole 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-built.
 - If the proposed work involves digging or excavating within 3 feet of the cable, the cable route will be marked continuously with orange paint and supplemented by marker flags placed every 10 ft. The excavation contractor must pot-hole (all pot-holes 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 continuously with orange paint and supplemented by marker flags placed every 10 ft. The excavation contractor must pot-hole 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 continuously with orange paint and supplemented by marker flags placed every 10 ft. The excavation contractor must pot-hole the cable a minimum of every 30 ft.
 - The cable will also be pot-holed 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-built.
- 6) Exposing Requirements.
 - No mechanical excavation within 3 ft. of OSP facilities will be allowed unless the facilities have first been properly located, pot-holed, 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 toe boots and fluorescent 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

ACCESS TRANSMISSION SERVICES CORP.
MCI
TITLE: FIBER OPTIC CABLE ROUTE
DATE: 01/02/2008
ENGINEER: GUY/JJ
DRAWN BY: GUY
REVISIONS
DATE DESCRIPTION INITIALS
1 01/02/2008
2 01/02/2008
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BURIED CABLE	EXISTING	PROPOSED	STEEL MARKER AND SIGN-(A)
AERIAL CABLE	A	A	ALUMINUM "HUB"-STYLE MARKER-(B)
SUBMARINE CABLE	SUBH	SUBH	FLAT MARKER-(C)
FIBER CABLE	FIBH	FIBH	TUBULAR MARKER-(D)
DIRECT BURIED HOPE	H	H	TUBULAR MARKER, & ISOLATOR PROTECTOR-(E)
PVC OR SPLIT PVC CONDUIT			NOTE: DASHED = NOT FOUND IN FIELD
BSP/GSP OR SPLIT BSP/GSP CONDUIT			PERMIT TRACKING FORM IDENTIFIER
STEEL CASING			ROCK PROBE DEPTH AS INDICATED
REMOVE AND RESTORE ASPHALT OR CONCRETE (WIDTH AS INDICATED)			UTILITY COVER DEPTH
CORE BURE			HANDHOLE, MANHOLE OR PULLBOX
JACK AND BURE			POLE
DIRECTIONAL BORE			ANCHOR ONLY
FUTURE CABLE			GUY ONLY
REMOVE CABLE			OVERHEAD GUY CARRROW IN DIRECTION OF PULL
TO BE REMOVED OR ABANDONED (SHOW FOR HOPE)			ANCHOR AND GUY
AERIAL UTILITY (ELECTRIC)			SIDEWALK ANCHOR AND GUY
UNDERGROUND UTILITY (TELEPHONE)			FOREIGN ANCHOR AND GUY
MAIN TRACKS			PUSH BRACE (EXISTING POLE)
AUXILIARY TRACKS			ACCOUNT CODE CHANGE (ORIED TO AERIAL)
CENTERLINE			BOND AND GROUND
RIGHT-OF-WAY			CULVERT (SIZE AS INDICATED)
EDGE OF PAVEMENT			BRIDGE
SIDEWALK			WATER METER
DITCH LINE			GAS VALVE
TAX DISTRICT			FIRE HYDRANT
CITY, COUNTY OR STATE BOUNDARY LINE			RAILROAD SIGNAL CONTROL BOX
PROPERTY LINE			CAUTION NOTE
FENCE LINE			
GUARDRAIL			
TOP OF SLOPE			
TOE OF SLOPE			

[illegible]

(D) PROTECTOR-(E)
 TIER
 TED
 X
 CTION OF PULL
 TO AERIAL

STEEL MARKER AND SIGN-CD	FLAT MARKER-CD	TUBULAR MARKER-CD	TUBULAR MARKER, & ISOLATOR	MILE POST MARKER NOTE: DASHED = NOT FIELD IN FIELD	PERMIT TRACKING FORM IDENT	ROCK PROBE DEPTH AS INDICATED	UTILITY COVER DEPTH	HANDHOLE, HANDBLE OR PULLEY	POLE	ANCHOR ONLY	GUY ONLY	OVERHEAD GUY GARDEN IN DITCH	ANCHOR AND GUY	STREVALK ANCHOR AND GUY	FOREIGN ANCHOR AND GUY	PUSH BRACE EXISTING POLE	ACCOUNT CODE CHANGE COURSE	BOND AND GROUND	CULVERT SIZE AS INDICATED	BRIDGE	WATER METER	GAS VALVE	FIRE HYDRANT	RAILROAD SIGNAL CONTROL BOX	CAUTION NOTE
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E
HOPE
VC CONDUIT
IT BSP/GSP CONDUIT
STRE ASPHALT OR CONCRETE
ATED)
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OR ABANDONED
E)
ELECTRIC)
ILITY (TELEPHONE)
KS
UNT
STATE BOUNDARY LINE

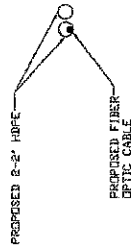
BURIED CABLE	AERIAL CABLE	SUBMARINE CABLE	FLOGWIRE CABLE	DIRECT BURIED	PVC OR SPLIT	BSP/GSP OR SP	STEEL CASING	REMOVE AND R	CUT/TH AS INDIC	CORE BORE	JACK AND BURE	DIRECTIONAL B	FUTURE CABLE	REMOVE CABLE	TO BE REMOVE	SHOWN FOR HE	AERIAL UTILIT	UNDERGROUND U	MAIN TRACKS	AUXILIARY TRAC	CENTERLINE	RIGHT-OF-WAY	EDGE OF PAVEME	SIDEWALK	DITCH LINE	TAX DISTRICT	CITY, COUNTY O	PROPERTY LINE	FENCE LINE	GUARDRAIL	TOP OF SLOPE	TOE OF SLOPE
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CONSTRUCTION DETAILS

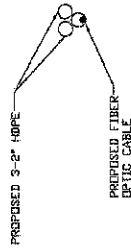
TYPICAL DETAIL A
CROSS SECTION OF PROPOSED HDPE



TYPICAL DETAIL B
CROSS SECTION OF PROPOSED HDPE

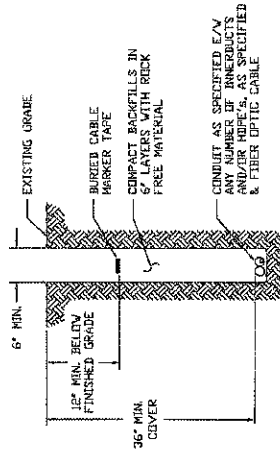


TYPICAL DETAIL C
CROSS SECTION OF PROPOSED HDPE



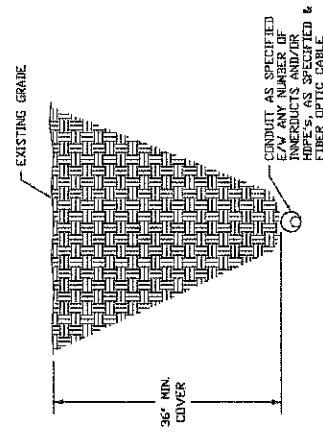
TYPICAL DETAIL D

TRENCH & PLACE CONDUIT
CITY OF SUGAR LAND & FORT BEND COUNTY



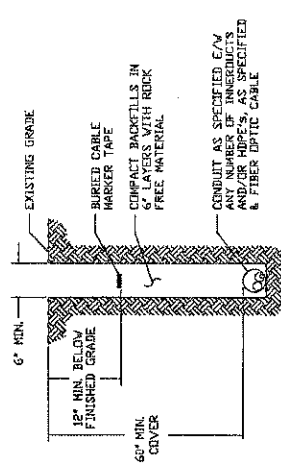
TYPICAL DETAIL E

DIRECTIONAL BORE CROSS SECTION
FOR CONDUIT
CITY OF SUGAR LAND & FORT BEND COUNTY



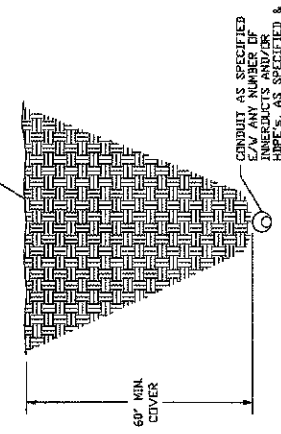
TYPICAL DETAIL F

TRENCH & PLACE CONDUIT
IN TxDOT RIGHT OF WAY



TYPICAL DETAIL G

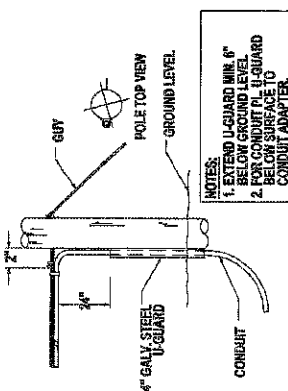
DIRECTIONAL BORE CROSS SECTION
FOR CONDUIT
IN TxDOT RIGHT OF WAY



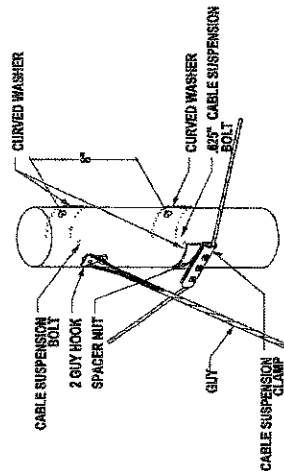
ACCESS TRANSMISSION SERVICES CORP.
MOORE
TITLE: FIBER OPTIC CABLE ROUTE
DATE: 01/03/2016
ENGINEER: GKT/JJ
DRAWN BY: GKT
REVISIONS
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PROJECT: 17090202.040
FROM: GROUND TO CINDY RASH
CINDY RASH SITE
CLARIFICATION NO. QUANTITY
HORIZONTAL: NTS
VERTICAL: NTS
MP TO MP
SHEET 07 OF 83
FILE: 17090202.040-0704.01.DWG

ARRANGEMENT FOR
AERIAL TO BURIED



ENSION STRAND - PULL TOWARD
POLE - LESS THAN 5 FEET



JOINING 045 LASHING WIRE



**FORMING WERE OVER
BYIN OF C AND**

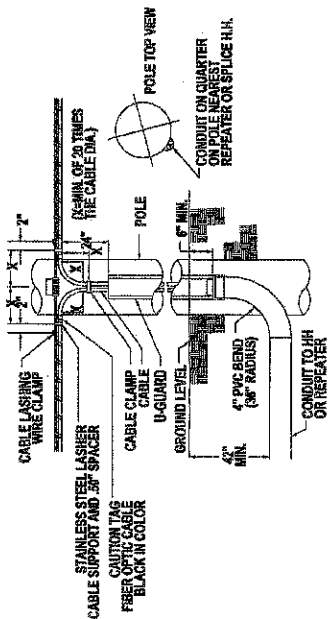
REMOVE ANY SLACK IN THE LASHING WIRE BY MAINTAINING A PULL ON THE WIRE AND TAPPING THE STRAND SHARPLY. THEN FORM THE WIRE OVER THE STUD AND TIGHTEN THE NUT. CUT THE FREE END OF THE LASHING WIRE OFF .75" BEYOND THE END OF THE CLAMP.



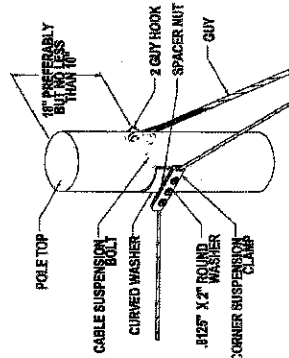
FORM THE LASHING WIRE AROUND THE STRAND AND PLACE IT BELOW THE STUD AND BETWEEN THE SECOND WASHER AND STUD SHOULD BE.

TYPICAL DETAIL "B"

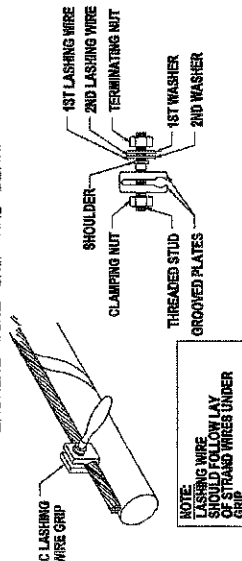
POLE ARRANGEMENT FOR REPEATER
OR HANDHOLE LOCATION



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

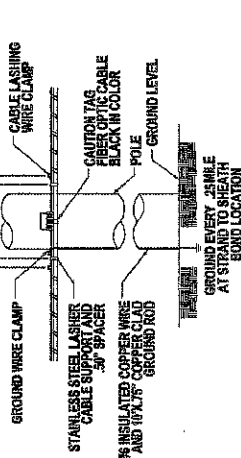


FLASHING WIRE GRIP AND CLAMP

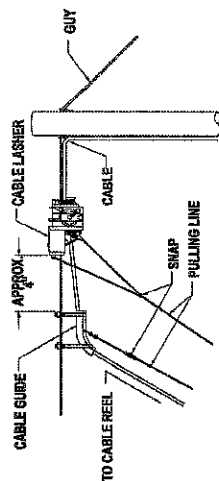


NOTE:
LASHING WIRE
SHOULD FOLLOW LAY
OF STRAND WIRES UNDER
GRIP

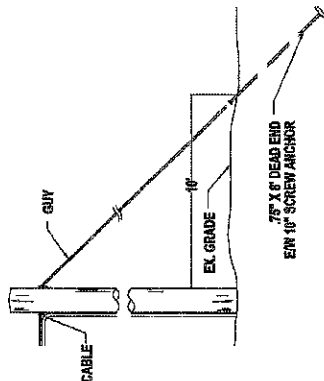
TYPICAL CABLE & HARDWARE INSTALLATION



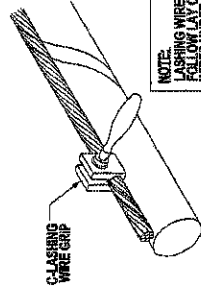
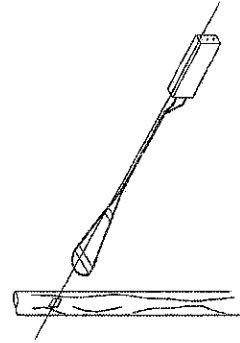
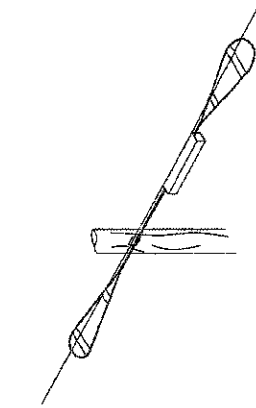
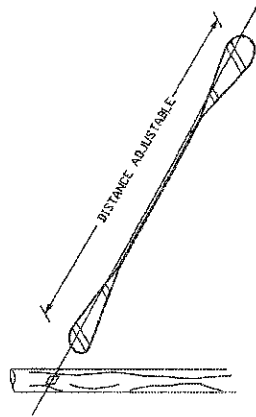
TYPICAL ARRANGEMENT OF CABLE LASHER AND CABLE GUIDE



ANCHOR & DOWN GUY

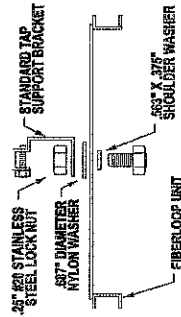
[illegible]

TYPICAL DETAIL "D"
LASHING WIRE GRIP AND CLAMP C-LASHING
WIRE GRIP INSTALLED ON STRAND

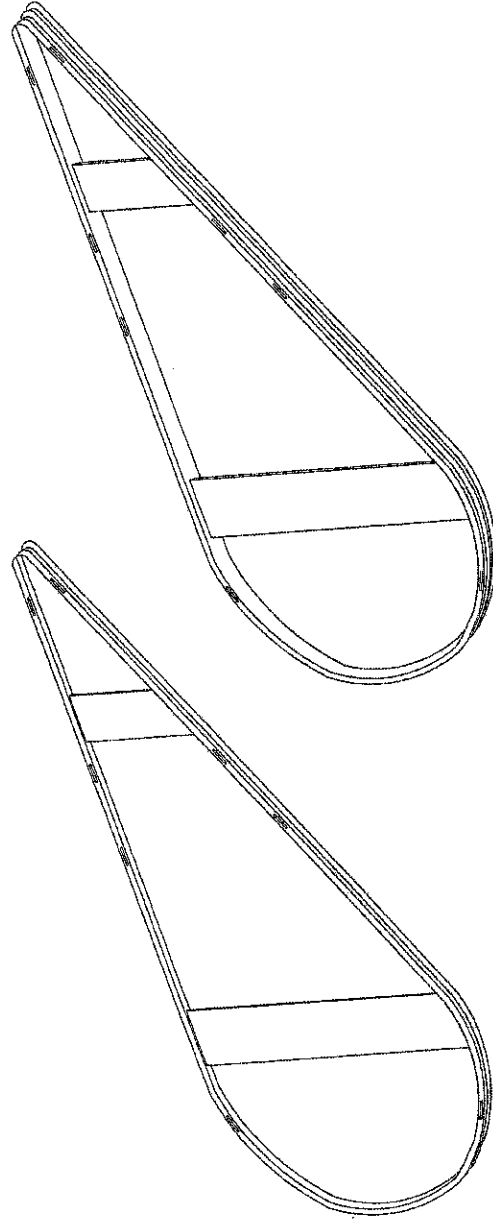


NOTE:
LASHING WIRE SHOULD
FOLLOW LAY OF STRAND
WIRES UNDER GRIP.

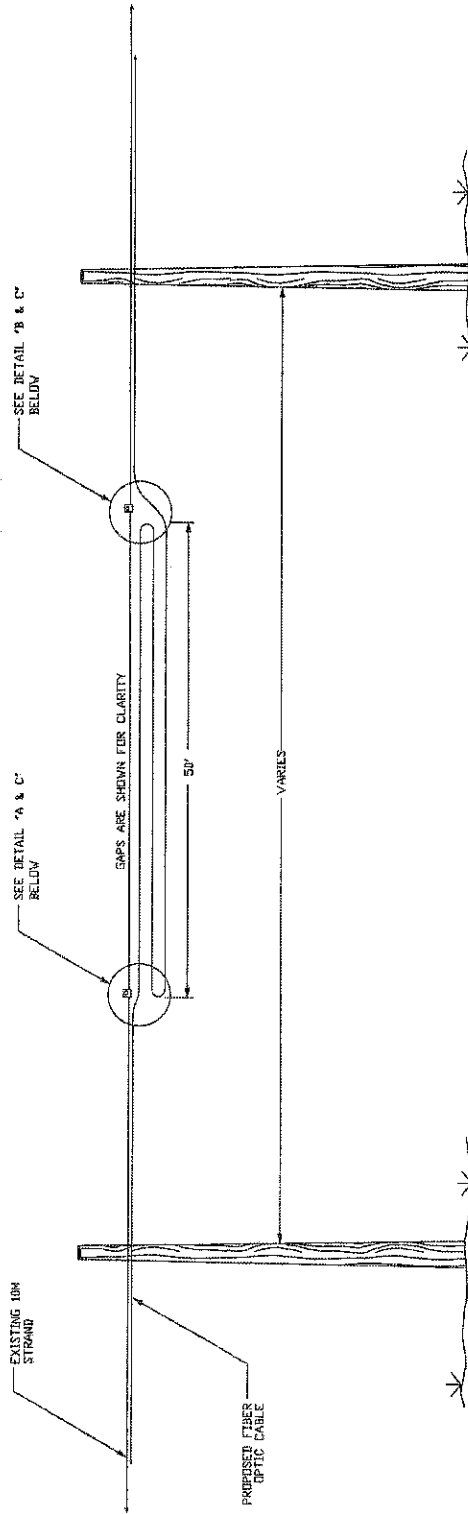
TYPICAL DETAIL "E"
HARDWARE KIT



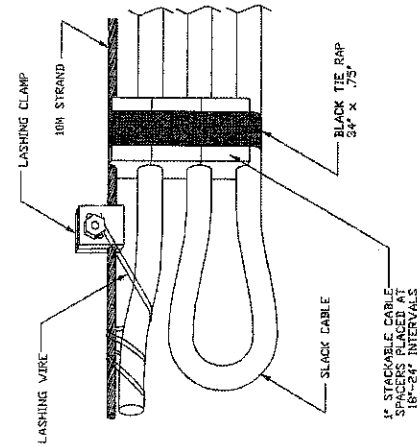
TYPICAL DETAIL "F"
SINGLE & DOUBLE FIBER LOOPS

[illegible]

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

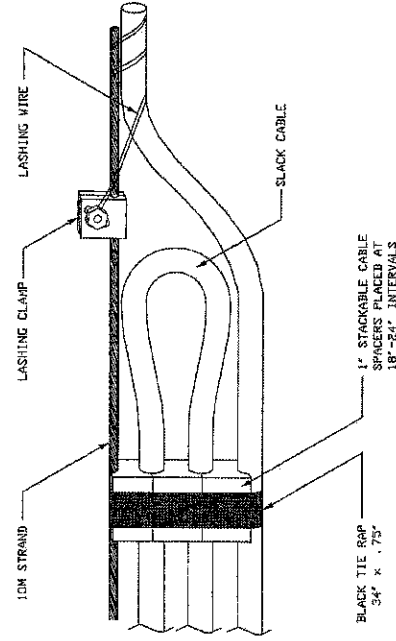


DETAIL "A"



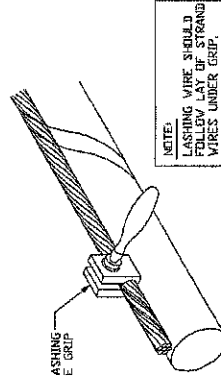
NOTE:
DO NOT EXCEED THE MANUFACTURERS SPECIFICATIONS CONCERNING MINIMUM BENDING RADIUS. THE MINIMUM BENDING RADIUS OF FIBER OPTIC CABLE UNDER TENSION WILL NOT EXCEED 20 TIMES THE CABLE DIAMETER.

DETAIL "B"



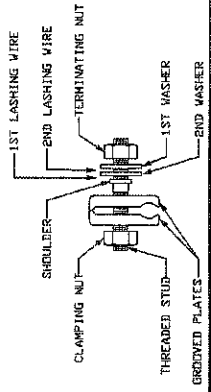
DETAIL "C"

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



NOTE:
LASHING WIRE SHOULD FOLLOW LAY OF STRAND WIRES UNDER GRIP.

D CABLE LASHING CLAMP



SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP: TO MP

SHEET 10 OF 83

FILE: 1708020 000-1042-01-100

ACCESS TRANSMISSION SERVICES CORP.
McIntire
TITLE: FIBER OPTIC CABLE ROUTE
DATE: 01/03/2008
ENGINEER: GY/JJ
DRAWN BY: GY

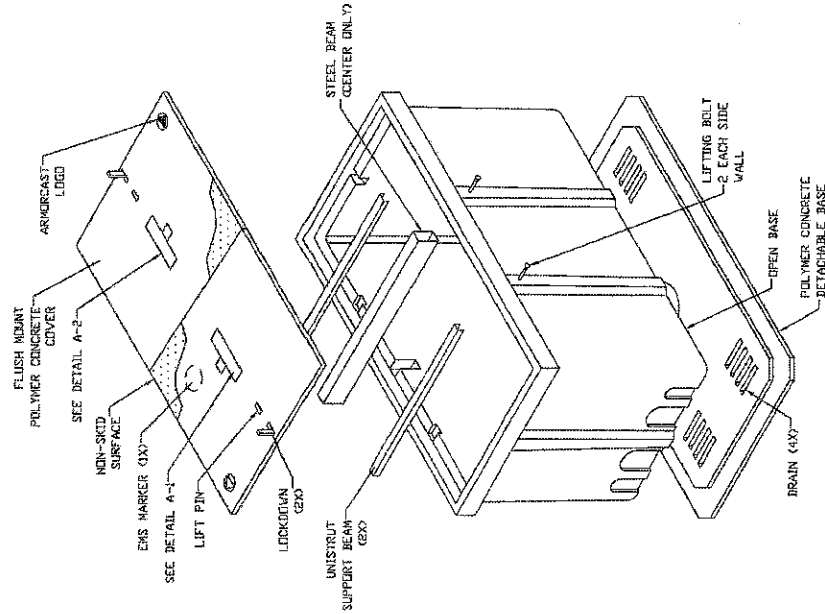
DATE	DESCRIPTION	INITIAL

PROJECT: 1708020 040
FROM: GY TO: CMC BENCH
CAND: 000-1042-01-100
CLARIFICATION NO.: QUANTITY

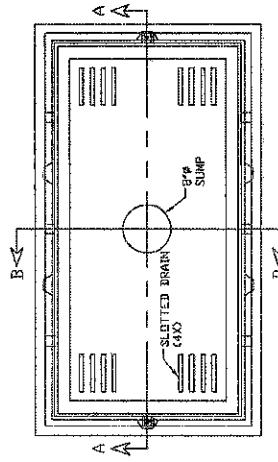
2.5' x 5' x 2.5' 30K STANDARD HANDHOLE DETAILS

DETAIL "A"

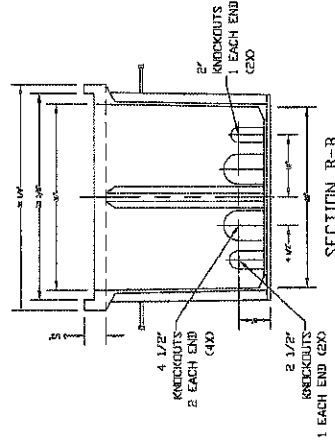
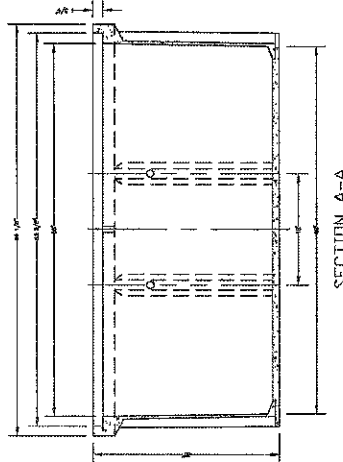
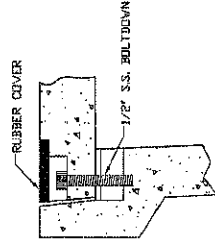
EXPLODED ISOMETRIC DETAIL



SECTION B
LOCKING DEVICE
CROSS SECTION



DETAIL "C"
FLUSH MOUNT
COVER DETAIL



30K
MCI
800 MCI-WORK
DETAIL A-1

30K
MCI
800 MCI-WORK
DETAIL A-2

NOTE:
SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN
ITEM QTY.

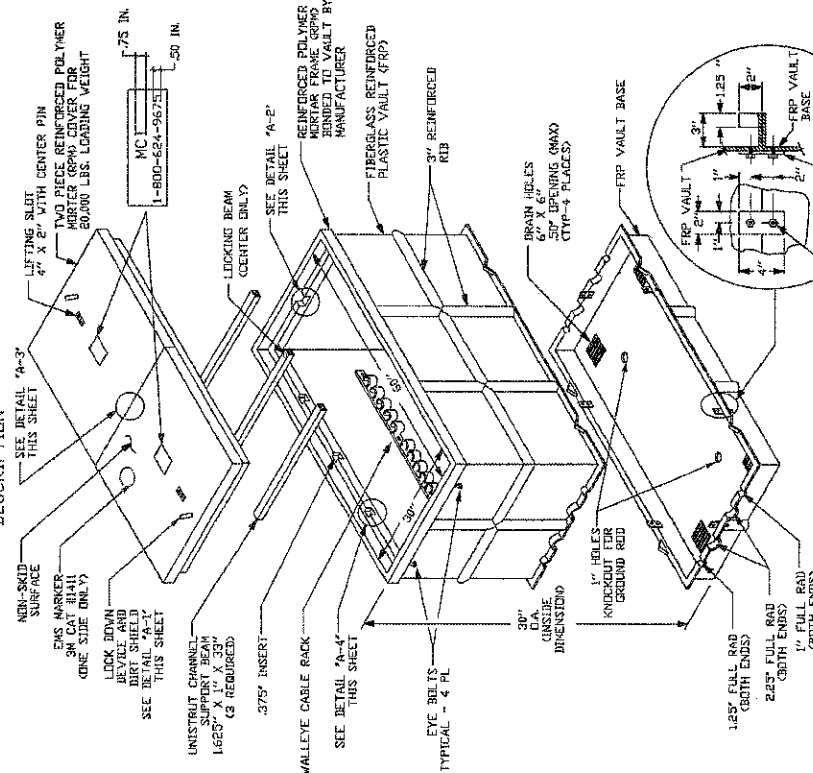
1	(1)	JOHNNY LOCK KEY
2	(2)	S.S. JOHNNY BELT W/FLAT WASHER,
3	(3)	SHRINK WRAP COVERS TO FRAM FOR PACKAGING

PROJECT: 170804220.0-40		PEMAN GRAB TO CINDO RANCH		CINDO RANCH BELL SITE		CLARIFICATION: N/A		QUANTITY:																															
DATE: 01/03/2018 ENGINEER: GXT/JJ DRAWN BY: GXT TITLE: OUTSIDE PLANT CONSTRUCTION ACCESS TRANSMISSION SERVICES CORP. PEMAN GRAB TO CINDO RANCH CINDO BELL SITE, IN 170804220.0-40																																							
REVISIONS <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>INITIAL</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>										DATE	DESCRIPTION	INITIAL																											
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SCALE <table border="1"> <thead> <tr> <th>HORIZONTAL</th> <th>VERTICAL</th> <th>NTS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>										HORIZONTAL	VERTICAL	NTS																											
HORIZONTAL	VERTICAL	NTS																																					
FILE: 170804220.0-40.114.01.01.DWG																																							

2.5' x 5' x 2.5' SPLIT HANDHOLE DETAILS

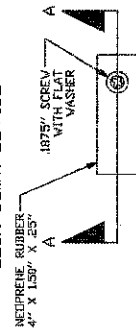
DETAIL "A"

DESCRIPTION



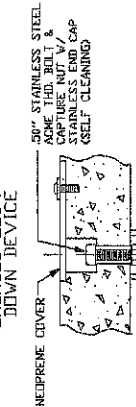
DETAIL "A-1"

LOCK DOWN DEVICE



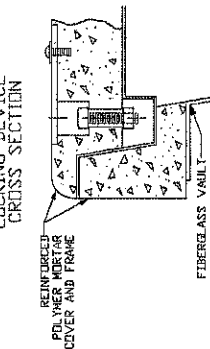
DETAIL "A-2"

ENGAGED LOCK DOWN DEVICE



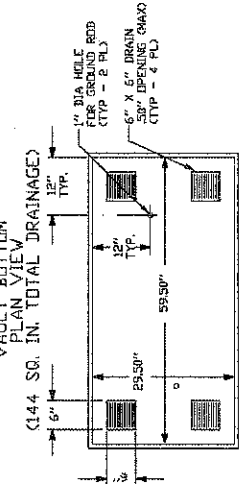
SECTION A-A

LOCKING DEVICE CROSS SECTION



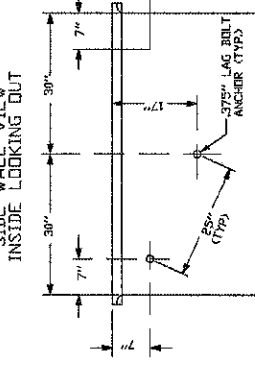
DETAIL "B"

VAULT BOTTOM PLAN VIEW (144 SQ. IN. TOTAL DRAINAGE)



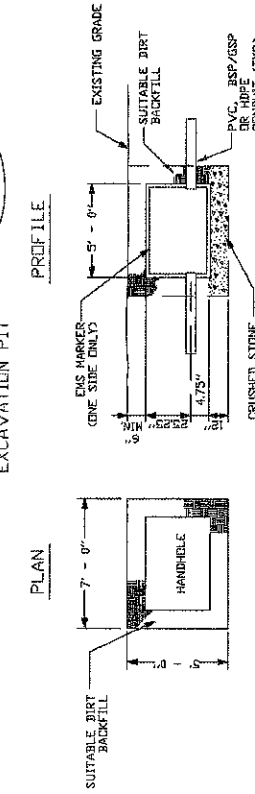
DETAIL "D"

SIDE WALL VIEW INSIDE LOOKING OUT



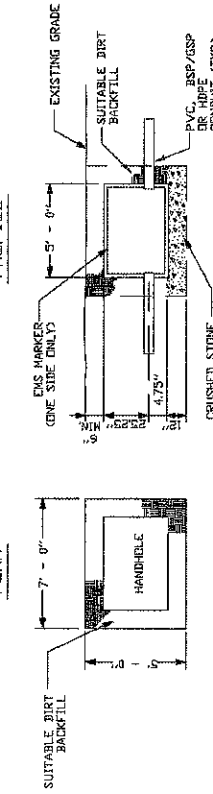
DETAIL "C"

EXCAVATION PIT



PROFILE

PLAN



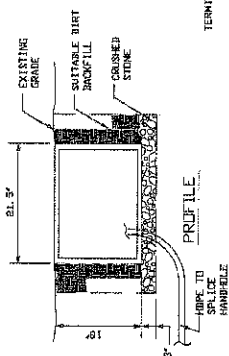
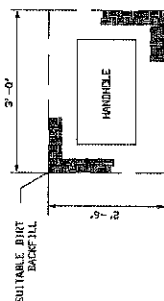
- NOTES:
1. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
 2. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 12" OF CRUSHED STONE 7/8" GRADE.
 3. EXISTING GRADE TO BE MAINTAINED.
 4. ALL HANDHOLES SHALL BE PLACED BELOW EXISTING GRADE.
 5. THIS HANDHOLE IS OF FIBERGLASS MATERIAL. APPROXIMATELY 10 LBS IN WEIGHT. THE LIDS ARE POLYMER CONCRETE MATERIAL. EACH APPROXIMATELY 10 LBS.

NOTE: LINEAR DISTANCE BETWEEN LAG BOLT ANCHORS MUST BE 50".

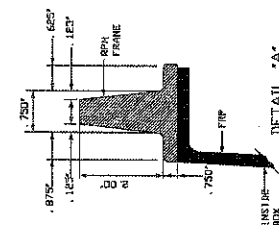
PROJECT: 1708AD20, 040
 DESIGN: 1708AD20, 040
 DRAWN: 1708AD20, 040
 CHECKED: 1708AD20, 040
 DATE: 1708AD20, 040
 TITLE: FIBER OPTIC CABLE ROUTE
 ACCESS TRANSMISSION SERVICES CORP.
 DATE: 01/03/2008
 ENGINEER: 01/03/2008
 DRAWN BY: 01/03/2008
 REVISIONS
 DATE DESCRIPTION INITIAL
 SCALE
 HORIZONTAL: NTS
 VERTICAL: NTS
 MP TO MP
 SHEET 12 OF 13
 FILE: 1708AD20-040-102-040.DWG

Diagram illustrating the exploded view of a cable tray assembly. Key components labeled include:

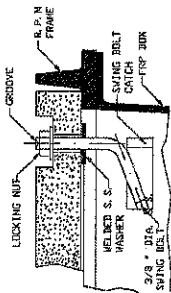
- RECESSED LOCK EDGIN
- CUSTOMER I.D.
- LIFT SLIT
- 100% COVER WHEN SKID SURFACE
- SURGE ARRESTER
- TERMINAL BLOCK
- SWING BOLT
- CATCH



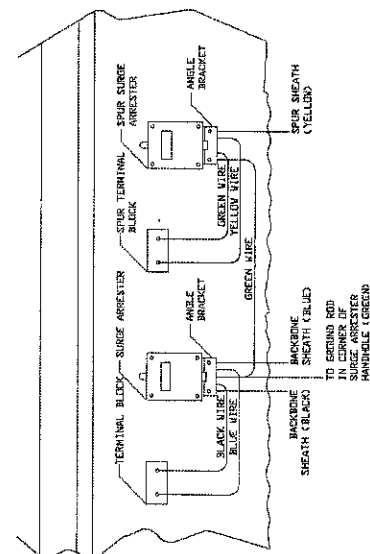
TYPICAL SURGE ARRESTER HANDHOLE



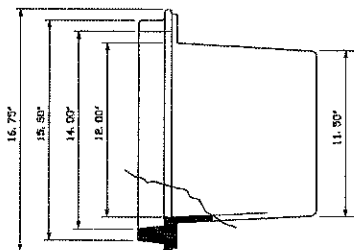
DETAIL "A"



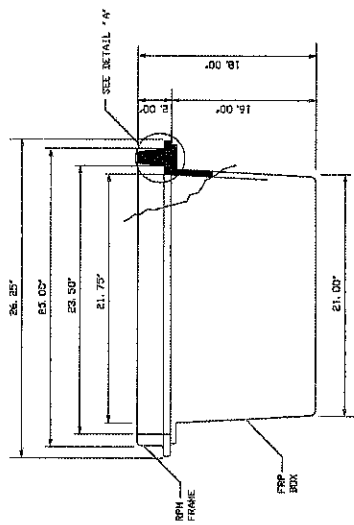
LOCKING DETAIL



SPUR CONFIGURATION DETAIL



END VIEW



SIDE VIEW

SELBEN

1. VOID IN AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
2. CRUSHED STONE (3/4" GRAVED)
3. ALL SURGE ARRESTER HANDLES SHALL BE SURFACE MOUNTED.
4. SURGE ARRESTER, TERMINAL BLOCK, AND WIRE HARDNESS WILL BE MOUNTED BY THE FACTORY.

TOP VIEW

OUTSIDE PLANT - PLANT
PECAN GROVE TO CINCINNATI
CINCINNATI TEL. 27-7550
TITLE: FIBER OPTIC CABLE ROUTE
OUTSIDE PLANT CONSTRUCTION
ACCESS TRANSMISSION SERVICES CORP.
McMinnato

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

[illegible][illegible]

SCALE

Horizontal	NTS

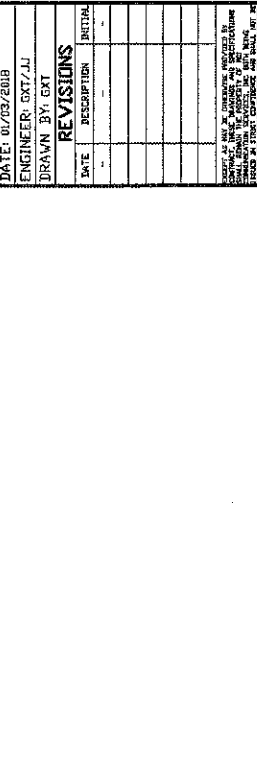
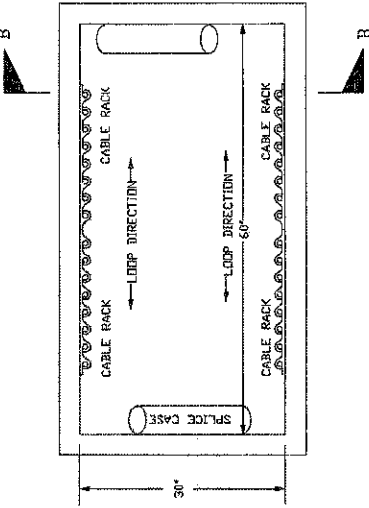
VERTICAL	NTS
MD	TD MD

SHEET 13 OF 83

FILE: 1708A720 040-134G MEL DMS

[illegible]

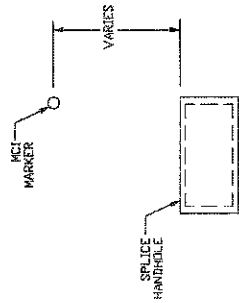
DETAIL "B"
HANDHOLE LAYOUT



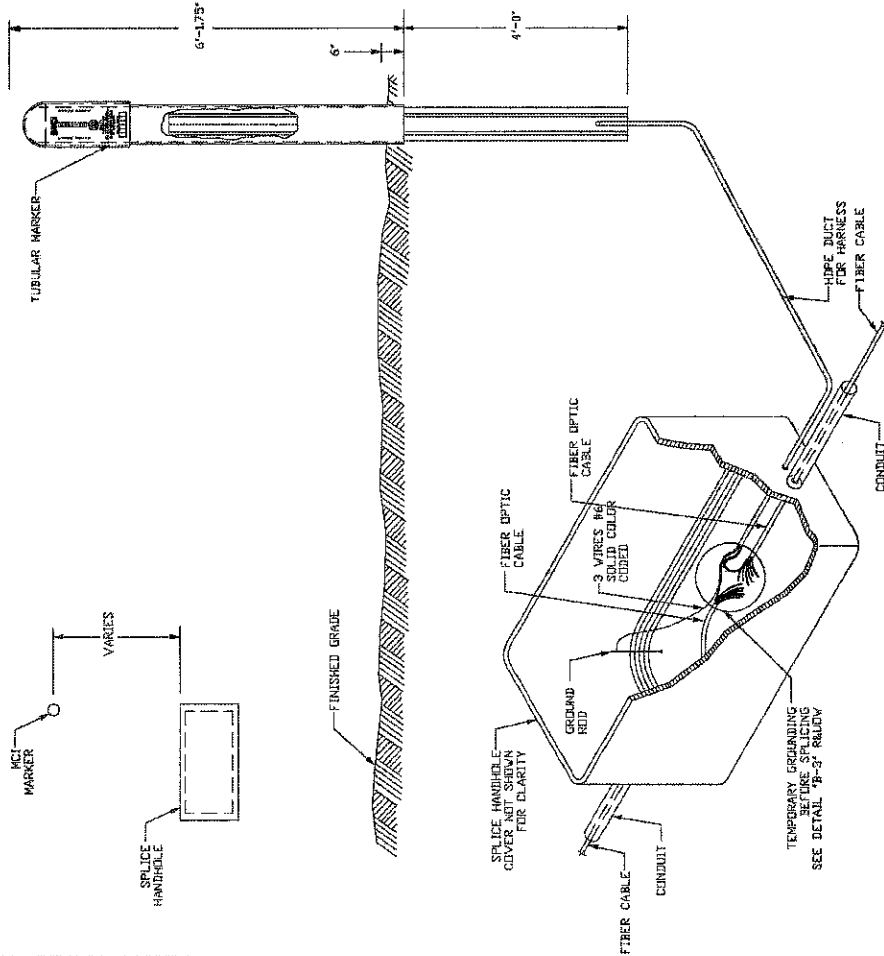
SCALE			
HORIZONTAL	NTS		
VERTICAL	NTS		
MP	TO MP		
SHEET 14	OF 83		
FILE:1708AUEZ0.040-14C.BEL.045			

CABLE GROUNDING INSTALLATION DETAILS (FOR CONTRACTOR INSTALLATION)

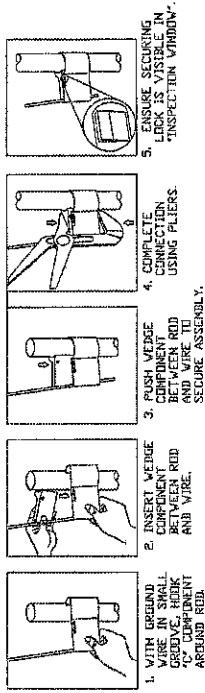
DETAIL "A"
PLAN VIEW



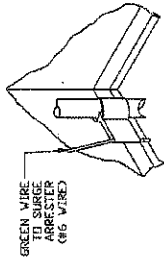
DETAIL "B"
INSTALLATION DETAIL



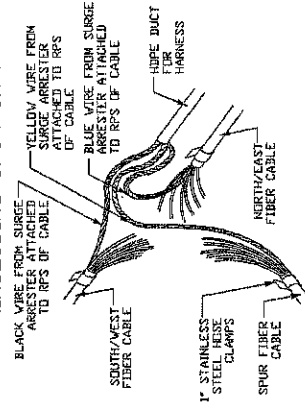
DETAIL "B-1"
C-CLOK GROUND ROD
INSTALLATION METHOD



DETAIL "B-2"
C-CLOK CONNECTOR



DETAIL "B-3"
TEMPORARY GROUNDING
(INCLUDING SPUR CABLE)



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

- NOTES:
- OSP CONTRACTOR SHALL INSTALL THE FOLLOWING MCI FURNISHED MATERIALS:
 - * 6" TUBULAR MARKER WITH HARDWARE (3)
 - * SPlice HANDLE FIGURE 8 CONNECTOR
 - * 1" STAINLESS STEEL HOSE CLAMP
 - * 1" STAINLESS STEEL HOSE CLAMP
 - 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 THE TIME THE TEMPORARY GROUND CONNECTION WILL BE MADE IN ACCORDANCE WITH DETAIL "B".
 - AFTER CONNECTION OF THE TEMPORARY GROUND, THE CONTRACTOR SHALL SEAL THE ENDS OF THE FIBER OPTIC CABLE TO PREVENT THE ENTRY OF MOISTURE.
 - TEMPORARY GROUNDING OF THE FIBER OPTIC CABLE SHALL BE MADE BY THE CONTRACTOR. THE CONTRACTOR SHALL SEAL ALL FIBER OPTIC CABLE DUCT LINE OPENINGS WITH MCI APPROVED MATERIAL TO PREVENT THE ENTRY OF MOISTURE.
 - MARKER AND HANDLE SHOULD BE PLACED IN LINE WITH THE NORTHERN CORNER OF THE SPlice HANDLE FOR NORTH/SOUTH ROUTES, THE EASTERN CORNER OF THE SPlice HANDLE FOR EAST/WEST ROUTES.

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

HP TO MP

SHEET IS OF B3

ACCESS TRANSMISSION SERVICES CORP.
MCI
TITLE: FIBER OPTIC CABLE ROUTE
OUTSIDE PLANT CONSTRUCTION
PEAK GROUND TO GROUND RISE
OUTSIDE PLANT CONSTRUCTION

DATE: 01/03/2008

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIALS

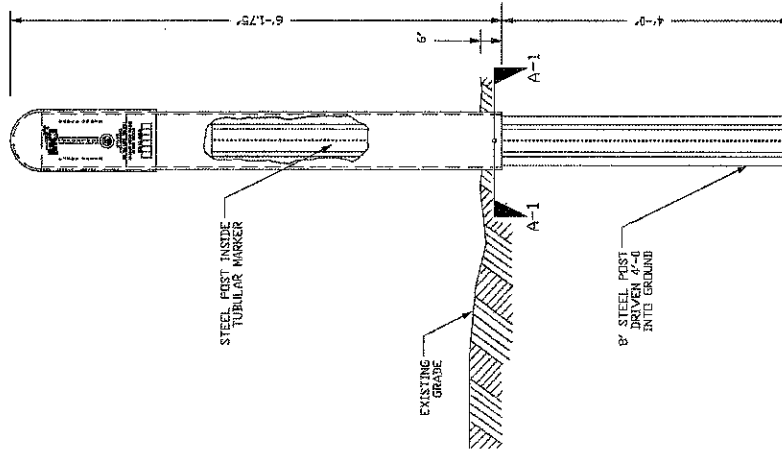
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

FILE 1700000 000 1500 REL BNC

TUBULAR MARKER DETAILS

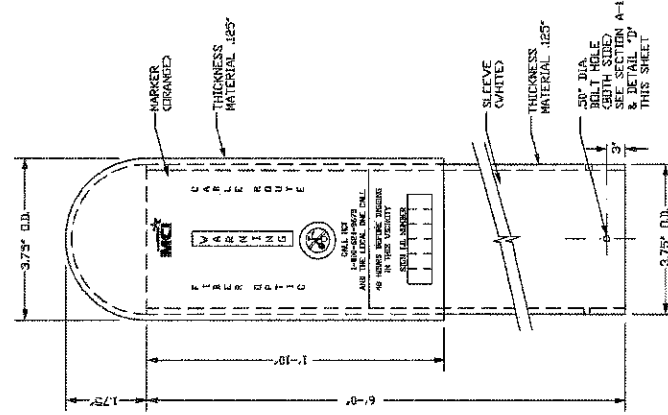
DETAIL "A"

INSTALLATION VIEW



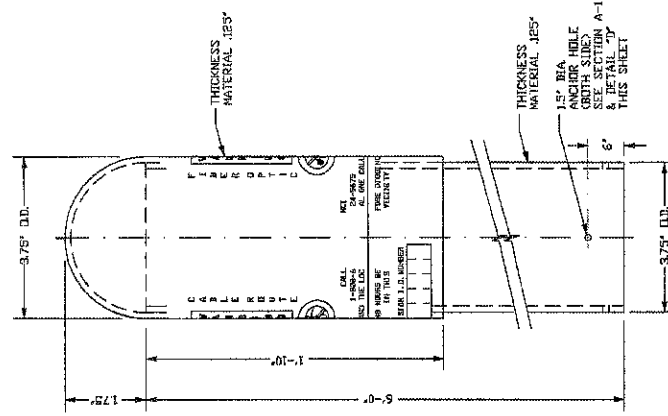
DETAIL "B"

FRONT VIEW



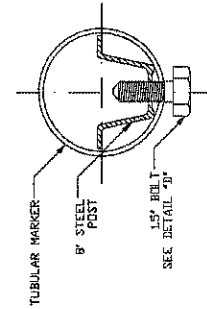
DETAIL "C"

SIDE VIEW



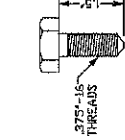
SECTION A-1

TUBULAR MARKER



DETAIL "D"

1.5" BOLT



ACCESS TRANSMISSION SERVICES CORP.
TITLE: FIBER OPTIC CABLE ROUTE
DATE: 07/03/2008
ENGINEER: GUY/AA
DRAWN BY: GUY

REVISIONS

DATE	DESCRIPTION	INITIAL

SCALE

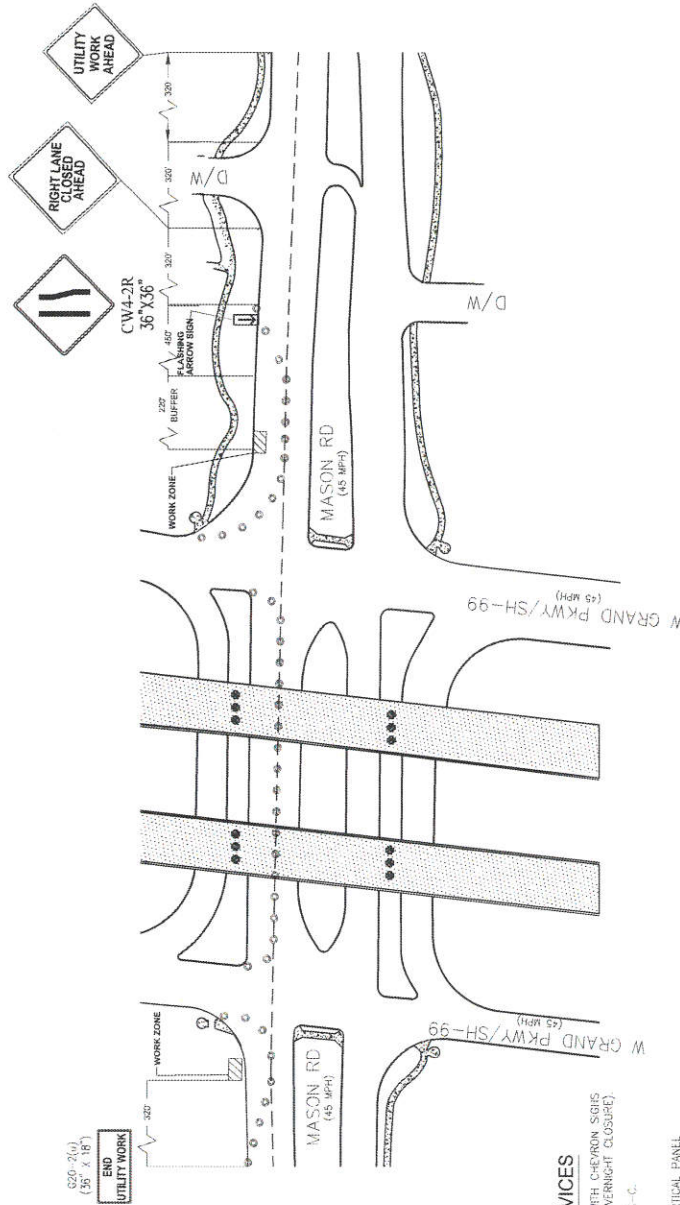
HORIZONTAL	NTS
VERTICAL	NTS
MP	TO MP
SHEET 16	OF 83

FILE:17090208.040-1600.160.160

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.



SPACING FOR CHANNELIZING DEVICES

- A - PLASTIC DRUMS ON MERRIDEN TAPER AT 30° C-0° WITH CHORDON SOLIDS AT 60° C-0° AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- B - PLASTIC DRUMS ON DOWN STEERING TAPER AT 35° C-0°.
- C - PLASTIC DRUMS ON RADI AT 5° C-0°.
- D - PLASTIC DRUMS ON LANSKRI 40° 45° C-0° WITH VERTICAL PANEL AT 70° C-0° AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- E - PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE AT 20° C-0° WITH VERTICAL PANEL AT 40° C-0° AND TYPE "A" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- F - CONCRETE TRAFFIC BARRIER (C.T.B.) OF LOW PROFILE CONCRETE WITH 12" HIGH PLASTIC DRUMS AT 15° C-0° AND TYPE "C" WARNING LIGHT. IF PAYMENT DROP IS MORE THAN TWENTY INCHES (12") SEE MORE.
- G - PLASTIC DRUM WITH GUARD RAIL MOUNTED.
- H - 28" 4-LANE MARKINGS:
 - a) 4-LANE TO 2-LANE UNDIVIDED ROADWAY SECTIONS AT 20° C-0°
 - b) 4-LANE DIVIDED ROADWAY TO ONE SIDE TWO-WAY ROAD AT 20° C-0°
 - c) LEFT LANE, RIGHT LANE STORAGE BAYS AT 15° C-0°

[illegible]

SPEED (MPH)	LONGITUDINAL BUFFER SPACE (SECONDS)
50	11
55	17
60	23
65	26
70	33
75	38
80	51
85	66
90	84
95	109
100	125
105	146
110	178
115	212
120	252

Diagram illustrating the arrangement of drums in a three-drum pack:

- 100 S-C
- 200 S-C
- 200 C-C

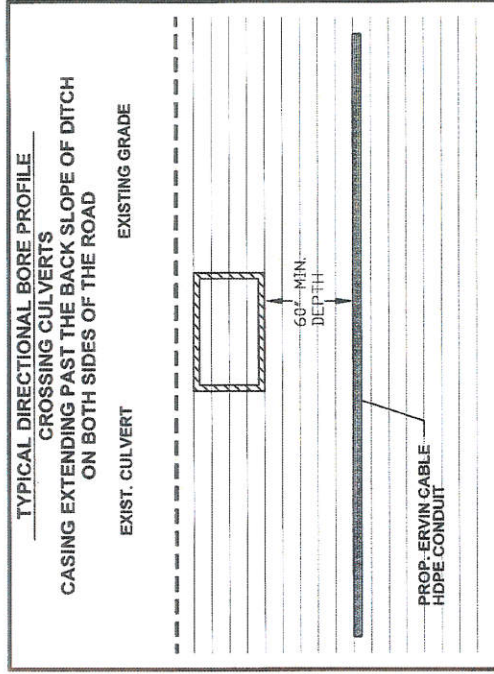
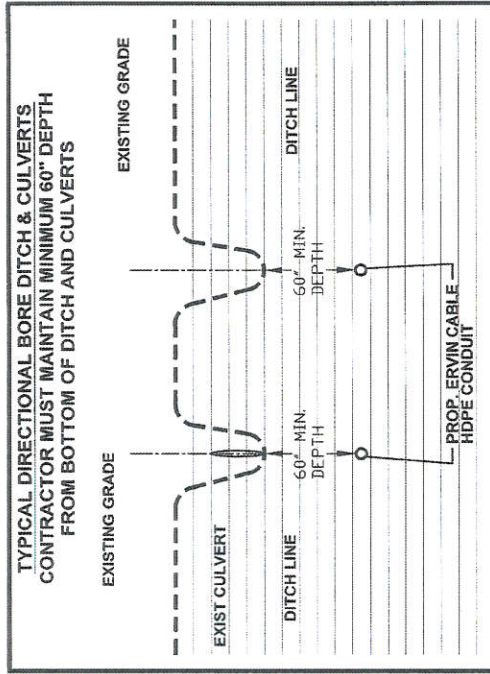
THREE-DRUM PACK

Figure 1. The three types of the test specimens used in the present study. (a) Specimen with a single layer of carbon fiber fabric, (b) specimen with two layers of carbon fiber fabric, and (c) specimen with three layers of carbon fiber fabric.

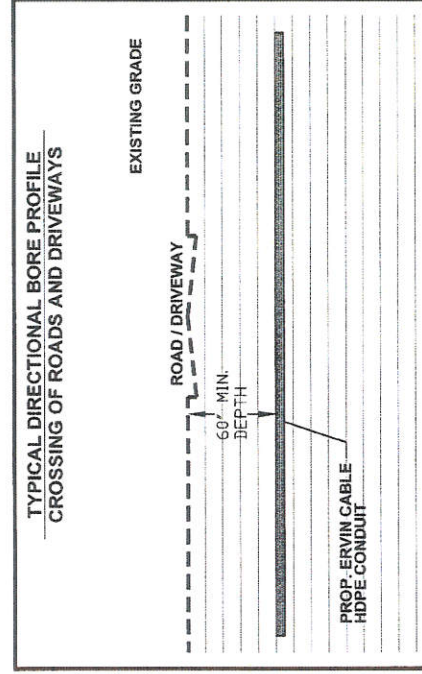
NOTE:
CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING
OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

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

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



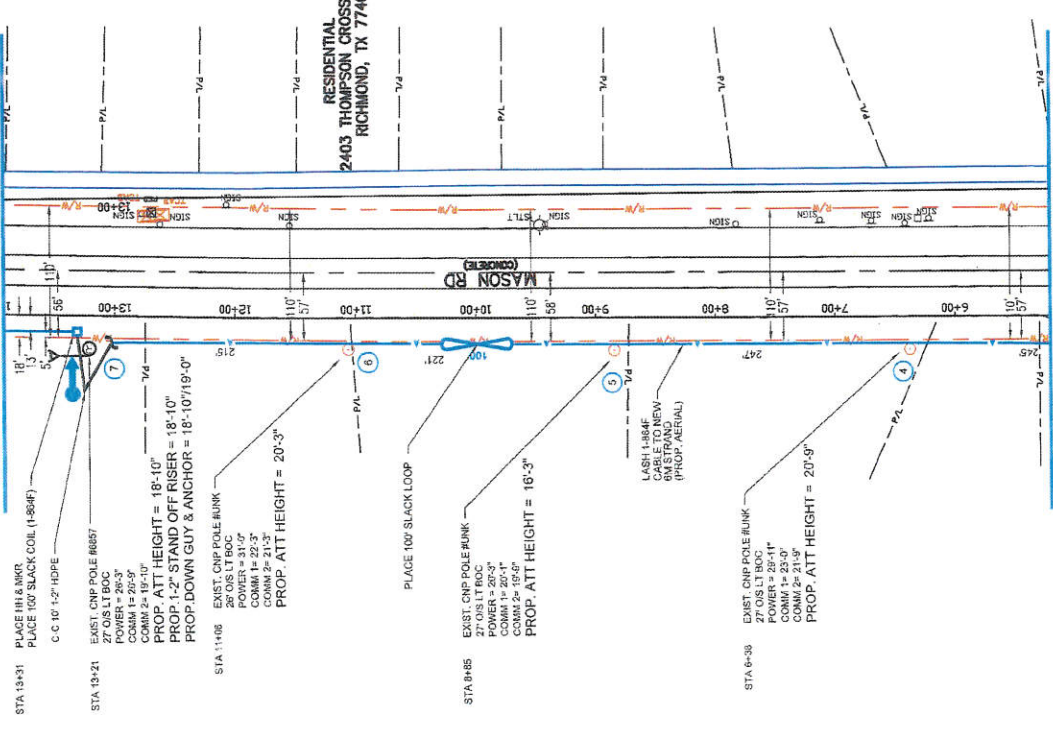
**THE ELEVATION IS APPROX. & THE CONTRACTOR WILL NEED TO
POTHOLE AND LOCATE THE UTILITY BEFORE CONSTRUCTION**



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

[illegible]

RICHMOND, TX
FORT BEND COUNTY
SEE SHEET 20 TO MATCH SURVEY STA. 13+92



SEE SHEET 18 TO MATCH SURVEY STA. 5+20



PROJECT: 1708ADZ0 C40	
PEAN DRIVE TO CIND RANCH	
CIND RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	71'
PULL 1-804F CABLE	171'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 6/4 STRAND	801'
LAST 1-804F CABLE	901'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRANSMISSION SERVICES CORP.	
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 19	OF 86
FILE: 1708ADZ0 C40-19ac.dwg	

SEE PROFILE
SHEET #19.1

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOMB RYTER CENTER AT 713-445-6278 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 TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOMB RYTER CENTER AT 713-445-6278 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED

NOTE:
CONTRACTOR TO MAINTAIN 10' MIN. DEPTH CROSSING OF ROADWAYS, DRIVEWAYS, AND CULVERTS.

NOTE:
PROP. 6/4 POLE DITS AT EACH TH LOCATION



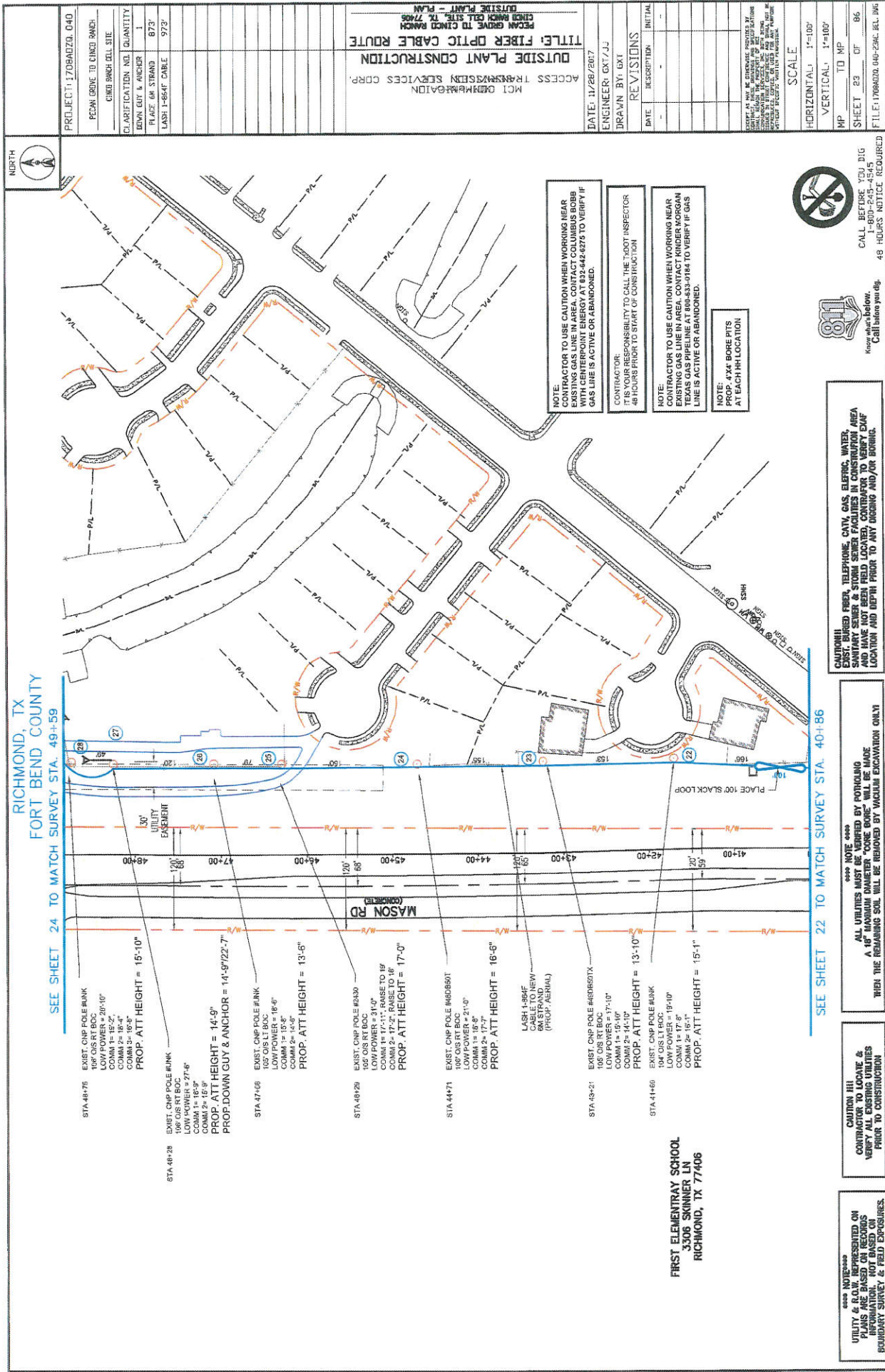
CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA. ALL UTILITIES MUST BE VERIFIED BY FORT BEND COUNTY. CALL BEFORE YOU DIG 1-800-245-4545. CALL BEFORE YOU DIG 48 HOURS NOTICE REQUIRED

CAUTION!!!
ALL UTILITIES MUST BE VERIFIED BY FORT BEND COUNTY. CALL BEFORE YOU DIG 1-800-245-4545. CALL BEFORE YOU DIG 48 HOURS NOTICE REQUIRED

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

NOTE:
UTILITY & E.O.M. REPRESENTED ON PLANS ARE BASED ON RECORDS BOUNDARY SURVEY & FIELD EXPOSURES.





NORTH

RICHMOND, TX
FORT BEND COUNTY
SEE SHEET 24 TO MATCH SURVEY STA. 49+59

SEE SHEET 22 TO MATCH SURVEY STA. 40+86

PROJECT: 1708A020.040
FIBER OPTIC CABLE ROUTE
CLARIFICATION NO. QUANTITY
DOWN GUY & ANCHOR 873
FLAT 1-8647 CABLE 973

DATE: 11/28/2007
ENGINEER: CXT/JJ
DRAWN BY: UXT
REVISIONS
DATE DESCRIPTION INITIAL

SCALE
HORIZONTAL: 1"=100'
VERTICAL: 1"=100'
MP TO MP
SHEET 23 OF 86
FILE: 1708A020.040-23A.dwg

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT KINDER MORGAN WITH CENTERPOINT ENERGY AT 832-444-6275 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 WITH CENTERPOINT ENERGY AT 832-444-6275 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:
PROP. 4"x4" BORE PITS AT EACH HH LOCATION

CAUTION!!
EXISTING BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY GUY LOCATION AND DEPTH PRIOR TO ANY DRIVING AND/OR BORING.
Know what's below.
Call before you dig.
48 HOURS NOTICE REQUIRED

CAUTION!!!
CONSTRUCTION SHALL BE VERIFIED BY POT-Holing ALL UTILITIES MUST BE VERIFIED BY POT-Holing A 16" MINIMUM DIAMETER "CORE BORE" SHALL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY PRIOR TO CONSTRUCTION

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

STATION 48+76
EXIST. CNP POLE #UNK
15' O.S. RT BOC
LOW POWER = 20'-10"
COMM 1 = 15'-2"
COMM 2 = 18'-4"
COMM 3 = 15'-2"
PROP. ATT HEIGHT = 15'-10"

STATION 47+28
EXIST. CNP POLE #UNK
15' O.S. RT BOC
LOW POWER = 21'-6"
COMM 1 = 17'-7"
COMM 2 = 15'-9"
COMM 3 = 15'-9"
PROP. ATT HEIGHT = 14'-9"
PROP. DOWN GUY & ANCHOR = 14'-9"/22'-7"

STATION 47+08
EXIST. CNP POLE #UNK
15' O.S. RT BOC
LOW POWER = 18'-6"
COMM 1 = 15'-4"
COMM 2 = 15'-4"
PROP. ATT HEIGHT = 13'-6"

STATION 46+29
EXIST. CNP POLE #UNK
15' O.S. RT BOC
LOW POWER = 21'-0"
COMM 1 = 17'-11"
COMM 2 = 15'-11"
COMM 3 = 15'-11"
PROP. ATT HEIGHT = 17'-0"

STATION 44+71
EXIST. CNP POLE #UNK
15' O.S. RT BOC
LOW POWER = 21'-0"
COMM 1 = 18'-8"
COMM 2 = 17'-7"
COMM 3 = 17'-7"
PROP. ATT HEIGHT = 16'-6"

STATION 43+21
EXIST. CNP POLE #UNK
15' O.S. RT BOC
LOW POWER = 21'-10"
COMM 1 = 17'-10"
COMM 2 = 14'-10"
COMM 3 = 14'-10"
PROP. ATT HEIGHT = 13'-10"

STATION 41+60
EXIST. CNP POLE #UNK
15' O.S. RT BOC
LOW POWER = 19'-10"
COMM 1 = 17'-8"
COMM 2 = 17'-8"
COMM 3 = 17'-8"
PROP. ATT HEIGHT = 15'-1"

NOTE:
PLACE 100' SLACK LOOP

NOTE:
LASH 1-384F CABLE TO NEW EXISTING POLE (PROP. AERIAL)

NOTE:
FIRST ELEMENTARY SCHOOL
3306 SKINNER LN
RICHMOND, TX 77406

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT KINDER MORGAN WITH CENTERPOINT ENERGY AT 832-444-6275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT KINDER MORGAN WITH CENTERPOINT ENERGY AT 832-444-6275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

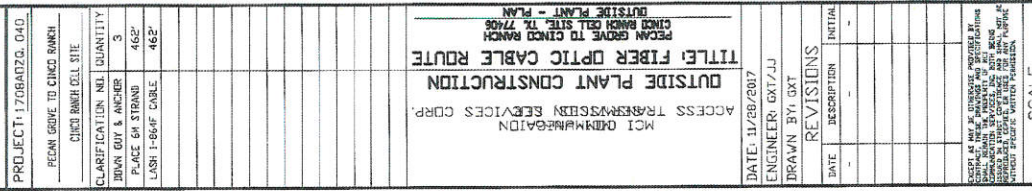
NOTE:
PROP. 4"x4" BORE PITS AT EACH HH LOCATION

NOTE:
CAUTION!!
EXISTING BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY GUY LOCATION AND DEPTH PRIOR TO ANY DRIVING AND/OR BORING.
Know what's below.
Call before you dig.
48 HOURS NOTICE REQUIRED

NOTE:
CAUTION!!!
CONSTRUCTION SHALL BE VERIFIED BY POT-Holing ALL UTILITIES MUST BE VERIFIED BY POT-Holing A 16" MINIMUM DIAMETER "CORE BORE" SHALL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY PRIOR TO CONSTRUCTION

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

SEE SHEET 24 TO MATCH SURVEY STA. 57+78

[illegible]

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

OUTSIDE PLANT CONSTRUCTION
ACCESS TRANSMISSION SERVICES CORP.
MCQ COMMUNICATIONS
PECAN GROVE TO CINDO RANCH
CINDO RANCH CELL SITE, TX, 77406
OUTSIDE PLANT - PLAN

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

[illegible]

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

MP TO MP
SHEET 25 OF 86
ST E 17080070 040-2546 051 045

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 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**

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



Know what's below.
Call before you dig.

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

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



***** 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

***** NOTE *****

[illegible]

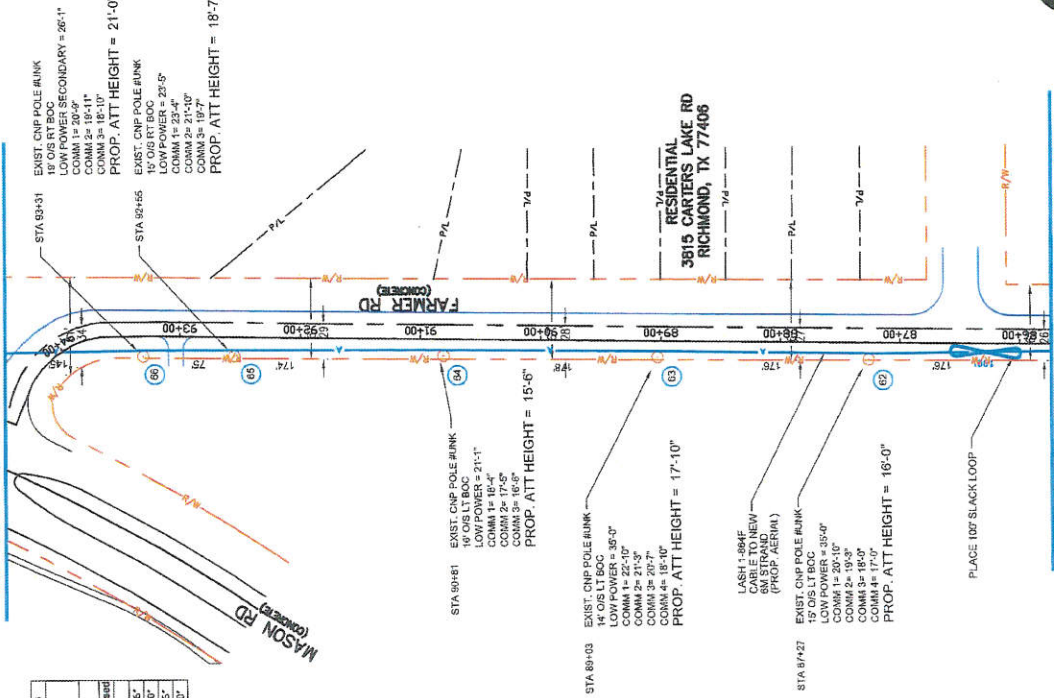
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE, TX 77068
OUTSIDE PLANT - PLAN

EXIST. CNP POLE #UNK
15' O/S RT BOC
LOW POWER SECONDARY = 26-1°
COMM 1 = 20-6°
COMM 2 = 19-11°
COMM 3 = 16-10°
PROP. ATT HEIGHT = 21'-0"

EXIST. CNP POLE #JUNK
18' O/S RT BOC
LOW POWER SECONDARY = 26'-1"
COMM 1= 20'-8"

EXIST. CNP POLE #UNK

COMM 1= 23'-4"
 COMM 2= 21'-10"
 COMM 3= 19'-7"
 PROP. ATT HEIGHT = 18'-7"



86+51

Call before you dig.



Now what's below.
Call before you dig.



Now what's below.
Call before you dig.

Call before you dig.

Call before you dig.

86+51

86+51

86+51



Now what's below.
Call before you dig.

INITIAL
RS LAKE RD
TX 77406

1. *Journal of Management Studies*, 1996, 33, 1, 1-14.

1

10

06-1-14

811-9

CALL 1-800-368-5848

Call before you dig. 48 HOURS

RICHMOND, TX
FORT BEND COUNTY



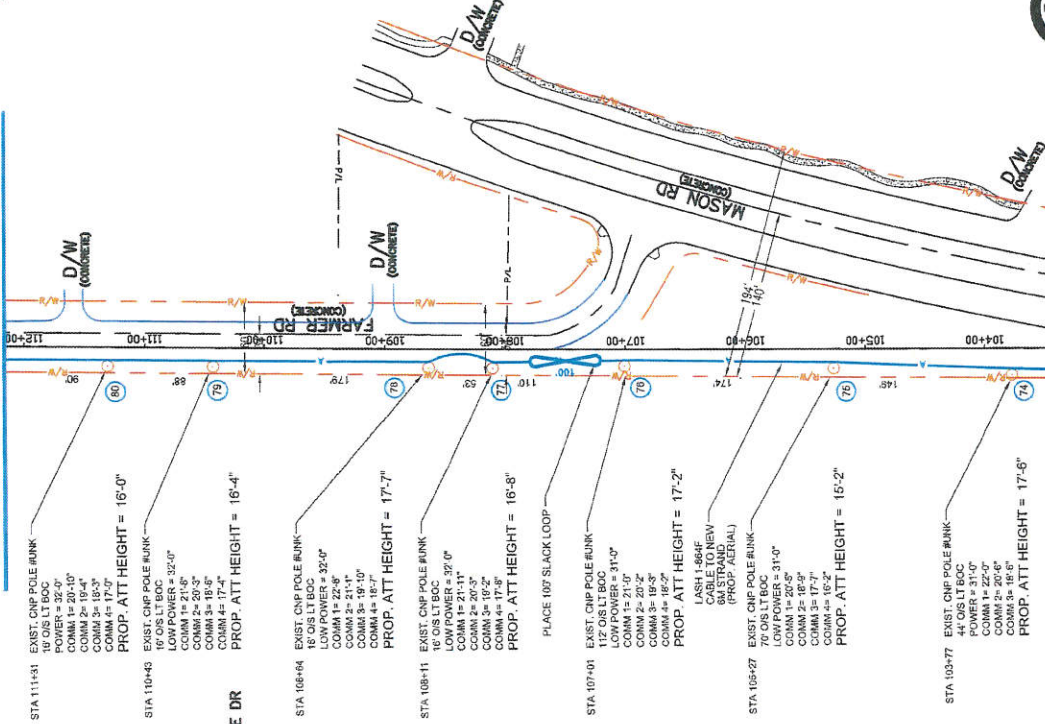
SEE SHEET 31 TO MATCH SURVEY STA. 113+78

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-4278 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
brian@hugmanfield.com OR BY PHONE (713) 868-2433
48 HOURS PRIOR TO START OF CONSTRUCTION.

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



SEE SHEET 29 TO MATCH SURVEY STA. 105+05

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 PORING
A 16" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION HH
CONTRACTOR TO MAKE &
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.



CALL BEFORE YOU DIG
1-800-4-A-SH
48 HOURS NOTICE REQUIRED

MCJ COMMUNICATION
ACCESS TRANNING SERVICES CORP.
TITLE: FIBER OPTIC CABLE CONSTRUCTION
PROJECT: 1709AD20, 040
DATE: 11/26/2017
ENGINEER: GKT/JJ
DRAWN BY: GKT

DATE	DESCRIPTION	INITIAL

DATE	DESCRIPTION	INITIAL

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

PROJECT: 1709AD20, 040
PLAN: 100' TO 100' BENCH
CLARIFICATION NO. QUANTITY
PLACE 6H STRAND 873'
LASH 1-864F CABLE 973'

RICHMOND, TX
FORT BEND COUNTY

SEE SHEET 32 TO MATCH SURVEY STA. 122+50

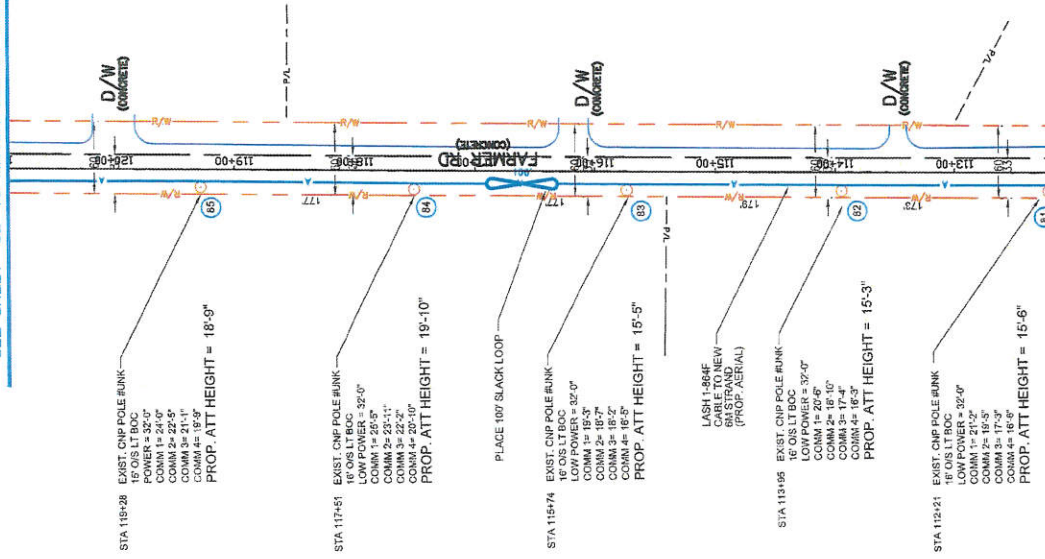
NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOBB
CONTRACTOR MUST BE NOTIFIED BY PHONE (713) 669-4413
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR
RESPONSIBILITY TO CALL THE FOOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGHAN AT
brianhughan@fortbend.com OR BY PHONE (713) 669-4413
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



SEE SHEET 30 TO MATCH SURVEY STA. 113+78

CAUTION!!
UNREINFORCED FIBER, TELEPHONE CABLE, GAS, ELECTRIC, WATER,
SEWAGE, 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 LOCATED BY PORTULOUS
A 12" MIN. DEPTH OF COVER SHALL BE MAINTAINED
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

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

NOTE
UTILITY & BOUNDARY REPRESENTATION ON
PLANS ARE BASED ON RECORDS
INFORMATION, NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.



CALL BEFORE YOU DIG
800-4-A-DIG
48 HOURS NOTICE REQUIRED

ACCESS TRANSMISSION SERVICES CORP.
MCI COMMUNICATIONS
TITLE: FIBER OPTIC CONSTRUCTION
OUTSIDE PLANT - PLAN
PECAN GROVE TO CINDO RANCH
CINDO RANCH SITE
DATE: 11/28/2017
ENGINEER: GUY/JJ
DRAWN BY: GUY

DATE	DESCRIPTION	INITIAL
11/28/2017	REVISIONS	
11/28/2017	1. INITIAL	

SCALE
HORIZONTAL: 1"=100'
VERTICAL: 1"=100'
NP TO NP
SHEET 31 OF 56
FILE: 1708A120_040

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

SEE PROFILE
SHEET #32.1



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

Know what's below.
Call before you dig.

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

PROJECT: 17084270, 040		FROM GROUND TO CURED RAMP																					
CURED RAMP CELL SITE																							
QUANTITY	DESCRIPTION	DATE: 11/26/2017																					
1	PLACE HANDRAIL	ENGINEER: GAT/JJ																					
1	PLACE MARKER	DRAWN BY: GAT																					
41P	PROP. 1-2" HDPE	REVISIONS <table><tr><th>DATE</th><th>DESCRIPTION</th><th>INITIAL</th><th></th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>		DATE	DESCRIPTION	INITIAL																	
DATE	DESCRIPTION			INITIAL																			
51P	REBAR 1-864F CABLE																						
1	-2" STAND OFF RISER																						
1	DOWN GUY 4" ANCHOR																						
671'	PLACE 6IN STAND																						
771'	LASH 1-864F CABLE																						
		SCALE <table><tr><th>HORIZONTAL</th><th>1"=100'</th></tr><tr><th>VERTICAL</th><th>1"=100'</th></tr><tr><th>MP</th><th>TO MP</th></tr></table>		HORIZONTAL	1"=100'	VERTICAL	1"=100'	MP	TO MP														
HORIZONTAL	1"=100'																						
VERTICAL	1"=100'																						
MP	TO MP																						
		SHEET 32 OF 86																					

SEE SHEET 33 TO MATCH SURVEY STA. 139+70



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
baha@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

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

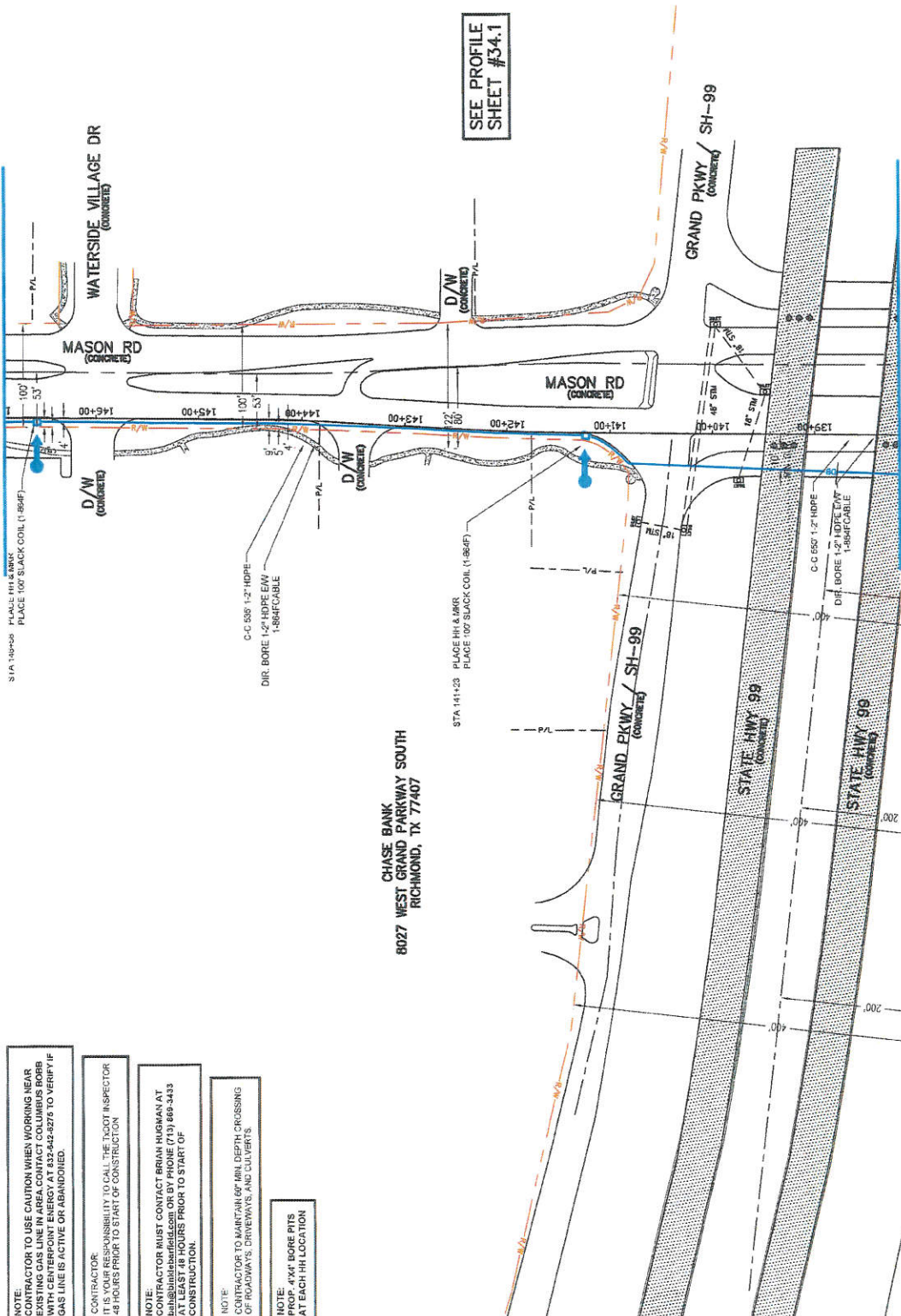
CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

[illegible]

SIA 143426 FLAUE FH & PARK

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

SEE PROFILE
SHEET #34.1



SEE SHEET 32 TO MATCH SURVEY STA. 131+23

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 BURNING.

ALL UTILITIES MUST BE NOTIFIED BY POTHOLING
A 18" HANDBURN PNEUMATIC "CORE BORE" WILL BE MADE
AND THE RESULTS WILL BE REPORTED BY MOBILE EMERGENCY ONLY

**CAUTION IIII
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.



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

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP TO MP

SHEET 34 OF 80

FILE: 1708ADZ9, 04D-34AC, BEL

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

ATE: 11/28/2017

ENGINEER: GXT/JJ

RAWN BY: GXT
REVISIONS

REVISIONS		
DATE	DESCRIPTION	INITIAL

1990	1991	1992
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SCALE

SCALE 10-100

VERTICAL	$\theta = 100^\circ$
VERTICAL	$\theta = 100^\circ$

VENTILATOR 1-100

SHEET 34 OF 86

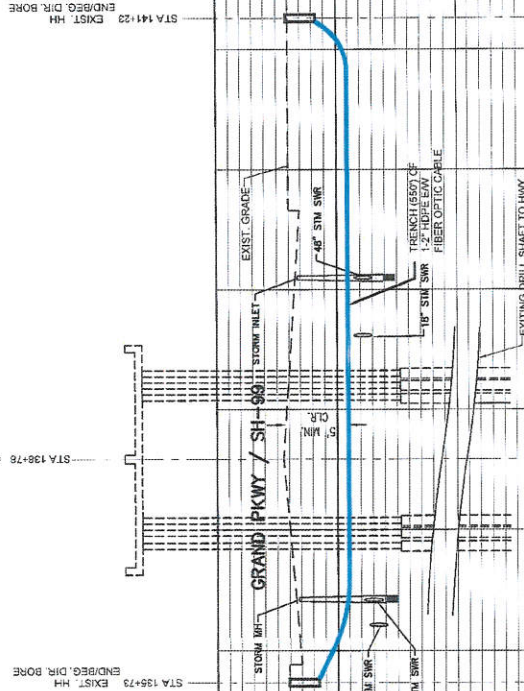
CALL: 1-800-4-A-DRUGS

Journal of Management Inquiry 23(1) 3-16
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DOI: 10.1177/1056492614525001
<http://jmi.sagepub.com>

ROSENBERG, TX
FORT BEND COUNTY

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

SCALE:
HOR: 1" = 100'
VER: 1" = 10'



PROJECT: 1708ARIZ039
READING TO PECAN GROVE
PECAN GROVE CELL SITE
CLARIFICATION NO. QUANTITY

ACCESS TRANSMISSION SERVICES CORP.
MCI
TITLE: FIBER OPTIC CABLE ROUTE
DATE: 12/20/17
ENGINEER: GAT/JJ
DRAWN BY: GAT

REVISIONS
DATE DESCRIPTION INITIAL

SCALE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

SHEET 341 OF 48
FILE: 1708ARIZ039-34-AC-REL-140



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

CAUTION!!!
UNDERGROUND RIVER, TELEPHONE, CITY, 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.

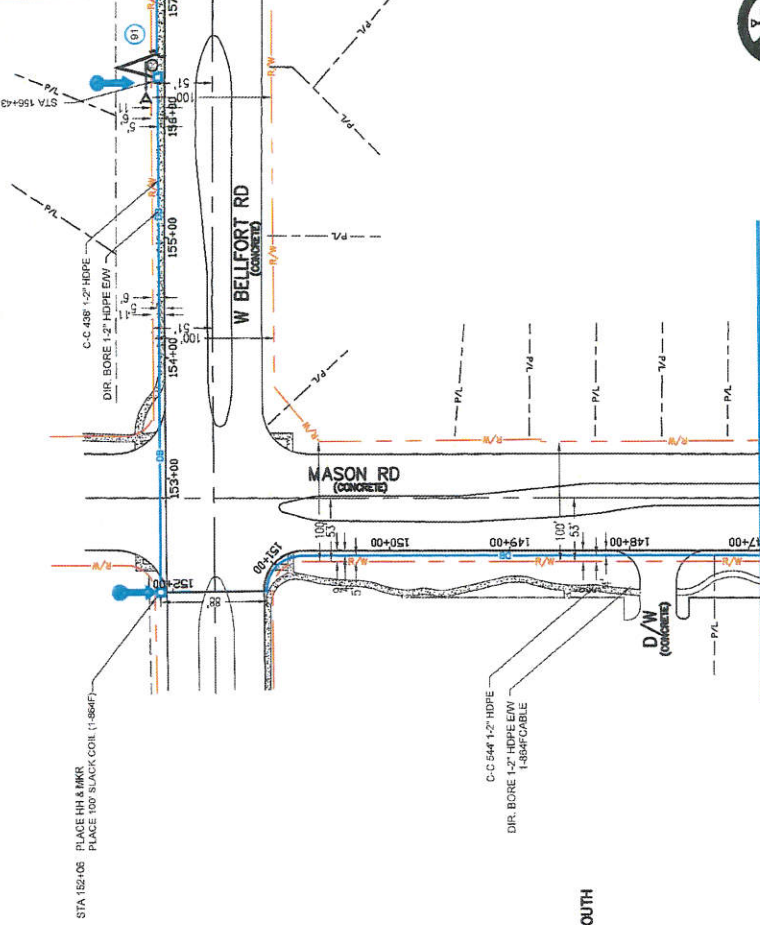
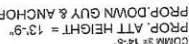
NOTE
ALL UTILITIES MUST BE VERIFIED BY POINTEERING
A 48\"/>

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

NOTE
UTILITY & RECORD REPRESENTATION ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

SEE SHEET 35 TO MATCH SURVEY STA. 158+28



STARBUCKS
8011 WEST GRAND PARKWAY SOUTH
RICHMOND, TX 77407

++++ NOTE
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BONE" 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, CONTRAFOR TO VERIFY EXAF-
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

SEE SHEET 33 TO MATCH SURVEY STA 148+00



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

Know what's below.
Call before you dig.

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 17-102M

VERTICAL: T-103	TEMP: T-103
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THE

SHEET 35 OF 8

FILE: 17C8ADZD.040-35AC.BEL.

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RICHMOND, TX
FORT BEND COUNTY

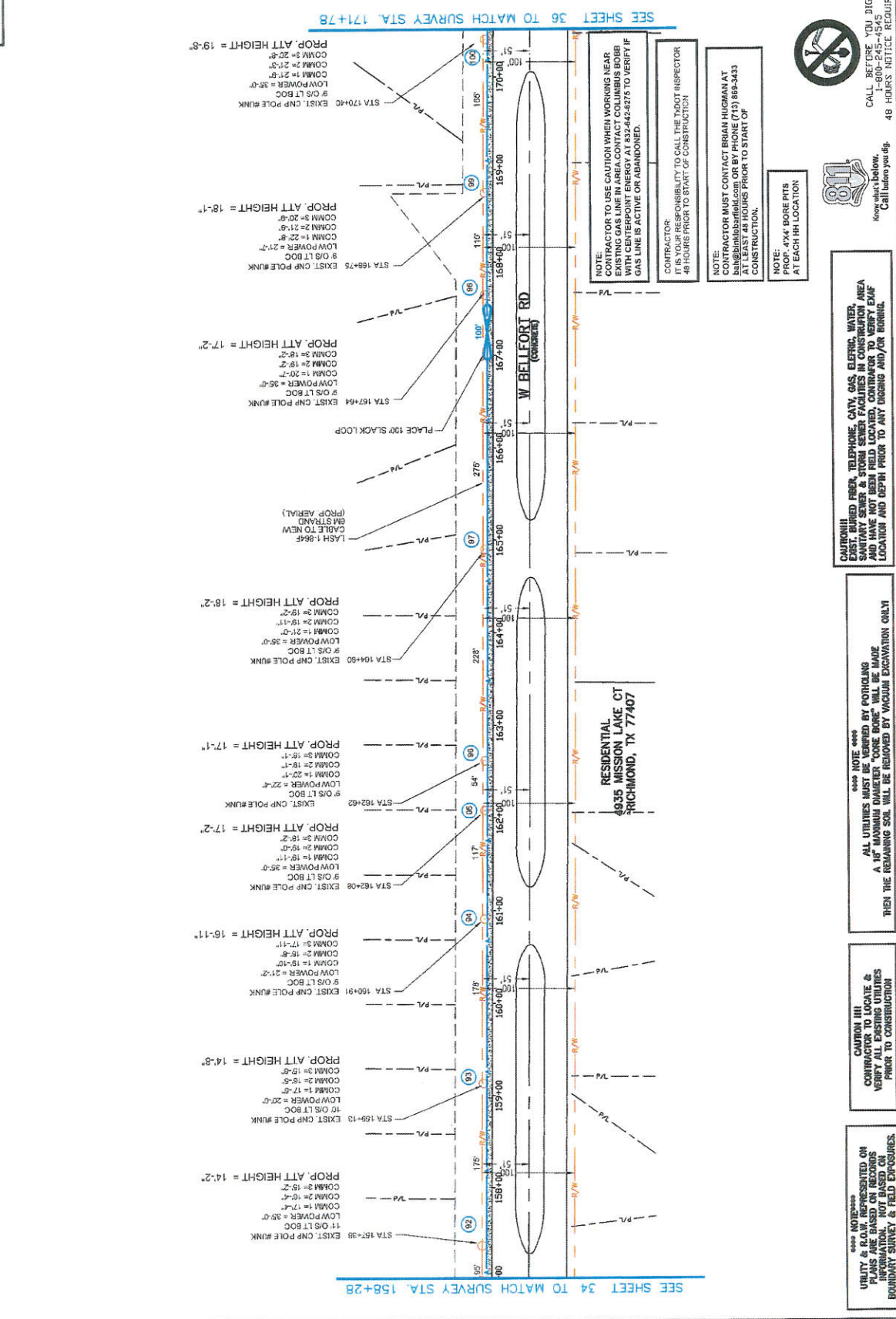


PROJECT: 1709ALZG. 040	
MEAN DRIVE TO CINDY BANCH	
CINDY BANCH CELL SITE	
CLASSIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HIPE	35'
PULL 1-864F CABLE	135'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE OH STAND	1315'
LASH 1-864F CABLE	1415'

TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRANSMISSION SERVICES CORP.	
MCI DIVERSIFIED	
CINDY BANCH CELL SITE, TX 77405	
OUTSIDE PLANT - PLAN	

DATE: 11/28/2017	ENGINEER: GAT/JJ
DRAWN BY: GAT	REVISIONS
DATE	DESCRIPTION
INITIAL	

SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
MP TO MP	
SHEET 36 OF 06	
FILE: 1709ALZG. 040-SAC REL.DWG	



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



Keep with below.
Call lines per log.

CAUTION!!!
ELECTRIC, BURIED FIBER, TELEPHONE, CANY, GAS, PETROLEUM, WATER, AND OTHER UTILITIES MAY BE LOCATED IN THE AREA. CONTRACTOR MUST VERIFY EXACT LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE
ALL UTILITIES MUST BE VERIFIED BY POINHLING A 16" MAXIMUM DIAMETER 'CORE GORE' WILL BE IN USE WHEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY.

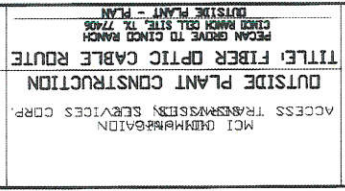
CAUTION !!!
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE
UTILITY & FIELD INFORMATION NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

SEE SHEET 34 TO MATCH SURVEY STA. 158+28

SEE SHEET 36 TO MATCH SURVEY STA. 171+78

SEE PROFILE
SHEET #38.1

[illegible]

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HORIZONTAL	1"=100'
VERTICAL	1"=100'
MP	TO MP
SHEET	38 OF 86
FILE:1708AD79, 040-38AC, REL. DNG	

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" MANGNIUM DIAMETER "CORE BORE" WILL BE MADE

THEN THE REMAINING SOI WILL BE REMOVED BY VACUUM EXCAVATION ONLY

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

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

Now what's below.
Call before you dig.



1

YOU DID
1545

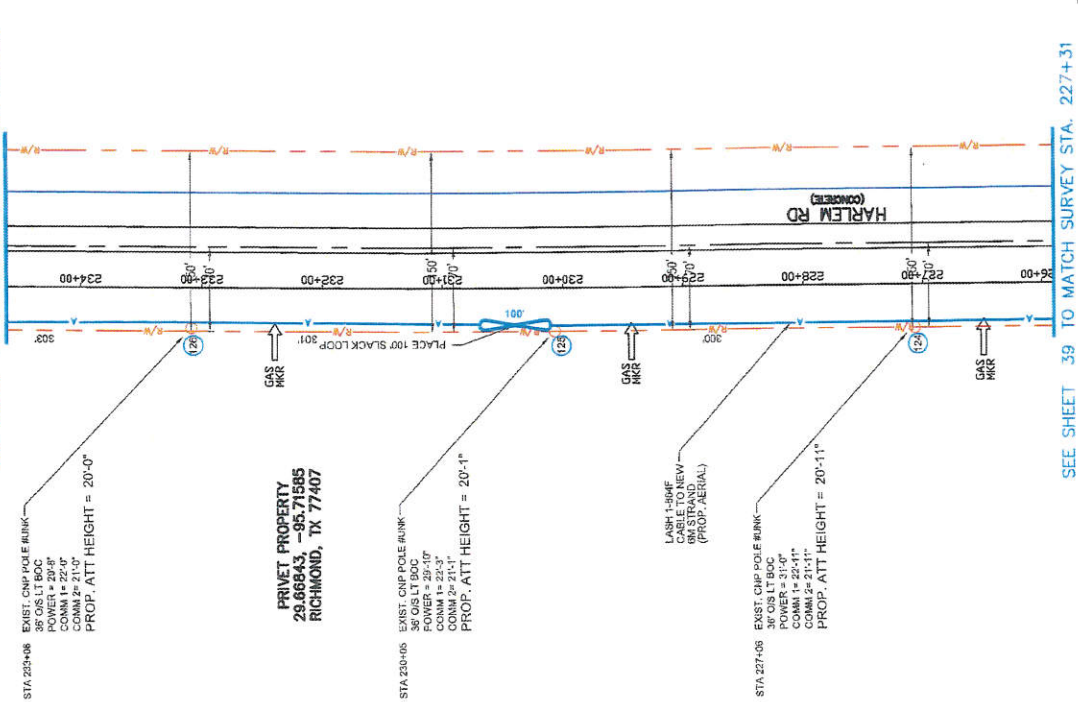
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1

1

RICHMOND, TX
FORT BEND COUNTY
SEE SHEET 41 TO MATCH SURVEY STA. 236+02



SEE SHEET 39 TO MATCH SURVEY STA. 227+31



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOMB DETECTOR. CALL 800-442-4275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR:
FOR RESPONSIBILITY TO CALL THE TROOP INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGHMAN AT brianhughman@earthlink.net OR BY PHONE (713) 869-2433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

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

PROJECT: 1708ADZG. 040	
PECAN GROVE TO CINDO RANCH	
CINDO RANCH DEL. SITE	
CLASSIFICATION NO.	QUANTITY
PLACE 6" STRAND	871'
LASH 1-804F CABLE	971'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRAILWAY SERVICES CORP.	
MCI COMMUNICATIONS	
DATE: 11/28/2017	
ENGINEER: GXT/JJ	
DRAWN BY: GXT	
REVISIONS	
DATE	DESCRIPTION
INITIAL	INITIAL
SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
MP	TO MP
SHEET 41	OF 85
FILE: 1708ADZG. 040-142. RL. DWG	



CALL BEFORE YOU DIG
1-800-245-4345
48 HOURS NOTICE REQUIRED



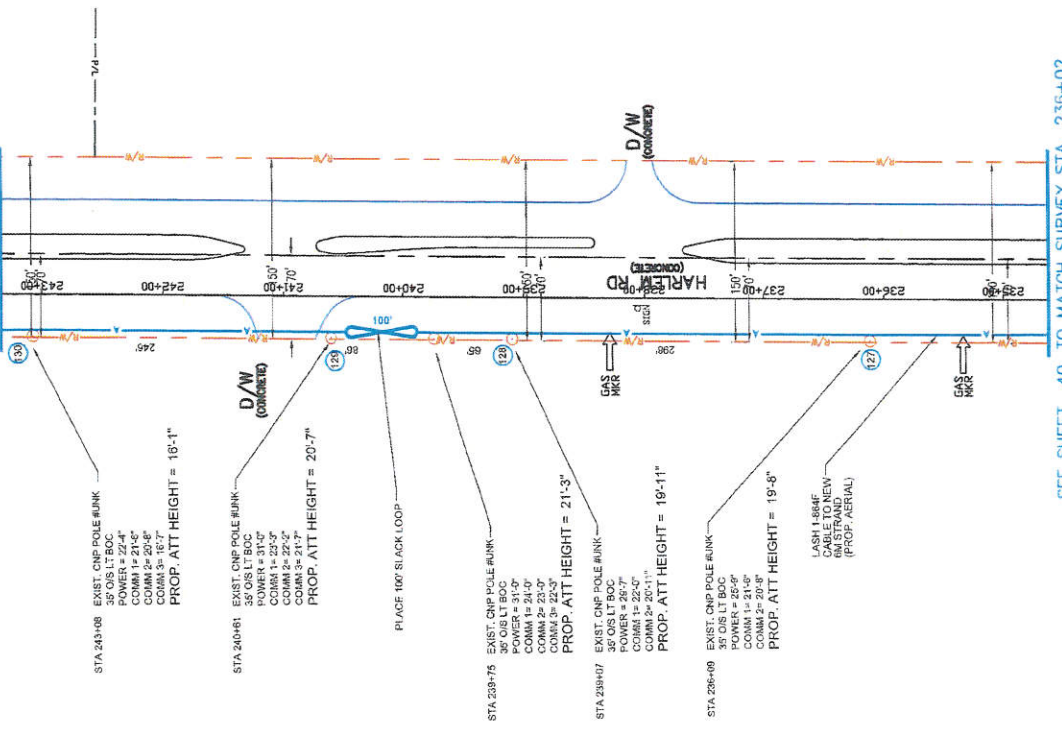
CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATH. GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO ANY EXCAVATION AND/OR BORING.

NOTE
ALL UTILITIES MUST BE VERIFIED BY POHOLING 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/W ARE REPRESENTED ON PLANS ARE BASED ON RECORDS BOUNDARY SURVEY & FIELD ENGINEERING.

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



SEE SHEET 40 TO MATCH SURVEY STA. 236+02



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOBB 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 HUGHMAN AT 832-442-4275 PRIOR TO START OF CONSTRUCTION.

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

THE SPOT
8823 HARLEM RD
RICHMOND, TX 77407

ACCESS TRANSMISSION SERVICES CORP.
MCI COMMUNICATIONS
TITLE: FIBER OPTIC CABLE ROUTE
DATE: 11/26/2017
ENGINEER: GAT/JJ
DRAWN BY: GAT

REVISIONS

DATE	DESCRIPTION	INITIAL

PECAN GROVE TO CINDY RANCH
CINDY RANCH CELL SITE

PROJECT 1708A020.040
PLAN SCALE 1"=100'
VERTICAL SCALE 1"=100'
HORIZONTAL SCALE 1"=100'
SHEET 42 OF 86
FILE: 1708A020.040-42C.BEL 365



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



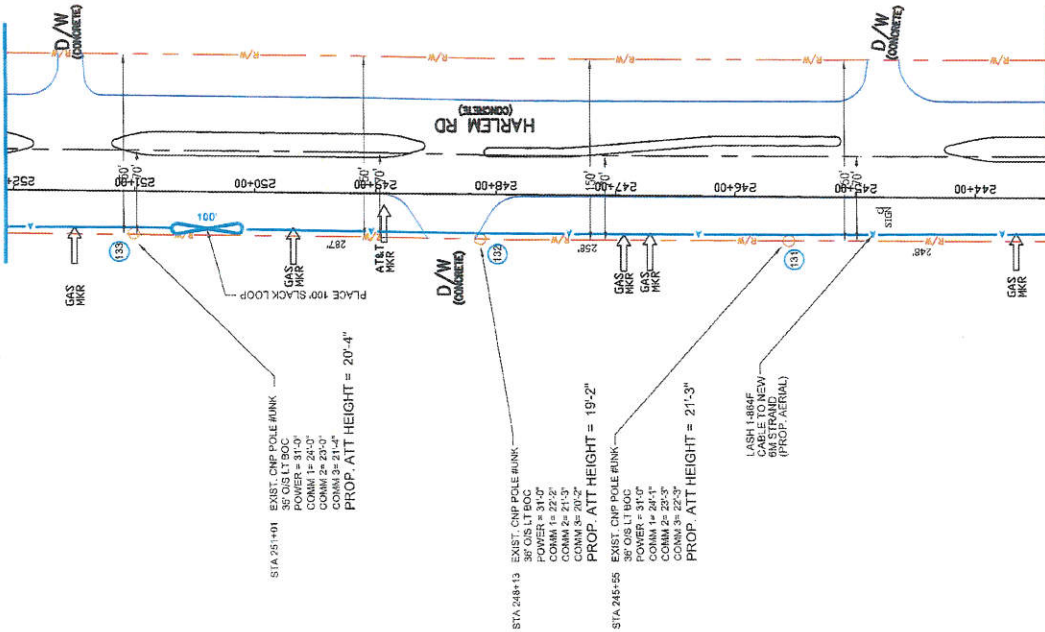
CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES COULD BE DAMAGED BY EXCAVATION. VERIFY LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE
ALL UTILITIES MUST BE VERIFIED BY POROLONG 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 & R.O.W. REPRESENTED ON PLANS ARE BASED ON FIELD SURVEY & FIELD EXPOSURES.

RICHMOND, TX
FORT BEND COUNTY
SEE SHEET 43 TO MATCH SURVEY STA. 253+47



PRIVET PROPERTY
29.87176, -95.71427
RICHMOND, TX 77407



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

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER, AND OTHER UTILITIES MAY BE PRESENT IN THE WORK 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 FORTIFYING A 10' MAXIMUM DIAMETER HOLE TO BE MADE WHEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY.

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

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



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-442-4276 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

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

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT brian@linkshand.com OR BY PHONE (713) 866-3453 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION

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

PROJECT: 1708A020_040
PLAN: DRIVE TO CINDO RANCH
CINDO RANCH CELL SITE
CLARIFICATION NO: QUANTITY
PLACE 6M STRAND: 873'
LASH 1-864F CABLE: 973'

DATE: 11/28/2017
ENGINEER: GUY/JJ
DRAWN BY: GUY
REVISIONS:

DATE	DESCRIPTION	INITIAL

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

SHEET: 43 OF 86
MP TO MP:
FILE: 1708A020_040-040C.DWG

TITLE: FIBER OPTIC CABLE ROUTE
ACCESS: TRANSMISSION SERVICES CORP.
MCJ COMMUNICATION
PEOPLES DRIVE TO CINDO RANCH
CINDO RANCH CELL SITE, TX 77408
OUTSIDE PLANT - PLAN

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

RICHMOND, TX

FORT BEND COUNTY

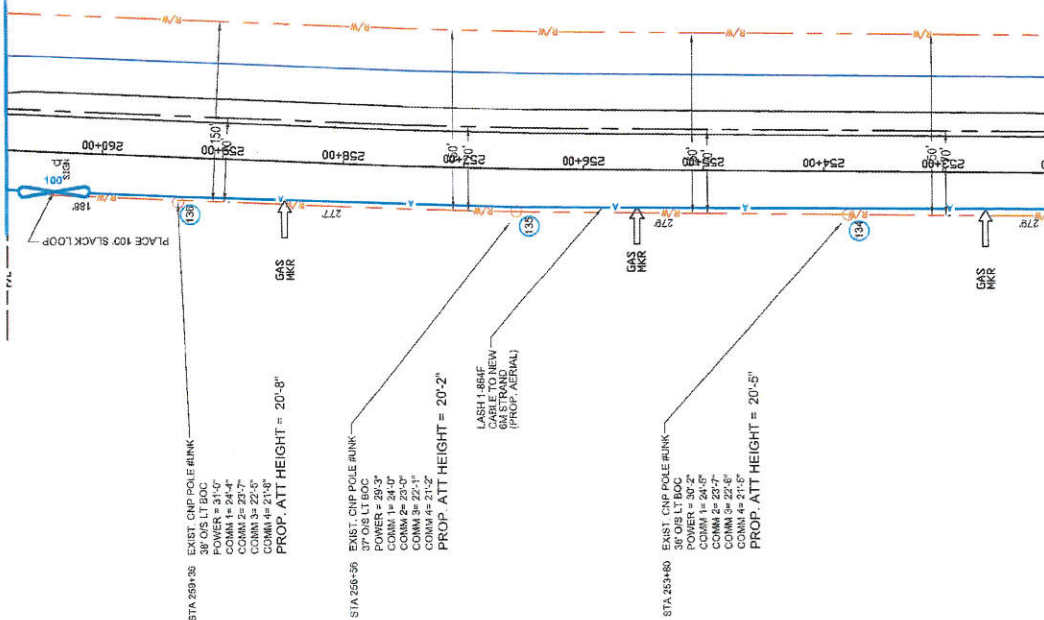
NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-842-8275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

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

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
beh@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

PRIVET PROPERTY
29.67555, -95.71443
RICHMOND, TX 77407



SEE SHEET 42 TO MATCH SURVEY STA. 253+47

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, 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 BIRING.

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**

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



OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
PCPN GAGE TO CINCED RANCH
CINCED RANCH SITE, TX 77406
OUTSIDE PLANT - PLAN

DATE: 11/28/2017

ENGINEER: GXT/JJ
DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
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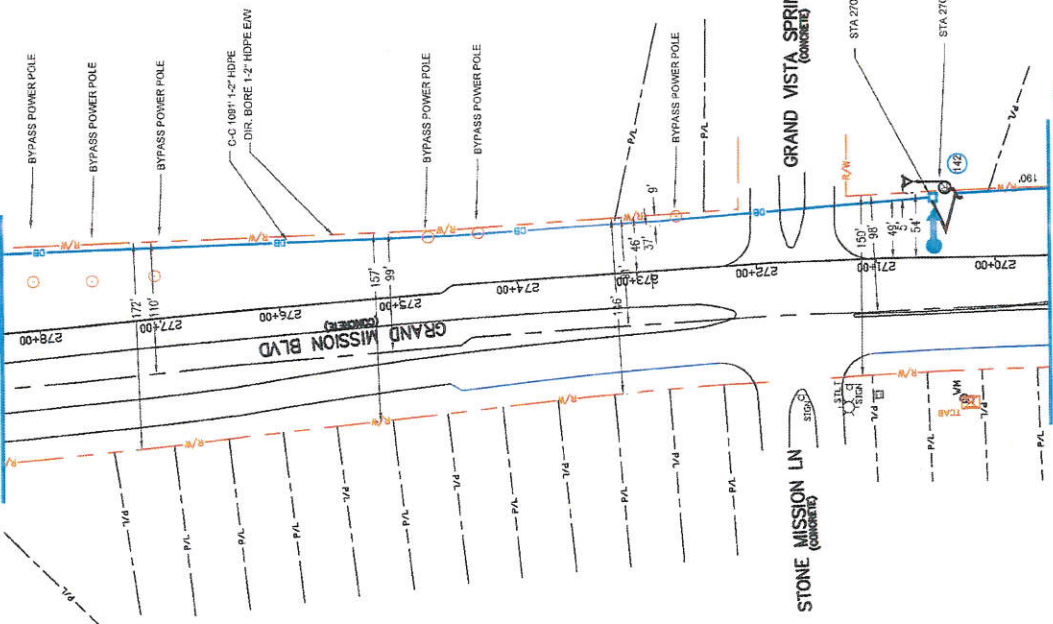
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COMMUNICATION SERVICES, INC. BOTH BEING
ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE
REPRODUCED, COPIED, OR USED FOR ANY PURPOSE
WITHOUT SPECIFIC WRITTEN PERMISSION.



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 HUGHMAN AT 813-888-4433 PRIOR TO START OF CONSTRUCTION.
- NOTE:**
CONTRACTOR TO MAINTAIN 6\"/>
- NOTE:**
PROP. 4\"/>

GRAND VISTA SPRINGS
19027 FARM 1484 RD
RICHMOND, TX 77407

SEE PROFILE
SHEET #46.1

SEE SHEET 44 TO MATCH SURVEY STA. 271+88

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

NOTE:
ALL UTILITIES MUST BE VERIFIED BY PORTULING A 18\"/>

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

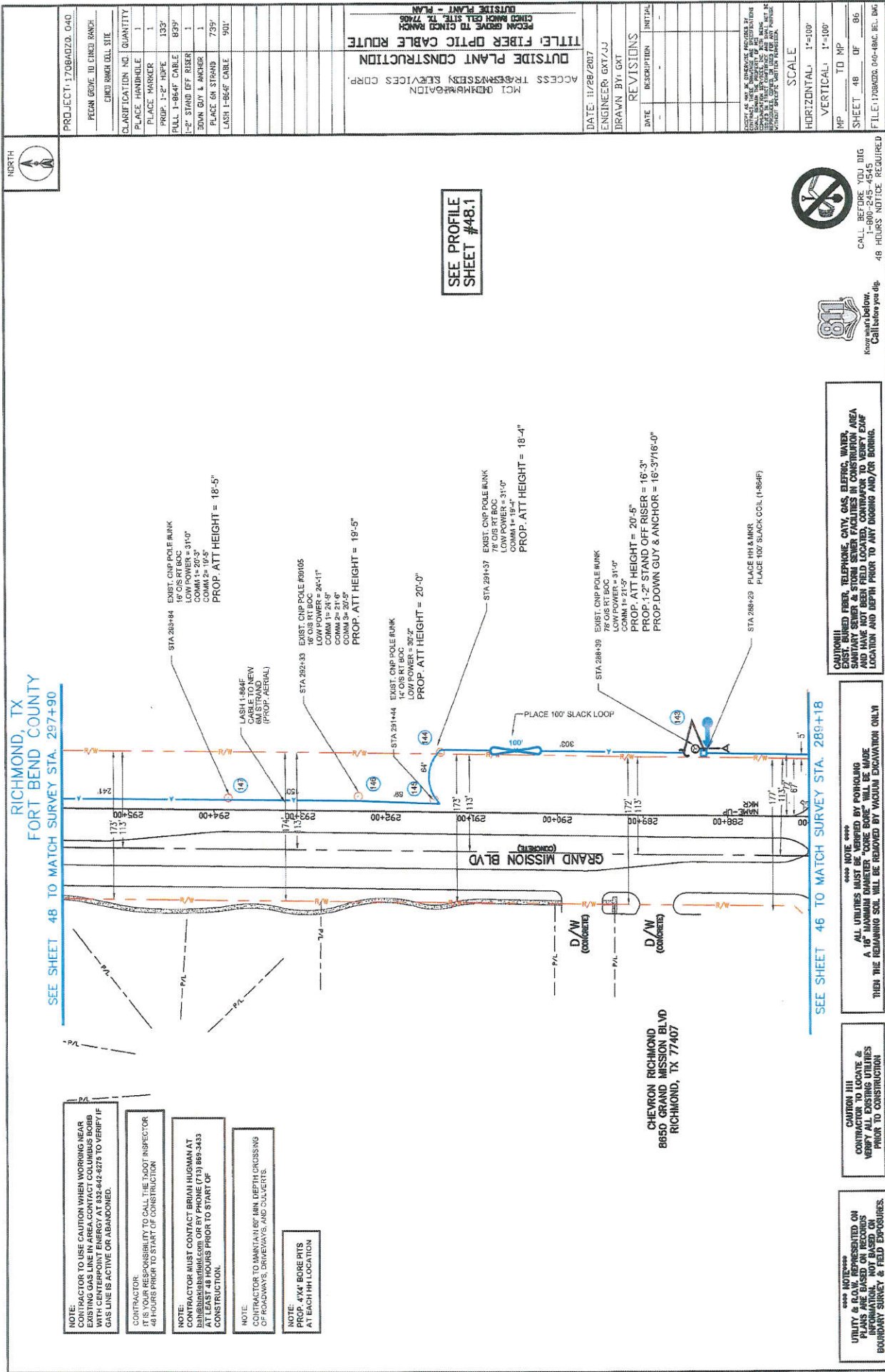
NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS BOUNDARY SURVEY & FIELD EXPOSURES.

PROJECT: 1708AD20.040	
PECAN GROVE TO CINDY RANCH CINDY RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE HAND-PILE	2
PLACE MARKER	2
PROP. 1-2\"/>	225'
PULL 1-864F CABLE	425'
1-2\"/>	2
DOWN GUY & ANCHOR	2
PLACE 6\"/>	651'
LASH 1-864F CABLE	651'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS: TARRANTS SERVICES CORP.	
DATE: 11/20/2017	
ENGINEER: GXT/JJ	
DRAWN BY: GXT	
REVISIONS	
DATE	DESCRIPTION
INITIAL	
SCALE	
HORIZONTAL: 1\"/>	
VERTICAL: 1\"/>	
MP	TD MP
SHEET 46	DF B6
FILE: 1708AD20.040-46-46C.B6.DWG	



CALL BEFORE YOU DIG
1-800-245-4345
48 HOURS NOTICE REQUIRED





PROJECT: 1708AD20.040	DATE: 11/28/2017
PECAN GROVE TO CINDY RANCH	ENGINEER: GXT/JJ
CINDY RANCH CELL SITE	DRAWN BY: GXT
CLASSIFICATION NO	REV
PLACE HANDHOLE	DESCRIPTION
PLACE MARKER	INITIAL
PROP. 1-2" HDPE	
PULL 1-864F CABLE	
1-2" STAND OFF RISER	
DOWN GUY & ANCHOR	
PLACE 6N STRAND	
LASH 1-864F CABLE	

OUTSIDE FIBER OPTIC CONSTRUCTION
ACCESS TRANSMISSION SERVICES CORP.
MCI COMMUNICATIONS
CINDY RANCH CELL SITE, 1708AD20.040
OUTSIDE PLANT - PLAN

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

SHEET 48 OF 86
MP TO MP
CALL BEFORE YOU DIG
1-800-485-4345
48 HOURS NOTICE REQUIRED

SEE PROFILE SHEET #48.1

CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CATH. 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.

CAUTION!!!
ALL UTILITIES MUST BE VERIFIED BY POHOLING A 16" MINIMUM DIAMETER "CORE BORE" WILL BE MADE THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY.

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA CONTACT COLUMBUS BOBB WITH CENTERPOINT ENERGY AT 832-642-5275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT 817-889-3433 PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 5' MIN. DEPTH CROSSING OF FRACWORKS, DRIVEWAYS AND ALLEYS.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

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UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

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UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

NOTE:
UTILITY & RAW REPRESENTED ON PLANS ARE BASED ON RECORDS SURVEY & FIELD EPC-COURSES.

PROJECT: 1709ADZQ. 040

CLIENT: BEND CO. SITE

CLARIFICATION NO. QUANTITY

PLACE 64 STRAND	958'
LASH 1-84F CABLE	1058'

DATE: 11/20/2017

ENGINEER: GXT/JJ

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

SCALE

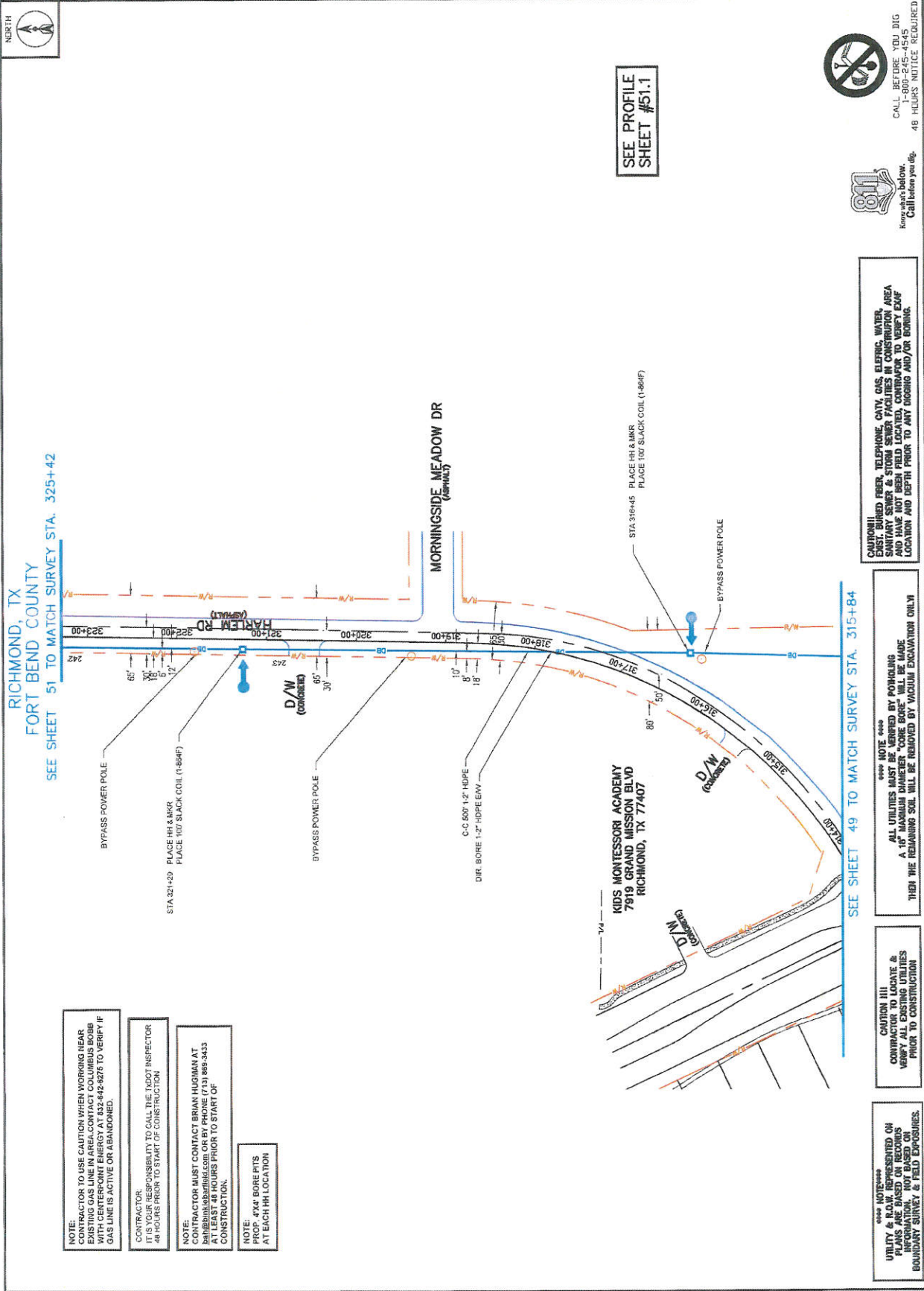
HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

HP TO MP

SHEET 51 OF 86

FILE: 1709ADZQ. 040-S1AC. RL. DWG



NOTE:

CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOMB 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 HUGHMAN AT 832-642-8275 OR BY PHONE (512) 883-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:

PROP. 4\"/>

CAUTION III

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE:

UTILITY & R.O.M. REPRESENTED ON PLANS ARE BASED ON RECORDS. CONTRACTOR TO VERIFY BOUNDARY SURVEY & FIELD EXPOSURES.

RICHMOND, TX
FORT BEND COUNTY

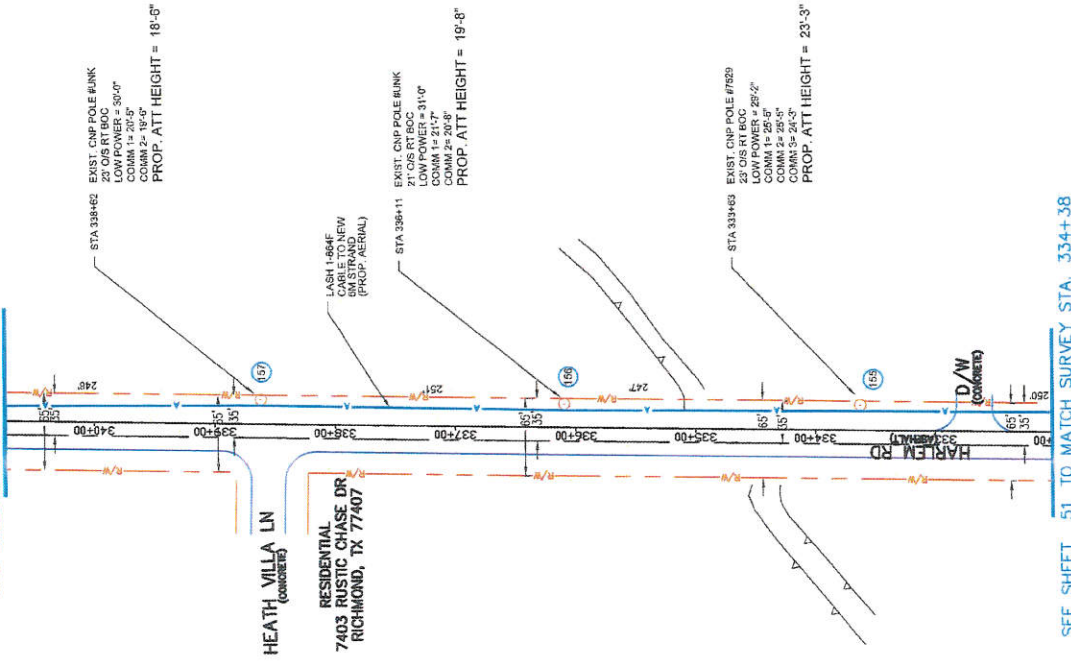
SEE SHEET 53 TO MATCH SURVEY STA. 343+10

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 832-642-4275 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 bah@binkiebarfield.com OR BY PHONE (713) 869-3433 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

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



SEE SHEET 51 TO MATCH SURVEY STA. 334+38

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

CAUTION III
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
FIELD SURVEY.

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



Know what's below.
Call before you dig.

8

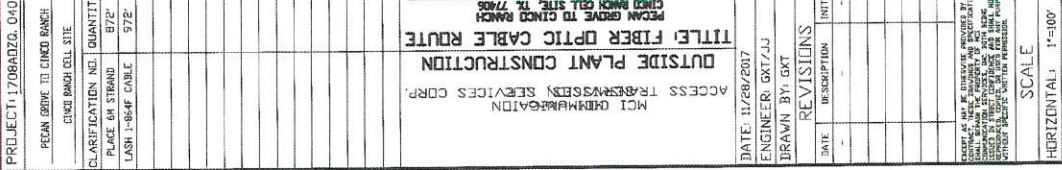
OUTSIDE PLANT - PLANT
CINCO RANCH DEL SITE TX 77005
PECAN GROVE TO CINCO RANCH
TITLE: FIBER OPTIC CABLE ROUTE
OUTSIDE PLANT CONSTRUCTION
ACCESS TRANSMISSION SERVICES CORP.
NCT COMMUNICATION

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

REVISIONS		
DATE	DESCRIPTION	INITIAL
-	-	-

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CLINTON RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE 6M STRAND	772'

[illegible]

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

FILE: 170BAC70, 040-55AC, BEL.

***** NOTE *****

UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
FIELD SURVEYING.

MP TO MP
SHEET 55 OF 8
FILE: 1706ACT0, 040-55AC.BEL

811

SHEET 55 OF 8
FILE: 1708AC70, 040-55AC. BEL.

[illegible]

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

***** 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!

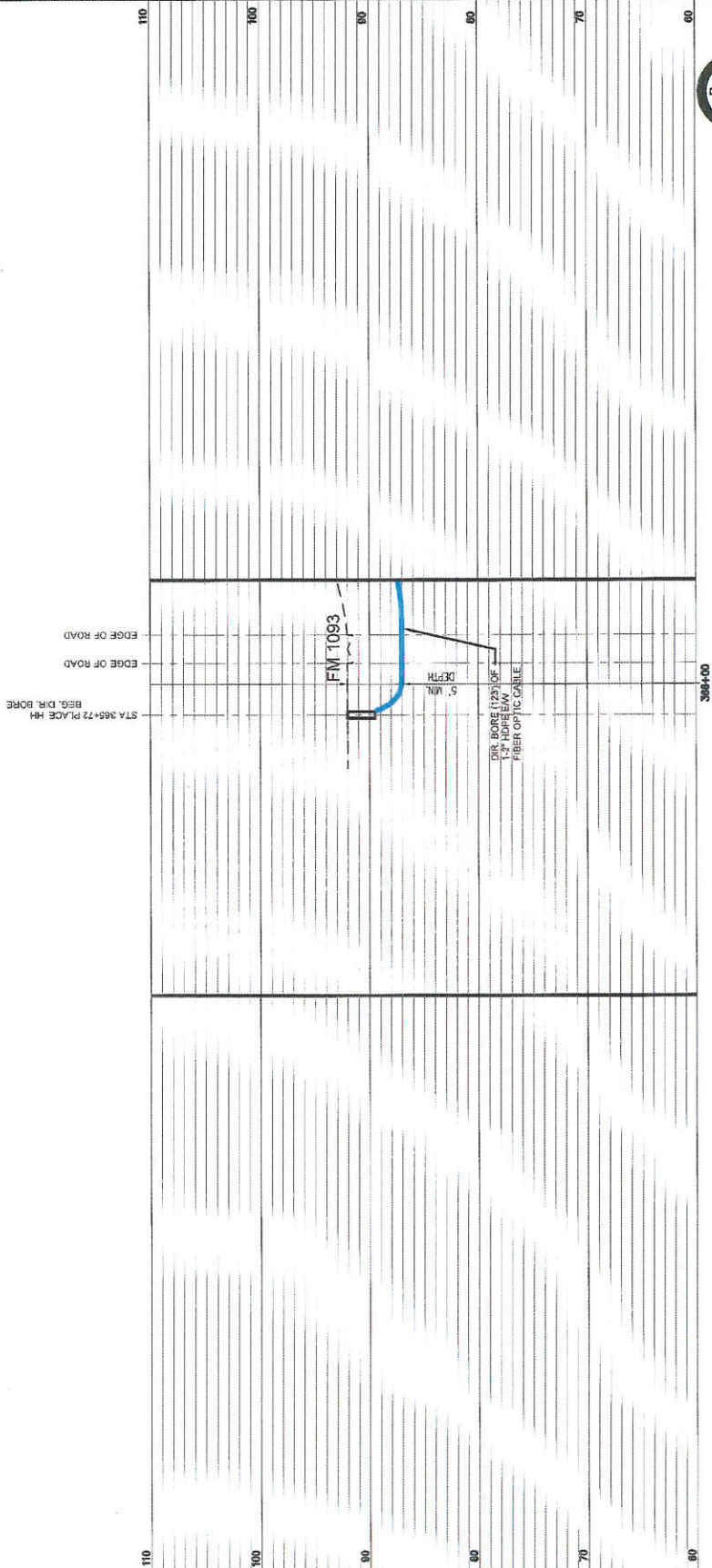
Know what's below.
Call before you dig.

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



PROFILE
CROSSING WESTPARK TOLL RD & FM 1093
LOOKING WEST

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



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
WHEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
EXIST. BURIED PIPES, 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.



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

SCALE

HORIZONTAL: 11'±100'
VERTICAL: 11'±100'

MP TO MP

SHEET 56.1 OF 86

FILE#17004120.D4393556.1 PAGE 388

TITLE: FIBER OPTIC CABLE ROUTE

DATE: 18/09/2017
ENGINEER: GXT/KM

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
11-11-11	11-11-11	11-11-11

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EXCEPT AS MAY BE OTHERWISE PROVIDED BY	
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SHOULD BE STRICTLY CONFIDENTIAL AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE

HORIZONTAL: 17°=100'

VERTICAL: 11'±100'

MP TO MP

133HS 1561 107 888

FILE 170841201 Q1890566.1 AC 383. 200

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 832-642-5275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

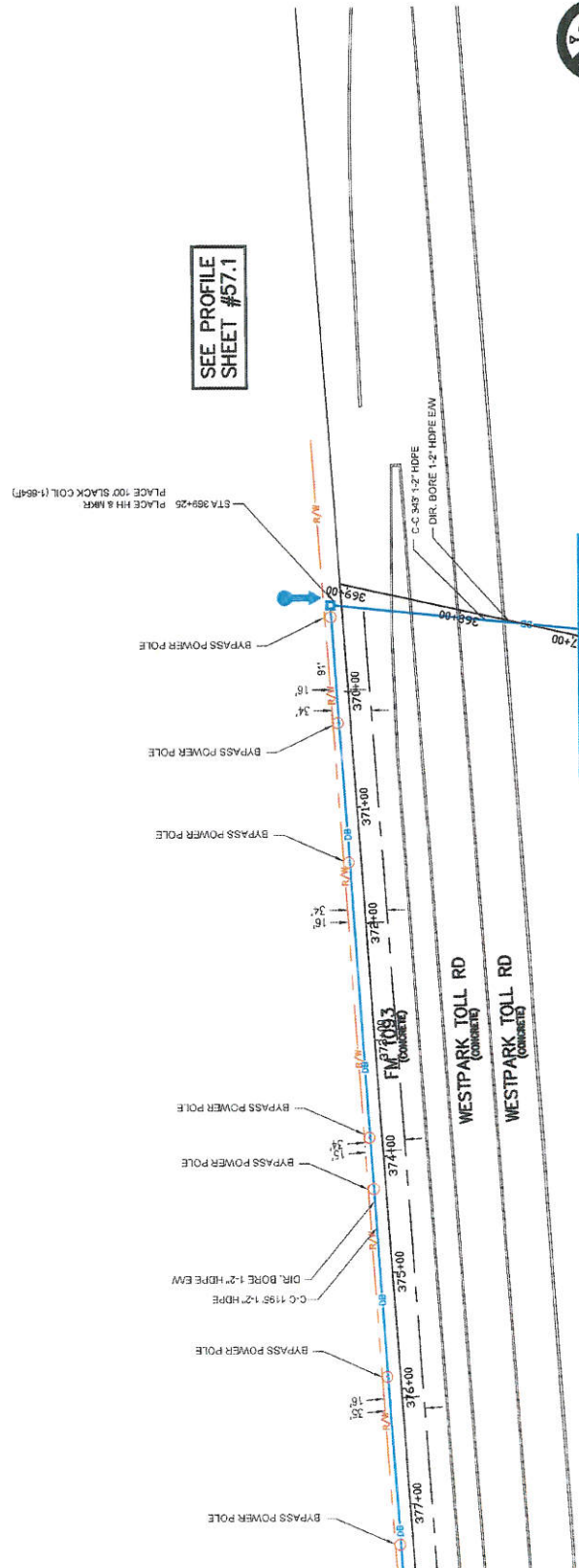
CONTRACTOR
IT IS YOUR RESPONSIBILITY TO CALL THE XDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
brianhugman@bentley.com OR BY PHONE (713) 868-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 6" MIN. DEPTH CROSSINGS
OF ROADWAYS, DRIVEWAYS AND ALLEYS.

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

THE GROUND UP
19102 FM 1093
RICHMOND, TX 77407



SEE PROFILE
SHEET #57.1

SEE SHEET 55 TO MATCH SURVEY STA. 369+31

UTILITY & C&G REPRESENTED ON
PLANS ARE 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\"/>

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SEWER & STORM SEWER LINES MAY BE PRESENT IN THE AREA
LOCATED AND DEPTH PRIOR TO ANY DRILLING AND/OR BORING.



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

PROJECT: 1708A072.040
PECAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE
CLARIFICATION NO. QUANTITY
PLACE HANDHOLE 1
PLACE MARKER 1
PROP. 1-2\"/>

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT
REVISIONS
DATE DESCRIPTION INITIAL
- - -

TITLE: FIBER OPTIC CABLE ROUTE
ACCESS TRANSMISSION SERVICES CORP.
MCI COMMUNICATIONS
CINCO GROVE TO CINCO RANCH
OUTSIDE PLANT - PLAN

SCALE
HORIZONTAL: 1\"/>

ROSENBERG, TX FORT BEND COUNTY

PROFILE CROSSING WESTPARK TOLL RD & FM 1093 LOOKING WEST

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

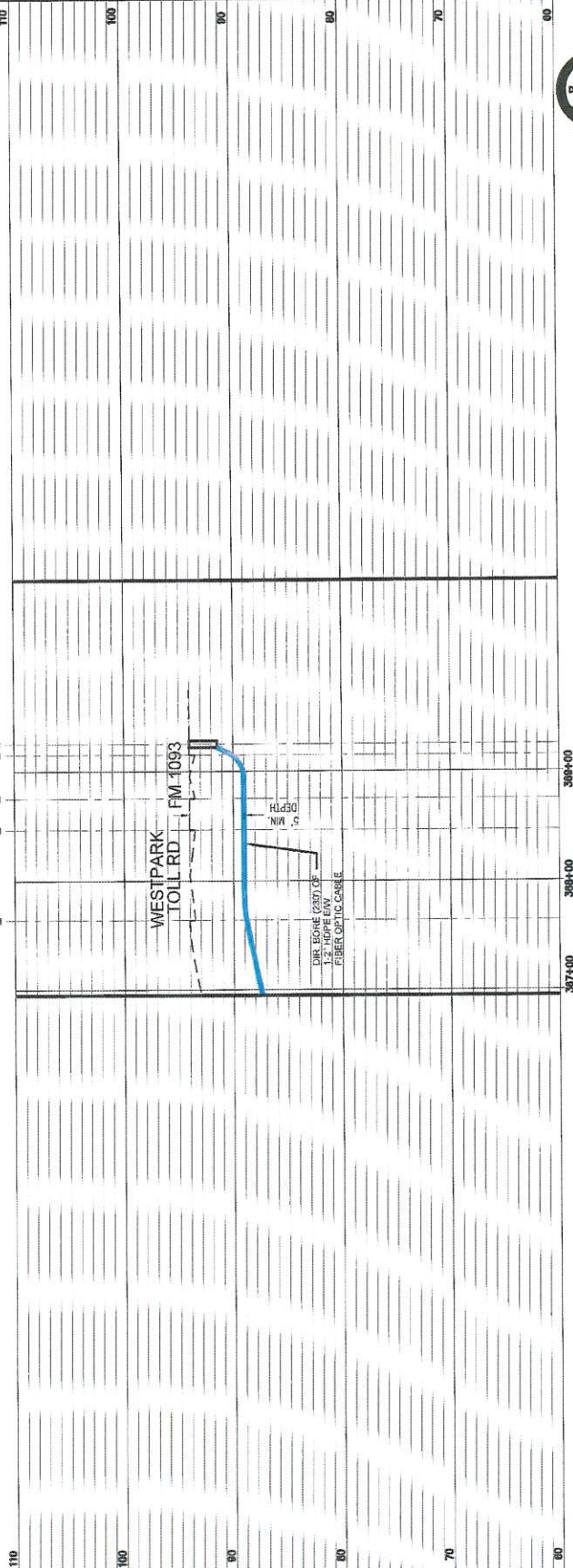


EDGE OF ROAD
STA 369+25 PLACE MH
END DIR BORE

WESTPARK
TOLL RD FM 1093

DIR BORE (337) OS
1.2" HOPE IAW
FIBER OPTIC CABLE

5' MIN.
DEPTH



CAUTION!!!
EXISTING FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SEWER, 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 10" DIAMETER BORE HOLE MUST 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 & LOCATION INFORMATION
HAS BEEN BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

MCI OILFIELD
ACCESS TRASHWASHING SERVICES CORP.
TITLE: FIBER OPTIC CABLE ROUTE
PROJECT: 1708AD73.099
PROJECT: 1708AD73.099

DATE: 10/20/2017
ENGINEER: GXT/NA
DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL

SCALE
HORIZONTAL: 1"=100'
VERTICAL: 1"=50'

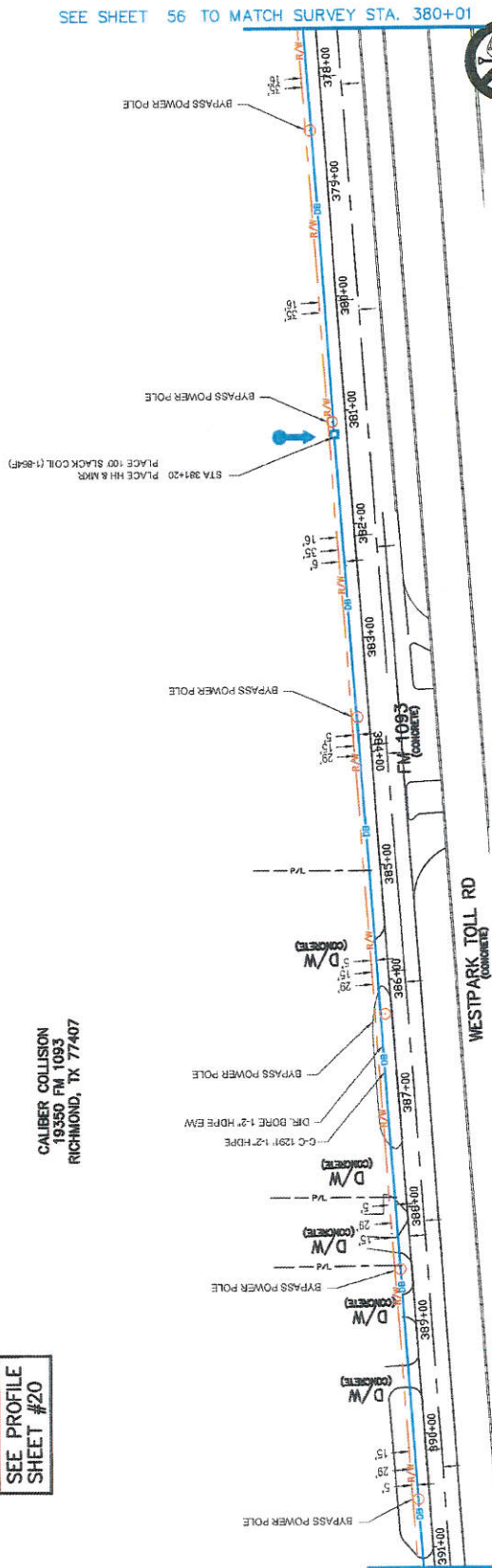
SHEET 571 OF 585
MP TO MP

FILE: 1708AD73.099-092-100-000-000

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

SEE PROFILE
SHEET #20

SEE SHEET 58 TO MATCH SURVEY STA. 393+54



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, 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
18 HOURS NOTICE REQUIRED

[illegible]

FILE: 1/GERALDO, DAU-GOPEL, BEL. DA

HEIGHT = 19.6m

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

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

Know what's below.
Call before you dig.

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
WHEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

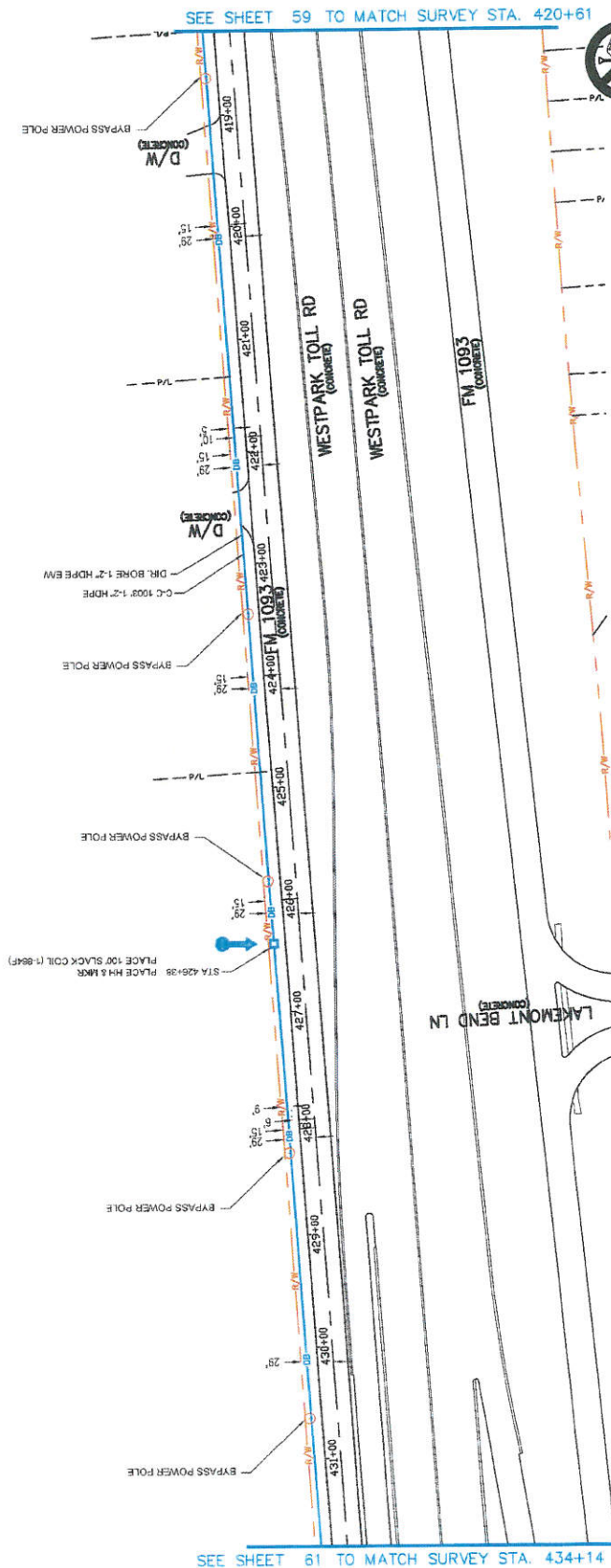
CAUTION IIII
CONTRACTOR TO LOCATE &
VERIFY ALL EXISTING UTILITIES
BEFORE CONSTRUCTION

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

SEE SHEET 61 TO MATCH SURVEY STA. 418+25

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

FORT BEND TAEKWONDO
19830 FM 1093
RICHMOND, TX 77407



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

SCALE	
HORIZONTAL:	1"=100'
VERTICAL:	1"=100'
MP	TO MP
SHEET 61	OF 86
FILE: 1708A078, 040-61AC, DEL. DWG	

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

[illegible]

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

OUTSIDE PLANT - PLAN
PCOM RANCH GET. SITE. TX. 77405
CINCO RANCH DRIVE
TITLE: FIBER OPTIC CABLE ROUTE
OUTSIDE PLANT CONSTRUCTION
ACCESS TRANSMISSION SERVICES CORP.
MCI TELECOMMUNICATIONS

PROJECT: 1708ADZQ. 040	PECAN GROVE TO CINCO RANCHO	CLASSIFICATION NO.	QUANTITY
	CINCO RANCHO CELL SITE		

KATY, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA CONTACT COLUMBUS BORR
FOR INFORMATION CALL 713-868-2427 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

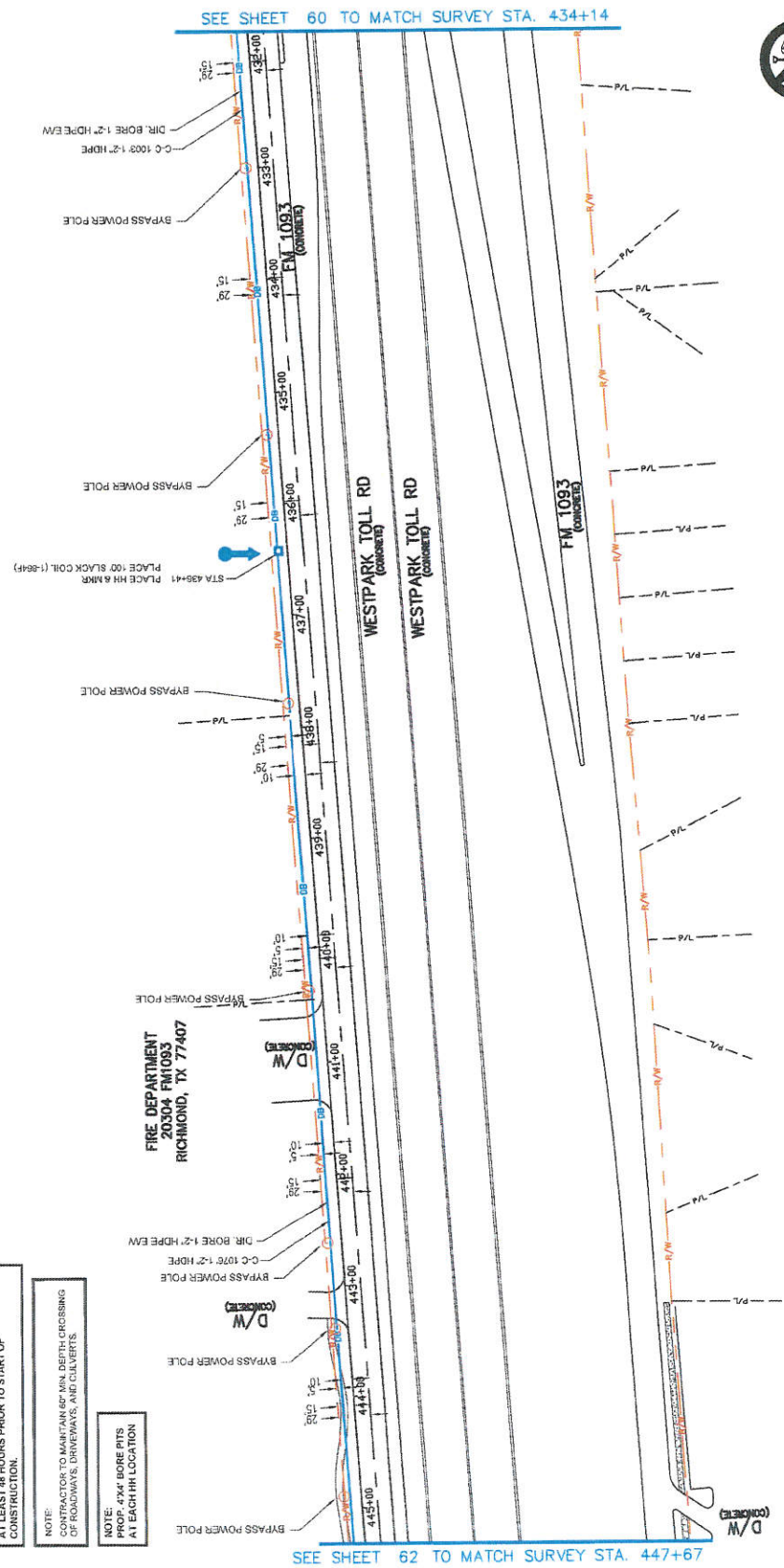
CONTRACTOR
IS RESPONSIBLE TO CALL THE FOOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGHMAN AT
DASHBARN@FCD.COM OR BY PHONE (713) 868-2433
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

FIRE DEPARTMENT
20304 FM1093
RICHMOND, TX 77407



SEE SHEET 62 TO MATCH SURVEY STA. 447+67

SEE SHEET 60 TO MATCH SURVEY STA. 434+14

PROJECT: 1708ADZ0, 040	
PECAN GROVE TO CINDO RANCH	
CINDO RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE MANHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	553'
PULL 1-864F CABLE	653'
1-2" STAND OFF RISER	1
STEIN OUT & ANCHOR	1
PLACE 6H STRAND	600'
LASH 1-864F CABLE	600'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRANSMISSION SERVICES CORP.	
MCI COMMUNICATIONS	
DATE: 11/28/2017	
ENGINEER: GAT/JJ	
DRAWN BY: GAT	
REVISIONS	
DATE	DESCRIPTION
INITIAL	
SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
MP	TO MP
SHEET 60	DF 66
PROJECT: 1708ADZ0, 040-60A, 3L, 60G	



CALL BEFORE YOU DIG
1-800-243-4545
48 HOURS NOTICE REQUIRED

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, GAS, ELECTRIC, WATER,
AND OTHER UTILITIES MAY BE PRESENT IN THE EXCAVATION AREA.
ALL UTILITIES MUST BE FIELD LOCATED BY CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE
ALL UTILITIES MUST BE VERIFIED BY PORING
A 10" 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 & RAIL REPRESENTED ON
THIS PLAN ARE BASED ON
RECENT SURVEY. NOT BASED ON
BOUNDARY SURVEY & FIELD DISPOSURES.

KATY, TX
FORT BEND COUNTY



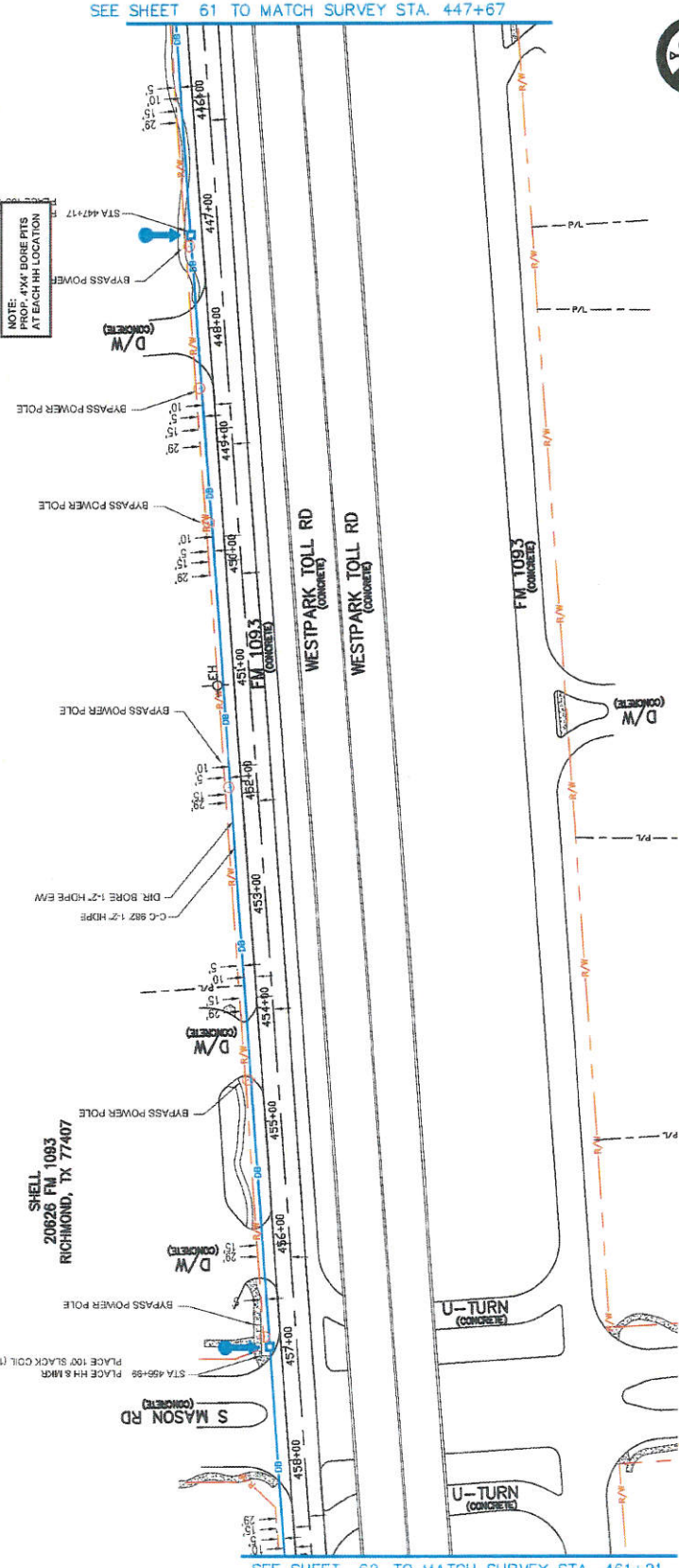
PROJECT: 1708A020.040.	
PEAN DRIVE TO CIMO RANCH	
CIMO RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE MARKER	2
PREP. 1-2" HBPE	1354'
PULL 1-864F CABLE	1554'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRANSMISSION SERVICES CORP.	
MCI COMMUNICATIONS	
PEAN DRIVE TO CIMO RANCH	
OUTSIDE PLANT - PLAN	
DATE: 11/28/2017	
ENGINEER: GYJ/JJ	
DRAWN BY: GYJ	
REVISIONS	
DATE	DESCRIPTION
INITIAL	
SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
MP	TO MP
SHEET 63	OF 66
FILE: 1708A020.040-545-REL.DWG	

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB 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 HUGHMAN AT 832-442-4275 PRIOR TO START OF CONSTRUCTION.

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



SEE PROFILE
SHEET #20

SEE SHEET 61 TO MATCH SURVEY STA. 447+67

SEE SHEET 62 TO MATCH SURVEY STA. 461+21

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER, AND OTHER UTILITIES MAY BE PRESENT IN THE EXCAVATION 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 POtholing PRIOR TO CONSTRUCTION. A 30\"/>

CAUTION !!!
CONTRACTOR TO LOCATE & MARK ALL UTILITIES PRIOR TO CONSTRUCTION.

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



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

MARQUIS CINCO RANCH
20900 FM 1093
RICHMOND, TX 77407



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

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



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

PROJECT: 1709040720_040		CINQ RANCH DIST. SITE																			
FEED: GROUND TO CINQ RANCH																					
CLARIFICATION NO.	QUANTITY																				
PLACE HANDS	1																				
PRIP. 1'-2" HDPE	1041'																				
PULL 1'-864F CABLE	1141'																				
1'-2" STAND OFF RISER	1																				
DOWN GUT & ANCHOR	312'																				
PLACE ON STAND	312'																				
LASH 1'-864F CABLE																					
DATE: 11/26/2017 ENGINEER: GXT/J DRAWN BY: GXT REVISIONS <table><tr><th>DATE</th><th>DESCRIPTION</th><th>INITIAL</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>				DATE	DESCRIPTION	INITIAL															
DATE	DESCRIPTION	INITIAL																			
SCALE HORIZONTAL: 1"=100' VERTICAL: 1"=100' MP 64 DP 86 SHEET 64 OF 86																					

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP _____ TO MP _____

SHEET 65 OF 86

FILE: I709A070.040-65AC.BEL.DWG



UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION. NOT BASED ON

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

SEE PROFILE
SHEET #20

SEE SHEET 64 TO MATCH SURVEY STA. 487+27.2

WESTPARK TOLL RD (CONCRETE)

WESTPARK TOLL RD (CONCRETE)

FM 1093 (CONCRETE)

BLVD

STATIONING: 487+00, 488+00, 489+00, 490+00, 491+00, 492+00, 493+00, 494+00, 495+00, 496+00, 497+00, 498+00, 499+00

BYPASS POWER POLE

D/W (CONCRETE)

STA 498+65

STA 499+55

EXIST 11' O/S LOW F COM COIN COMM PRO PRO PLAC STA 498+65

SEE SHEET 66 TO MATCH SURVEY STA.

SEE SHEET 66 TO MATCH SURVEY STA. 501+80

[illegible]

SCALE	
HORIZONTAL	1"=100'
VERTICAL	1"=100'
MP	TO MP
SHEET 66	OF 86
FILE:1708A572.040-66AC.BCL.BNG	

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

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



KATY, TX
FORT BEND COUNTY

PROJECT: 1708ALZ02 040

PECAN GROVE TO CINCINNATI
CINCINNATI CELL SITE

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	465'
PROP. 1-2" HDPE	565'
PULL 1-664F CABLE	565'
1-2" STAND OFF RISER	1
DIRT GUY & ANCHOR	888'
PLACE 66 STANCH	888'
LASH 1-664F CABLE	988'

ACCESS TRANSMISSION SERVICES CORP.
MCI-Netco
TITLE: FIBER OPTIC CABLE ROUTE
CINCINNATI CELL SITE TO CINCINNATI
PECAN GROVE TO CINCINNATI
CINCINNATI CELL SITE TO CINCINNATI

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

REVISIONS

DATE	DESCRIPTION	UNIT

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

SHEET 67 OF 67

MP TO MP

FILE: 1708ALZ02 040-67ALZ

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



CAUTION: EXISTING FIBER, TELEPHONE, CABLE, GAS, AND WATER LINES MAY BE PRESENT IN THE CONSTRUCTION AREA. EXISTING SANITARY SEWER & STORM SEWER LINES MAY BE PRESENT. VERIFY EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO ANY DIGGING AND/OR BORING.

NOTE: ALL UTILITIES MUST BE VERIFIED BY POtholing A 10" MAXIMUM DIAMETER "CORE BORE" HOLE. 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.B. REPRESENTED ON PLANS ARE BASED ON RECORD DRAWINGS. CONTRACTOR TO VERIFY ON BOUNDARY SURVEY & FIELD EXPOSURES.

PROP. ATT HEIGHT = 21'-6"

COM 1 = 24'-6"

COM 2 = 24'-6"

COM 3 = 23'-7"

COM 4 = 22'-6"

EXIST. CNP POLE #UKN

STA 501+07

EXIST. CNP POLE #UKN

STA 502+61

LOW POWER = 30'-0"

COM 1 = 24'-6"

COM 2 = 23'-6"

COM 3 = 22'-11"

COM 4 = 21'-10"

PROP. ATT HEIGHT = 20'-10"

EXIST. CNP POLE #UKN

STA 503+00

EXIST. CNP POLE #UKN

STA 504+00

EXIST. CNP POLE #UKN

STA 505+11

LOW POWER = 30'-0"

COM 1 = 24'-6"

COM 2 = 23'-6"

COM 3 = 22'-4"

COM 4 = 21'-4"

PROP. ATT HEIGHT = 20'-4"

EXIST. CNP POLE #UKN

STA 506+35

EXIST. CNP POLE #UKN

STA 507+35

LOW POWER = 30'-0"

COM 1 = 23'-6"

COM 2 = 21'-2"

COM 3 = 20'-2"

PROP. ATT HEIGHT = 21'-0"

EXIST. CNP POLE #UKN

STA 508+33

EXIST. CNP POLE #UKN

STA 509+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

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PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK LOOP

CABLE TO NEW

(PROP. AERIAL)

LASH 1-664F

864 STRAND

STA 501+07

EXIST. CNP POLE #UKN

STA 502+61

EXIST. CNP POLE #UKN

STA 503+00

EXIST. CNP POLE #UKN

STA 504+00

EXIST. CNP POLE #UKN

STA 505+11

EXIST. CNP POLE #UKN

STA 506+35

EXIST. CNP POLE #UKN

STA 507+35

EXIST. CNP POLE #UKN

STA 508+33

EXIST. CNP POLE #UKN

STA 509+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

STA 508+44

PLACE 100' SLACK COIL (1-664F)

SEE SHEET 66 TO MATCH SURVEY STA. 499+45

SEE SHEET 68 TO MATCH SURVEY STA. 512+98

SEE PROFILE SHEET #67.1

NOTE: CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBE WITH CENTERPOINT ENERGY AT 832-442-8275 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.

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

NOTE: CONTRACTOR MUST CONTACT BRIAN HUGHAN AT brian@brianhughan.com OR BY PHONE (713) 685-3433 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 100' LOCATION

SEE PROFILE SHEET #67.1

SEE PROFILE SHEET #67.1

SEE PROFILE SHEET #67.1

SEE PROFILE SHEET #67.1

SEE PROFILE SHEET #67.1

SEE PROFILE SHEET #67.1

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SEE PROFILE SHEET #67.1

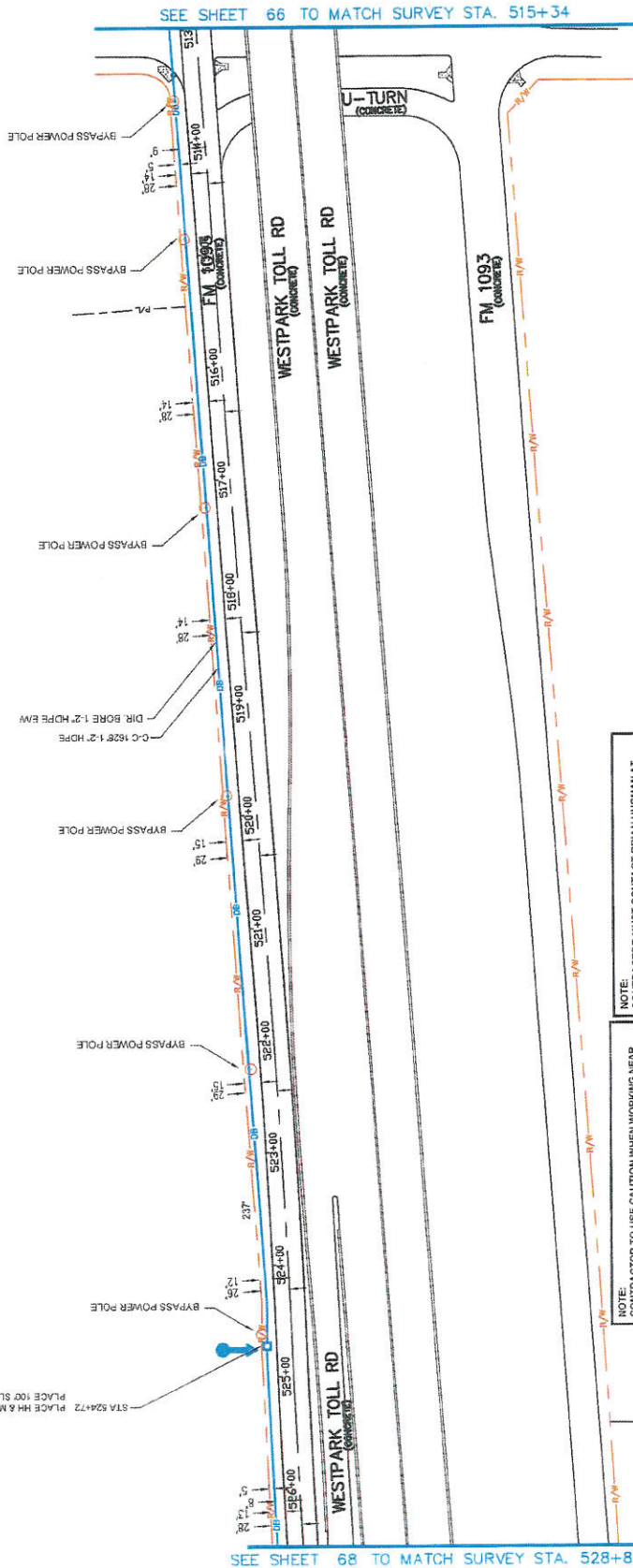
SEE PROFILE SHEET #67.1

KATY, TX
FORT BEND COUNTY

GRAND RIDGE CROSSING
22015 OAK MIST LN
KATY, TX 77494

SEE PROFILE
SHEET #20

STA 524+72 PLACE HH & MKR
PLACE 100' SLACK COIL (1-904F)



SEE SHEET 68 TO MATCH SURVEY STA. 528+87

SEE SHEET 66 TO MATCH SURVEY STA. 515+34



PROJECT: 1706AQ20.040	
PEAN GROVE TO CINDO RANCH	
CINDO RANCH TELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE HAND-DRILL	2
PLACE MARKER	2
PREP 1-2" HDPE	477'
PULL 1-864F CABLE	677'
1-2" STRIP OFF RISER	2
DOWN GUY & ANCHOR	2
PLACE 6N STRAND	976'
LASH 1-864F CABLE	1076'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRAILERS/SEEDS SERVICES CORP.	
MCI ODM/MAINTENANCE	
DATE: 11/28/2017	
ENGINEER: GKT/JJ	
DRAWN BY: GKT	
REVISIONS	
DATE	DESCRIPTION
INITIAL	
SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
MP	TO MP
SHEET 68	OF 86
FILE: 1706AQ20.040-68AC.EL.IMG	



CALL BEFORE YOU DIG
1-800-4-A-DIG
48 HOURS NOTICE REQUIRED

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

NOTE: CONTRACTOR MUST CONTACT BRIAN HUGHMAN AT
brianhughman@hughman.com OR BY PHONE (713) 865-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

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

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

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

CAUTION!!!
CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION.

NOTE:
UTILITY & RAW 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 BOMB
WITH CENTERPOINT ENERGY AT 832-442-8275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

SEE PROFILE
SHEET #20

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

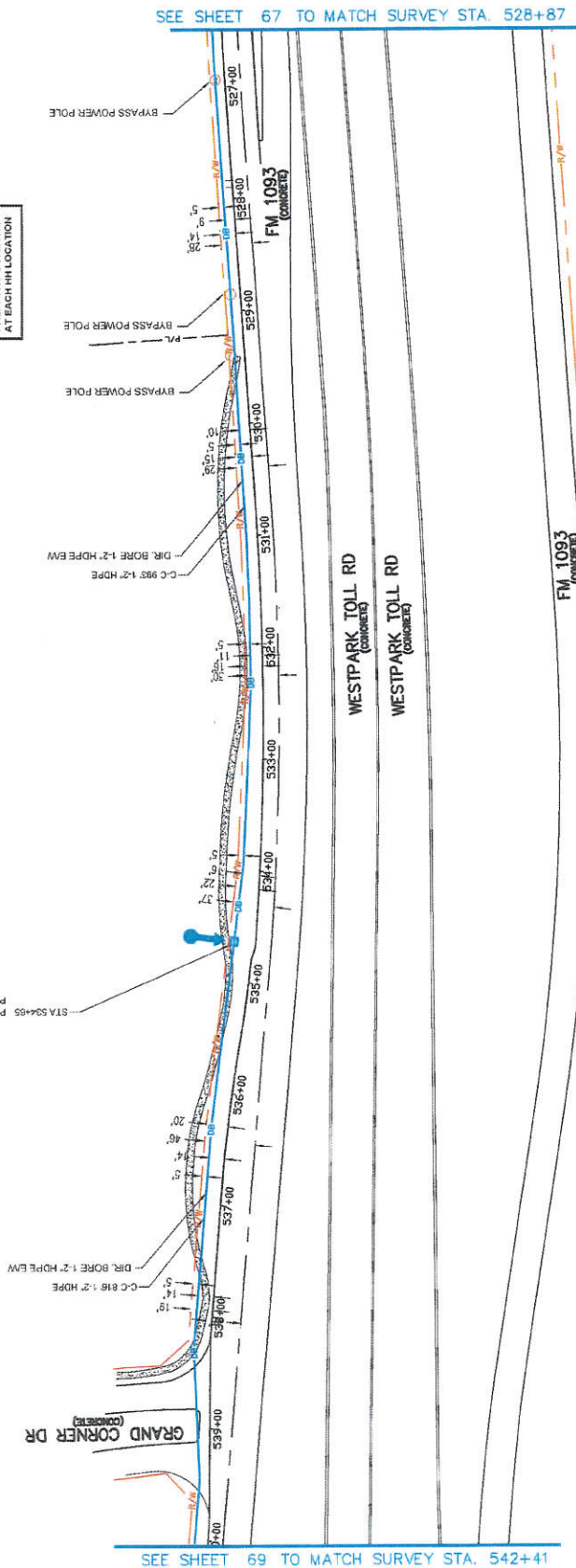
NOTE:
CONTRACTOR MUST CONTACT BRAN HUGHAN AT
832-442-8275 TO VERIFY LOCATION OF GAS LINE
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

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

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

GRAND RESERVE
22101 GRAND CORNER DR
KATY, TX 77494

STA 534+05 PLACE HH & MGR
PLACE 100' SLACK COIL (1-8645)



SEE SHEET 69 TO MATCH SURVEY STA. 542+41

SEE SHEET 67 TO MATCH SURVEY STA. 528+87

ACCESS TRANSMISSION SERVICES CORP.
MCI COMMUNICATIONS
TITLE: FIBER OPTIC CABLE ROUTE
CINCO GROVE TO CINCO RANCH
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 69 OF 86

FILE: 1706A020.040-59AC DEL DEL



CALL BEFORE YOU DIG
CALL 811 OR 1-800-4-A-SH-45
48 HOURS NOTICE REQUIRED

CAUTION!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXIST.
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.A.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
SURVEY & FIELD EXPOSURES.

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

SEE PROFILE
SHEET #20



SEE SHEET 70 TO MATCH SURVEY STA. 555+94

MP _____ TO MP _____
SHEET 70 OF 86
FILE: 1708ADZQ.040-70AC.HEL.BNG

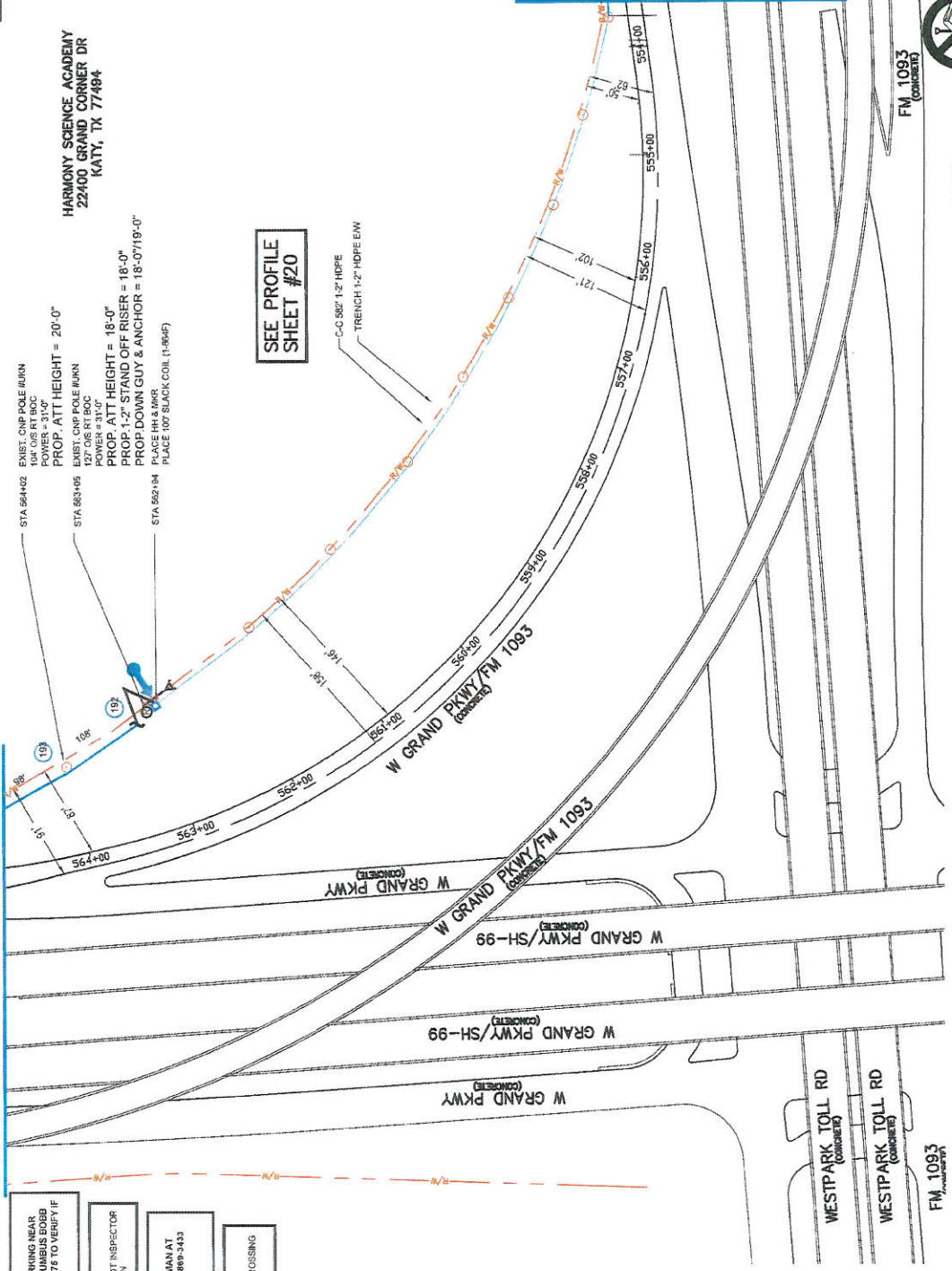
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
ON-GOING SURVEY. SEE D. EYENBERG

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

SEE PROFILE
SHEET #20

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

SEE SHEET 69 TO MATCH SURVEY STA. 555+94



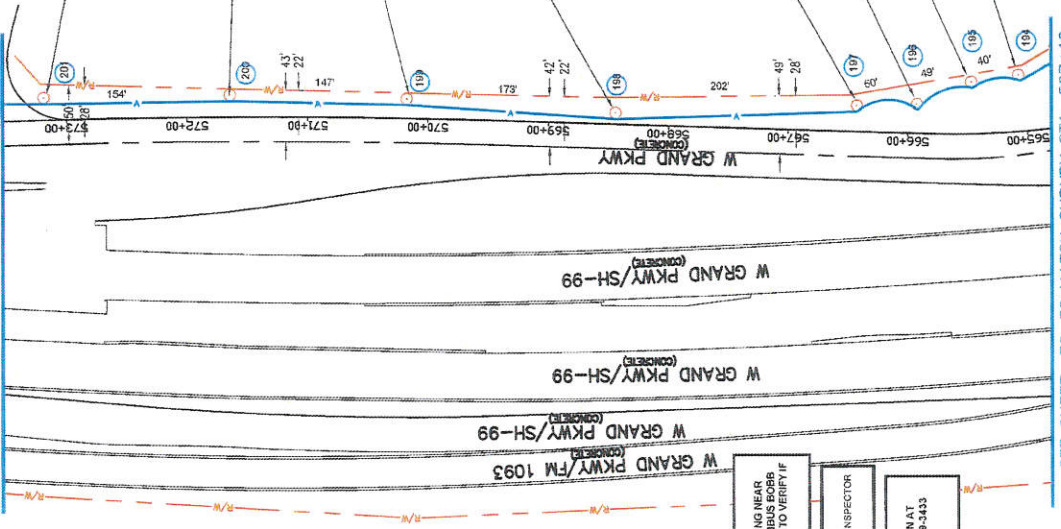
CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXAF
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

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

[illegible]

KATY, TX
FORT BEND COUNTY

SEE SHEET 72 TO MATCH SURVEY STA. 575+89



PROJECT: 1706ADZ0.040		
PECAN GROVE TO CINDO RANCH		
CINDO RANCH CELL SITE		
CLARIFICATION NO.	QUANTITY	
PLACE 64 STRAND	873'	
LASH 1-64F CABLE	873'	
CINDO RANCH CELL SITE		
TITLE: FIBER OPTIC CABLE ROUTE		
ACCESS TRANSMISSION SERVICES CORP.		
MCI COMMUNICATIONS		
OUTSIDE PLANT CONSTRUCTION		
PECAN GROVE TO CINDO RANCH		
CINDO RANCH CELL SITE, TX, 77406		
OUTSIDE PLANT - PLAN		
DATE: 11/28/2017		
ENGINEER: GKI/JJ		
DRAWN BY: GKI		
REVISIONS		
DATE	DESCRIPTION	INITIAL
SCALE		
HORIZONTAL: 1"=100'		
VERTICAL: 1"=100'		
MP	TO	MP
SHEET 72	OF	86
FILE: 1706ADZ0.040-72AC.BEL.396		



CALL BEFORE YOU DIG
1-800-4-A-SHIELD
48 HOURS NOTICE REQUIRED



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

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

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

UTILITY & R.A.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
BOUNDARY SURVEY & FIELD EXPOSURES.

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING UTILITIES. VERIFY LOCATION & DEPTH
WITH CENTERPOINT ENERGY AT 832-443-8275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

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

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGHMAN AT
brian@brianhughman.com OR BY PHONE (713) 868-2433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

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

SEE SHEET 73 TO MATCH SURVEY STA. 584+68



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

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

CAUTION!! TELEPHONE, CATV, GAS, ELECTRIC, WATER, 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

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BOBB
WITH CENTERPOINT ENERGY AT 632-642-6275 TO VERIFY
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@binklabarfield.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

TITLE: FIBER OPTIC CABLE ROUTE
OUTSIDE PLANT CONSTRUCTION
ACCESS THROUGH SERVICES CORP.
MCI COMMUNICATIONS

PECAN GROVE TO CHINO RANCH
CHINO RANCH CELL SITE, TX, 77068
OUTSIDE PLANT - PLAIN

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

[illegible]

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS ARE SPECIFICATIONS TO OBTAIN THE PROPERTY OF THE CONSTRUCTION SERVICES, INC. WITH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSES WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

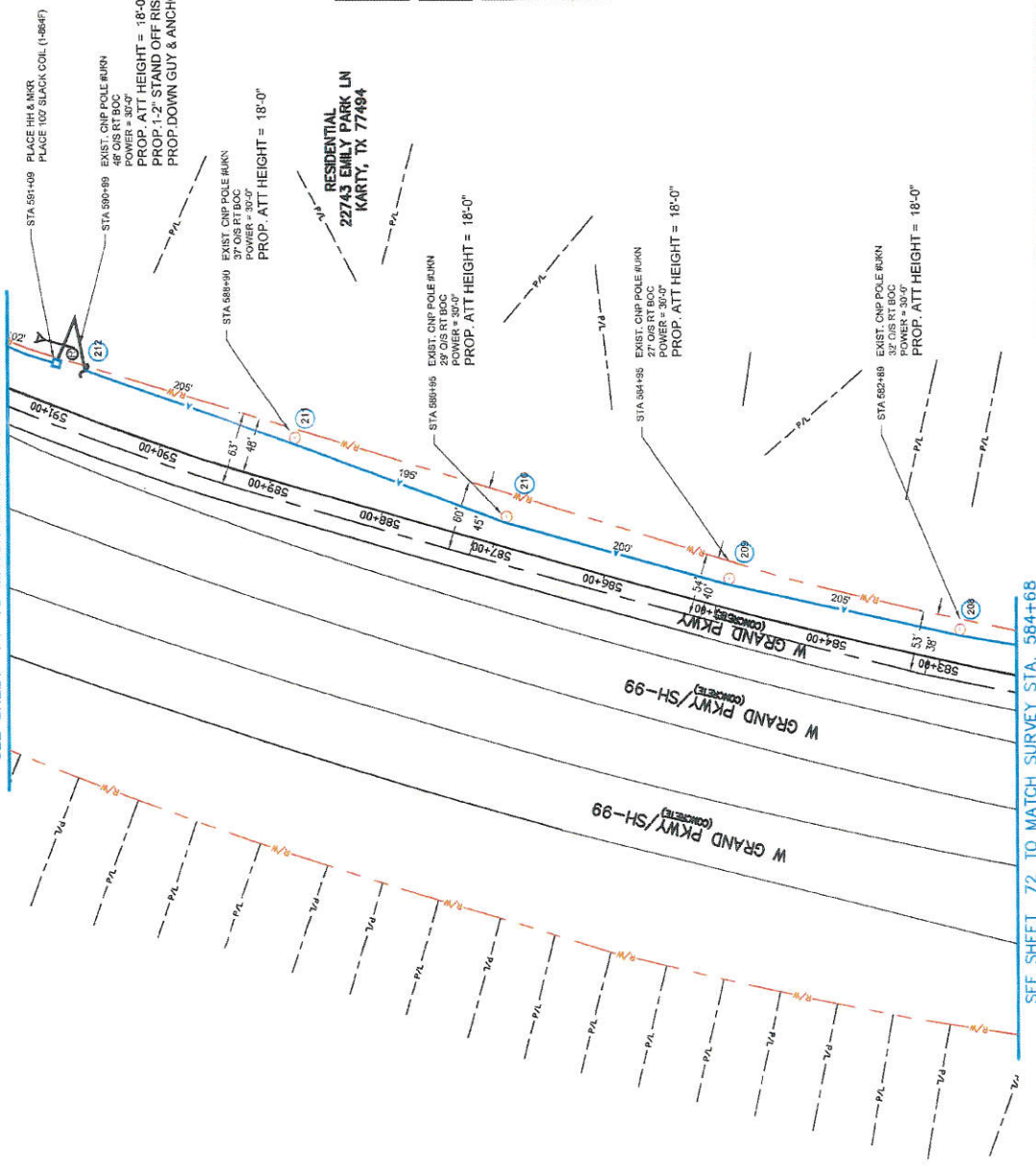
HORIZONTAL:	1"=100'
VERTICAL:	1"=100'

MP TO MP

SHEET 73 OF 86



KATY, TX
FORT BEND COUNTY
SEE SHEET 74 TO MATCH SURVEY STA. 593+77



SEE PROFILE
SHEET #20

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA CONTACT COLUMBUS BORG
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 HUGHMAN AT
brianhughman@field.com OR BY PHONE (713) 895-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

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



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



CAUTION!
UNDERGROUND UTILITY, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SEWER, 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 FIELD LOCATED BY CONTRACTOR
A 10' TOLERANCE SHALL BE MAINTAINED FOR ALL UTILITIES
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
CONTRACTOR TO LOCATE &
MARK ALL UTILITIES PRIOR TO CONSTRUCTION

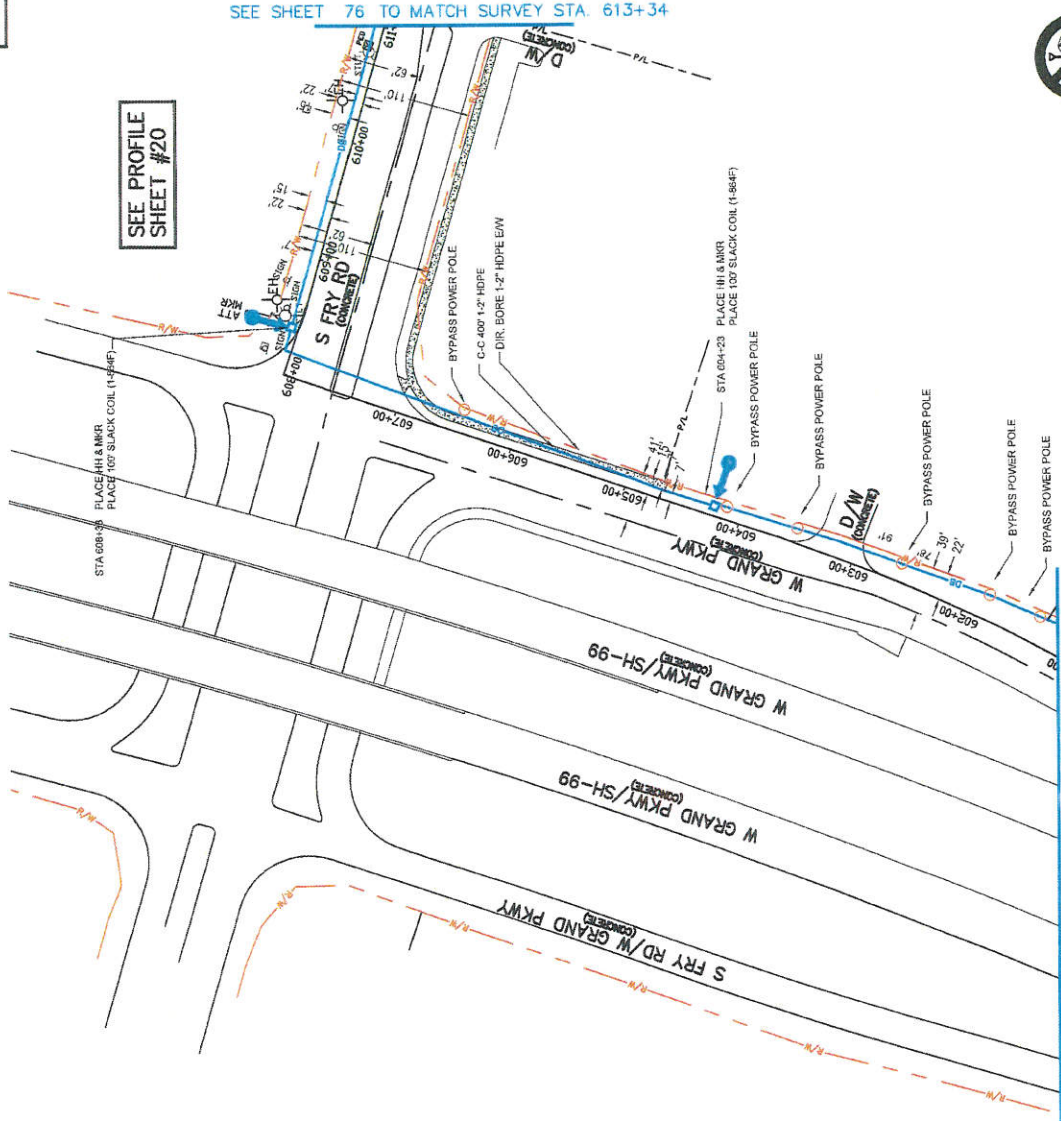
NOTE:
UTILITY & ROW REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

PROJECT: 1708A020, 040	
PECAN GROVE TO CINDO RANCH	
CLASSIFICATION NO.	QUANTITY
PLACE 48 STRAND	500'
LASH 1-864F CABLE	500'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRANSMISSION ELEVATIONS CORP.	
DATE: 11/20/2017	
ENGINEER: GAT/JJ	
DRAWN BY: GAT	
REVISIONS	
DATE	DESCRIPTION
INITIAL	
SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
MP	TO MP
SHEET 74	OF 86
FILE: 1708A020-040-REL.DWG	

KATY, TX
FORT BEND COUNTY



- NOTE:**
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BORB WITH CENTERPOINT ENERGY AT 832-442-8278 TO VERIFY IF GAS LINE IS ACTIVE OR ABANDONED.
- CONTRACTOR:**
IT IS YOUR RESPONSIBILITY TO CALL THE 7200T INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION.
- NOTE:**
CONTRACTOR MUST CONTACT BRIAN HUGHMAN AT 832-442-8278 OR 832-442-8279 PRIOR TO START OF CONSTRUCTION.
- NOTE:**
CONTRACTOR TO MAINTAIN 8' MIN. DEPTH CROSSING OF ROADWAYS, DRIVEWAYS, AND CULVERTS.
- NOTE:**
PROP. 4" DIA. BORE PITS AT EACH HH LOCATION



SEE PROFILE
SHEET #20

SEE SHEET 76 TO MATCH SURVEY STA. 613+34

SEE SHEET 74 TO MATCH SURVEY STA. 603+46

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

NOTE:
UTILITY & R.A.W. REPRESENTED ON PLANS ARE BASED ON RECORDS BOUNDARY SURVEY & FIELD EXPOSURES.

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

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 EXIST. LOCATION AND DEPTH PRIOR TO ANY TRENCHING AND/OR BORING.



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

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

SHEET 76 OF 86
PROJECT 1708AD20.040
FILE 1708AD20.040-76AC.BEL.DWG

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT
REVISIONS
DATE DESCRIPTION INITIAL

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 1-2" HOPE	684'
PULL 1-864' CABLE	884'
1-2" STAND OFF RISER	1
DOWN GUY & ANCHOR	1
PLACE 60' STRAIN	304'
LASH 1-864' CABLE	304'

PROJECT 1708AD20.040
PLAN (GIVE TO CINDY RANCH)
CINDY RANCH CELL SITE
TITLE: OUTSIDE PLANT CONSTRUCTION
ACCESS TRAILER/REPAIR SERVICES CORP.
OUTSIDE PLANT - PLAN
PECAN GROVE TO CINDY RANCH
CINDY RANCH DEL. SITE, TX 77405

KATY, TX
FORT BEND COUNTY



NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA. CONTACT COLUMBUS BORD
FOR INFORMATION. CALL 48 HOURS PRIOR TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR
TO MAINTAIN RESPONSIBILITY TO CALL THE T-800 INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION.

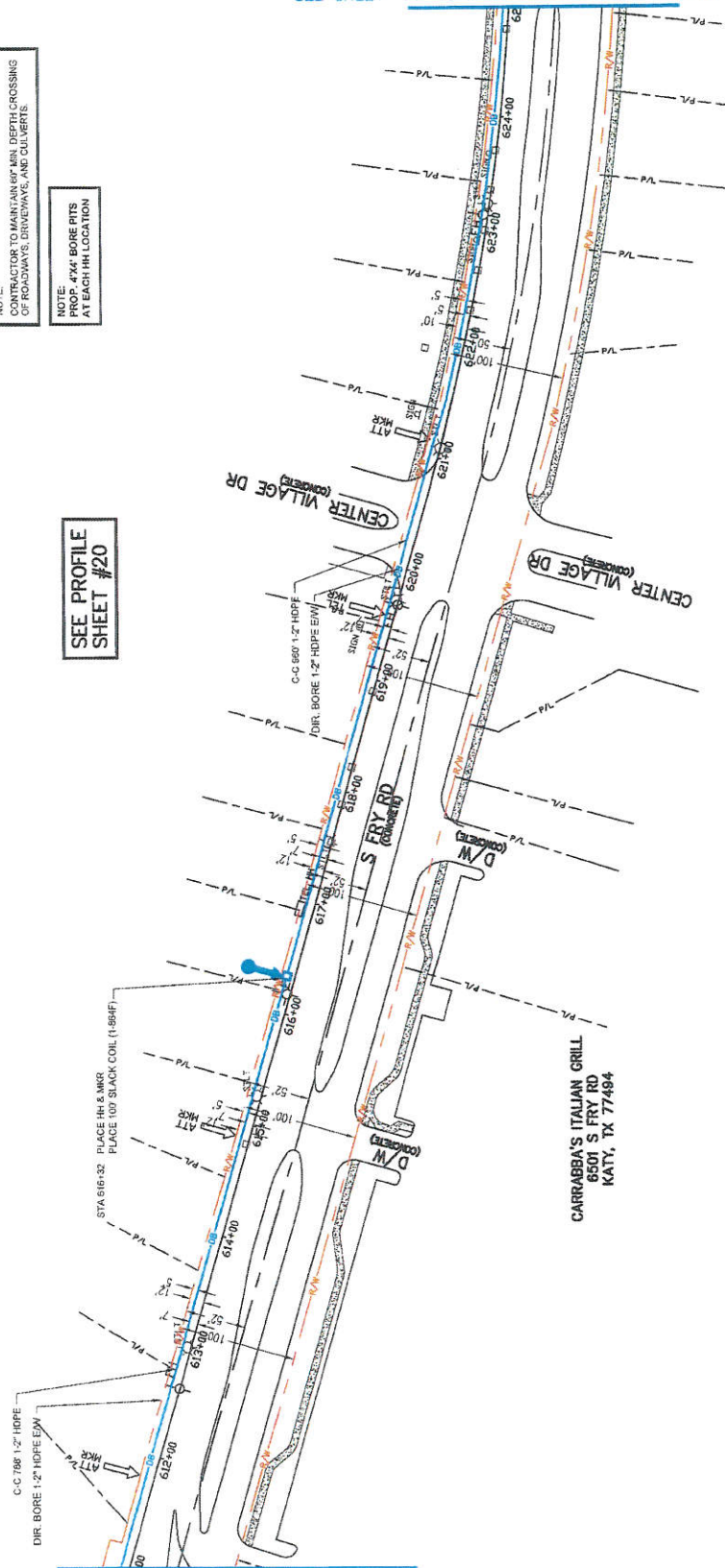
NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGHMAN AT
BANDS@BANDS.COM OR BY PHONE (713) 888-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

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

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

SEE PROFILE
SHEET #20

SEE SHEET 75 TO MATCH SURVEY STA. 613+34



SEE SHEET 77 TO MATCH SURVEY STA. 627+28



CALL BEFORE YOU DIG
48 HOURS NOTICE REQUIRED



CAUTION!!!
UNDEGROUND FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SEWER, AND 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 4444
ALL UTILITIES MUST BE LOCATED BY ROUTING
A 16\"/>

CAUTION!!!
CONTRACTOR TO LOCATE &
REMARK ALL UTILITIES
PRIOR TO CONSTRUCTION

NOTE 4444
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

PROJECT: 1708AD22, 040		
PECAN GROVE TO CINDY RANCH		
CINDY RANCH CELL SITE		
CLARIFICATION NO.	QUANTITY	
PLACE MARKER	1	
PLACE MARKER	1	
PROP. 1.2\"/>		
PULL 1-864\"/>		
TITLE: FIBER OPTIC CABLE ROUTE		
ACCESS TRANSMISSION SERVICES CORP.		
MCI COMMUNICATIONS		
DATE: 11/28/2017		
ENGINEER: GXT/JJ		
DRAWN BY: GXT		
REVISIONS		
DATE	DESCRIPTION	INITIAL
SCALE		
HORIZONTAL: 1\"/>		
VERTICAL: 1\"/>		
SHEET 77 OF 86		
FILE: 1708AD22, 040-77AC, REL.DWG		



KATY, TX
FORT BEND COUNTY
SEE SHEET 78 TO MATCH SURVEY STA. 642+63

SEE SHEET 78 TO MATCH SURVEY STA. 642+63

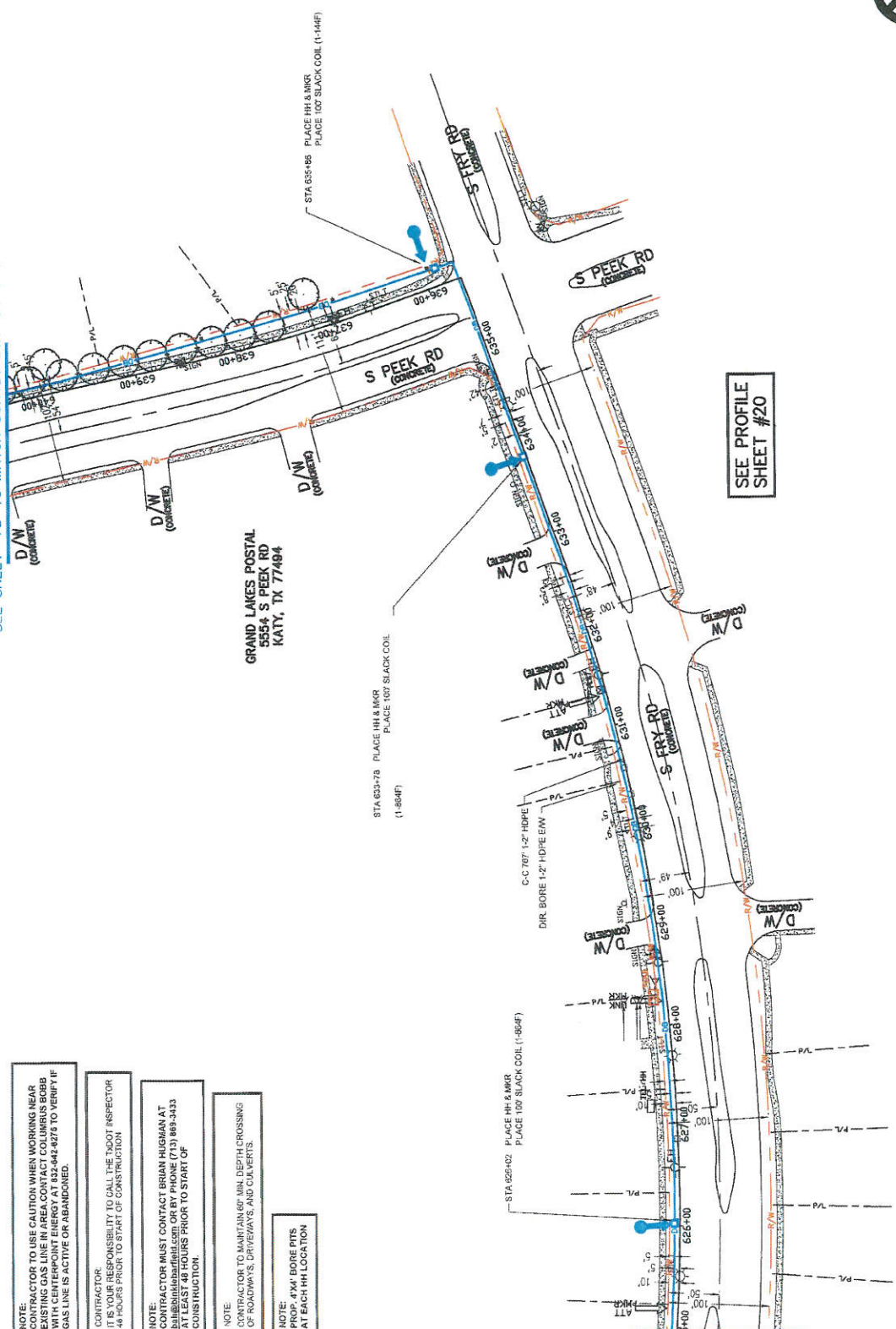
NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING UTILITIES. CONTRACTOR SHALL VERIFY
WAS CENTERPOINT ENERGY AT 1835-642-4272 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

CONTRACTOR
CONTRACTOR RESPONSIBILITY TO CALL THE T800 INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
brian@bushfield.com OR BY PHONE (713) 893-3433
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 SHEET 76 TO MATCH SURVEY STA. 627+28

PROJECT: 1709A023.040
PLAN: 1709A023.040
CINQ GROVE TO CINQ RANCH
CINQ RANCH CELL SITE
CLARIFICATION NO. QUANTITY
PLACE HANDHOLE 3
PLACE MARKER 3
PREP. 1-2" HOPE 1535'
PULL 1-864' CABLE 1835'
TITLE: FIBER OPTIC CABLE ROUTE
ACCESS TO REMEDIATION SERVICES CORP.
DATE: 11/28/2017
ENGINEER: GUY/JJ
DRAWN BY: GUY
REVISIONS
DATE DESCRIPTION INITIAL
SCALE
HORIZONTAL: 1"=100'
VERTICAL: 1"=100'
SHEET 78 OF 85
FILE: 1709A023.040-78AC.B3.B6G



CALL BEFORE YOU DIG
1-800-245-5454
48 HOURS NOTICE REQUIRED

CAUTION!!!
EXISTING UTILITIES, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SEWER, AND OTHER UTILITIES MAY BE LOCATED IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

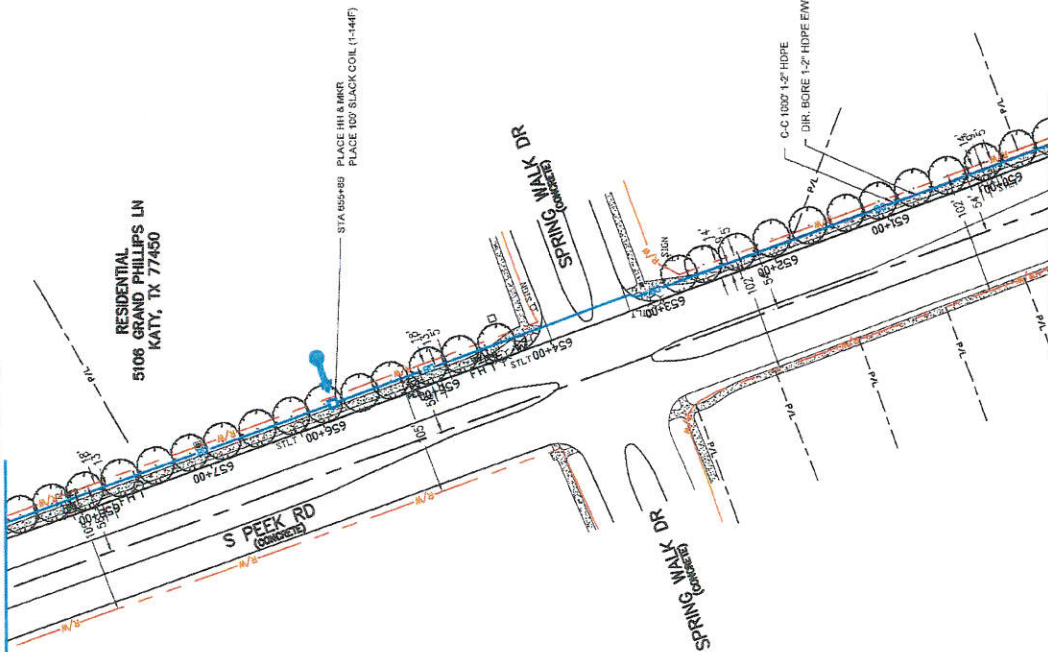
NOTE
ALL UTILITIES MUST BE VERIFIED BY POINTELLING
A 16" MAXIMUM DIAMETER C-LOG WITH A 16" MAXIMUM
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

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

NOTE
UTILITY & DEPTH INFORMATION NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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 832-442-8276 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 HUGHMAN AT
832-442-8276 FOR T-800 INSPECTOR. (31) 885-3433
48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 8 FT MIN. DEPTH CROSSING
OF ROADS, DRIVEWAYS, AND CULVERTS.

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

SEE PROFILE
SHEET #20

PROJECT: 1708AND20. 040	
FROM GROUND TO GROUND BENCH	
CINCO MANHOLE SITE	
CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HOPE	927'
PULL 1-864" CABLE	1027'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRAILER SERVICES CORP.	
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 80	DF 86
FILE: 1708AND20. 040-R&C. REL. 046	



CALL BEFORE YOU DIG
48 HOURS NOTICE REQUIRED



CAUTION: UNDETECTED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SEWAGE, AND OTHER UTILITIES MAY BE LOCATED 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 FIELD LOCATED BY CONTRACTOR
A 12" MINIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY MANUAL EXCAVATION ONLY

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

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



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

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

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

SEE PROFILE
SHEET #20

MCI COMMUNICATIONS
 ACCESS TRANSMISSION SERVICES CORP.
 OUTSIDE PLANT CONSTRUCTION
 TITLE: FIBER OPTIC CABLE ROUTE
 PEACE GROVE TO CINCINNATI
 CINCINNATI CELL SITE, TC 27406
 OUTSIDE PLANT - PLAN

DATE: 11/28/2017	ENGINEER: GXT/JJ	DRAWN BY: GXT	REVISIONS
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NO. 4 (2004)	REVISIONS	DATE OF REVISION
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[illegible]

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. NOT BE REPRODUCED IN ANY MANNER, EITHER WHOLLY OR IN PART, WITHOUT THE WRITTEN PERMISSION OF MCI COMMUNICATIONS SERVICES, INC.

SCALE	1"=100'
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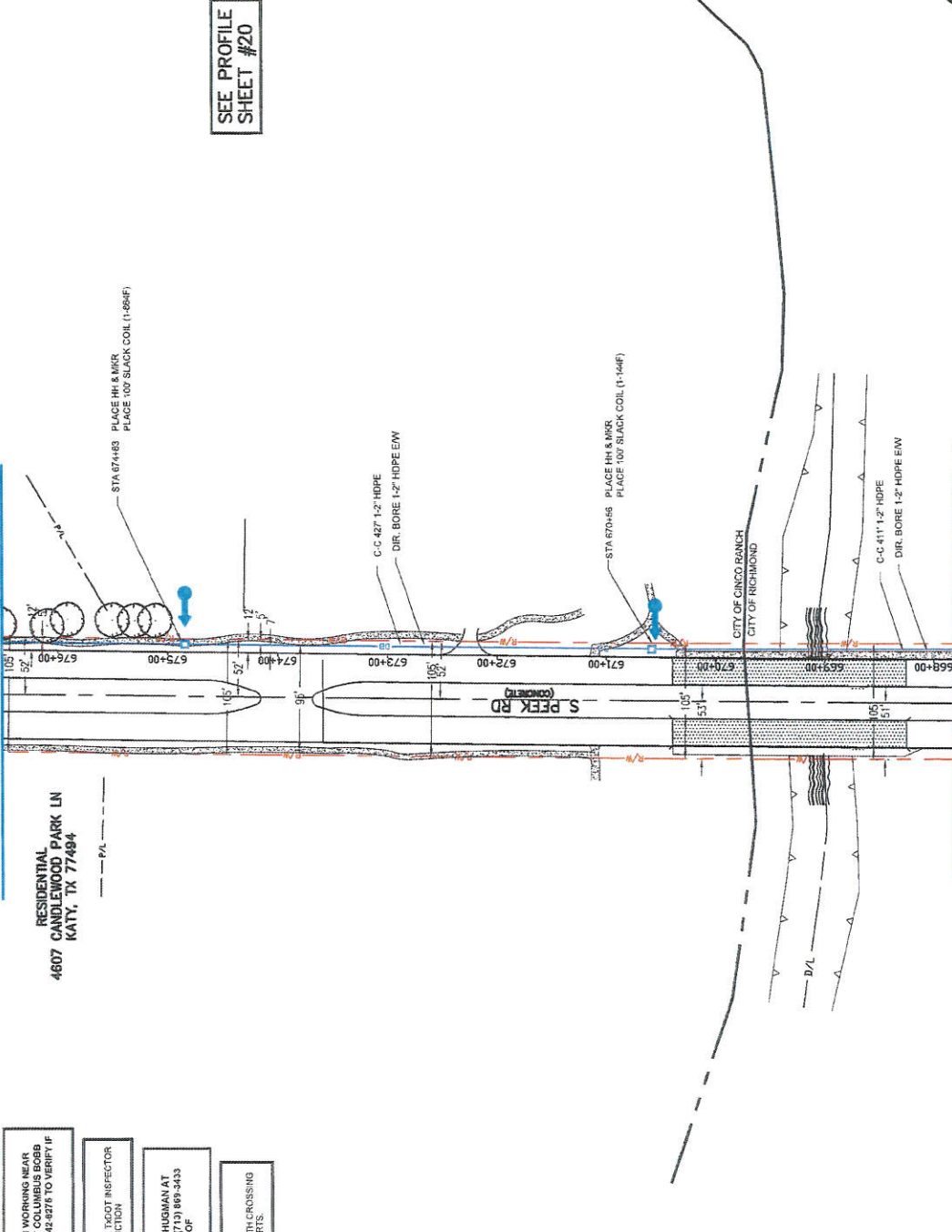
VERTICAL: $1^{\circ}=100''$

MP	TD	MP
SHEET 01	OF	06

SHEET 01 OF 00
FILE: 1708AUZQ.040-81AC.NL.DWG



KATY, TX
FORT BEND COUNTY
SEE SHEET 82 TO MATCH SURVEY STA. 680+51



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 TACOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
brian@brianhugman.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. 42" BORE PITS
AT EACH HH LOCATION

SEE SHEET 80 TO MATCH SURVEY STA. 670+97

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

NOTE:
UTILITY & FIELD LOCATIONS
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

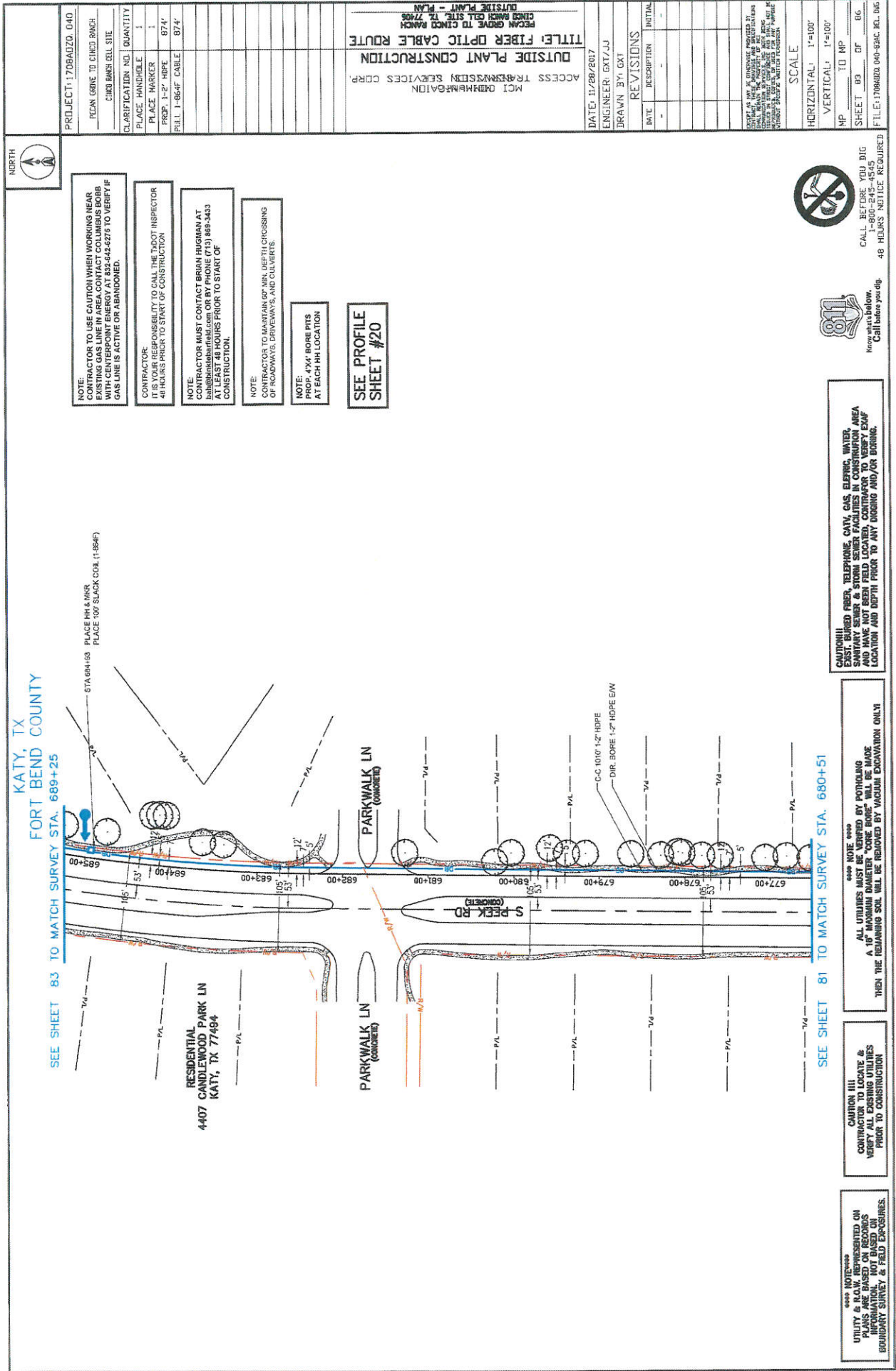
NOTE
ALL UTILITIES MUST BE VERIFIED BY PUNCHING
A 10" HOLE IN THE GROUND PRIOR TO CONSTRUCTION
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION III
EXIST. BURIED FIBER, TELEPHONE, CABLE, ELECTRIC, WATER,
SEWER, GAS, AND OTHER UTILITIES MAY BE PRESENT IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DRILLING AND/OR BORING.



CALL BEFORE YOU DIG
1-800-245-4343
48 HOURS NOTICE REQUIRED

PROJECT: 1708ADZ0.040	
CINCO GROVE TO CINCO RANCH	
CINCO RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE HANDRAIL	3
PLACE MARKER	3
PROP. 12" HOPE	664'
PULL 1-864F CABLE	964'
12" STAND OFF RISER	1
DOWN CUT & ANCHOR	1
PLACE 6H STRAND	250'
LASH 1-864F CABLE	250'
TITLE: FIBER OPTIC CABLE ROUTE	
MCI ODM/REGISTRATION	
ACCESS TRANSMISSION SERVICES CORP.	
FEDAN GROVE TO CINCO RANCH	
CINCO RANCH CELL SITE, 12-7788	
DATE: 11/28/2017	
ENGINEER: GAT/JJ	
DRAWN BY: GAT	
REVISIONS	
DATE	DESCRIPTION
INITIAL	
SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
MP	TO MP
SHEET 82	OF 86
FILE: 1708ADZ0.040-820C.BOL.DWG	



PROJECT: 1708A120.040	
TICAN GROVE TO CINDO RANCH	
CINDO RANCH CELL SITE	
CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 1-2" HDPE	874'
PULL 1-864F CABLE	874'
TITLE: FIBER OPTIC CABLE ROUTE	
ACCESS TRANSMISSION SERVICES CORP.	
MCI COMMUNICATIONS	
DATE: 11/28/2017	
ENGINEER: GXT/JJ	
DRAWN BY: GXT	
REVISIONS	
DATE	DESCRIPTION
INITIAL	
SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
SHEET 03 OF 06	
FILE: 1708A120.040-824C.01.040	

NOTE:
CONTRACTOR TO USE CAUTION WHEN WORKING NEAR
EXISTING GAS LINE IN AREA CONTACT COLLIMBUS 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 TWOOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION.

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
832-642-8275 (TWOOT) 885-3433
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

SEE PROFILE
SHEET #20



CALL BEFORE YOU DIG
1-800-245-5655
48 HOURS NOTICE REQUIRED

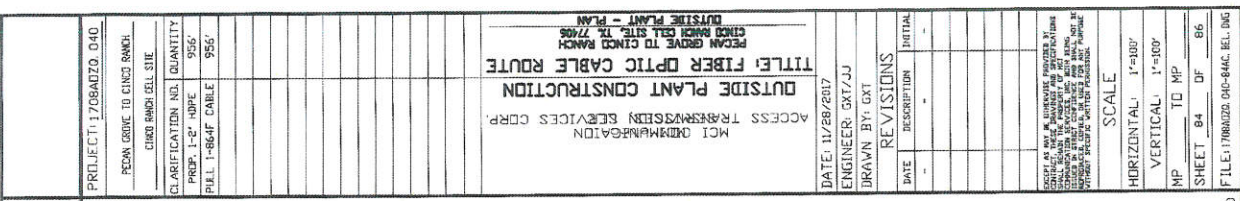


CAUTION!!!
UNDERGROUND UTILITIES: GAS, ELECTRIC, WATER,
SEWER, AND STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

NOTE:
ALL UTILITIES MUST BE FIELD LOCATED BY BORING
A 12" MAXIMUM DIAMETER BORE BASE WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY

CAUTION!!!
CONTRACTOR TO LOCATE &
MARK ALL UTILITIES PRIOR TO CONSTRUCTION

NOTE:
UTILITY & RAW REPRESENTATION ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.



SEE SHEET 84 TO MATCH SURVEY STA. 698+81

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

SEE SHEET B2 TO MATCH SURVEY STA. 689+25

***** 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! BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, EXIST. BURNED FIBER & 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.



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



SCALE
HORIZONTAL 1"=100'

VERTICAL 1"=100'

MP _____ TO MP _____
SHEET 84 OF 88

FILE: 1708AND29, 040-844C, BEL.

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 832-642-4275 TO VERIFY IF
GAS LINE IS ACTIVE OR ABANDONED.

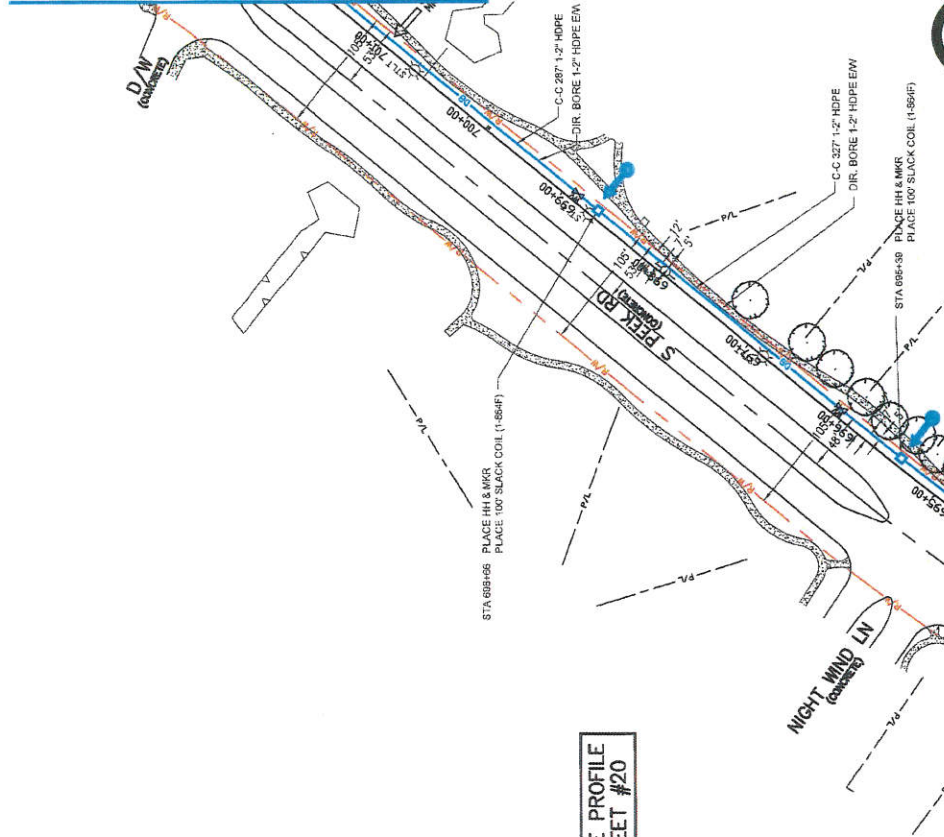
CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE 7600T INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION

NOTE:
CONTRACTOR MUST CONTACT BRIAN HUGMAN AT
brianhugman@earthlink.net OR BY PHONE (713) 965-3433
AT LEAST 48 HOURS PRIOR TO START OF
CONSTRUCTION.

NOTE:
CONTRACTOR TO MAINTAIN 07" MIN. DEPTH CROSSING
OF ROADWAYS, UNDERWAYS, AND CULVERTS.

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

SEE SHEET 85 TO MATCH SURVEY STA. 705+49



SEE PROFILE
SHEET #20

SEE SHEET 83 TO MATCH SURVEY STA. 698+81

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

UTILITY & P.A.W. REPRESENTED ON
THIS PLAN. CONTRACTOR TO VERIFY
LOCATION, DEPTH, AND DIRECTION OF
BOUNDARY SURVEY & FIELD EXPOSURES.

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

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



Know what's below.
Call before you dig.

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



SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

HP TO GP

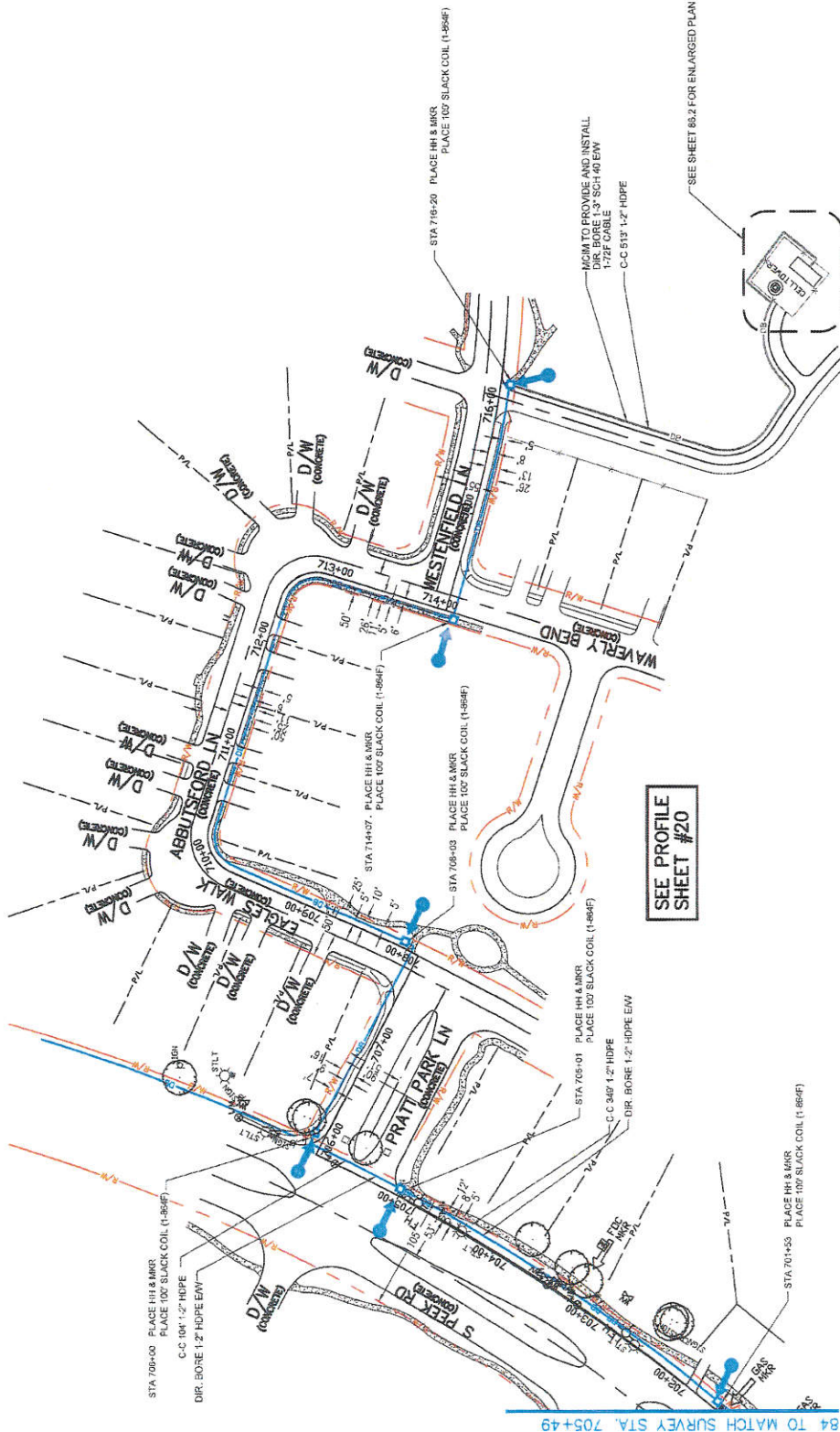
SHEET 85 OF 86

FILE: 1708ADZ0.040-85AC.BEL.DWG

DATE: 11/28/2017
ENGINEER: GXT/JJ
DRAWN BY: GXT
REVISED
DATE DESCRIPTION INITIAL
TITLE: FIBER OPTIC CABLE ROUTE
OUTSIDE PLANT CONSTRUCTION
ACCESS TRAILWAYS SERVICES CORP.
MCI COMMUNICATIONS
PEAK BEND GOLF SITE, TX 77450
OUTSIDE PLANT - PLAN

PROJECT: 1708ADZ0.040
FROM: GLOBE TO CINDY RANCH
CINDY RANCH GOLF SITE
CLARIFICATION NO. QUANTITY
PLACE HANDHOLE 2
PLACE MARKER 2
PROP. 1-2\"/>

KATY, TX
FORT BEND COUNTY



SITE NAME: CINCO RANCH
SITE NUMBER: 67789-D
22615 WESTHEIMER PDWY
KATY, TX 77498



CAUTION!!
EXIST. BURIED FIBER, TELEPHONE, CABLE, GAS, ELECTRIC, WATER,
SEWER & SHIELDED CABLES MAY BE LOCATED. CALL BEFORE YOU DIG
AND HAVE FIELD LOCATED. COVERS MUST BE USED TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

Know what's below.
Call before you dig.

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

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

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



SCALE	
HORIZONTAL: 1"=100'	
VERTICAL: 1"=100'	
MP	TD MP
SHEET 86	OF 86
FILE: 17084020-040-864C REL. JG	

DATE	DESCRIPTION	INITIAL

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

TITLE: FIBER OPTIC CONSTRUCTION
ACCESS TRANSMISSION SERVICES CORP.
MCI COMMUNICATIONS
PEAN GROVE TO CINCO RANCH
OUTSIDE PLANT - PLAN

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 & ANCHOR	1
PLACE ON STAND	4'
LASH 1-864F CABLE	4'

PROJECT: 17084020, 040
PEAN GROVE TO CINCO RANCH
CINCO RANCH CELL SITE