



FOR ADDISON USE ONLY  
 Permit Number: W-1334  
 Location: WATERFORD @ Chatham  
Acc 4615

**APPLICATION**  
**Right of Way Work Permit-FRANCHISE**

(For Franchise Utility/CTP – Street Cut/Excavation/Lane Closure)

**PLEASE PRINT LEGIBLY**

Date of Application: 2/26/18  
 Facility Owner Company: AT&T Company Phone #: 210-821-4105  
 Utility/CTP Representative: Gary Vaughan Cell Phone #: 972-649-8770  
 Utility/CTP Representative E-mail: GV3491@att.com  
 General Contractor: Hoosierland Excavating Company Phone # 574-742-0212  
 Site Supervisor Name: Chris Eby 24-hour Phone # 574-612-6791  
 Contractor E-mail: ej.hle@outlook.com Site Foreman E-mail: chriseby.hle@outlook.com  
 Work Site Address and Location: 3748 Chatham Dr/ Les Lacs

Purpose and general description of work: install light gig fiber Acc 4615  
 Proposed Start Work Date: 3/1/18 Estimated Completion Date: 7/1/18

Pavement Cut?  Yes  No Directional Bore/Boring?  Yes  No Excavation?  Yes  No  
 Lane Closure?  Yes  No Other: \_\_\_\_\_

Erin Jones *Erin Jones* Project Manager  
 Applicant's Printed Name Signature Position with Company

Applicant's E-mail: ej.hle@outlook.com Applicant's Phone #: \_\_\_\_\_  
Tony Martain 574-320-2747 Hoosierland Excavating  
 Direct Supervisor's Name Phone Number Company Name

Supervisor's E-mail: \_\_\_\_\_

**FOR ADDISON USE ONLY**

Received By: DW via Email Entered?  Yes  No Received Date: 2/26/18

Approved By: Dave Wilde Inspector: JF/DW Issue Date: 2/27/18

Plans Submitted?  Yes  No  N/A Traffic Control Plan submitted?  Yes  No  N/A Expiration Date: 3/13/18

Insurance Provided?  Yes  No  On File Performance/Maintenance Bond?  Yes  No  On File  N/A

Fee Paid: NA Receipt #: CTP Processed By: \_\_\_\_\_

Picked Up By: Philip Ramer Company: Hoosierland Date & Time: 2.28.18

TOWN OF ADDISON INFRASTRUCTURE AND DEVELOPMENT SERVICES DEPARTMENT  
 ATTN.: RIGHT OF WAY PERMIT - DAVE WILDE 972-450-2847  
 16801 WESTGROVE RD. ADDISON, TX 75001-9010  
 PHONE: 972-450-2871 FAX: 972-450-2837



FOR ADDISON USE ONLY  
 Permit Number: W-1334  
 Location: Waterford II/Chatham

**APPLICATION**  
**Right of Way Work Permit -FRANCHISE**  
 (For Franchise Utility/CTP - Street Cut/Excavation/Lane Closure)

**Sub-Contractor List**

**PLEASE PRINT LEGIBLY**

General Contractor's Name: Hoosierland Excavating General Contractor's Phone #: \_\_\_\_\_

**Sub-Contractor #1** Company Name: Satellite Cable Construction Address: 437 Big Salty Ln Springtown TX 76082

Print Sub-Contractor's Name: Rick Ochoa Sub-Contractor Phone #: 817-819-5385

Sub-Contractor's E-mail: sccrmo@hotmail.com

Print Site Supervisor's Name: Same as listed above Supervisor's Phone #: \_\_\_\_\_

Site Supervisor's E-mail: \_\_\_\_\_

Insurance Provided?  Yes  No  On File

**Sub-Contractor #2** Company Name: \_\_\_\_\_ Address: \_\_\_\_\_

Print Sub-Contractor's Name: \_\_\_\_\_ Sub-Contractor Phone #: \_\_\_\_\_

Sub-Contractor's E-mail: \_\_\_\_\_

Print Supervisor's Name: \_\_\_\_\_ Supervisor's Phone #: \_\_\_\_\_

Site Supervisor's E-mail: \_\_\_\_\_

Insurance Provided?  Yes  No  On File

**Sub-Contractor #3** Company Name: \_\_\_\_\_ Address: \_\_\_\_\_

Print Sub-Contractor's Name: \_\_\_\_\_ Sub-Contractor Phone #: \_\_\_\_\_

Sub-Contractor's E-mail: \_\_\_\_\_

Print Supervisor's Name: \_\_\_\_\_ Supervisor's Phone #: \_\_\_\_\_

Site Supervisor's E-mail: \_\_\_\_\_

Insurance Provided?  Yes  No  On File



# CERTIFICATE OF LIABILITY INSURANCE

HOOS-11 OP ID: CH

DATE (MM/DD/YYYY)  
02/27/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

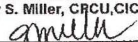
<b>PRODUCER</b> R.S. Miller & Sons, Inc. P.O. Box 229 109 W. Plymouth Street Bremen, IN 46506 Gregory S. Miller, CPCU, CIC	<b>CONTACT NAME:</b> Gregory S. Miller, CPCU, CIC <b>PHONE (A/C, No. Ext):</b> 574-546-3341 <b>FAX (A/C, No.):</b> 574-546-2687 <b>EMAIL ADDRESS:</b>	
	<b>INSURER(S) AFFORDING COVERAGE</b> INSURER A: Westfield Ins. Co.      NAIC # 24112 INSURER B: CNA Surety INSURER C: INSURER D: INSURER E: INSURER F:	<b>INSURED</b> Hoosierland Excavating, LLC Tony Martin 18941 New Rd. South Bend, IN 46614

<b>COVERAGES</b>	<b>CERTIFICATE NUMBER:</b>	<b>REVISION NUMBER:</b>
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THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> Included XCU  GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER	Y	TRA4952417	10/01/2017	10/01/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 500,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/CP AGG \$ 2,000,000
A	<input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		TRA4952417	10/01/2017	10/01/2018	COMBINED SINGLE LIMIT (Per accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$	Y	TRA4952417	10/01/2017	10/01/2018	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
A	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N/A	WCP4952418	10/01/2017	10/01/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	Pollution Liab		CEO6045811324	01/15/2018	01/15/2019	1,000,000
B	Professional Liab		CEO6045811324	01/15/2018	01/15/2019	1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
Leased / rented equipment - \$100,000

<b>CERTIFICATE HOLDER</b> ADDISON  Town of Addison 16801 WestGrove Drive Addison, TX 75001	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE Gregory S. Miller, CPCU, CIC 
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RIGHT OF WAY, EXCAVATION &  
LANE CLOSURE PERMIT



INFRASTRUCTURE &  
DEVELOPMENT SERVICES

16801 WESTGROVE DRIVE  
ADDISON, TEXAS 75001  
972.450.2871

**W-1334**

PERMIT NUMBER

**3/01/18**

START DATE

**7/01/18 HOOSIERLAND EXC AT&T**

EST. COMPLETION DATE

CONTRACTOR

FOR

**WATERFORD II / CHATHAM**

LOCATION (ADDRESS)

**STREET ROW IN NEIGHBORHOOD**

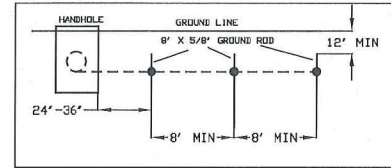
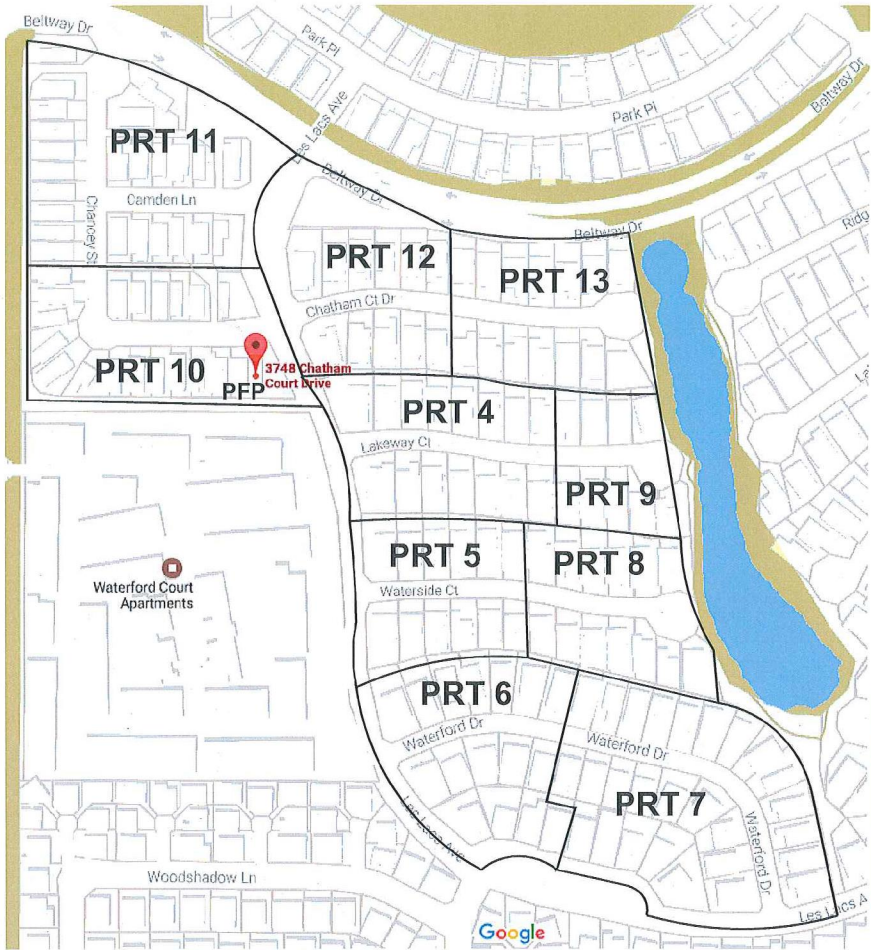
LOCATION (ACTUAL)

**INSTALL LIGHT GIG FIBER OPTIC SYSTEM**

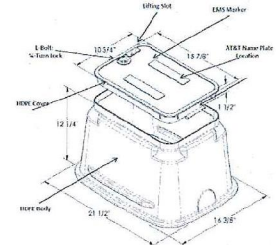
TYPE OF WORK

THIS CARD MUST BE DISPLAYED ON THE JOB SITE AT ALL TIMES.

# LOCATION MAP



GROUND BED DETAIL FOR HANDHOLES



PLACE THESE DROP CLOSURES INSTEAD WHERE A PEDESTAL SYMBOL IS SHOWN. PFD 30111225

**READY BSC** 1 READY FOR SERVICE TR  
**ENABLE BSC** 1 PSA TRIGGER STEP

**CAUTION!**  
 Unterminated optical connectors and active fibers may emit laser radiation. DO NOT VIEW with or without optical instruments or magnifiers.  
**CAUTION!**  
 Request that all laser sources be disconnected from cable to be worked on. Check fibers on unterminated connectors with infrared scope to assure systems are inactive before splicing.  
**REMARKS:** MINIMUM STATIC BENDING RADIUS IS 5'. Use Bu's Splice Configuration. Fusion Splicing to be done Outside this Manhole.

BOND & GROUND PER ATT - TELCO - 002-206-015 BURIED & UNDERGROUND

161 LU'S  
 ADDITIONAL REC. REF.  
 697-645-44-1  
 697-645-44-3  
 697-645-44-4

FPF PROJECT# A00XY6X

Engineer-James Jones  
 Cell #(469)367-4685

SPECIAL CIRCUITS **N**  
 6203 FORWARDED **N**  
 PERMIT REQUIRED **Y**

NORTH ARROW

OPERATING RANGE OF JOB STEPS  
 TASK \_\_\_\_\_ TO \_\_\_\_\_  
 MFR C **BSC**

TRANSMISSION ZONE  
 RZ **0** CZ **0** TAPER CODE **1172LE**  
 CAUTION HIGH VOLTAGE  
 KV **7.20** AERIAL **N** BURIED **Y**

UTILITY CO **DEDC - DCDR ELECTRIC DELIVERY C**  
 REP NAME  
 REP TEL NO. **(888) 313-6862**  
 POLE CONTACTS **(+) 0 (-) 0**

UTILITY CO  
 REP NAME  
 REP TEL NO.  
 POLE CONTACTS **(+) 0 (-) 0**

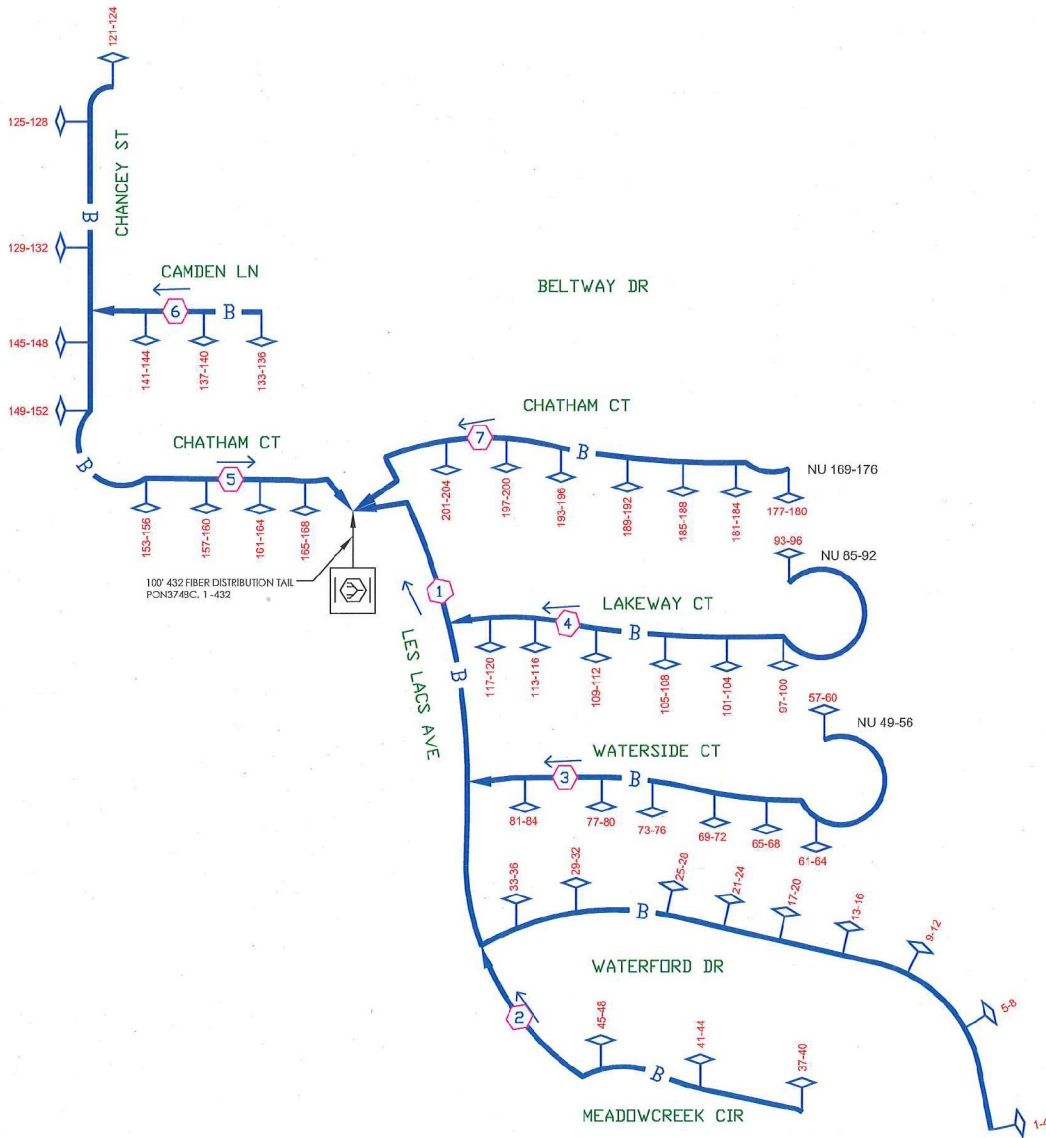
UTILITY CO  
 REP NAME  
 REP TEL NO.  
 POLE CONTACTS **(+) 0 (-) 0**

PROJECT NO **A00Y6XS**

TOT. PRINTS **15** PRINT NO. **1**  
 NPA/NNX: **972-241** PRT: **972241**  
 EXCH. **FARMERS BRANCH**  
 TAX DIST. **DB007**  
 GEO LOC. **TT8241**  
 ENGR. **JJX** DRAWN **BB**  
 TELEPHONE NO. **(972) 470-7234**  
 REC. REF. **697-645-44-2**  
 MAP REF. **14E, 13H**  
 SCALE **NONE**  
 ISSUE DATE  
 PROJ TITLE **LIGHTGIG-1172LE-DIST-FB**  
 REV. NUMBER  
 DATE REV.

Proposed Cables

- 1 FNAP-CBL-144EUC  
845C, 0' DF, 1-24  
PON3748C, 1-120
- 2 FNAP-CBL-024EUC  
845C, 0' DF, 1-12  
PON3748C, 37-48
- 3 FNAP-CBL-046EUC  
845C, 0' DF, 1-12  
PON3748C, 49-84
- 4 FNAP-CBL-048EUC  
845C, 0' DF, 1-12  
PON3748C, 85-120
- 5 FNAP-CBL-048EUC  
845C, 0' DF, 1-12  
PON3748C, 121-168
- 6 FNAP-CBL-024EUC  
845C, 0' DF, 1-12  
PON3748C, 133-144
- 7 FNAP-CBL-048EUC  
845C, 0' DF, 1-12  
PON3748C, 169-204



DFSS stamp not utilized since CLR requirements for Lightgig Design are 1 fiber per LU.

45 FST 4 Terminals

SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS  
TASK \_\_\_\_\_ TO \_\_\_\_\_  
MFR C 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - DINCOR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6YS

TOT.PRINTS 15 PRINT NO. 2  
NPA/NNX: 972-241 PRT:972241  
EXCH. FARMERS BRANCH  
TAX DIST. DB007  
GEO LOC. TT8241  
ENGR. JJX DRAWN BB  
TELEPHONE NO. (972) 470-7234  
REC. REF. 697-645-44-2  
MAP REF. 14E, 13H  
SCALE NONE  
ISSUE DATE  
PROJ TITLE LIGHTGIG-1172LE-DIST-FB  
REV. NUMBER  
DATE REV.

ADDITIONAL REC. REF.  
697-645-44-1  
697-645-44-3  
697-645-44-4

PEP PROJECT# A00Y6X

Engineer James Jones  
Cell # (469) 367-4685

--Proprietary--  
Not for use or disclosure outside the AT&T companies except under written agreement.

Existing Cables

- PLC'D ON PROJECT# A00XY6X
- 1 95M, DB006J  
FD, 072J  
PPF, DILLSTXAD
  - 2 3748 CHATHAM COURT DR  
A, 1-72  
CONDUIT-PVC-4
  - 3 SC-APC 1X32 FDH - 66  
R 3748 CHATHAM COURT DR  
85M, DB006  
In: F8021, 19-20  
Out: SPT1172LE, 1-64 1X32
  - 4 R 3748 CHATHAM COURT DR  
LS - PFP  
BANKS432-100ST, 85M, DB006J, PFP-196  
In: SPT1172LE, 1-64 E.P. 1-64  
Out: P0N3748C, 1-432 E.P. 1-432  
4% PR PFP
  - 5 S802MT-024  
845M, 0'  
F8021, 19-24  
C, 7-24  
FH  
4M, DB006J  
3 X 5 X 4 60 cu.ft.

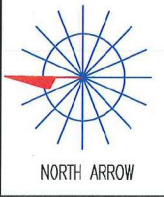
- 6 AFMV-100  
45M, 195J, 1992  
3748C, 101-175  
A, 76-100
- 7 AFMV-900  
45M, 36J, 1993  
3748C, 201-1100
- 8 AFMV-600  
45M, 616J, 1992  
30, 140-1454  
F, 101-125  
30, 976-1000  
30, 115-1178  
30, 1437-1500  
F, 101-125  
30, 976-1000  
30, 115-1178  
30, 1437-1500  
F, 101-125  
30, 976-1000  
30, 115-1178  
30, 1437-1500  
F, 101-125
- 9 AFMV-100  
45M, 307J, 1992  
3748C, 1-100
- 10 R 3748 CHATHAM COURT DR  
SAL1800-768PFG, 45M, 206J, DB007, SAT-1800  
Feeder Type: Distribution Type
- 11 845M, 282J, 2007  
A, 415-420  
F8011, 403-414  
A, 13-16  
A, 17-24
- 12 S802MT24-250LP  
845M, 1J, 2008  
ADSTXKU  
3748 CHATHAM CT VRAD  
In: F8011, 365-368  
Out: 3748CFN\_D, 1-400
- 13 9257M, DB006, 2008  
ALP-248C-TAN  
3748 CHATHAM CT VRAD  
In: F8011, 365-368  
Out: 3748CFN\_D, 1-400
- 14 ANMV-900  
5M, 50J, 2008  
3748CFN\_D, 1-400  
3748CFN\_D, 1-400  
B, 801-900
- 15 AFMV-100  
45M, 168J, 1993  
3748C, 501-600
- 16 AFMV-100  
45M, 195J, 1992  
3748C, 101-175  
A, 76-100

Proposed Cables

- 17 FNAP-CBL-144EUC  
845C, 1876'  
DF, 1-24  
P0N3748C, 1-120
  - 18 FNAP-CBL-048EUC  
845C, 1122'  
P0N3748C, 121-168
  - 19 FNAP-CBL-048EUC  
845C, 873'  
DF, 1-12  
P0N3748C, 169-204
- SS=1851'  
1876 MATERIAL ONLY  
180 BORE & PLACE ONE CAB  
234 PLACE ADDITIONAL CAB
- SS=1097'  
1122 MATERIAL ONLY  
1047 BORE & PLACE ONE CAB  
267 PLACE ADDITIONAL CAB
- SS=848'  
873 MATERIAL ONLY  
798 BORE & PLACE ONE CAB  
47 PLACE ADDITIONAL CAB

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	*MATL	FNAP-CBL-144EUC	845C	DB007	1876	0
2	*MATL	FNAP-CBL-048EUC	845C	DB007	1122	0
3	*MATL	FNAP-CBL-048EUC	845C	DB007	873	0

SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS  
TASK 1 TO 52  
MFRC 85C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE  
CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - DINCOR ELECTRIC DELIVERY CO  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

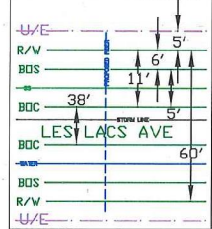
Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

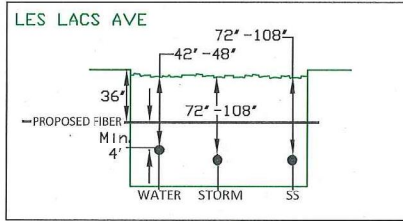
PROJECT NO A00XY6X

TOT.PRINTS 15 PRINT NO. 3  
NPA/NNX: 972-241 PRT:972241  
EXCH. FARMERS BRANCH  
TAX DIST. DB007  
GEO LOC. TT8241  
ENGR. JJK DRAWN BB  
TELEPHONE NO. (972) 470-7234  
REC. REF. 697-645-44-2  
MAP REF. 14E, 13H  
SCALE NONE  
ISSUE DATE  
PROJ TITLE LIGHTGIG-1172LE-DIST-FB  
REV. NUMBER 1  
DATE REV. 02/21/2018

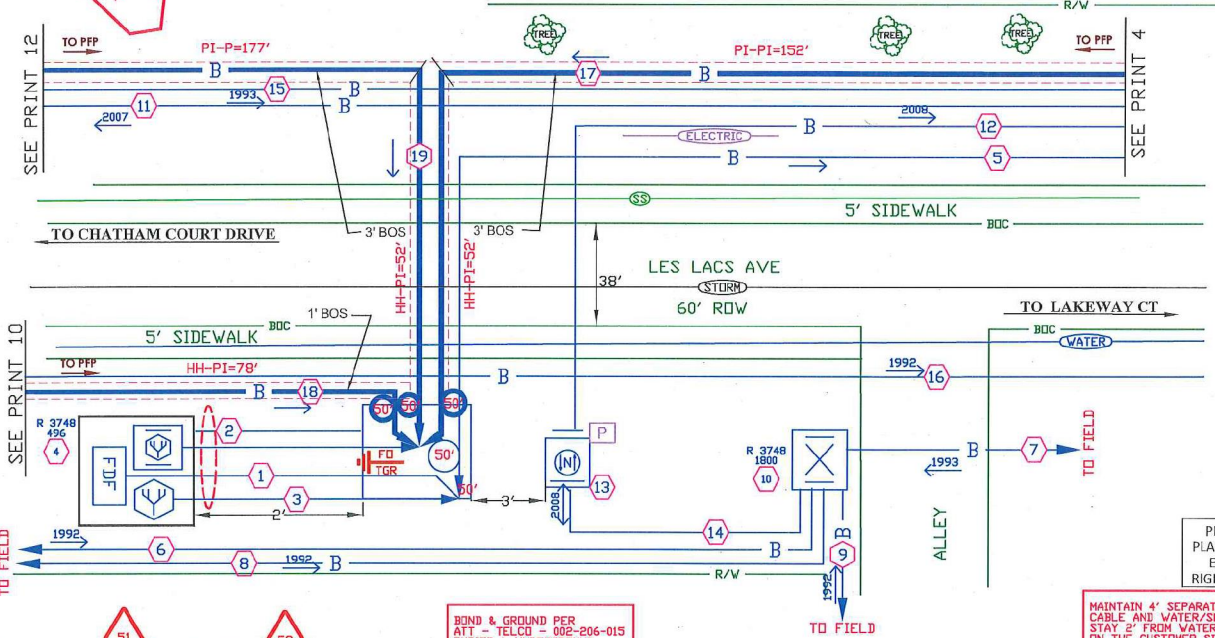
TYPICAL PLAN PROFILE



BORE PROFILE



CONTRACTOR TO LOCATE AND VERIFY ALL UTILITIES BOTH HORIZONTALLY & VERTICALLY POT HOLE FOR WATER/SS SVC LINE



4 845C MISCHMAT 17101 EXTRA COSTS  
5 845C MISCON 3150 EXTRA COSTS

51 R 3748 IF=100 K.F.  
2 ADD MORE THAN 2 CABL.  
408 JOIN/UNJOIN FIBER AL.

52 204 TESTING FIBER FACIL

BOND & GROUND PER ATT - TELCO - 002-206-015 BURIED & UNDERGROUND

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PLACE ALL PLANT WITHIN EXISTING RIGHT OF WAY

MAINTAIN 4' SEPARATION BETWEEN CABLE AND WATER/SEWER STAY 2' FROM WATER METER ON THE CUSTOMER SIDE

36'

ADDITIONAL REF:  
697-645-44-1  
697-645-44-3  
697-645-44-4

PFP PROJECT# A00XY6X

Engineer-James Jones  
Cell # (469) 387-4885

Existing Cables

- 1 AFNW-100  
45M, 160', 1993  
3748C, 501-601
- 2 AFNW-50  
45M, 177', 1993  
3748C, 601-650
- 3 AFNW-25  
45M, 406', 1993  
3748C, 601-625
- 4 AFNW-50  
45M, 346', 1993  
3748C, 451-500
- 5 AFNW-300  
45M, 118', 1993  
3748C, 201-503
- 6 AFNW-25  
45M, 0', 1993  
3748C, 451-475
- 7 SBQ2MT24-250LP  
B45M, 17', 2008  
FB011, 365-368  
A, 5-24
- 8 SBQ2MT-024  
B45M, 0'  
FB021, 19-24  
C, 7-24
- 9 SBQ2MT-024  
B45M, 282', 2007  
A, 415-420  
FB011, 409-414  
A, 13-16  
A, 17-24
- 10 ANMW-1200  
45M, 90', 2007  
14700MFL\_I, 1-400  
14700BFL\_U, 1-200  
14700MFL\_U, 1-400  
14700BFL\_U, 1-200
- 11 9257M, DB009, 2007  
7330FTNS2B710  
ADSNXYL  
R 14700 MARSH LN VRAD  
LS - VRAD  
In: 14700MFL\_U, 1-400  
FB011, 409-412  
Out: 14700MFL\_U, 1-400RZ 15
- 12 ANMW-400  
45C, 25', 2015  
14700BFL\_U, 1-200  
14700BFL\_U, 1-200
- 13 SBQ2MT24-150  
B45M, 150', 2007  
FB011, 409-412  
A, 5-24
- 14 SBQ2MT24-100  
B45M, 100', 2015  
FB011, 413-414  
A, 3-24
- 15 9257M, 2015  
ALP-448  
ADSNXYL  
R 14700 MARSH LN VRAD  
LS - VRAD CAB 2  
In: 14700BFL\_U, 1-200  
FB011, 413-414  
Out: 14700BFL\_U, 1-200
- 16 AFNW-300  
45M, 210', 1993  
D, 251-300  
3748C, 201-450

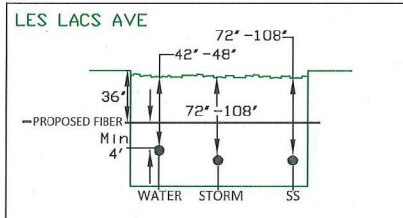
ENTIRE PRINT

- 3 8645C INNERDUCT  
228 EXEMPT MATERIAL ONLY  
160 BORE & PLACE ONE CAB
- 4 4 PLACE PEDESTAL/APP C  
BROOKS CLOSURE
- 5 8645C 4 PLACE PEDESTAL/APP C
- 6 5 PLACE CURB MARKER -

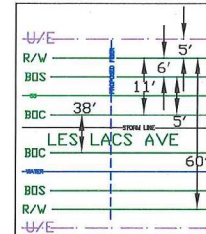
Proposed Cables

- 17 FNAP-CBL-144EUC  
845C, 0'  
DF, 1-24  
PON3748C, 1-120  
SS=877' TETHER  
IF=420 K.F.  
FNAP-CBL-048EUC  
927 MATERIAL ONLY  
827 BORE & PLACE ONE CAB  
150 PLACE ADDITIONAL CAB
- 18 1 - 2.00' - INNERDUCT 79'
- 19 1 - 2.00' - INNERDUCT 49'
- 20 1 - 2.00' - INNERDUCT 51'
- 21 1 - 2.00' - INNERDUCT 49'
- 22 1 - 2.00' - INNERDUCT 49'

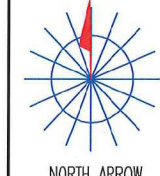
BORE PROFILE



TYPICAL PLAN PROFILE



SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS  
TASK 1 TO 6  
MFC 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172E  
CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y  
HIGHWAY PERMIT NO.

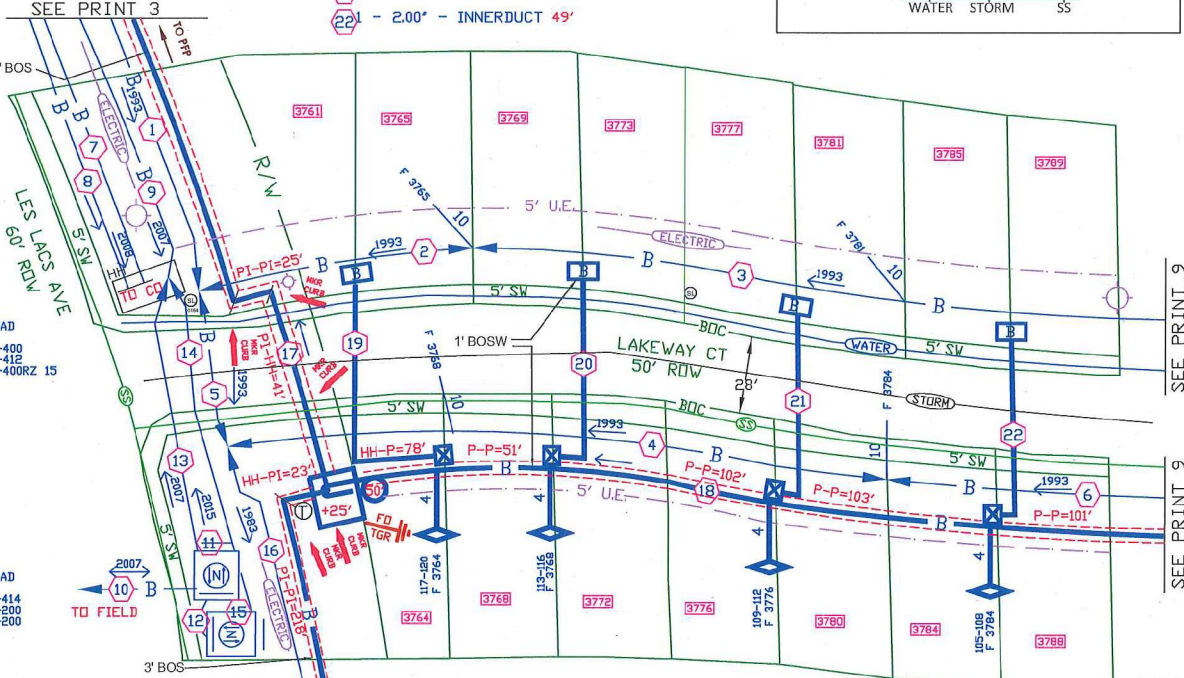
Utility CO IEDC - INDCR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6S

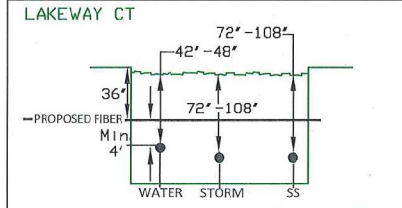
TOT.PRINTS 15 PRINT NO.4  
NPA/NNX: 972-241 PRT:972241  
EXCH. FARMERS BRANCH  
TAX DIST. DB007  
GEO LOC. T18241  
ENGR. JJK DRAWN BB  
TELEPHONE NO. (972) 470-7234  
REC. REF. 697-645-44-2  
MAP REF. 14E, 13H  
SCALE NONE  
ISSUE DATE  
PROJ TITLE LIGHTGIG-1172E-DIST-FB  
REV. NUMBER 1  
DATE REV. 02/21/2018



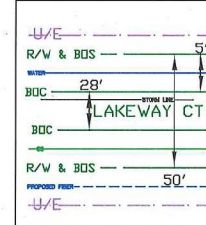
SEE PRINT 9

SEE PRINT 9

BORE PROFILE



TYPICAL PLAN PROFILE



CONTRACTOR TO LOCATE AND VERIFY ALL UTILITIES BOTH HORIZONTALLY & VERTICALLY POTHOLE FOR WATER/SS SVC LINE

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	*MATL	FNAP-CBL-048EUC	845C	DB007	927	0

LOCATE ALL UTILITIES BEFORE DIGGING

ADDITIONAL REF:  
697-645-44-1  
697-645-44-3  
697-645-44-4

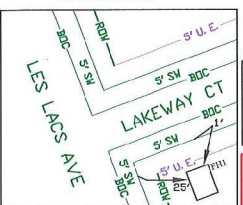
MAINTAIN 4" SEPARATION BETWEEN CABLE AND WATER/SEWER STAY 2" FROM WATER METER ON THE CUSTOMER SIDE

PEP PROJECT# A00Y6X  
Engineer: James Jones  
Cell # (469) 387-4685

Not for use or disclosure outside the AT&T companies except under written agreement.

Proprietary

FHI DETAIL



HH 1  
845C, DB007,  
17 X 30 X 34 10 cu.ft.

PLACE ALL PLANT WITHIN EXISTING RIGHT OF WAY

BOND & GROUND PER ATT - TELCO - 002-206-015 BURIED & UNDERGROUND



Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	*MATL	FNAP-CBL-048EUC	845C	DB007	919	0

Existing Cables

- 1 AFMW-50 45M, 151' 1993 3748C, 401-450
- 2 AFMW-25 45M, 409' 1993 3748C, 401-425
- 3 AFMW-200 45M, 68' 1993 3748C, 201-400
- 4 AFMW-50 45M, 317' 1993 3748C, 351-400
- 5 AFMW-25 45M, 0' 1993 3748C, 351-375
- 6 AFMW-300 45M, 210' 1993 D, 251-300 3748C, 201-400
- 7 AFMW-200 45M, 274' 1993 3748C, 201-350 D, 151-200

Proposed Cables

- 8 FNAP-CBL-144EUC 845C, 0' IF, 1-24 FON3748C, 1-120 SS=869' TETHER IF=725 K.F.
- 9 FNAP-CBL-048EUC 845C, 919 FNAP-CBL-048EUC 919 MATERIAL ONLY 819 BORE & PLACE ONE CAB 56 PLACE ADDITIONAL CAB FON3748C, 49-84
- 10 1 - 2.00' - INNERDUCT 40'
- 11 1 - 2.00' - INNERDUCT 40'
- 12 1 - 2.00' - INNERDUCT 40'

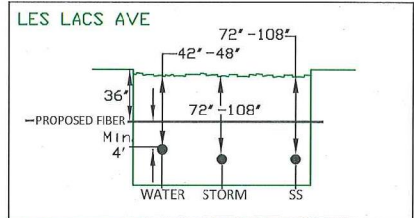
ENTIRE PRINT

- 3 8645C INNERDUCT 120 EXEMPT MATERIAL ONLY 120 BORE & PLACE ONE CAB
- 4 3 PLACE PEDESTAL/APP C BROOKS CLOSURE
- 5 8645C 3 PLACE PEDESTAL/APP C
- 6 3 PLACE CURB MARKER -

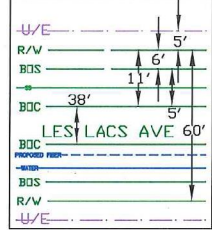
LOCATE ALL UTILITIES BEFORE DIGGING

MAINTAIN 4' SEPARATION BETWEEN CABLE AND WATER/SEWER STAY 2' FROM WATER METER ON THE CUSTOMER SIDE

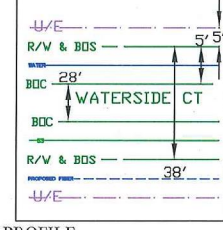
BORE PROFILE



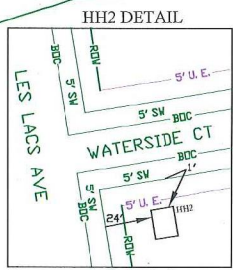
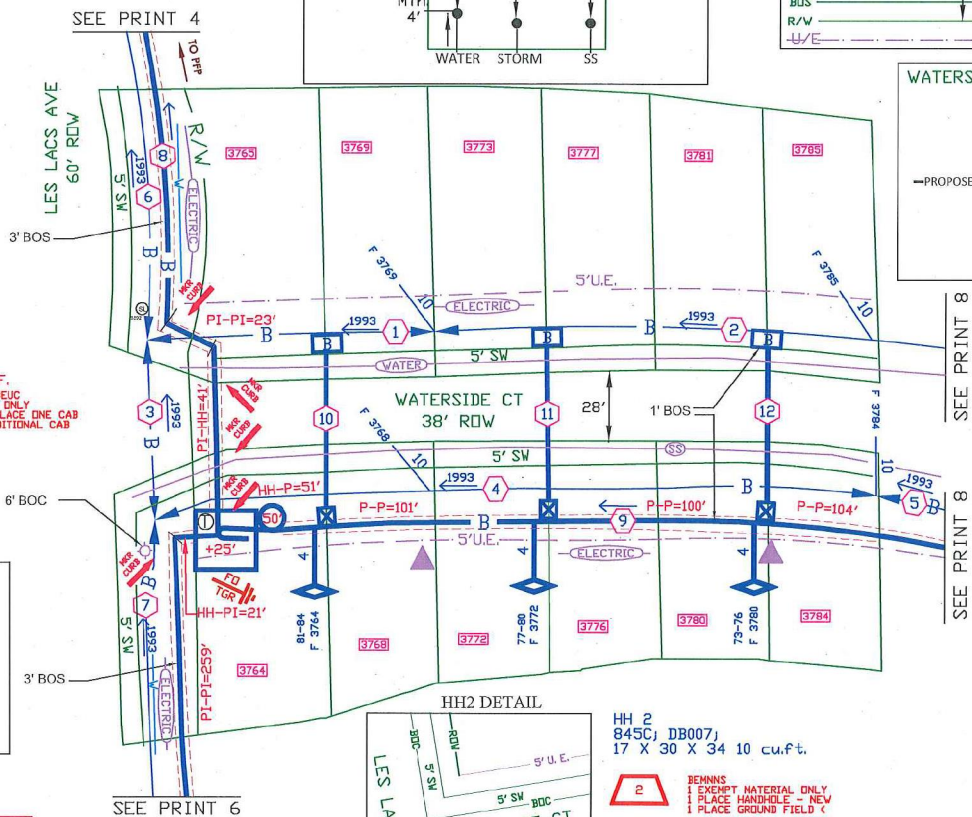
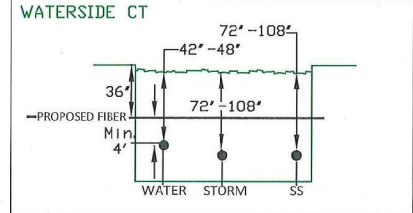
TYPICAL PLAN PROFILE



TYPICAL PLAN PROFILE



BORE PROFILE



HH 2  
845C, DB007,  
17 X 30 X 34 10 cu.ft.  
2  
BEMNS  
1 EXEMPT MATERIAL ONLY  
1 PLACE HANDHOLE - NEW  
1 PLACE GROUND FIELD C

BOND & GROUND PER ATT - TELCO - 002-206-015 BURIED & UNDERGROUND

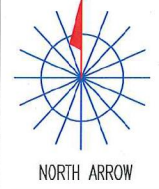
PLACE ALL PLANT WITHIN EXISTING RIGHT OF WAY

ADDITIONAL REC. REF.  
697-845-44-1  
697-845-44-3  
697-845-44-4

PPP PROJECT# A00XY6X

Engineer-James Jones  
Cell #469387-4685

SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS  
TASK 1 TO 6  
MFRC 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - ENCR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6XS

TOT. PRINTS 15 PRINT NO. 5  
NPA/NNX: 572-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. DB007

GEO LOC. TT8241

ENGR. JJK DRAWN BB

TELEPHONE NO. (972) 470-7234

REC. REF. 697-645-44-2

MAP REF. 14E, 13H

SCALE NONE  
ISSUE DATE  
PROJ TITLE LIGHTGIG-1172LE-DIST-FB  
REV. NUMBER 1  
DATE REV. 02/21/2018

Existing Cables

- 1 AFMW-50  
45M, 373', 1993  
3748C, 301-350
- 2 AFMW-100  
45M, 68', 1993  
3748C, 201-300
- 3 AFMW-25  
45M, 527', 1993  
3748C, 301-325
- 4 AFMW-25  
45M, 573', 1993  
3748C, 201-225
- 5 AFMW-50  
45M, 437', 1993  
3748C, 251-300
- 6 AFMW-200  
45M, 274', 1993  
3748C, 201-350  
D, 151-200

Proposed Cables

- 7 FNAP-CBL-144EUC  
845C, 0'  
DF, 1-24  
PDM3748C, 1-120
- 8 FNAP-CBL-024EUC  
845C, 750'  
DF, 1-12  
PDM3748C, 37-48
- 9 1 - 2.00' - INNERDUCT 52'
- 10 1 - 2.00' - INNERDUCT 103'
- 11 1 - 2.00' - INNERDUCT 40'
- 12 1 - IDUCT-1.25'-RIB 86'

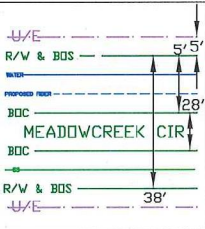
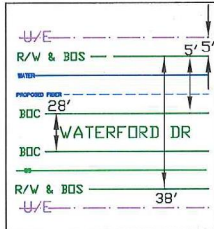
Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	*MATL	FNAP-CBL-024EUC	845C	DB007	750	0

1 PRINT 3

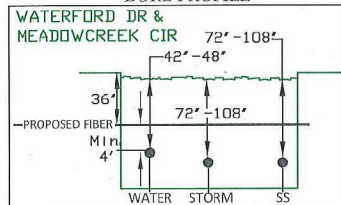
SS=700' TETHER IF=1.032 K.F.  
FNAP-CBL-024EUC 750 MATERIAL ONLY  
845C, 750' 1-12 650 BORE & PLACE ONE CAB  
PDM3748C, 37-48 155 PLACE ADDITIONAL CAB

TYPICAL PLAN PROFILE

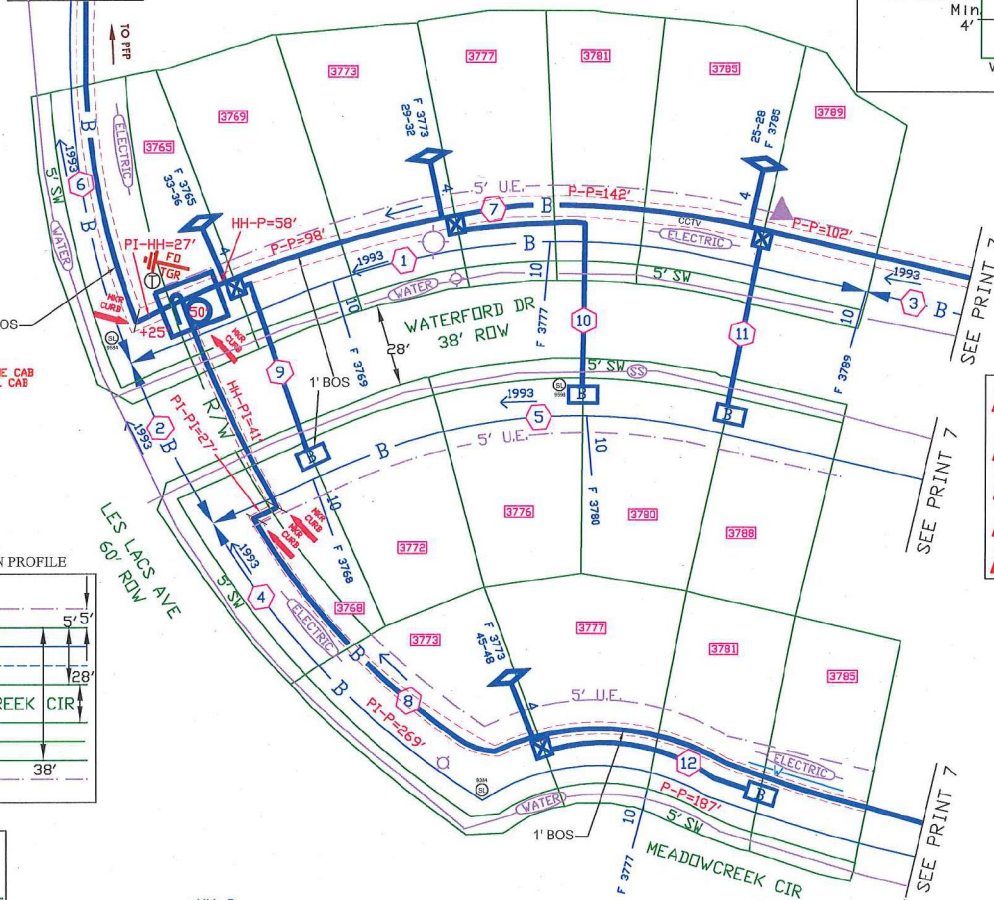
TYPICAL PLAN PROFILE



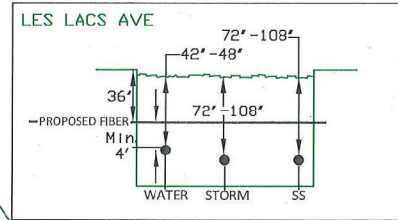
BORE PROFILE



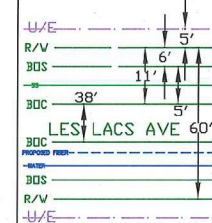
SEE PRINT 5



BORE PROFILE



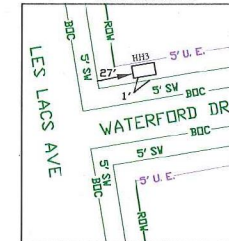
TYPICAL PLAN PROFILE



ENTIRE PRINT

- 3 845C INNERDUCT 155 EXEMPT MATERIAL ONLY 120 BORE & PLACE ONE CAB
- 4 845C IDUCT-1.25'-RIB 86 EXEMPT MATERIAL ONLY
- 5 4 PLACE PEDESTAL/APP C BROOKS CLOSURE
- 6 845C 4 PLACE PEDESTAL/APP C
- 7 4 PLACE CURB MARKER -

HH3 DETAIL



HH 3  
845C, DB007,  
17 X 30 X 34 10 cu.ft.

- 2 REMAINS 1 EXEMPT MATERIAL ONLY 1 PLACE HANDHOLE - NEW 1 PLACE GROUND FIELD

PLACE ALL PLANT WITHIN EXISTING RIGHT OF WAY

BOND & GROUND PER ATT - TELCO - 062-206-015 BURIED & UNDERGROUND

MAINTAIN 4' SEPARATION BETWEEN CABLE AND WATER/SEWER STAY 2' FROM WATER METER ON THE CUSTOMER SIDE

ADDITIONAL REC. REF.  
697-645-44-1  
697-645-44-3  
697-645-44-4

PPF PROJECT# A00Y6X

Engineer-James Jones  
Cell #(469)387-4685

SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK 1 TO 7

MFCR 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172E

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO OEDC - ONCOR ELECTRIC DELIVERY CO  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6S

TOT. PRINTS 15 PRINT NO. 6  
NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. DB007

GEO LOC. T78241

ENGR. JJK DRAWN BB

TELEPHONE NO. (972) 470-7234

REC. REF. 697-645-44-2

MAP REF. 14E, 13H

SCALE NONE

ISSUE DATE

PROJ TITLE LIGHTGIG-1172E-DIST-FB

REV. NUMBER 1

DATE REV. 02/21/2018

Not for use or disclosure outside the AT&T companies except under written agreement.

Existing Cables

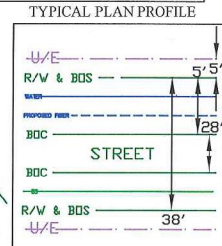
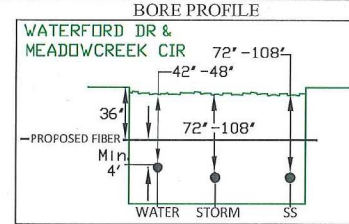
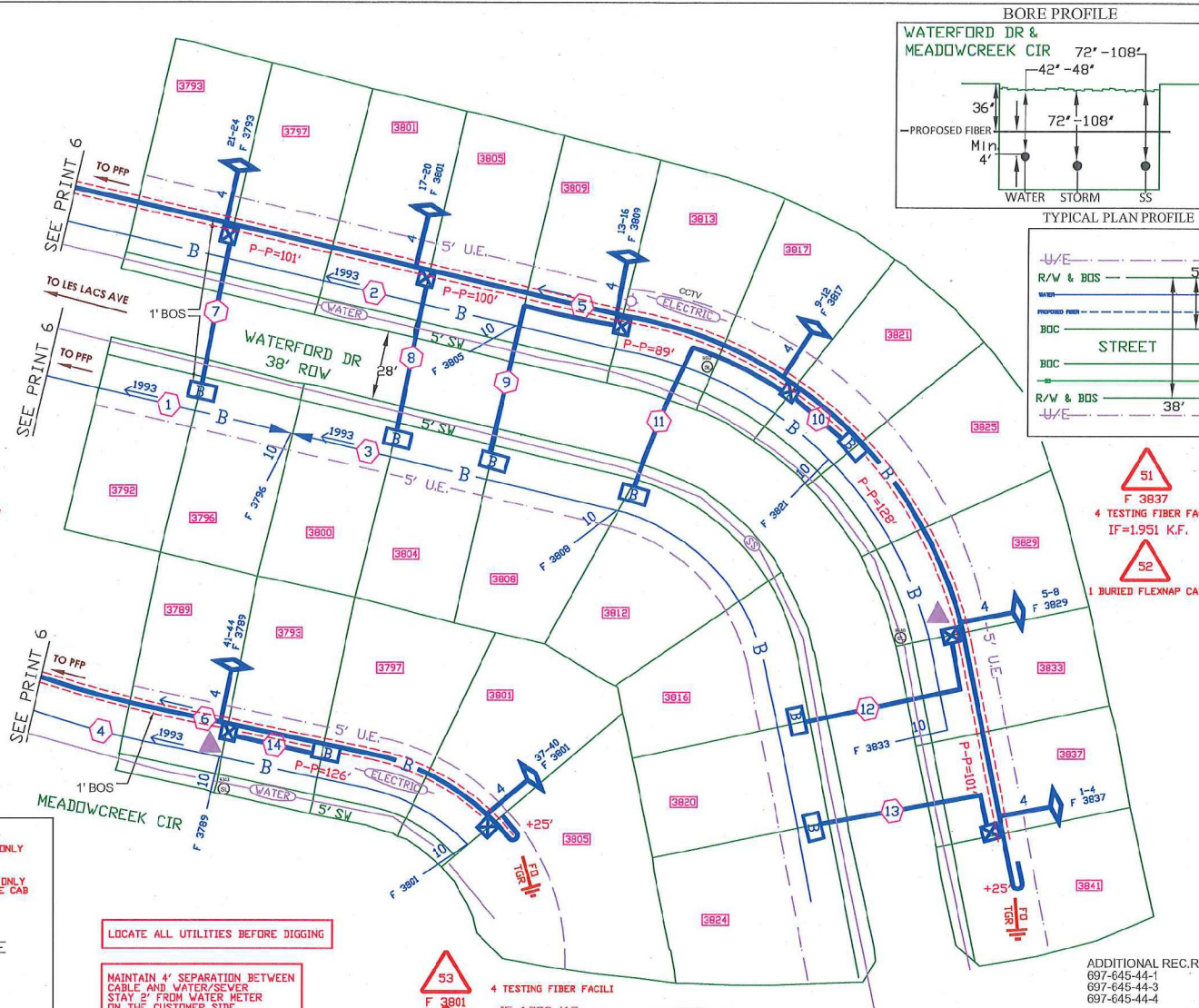
- 1 AFMW-50  
45M, 437', 1993  
3748C, 251-300
- 2 AFMW-25  
45M, 527', 1993  
3748C, 301-325
- 3 AFMW-25  
45M, 350', 1993  
3748C, 251-275
- 4 AFMW-25  
45M, 573', 1993  
3748C, 201-225

Proposed Cables

- 5 FNAP-CBL-144EUC  
(845C) 0' DF, 1-24  
PDN3748C, 1-120 **1 PRINT 3**
- 6 FNAP-CBL-024EUC  
(845C) 0' DF, 1-12  
PDN3748C, 37-48 **1 PRINT 6**
- 7 1 - 2.00' - INNERDUCT 40'
- 8 1 - 2.00' - INNERDUCT 40'
- 9 1 - 2.00' - INNERDUCT 90'
- 10 1 - IDUCT-1.5 41'
- 11 1 - 2.00' - INNERDUCT 98'
- 12 1 - 2.00' - INNERDUCT 73'
- 13 1 - 2.00' - INNERDUCT 58'
- 14 1 - 2.00' - INNERDUCT 49'

ENTIRE PRINT

- 1 8645C IDUCT-1.5  
41 EXEMPT MATERIAL ONLY
- 2 8645C INNERDUCT  
391 EXEMPT MATERIAL ONLY  
840 BORE & PLACE ONE CAB
- 3 8 PLACE PEDESTAL/APP C  
2 PLACE GROUND FIELD C  
BROOKS CLOSURE
- 4 8645C 8 PLACE PEDESTAL/APP C
- 5 2 PLACE CURB MARKER -



SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS  
TASK 1 TO 54  
MFR C 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO IUEC - ONCOR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6YS

TOT.PRINTS 15 PRINT NO. 7  
NPA/NNX: 972-241 PRT:972241  
EXCH. FARMERS BRANCH  
TAX DIST. DB007  
GEO LOC. TT8241  
ENGR. JJK DRAWN BB  
TELEPHONE NO. (972) 470-7234  
REC. REF. 697-645-44-2  
MAP REF. 14E, 13H  
SCALE NONE  
ISSUE DATE  
PROJ TITLE LIGHTGIG-1172LE-DIST-FB  
REV. NUMBER 1  
DATE REV. 02/21/2018

LOCATE ALL UTILITIES BEFORE DIGGING

MAINTAIN 4' SEPARATION BETWEEN  
CABLE AND WATER/SEWER  
STAY 2' FROM WATER METER  
ON THE CUSTOMER SIDE

- 53 4 TESTING FIBER FACILI  
F 3801 IF=1.732 K.F.
- 54 1 BURIED FLEXNAP CABLE

PLACE ALL  
PLANT WITHIN  
EXISTING  
RIGHT OF WAY

BOND & GROUND PER  
ATT - TELCO - 002-206-015  
BURIED & UNDERGROUND

FFP PROJECT#  
A00Y6YX  
Engineer-James Jones  
Cell # (469) 387-4885

Existing Cables

- 1 AFMW-25  
45M, 409', 1993  
3748C, 401-425
- 2 AFMW-25  
45M, 0', 1993  
3748C, 351-375

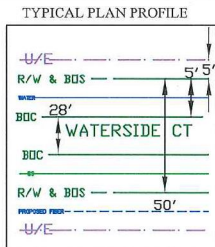
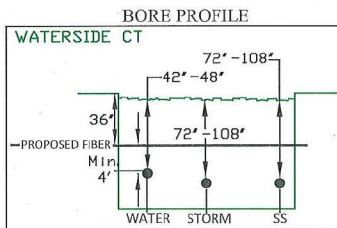
Proposed Cables

- 3 FNAP-CBL-048EUC  
845C, 0',  
12' IF, 1-12  
PDM3748C, 49-64
- PRINT 5

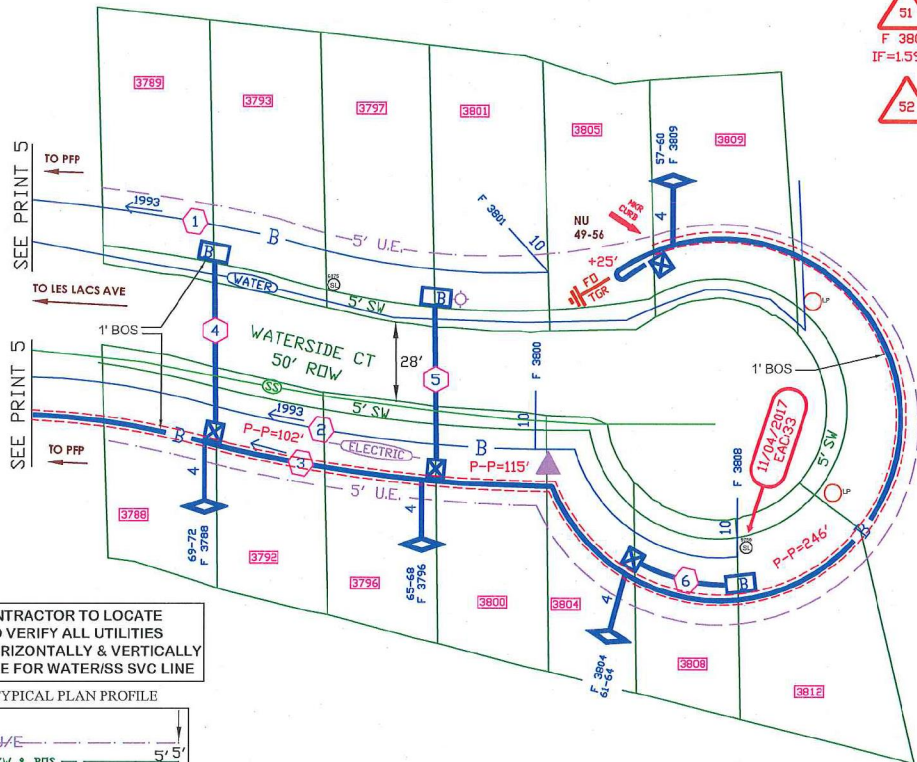
- 4 - 2.00' - INNERDUCT 40'
- 5 - 2.00' - INNERDUCT 40'
- 6 - IDUCT-1.25'-RIB 56'

ENTIRE PRINT

- 1 8645C INNERDUCT  
88 EXEMPT MATERIAL ONLY  
89 BORE & PLACE ONE CAB
- 2 8645C IDUCT-1.25'-RIB  
56 EXEMPT MATERIAL ONLY
- 3 4 PLACE PEDESTAL/APP C  
1 PLACE GROUND FIELD C
- 4 8645C 4 PLACE PEDESTAL/APP C
- 5 2 PLACE CURB MARKER -



CONTRACTOR TO LOCATE AND VERIFY ALL UTILITIES BOTH HORIZONTALLY & VERTICALLY POTHOLE FOR WATER/SS SVC LINE



- 51 4 TESTING FIBER FACILI  
F 3809  
IF=1.594 K.F.
- 52 1 BURIED FLEXNAP CABLE

PLACE ALL PLANT WITHIN EXISTING RIGHT OF WAY

- BOND & GROUND PER ATT - TELCO - 002-206-015 BURIED & UNDERGROUND
- MAINTAIN 4" SEPARATION BETWEEN CABLE AND WATER/SEWER STAY 2' FROM WATER METER ON THE CUSTOMER SIDE
- LOCATE ALL UTILITIES BEFORE DIGGING

ADDITIONAL REC. REF.  
697-645-44-1  
697-645-44-3  
697-645-44-4

PEP PROJECT# A00Y6X

Engineer-James Jones  
Cell # (469)367-4685

SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS  
TASK 1 TO 52  
MFCR 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO UEDC - UNICOR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6XS

TOT.PRINTS 15 PRINT NO. 8  
NPA/NNX: 972-241 PRT:972241  
EXCH. FARMERS BRANCH  
TAX DIST. DB007  
GEO LOC. TT8241  
ENGR. JJK DRAWN BB  
TELEPHONE NO. (972) 470-7234  
REC. REF. 697-645-44-2  
MAP REF. 14E, 13H  
SCALE NONE  
ISSUE DATE  
PROJ TITLE LIGHTGIG-1172LE-DIST-FB  
REV. NUMBER 1  
DATE REV. 02/21/2018

Not for use or disclosure outside the AT&T companies except under written agreement.

Existing Cables

- 1 AFHW-25  
45M, 406' 1993  
3748C, 601-625
- 2 AFHW-25  
45M, 0' 1993  
3748C, 451-475

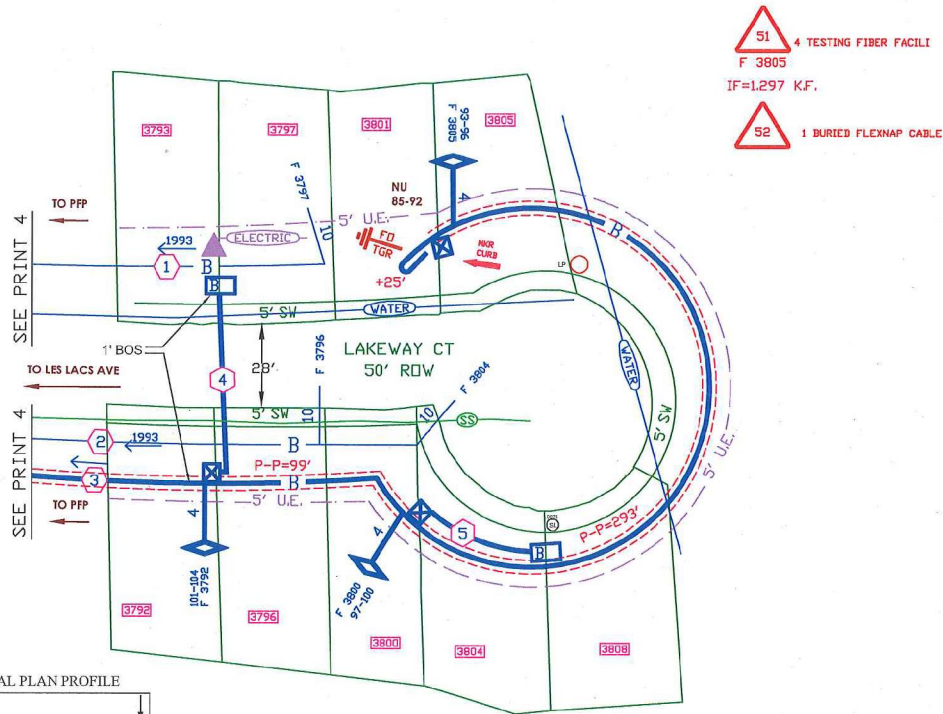
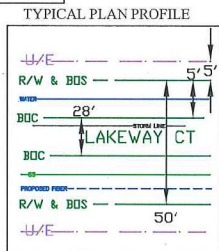
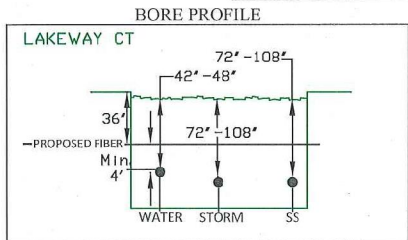
Proposed Cables

- 3 FNAP-CBL-048EUC  
645C, 0'  
DF, 1-12  
PON3748C, 85-120
- 4 1 - 2.00' - INNERDUCT 49'
- 5 1 - IDUCT-1.25'-RIB 73'

ENTIRE PRINT

- 1 8645C IDUCT-1.25'-RIB  
73 EXEMPT MATERIAL ONLY
- 2 8645C INNERDUCT  
49 EXEMPT MATERIAL ONLY  
40 BORE & PLACE ONE CAB
- 3 3 PLACE PEDESTAL/APP C  
1 PLACE GROUND FIELD C
- BROOKS CLOSURE
- 4 8645C 3 PLACE PEDESTAL/APP C
- 5 1 PLACE CURB MARKER -

CONTRACTOR TO LOCATE  
AND VERIFY ALL UTILITIES  
BOTH HORIZONTALLY & VERTICALLY  
POTHOLE FOR WATER/SS SVC LINE



- 51 4 TESTING FIBER FACILI  
F 3805  
IF=1.297 K.F.
- 52 1 BURIED FLEXNAP CABLE

36"

BOND & GROUND PER  
ATT - TELCO - 002-206-015  
BURIED & UNDERGROUND

MAINTAIN 4' SEPARATION BETWEEN  
CABLE AND WATER/SEWER  
STAY 2' FROM WATER METER  
ON THE CUSTOMER SIDE

LOCATE ALL UTILITIES BEFORE DIGGING

PLACE ALL  
PLANT WITHIN  
EXISTING  
RIGHT OF WAY

ADDITIONAL REC. REF.  
697-645-44-1  
697-645-44-3  
697-645-44-4

PF# PROJECT#  
A00X6X

Engineer-James Jones  
Cell #(469)387-4685

SPECIAL CIRCUITS	N	<p>NORTH ARROW</p>
6203 FORWARDED	N	
PERMIT REQUIRED	Y	
OPERATING RANGE OF JOB STEPS		
TASK	1	TO 52
MFR# 845C		
TRANSMISSION ZONE		
RZ	0	CZ 0 TAPER CODE 1172LE
CAUTION HIGH VOLTAGE		
KV	7.20	AERIAL N BURIED Y
HIGHWAY PERMIT NO.		
Utility CO DEIC - ONCOR ELECTRIC DELIVERY C		
REP NAME		
REP TEL NO. (888) 313-6862		
POLE CONTACTS (+) 0 (-) 0		
Utility CO		
REP NAME		
REP TEL NO.		
POLE CONTACTS (+) 0 (-) 0		
Utility CO		
REP NAME		
REP TEL NO.		
POLE CONTACTS (+) 0 (-) 0		
PROJECT NO A00Y6X		
TOT. PRINTS	15	PRINT NO. 9
NPA/NNX:	972-241	PRT: 972241
EXCH. FARMERS BRANCH		
TAX DIST. DB007		
GEO LOC. TT8241		
ENGR.	JJX	DRAWN BB
TELEPHONE NO. (972) 470-7234		
REC. REF. 697-645-44-2		
MAP REF. 14E, 13H		
SCALE NONE		
ISSUE DATE		
PROJ TITLE LIGHTGIG-1172LE-DIST-FB		
REV. NUMBER 1		
DATE REV. 02/21/2018		

Existing Cables

- 1 AFNV-100  
45M 195' 1952  
3748C, 101-175  
A, 76-100

Proposed Cables

- 2 FNAP-CBL-048EUC  
843C, 0  
PON3748C, 121-168

PRINT 3

- 3 1 - INDUCT-1.5 40'
- 4 1 - 2.00' - INNERDUCT 65'
- 5 1 - 2.00' - INNERDUCT 45'
- 6 1 - 2.00' - INNERDUCT 45'
- 7 1 - 2.00' - INNERDUCT 87'
- 8 1 - INDUCT-1.25'-RIB 29'
- 9 1 - INDUCT-1.25'-RIB 76'

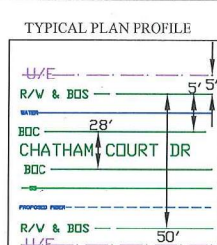
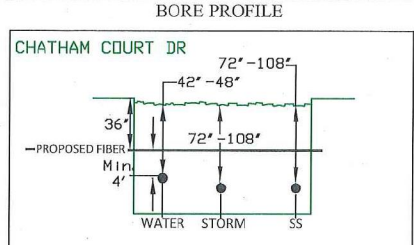
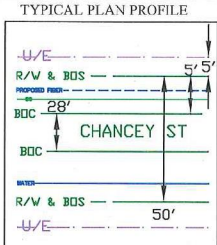
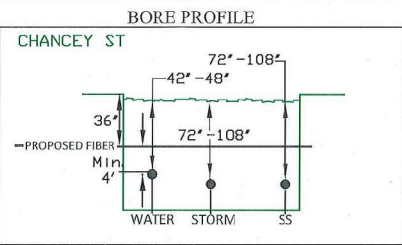
ENTIRE PRINT

- 1 8645C INDUCT-1.25'-RIB  
105 EXEMPT MATERIAL ONLY
- 2 8645C INDUCT-1.5  
40 EXEMPT MATERIAL ONLY
- 3 8645C INNERDUCT  
242 EXEMPT MATERIAL ONLY
- 4 5 PLACE PEDESTAL/APP C  
BROOKS CLOSURE
- 5 8645C 7 PLACE PEDESTAL/APP C
- 6 1 PLACE CURB MARKER -

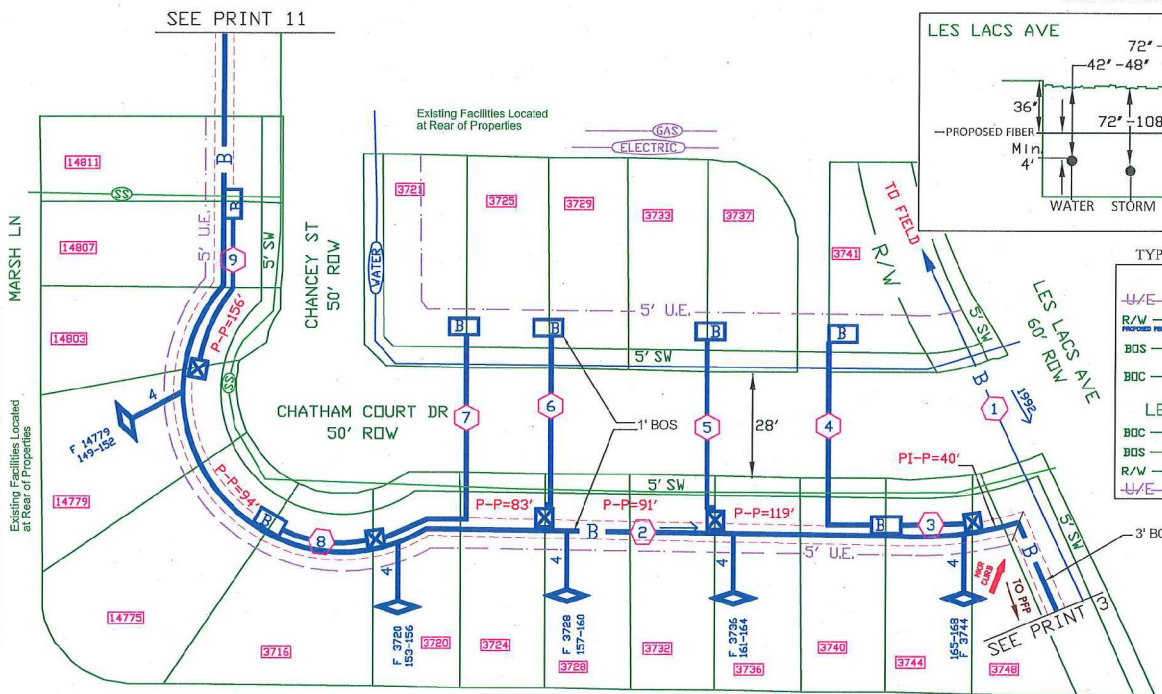
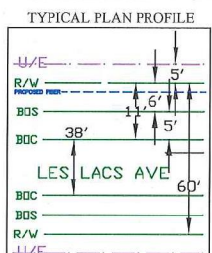
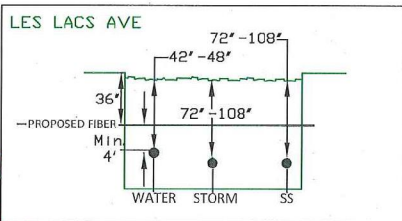
36"

PLACE ALL  
PLANT WITHIN  
EXISTING  
RIGHT OF WAY

BOND & GROUND PER  
ATT - TELCO - 002-206-015  
BURIED & UNDERGROUND



BORE PROFILE



LOCATE ALL UTILITIES BEFORE DIGGING

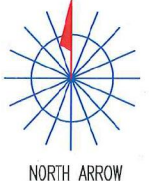
MAINTAIN 4" SEPARATION BETWEEN  
CABLE AND WATER/SEWER  
STAY 2" FROM WATER METER  
ON THE CUSTOMER SIDE

ADDITIONAL REC. REF.  
697-645-44-1  
697-645-44-3  
697-645-44-4

FFP PROJECT#  
A00Y6X

Engineer-James Jones  
Cell #(469)387-4685

SPECIAL  
CIRCUITS N  
6203  
FORWARDED N  
PERMIT  
REQUIRED Y



OPERATING RANGE OF JOB STEPS  
TASK 1 TO 6  
MFRC 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE  
CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y  
HIGHWAY PERMIT NO.

Utility CO DEDC - DODOR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6XS

TOT.PRINTS 15 PRINT NO.10  
NPA/NNX: 972-241 PRT:972241  
EXCH. FARMERS BRANCH  
TAX DIST. DB007  
GEO LOC. TT8241  
ENGR. JJX DRAWN BB  
TELEPHONE NO. (972) 470-7234  
REC. REF. 697-645-44-2  
MAP REF. 14E, 13H  
SCALE NONE  
ISSUE DATE  
PROJ TITLE LIGHTGIG-1172LE-DIST-FB  
REV. NUMBER 1  
DATE REV. 02/21/2018



**Existing Cables**

- 1 AFMW-25  
45M, 259', 1993  
3748C, 551-575
- 2 AFMW-50  
45M, 375', 1993  
3748C, 501-550
- 3 AFMW-100  
45M, 163', 1993  
3748C, 501-600
- 4 AFMW-25  
45M, 314', 1993  
3748C, 501-525
- 5 AFMW-50  
45M, 290', 1993  
3748C, 551-600
- 6 SB02MT-024  
845M 232', 2007  
A, 415-420  
FB011, 409-414  
A, 13-16  
A, 17-24

**Proposed Cables**

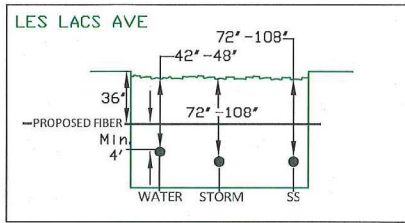
- 7 FNAP-CBL-048EUC  
845C, 0',  
1F, 1-12  
PDN3748C, 169-204
- 8 1 - 2.00' - INNERDUCT 87'
- 9 1 - 2.00' - INNERDUCT 40'
- 10 1 - 2.00' - INNERDUCT 40'

3 PRINT 3

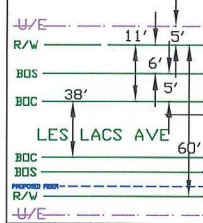
**ENTIRE PRINT**

- 1 8645C INNERDUCT  
167 EXEMPT MATERIAL ONLY  
120 BORE & PLACE ONE CAB
- 2 3 PLACE PEDESTAL/APP C  
BROOKS CLOSURE
- 3 8645C 3 PLACE PEDESTAL/APP C

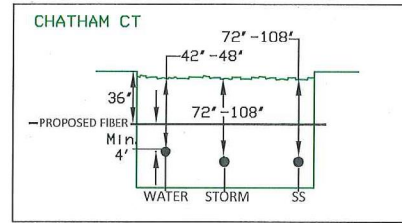
**BORE PROFILE**



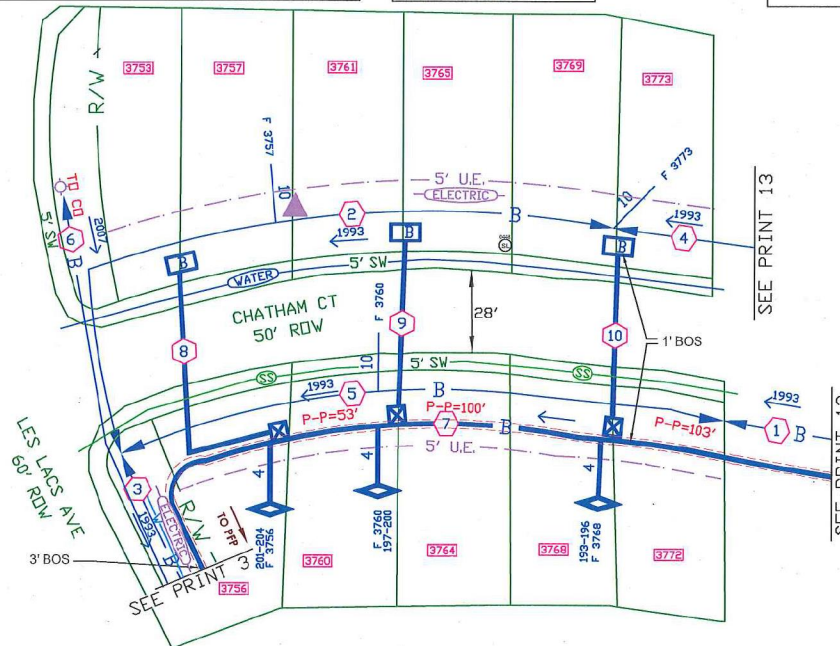
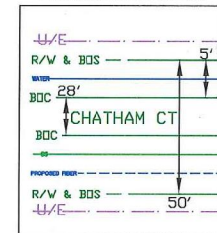
**TYPICAL PLAN PROFILE**



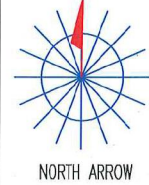
**BORE PROFILE**



**TYPICAL PLAN PROFILE**



SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK 1 TO 3

MFR 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEC - ENOR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6S

TOT.PRINTS 15 PRINT NO.12  
NPA/NNX: 972-241 PRT:972241

EXCH. FARMERS BRANCH

TAX DIST. DB007

GEO LOC. TT8241

ENGR. JJX DRAWN BB

TELEPHONE NO. (972) 470-7234

REC. REF. 697-645-44-2

MAP REF. 14E, 13H

SCALE NONE

ISSUE DATE

PROJ TITLE LIGHTGIG-1172LE-DIST-FB  
REV. NUMBER 1

DATE REV. 02/21/2018

ADDITIONAL REC. REF.  
697-645-44-1  
697-645-44-3  
697-645-44-4

FFP PROJECT#  
A00Y6X

Engineer-James Jones  
Cell #(469)387-4685

LOCATE ALL UTILITIES BEFORE DIGGING

PLACE ALL  
PLANT WITHIN  
EXISTING  
RIGHT OF WAY

MAINTAIN 4' SEPARATION BETWEEN  
CABLE AND WATER/SEWER  
STAY 2' FROM WATER METER  
ON THE CUSTOMER SIDE

CONTRACTOR TO LOCATE  
AND VERIFY ALL UTILITIES  
BOTH HORIZONTALLY & VERTICALLY  
POTHOLE FOR WATER/SS SVC LINE

BOND & GROUND PER  
ATT - TELCO - 009-206-015  
BURIED & UNDERGROUND

--Proprietary--

Not for use or disclosure outside the AT&T companies except under written agreement.



**Existing Cables**

- 1 AFMV-25 45M, 259', 1993 3748C, 551-575
- 2 AFMV-25 45M, 314', 1993 3748C, 501-525

**Proposed Cables**

- 3 FNAP-CBL-048EUC 845CJ 0' 1-12 PDN3748C, 169-204 **PRINT 3**
- 4 - 2.00' - INNERDUCT 40'
- 5 - 2.00' - INNERDUCT 40'
- 6 - 2.00' - INNERDUCT 40'
- 7 - IDUCT-1.25'-RIB 105'

**ENTORE PRINT**

- 1 8645C INNERDUCT 150 EXEMPT MATERIAL ONLY 150 BORE & PLACE ONE CAB
- 2 8645C IDUCT-1.25'-RIB 105 EXEMPT MATERIAL ONLY 105 BORE & PLACE ONE CAB
- 3 4 PLACE PEDESTAL/APP C 1 PLACE GROUND FIELD C BROOKS CLOSURE
- 4 8645C 4 PLACE PEDESTAL/APP C
- 5 1 PLACE CURB MARKER -

36'

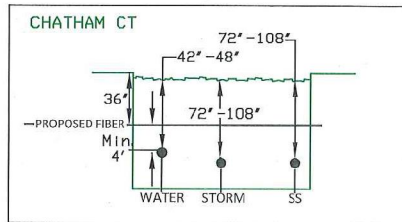
PLACE ALL PLANT WITHIN EXISTING RIGHT OF WAY

LOCATE ALL UTILITIES BEFORE DIGGING

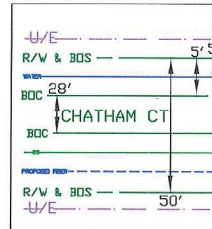
MAINTAIN 4' SEPARATION BETWEEN CABLE AND WATER/SEWER STAY 2' FROM WATER METER IN THE CUSTOMER SIDE

BOND & GROUND PER ATT - TELCO - 002-206-015 BURIED & UNDERGROUND

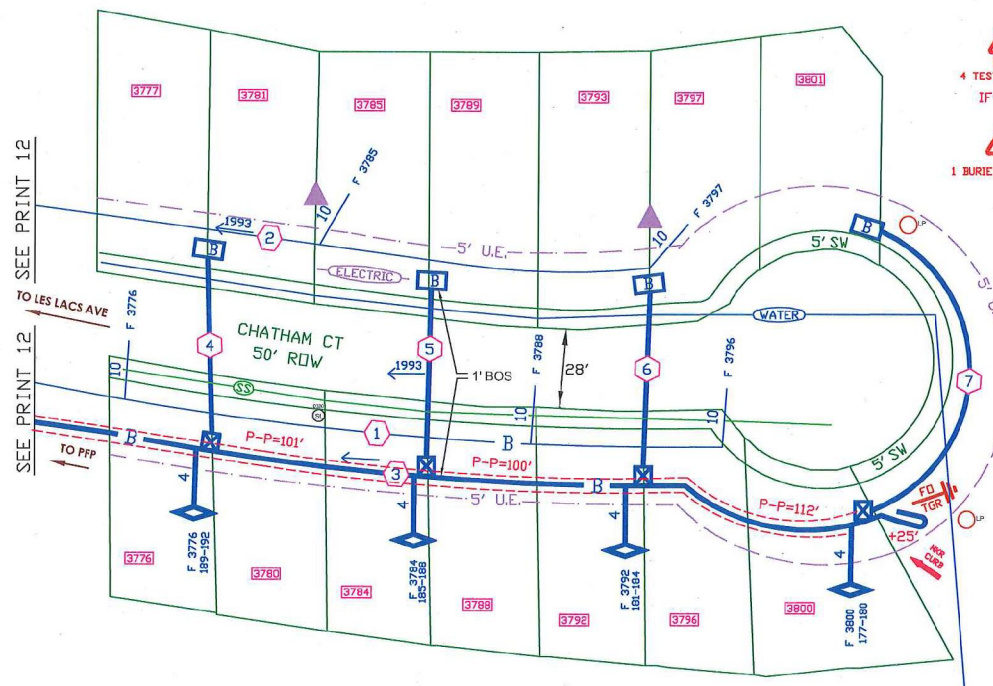
**BORE PROFILE**



**TYPICAL PLAN PROFILE**



CONTRACTOR TO LOCATE AND VERIFY ALL UTILITIES BOTH HORIZONTALLY & VERTICALLY POT HOLE FOR WATER/SS SVC LINE



**S1**  
F 3800  
4 TESTING FIBER FACILI  
IF=948 K.F.

**S2**  
1 BURIED FLEXNAP CABLE

SEE PRINT 12  
TO LES LACS AVE  
TO PFP

---Proprietary---  
Not for use or disclosure outside the AT&T companies except under written agreement.

SPECIAL CIRCUITS N  
6203 FORWARDED N  
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK 1 TO 52

MFCR 845C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - INDIR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6852  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6YS

TOT.PRINTS 15 PRINT NO.13  
NPA/NNX: 972-241 PRT:972241

EXCH. FARMERS BRANCH  
TAX DIST. DBC07  
GEO LOC. TT8241  
ENGR. JJX DRAWN BB  
TELEPHONE NO. (972) 470-7234  
REC. REF. 697-645-44-2  
MAP REF. 14E, 13H  
SCALE NONE

ISSUE DATE  
PROJ TITLE LIGHTGIG-1172LE-DIST-FB  
REV. NUMBER 1  
DATE REV. 02/21/2018

ADDITIONAL REC.REF.  
697-645-44-1  
697-645-44-3  
697-645-44-4

PEP PROJECT# A00Y6X

Engineer-James Jones  
Cell #(469)387-4685

OSA/PSA:		1172LE			
<b>Optical Link Budgets - 1:32</b>					
				Loss	Loss
				1310	1490
	CO/CO Vault Loss	"A" through "L"		-1.98	-1.98
	F1 Loss Through Coupler	M, N, O,P		-17.80	-17.80
	F2 Loss to ONT	Q,R,S,T,U,V,W,X,Y		-1.25	-1.45
	Fixed Loss			-21.03	-21.23
		Enter in Kilofeet			
	Feeder Fiber Length Loss	25.658		-3.13	-2.35
	Splice Loss for Feeder			-0.48	-0.48
	Total Feeder Fiber Loss			-3.61	-2.83
	Total Loss			-24.64	-24.05
	Total Budget			29.00	26.00
	Remaining Budget			4.36	1.95
	Total F2 Length			35.72	21.25
	Allowable F2 Less Drop Length			35.22	20.75
	Total F2 Length in Kft for your design			1.951	
	<b>Note: Total length F1 plus F2 can not exceed 43.0 Kft</b>				
	Total F1 + F2 Length			27.609	
	EML - CO To PFP			1490nm	-22.60
	EML - PFP To CO			1310nm	-23.39
	EML - F2 Worse Case			1490nm	-1.636814
				1310nm	-1.5115396

--Proprietary--  
Not for use or disclosure outside the AT&T companies except under written agreement.

SPECIAL  
CIRCUITS N  
6203  
FORWARDED N  
PERMIT  
REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_\_ TO \_\_\_\_\_

MFRC 045C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - ONCOR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6YS

TOT.PRINTS 15 PRINT NO. 14  
NPA/NNX: 972-241 PRT:972241

EXCH. FARMERS BRANCH

TAX DIST. DB007

GEO LOC. TT8241

ENGR. JJK DRAWN BB

TELEPHONE NO. (972) 470-7234

REC. REF. 697-645-44-2

MAP REF. 14E, 13H

SCALE NONE

ISSUE DATE

PROJ TITLE LIGHTGIG-1172LE-DIST-FB

REV. NUMBER 1

DATE REV. 02/21/2018

## F2 LIGHTGIG CHECKLIST

- F2 CABLE DESIGNATION MATCHES PFP
- FIELD VISIT
- PLOPS HAVE '+' IN SPEC
- TRIGGER TASK 'E' MATCH DA
- BONDING AND GROUNDING
- COPPER TERMINALS (FACILITY ADDRESS BLANK OR EXISTING)
- DO NOT EXPLODE COUNTS
- DCALC AND HOA ON NEW STRAND PLACEMENT ONLY
- QUALITY

SPECIAL  
CIRCUITS N

6203  
FORWARDED N

PERMIT  
REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK \_\_\_\_\_ TO \_\_\_\_\_

MFRC 045C

TRANSMISSION ZONE  
RZ 0 CZ 0 TAPER CODE 1172LE

CAUTION HIGH VOLTAGE  
KV 7.20 AERIAL N BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEJC - DDCR ELECTRIC DELIVERY C  
REP NAME  
REP TEL NO. (888) 313-6862  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

Utility CO  
REP NAME  
REP TEL NO.  
POLE CONTACTS (+) 0 (-) 0

PROJECT NO A00Y6YS

TOT. PRINTS 15 PRINT NO. 15  
NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. D8007

GEO LOC. TT8241

ENGR. JJX DRAWN BB

TELEPHONE NO. (972) 470-7234

REC. REF. 697-645-44-2

MAP REF. 14E, 13H

SCALE NONE

ISSUE DATE

PROJ TITLE LIGHTGIG-1172LE-DIST-FB

REV. NUMBER 1

DATE REV. 02/21/2018

--Proprietary--

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