

Permit Administrator

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

Date

X	Right of Way Permit
	Commercial Driveway Permit
Perr	nit No: 2018-18192

Permit No	2018-18192	<u> </u>	
The following "Notice of Proposed Cable, Cond attachments have been reviewed and the notic of Fort Bend County, Texas.			_
(1) COMPLETE APPLICATION FORM:			
X a. Name of road, street, and/or	drainage ditch affec	ted.	
X b. Vicinity map showing course	of directions		
X c. Plans and specifications			
(2) BOND:			
County Attorney, approval whe applicable.	n		
X Perpetual bond currently posted.	Bond No:	Amount: \$50,000.00	
Performance bond submitted.	Bond No:	Amount:	
Cashier's Check	Check No:	Amount:	
(3) DRAINAGE DISTRICT APPROVAL (WHE	:N APPLICABLE): -	Date	
We have reviewed this project and agree it in the contract of	neets minimum req	uirements. 1/26/2018	



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

Χ	Right of Way Permit
	Commercial Driveway Permit
Perr	nit No: 2018-18192

		Permit No: 20)18-18192				
Appli Job L Bond	Location Site:	cess Transmission Services Westernfield lane, Katy, TX Date of Bond:	<u> </u>	en Field Servi	\$50,000.00		
Laying Roads Comn Texas	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 nonsistant with Chapter 181, Vernon's Texas Statutes and Codes Annoted.						
1. 2.	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.						
Comn notice	On this 6th day of February, 2018, Upon Motion of Commissioner, seconded by Commissioner, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.						
Signa	ture		Prese	nted to Comm	nissioners Court and approved.		
Ву:	Churly O		Date	Recorded	Comm. Court No		
	N/A		Clerk	of Commission	ners Court		
Ву:	IN/A		By: _				

Deputy

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE

ECC FIBER BUILD: 1708AOZQ.044 MASON TO CINCO RANCH CINCO RANCH

SITE CODE: HODATX

PROJECT STATUS: CONSTRUCTION

DATE: 1/19/19

Construction notes:

48 Hour Notice: Contractor shall notify HARRIS COUNTY prior to commencing construction and/or backfilling any utilities. Contractor(s) to contact Public Review Department @ (713-274- 3931) or public.review@hcpid.org
Ensure minimum burial 4' from BOC.

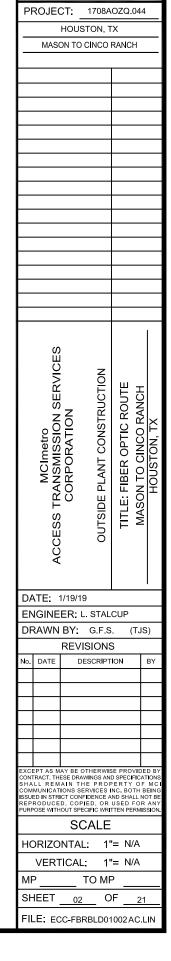
LOCATION MAP

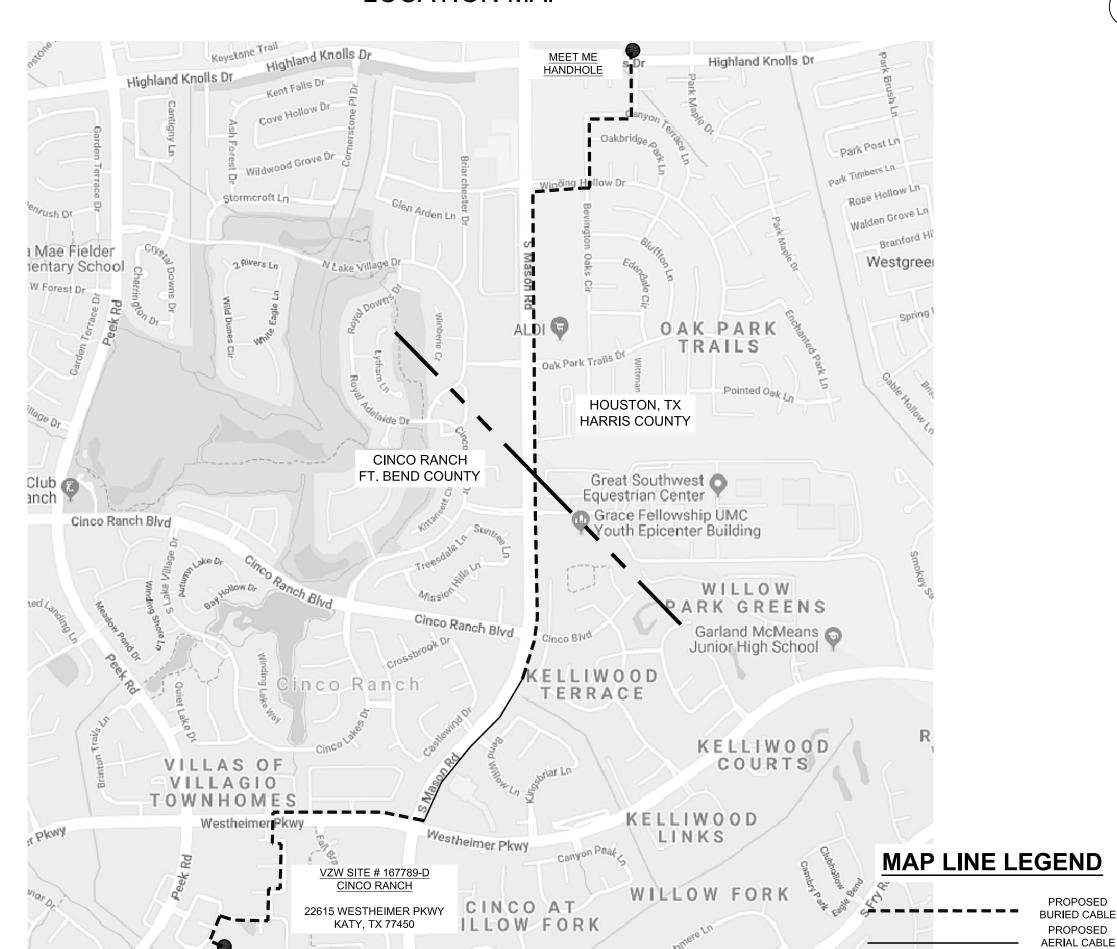


PROPOSED

PROPOSED







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

PROJECT COORDINATOR: BARRY PHILLIPS 918-688-4168

AGENT: MANAGER:

COORDINATOR: MANAGER:

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

ENGINEERING CONTRACTOR

GOLDEN FIELD SERVICES: 10830 EAST 45TH ST. STE. 405 TULSA, OK 74146

PRESIDENT:

OFFICE: FAX:

FICE: (: (918) 610-0014 (918) 610-0016

 JERRY JEFFRIES, SR.
 OFFICE: (918) 610-0014

 CELL: (918) 638-3317
 E-MAIL

 JULEFFRIES@GOLDENFIELDSERVICES.COM

 PROJECT MANAGER:
 LARRY STALCUP
 OFFICE:
 (918) 610-0014

 CELL:
 (918) 633-2198

 E-MAIL
 LSTALCUP@GOLDENFIELDSERVICES.COM

NAME OF FIRM:
PROJECT COORDINATOR:
PROJECT SUPERINTENDENT:

RAILROADS

<u>UTILITIES</u>

MCI UTILITY LOCATE 1-800-624-9675

TEXAS ONE CALL SYSTEM (UTILITY LOCATES)

NON MEMBERS:

CITY GOVERNMENT

CITY OF HOUSTON

COUNTY GOVERNMENT

FT. BEND COUNTY

STATE GOVERNMENT

N/A

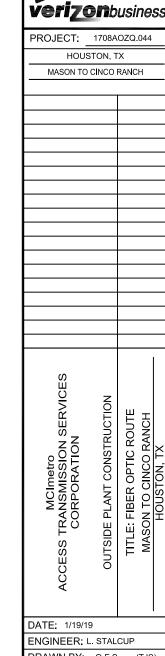
1-800-545-6005

FEDERAL GOVERNMENT

N/A

<u>OTHER</u>

N/A



D/	ATE:	1/19/19	9				
ENGINEER: L. STALCUP							
DF	RAWN	BY:	G.F.S	. (TJ	S)	
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, HIESE DRAWINGS AND SPECIFICATION. SHALL REMAIN THE PROPERTY OF MC COMMUNICATIONS SERVICES INC. BOTH BEINN ISSUED IN STRICT CONFIDENCE AND SHALL NOT BI REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.

SCALE						
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VERT	ICAL:	1"=	N/A			
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GENERAL NOTES / CLARIFICATION NOTES

GENERAL NOTES

- 1. VERIZON BUSINESS COMPRISES THE FOLLOWING OPERATING ENTITIES:
 - MCI COMMUNICATIONS SERVICES, INC.
 - MCI METRO COMMUNICATIONS SERVICES, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES OF VIRGINIA, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES OF MASSACHUSETTS, INC.
 - METROPOLITAN FIBER SYSTEMS OF NEW YORK, INC.
- ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, VERIZON BUSINESS AND THE RIGHT-OF-WAY GRANTOR.
- LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALUATION MAPS OR OTHER DRAWINGS AND MAY NOT BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
- 4. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS BUT ARE NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT.
- 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.
- 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

ADDENDUM NOTES

CLARIFICATION NOTES (CONTINUED)

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	MCImetro ACCESS TRANSMISSION SERVICES	CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE
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	RAWN		G.F.S	
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MCI OUTSIDE PLANT FOCUS

FIBER OPTIC CABLE UNCOVERING SYSTEM

- 1. THE TITLE OF THIS PROGRAM, <u>F.O.C.U.S.</u>, AN ACRONYM FOR <u>"FIBER OPTIC CABLE UNCOVERING SYSTEM</u>," WAS SELECCTED 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.
- 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 ELECCTRONIC LOCATE IS QUESTIONED, OR
 THE MARKED RUNNING LINE DOES NOT MATCH THE AS-BUILTS.
- 6. EXPOSING REQUIREMENTS:
 - 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 CLEARLY VISIBLE.
 - IN ADDITION, MECHANICAL EXCAVATION WITHIN 3 FT. OF OSP FACILITIES REQUIRES ON-SITE PRIOR APPROVAL FROM MCI'S EMPLOYEE OR CONTRACT REPRESENTATIVE.
- PLEASE REFER TO THE LATEST EDITION OF THE MCI OSP HANDBOOK FOR ADDITIONAL DETAILS. KNOW IT AND FOLLOW IT.

MCI OUTSIDE PLANT CONSTRUCTION GENERAL REQUIREMENTS

- ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS MUST BE FOLLOWED WITHOUT EXCEPTION.
- * PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE SPECIFIC WORK SITE SHALL BE USED AT ALL TIMES. AT A MINIMUM, HARD HAT, SAFETY SHOES/STEEL-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.

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	MCImetro ACCESS TRANSMISSION SERVICES		OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MASON TO CINCO RANCH	HOUSTON, TX
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CLARIFICATION SUMMARY SHEET PROJECT SPECIFIC

PROJECT CLARIFICATION SUMMARY					
DESCRIPTION	QUANTITY	UNIT			
PLACE (30"x60"x30") HANDHOLE	21	EA			
PLACE 1-2" HDPE (SDR 11) CONDUIT	12,043'	LF			
PLACE 2-2" HDPE (SDR 11) CONDUIT	117'	LF			
PULL 1-864F CABLE (12160' IN NEW CONDUIT; 490' IN EXISTING CONDUIT; 2225' IN COILS; & 50' IN RISERS)	14,925'	LF			
PLACE 1-6M AERIAL STRAND (INCLUDES ALL HARDWAR, LOOP EQUIPMENT & 275' IN GUYS)	2,212'	LF			
LASH 1-864F CABLE (200' IN SLACK LOOPS)	2,137'	LF			
ATTACH (25') 2" U-GUARD RISER	2	EA			
(PLACE) DOWN GUY & ANCHOR	11	EA			
PLACE (BURIED CABLE) MARKER	21	EA			



MCImetro
ACCESS TRANSMISSION SERVICES
CORPORATION
CORPORATION
CORPORATION
CORPORATION
TITLE: FIBER OPTIC ROUTE
MASON TO CINCO RANCH
TO INSTANCT OF THE CORPORATION
No. Date DESCRIPTION BANCH
NO. DATE DESCRIPTION

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SCALE

HORIZONTAL: 1"= N/A

VERTICAL: 1"= N/A

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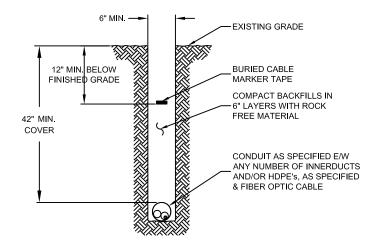
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SYMBOLS KEY **EXISTING** PROPOSED **Verizon**business **EXISTING** PROPOSED PROJECT: 1708AOZQ.044 STEEL MARKER AND SIGN-(A) DIRECT BURIED CABLE ALUMINUM "HUB"-STYLE MARKER-(B) HOUSTON, TX FLAT MARKER-(C) AERIAL CABLE MASON TO CINCO RANCH TUBULAR MARKER-(D) (B) (C) (D) (C) TUBULAR MARKER, & ISOLATOR PROTECTOR-(E) — suвм — SUBMARINE CABLE SUBM — (21) -FOGW--FOGW-FOGWIRE CABLE MILE POST MARKER DASHED = NOT FOUND IN FIELD DIRECT BURIED HDPE PVC OR SPLIT PVC CONDUIT PERMIT TRACKING FORM IDENTIFIER 187 \ 187 / BSP/GSP OR SPLIT BSP/GSP CONDUIT 42" ROCK PROBE (DEPTH AS INDICATED) STEEL CASING (48") (48") UTILITY COVER DEPTH mminnin REMOVE AND RESTORE ASPHALT OR CONCRETE (WIDTH AS INDICATED) HANDHOLE, MANHOLE OR PULLBOX POLE CORE BORE ANCHOR ONLY JACK AND BORE MCImetro TRANSMISSION SERVICES CORPORATION **GUY ONLY** DIRECTIONAL BORE (& PLACE CONDUIT) CONSTRUCTION OHG 92' 10M OHG 92' 10M OVERHEAD GUY (ARROW IN DIRECTION OF PULL) ---**FUTURE CABLE** ANCHOR AND GUY REMOVE CABLE SIDEWALK ANCHOR AND GUY TO BE REMOVED OR ABANDONED (SHOWN FOR HDPE) OUTSIDE PLANT FOREIGN ANCHOR AND GUY AERIAL UTILITY (ELECCTRIC) 30'-5-84 PUSH BRACE (EXISTING POLE) TITLE: MASO UNDERGROUND UTILITY (TELECPHONE) ACCOUNT CODE CHANGE (BURIED TO AERIAL) $-\bigcirc$ MAIN TRACKS **AUXILLARY TRACKS** \mathbb{R} \mathbb{R} RISER ATTACHMENT LOCATION DATE: 1/19/19 CENTERLINE BOND AND GROUND ENGINEER: L. STALCUP ıI<u>B&G</u> RIGHT-OF-WAY DRAWN BY GFS (TJS) 12" **REVISIONS** CULVERT (SIZE AS INDICATED) EDGE OF ROADWAY (GENERIC) lo. DATE DESCRIPTION -EOP-- EOP -EDGE OF PAVEMENT BRIDGE BOC — BOC — BACK OF CURB WATER METER \otimes 8 DITCH LINE GAS VALVE TAX, CITY, COUNTY, OR STATE BOUNDARY LINE XCEPT AS MAY BE OTHERWISE PROVIDED E CONTRACT. THESE DRAWINGS AND SPECIFICATION HALL REMAIN THE PROPERTY OF MIN COMMUNICATIONS SERVICES INC. BOTH BEIN SUBJECT CONFIDENCE AND SHALL NOT EPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSIO FIRE HYDRANT PROPERTY LINE SCALE FENCE LINE -O--- F/L F/L ----- O----**-0-** F/L F/L **---0-**RAILROAD SIGNAL CONTROL BOX HORIZONTAL: 1"= N/A **GUARDRAIL** VERTICAL: 1"= N/A TO MP TOP OF SLOPE CAUTION NOTE SHEET __05 OF TOE OF SLOPE FILE: ECC-FBRBLD01005AC.LIN

CONSTRUCTION DETAILS

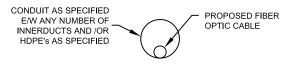
TYPICAL DETAIL"A"

TRENCH & PLACE CONDUIT



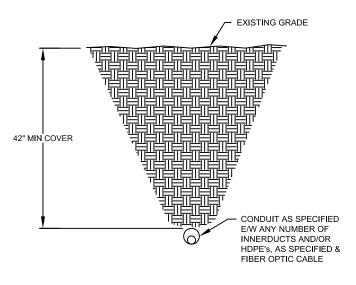
TYPICAL DETAIL "B"

CROSS SECTION OF PROPOSED HDPE



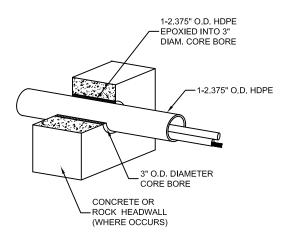
TYPICAL DETAIL "C"

DIRECTIONAL BORE CROSS SECTION FOR CONDUIT



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.

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MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MASON TO CINCO RANCH	HOUSTON, TX
DATE: 1/19/19				
ENGINEER: L				
DRAWN BY:	G.F.S		TJS)
REVISIONS				

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DATE:	1/19/19		
ENGINE	ER: L STAL	CUP	
ORAWN	BY: G.F.S	. (T.	IS)
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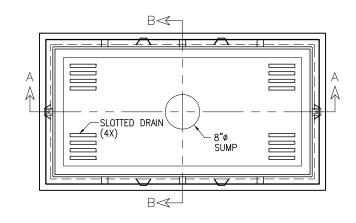
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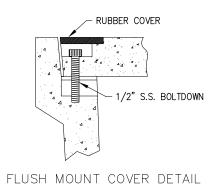
30" x 60" x 30" 30K STANDARD HANDHOLE DETAILS

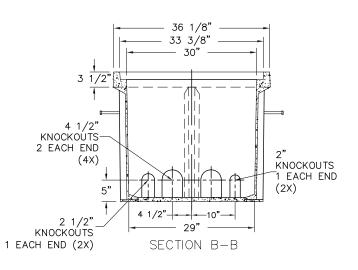
DETAIL "A" LOCKING DEVICE CROSS SECTION



FLUSH MOUNT COVER DETAIL

DETAIL "B"



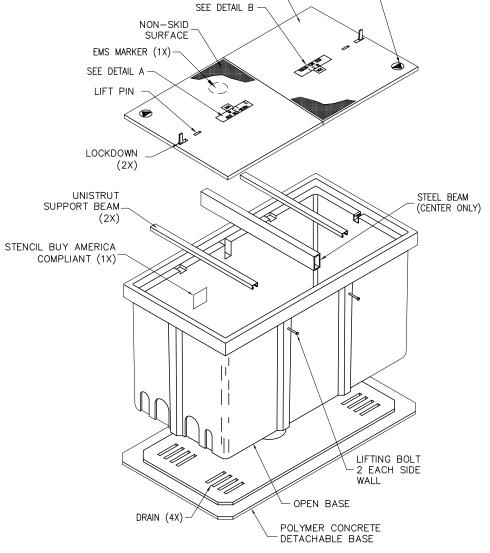


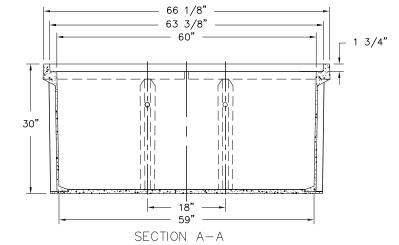
DETAIL "C" EXPLODED ISOMETRIC DETAIL

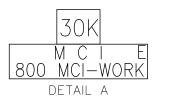
COVER

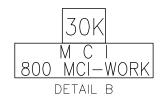
ARMORCAST LOGO

FLUSH MOUNT POLYMER CONCRETE









SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN

ITEM QTY

(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

verizon business

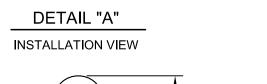
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PF	ROJE	CT:	1708A	OZQ.	044
		HOUS	TON, T	X	
_	MAS	OT NC	CINCO	RANC	Н
	MCImetro ACCESS TRANSMISSION SERVICES	CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MASSON TO CINCO
DΑ	TE:	1/19/19)		
ΕN	IGINE	ER: L	STAL	CUP	
DF	RAWN				(TJ
			SIONS		
No.	DATE	DI	ESCRIPT	ON	- 1

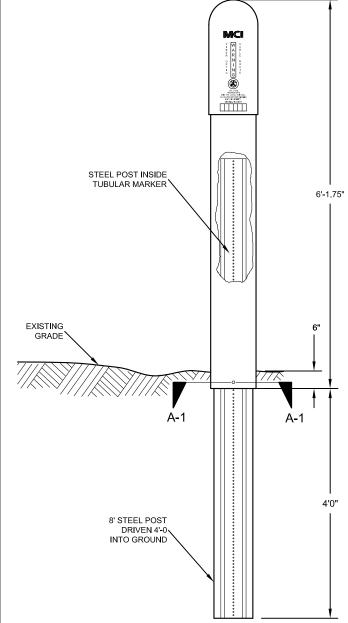
DA	YTE:	1/19/19	9		
ENGINEER: L. STALCUP					
DF	RAWN	BY:	G.F.S.	(Tu	IS)
		REVI	SIONS		
No.	DATE	DE	SCRIPTIO	1	BY

EXCEPT AS MAY BE OTHERWISE PROVIDED B CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL REMAIN THE PROPERTY OF MACCOMMUNICATIONS SERVICES INC. BOTH BEIN ISSUED IN STRICT COMPEDIENCE AND SHALL NOT BE REPRODUCED. COPIED, OR USED FOR AN PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

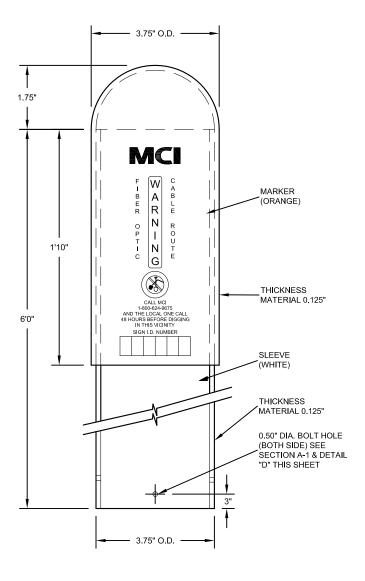
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FILE: EC	C-FBRBL	.D0100	7AC.LIN

TUBULAR MARKER DETAILS



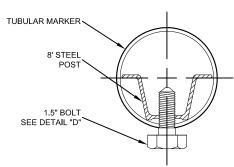


DETAIL "B" FRONT VIEW



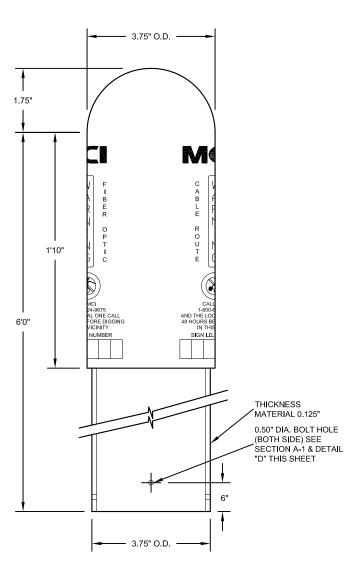
SECTION A-1

TUBULAR MARKER



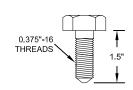
DETAIL "C"

SIDE VIEW



DETAIL "D"

1.5" BOLT





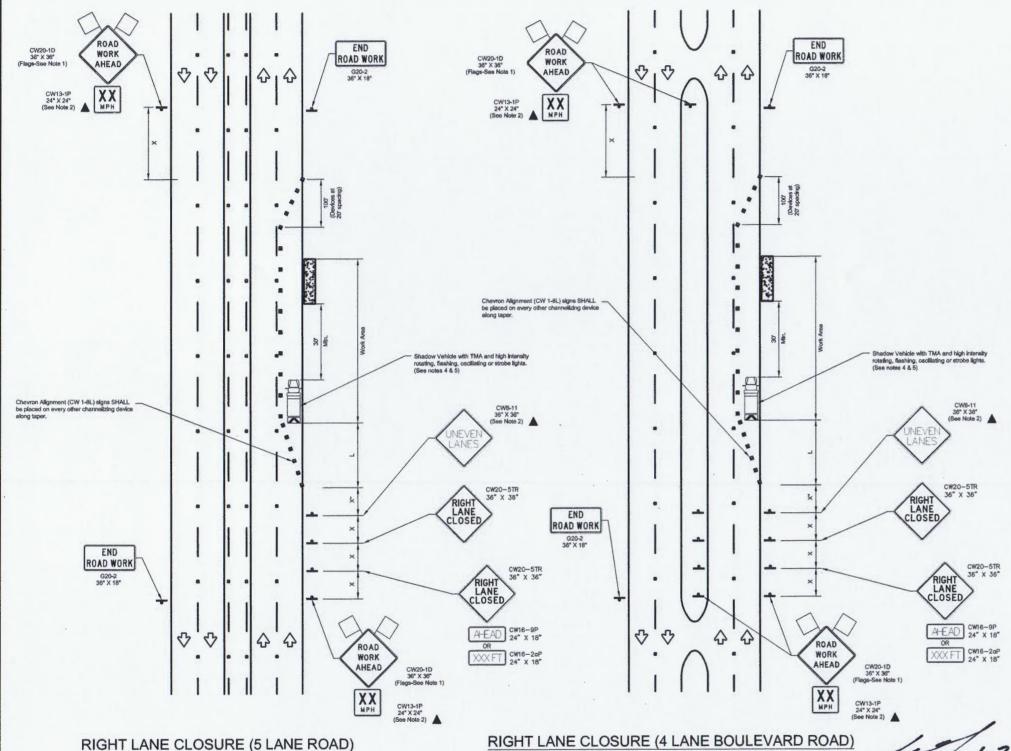
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	MCImetro ACCESS TRANSMISSION SERVICES	CORPORATION		OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MASON TO CINCO BANCH	XL NOTSTOH
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MC COMMUNICATIONS SERVICES INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

	SCA	LE	
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SHEET	- 8	OF	21
FILE: E	CC-FBRBL	.D0100	8AC.LIN

TRAFFIC CONTROL PLAN DETAILS



KEVISIUNS	UAIL	INAME		
UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH	ET DEVID	\bigcirc
	3		FI. DENU	
	1770	1	ENCINEERING	DED
			CNGINEERING	



TEO, LLC 5510 Community DRIVE Houston, Texas 77005 281-536-5123 OFFICE 713-668-6334 FAX



TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED BY ENGINEER

70' 70' 60'	160° 160° 160°	120 ¹ 120 ¹
70'	160"	120
60'	120'	90'
	-	

	LE	GEND	
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
-	Sign	4	Traffic Flow
0	Flag	10	Flagger

Posted Speed	Formula	Minimum Desirable Taper Lengths "L"		Desirable Spacing of		Minimum Sign Spacing	Suggested Longitudinal Buffer Space	
	10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"	
30	ws ²	150'	165	180'	30'	60,	120'	90'
35	L= WS 60	205	225	245'	35	70'	160	120'
40	80	265	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90,	320'	195'
50		500	550"	900'	501	100'	400	240'
55	L=WS	550'	605	660	55'	110'	500'	295'
60	L-WS	600'	880'	720'	60,	120'	600'	350'
65		650'	715'	780'	65'	130	700'	410'
70		700	770	840'	70°	140	600'	475
75		750'	825'	900'	75'	150'	900,	540°

* Conventional Roads Only

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

GENERAL NOTES

GENERAL NOTES

1. Flags attached to signs where shown are OPTIONAL.

2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.

3. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the pawed shoulder.

4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in selvance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but mad or work conditions require the traffic control to memain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.

5. Additional Shadow Vehicles with TMAs may be positioned of the preved surface, next to those shown in order to protect vider work spaces.

6. Contractor shall provide and install traffic control devices in conformance with part VI of Texas Manual on Uniform Traffic Control bedvices TMUTCD - Latest edition with revisions) during construction.

7. No lanes shall be blocked from 7 am to 9am and 4pm to 8:30pm Monday thu Friday.

8. Off duty police officers/laggers are required to direct traffic when applicable.

9. If project is within 400 feet from a signalized intersection, the Contractor shall contact FT. BEND COUNTY Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.

1708A0ZQ.044 MASON TO CINCO RANCH

DRAWN BY: GFS	ERVIN CABLE CONSTRUCTION	HCED STANDARD
GFS	SHEET DESCRIPTION: TRAFFIC CONTROL PLAN (RIGHT LANE CLOSURE)	41
SCALE: N.T.S.		SHEET NO:
DATE:	APPROVED BY:	8B / 21



PROJECT:	1708AOZQ.044
HOU	STON, TX
MASON TO	CINCO RANCH

			1	
MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MASON TO CINCO RANCH	AT INCIDENT

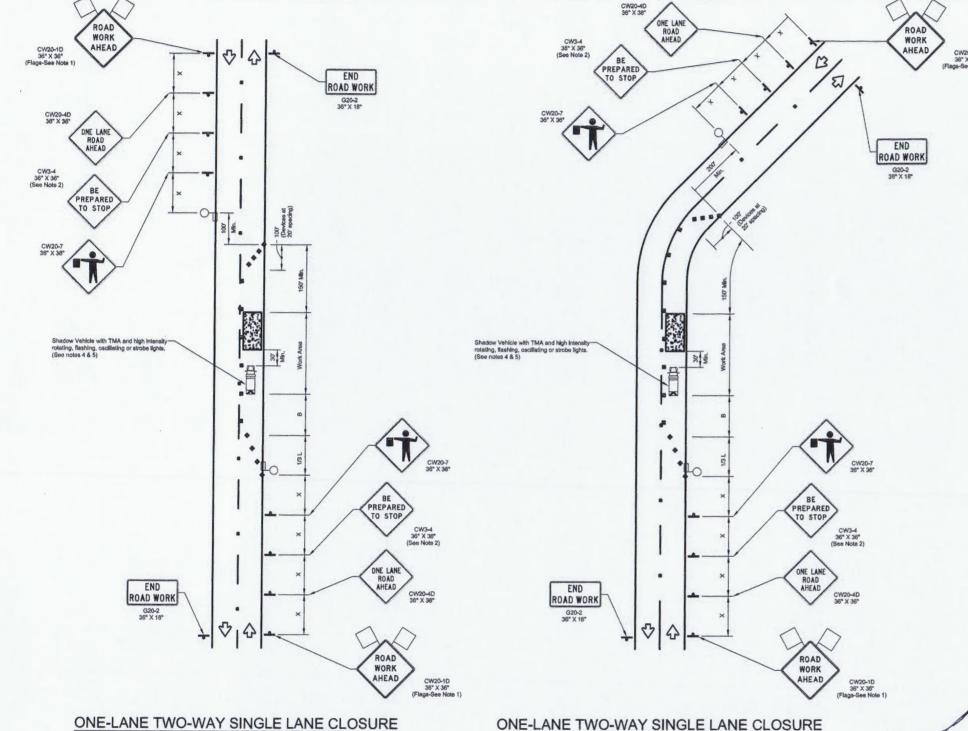
E١	IGINE	ER: L	. STALCI	JP	
DF	RAWN	BY:	G.F.S.	(T.	JS)
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EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATION. SHALL REMAIN THE PROPERTY OF MC COMMUNICATIONS SERVICES INC. BOTH BEINI ISSUED IN STRICT CONFIDENCE AND SHALL NOT BI REPRODUCED, COPIED, OR USED FOR AN PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

SHEET	8B	OF	21
MP	TO	MP	
VERT	VERTICAL:		
HORIZO	NTAL:	1"=	N/A
	SCA	LE	
PURPOSE WITHO	OUT SPECIFIC	CWRITTEN	PERMISSIO

FILE: ECC-FBRBLD01008AC.LIN

TRAFFIC CONTROL PLAN DETAILS



BY ENGINEER

TRAFFIC CONTROL PLAN SECTION SHALL BE COMPLETED

ROADWAY	POSTED	TAPER LENGTH	SPACING CHANNELIZING DEVICES		SIGN	BUFFER	
			TAPER	TANGENT		80,	
WESTENFIELD LN	30	180°	30"	60'	120'	80,	
JASPERSON LN	30	180'	30'	60'	120'	90'	
CROWNFIELD LN	30	180'	30'	80'	120'	80,	
VICTORY TERRANCE LN	30	180'	30'	60'	120'	80,	
PARKVINE LN	30	180'	30'	80°	120'	80.	
ELSBERRY PARK LN	30	180'	30'	60'	120'	90'	
MILL CROSSING LN	30	180	30'	60'	120'	90'	
CANYON TERRANCE LN	30	160'	30,	60"	120'	90'	

	LE	GEND	
0110	Type 3 Barricade		Channelizing Devices
中	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
-	Sign	3	Traffic Flow
a	Flag	0	Flagger

Posted Speed	Formula		Minimum Seatrable Lengths	ı.			Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	-8"
30	2	150'	165'	180'	30'	90,	120	90'
35	LE WS	205	225'	245'	35°	70°	160'	120'
40	60	265'	295	320	40'	60,	240"	155'
45		450'	495'	540"	45'	90,	320'	195
50		500'	550"	6001	50'	100'	400'	240'
55	L=WS	550'	605	660'	55'	110'	500'	295'
60	L-142	600'	660'	720	60°	120	600'	350'
65		650'	715	780	65'	130'	700'	410'
70		700'	770	840'	70"	140'	800'	475
75		750'	825'	900'	75	150'	900'	540'

- ** Taper lengths have been rounded off. L=Length of Taper(FT) W=Wildth of Offset(FT) S=Posted Speed(MPH)

GENERAL NOTES

- GENERAL NOTES

 1. Flags strached to signs where shown are OPTIONAL.

 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol are OPTIONAL.

 3. Inactive work vehicles or other equipment should be perked near the right-of-way line and not parked on the paved shoulder.

 4. A Shadow Vahicle with a TMA should be used anytime it can be positioned 30 to 100 fised in advance of the area of crew exposures without advancely 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.

 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect vider work spaces.

 8. 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.

 7. No Isens shall be blocked from 7em to 9em and 4pm to 6:30pm Monday thu Friday.

 8. Off city police officers/flaggers are required to direct traffic when applicable.

 9. If project is within 400 feet from a signalized intersection, the Contractor shall contact FT. BEND COUNTY Engineering Department, Traffic Signal Maintenance at (713) 881-3210 five (5) days prior to the start of construction.

NE-LANE TWO-WAY SINGLE LANE CLOSURE	
CONTROL WITH FLAGGERS	

(ON STRAIGHT SECTION OF ROADWAY)

CONTROL WITH FLAGGERS (ON CURVED SECTION OF ROADWAY)

110.	REVISIONS	DATE	NAME
1	UPDATED DEPARTMENT NAME & GENERAL NOTES	4/16/15	BSH
1			
\wedge		u salasi	
1			
1			

FT. BEND COUNTY ENGINEERING DEPARTMENT



TEO, LLC 713-668-6334 FAX



PROJECT TITI	1708AOZQ.044 MASON TO CINCO F	RANCH
DRAWN BY: GFS	ERVIN CABLE CONSTRUCTION	HCED STANDARD
CK'D BY: GFS	TRAFFIC CONTROL PLAN (RIGHT LANE CLOSURE)	39
SCALE: N.T.S.	And the second s	SHEET NO:
DATE: 1/19/19	APPROVED BY:	8A / 21



PROJECT: 1708AOZQ.044 HOUSTON, TX MASON TO CINCO RANCH OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE
MASON TO CINCO RANCH
HOUSTON, TX ACCESS

DATE: 1/19/19 ENGINEER: L. STALCUP DRAWN BY: G.F.S. (TJS) REVISIONS

DESCRIPTION No. DATE

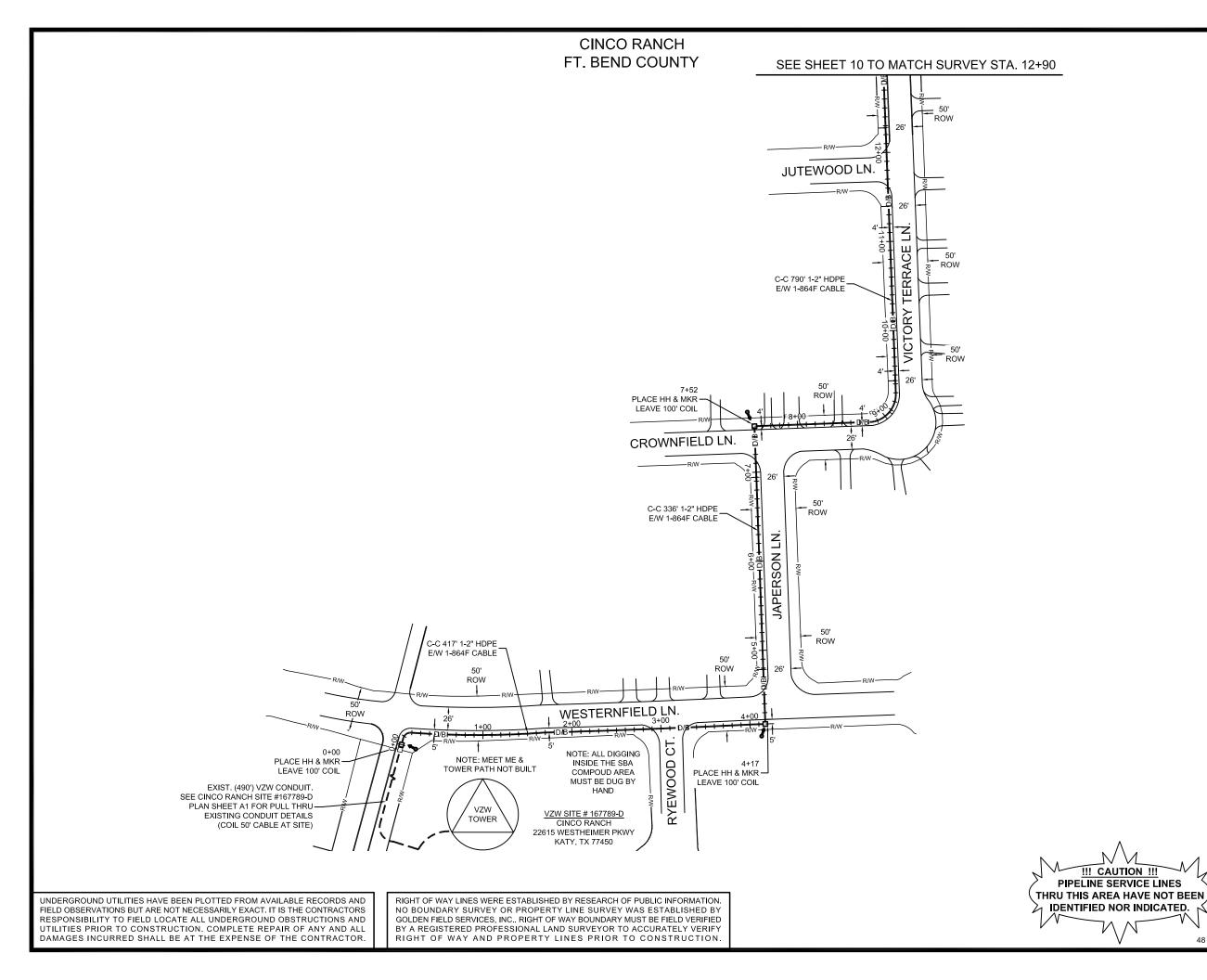
EXCEPT AS MAY BE OTHERWISE PROVIDED OF CONTRACT, THESE DRAWINGS AND SPECIFICATION SHALL REMAIN THE PROPERTY OF MC COMMUNICATIONS SERVICES INC. BOTH BEIN ISSUED IN STRICT CONFIDENCE AND SHALL NOT REPRODUCED, COPIED, OR USED FOR AN PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE

HORIZONTAL: 1"= N/A

VERTICAL: 1"= N/A TO MP

SHEET 8A OF 21 FILE: ECC-FBRBLD01008 AC.LIN







PROJECT: 1708AOZQ 044 HOUSTON, TX MASON TO CINCO RANCH CLARIFICATION NO. QUANTITY PLACE HANDHOLE PROP. 1-2" HDPE 1290' PULL 1-864F CABLE 2130' PLACE MARKER MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION OPTIC ROUTE DATE: 1/19/19 ENGINEER: L. STALCUP DRAWN BY: G.F.S. (TJD) **REVISIONS** o. DATE DESCRIPTION

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 STRUCT CONFIDENCE AND SHALL NOT BE REPRODUCED. OPIED, OR USED FOR AND PURPOSE WITHOUT SPECIFIC WRITTEN FERMISSION.

SCALE					
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SHEET	09	OF	21		
FILE: ECC EPPPI D01000 AC LIN					

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

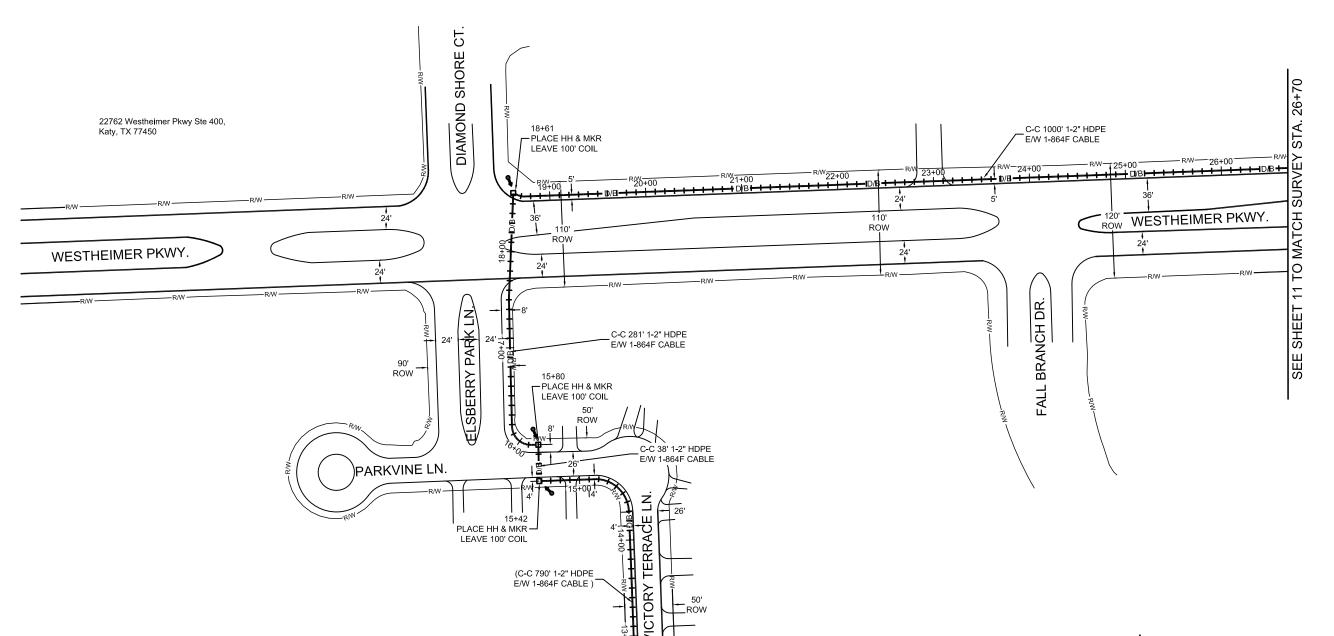
CINCO RANCH FT. BEND COUNTY





CLARIFICATION NO. QUANTITY PLACE HANDHOLE PROP. 1-2" HDPE PULL 1-864F CABLE PLACE MARKER MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION DATE: 1/19/19 ENGINEER: L. STALCUP DRAWN BY: G.F.S. (TJD) **REVISIONS** DESCRIPTION XCEPT AS MAY BE OTHERWISE PROVIDED E CONTRACT. THESE DRAWINGS AND SPECIFICATION HALL REMAIN THE PROPERTY OF MINOMINICATIONS SERVICES INC. BOTH BEIN SOURCE TO SERVICES INC. BOTH BEIN EPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSION SCALE HORIZONTAL: 1"= 100" VERTICAL: 1"= N/A TO MP SHEET OF 10

FILE: ECC-FBRBLD01010AC.LIN



SEE SHEET 09 TO MATCH SURVEY STA. 12+90

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 GOLDEN FIELD SERVICES, INC.. 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.

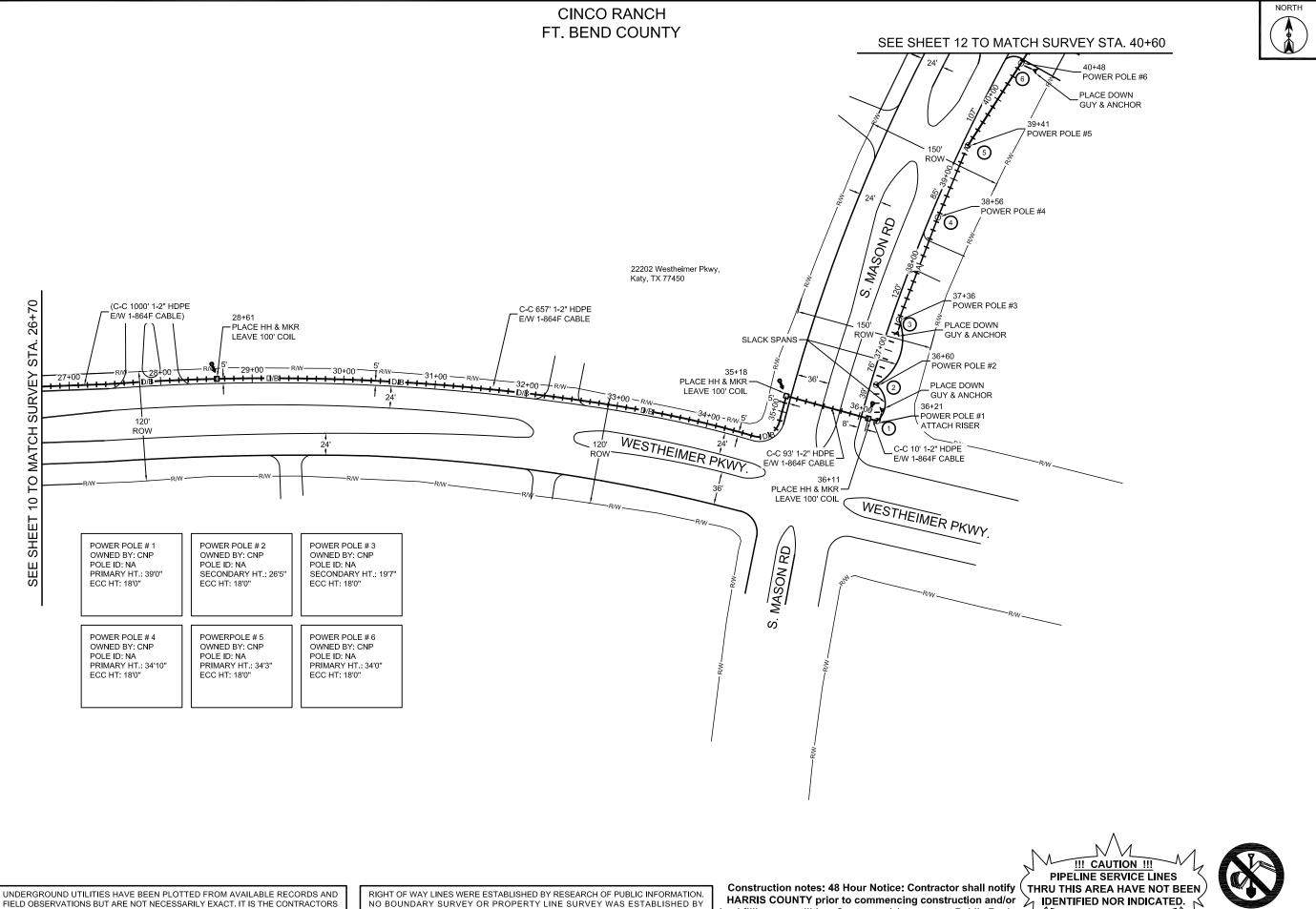
Construction notes: 48 Hour Notice: Contractor shall notify
HARRIS COUNTY prior to commencing construction and/or
backfilling any utilities. Contractor(s) to contact Public Review
Department @ (713-274- 3931) or public.review@hcpid.org .

Ensure minimum burial 4' from BOC

PIPELINE SERVICE LINES
RU THIS AREA HAVE NOT BEEN
DENTIFIED NOR INDICATED.

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

!!! CAUTION !!!



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.

GOLDEN FIELD SERVICES, INC., 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

backfilling any utilities. Contractor(s) to contact Public Review Department @ (713-274- 3931) or public.review@hcpid.org . Ensure minimum burial 4' from BOC



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

Verizonbusiness

PROJECT: 1708AOZQ.044

				=
HOUS	TON, T	X		
MASON TO	CINCO	RANC	Н	
CLARIFICATION	I NO.	QUA	ITN	1
PLACE HANDH	OLE		3	
PROP. 1-2" HD	PE		951'	
PULL 1-864F CA			251'	
				_
PLACE 6M STR.			439'	_
LASH 1-864F CA			439'	
DOWN GUY & AN	CHOR		3	
RISER: 2" U GA	URD		1	
PLACE MARK	ER		3	
				_
				_
MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MASON TO CINCO RANCH	
DATE: 1/19/19)			
ENGINEER: L		CUP		
DRAWN BY:	G.F.S	. (TJD	
REVI	SIONS	3		
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VERTICAL: 1"= N/A TO MP

SHEET OF 11

FILE: ECC-FBRBLD01011AC.LIN

CINCO RANCH FT. BEND COUNTY SEE SHEET 13 TO MATCH SURVEY STA. 52+00 (12) 51+54 POWER POLE #12 POWER POLE REF.#7 POWER POLE #8 POWER POLE #9 OWNED BY: CNP POLE ID: 407817 OWNED BY: NA OWNED BY: CNP CLOUDBRIDGE DR. POLF # 407816 POLE ID 407815 SECONDARY HT.: 22'1' SECONDARY HT.: 26'9' SECONDARY HT.: 25'0" ECC HT 18'0" ECC HT 18'0" FOC HT: 24'0" POWER POLE # 10 POWER POLE # 11 POWER POLE # 12 OWNED BY: CNP OWNED BY: CNP OWNED BY: CNP PLACE DOWN POLE ID: J905 POLE ID 43TW-50T POLE ID: 44TW-50T GUY & ANCHOR SECONDARY HT.: 22'11 SECONDARY HT.: 20'0' SECONDARY HT.: 20'10 ECC HT: 18'0" ECC HT: 18'0" ECC HT: 18'0" POWER POLE #11 S. MASON ROW PLACE DOWN GUY & ANCHOR POWER POLE #10 9 46+27 POWER POLE #9 PLACE 100' SLACK COIL 44+35 POWER POLE #8 PLACE DOWN GUY & ANCHOR POWER POLE #7 22150 Westheimer Pkwy, Katy, TX 77450

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 GOLDEN FIELD SERVICES, INC., 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

SEE SHEET 11 TO MATCH SURVEY STA. 40+60

Construction notes: 48 Hour Notice: Contractor shall notify (THRU THIS AREA HAVE NOT BEEN HARRIS COUNTY prior to commencing construction and/or > IDENTIFIED NOR INDICATED. backfilling any utilities. Contractor(s) to contact Public Review Department @ (713-274- 3931) or public.review@hcpid.org . Ensure minimum burial 4' from BOC





PROJE	CT:	1708A	OZQ.	044	
	HOUS	STON, T	X		
MAS	SON TO	CINCO	RANC	Н	
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LASH 1-			1	240	
DOWN G	UY & AN	ICHOR		5	
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MCImetro	ACCESS I KANSMISSION SEKVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MASON TO CINCO RANCH	AT NOTSHOR
DATE:	1/19/19	9			
ENGIN	EER: L	STAL	CUP		
DRAWI	N BY:	G.F.S	. (TJD)
	REVI	SIONS	3		
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HORIZO	1"=	100'	
VERT	ICAL:	1"=	N/A
MP	то	MP	
SHEET	12	OF	21

CINCO RANCH FT. BEND COUNTY

SEE SHEET 14 TO MATCH SURVEY STA. 61+50





PROJECT: 1708AOZQ.044

HOUSTON, TX

MASON TO CINCO RANCH

CLARIFICATION NO. QUANTITY PLACE HANDHOLE PROP. 1-2" HDPE 592' PULL 1-864F CABLE 692' PLACE 6M STRAND LASH 1-864F CABLE 458' OWN GUY & ANCHOR RISER: 2" U GARD PLACE MARKER

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION OPTIC ROUTE

DATE: 1/19/19 ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (TJD) **REVISIONS**

o. DATE DESCRIPTION

XCEPT AS MAY BE OTHERWISE PROVIDED E CONTRACT. THESE DRAWINGS AND SPECIFICATION HALL REMAIN THE PROPERTY OF MINOMINICATIONS SERVICES INC. BOTH BEIN SOURCE TO SERVICES INC. BOTH BEIN EPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE HORIZONTAL: 1"= 100" VERTICAL: 1"= N/A TO MP

13

OF

SHEET CALL BEFORE YOU DIG 1-800-545-6005 FILE: ECC-FBRBLD01013AC.LIN

POWET POLE # 15 OWNED BY: CNP S. MASON RD POLE ID: NA PRIMARY HT.: 33'0" ECC HT: 18'0" C-C 1000' 1-2" HDPE E/W 1-864F CABLE 3020 S Mason Rd, Katy, TX 77450 C-C 23' 1-2" HDPE E/W 1-864F CABLE PLACE DOWN **GUY & ANCHOR** 55+81 PLACE HH & MKR 55+58 LEAVE 100' COIL POWER POLE #15 ATTACH RISER -PLACE 100' SLACK COIL 14) 54+25 POWER POLE #14 PLACE DOWN GUY & ANCHOR 52+70 POWER POLE #13

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.

POWER POLE # 13

POLE ID: 91AVJ-30T

SECONDARY HT : 28'3 SMALL CELL HT: 24'9"

OWNED BY: CNP

POWER POLE # 14

POLE # J532-1800-30K

SECONDARY HT.: 22'4"

OWNED BY: CNP

ECC HT: 18'0"

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC., 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

SEE SHEET 11 TO MATCH SURVEY STA. 52+00

Construction notes: 48 Hour Notice: Contractor shall notify (THRU THIS AREA HAVE NOT BEEN HARRIS COUNTY prior to commencing construction and/or > IDENTIFIED NOR INDICATED. backfilling any utilities. Contractor(s) to contact Public Review Department @ (713-274- 3931) or public.review@hcpid.org . Ensure minimum burial 4' from BOC

!!! CAUTION !!! PIPELINE SERVICE LINES 48 HOURS NOTICE REQUIRED

CINCO RANCH FT. BEND COUNTY SEE SHEET 15 TO MATCH SURVEY STA. 70+10 120' ROW MASON RD C-C 971' 1-2" HDPE E/W 1-864F CABLE Ś -PLACE HH & MKR (C-C 1000' 1-2" HDPE 2950 S Mason Rd, Katy, TX 77450 CINCO RANCH <u>BLVD</u> CINCO RANCH BLVD SEE SHEET 12 TO MATCH SURVEY STA. 61+50

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1-800-545-6005

VERTICAL: 1"= N/A TO MP SHEET ___14 OF

FILE: ECC-FBRBLD01014AC.LIN 48 HOURS NOTICE REQUIRED

CALL BEFORE YOU DIG

PROJECT: 1708AOZQ 044 HOUSTON, TX MASON TO CINCO RANCH

Verizonbusiness

MCImetro MCIMETO MCIMETO MCIMETO PLACE HANDHOLE PROP. 1-2" HDPE PULL 1-864F CABLE PLACE MARKER OUTSIDE PLANT CONSTRUCTION MASON TO CINCO RANCH MASON TO CINCO RANCH TITLE: 1/19/19					
ACCESS TRANSMISSION SERVICES CORPORATION CORPORATION OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC ROUTE MASON TO CINCO RANCH	CLARIFICATION	NO.	QUA	ITNA	ΙΤΥ
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DATE: 1/19/19	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION	OUTSIDE PLANT CONSTRUCTION	TITLE: FIBER OPTIC ROUTE	MASON TO CINCO RANCH	HOUSTON. TX
	DATE: 1/19/19				

ENGINEER: L. STALCUP

DRAWN BY: G.F.S. (TJD)

REVISIONS DESCRIPTION

XCEPT AS MAY BE OTHERWISE PROVIDED E CONTRACT. THESE DRAWINGS AND SPECIFICATION HALL REMAIN THE PROPERTY OF MINOMINICATIONS SERVICES INC. BOTH BEIN SOURCE TO SERVICES INC. BOTH BEIN EPRODUCED, COPIED, OR USED FOR AN URPOSE WITHOUT SPECIFIC WRITTEN PERMISSION

SCALE HORIZONTAL: 1"= 100"

Ensure minimum burial 4' from BOC

CINCO RANCH FT. BEND COUNTY SEE SHEET 16 TO MATCH SURVEY STA. 78+70 (C-C 971' 1-2" HDPE E/W 1-864F CABLE) -36'-NORTHMOOR DR. NORTHMOOR DR. 75+52 -PLACE HH & MKR LEAVE 100' COIL C-C 646' 1-2" HDPE E/W 1-864F CABLE MASON RD Ś 2655 S Mason Rd, Katy, TX 77450 120' ROW SEE SHEET 14 TO MATCH SURVEY STA. 70+10

RIGHT OF WAY LINES WERE ESTABLISHED BY RESEARCH OF PUBLIC INFORMATION. NO BOUNDARY SURVEY OR PROPERTY LINE SURVEY WAS ESTABLISHED BY GOLDEN FIELD SERVICES, INC.. 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

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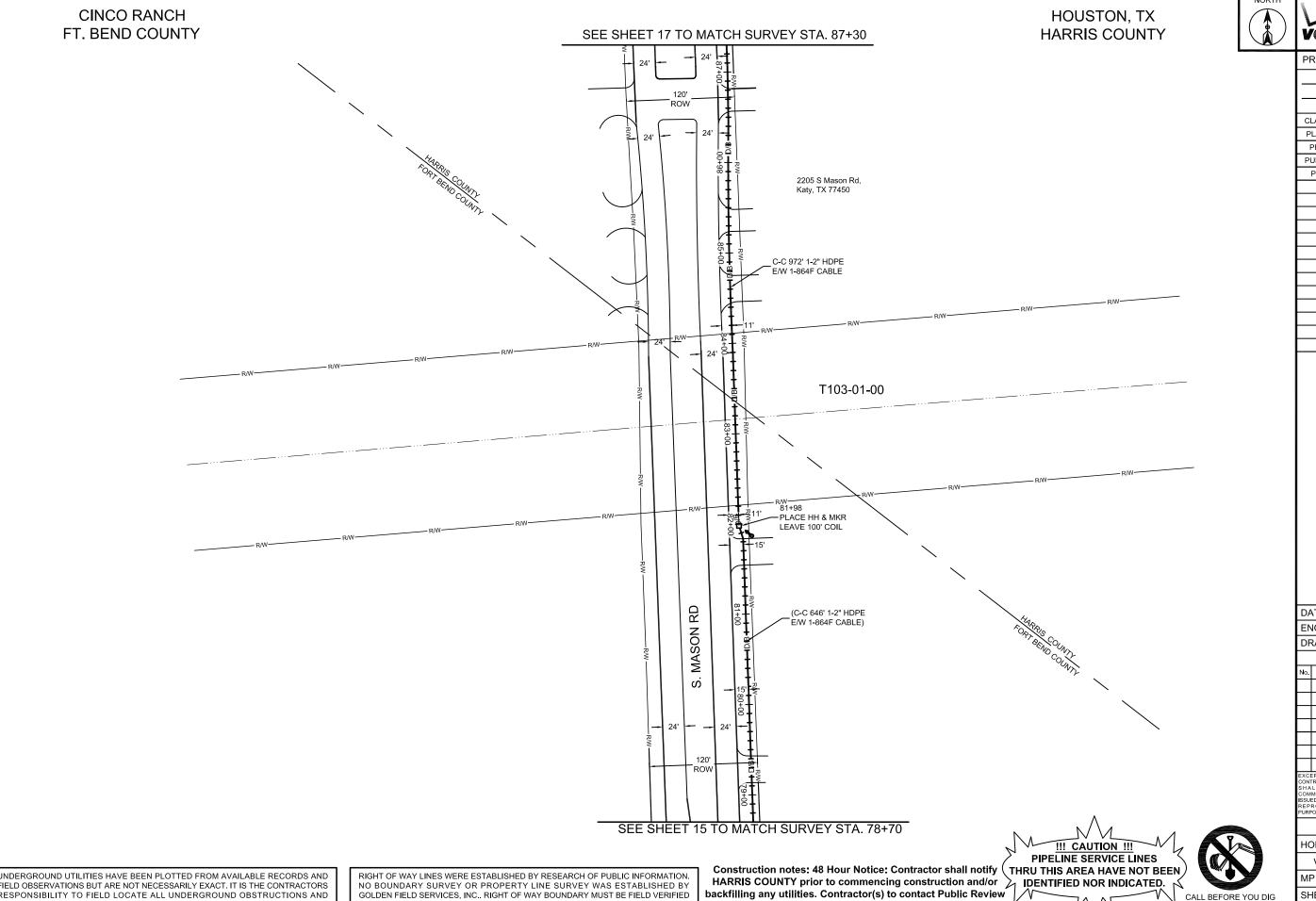
SCALE HORIZONTAL: 1"= 100" VERTICAL: 1"= N/A TO MP SHEET OF 15

FILE: ECC-FBRBLD01015AC.LIN

48 HOURS NOTICE REQUIRED

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1-800-545-6005 48 HOURS NOTICE REQUIRED FILE: ECC-FBRBLD01016 AC.LIN

Verizonbusiness PROJECT: 1708AOZQ.044

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SCALE					
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