



**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

- Right of Way Permit  
 Commercial Driveway Permit

Permit No: 2018-17777

**Applicant:** MCI Metro Access Transmission Services, Corp./Eagle Eye Permitting & Design, LLC

**Job Location Site:** 16500 W Bellfort Boulevard, Sugarland, TX 77998

**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.

On this 6th day of February, 2018, Upon Motion of Commissioner Meyer, seconded by Commissioner Morales, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

**Signature**

By: Charles O. Ay  
for County Engineer

By: N/A  
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded 2-12-2018 Comm. Court No. 15E

Clerk of Commissioners Court  
By: Kende Willis  
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: 2018-17777

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

**(1) COMPLETE APPLICATION FORM:**

- a. Name of road, street, and/or drainage ditch affected.
- b. Vicinity map showing course of directions
- c. Plans and specifications

**(2) BOND:**

- County Attorney, approval when applicable.
- Perpetual bond currently posted.      Bond No: [REDACTED]      Amount: \$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.**

*Charles O. Ay*  
\_\_\_\_\_  
Permit Administrator

1/26/2018  
\_\_\_\_\_  
Date

**MCImetro**  
**ACCESS TRANSMISSION SERVICES CORPORATION**

OUTSIDE PLANT CONSTRUCTION  
FIBER OPTIC CABLE ROUTE

**MCI ONE-FIBER**  
**BUCCEES TO ELLIS CREEK**  
**STAFFORD, TX**

SITE NFID: 1708ANBB.002

PROJECT STATUS: CONSTRUCTION













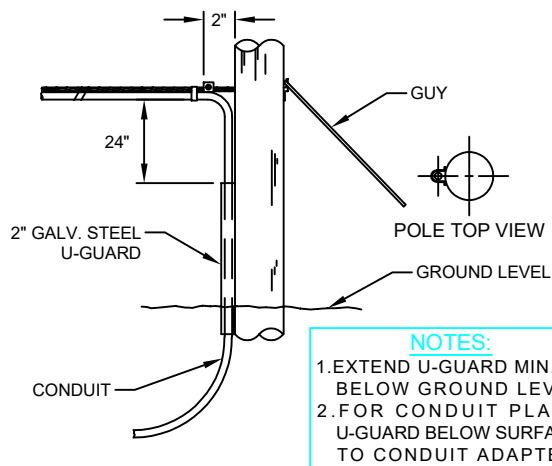




# GENERAL AERIAL CONSTRUCTION DETAILS

## TYPICAL DETAIL "A"

POLE ARRANGEMENT FOR AERIAL TO BURIED

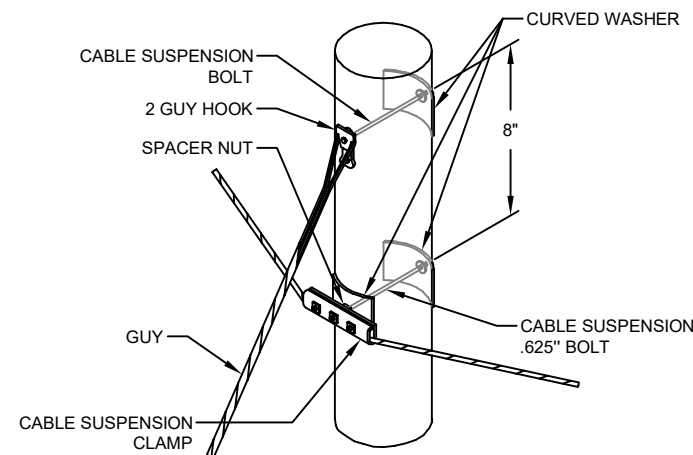


**NOTES:**

1. EXTEND U-GUARD MIN. 6" BELOW GROUND LEVEL
2. FOR CONDUIT PLACE U-GUARD BELOW SURFACE TO CONDUIT ADAPTER.

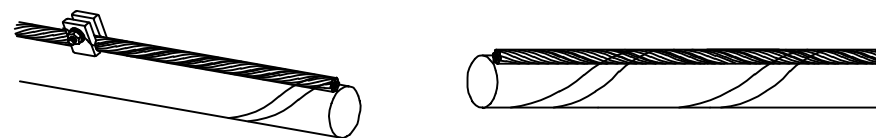
## TYPICAL DETAIL "D"

SUSPENSION STRAND - PULL TOWARD POLE - LESS THAN 5 FEET



## TYPICAL DETAIL "G"

JOINING 045 LASHING WIRE



**FORMING WIRE OVER STUD OF CLAMP**

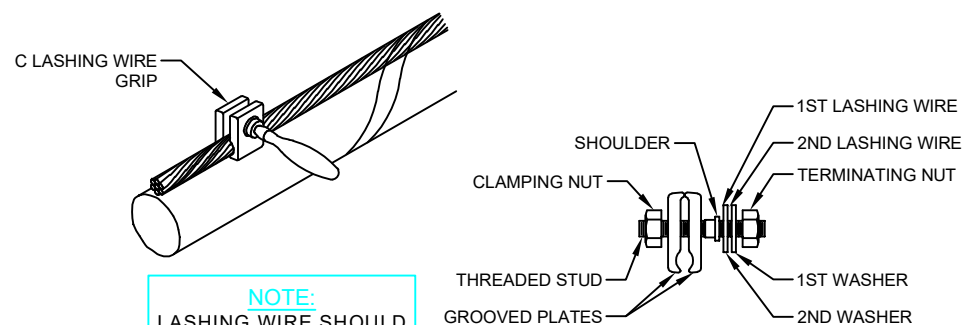
REMOVE ANY SLACK IN THE LASHING WIRE BY MAINTAINING A PULL ON THE WIRE AND TAPPING THE STRAND SHARPLY. THEN FORM THE WIRE OVER THE STUD AND TIGHTEN THE NUT. CUT THE FREE END OF THE LASHING WIRE OFF 0.75" BEYOND THE END OF THE CLAMP.

**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 "H"

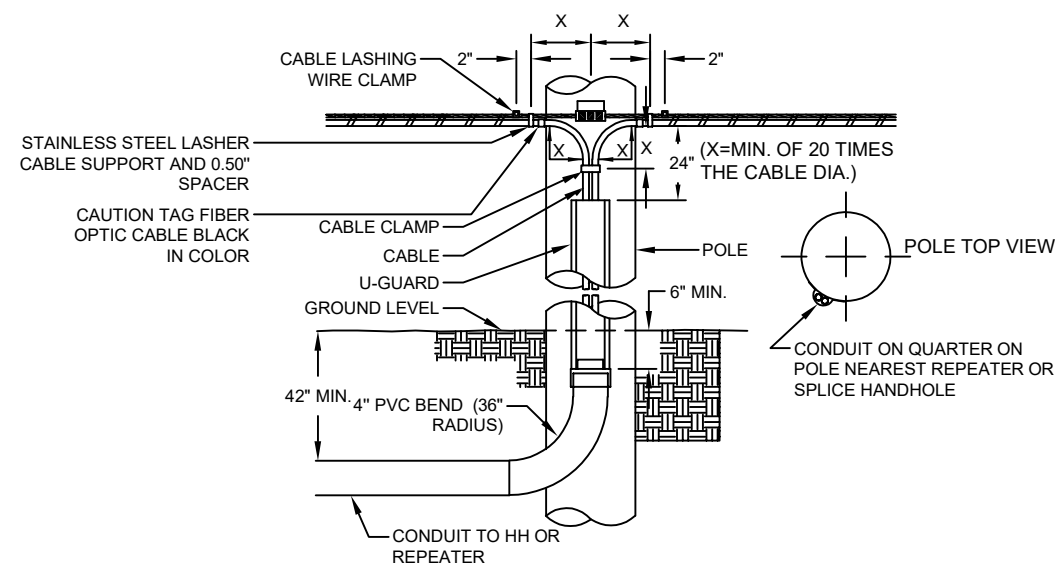
LASHING WIRE GRIP AND CLAMP



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

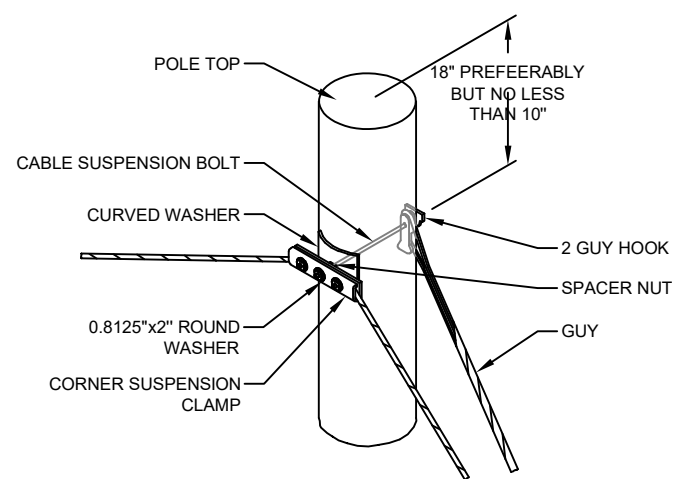
## TYPICAL DETAIL "B"

POLE ARRANGEMENT FOR REPEATER OR HANDHOLE LOCATION



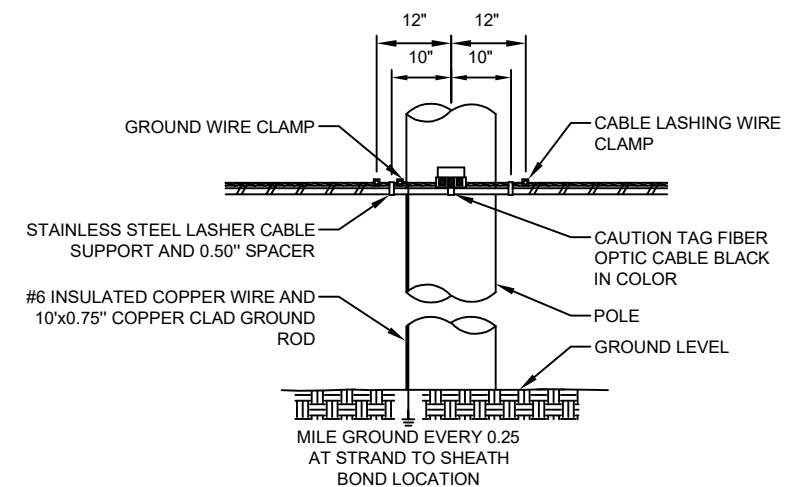
## TYPICAL DETAIL "E"

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



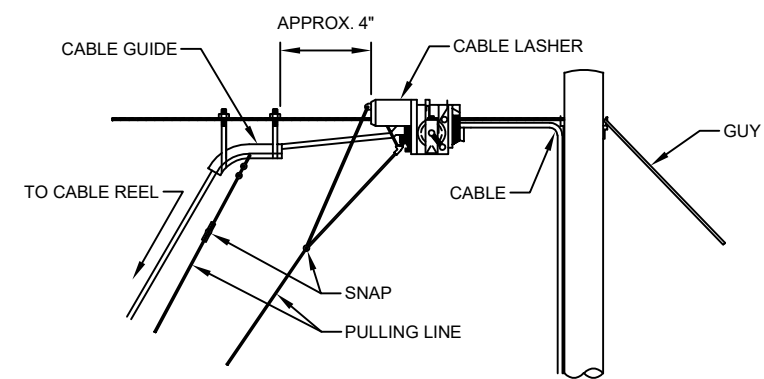
## TYPICAL DETAIL "C"

TYPICAL CABLE & HARDWARE INSTALLATION



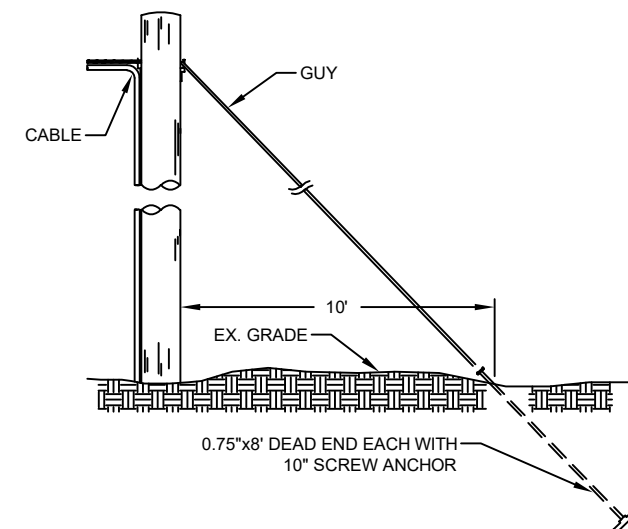
## TYPICAL DETAIL "F"

TYPICAL ARRANGEMENT OF CABLE LASHER AND CABLE GUIDE



## TYPICAL DETAIL "I"

ANCHOR & DOWN GUY



PROJECT: \_\_\_\_\_  
STAFFORD, TX  
BUCCEES TO ELLIS CREEK  
NFID: 1708ANBB.002

MCImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
BUCCEES TO ELLIS CREEK  
STAFFORD, TX

DATE: 12/21/2017  
ENGINEER: EAGLE EYE  
DRAWN BY: DAVID ZAVALA

REVISIONS			
No.	DATE	DESCRIPTION	BY

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"= N/A  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 6A OF 19  
FILE: ECC-BUCCEES







# TRAFFIC CONTROL PLAN DETAILS



PROJECT: \_\_\_\_\_  
STAFFORD, TX  
BUCCEES TO ELLIS CREEK  
NFID: 1708ANBB.002

TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

ROADWAY	POSTED SPEED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN SPACING	BUFFER SPACE
			TAPER	TANGENT		
WEST LAKE HOUSTON PKWY. WILL CLAYTON PKWY. TO UPRR	45 MPH	540'	45'	90'	320'	195'

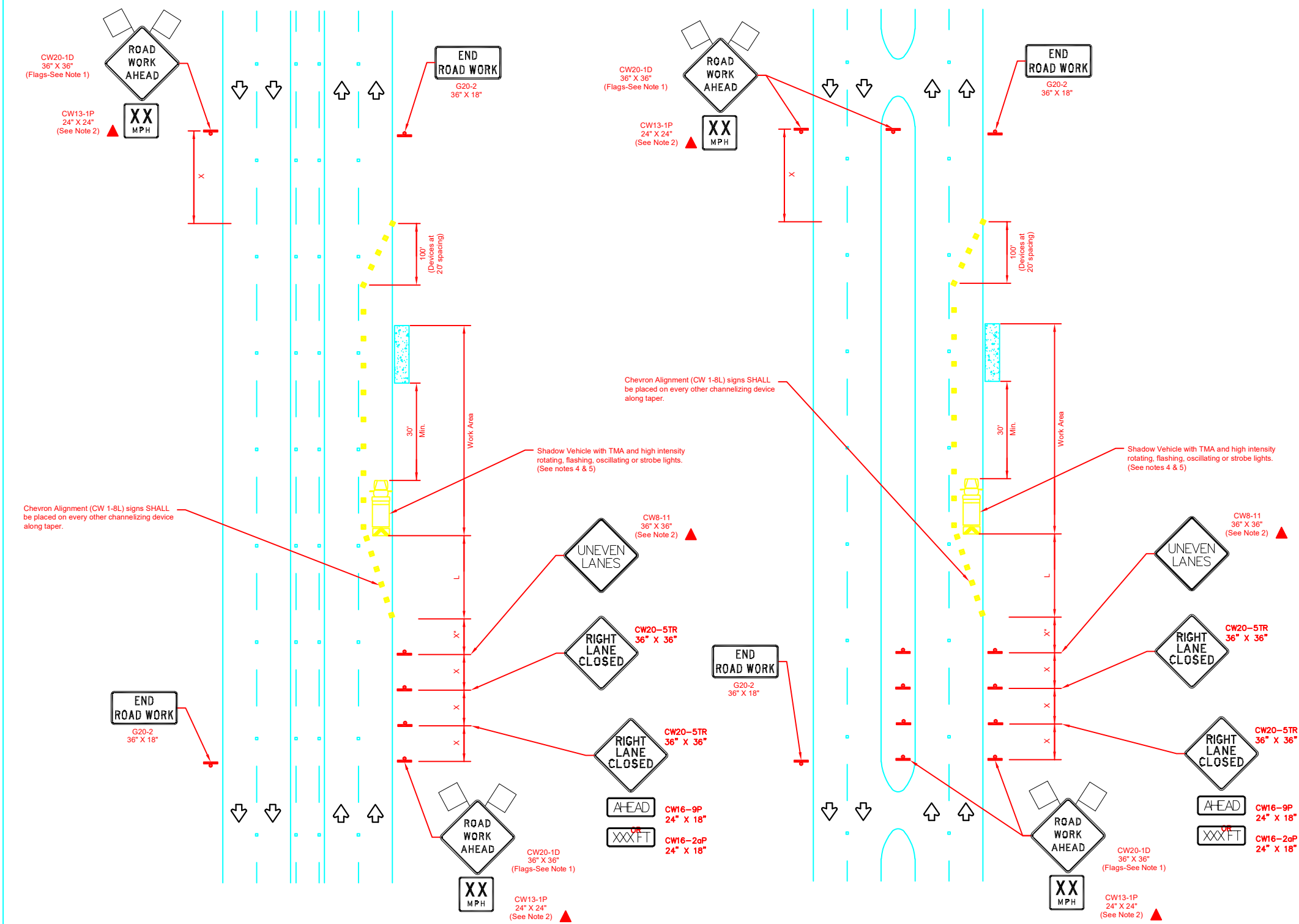
LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths "L"			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = $\frac{WS}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40	L=WS	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L=WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60	L=WS	600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70	L=WS	700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

\* Conventional Roads Only  
\* Taper lengths have been rounded off.  
\*\* L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

### GENERAL NOTES

- Flags attached to signs where shown are OPTIONAL.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
- Contractor shall provide and install traffic control devices in conformance with part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD - Latest edition with revisions) during construction.
- No lanes shall be blocked from 7am to 9am and 4pm to 6:30pm Monday thru Friday.
- Off duty police officers/flaggers are required to direct traffic when applicable.
- If project is within 400 feet from a signalized intersection, the Contractor shall contact Harris County Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.



RIGHT LANE CLOSURE (5 LANE ROAD)

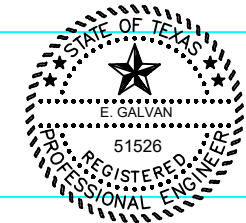
RIGHT LANE CLOSURE (4 LANE BOULEVARD ROAD)

NO.	REVISIONS	DATE	NAME
1	UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH
2			
3			
4			

HARRIS COUNTY ENGINEERING DEPARTMENT



TEO, LLC  
5510 Community DRIVE  
Houston, Texas  
77005  
281-536-5123 OFFICE  
713-668-6334 FAX  
teo@tmail.com  
FIRM # F-8978



PROJECT TITLE:	VZW-5G JARVIS	HCD STANDARD
DRAWN BY:	VERIZON BUSINESS	41
CK'D BY:	TRAFFIC CONTROL PLAN (RIGHT LANE CLOSURE)	SHEET NO:
SCALE:		8A/15
DATE:	4/05/17	APPROVED BY:

DATE: 12/21/2017  
ENGINEER: EAGLE EYE  
DRAWN BY: DAVID ZAVALA

REVISIONS			
No.	DATE	DESCRIPTION	BY

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SCALE  
HORIZONTAL: 1"= N/A  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 08 OF 19  
FILE: ECC-BUCCEES

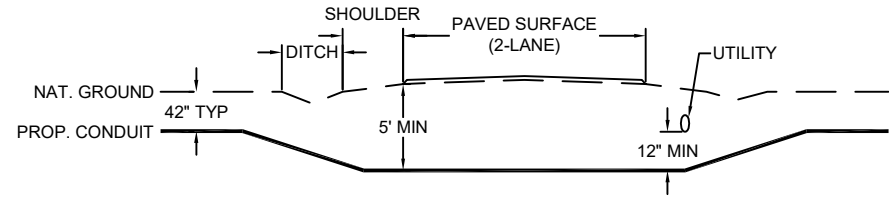
# ROAD CROSSING DETAILS



PROJECT: \_\_\_\_\_  
 STAFFORD, TX  
 BUCCEES TO ELLIS CREEK  
 NFID: 1708ANBB.002

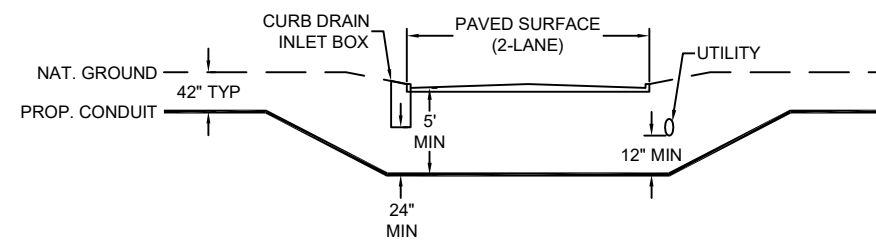
**TYPICAL DETAIL "A"**

TWO LANE - ASPHALT ROAD - NO CURB



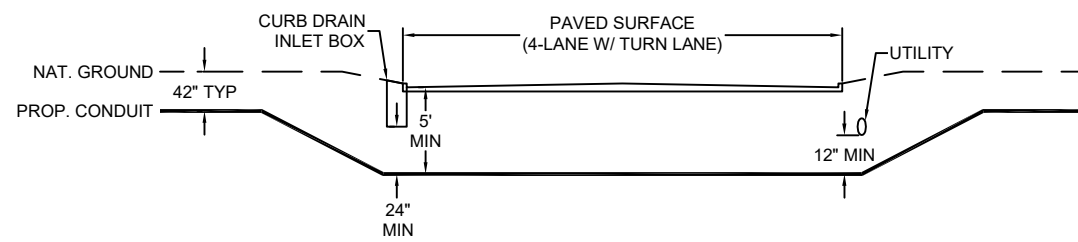
**TYPICAL DETAIL "B"**

TWO LANE - CURBED ROAD



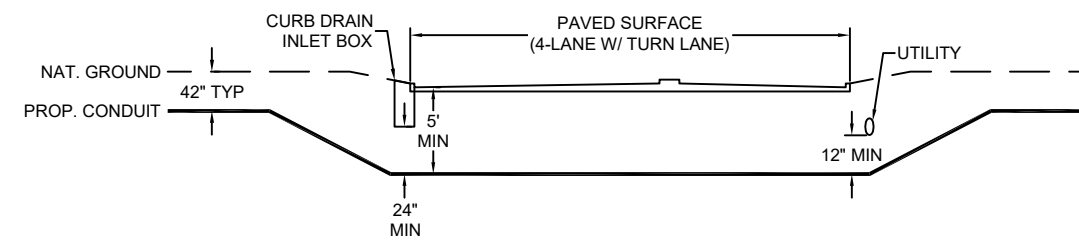
**TYPICAL DETAIL "C"**

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



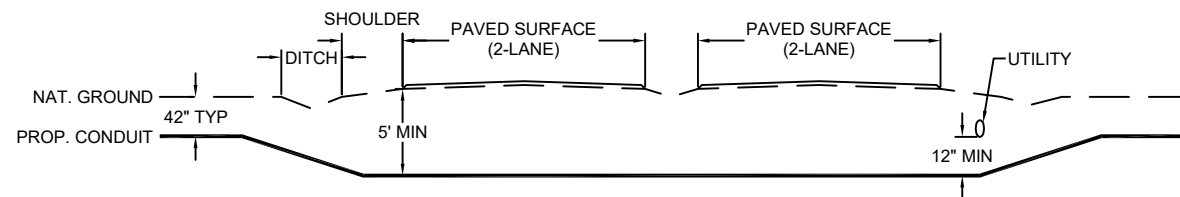
**TYPICAL DETAIL "D"**

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



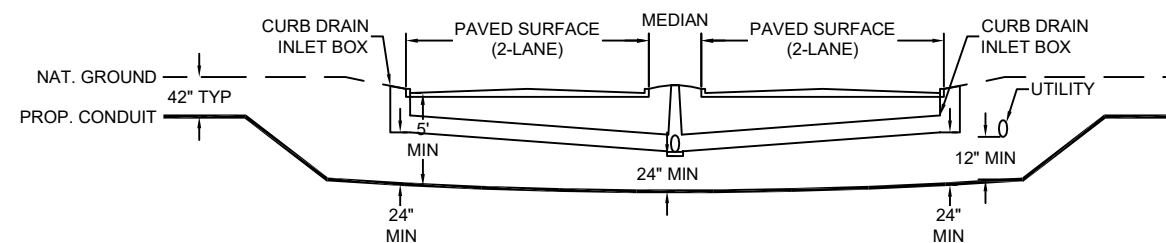
**TYPICAL DETAIL "E"**

4 LANE - SPLIT ASPHALT ROAD - NO CURB



**TYPICAL DETAIL "F"**

4 LANE - SPLIT CURBED ROAD



**McImetro**  
**ACCESS TRANSMISSION SERVICES**  
**CORPORATION**  
 OUTSIDE PLANT CONSTRUCTION  
 TITLE: FIBER OPTIC ROUTE  
 BUCCEES TO ELLIS CREEK  
 STAFFORD, TX

DATE: 12/21/2017  
 ENGINEER: EAGLE EYE  
 DRAWN BY: DAVID ZAVALA

REVISIONS			
No.	DATE	DESCRIPTION	BY

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**SCALE**  
 HORIZONTAL: 1"= N/A  
 VERTICAL: 1"= N/A  
 MP \_\_\_\_\_ TO MP \_\_\_\_\_  
 SHEET 08A OF 19  
 FILE: ECC-BUCCEES



STAFFORD, TX  
HARRIS COUNTY



PROJECT: \_\_\_\_\_

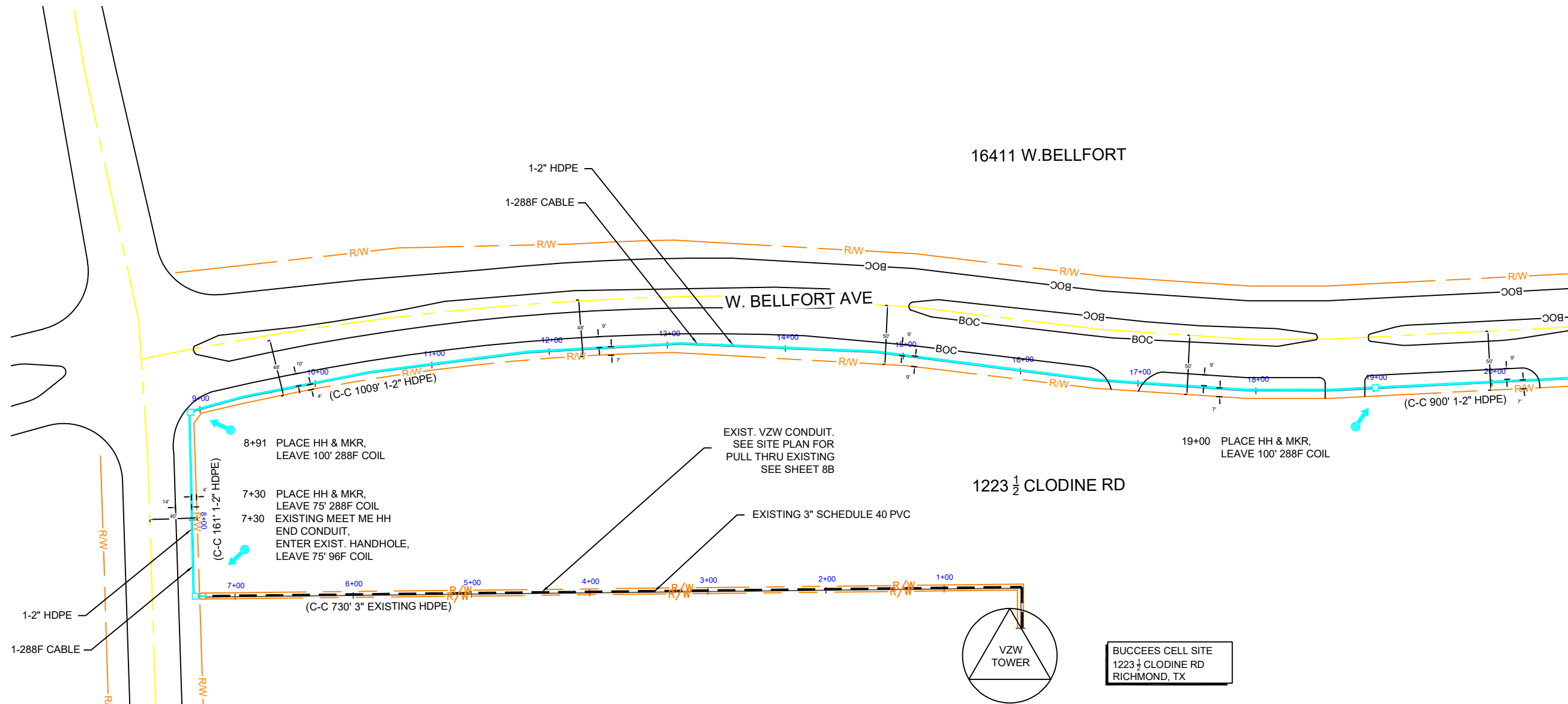
STAFFORD, TX

BUCCEES TO ELLIS CREEK

NFID: 1706AMYX.008

CLARIFICATION NO.	
PLACE HANDHOLE	3
PROP. 1-2" HDPE	1336
PULL 1-288F CABLE	1611
PULL 1-96F CABLE	805
PLACE MARKER	3
EXISTING HDPE	730

SEE SHEET 10 TO MATCH SURVEY STA. 20+66



**McImetro**  
**ACCESS TRANSMISSION SERVICES CORPORATION**

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
BUCCEES TO ELLIS CREEK  
STAFFORD, TX

DATE: 12-16-2017  
ENGINEER: EAGLE EYE  
DRAWN BY: DAVID ZAVALA

REVISIONS		
No.	DATE	DESCRIPTION

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SCALE

HORIZONTAL: 1"= N/A

VERTICAL: 1"= N/A

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

SHEET 9 OF 19

FILE: ECC-BUCCEES



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

STAFFORD, TX  
HARRIS COUNTY



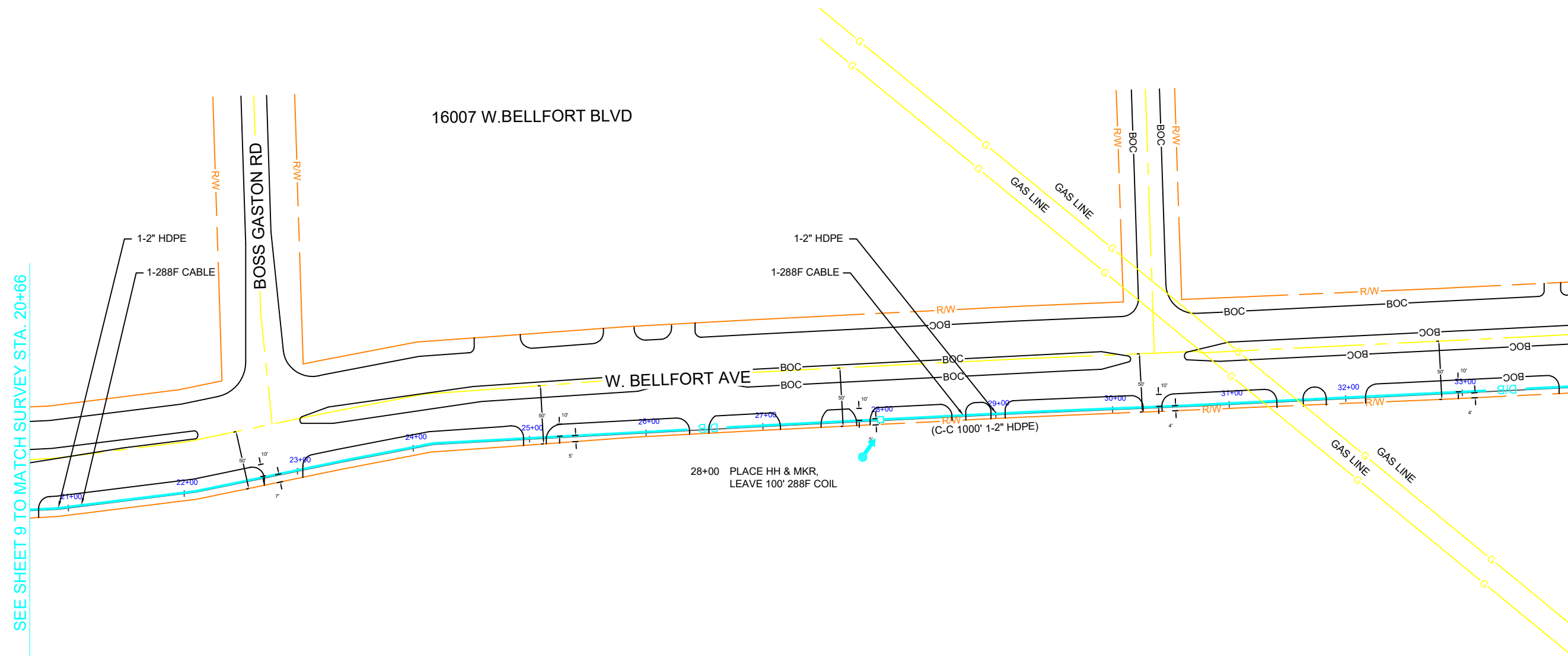
PROJECT: \_\_\_\_\_

STAFFORD, TX

BUCCEES TO ELLIS CREEK

NFID: 1706AMYX.008

CLARIFICATION NO.	
PLACE HANDHOLE	1
PROP. 1-2" HDPE	1326
PULL 1-288F CABLE	1426
PLACE MARKER	1



SEE SHEET 9 TO MATCH SURVEY STA. 20+66

SEE SHEET 11 TO MATCH SURVEY STA. 33+92

**McImetro**  
**ACCESS TRANSMISSION SERVICES**  
**CORPORATION**

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
BUCCEES TO ELLIS CREEK  
STAFFORD, TX

DATE: 12-16-2017

ENGINEER: EAGLE EYE

DRAWN BY: DAVID ZAVALA

REVISIONS		
No.	DATE	DESCRIPTION

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**SCALE**

HORIZONTAL: 1"= N/A

VERTICAL: 1"= N/A

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

SHEET 10 OF 19

FILE: ECC-BUCCEES



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

STAFFORD, TX  
HARRIS COUNTY



PROJECT: \_\_\_\_\_

STAFFORD, TX

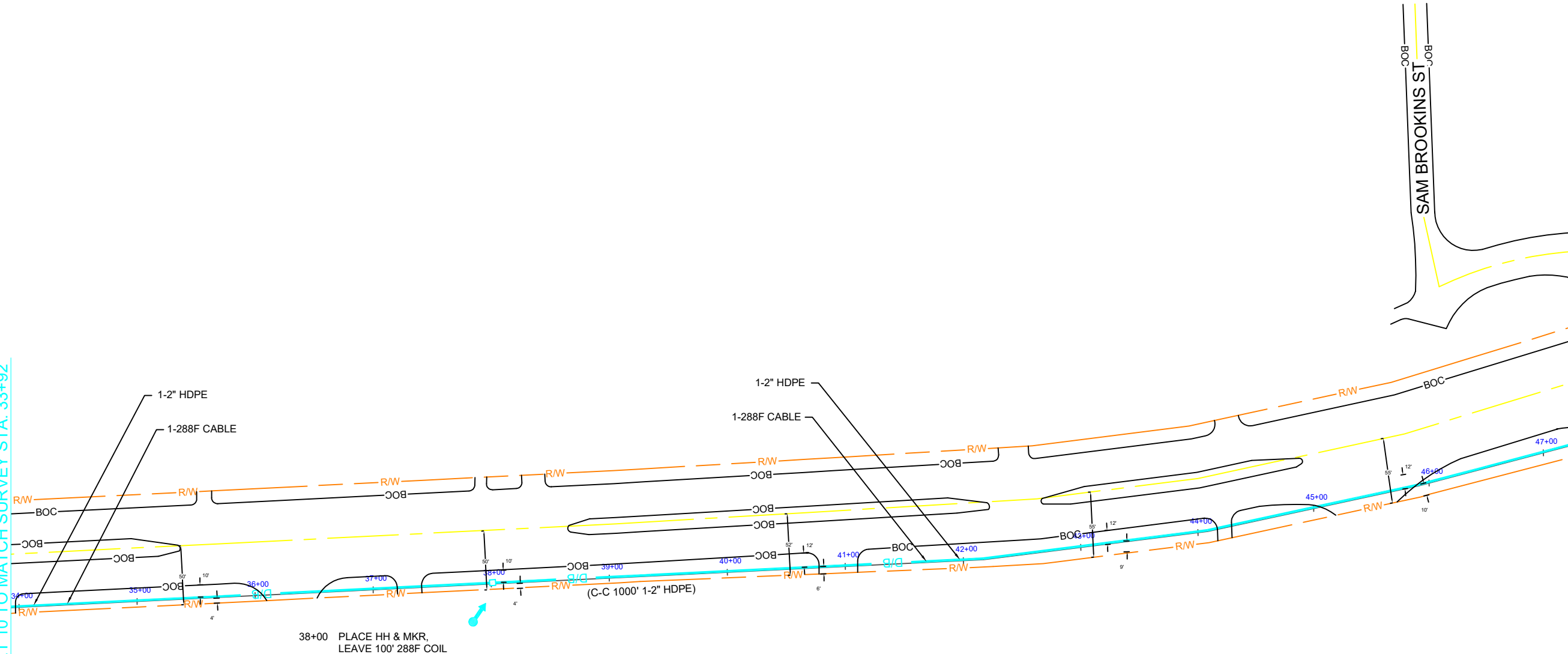
BUCCEES TO ELLIS CREEK

NFID: 1706AMYX.008

CLARIFICATION NO.	
PLACE HANDHOLE	1
PROP. 1-2" HDPE	1333
PULL 1-288F CABLE	1433
PLACE MARKER	1

SEE SHEET 10 TO MATCH SURVEY STA. 33+92

SEE SHEET 12 TO MATCH SURVEY STA. 47+25



38+00 PLACE HH & MKR,  
LEAVE 100' 288F COIL

(C-C 1000' 1-2" HDPE)

SAM BROOKINS ST

**MCImetro**  
**ACCESS TRANSMISSION SERVICES**  
**CORPORATION**

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
BUCCEES TO ELLIS CREEK  
STAFFORD, TX

DATE: 12-16-2017  
ENGINEER: EAGLE EYE  
DRAWN BY: DAVID ZAVALA

REVISIONS		
No.	DATE	DESCRIPTION

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SCALE

HORIZONTAL: 1"= N/A

VERTICAL: 1"= N/A

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

SHEET 11 OF 19

FILE: ECC-BUCCEES



CALL BEFORE YOU DIG  
1-800-545-6005

84 HOURS NOTICE REQUIRED

STAFFORD, TX  
HARRIS COUNTY



PROJECT: \_\_\_\_\_

STAFFORD, TX

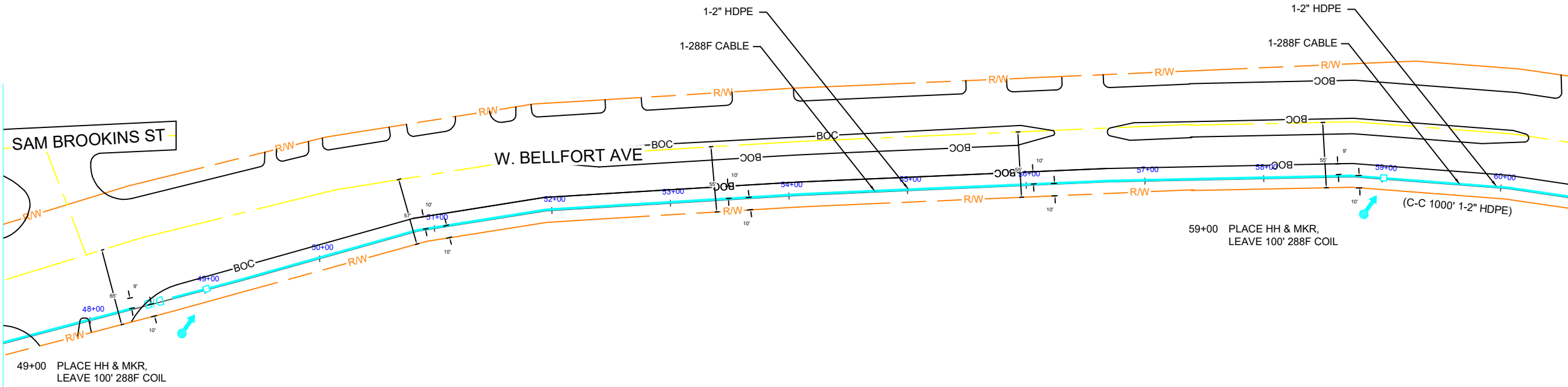
BUCCEES TO ELLIS CREEK

NFID: 1706AMYX.008

CLARIFICATION NO.	
PLACE HANDHOLE	2
PROP. 1-2" HDPE	1335
PULL 1-288F CABLE	1535
PLACE MARKER	2

SEE SHEET 11 TO MATCH SURVEY STA. 47+25

SEE SHEET 13 TO MATCH SURVEY STA. 60+60



49+00 PLACE HH & MKR,  
LEAVE 100' 288F COIL

59+00 PLACE HH & MKR,  
LEAVE 100' 288F COIL

(C-C 1000' 1-2" HDPE)

**McImetro**  
**ACCESS TRANSMISSION SERVICES**  
**CORPORATION**

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
BUCCEES TO ELLIS CREEK  
STAFFORD, TX

DATE: 12-16-2017  
ENGINEER: EAGLE EYE  
DRAWN BY: DAVID ZAVALA

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SCALE

HORIZONTAL: 1"= N/A

VERTICAL: 1"= N/A

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

SHEET 12 OF 19

FILE: ECC-BUCCEES



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



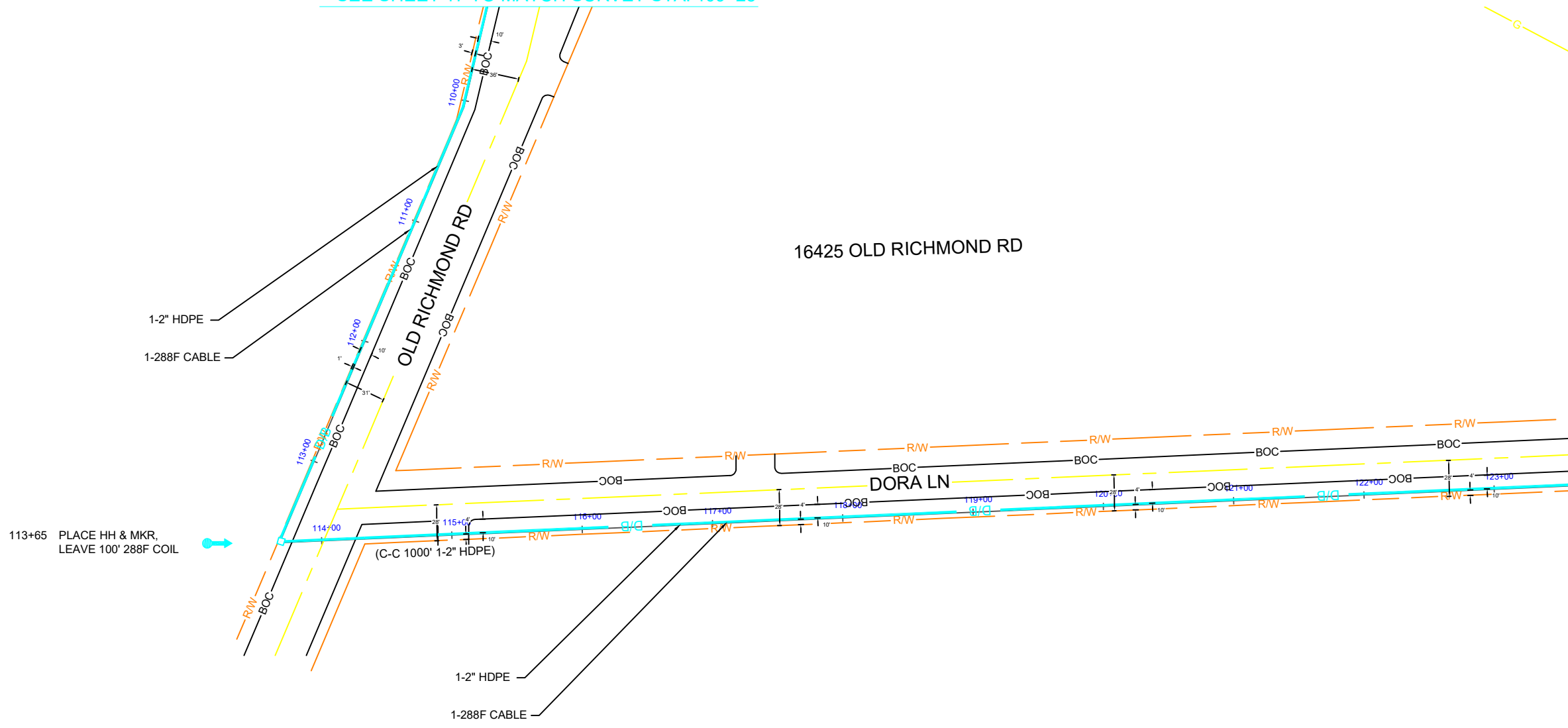








SEE SHEET 17 TO MATCH SURVEY STA. 109+25



SEE SHEET 19 TO MATCH SURVEY STA. 123+59

**PROJECT:**

STAFFORD, TX  
BUCCEES TO ELLIS CREEK  
NFID: 1706AMYX.008

CLARIFICATION NO.	
PLACE HANDHOLE	1
PROP. 1-2" HDPE	1434
PULL 1-288F CABLE	1534
PLACE MARKER	1

**McImetro  
ACCESS TRANSMISSION SERVICES  
CORPORATION**

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE  
BUCCEES TO ELLIS CREEK  
STAFFORD, TX

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No.	DATE	DESCRIPTION

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**SCALE**

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

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

SHEET 18 OF 19  
FILE: ECC-BUCCEES

113+65 PLACE HH & MKR.  
LEAVE 100' 288F COIL



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

STAFFORD, TX  
HARRIS COUNTY



PROJECT: \_\_\_\_\_

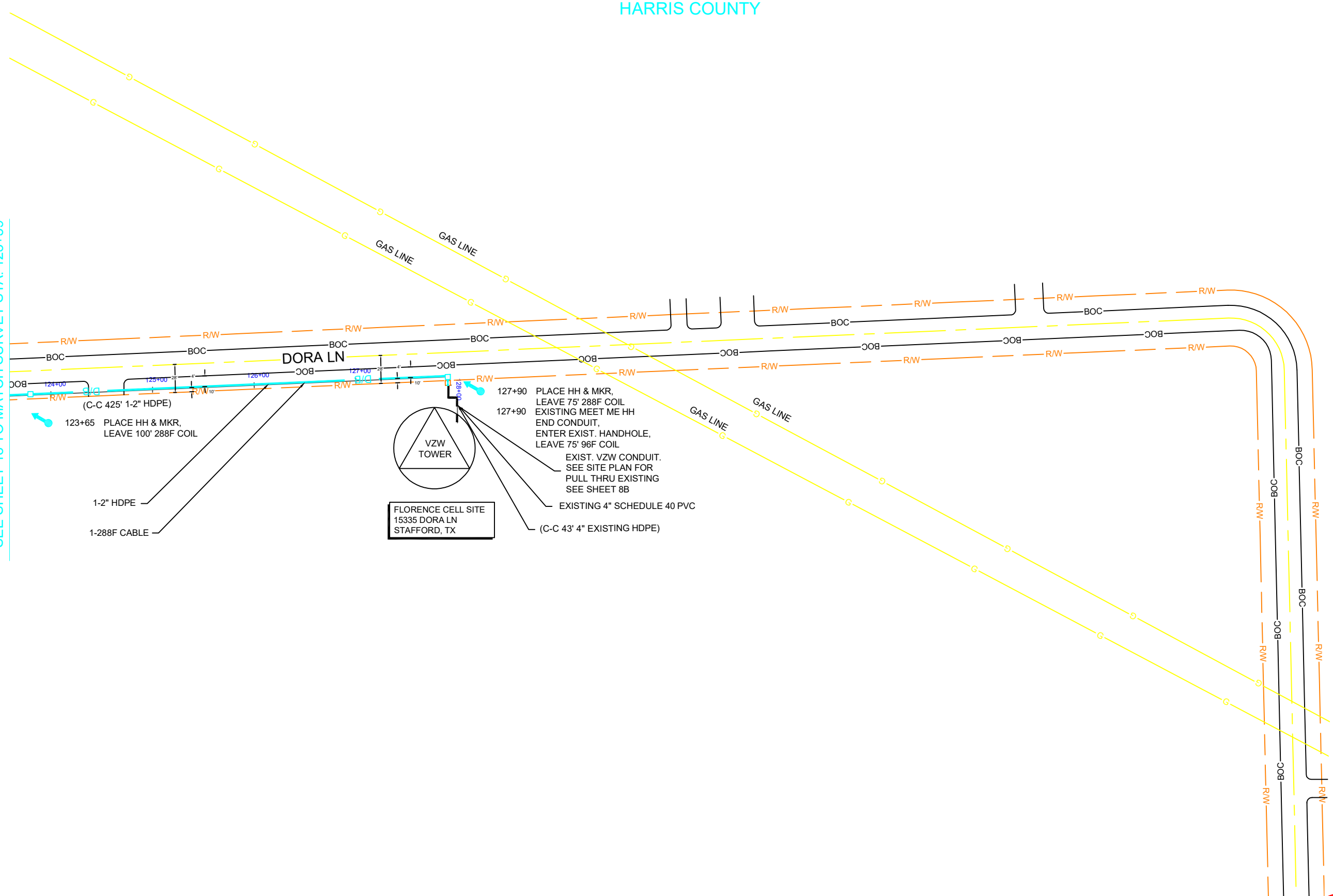
STAFFORD, TX

BUCCEES TO ELLIS CREEK

NFID: 1706AMYX.008

CLARIFICATION NO.	
PLACE HANDHOLE	2
PROP. 1-2" HDPE	431
PULL 1-288F CABLE	606
PULL 1-96F CABLE	118
PLACE MARKER	2
EXISTING HDPE	43

SEE SHEET 18 TO MATCH SURVEY STA. 123+59



- 123+65 PLACE HH & MKR, LEAVE 100' 288F COIL
- (C-C 425' 1-2" HDPE)
- 127+90 PLACE HH & MKR, LEAVE 75' 288F COIL EXISTING MEET ME HH END CONDUIT, ENTER EXIST. HANDHOLE, LEAVE 75' 96F COIL
- EXIST. VZW CONDUIT. SEE SITE PLAN FOR PULL THRU EXISTING SEE SHEET 8B
- EXISTING 4" SCHEDULE 40 PVC
- (C-C 43' 4" EXISTING HDPE)

**MCImetro**  
**ACCESS TRANSMISSION SERVICES CORPORATION**  
OUTSIDE PLANT CONSTRUCTION  
TITLE: FIBER OPTIC ROUTE  
BUCCEES TO ELLIS CREEK  
STAFFORD, TX

DATE: 12-16-2017  
ENGINEER: EAGLE EYE  
DRAWN BY: DAVID ZAVALA

REVISIONS		
No.	DATE	DESCRIPTION

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SCALE  
HORIZONTAL: 1"= N/A  
VERTICAL: 1"= N/A  
MP \_\_\_\_\_ TO MP \_\_\_\_\_  
SHEET 19 OF 19  
FILE: ECC-BUCCEES



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