

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

Fort Bend County Engineering Department

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500 Permits@fortbendcountytx.gov

Commercial Driveway Permit Permit No: 2018-23705 Applicant: MCI Metro Access Transmission Services, Corp./Verizon Job Location Site: 2756 FM 723 , ROSENBERG, TX 77471 Bond No. Date of Bond: 5/1/2017 Amount: \$50,000.00 The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas, as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistant with Chapter 181, Vernon's Texas Statutes and Codes Annoted. Notes: 1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown. 2. Written notices are required: a. 48 hours in advance of construction start up, and b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal. 3. This permit expires one (1) year from date of permit if construction has not commenced. 4. This permit applies to work performed within right-of-ways owned and maintained by Fort Bend County only,				
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and it is the responsibility of the applicant to acquire all other necessary permits.				
On this 6th day of November, 2018, Upon Motion of Commissioner				
Signature Presented to Commissioners Court and approved. Date Recorded 11-9-20 Comm. Court No. 12B County Engineer				
By: Clerk of Commissioners Court By: By: Drainage District Engineer/Manager Drainage District Engineer/Manager				



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

X Rigi	ht of Way Permit	1 omnociono di la	o.gov		
Con	nmercial Driveway Pe	ermit			
	o: 2018-23705				
The following "Notice of Proposed Cable, Condattachments have been reviewed and the notice Fort Bend County, Texas.		· · · · · · · · · · · · · · · · · · ·	-		
(1) COMPLETE APPLICATION FORM:					
X a. Name of road, street, and/or	r drainage ditch affect	ed.			
X b. Vicinity map showing course	of directions				
x c. Plans and specifications					
(2) BOND:	į.				
County Attorney, approval whe applicable.	n				
X Perpetual bond currently posted.	Bond No:	Amount: \$50,000.00			
Performance bond submitted.	Bond No:	Amount:			
Cashier's Check	Check No:	Amount:			
(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):					
Drainage District Approval Date					
We have reviewed this project and agree it meets minimum requirements.					
,					
Lan Efter		10/29/2018			
Permit Administrator		Date			

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE

ECC FIBER BUILD: 1706ANBA.005 PECAN GROVE TO FM-723 RICHMOND, TX

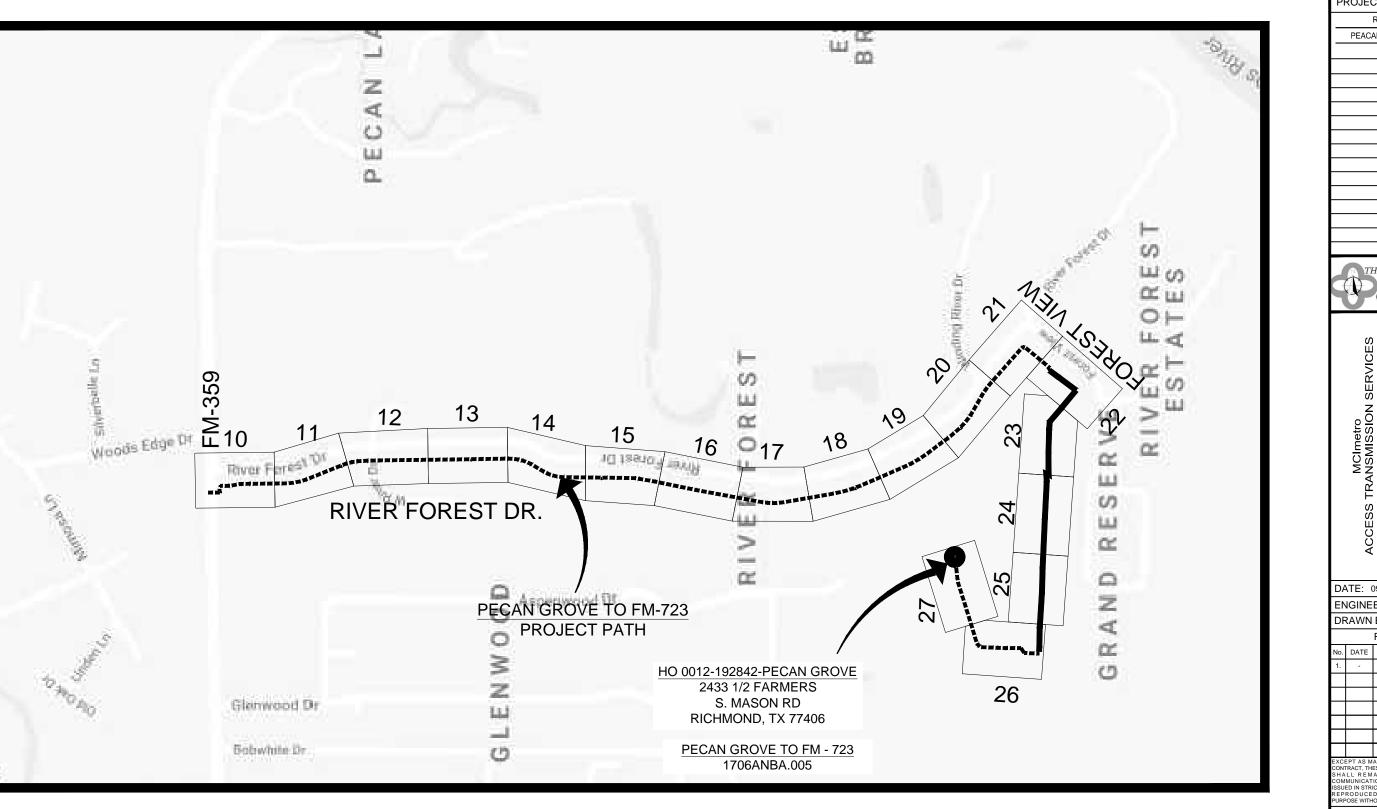
SITE CODE: HODATX

PROJECT STATUS: CONSTRUCTION

DATE: 09/21/18

LOCATION MAP RICHMOND, TX FORT BEND COUNTY





MAP LINE LEGEND

 PROPOSED BURIED CABLE
 PROPOSED AERIAL CABLE

PROJECT: 1706ANBA.005					
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MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	4		
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CONTACT SHEET

MCI

PROJECT ENGINEER:

PROJECT MANAGER:

PROJECT COORDINATOR:

OUTSIDE PLANT CONSTRUCTION:

CONSTRUCTION CONTRACTOR: ERVIN CABLE CONSTRUCTION 844-322-2524

CONSTRUCTION MANAGER: AURELIO MALLAMANCE 270-349-0337

AGENT: MANAGER:

COORDINATOR: MANAGER:

PROGRAM MANAGER:
LIGHTWAVE ENGINEER:
CIVIL ENGINEER:
TERMINAL CONST. REP.:
SPLICING MANAGER:
TSO MANAGER:

ENGINEERING CONTRACTOR

RAILROADS

UNION PACIFIC RAILROAD

DANIEL PETERS

402-544-8620

UTILITIES

MCI UTILITY LOCATE

1-800-624-9675

1-800-545-6005

TEXAS ONE CALL SYSTEM (UTILITY LOCATES)

NON MEMBERS:

CITY GOVERNMENT

RICHMOND PUBLIC WORKS DEPARTMENT 600 MORTON STREET , RICHMOND TEXAS PUBLIC WORKS - 281-342-0559 CITY ENGINEER – KELLY KALUZA

COUNTY GOVERNMENT

STATE GOVERNMENT

TEXAS DEPARTMENT OF TRANSPORTATION 7600 WASHINGTON AVE. HOUSTON TX, 77076 HOUSTON DISTRICT - PERMITS PERMIT COORDINATOR: TRICIA COLLETTE

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

FEDERAL GOVERNMENT

N/A

OTHER

N/A

PROJECT: 1706ANBA.005 RICHMOND, TX PEACAN GROVE TO FM - 723 GETTERS. MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX DATE: 09/21/18 ENGINEER: ECC

ENGINEER: ECC
DRAWN BY: T.P.G.
REVISIONS

No. DATE DESCRIPTION B
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY OPEROSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

P TO MP

SHEET 3 OF 27

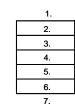
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GENERAL NOTES / CLARIFICATION NOTES

GENERAL NOTES

- 1. VERIZON BUSINESS COMPRISES THE FOLLOWING OPERATING ENTITIES:
 - MCI COMMUNICATIONS SERVICES. INC.
 - MCI METRO COMMUNICATIONS SERVICES, INC.
 - 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 PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, VERIZON BUSINESS AND THE RIGHT-OF-WAY GRANTOR.
- LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALUATION MAPS OR OTHER DRAWINGS AND MAY NOT BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
- 4. 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 THE EVENT OF CONFLICT.
- 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.
- ANY AND ALL IMPROVEMENTS, SUCH AS ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL CONDITION.
- 7. EQUIPMENT TYPES SPECIFIED HEREIN (IE: "BACKHOE", SWAMP PLOW" ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXPECTATIONS.
- 8. SHORING OF BORE PITS AND TRENCHES IN ACCORDANCE WITH OSHA REGULATIONS IS MANDATORY.
- BURIED CABLE MARKERS WILL BE PLACED AT ALL UNDERGROUND UTILITY LOCATIONS AND ALL OTHER LOCATIONS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND THE OUTSIDE PLANT HANDBOOK.
- 10. ALL 4" ID CONDUIT WILL BE SCHEDULE 40 (EG.: PVC OR GSP/BSP), OR AS SPECIFIED.
- 11. UNDERGROUND CONDUIT WILL BE PLACED AT 48" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

CLARIFICATION NOTES



- 1. STATION
- 2. LOCATION
- 3. CLARIFICATION NO. AND MINIMUM COVER
- QUANTITY LINEAR FOOTAGE/SQUARE FOOTAGE, SIZE OF MANHOLE/HANDHOLE SIZE OF PULL/SPLICE BOX, DIMENSION OF WALL, HEIGHT/CLASS/TYPE OF POLE
- 5. TYPICAL DRAWING NO. AND TYPICAL DETAIL DRAWING NUMBER
- 6. PLANT ACCOUNTING CODE
- 7. SPECIFIED CONDUIT, HANDHOLE/MANHOLE NO., SPECIFIED PURPOSE AND MATERIAL, BRIDGE NO. AND RAILROAD STATION, MATERIAL, POLE NO.

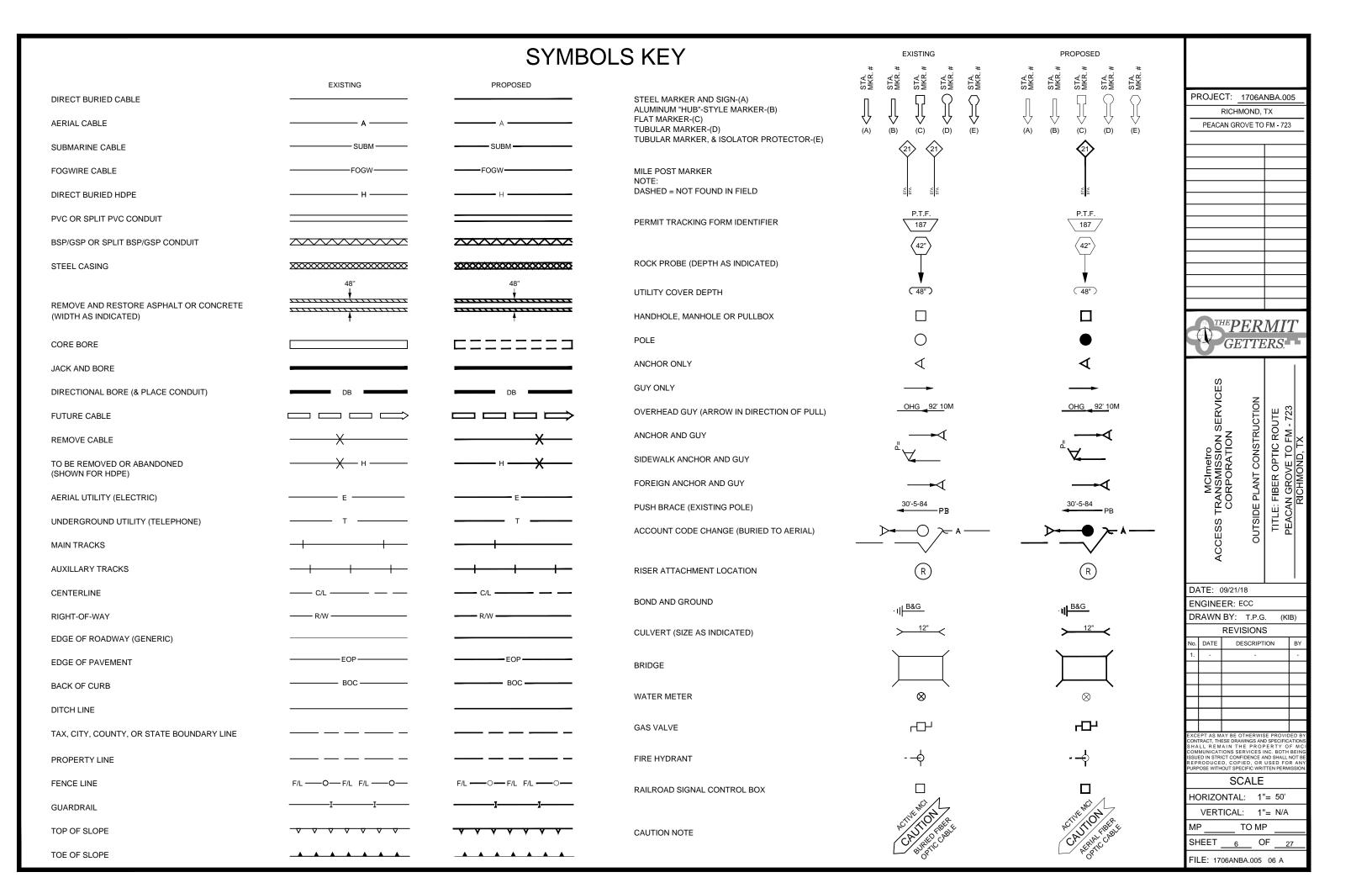
ADDENDUM NOTES

CLARIFICATION NOTES (CONTINUED)

100	110	JACK AND DRY BORE CONDUIT(S)
000		DI ACE CONDUIT
200	210	PLACE CONDUIT
	212	PLACE HIGH DENSITY POLYETHYLENE (HDPE)
	213	ROCK ADDER
	214	SLURRY BACKFILL ADDER
	215	EXPOSE CONDUIT
	216	EXPOSE CONDUIT AND REPLACE (CURCUIT LITE
	217	EXPOSE CONDUIT AND REPLACE/SUBSTITUTE
	218	EXPOSE AND REMOVE CONDUIT
	219	EXPOSE AND REMOVE CONDUIT (ABANDONED)
	220	CONCRETE ENCASE
	221	REMOVE CONCRETE ENCASEMENT
	222	REMOVE CONCRETE CAP
	240	PLACE HANDHOLE
	244	REMOVE EXISTING HANDHOLE
	245	RELOCATE HANHOLE
	246	REPLACE/SUBSTITUTE HANDHOLE
	247	EXCAVATE SPLICE PIT
	250	PLACE MANHOLE
	252	REMOVE EXISTING MANHOLE
	255	RELOCATE PRECAST MANHOLE
	256	REPLACE/SUBSTITUTE PRECAST MANHOLE
	180	CONSTRUCT WALL
	270	REMOVE AND RESTORE ASPHALT
	280	REMOVE AND RESTORE CONCRETE
	281	REMOVE AND RESTORE SIDEWALK
	282	REMOVE AND RESTORE CURBING
300	310	ATTACH CONDUIT TO WALL OR STRUCTURE
000	315	DETACH CONDUIT FROM WALL OR STRUCTURE
	320	CORE BORE
	330	ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE
	000	MINORI GEEGI EIGE BOX TO WILE ON OTHOUTONE
400	410	PULL CABLE
	411	PULL THROUGH DUCT (INNERDUCT)
	415	REMOVE CABLE FROM CONDUIT
	420	REPOSITION ACTIVE CABLE SLACK
500	510	DIRECT BURY CABLE
	515	EXPOSE DIRECT BURIED CABLE
	516	EXPOSE DIRECT BURIED CABLE AND RELOCATE
	517	REMOVE AND DISPOSE OF CABLE
	520	PLACE AERIAL CABLE
	525	RELOCATE AERIAL CABLE
	518	DELASH AERIAL CABLE
	527	RELASH AERIAL CABLE
	528	REMOVE AERIAL CABLE
	530	PLACE POLE/PUSH BRACE
	535	REMOVE POLE/PUSH BRACE
600	610	JETTING CONDUIT
600	620	EMBEDMENT PLOW
	630	DIRECTIONAL BORE
	030	DIRECTIONAL BORE
700	710	PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM
		WATER CROSSING SIGNS
	711	PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING
	713	HANDHOLES/MANHOLES
	712	REMOVE BURIED CABLE MARKER POST/HARDWARE
	714	REMOVE CONCRETE BURIED CABLE MARKER POST

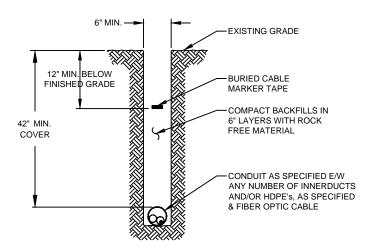
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MCImetro ACCESS TRANSMISSION SERVICES		OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	PEACAN GROVE TO FM - 723 RICHMOND, TX		
DATE: 09/21/18 ENGINEER: ECC						
DRAWN		T.P.G	. (K			
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CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.						

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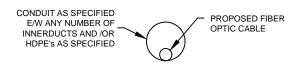
CONSTRUCTION DETAILS

TYPICAL DETAIL"A" TRENCH & PLACE CONDUIT



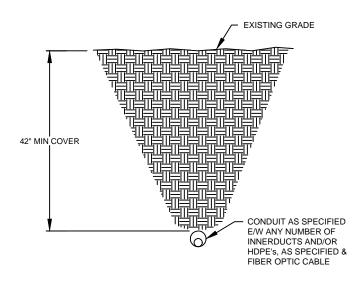
TYPICAL DETAIL "B"

CROSS SECTION OF PROPOSED HDPE



TYPICAL DETAIL "C"

DIRECTIONAL BORE CROSS SECTION FOR CONDUIT



PROJECT: 1706ANBA.005 RICHMOND, TX PEACAN GROVE TO FM - 723 THE PERMIT

GETTERS.

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX

DATE: 09/21/18

ENGINEER: ECC DRAWN BY: T.P.G.

REVISIONS

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SCALE

HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A

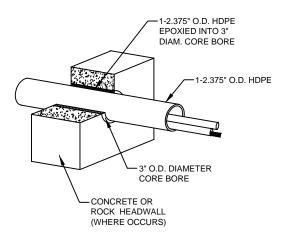
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TYPICAL DETAIL "D"

3" CORE BORE

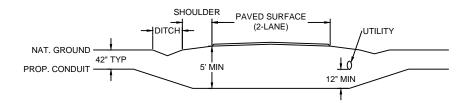


NOTE: EPOXY GROUT IS USED AT BOTH ENDS OF CORE BORE TO SEAL GAP BETWEEN 2.375" CONDUIT AND PVC SLEEVE.

TYPICAL CROSSING PROFILE DETAILS: UNDERGROUND

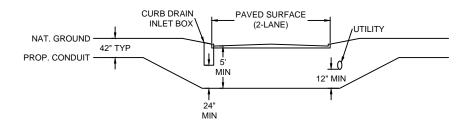
TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



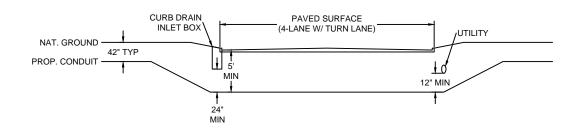
TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



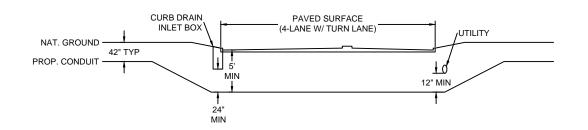
TYPICAL DETAIL "C"

FOUR LANE (W/ TURN LANE) - CURBED ROAD - NO MEDIAN



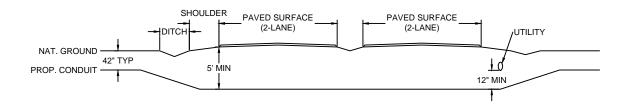
TYPICAL DETAIL "D

FOUR LANE (W/ TURN LANE) - CURBED ROAD - WITH MEDIAN



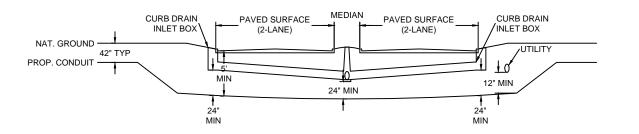
TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD



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PEACAN GI	ROVE TO	FM - 723
THE	PER	MIT



ACCESS TRANSMISSION SERVICES
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
PICHMOND TX

DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G. (K

No. DATE DESCRIPTION B
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OF 27

SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

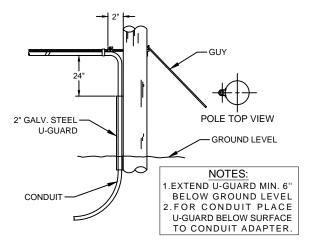
MP _____ TO MP

FILE: 1706ANBA.005 07AA

GENERAL AERIAL CONSTRUCTION DETAILS

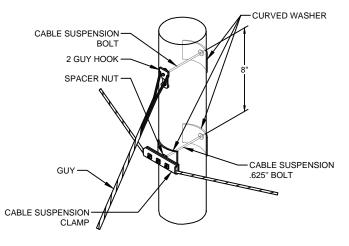
TYPICAL DETAIL "A"

POLE ARRANGEMENT FOR AERIAL TO BURIED



TYPICAL DETAIL "D"

SUSPENSION STRAND - PULL TOWARD POLE - LESS THAN 5 FEET



TYPICAL DETAIL "G"

JOINING 045 LASHING WIRE



FORMING WIRE OVER STUD OF CLAMP

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 0.75" BEYOND THE END OF THE CLAMP.

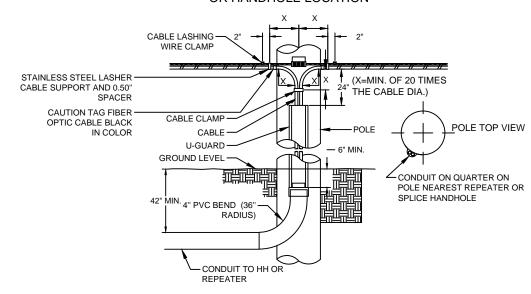


FORMING LASHING WIRE AROUND STRAND

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

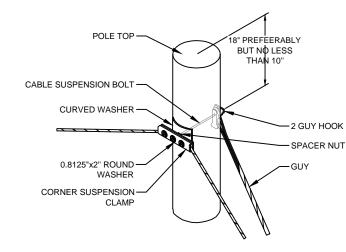
TYPICAL DETAIL "B"

POLE ARRANGEMENT FOR REPEATER OR HANDHOLE LOCATION



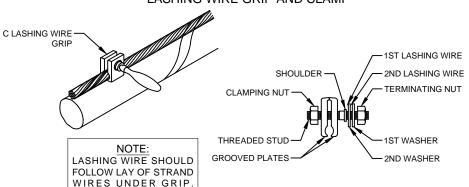
TYPICAL DETAIL "E"

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



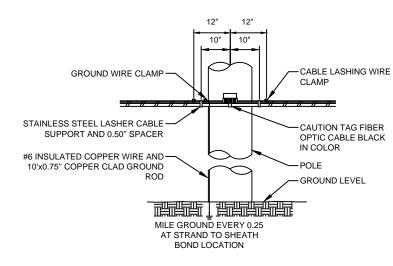
TYPICAL DETAIL "H"

LASHING WIRE GRIP AND CLAMP



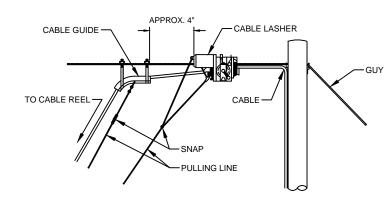
TYPICAL DETAIL "C"

TYPICAL CABLE & HARDWARE INSTALLATION



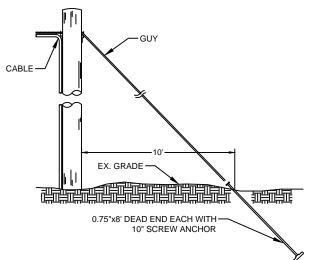
TYPICAL DETAIL "F"

TYPICAL ARRANGEMENT OF CABLE LASHER AND CABLE GUIDE



TYPICAL DETAIL "I"

ANCHOR & DOWN GUY



PROJECT: 1706ANBA.005 RICHMOND, TX PEACAN GROVE TO FM - 723

GETTERS:

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DA	DATE: 09/21/18					
ΕN	IGINE	ER: E	CC			
DRAWN BY: T.P.G. (KIB)						
REVISIONS						
No.	DATE	DI	ESCRIPT	ION	BY	
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS HALL REMAIN THE PROPERTY OF MCIONMUNICATIONS SERVICES INC. BOTH BEING SSUED IN STRICT CONFIDENCE AND SHALL NOT BE LEPRODUCED, COPIED, OR USED FOR ANY UKPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP TO MP

SHEET <u>7B</u> OF <u>27</u>
FILE: 1706ANBA.005 07BA

AERIAL IN-LINE SLACK STORAGE DETAILS

TYPICAL DETAIL "A"

RESERVE CABLE LENGTH
STRAND STORAGE APPLICATION

TYPICAL DETAIL "B"

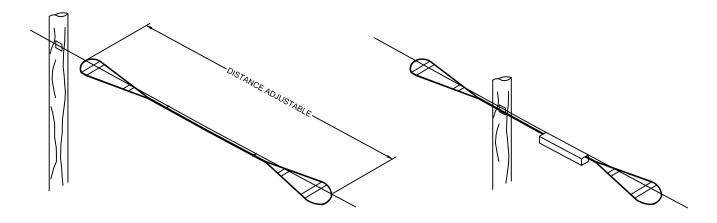
IN-LINE SPLICE APPLICATION

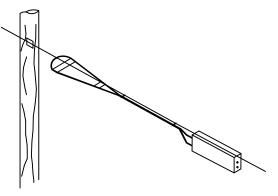
TYPICAL DETAIL "C"

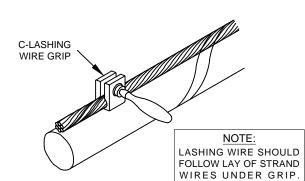
BUTT SPLICE APPLICATION

TYPICAL DETAIL "D"

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





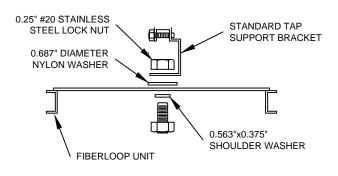


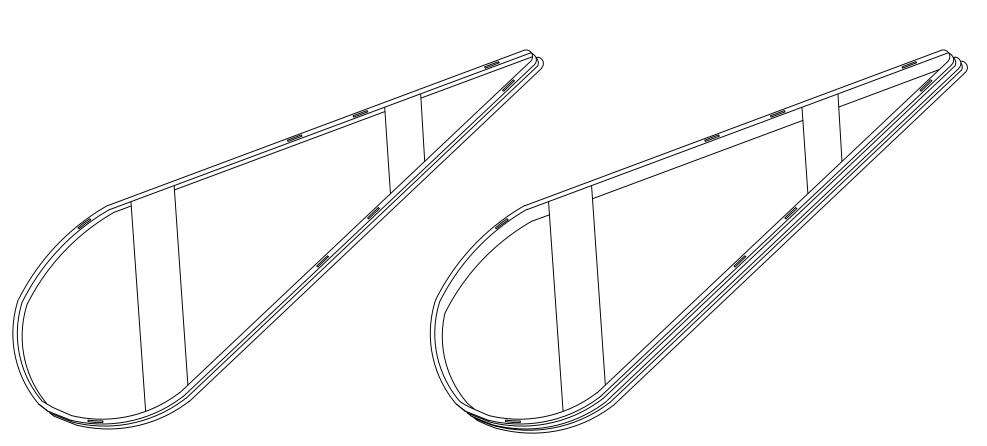
TYPICAL DETAIL "E"

HARDWARE KIT

TYPICAL DETAIL "F"

SINGLE & DOUBLE FIBER LOOPS





PROJECT: <u>1706ANBA.005</u>					
RICHMOND, TX					
PEACAN G	PEACAN GROVE TO FM - 723				
THEPERMIT					
GETTERS.					

ACCESS TRANSMISSION SERVICES
CORPORATION
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723

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

SCALE

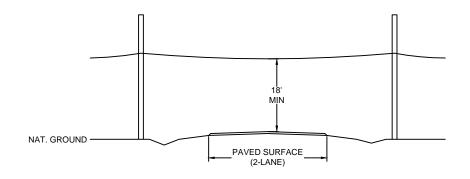
HORIZONTAL: 1"= 50'
VERTICAL: 1"= N/A

FILE: 1706ANBA.005 07CA

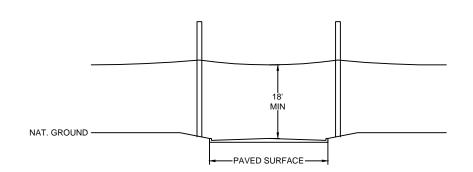
TYPICAL CROSSING PROFILE DETAILS: AERIAL

TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB

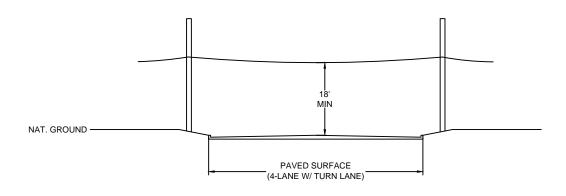


TYPICAL DETAIL "B"
TWO LANE - CURBED ROAD



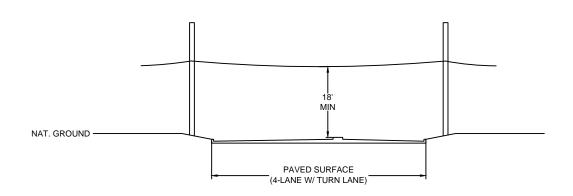
TYPICAL DETAIL "C"

FOUR LANE (W/ TURN LANE) - CURBED ROAD - NO MEDIAN



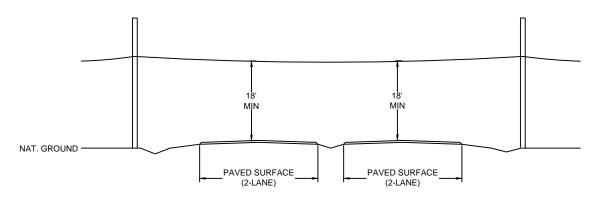
TYPICAL DETAIL "D

FOUR LANE (W/ TURN LANE) - CURBED ROAD - WITH MEDIAN



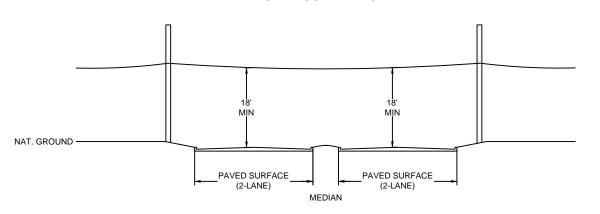
TYPICAL DETAIL "E"

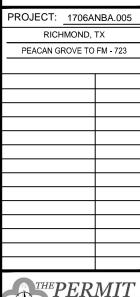
4 LANE - SPLIT ASPHALT ROAD - NO CURB

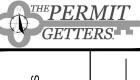


TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD







DATE: 09/21/18

ENGINEER: ECC

DRAWN BY: T.P.G.

REVISIONS
No. DATE DESCRIPTION

No.	DATE	DESCRIPTION	
1.	-	•	

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS HALL REMAIN THE PROPERTY OF MCIONMUNICATIONS SERVICES INC. BOTH BEING SSUED IN STRECT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY URPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

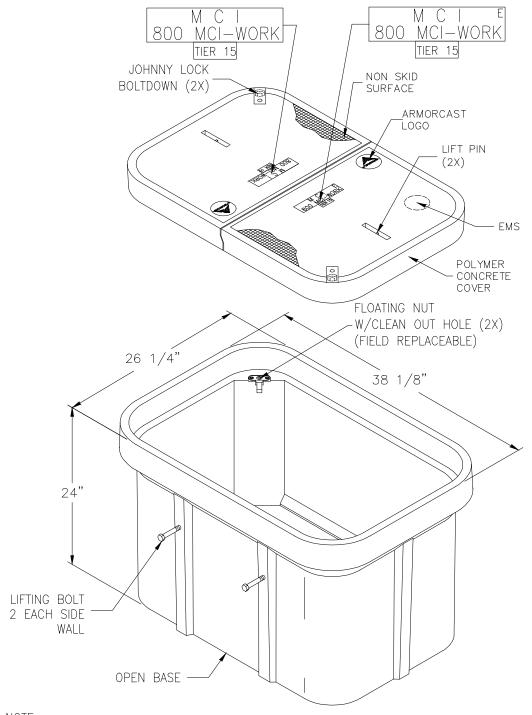
SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

FILE: 1706ANBA.005 07DA

24" x 36" x 24" POLYMER CONCRETE BOX ASSEMBLY



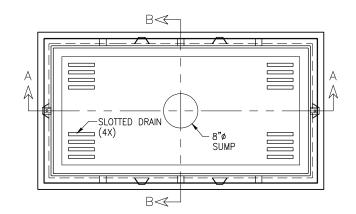
NOTE:
BOX AND COVER ASSEMBLY MEET
ANSI/SCTE 77 TIER 15 LOADING

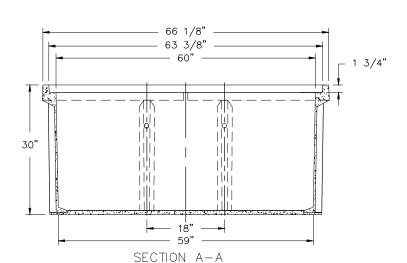
> □		PART DESC	RIPTION				
FILE # A6-1974TAPI	13230 Saticoy Street, North Hollywood, CA 91605 (818) 982—3600	24" X	36"	X 24" POLYMER	CONCRETE BOX ASSEMBLY		
741	· /	CUSTOMER					
₹ ARMORCAST® PRODUCTS COMPANY			VERIZON				
MCI4	"THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL. THE DRAWING IS NOT TO BE	DRAWN	DATE		MAX. LOAD		
4	REPRODUCED OR ITS CONTENTS DIVULGED IN ANY WAY WHATSOEVER EXCEPT WITH THE	OA	10/17	NONE	TIER 15		
	PRIOR WRITTEN APPROVAL OF ARMORCAST PRODUCTS COMPANY. IT IS THE PROPERTY OF AND MUST BE RETURNED TO ARMORCAST PRODUCTS COMPANY, 13230 SATICOY	APROV.		MATERIAL	DRAWING NUMBER		
	STREET, NORTH HOLLYWOOD, CALIFORNIA 91605."	WS	10/17	POLYMER CONCRETE	[A60019/4]APMCI4		

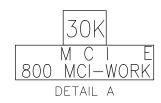
PROJECT:	1706A	NBA.00)5
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PEACAN GF	ROVE TO	FM - 72	3
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MCImetro MCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	RICHMOND, TX
	ECC		
DRAWN BY:	T.P.G	. (KI	B)
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No. DATE [DESCRIPT -	ION	BY -
EXCEPT AS MAY BE	OTHERWIS	E PROVID	ED BY
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FILE: 1706AN	IBA 005	08 A	

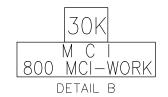
30" x 60" x 30" 30K STANDARD HANDHOLE DETAILS

DETAIL "A" LOCKING DEVICE **CROSS SECTION**

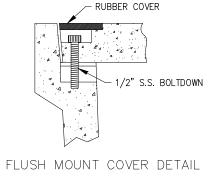


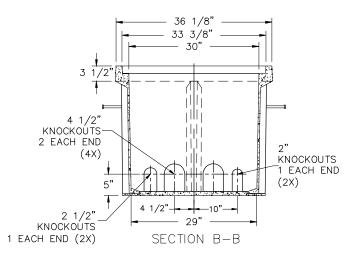




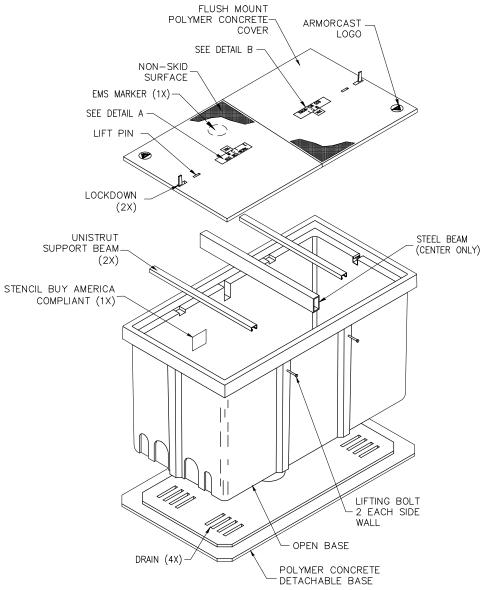


DETAIL "B" FLUSH MOUNT COVER DETAIL





DETAIL "C" **EXPLODED ISOMETRIC DETAIL**



SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN

ITEM QTY

- JOHNNY LOCK KEY
- S.S. JOHNNY BOLTS W/FLAT WASHER.
 SHRINK WRAP COVERS TO FRAME FOR PACKAGING.

30K STANDARD HANDHOLE

30"x60"x30" POLYMER CONCRETE FLUSH MOUNT ASSEMBLY **MEETS SCTE/ANSI 77-TIER 22 LOADING CRITERIA ADDITIONAL REQUIREMENTS: DESIGNED LOAD: 30,000 LBS MINIMUM FAILURE LOAD: 45,000 LBS**

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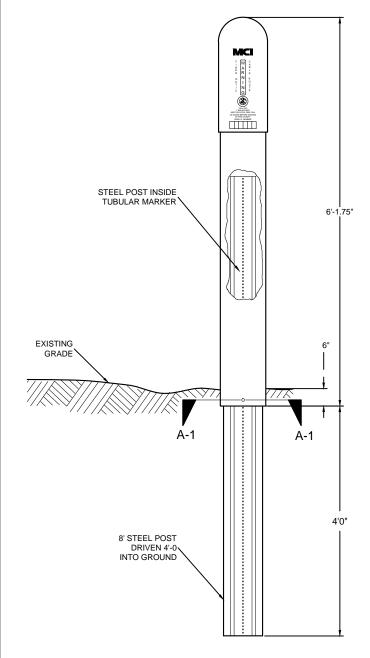
TO MP OF

FILE: 1706ANBA.005 08AA

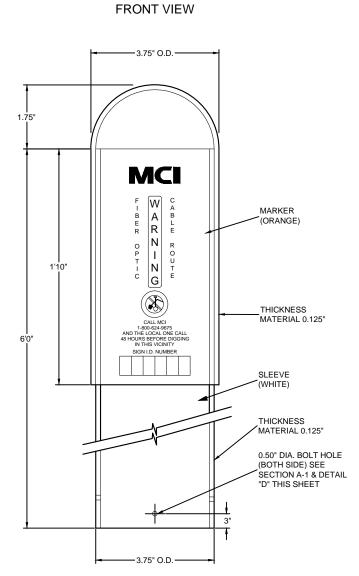
TUBULAR MARKER DETAILS

DETAIL "A"

INSTALLATION VIEW

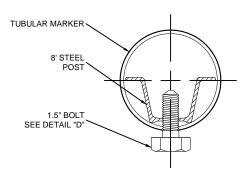


DETAIL "B"



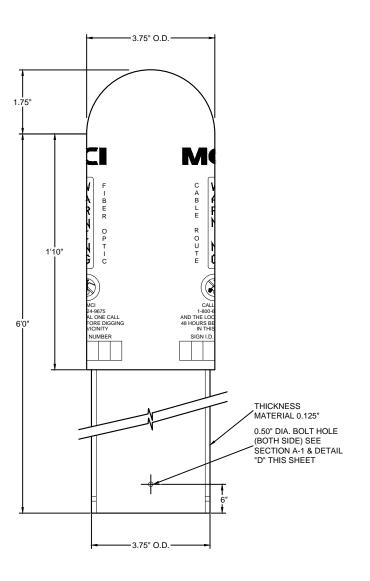
SECTION A-1

TUBULAR MARKER



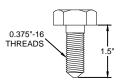
DETAIL "C"

SIDE VIEW



DETAIL "D"

1.5" BOLT



PROJECT: 1706ANBA.005 RICHMOND, TX PEACAN GROVE TO FM - 723



MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX

DATE: 09/21/18 ENGINEER: ECC

DRAWN BY: T.P.G.

REVISIONS DESCRIPTION

(KIB)

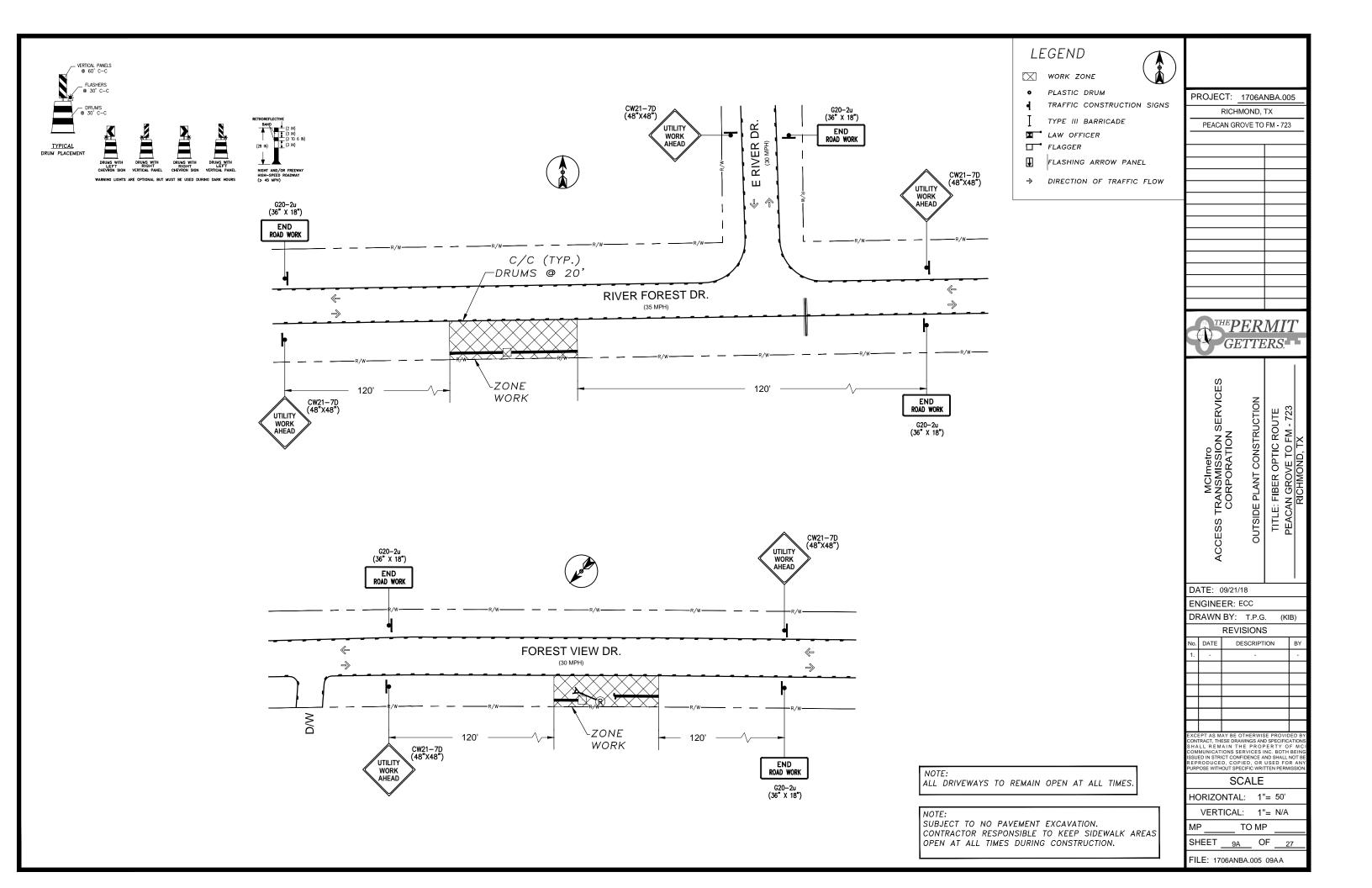
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SCALE

HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A

TO MP

FILE: 1706ANBA.005 09 A



NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC.

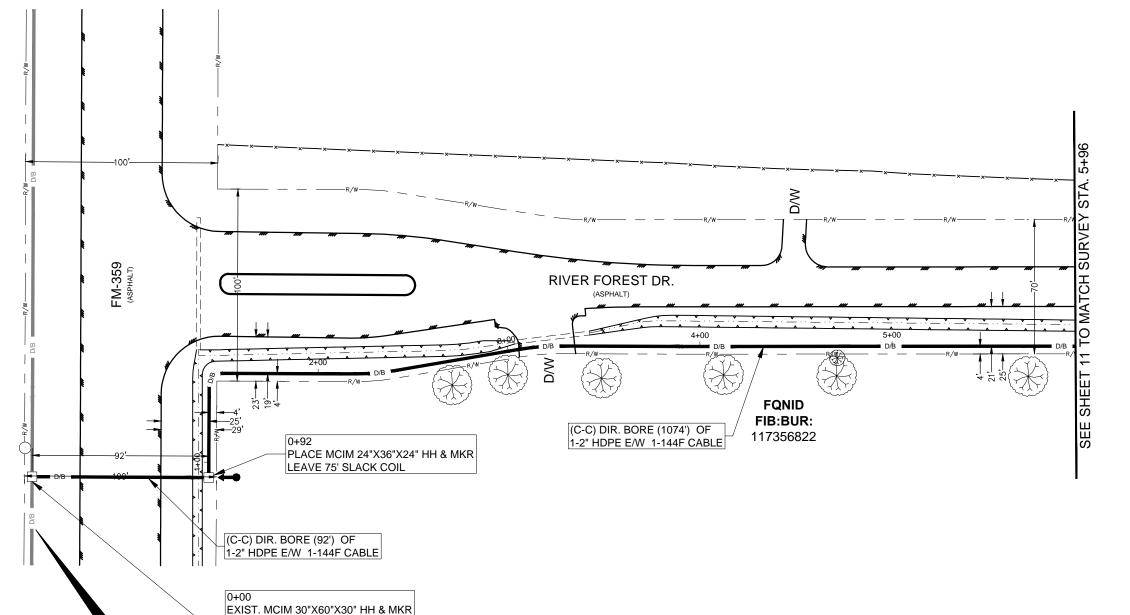
RICHMOND, TX FORT BEND COUNTY

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

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.

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



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

NOTE: THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

LEAVE 75' SLACK COIL BEGIN DIR. BORE

PECANGROVE_OVEREASY_1706ANBE0005 SHEET 38 OF 129 FOR BACKBONE TIE-IN

SEE PROJECT:

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.



Know what's below.
Call before you dig.
CALL BEFORE YOU DIG 1-800-545-6005 48 HOURS NOTICE REQUIRED

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	PL	JLL 1-144	F (DE) (CABLE	-	
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		MCImetro ACCESS TRANSMISSION SERVICES			TITLE: FIBER OPTIC ROUTE	RICHMOND, TX
	D/	ATE: ()9/21/	18		
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TO MP

FILE: 1706ANBA.005 010

SHEET

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NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC.

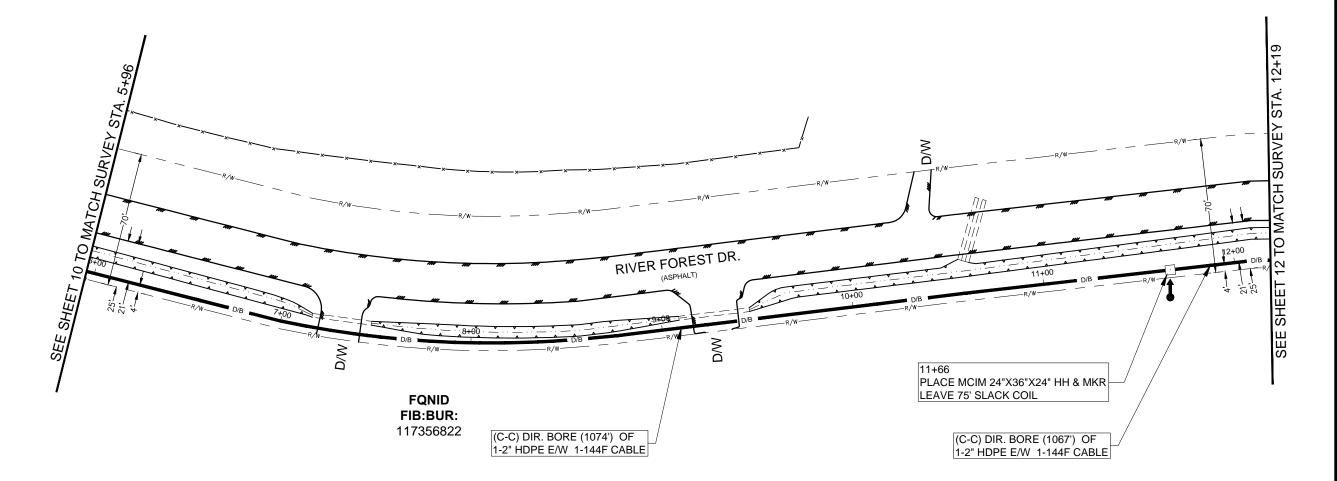
RICHMOND, TX FORT BEND COUNTY

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

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



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

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RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.

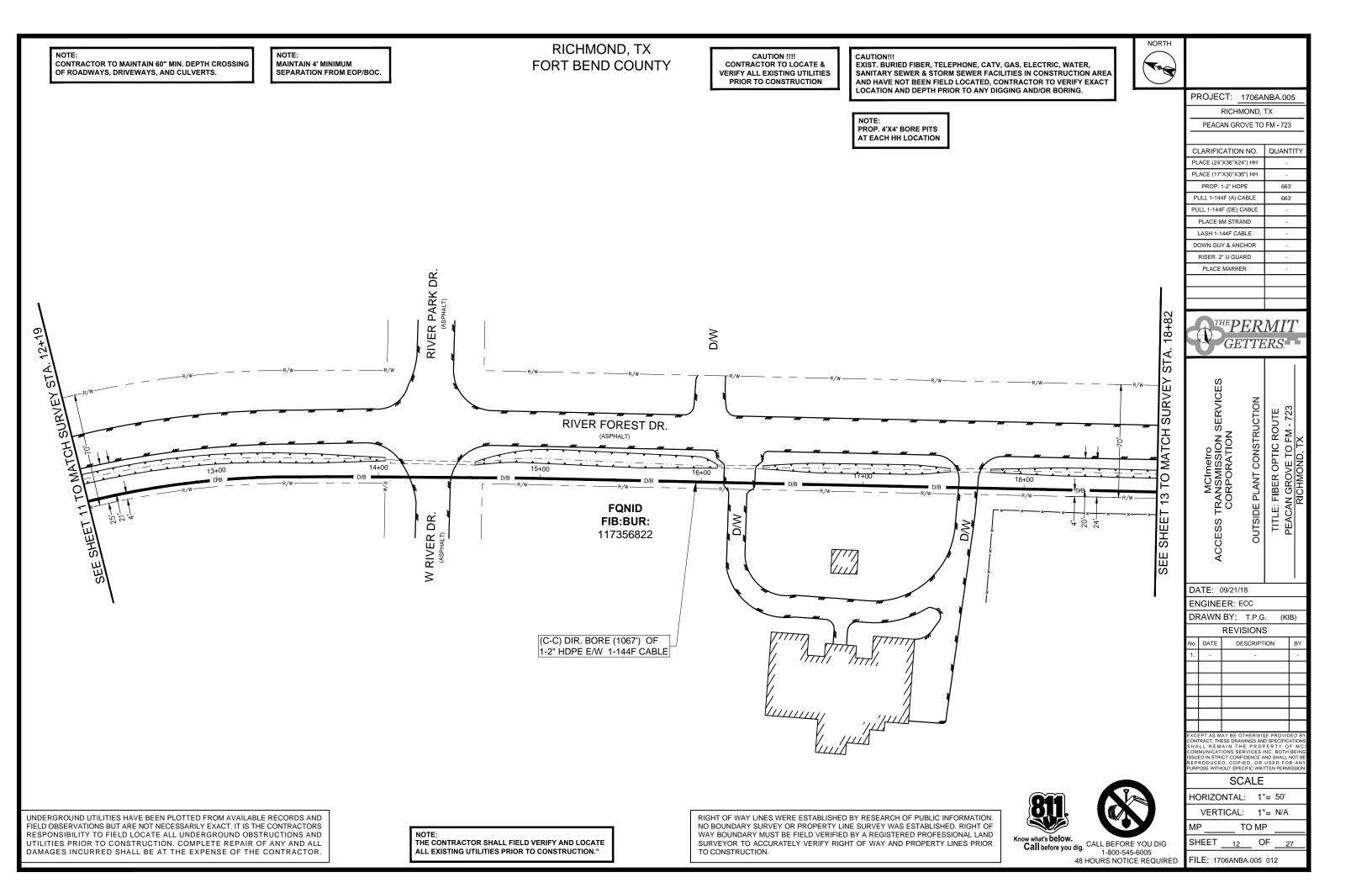


Know what's below.
Call before you dig.
CALL BEFORE YOU DIG 1-800-545-6005 48 HOURS NOTICE REQUIRED

SHEET

FILE: 1706ANBA.005 011

PROJECT: 1706ANBA.005						
RICHMOND, TX						
PEACAN GROVE TO FM - 723						
CLARIFICATION	NO.	QUA	ITN.	TY		
PLACE (24"X36"X24	4") HH		1			
PLACE (17"X30"X36	6") HH	-				
PROP. 1-2" HDF	PΕ	6	323'			
PULL 1-144F (A) C		6	98'			
PULL 1-144F (DE) C	ABLE		-			
PLACE 6M STRA	ND		-			
LASH 1-144F CAR			-			
DOWN GUY & ANC			-			
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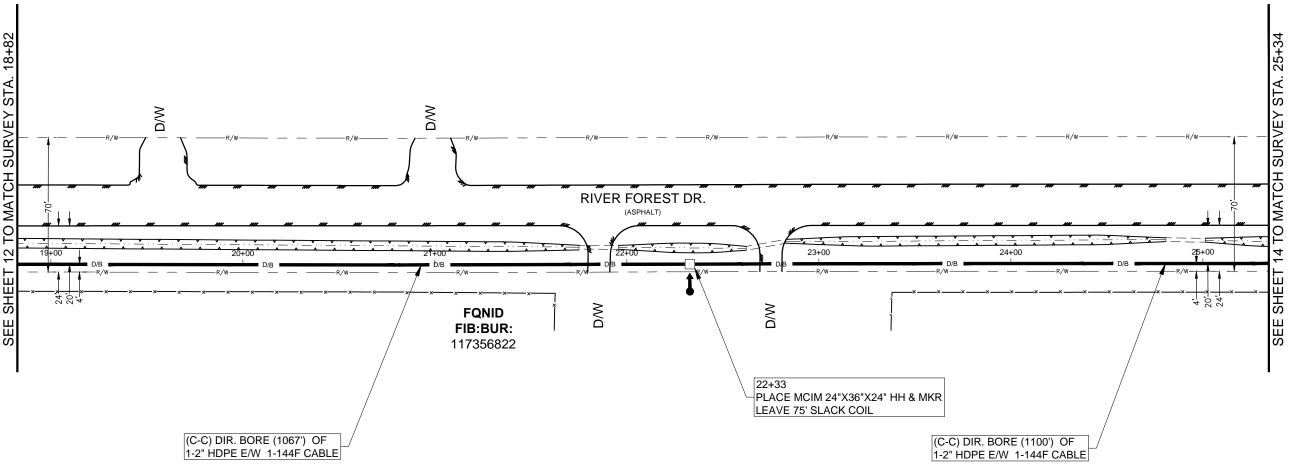


RICHMOND, TX NOTE: MAINTAIN 4' MINIMUM FORT BEND COUNTY SEPARATION FROM EOP/BOC.

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

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



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

NOTE: THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.



Know what's below.
Call before you dig.
CALL BEFORE YOU DIG

1-800-545-6005 48 HOURS NOTICE REQUIRED

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HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A

FILE: 1706ANBA.005 013

SHEET

TO MP

OF

RICHMOND, TX NOTE: CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING NOTE: MAINTAIN 4' MINIMUM CAUTION !!!! CONTRACTOR TO LOCATE & FORT BEND COUNTY EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA OF ROADWAYS, DRIVEWAYS, AND CULVERTS. SEPARATION FROM EOP/BOC. VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION SANITARY SEVER & 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: PROP. 4'X4' BORE PITS PEACAN GROVE TO FM - 723 AT EACH HH LOCATION PROP. 1-2" HDPE PLACE 6M STRAND LASH 1-144F CABLE RISER: 2" U GUARD PLACE MARKER MCImetro ACCESS TRANSMISSION SERVICES CORPORATION RIVER FOREST DR. **FQNID** FIB:BUR: 117356822 DATE: 09/21/18 ENGINEER: ECC DRAWN BY: T.P.G. (C-C) DIR. BORE (1100') OF 1-2" HDPE E/W 1-144F CABLE **SCALE** VERTICAL: 1"= N/A UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF NOTE: THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE

ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND

UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL

DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

PROJECT: 1706ANBA.005 RICHMOND, TX

CLARIFICATION NO. QUANTITY PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH 669' PULL 1-144F (A) CABLE 669' PULL 1-144F (DE) CABLE DOWN GUY & ANCHOR



OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX

REVISIONS

(KIB)

No.	DATE	DESCRIPTION	BY
1.		-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT, THESE DRAWINGS AND SPECIFICATION HALL REMAIN THE PROPERTY OF M GOMMUNICATIONS SERVICES INC. BOTH BEIN SSUED IN STRICT CONFIDENCE AND SHALL NOTE REPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

HORIZONTAL: 1"= 50'

TO MP SHEET OF

FILE: 1706ANBA.005 014 48 HOURS NOTICE REQUIRED

Know what's below.
Call before you dig.
CALL BEFORE YOU DIG

1-800-545-6005

WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.

NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC

RICHMOND, TX FORT BEND COUNTY

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

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PROJECT: 1706ANBA.005 RICHMOND, TX

PEACAN GROVE TO FM - 723

CLARIFICATION NO. QUANTITY

EPERMIT GETTERS.

605'

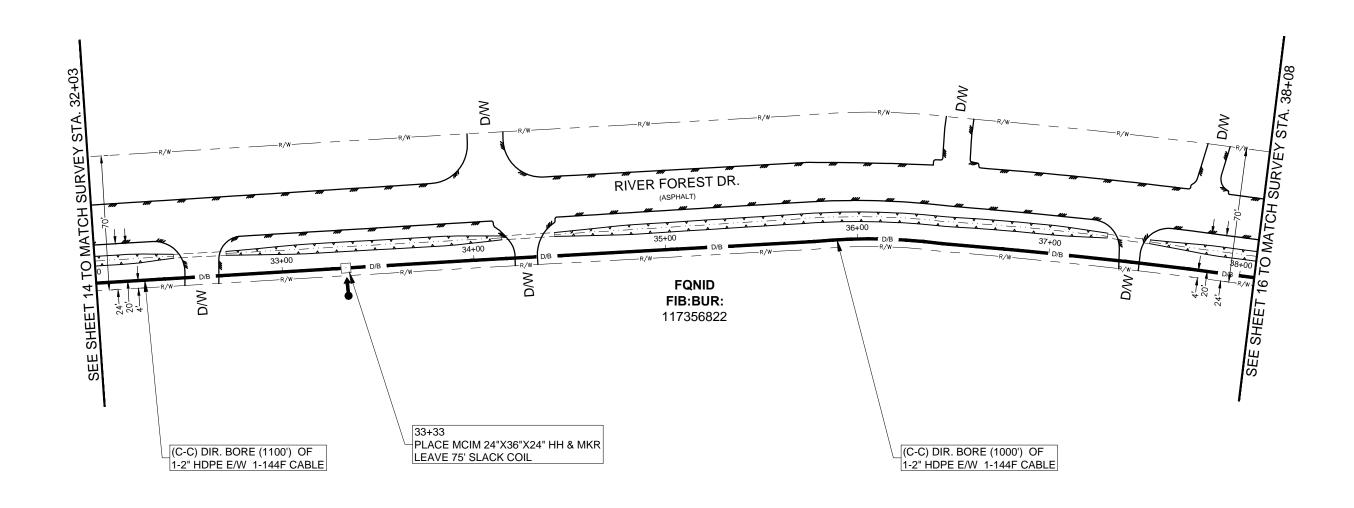
680'

PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH PROP. 1-2" HDPE

PULL 1-144F (A) CABLE

PULL 1-144F (DE) CABLE PLACE 6M STRAND LASH 1-144F CABLE DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER

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



Know what's below.

1-800-545-6005

48 HOURS NOTICE REQUIRED

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

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Call before you dig. CALL BEFORE YOU DIG

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX DATE: 09/21/18 ENGINEER: ECC DRAWN BY: T.P.G. (KIB) REVISIONS DESCRIPTION EXCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL REMAIN THE PROPERTY OF MA COMMUNICATIONS SERVICES INC. BOTH BEIN SUED IN STRICT CONFIDENCE AND SHALL NOT REPRODUCED, COPIED, OR USED FOR AN UPPOSE WITHOUT SPECIFIC WHISED FOR AN UPPOSE WITHOUT SPECIFIC WHISED FOR AN **SCALE** HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A

TO MP

FILE: 1706ANBA.005 015

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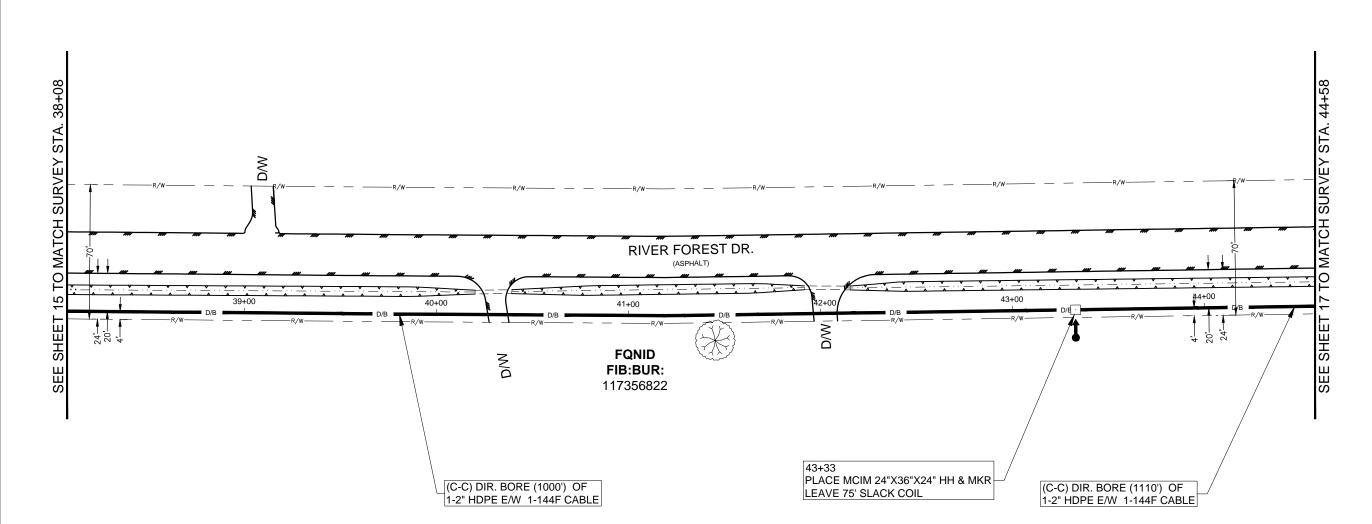
NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC.

RICHMOND, TX FORT BEND COUNTY

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

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CALL BEFORE YOU DIG

1-800-545-6005 48 HOURS NOTICE REQUIRED

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TO MP

FILE: 1706ANBA.005 016

SHEET

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NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC.

RICHMOND, TX FORT BEND COUNTY

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

NOTE: PROP. 4'X4' BORE PITS

AT EACH HH LOCATION

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.

PROJECT: 1706ANBA.005

PEACAN GROVE TO FM - 723 CLARIFICATION NO. QUANTITY PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH PROP. 1-2" HDPE 598' PULL 1-144F (A) CABLE 598' PULL 1-144F (DE) CABLE PLACE 6M STRAND LASH 1-144F CABLE DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER

RICHMOND, TX

HEPERMIT GETTERS.

> MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
> PEACAN GROVE TO FM - 723
> RICHMOND, TX

DATE: 09/21/18 ENGINEER: ECC

DRAWN BY: T.P.G.

REVISIONS No. DATE

DESCRIPTION

(KIB)

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

OF

TO MP

FILE: 1706ANBA.005 017

SHEET

E RIVER DR. RIVER FOREST DR. 48+00 M_{Q} **FQNID** MQFIB:BUR: 117356822 (C-C) DIR. BORE (1110') OF 1-2" HDPE E/W 1-144F CABLE

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

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Know what's below.
Call before you dig.
CALL BEFORE YOU DIG 1-800-545-6005 48 HOURS NOTICE REQUIRED

NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC.

RICHMOND, TX FORT BEND COUNTY

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

NOTE: PROP. 4'X4' BORE PITS

AT EACH HH LOCATION

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PROJECT: 1706ANBA.005

PEACAN GROVE TO FM - 723 CLARIFICATION NO. QUANTITY PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH 609' PULL 1-144F (A) CABLE 684' PULL 1-144F (DE) CABLE PLACE 6M STRAND LASH 1-144F CABLE DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER

RICHMOND, TX



MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX

DATE: 09/21/18

ENGINEER: ECC DRAWN BY: T.P.G.

REVISIONS

DESCRIPTION

(KIB)

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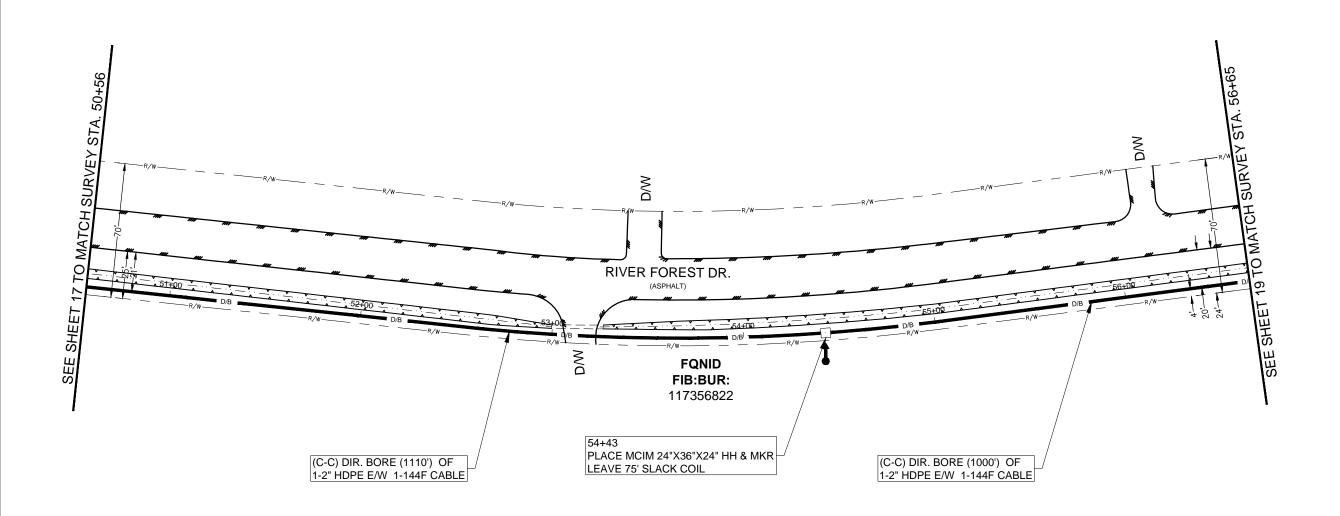
SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

TO MP SHEET OF

FILE: 1706ANBA.005 018



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

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Call before you dig. CALL BEFORE YOU DIG 1-800-545-6005 48 HOURS NOTICE REQUIRED

MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC.

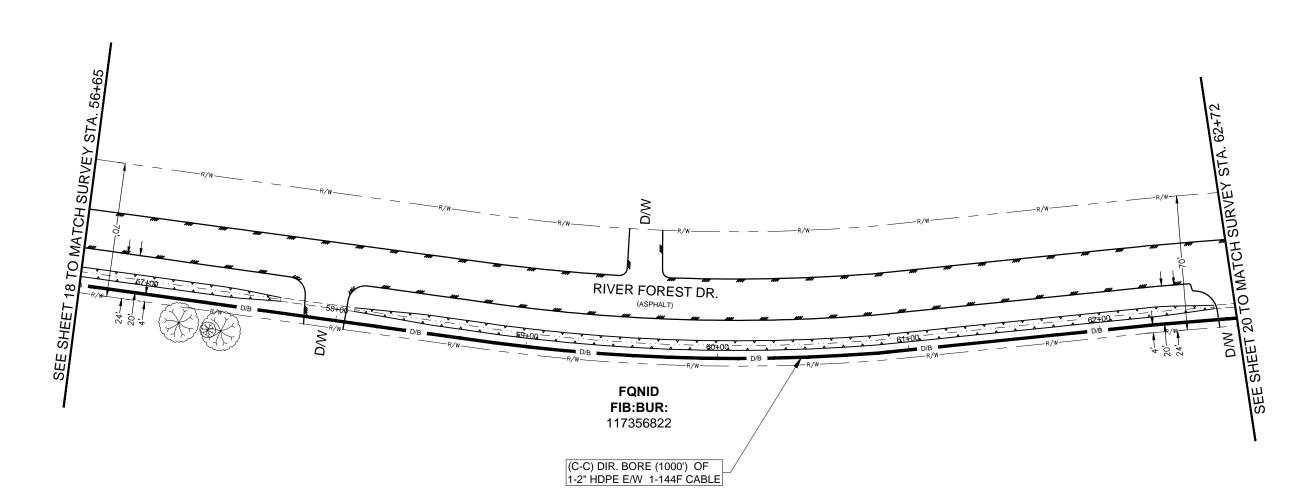
RICHMOND, TX FORT BEND COUNTY

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

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



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Call before you dig. CALL BEFORE YOU DIG

1-800-545-6005 48 HOURS NOTICE REQUIRED

PROJECT: 1706ANBA.005 RICHMOND, TX PEACAN GROVE TO FM - 723 CLARIFICATION NO. QUANTITY PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH PROP. 1-2" HDPE 607' PULL 1-144F (A) CABLE 607' PULL 1-144F (DE) CABLE PLACE 6M STRAND LASH 1-144F CABLE DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER HEPERMIT GETTERS. MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX DATE: 09/21/18 ENGINEER: ECC DRAWN BY: T.P.G. (KIB) REVISIONS No. DATE DESCRIPTION EXCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL RE MAY IN THE PROPERTY OF M. COMMUNICATIONS SERVICES INC. BOTH BEIN ISSUED IN STRUCT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR AN UPPROSE WITHOUT SPECIFIC WRITTEN PERMISSION **SCALE** HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A TO MP SHEET OF

FILE: 1706ANBA.005 019

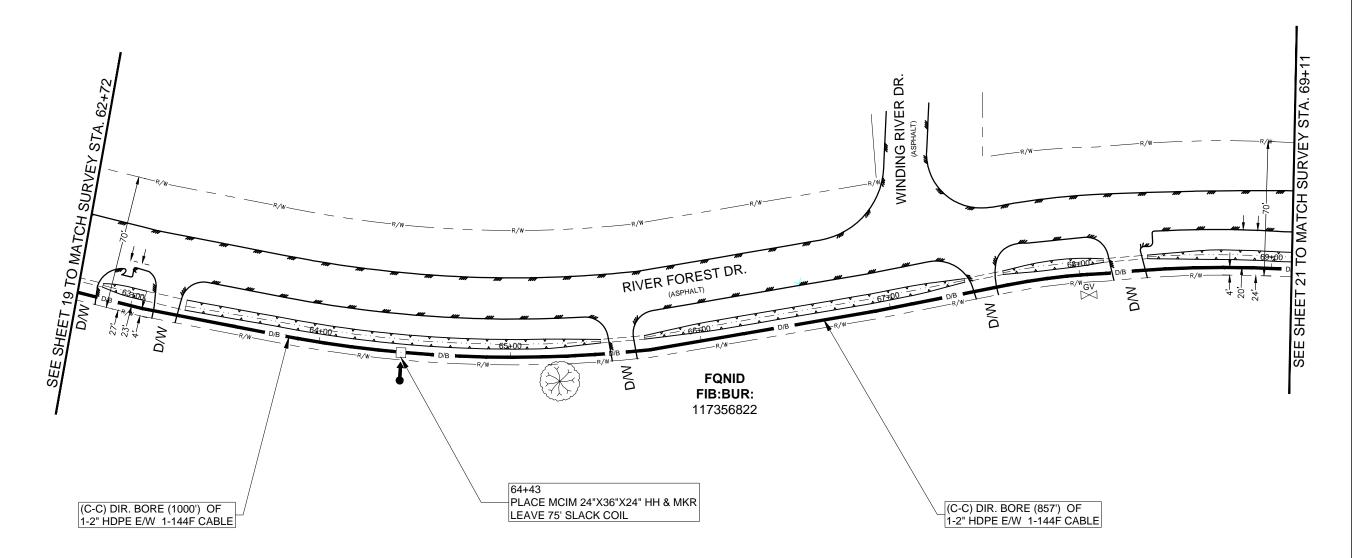
NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC

RICHMOND, TX FORT BEND COUNTY

CAUTION !!!! CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES
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Call before you dig. CALL BEFORE YOU DIG

1-800-545-6005 48 HOURS NOTICE REQUIRED

SHEET

FILE: 1706ANBA.005 020

OF

PEACAN GROVE TO FM - 723 CLARIFICATION NO. QUANTITY PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH 639' PULL 1-144F (A) CABLE 714' PULL 1-144F (DE) CABLE PLACE 6M STRAND LASH 1-144F CABLE DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER EPERMIT GETTERS. MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX DATE: 09/21/18 ENGINEER: ECC DRAWN BY: T.P.G. (KIB) REVISIONS DESCRIPTION EXCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL REMAIN THE PROPERTY OF MA COMMUNICATIONS SERVICES INC. BOTH BEIN SUED IN STRICT CONFIDENCE AND SHALL NOT REPRODUCED, COPIED, OR USED FOR AN UPPOSE WITHOUT SPECIFIC WHISED FOR AN UPPOSE WITHOUT SPECIFIC WHISED FOR AN **SCALE** HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A TO MP

PROJECT: 1706ANBA.005 RICHMOND, TX

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RICHMOND, TX FORT BEND COUNTY

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

NOTE: PROP. 4'X4' BORE PITS

AT EACH HH LOCATION

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PEACAN GROVE TO FM - 723 CLARIFICATION NO. QUANTIT' PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH 558' PULL 1-144F (A) CABLE 633' PULL 1-144F (DE) CABLE PLACE 6M STRAND LASH 1-144F CABLE DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER

PROJECT: 1706ANBA.005 RICHMOND, TX



MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND. TX

DATE: 09/21/18 ENGINEER: ECC DRAWN BY: T.P.G.

REVISIONS

DESCRIPTION

(KIB)

EXCÉPT AS MAY BE OTHERWISE PROVIDED LE CONTRACT, THESE DRAWINGS AND SECINICATION SHALL RE MAIN THE PROPERTY OF M COMMUNICATIONS SERVICES INC. BOTH BEIN ISSUED IN STRUCT CONFIDENCE AND SHALL NOTI REPRODUCED, COPIED, OR USED FOR AN DIRPOSE WITHOUT SPECIFIC WRITTEN FEMILISM.

SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

TO MP SHEET OF

FILE: 1706ANBA.005 021

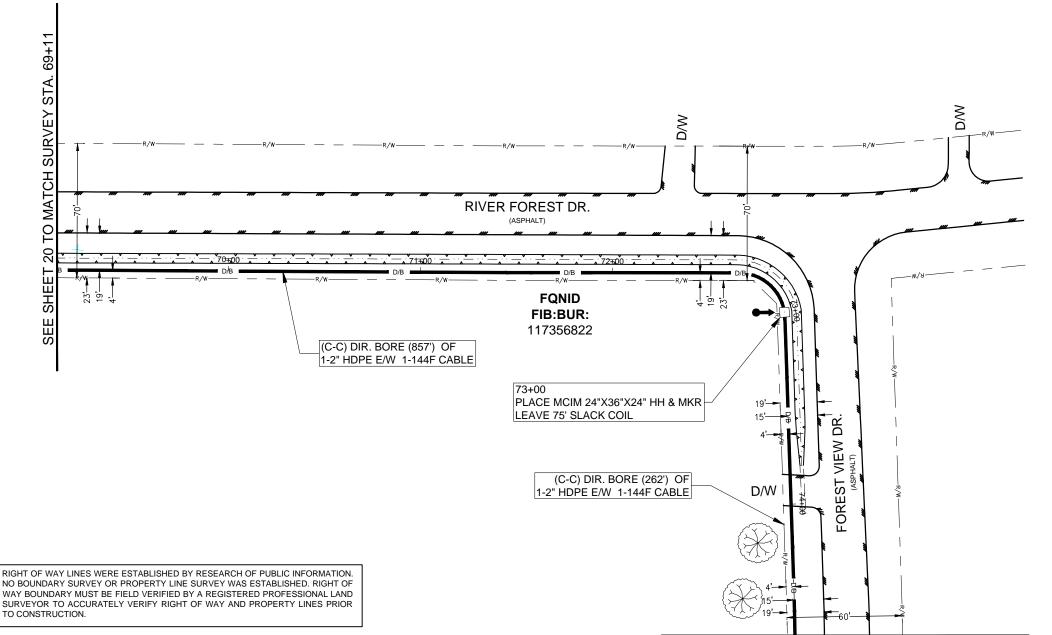
Know what's below.

Call before you dig. CALL BEFORE YOU DIG

1-800-545-6005

48 HOURS NOTICE REQUIRED

SEE SHEET 22 TO MATCH SURVEY STA. 74+69 NOTE: THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."



FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS

RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND

UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL

DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC

RICHMOND, TX FORT BEND COUNTY

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

AT EACH HH LOCATION

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: PROP. 4'X4' BORE PITS

CLARIFICATION NO. QUANTITY PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH PROP. 1-2" HDPE 115' PULL 1-144F (A) CABLE 190' PULL 1-144F (DE) CABLE PLACE 6M STRAND 454' LASH 1-144F CABLE 554' DOWN GUY & ANCHOR RISER: 2" U GUARD

PROJECT: 1706ANBA.005 RICHMOND, TX

PEACAN GROVE TO FM - 723

 $^{ ext{ iny PERMIT}}$ GETTERS.

PLACE MARKER

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND. TX

ENGINEER: ECC DRAWN BY: T.P.G. **REVISIONS**

DATE: 09/21/18

DESCRIPTION

(KIB)

EXCEPT AS MAY BE OTHERWISE PROVIDED IS CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL REAM AIN THE PROPERTY OF M COMMUNICATIONS SERVICES INC. BOTH BEIN SSUED IN STRICT CONFIDENCE AND SHALL NOTI REPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSIC

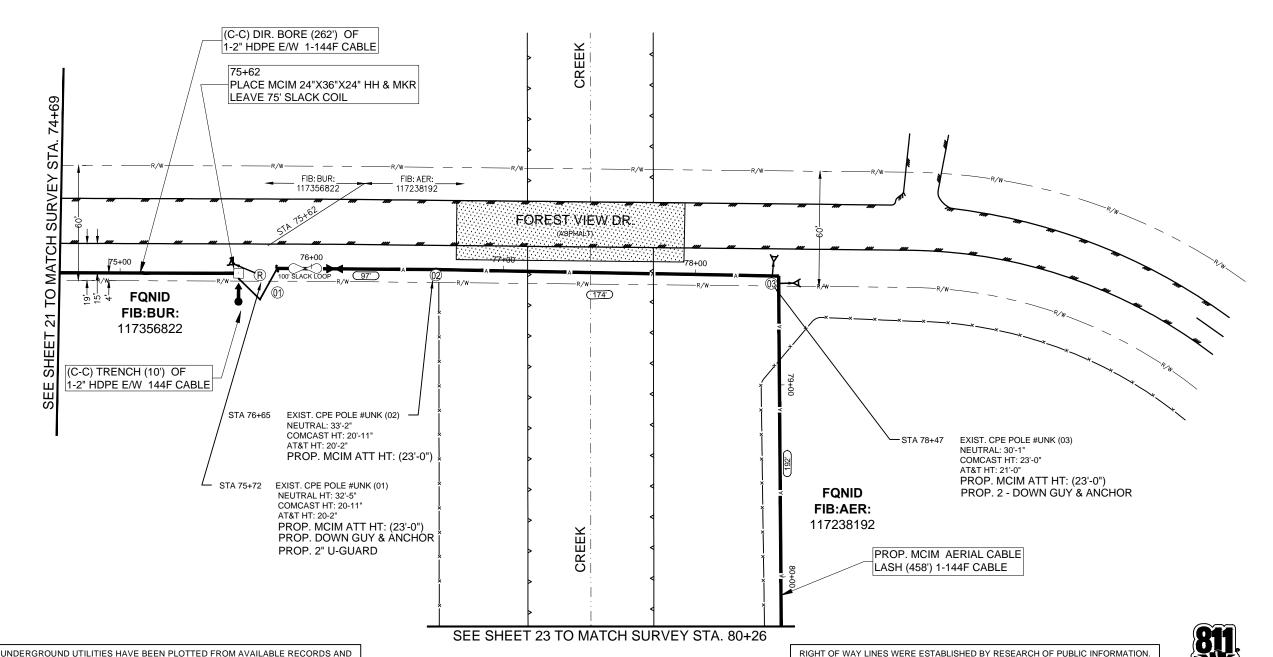
SCALE

HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A

TO MP

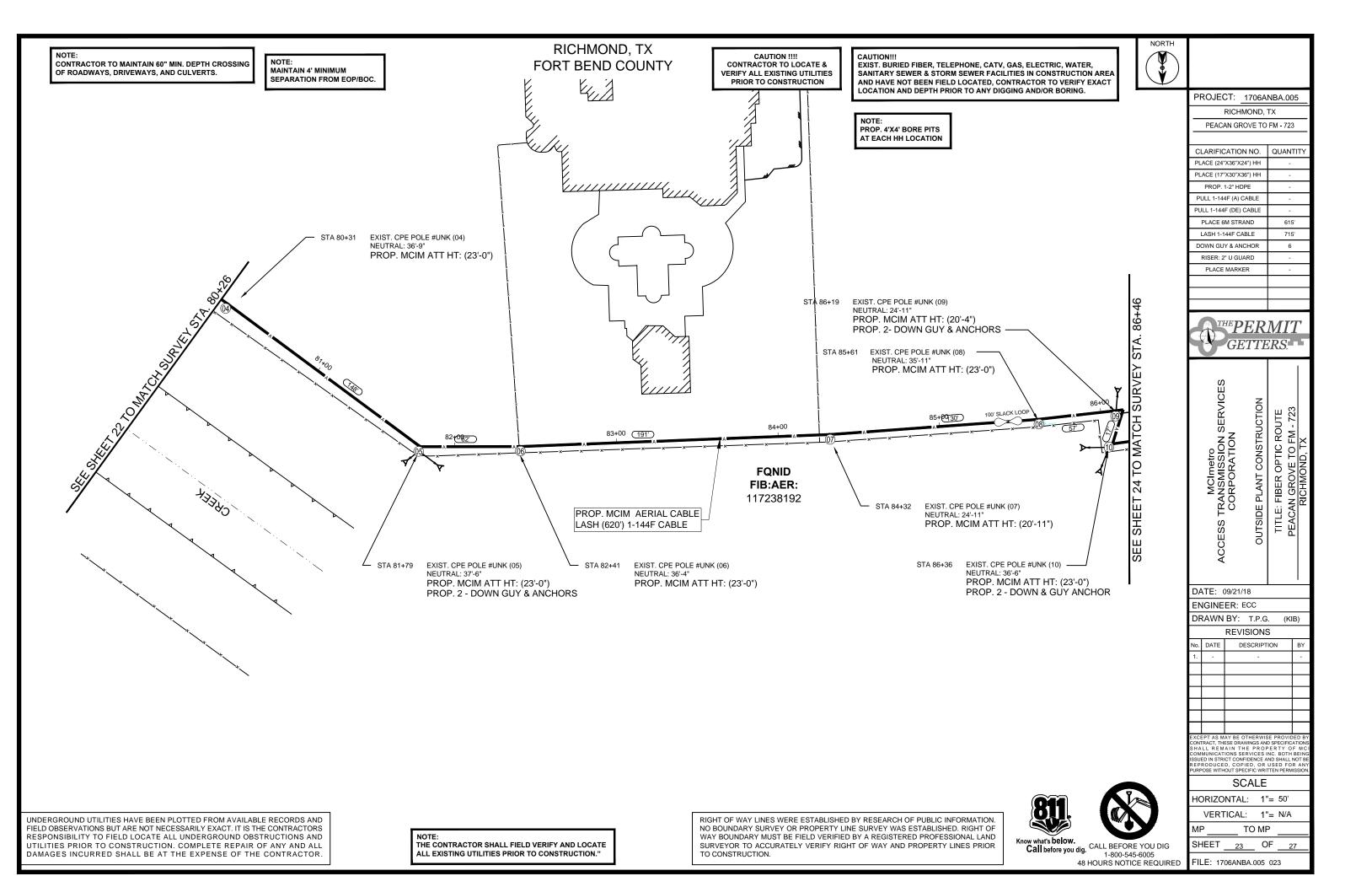
SHEET OF FILE: 1706ANBA.005 022

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND Know what's below. Call before you dig. CALL BEFORE YOU DIG SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION. 1-800-545-6005 48 HOURS NOTICE REQUIRED



NOTE: THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE

ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."



RICHMOND, TX NOTE: CONTRACTOR TO MAINTAIN 60" MIN. DEPTH CROSSING NOTE: MAINTAIN 4' MINIMUM FORT BEND COUNTY CONTRACTOR TO LOCATE & EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER, OF ROADWAYS, DRIVEWAYS, AND CULVERTS. SEPARATION FROM EOP/BOC. VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION 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. PROJECT: 1706ANBA.005 RICHMOND, TX NOTE: PROP. 4'X4' BORE PITS PEACAN GROVE TO FM - 723 AT EACH HH LOCATION CLARIFICATION NO. QUANTITY PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH PROP. 1-2" HDPE PULL 1-144F (A) CABLE PULL 1-144F (DE) CABLE PLACE 6M STRAND LASH 1-144F CABLE DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER TCH SURVEY STA. 86+46 **PERMIT MCImetro ACCESS TRANSMISSION SERVICES CORPORATION 92+00 (404') 91+00 90+00 89+00 (311') TO MATCH 87+00 23 TO MA **FQNID** FIB:AER: 117238192 PROP. MCIM AERIAL CABLE SEE SHEET LASH (651') 1-144F CABLE EXIST. CPE POLE #UNK (12) STA 90+06 POWER RISER DRIP LOOP: 26'-5" PROP. MCIM ATT HT: (22'-5") EXIST. CPE POLE #UNK (11) - STA 86+95 NEUTRAL: 35'-11" PROP. MCIM ATT HT: (23'-0") DATE: 09/21/18 ENGINEER: ECC DRAWN BY: T.P.G. REVISIONS No. DATE DESCRIPTION EXCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL RE MAY IN THE PROPERTY OF M. COMMUNICATIONS SERVICES INC. BOTH BEIN ISSUED IN STRUCT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR AN UPPROSE WITHOUT SPECIFIC WRITTEN PERMISSION **SCALE** HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS

NOTE: THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE

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RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND

UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL

DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.





Call before you dig. CALL BEFORE YOU DIG 1-800-545-6005

48 HOURS NOTICE REQUIRED

SHEET FILE: 1706ANBA.005 024

651'

651'

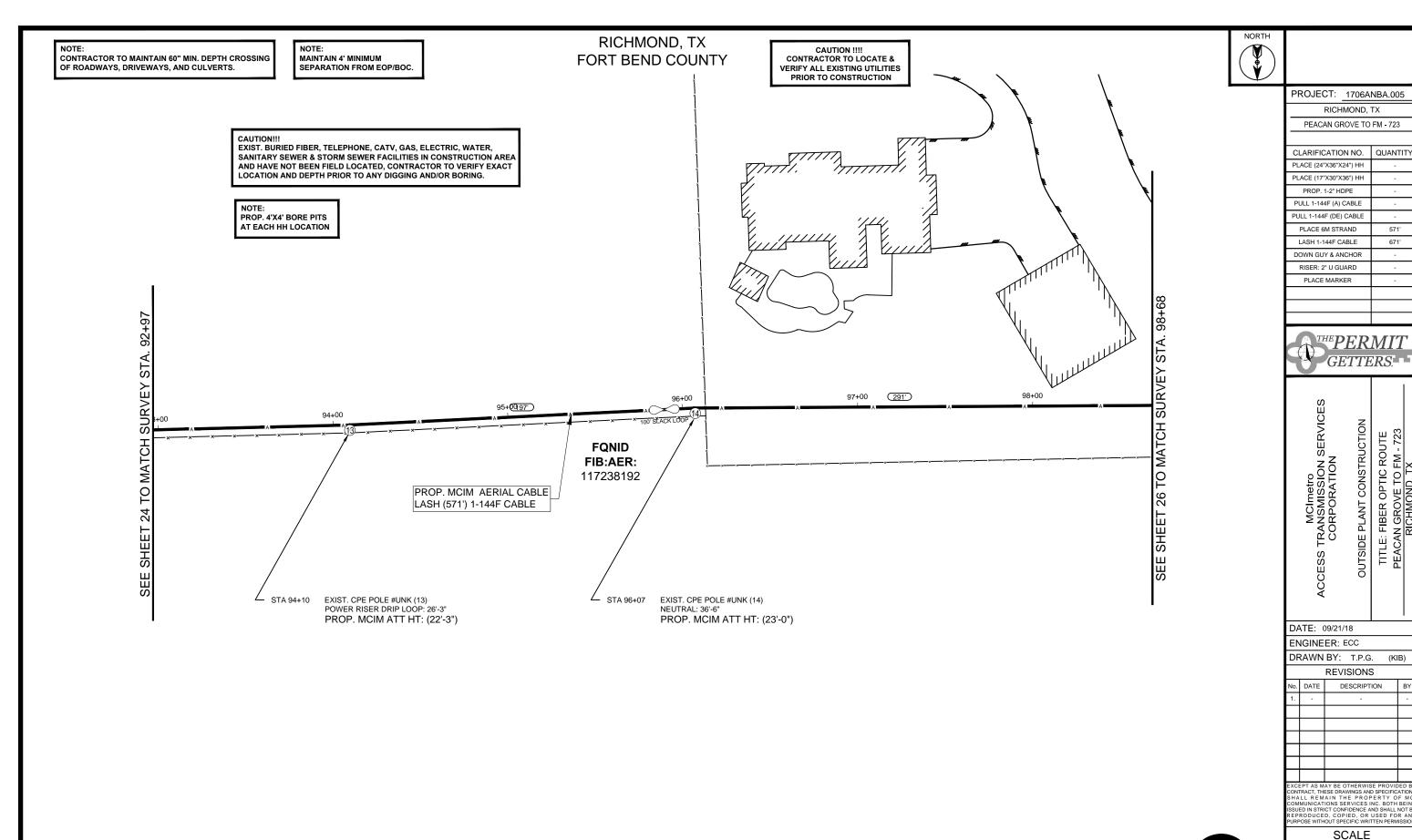
OUTSIDE PLANT CONSTRUCTION

TO MP

OF

TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX

(KIB)



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

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Call before you dig. CALL BEFORE YOU DIG 1-800-545-6005 48 HOURS NOTICE REQUIRED

TO MP SHEET OF FILE: 1706ANBA.005 025

HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

SEE SHEET 25 TO MATCH SURVEY STA. 98+68

RICHMOND, TX FORT BEND COUNTY

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

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.

 \Longrightarrow

PROJECT: 1706ANBA.005 RICHMOND, TX PEACAN GROVE TO FM - 723 CLARIFICATION NO. QUANTITY PLACE (24"X36"X24") HH PLACE (17"X30"X36") HH PROP. 1-2" HDPE PULL 1-144F (A) CABLE 790' PULL 1-144F (DE) CABLE PLACE 6M STRAND 232' LASH 1-144F CABLE 332' DOWN GUY & ANCHOR RISER: 2" U GUARD PLACE MARKER $^{ ext{ iny PERMIT}}$ GETTERS. MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
PEACAN GROVE TO FM - 723
RICHMOND, TX

> DATE: 09/21/18 ENGINEER: ECC DRAWN BY: T.P.G.

REVISIONS DESCRIPTION No. DATE

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(KIB)

SCALE

HORIZONTAL: 1"= 50' VERTICAL: 1"= N/A

OF 27

TO MP

FILE: 1706ANBA.005 026

SHEET

(C-C) DIR. BORE (123') OF 1-3" 3CELL MAXCELL INNER-DUCT E/W 1-144F CABLE (C-C) TRENCH (10') OF THRU EXIST. CUSTOMER 1-4" SCH80 PVC 1-2" HDPE E/W 144F CABLE CONDUIT 101+10 102+33 Чмсім ммнн EXIST. VZW HH LEAVE 75' SLACK COIL (C-C) PULL (46') OF 1-3" 3CELL MAXCELL INNÉR-DUCT É/W 1-144F CABLE THRU EXIST. CUSTOMER 1-4" SCH80 PVC CONDUIT DRIVEWAY _____ DRIVEWAY **FQNID** FIB:BUR: 117356821 FIB:BUR: 117356823 FIB: BUR: 117356821 117356823 102+79 (C-C) PULL (399') OF 1-3" 3CELL MAXCELL EXIST. VZW HH INNER-DUCT E/W 1-144F CABLE THRU EXIST. CUSTOMER 1-4" SCH80 PVC **FQNID** CONDUIT EXIST. CPE POLE #UNK (17) FIB:AER: NEUTRAL: 25'-11" 117238192 PROP. MCIM ATT HT: (21'-11") 106+78 PROP. DOWN GUY & ANCHOR EXIST. VZW HH PROP. 2" U-GUARD EXIST. CPE POLE #UNK (16) STA 100+52 NEUTRAL: 35'-8" PROP. MCIM ATT HT: (23'-0") (C-C) PULL (131') OF 1-3" 3CELL MAXCELL PROP. MCIM AERIAL CABLE INNÉR-DUCT E/W 1-144F CABLE LASH (232') 1-144F CABLE THRU EXIST. CUSTOMER 1-4" SCH80 PVC CONDUIT EXIST. CPE POLE #UNK (15) POWER RISER: 22'-11' PROP. MCIM ATT HT: (18'-11") RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED. RIGHT OF WAY BOUNDARY MUST BE FIELD VERIFIED BY A REGISTERED PROFESSIONAL LAND

> THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION."

SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR

Know what's below

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NOTE: MAINTAIN 4' MINIMUM SEPARATION FROM EOP/BOC

RICHMOND, TX FORT BEND COUNTY

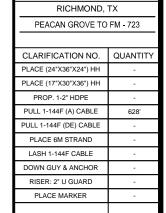
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES
PRIOR TO CONSTRUCTION

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AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.

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





PROJECT: 1706ANBA.005

$^{ ext{ iny PERMIT}}$ GETTERS.

DATE: 09/21/18 ENGINEER: ECC DRAWN BY: T.P.G. (KIB) REVISIONS

No. DATE DESCRIPTION

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

TO MP SHEET OF

FILE: 1706ANBA.005 027

103+00 DRIVEWAY 111+00 112+00 PROP. CUSTOMER MMHH 26 TO MATC **FQNID** SEE SHEET FIB:BUR: (C-C) PULL (569') OF 1-3" 3CELL MAXCELL INNER-DUCT E/W 1-144F CABLE 117356823 THRU EXIST. CUSTOMER 1-4" SCH80 PVC 113+84 CONDUIT EXIST. VZW HH (C-C) TRENCH (9') OF 1-2" HDPE E/W 144F CABLE FIBER DEMARCATION ENCLOSURE MOUNTED TO EQUIP. (PLACE 50' SLACK COIL) (TO BE PLACE BY OTHERS)

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

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