



**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

☒

Right of Way Permit

☐

Commercial Driveway Permit

Permit No: 2017-16030

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

(1) COMPLETE APPLICATION FORM:

☒
☒
☒

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

(2) BOND:

☐

County Attorney, approval when applicable.

☒

Perpetual bond currently posted.

Bond No:



Amount: \$50,000.00

☐

Performance bond submitted.

Bond No:

Amount:

☐

Cashier's Check

Check No:

Amount:

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

We have reviewed this project and agree it meets minimum requirements.

Permit Administrator

10/13/2017

Date

By: _____
Deputy

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION
FIBER OPTIC CABLE ROUTE

PROJECT #: 1706ANBB.008
KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX
FORT BEND COUNTY

SITE CODE: HODATX
09/11/2017

PROJECT STATUS: CONSTRUCTION

SUGAR LAND, TX
FORT BEND COUNTY



SUGAR LAND, TX 77478

[illegible]

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSTON TO ELLIS CREEK

LOCATION MAP

REVISIONS

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

SHEET 2.1 OF 54

FILE:1706ANBB.008-012.1AC.BEL.DWG



ELLIS CREEK TOWER
RANVELL LANE
SUGARLAND, TX 77478

 PROPOSED BURIED CABLE
 PROPOSED AERIAL CABLE

**PROPOSED
AERIAL CABLE**

GENERAL NOTES / CLARIFICATION NOTES

CONSTRUCTION NOTES

- ALL CONDUIT WILL BE 4" ID SCHEDULE 40 (i.e. PVC OR BSP/GSP, MANUFACTURED SPLIT PVC OR SPLIT BSP/GSP), UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. SEE CONTACT SHEET FOR CONTACT NAME AND TELEPHONE NUMBER.
- ALL UNDERGROUND OBSTRUCTIONS, WHEN LOCATED, WILL REQUIRE THE PLACEMENT OF A BURIED CABLE MARKER AND THE PLACEMENT OF 4" MANUFACTURED SPLIT PVC, BSP/GSP OVER OR UNDER EACH OBSTRUCTION.
- SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
- ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 42" MINIMUM COVER UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- MECHANICAL PROTECTION SHALL BE REQUIRED ANYTIME A 36" MINIMUM COVER IS UNOBTAINABLE UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- ALL 90 DEGREE BENDS IN CONDUIT CONSTRUCTION WILL BE A MINIMUM 38.2" RADIUS UNLESS SPECIFIED OTHERWISE. ALL SPLIT CONDUIT BENDS AND SOLID PVC BENDS SHALL REQUIRE CONCRETE ENCASEMENT, UNLESS SPECIFIED OTHERWISE.
- OPERATIONS PERSONNEL TO BE CONTACTED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION. SEE CONTACT SHEET FOR CONTACT NAME AND TELEPHONE NUMBER.
- ALL STATIONING IS BASED ON AS-BUILT INFORMATION, THEREFORE SOME VARIANCE SHOULD BE ANTICIPATED. ADJUST AS NEEDED.
- RAILROAD COMMUNICATION AND SIGNAL CABLES TO BE LOCATED PRIOR TO CONSTRUCTION ACTIVITY. RAILROAD TO BE GIVEN 48 HOURS NOTICE PRIOR TO CONSTRUCTION.
- ALL BURIED CABLE MARKER POSTS AND HARDWARE PLACED AND/OR REMOVED ON ALL NEW AND EXISTING ROUTES SHALL BE IMPLEMENTED AS FOLLOWS:
 - ON THOSE ROUTES THAT ARE CONSIDERED TO BE IN A NORTH TO SOUTH GEOGRAPHICAL ORIENTATION, THE SOUTHERN-MOST SIGN AND POST SHOULD BE REMOVED.
* FOR NEW ROUTES BEING CONSTRUCTED, ONE SIGN POST WILL BE PLACED AT THE NORTH END OF EACH HANDHOLE.
 - ON THOSE ROUTES THAT ARE CONSIDERED TO BE IN AN EAST TO WEST GEOGRAPHICAL ORIENTATION, THE WESTERN-MOST SIGN AND POST SHOULD BE REMOVED.
* FOR NEW ROUTES BEING CONSTRUCTED, ONE SIGN POST WILL BE PLACED AT THE EAST END OF EACH HANDHOLE.

GENERAL NOTES

- MCI COMPRISES THE FOLLOWING OPERATING ENTITIES:
- MCI COMMUNICATIONS SERVICES, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES, LLC
 - MCI METRO ACCESS TRANSMISSION SERVICES OF VIRGINIA, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES OF MASSACHUSETTS, INC.
 - METROPOLITAN FIBER SYSTEMS OF NEW YORK, INC.
2. ALL WORK TO BE DONE WITH EXTREME CAUTION !
FIBER OPTIC CABLE IS CARRYING TRAFFIC AND LOSS OF SERVICE WILL RESULT IN LOSS OF REVENUE. CONTRACTOR SHALL NOT WORK IN A MANNER THAT MAY AFFECT TRAFFIC-CARRYING FACILITIES IN THE ABSENCE OF AN MCI EMPLOYEE OR CERTIFIED CONTRACTOR.
3. ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, VERIZON BUSINESS, OR THE RIGHT-OF-WAY- GRANTOR.
4. LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD VALUATION MAPS OR OTHER DRAWINGS, AND MAY BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
5. 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 EVENT OF CONFLICTS.
6. 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.
7. 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 OR BETTER CONDITION.
8. EQUIPMENT TYPES SPECIFIED HEREIN (ie: "BACKHOE, "SWAMP PLOW", ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS. CONTRACTOR WILL BE NOTIFIED AS TO EXCEPTIONS.

ADDENDUM NOTES

CLARIFICATION NOTES (CONTINUED)

JACK AND DRY BORE CONDUITS

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
EXPOSE AND REMOVE CONDUIT (ABANDONED)
CONCRETE ENCASE
REMOVE CONCRETE ENCASEMENT
REMOVE CONCRETE CAP
PLACE HANDHOLE
REMOVE EXISTING HANDHOLE
RELOCATE HANHOLE
REPLACE/SUBSTITUTE HANDHOLE
EXCAVATE SPLICE PIT
PLACE MANHOLE
REMOVE EXISTING MANHOLE
RELOCATE PRECAST MANHOLE
REPLACE/SUBSTITUTE PRECAST MANHOLE
CONSTRUCT WALL
REMOVE AND RESTORE ASPHALT
REMOVE AND RESTORE CONCRETE
REMOVE AND RESTORE SIDEWALK
REMOVE AND RESTORE CURBING

ATTACH CONDUIT TO WALL OR STRUCTURE
DETACH CONDUIT FROM WALL OR STRUCTURE
CORE BORE
ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE

PULL CABLE
PULL THROUGH DUCT (INNERDUCT)
REMOVE CABLE FROM CONDUIT
REPOSITION ACTIVE CABLE SLACK

DIRECT BURY CABLE
EXPOSE DIRECT BURIED CABLE
EXPOSE DIRECT BURIED CABLE AND RELOCATE
REMOVE AND DISPOSE OF CABLE
PLACE AERIAL CABLE
RELOCATE AERIAL CABLE
DEFLASH AERIAL CABLE
RELASH AERIAL CABLE
REMOVE AERIAL CABLE
PLACE POLE/PUSH BRACE
REMOVE POLE/PUSH BRACE

JETTING CONDUIT
EMBEDMENT FLOW
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

[illegible]

UNION PACIFIC RAILROAD GENERAL NOTES

GENERAL NOTES

1. FIBER OPTIC INSTALLATION ON UNION PACIFIC RAILROAD SHALL CONFORM TO THE UNION PACIFIC MANUAL "FIBER OPTIC ENGINEERING, CONSTRUCTION AND MAINTENANCE STANDARDS", LATEST EDITION.
2. ALL WORKERS ON RAILROAD PROPERTY MUST BE UNION PACIFIC RAILROAD SAFETY TRAINED AND WEAR RAILROAD APPROVED PERSONAL PROTECTIVE EQUIPMENT.
3. PRIOR TO ANY EXCAVATION ON UNION PACIFIC RIGHT OF WAY, IT IS MANDATORY TO CALL UNION PACIFIC'S "CALL BEFORE YOU DIG" NUMBER, 800-336-9193, TO ASCERTAIN IF ANY FIBER OPTIC CABLES EXIST IN THE PROJECT AREA. THIS MUST BE DONE A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY, THIS IS IN ADDITION TO ANY STATE ONE-CALL NOTIFICATIONS.
4. DIRECTIONAL BORES MUST BE APPROVED PRIOR TO CONSTRUCTION.
5. TRACK BORES MUST BE CASED IF LESS THAN TEN FEET BELOW THE BASE OF THE RAIL. ALL MULTIPLE-DUCT BORES MUST BE CASED. THE CASING MUST EXTEND A MINIMUM OF 30 FEET FROM THE CENTERLINE OF THE NEAREST TRACK WHEN MEASURED AT RIGHT ANGLES TO THE TRACK.
6. NO EXCAVATION IS ALLOWED WITHIN 12 FEET OF ANY TRACK. ALL EXCAVATIONS MUST BE SHORED IN ACCORDANCE WITH OSHA STANDARDS. SHORING FOR EXCAVATIONS ON RAILROAD RIGHT-OF-WAY MUST BE APPROVED BY THE VP ENGINEERING.
7. BORE PITS ARE TO BE LOCATED A MINIMUM OF 30 FEET FROM THE CENTERLINE OF THE NEAREST TRACK WHERE POSSIBLE. BORE PITS ARE NOT ALLOWED IN THE CUT OR FILL SECTIONS OF THE ROADBED.
8. TRENCHES AND BORE PITS ARE TO BE FILLED OR FENCE-PROTECTED AT THE END OF EACH DAY.
9. EXCAVATIONS ARE TO BE FILLED AND COMPACTED TO MATCH NATURAL CONDITIONS OF THE SURROUNDING AREA.

GENERAL NOTES (CONTINUED)

10. DO NOT FOUL THE BALLAST. KEEP ALL DIRT AND OTHER FOREIGN MATERIALS OUT OF THE TRACK BALLAST SECTION.
11. THE RIGHT-OF-WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER, INCLUDING SEEDING WITH NATIVE GRASSES.
12. CABLE SHALL BE INSTALLED A MINIMUM OF 42" BELOW NATURAL GROUND. THIS DEPTH SHALL INCREASE TO 60" UNDER TRACKS (DRY BORE ONLY), CULVERTS AND DITCHES.
13. HANDHOLES, SPLICE BOXES AND MANHOLES MUST BE DESIGNED FOR AASHTO H-20 LOADING AND MUST BE INSTALLED SO AS NOT TO CREATE A STUMBLING HAZARD.
14. MARKER POSTS MUST BE INSTALLED SO AS NOT TO CREATE STUMBLING OR IMPALING HAZARDS, OR IN A LOCATION THAT OBSTRUCTS RAILROAD OPERATIONS.
15. CREEK BEDS THAT HAVE BEEN PLOWED OR CUT MUST BE RESTORED AND PROTECTED BY RIP RAP OR OTHER RAILROAD APPROVED EROSION CONTROL PROCEDURES.
16. ANY DEVIATIONS FROM THE APPROVED PLANS MUST BE APPROVED BY THE UP CONSTRUCTION COORDINATOR ASSIGNED TO THE PROJECT. ALL CHANGES MUST BE RECORDED ON THE AS-BUILT PLANS.
17. THE CABLE MUST BE LOCATED ON THE FIELD SIDE OF THE RAILROAD FACILITIES.
18. INSTALLATIONS NEAR RAILROAD SIGNAL FACILITIES WILL REQUIRE COORDINATION THROUGH THE UP CONSTRUCTION COORDINATOR WITH THE UP SIGNAL DEPARTMENT. SIGNAL DEPARTMENT PERSONNEL WILL REMOVE AND REPLACE ALL GUY WIRES ATTACHED TO RAILROAD POLE LINES.

PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO. QUANTITY

ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGAR LAND, TX 77478
UNION PACIFIC RAILROAD GENERAL NOTES

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

SHEET 05 OF 54

FILE: 1706ANBB. 008-0105AC. BEL. DWG

FOCUS PROGRAM



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- FOCUS.
- 2) FOCUS 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 FOCUS is mandatory at every Pre-bid, Pre-construction, site meeting and daily tailgate meeting. FOCUS 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 asbuilts.
 - 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 15 feet (but not closer than 5 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 30 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 facilities are clearly visible.
 - In addition, mechanical excavation within three feet of OSP facilities requires onsite 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.

Release 1.0



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.

Release 1.0

PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO. QUANTITY

MCI metro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGAR LAND, TX 77478
FOCUS PROGRAM

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

SHEET 06 OF 54

FILE:1706ANBB.008-0106AC.BEL.DWG

SYMBOLS KEY

	EXISTING	PROPOSED
BURIED CABLE		
AERIAL CABLE		
SUBMARINE CABLE		
FOGWIRE CABLE		
DIRECT BURIED HDPE		
PVC OR SPLIT PVC CONDUIT		
BSP/GSP OR SPLIT BSP/GSP CONDUIT		
STEEL CASING		
REMOVE AND RESTORE ASPHALT OR CONCRETE (WIDTH AS INDICATED)		
CORE BORE		
JACK AND BORE		
DIRECTIONAL BORE		
FUTURE CABLE		
REMOVE CABLE		
TO BE REMOVED OR ABANDONED (SHOWN FOR HDPE)		
AERIAL UTILITY (ELECTRIC)		
UNDERGROUND UTILITY (TELEPHONE)		
MAIN TRACKS		
AUXILLARY TRACKS		
CENTERLINE		
RIGHT-OF-WAY		
EDGE OF PAVEMENT		
SIDEWALK		
DITCH LINE		
TAX DISTRICT		
CITY, COUNTY OR STATE BOUNDARY LINE		
PROPERTY LINE		
FENCE LINE		
GUARDRAIL		
TOP OF SLOPE		
TOE OF SLOPE		

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

MILE POST MARKER
NOTE:
DASHED = NOT FOUND IN FIELD

PERMIT TRACKING FORM IDENTIFIER

ROCK PROBE (DEPTH AS INDICATED)

UTILITY COVER DEPTH

HANDHOLE, MANHOLE OR PULLBOX

POLE

ANCHOR ONLY

GUY ONLY

OVERHEAD GUY (ARROW IN DIRECTION OF PULL)

ANCHOR AND GUY

SIDEWALK ANCHOR AND GUY

FOREIGN ANCHOR AND GUY

PUSH BRACE (EXISTING POLE)

ACCOUNT CODE CHANGE (BURIED TO AERIAL)

BOND AND GROUND

CULVERT (SIZE AS INDICATED)

BRIDGE

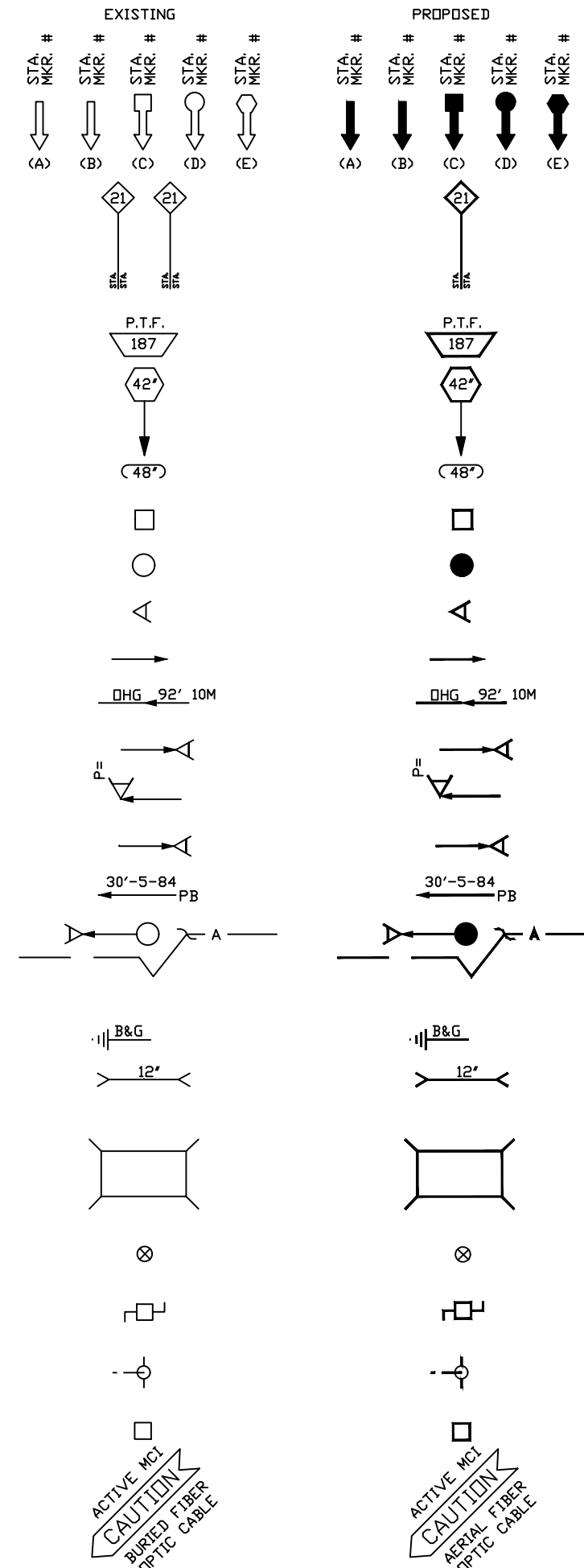
WATER METER

GAS VALVE

FIRE HYDRANT

RAILROAD SIGNAL CONTROL BOX

CAUTION NOTE



PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO.	QUANTITY
-------------------	----------

MCImetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGAR LAND, TX 77478
SYMBOLS KEY

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

[illegible]

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

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP	TO MP
----	-------

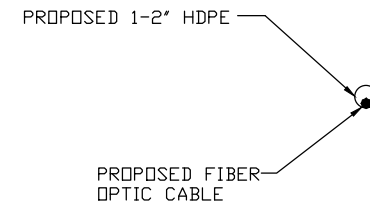
SHEET 07 OF 54

FILE:1706ANBB.008-0107AC.BEL.DWG

CONSTRUCTION DETAILS

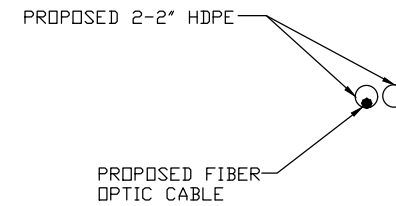
TYPICAL DETAIL A

CROSS SECTION OF PROPOSED HDPE



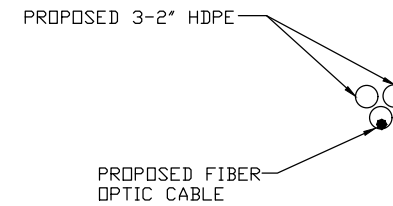
TYPICAL DETAIL B

CROSS SECTION OF PROPOSED HDPE



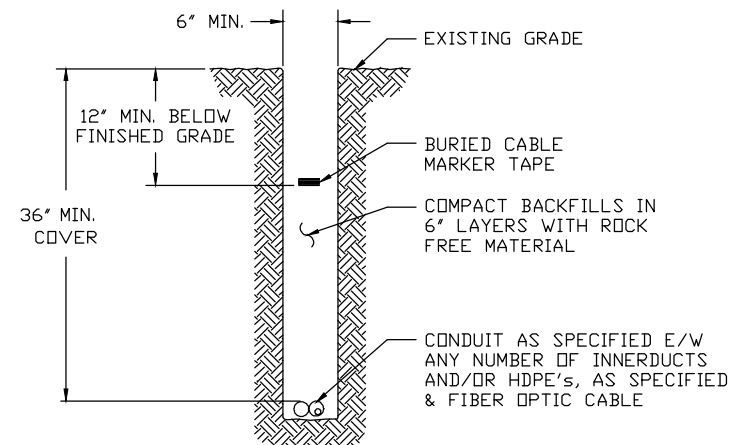
TYPICAL DETAIL C

CROSS SECTION OF PROPOSED HDPE

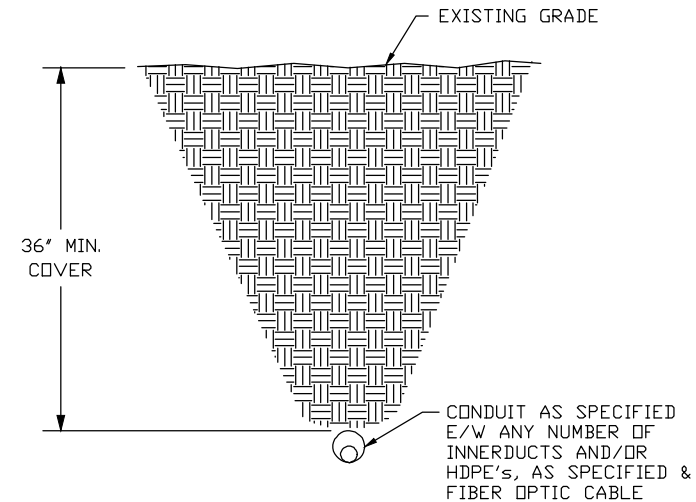


TYPICAL DETAIL D

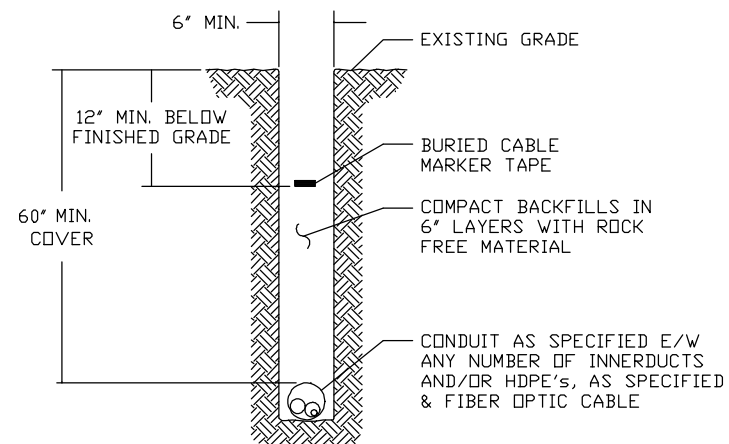
TRENCH & PLACE CONDUIT
CITY OF SUGAR LAND & FORT BEND COUNTY



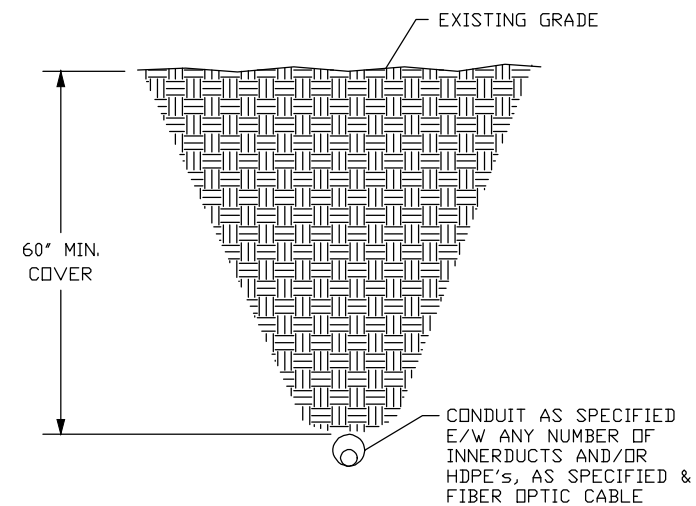
TYPICAL DETAIL E
DIRECTIONAL BORE CROSS SECTION
FOR CONDUIT
CITY OF SUGAR LAND & FORT BEND COUNTY



TYPICAL DETAIL F
TRENCH & PLACE CONDUIT
IN TXDOT RIGHT OF WAY



TYPICAL DETAIL G
DIRECTIONAL BORE CROSS SECTION
FOR CONDUIT
IN TXDOT RIGHT OF WAY



PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO.	QUANTITY
-------------------	----------

MCImetro
ACCESS TRANSMISSION SERVICES CORP.,
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPONT TO ELLIS CREEK
SUGAR LAND, TX 77478
CONSTRUCTION DETAILS

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

[illegible]

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

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

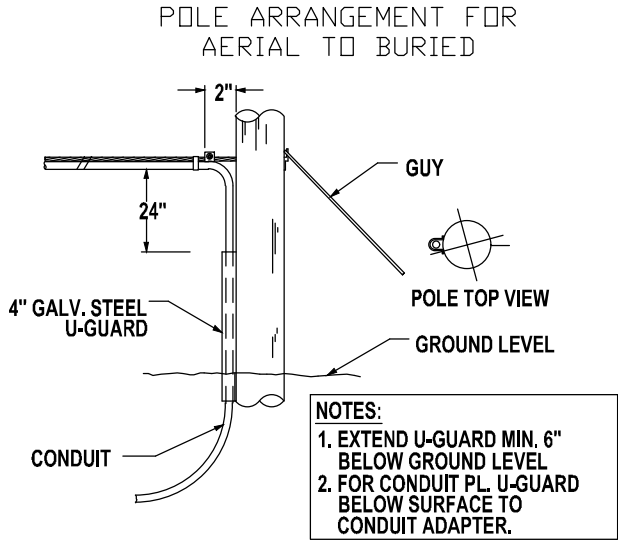
MP	TO MP
----	-------

SHEET	08	OF	54
-------	----	----	----

FILE:1706ANBB.008-0108AC.BEL.DWG

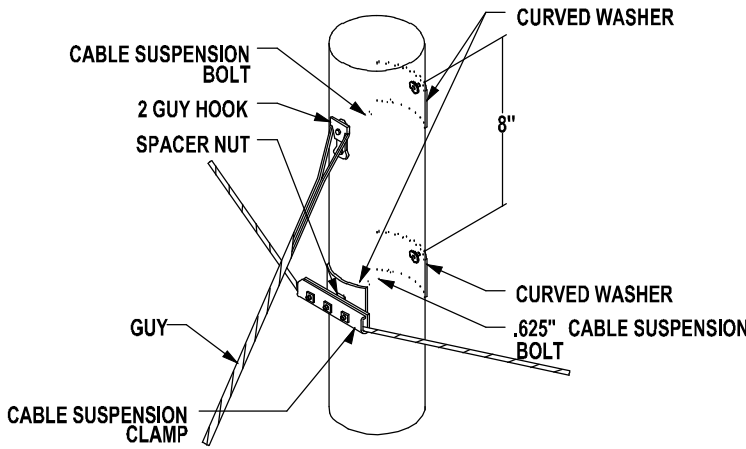
TYPICAL AERIAL CONSTRUCTION DETAILS

TYPICAL DETAIL "A"



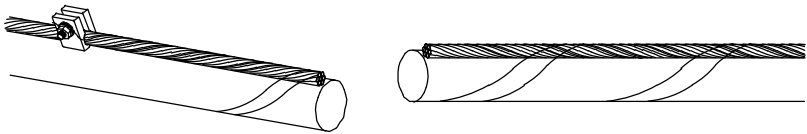
TYPICAL DETAIL "D"

SUSPENSION STRAND - PULL TOWARD POLE - LESS THAN 5 FEET



TYPICAL DETAIL "G"

JOINING 045 LASHING WIRE



FORMING WIRE OVER STUD OF CLAMP

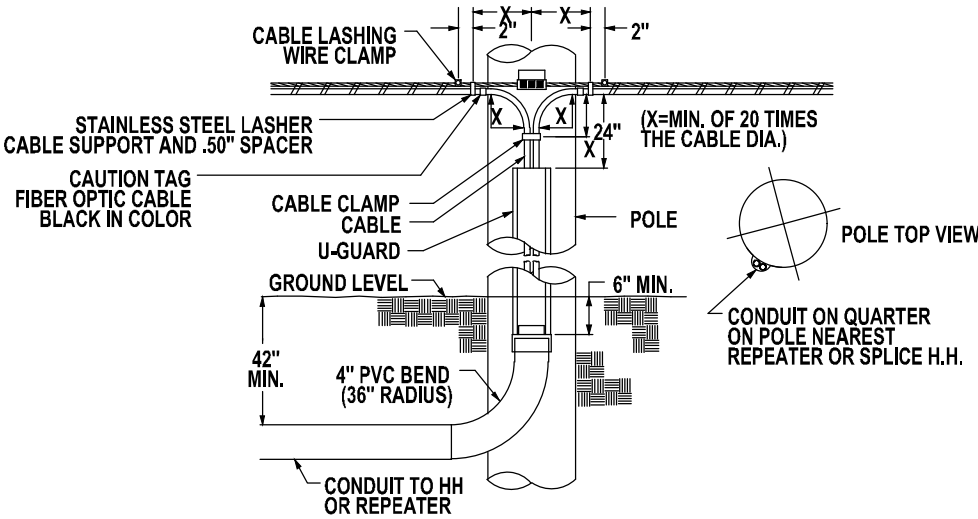
FORMING LASHING WIRE AROUND STRAND

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 .75" BEYOND THE END OF THE CLAMP.

FORM THE LASHING WIRE AROUND THE STRAND AND PLACE IT BELOW THE STUD AND BETWEEN THE SECOND WASHER AND STUD SHOULDER.

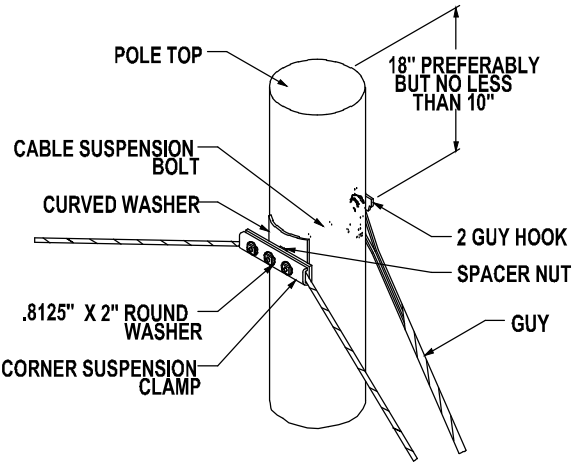
TYPICAL DETAIL "B"

POLE ARRANGEMENT FOR REPEATER OR HANDHOLE LOCATION



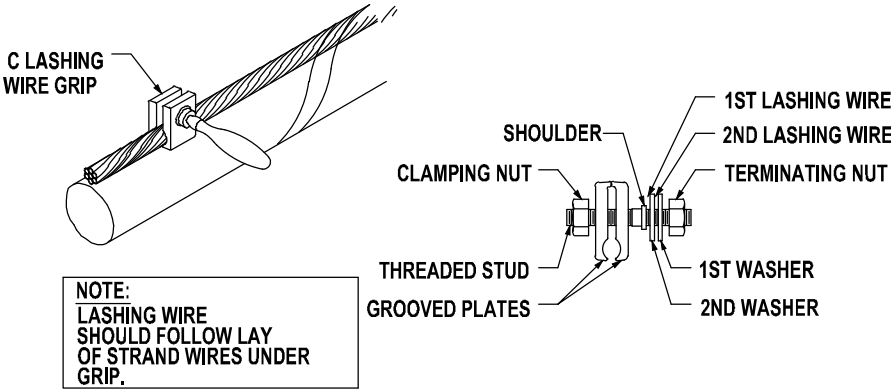
TYPICAL DETAIL "E"

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



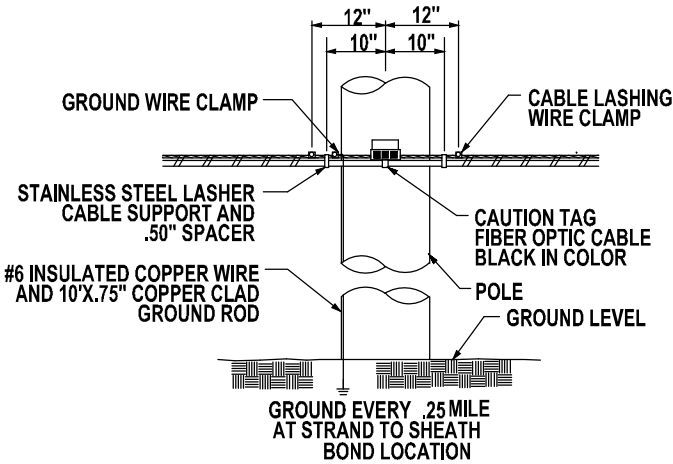
TYPICAL DETAIL "H"

LASHING WIRE GRIP AND CLAMP



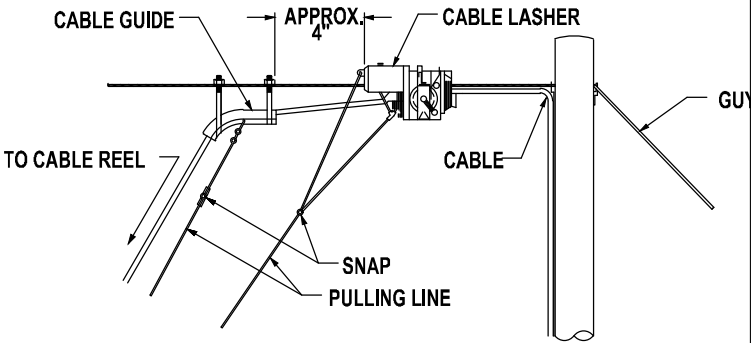
TYPICAL DETAIL "C"

TYPICAL CABLE & HARDWARE INSTALLATION



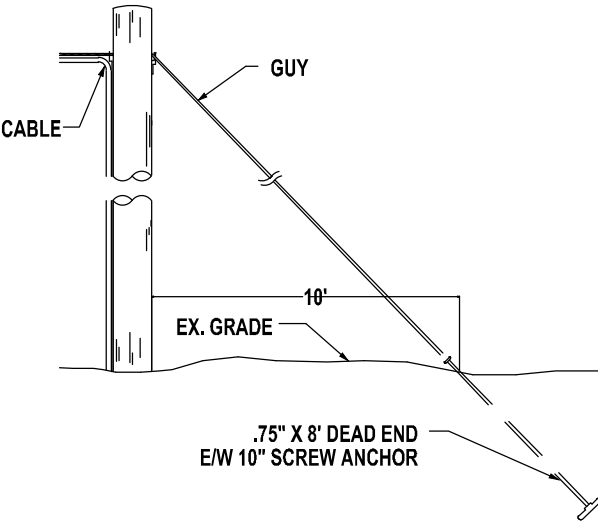
TYPICAL DETAIL "F"

TYPICAL ARRANGEMENT OF CABLE LASHER AND CABLE GUIDE



TYPICAL DETAIL "I"

ANCHOR & DOWN GUY



PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO. QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGAR LAND, TX 77478
TYPICAL AERIAL CONSTRUCTION DETAILS

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

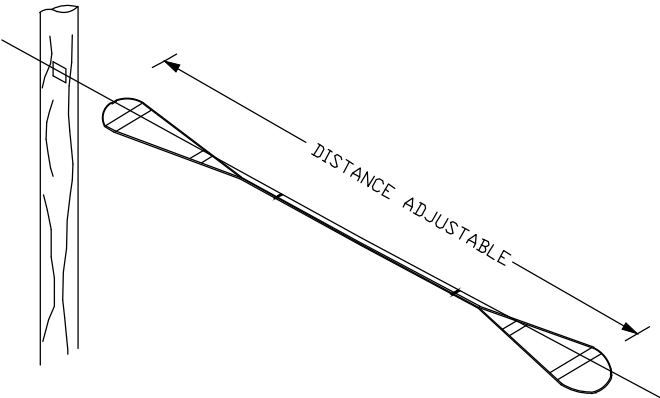
DATE DESCRIPTION INITIAL

- - -

TYPICAL AERIAL CONSTRUCTION DETAILS (CONT.)
TYPICAL AERIAL IN-LINE SLACK STORAGE DETAILS

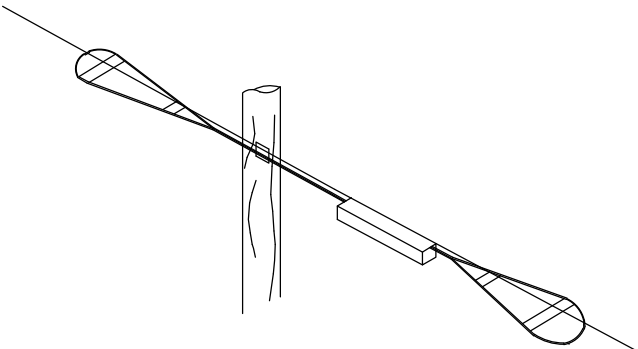
TYPICAL DETAIL "A"

RESERVE CABLE LENGTH
STRAND STORAGE APPLICATION



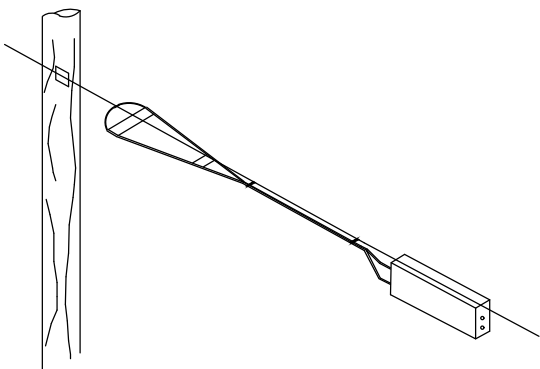
TYPICAL DETAIL "B"

IN-LINE SPLICE APPLICATION



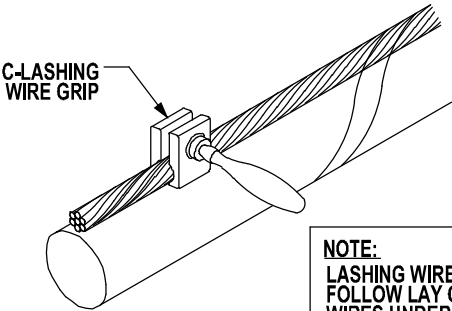
TYPICAL DETAIL "C"

BUTT SPLICE APPLICATION



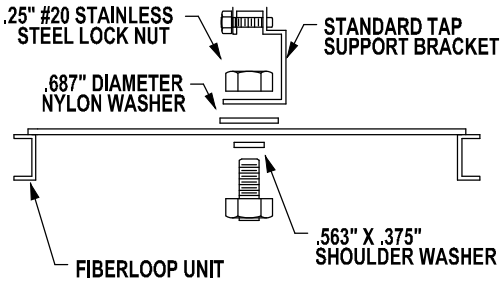
TYPICAL DETAIL "D"

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



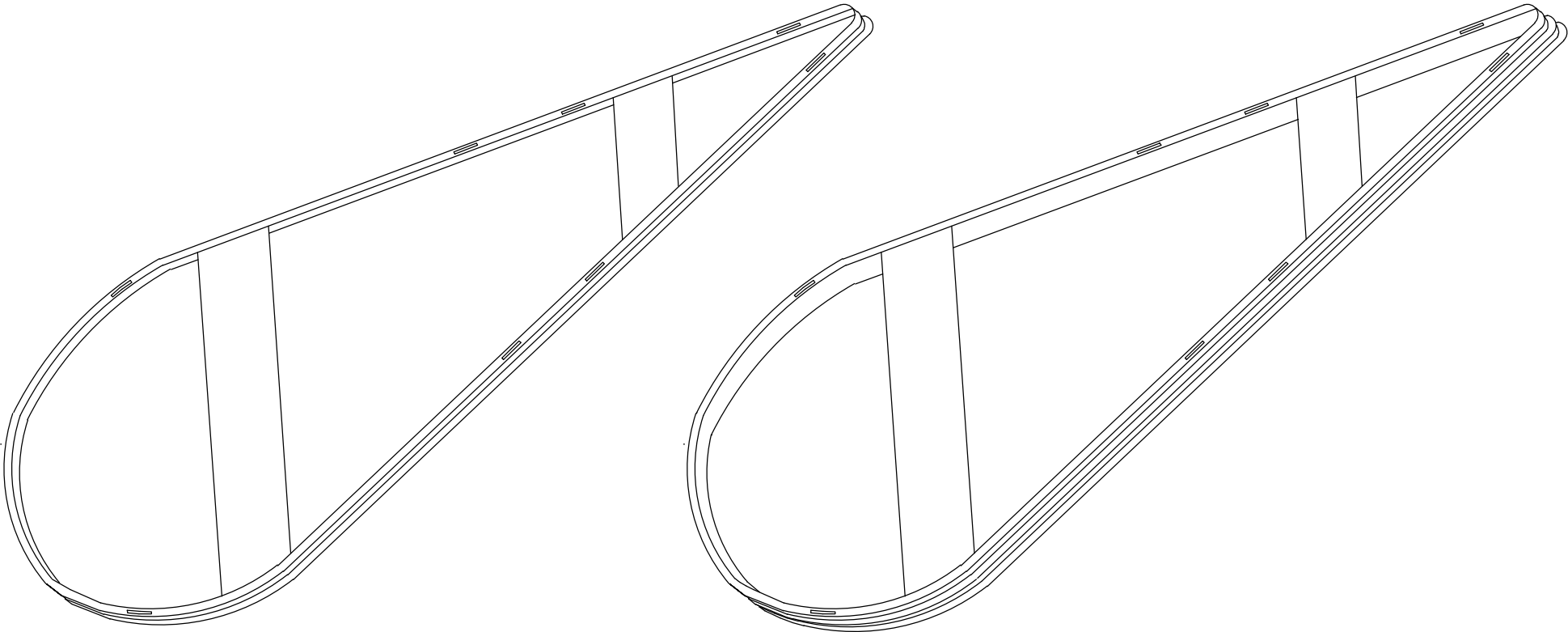
TYPICAL DETAIL "E"

HARDWARE KIT



TYPICAL DETAIL "F"

SINGLE & DOUBLE FIBER LOOPS



PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO. QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

TYPICAL AERIAL CONSTRUCTION DETAILS

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

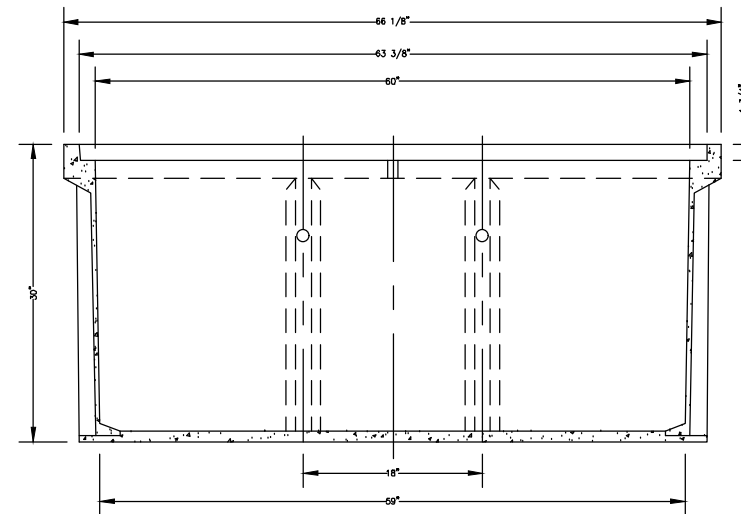
SHEET 10 OF 54

FILE: 1706ANBB. 008-0110AC. BEL. DWG

PROJECT: 1706ANBB. 008

SUGAR LAND, TX 77478

CLARIFICATION NO.	QUANTITY
-------------------	----------



Technical drawing of Section B-B of a rectangular structure. The drawing shows a cross-section with a central vertical channel and side walls. Dimensions are provided in inches.

Dimensions:

- Top width: 36 1/8"
- Top width (inner): 33 3/8"
- Top width (inner): 30"
- Left side height: 3 1/2"
- Bottom width: 29"
- Bottom width (inner): 4 1/2"
- Bottom width (inner): 10"
- Bottom height: 2 1/2"
- Side wall height: 4 1/2"

Knockouts:

- 4 1/2" KNOCKOUTS 2 EACH END (4X)
- 2 1/2" KNOCKOUTS 1 EACH END (2X)
- 2" KNOCKOUTS 1 EACH END (2X)

SECTION B-B

SECTION B-B

30K
M C I
800 MCI-WORK
DETAIL A-2

1 (1) JOHNNY LOCK KEY
2 (2) S.S JOHNNY BOLT W/FLAT WASHER.
3 SHRINK WRAP COVERS TO FRAM FOR
PACKAGING.

MCImetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPONT TO ELLIS CREEK
SUGAR LAND, TX 77478
1.5' x 5' x 2.5' 30K STANDARD HANDHOLE DETAILS

REVISIONS

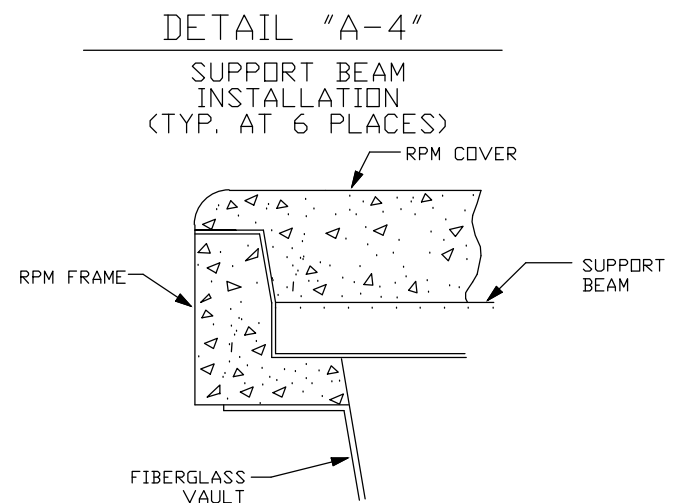
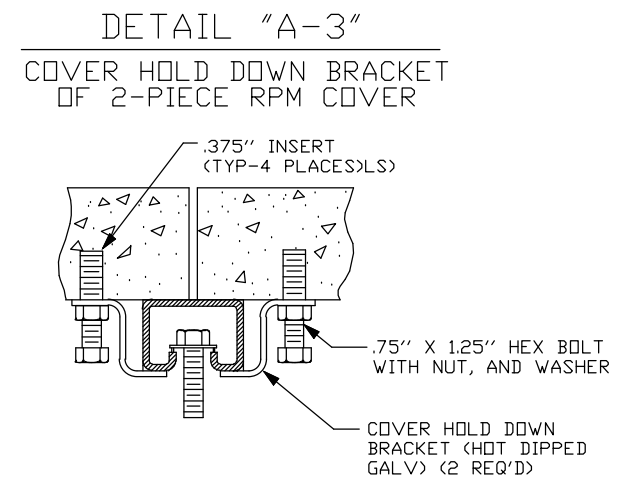
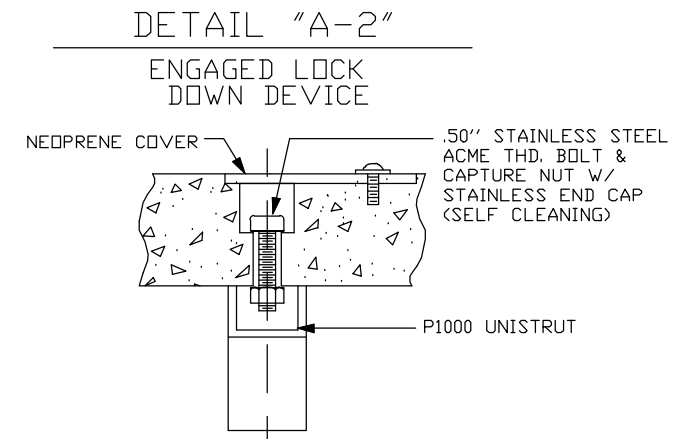
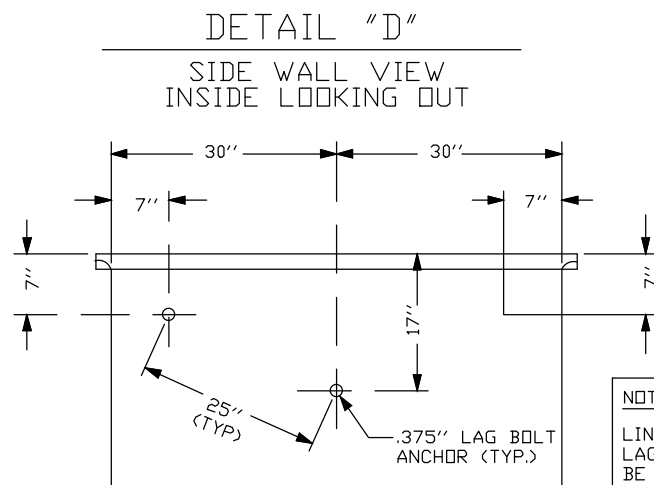
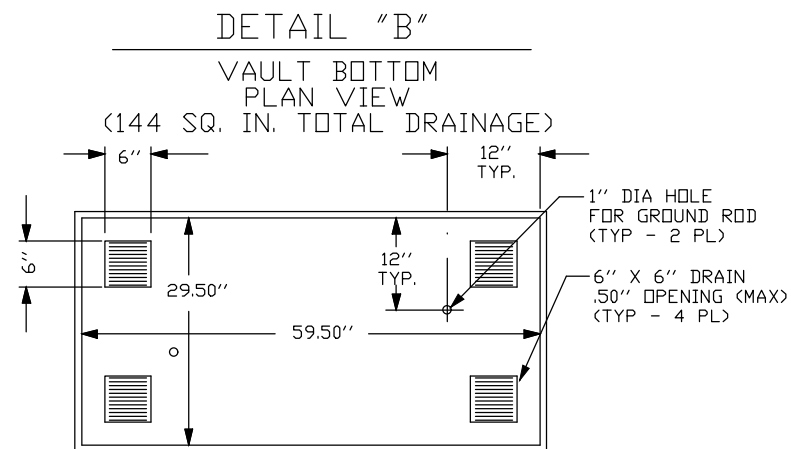
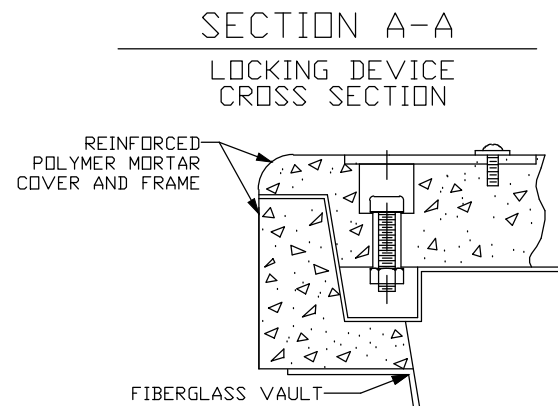
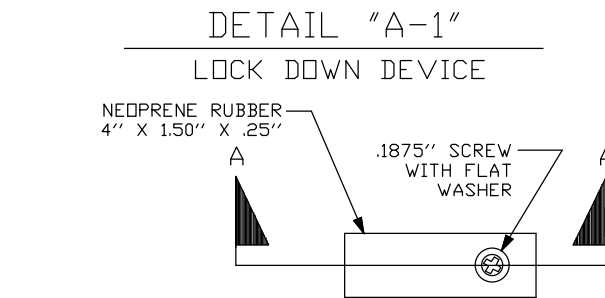
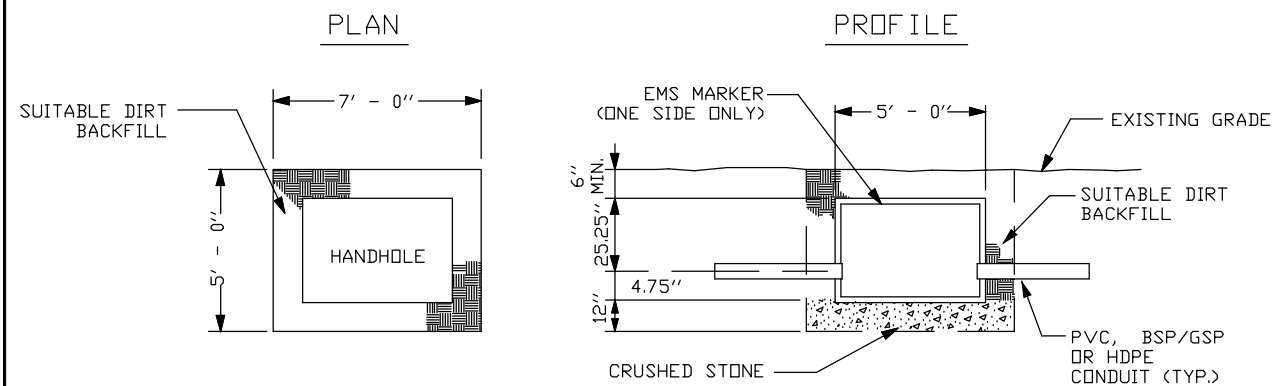
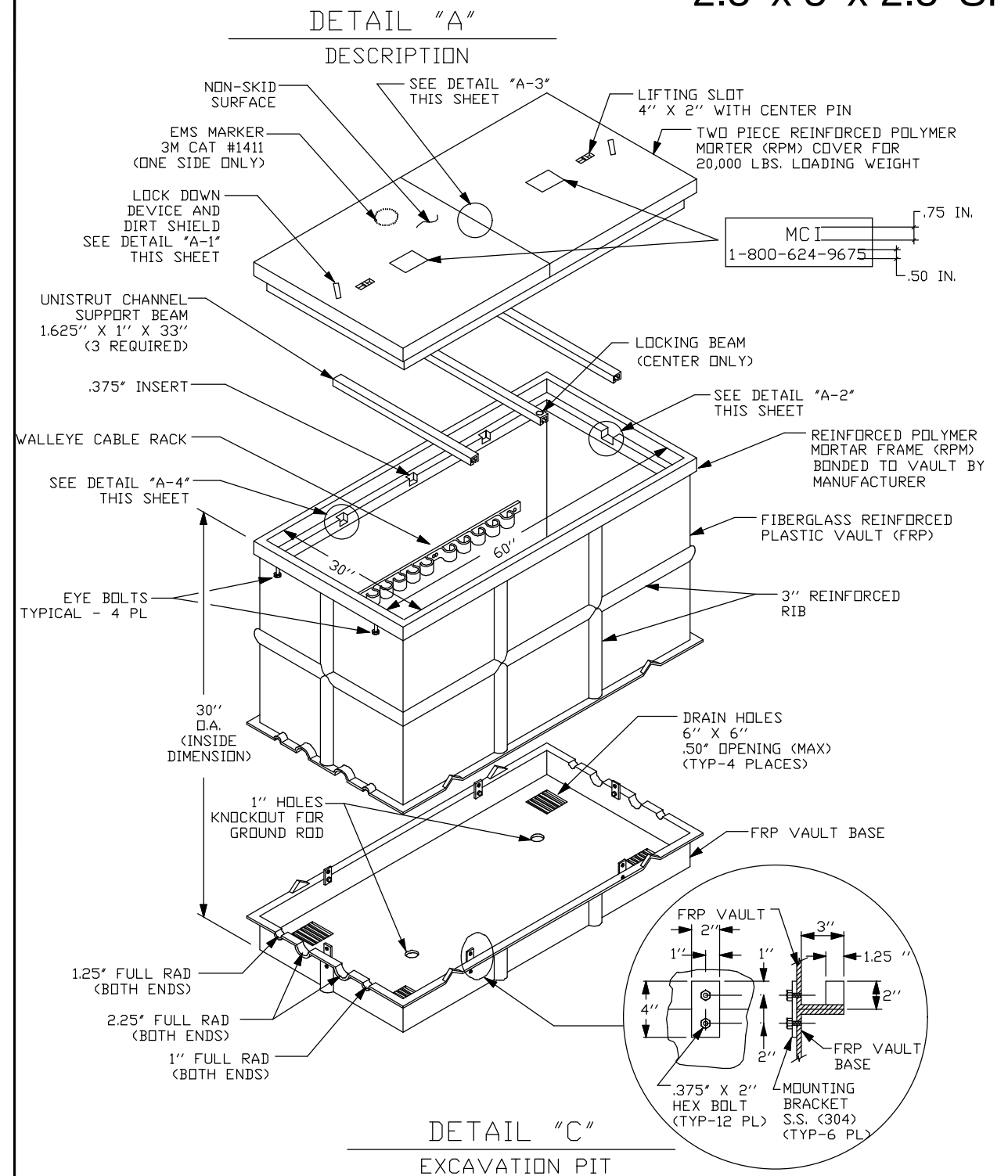
[illegible]

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

SHEET	11	OF	54
-------	----	----	----

FILE:1706ANBB.008-0111AC.BEL.DWG

2.5' x 5' x 2.5' SPLIT HANDHOLE DETAILS



- NOTES:**
1. VOID IN EXCAVATED AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
 2. BOTTOM OF EXCAVATED PIT TO BE BACKFILLED WITH 12" OF CRUSHED STONE (.75" GRADE).
 3. SHORING WILL BE REQUIRED.
 4. ALL HANDHOLES SHALL BE PLACED BELOW EXISTING GRADE.
 5. THIS HANDHOLE IS OF FIBERGLASS MATERIAL, APPROXIMATELY POUNDS IN WEIGHT. THE LIDS ARE POLYMER CONCRETE MATERIAL, EACH APPROXIMATELY POUNDS.

NOTE:
LINEAR DISTANCE BETWEEN
LAG BOLT ANCHORS MUST
BE 25".

PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

[illegible]

MCImetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGAR LAND, TX 77478
2.5' x 5' x 2.5' SPLIT HAND-POLE DETAILS

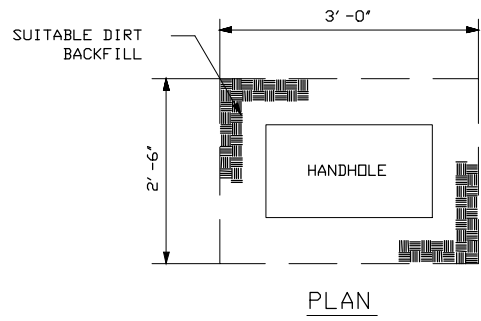
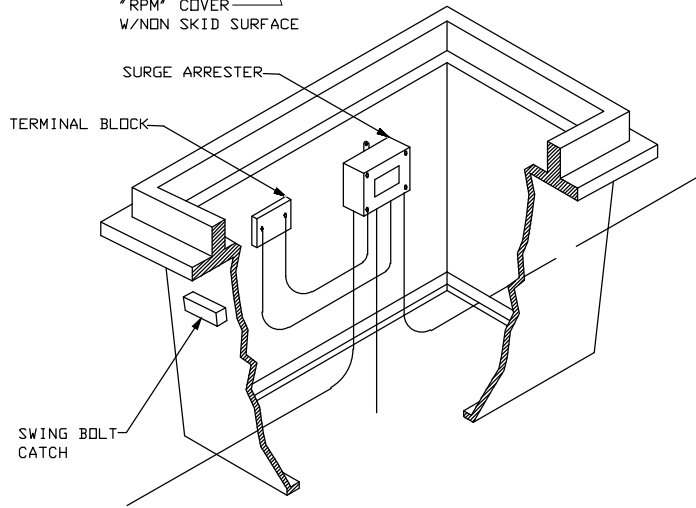
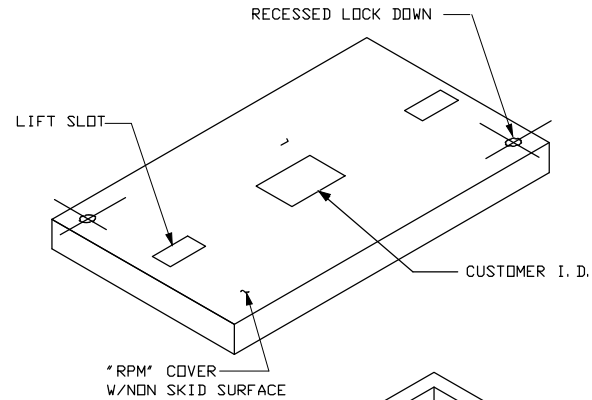
[illegible]

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

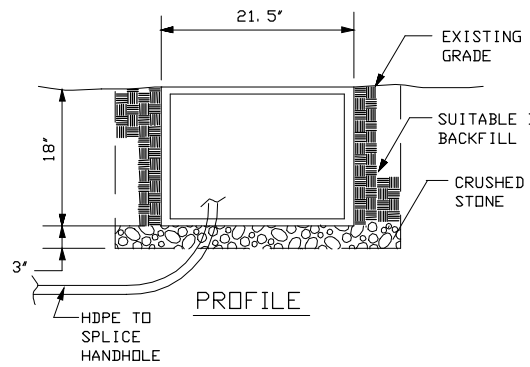
SCALE	
HORIZONTAL:	NTS
VERTICAL:	NTS
MP _____	TO MP _____
SHEET 12	OF 54

FILE:1706ANBB.008-0112AC.BEL.DWG

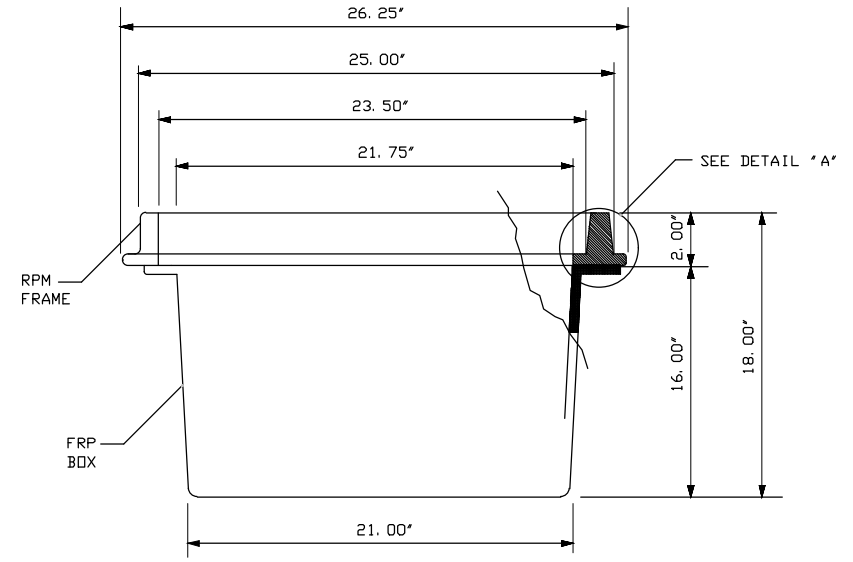
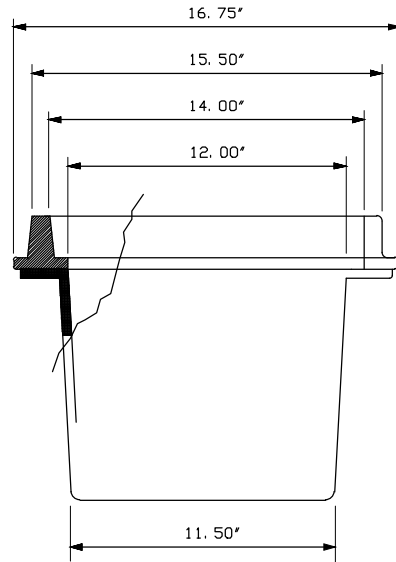
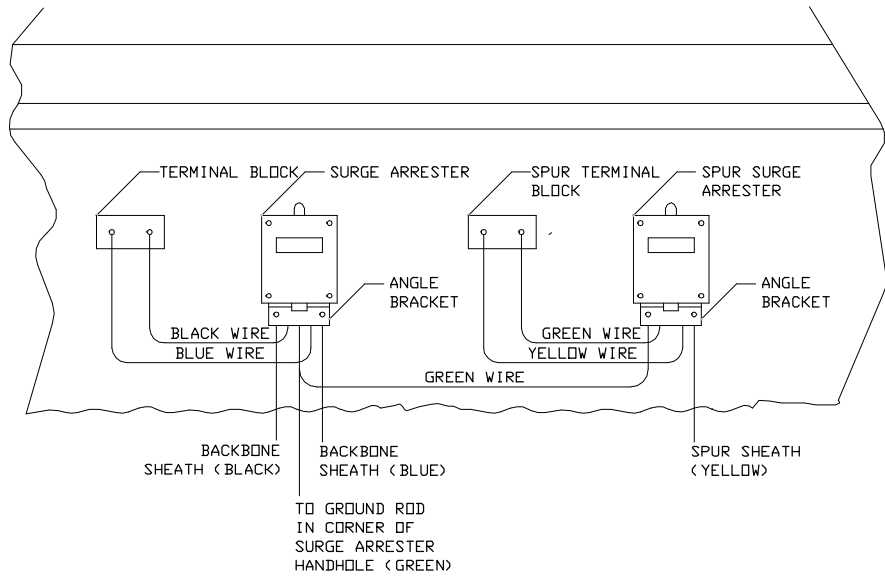
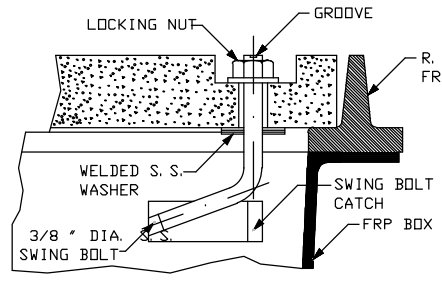
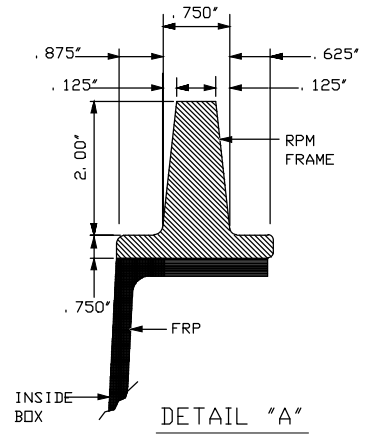
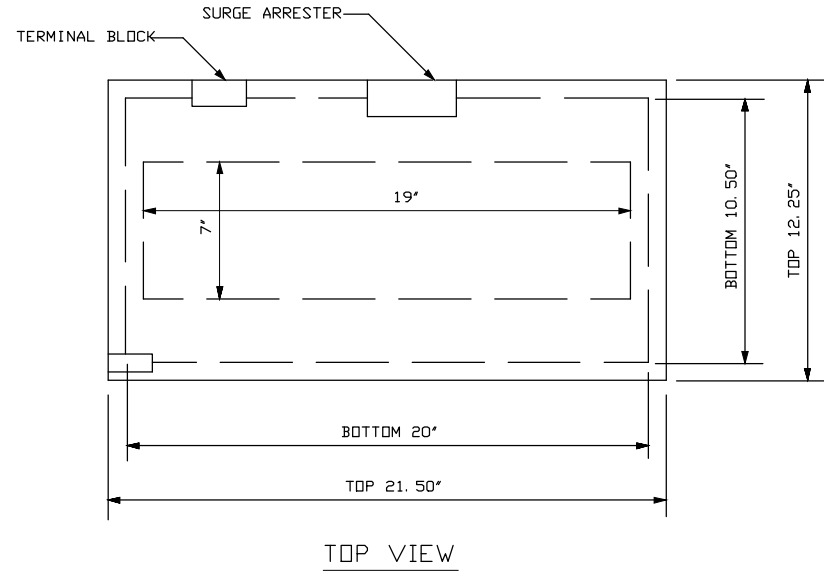
SURGE ARRESTER HANDHOLE DETAIL



TYPICAL SURGE ARRESTER HANDHOLE



1. VOID IN AREAS TO BE BACKFILLED WITH SELECT MATERIAL.
2. SURGE ARRESTER HANDHOLE TO BE PLACED ON 3' OF CRUSHED STONE (3/4" GRADE).
3. ALL SURGE ARRESTER HANDHOLES SHALL BE SURFACE MOUNTED.
4. SURGE ARRESTER, TERMINAL BLOCK, AND WIRE HARNESS WILL BE MOUNTED BY THE FACTORY.

PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO.	QUANTITY
-------------------	----------

[illegible]

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

**KINGSPONT TO ELLIS CREEK
SUGAR LAND, TX 77478**

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIALS
-	-	-

EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATION SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSES WITHOUT SPECIFIC WRITTEN PERMISSION.

SCAIF

HORIZONTAL: NTS

VERTICAL: NTS

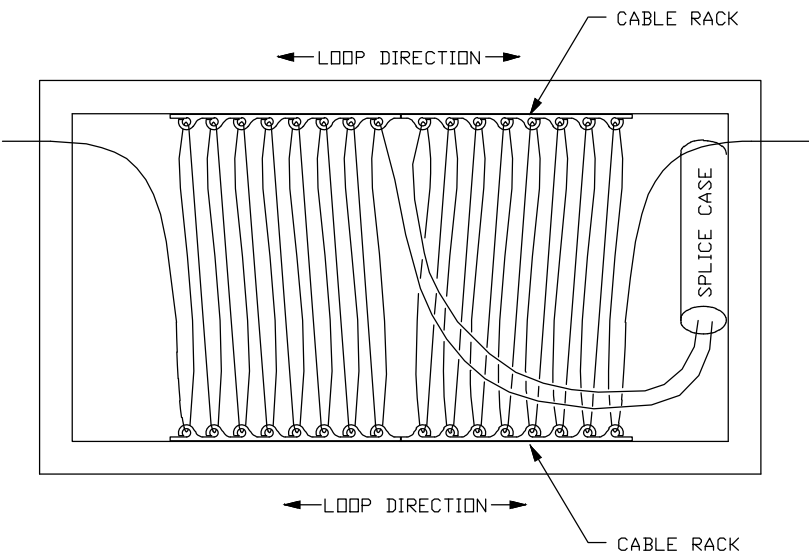
MP TO MP

SHEET 13 OF 54

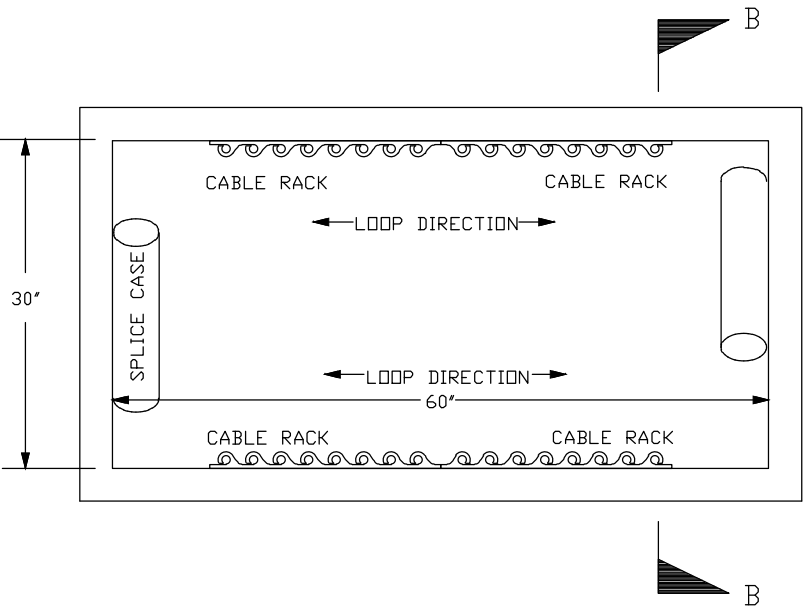
FILE:1706ANBB.008-0113AC.BEL.DWG

HANDHOLE SLACK STORAGE DETAILS

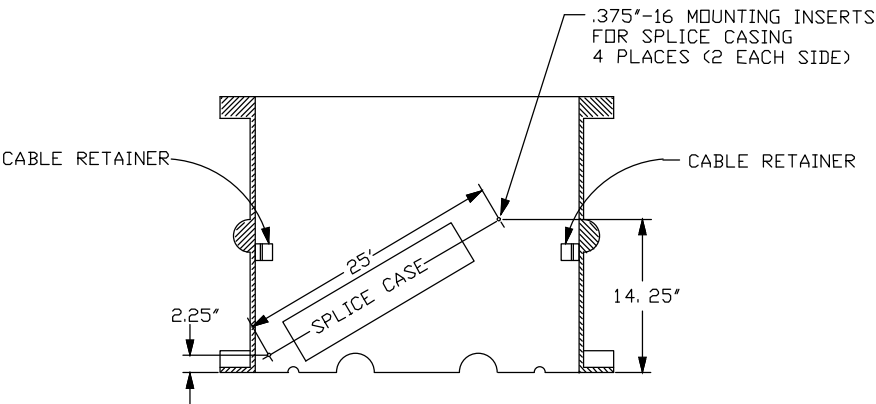
DETAIL "A"
CABLE SLACK ARRANGEMENT



DETAIL "B"
HANDHOLE LAYOUT



SECTION B-B



PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO. QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK
SUGAR LAND, TX 77478

HANDHOLE SLACK STORAGE DETAILS

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

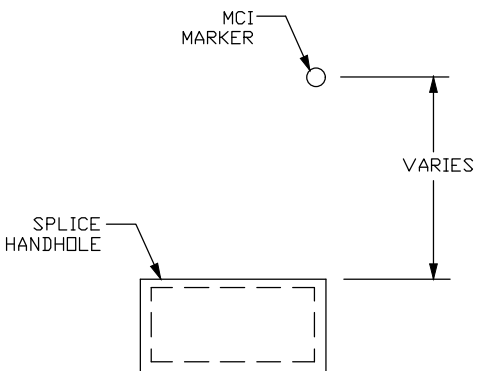
SHEET 14 OF 54

FILE:1706ANBB.008-0114AC.BEL.DWG

CABLE GROUNDING INSTALLATION DETAILS
(FOR CONTRACTOR INSTALLATION)

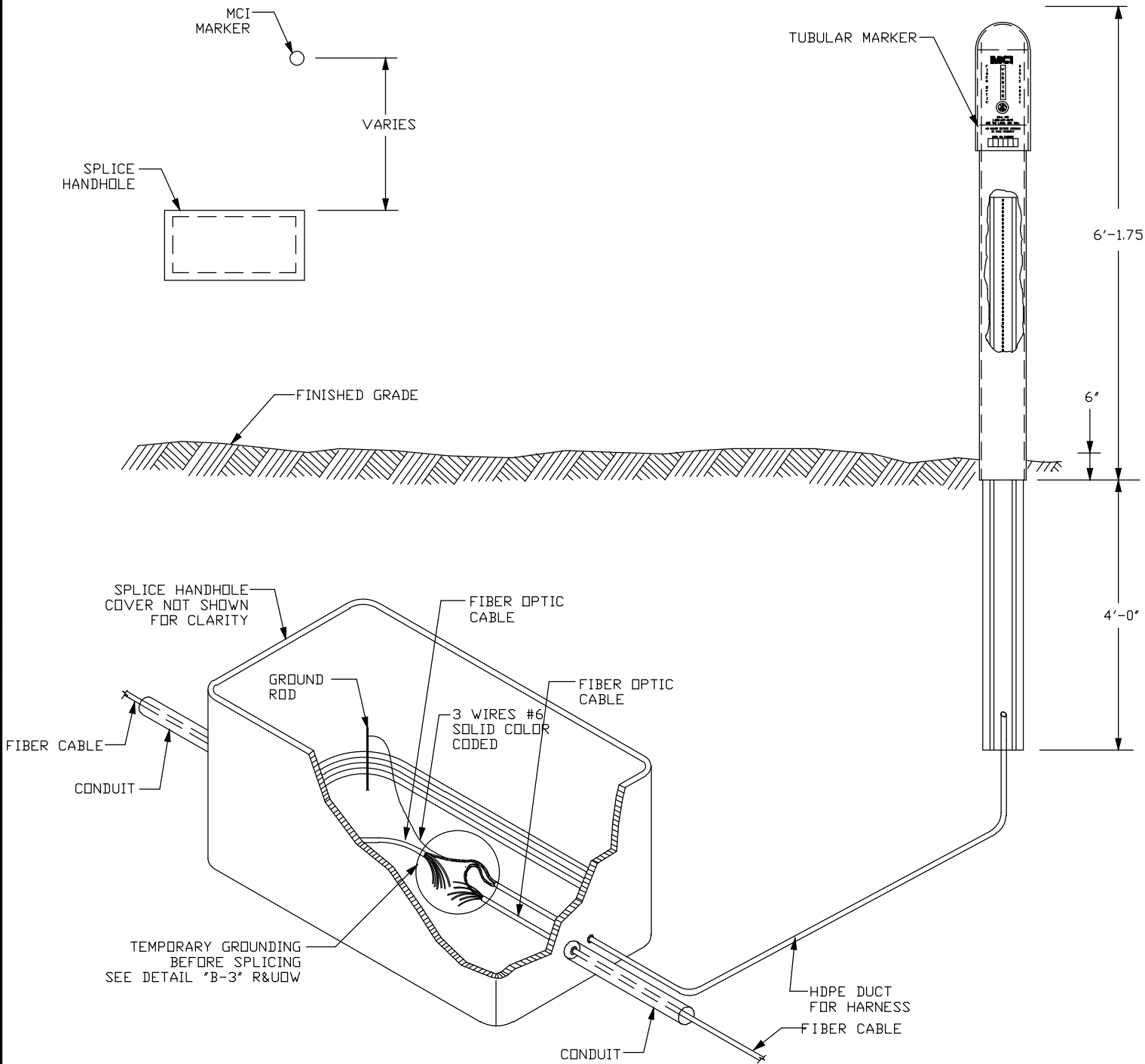
DETAIL "A"

PLAN VIEW



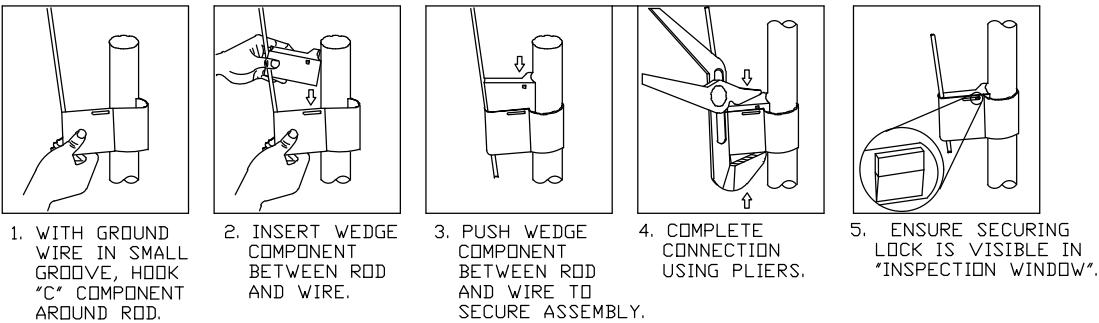
DETAIL "B"

INSTALLATION DETAIL



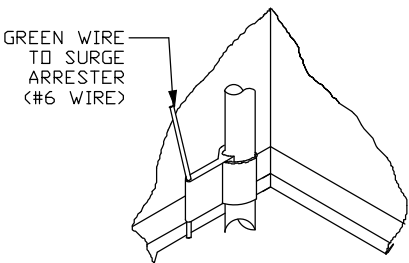
DETAIL "B-1"

C-LOK GROUND ROD
INSTALLATION METHOD



DETAIL "B-2"

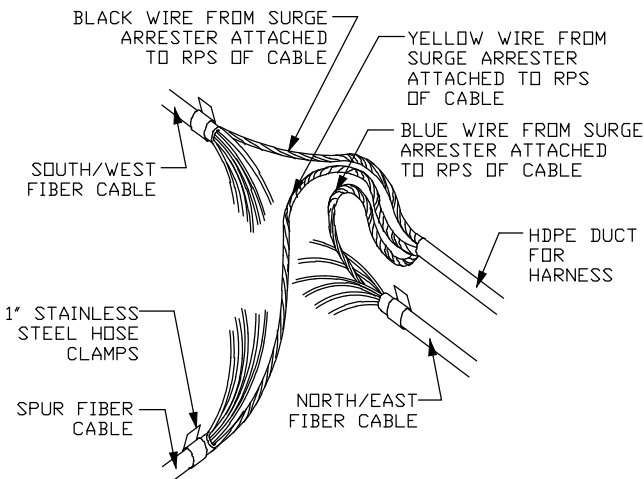
C-LOK CONNECTOR



NOTE:
SEE DETAIL "B-1" THIS
SHEET FOR INSTALLATION
METHOD.

DETAIL "B-3"

TEMPORARY GROUNDING
(INCLUDING SPUR CABLE)



NOTES:

- OSP CONTRACTOR SHALL INSTALL THE FOLLOWING MCI FURNISHED MATERIALS:
 - * 6' TUBULAR MARKER WITH HARDWARE (1)
 - * SPLICE HANDHOLE
 - * GROUND ROD AND FIGURE 8 CONNECTOR
 - * PULL WIRE HARNESS FROM HANDHOLE TO MARKER
- THE CONTRACTOR WILL FURNISH AND INSTALL THE HDPE, LENGTH AS REQUIRED PER THE DRAWINGS SUPPLIED.
- ALL MCI AND CONTRACTOR FURNISHED MATERIALS SHALL BE IN PLACE PRIOR TO PLACEMENT OF THE FIBER OPTIC CABLE, AT WHICH TIME THE TEMPORARY GROUND CONNECTION WILL BE MADE IN ACCORDANCE WITH DETAIL "A".
- AFTER CONNECTION OF THE TEMPORARY GROUND, THE CONTRACTOR SHALL SEAL THE ENDS OF THE FIBER OPTIC CABLE TO PREVENT THE ENTRY OF MOISTURE.
- AFTER INSTALLATION OF THE FIBER OPTIC CABLE AND WIRING HARNESS BY THE CONTRACTOR, THE CONTRACTOR SHALL SEAL ALL DUCT LINE OPENINGS WITH MCI APPROVED MATERIAL TO PREVENT THE ENTRY OF MOISTURE.
- MARKER AND HANDHOLE SHOULD BE PLACED IN LINE WITH THE NORTHERN CORNER OF THE SPLICE HANDHOLE FOR NORTH/SOUTH ROUTES, THE EASTERN CORNER OF THE SPLICE HANDHOLE FOR EAST/WEST ROUTES.

PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO. QUANTITY

ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGAR LAND, TX 77478
CABLE GROUNDING INSTALLATION DETAILS

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

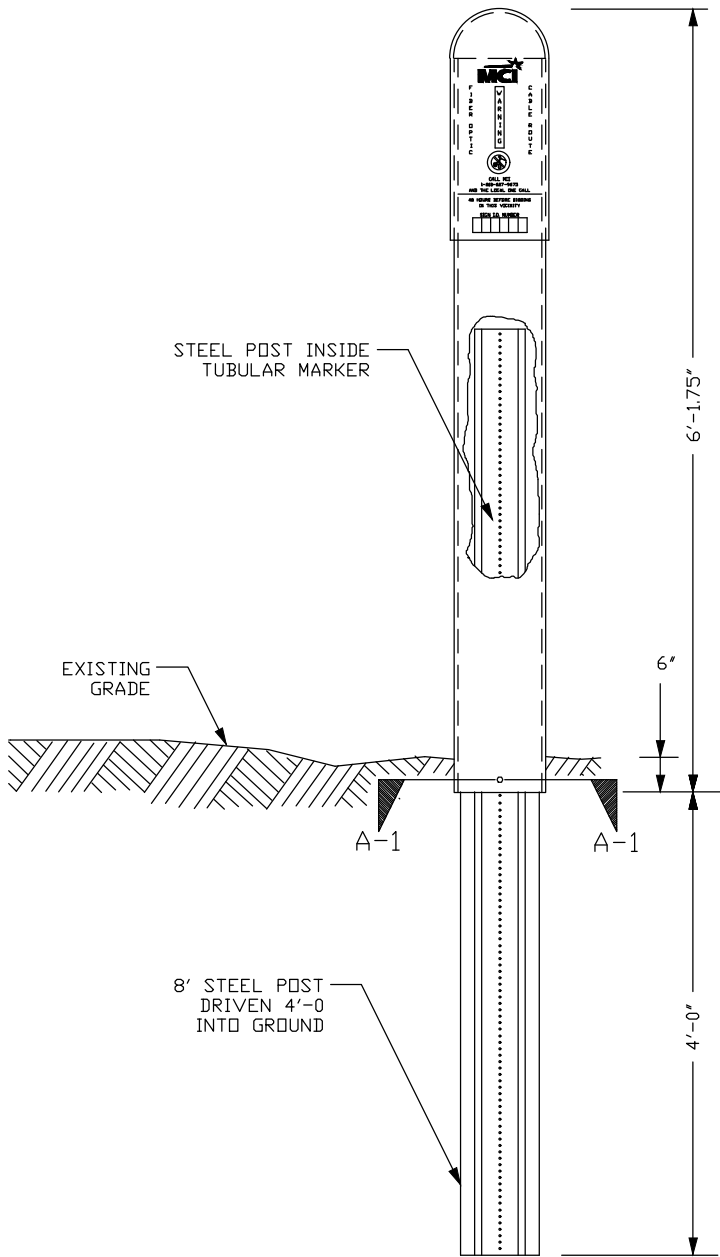
MP TO MP

SHEET 15 OF 54

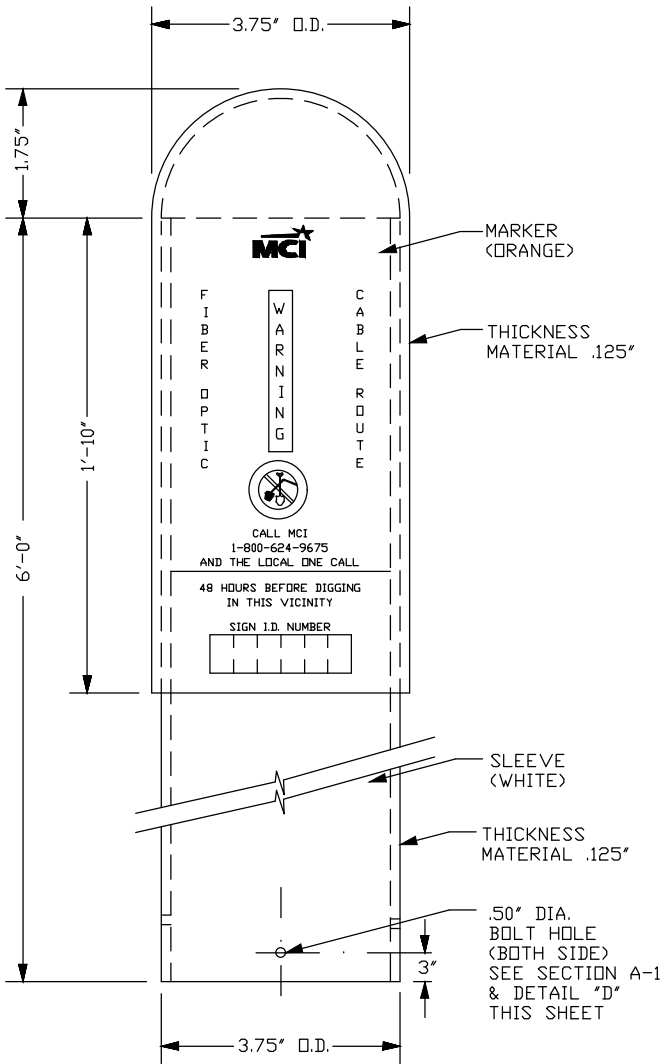
FILE: 1706ANBB. 008-0115AC. BEL. DWG

TUBULAR MARKER DETAILS

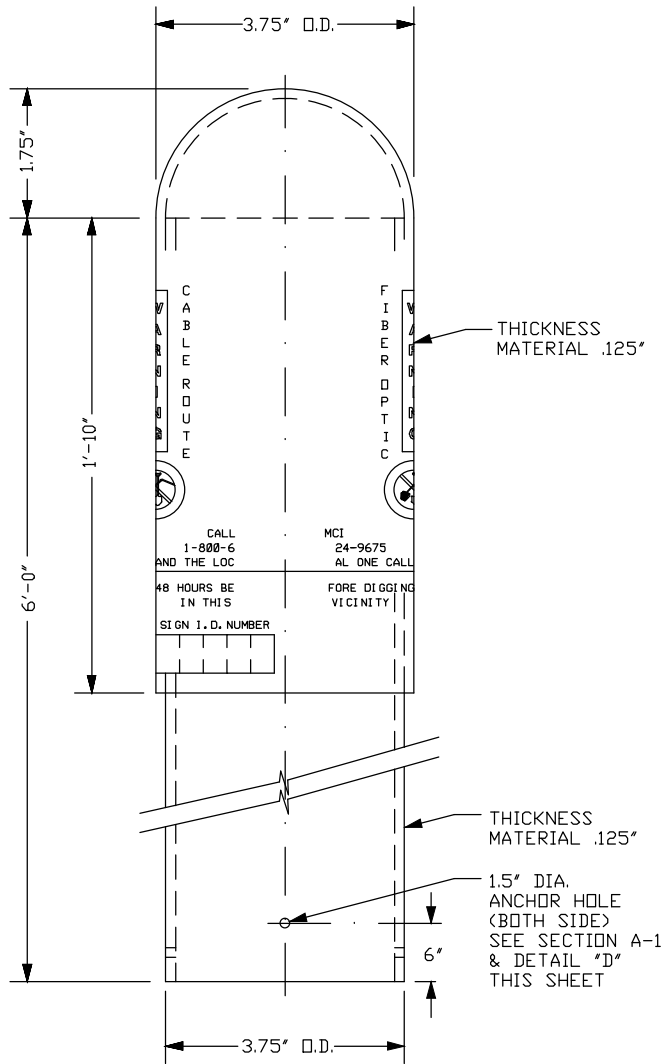
DETAIL "A"
INSTALLATION VIEW



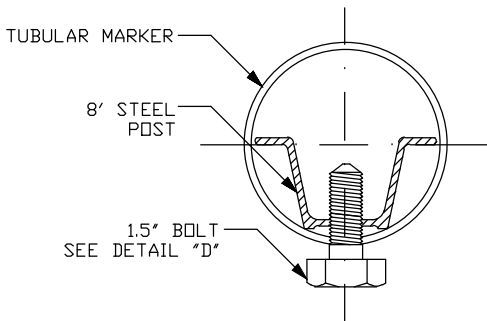
DETAIL "B"
FRONT VIEW



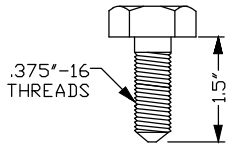
DETAIL "C"
SIDE VIEW



SECTION A-1
TUBULAR MARKER



DETAIL "D"
1.5" BOLT



PROJECT: 1706ANBB. 008

KINGSPPOINT TO ELLIS CREEK

SUGAR LAND, TX 77478

CLARIFICATION NO. QUANTITY

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK
SUGAR LAND, TX 77478
TUBULAR MARKER DETAILS

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: NTS

VERTICAL: NTS

MP TO MP

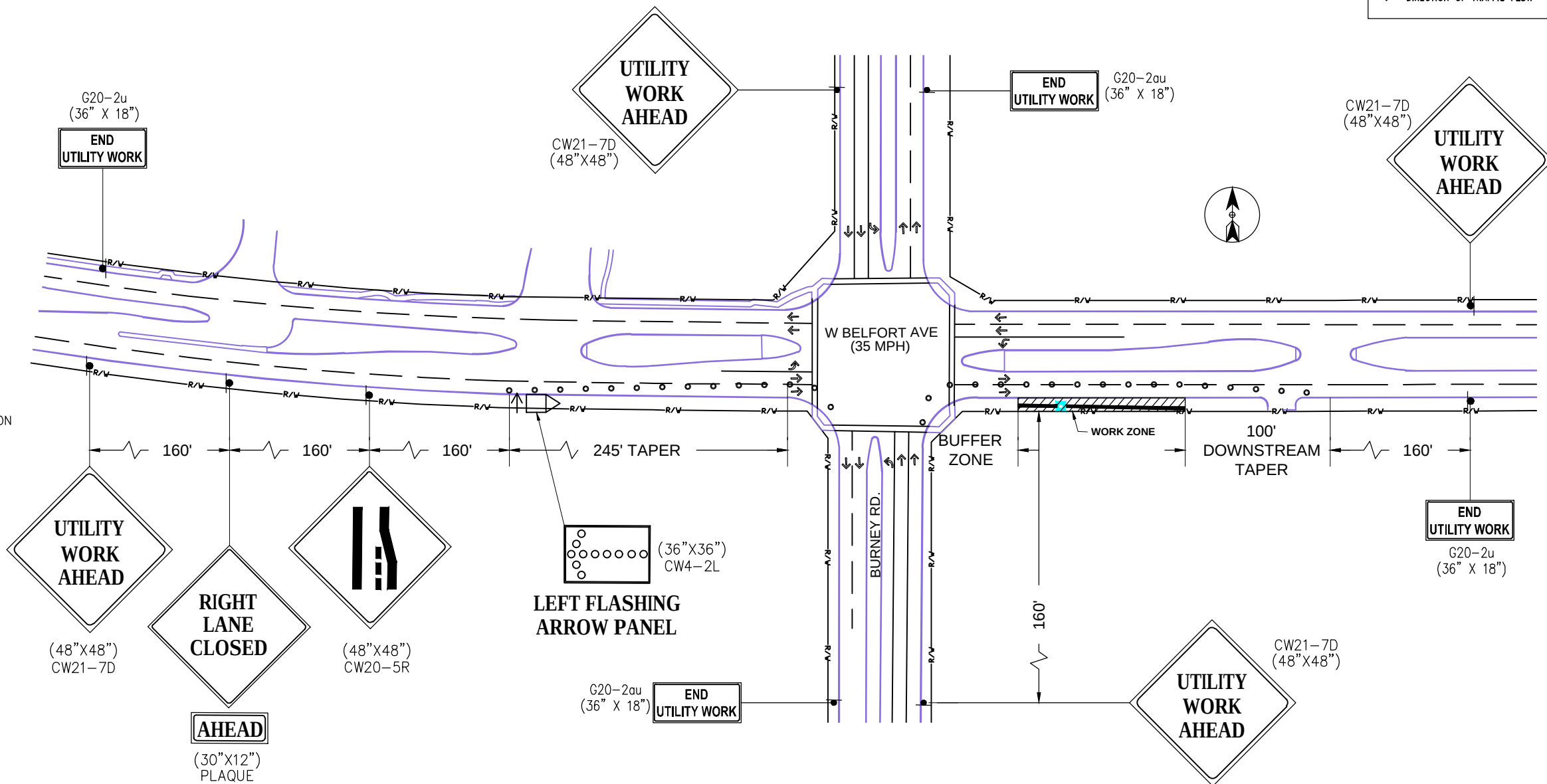
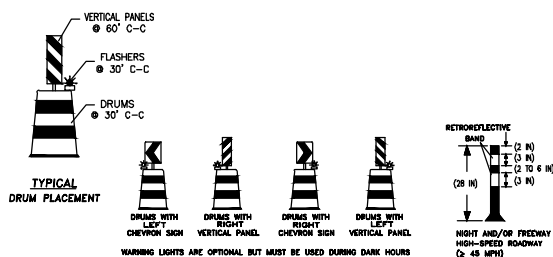
SHEET 16 OF 54

FILE: 1706ANBB. 008-0116AC. BEL. DWG

1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUCD – LATEST EDITION WITH REVISIONS) DURING CONSTRUCTION.
2. NO LANES SHALL BE BLOCKED DURING CONSTRUCTION.
3. CONTRACTOR SHALL COVER THE EXCAVATION WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS AND ALLOW NORMAL TRAFFIC FLOW. IF COVERING IS NOT FEASIBLE, USE TRANEXE FR 336 EFX 36" DELINEATOR OR APPROVED EQUIV WITH SHEETING AND BASE EXPOSED TO PAVEMENT NEXT TO EXCAVATION DURING NON-WORKING HOURS.
4. APPROVED COPIES OF "TRAFFIC CONTROL PLANS" SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
5. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF TRAFFIC CONTROL PLAN DURING THE CONSTRUCTION TIME WHAT IS OUTLINED IN THE CONTRACTOR'S SPECIFICATIONS (SPECS) IS RESPONSIBLE TO PREPARE AND SUBMIT ALTERNATE PLANS TO TRAFFIC SECTION OF HCPID FOR APPROVAL THEN WORKING DAYS PRIOR TO IMPLEMENTATION.
 - * THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME APART OF THE CONTRACTOR DRAWINGS.
6. THE CONTRACTOR SHALL CONTACT HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT, SIGNATURE DIVISION, AT 713-881-3210 FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

- A - PLASTIC DRUMS ON MERGING TAPER AT 30' C-C WITH CHEVRON SIGNS
 - a) AT 60' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- B - PLASTIC DRUMS ON DOWNSTREAM TAPER AT 35' C-C.
- C - PLASTIC DRUMS ON RADII AT 5' C-C.
- D - PLASTIC DRUMS ON TANGENT @ 35' C-C WITH VERTICAL PANEL AT 70' C-C AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- E - PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE AT 20' C-C WITH VERTICAL PANEL AT 40' C-C AND TYPE "A" WARNING LIGHT (FOR OVERNIGHT CLOSURE).
- F - CONCRETE TRAFFIC BARRIER (C.T.B) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (L.P.C.T.B.) WITH REFLECTORS AT 10' C-C, IF PAVEMENT DROP IS MORE THAN TWELVE INCHES (12") OR
- G - PLASTIC DRUM WITH GUARD RAIL MOUNTED.
- H - 28" TUBULAR MARKERS AT 30' C-C.
 - a) 4-LANE TO 2-LANE UNDIVIDED ROADWAY SECTIONS AT 20' C-C.
 - b) 4-LANE DIVIDED ROADWAY TO ONE SIDE TWO-WAY ROAD AT 20' C-C.
 - c) LEFT LANE, RIGHT LANE STORAGE BAYS AT 15' C-C.

SPACINGS SHOWN ON TRAFFIC CONTROL
PLANS SHALL SUPERSEDE THE ABOVE SPACINGS.
SPACINGS MAY BE ADJUSTED TO MISS
DRIVEWAYS AND/OR MEDIAN OPENINGS.



NOTE:
SEE SHEET 21 OF 54 FOR
TRAFFIC CONTROL PLAN SITE LOCATION

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

SUGAR LAND, TX 77478

[illegible]

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE

**KINGSPPOINT TO ELLIS CREEK
SUCAB I AND TV 77478**

TRAFFIC CONTROL PLAN

REVISIONS

[illegible]

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

SHEET	16.1	OF	54
-------	------	----	----

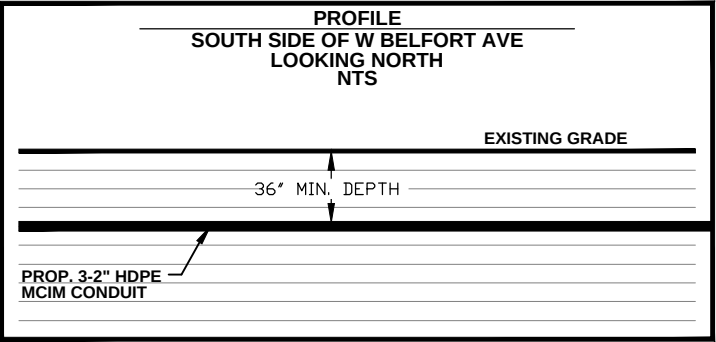
FILE1706ANBB.008-0116.1AC.BEL.DWC

CLARIFICATION SUMMARY SHEET

PROJECT SPECIFIC

PROJECT CLARIFICATION SUMMARY		
DESCRIPTION	QUANTITY	UNIT
PLACE (30" X 60" X 30") HANDHOLE	40	EA
PLACE 1-2" HDPE (SDR11) CONDUIT	2,133	LF
PLACE 2-2" HDPE (SDR11) CONDUIT	31,608	LF
PLACE 3-2" HDPE (SDR11) CONDUIT	481	LF
PULL 1-864F CABLE (INCLUDES 4,160' IN SLACK COILS)	35,949	LF
PULL 1-288F CABLE (INCLUDES 4,130' IN SLACK COILS)	35,919	LF
PULL 1-72F CABLE (INCLUDES 400' IN SLACK COILS)	2,533	LF
ATTACH 1-2" STAND OFF RISER	4	EA
PLACE 1-6M AERIAL STRAND (INCLUDES ALL HARDWARE, LOOP EQUIPMENT & GUYS)	3,427	LF
LASH 1-288F & 1-864F CABLES (INCLUDES IN 500' SLACK LOOPS)	3,927	LF
PLACE (BURIED CABLE) MARKER	40	EA

[illegible]



PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	-
PLACE MARKER	-
PROP. 4" HDPE	-
PROP. 3-2" HDPE	457'
PROP. 2-2" HDPE	-
PROP. 1-2" HDPE	-
PULL 1-72F CABLE	-
PULL 1-288F CABLE	557'
PULL 1-864F CABLE	557'
1-2" STAND OFF RISER	-
DOWN GUY & ANCHOR	-
PLACE 6M STRAND	-
LASH 1-288F/1-864F CABLE	-

MCImetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478
OUTSIDE PLANT - PLAN

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: 1"=100'

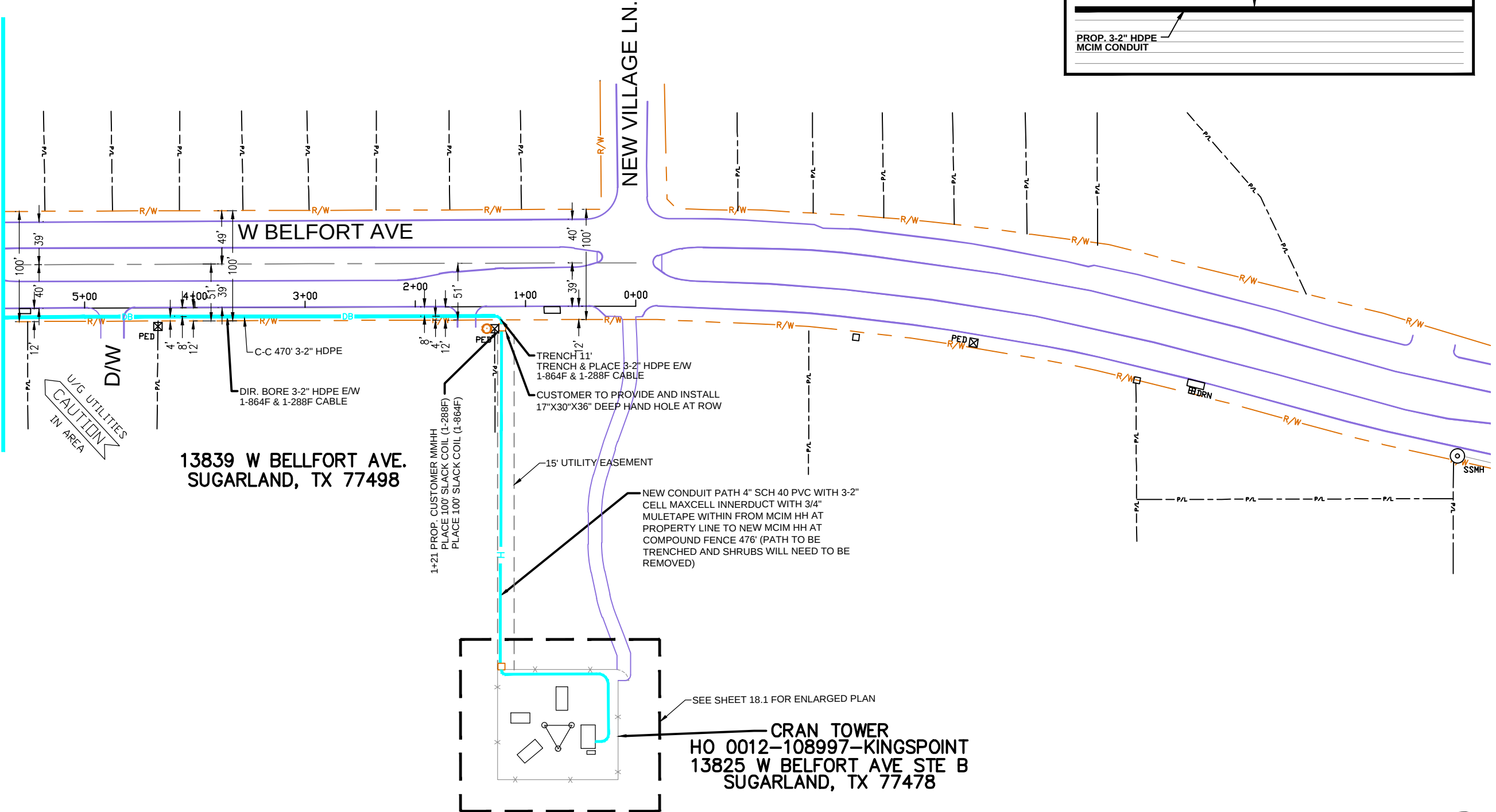
VERTICAL: 1"=100'

MP _____ TO MP _____

SHEET 18 OF 54

FILE:1706ANBB.008-0118AC.BEL.DWG

SEE SHEET 19 TO MATCH SURVEY STA. 5+74



**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!



Know what's below.
Call before you dig.

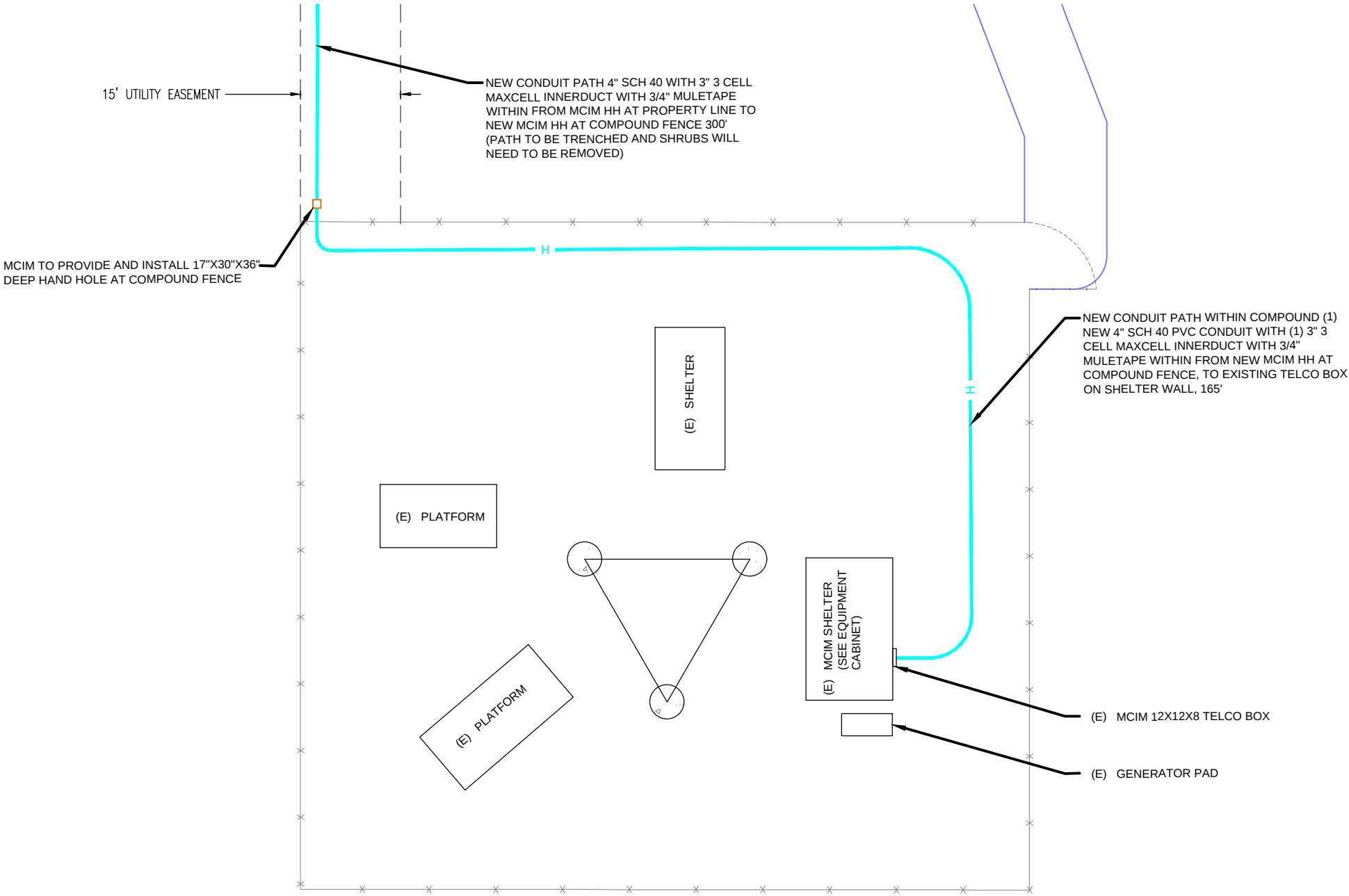


CALL BEFORE YOU DIG

1-800-245-4545

48 HOURS NOTICE REQUIRED

SUGARLAND, TX
FORT BEND, COUNTY



CRAN TOWER
HO 0012-108997-KINGSPPOINT
13825 W BELFORT AVE STE B
SUGARLAND, TX 77478

PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	-
PLACE MARKER	-
PROP. 4" HDPE	-
PROP. 3-2" HDPE	-
PROP. 2-2" HDPE	-
PROP. 1-2" HDPE	-
PULL 1-72F CABLE	-
PULL 1-288F CABLE	-
PULL 1-864F CABLE	-
1-2" STAND OFF RISER	-
DOWN GUY & ANCHOR	-
PLACE 6M STRAND	-
LASH 1-288F/1-864F CABLE	-

MCImetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478
OUTSIDE PLANT - PLAN

DATE: 09/11/2017		
ENGINEER: GXT		
DRAWN BY: GXT		
REVISIONS		
DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE	
HORIZONTAL:	1"=100'
VERTICAL:	1"=100'
MP	TO MP
SHEET 181	OF 54

FILE:1706ANBB.008-0118.1AC.BEL.DWG

**** NOTE****
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION. NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROFILE
SOUTH SIDE OF W BELFORT AVE
LOOKING NORTH

SCALE:
HOR: 1" = 100'
VER: 1" = 10'

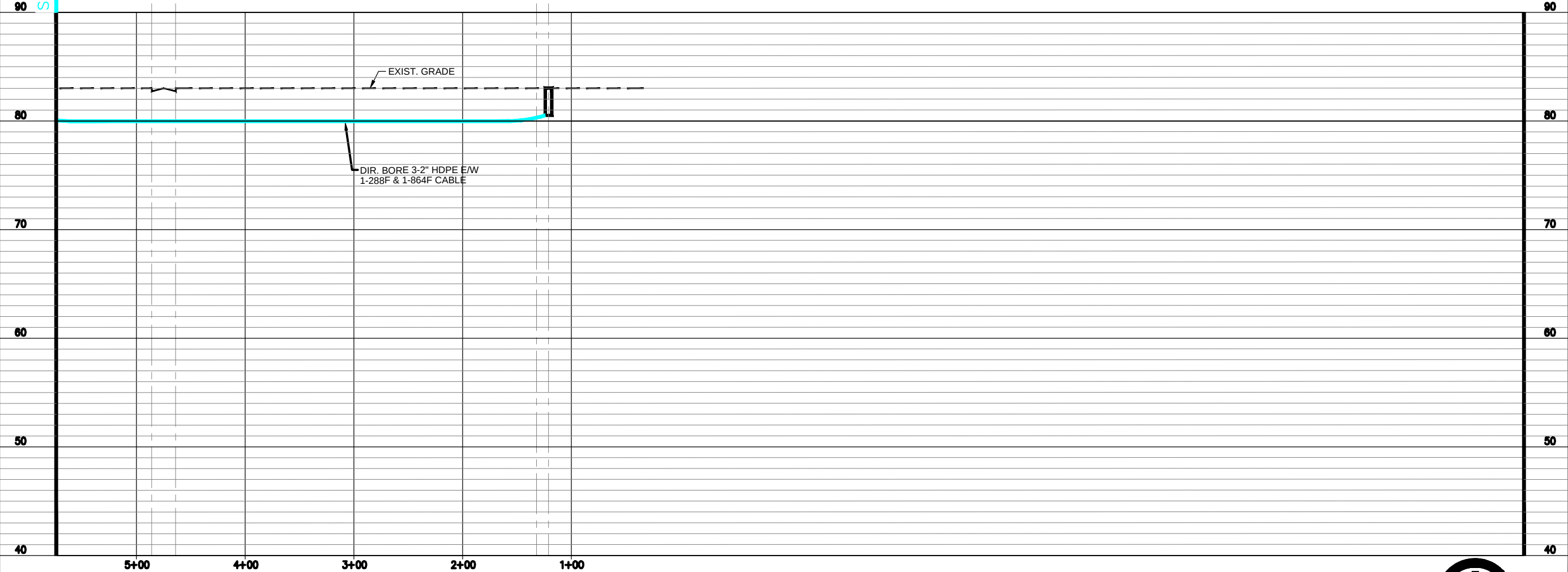
END TRENCH
BEGIN DIR. BORE
EXIST. EC HH
STA 1+21
BEGIN TRENCH

EDGE OF DRIVEWAY
EDGE OF DRIVEWAY

EXIST. GRADE

DIR. BORE 3-2" HDPE E/W
1-288F & 1-864F CABLE

SEE SHEET 19.1 TO MATCH SURVEY STA. 5+74



**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	-
PLACE MARKER	
PROP. 4" HDPE	
PROP. 3-2" HDPE	
PROP. 2-2" HDPE	
PROP. 1-2" HDPE	
PULL 1-72F CABLE	
PULL 1-288F CABLE	
PULL 1-864F CABLE	
1-2" STAND OFF RISER	
DOWN GUY & ANCHOR	
PLACE 6M STRAND	
LASH 1-288F/1-864F CABLE	

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478

OUTSIDE PLANT - PROFILE

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: AS NOTED

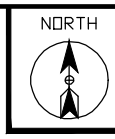
VERTICAL: AS NOTED

MP _____ TO MP _____

SHEET 18.2 OF 54

FILE:1706ANBB.008-0118.2AC.BEL.DWG

NORTH 	
--	--



KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	2
PLACE MARKER	2
PROP. 4" HDPE	-
PROP. 3-2" HDPE	24'
PROP. 2-2" HDPE	1,326'
PROP. 1-2" HDPE	-
PULL 1-72F CABLE	-
PULL 1-288F CABLE	1,550'
PULL 1-864F CABLE	1,550'
1-2" STAND OFF RISER	-
DOWN GUY & ANCHOR	-
PLACE 6M STRAND	-
LASH 1-288F/1-864F CABLE	-

MCImetro
ACCESS TRANSMISSION SERVICES CORP.
OUTSIDE PLANT CONSTRUCTION
TITLE: FIBER OPTIC CABLE ROUTE
KINGSPOINT TO ELLIS CREEK
SUGARLAND, TX 77478
OUTSIDE PLANT - PLAN

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

[illegible]

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

SCALE

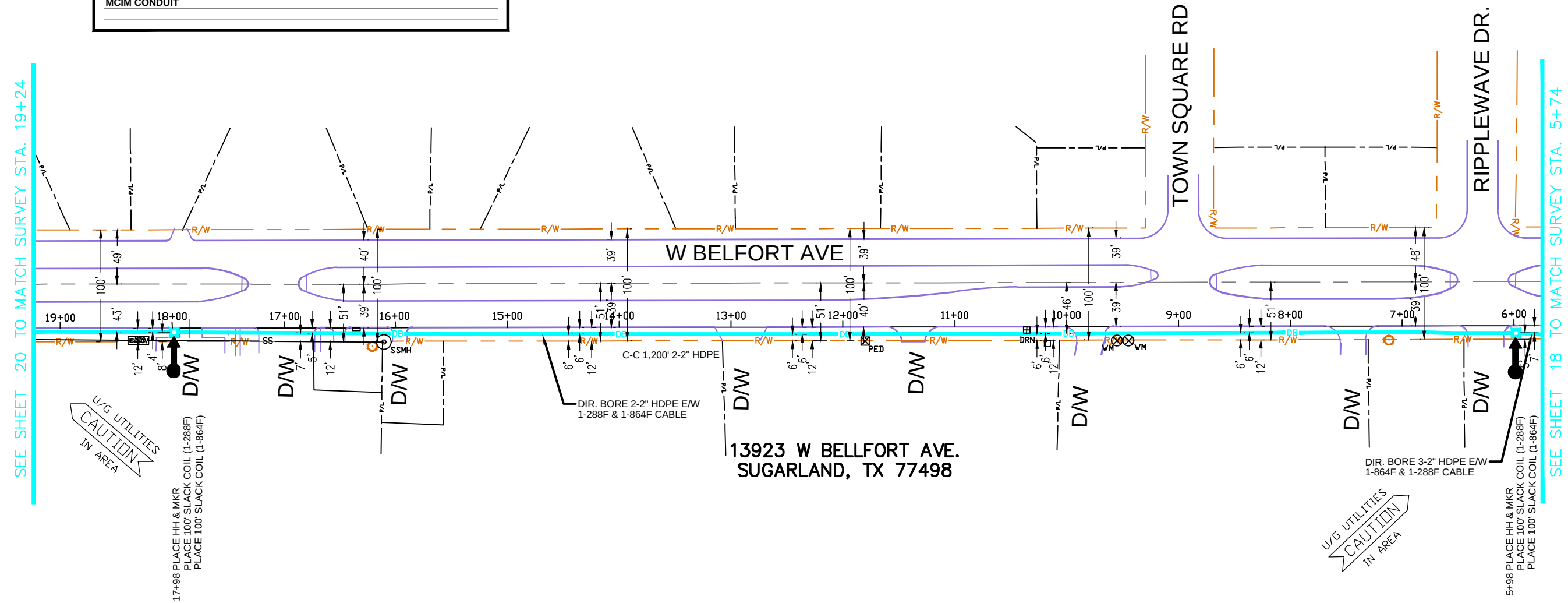
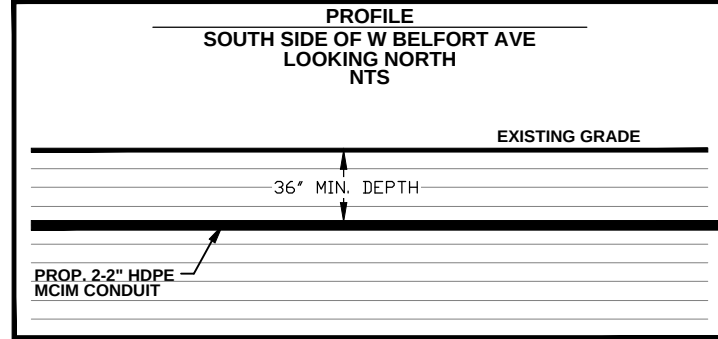
HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

MP _____ TO MP _____

SHEET 19 OF 54

FILE:1706ANBB.008-0119AC.BEL.DWG



SEE SHEET 20 TO MATCH SURVEY STA 19+24

SEE SHEET 18 TO MATCH SURVEY STA. 5+74

**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

****** NOTE ******
ALL UTILITIES MUST BE VERIFIED BY POTHOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY



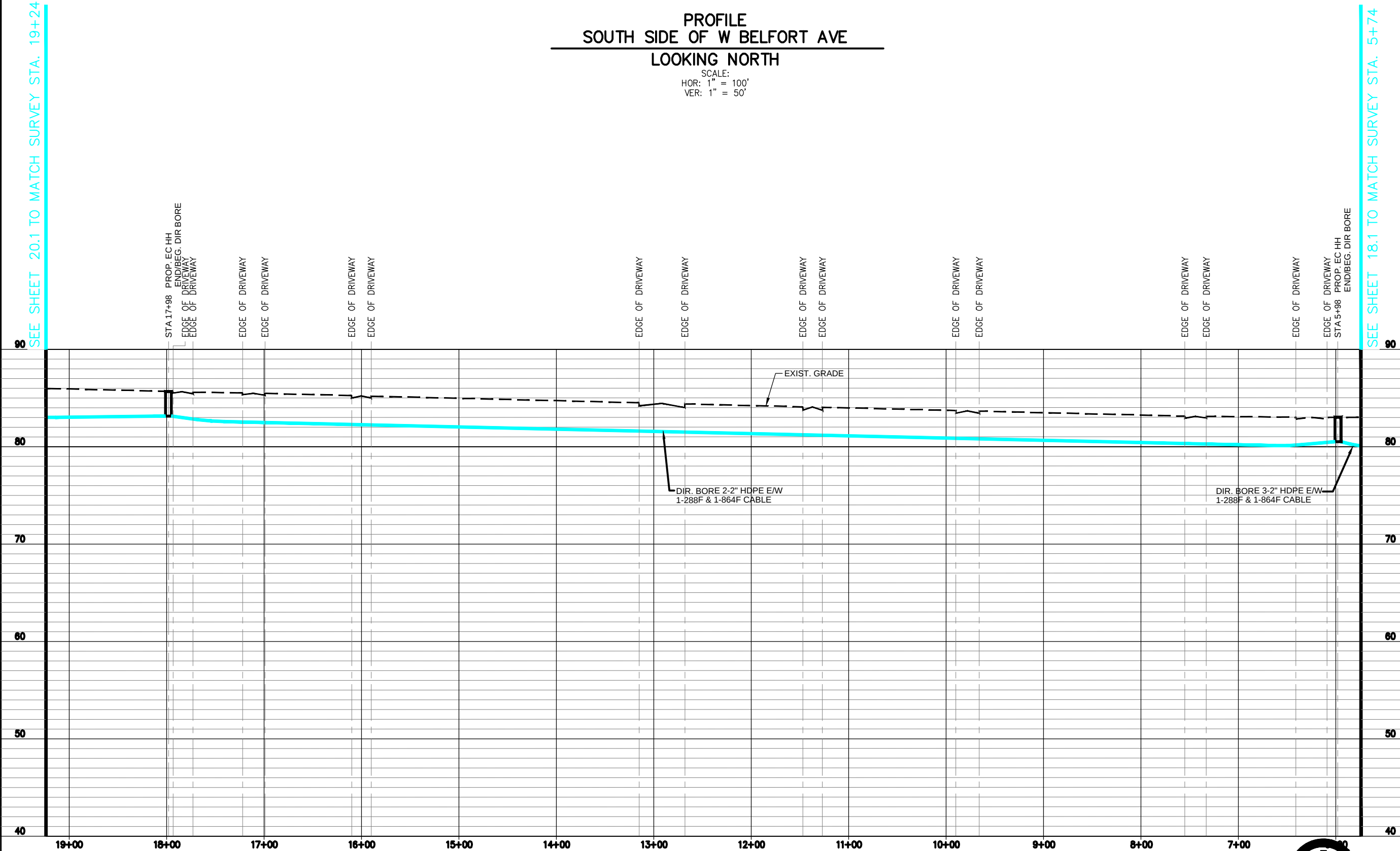
CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

FILE:1706ANBB.008-0119AC.BEL.DWG

SUGARLAND, TX
FORT BEND, COUNTY

PROFILE
SOUTH SIDE OF W BELFORT AVE
LOOKING NORTH

SCALE:
HOR: 1" = 100'
VER: 1" = 50'



**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	-
PLACE MARKER	
PROP. 4" HDPE	
PROP. 3-2" HDPE	
PROP. 2-2" HDPE	
PROP. 1-2" HDPE	
PULL 1-72F CABLE	
PULL 1-288F CABLE	
PULL 1-864F CABLE	
1-2" STAND OFF RISER	
DOWN GUY & ANCHOR	
PLACE 6M STRAND	
LASH 1-288F/1-864F CABLE	

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478

OUTSIDE PLANT - PROFILE

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: AS NOTED

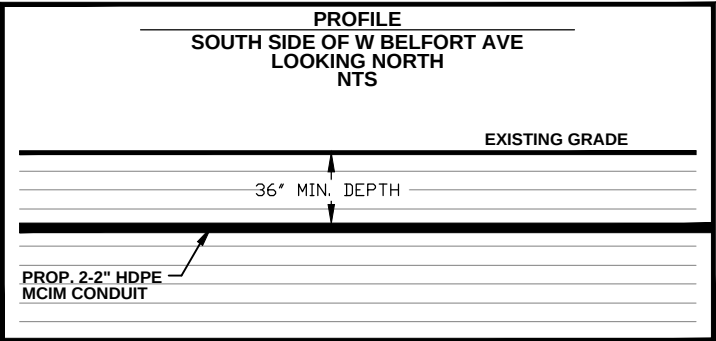
VERTICAL: AS NOTED

MP _____ TO MP _____

SHEET 19.1 OF 54

FILE:1706ANBB.008-0119.1AC.BEL.DWG

SUGARLAND, TX
FORT BEND, COUNTY



PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 4" HDPE	-
PROP. 3-2" HDPE	-
PROP. 2-2" HDPE	1,350'
PROP. 1-2" HDPE	-
PULL 1-72F CABLE	-
PULL 1-288F CABLE	1,450'
PULL 1-864F CABLE	1,450'
1-2" STAND OFF RISER	-
DOWN GUY & ANCHOR	-
PLACE 6M STRAND	-
LASH 1-288F/1-864F CABLE	-

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478

OUTSIDE PLANT - PLAN

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

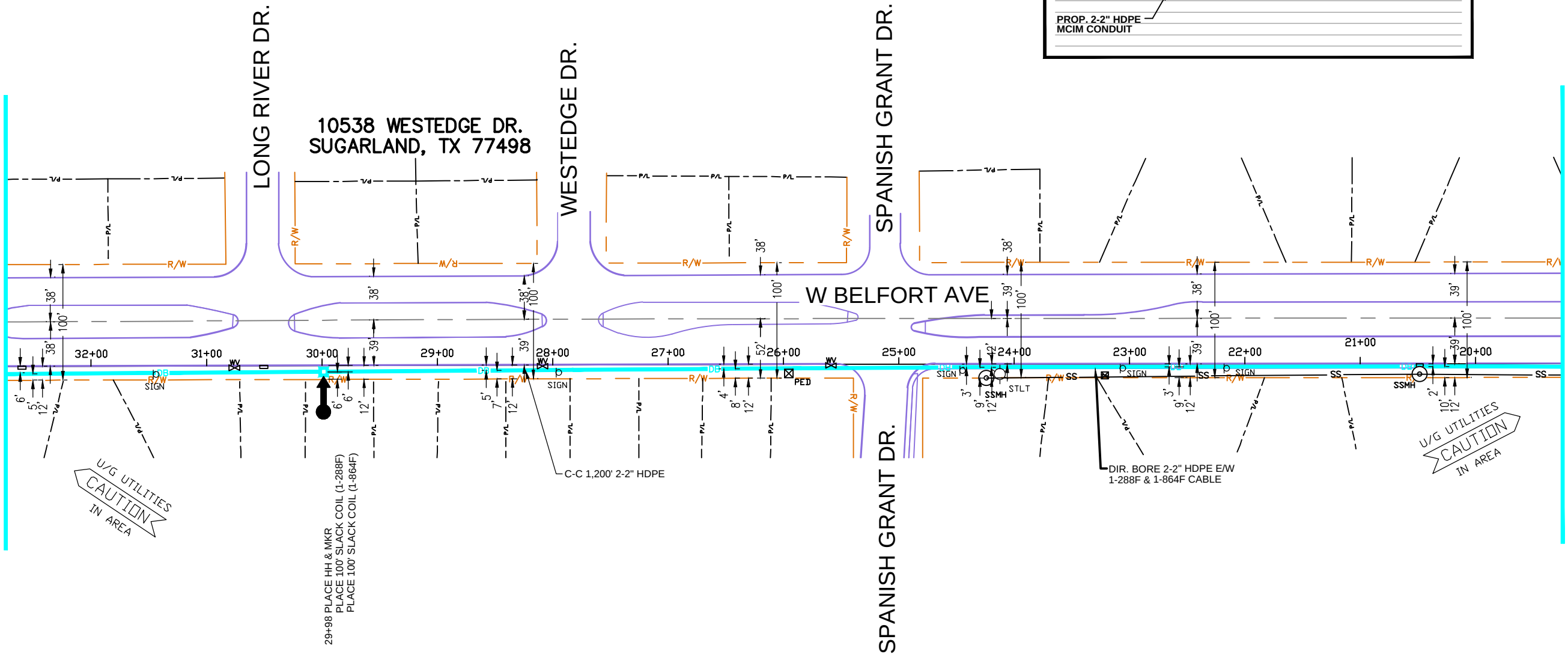
MP _____ TO MP _____

SHEET 20 OF 54

FILE:1706ANBB.008-0120AC.BEL.DWG

SEE SHEET 21 TO MATCH SURVEY STA. 32+74

SEE SHEET 19 TO MATCH SURVEY STA. 19+24



**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POTHOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG

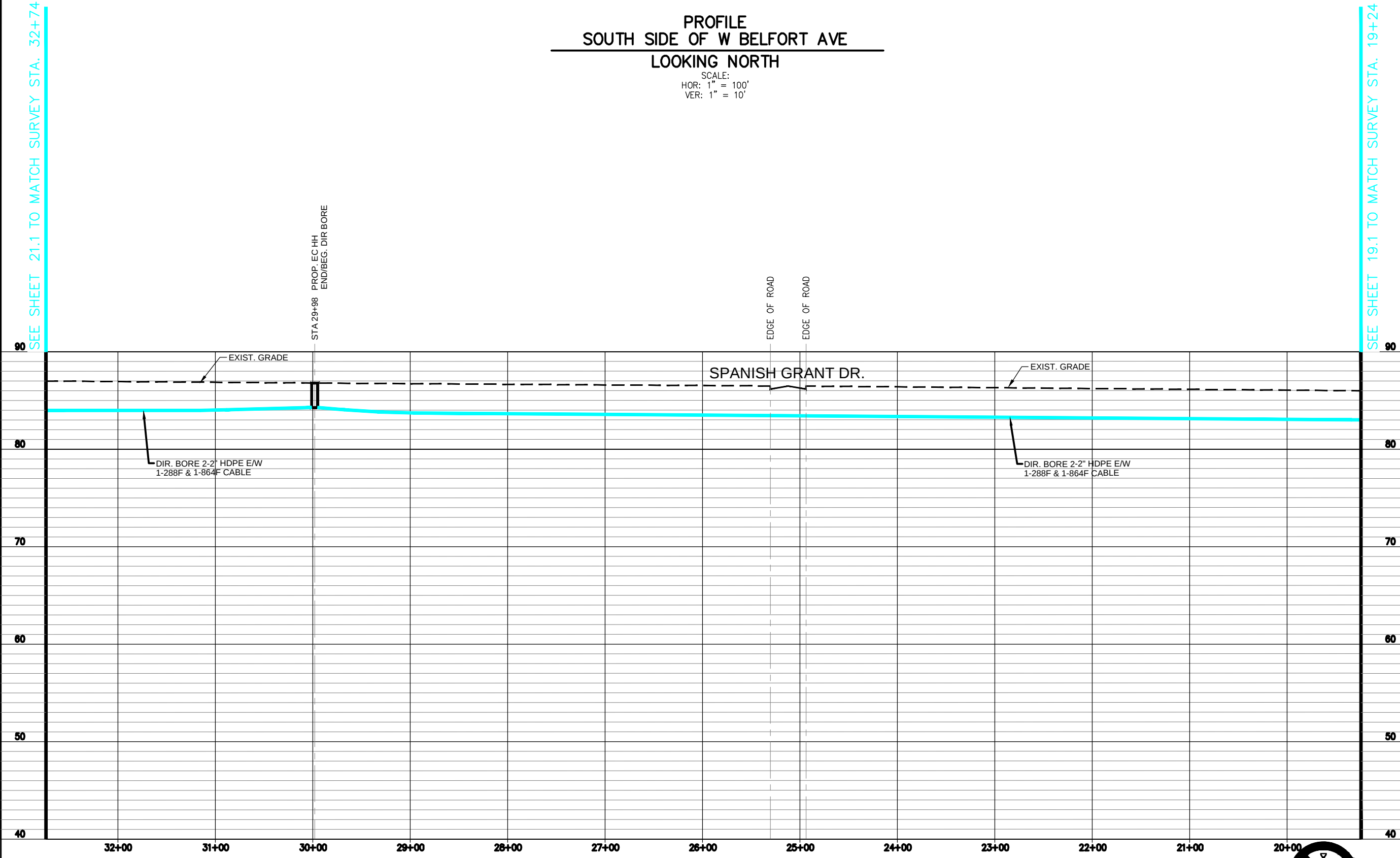
1-800-245-4545

48 HOURS NOTICE REQUIRED

SUGARLAND, TX
FORT BEND, COUNTY

PROFILE
SOUTH SIDE OF W BELFORT AVE
LOOKING NORTH

SCALE:
HOR: 1" = 100'
VER: 1" = 10'



**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	-
PLACE MARKER	
PROP. 4" HDPE	
PROP. 3-2" HDPE	
PROP. 2-2" HDPE	
PROP. 1-2" HDPE	
PULL 1-72F CABLE	
PULL 1-288F CABLE	
PULL 1-864F CABLE	
1-2" STAND OFF RISER	
DOWN GUY & ANCHOR	
PLACE 6M STRAND	
LASH 1-288F/1-864F CABLE	

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

OUTSIDE PLANT - PROFILE

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: AS NOTED

VERTICAL: AS NOTED

MP _____ TO MP _____

SHEET 20.1 OF 54

FILE:1706ANBB.008-0120.1AC.BEL.DWG

SUGARLAND, TX
FORT BEND, COUNTY



PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	1
PLACE MARKER	1
PROP. 4" HDPE	-
PROP. 3-2" HDPE	-
PROP. 2-2" HDPE	1,350'
PROP. 1-2" HDPE	-
PULL 1-72F CABLE	-
PULL 1-288F CABLE	1,450'
PULL 1-864F CABLE	1,450'
1-2" STAND OFF RISER	-
DOWN GUY & ANCHOR	-
PLACE 6M STRAND	-
LASH 1-288F/1-864F CABLE	-

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE
KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478

OUTSIDE PLANT - PLAN

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: 1"=100'

VERTICAL: 1"=100'

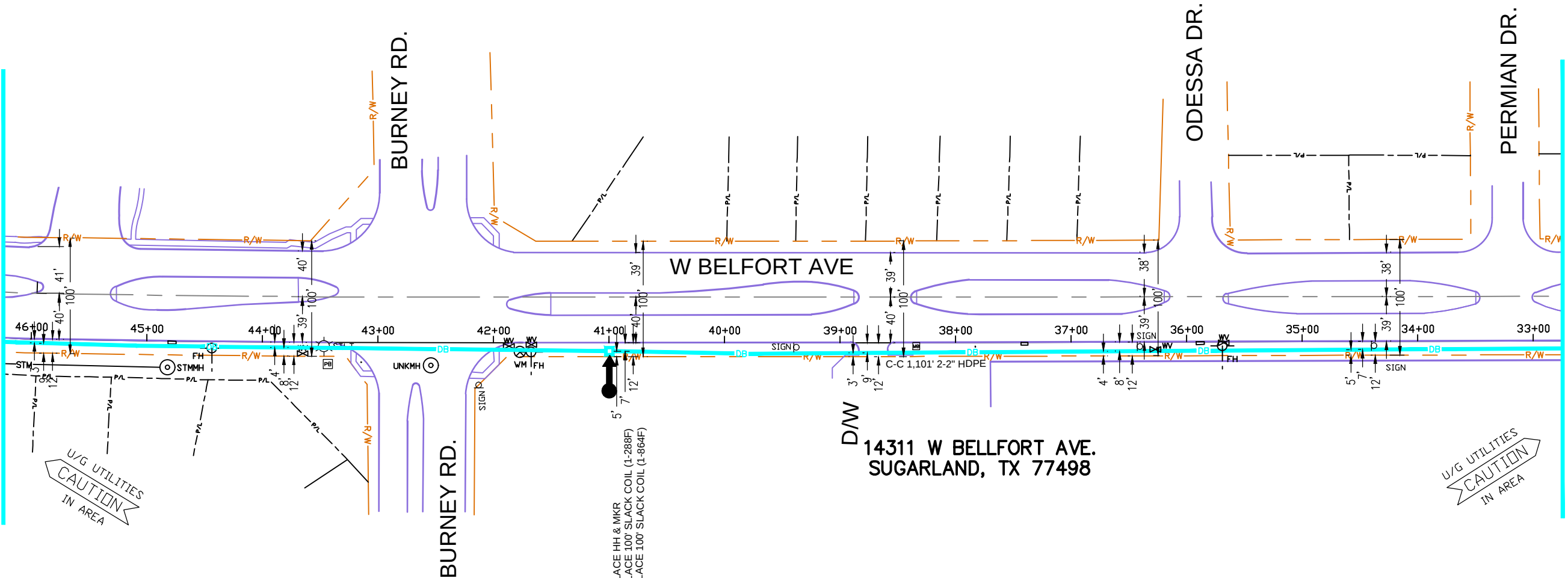
MP _____ TO MP _____

SHEET 21 OF 54

FILE:1706ANBB.008-0121AC.BEL.DWG

SEE SHEET 22 TO MATCH SURVEY STA. 46+24

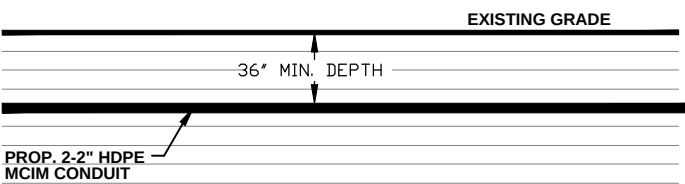
SEE SHEET 20 TO MATCH SURVEY STA. 32+74



40+99 PLACE HH & MKR
PLACE 100' SLACK COIL (1-288F)
PLACE 100' SLACK COIL (1-864F)

14311 W BELFORT AVE.
SUGARLAND, TX 77498

PROFILE
SOUTH SIDE OF W BELFORT AVE
LOOKING NORTH
NTS



**** NOTE****
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS INFORMATION. NOT BASED ON BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POTHOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY



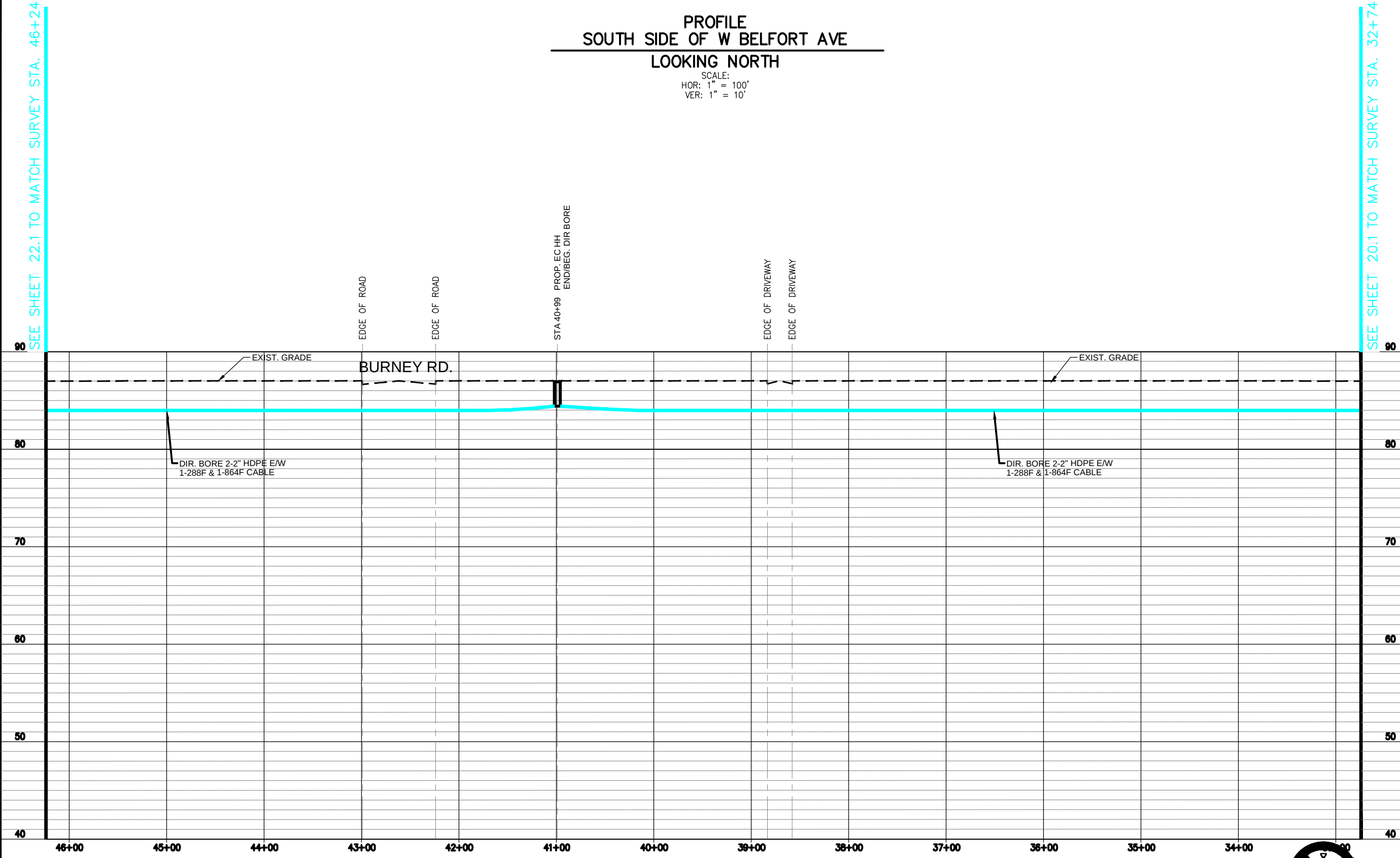
CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED



SUGARLAND, TX
FORT BEND, COUNTY

PROFILE
SOUTH SIDE OF W BELFORT AVE
LOOKING NORTH

SCALE:
HOR: 1" = 100'
VER: 1" = 10'



**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	-
PLACE MARKER	-
PROP. 4" HDPE	-
PROP. 3-2" HDPE	-
PROP. 2-2" HDPE	-
PROP. 1-2" HDPE	-
PULL 1-72F CABLE	-
PULL 1-288F CABLE	-
PULL 1-864F CABLE	-
1-2" STAND OFF RISER	-
DOWN GUY & ANCHOR	-
PLACE 6M STRAND	-
LASH 1-288F/1-864F CABLE	-

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK
SUGARLAND, TX 77478

OUTSIDE PLANT - PROFILE

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS		
DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: AS NOTED

VERTICAL: AS NOTED

MP _____ TO MP _____

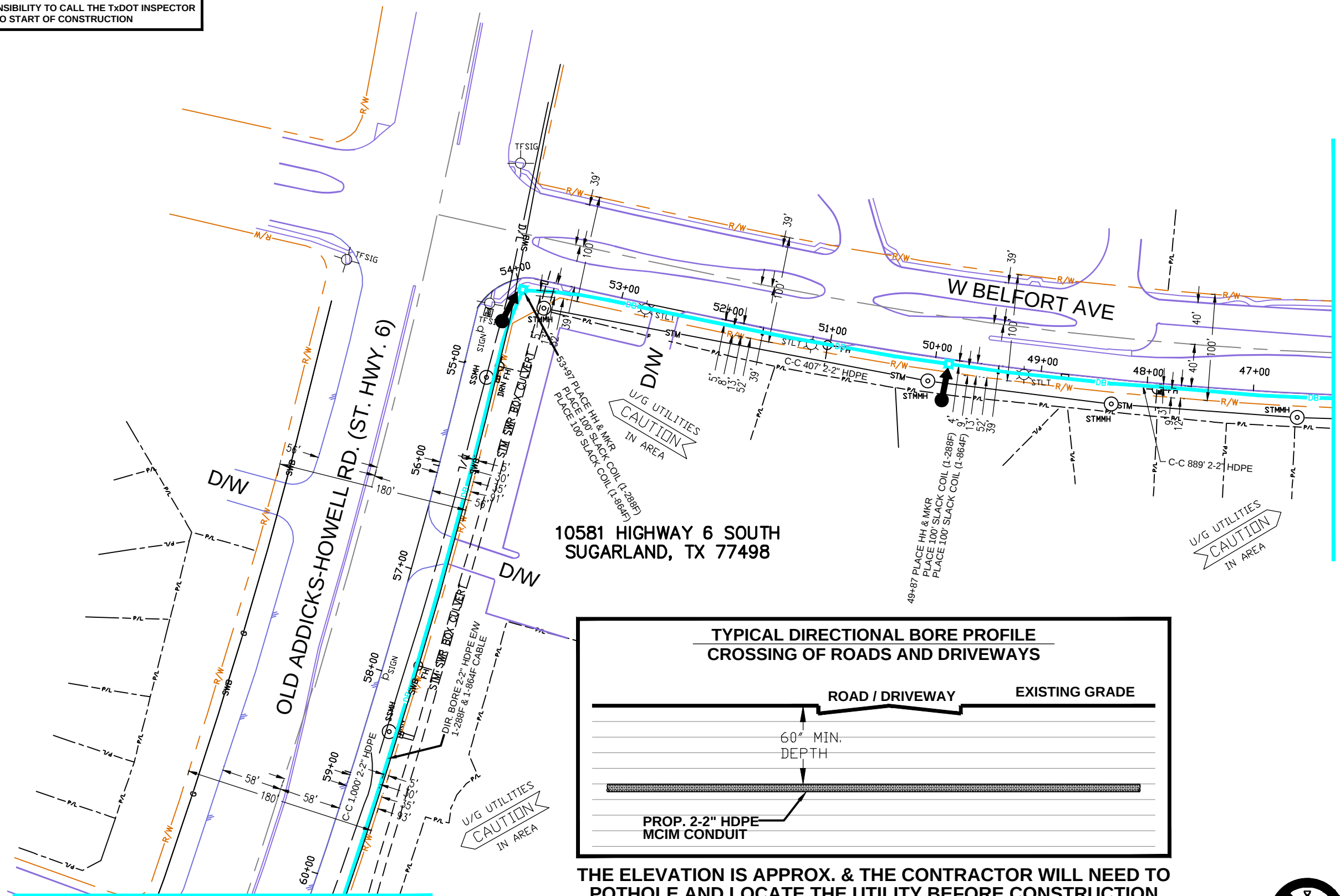
SHEET 211 OF 54

FILE:1706ANBB.008-0121.1AC.BEL.DWG

SUGARLAND, TX
FORT BEND, COUNTY

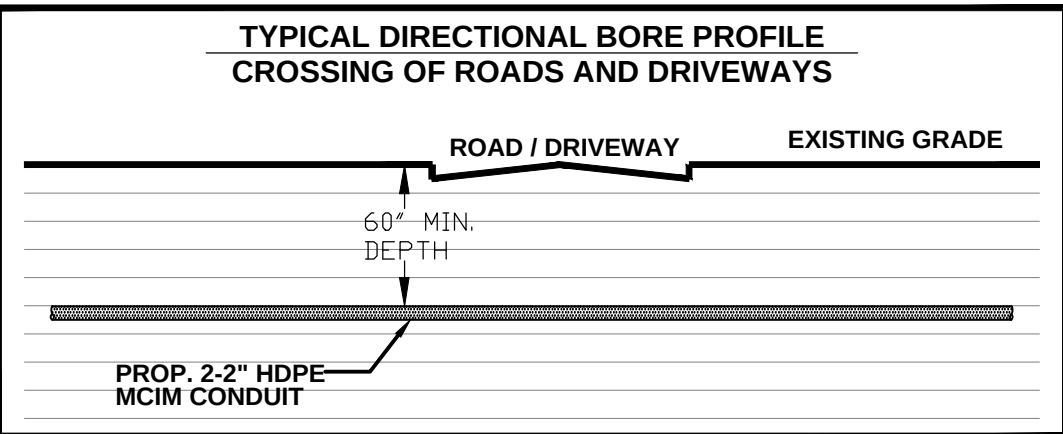


CONTRACTOR:
IT IS YOUR RESPONSIBILITY TO CALL THE TxDOT INSPECTOR
48 HOURS PRIOR TO START OF CONSTRUCTION



SEE SHEET 21 TO MATCH SURVEY STA. 46+24

10581 HIGHWAY 6 SOUTH
SUGARLAND, TX 77498



THE ELEVATION IS APPROX. & THE CONTRACTOR WILL NEED TO
POTHOLE AND LOCATE THE UTILITY BEFORE CONSTRUCTION

SEE SHEET 23 TO MATCH SURVEY STA. 60+22

**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POTHOUSING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

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



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED

PROJECT: 1706ANBB. 008		
KINGSPPOINT TO ELLIS CREEK		
SUGARLAND, TX 77478		
CLARIFICATION NO.	QUANTITY	
PLACE HANDHOLE	2	
PLACE MARKER	2	
PROP. 4" HDPE	-	
PROP. 3-2" HDPE	-	
PROP. 2-2" HDPE	1,365'	
PROP. 1-2" HDPE	-	
PULL 1-72F CABLE	-	
PULL 1-288F CABLE	1,565'	
PULL 1-864F CABLE	1,565'	
1-2" STAND OFF RISER	-	
DOWN GUY & ANCHOR	-	
PLACE 6M STRAND	-	
LASH 1-288F/1-864F CABLE	-	
MCImetro ACCESS TRANSMISSION SERVICES CORP. OUTSIDE PLANT CONSTRUCTION TITLE: FIBER OPTIC CABLE ROUTE KINGSPPOINT TO ELLIS CREEK SUGARLAND, TX 77478 OUTSIDE PLANT - PLAN		
DATE: 09/11/2017		
ENGINEER: GXT		
DRAWN BY: GXT		
REVISIONS		
DATE	DESCRIPTION	INITIAL
-	-	-
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN THE PROPERTY OF MCI COMMUNICATIONS SERVICES, INC. BOTH BEING ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION.		
SCALE		
HORIZONTAL: 1"=100'		
VERTICAL: 1"=100'		
MP _____ TO MP _____		
SHEET 22 OF 54		
FILE:1706ANBB. 008-0122AC. BEL. DWG		

SUGARLAND, TX
FORT BEND, COUNTY

PROFILE
SOUTH SIDE OF W BELFORT AVE
LOOKING NORTH

SCALE:
HOR: 1" = 100'
VER: 1" = 10'

STA 49+87 PROP. EC HH
END DIR BORE

STA 49+87 PROP. EC HH
END/BEG. DIR BORE



SEE SHEET 21.1 TO MATCH SURVEY STA. 46+24

PROJECT: 1706ANBB.008

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

CLARIFICATION NO.	QUANTITY
PLACE HANDHOLE	-
PLACE MARKER	
PROP. 4" HDPE	
PROP. 3-2" HDPE	
PROP. 2-2" HDPE	
PROP. 1-2" HDPE	
PULL 1-72F CABLE	
PULL 1-288F CABLE	
PULL 1-864F CABLE	
1-2" STAND OFF RISER	
DOWN GUY & ANCHOR	
PLACE 6M STRAND	
LASH 1-288F/1-864F CABLE	

MCImetro
ACCESS TRANSMISSION SERVICES CORP.

OUTSIDE PLANT CONSTRUCTION

TITLE: FIBER OPTIC CABLE ROUTE

KINGSPPOINT TO ELLIS CREEK

SUGARLAND, TX 77478

OUTSIDE PLANT - PROFILE

DATE: 09/11/2017

ENGINEER: GXT

DRAWN BY: GXT

REVISIONS

DATE	DESCRIPTION	INITIAL
-	-	-

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

SCALE

HORIZONTAL: AS NOTED

VERTICAL: AS NOTED

MP _____ TO MP _____

SHEET 22.1 OF 54

FILE:1706ANBB.008-0122.1AC.BEL.DWG

**** NOTE****
UTILITY & R.O.W. REPRESENTED ON
PLANS ARE BASED ON RECORDS
INFORMATION. NOT BASED ON
BOUNDARY SURVEY & FIELD EXPOSURES.

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

**** NOTE ****
ALL UTILITIES MUST BE VERIFIED BY POT-HOLING
A 18" MAXIMUM DIAMETER "CORE BORE" WILL BE MADE
THEN THE REMAINING SOIL WILL BE REMOVED BY VACUUM EXCAVATION ONLY!

CAUTION!!!
EXIST. BURIED FIBER, TELEPHONE, CATV, GAS, ELECTRIC, WATER,
SANITARY SEWER & STORM SEWER FACILITIES IN CONSTRUCTION AREA
AND HAVE NOT BEEN FIELD LOCATED, CONTRACTOR TO VERIFY EXACT
LOCATION AND DEPTH PRIOR TO ANY DIGGING AND/OR BORING.



Know what's below.
Call before you dig.



CALL BEFORE YOU DIG
1-800-245-4545
48 HOURS NOTICE REQUIRED