



**REVIEW BY FORT BEND COUNTY  
COMMISSIONERS COURT**

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

- ☒ Right of Way Permit  
☐ Commercial Driveway Permit

Permit No: 2018-23863

**Applicant:** MCI Metro Access Transmission Services, Corp

**Job Location Site:** Canal Road , Richmond, TX 77406

**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 inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

**Notes:**

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
  - a. 48 hours in advance of construction start up, and
  - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.
4. This permit applies to work performed within right-of-ways owned and maintained by Fort Bend County only, 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 Mayers, seconded by Commissioner Patterson, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

**Signature**

Presented to Commissioners Court and approved.

By: Sean Eglinton

County Engineer

Date Recorded 11-13-2018 Comm. Court No. 12i

N/A

Clerk of Commissioners Court

By:                     

Drainage District Engineer/Manager

By: Andrea Wilkins

Deputy



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

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

☒ Right of Way Permit  
☐ Commercial Driveway Permit  
Permit No: 2018-23863

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:**

- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | a. Name of road, street, and/or drainage ditch affected. |
| <input checked="" type="checkbox"/> | b. Vicinity map showing course of directions             |
| <input checked="" type="checkbox"/> | c. Plans and specifications                              |

**(2) BOND:**

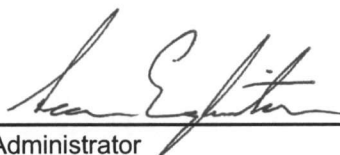
- |                                     |  |                     |                     |
|-------------------------------------|--|---------------------|---------------------|
| <input type="checkbox"/>            | County Attorney, approval when applicable. |                     |                     |
| <input checked="" type="checkbox"/> | Perpetual bond currently posted.           | Bond No: [REDACTED] | Amount: \$50,000.00 |
| <input type="checkbox"/>            | Performance bond submitted.                | Bond No: _____      | Amount: _____       |
| <input type="checkbox"/>            | 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.**

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

10/29/2018

\_\_\_\_\_  
Date

MCImetro  
ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION  
FIBER OPTIC CABLE ROUTE

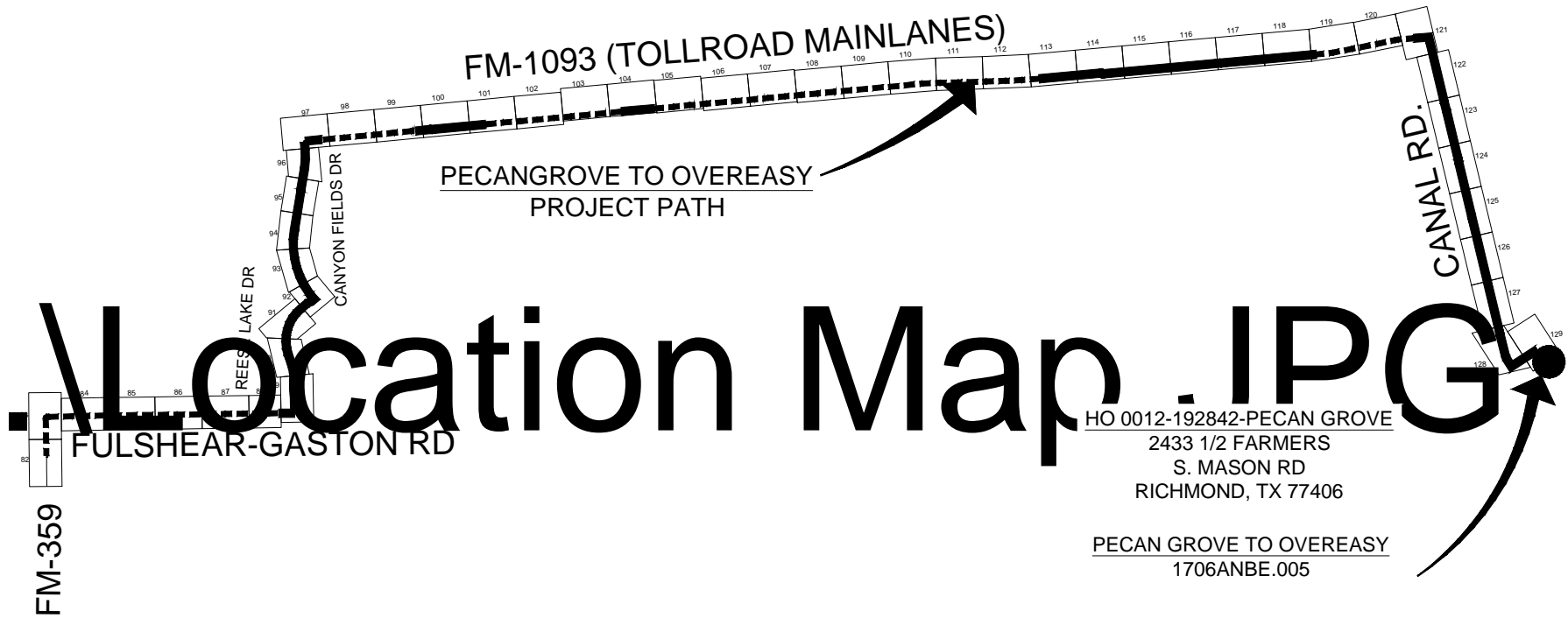
ECC FIBER BUILD: 1706ANBE.005  
PECANGROVE TO OVEREASY (PART 3)  
RICHMOND, TX

SITE CODE: HODATX

PROJECT STATUS: CONSTRUCTION

DATE: 10/02/18

LOCATION MAP  
RICHMOND, TX  
FORT BEND COUNTY



HO 0012-192842-PECAN GROVE  
2433 1/2 FARMERS  
S. MASON RD  
RICHMOND, TX 77406

PECAN GROVE TO OVEREASY  
1706ANBE.005

MAP LINE LEGEND

- PROPOSED BURIED CABLE
- ===== PROPOSED AERIAL CABLE

PROJECT: 1706ANBE.005  
RICHMOND, TX  
PECAN GROVE TO OVER EASY



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PECANGROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18  
ENGINEER: L. STALCUP  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY  
CONTRACT, THESE DRAWINGS AND SPECIFICATIONS  
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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  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 2 OF 129  
FILE: 1706ANBE.005 02 A

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

TEXAS ONE CALL SYSTEM (UTILITY LOCATES) 1-800-545-6005

NON MEMBERS:

CITY GOVERNMENT

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: 1706ANBE.005

RICHMOND, TX

PEACAN GROVE TO OVER EASY



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
PEACANGROVE TO OVEREASY

RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 3 OF 129

FILE: 1706ANBE.005 03 A

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.
3.

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.
5.

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.
6.

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.
9.

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.

2.

3.

4.

5.

6.

7.

1.

2.

3.

4.

5.

6.

7.

1. STATION

2. LOCATION

3. CLARIFICATION NO. AND MINIMUM COVER

4. 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)
- 200

210

PLACE CONDUIT
- 212

PLACE HIGH DENSITY POLYETHYLENE (HDPE)
- 213

ROCK ADDER
- 214

SLURRY BACKFILL ADDER
- 215

EXPOSE CONDUIT
- 216

EXPOSE CONDUIT AND RELOCATE
- 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
- 315

DETACH CONDUIT FROM WALL OR STRUCTURE
- 320

CORE BORE
- 330

ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE
- 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
- 620

EMBEDMENT PLOW
- 630

DIRECTIONAL BORE
- 700

710

PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM
- WATER CROSSING SIGNS
- 711

PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING
- 713

HANDHOLES/MANHOLE
- 712

REMOVE BURIED CABLE MARKER POST/HARDWARE
- 714

REMOVE CONCRETE BURIED CABLE MARKER POST

PROJECT: 1706ANBE.005

RICHMOND, TX

PEACAN GROVE TO OVER EASY



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

PEACANGROVE TO OVEREASY

RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS

No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP TO MP

SHEET 4 OF 129

FILE: 1706ANBE.005 04 A

SYMBOLS KEY

DIRECT BURIED CABLE

AERIAL CABLE

SUBMARINE CABLE

FOGWIRE CABLE

DIRECT BURIED HDPE

PVC OR SPLIT PVC CONDUIT

BSP/GSP OR SPLIT BSP/GSP CONDUIT

STEEL CASING

REMOVE AND RESTORE ASPHALT OR CONCRETE  
(WIDTH AS INDICATED)

CORE BORE

JACK AND BORE

DIRECTIONAL BORE (& PLACE CONDUIT)

FUTURE CABLE

REMOVE CABLE

TO BE REMOVED OR ABANDONED  
(SHOWN FOR HDPE)

AERIAL UTILITY (ELECTRIC)

UNDERGROUND UTILITY (TELEPHONE)

MAIN TRACKS

AUXILLARY TRACKS

CENTERLINE

RIGHT-OF-WAY

EDGE OF ROADWAY (GENERIC)

EDGE OF PAVEMENT

BACK OF CURB

DITCH LINE

TAX, CITY, COUNTY, OR STATE BOUNDARY LINE

PROPERTY LINE

FENCE LINE

GUARDRAIL

TOP OF SLOPE

TOE OF SLOPE

EXISTING

PROPOSED

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

MILE POST MARKER  
NOTE:  
DASHED = NOT FOUND IN FIELD

PERMIT TRACKING FORM IDENTIFIER

ROCK PROBE (DEPTH AS INDICATED)

UTILITY COVER DEPTH

HANDHOLE, MANHOLE OR PULLBOX

POLE

ANCHOR ONLY

GUY ONLY

OVERHEAD GUY (ARROW IN DIRECTION OF PULL)

ANCHOR AND GUY

SIDEWALK ANCHOR AND GUY

FOREIGN ANCHOR AND GUY

PUSH BRACE (EXISTING POLE)

ACCOUNT CODE CHANGE (BURIED TO AERIAL)

RISER ATTACHMENT LOCATION

BOND AND GROUND

CULVERT (SIZE AS INDICATED)

BRIDGE

WATER METER

GAS VALVE

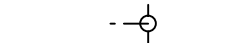
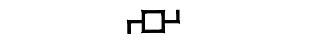
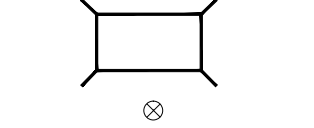
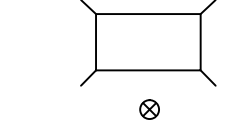
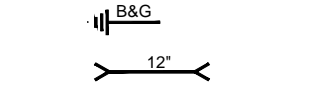
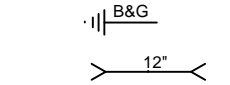
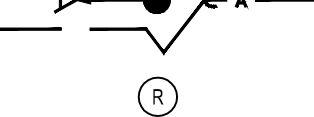
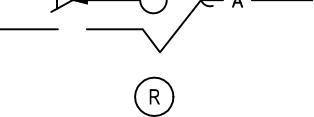
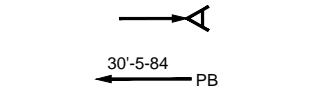
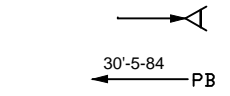
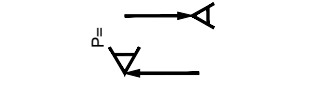
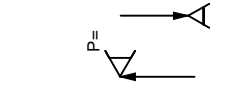
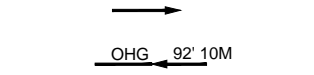
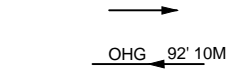
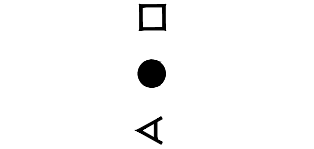
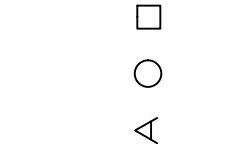
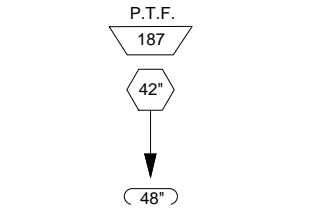
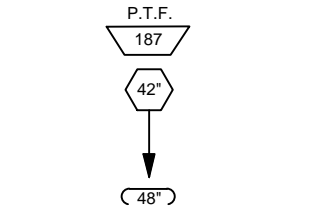
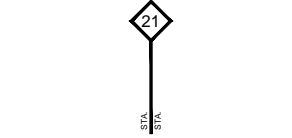
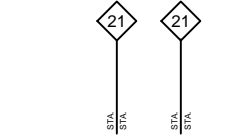
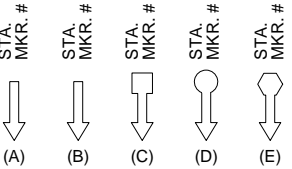
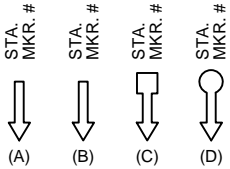
FIRE HYDRANT

RAILROAD SIGNAL CONTROL BOX

CAUTION NOTE

EXISTING

PROPOSED



PROJECT: 1706ANBE.005

RICHMOND, TX

PEACAN GROVE TO OVER EASY



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACANGROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

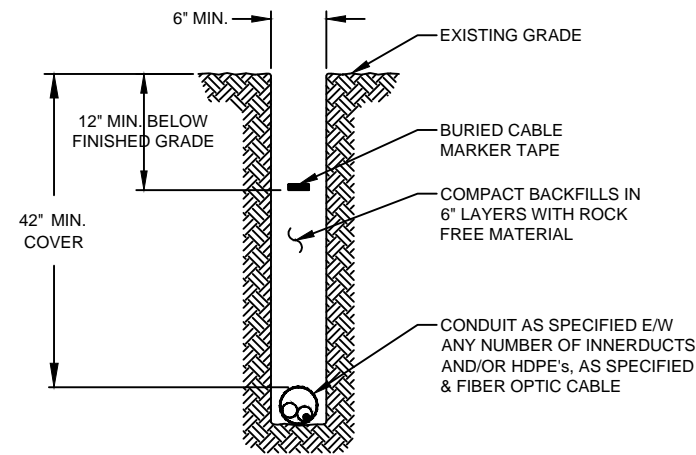
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SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 6 OF 129  
FILE: 1706ANBE.005 06 A

## CONSTRUCTION DETAILS

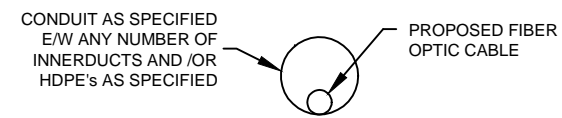
TYPICAL DETAIL "A"

TRENCH &amp; PLACE CONDUIT



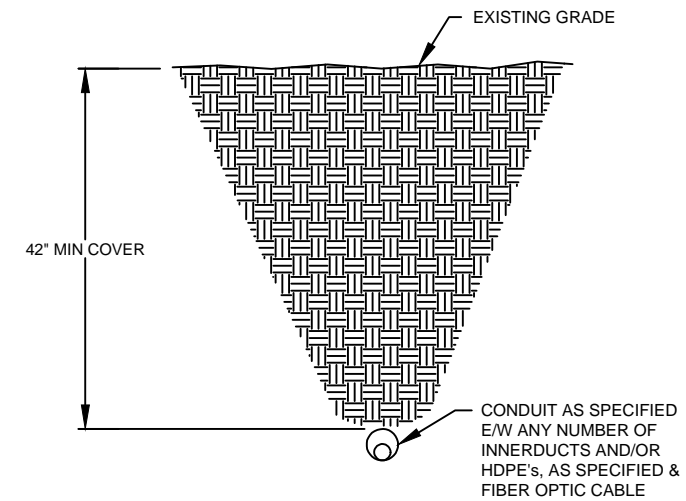
### TYPICAL DETAIL "B"

### CROSS SECTION OF PROPOSED HDPE



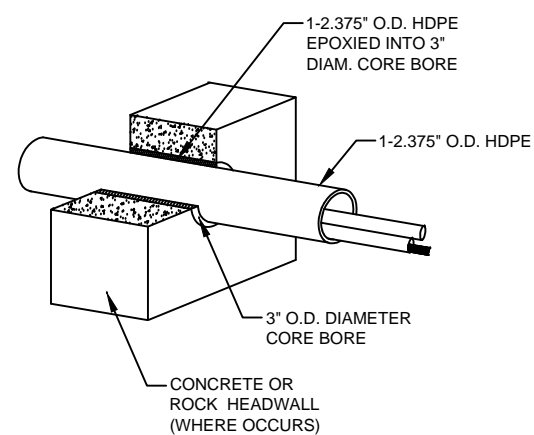
TYPICAL DETAIL "C"

### DIRECTIONAL BORE CROSS SECTION FOR CONDUIT



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.

PROJECT: 1706ANBE.005
RICHMOND, TX
PEACAN GROVE TO OVER EASY

[illegible]

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE PEACANGROVE TO OVEREASY RICHMOND, TX
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DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

[illegible]

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SCALE

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VERTICAL: 1"= N/A

MP	TO MP
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SHEET 7 OF 129

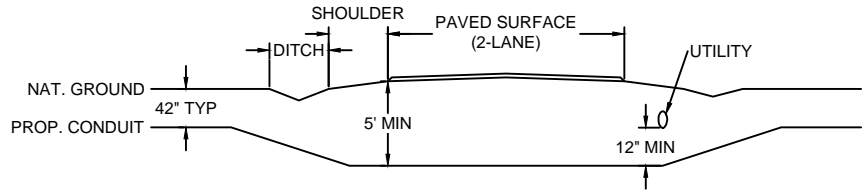
FILE: 1706ANBE.005 07 A



TYPICAL CROSSING PROFILE DETAILS: UNDERGROUND

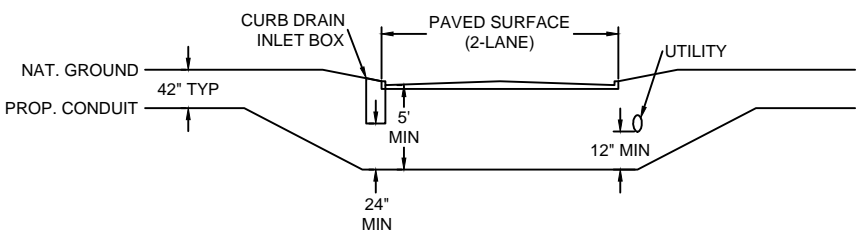
TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



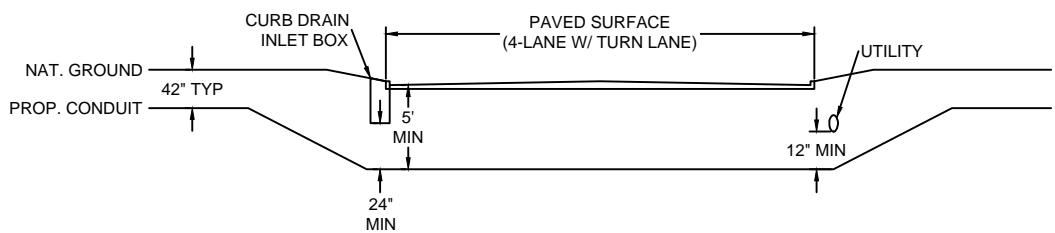
TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



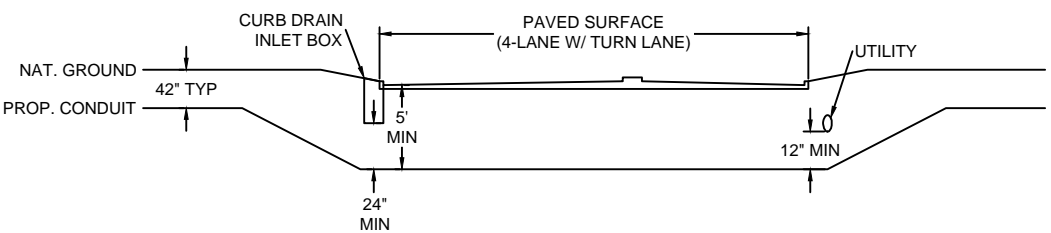
TYPICAL DETAIL "C"

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



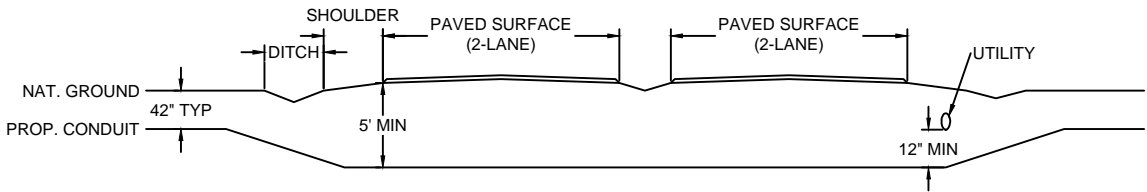
TYPICAL DETAIL "D"

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



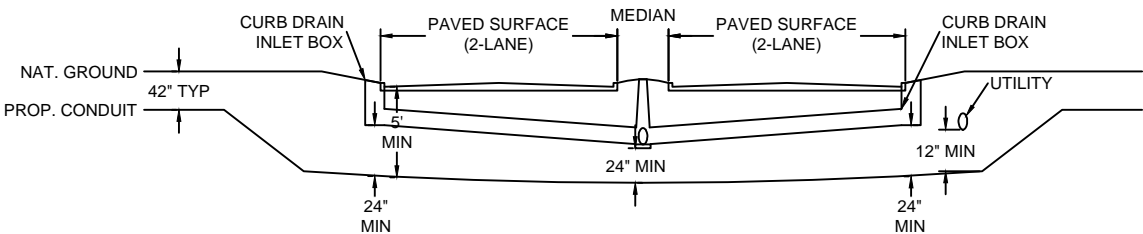
TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD



PROJECT: 1706ANBE.005

RICHMOND, TX

PEACAN GROVE TO OVER EASY



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

PEACANGROVE TO OVEREASY

RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS

No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

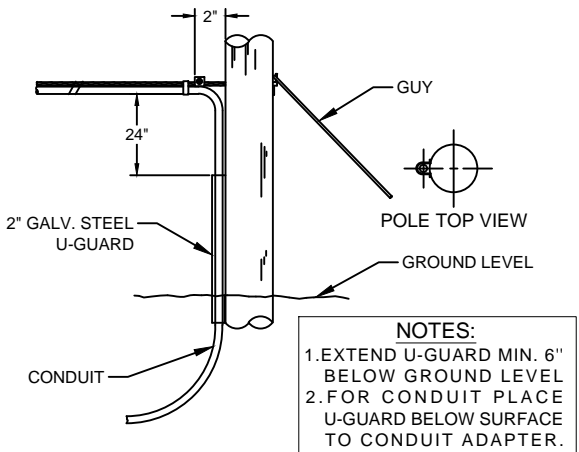
SHEET 7A OF 129

FILE: 1706ANBE.005 07AA

GENERAL AERIAL CONSTRUCTION DETAILS

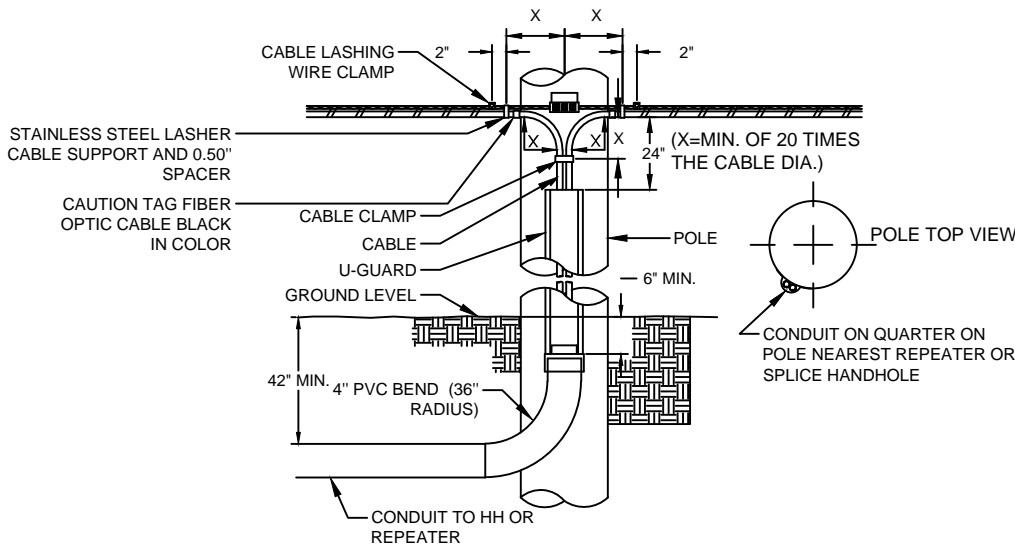
TYPICAL DETAIL "A"

POLE ARRANGEMENT FOR  
AERIAL TO BURIED



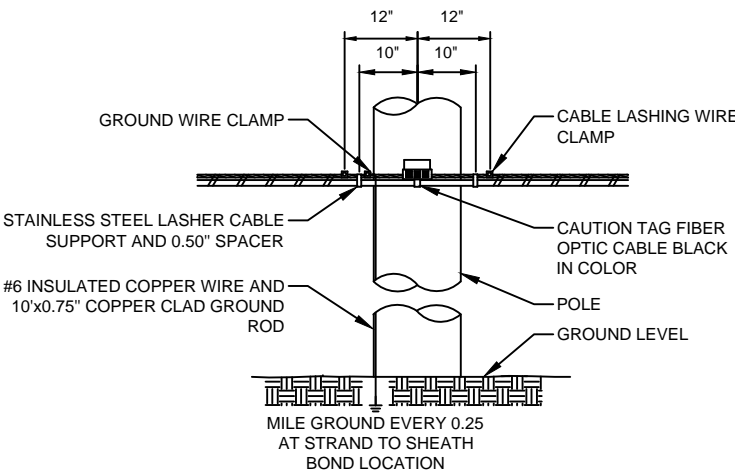
TYPICAL DETAIL "B"

POLE ARRANGEMENT FOR REPEATER  
OR HANDHOLE LOCATION



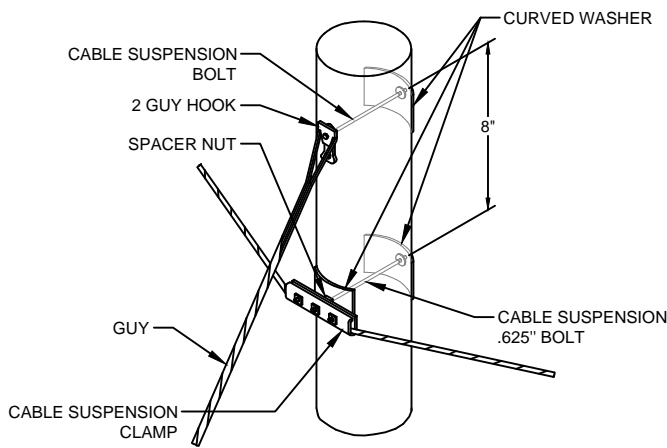
TYPICAL DETAIL "C"

TYPICAL CABLE & HARDWARE  
INSTALLATION



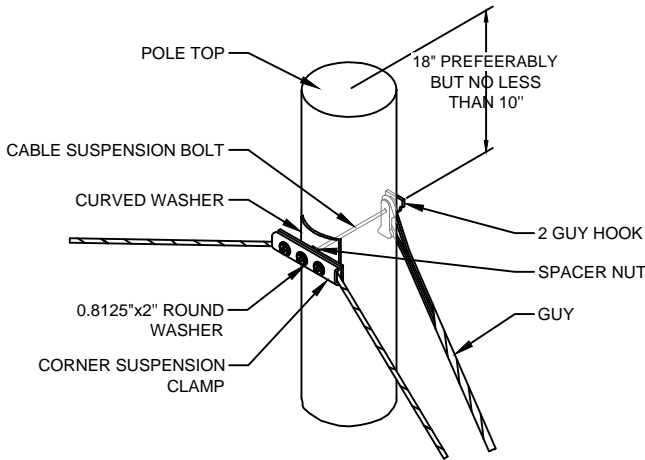
TYPICAL DETAIL "D"

SUSPENSION STRAND - PULL TOWARD  
POLE - LESS THAN 5 FEET



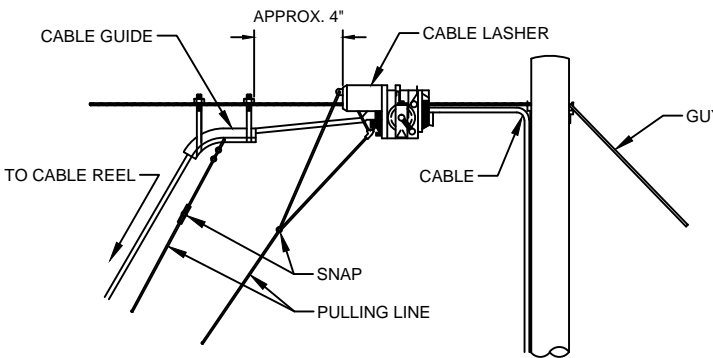
TYPICAL DETAIL "E"

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



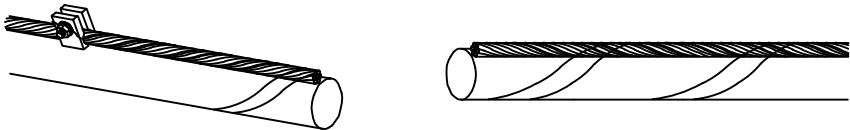
TYPICAL DETAIL "F"

TYPICAL ARRANGEMENT OF  
CABLE LASHER AND CABLE GUIDE



TYPICAL DETAIL "G"

JOINING 045 LASHING WIRE



FORMING WIRE OVER  
STUD OF CLAMP

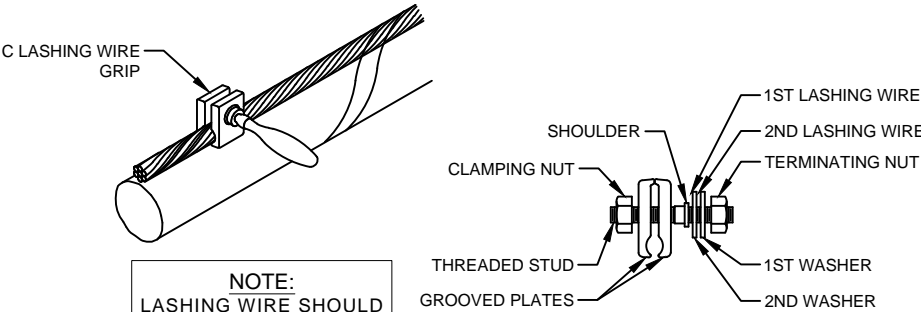
REMOVE ANY SLACK IN THE LASHING WIRE BY MAINTAINING A PULL ON THE WIRE AND TAPPING THE STRAND SHARPLY. THEN FORM THE WIRE OVER THE STUD AND TIGHTEN THE NUT. CUT THE FREE END OF THE LASHING WIRE OFF 0.75" BEYOND THE END OF THE CLAMP.

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 "H"

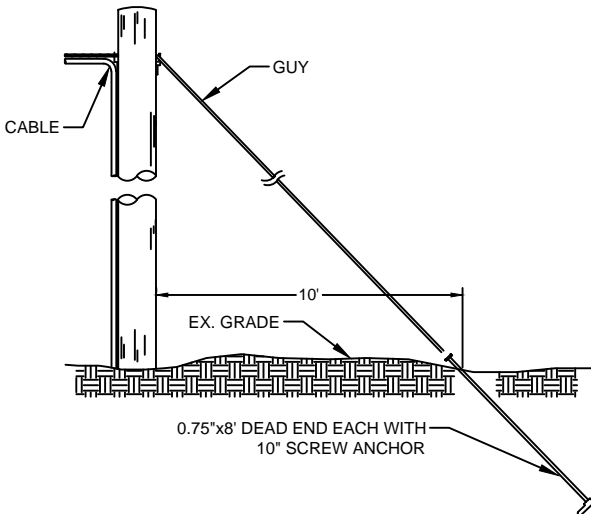
LASHING WIRE GRIP AND CLAMP



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

TYPICAL DETAIL "I"

ANCHOR & DOWN GUY



PROJECT: 1706ANBE.005

RICHMOND, TX

PEACAN GROVE TO OVER EASY



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

PEACANGROVE TO OVEREASY

RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS

No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

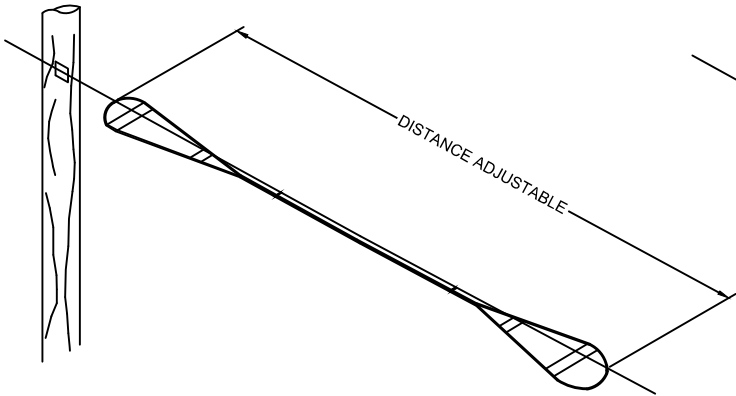
SHEET 7B OF 129

FILE: 1706ANBE.005 07BA

AERIAL IN-LINE SLACK STORAGE DETAILS

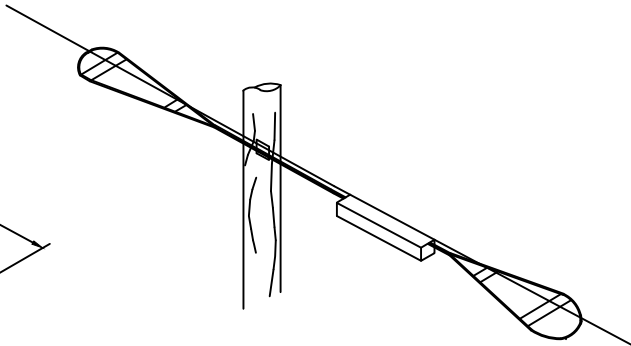
TYPICAL DETAIL "A"

RESERVE CABLE LENGTH  
STRAND STORAGE APPLICATION



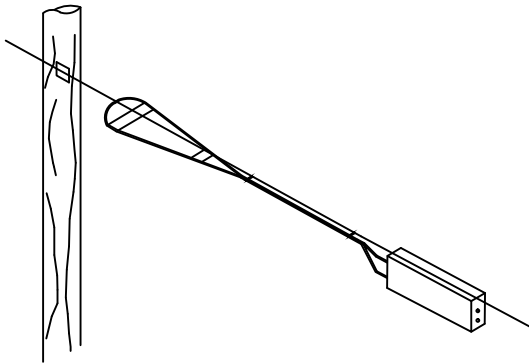
TYPICAL DETAIL "B"

IN-LINE SPLICE APPLICATION



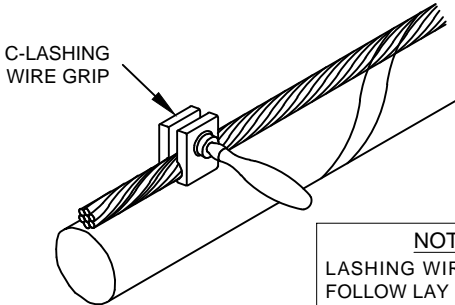
TYPICAL DETAIL "C"

BUTT SPLICE APPLICATION



TYPICAL DETAIL "D"

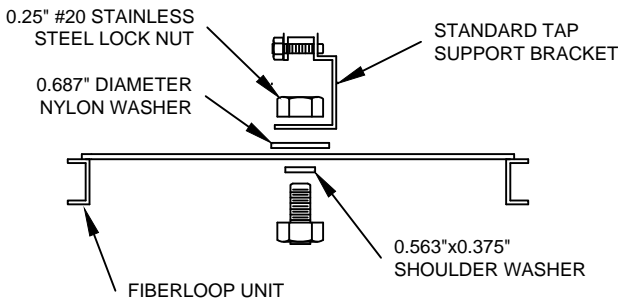
LASHING WIRE GRIP AND CLAMP C-LASHING  
WIRE GRIP INSTALLED ON STRAND



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

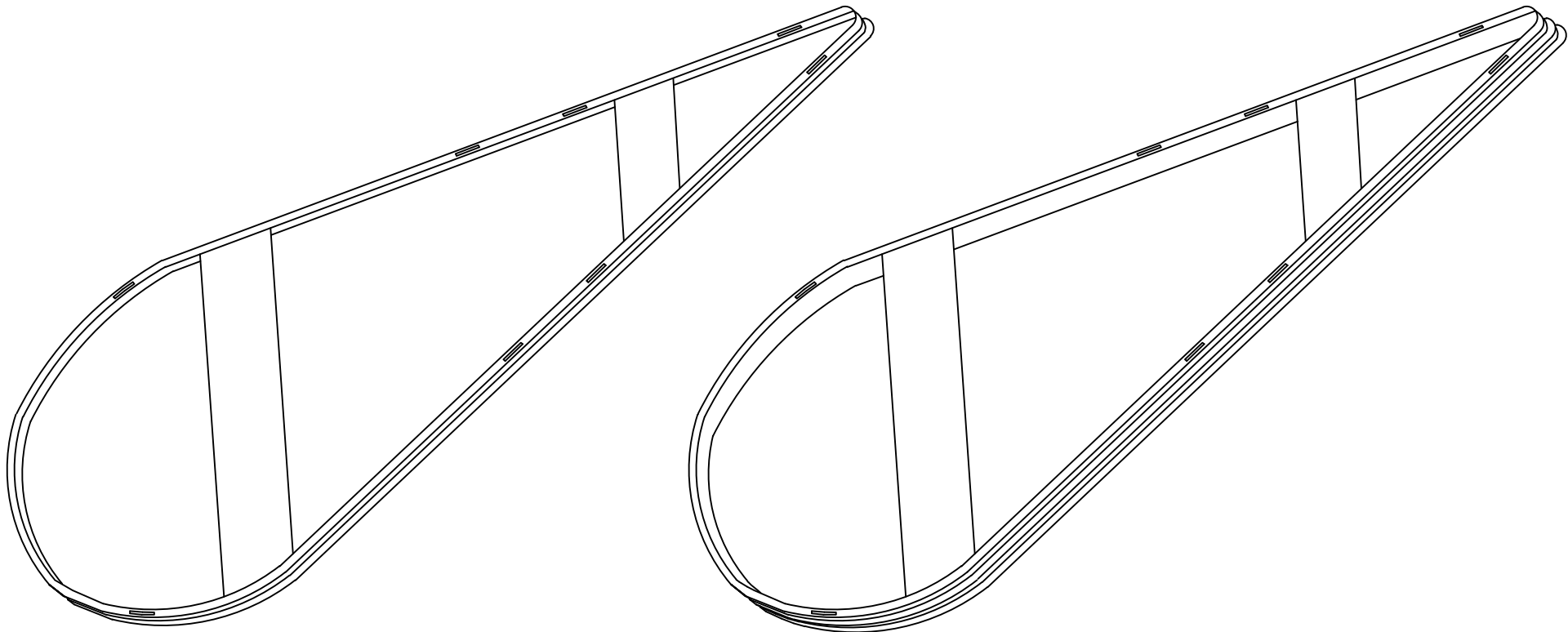
TYPICAL DETAIL "E"

HARDWARE KIT



TYPICAL DETAIL "F"

SINGLE & DOUBLE FIBER LOOPS



PROJECT: 1706ANBE.005

RICHMOND, TX

PEACAN GROVE TO OVER EASY



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

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PEACANGROVE TO OVEREASY

RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS			
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1.	-	-	-

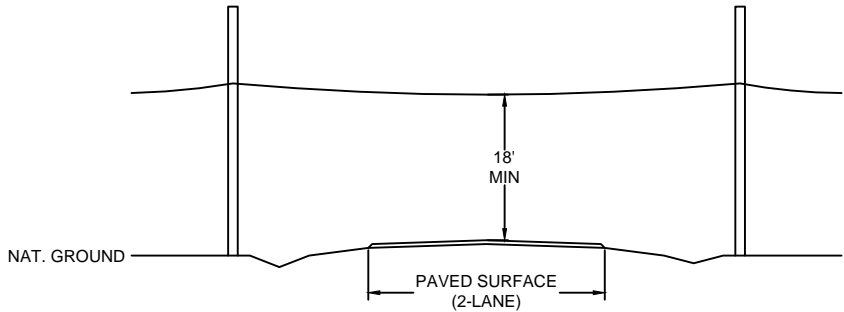
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SCALE	
HORIZONTAL:	1"= 50'
VERTICAL:	1"= N/A
MP	TO MP
SHEET 7C	OF 129
FILE: 1706ANBE.005 07CA	

TYPICAL CROSSING PROFILE DETAILS: AERIAL

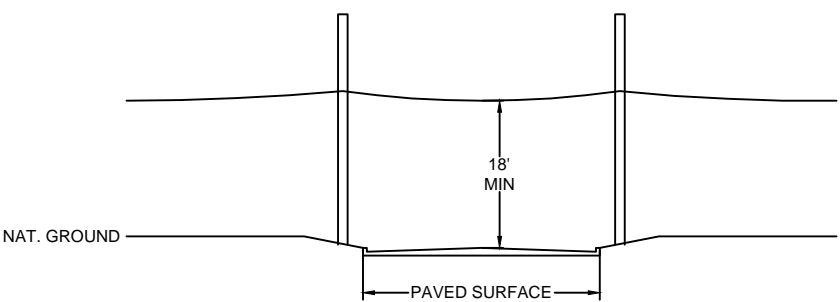
TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



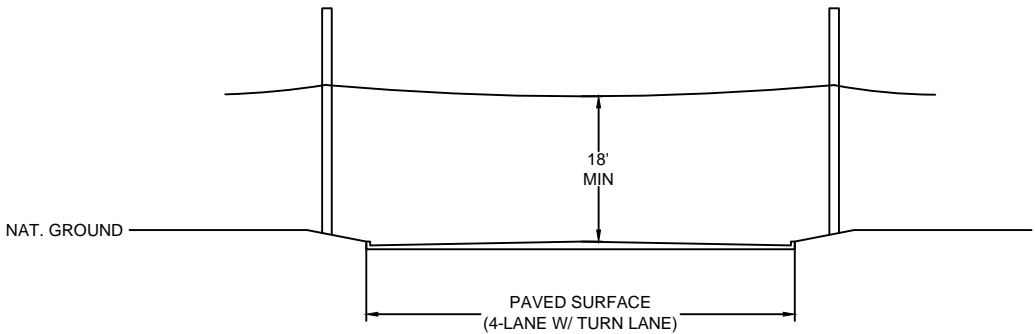
TYPICAL DETAIL "B"

TWO LANE - CURBED ROAD



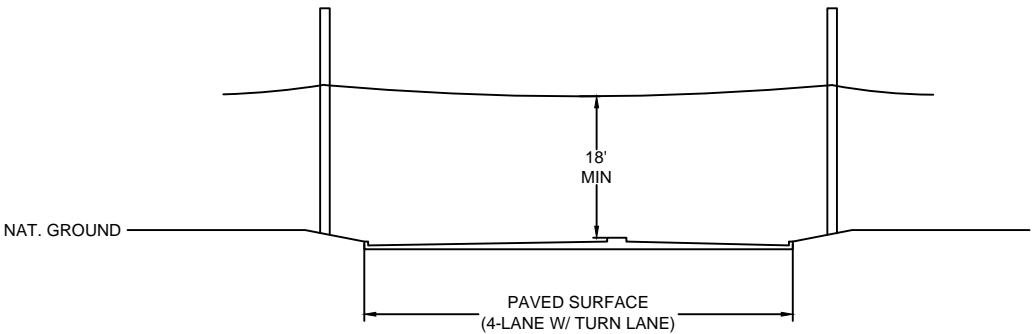
TYPICAL DETAIL "C"

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



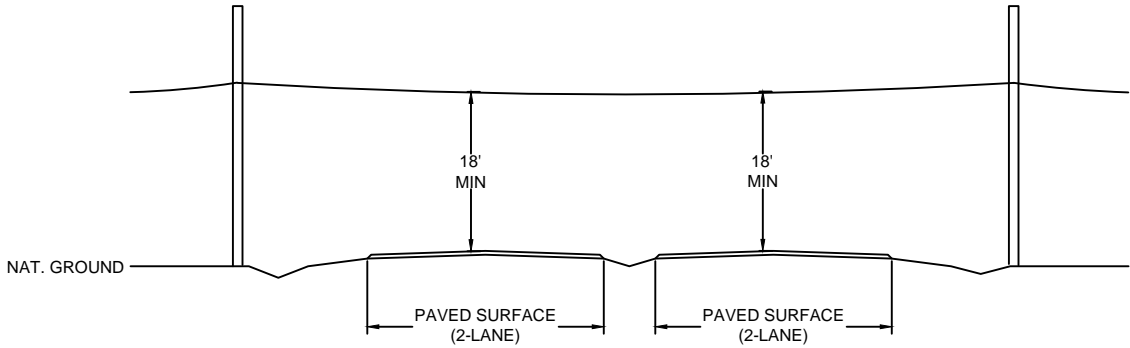
TYPICAL DETAIL "D"

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



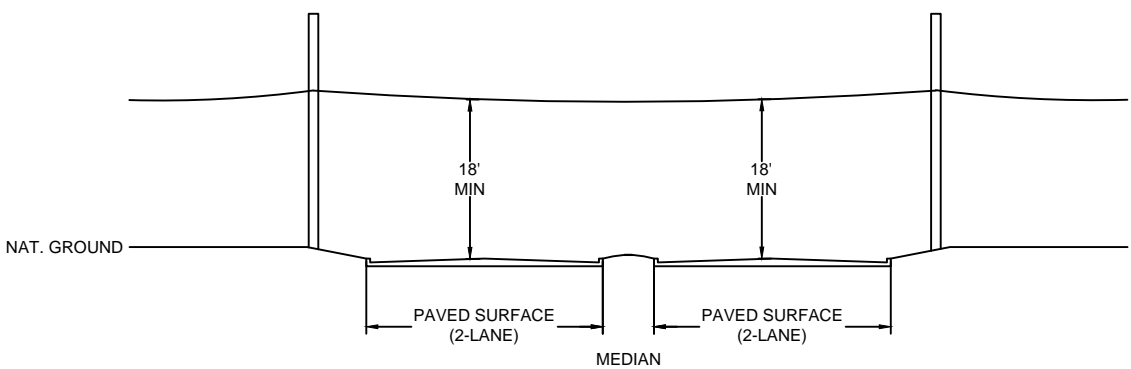
TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



TYPICAL DETAIL "F"

4 LANE - SPLIT CURBED ROAD



PROJECT: 1706ANBE.005

RICHMOND, TX  
PEACAN GROVE TO OVER EASY



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

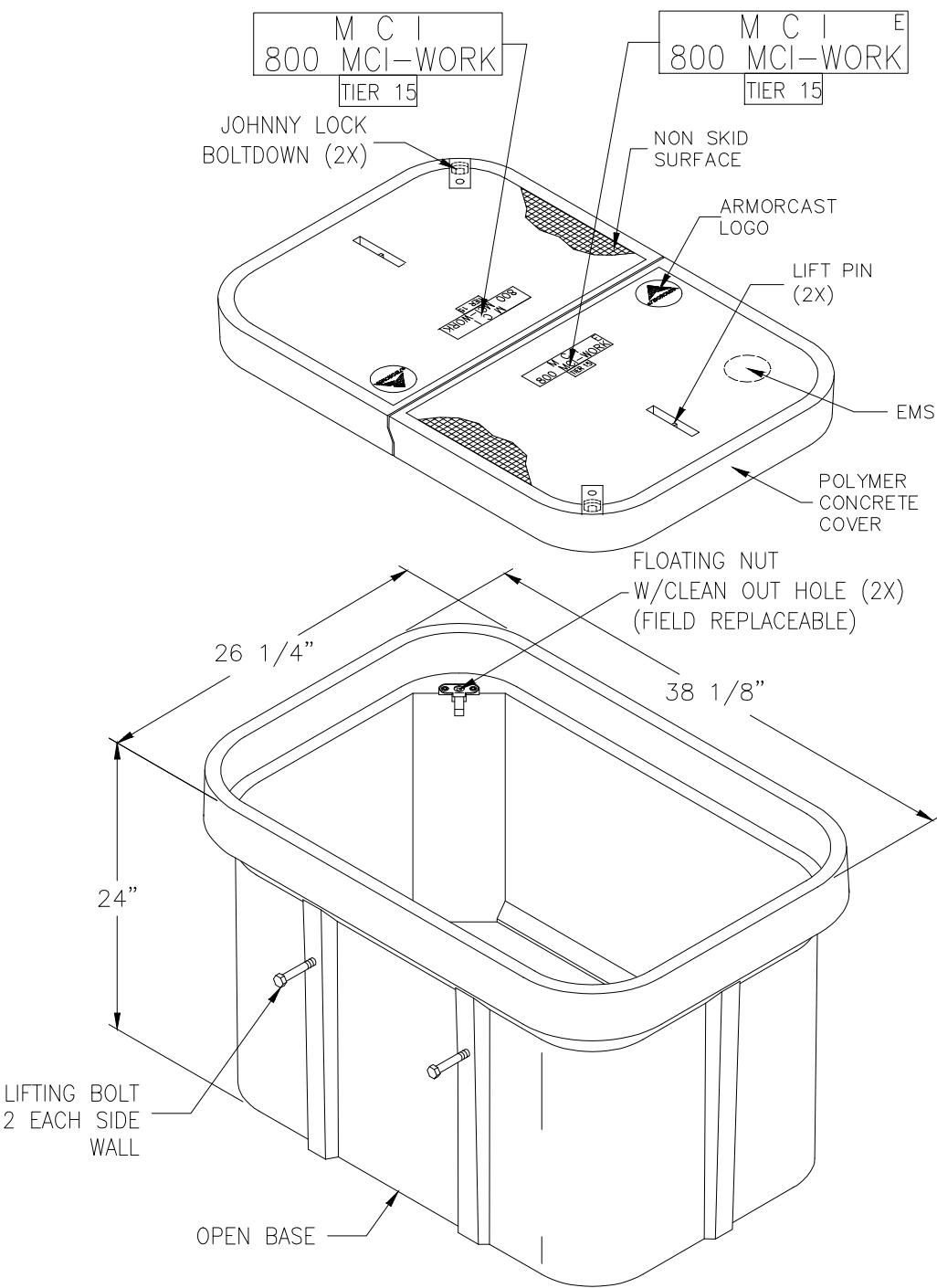
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-


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SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 7D OF 129  
FILE: 1706ANBE.005 07DA

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



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

FILE # A6-1974TAPMC14		13230 Satcoy Street, North Hollywood, CA 91605 (818) 982-3600				PART DESCRIPTION 24" X 36" X 24" POLYMER CONCRETE BOX ASSEMBLY			
		ARMORCAST® PRODUCTS COMPANY				CUSTOMER VERIZON			
		*THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL. THE DRAWING IS NOT TO BE REPRODUCED OR ITS CONTENTS DIVULGED IN ANY WAY WHATSOEVER EXCEPT WITH THE PRIOR WRITTEN APPROVAL OF ARMORCAST PRODUCTS COMPANY. IT IS THE PROPERTY OF AND MUST BE RETURNED TO ARMORCAST PRODUCTS COMPANY, 13230 SATICOY STREET, NORTH HOLLYWOOD, CALIFORNIA 91605.*				DRAWN	DATE	SCALE	MAX. LOAD
						OA	10/17	NONE	TIER 15
						APPROV.	10/17	MATERIAL POLYMER CONCRETE	DRAWING NUMBER A6001974TAPMC14

PROJECT: 1706ANBE.005

RICHMOND, TX  
PEACAN GROVE TO OVER EASY



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACANGROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

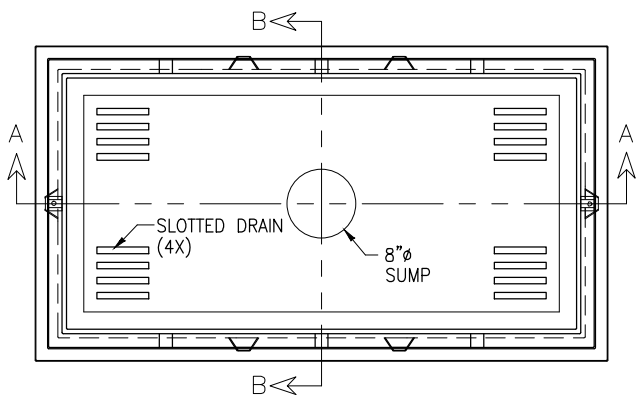
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SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 8 OF 129  
FILE: 1706ANBE.005 08 A

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

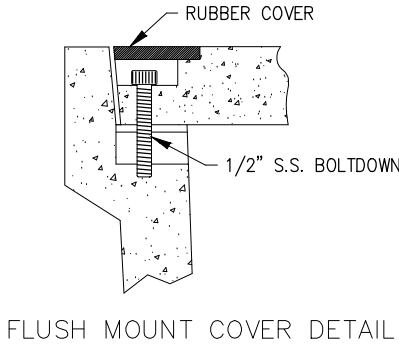
DETAIL "A"

LOCKING DEVICE  
CROSS SECTION



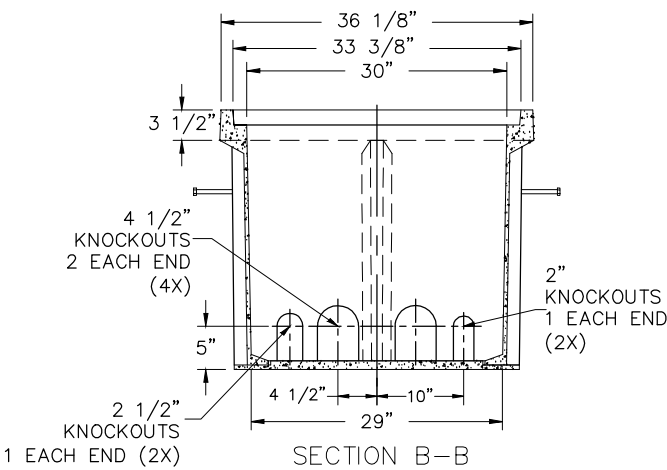
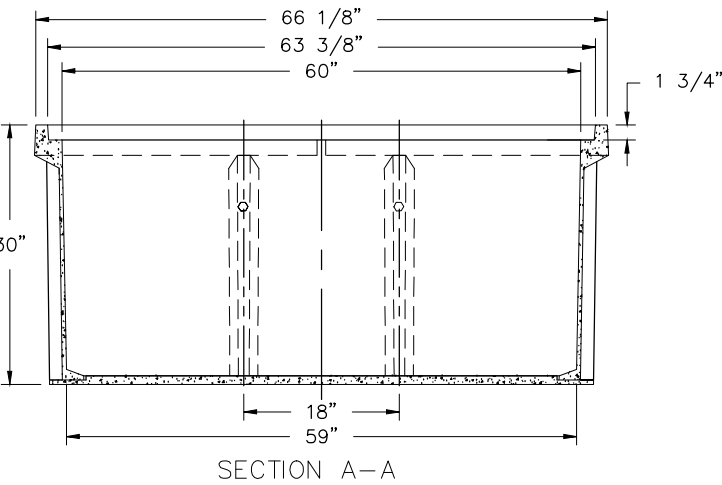
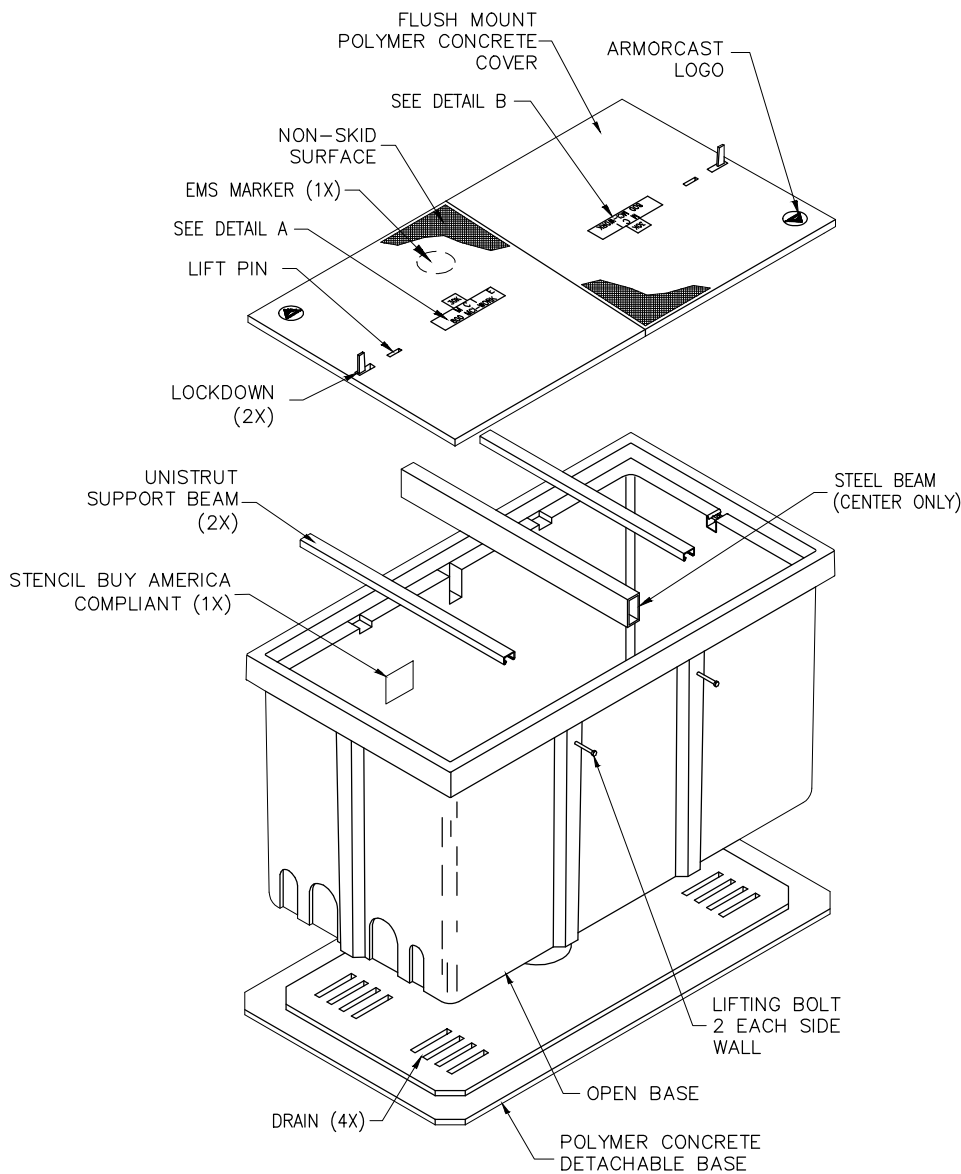
DETAIL "B"

FLUSH MOUNT  
COVER DETAIL



DETAIL "C"

EXPLODED ISOMETRIC DETAIL



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

30K  
M C I  
800 MCI-WORK  
DETAIL B

- SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN
- | ITEM | QTY |  |
|------|-----|--|
| 1    | (1) | JOHNNY LOCK KEY                            |
| 2    | (2) | S.S. JOHNNY BOLTS W/FLAT WASHER.           |
| 3    |     | 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**

PROJECT: 1706ANBE.005  
RICHMOND, TX  
PEACAN GROVE TO OVER EASY



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO OVER EASY  
RICHMOND, TX

DATE: 10/02/18  
ENGINEER: L. STALCUP  
DRAWN BY: T.P.G. (KIB)

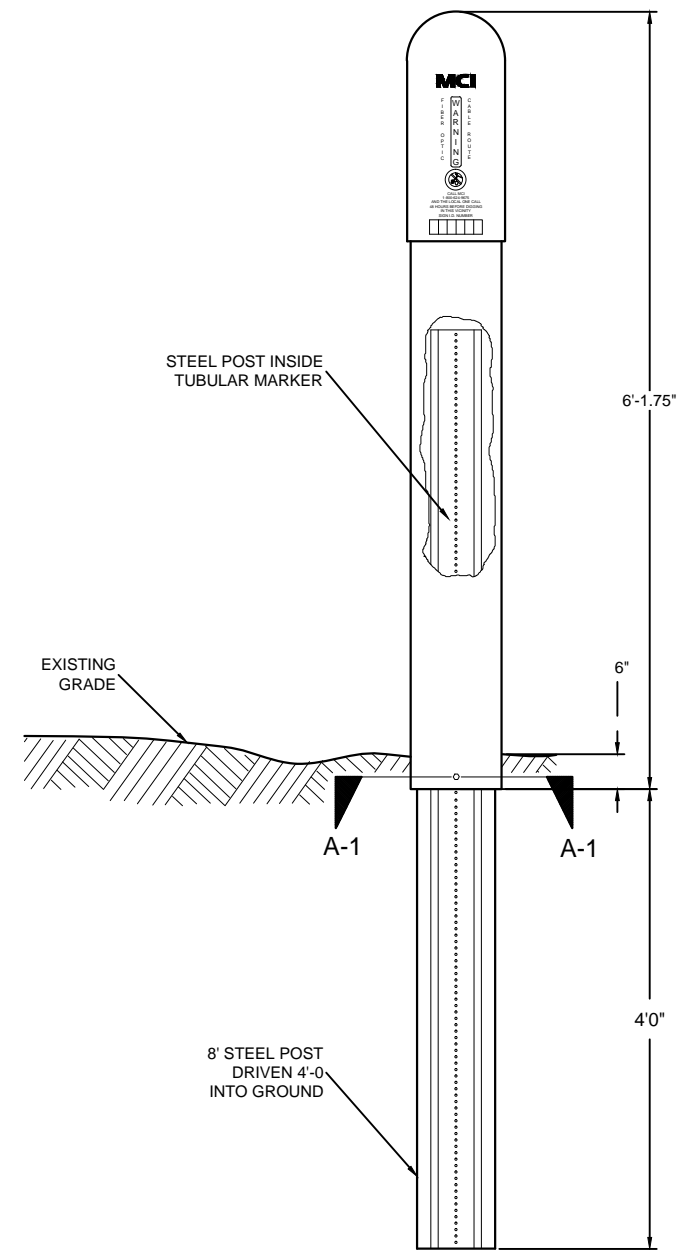
REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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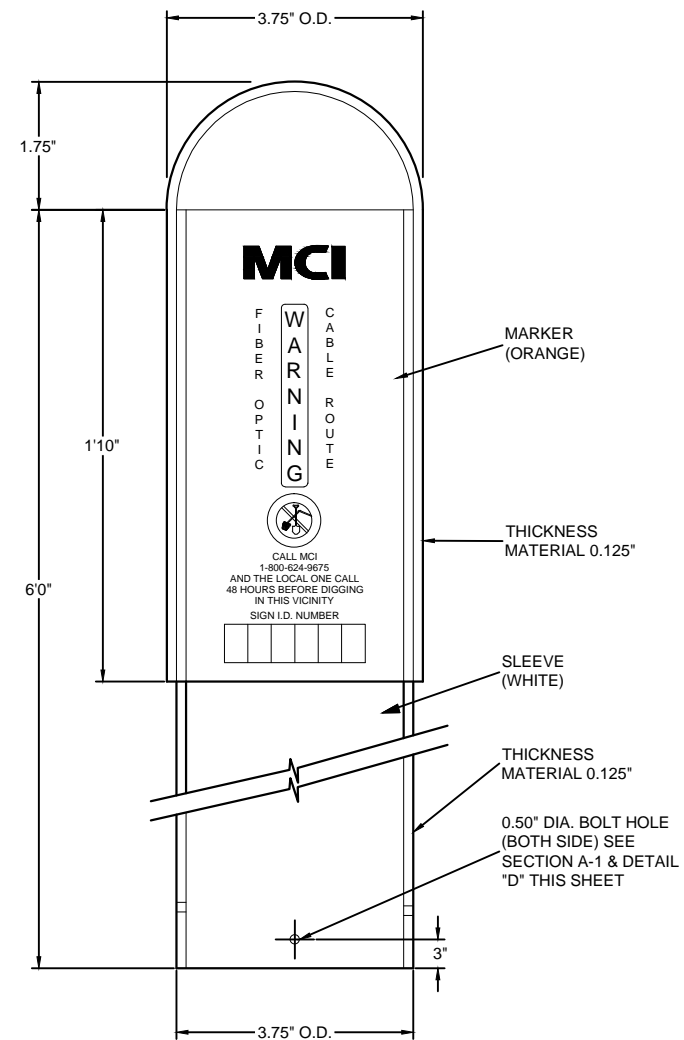
**SCALE**  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 8A OF 129  
FILE: 1706ANBE.005 08AA

TUBULAR MARKER DETAILS

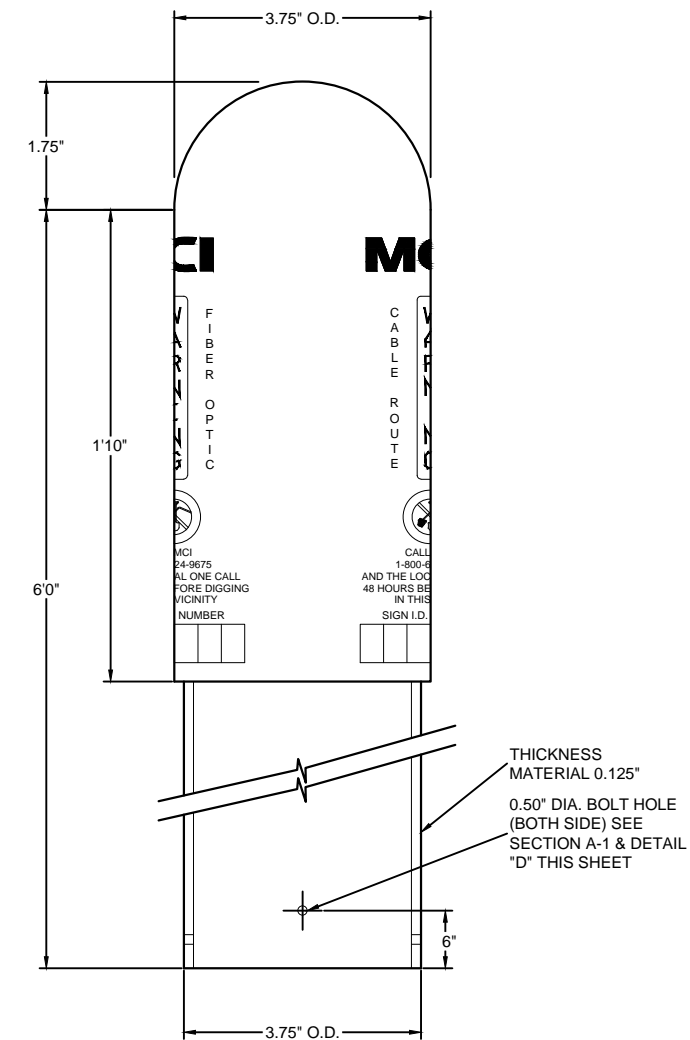
DETAIL "A"  
INSTALLATION VIEW



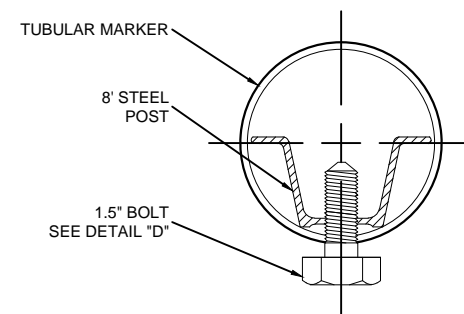
DETAIL "B"  
FRONT VIEW



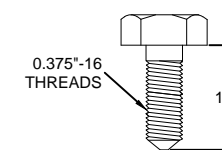
DETAIL "C"  
SIDE VIEW



SECTION A-1  
TUBULAR MARKER



DETAIL "D"  
1.5" BOLT



PROJECT: 1706ANBE.005  
RICHMOND, TX  
PEACAN GROVE TO OVER EASY



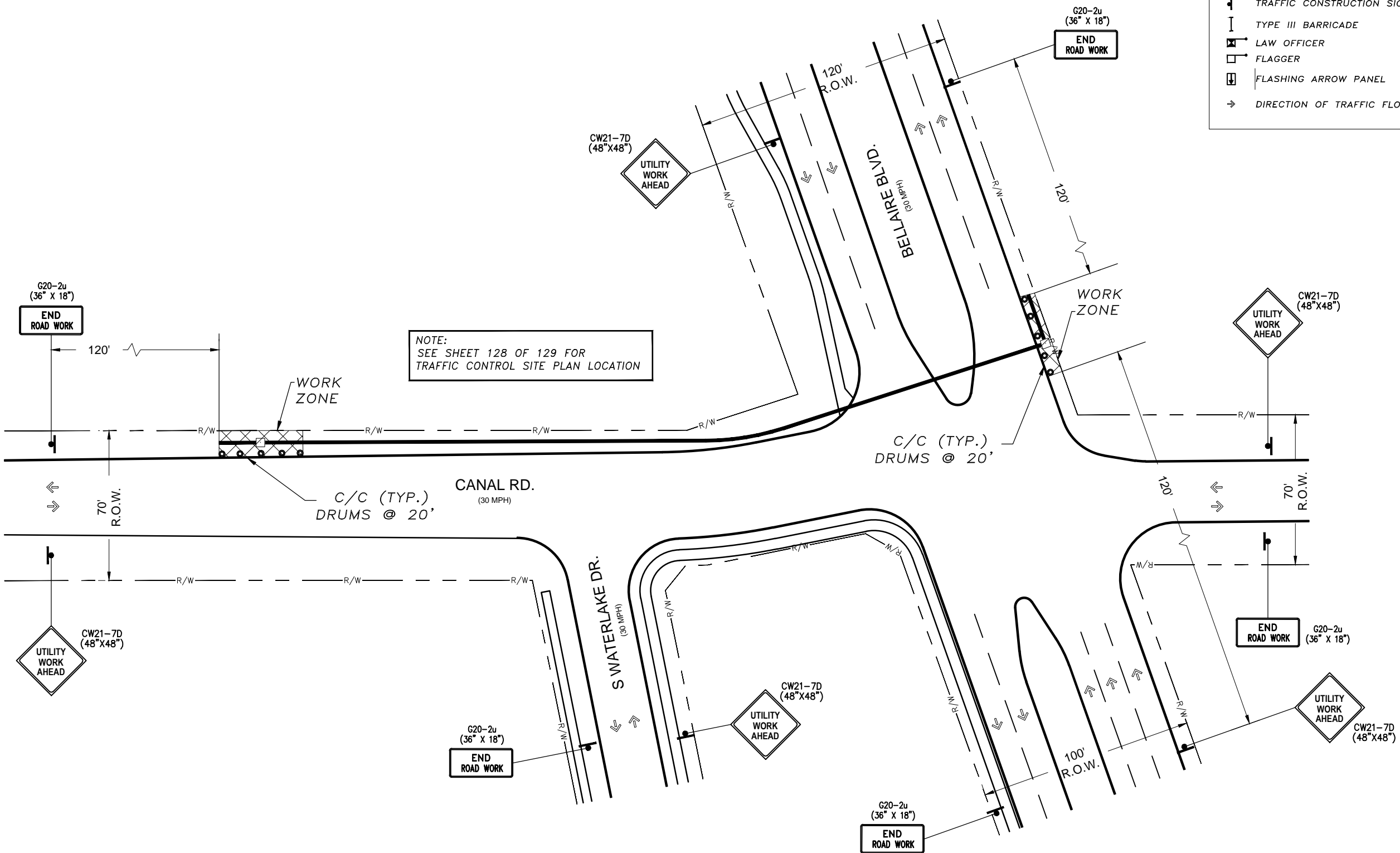
MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO OVER EASY  
RICHMOND, TX

DATE: 10/02/18  
ENGINEER: L. STALCUP  
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REVISIONS			
No.	DATE	DESCRIPTION	BY
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SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 9 OF 129  
FILE: 1706ANBE.005 09 A



**LEGEND**

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

NOTE:  
SEE SHEET 128 OF 129 FOR  
TRAFFIC CONTROL SITE PLAN LOCATION

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.

**TYPICAL  
DRUM PLACEMENT**

VERTICAL PANELS  
@ 60' C-C

FLASHERS  
@ 30' C-C

DRUMS  
@ 30' C-C

DRUMS WITH  
LEFT  
CHEVRON SIGN

DRUMS WITH  
RIGHT  
CHEVRON SIGN

DRUMS WITH  
LEFT  
CHEVRON SIGN

DRUMS WITH  
RIGHT  
CHEVRON SIGN

RETROREFLECTIVE  
BAND  
(28 IN.)

(2 IN.)  
(3 IN.)  
(2 TO 6 IN.)  
(3 IN.)

NIGHT AND/OR FREEWAY  
HIGH-SPEED ROADWAY  
(≥ 45 MPH)

WARNING LIGHTS ARE OPTIONAL BUT MUST BE USED DURING DARK HOURS

PROJECT: 1706ANBE.005  
RICHMOND, TX  
PEACAN GROVE TO OVER EASY



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
PEACANGROVE TO OVEREASY  
RICHMOND, TX

DATE: 09/05/18  
ENGINEER: L. STALCUP  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
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**SCALE**

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

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 9C OF 129

FILE: 1706ANBE.005 09CA



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

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

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

RICHMOND, TX  
FORT BEND COUNTY

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

NORTH



PROJECT: 1706ANBE.005

RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	2
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	418'
PULL 1-144F (A) CABLE	568'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	184'
LASH 1-144F CABLE	284'
DOWN GUY & ANCHOR	1
RISER: 2" U GUARD	1
PLACE MARKER	2



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACANGROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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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

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 121 OF 129

FILE: 1706ANBE.005 0121

FM-1093 (WBSR)  
(CONCRETE)

FM-1093 (TOLLROAD MAINLANES)  
(CONCRETE)

FM-1093 (EBSR)  
(CONCRETE)

CANAL RD.  
(ASPHALT)

FQND  
FIB: BUR:  
117238206

699+01  
PLACE MCIM 24"X36"X24" HH & MKR  
SPlice ENCLOSURE  
LEAVE 75' SLACK COIL

(C-C) DIR. BORE (1119') OF  
1-2" HDPE E/W 1-144F CABLE

(C-C) DIR. BORE (198') OF  
1-2" HDPE E/W 1-144F CABLE

697+13  
PLACE MCIM 24"X36"X24" HH & MKR  
SPlice ENCLOSURE  
LEAVE 75' SLACK COIL

STA 697+03 EXIST. CPE POLE # UNK (81)  
(-95.77932000, 29.69979000)  
NEUTRAL = 35'-00"  
PROP. MCIM = 18'-00"  
PROP. STAND OFF RISER  
PROP. DOWN GUY & ANCHOR  
PROP. 2" U-GUARD

(C-C) TRENCH (10') OF  
1-2" HDPE E/W 1-144F CABLE

PROP. MCIM AERIAL CABLE  
LASH (184') 1-144F CABLE

FQND  
FIB: AER:  
117238202

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.



CALL BEFORE YOU DIG  
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.

SEE SHEET 120 TO MATCH SURVEY STA. 695+19

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.

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

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

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.



PROJECT: 1706ANBE.005  
RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	650'
PULL 1-144F (A) CABLE	650'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-



MCI metro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

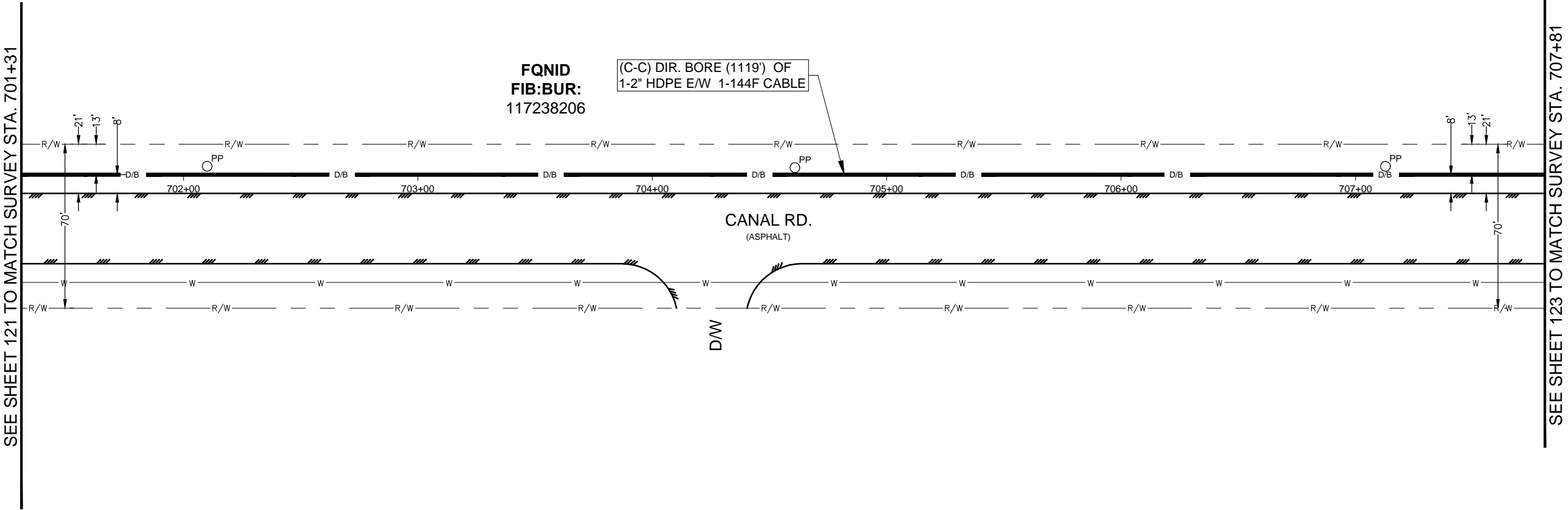
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO OVER EASY  
RICHMOND, TX

DATE: 10/02/18  
ENGINEER: L. STALCUP  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 122 OF 129  
FILE: 1706ANBE.005 0122



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:  
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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.

CALL BEFORE YOU DIG  
1-800-545-6005  
48 HOURS NOTICE REQUIRED

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

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

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.

NORTH



PROJECT: 1706ANBE.005

RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	650'
PULL 1-144F (A) CABLE	725'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

PEACAN GROVE TO OVEREASY

RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

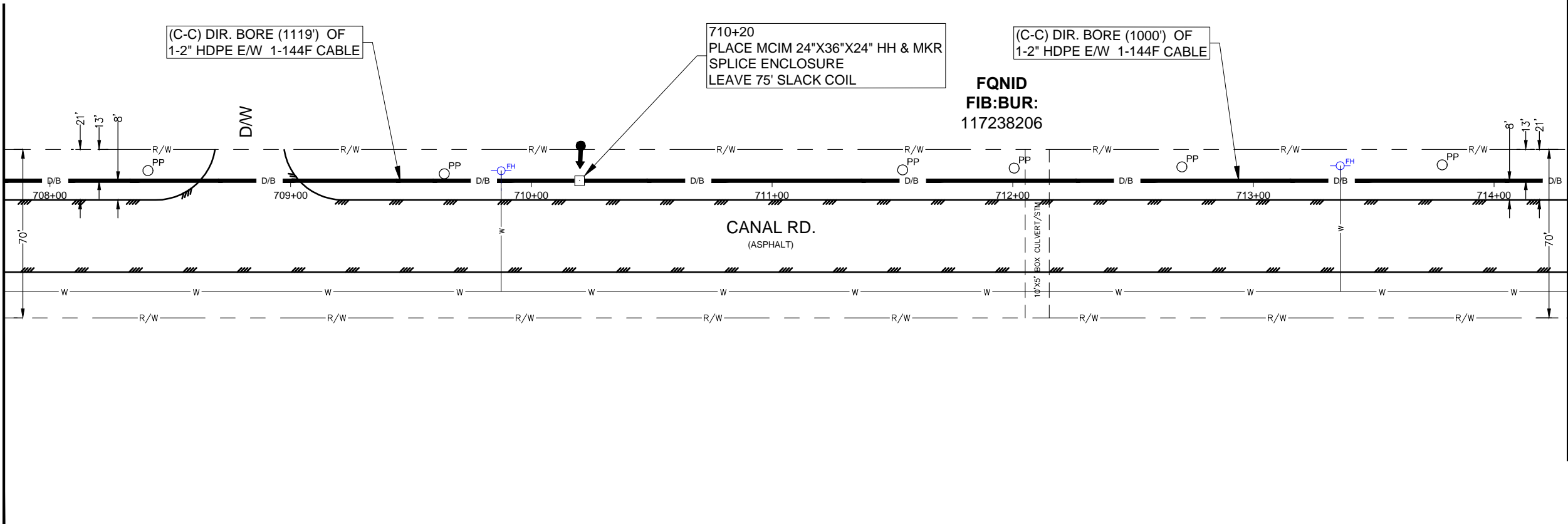
VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 123 OF 129

FILE: 1706ANBE.005 0123

SEE SHEET 122 TO MATCH SURVEY STA. 707+81



SEE SHEET 124 TO MATCH SURVEY STA. 714+31

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS  
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TO CONSTRUCTION.



CALL BEFORE YOU DIG  
1-800-545-6005  
48 HOURS NOTICE REQUIRED

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

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

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.

NORTH



PROJECT: 1706ANBE.005

RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	650'
PULL 1-144F (A) CABLE	725'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 124 OF 129

FILE: 1706ANBE.005 0124

SEE SHEET 123 TO MATCH SURVEY STA. 714+31

FQID  
FIB: BUR:  
117238206

BELLA TERRA PKWY.  
(CONCRETE)

CANAL RD.  
(ASPHALT)

(C-C) DIR. BORE (1000') OF  
1-2" HDPE E/W 1-144F CABLE

720+20  
PLACE MCIM 24"X36"X24" HH & MKR  
SPlice ENCLOSURE  
LEAVE 75' SLACK COIL

(C-C) DIR. BORE (240') OF  
1-2" HDPE E/W 1-144F CABLE

SEE SHEET 125 TO MATCH SURVEY STA. 720+81

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS  
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NOTE:  
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SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR  
TO CONSTRUCTION.



CALL BEFORE YOU DIG  
1-800-545-6005  
48 HOURS NOTICE REQUIRED



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

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

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.

NORTH



PROJECT: 1706ANBE.005

RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	650'
PULL 1-144F (A) CABLE	725'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18  
ENGINEER: L. STALCUP  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 125 OF 129

FILE: 1706ANBE.005 0125

SEE SHEET 124 TO MATCH SURVEY STA. 720+81

SEE SHEET 126 TO MATCH SURVEY STA. 495+89

(C-C) DIR. BORE (240') OF  
1-2" HDPE E/W 1-144F CABLE

722+60  
PLACE MCIM 24"X36"X24" HH & MKR  
SPlice ENCLOSURE  
LEAVE 75' SLACK COIL

FQNIID  
FIB: BUR:  
117238206

(C-C) DIR. BORE (980') OF  
1-2" HDPE E/W 1-144F CABLE

CANAL RD.  
(ASPHALT)

N WATERLILLY DR.  
(ASPHALT)

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
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SURVEYOR TO ACCURATELY VERIFY RIGHT OF WAY AND PROPERTY LINES PRIOR  
TO CONSTRUCTION.



CALL BEFORE YOU DIG  
1-800-545-6005  
48 HOURS NOTICE REQUIRED



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

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

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.



PROJECT: 1706ANBE.005  
RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	1
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	650'
PULL 1-144F (A) CABLE	725'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



MCImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION

OUTSIDE PLANT CONSTRUCTION

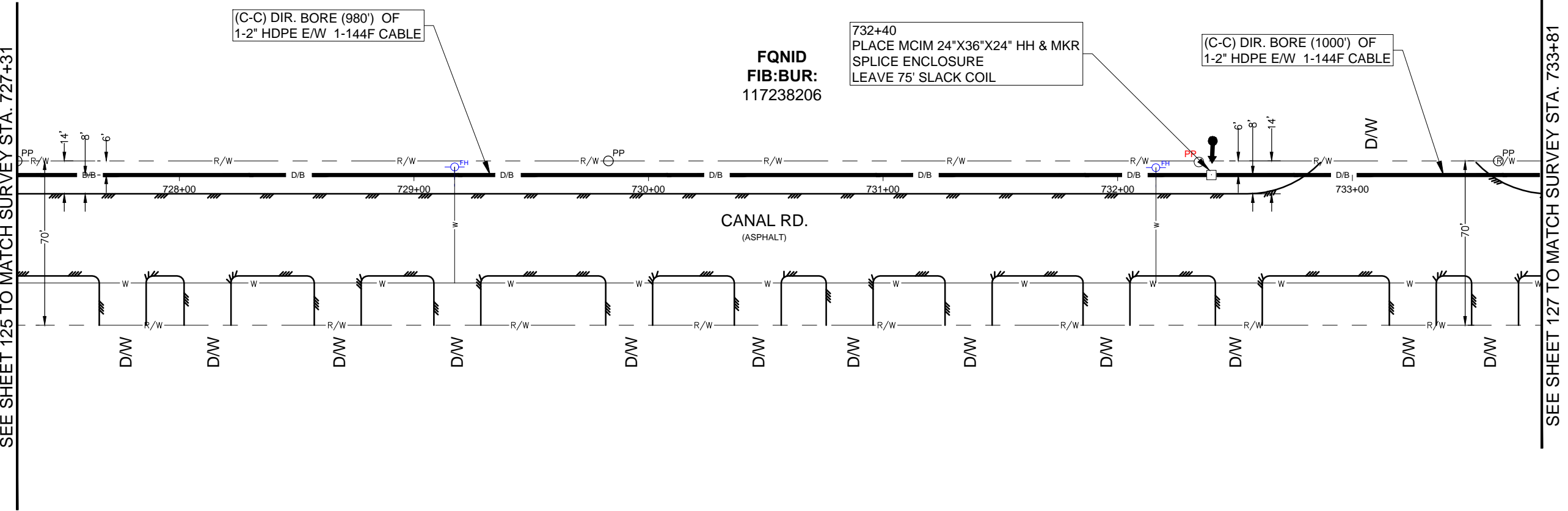
TITLE: FIBER OPTIC ROUTE  
PEACAN GROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18  
ENGINEER: L. STALCUP  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 126 OF 129  
FILE: 1706ANBE.005 0126



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND  
FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. IT IS THE CONTRACTORS  
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NOTE:  
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TO CONSTRUCTION.

CALL BEFORE YOU DIG  
1-800-545-6005  
48 HOURS NOTICE REQUIRED

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

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

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.

NORTH



PROJECT: 1706ANBE.005

RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	-
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	650'
PULL 1-144F (A) CABLE	650'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	-



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACANGROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18  
ENGINEER: L. STALCUP  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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SCALE

HORIZONTAL: 1"= 50'

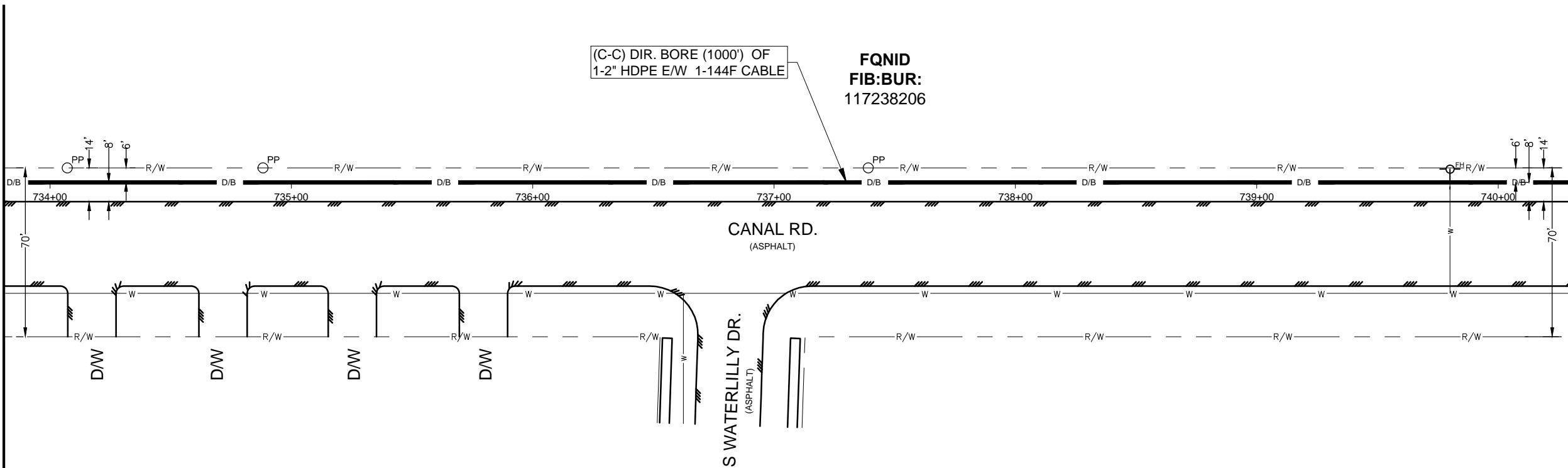
VERTICAL: 1"= N/A

MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 127 OF 129

FILE: 1706ANBE.005 0127

SEE SHEET 126 TO MATCH SURVEY STA. 733+81

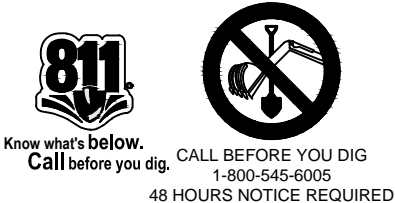


SEE SHEET 128 TO MATCH SURVEY STA. 740+31

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

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

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

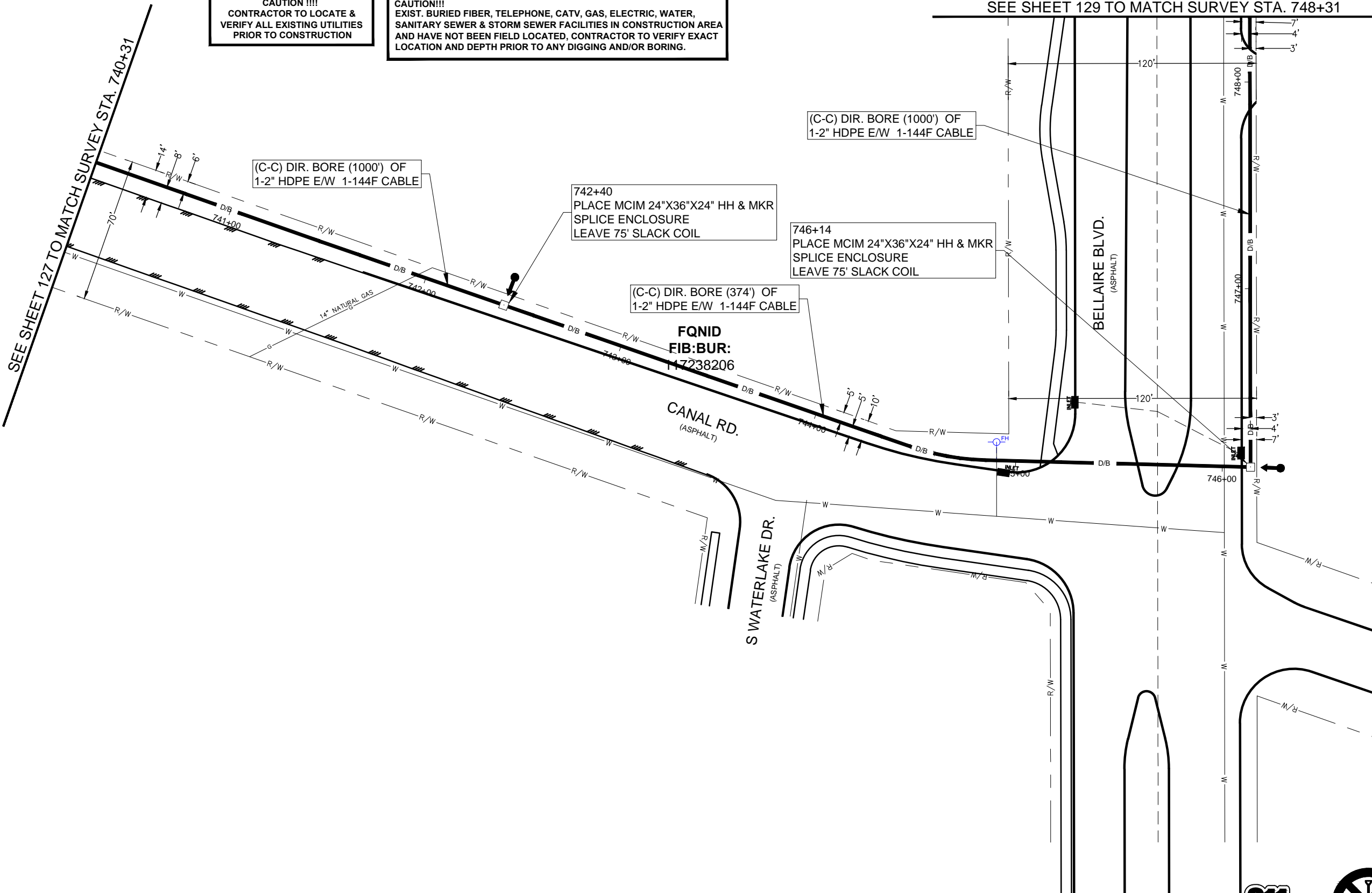
RICHMOND, TX  
FORT BEND COUNTY

NORTH



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.



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.

**811**  
Know what's below.  
Call before you dig.

CALL BEFORE YOU DIG  
1-800-545-6005  
48 HOURS NOTICE REQUIRED

PROJECT: 1706ANBE.005  
RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"X36"X24") HH	2
PLACE (17"X30"X36") HH	-
PROP. 1-2" HDPE	800
PULL 1-144F (A) CABLE	950'
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	2



McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
PEACANGROVE TO OVEREASY  
RICHMOND, TX

DATE: 10/02/18  
ENGINEER: L. STALCUP  
DRAWN BY: T.P.G. (KIB)

REVISIONS			
No.	DATE	DESCRIPTION	BY
1.	-	-	-

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  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 128 OF 129  
FILE: 1706ANBE.005 0128



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

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

**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.



PROJECT: 1706ANBE.005  
RICHMOND, TX  
PEACAN GROVE TO OVER EASY

CLARIFICATION NO.	QUANTITY
PLACE (24"x36"x24") HH	1
PLACE (17"x30"x36") HH	-
PROP. 1-2" HDPE	162
PULL 1-144F (A) CABLE	437
PULL 1-144F (DE) CABLE	-
PLACE 6M STRAND	-
LASH 1-144F CABLE	-
DOWN GUY & ANCHOR	-
RISER: 2" U GUARD	-
PLACE MARKER	1



MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE	
PEACANGROVE TO OVEREASY	
RICHMOND, TX	

DATE: 10/02/18

ENGINEER: L. STALCUP

DRAWN BY: T.P.G. (KIB)

[illegible]

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SCALE

HORIZONTAL: 1" = 50'

VERTICAL: 1"= N/A

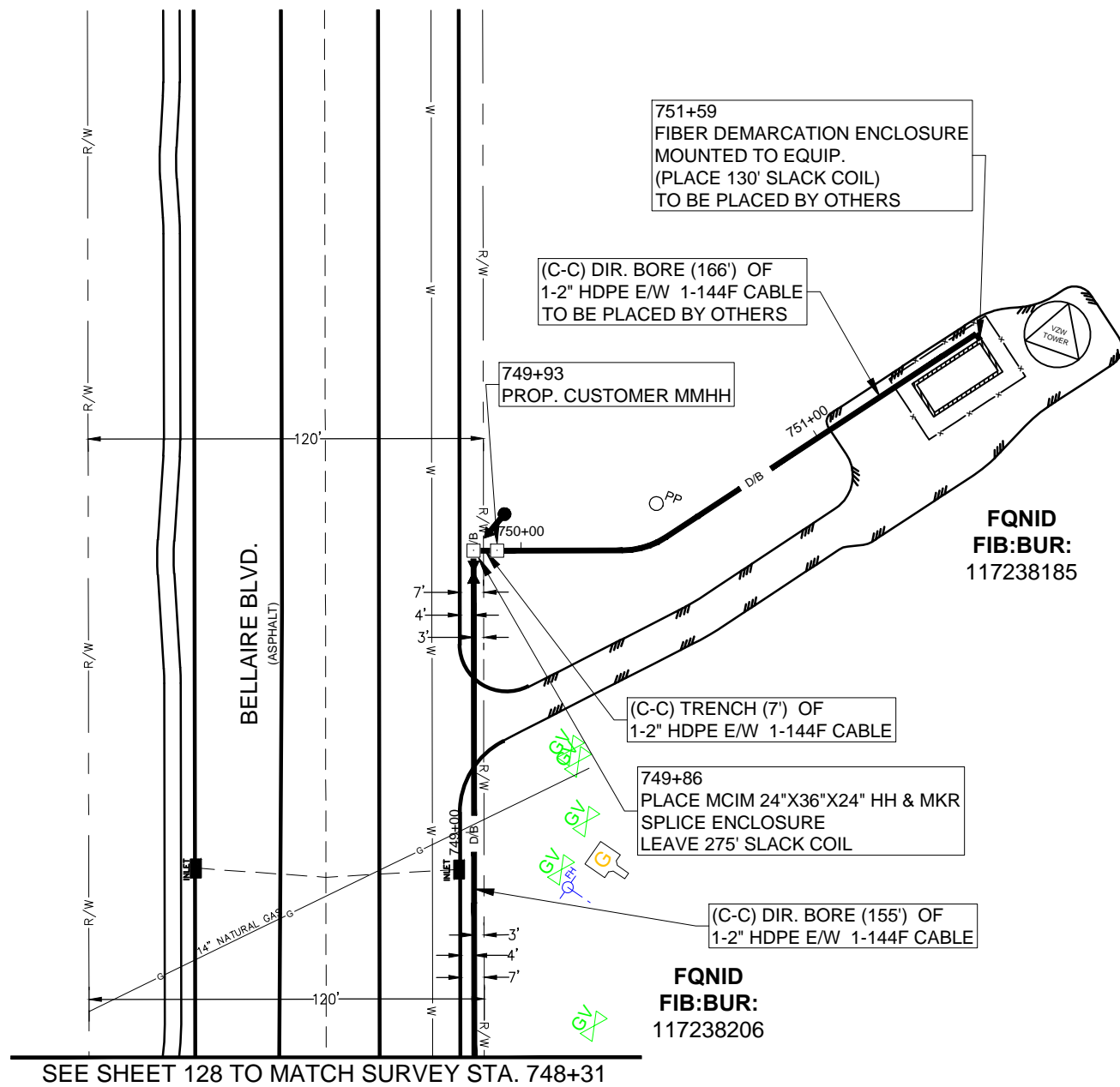
MP \_\_\_\_\_ TO MP \_\_\_\_\_

SHEET 129 OF 129

**NOTE:  
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**dig. CALL BEFORE YOU DIG**  
**1-800-545-6005**  
**48 HOURS NOTICE REQUIRED**

FILE: 1706ANBE.005 0129

## **Velasquez, Courtney**

---

**From:** Gary Gehbauer <GGehbauer@bgeinc.com>  
**Sent:** Monday, October 22, 2018 5:29 PM  
**To:** Velasquez, Courtney  
**Subject:** RE: Permit 2018-23863

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Courtney,  
I believe that Dannenbaum reviewed this and they didn't have any issues. Just needs a TxDOT permit for FM 1093.

Gary Gehbauer, PE  
BGE  
10777 Westheimer, Suite 400  
Houston, Texas 77042  
(281)558-8700 voice  
(281)558-9706 fax  
[ggehbauer@bgeinc.com](mailto:ggehbauer@bgeinc.com)

**From:** Velasquez, Courtney <Courtney.Velasquez@fortbendcountytexas.gov>  
**Sent:** Monday, October 22, 2018 5:02 PM  
**To:** Slawinski, Stacy <Stacy.Slawinski@fortbendcountytexas.gov>; Gary Gehbauer <GGehbauer@bgeinc.com>  
**Cc:** Peterson, Jillian <Jillian.Peterson@fortbendcountytexas.gov>; Eglinton, Sean <Sean.Eglinton@fortbendcountytexas.gov>; Ramirez, Jose <Jose.Ramirez@fortbendcountytexas.gov>  
**Subject:** Permit 2018-23863

Stacy there is mobility in the area can you review this for me

Gary I believe that Rick said you had seen this one already and gave it the ok but can you please confirm that for me .





## Velasquez, Courtney

---

**From:** Slawinski, Stacy  
**Sent:** Tuesday, October 23, 2018 2:53 PM  
**To:** Velasquez, Courtney  
**Cc:** Peterson, Jillian; Eglinton, Sean; Ramirez, Jose; Gary Gehbauer  
**Subject:** RE: Permit 2018-23863

Courtney,

This section is not adjacent to any Mobility projects, so I have no comments. Let me know if you have any questions.

Thanks,

**Stacy Slawinski**

[stacy.slawinski@fortbendcountytexas.gov](mailto:stacy.slawinski@fortbendcountytexas.gov)

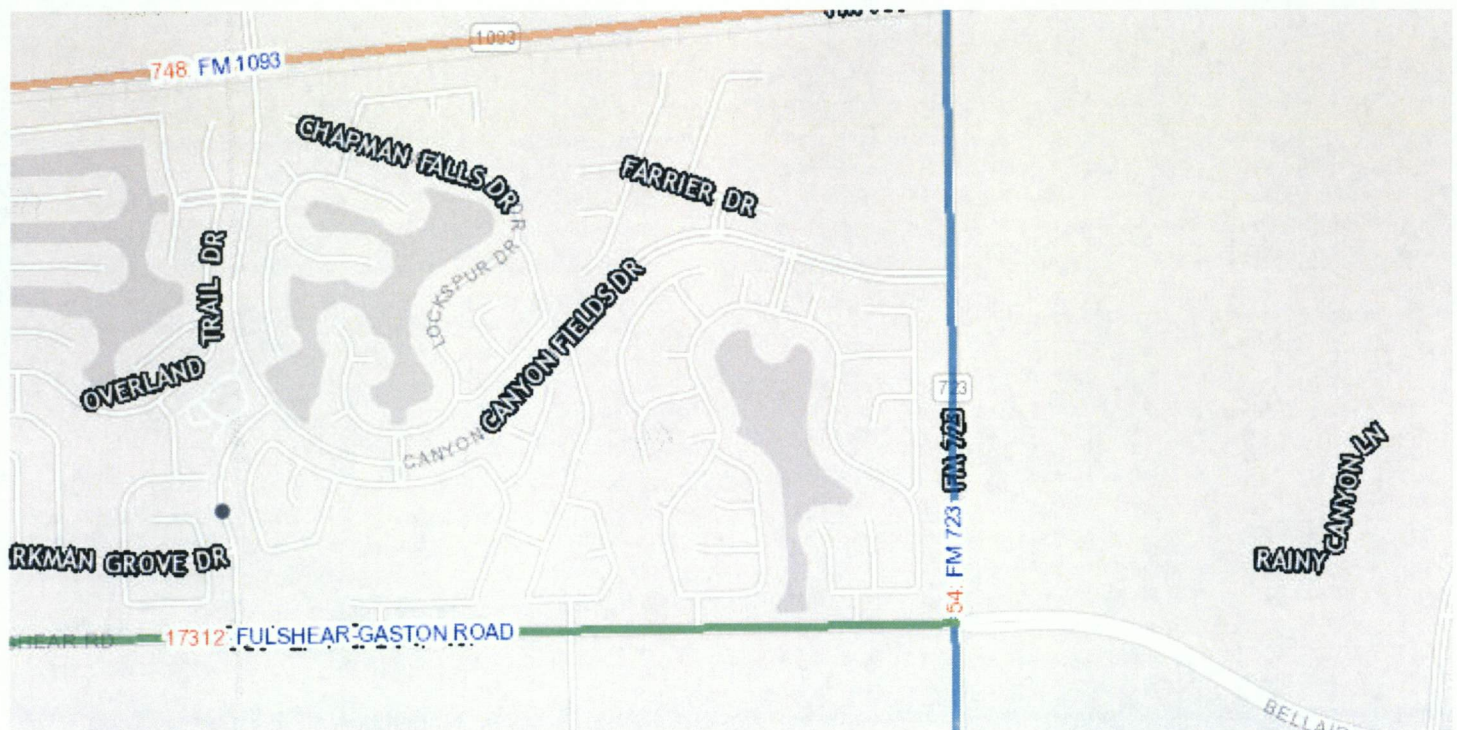
281-633-7508 office

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**From:** Velasquez, Courtney  
**Sent:** Monday, October 22, 2018 5:02 PM  
**To:** Slawinski, Stacy <Stacy.Slawinski@fortbendcountytexas.gov>; Gary Gehbauer <GGehbauer@bgeinc.com>  
**Cc:** Peterson, Jillian <Jillian.Peterson@fortbendcountytexas.gov>; Eglinton, Sean <Sean.Eglinton@fortbendcountytexas.gov>; Ramirez, Jose <Jose.Ramirez@fortbendcountytexas.gov>  
**Subject:** Permit 2018-23863

Stacy there is mobility in the area can you review this for me

Gary I believe that Rick said you had seen this one already and gave it the ok but can you please confirm that for me .



\*Updated platting fees will go into effect **October 3<sup>rd</sup>, 2018**

\*County Clerk plat recordation fees have changed and will go into effect **November 1<sup>st</sup>, 2018**

\*The County Clerk's office will be **closed** on **Wednesday, October 24<sup>th</sup>**. Plats approved and recorded on October 23<sup>rd</sup> will be available for pickup on the 25<sup>th</sup>.

**Courtney Velasquez**

**Clerk III**

**Fort Bend County Engineering**

301 Jackson St., Suite 401 | Richmond, TX 77469

Email: [Courtney.Velasquez@fortbendcountytx.gov](mailto:Courtney.Velasquez@fortbendcountytx.gov)

Phone: 281-633-7516