

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

### Fort Bend County Engineering Department 301 Jackson Suite 401

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

X	Right	of Way Permit
	Comr	nercial Driveway Permit
Perr	nit No:	2018-19864

	have been reviewed and the notic		ctivity in Fort Bend County" and acco riate regulations set by Commissione	
(1) COMPLET	E APPLICATION FORM:	-		
Х	a. Name of road, street, and/or	drainage ditch affect	ed.	
X	b. Vicinity map showing course	of directions		
Х	c. Plans and specifications			
(2) BOND:	1 6			
	County Attorney, approval when applicable.	n		
	Perpetual bond currently posted.	Bond No:	Amount:	
Х	Performance bond submitted.	Bond No:	Amount: \$50,000.00	
	Cashier's Check	Check No:	Amount:	
	GE DISTRICT APPROVAL (WHE	N APPLICABLE):	Date	
We have rev	riewed this project and agree it n	neets minimum requ	5/14/201 Date	8



By:

Drainage District Engineer/Manager

### 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

X Right of Way F Commercial D Permit No: 2018-198	riveway Permit
Applicant: MCI Metro Access Transmission Services	s, Corp./Eagle Eye Permitting & Design,
Job Location Site: 13701 W Bellfort Avenue, Sugar L	and , TX 77498
Bond No. Date of Bond: 5/1/2	
Bolid No. Balte of Bolid. 3/1/2	
The above applicant came to make use of certain Fort Ber Laying, Construction, Maintenance, and Repair of Buried ( Roads, Streets, Highways, and Drainage Ditches in Fort Ber Commissioners Court of Fort Bend County, Texas," as pass Texas, of the Minutes of the Commissioners Court of Fort inconsistant with Chapter 181, Vernon's Texas Statutes ar	Cables, Conduits, and Pole Lines, In, Under, Across or Along nd County, Texas, Under the Jurisdiction of the sed by the Commissioners Court of Fort Bend County, Bend County, Texas, to the extent that such order is not
grounds for job shutdown.  2. Written notices are required:  a. 48 hours in advance of construction s	ready for final inspection, submit notification to Permit nline.org portal.
On this <u>22nd</u> day of <u>May</u> , <u>2018</u> , Upon Motion of Commiss Commissioner, duly put and notice of said above purpose is hereby acknowledged by that said notice be placed on record according to the regu	carried, it is ORDERED, ADJUDGED AND DECREED that said the Commissioners Court of Fort Bend County, Texas, and
Signature	Presented to Commissioners Court and approved.
By: County Engineer	Date Recorded Comm. Court No
N/A	Clerk of Commissioners Court

By:

Deputy

# ACCESS TRANSMISSION SERVICES CORPORATI **MCImetro**

# OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE

# MCI ONE-FIBER HO 0012-108997-KINGSPOINT HOUSTON, TX

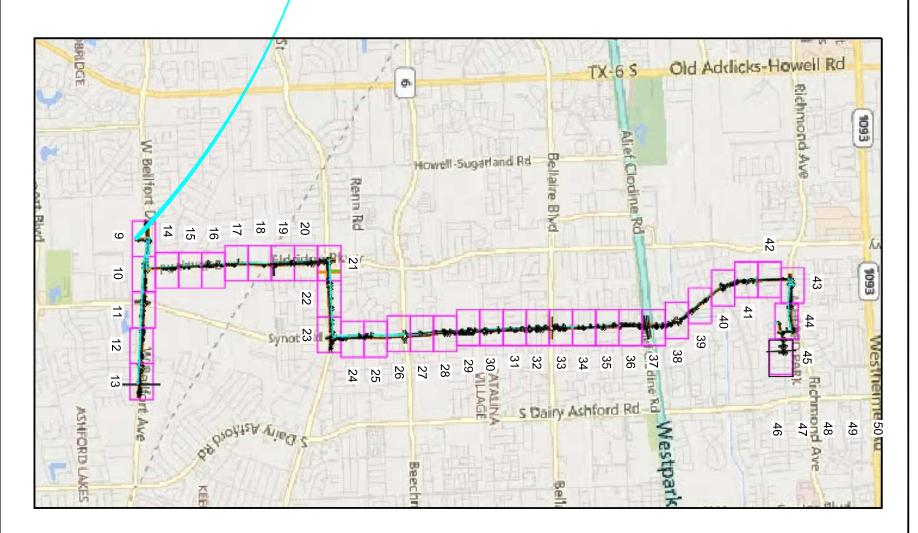
SITE HO 0012-108997

PROJECT STATUS: CONSTRUCTION



### LOCATION MAF HOUSTON, TX HARRIS COUNTY

KINGSPOINT TOWER



### MAP LINE LEGEND PROPOSE BURIFFO CAF

PROPOSED BURIED CABL PROPOSED

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MCImetro
ACCESS TRANSMISSION SERVICES
CORPORATION

### OUTSIDE PLANT CONSTRUCTION

NGINEER: EAGLE EYE

10-26-2017

TITLE: FIBER OPTIC ROUTE HO 0012-108997-KINGSPOINT LATERAL HOUSTON, TX

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HOUSTON, TX HO 0012-108997-KINGSPOINT LATERAL

HO 0012-108997

## CONTACT SHEET

HOUSTON, TX
FORT BEND COUNTY

### PROJECT ENGINEER: PROJECT COORDINATOR: <u>≤</u>

CONSTRUCTION CONTRACTOR: **OUTSIDE PLANT CONSTRUCTION:** 

PROJECT COORDINATOR: CONSTRUCTION MANAGER:

ERVIN CABLE CONSTRUCTION 844-322-2524 AURELIO MALLAMANCE

270-349-0337

UTILITIES

COORDINATOR: MANAGER:

AGENT: MANAGER

MCI UTILITY LOCATE

TERMINAL CONST REP

CIVIL ENGINEER:

SPLICING MANAGER:

TSO MANAGER:

**ENGINEERING CONTRACTOR** 

OFFICE:

PROGRAM MANAGER: LIGHTWAVE ENGINEER:

TEXAS ONE CALL SYSTEM (UTILITY LOCATES)

1-800-545-6005

1-800-624-9675

TXDOT STATE GOVERNMENT

SAMIR GOEL

713-802-5321

FEDERAL GOVERNMENT

N/A

N/A OTHER

PROJECT COORDINATOR:

PROJECT SUPERINTENDENT:

NAME OF FIRM:

PROJECT MANAGER:

OFFICE: CELL: E-MAIL

PRESIDENT:

OFFICE: CELL E-MAIL

NON MEMBERS

### CITY GOVERNMENT

HOUSTON, TX HO 0012-108997-KINGSPOINT LATERAL

HO 0012-108997

**erizon**business

CITY OF HOUSTON
- SANITARY SEWER

UNION PACIFIC RAILROAD

DANIEL PETERS

402-544-8620

RAILROADS

- TRAFFIC - ROAD & BRIDGE - STORM QUALITY - WATER

HARRIS COUNTY

COUNTY GOVERNMENT

MIKE NOWROOZI SAM HABIBI NAEEM HUSAIN RICK KOVACICH ZIA MOHAMMADI ROBERTO GOMEZ BILL CROUCH

832-394-9123 832-394-9124 832-394-9128 832-394-9132 832-394-9134 832-394-9160 832-394-9161

**MCImetro** ACCESS TRANSMISSION SERVICES CORPORATION

HO 0012-108997-KINGSPOINT LATERAL HOUSTON, TX

**OUTSIDE PLANT CONSTRUCTION** TITLE: FIBER OPTIC ROUTE

NGINEER: EAGLE EYE 10-26-2017

ROBERT SANTOS

)	PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.	REPRODUCED, COPIED, OR USED FOR ANY	SSUED IN STRICT CONFIDENCE AND SHALL NOT BE	COMMUNICATIONS SERVICES INC. BOTH BEING	SHALL REMAIN THE PROPERTY OF MCI	CONTRACT, THESE DRAWINGS AND SPECIFICATIONS
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ORIZONTAL: 1"= N/A SCALE 1"= N/A

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# **GENERAL NOTES / CLARIFICATION NOTES**

### **GENERAL NOTES**

- VERIZON BUSINESS COMPRISES THE FOLLOWING OPERATING ENTITIES:

- MCI COMMUNICATIONS SERVICES, INC.
  MCI METRO ACCESS TRANSMISSION SERVICES CORPORATION
  MCI METRO ACCESS TRANSMISSION SERVICES OF VIRGINIA, INC.
  MCI METRO ACCESS TRANSMISSION SERVICES OF MASSACHUSETTS, INC.
  METROPOLITAN FIBER SYSTEMS OF NEW YORK, INC.
- 5 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.
- ω 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.
- 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
- 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
- 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.
- 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.
- œ 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.
- ALL 4" ID CONDUIT WILL BE SCHEDULE 40 (EG.: PVC OR GSP/BSP), OR AS SPECIFIED.

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UNDERGROUND CONDUIT WILL BE PLACED AT  $48^\circ$  MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

## CLARIFICATION NOTES

- - LOCATION

STATION

- 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
- TYPICAL DRAWING NO. AND TYPICAL DETAIL DRAWING NUMBER
- PLANT ACCOUNTING CODE
- SPECIFIED CONDUIT, HANDHOLE/MANHOLE NO., SPECIFIED PURPOSE AND MATERIAL, BRIDGE NO. AND RAILROAD STATION, MATERIAL, POLE NO.

# ADDENDUM NOTES: HARRIS COUNTY - 48 HOUR NOTICE

- Ņ CONTRACTOR SHALL NOTIFY HARRIS COUNTY (48 HOURS) PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES.

  CONTRACTOR(S) ARE TO CONTACT HARRIS COUNTY "PUBLIC REVIEW DEPARTMENT" BY PHONE OR EMAIL.

  - 713-274-3931

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1"= N/A

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### CLARIFICATION NOTES (CONTIN UED

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PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM WATER CROSSING SIGNS PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING HANDHOLES/MANHOLES REMOVE BURIED CABLE MARKER POST/HARDWARE REMOVE CONCRETE BURIED CABLE MARKER POST	RELASH AERIAL CABLE REMOVE AERIAL CABLE PLACE POLE/PUSH BRACE REMOVE POLE/PUSH BRACE JETTING CONDUIT EMBEDMENT PLOW	DIRECT BURY CABLE EXPOSE DIRECT BURIED CABLE EXPOSE DIRECT BURIED CABLE EXPOSE DIRECT BURIED CABLE REMOVE AND DISPOSE OF CABLE PLACE AERIAL CABLE RELOCATE AERIAL CABLE DELASH AERIAL CABLE	PULL CABLE PULL THROUGH DUCT (INNERDUCT) REMOVE CABLE FROM CONDUIT REPOSITION ACTIVE CABLE SLACK	ATTACH CONDUIT TO WALL OR STRUCTURE DETACH CONDUIT FROM WALL OR STRUCTURE CORE BORE ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE	REMOVE CONCRETE ENCASEMENT REMOVE CONCRETE CAP PLAGE HANDHOLE REMOVE EXISTING HANDHOLE RELOCATE HANHOLE REPLACE/SUBSTITUTE HANDHOLE EXCAVATE SPLICE PIT PLACE MANHOLE REMOVE EXISTING MANHOLE REMOVE EXISTING MANHOLE RELOCATE PRECAST MANHOLE RELOCATE PRECAST MANHOLE REMOVE AND RESTORE ASPHALT REMOVE AND RESTORE SIDEWALK REMOVE AND RESTORE SIDEWALK REMOVE AND RESTORE SIDEWALK REMOVE AND RESTORE CURBING	PLACE CONDUIT  PLACE HIGH DENSITY POLYETHYLENE (HDPE)  ROCK ADDER  SLURRY BACKFILL ADDER  EXPOSE CONDUIT  EXPOSE CONDUIT AND RELOCATE  EXPOSE CONDUIT AND REPLACE/SUBSTITUTE  EXPOSE AND REMOVE CONDUIT (ABANDONED)  CONCRETE ENCASE	JACK AND DRY BORE CONDUIT(S)



# MCI OUTSIDE PLANT FOCUS

# FIBER OPTIC CABLE UNCOVERING SYSTEM

- 1. THE TITLE OF THIS PROGRAM, F.O.C.U.S., AN ACRONYM FOR "FIBER OPTIC CABLE UNCOVERING SYSTEM," WAS SELECTED TO REMIND EVERYONE INVOLVED WITH WORKING NEAR MCI'S ACTIVE FIBER OPTIC SYSTEMS TO FOCUS ON PROTECTING THE FACILITIES. IF, DURING THE COURSE OF THE PROJECT, YOU NOTICE ANY ACTIVITY WHICH MAY JEOPARDIZE THE MCI OSP FACILITIES, IT IS YOUR DUTY TO STOP THE WORK AND RE-F.O.C.U.S.
- 2. F.O.C.U.S. RULES MUST BE FOLLOWED ON ALL MCI PROJECTS INVOLVING WORK ON OR NEAR MCI OSP FACILITIES. SAFETY IS MCI'S NUMBER ONE PRIORITY; EVERYONE MUST REFRAIN FROM UNSAFE AND IMPROPER PRACTICES.
- 3. REVIEW OF F.O.C.U.S. IS MANDATORY AT EVERY PRE-BID, PRE-CONSRUCTION SITE MEETING AND DAILY TAILGATE MEETING. F.O.C.U.S. DISCUSSION MUST INCLUDE SITE-SPECIFIC HISTORY, UNIQUE PROBLEMS, FACILITY CONFIGURATIONS THAT MAY BE ENCOUNTERED, AND PAST ERRORS. "THOSE WHO DO NOT LEARN FROM HISTORY ARE DOOMED TO REPEAT IT." DO NOT LET THIS HAPPEN TO YOU.
- 4. ANY WORK NEAR OR REQUIRING HANDLING OF MCI OUTSIDE PLANT FACILITIES CAN ONLY BE PERFORMED WITH AN MCI EMPLOYEE OR CONTRACT REPRESENTATIVE PRESENT -- THIS MEANS OUT OF HIS OR HER VEHICLE AND DIRECTLY MONITORING THE WORK. THE REPRESENTATIVE MUST HAVE A PROPERLY OPERATING CABLE LOCATOR CHECKED FOR ACCURACY EVERY DAY PRIOR TO COMMENCEMENT OF WORK (COMPARISON OF LINE AND DEPTH READINGS TO ACTUAL LINE AND DEPTH OF THE CABLE).
- 5. LOCATE AND POTHOLE REQUIREMENTS:
- PRIOR TO ANY EXCAVATION, THE MCI EMPLOYEE OR CONTRACT REPRESENTATIVE MUST VERIFY THE INITIAL LOCATE MARKS COMPLETED BY MCI OPERATIONS. DO NOT TRUST LOCATE RESULTS COMPLETED BY OTHERS THE MCI OR CONTRACT REPRESENTATIVE MUST LOCATE THE CABLE RUNNING LINE BY MAKING AT LEAST ONE PASS IN EACH DIRECTION. LOCATE RESULTS MUST THEN BE COMPARED WITH PREVIOUS MARKS AND THE AS-BUILTS.
- IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 3 FEET OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE (ALL POTHOLES MUST BE COMPLETED BY HAND DIGGING OR VACUUM EXCAVATION) A MINIMUM OF EVERY 15 FT., THEN EXPOSE THE ENTIRE LENGTH OF THE CABLE BY HAND DIGGING OR VACUUM EXCAVATION.
- IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 5 FEET (BUT NOT CLOSER THAN 3 FEET) OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE THE CABLE A MINIMUM OF EVERY 15 FT.
- IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 5 FEET (BUT NOT CLOSER THAN 3 FEET) OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE THE CABLE A MINIMUM OF EVERY 15 FT.
- THE CABLE WILL ALSO BE POTHOLED AT ANY CHANGE IN THE RUNNING LINE OF MORE THAN 1 FT.
   IN ANY DIRECTION, ANYTIME THE ACCURACY OF THE ELECTRONIC LOCATE IS QUESTIONED, OR
   THE MARKED RUNNING LINE DOES NOT MATCH THE AS-BUILTS.
- EXPOSING REQUIREMENTS:

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- NO MECHANICAL EXCAVATION WITHIN 3 FT. OF OSP FACILITIES WILL BE ALLOWED UNLESS THE
  FACILITIES HAVE FIRST BEEN PROPERLY LOCATED, POTHOLED, POSITIVELY IDENTIFIED,
  CONTINUOUSLY EXPOSED BY HAND DIGGING OR VACUUM EXCAVATION, AND THE FACILITES ARE
  CLIFARLY VISIBLE
- IN ADDITION, MECHANICAL EXCAVATION WITHIN 3 FT. OF OSP FACILITIES REQUIRES ON-SITE PRIOR APPROVAL FROM MCI'S EMPLOYEE OR CONTRACT REPRESENTATIVE.
- 7. PLEASE REFER TO THE LATEST EDITION OF THE MCI OSP HANDBOOK FOR ADDITIONAL DETAILS. KNOW IT AND FOLLOW IT.

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1"= N/A

SCALE

.E: ECC-KINGSPOINT

# MCI OUTSIDE PLANT CONSTRUCTION GENERAL REQUIREMENTS

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HOUSTON, TX

- ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS MUST BE FOLLOWED WITHOUT EXCEPTION.
- PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE SPECIFIC WORK SITE SHALL BE USED AT ALL TIMES. AT A MINIMUM, HARD HAT, SAFETY SHOES/STEEL-TOED BOOTS, AND FLORESCENT ORANGE OR GREEN WORK VEST ARE REQUIRED UPON ENTERING ANY MCI WORK SITE.
- USE OF INTOXICANTS, DRUGS, INHALANTS OR ANY OTHER SUBSTANCES THAT MAY IMPAIR ALERTNESS ARE STRICTLY PROHIBITED.
- CONTRACTORS ARE NOT ALLOWED TO CUT ANY CABLE. CABLES SCHEDULED FOR REMOVAL WILL BE CUT BY MCI OPERATIONS PERSONNEL, AND ONLY AFTER VERIFICATION THAT ALL TRAFFIC HAS BEEN OFF-LOADED.
- EXTREME CAUTION MUST BE USED AT ALL TIMES WHEN WORKING ON OR NEAR ACTIVE CABLES. AN MCI EMPLOYEE OR CONTRACT REPRESENTATIVE MUST APPROVE AND BE PRESENT PRIOR TO AND DURING ALL CABLE HANDLING ACTIVITIES.
- TOOLS AND EQUIPMENT SPECIFICALLY DESIGNED FOR THE JOB AT HAND ARE REQUIRED. USE THE PROPER TOOL FOR THE JOB.
- CONDUIT WORK INVOLVING ACTIVE CABLES REQUIRES SPECIALIZED TOOLS SPECIFICALLY DESIGNED TO ACCESS DUCTS WITH ACTIVE CABLES.
- PROTECTING MCI FACILITIES IS EXTREMELY IMPORTANT; HOWEVER, SAFETY REGARDING YOURSELF AND OTHERS IS THE MOST IMPORTANT PART OF ANY PROJECT.

GINEER: EAGLE EYE

WN BY:

ROBERT SANTOS

DATE: 10-26-2017	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION									HO 0012-108997	HO 0012-108997-KINGSPOINT
	TITLE: FIBER OPTIC ROUTE  HO 0012-108997-KINGSPOINT LATERAL HOUSTON, TX									)97	INT LATERAL

# CLARIFICATION SUMMARY SHEET PROJECT SPECIFIC

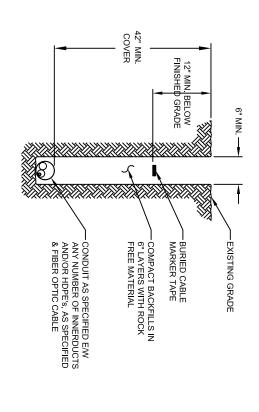
Verizonbusiness

PROJECT CLARIFICATION SUMMARY		
DESCRIPTION	QUANTITY	UNIT
PLACE (30"x60"x30") HANDHOLE	65	ΕA
PLACE 1-2" HDPE (SDR 11) CONDUIT	43,134	듀
PULL 1-864F CABLE (INCLUDES 7150' IN COILS)	4,233	듀
PULL 1-72F CABLE (INCLUDES 150' IN COILS)	1,126	듀
PLACE (BURIED CABLE) MARKER	63	ΕA
EXISTING 1-2" HDPE (SDR 11) CONDUIT	488	듀

DATE: 10-26-2017  ENGINEER: EAGLE ET  DRAWN BY: ROBER  REVISIONS  No. DATE  1 1203/17  1 ST REVISIO  1 1 ST REVISIO  2 SEWICES IN STRICT, THESE DRAWNISE  EXCAPT AS MAY BE OTHERWISE  CONTRACT, THESE DRAWNISE  CONTRACT, THESE DRAWNISE  CONTRACT, THESE DRAWNISE  SCALE  HORIZONTAL: 1"=  VERTICAL: 1"=  VERTICAL: 4B  OF  FILE: ECC-KINGSPOIN	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION			PROJECT:  HOUSTON, TX  HO 0012-108997-KINGSPOINT  HO 0012-108997
BERT SANTOS  NS  NS  NS  NSION  RS  NSION  RS  NSION  RS  NSION  NSION	TITLE: FIBER OPTIC ROUTE HO 0012-108997-KINGSPOINT LATERAL HOUSTON, TX	-		X X INT LATERAL
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TOE OF SLOPE	TOP OF SLOPE	GUARDRAIL	FENCE LINE F/LO	PROPERTY LINE	TAX, CITY, COUNTY, OR STATE BOUNDARY LINE	DITCH LINE	BACK OF CURB	EDGE OF PAVEMENT	EDGE OF ROADWAY (GENERIC)	RIGHT-OF-WAY ——— RW	CENTERLINE C/L	AUXILLARY TRACKS	MAIN TRACKS	UNDERGROUND UTILITY (TELEPHONE)	AERIAL UTILITY (ELECTRIC)	TO BE REMOVED OR ABANDONED (SHOWN FOR HDPE)	REMOVE CABLE	FUTURE CABLE	DIRECTIONAL BORE (& PLACE CONDUIT)	JACK AND BORE	CORE BORE	(WIDTH AS INDICATED)		STEEL CASING XXXXXX	BSP/GSP OR SPLIT BSP/GSP CONDUIT	PVC OR SPLIT PVC CONDUIT	DIRECT BURIED HDPE	FOGWIRE CABLE	SUBMARINE CABLE	AERIAL CABLE	DIRECT BURIED CABLE	
		-1	)—F/L F/L ——O—				BOC	EOP		V		+	+		 	* -	*		_DB			-	48"				_ _ _ _	FOGW-	SUBM ———	A	EXISTING	
	V V V V V V	]-	F/LO				BOC	EOP			C/L	+	+			*	X		_DB				48"				 	FOGW-	SUBM-	A	PROPOSED	SYMBOLS
	CAUTION NOTE		RAILROAD SIGNAL CONTROL BOX	FIRE HYDRANT	GAS VALVE		WATER METER	BRIDGE	CULVERT (SIZE AS INDICATED)		ROND AND GROTIND	RISER ATTACHMENT LOCATION	ACCOON! CODE CHANGE (BORIED TO AENIAL)		PUSH BRACE (EXISTING POLE)	SIDEWALK ANCHOR AND GUY	ANCHOR AND GUY	OVERHEAD GUY (ARROW IN DIRECTION OF PULL)	GUY ONLY	ANCHOR ONLY	POLE	HANDHOLE, MANHOLE OR PULLBOX	UTILITY COVER DEPTH	ROCK PROBE (DEPTH AS INDICATED)		PERMIT TRACKING FORM IDENTIFIER	DASHED = NOT FOUND IN FIELD	MILE POST MARKER NOTE:	TUBULAR MARKER, & ISOLATOR PROTECTOR-(E)	FLAT MARKER-(C)  TUBULAR MARKER-(D)	STEEL MARKER AND SIGN-(A)	
SUN OPTIO	CAUTION CARLE	ON TO	. 🗆	<u></u>	ģ	(	⊗ ]			1 <mark>  B&amp;G</mark>		$\square$			30'-5-84		P=	OHG 92: 10M		$\triangle$	0		<b>4</b> 8")	•	42"	P.T.F. 187	STA. STA. STA.			(A) (B) (C) (D) (E)	STA MKF	1.#
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CC-KINGSPOINT	MP TO MP	'ERTICAL: 1"=	SCALE  HORIZONTAL: 1"= N/A	COMMUNICATIONS SERVICES INC. BOTH BI ISSUED IN STRICT CONFIDENCE AND SHALL NO REPRODUCED, COPIED, OR USED FOR PURPOSE WITHOUT SPECIFIC WRITTEN PERMIS	EXCEPT AS MAY BE OTHERWISE PROVIDED CONTRACT, THESE DRAWNIGS AND SPECIFICAT SHALL REMAIN THE PROPERTY OF			1 12/03/17 1ST REVISION	No. DATE DESCRIPTION B:	DRAWN BY: ROBERT SANTOS	DATE: 10-26-2017		OU	TSID	E PLAE: FIBE	CImetr SMISS PORAT NT CON ER OPT KINGSF STON,	ION S FION  STRU  TIC RC POINT	JCTIO DUTE	N	:									HO 0012-108997	HOUSTON, TX HO 0012-108997-KINGSPOINT LATERAL	PROJECT:	<b>Verizon</b> businese

### TRENCH & PLACE CONDUIT TYPICAL DETAIL "A"



### CROSS SECTION OF PROPOSED HDPE TYPICAL DETAIL "B"

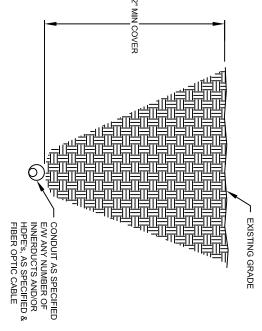
**CONSTRUCTION DETAILS** 



### DIRECTIONAL BORE CROSS SECTION FOR CONDUIT TYPICAL DETAIL

HOUSTON, TX
HO 0012-108997-KINGSPOINT LATERAL
HO 0012-108997

**Verizon**business



	42" MIN COVER	
INNERDUCTS AND/OR HDPE'S, AS SPECIFIED & FIBER OPTIC CABLE		EXISTING GRADE

### 3" CORE BORE — 3" O.D. DIAMETER CORE BORE —1-2.375" O.D. HDPE EPOXIED INTO 3" DIAM. CORE BORE -1-2.375" O.D. HDPE

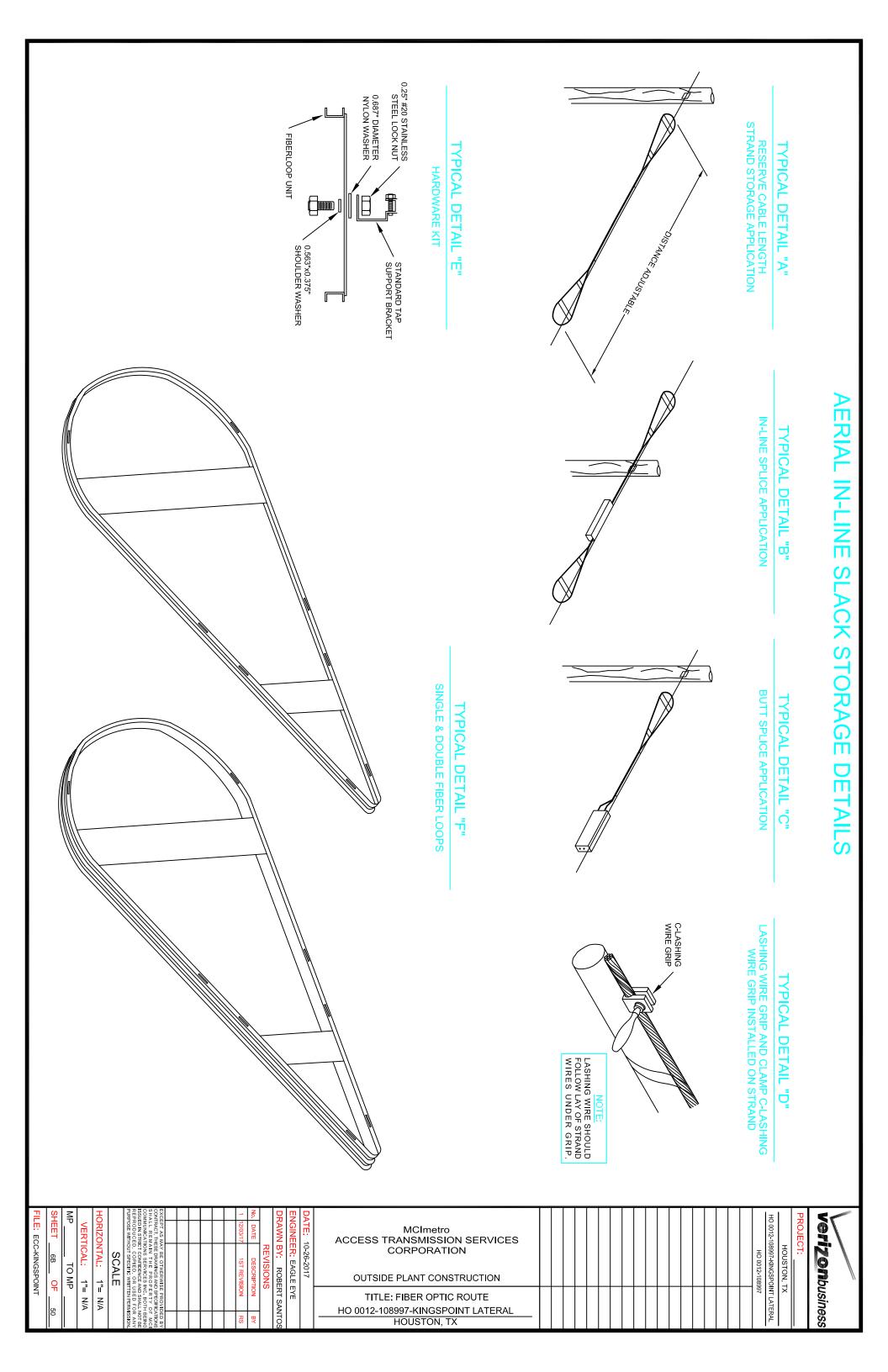
TYPICAL DETAIL "D"

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

- CONCRETE OR
ROCK HEADWALL
(WHERE OCCURS)

FILE: ECC-KINGSPOINT	SHEET 06 OF	MP TO MP	VERTICAL: 1"	HORIZONTAL: 1"=	SCALE	SHALL REMAIN THE PROPE SCHALL REMAIN THE PROPE COMMUNICATIONS SERVICES IN ISSUED IN STRETT CONFIDENCE AN REPRODUCED, COPIED, OR U PURPOSE WITHOUT SPECIFIC WRITT	S MAY BE OTHERWI		1 12/03/17 1ST REVISION	No. DATE DESCRIPTION	REVISIONS	DRAWN BY: ROBERT	ENGINEER: EAGLE E	DATE: 10-26-2017	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION
1	50		"= N/A	= N/A		NC. BOTH BEING ND. SHALL NOT BE USED FOR ANY TTEN PERMISSION.	g '''		ON RS	ION BY		RT SANTOS	:YE		TITLE: FIBER OPTIC ROUTE HO 0012-108997-KINGSPOINT LATERAL HOUSTON, TX

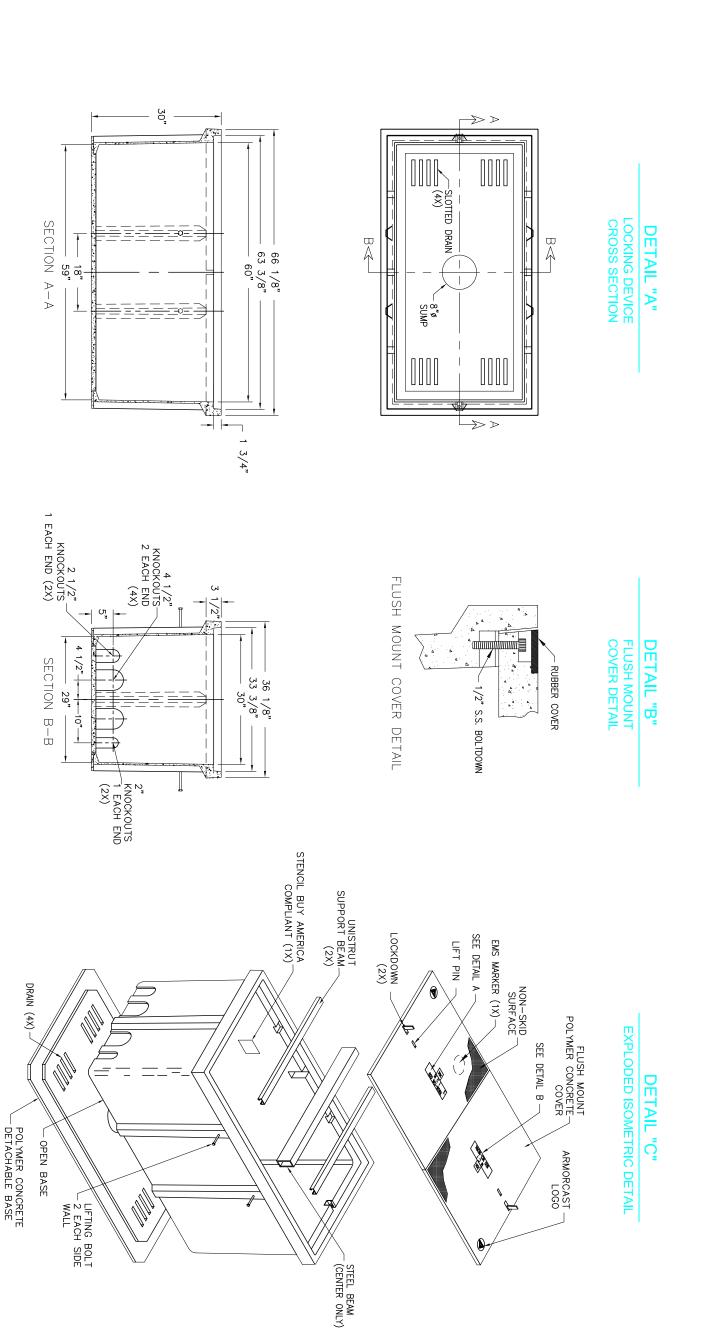
### REMOVE ANY SLACK IN THE LASHING WIRE BY MAINTAINING A PULL ON THE WIRE AND TAPPING THE STRAND SHARPLY. THEN FORM THE WIRE OVER THE STUD AND TIGHTEN THE NUT. CUT THE FREE END OF THE LASHING WIRE OFF 0.75" BEYOND THE END OF THE CLAMP. CABLE SUSPENSION - CLAMP 2" GALV. STEEL U-GUARD CONDUIT-CABLE SUSPENSION— BOLT FORMING WIRE OVER STUD OF CLAMP SUSPENSION STRAND - PULL TOWARD 24" SPACER NUT 2 GUY HOOK — POLE ARRANGEMENT FOR **JOINING 045 LASHING WIRE** POLE - LESS THAN 5 FEET TYPICAL DETAIL "A" TYPICAL DETAIL "G" FYPICAL DETAIL "D" **VERIAL TO BURIED** 1.EXTEND U-GUARD MIN. 6" BELOW GROUND LEVEL 2. FOR CONDUIT PLACE U-GUARD BELOW SURFACE TO CONDUIT ADAPTER. POLE TOP VIEW -GUY - GROUND LEVEL FORM THE LASHING WIRE AROUND THE STRAND AND PLACE IT BELOW THE STUD AND BETWEEN THE SECOND WASHER AND STUD SHOULDER. - CURVED WASHER CABLE SUSPENSION .625" BOLT FORMING LASHING WIRE ROUND STRAND GENERAL AERIAL CONSTRUCTION DETAILS STAINLESS STEEL LASHER CABLE SUPPORT AND 0.50" SPACER CAUTION TAG FIBER -OPTIC CABLE BLACK IN COLOR C LASHING WIRE -GRIP LASHING WIRE SHOULD FOLLOW LAY OF STRAND WIRES UNDER GRIP. CABLE SUSPENSION BOLT -42" MIN.<sub>4"</sub> PVC BEND (36"-RADIUS) CORNER SUSPENSION-CLAMP CABLE LASHING— WIRE CLAMP GROUND LEVEL 0.8125"x2" ROUND WASHER CURVED WASHER -CABLE CLAMP POLE ARRANGEMENT FOR REPEATER SUSPENSION STRAND - PULL AWAY U-GUARD LASHING WIRE GRIP AND CLAMP FROM POLE - 5 FEET OR MORE CABLE-POLE TOP CONDUIT TO HH OR REPEATER TYPICAL DETAIL "B" OR HANDHOLE LOCATION TYPICAL DETAIL "H" TYPICAL DETAIL "E" GROOVED PLATES-THREADED STUD CLAMPING NUT -(x) × (x=MIN. OF 20 TIMES) (x=MIN. OF 20 TIMES)SHOULDER - 6" MIN. 8" PREFEERABLY BUT NO LESS THAN 10" -POLE -GUY -SPACER NUT -2 GUY HOOK CONDUIT ON QUARTER ON POLE NEAREST REPEATER OR SPLICE HANDHOLE - 2ND WASHER 1ST LASHING WIRE 1ST WASHER TERMINATING NUT 2ND LASHING WIRE POLE TOP VIEW #6 INSULATED COPPER WIRE AND-10'x0.75" COPPER CLAD GROUND ROD STAINLESS STEEL LASHER CABLE — SUPPORT AND 0.50" SPACER TO CABLE REEL -CABLE GUIDE: GROUND WIRE CLAMP TYPICAL ARRANGEMENT OF CABLE LASHER AND CABLE GUIDE TYPICAL CABLE & HARDWARE INSTALLATION MILE GROUND EVERY 0.25 AT STRAND TO SHEATH BOND LOCATION TYPICAL DETAIL "C" APPROX. 4" TYPICAL DETAIL "I" 0.75"x8' DEAD END EACH WITH-10" SCREW ANCHOR PICAL DETAIL "F" EX. GRADE: PULLING LINE CHOR & DOWN GUY -SNAP 10" CABLE — CABLE LASHER — CAUTION TAG FIBER OPTIC CABLE BLACK IN COLOR POLE -CABLE LASHING WIRE CLAMP **GROUND LEVEL** ₽ HO 0012-108997-KINGSPOINT LATERAL RIZONTAL: 'erizonbusiness SINEER: EAGLE EYE MCImetro **ECC-KINGSPOINT** ACCESS TRANSMISSION SERVICES 10-26-2017 HOUSTON, TX CORPORATION НО 0012-108997 SCALE TO MP ROBERT SANTOS **OUTSIDE PLANT CONSTRUCTION** 유 1"= N/A 1"= N/A TITLE: FIBER OPTIC ROUTE HO 0012-108997-KINGSPOINT LATERAL HOUSTON, TX



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

'erīzonbusiness

HOUSTON, TX



800

DETAIL A

MCI-WORK

800

MCI-WORK

SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN

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

MINIMUM FAILURE LOAD: 45,000 LBS

ZONTAL:

1"= N/A

1"= N/A

TO MP

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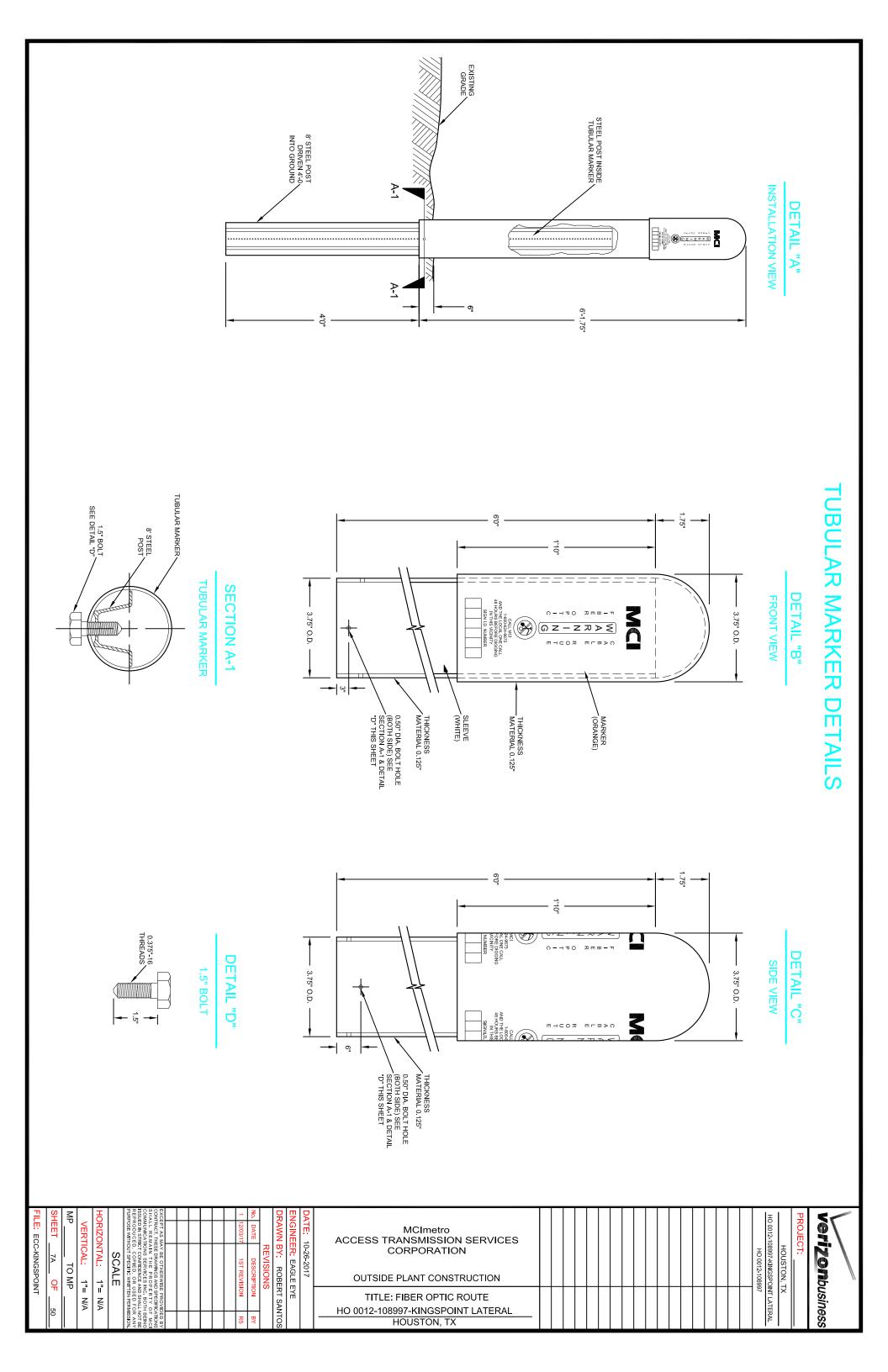
SCALE

30K STANDARD HANDHO
30"x60"x30" POLYMER CONCRETE FLUSH MOUNT
MEETS SCTE/ANSI 77-TIER 22 LOADING CRITERIA
ADDITIONAL REQUIREMENTS:
DESIGNED LOAD: 30,000 LBS

FLUSH MOUNT ASSEMBLY

DETAIL B



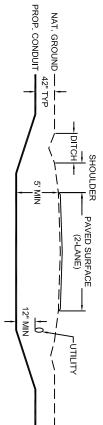


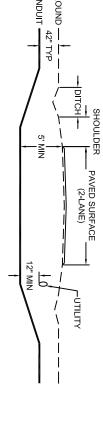
### CW13-1P 24" X 24" (See Note 2) MPH RIGHT LANE CLOSURE (4 LANE BOULEVARD ROAD) ♦ \ ⟨} ⟨} TRAFFIC CONTROL PLAN DETAILS \$ \$ ♦ AHEAD CW16-9P 24" × 18" CW16-2aP 24" × 18" SCALEGES GENERAL NOTES DATE: T.S. APPROVED BY: CK'D BYS S. DAIRY ASHFORD TRAFFIC CON RICHMOND AVE. ELDRIDGE PKWY BISSONNET W BELFORT AVE TEO, LLC 5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-688-8334 FAX teoll@@mail.com FIRM# F-8978 ROADWAY SHEET DESCRIPTION BUSINESS TRAFFIC CONTROL PLAN (RIGHT LANE CLOSURE As should be used anythine it can be positioned 30 to 100 feet. It advance of the hout advance of the hout advances by affecting the performance or quality of the work. It workers are no work conditions require the traffic control to remain in place, Type 3 Barricades see may be substituted for the Shadow Vehdel and TMA. with TMAs may be positioned off the paved surface, next to those shown in e shown are OPTIONAL. strated are REQUIRED, except those denoted with the triangle symbol are ITROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER equipment should be parked near the right-of-way line and not parked on the traffic control devices in conformance with part VI of Texas Manual on INMUTCD - Latest edition with revisions) during construction. 45 MPH POSTED SPEED 45 MPH 45 MPH 45 MPH SIGNATURE: atest edition with revisions) during construction. 4 Jam to 630pm Monday thu Friday. direct traffic when applicable, lersection, the Contractor shall contact Harris County tenance at (713) 881-3210 five (5) days prior to the start of TAPER LENGTH VZW 5G JARVIS 540' 540 540' 540' 2/17/2018 45 45 45 45 90' 90' 90' 90' SIGN SPACING 320' 320' 320 320 320 SHEET NO: HCED STANDARD BUFFER SPACE 195' 195 195' 195' 195' ₹ ENGINEER: EAGLE EYE FILE: ECC-KINGSPOINT DRAWN BY: HORIZONTAL: 1"= N/A HOUSTON, TX HO 0012-108997-KINGSPOINT LATERAL **Verizon**business VERTICAL: MCImetro ACCESS TRANSMISSION SERVICES 10-26-2017 CORPORATION HO 0012-108997 SCALE TO MP ROBERT SANTOS 1"= N/A **OUTSIDE PLANT CONSTRUCTION** 유 TITLE: FIBER OPTIC ROUTE HO 0012-108997-KINGSPOINT LATERAL HOUSTON, TX

# ROAD CROSSING DETAILS

**Verizon**business

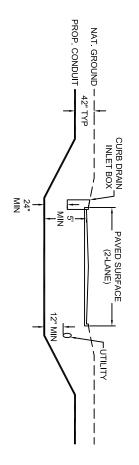
TWO LANE - ASPHALT ROAD - NO CURB TYPICAL DETAIL "A"





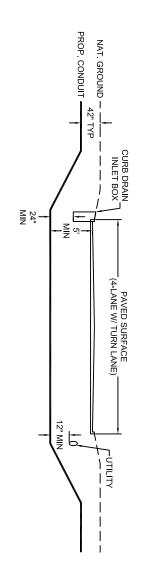
### TYPICAL DETAIL "B"

### TWO LANE - CURBED ROAD



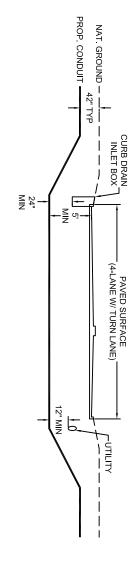
### TYPICAL DETAIL "C"

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



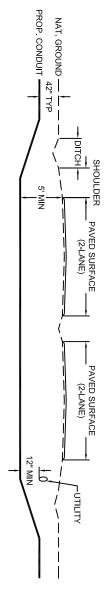
### TYPICAL DETAIL "D

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



### TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



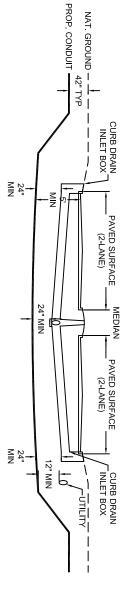
### TYPICAL DETAIL "F"

JGINEER: EAGLE EYE

10-26-2017

WN BY: ROBERT SANTOS

4 LANE - SPLIT CURBED ROAD



ORIZONTAL: 1"= N/A

SCALE

VERTICAL: 1"= N/A

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MCIme ACCESS TRANSMIS CORPORA	SION SERVICE

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC ROUTE
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MCImetro CESS TRANSMISSION SERVICES CORPORATION									HO 0012-100397-101140	0012-108007-
OUTSIDE PLANT CONSTRUCTION									108997	200
TITLE: FIBER OPTIC ROUTE 0 0012-108997-KINGSPOINT LATERAL HOUSTON. TX									)7	_

## CELL SITES DETAILS

# HO 0012-108997-KINGSPOINT



DATE: 10-26-2017  ENGINEER: EAGLE EYE  DRAWN BY: ROBERT  REVISIONS  No. DATE DESCRIPTION  1 12/03/17 1ST REVISION  1 12/0	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION	PROJECT: HOUSTON, HO 0012-108997-KINGSPO HO 0012-10899
BERT SANTOS  NS  SINCE PROVIDED BY AND SPECIFICATIONS OPER TY OF MORE FAND HEINE FAND SHALL NOT BE READ SHALL NOT BE REA	TITLE: FIBER OPTIC ROUTE  HO 0012-108997-KINGSPOINT LATERAL HOUSTON, TX	TX DIVIT LATERAL 1997

### HOUSTON, TX HARRIS COUNTY 48 HOUR NOTICE: CONTRACTOR SHALL NOTIFY HARRIS COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES. CONTRACTOR(S) TO CONTACT PUBLIC REVIEW DEPARTMENT @ (713-2743931) OR PUBLIC.REVIEW@HCPID.ORG - 1-2" HDPE Residential Area Residential Area 1-2" HDPE 1-864F CABLE 1-864F CABLE SURVEY STA.12+97 8+45 PLACE HH & MKR, 6+88 PLACE HH & MKR, LEAVE 100' 864F COIL LEAVE 100' 864F COIL (Ć-C) 762' 1-2" HDPE (C-C) 800' 1-2" HDPE 4+88 PLACE HH & MKR, LEAVE 2-75' 864F COIL SEE SHEET 4+88 EXISTING MEET ME HH & MKR, LEAVE 2-75' 72F COIL END CONDUIT, **EXISTING HDPE** ENTER EXIST. MEET ME HANDHOLE LEAVE 75' COIL FOR SPLICE **EXISTING HDPE** (C-C) 300' 1-2" 1+00\_ (C-C) 165' VZW TOWER (C-C) 30' 1-2" EXISTING HDPE HO 0012-108997-KINGSPOINT CELL SITE 13825 W BELLFORT SUGARLAND, TX 77478 !!! CAUTION !!! PIPELINE SERVICE LINES THRU THIS AREA HAVE NOT BEEN

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.

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION.

NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY

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.

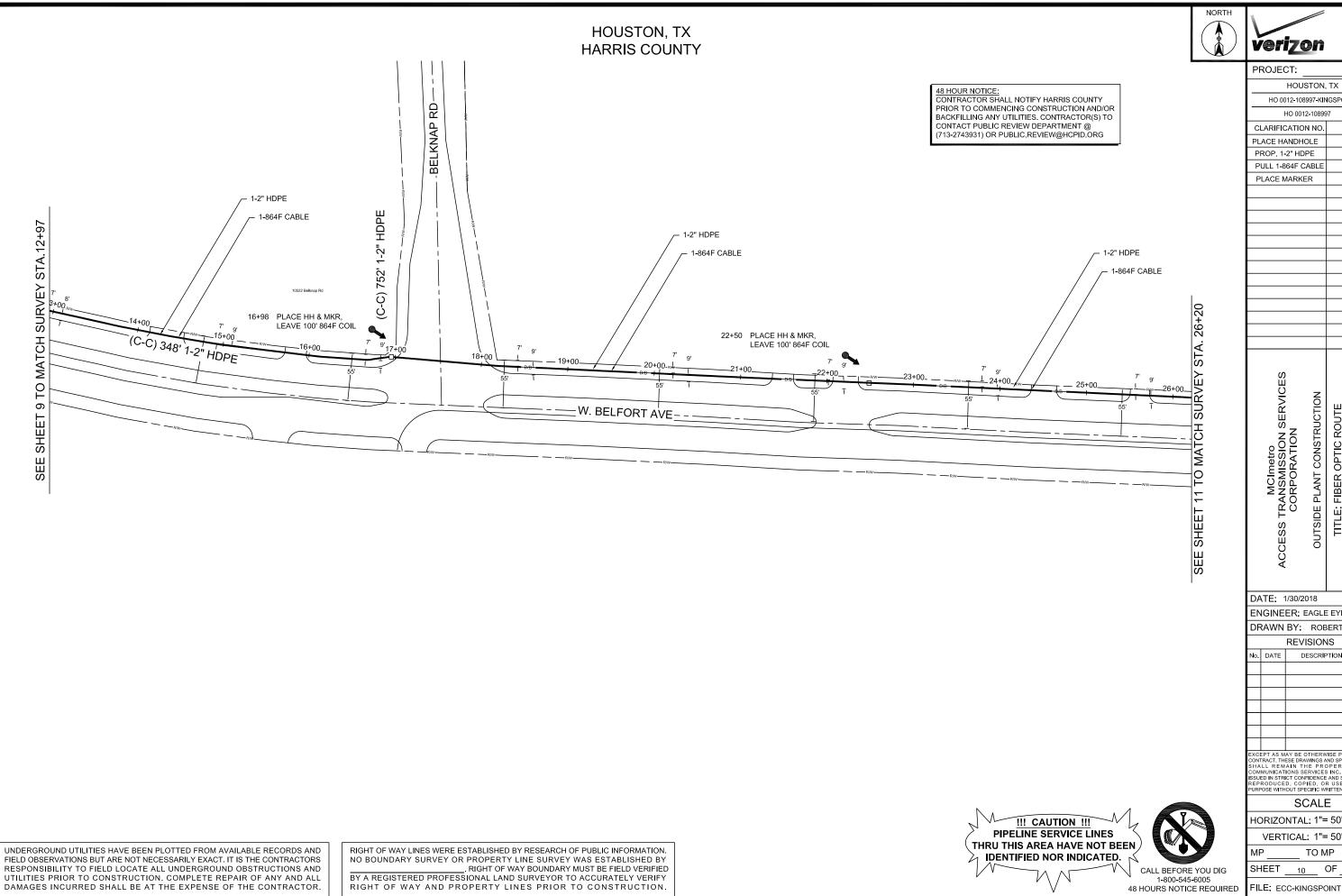
IDENTIFIED NOR INDICATED. CALL BEFORE YOU DIG 1-800-545-6005 48 HOURS NOTICE REQUIRED FILE: ECC-KINGSPOINT



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MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	HO 0012-108997-KINGSPOINT	HOUSTON, TX			
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XCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT. THESE DRAWINGS AND SPECIFICATION OF MC FOR MAY BE AND THE PROPERTY OF MC COMMUNICATIONS SERVICES INC. BOTH BEIN SUBJECT CONFIDENCE AND SHALL NOT B EPRODOUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

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MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	HO 0012-108997-KINGSPOINT	HOUSTON, TX

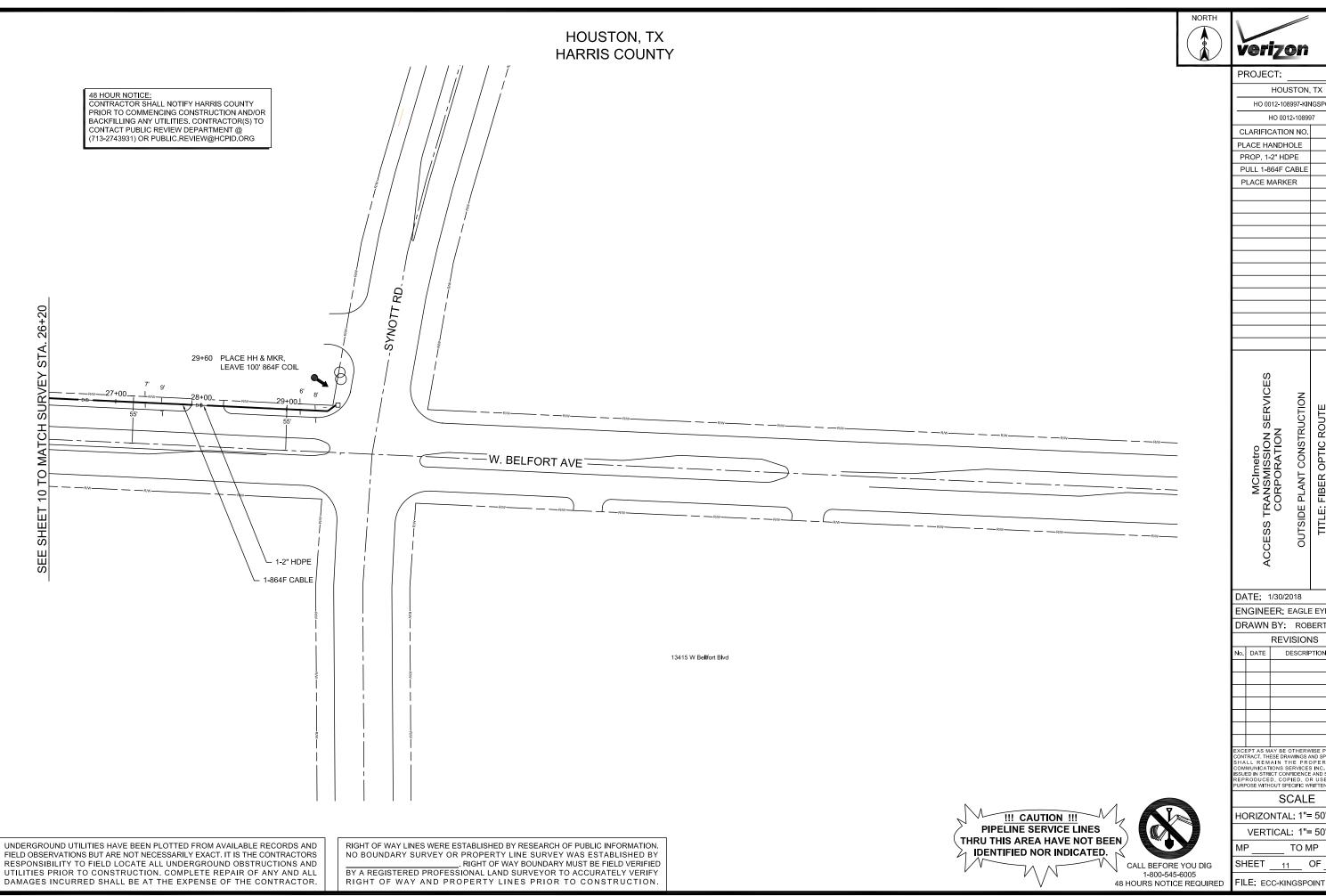
DATE: 1/30/2018 ENGINEER: EAGLE EYE

DRAWN BY: ROBERT SANTOS

REVISIONS No. DATE DESCRIPTION

EXCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT. THESE DRAWINGS AND SPECIFICATION OF MC COMMUNICATION OF MC COMMUNICATIONS SERVICES INC. BOTH BEIN SOURCE OF MC COMMUNICATIONS SERVICES INC. BOTH BEIN SOURCE AND SHALL NOT BE COMPUTED. OR USED FOR AN ULPROSE WITHOUT SPECIFIC WRITTEN PERMISSION PROPERLY WAITEN PERMISSION.

SCALE HORIZONTAL: 1"= 50' VERTICAL: 1"= 50' TO MP \_\_\_\_\_OF \_\_\_\_\_50 SHEET



verizon

PROJECT:				
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MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	HO 0012-108997-KINGSPOINT	HOUSTON, TX
DATE: 1/30/2	018			
	EAGLE	EYE	_	

ENGINEER: EAGLE EYE

DRAWN BY: ROBERT SANTOS

DESCRIPTION

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SCALE HORIZONTAL: 1"= 50' VERTICAL: 1"= 50' TO MP

\_\_\_\_11\_\_\_ OF \_\_\_50