

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

Fort Bend County Engineering Department

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

Χ	Right of Way Permit
	Commercial Driveway Permi
Perr	nit No: 2018-17999

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 Amount: \$50,000.00 Bond No: posted. 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. Charly O. D. 1/26/2018 Permit Administrator Date



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

A PA	X Right of Way	y Permit		
	Commercial		ay Permit	
	Permit No: 2018-1	17999		
Appl	icant: MCI Metro Acess Tranmission Services	s, Corp./	Eagle Eye Pe	ermitting & Design, LLC
Job I	Location Site: 6400 Oilfield Road, Missouri Cit	y, TX 77	'459	
Bono	d No Date of Bond:5/1	/2017	_Amount: _	\$50,000.00
Layin Road Comr Texas	above applicant came to make use of certain Fort B ag, Construction, Maintenance, and Repair of Buried is, Streets, Highways, and Drainage Ditches in Fort missioners Court of Fort Bend County, Texas," as pa s, of the Minutes of the Commissioners Court of Fo nsistant with Chapter 181, Vernon's Texas Statutes	d Cables Bend Co assed by ort Bend	, Conduits, an unty, Texas, L the Commiss County, Texas	d Pole Lines, In, Under, Across or Along Inder the Jurisdiction of the ioners Court of Fort Bend County,
Note: 1. 2.	s: Evidence of review by the Commissioners Court of grounds for job shutdown. Written notices are required: a. 48 hours in advance of construction b. When construction is completed an Administrator thru MyGovernment This permit expires one (1) year from date of permiters.	n start u _l nd ready :Online.c	o, and for final inspe org portal.	ection, submit notification to Permit
Comr notic	nis <u>6th</u> day of <u>February</u> , <u>2018</u> , Upon Motion of Commissioner, duly put a me of said above purpose is hereby acknowledged b said notice be placed on record according to the re	ind carri	ed, it is ORDEF mmissioners (• • • • • • • • • • • • • • • • • • • •
Signa	ature	Prese	ented to Com	missioners Court and approved.
Ву:	Charly O. Ad County Engineer	. Date	Recorded	Comm. Court No
Ву:	N/A	Clerk By:	of Commissio	oners Court
	Drainage District Engineer/Manager		Deputy	

ACCESS TRANSMISSION SERVICES CORPORATI **MCImetro**

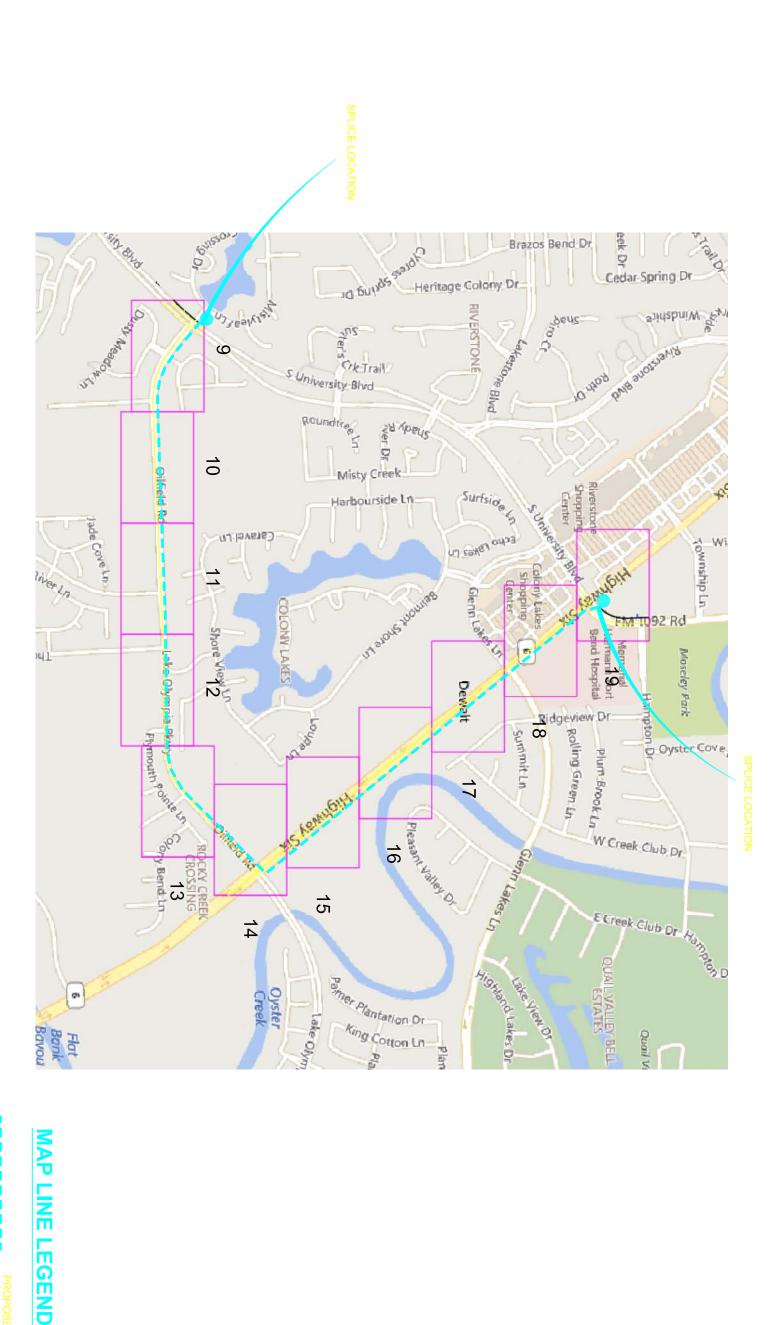
OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE

SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX

SITE NFID: 1706ANAY.013

PROJECT STATUS: CONSTRUCTION





FORT BEND COUNTY

Verizonbusiness

MISSOURI CITY, TX SIENNA VILLAGE RE-ROUTE

NFID: 1706ANAY 013

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE RE-ROUTE

.E: ECC-SIENNA VILLAGE

ĕP RIZONTAL: SCALE TO MP 1"= 유 1"= N/A N/A

IGINEER: EAGLE EYE ROBERT SANTOS MISSOURI CITY, TX

NN BY:

01/7/2018

CONTACT SHEET

'**erizon**business

MISSOURI CITY, TX SIENNA VILLAGE RE-ROUTE

NFID: 1706ANAY 013

MISSOURI CITY, TX FORT BEND COUNTY

NAME OF FIRM: PROJECT COORDINATOR: PROJECT SUPERINTENDENT:	PROJECT MANAGER:	PRESIDENT:		ENGINEERING	PROGRAM MANAGER: LIGHTWAVE ENGINEER: CIVIL ENGINEER: TERMINAL CONST. REP.: SPLICING MANAGER: TSO MANAGER:	COORDINATOR: MANAGER:	AGENT: MANAGER:	OUTSIDE PLANT CON CONSTRUCTION CONTRACTOR: CONSTRUCTION MANAGER: PROJECT COORDINATOR:	MCI PROJECT ENGINEER: PROJECT MANAGER: PROJECT COORDINATOR:
ATOR:	:: OFFICE: E-MAIL	OFFICE: CELL: E-MAIL	OFFICE:	ENGINEERING CONTRACTOR	자. ER.			OUTSIDE PLANT CONSTRUCTION: CONSTRUCTION CONTRACTOR: ERVIN CABLE CONSTRUCTION 844-322-2524 CONSTRUCTION MANAGER: AURELIO MALLAMANCE 270-349-0337 PROJECT COORDINATOR:	tion:
		NON MEMBERS:			UTILITIES MCI UTILITY LOCATE TEXAS ONE CALL SYSTEM (UTILITY LOCATES)				RAILROADS UNION PACIFIC RAILROAD

_ROADS

DANIEL PETERS

402-544-8620

COUNTY GOVERNMENT

HARRIS COUNTY

1-800-624-9675

1-800-545-6005

TXDOT

SAMIR GOEL

STATE GOVERNMENT

713-802-5321

FEDERAL GOVERNMENT

N/A

OTHER

N/A

CITY GOVERNMENT

CITY OF HOUSTON - SANITARY SEWER

- TRAFFIC - ROAD & BRIDGE - STORM QUALITY - WATER

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

832-394-9161	832-394-9160	832-394-9134	2010-400
	Г	Т	

T		Г	
l			
ı			

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

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

ENGINEER: EAGLE	DATE: 01/7/2018	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE

SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX

	No. DATE		DRAWN BY:	ENGINE	DATE: 01/7/2018	
	DESCRIPTION	REVISIONS	BY: ROBERT SANTOS	ENGINEER: EAGLE EYE	01/7/2018	
	ВҮ		TOS			

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

19	OF	03	LEEHS
	TO MP	тс	MP
N/A	1"= N/A	VERTICAL:	VER:
N/A	1"= N/A)NTAL:	HORIZONTAL:
	ΤE	SCALE	

ILE: EC	SHEET	
ECC-SIENNA VILLAGE	03	
IA VILLA	유	
GE	19	

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.
 MCI METRO POLITAN 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
- 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.
- 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.

10

UNDERGROUND CONDUIT WILL BE PLACED AT 48" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.

CLARIFICATION NOTES

- - STATION
 - LOCATION
 - 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

IZONTAL: 1"= N/A

TO MP 유

1"= N/A

SCALE

SIENNA VILLAGE. DWG

CLARIFICATION NOTES (CONTIN (UED)

erīzonbusiness

700	600	500	400	300	200
630 710 711 713 712 714	610 620	510 515 516 517 520 525 518 527 528 530	410 411 415 420	310 315 320 330	210 212 213 214 215 216 216 217 218 219 220 220 221 222 240 244 245 245 246 247 255 255 256 180 270 281
DIRECTIONAL BORE 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	JETTING CONDUIT EMBEDMENT PLOW	DIRECT BURY CABLE EXPOSE DIRECT BURIED CABLE EXPOSE DIRECT BURIED CABLE AND RELOCATE REMOVE AND DISPOSE OF CABLE PLACE AERIAL CABLE RELOCATE AERIAL CABLE DELASH AERIAL CABLE RELASH AERIAL CABLE RELASH AERIAL CABLE REMOVE 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	PLACE CONDUIT PLACE HIGH DENSITY POLYETHYLENE (HDPE) ROCK ADDER SLURRY BACKFILL ADDER SLURRY BACKFILL ADDER EXPOSE CONDUIT AND RELOCATE EXPOSE CONDUIT AND RELOCATE EXPOSE CONDUIT AND REPLACE/SUBSTITUTE EXPOSE AND REMOVE CONDUIT EXPOSE AND REMOVE CONDUIT EXPOSE AND REMOVE CONDUIT EXPOSE AND REMOVE CONDUIT CONCRETE ENCASE REMOVE CONCRETE CAP PLACE HANDHOLE REMOVE EXISTING HANDHOLE RELOCATE HANHOLE REPLACE/SUBSTITUTE HANDHOLE RELOCATE PRECAST MANHOLE RELOCATE PRECAST 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

DATE: 01/7/2018 ENGINEER: EAGLE EYE DRAWN BY: ROBERT REVISIONS No. DATE DESCRIPTION NO. DATE DESCRIPTION EXCIETY AS MAY BE OTHERWISE PICOMITACT, THESE DEAWNIOS AND SER SHALL REMAIN THE PROPERTIES INC. COMMUNICATIONS SERVICES INC. ISSUED NA SHAT COMMUNICATIONS SERVICES INC. ISSUED	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION			NFID: 1706ANAY	IRI CI
EYE EYE S S NO NO NO NO NO NO NO NO	TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX	_		7.013	TY, TX RE-ROUTE

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.
- 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 CLI FARLY 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.

₽

TO MP

유

RIZONTAL:

1"= N/A

SCALE

.E: ECC-SIENNA VILLAGE

MCI OUTSIDE PLANT CONSTRUCTION GENERAL REQUIREMENTS

erizonbusiness

MISSOURI CITY, 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: 01/7/2018	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION													NFID: 1706A	SIENNA VILLAGE
F	TITLE: FIBER OPTIC ROUTE		\vdash	\dashv	+	+	+	+		+	+	+	+	706ANAY.01	Tr
	SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX													ω	
_													_	_	_

CLARIFICATION SUMMARY SHEET PROJECT SPECIFIC

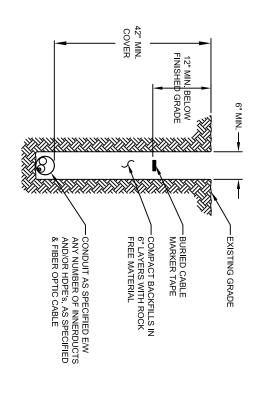
Verizonbusiness
PROJECT:

PROJECT CLARIFICATION SUMMARY		
DESCRIPTION	QUANTITY	UNIT
PLACE (30"x60"x30") HANDHOLE	14	ΕA
PLACE 1-2" HDPE (SDR 11) CONDUIT	12,200	듀
PULL 1-432F CABLE (INCLUDES 1600' IN COILS)	13,800	듀
PLACE (BURIED CABLE) MARKER	14	EΑ

DATE: 01/7/2018 ENGINEER: EAGLE EY DRAWN BY: ROBER: REVISIONS No. DATE DESCRIPTION SALE REMAIN THE PROPER COMMINICATIONS SERVICES NO PER SHEET 4B OF SHEET 4B OF FILE: ECC-SIERNA VIII.	MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION			MISSOURI CIT SIENNA VILLAGE RE NFID: 1706ANA)
BEEYE BERT SANTOS WS WISE PROVIDED BY AND SPECIFICATIONS OP ERTY OF MCIO S INC. BOTH SERION OP ERTY OF MCIO S INC. BOTH SERION THE MICHAPITONS OP ERTY OF MCIO S INC. BOTH SERION THE MICHAPITON FRITTEN PERMISSION. E OF 19 OF 19	TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX			Υ, ΤΧ -ROUTE /.013

FENCE LINE TAX, CITY, COUNTY, OR STATE BOUNDARY LINE BSP/GSP OR SPLIT BSP/GSP CONDUIT TOP OF SLOPE PROPERTY LINE DITCH LINE BACK OF CURB TO BE REMOVED OR ABANDONED (SHOWN FOR HDPE) DIRECTIONAL BORE (& PLACE CONDUIT) REMOVE AND RESTORE ASPHALT OR CONCRETE (WIDTH AS INDICATED) TOE OF SLOPE GUARDRAIL EDGE OF PAVEMENT EDGE OF ROADWAY (GENERIC) RIGHT-OF-WAY CENTERLINE AUXILLARY TRACKS MAIN TRACKS UNDERGROUND UTILITY (TELEPHONE) AERIAL UTILITY (ELECTRIC) REMOVE CABLE FUTURE CABLE CORE BORE STEEL CASING PVC OR SPLIT PVC CONDUIT DIRECT BURIED HDPE SUBMARINE CABLE DIRECT BURIED CABLE JACK AND BORE FOGWIRE CABLE AERIAL CABLE EXISTING SYMBOLS KEY STEEL MARKER AND SIGN-(A) ALUMINUM "HUB"-STYLE MARKER-(B) FLAT MARKER-(C) TUBULAR MARKER-(D) TUBULAR MARKER, & ISOLATOR PROTECTOR-(E) SIDEWALK ANCHOR AND GUY OVERHEAD GUY (ARROW IN DIRECTION OF PULL) ANCHOR ONLY MILE POST MARKER NOTE: DASHED = NOT FOUND IN FIELD CAUTION NOTE FIRE HYDRANT GAS VALVE WATER METER BRIDGE CULVERT (SIZE AS INDICATED) BOND AND GROUND RISER ATTACHMENT LOCATION ANCHOR AND GUY GUY ONLY HANDHOLE, MANHOLE OR PULLBOX UTILITY COVER DEPTH ROCK PROBE (DEPTH AS INDICATED) RAILROAD SIGNAL CONTROL BOX ACCOUNT CODE CHANGE (BURIED TO AERIAL) PUSH BRACE (EXISTING POLE) FOREIGN ANCHOR AND GUY PERMIT TRACKING FORM IDENTIFIER **EXISTING** OHG 92' 10M þ ☐ STA. MKR.# RIZONTAL: **erīzon**business MCImetro NEER: EAGLE EYE SIENNA VILLAGE RE-ROUTE ACCESS TRANSMISSION SERVICES MISSOURI CITY, TX 01/7/2018 NFID: 1706ANAY 013 CORPORATION SCALE TO MP ROBERT SANTO **OUTSIDE PLANT CONSTRUCTION** 유 1"= N/A TITLE: FIBER OPTIC ROUTE N/A SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX

TRENCH & PLACE CONDUIT TYPICAL DETAIL "A"



CROSS SECTION OF PROPOSED HDPE TYPICAL DETAIL "B"

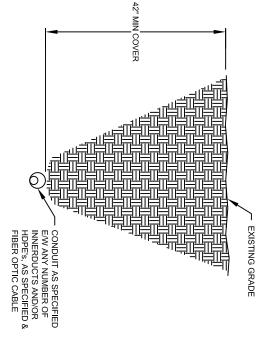
CONSTRUCTION DETAILS



DIRECTIONAL BORE CROSS SECTION FOR CONDUIT TYPICAL DETAI "C"

Verizonbusiness

MISSOURI CITY, TX



3" CORE BORE - 3" O.D. DIAMETER CORE BORE —1-2.375" O.D. HDPE EPOXIED INTO 3" DIAM. CORE BORE -1-2375" O.D. HDPE

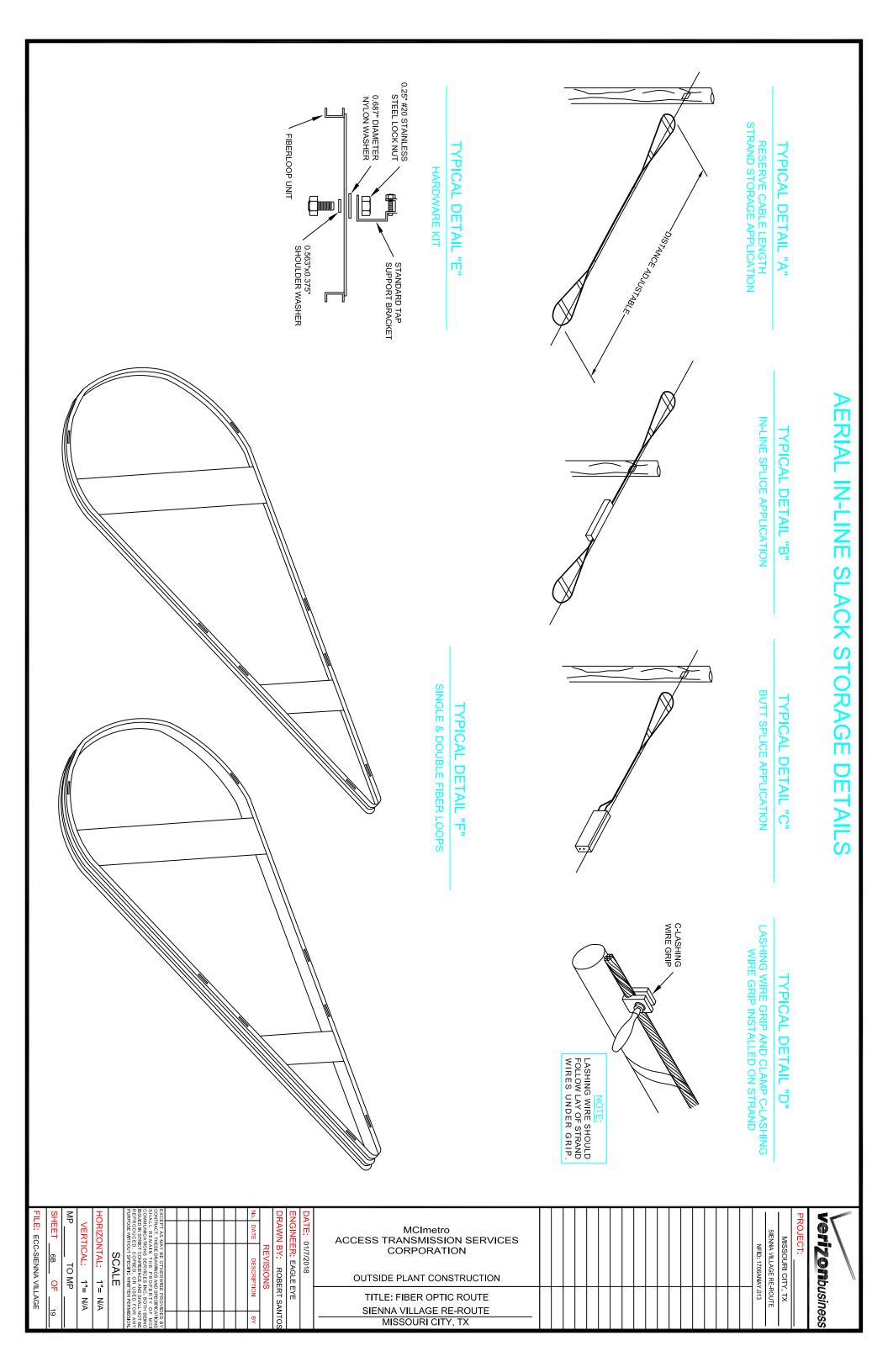
TYPICAL DETAIL "D"

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)

MCImetro ACCESS TRANSMISSION SERVICES CORPORATION ACCESS TRANSMISSION SERVICES CORPORATION REVISIO No. DATE DESCR REVISION NO.		SIENNA VILLAGE RE-ROI NFID: 1706ANAY.013
AGLE EYE NO MP 19 19 10 10 11 NA NA NA NA NA NA NA NA NA		RE-ROUTE

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" TYPICAL 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. 4" 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 OR HANDHOLE LOCATION TYPICAL DETAIL "B" 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 -SNAP CHOR & DOWN GUY 10" CABLE — CABLE LASHER — CAUTION TAG FIBER OPTIC CABLE BLACK IN COLOR -POLE -CABLE LASHING WIRE CLAMP GROUND LEVEL ₽ RIZONTAL: '**erizon**business MCImetro **INEER:** EAGLE EYE NN BY: SIENNA VILLAGE RE-ROUTE ECC-SIENNA VILLAGE ACCESS TRANSMISSION SERVICES 01/7/2018 MISSOURI CITY, TX NFID: 1706ANAY 013 CORPORATION SCALE TO MP ROBERT SANTOS **OUTSIDE PLANT CONSTRUCTION** 유 1"= N/A 1"= N/A TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX



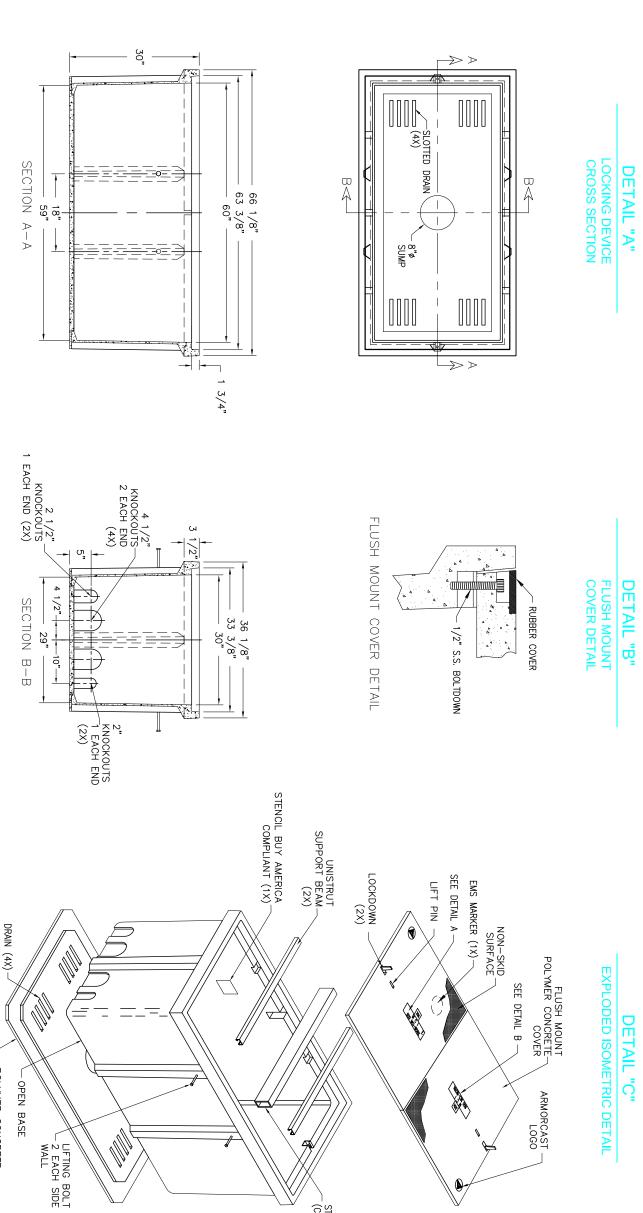
30" x 60" x 30" 30K STANDARD HANDHOLE DETAILS

erizonbusiness

SIENNA VILLAGE RE-ROUTE

NFID: 1706ANAY 013

MISSOURI CITY, TX



STEEL BEAM (CENTER ONLY)

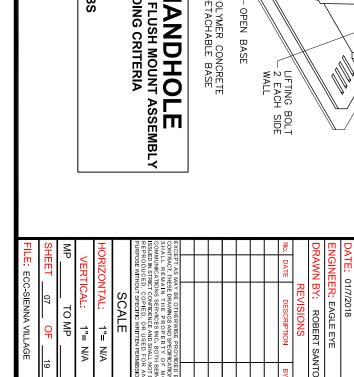
MCImetro

ACCESS TRANSMISSION SERVICES

CORPORATION

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX



POLYMER CONCRETE DETACHABLE BASE

800

C I E I—WORK

800

MCI-WORK

SEALED PLASTIC BAG PLACED INSIDE VAULT TO CONTAIN

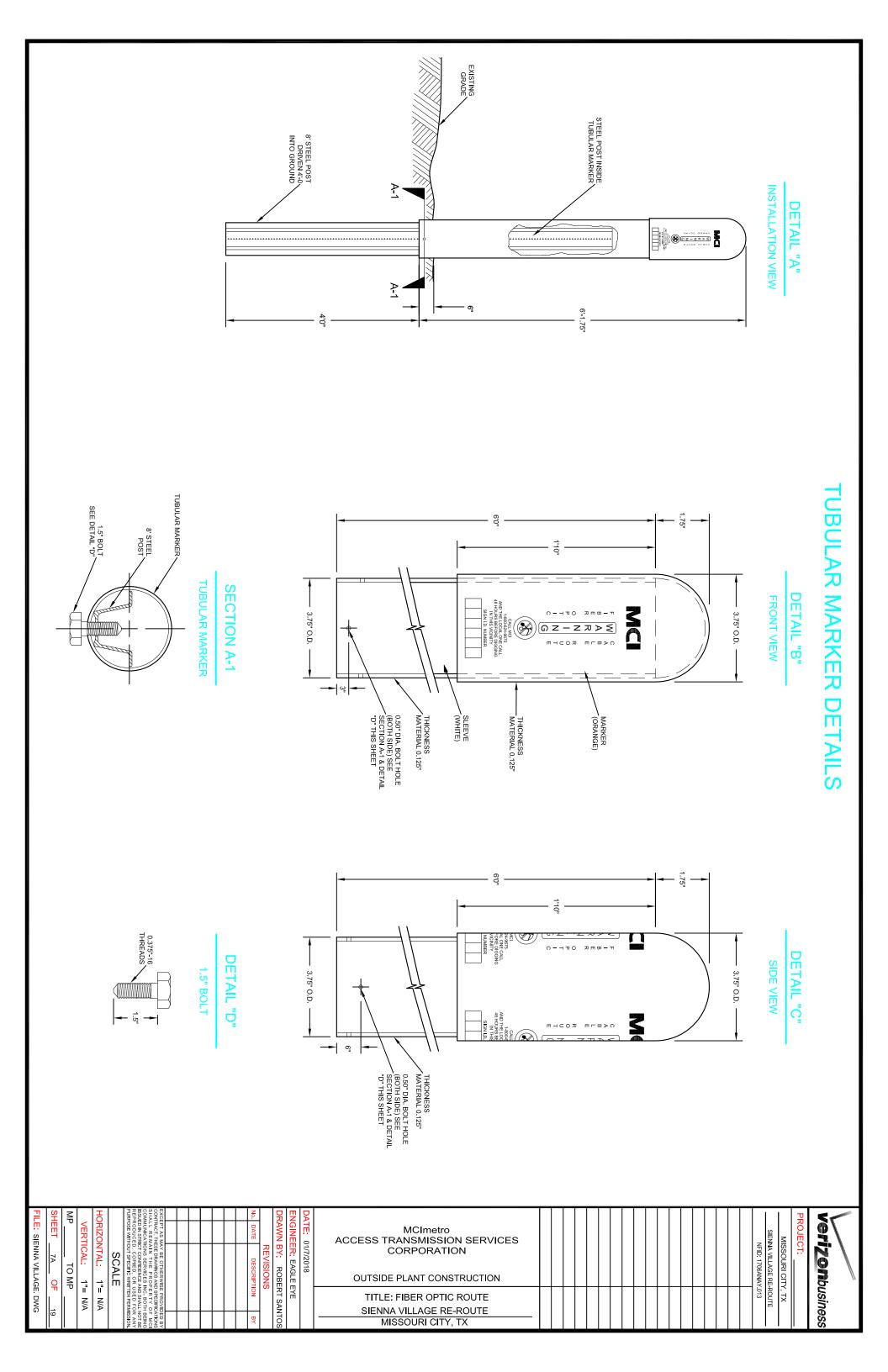
JOHNNY LOCK KEY S.S. JOHNNY BOLTS W/FLAT WASHER. SHRINK WRAP COVERS TO FRAME FOR PACKAGING.

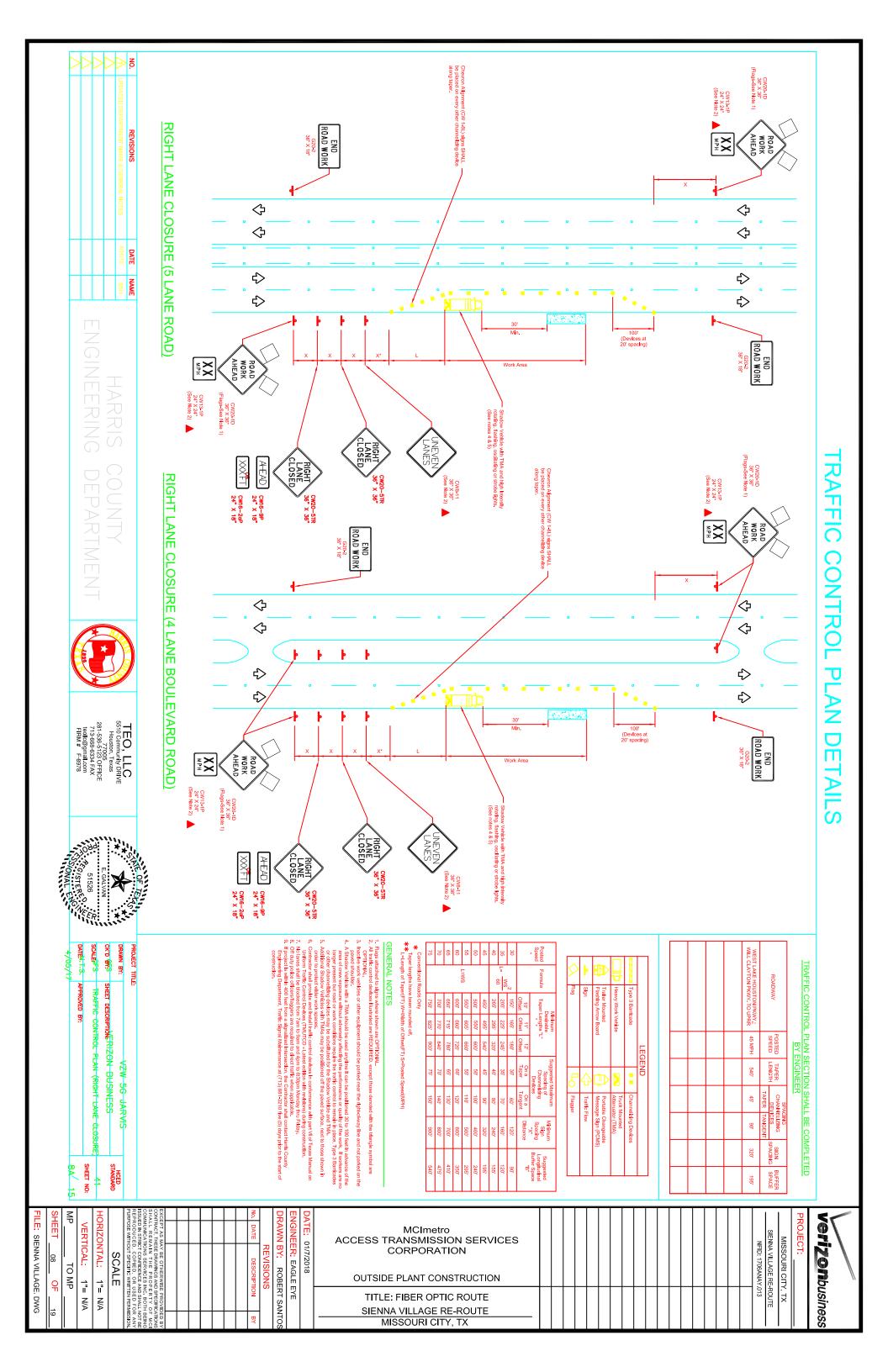
30K STANDARD HANDHO
30"x60"x30" POLYMER CONCRETE FLUSH MOUNT
MEETS SCTE/ANSI 77-TIER 22 LOADING CRITERIA
ADDITIONAL REQUIREMENTS:
DESIGNED LOAD: 30,000 LBS

MINIMUM FAILURE LOAD: 45,000 LBS

DETAIL B

DETAIL A



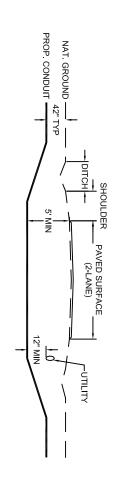


ROAD CROSSING DETAILS

Terizonbusiness

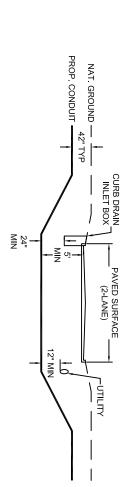
TYPICAL DETAIL "A"

TWO LANE - ASPHALT ROAD - NO CURB



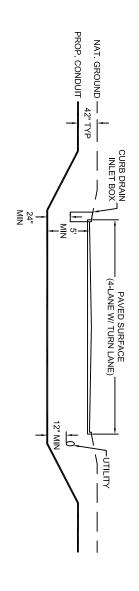
TWO LANE - CURBED ROAD

TYPICAL DETAIL "B"



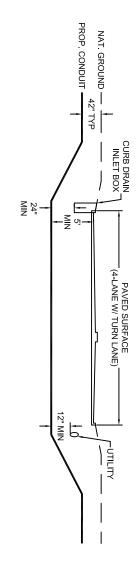
TYPICAL DETAIL "C"

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



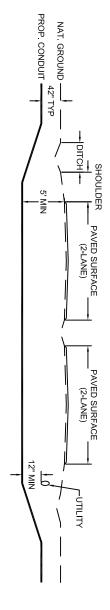
TYPICAL DETAIL "D

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



TYPICAL DETAIL "E"

4 LANE - SPLIT ASPHALT ROAD - NO CURB



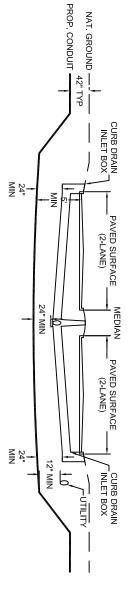
TYPICAL DETAIL "F"

IGINEER: EAGLE EYE

01/7/2018

WN BY: ROBERT SANTOS

4 LANE - SPLIT CURBED ROAD



ORIZONTAL: 1"= N/A

SCALE

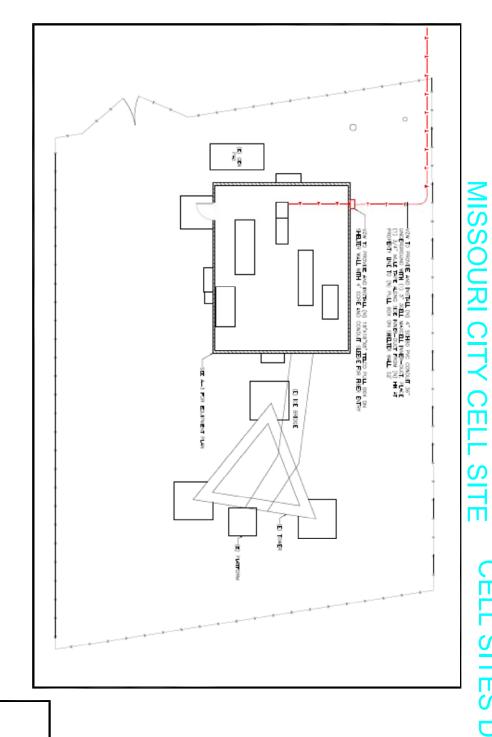
VERTICAL: 1"= N/A

TO MP

E: ECC-SIENNA VILLAGE

08A OF

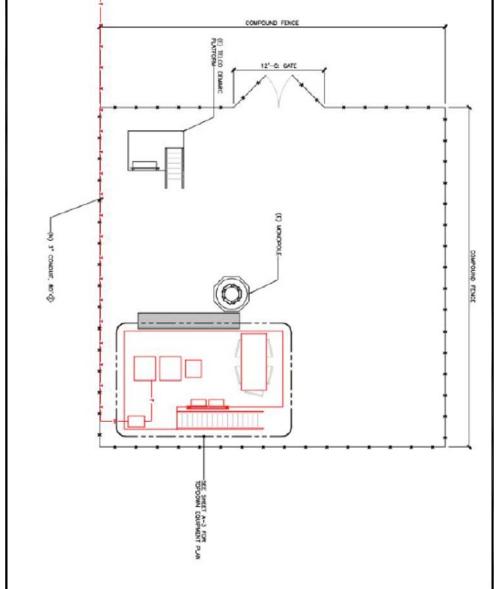
MCImetro ACCESS TRANSMISSION SERVICES CORPORATION OUTSIDE PLANT CONSTRUCTION																	NFID: 1706AN	SIENNA VILLAGE	MISSOURI C	
OUTSIDE FLANT CONSTRUCTION	丄	┖	╙	╙	_	Ш	\perp	_	\perp	\perp	Щ	4	_	\bot	_	Ш	Α	ų.	₹	
TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX																	013	-ROUTE	, TX	
MISSOURI CITT. IA			1	1	ı			- 1		1		- 1	- 1	- 1	- 1				4 I'	



CELL SITES DETAILS

Verizonbusiness

SIENNA VILLAGE CELL TOWER



MERTION TITLE: FIBER OPTIC ROUTE SIENNA VILLAGE RE-ROUTE SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX	LAGE	│ □ □ □ □ □	EPT AS MAY BE OTHERWISE P FRACT, THESE DRAWINGS AND SP LL REWAIN THE PROPER R LL REWAIN THE PROPER R MUNICATIONS SERVICES INC. ED NI STRICT CONVERSIVE AC BUSINESS RODUCED, COPIED, OR USE OSE MITHOUT SPECIFIC WRITTEN SCALE	YE RT SANT	SIENNA VILLAGE RE-ROUTE											10 10	
--	------	---------------------------------	---	------------	-------------------------	--	--	--	--	--	--	--	--	--	--	-------	--

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. EXIST. VZW CONDUIT.

SEE SITE PLAN FOR
MISSOURY CITY SIENNA PLANTATION
FOR CONSTRUCTION ROUTE CONTRACTOR TO SPLICE INTO EXISTING VERIZON FIBER IN EXISTING MCI METRO EXISTING VERICON 1-21-100E S. UNIVERSITY BUILD Ox Ox 0+00 MONTH! EXISTING HH LEAVE 100' 432F COIL 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 VERIFY
RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION. NA SERV 10 Sox STONEBANK OR 1-2" HDPE 1-432F CABLE 10' FORT BEND COUNTY MISSOURI CITY, TX (C-C) 800' 1-2" HDPE 8+00 PLACE HH & MKR, LEAVE 100' 432F COIL 9+00 PIPELINE SERVICE LINES
THRU THIS AREA HAVE NOT BEEN
IDENTIFIED NOR INDICATED. 10' 1-2" HDPE 1-432F CABLE 48 HOURS NOTICE REQUIRED CALL BEFORE SEE SHEET 10 TO MATCH SURVEY STA. 12+27 YOU DIG ĕP Verizon /IISSOURI CITY/SIENNA VILLAGE LATERAI NGINEER: EAGLE EYE ORIZONTAL: 1"= 50' /ERTICAL: 1"= 50' MCImetro ECC-SIENNA VILLAGE ACCESS TRANSMISSION SERVICES MISSOURI CITY, TX NFID: 1706ANAY 013 01/7/2018 CORPORATION SCALE 09 TO MP ROBERT SANTOS **OUTSIDE PLANT CONSTRUCTION** 유 TITLE: FIBER OPTIC ROUTE 1427 1227 SIENNA VILLAGE RE-ROUTE MISSOURI CITY, TX

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 VERIFY

RIGHT OF WAY AND PROPERTY LINES PRIOR TO CONSTRUCTION.

PIPELINE SERVICE LINES
THRU THIS AREA HAVE NOT BEEN
IDENTIFIED NOR INDICATED.

48 HOURS NOTICE REQUIRED

ECC-SIENNA VILLAGE

YOU DIG

ĕP

TO MP

유

ORIZONTAL: 1"= 50'

SCALE

/ERTICAL: 1"= 50'

ENGINEER: EAGLE EYE

ROBERT SANTOS

01/7/2018

MISSOURI CITY, TX

14+00 1 10 1-432F CABLE M6+00 [⊥] 0 16+00 PLACE HH & MKR, LEAVE 100' 432F COIL (C-C) 800' 1-2" HDPE 10' 184-00 OILFIELD RD 0 1-432F CABLE 24+00 PLACE HH & MKR, LEAVE 100' 432F COIL 1-432F CABLE (C-C) 800' 1-2" HDPE SEE SHEET 11 TO MATCH SURVEY STA. 25+48

SEE SHEET 9 TO MATCH SURVEY STA. 12+27



FORT BEND COUNTY MISSOURI CITY, TX



/IISSOURI CITY/SIENNA VILLAGE LATERAI MCImetro ACCESS TRANSMISSION SERVICES MISSOURI CITY, TX NFID: 1706ANAY 013 CORPORATION **OUTSIDE PLANT CONSTRUCTION** TITLE: FIBER OPTIC ROUTE 1521 1321 2 SIENNA VILLAGE RE-ROUTE

