

**STANDARD UTILITY AGREEMENT
ACTUAL COST**

Limits of Project: Belt Line Road from Marsh Lane to Midway Road

This Agreement by and between the Town of Addison, Texas ("Town"), and acting by and through the Town Council, and Southwestern Bell Telephone Company d/b/a AT&T Texas., acting by and through its duly authorized representative, ("Utility"), shall be effective on the date of approval and execution by and on behalf of the Town.

WHEREAS, the Town has determined that it is necessary to make certain roadway and utility improvements in the public roadway system, which said changes are generally described as follows: undergrounding of all overhead utilities on Belt Line Road.

WHEREAS, these proposed roadway and utility improvements will necessitate the adjustment, removal, and/or relocation of certain facilities of Utility as indicated in the following statement of work: Relocation of aerial utilities to underground along Belt Line Road from Marsh Lane to Midway Road and such work is shown in more detail in Utility's plans, specifications and estimated costs, which are attached hereto as Attachment "A" ("statement of work"). Town of Addison agrees to contract and compensate for the construction of the facility; obtaining PVC and handholes from an AT&T approved vendor and the pulling of the cable; Inspection Services of Owners utilities and proposed adjustments. AT&T agrees to provide the design of said relocations, materials, and splicing/service connections with reimbursement from Town of Addison.

WHEREAS, the Town will participate in the costs of the adjustments, removal, and/or relocation of certain facilities as described above in the statement of work to the extent as may be eligible for State and/or Federal participation.

WHEREAS, the Town, upon receipt of evidence it deems sufficient, acknowledge Utility's interest in certain lands and/or facilities that entitle it to reimbursement for the adjustment, removal, and relocation of certain of its facilities as described above in the statement of work located upon the lands as indicated in the statement of work above.

NOW, THEREFORE, BE IT AGREED:

The Town will pay to Utility the costs incurred in adjustment, removal, and/or relocation of Utility's facilities as described above in the statement of work up to the amount of Actual Cost, as provided herein.

The Utility agrees that all conduct under this agreement, including but not limited to the adjustment, removal and relocation of the facility, the development and reimbursement of costs, any environmental requirements, and retention of records will be in accordance with 23 CFR 645, Subparts A & B, as highlighted, and applicable federal and State laws, rules and regulations. Utility agrees to supply, upon request by the Town, proof of compliance with the aforementioned laws, rules and regulations prior to the commencement of construction.

The Utility hereby requests and the Town hereby agrees to retain an approved AT&T Contractor ("Contractor") to perform the Construction necessary to include the adjustment, removal and/ or relocation of Utility's facilities including abandonment, removals and/or retirements and hereby agrees to perform such construction, with the exception of splicing work performed by the Utility. All construction work

hereunder shall be performed by the Contractor in a good and workmanlike manner, and in accordance with the Plans, the standard specifications, standards of practice, and construction methods, including, without limitation, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act, 42 U.S.C. §§ 4601, et seq., the National Environmental Policy Act, 42 U.S.C. §§ 4231, et seq., the Buy America provisions of 23 U.S.C. § 313 and 23 CFR 635.410, the Utility Relocations, Adjustments, and Reimbursements provisions of 23 CFR 645, Subpart A, and with the Utility Accommodation provisions of 23 CFR 645, Subpart B., (collectively, "Standards") which the **Utility** customarily applies. Contractor shall supply all Handholes, SCH 40 PVC, and Innerduct. AT&T shall supply all cable materials to the Contractor.

Throughout the adjustment construction, the **Town** shall retain and provide AT&T approved inspectors for such construction, and the construction work shall be inspected as necessary for prudent installation.

The **Utility** shall accept construction if it is consistent with the performance standards by giving written notice of such acceptance to the **Town**. The **Utility** agrees to develop relocation or adjustment costs for the work described above in the statement of work by accumulating actual direct and related indirect costs in accordance with a work order accounting procedure prescribed by **Town**, or may, with the **Town's** approval, accumulate actual direct and related indirect costs in accordance with an established accounting procedure developed by **Utility**. Bills for work hereunder will be submitted to **Town** not later than 90 days after completion of work.

When requested, the **Town** will make intermediate payments at not less than monthly intervals to **Utility** when properly billed and such payments will not exceed eighty percent (80%) of the eligible cost as shown in each such billing. In addition, if intermediate payments are made, the **Town** will make a payment, before audit, which will bring the total percentage paid to the **Utility** up to ninety percent (90%) eligible costs. Intermediate payments shall not be considered final payment for any listed items.

Alternatively, at the **Town's** option, **Town** agrees to pay **Utility** an agreed lump sum as \$N/A supported by the attached estimated costs. The **Town** will, upon satisfactory completion of the adjustments, removals, and/or relocations and upon receipt of a final billing, make payment to **Utility** in the agreed amount.

Upon execution of this agreement by both parties, the **Town** will, by written notice at the time deemed appropriate by the **Town**, authorize the **Utility** to perform such work diligently, and to conclude said adjustment, removal, or relocation by the stated completion date. The completion date shall be extended for delays caused by events outside **Utility's** control, including an event of Force Majeure, which shall include a strike, war or act of war (whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, accident, fire, flood or another act of God, sabotage, or other events, interference by the **Town** or any other party with **Utility's** ability to proceed with the relocation, or any other event in which **Utility** has exercised all due care in the prevention thereof so that the causes or other events are beyond the control and without the fault or negligence of **Utility**.

The **Town** will, upon satisfactory completion of the relocation or adjustment work as described above in the statement of work and upon receipt of final billing prepared in an approved form and manner, make payment in the amount of ninety percent (90%) of the eligible costs as shown in the final billing prior to audit and after such audit shall make an additional final payment totaling the reimbursement amount found eligible for county reimbursement.

Unless an item is stricken and initialed by the **Town** and **Utility**, this agreement in its entirety consists of the following:

1. This Standard Utility Agreement (Actual Cost);

2. Plans, Specifications, and Estimates Costs (Attachment "A");
3. Utility's Accounting Method (Attachment "B");
4. Utility's Schedule of Work and Estimated Date of Completion (Attachment "C");
5. Betterment Calculation and Estimates (Attachment "D");
6. 23 CFR 645, Subpart A, highlighted (Attachment "E")

All attachments are included herein as if fully set forth. In the event it is determined that there is a change from the statement of work contained in this agreement is required, reimbursement therefor shall be limited to costs covered by a modification or amendment of this agreement or a written change or extra work order approved by the **Town** and **Utility**.

This agreement is subject to cancellation by the **Town** at any time up to the date that work under this agreement has been authorized by **Town**. Such cancellation will not create any liability on the part of the **Town**. However, the **Town** will review and reimburse the **Utility** for eligible costs incurred by the **Utility** in preparation of this agreement. Upon such cancellation, the parties shall negotiate in good faith an amendment to this agreement that shall provide mutually acceptable terms and conditions for resolving unfinished construction work in a quick and efficient manner so as not to affect public convenience, safety and welfare.

The **Town** may conduct an audit or investigation of any entity receiving funds from the **Town** directly under this agreement or indirectly through a subcontract under this contract. Acceptance of funds directly under this agreement or indirectly through a subcontract under this agreement acts as acceptance of the authority of the **Town**, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the **Town** with access to any information the **Town** considers relevant to the investigation or audit.

Neither the **Utility** nor the **Town**, by execution of this agreement, waives any rights or remedies to which **Utility** or **Town**, as applicable, may have within the limits of the law, in equity, or otherwise.

It is expressly understood that the **Utility** is an independent contractor and conducts the adjustment, removal, or relocation work as described above in the statement of work at its own risk, and that the **TOWN** makes no warranties or representations regarding the existence or location of utilities or other property currently within its rights of way.

Notwithstanding any other provision of this agreement, nothing in this agreement shall or may be deemed to be, or shall or may be construed to be, a waiver or relinquishment of any immunity, defense, or tort limitation to which **Town**, its officials, officers, employees, representatives, and agents are or may be entitled, including, without limitation, any waiver of immunity to suit.

This agreement represents the entire and integrated agreement between **Utility** and **Town** with regard to the matters set forth herein and supersedes all prior negotiations, representations and/or agreements, either written or oral. Any amendment or modification of this Agreement must be in writing and signed by authorized representatives of **Utility** and **Town**.

This agreement and performance hereunder shall be governed by and construed in accordance with the laws of the State of Texas, without regard to choice of laws rules of any jurisdiction. Any and all suits, actions or legal proceedings relating to this Agreement shall be maintained in the state or federal courts of Dallas County, Texas, which courts shall have exclusive jurisdiction for such purpose.

The signatories to this agreement warrant that each has the authority to enter into this agreement on behalf of the party represented.

TOWN OF ADDISON, TEXAS

Charles Daniels, Interim City Manager

Acting by and through the authority of the Town
of Addison Council

Attest:

Chelsea Gonzalez, City Secretary

Approved as to Form:

Brenda N. McDonald

UTILITY

Southwestern Bell Telephone Company d/b/a
AT&T Texas

By: 
(Authorized Signature)

Print or Typed Name

Jarred Whittington

Title: Director-Construction & Engineering

Date: 8/3/2015

AUDITOR'S CERTIFICATE

I hereby certify that funds are available in the amount of \$ _____ to accomplish and pay the obligation of the Town of Addison under this contract.

Town of Addison Auditor

ATTACHMENT A
Utility Plans, Specifications and Estimated Cost

Plan & Profile Drawings

Included--see attached 11" x 17" sheets

Specifications

Included--see attached sheets

Estimated Cost

Included--see attached 8-1/2" x 11" sheets

<i>AT&T Project 9478969 CWOTs 546T14</i>	
SUMMARY	
MATERIAL COSTS:	39,455.89
CONTRACTOR COSTS:	11,039.00
AT&T LABOR COSTS:	59,748.44
CORPORATE OVERHEAD:	35,478.03
GRAND TOTAL:	145,721.36
ELIGIBILITY RATIO:	100.00%
ELIGIBLE REIMBURSEMENT TOTAL:	145,721.36

<i>AT&T Project 9478969 CWOTs 546T14</i>	
SUMMARY	
AT&T LABOR COSTS:	59,748.44
59.379% INCR LABOR LOADINGS	35478.03

<i>AT&T Project 9483664 CWOTs 545T14</i>	
SUMMARY	
MATERIAL COSTS:	2,117.67
CONTRACTOR COSTS:	5,394.00
AT&T LABOR COSTS:	15,381.38
CORPORATE OVERHEAD:	9,133.31
GRAND TOTAL:	32,026.36
ELIGIBILITY RATIO:	100.00%
ELIGIBLE REIMBURSEMENT TOTAL:	32,026.36

<i>AT&T Project 9483664 CWOTs 545T14</i>	
SUMMARY	
AT&T LABOR COSTS:	15,381.38
59.379% INCR LABOR LOADINGS	9133.31

<i>TOTAL PROJECT COSTS</i>	
SUMMARY	
MATERIAL COSTS:	41,573.56
CONTRACTOR COSTS:	16,433.00
AT&T LABOR COSTS:	75,129.82
CORPORATE OVERHEAD:	44,611.34
GRAND TOTAL:	177,747.72
ELIGIBILITY RATIO:	100.00%
ELIGIBLE REIMBURSEMENT TOTAL:	177,747.72

7/31/2015

AT&T -RELOCATION COST ESTIMATE COST
AT&T Project 9478969 CWOTs 546T14

A. CONSTRUCTION LABOR AND EQUIPMENT COST

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
			CONSTRUCTION COST TOTAL	\$0.00	\$0.00

B. MATERIAL & SUPPLIES

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
UG FIBER 24	521	FT	0.35	\$182.35	
AERIAL FIBER 24	1805	FT	0.31	\$559.55	
DGUY 6.M	3	EA	22.00	\$66.00	
ANC-EXP 3/4	2	EA	37.13	\$74.26	
UG COPPER 400	361	FT	5.49	\$ 1,981.89	
UG COPPER 25	169	FT	0.51	\$ 86.19	
BURIED COPPER 300	60	FT	5.15	\$ 309.00	
BURIED COPPER 25	432	FT	0.73	\$ 315.36	
UG COPPER 50	194	FT	1.60	\$ 310.40	
UG COPPER 600	2136	FT	8.24	\$ 17,600.64	
BURIED COPPER 50	116	FT	1.22	\$ 141.52	
PED 10"	14	EA	24.98	\$ 349.72	
UG COPPER 300	992	FT	4.14	\$ 4,106.88	
UG COPPER 100	583	FT	1.53	\$ 891.99	
BURIED COPPER 100	158	FT	2.33	\$ 368.14	
BURIED COPPER 200	60	FT	3.47	\$ 208.20	
UG COPPER 200	266	FT	2.80	\$ 744.80	
EXEMPT MATERIAL (I.E. CONNECTORS, NUTS, BOLTS & OTHER MISCELLANEOUS ITEMS)	1	EA	11,159.00	\$ 11,159.00	
			MATERIAL COST TOTAL	\$ 39,455.89	\$ 39,455.89

C. LABOR BY UTILITY OWNER

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
SPLICING (LABOR & MATERIAL)	510	HR	\$87.38	\$44,563.80	
CONTRACT COORDINATOR (LABOR & MATERIAL)	48	HR	\$109.13	\$5,236.24	
			LABOR COST TOTAL	\$49,802.04	\$ 49,802.04

D. ENGINEERING COST

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
CONTRACT ENGINEERING (ENGINEERING & PROJECT MANAGEMENT)	1	EA	\$11,039.00	\$ 11,039.00	
AT&T ENGINEERING (ENGINEERING & PROJECT MANAGEMENT)	40	HR	\$248.66	\$ 9,946.40	
			ENGINEERING COST TOTAL	\$20,985.40	\$20,985.40

F. LOADINGS

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
AT&T CORPORATE OVERHEAD LOADINGS	1	59.379%	35,478.03	\$ 35,478.03	\$ 35,478.03
			LOADINGS TOTAL	SUBTOTAL	
			GRAND TOTAL		\$ 145,721.36

NOTE: Corporate OH Charges include Executive, Planning, Accounting, Finance, External Relations, Human Resources, Legal Procurement, R&D, and Other General Administrative costs.

SUMMARY	
MATERIAL COSTS:	39,455.89
CONTRACTOR COSTS:	0.00
AT&T LABOR COSTS:	70,787.44
CORPORATE OVERHEAD:	35,478.03
GRAND TOTAL:	145,721.36
ELIGIBILITY RATIO:	100.00%
ELIGIBLE REIMBURSEMENT TOTAL:	145,721.36

NOTE: THIS IS A COST ESTIMATE ONLY, ACTUAL COSTS WILL BE COMPILED AT THE COMPLETION OF PROJECT.

AT&T Proprietary (Internal Use Only)
Not for use or disclosure outside the AT&T companies
except under written agreement

AT&T -RELOCATION COST ESTIMATE COST
 AT&T Project 9483664 CWOTs 545T14

A. CONSTRUCTION LABOR AND EQUIPMENT COST

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
				\$ -	
			CONSTRUCTION COST TOTAL	\$0.00	\$0.00

B. MATERIAL & SUPPLIES

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
UG COPPER 100	58	FT	1.88	\$ 109.04	
PED 10"	1	EA	24.98	\$ 24.98	
BURIED COPPER 200	195	FT	2.87	\$ 559.65	
AERIAL COPPER 100	30	FT	12.80	\$ 384.00	
EXEMPT MATERIAL (I.E. CONNECTORS, NUTS, BOLTS & OTHER MISCELLANEOUS ITEMS)	1	EA	1,040.00	\$ 1,040.00	
			MATERIAL COST TOTAL	\$ 2,117.67	\$ 2,117.67

C. LABOR BY UTILITY OWNER

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
CONTRACT COORDINATOR	32	HR	\$109.13	\$ 3,492.16	
SPLICING (LABOR & MATERIAL)	45	HR	\$87.38	\$ 3,932.10	
			LABOR COST TOTAL	\$ 7,424.26	\$ 7,424.26

D. ENGINEERING COST

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
CONTRACT ENGINEERING (ENGINEERING & PROJECT MANAGEMENT)	1	EA	5,394.00	\$ 5,394.00	
AT&T ENGINEERING (ENGINEERING & PROJECT MANAGEMENT)	32		\$248.66	\$ 7,957.12	
			ENGINEERING COST TOTAL	\$13,351.12	\$13,351.12

F. LOADINGS

ITEM	QTY	UNIT	AMOUNT	SUBTOTAL	
AT&T CORPORATE OVERHEAD LOADINGS	1	59.379%	9,133.31	\$ 9,133.31	\$ 9,133.31
			LOADINGS TOTAL	SUBTOTAL	\$ 32,026.36
			GRAND TOTAL		\$ 32,026.36

NOTE: Corporate OH Charges include Executive, Planning, Accounting, Finance, External Relations, Human Resources, Legal Procurement, R&D, and Other General Administrative costs.

SUMMARY

MATERIAL COSTS:	2,117.67
CONTRACTOR COSTS:	0.00
AT&T LABOR COSTS:	20,775.38
CORPORATE OVERHEAD:	9,133.31
GRAND TOTAL:	32,026.36
ELIGIBILITY RATIO:	100.00%
ELIGIBLE REIMBURSEMENT TOTAL:	32,026.36

NOTE: THIS IS A COST ESTIMATE ONLY, ACTUAL COSTS WILL BE COMPILED AT THE COMPLETION OF PROJECT.

ASSIGNED PAIR FILL

CABLE READING	ASSIGNED PAIR		DEF. PRS.
	P	R	
4201B, 1001-1025	3	3	0
4201B, 1251-1300	25	25	7

4145 BELTLINE
NOT SERVED BY AERIAL TERM.

IF=2.330 K.F.

1 ALMW-900
45M, 549, 1978
4201B, 1201-1300
4201B, 1001-1050
A, 151-900

2 ALMW-900
45M, 161, 1978
A, 1-50
4201B, 1251-1300
A, 101-125
4201B, 1026-1050
A, 151-900

3 ALTW-100
2M, 25, 1984
4201B, 1001-1025
4201B, 26-50
4201B, 1251-1300

4 BKYS-100
2M, 35, 1981
(4201B, 1001-1025)
A, 26-50
(4201B, 1251-1300)

5 BKYS-100
2M, 50, 1981
4201B, 1001-1025
A, 26-50
4201B, 1251-1300

6 1 - PVC-C-4'
STRUCTURE PLACED BY CITY OF ADDISON

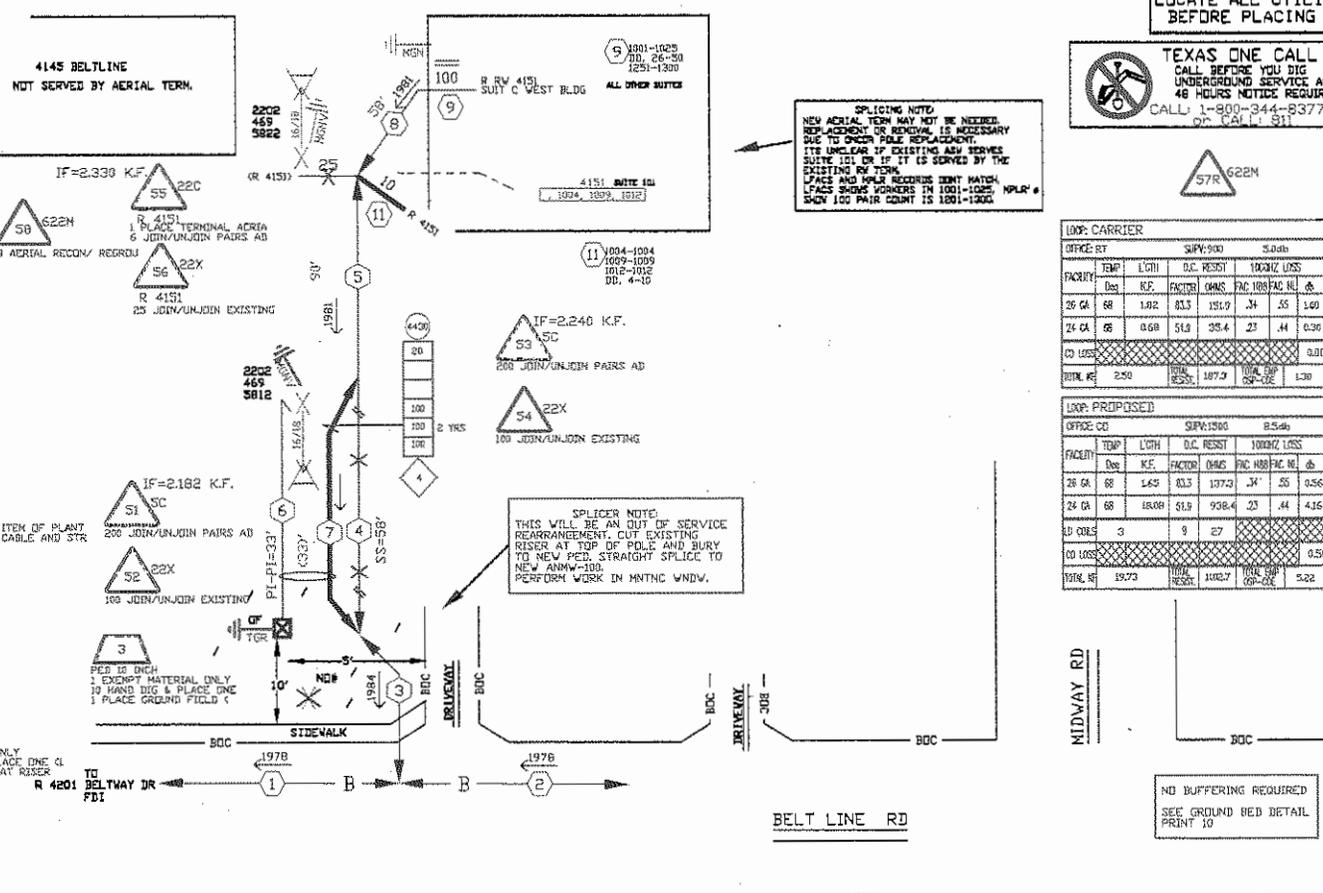
7 ANMW-100
3M, 35, 1981
4201B, 1001-1025
A, 26-50
4201B, 1251-1300

8 BKYS-100
2M, 35, 1981
4201B, 1001-1025
A, 26-50
4201B, 1251-1300

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	4RMV	BKYS-100	22X	DB007	35	1981
2	MMATL	ANMW-100	SC	DB007	58	0

- This is a CWO's project and must be handled differently than a SAU project.
- Contract Coordinators - Initial ACAS cost of this job MUST be discussed with the Engineer PRIOR to awarding a contract.
- ANY additional costs (contract OR labor) beyond the original estimated cost, MUST be approved in advance by the engineer.
- Splicing Manager and Splicers - Notify Engineer if actual splicing hours are expected to exceed forecasted hours.
- CWO'S PROJECT COSTS MUST BE KEPT IN LINE WITH ORIGINAL JOB ESTIMATE OR A CHANGE ORDER MUST BE NEGOTIATED WITH THE CUSTOMER.

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



LOCATE ALL UTILITIES BEFORE PLACING



TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED.
CALL 1-800-344-3377
OR CALL 311

SPlicing NOTE:
NEW AERIAL TERM MAY NOT BE NEEDED. REPLACEMENT OR REMOVAL IS NECESSARY DUE TO POLE PALE REPLACEMENT. IT IS UNCLEAR IF EXISTING ASB SERVES SUITE 101 OR IF IT IS SERVED BY THE EXISTING RW TERM. PLACES AND MILE RECORDS DON'T MATCH. PLACES SHOWS WORKERS IN 1001-1025. MILE RECORDS SHOW PAIR COUNT IS 1001-1005.

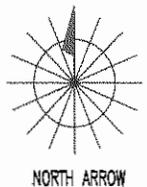
LOOP CARRIER

OFFICE ST	TEMP	LGTH	D.C. RESIST	1000HZ LOSS
28 GA	68	1.02	83.3	151.9
24 GA	68	0.68	51.8	95.4
10 LOSS				0.00
TOTAL	250	TOTAL RESIST	135.1	TOTAL LOSS

LOOP PROPOSED

OFFICE CO	TEMP	LGTH	D.C. RESIST	1000HZ LOSS
28 GA	68	1.65	83.3	137.3
24 GA	68	15.00	51.9	958.4
10 LOSS				0.50
TOTAL	1973	TOTAL RESIST	100.2	TOTAL LOSS

SPECIAL CIRCUITS N
6203 N
FORWARDED N
PERMIT Y
REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK 1 TO 58

MFCR 65C
TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 44082

CAUTION HIGH VOLTAGE
AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - DODGE ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 888-1347
POLE CONTACTS (+) 0 (-) 1

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

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

PROJECT NO 9483664

TOT.PRINTS 10 PRINT NO.1
NPA/NNX: 972-239 PRT:972239
EXCH. ADDISON
TAX DIST. 18007
GEO LOC. TM8239
ENGR. CCK DRAWN BBS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-55-4
MAP REF. 14B
SCALE NONE
ISSUE DATE
PROJ TITLE AD BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

ASSIGNED PAIR FILL

CABLE READING	ASSIGNED PAIRS		DEV. PRS.
	P	R	
4201B, 1501-1525	6	6	4
4201B, 1576-1600	6	6	2

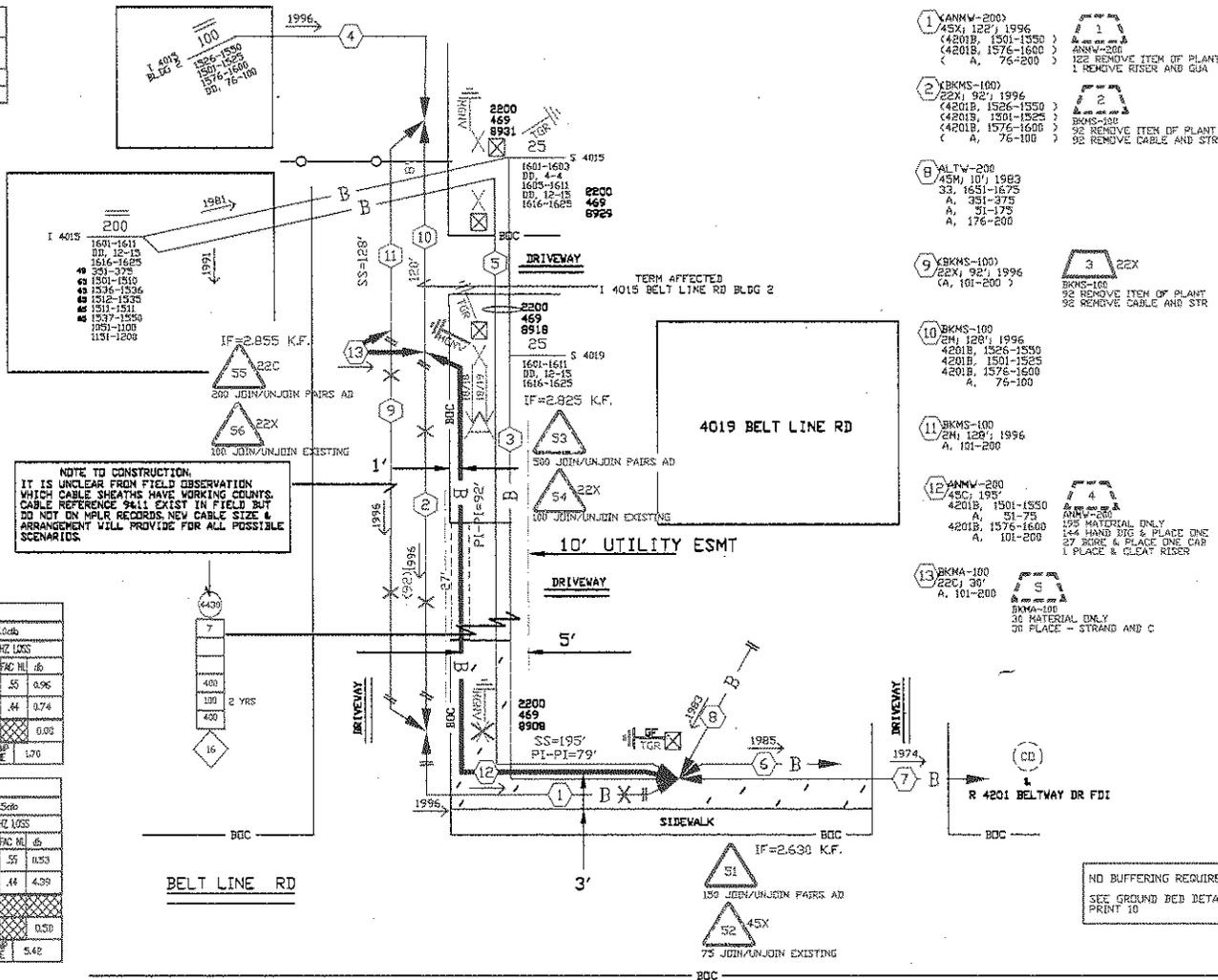
- 3) ALTW-100
45M, 175', 1981
4201B, 1601-1625
49, 351-375
65, 1301-1325
- 4) BKMS-100
2M, 297', 1996
4201B, 1526-1550
4201B, 1501-1525
4201B, 1576-1600
A, 76-100
- 5) ANMW-100
45M, 375', 1991
4201B, 1951-1100
4201B, 1151-1200
- 6) ANMW-300
45M, 300', 1985
4201B, 1376-1600
A, 1376-1430
4201B, 1151-1200
65, 1301-1350
4201B, 1051-1100
4201B, 1501-1550
- 7) A JHA-UM-300SV
45M, 254', 1974
33, 1251-1275
33, 1301-1325
33, 1601-1625
49, 351-375
33, 1651-1700
4201B, 1501-1575
4201B, 1601-1650
33, 1751-1800

LOOP CARRIER									
OFFICE RT		SUPP: 900		5.0db					
FACILITY		TEMP	LEGN	D.C. RESIST	1000HZ LOSS				
DB	K.F.	FACTOR	DIMS	FAC 1000	FAC 1K	HL	db		
26 GA	68	1.75	83.3	143.6	.34	.55	0.96		
24 GA	68	1.60	51.9	87.0	.23	.44	0.74		
CD LOSS							0.02		
TOTL LG	3.42						1.70		

LOOP PROPOSED									
OFFICE CR		SUPP: 1350		6.5db					
FACILITY		TEMP	LEGN	D.C. RESIST	1000HZ LOSS				
DB	K.F.	FACTOR	DIMS	FAC 1000	FAC 1K	HL	db		
26 GA	68	1.57	83.3	131.0	.34	.55	0.53		
24 GA	68	1.08	51.9	99.0	.23	.44	4.59		
CD LOSS	3						0.50		
TOTL LG	20.63			1148.3			5.42		

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	+RMV	ANMW-200	45X	DB007	122	1996
2	+RMV	BKMS-100	22X	DB007	92	1996
4	*MATL	ANMW-200	45C	DB007	195	0
5	*MATL	BKMA-100	22C	DB007	30	0

NOTE TO CONSTRUCTION:
IT IS UNCLEAR FROM FIELD OBSERVATION WHICH CABLE SHEATHS HAVE WORKING COILS. CABLE REFERENCE SHALL EXIST IN FIELD BUT DO NOT ON MPLR RECORDS. NEW CABLE SIZE & ARRANGEMENT WILL PROVIDE FOR ALL POSSIBLE SCENARIOS.



- 1) ANMW-200
45X, 122', 1996
4201B, 1501-1550
4201B, 1576-1600
(A, 76-200)
- 2) BKMS-100
22X, 92', 1996
4201B, 1526-1550
4201B, 1501-1525
4201B, 1576-1600
(A, 76-100)
- 3) ALTW-200
45M, 10', 1983
33, 1651-1675
A, 351-375
A, 31-175
A, 176-200
- 4) BKMS-100
22X, 92', 1996
(A, 101-200)
- 5) BKMS-100
2M, 120', 1996
4201B, 1526-1550
4201B, 1501-1525
4201B, 1576-1600
A, 76-100
- 6) BKMS-100
2M, 120', 1996
A, 101-200
- 7) ANMW-200
45C, 198'
4201B, 1501-1550
A, 51-75
4201B, 1576-1600
A, 101-200
- 8) BKMS-100
22X, 30'
A, 101-200

NO BUFFERING REQUIRED
SEE GROUND BED DETAIL
PRINT 10

TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL: 1-800-344-8377
OR CALL 1-811

SPECIAL CIRCUITS N
8203 FORWARDED N
PERMIT REQUIRED Y

NORTH ARROW

OPERATING RANGE OF JOB STEPS
TASK 1 TO 56
MFRC 45C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 443002
CAUTION HIGH VOLTAGE
KV 14.40 AERIAL BURIED

HIGHWAY PERMIT NO.

UTILITY CO (E) - ENCOR ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 888-1347
POLE CONTACTS (+) (-)

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

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

PROJECT NO 9483664

TOT.PRINTS 10 PRINT NO.2
NPA/NNX: 972-279 PRT:972239
EXCH. ADDISON
TAX DIST. DB007
GEO LOC. TMB239
ENGR. CCX DRAWN RDS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-55-2
MAP REF. 14B
SCALE NONE
ISSUE DATE
PROJ TITLE AD BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

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

① AFMW-100
45M, 539', 1988
4201B, 951-975
A, 26-75
4201B, 1126-1150

② ANMW-50
45M, 595', 2004
4201B, 1501-1525
A, 26-50

③ AFMW-200
45M, 100', 1988
4201B, 951-1000
A, 21-75
4201B, 1126-1150
4201B, 1501-1525
A, 126-200

④ ANMW-300
45M, 452', 1988
4201B, 951-1000
4201B, 1051-1075
A, 976-1000
4201B, 1101-1200
4201B, 1501-1600

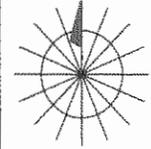
⑤ AFMW-600
45M, 305', 1988
4201B, 951-1000
4201B, 1051-1075
A, 976-1000
4201B, 1101-1200
4201B, 1501-1600
4201B, 1631-1700
4201B, 2001-2050
A, 551-600
A, 601-700

LOOP ULTIMATE									
DIPOL CO		DUP/1500				S.11ab			
FACTORY	TEMP	LOC	B.C. RESET	FACTORY	OHMS	P.C. HAVING	PH. &		
24 CA	66	21.00	51.9	1989.9	23	44	4.87		
IN COILS	3		5	27					
CO LOSS									
TOTAL RT	21.00		51.9	1116.9	TOTAL IMP	27-42	5.33		

R 4201 BELTWAY DR
LS - FBI
NEA-7882P9

45M	D8007	SAI-7000
F400	1-300	B.P. 1-300
14930M	1201-1261	B.P. 301-461
UB	462-1200	B.P. 462-1200
PGL	1501-1700	B.P. 1301-1360
PGL	2001-2100	B.P. 1301-1400
33	1601-1606	B.P. 1401-1406
33	1607-1608	B.P. 1407-1407
33	1609-1701	B.P. 1408-1408
33	1702-1701	B.P. 1409-1501
PGL	2401-2500	B.P. 1502-1521
PGL	2601-2650	B.P. 1522-1521
FH05	451-350	B.P. 1702-1601
FH05	461-650	B.P. 1602-1651
DD	1852-2092	B.P. 1852-2092
14930M	851-851	B.P. 2093-2093
DD	2094-2095	B.P. 2094-2095
14930M	602-602	B.P. 2096-2096
14930M	909-909	B.P. 2097-2097
14930M	762-762	B.P. 2098-2098
14930M	840-840	B.P. 2099-2099
PGL	2655-2655	B.P. 2100-2100
14930M	907-907	B.P. 2101-2101
FH05	301-450	B.P. 2102-2251
DD	2252-2297	B.P. 2252-2297
CS	1513-1812	B.P. 2398-2398
DD	2399-2399	B.P. 2399-2399
PGL	1471-1471	B.P. 2400-2400
PGL	2651-2651	B.P. 2401-2401
FH05	651-650	B.P. 2402-2601
PGL	1861-1862	B.P. 2602-2603
14930M	1362-2100	B.P. 2604-3342
Du	1480A	B.P. 1-855
4201B	1-2540	B.P. 859-3466
4201B	2541-2550	B.P. 3467-3468
4201B	2551-2900	B.P. 3469-3658
7000 PR SAI		

SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK 1 TO 3

MFRC 622N

TRANSMISSION ZONE

RZ 15 CZ 9 TAPER CODE 443002

CAUTION HIGH VOLTAGE

KV 14.40 AERIAL 7 BURIED 1

HIGHWAY PERMIT NO.

Utility CO (EBC - ONCOR ELECTRIC DELIVERY CO)

REP NAME KEMP SPEARS

REP TEL NO. (972) 808-1347

POLE CONTACTS (+) 0 (-) 5

Utility CO

REP NAME

REP TEL NO.

POLE CONTACTS (+) 0 (-) 0

Utility CO

REP NAME

REP TEL NO.

POLE CONTACTS (+) 0 (-) 0

PROJECT NO 9483664

TOT.PRINTS 10

PRINT NO.3

NPA/NNX: 972-239

PRT:972239

EXCH. ADDISON

TAX DIST. D8007

GEO LOC. TMS239

ENGR. CCX

DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-55-2

MAP REF. 14B

SCALE NONE

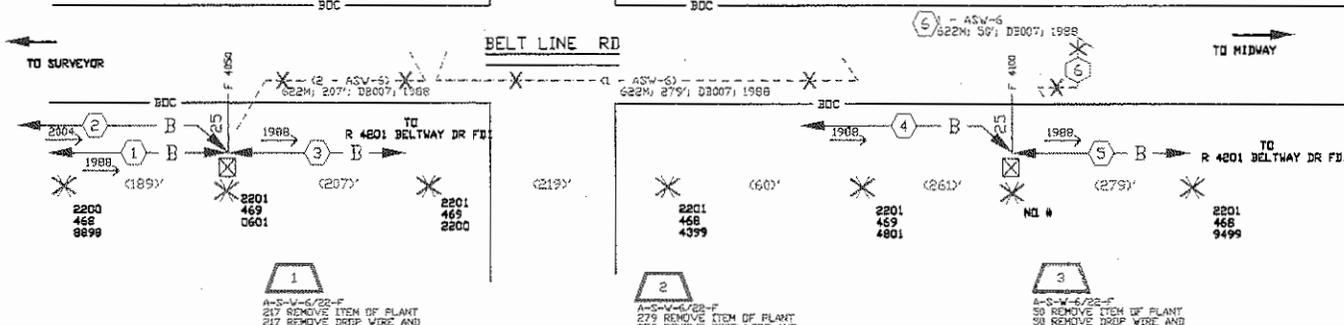
ISSUE DATE

PROJ TITLE AD BELTLINE RD RELOCATION

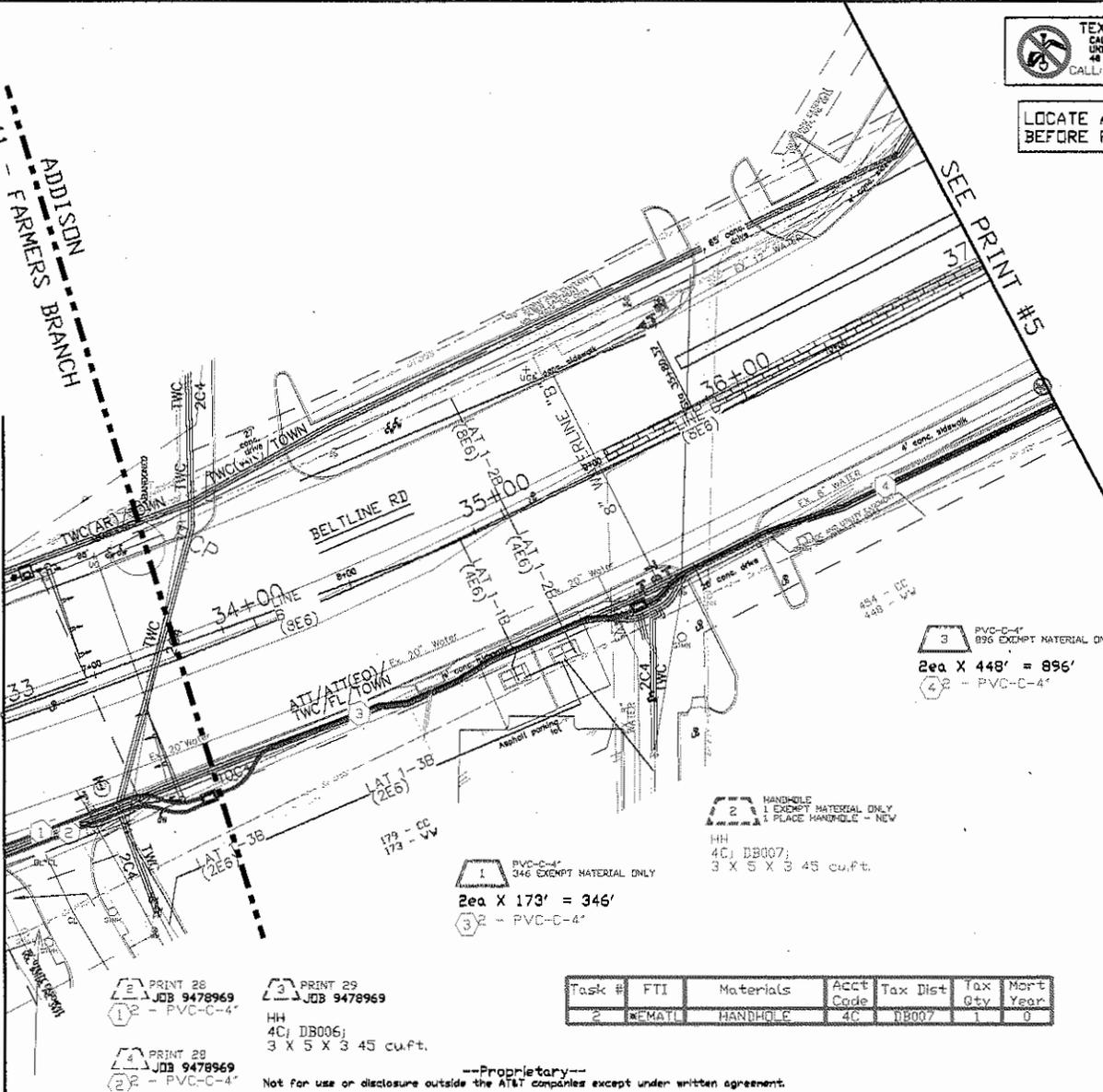
REV. NUMBER

DATE REV.

ENG CELL 214-215-8062



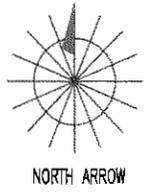
972241 - ADDISON FARMERS BRANCH
 SEE PRINT #28 - JOB NUMBER 972241. 9478969



TEXAS ONE CALL
 CALL BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT
 48 HOURS NOTICE REQUIRED
 CALL: 1-800-344-8377
 OR 214-731-8111

**LOCATE ALL UTILITIES
 BEFORE PLACING**

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS
 TASK 1 TO 3
 MFRC 4C

TRANSMISSION ZONE
 RZ 15 CZ 9 TAPER CODE 44302

CAUTION HIGH VOLTAGE
 KV 14.40 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - ONCOR ELECTRIC DELIVERY C
 REP NAME KEMP SPEARS
 REP TEL NO. (972) 808-1347
 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 9483664

TOT.PRINTS 10 PRINT NO. 4
 NPA/NNX: 972-239 PRT: 972239

EXCH. ADDISON
 TAX DIST. DB007
 GEO LOC. TMB239
 ENGR. CCX DRAWN BBS
 TELEPHONE NO. (972) 470-5337
 REC. REF. 697-645-55-4
 MAP REF. 14B
 SCALE 1' = 40.0'

ISSUE DATE
 PROJ TITLE AD BELTLINE RD RELOCATION
 REV. NUMBER
 DATE REV. 09/16/2014
 ENG CELL 214-215-8065

1 PVC-C-4
 346 EXEMPT MATERIAL ONLY
 2ea X 173' = 346'
 3 2 - PVC-C-4'

3 PVC-C-4'
 896 EXEMPT MATERIAL ONLY
 2ea X 448' = 896'
 4 2 - PVC-C-4'

HANDHOLE
 2 1 EXEMPT MATERIAL ONLY
 1 PLACE HANDHOLE - NEW
 HH
 4CJ DB007;
 3 X 5 X 3 45 cu.ft.

PRINT 28
 JOB 9478969
 1 PVC-C-4'

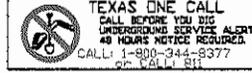
PRINT 29
 JOB 9478969
 HH
 4CJ DB007;
 3 X 5 X 3 45 cu.ft.

PRINT 28
 JOB 9478969
 2 PVC-C-4'

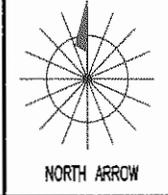
Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
2	MF-MATL	HANDHOLE	4C	DB007	1	0

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

LOCATE ALL UTILITIES
BEFORE PLACING



SPECIAL CIRCUITS N
\$203 FORWARDED N
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK 1 TO 2

MFRC #

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 44X002

CAUTION HIGH VOLTAGE
KV 14.40 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO. BEIC - ENGR ELECTRIC DELIVERY C
REP NAME REP SPEARS
REP TEL NO. (972) 898-1347
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 9483664

TOT. PRINTS 10 PRINT NO. 5

NPA/NNX: 972-239 PRT: 972239

EXCH. ADDRESS

TAX DIST. DB007

GEO LOC. TH8239

ENGR. CCK DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-55-4

MAP REF. 14B

SCALE 1" = 40.0'

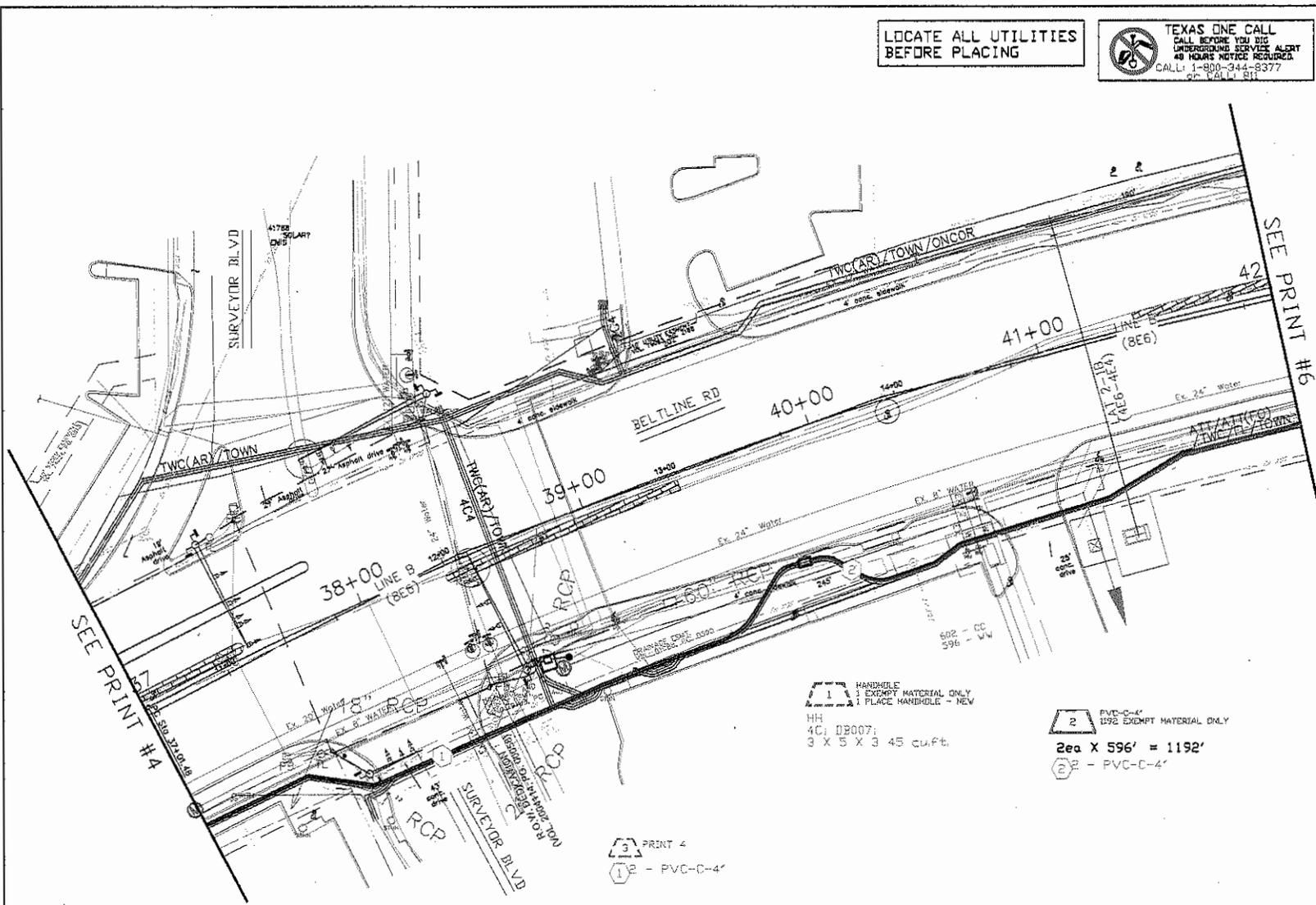
ISSUE DATE

PROJ TITLE AD BELTLINE RD RELOCATION

REV. NUMBER

DATE REV. 09/16/2014

ENG CELL 214-215-8065



1 HANDHOLE
EXCEPT MATERIAL ONLY
PLACE HANDHOLE - NEW
HH
4C; DB007;
3 X 5 X 3 45 cu.ft.

2 PVC-C-4'
1592 EXCEPT MATERIAL ONLY
2ea X 596' = 1192'
② - PVC-C-4'

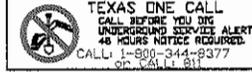
3 PRINT 4
① - PVC-C-4'

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mont Year
1	RE-MATL	HANDHOLE	4C	DB007	1	0

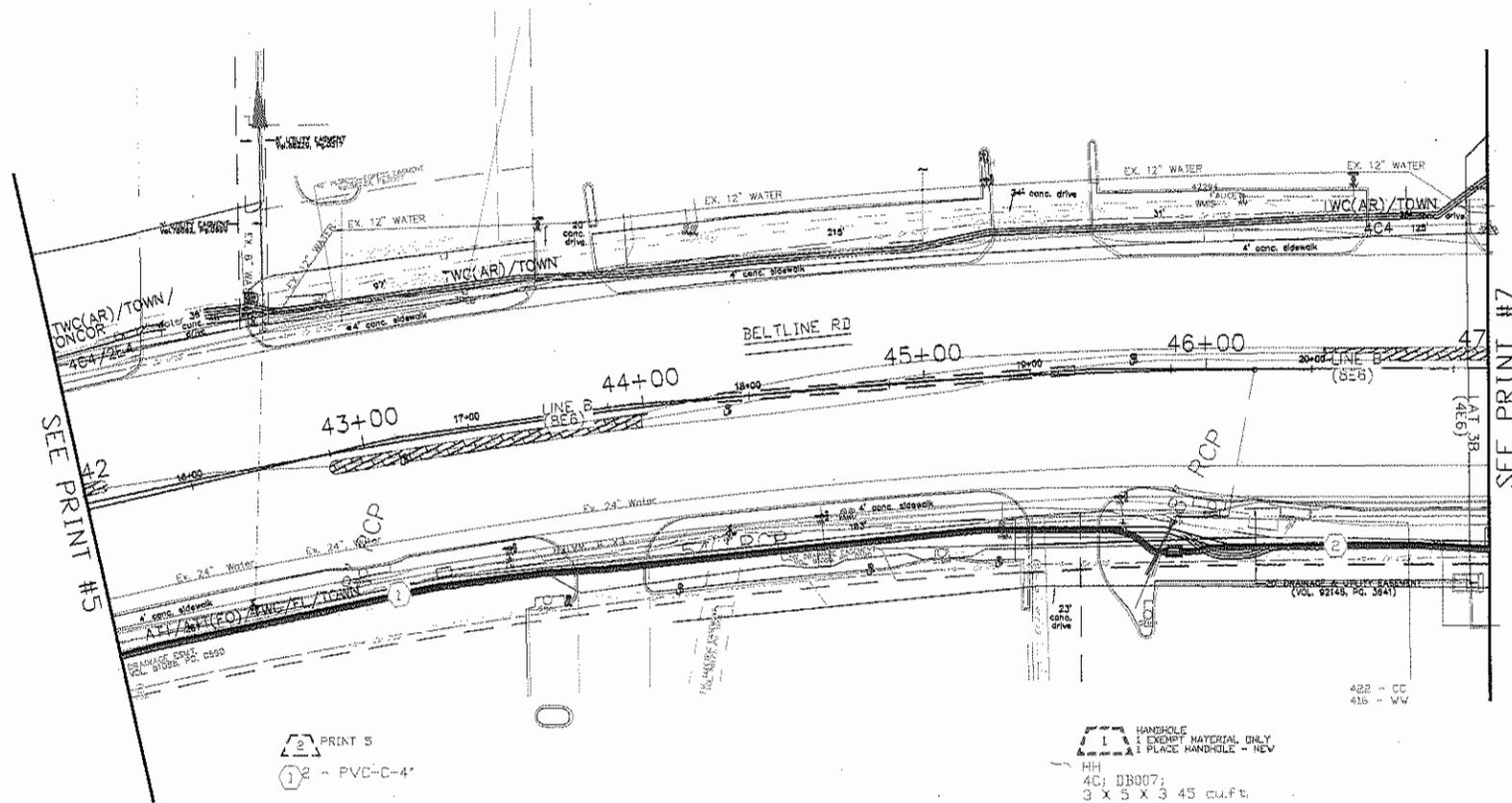
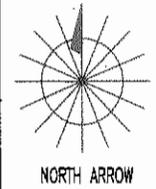
--Proprietary--

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

LOCATE ALL UTILITIES
BEFORE PLACING



SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



SEE PRINT #5

SEE PRINT #7

PRINT 5
② - PVC-C-4'

HANDHOLE
EXEMPT MATERIAL ONLY
PLACE HANDHOLE - NEV
HH
4C; DB007;
3 X 5 X 3 45 cu.ft.

② PVC-C-4'
832 EXEMPT MATERIAL ONLY
2ea X 418' = 832'
② - PVC-C-4'

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mo't Year
1	NE-MATL	HANDHOLE	4C	DB007	1	0

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

OPERATING RANGE OF JOB STEPS
TASK 1 TO 2
MFRC 4C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 443002

CAUTION HIGH VOLTAGE
KV 14.40 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO IEDC - IONIC ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 889-1347
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

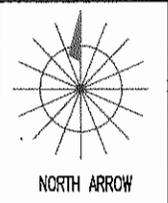
PROJECT NO 9483664

TOT.PRINTS 10 PRINT NO. 6
NPA/NNX: 972-239 PRT:972239
EXCH. ADDRESS
TAX DIST. DB007
GEO LOC. TM8239
ENGR. CCX DRAWN DBS
TELEPHONE NO. (972) 470-5037
REC. REF. 697-645-55-4
MAP REF. 148
SCALE 1" = 40.0'
ISSUE DATE
PROJ TITLE AD BELTLINE RD RELOCATION
REV. NUMBER
DATE REV. 09/16/2014
ENG CELL 214-215-8065

LOCATE ALL UTILITIES
BEFORE PLACING

TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL: 1-800-344-8377
OR CALL 811

SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED Y



OPERATING RANGE OF JOB STEPS
TASK 1 TO 7
MFCR 4C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 443002

CAUTION HIGH VOLTAGE
KV 14.40 AERIAL BURIED Y

HIGHWAY PERMIT NO.

Utility CO BEIC - BEIC ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 988-1347
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 9483664

TOT. PRINTS 10 PRINT NO. 7
NPA/NNX: 972-239 PRT: 972239
EXCH. ADDISON
TAX DIST. DB007
GEO LOC. TMR239
ENGR. CCX DRAWN/BIS
TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-55-4
MAP REF. 148
SCALE 1" = 40.0'
ISSUE DATE
PROJ TITLE AD BELTLINE RD RELOCATION
REV. NUMBER
DATE REV. 09/16/2014
ENG CELL 214-215-8065

RISE AT POLE

7 PVC-C-4"
200 EXEMPT MATERIAL ONLY
2ea X 104' = 208'
5 2 - PVC-C-4"

5 PVC-C-4"
392 EXEMPT MATERIAL ONLY
2ea X 296' = 592'
4 2 - PVC-C-4"

6 HANDHOLE
EXEMPT MATERIAL ONLY
PLACE HANDHOLE - NEW
HH DB007
3' X 5' X 3' 45 cu. ft.

1 HANDHOLE
EXEMPT MATERIAL ONLY
PLACE HANDHOLE - NEW
HH DB007
3' X 5' X 3' 45 cu. ft.

3 HANDHOLE
EXEMPT MATERIAL ONLY
PLACE HANDHOLE - NEW
HH DB007
3' X 5' X 3' 45 cu. ft.

2 PVC-C-4"
344 EXEMPT MATERIAL ONLY
2ea X 172' = 344'
2 2 - PVC-C-4"

4 PVC-C-4"
246 EXEMPT MATERIAL ONLY
2ea X 123' = 246'
3 2 - PVC-C-4"

SEE PRINT #6

SEE PRINT #8

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	RE-MATL	HANDHOLE	4C DB007		0	
3	RE-MATL	HANDHOLE	4C DB007		0	
6	RE-MATL	HANDHOLE	4C DB007		0	

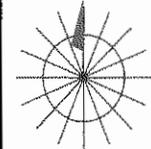
--Proprietary--
Not for use or disclosure outside the AT&T companies except under written agreement.

LOCATE ALL UTILITIES
BEFORE PLACING



TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND EVERY ONE ALERT
48 HOURS NOTICE REQUIRED
CALL: 1-800-344-9377
OR: 281-7-91

SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK 1 TO 2

MFR: 4C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 443002

CAUTION HIGH VOLTAGE
KV 14.40 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO: DEIC - DIXIE ELECTRIC DELIVERY C
REP NAME: KEVIN SPEARS
REP TEL NO.: (972) 888-1347
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 9483664

TOT. PRINTS 10 PRINT NO. 8
NPA/NNX: 972-239 PRT: 972239

EXCH. ADDISON

TAX DIST. DB007

GEO LOC. TMR239

ENGR. CCX DRAWN: BJS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-55-4

MAP REF. 14B

SCALE 1" = 40.0'

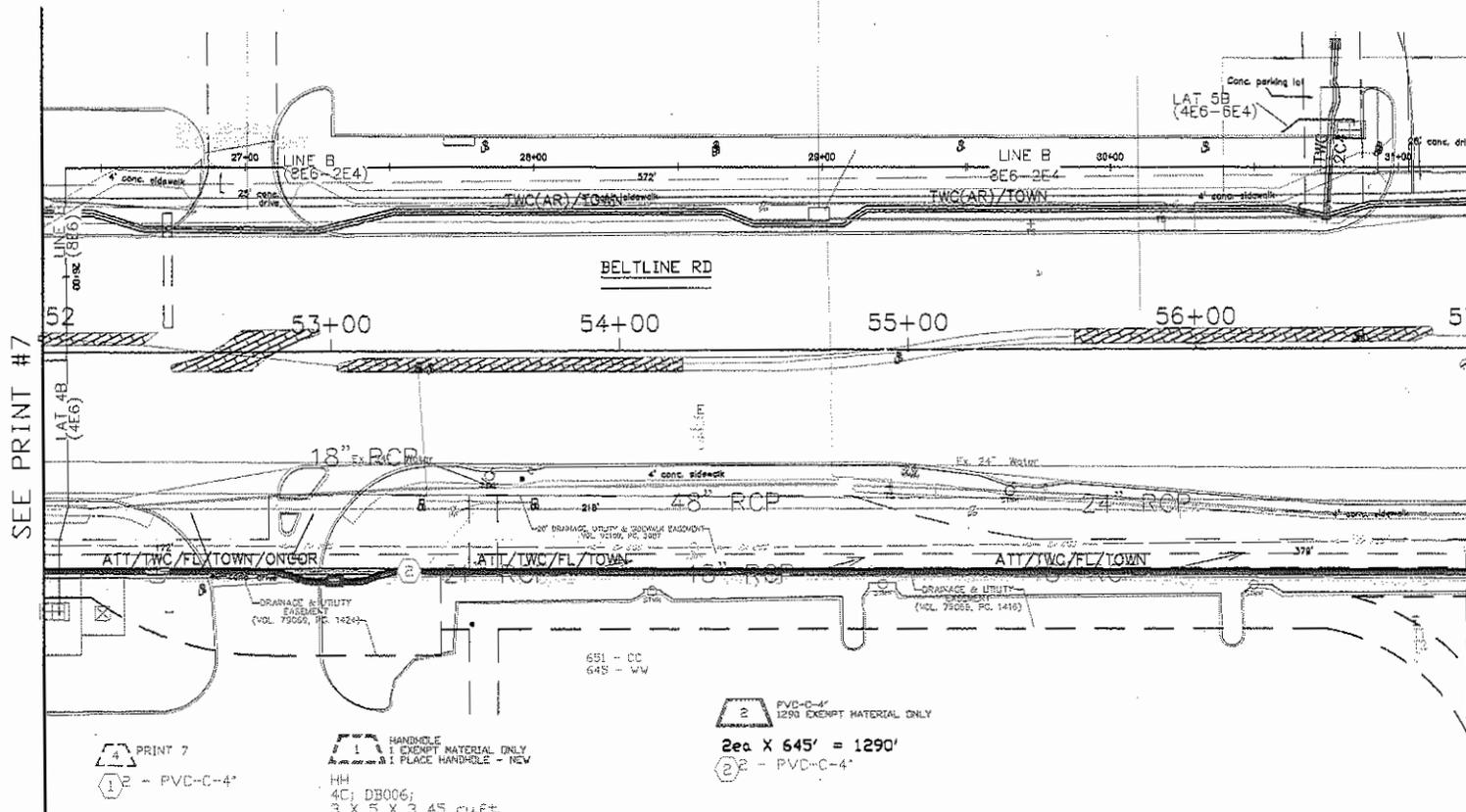
ISSUE DATE

PROJ TITLE: AD BELTLINE RD RELOCATION

REV. NUMBER

DATE REV. 09/16/2014

ENG CELL 214-215-8065



SEE PRINT #7

SEE PRINT #9

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Dty	Mort Year
1	MEMATL	HANDHOLE	4C	DB006	1	0

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

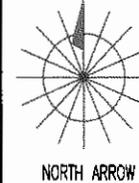
LOCATE ALL UTILITIES
BEFORE PLACING



TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL 1-800-344-3377
CALL 2-214-211

HANDHOLE
1 EXEMPT MATERIAL ONLY
3 PLACE HANDHOLE - NEW
HH
4C DB007;
3 X 5 X 3 45 cu.ft.

SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK 1 TO 3

MFR 4C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 44302

CAUTION HIGH VOLTAGE
KV 14.40 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO BEIC - ONCOR ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 888-1347
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

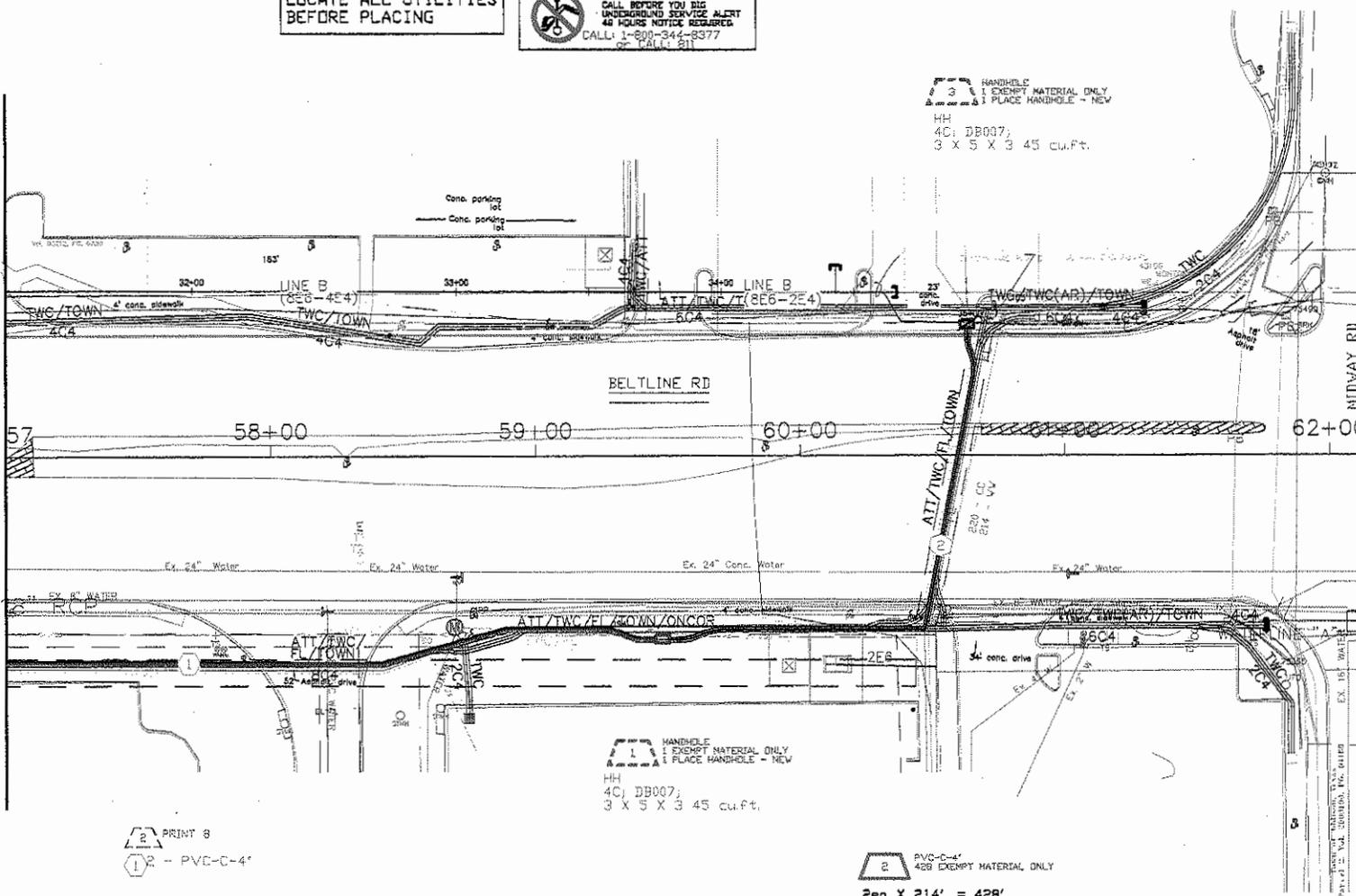
PROJECT NO 9483664

TOT. PRINTS 10 PRINT NO. 9
NPA/NNX: 972-239 PRT: 972239

EXCH. ADDISON
TAX DIST. 08007
GEO LOC. TW6239
ENGR. CCX DRAWN BDS
TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-55-4
MAP REF. 148
SCALE 1" = 40.0'
ISSUE DATE
PROJ TITLE AD BELTLINE RD RELOCATION
REV. NUMBER
DATE REV. 09/16/2014
ENG CELL 214-215-8065

SEE PRINT #8



PRINT 8
2 - PVC-C-4'

HANDHOLE
1 EXEMPT MATERIAL ONLY
3 PLACE HANDHOLE - NEW
HH
4C DB007;
3 X 5 X 3 45 cu.ft.

PVC-C-4'
450 EXEMPT MATERIAL ONLY
2ea X 214' = 428'
2 - PVC-C-4'

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mont Year
1	REMATL	HANDHOLE	4C	DB007	1	0
3	REMATL	HANDHOLE	4C	DB007	1	0

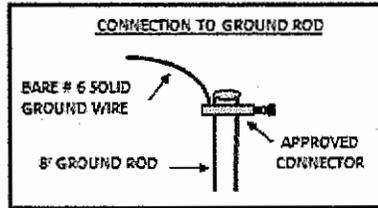
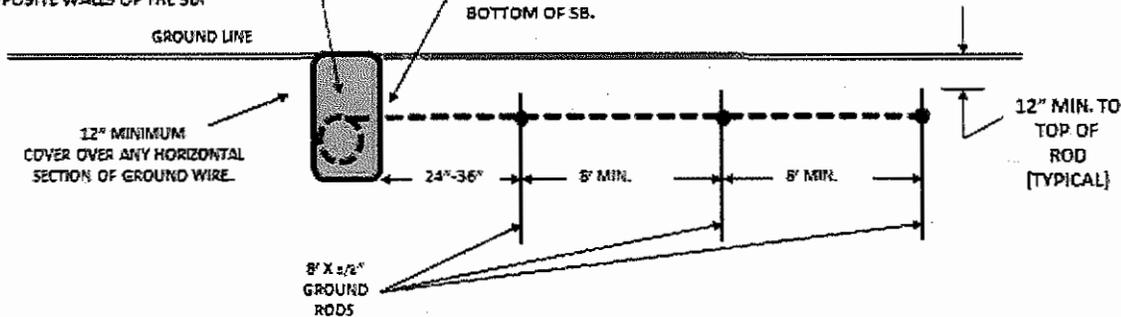
---Proprietary---
Not for use or disclosure outside the AT&T companies except under written agreement

BURIED GROUND BED DETAIL

FIRST GROUND ROD TO BE PLACED NO CLOSER THAN 24" AND NO FURTHER THAN 36" TO/FROM ANY SURFACE OF THE POLE. SECOND AND THIRD GROUND RODS ARE TO BE SEPARATED BY AT LEAST 8 FEET FROM EACH OTHER AND FROM THE FIRST GROUND ROD. THE TOP OF EACH GROUND ROD IS TO BE AT LEAST 12" BELOW FINAL GRADE AT THE ROD LOCATION. USE 5/8" DIAMETER, COPPER CLAD, STEEL GROUND ROD - 96" LONG.

LOOP #6 AWG BARE SOLID COPPER GROUND WIRE THRU THE CLAMPS AT EACH GROUND ROD - DO NOT CUT WIRE. ROUTE WIRE FROM CLOSEST ROD INSIDE SB, WRAPPING THE SB ONE TIME, MAKING AN APPEARANCE ON 2 OPPOSITE WALLS OF THE SB.

BARE # 6 SOLID GROUND WIRE TO ENTER THROUGH SIDE WALL OR THROUGH BOTTOM OF SB.



TWO DAYS BEFORE YOU DIG
CALL U.S.A. TOLL FREE
811

--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 _____ TO _____

MFR C 45C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 443002

CAUTION HIGH VOLTAGE
KV 14.40 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO DERC - INDOOR ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 896-1347
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 9483664

TOT. PRINTS 10 PRINT NO. 10
NPA/NNX: 972-239 PRT: 972239

EXCH.

TAX DIST.

GEO LOC.

ENGR. CCK

DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-55-4

MAP REF. 14B

SCALE NONE

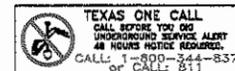
ISSUE DATE

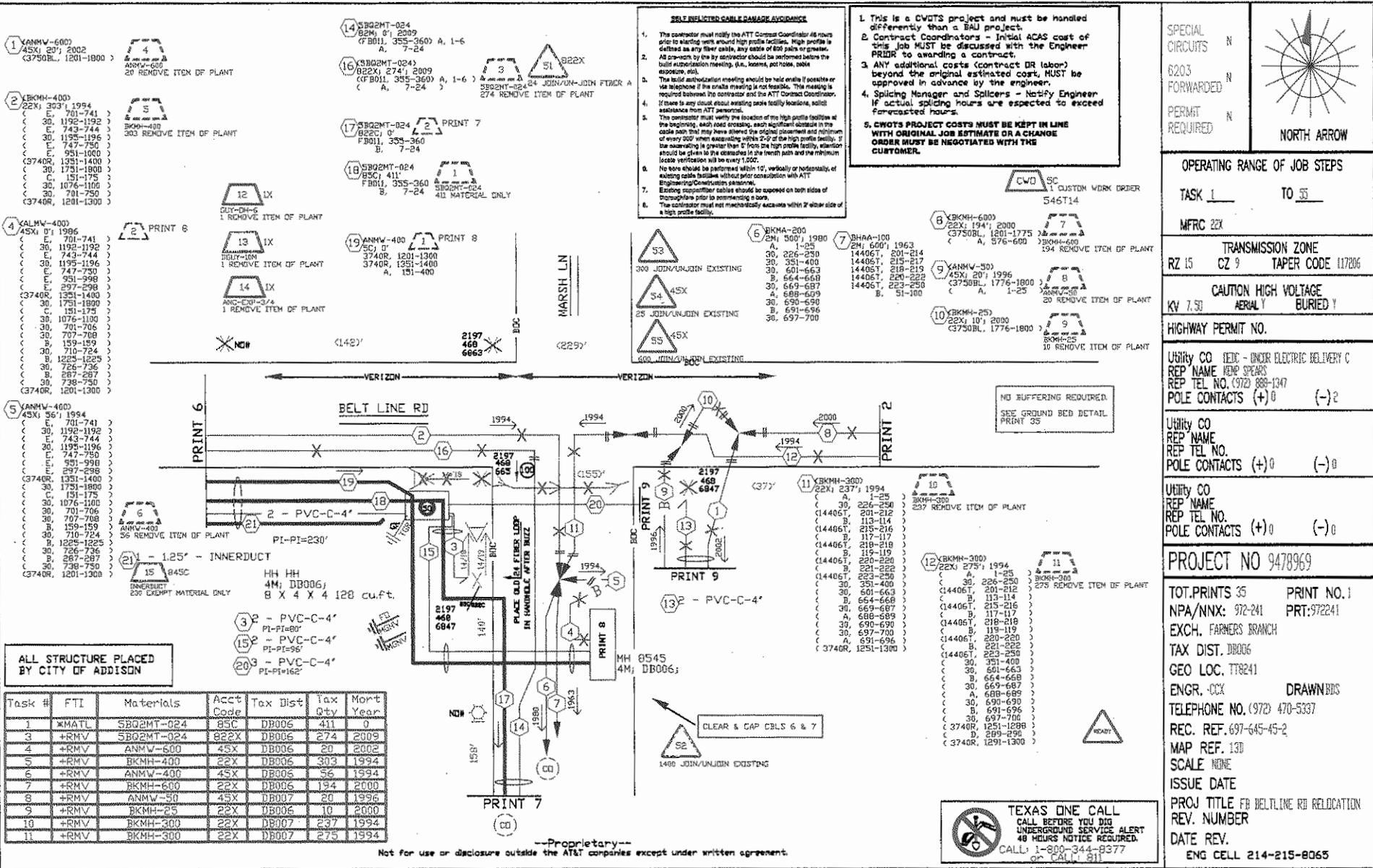
PROJ TITLE AD BELTLINE RD RELOCATION

REV. NUMBER

DATE REV. 09/16/2014

ENG CELL: 214-215-8065





SELF-INDICATED CABLE DAMAGE AVOIDANCE

- The contractor must notify the ATT Contract Coordinator 48 hours prior to starting work around high profile facilities. High profile is defined as any fiber cable, any cable of 800 pairs or greater.
- All pre-work by the contractor should be performed before the build authorization meeting. (i.e., locate, expose, cable exposure, etc.)
- The build authorization meeting should be held onsite or via telephone if the onsite meeting is not feasible. The meeting is required between the contractor and the ATT Contract Coordinator.
- If there is any doubt about existing cable facility locations, solicit assistance from ATT personnel.
- The contractor must verify the location of the high profile facilities at the beginning, each road crossing, each significant obstacle in the cable path that may have altered the original placement and minimum of every 500' when excavating within 2-3' of the high profile facility. If the excavation is greater than 2' from the high profile facility, elevation should be given to the contractor in the trench path and the minimum locate verification will be every 1,000'.
- No bore should be performed within 10' vertically or horizontally of existing cable facilities without prior consultation with ATT Engineering/Construction personnel.
- Excavation equipment cables should be supported on both sides of the trench prior to commencing a bore.
- The contractor must not mechanically access within 2' either side of a high profile facility.

1. This is a CVOTS project and must be handled differently than a BAU project.

2. Contract Coordinators - Initial ACAS cost of this job MUST be discussed with the Engineer PRIOR to awarding a contract.

3. ANY additional costs (Contract OR labor) beyond the original estimated cost, MUST be approved in advance by the engineer.

4. Splicing Manager and Splicers - Notify Engineer if actual splicing hours are expected to exceed forecasted hours.

5. CVOTS PROJECT COSTS MUST BE KEPT IN LINE WITH ORIGINAL JOB ESTIMATE OR A CHANGE ORDER MUST BE NEGOTIATED WITH THE CUSTOMER.

SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED N

NORTH ARROW

OPERATING RANGE OF JOB STEPS
TASK 1 TO 55
MFRC 22X

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL BURIED Y

HIGHWAY PERMIT NO.

Utility CO IEDC - UNDER ELECTRIC DELIVERY C
REP NAME KEND SPEARS
REP TEL NO. (972) 888-1347
POLE CONTACTS (+) 0 (-) 2

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

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

PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO. 1
NPA/NNX: 972-241 PRT:972241

EXCH. FARMERS BRANCH

GEO LOC. TT8241

ENGR. -CCX DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2

MAP REF. 13D
SCALE NONE

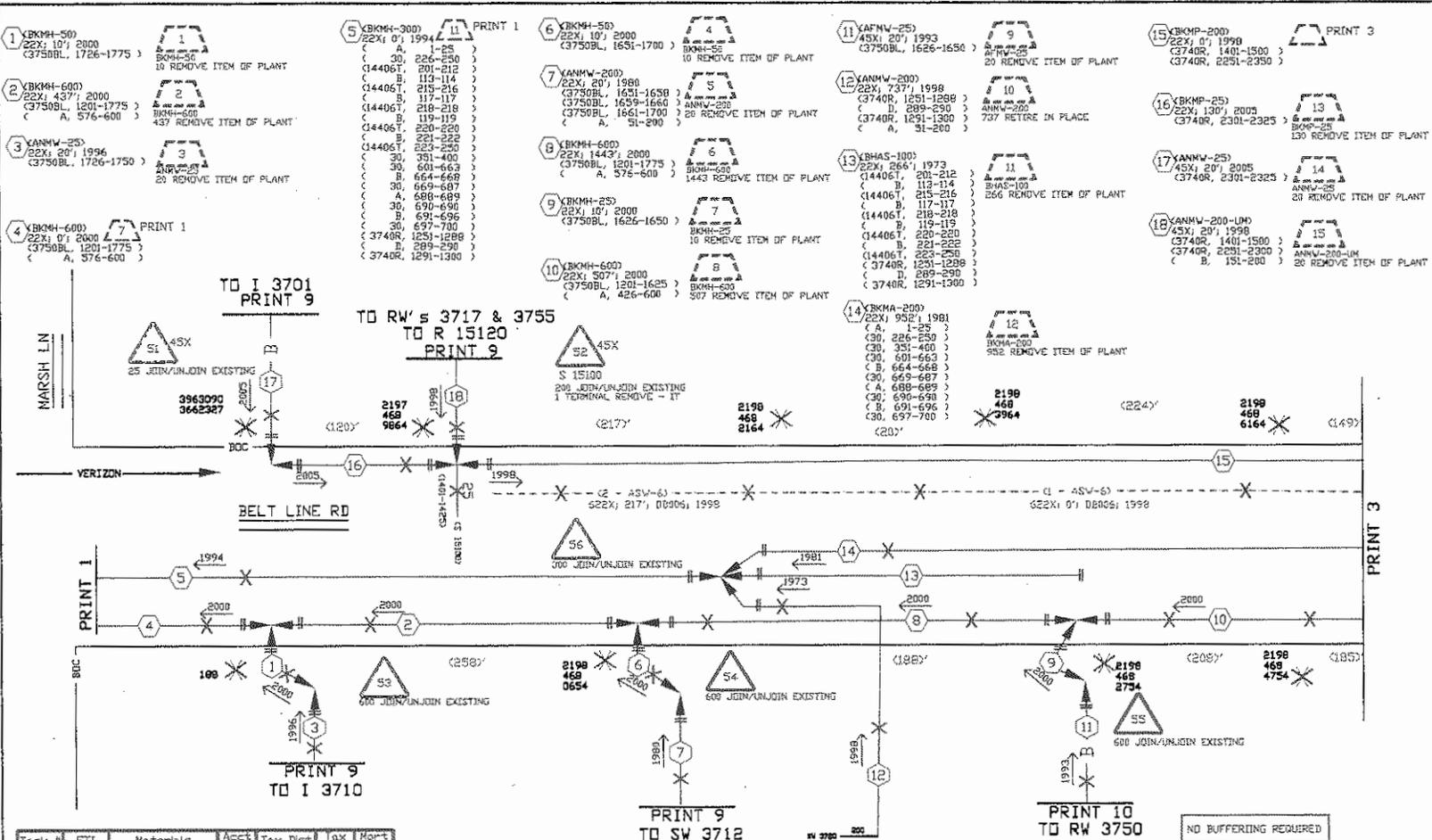
ISSUE DATE
PROJ TITLE FB BELT LINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

ALL STRUCTURE PLACED BY CITY OF ADDISON

Task #	FTI	Materials	Acct Code	Tax Dist	Qty	Unit	Year
1	*MATL	SBQ2MT-024	85C	DB006	411	0	
3	+RMV	SBQ2MT-024	822X	DB006	274	2009	
4	+RMV	ANMW-600	45X	DB006	20	2002	
5	+RMV	BKMH-400	22X	DB006	303	1994	
6	+RMV	ANMW-400	45X	DB006	56	1994	
7	+RMV	BKMH-600	22X	DB006	194	2000	
8	+RMV	ANMW-500	45X	DB007	20	1996	
9	+RMV	BKMH-25	22X	DB006	10	2000	
10	+RMV	BKMH-300	22X	DB007	237	1994	
11	+RMV	BKMH-600	22X	DB007	275	1994	

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

TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED.
CALL 1-800-341-9377
OR CALL 811



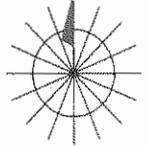
Task #	FTI	Materials	Acct	Tax Dst	Tax	Mo
1	ARMV	BKMH-50	22X	08006	10	2000
2	ARMV	BKMH-600	22X	08006	437	2000
3	ARMV	ANMW-25	22X	08007	29	1994
4	ARMV	BKMH-50	22X	08006	10	2000
5	ARMV	ANMW-200	22X	08006	20	1998
6	ARMV	BKMH-600	22X	08006	243	2000
7	ARMV	BKMH-25	22X	08006	10	2000
8	ARMV	BKMH-50	22X	08006	507	2000
9	ARMV	AFNW-25	45X	08006	20	1993
10	ARMV	ANMW-200	22X	08006	21	1998
11	ARMV	BHAS-100	22X	08007	266	1973
12	ARMV	BKMA-200	22X	08007	959	1991
13	ARMV	BKMP-25	22X	08006	190	2005
14	ARMV	ANMW-25	45X	08006	29	2005
15	ARMV	ZANW-200-LM	45X	08006	20	1998

---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 1 TO 36

MFRC 22X

TRANSMISSION ZONE

RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE

KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO: DEIC - DIXIE ELECTRIC DELIVERY C
 REP NAME: KEMP SPEARS
 REP TEL NO.: (972) 888-1347
 POLE CONTACTS (+)0 (-)9

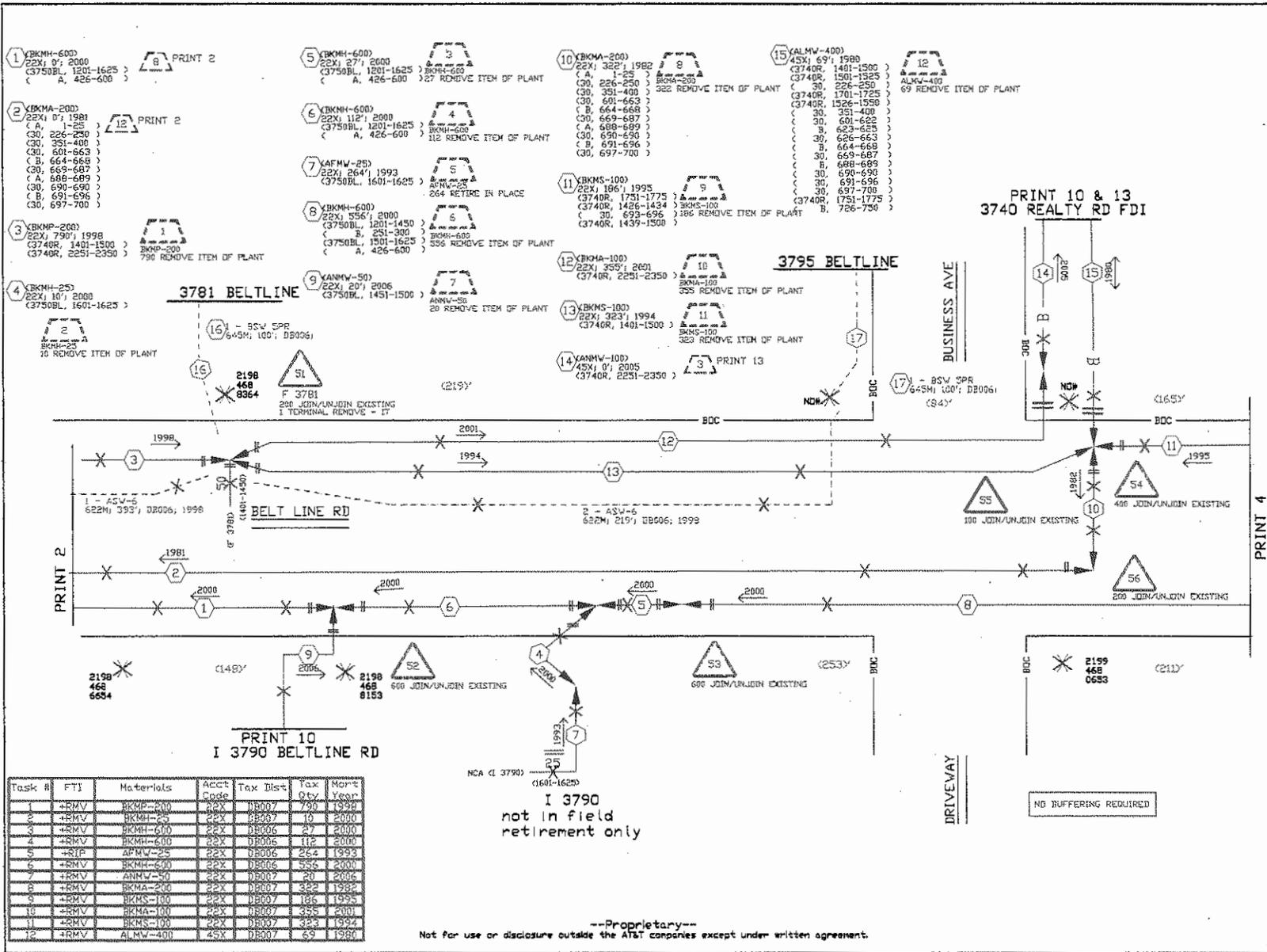
Utility CO
 REP NAME
 REP TEL NO.
 POLE CONTACTS (+)0 (-)0

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

PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO.2
 NPA/NNX: 972-241 PRT:972241
 EXCH. FARMERS BRANCH
 TAX DIST. DB006
 GEO LOC. TT8241
 ENGR. CCX DRAWN BJS
 TELEPHONE NO. (972) 470-5337
 REC. REF. 697-645-45-2
 MAP REF. 13D
 SCALE NONE
 ISSUE DATE
 PROJ TITLE FB BELTLINE RD RELOCATION
 REV. NUMBER
 DATE REV.

ENG CELL 214-215-8065

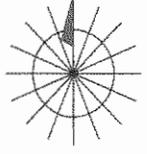


Task #	FTI	Materials	Acct Code	Tax Dist	Tax	Month
1	+RMV	BKMP-200	22X	D8007	05	1998
2	+RMV	BKMH-25	22X	D8007	10	2000
3	+RMV	BKMH-600	22X	D8006	27	2000
4	+RMV	BKMH-600	22X	D8006	112	2000
5	+RJP	ANMW-25	22X	D8006	264	1993
6	+RMV	BKMH-600	22X	D8006	556	2000
7	+RMV	ANMW-50	22X	D8007	20	2006
8	+RMV	BKMA-200	22X	D8007	322	1982
9	+RMV	BKMS-100	22X	D8007	186	1995
10	+RMV	BKMA-100	22X	D8007	355	2001
11	+RMV	BKMS-100	22X	D8007	323	1994
12	+RMV	ALMW-400	45X	D8007	69	1980

I 3790
not in field
retirement only

--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 1 TO 56
MFRC 22X

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - ONOR ELECTRIC DELIVERY C
REP NAME NEWP SPEAKS
REP TEL NO. (972) 888-1387
POLE CONTACTS (+) 0 (-) 6

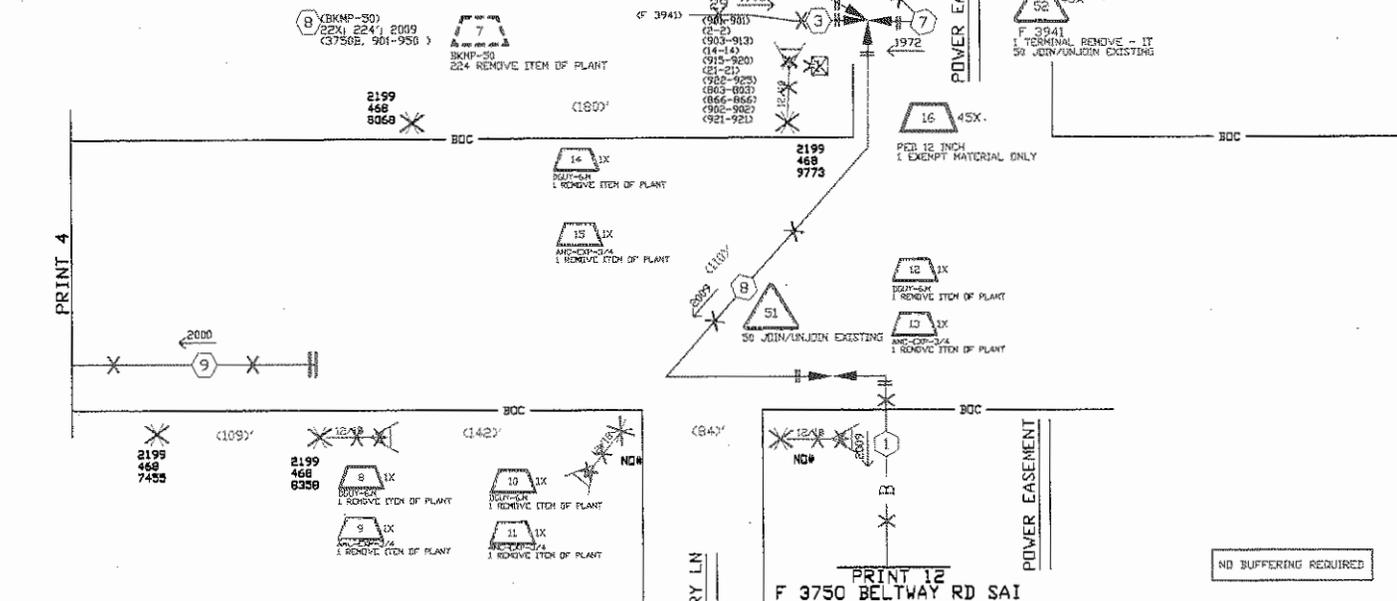
Utility CO
REP NAME
REP TEL NO.
POLE CONTACTS (+) 0 (-) 0

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

PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO. 3
NPA/NNX: 972-241 PRT: 972241
EXCH. FARMERS BRANCH
TAX DIST. D8006
GEO LOC. TT8241
ENGR. CCX DRAWN DJS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-45-2
MAP REF. 13D
SCALE NONE
ISSUE DATE
PROJ TITLE FB BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

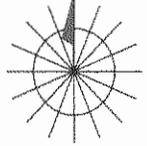
- 1 ANMW-200 (45X) 0' 2009 (3750B, 901-950) (D, 51-200)
- 2 ANMW-25 (22X) 40' 1996 (3750B, 901-904) (A, 5-12) ANMW-25 (3750B, 913-916) (A, 17-25)
- 3 BKMA-25 (22X) 15' 1985 (3750B, 901-925) BKMA-25 (22X) 52' 1996 (3750B, 901-904) (A, 5-12) ANMW-25 (3750B, 913-916) (A, 17-25)
- 4 BKMS-25 (22X) 52' 1972 (3750B, 919-925) BKMS-25 (22X) 25' 1972 (3750B, 919-925) (A, 1-18) BKMS-25 (22X) 25' 1972 (3750B, 919-925) (A, 1-18)
- 5 BHAA-25 (22X) 52' 2003 (3750B, 905-912) (A, 1-4) BHAA-25 (22X) 52' 2003 (3750B, 905-912) (A, 1-4)
- 6 AFAW-16 (22X) 52' 1996 (3750B, 901-904) (A, 5-12) AFAW-16 (22X) 52' 1996 (3750B, 901-904) (A, 5-12)
- 7 BKMS-25 (22X) 25' 1972 (3750B, 919-925) (A, 1-18) BKMS-25 (22X) 25' 1972 (3750B, 919-925) (A, 1-18)
- 8 BKMP-50 (22X) 224' 2009 (3750B, 901-950) BKMP-50 (22X) 224' 2009 (3750B, 901-950)



Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	+RMV	ANMW-25	22X	DB007	40	1996
2	+RMV	BKMA-25	22X	DB007	15	1985
3	+RMV	BKMS-25	22X	DB007	52	1972
4	+RMV	BHAA-25	22X	DB007	52	2003
5	+RMV	AFAW-16	22X	DB007	52	1996
6	+RMV	BKMS-25	22X	DB007	25	1972
7	+RMV	BKMP-50	22X	DB006	224	2009

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

SPECIAL CIRCUITS Y
6203 FORWARDED N
PERMIT REQUIRED Y



NORTH ARROW

OPERATING RANGE OF JOB STEPS
TASK 1 TO 53
MFRC 22X

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.
Utility CO: TREC - TEXAS ELECTRIC DELIVERY C
REP NAME: KEMP SPEARS
REP TEL NO.: (972) 888-1347
POLE CONTACTS (+) 0 (-) 6

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

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

PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO.5
NPA/NNX: 972-241 PRT:972241
EXCH. FARMERS BRANCH
TAX DIST. 00006
GEO LOC. TT8241
ENGR. CCX DRAWN BBS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-45-2
MAP REF. 130
SCALE NONE
ISSUE DATE
PROJ. TITLE FB BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.



TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL: 1-800-344-8377
or CALL: 811

NO BUFFERING REQUIRED

- 1 XBKMT-400
(22X) (7) 1994
(E, 701-741)
(30, 1192-1192)
(E, 743-744)
(30, 1195-1196)
(E, 747-750)
(E, 951-1000)
(3740R, 1351-1400)
(30, 1751-1800)
(C, 151-175)
(30, 1076-1100)
(30, 701-750)
(3740R, 1201-1300)

- 2 ANMW-50
(2M, 426) 2000
14602V, 451-500

- 3 BKMS-300
(2M, 430) 1986
3740R, 1251-1275
(E, 726-741)
(30, 1192-1192) E, 742-742
(E, 743-744) E, 745-746
(30, 1195-1196) E, 745-746
(E, 747-750)
(E, 251-300)
3740R, 1351-1400
(30, 1751-1800) E, 451-500
3740R, 1201-1250
(30, 701-708) E, 551-550
(E, 559-559)
(30, 710-724) E, 560-574
(E, 575-575)
(30, 726-736) E, 576-586
(E, 587-587)
(30, 739-750) E, 589-600

- 4 ANMW-25
(2M, 194) 1996
3740R, 1251-1275

- 5 ZHAS-100
(2M, 144) 1973
3740R, 1201-1250
3740R, 1251-1400

- 6 BKMP-50
(2M, 382) 2000
14602V, 451-500

- 7 XSBQ2MT-024
(22X) (7) 2009
(FB01, 355-360) A, 1-6)
(A, 7-24)

- 8 XSBQ2MT-024
(BSC) (7) 2009
(FB01, 355-360) A, 1-6)
(A, 7-24)

- 9 XSBQ2MT-024
(2M, 100) 2009
(FB01, 355-360) A, 1-6)
(A, 7-24)

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 Butt Splice Configuration. Fusion Splicing to be done Outside this Manhole.

Bond and Ground per ATT-TELCO-002-206-015-Aerial
Bond all strands of separate cables; At the beginning, end and every 1/4 mile, at each crossover, at each branch. Bond cable shield and strand to a MGN vertical on joint crossing poles where power is present.

SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y

NORTH ARROW

OPERATING RANGE OF JOB STEPS
TASK 1 TO 54
MFRC 822C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO (EBC - ENCOR ELECTRIC DELIVERY C)
REP NAME KEMP SPEARS
REP TEL NO. (972) 889-1347
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

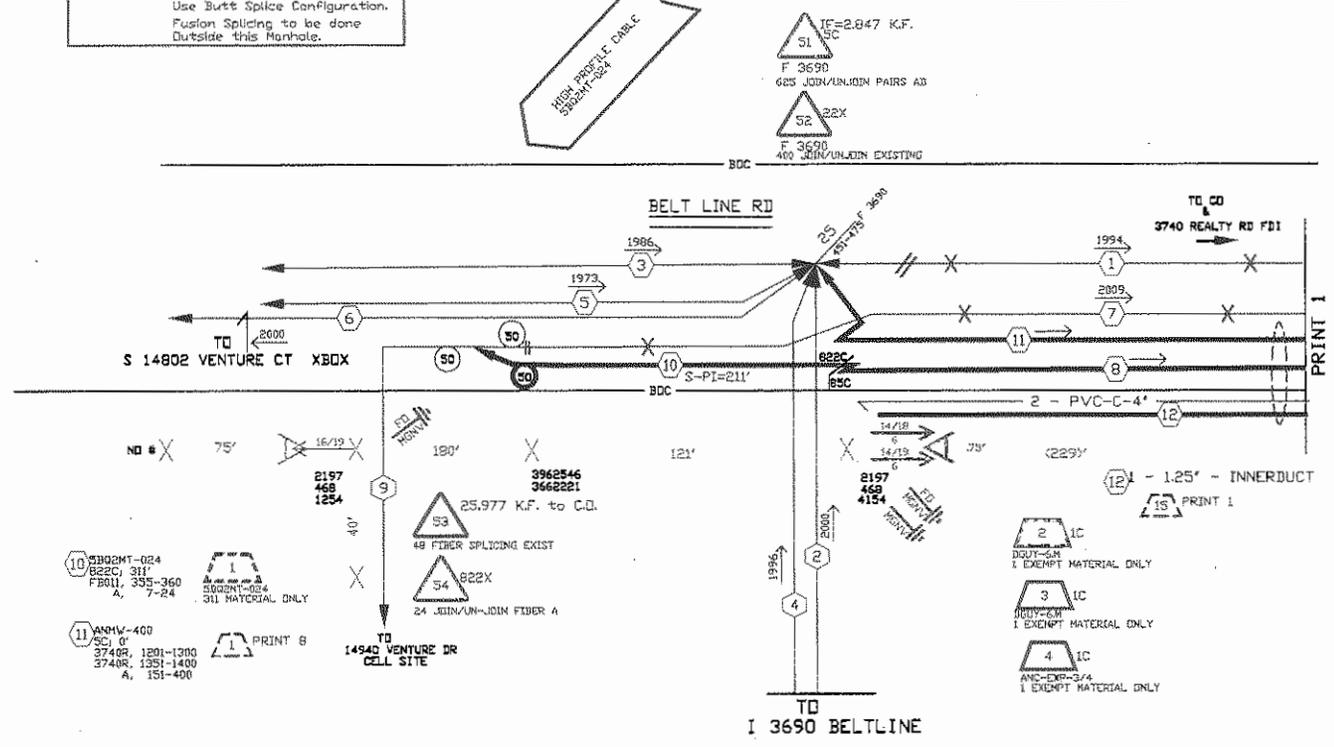
PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO.6
NPA/NNX: 972-241 PRT:972241
EXCH. FARMERS BRANCH
TAX DIST. DB006
GEO LOC. TT8241
ENGR. CCX DRAWN DBS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-45-2
MAP REF. 130
SCALE NONE
ISSUE DATE

PROJ TITLE FB BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

100' PROFILE CABLE
150' MIN. 150'

NO BUFFERING REQUIRED

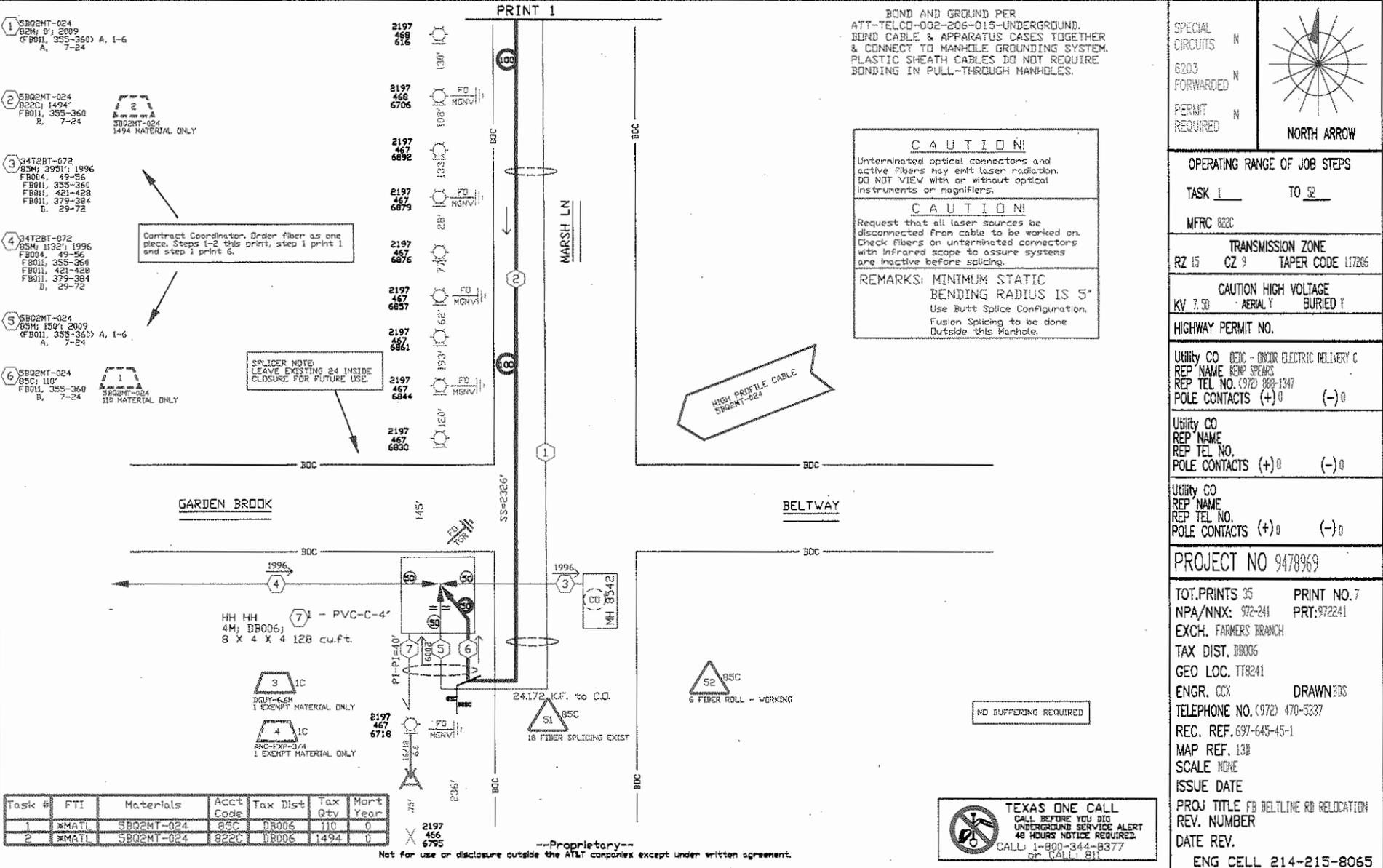


Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	XMATL	SBQ2MT-024	822C	DB006	311	0

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

STRUCTURE PLACED BY
CITY OF ADDISON

TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED.
CALL 1-800-344-8377
or CALL 811



BOND AND GROUND PER
ATT-TELCO-002-206-015-UNDERGROUND.
BOND CABLE & APPARATUS CASES TOGETHER
& CONNECT TO MANHOLE GROUNDING SYSTEM.
PLASTIC SHEATH CABLES DO NOT REQUIRE
BONDING IN PULL-THROUGH MANHOLES.

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.

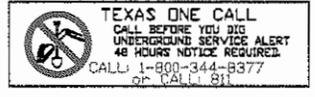
REMARKS: MINIMUM STATIC BENDING RADIUS IS 5'
Use Butt Splice Configuration. Fusion Splicing to be done Outside this Manhole.



SPECIAL CIRCUITS	N
6203 FORWARDED	N
PERMIT REQUIRED	N
OPERATING RANGE OF JOB STEPS	
TASK 1	TO 2
MFRC 022C	
TRANSMISSION ZONE	
RZ 15	CZ 9 TAPER CODE 117206
CAUTION HIGH VOLTAGE	
KV 7.50	AERIAL Y BURIED Y
HIGHWAY PERMIT NO.	
Utility CO. BEIC - INDIAN ELECTRIC DELIVERY C	
REP NAME KEMP SPEARS	
REP TEL NO. (972) 888-1347	
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 9478969	
TOT. PRINTS 35	PRINT NO. 7
NPA/NNX: 972-241	PRT: 972241
EXCH. FARMERS BRANCH	
TAX DIST. DB006	
GEO LOC. TT8241	
ENGR. CCX	DRAWN BDC
TELEPHONE NO. (972) 470-5337	
REC. REF. 697-645-45-1	
MAP REF. 13D	
SCALE NONE	
ISSUE DATE	
PROJ TITLE FB BELTLINE RD RELOCATION	
REV. NUMBER	
DATE REV.	
ENG CELL 214-215-8065	

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	MATL	SBQ2MT-024	85C	DB006	110	0
2	MATL	SBQ2MT-024	822C	DB006	1494	0

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



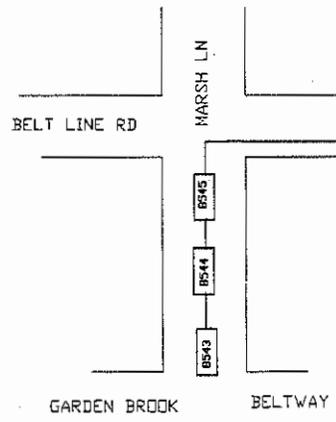
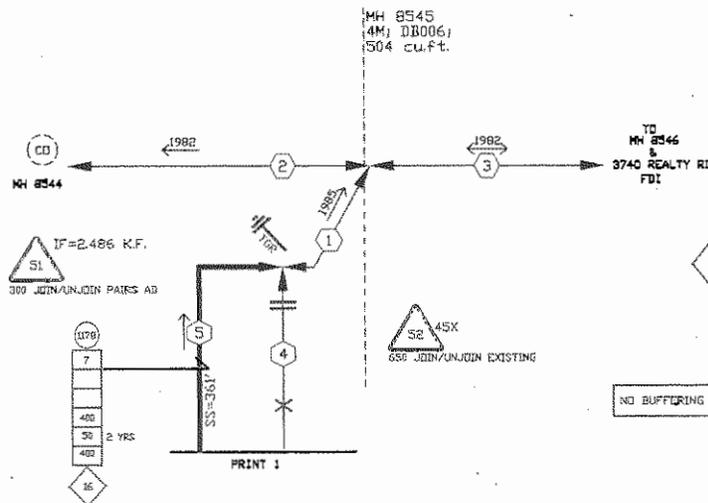
- 1 BKNM-400
SM, 20' 1985
E, 701-741
30, 1192-1192
E, 743-744
30, 1195-1196
E, 747-750
E, 951-998
E, 297-298
3740R, 1351-1400
30, 1751-1800
C, 151-175
30, 1976-1100
30, 701-706
30, 707-708
B, 189-189
30, 710-724
B, 1225-1225
30, 726-726
B, 287-287
30, 738-750
3740R, 1201-1300

- 2 CDMC-1500
SM, 1164' 1982
E, 951-1000
C, 101-175
30, 1076-1150
E, 231-281
30, 1182-1199
C, 300-300
A, 381-400
F, 401-425
A, 426-500
E, 581-756
30, 1651-1800
D, 981-1200
30, 701-724
B, 1225-1225
30, 726-736
B, 1237-1237
30, 739-750
30, 688-689
B, 1259-1400
DPC98, 1301-1350
D, 1451-1494
FH12, 118-20
FH12, 118-120

- 3 CDMC-1500
SM, 924' 1982
E, 1-100
E, 101-175
30, 1076-1150
E, 231-300
A, 301-400
F, 401-425
A, 426-500
E, 581-700
E, 701-715
A, 716-716
E, 717-800
E, 1751-1800
30, 1701-1750
D, 901-1200
30, 701-706
F, 1207-1209
30, 709-709
A, 1218-1211
30, 712-724
B, 1225-1225
30, 726-726
B, 1227-1227
30, 729-728
A, 1233-1233
30, 736-736
B, 1237-1237
30, 739-750
30, 688-689
FH12, 118-20
FH12, 118-120
B, 1259-1300
3740R, 1201-1300
DPC98, 1301-1350
3740R, 1351-1400

- 4 ALMV-400
45X, 94' 1986
(E, 701-741)
(30, 1192-1192)
(E, 743-744)
(30, 1195-1196)
(E, 747-750)
(E, 951-998)
(E, 297-298)
(3740R, 1351-1400)
(30, 1751-1800)
(C, 151-175)
(30, 1076-1100)
(30, 701-706)
(30, 707-708)
(B, 189-189)
(30, 710-724)
(B, 1225-1225)
(30, 726-726)
(B, 287-287)
(30, 738-750)
(3740R, 1201-1300)

- 5 ANMV-400
SC, 361'
3740R, 1201-1300
3740R, 1351-1400
A, 151-400



SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS
TASK 1 TO 32
MFRC SC

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 0.00 AERIAL N BURIED N

UTILITY CO
REP NAME
REP TEL NO.
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

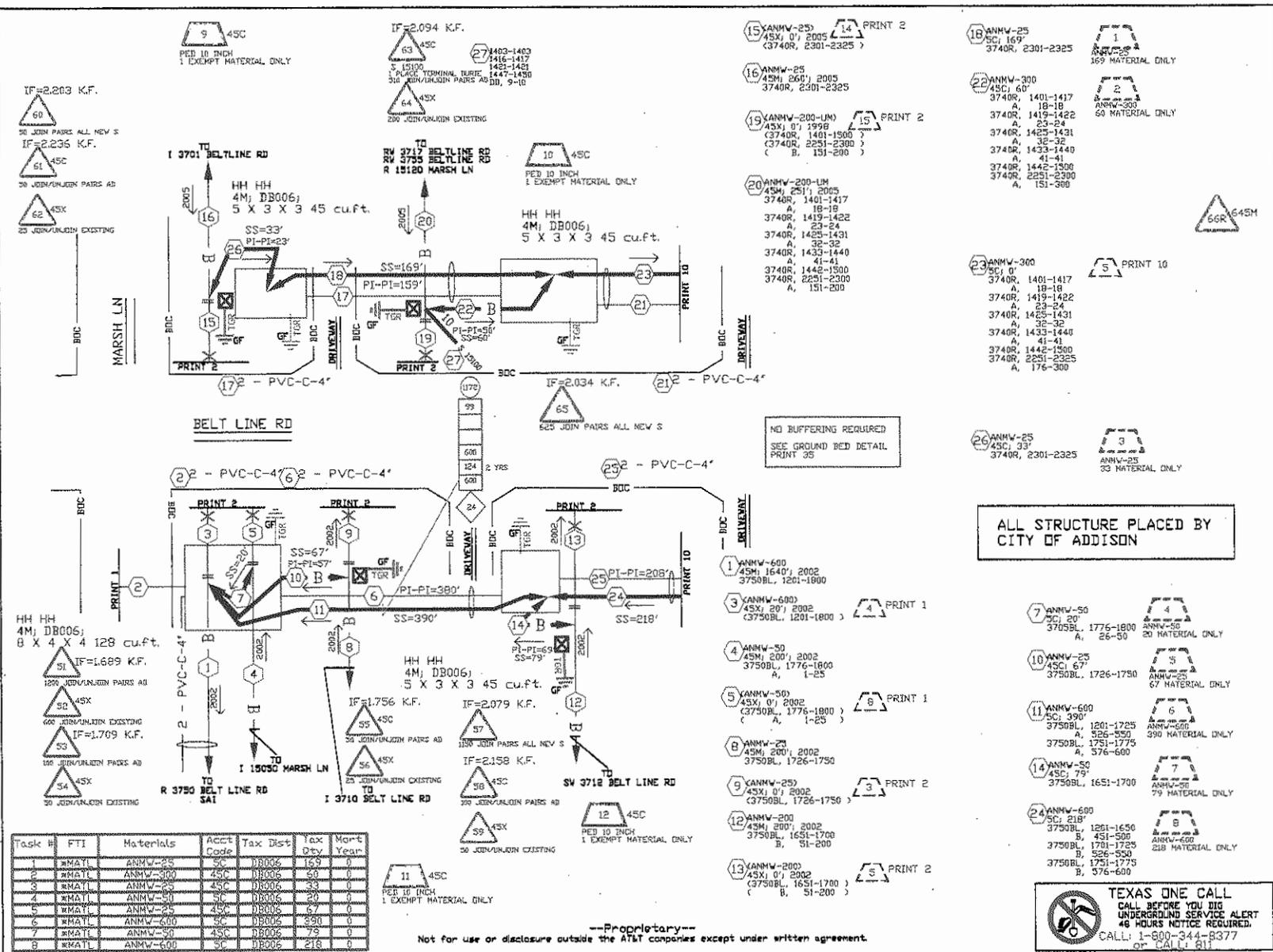
PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO. 8
NPA/NNX: 972-241 PRT:972241
EXCH. FARMERS BRANCH
TAX DIST. DB006
GEO LOC. TT8241
ENGR. CCX DRAWN BBS
TELEPHONE NO. (972) 470-5337
REC. REF. UC-38
MAP REF. 13D
SCALE NONE
ISSUE DATE
PROJ TITLE FB BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.

ENG CELL 214-215-8065

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mort Year
1	WMAFL	ANMV-400	SC	DB006	361	0
2	RMV	ALMV-400	45X	DB006	94	1986

--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 1 TO 66
 MFRC 5C

TRANSMISSION ZONE
 RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE BURIED Y
 KV 7.50 AERIAL Y

HIGHWAY PERMIT NO.
 Utility CO (E)C - UNDER ELECTRIC DELIVERY C
 REP NAME KEMP SPEARS
 REP TEL NO. (972) 888-1347
 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

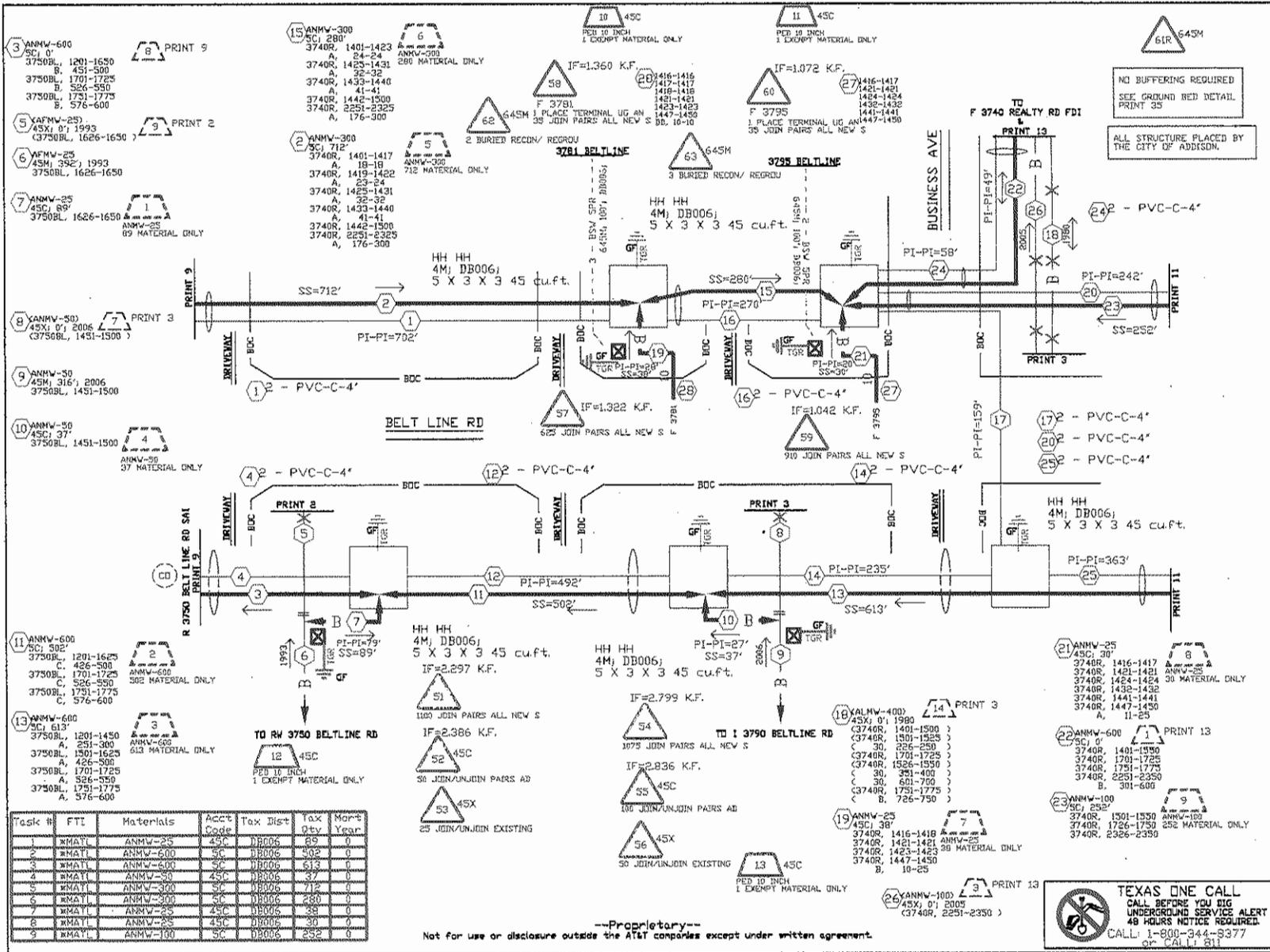
PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO.9
 NPA/NNX: 972-241 PRT:972241
 EXCH. FARMERS BRANCH
 TAX DIST. DB006
 GEO LOC. TT8241
 ENGR. CCX DRAWN BBS
 TELEPHONE NO. (972) 470-5337
 REC. REF. 697-645-45-2
 MAP REF. 13D
 SCALE NONE
 ISSUE DATE
 PROJ TITLE FB BELTLINE RD RELOCATION
 REV. NUMBER
 DATE REV.
 ENG CELL 214-215-8065

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mont Year
1	MMATL	ANMV-25	45C	DB006	159	0
2	MMATL	ANMV-300	45C	DB006	83	0
3	MMATL	ANMV-25	45C	DB006	20	0
4	MMATL	ANMV-50	45C	DB006	67	0
5	MMATL	ANMV-25	45C	DB006	890	0
6	MMATL	ANMV-600	5C	DB006	218	0
7	MMATL	ANMV-50	45C	DB006	79	0
8	MMATL	ANMV-600	5C	DB006	218	0

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

TEXAS ONE CALL
 CALL BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT
 48 HOURS NOTICE REQUIRED.
 CALL 1-800-344-8377
 or CALL 811



SPECIAL CIRCUITS N
6203 N
FORWARDED N
PERMIT Y
REQUIRED Y

OPERATING RANGE OF JOB STEPS
TASK 1 TO 63
MFRC SC

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL 1 BURIED 1

HIGHWAY PERMIT NO.

UTILITY CO. BEIC - ONEIER ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 889-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 10
NPA/NNX: 972-241 PRT: 972241
EXCH. FARMERS BRANCH
TAX DIST. DB006
GEO LOC. IT8241
ENGR. CCX DRAWN BBS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-45-4
MAP REF. 13B
SCALE NONE
ISSUE DATE
PROJ. TITLE FB BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

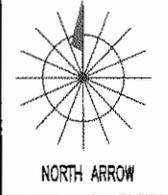
Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Month Year
1	RMATL	ANMW-25	45C	DB006	89	0
2	RMATL	ANMW-600	5C	DB006	502	0
3	RMATL	ANMW-600	5C	DB006	613	0
4	RMATL	ANMW-50	45C	DB006	37	0
5	RMATL	ANMW-300	5C	DB006	712	0
6	RMATL	ANMW-25	45C	DB006	33	0
7	RMATL	ANMW-25	45C	DB006	30	0
8	RMATL	ANMW-100	5C	DB006	252	0

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

TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL 1-800-344-9377
OR CALL 811

TERMS AFFECTED
 I COMMERCIAL/SURVEYOR PRIME CD CABINET
 P 4 TP AND L SUB STATION
 I 3945 BELT LINE RD PRIMECO CELL SITE

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS
 TASK 1 TO 57
 MFRC 5C

TRANSMISSION ZONE
 RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
 KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

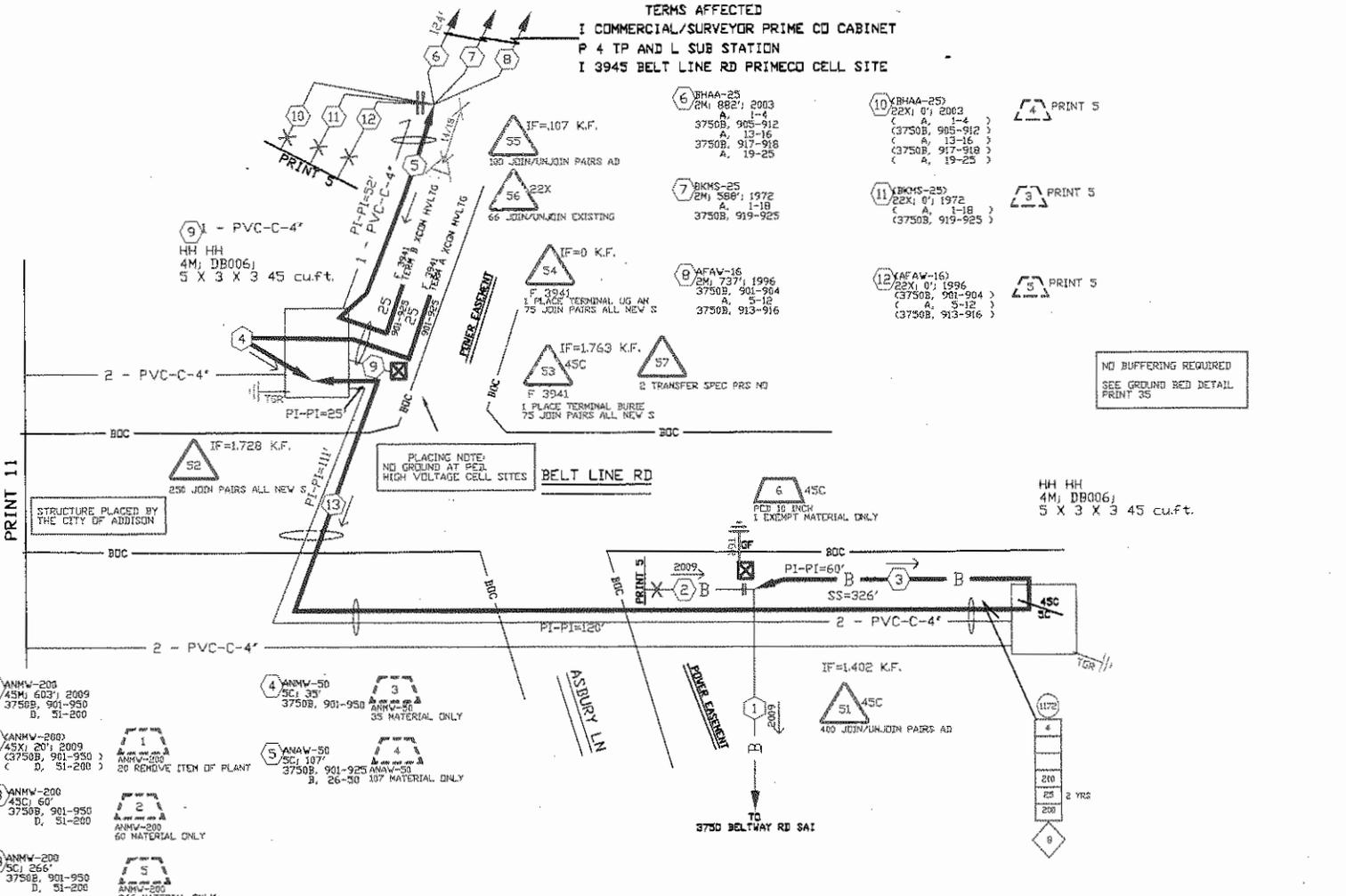
Utility CO DECC - DUNCAN ELECTRIC DELIVERY C
 REP NAME KEAP SPEERS
 REP TEL NO. (972) 888-1347
 POLE CONTACTS (+) 0 (-) 0

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

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

PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO. 12
 NPA/NNX: 972-241 PRT:972241
 EXCH. FARMERS BRANCH
 TAX DIST. DB006
 GEO LOC. TT8241
 ENGR. CCX DRAWN BBS
 TELEPHONE NO. (972) 470-5337
 REC. REF. 697-645-45-4
 MAP REF. 13D
 SCALE NONE
 ISSUE DATE
 PROJ TITLE FB BELTLINE RD RELOCATION
 REV. NUMBER
 DATE REV.
 ENG CELL 214-215-8065



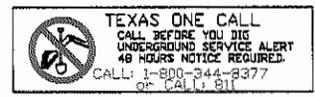
NO BUFFERING REQUIRED
 SEE GROUND BED DETAIL
 PRINT 35

PRINT 11

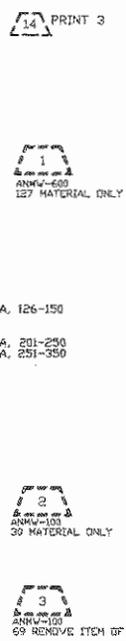
- 1 ANMW-200
45X 603' 2009
3750B, 901-950
B, 51-200
- 2 ANMW-200
45X 201 2009
(3750B, 901-950)
C, D, 51-200
- 3 ANMW-200
45C 60'
3750B, 901-950
D, 51-200
- 4 ANMW-50
5C 35'
3750B, 901-950
ANMW-50
B, 26-50 107 MATERIAL ONLY
- 5 ANMW-50
5C 107'
3750B, 901-925
ANMW-50
B, 26-50 107 MATERIAL ONLY
- 13 ANMW-200
5C 266'
3750B, 901-950
D, 51-200

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mont Year
1	+RMV	ANMW-200	45X	DB006	20	2009
2	XMATL	ANMW-200	45C	DB006	60	0
3	XMATL	ANMW-50	5C	DB006	35	0
4	XMATL	ANMW-50	5C	DB006	107	0
5	XMATL	ANMW-200	5C	DB006	266	0

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



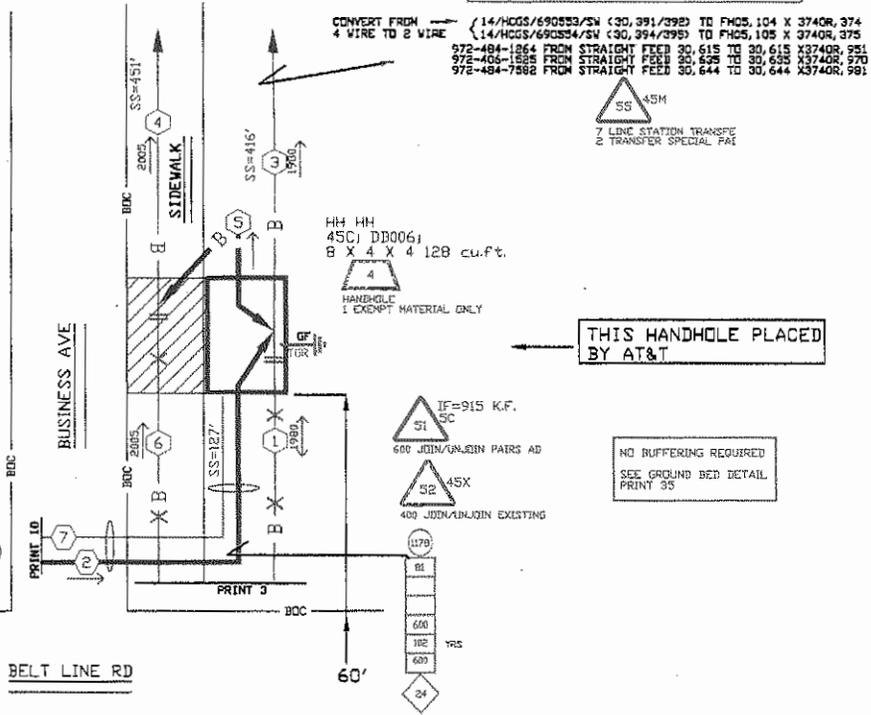
- 1 ANMW-400
45X 0' 1989
(3740R, 1401-1500)
(3740R, 1501-1525)
(30, 226-230)
(3740R, 1701-1725)
(3740R, 1526-1550)
(30, 351-400)
(30, 601-700)
(3740R, 1731-1775)
(B, 726-750)
- 2 ANMW-600
SC, 127
3740R, 1401-1550
3740R, 1701-1725
3740R, 1781-1795
3740R, 2251-2350
(B, 301-600)
- 3 ANMW-400
45X 416' 1989
3740R, 1401-1500
3740R, 1501-1525
(30, 226-230) A, 126-150
3740R, 1701-1725
3740R, 1526-1550
(30, 351-400) A, 201-230
(30, 601-700) A, 251-350
3740R, 1731-1775
(B, 726-750)
- 4 ANMW-100
45X 451' 2005
3740R, 2251-2350
- 5 ANMW-100
45C 30'
3740R, 2251-2350
- 6 ANMW-100
45X 69' 2005
(3740R, 2251-2350)



TO
F 3740 REALTY RD FDI

LST 2 STRAIGHT FEED 4 WIRE T1'S AND 3 PDTS LINES INTO THE 3740 REALTY RD FDI. ESPE WILL INITIATE HICAP ROLL FOR T1 WORD DOC CHANGES AS SHOWN BELOW.

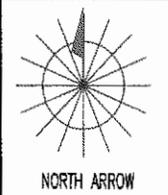
CONVERT FROM 4 WIRE TO 2 WIRE
(14/HGSS/690553/SW (30,391/392) TO FH05, 104 X 3740R, 374
(14/HGSS/690554/SW (30,394/395) TO FH05, 105 X 3740R, 375
972-484-1264 FROM STRAIGHT FEED 30, 615 TO 30, 615 X3740R, 951
972-484-1265 FROM STRAIGHT FEED 30, 625 TO 30, 625 X3740R, 970
972-484-1266 FROM STRAIGHT FEED 30, 644 TO 30, 644 X3740R, 981



THIS HANDHOLE PLACED BY AT&T

NO RUFFERING REQUIRED
SEE GROUND BED DETAIL
PRINT 35

CONDUIT PLACED BY CITY OF ADDISON

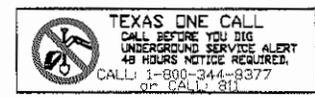


SPECIAL CIRCUITS N
8203 FORWARDED N
PERMIT REQUIRED Y

OPERATING RANGE OF JOB STEPS	
TASK 1	TO 55
MFRG 45C	
TRANSMISSION ZONE	
RZ 15	CZ 9 TAPER CODE 117206
CAUTION HIGH VOLTAGE	
KV 7.50	AERIAL Y BURIED Y
HIGHWAY PERMIT NO.	
Utility CO GEC - GUNDR ELECTRIC DELIVERY C REP NAME REP SPEARS REP TEL NO. (972) 988-1347 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 9478969	
TOT.PRINTS 35	PRINT NO. 13
NPA/NNX: 972-241	PRT: 972241
EXCH. FARMERS BRANCH	
TAX DIST. 08006	
GEO LOC. T18241	
ENGR. CCX	DRAWN DDS
TELEPHONE NO. (972) 470-5337	
REC. REF. 697-645-45-4	
MAP REF. 133	
SCALE NONE	
ISSUE DATE	
PROJ TITLE FB BELTLINE RD RELOCATION	
REV. NUMBER	
DATE REV.	
ENG CELL 214-215-8065	

Task #	FTI	Materials	Acct Code	Tax Dist	Tax Qty	Mart Year
1	*MATL	ANMW-600	5C	DB006	127	0
2	*MATL	ANMW-100	45C	DB006	30	0
3	*RMV	ANMW-100	45X	DB006	69	2005

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



F 3750 BELTWAY RD SAI

LOOP CARRIER									
OFFICE RT		SUPN-900				S.0db			
FACILITY	TEMP	LGTH	D.C. RESIST	1000HZ LOSS					
Day	K.F.	FACTOR	OHMS	PAC	1000HZ FAC	NE	db		
24 GA	68	4.06	51.9	216.9	.23	.44	1.74		
22 GA	100	0.99	35.1	34.7	.15	.34	0.24		
CO LOSS							0.00		
TOTAL KE	5.05		100	245.6	TOTAL SUP	09-02E	2.13		

LOOP ULTIMATE									
OFFICE CD		SUPN-1500				0.5db			
FACILITY	TEMP	LGTH	D.C. RESIST	1000HZ LOSS					
Day	K.F.	FACTOR	OHMS	PAC	1000HZ FAC	NE	db		
24 GA	68	27.14	51.9	1400.4	.23	.44	6.24		
CO LOSS							0.50		
TOTAL KE	27.14		100	1444.4	TOTAL SUP	09-02E	6.74		

LOOP PROPOSED									
OFFICE CD		SUPN-1500				0.5db			
FACILITY	TEMP	LGTH	D.C. RESIST	1000HZ LOSS					
Day	K.F.	FACTOR	OHMS	PAC	1000HZ FAC	NE	db		
24 GA	68	27.16	51.9	1409.9	.23	.44	6.25		
CO LOSS							0.50		
TOTAL KE	26.15		100	1480.2	TOTAL SUP	09-02E	7.09		

ASSIGNED PAIR FILL

CABLE READING	ASSIGNED PAIR		DEF. PRG.
	F	R	
3750BL1201-1000	99	99	1.6
3750BL2901-990	4	4	0
3750BL1202-1300	5	5	0
3750BL1203-0300	49	49	2.4
3750BL1204-1700	0	0	31
3750BL1205-1775	9	9	3
3750BL2024-2300	23	23	3

R 3750 BELT LINE RD SAI

LOOP CARRIER									
OFFICE RT		SUPN-900				S.0db			
FACILITY	TEMP	LGTH	D.C. RESIST	1000HZ LOSS					
Day	K.F.	FACTOR	OHMS	PAC	1000HZ FAC	NE	db		
24 GA	68	3.96	51.9	205.5	.23	.44	1.74		
CO LOSS							0.00		
TOTAL KE	3.96		100	205.5	TOTAL SUP	09-02E	1.74		

LOOP ULTIMATE									
OFFICE CD		SUPN-1500				0.5db			
FACILITY	TEMP	LGTH	D.C. RESIST	1000HZ LOSS					
Day	K.F.	FACTOR	OHMS	PAC	1000HZ FAC	NE	db		
24 GA	68	22.57	51.9	1171.4	.23	.44	5.19		
CO LOSS							0.50		
TOTAL KE	22.57		100	1144.3	TOTAL SUP	09-02E	5.69		

LOOP PROPOSED									
OFFICE CD		SUPN-1500				0.5db			
FACILITY	TEMP	LGTH	D.C. RESIST	1000HZ LOSS					
Day	K.F.	FACTOR	OHMS	PAC	1000HZ FAC	NE	db		
24 GA	68	20.00	51.9	1453.4	.23	.44	6.44		
CO LOSS							0.50		
TOTAL KE	20.00		100	1489.2	TOTAL SUP	09-02E	6.94		

3740 REALTY RD FDI

LOOP CARRIER									
OFFICE RT		SUPN-900				S.0db			
FACILITY	TEMP	LGTH	D.C. RESIST	1000HZ LOSS					
Day	K.F.	FACTOR	OHMS	PAC	1000HZ FAC	NE	db		
24 GA	68	2.75	51.9	142.5	.23	.44	1.21		
CO LOSS							0.00		
TOTAL KE	2.75		100	142.5	TOTAL SUP	09-02E	1.21		

- TERMINALS AFFECTED
 I 3959 BELT LINE RD 1 FL
 I 3800 BELT LINE RD FL 2 TERM B
 R 14944 VENTURE CT
 I 3800 BELT LINE RD FL 2 TERM A
 S 15100 MARSH LN
 S 15100 MARSH LN
 RW 3717 BELT LINE RD
 F 3781 BELT LINE RD
 I 3853 BELT LINE RD
 RW 3755 BELT LINE RD
 F 3853 BELT LINE RD
 I 3805 BELT LINE RD
 I 3701 BELT LINE RD
 I 3685 BELT LINE RD

3740 REALTY RD

- LS - FDI
 NCA-4650PR SH, DR006, SAI-4600
 In
 PG47, 1-31 B.P. 1-31
 PG47, 33-33 B.P. 32-32
 PG47, 32-32 B.P. 33-33
 PG47, 34-47 B.P. 34-47
 PG47, 35-35 B.P. 35-35
 PG47, 36-36 B.P. 36-36
 PG47, 37-37 B.P. 37-37
 FH02, 19-20 B.P. 97-98
 FH02, 33-120 B.P. 99-100
 PG47, 101-113 B.P. 101-113
 PG47, 210-218 B.P. 114-114
 PG47, 115-116 B.P. 115-116
 PG47, 130-138 B.P. 137-137
 PG47, 157-157 B.P. 158-158
 PG47, 159-171 B.P. 159-171
 PG47, 173-173 B.P. 172-172
 PG47, 172-172 B.P. 173-173
 PG47, 174-196 B.P. 174-196
 DD, 197-197 B.P. 197-197
 FH05, 18-18 B.P. 198-198
 DD, 199-200 B.P. 199-200
 PG47, 201-217 B.P. 201-217
 PG47, 114-114 B.P. 218-218
 PG47, 219-296 B.P. 219-296
 DD, 297-297 B.P. 297-297
 FH02, 110-118 B.P. 298-298
 DD, 299-300 B.P. 299-300
 PG47, 301-320 B.P. 301-320
 PG47, 48-48 B.P. 326-326
 PG47, 337-396 B.P. 337-396
 A, 397-400 B.P. 397-400
 PG47, 401-496 B.P. 401-496
 DD, 497-500 B.P. 497-500
 PG47, 501-596 B.P. 501-596
 DD, 597-600 B.P. 597-600
 PG47, 601-696 B.P. 601-696
 DD, 697-700 B.P. 697-700
 PG47, 701-796 B.P. 701-796
 DD, 797-800 B.P. 797-800
 FH02, 801-802 B.P. 801-802
 FH03, 117-117 B.P. 803-803
 FH05, 4-20 B.P. 804-830
 FH05, 101-116 B.P. 831-856
 FH05, 3-3 B.P. 867-867
 FH05, 110-130 B.P. 868-900
 DP09, 1301-1350 B.P. 901-930
 DD, 931-1200 B.P. 931-1200
 PG51, 630-630 B.P. 1201-1201
 PG51, 637-637 B.P. 1202-1202
 A, 390-390 B.P. 1203-1203
 FH11, 1-34 B.P. 1204-1234
 A, 110-110 B.P. 1234-1234
 DP09, 1235-2200 B.P. 1235-2200
 PG51, 51-100 B.P. 2201-2200
 DD, 1-275 B.P. 1-373
 DD, 374-425 B.P. 374-425
 3746R, 426-2330 B.P. 426-2330
 4600 PR SAI
 RZ IS CL 9

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



R 3750 BELT LINE RD
 LS - SAI
 NCA-2700

- SM, DR006, SAI-2708
 DD, 1601-1630 B.P. 1-50
 DD, 621-675 B.P. 21-75
 PG50, 776-800 B.P. 76-100
 PG50, 976-1000 B.P. 101-125
 DD, 106-120 B.P. 126-126
 DD, 804-904 B.P. 137-129
 DD, 130-130 B.P. 130-130
 DD, 806-907 B.P. 131-132
 DD, 133-133 B.P. 133-133
 DD, 809-809 B.P. 134-134
 DD, 135-142 B.P. 135-142
 DD, 810-810 B.P. 143-143
 DD, 144-144 B.P. 144-144
 DD, 820-820 B.P. 145-145
 DD, 146-147 B.P. 146-147
 DD, 823-824 B.P. 148-149
 DD, 150-153 B.P. 150-153
 DD, 829-830 B.P. 154-155
 DD, 156-156 B.P. 156-156
 DD, 832-833 B.P. 157-158
 DD, 837-837 B.P. 159-159
 DD, 835-835 B.P. 160-160
 DD, 161-161 B.P. 161-161
 DD, 837-837 B.P. 162-162
 DD, 163-169 B.P. 163-169
 DD, 845-845 B.P. 170-172
 DD, 171-171 B.P. 171-171
 DD, 847-849 B.P. 172-173
 DD, 174-175 B.P. 174-175
 DD, 676-676 B.P. 176-176
 DD, 684-684 B.P. 177-177
 DD, 686-686 B.P. 178-178
 DD, 179-200 B.P. 179-200
 PG50, 1-94 B.P. 201-296
 FH02, 18-18 B.P. 297-297
 DD, 298-300 B.P. 298-300
 PG50, 101-156 B.P. 301-396
 DD, 397-400 B.P. 397-400
 FH02, 59-59 B.P. 401-401
 DD, 402-408 B.P. 402-408
 DD, 423-426 B.P. 423-426
 DD, 429-430 B.P. 429-428
 PG50, 431-496 B.P. 431-496
 DD, 497-500 B.P. 497-500
 FH02, 159-159 B.P. 501-501
 DD, 502-508 B.P. 502-508
 FH02, 109-117 B.P. 509-517
 DD, 518-519 B.P. 518-519
 FH02, 20-24 B.P. 520-524
 DD, 525-526 B.P. 525-526
 FH02, 107-120 B.P. 527-528
 DD, 529-530 B.P. 529-530
 PG50, 701-750 B.P. 531-600
 FH09, 176-200 B.P. 601-625
 DP09, 226-250 B.P. 626-630
 DP09, 1126-1175 B.P. 631-700
 DD, 701-900 B.P. 701-900
 DD, 1-1000 B.P. 1-1800
 Dvt: 3750BL, 2700 PR SAI
 RZ IS CL 9

- TERMS AFFECTED
 I 3790 BELT LINE RD
 RW 3750 BELT LINE RD
 I 3820 BELT LINE RD
 I 3910 BELT LINE RD
 I 3870 BELT LINE RD
 SW 3712 BELT LINE RD
 I 3710 BELT LINE RD
 I 15200 MARSH LN
 F 15050 MARSH LN

R 3750
 9 HICAP/SPECIAL CIRCUIT
 13 SPECIAL CKT-CUT/BUZZ
 579 COPPER DC CONFORMANCE

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED N

NORTH ARROW

OPERATING RANGE OF JOB STEPS
 TASK 51 TO 53
 MFRC SC
 TRANSMISSION ZONE
 RZ 0 CZ 0 TAPER CODE 117206
 CAUTION HIGH VOLTAGE BURIED N
 KV 0.0 AERIAL N

UTILITY CO
 REP NAME
 REP TEL NO.
 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

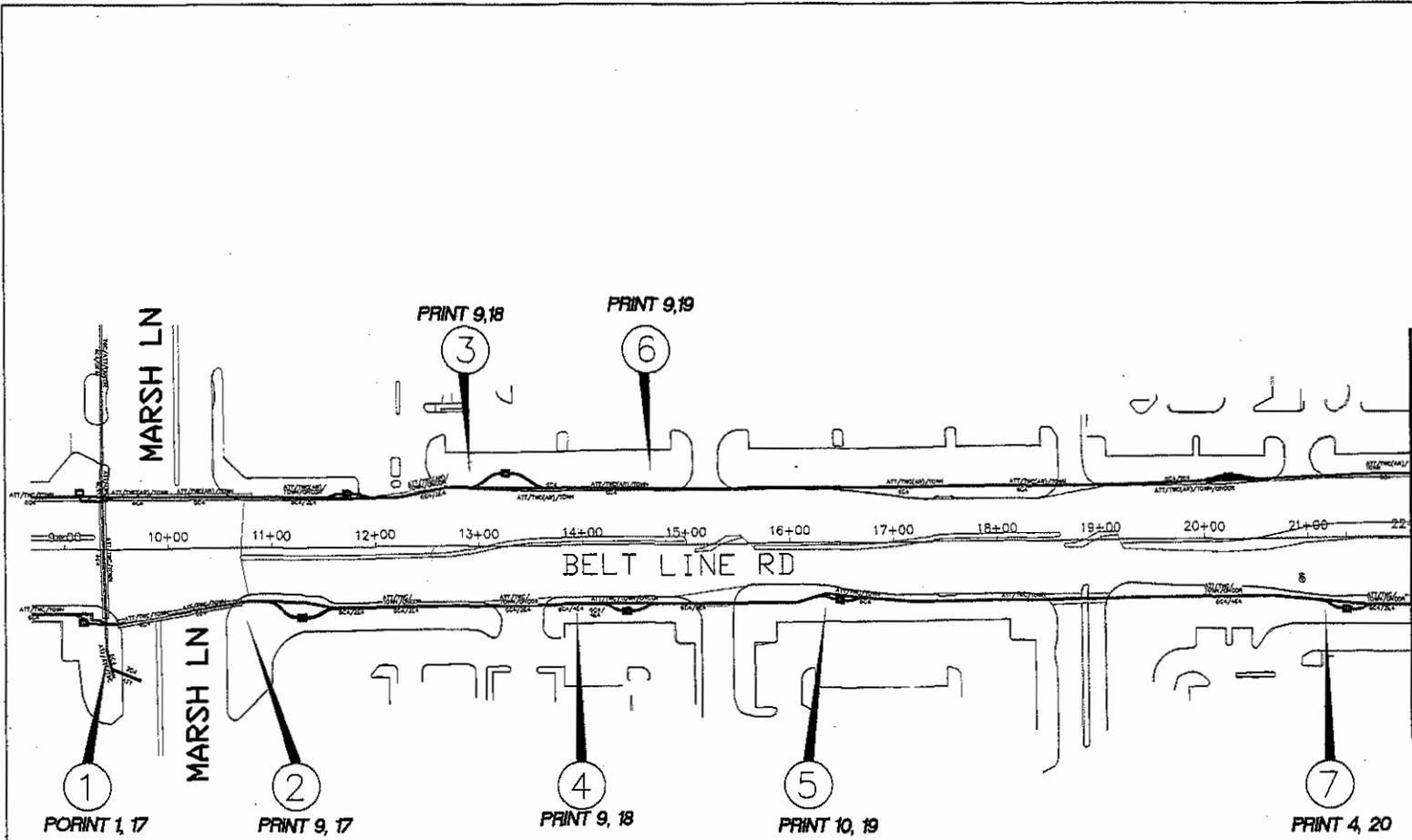
PROJECT NO 9478969
 TOT. PRINTS 35 PRINT NO. 14
 NPA/NNX: 972-241 PRT: 972241
 EXCH. FARMERS BRANCH
 TAX DIST. 03006
 GEO LOC. TT8241
 ENGR. CCX DRAWN BBS
 TELEPHONE NO. (972) 470-5337
 REC. REF. 697-645-45-2
 MAP REF. 13D
 SCALE NONE
 ISSUE DATE
 PROJ TITLE FB BELT LINE RD RELOCATION
 REV. NUMBER
 DATE REV.
 ENG CELL 214-215-8065

F 3750 BELTWAY RD
 LS - SAI
 NCA-3000 SH, DR006, SAI-3000
 In

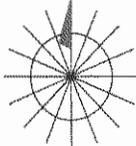
- SM, DR006, SAI-3000
 DD, 1501-1707 B.P. 1-207
 DD, 1728-1728 B.P. 208-208
 DD, 1769-1767 B.P. 209-220
 DD, 1769-1768 B.P. 221-220
 DD, 1729-1730 B.P. 221-220
 DD, 231-290 B.P. 221-290
 DD, 1499-1499 B.P. 291-300
 DD, 1499-1499 B.P. 301-383
 DD, 1435-1434 B.P. 384-394
 DD, 395-395 B.P. 395-395
 DD, 1436-1490 B.P. 396-398
 DD, 1454-1454 B.P. 399-399
 DD, 1500-1500 B.P. 400-400
 PG50, 301-375 B.P. 401-475
 PG50, 676-696 B.P. 476-496
 FH02, 8-6 B.P. 497-498
 DD, 499-625 B.P. 499-625
 DP09, 901-1000 B.P. 626-725
 DP09, 1026-1026 B.P. 726-730
 PG50, 1126-1200 B.P. 731-825
 DP09, 476-525 B.P. 826-875
 DD, 876-900 B.P. 876-900
 3750BN D, 1-100 B.P. 901-1000
 FH09, 51-75 B.P. 1001-1025
 FH09, 151-163 B.P. 1026-1028
 DD, 1029-1100 B.P. 1029-1100
 3750BN D, 101-200 B.P. 1101-1200
 3750BN D, 201-400 B.P. 1201-1400
 Dvt: 3750B, 1-1200 B.P. 1-1200
 3750BN L, 1-400 B.P. 1201-1600
 3000 PR SAI
 RZ IS CL 9

TERMS AFFECTED
 I COMMERCIAL SURVEYOR PRIME CO CABINET
 F 3941 BELT LINE RD
 P 4 TR AND L SUB STATION
 I 3945 BELT LINE RD PRIME CO CELL SITE
 F 3941 BELT LINE RD BOX

F 3750
 2 HICAP/SPECIAL CIRCUIT
 48 COPPER DC CONFORMANCE

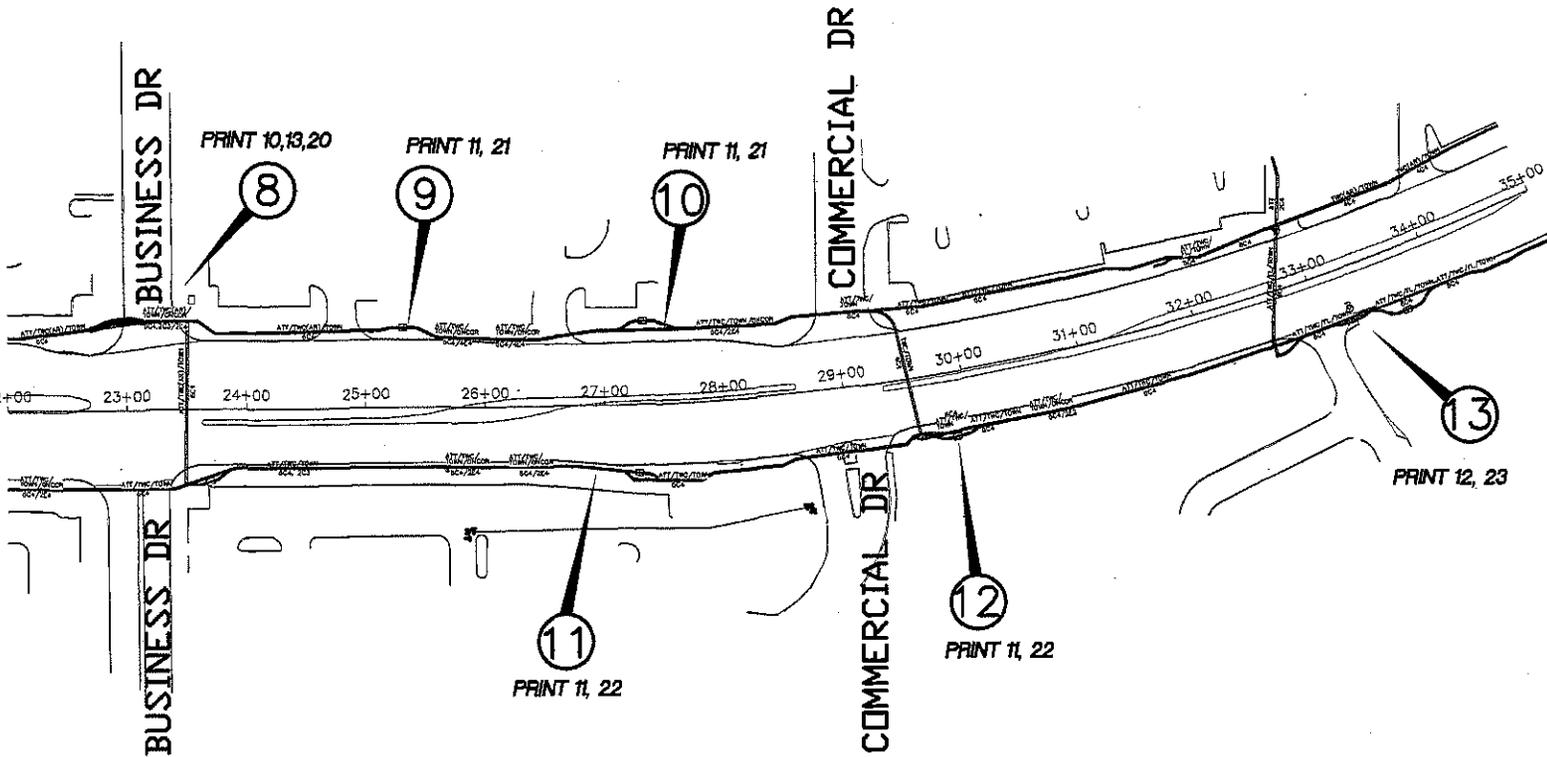


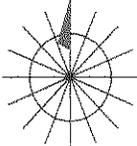
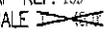
SEE PRINT #16

SPECIAL CIRCUITS	N	 NORTH ARROW
6203 FORWARDED	N	
PERMIT REQUIRED	Y	
OPERATING RANGE OF JOB STEPS		
TASK	TO	
WFRC SC		
TRANSMISSION ZONE		
RZ 15	CZ 9	TAPER CODE 117206
CAUTION HIGH VOLTAGE		
KV 7.50	AERIAL Y	BURIED Y
HIGHWAY PERMIT NO.		
Utility CO DEBC - DIXON ELECTRIC DELIVERY C		
REP NAME KEMP SPEARS		
REP TEL NO. (972) 888-1347		
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 9478969		
TOT. PRINTS 35	PRINT NO. 15	
NPA/NNX: 972-241	PRT: 972241	
EXCH. FARMERS BRANCH		
TAX DIST. D8006		
GEO LOC. TT8241		
ENGR. CCX	DRAWN BBS	
TELEPHONE NO. (972) 470-5337		
REC. REF. 697-645-45-2		
MAP REF. 13D		
SCALE $\frac{1}{4}'' = 1'$		
ISSUE DATE		
PROJ TITLE FB BELT LINE RD RELOCATION		
REV. NUMBER		
DATE REV.		
ENG CELL 214-215-8065		

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

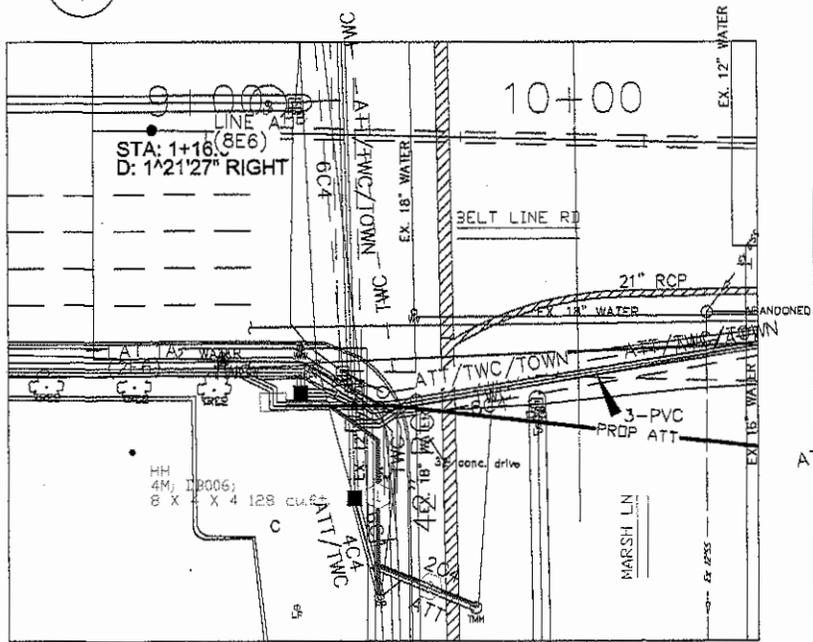
SEE PRINT #15



SPECIAL CIRCUITS	N	 NORTH ARROW
6203 FORWARDED	N	
PERMIT REQUIRED	Y	
OPERATING RANGE OF JOB STEPS		
TASK	_____	TO _____
MFCR 50		
TRANSMISSION ZONE	RZ 15 CZ 9 TAPER CODE 117206	
CAUTION HIGH VOLTAGE	KV 7.50 AERIAL BURIED Y	
HIGHWAY PERMIT NO.		
UTILITY CO	BEMC - BENDOR ELECTRIC DELIVERY C	
REP NAME	KEMP SPEARS	
REP TEL NO.	(972) 808-1347	
POLE CONTACTS	(+) 0	(-) 0
UTILITY CO	BEMC - BENDOR ELECTRIC DELIVERY C	
REP NAME	KEMP SPEARS	
REP TEL NO.	(972) 808-1347	
POLE CONTACTS	(+) 0	(-) 0
UTILITY CO	BEMC - BENDOR ELECTRIC DELIVERY C	
REP NAME	KEMP SPEARS	
REP TEL NO.	(972) 808-1347	
POLE CONTACTS	(+) 0	(-) 0
PROJECT NO 9478969		
TOT. PRINTS	35	PRINT NO. 16
NPA/NNX:	972-241	PRT: 972241
EXCH. FARMERS BRANCH		
TAX DIST. D8006		
GEO LOC. T18241		
ENGR.	CCX	DRAWN BBS
TELEPHONE NO. (972) 470-5337		
REC. REF. 697-645-45-2		
MAP REF. 130		
SCALE 		
ISSUE DATE		
PROJ TITLE FB BELTLINE RD RELOCATION		
REV. NUMBER		
DATE REV.		
ENG CELL 214-215-8065		

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

1

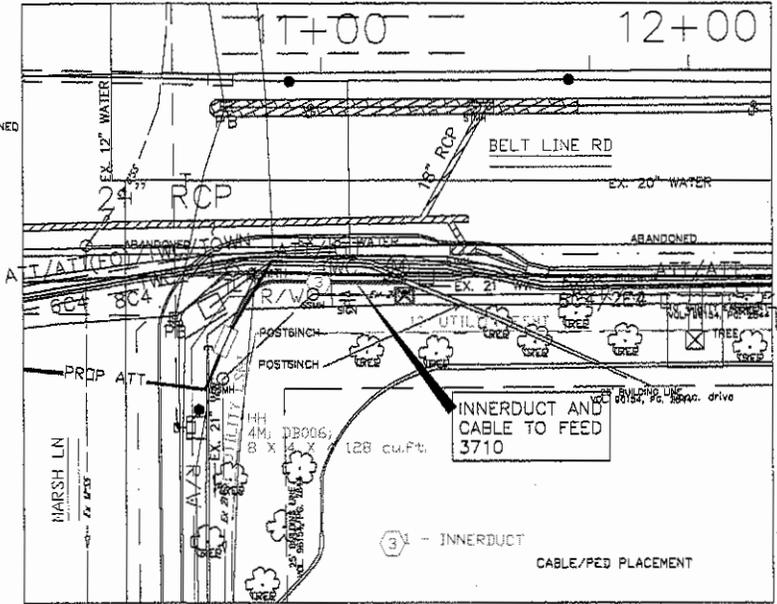


① - PVC-C-4"

② - PVC-C-4"

STRUCTURE PLACED BY CITY OF ADDISON

2



INNERDUCT AND CABLE TO FEED 3710

CABLE/PED PLACEMENT

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS
 TASK _____ TO _____
 MFRC 8450

TRANSMISSION ZONE
 RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
 KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO: IEDC - INDIAN ELECTRIC DELIVERY CO
 REP NAME: KEMP SPEARS
 REP TEL NO. (972) 888-1347
 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 9478969

TOT. PRINTS 35 PRINT NO. 17
 NPA/NNX: 972-241 PRT: 972241
 EXCH. FARMERS BRANCH
 TAX DIST. 08006
 GEO LOC. T8241
 ENGR. CCX DRAWN BBS
 TELEPHONE NO. (972) 470-5337
 REC. REF. 697-645-45-2
 MAP REF. 13D
 SCALE 1" = 40.0'
 ISSUE DATE
 PROJ TITLE FB BELT LINE RD RELOCATION
 REV. NUMBER
 DATE REV.

NOT TO SCALE

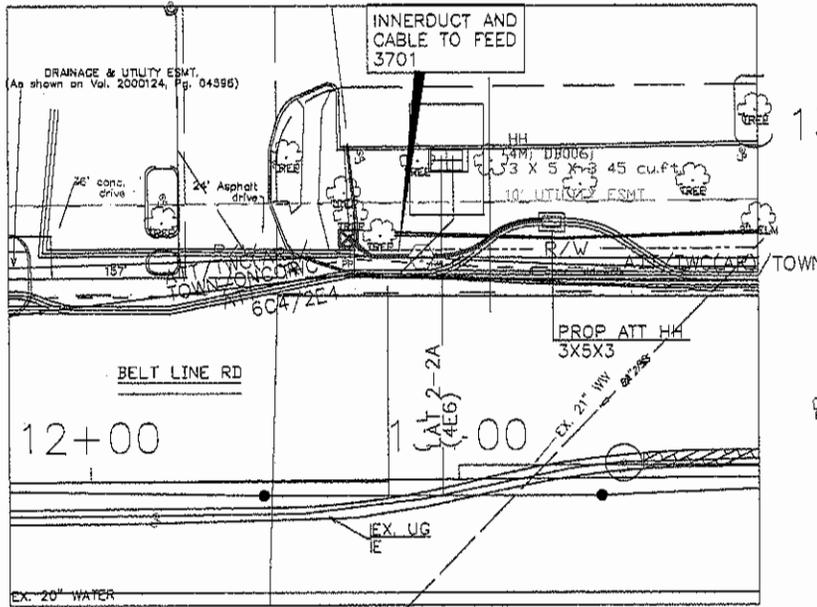
---Proprietary---
 Not for use or disclosure outside the AT&T companies except under written agreement.

ENG CELL 214-215-8065

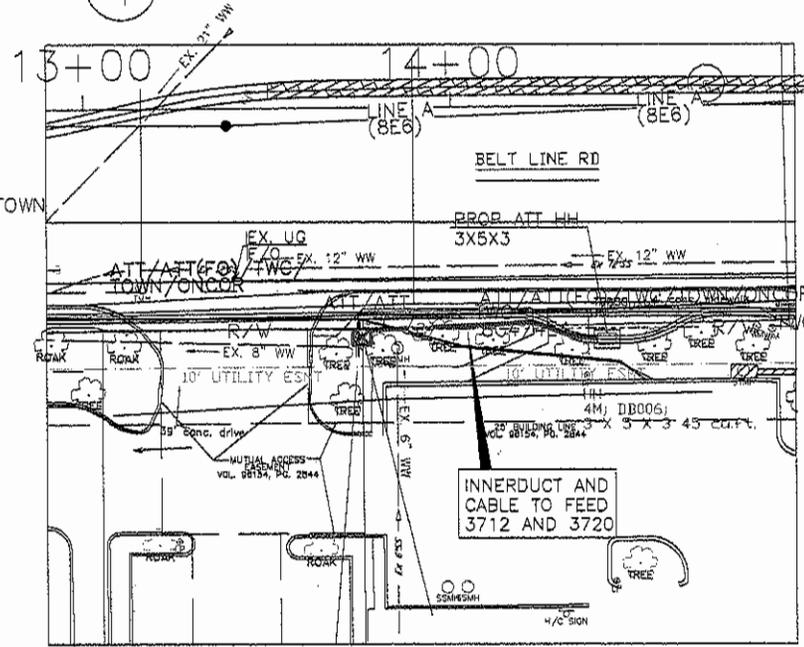
① - INNERDUCT

PLACE CABLE/PED

3



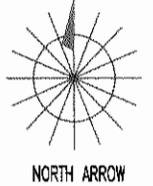
4



② - INNERDUCT

PLACE CABLE/PED

SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC 045C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

UTILITY CO DEBC - DUNCAN ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 886-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 18
NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. 08006

GEO LOC. T18241

ENGR. CCX

DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2

MAP REF. 130

SCALE 1" = 40.0'

ISSUE DATE

PROJ TITLE FB BELTLINE RD RELOCATION

REV. NUMBER

DATE REV.

EMG CELL 214-215-8065

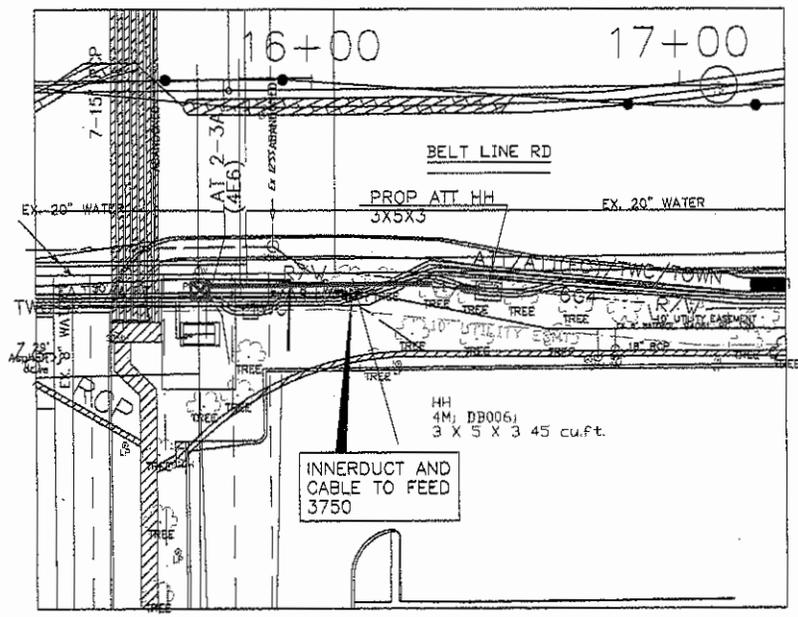
--Proprietary--

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

NOT TO SCALE

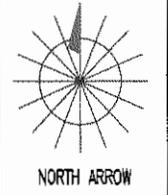
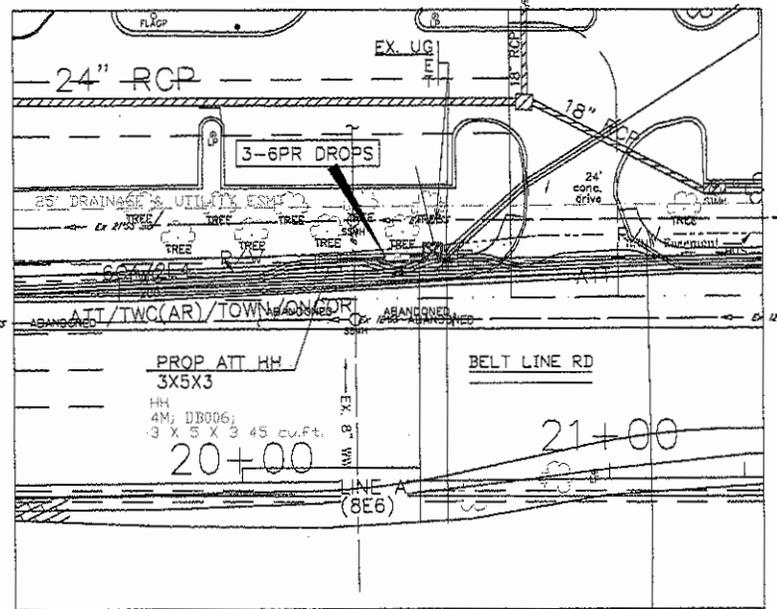
① - INNERDUCT PLACE CABLE/PED

5



② - INNERDUCT PLACE CABLE/PED

6



SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED Y

OPERATING RANGE OF JOB STEPS
TASK _____ TO _____
MFRC 845C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO DEIC - ENDR ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 886-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 19
NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH
TAX DIST. DB006

GEO LOC. TT8241
ENGR. CCX DRAWN BOS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2
MAP REF. 130

SCALE 1" = 40.0'

ISSUE DATE
PROJ TITLE FB BELTLINE RD RELOCATION

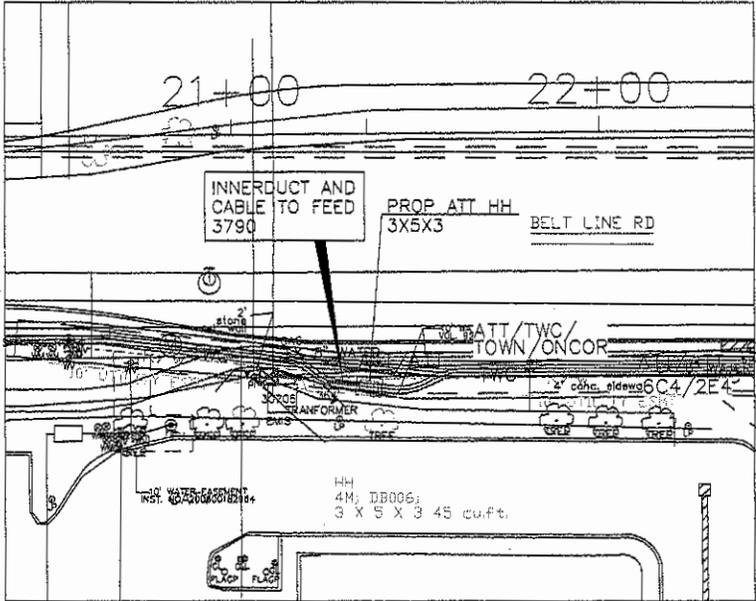
REV. NUMBER
DATE REV.

ENG CELL 214-215-8065

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

NOT TO SCALE

7

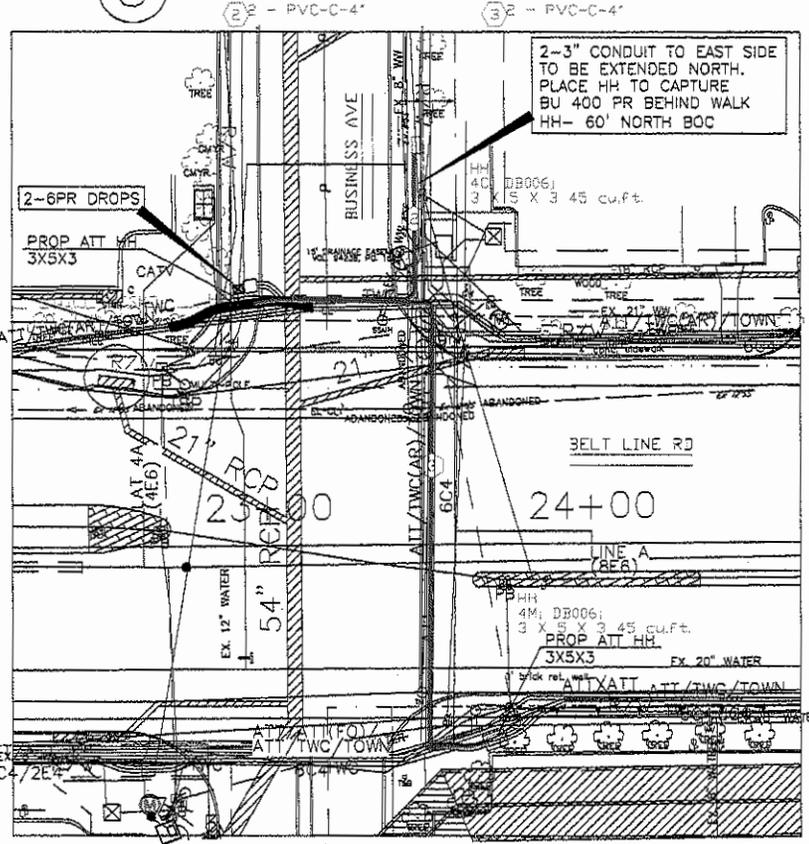


1 - INNERDUCT

PLACE CABLE/PED

8

STRUCTURE PLACED BY CITY OF ADDISON



NOT TO SCALE

TEXAS ONE CALL
 CALL BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT
 48 HOURS NOTICE REQUIRED.
 CALL: 1-800-344-8377
 or CALL: 811

SPECIAL CIRCUITS N
 6203 FORWARDED N
 PERMIT REQUIRED Y



OPERATING RANGE OF JOB STEPS
 TASK _____ TO _____
 MFRC DESC _____

TRANSMISSION ZONE
 RZ 15 CZ 9 TAPER CODE L17206

CAUTION HIGH VOLTAGE
 KV 7.50 AERIAL BURIED Y

HIGHWAY PERMIT NO. _____

Utility CO BDEC - DISTR ELECTRIC DELIVERY C
 REP NAME KEMP SPEARS
 REP TEL NO. (972) 888-1347
 POLE CONTACTS (+) 0 (-) 9

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

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

PROJECT NO 9478969

TOT.PRINTS 35 PRINT NO. 20
 NPA/NNX: 972-241 PRT:972241

EXCH. FARMERS BRANCH
 TAX DIST. DB006

GEN LOC. T18241
 ENGR. CCX DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2
 MAP REF. 130

SCALE 1" = 40.0'

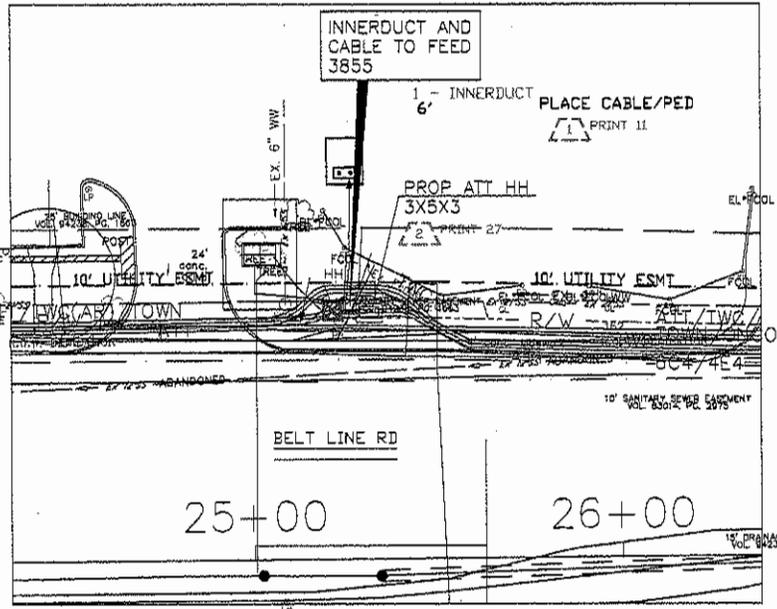
ISSUE DATE
 PROJ TITLE FB BELTLINE RD RELOCATION

REV. NUMBER
 DATE REV.

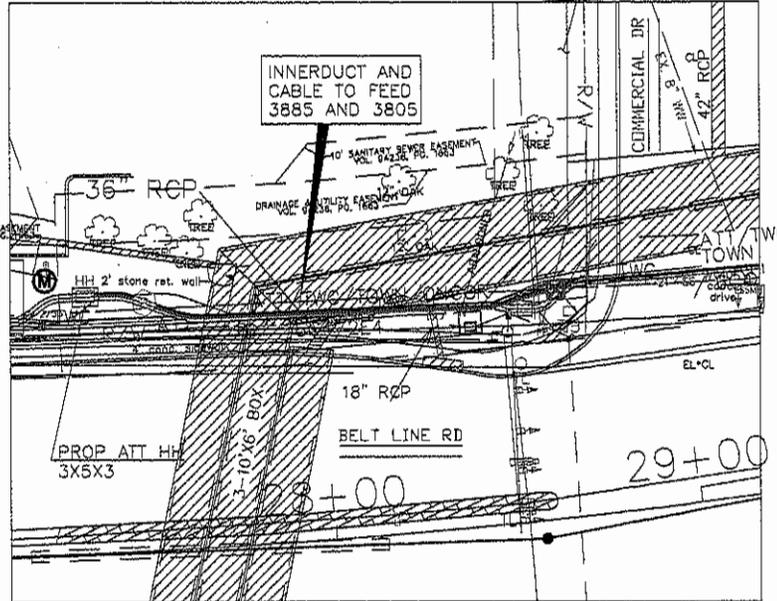
ENG CELL 214-215-8065

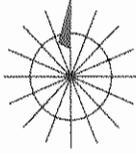
--Proprietary--
 Not for use or disclosure outside the AT&T companies except under written agreement.

9



10



SPECIAL CIRCUITS	N	 <p>NORTH ARROW</p>
6203 FORWARDED	N	
PERMIT REQUIRED	Y	

OPERATING RANGE OF JOB STEPS	
TASK _____	TO _____
MFRC 045C	

TRANSMISSION ZONE	
RZ 13	CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE	
KV 7.50	AERIAL ? BURIED Y
HIGHWAY PERMIT NO.	

UTILITY CO	DEBC - DINCOR ELECTRIC DELIVERY C
REP NAME	KEMP SPEARS
REP TEL NO.	(972) 888-1347
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 9478969

TOT.PRINTS 35	PRINT NO.21
NPA/NNX: 972-241	PRT:972241
EXCH. FARMERS BRANCH	
TAX DIST. 10006	
GEO LOC. TT8241	
ENGR. CCX	DRAWN BBS
TELEPHONE NO. (972) 470-5337	
REC. REF. 697-645-45-2	
MAP REF. 13D	
SCALE 1" = 40.0'	
ISSUE DATE	
PROJ TITLE FB BELTLINE RD RELOCATION	
REV. NUMBER	
DATE REV.	
ENG CELL 214-215-8065	

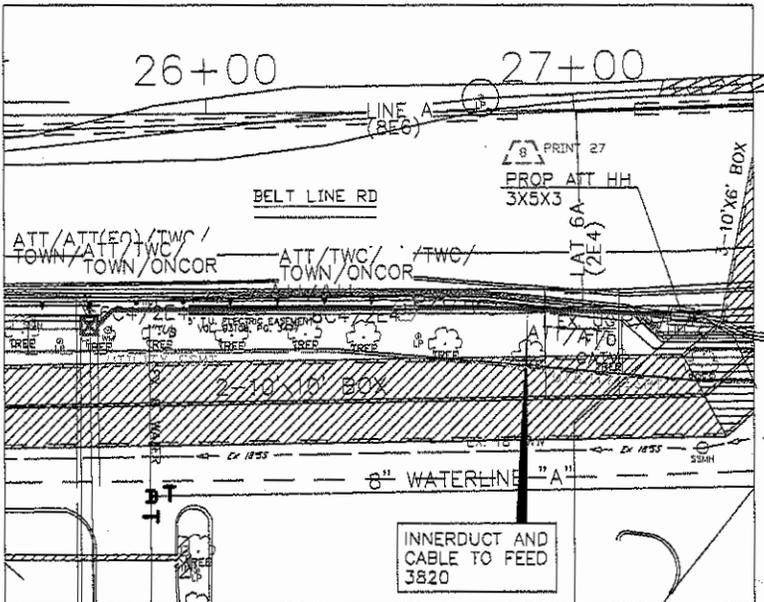
--Proprietary--
Not for use or disclosure outside the AT&T companies except under written agreement.

11

① - INNERDUCT 162'

PLACE CABLE & PED

PRINT 11



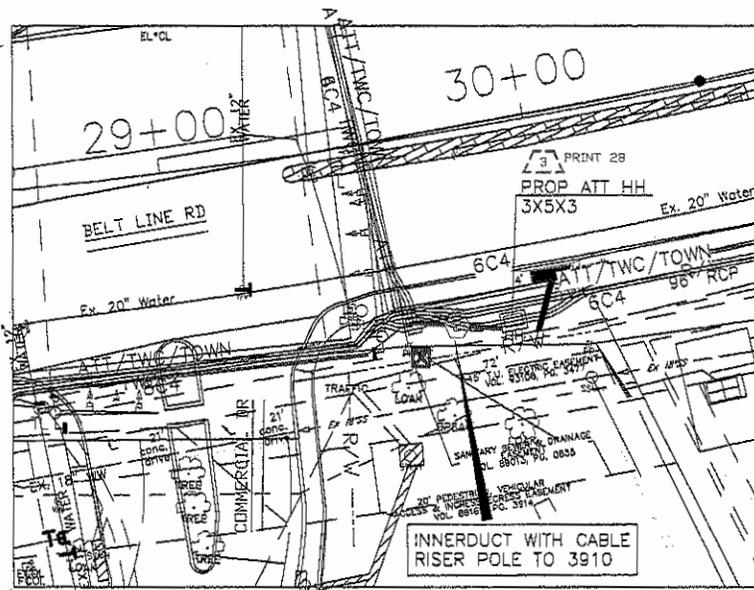
INNERDUCT AND CABLE TO FEED 3820

12

② - INNERDUCT 30'

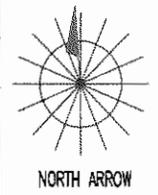
PLACE CABLE & PED

PRINT 11



INNERDUCT WITH CABLE RISER POLE TO 3910

SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED N



OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC 045C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO BEBC - ONCOR ELECTRIC DELIVERY C
REP NAME KEMP SPICARS
REP TEL NO. (972) 088-1347
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 9470969

TOT.PRINTS 35 PRINT NO.22
NPA/NNX: 972-241 PRT:972241
EXCH. FARMERS BRANCH
TAX DIST. 88006
GEO LOC. T18241
ENGR. CCX DRAWN BBS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-45-2
MAP REF. 130
SCALE 1" = 40.0'
ISSUE DATE
PROJ TITLE FB BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

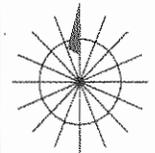
Not for use or disclosure outside the AT&T companies except under written agreement.

LOCATE ALL UTILITIES
BEFORE PLACING



TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL 1-800-344-8377
OR CALL 811

SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED N



NORTH ARROW

① 2 - PVC-C-4"

2ea X 697' = 1394'

② 2 - PVC-C-4"

HH
4C; DB006;
3 X 5 X 3 45 cu.ft.

Conc. parking

703 - CC
697 - WV

BELTLINE RD

SEE PRINT #24

SEE PRINT #26

14+00

15+00

16+00

17+00

ATT/ATT(FO)/TWC/
TOWN/ONCOR

ATT/ATT(FO)/TWC/
TOWN

③ PRINT 24

③ 2 - PVC-C-4"

HH
4C; DB006;
3 X 5 X 3 45 cu.ft.

2ea X 204' = 408'

④ 2 - PVC-C-4"

810 - CC
804 - WV

HH
4C; DB006;
3 X 5 X 3 45 cu.ft.

2ea X 487' = 974'

⑤ 2 - PVC-C-4"

493 - CC
497 - WV

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFCR 4C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL BURIED

HIGHWAY PERMIT NO.

Utility CO: BEIC - BROWNS ELECTRIC DELIVERY CO
REP NAME: WEMP SPEARS
REP TEL NO. (972) 888-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 25
NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. DB006

GEO LOC. TT8241

ENGR. CCX DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2

MAP REF. 130

SCALE 1" = 40.0'

ISSUE DATE

PROJ TITLE FB BELTLINE RD RELOCATION

REV. NUMBER

DATE REV.

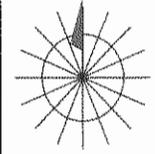
ENG CELL 214-215-8065

--Proprietary--

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

LOCATE ALL UTILITIES
BEFORE PLACING

TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL: 1-800-344-8377
OR CALL: 811



NORTH ARROW

SPECIAL
CIRCUITS N
6203 N
FORWARDED N
PERMIT
REQUIRED N

OPERATING RANGE OF JOB STEPS
TASK _____ TO _____
MFRC 40

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE L17206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

UTILITY CO OEDC - ONCOR ELECTRIC DELIVERY CO
REP NAME KEMP SPEARS
REP TEL NO. (972) 889-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 27
NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH
TAX DIST. DB006
GEO LOC. TT8241

ENGR. CCX DRAWN BDS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-45-2

MAP REF. 130
SCALE 1" = 40.0'
ISSUE DATE

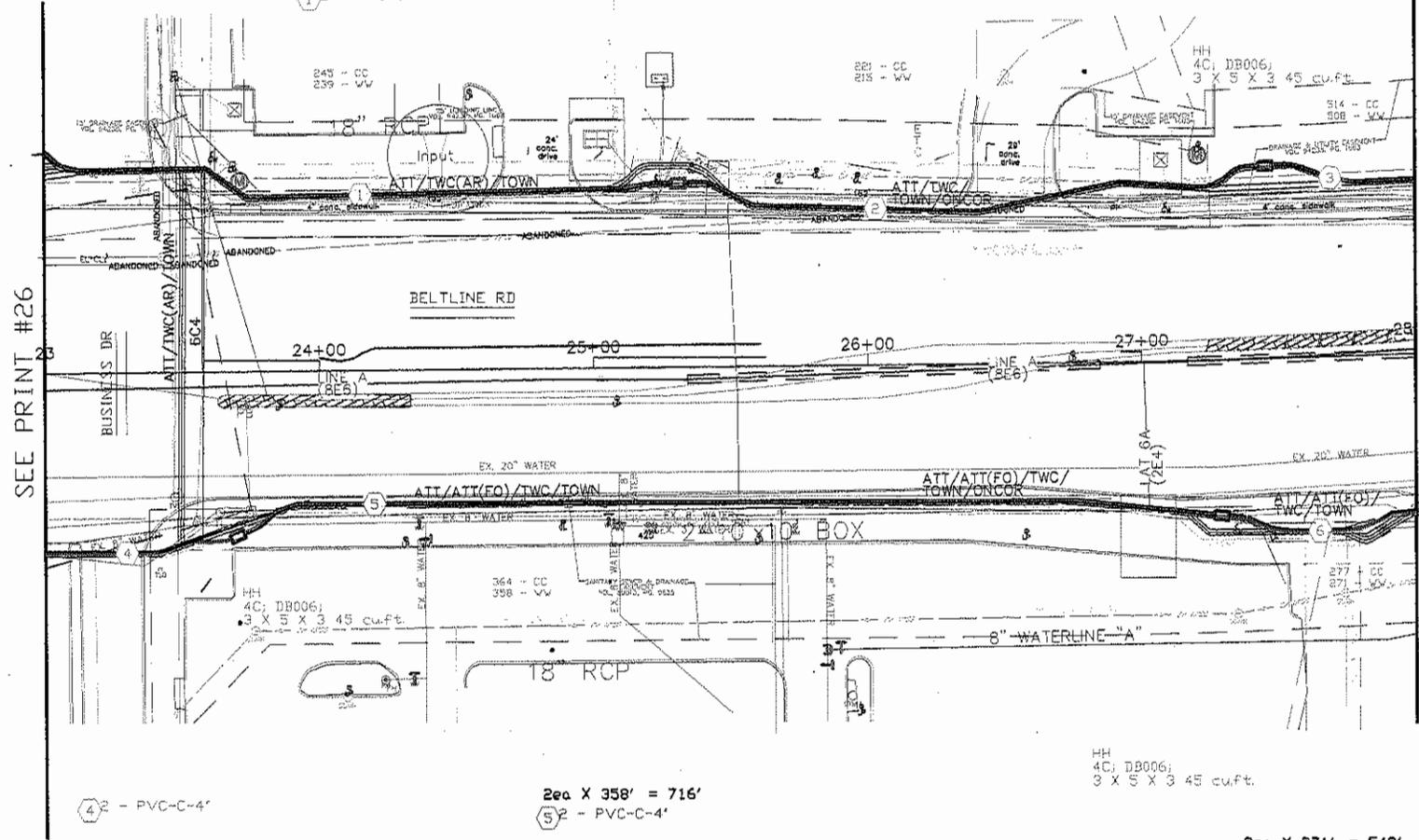
PROJ TITLE FB BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

2ea X 239' = 478'
① 2 - PVC-C-4"

HH
4C; DB006;
3 X 5 X 3 45 cu.ft.

2ea X 215' = 430'
② 2 - PVC-C-4"

2ea X 508' = 1016'
③ 2 - PVC-C-4"



SEE PRINT #26

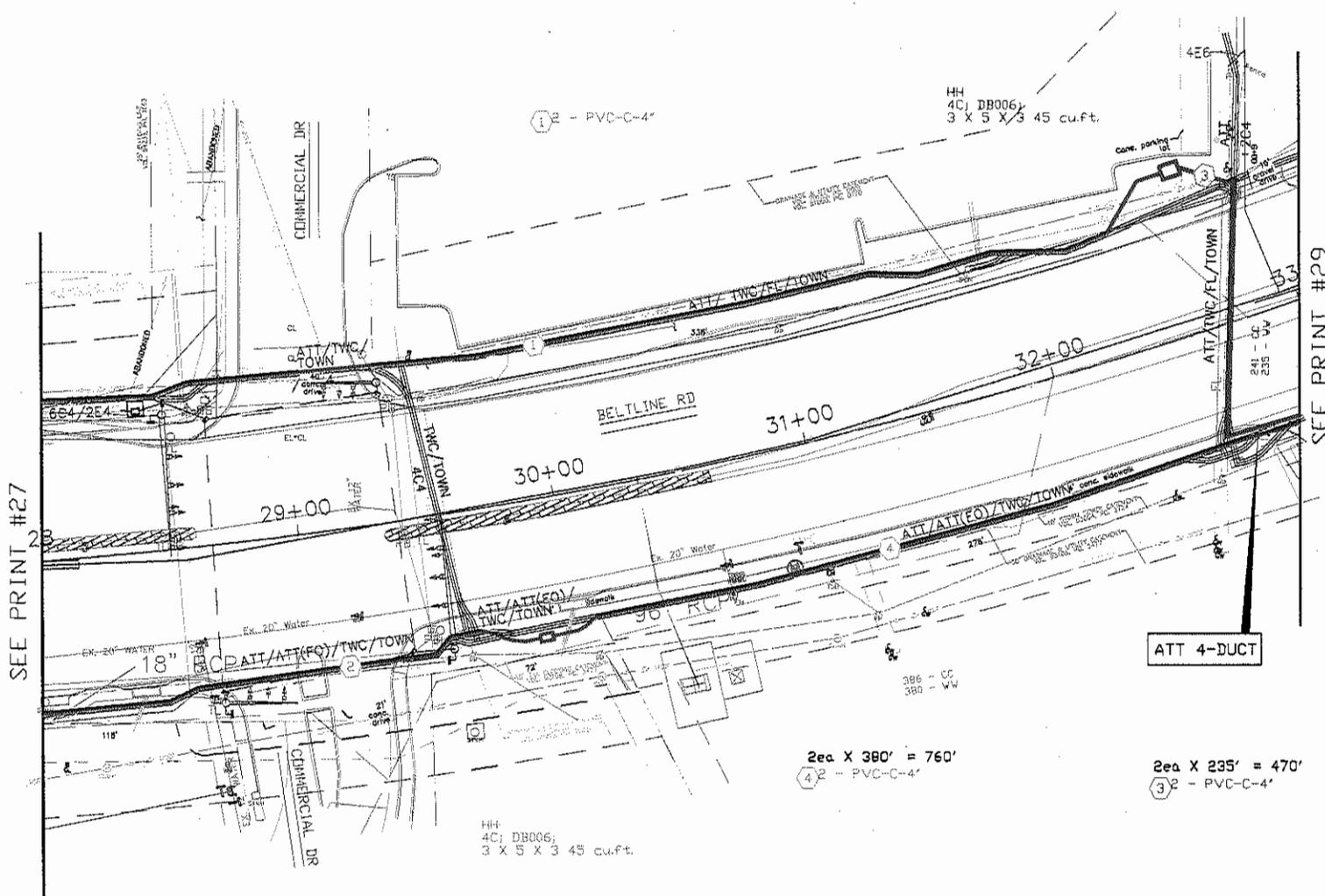
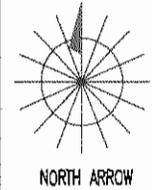
SEE PRINT #28

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

LOCATE ALL UTILITIES
BEFORE PLACING

TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL 1-800-344-8377
OR CALL 911

SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED N



SEE PRINT #29

SEE PRINT #27

OPERATING RANGE OF JOB STEPS
TASK _____ TO _____
MFR# _____

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL 1 BURIED 1

HIGHWAY PERMIT NO.

UTILITY CO. BEBE - ONCOR ELECTRIC DELIVERY C
REP NAME KEPP SPEARS
REP TEL NO. (972) 888-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 28
NPA/NNX: 972-241 PRT: 972241
EXCH. FARMERS BRANCH
TAX DIST. DB006
GEO LOC. TT8241
ENGR. GCX DRAWN BBS
TELEPHONE NO. (972) 470-5337
REC. REF. 697-645-45-2
MAP REF. 130
SCALE 1" = 40.0'
ISSUE DATE
PROJ TITLE FB BELTLINE RD RELOCATION
REV. NUMBER
DATE REV.
ENG CELL 214-215-8065

HH
4C; DB006;
3 X 5 X 3 45 cu.ft.

1 - PVC-C-4"

HH
4C; DB006;
3 X 5 X 3 45 cu.ft.

2ea X 380' = 760'
4 - PVC-C-4"

2ea X 235' = 470'
3 - PVC-C-4"

ATT 4-DUCT

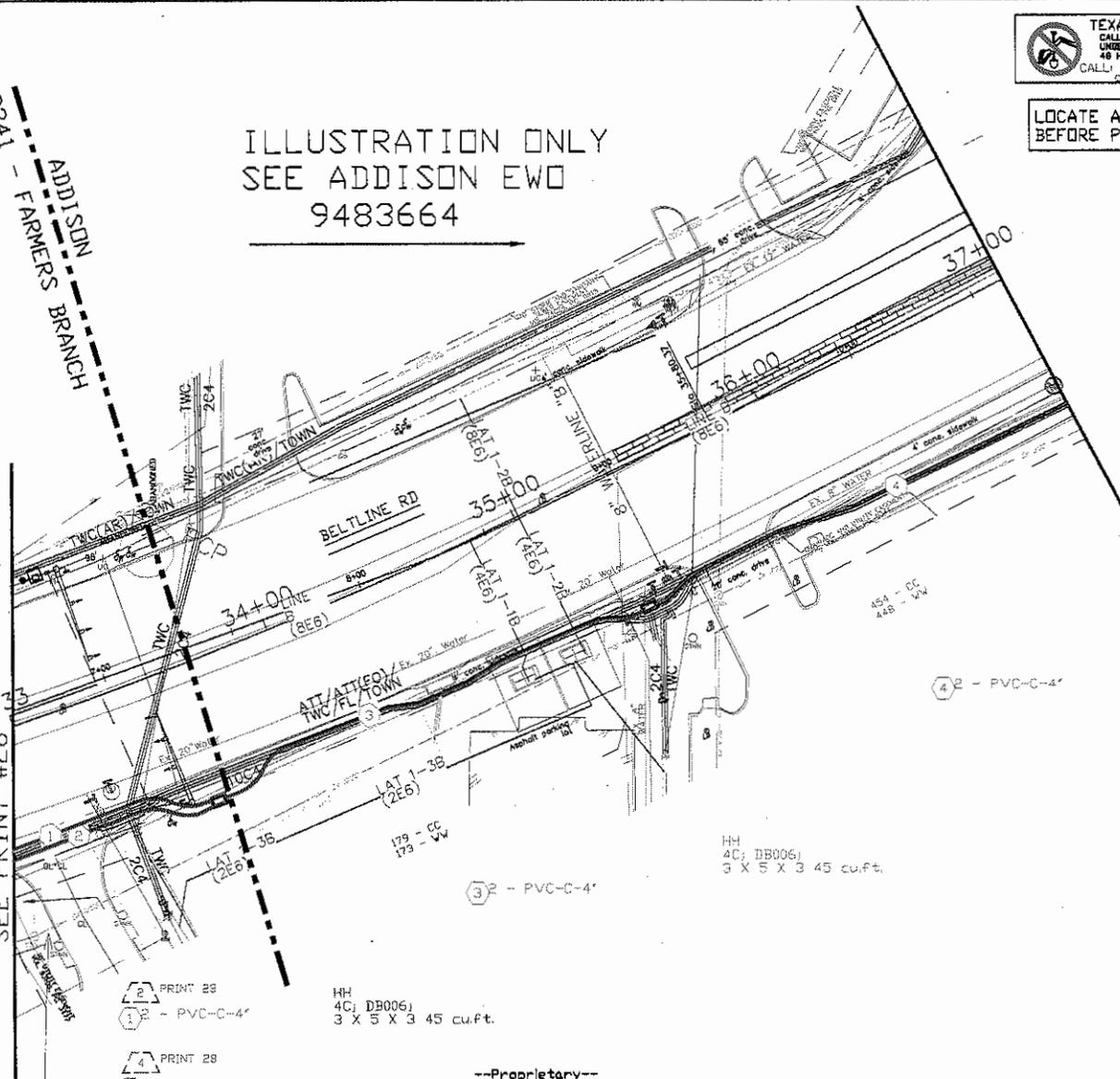
2 - PVC-C-4"

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

972241 - ADDISON
FARMERS BRANCH

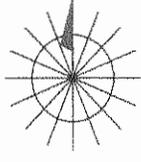
ILLUSTRATION ONLY
SEE ADDISON EWO
9483664

SEE PRINT #28



TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL 1-800-244-9377
OR CALL 811

LOCATE ALL UTILITIES
BEFORE PLACING

SPECIAL CIRCUITS	N	 NORTH ARROW
6203 FORWARDED	N	
PERMIT REQUIRED	N	
OPERATING RANGE OF JOB STEPS	TASK _____ TO _____	

OPERATING RANGE OF JOB STEPS	TASK _____ TO _____
MFR	4C

TRANSMISSION ZONE	CZ 9 TAPER CODE 117206
-------------------	------------------------

CAUTION HIGH VOLTAGE	KV 7.50 AERIAL Y BURIED Y
----------------------	---------------------------

HIGHWAY PERMIT NO.	
--------------------	--

Utility CO	DEIC - DIXIE ELECTRIC DELIVERY CO
REP NAME	KEP SPEARS
REP TEL NO.	(972) 889-1347
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	9478969
------------	---------

TOT. PRINTS	35	PRINT NO. 29
NPA/NNX:	972-241	PRT:972241
EXCH.	FARMERS BRANCH	
TAX DIST.	DB006	
GEO LOC.	TT8241	
ENGR.	CCX	DRAWN BBS
TELEPHONE NO.	(972) 470-5337	
REC. REF.	697-645-45-2	
MAP REF.	130	
SCALE	1" = 40.0'	
ISSUE DATE		
PROJ. TITLE	FB BELPLINE RD RELOCATION	
REV. NUMBER		
DATE REV.		
ENG CELL	214-215-8065	

- 2 PRINT 28
- 1 PVC-C-4'
- 4 PRINT 28
- 2 PVC-C-4'

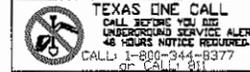
HH
4C; DB006J
3 X 5 X 3 45 cu.ft.

HH
4C; DB006J
3 X 5 X 3 45 cu.ft.

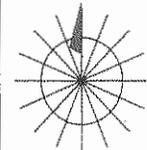
--Proprietary--
Not for use or disclosure outside the AT&T companies except under written agreement.

ILLUSTRATION ONLY
SEE ADDISON EWO
9483664

LOCATE ALL UTILITIES
BEFORE PLACING



SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED N



NORTH ARROW

OPERATING RANGE OF JOB STEPS
TASK _____ TO _____
MFCR #C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO (DEC) - ONCOR ELECTRIC DELIVERY C
REP NAME KEOP SPEARS
REP TEL NO. (972) 809-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 30
NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. D8006

GEO LOC. T78241

ENGR. CCX DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 597-645-45-2

MAP REF. 130

SCALE 1" = 40.0'

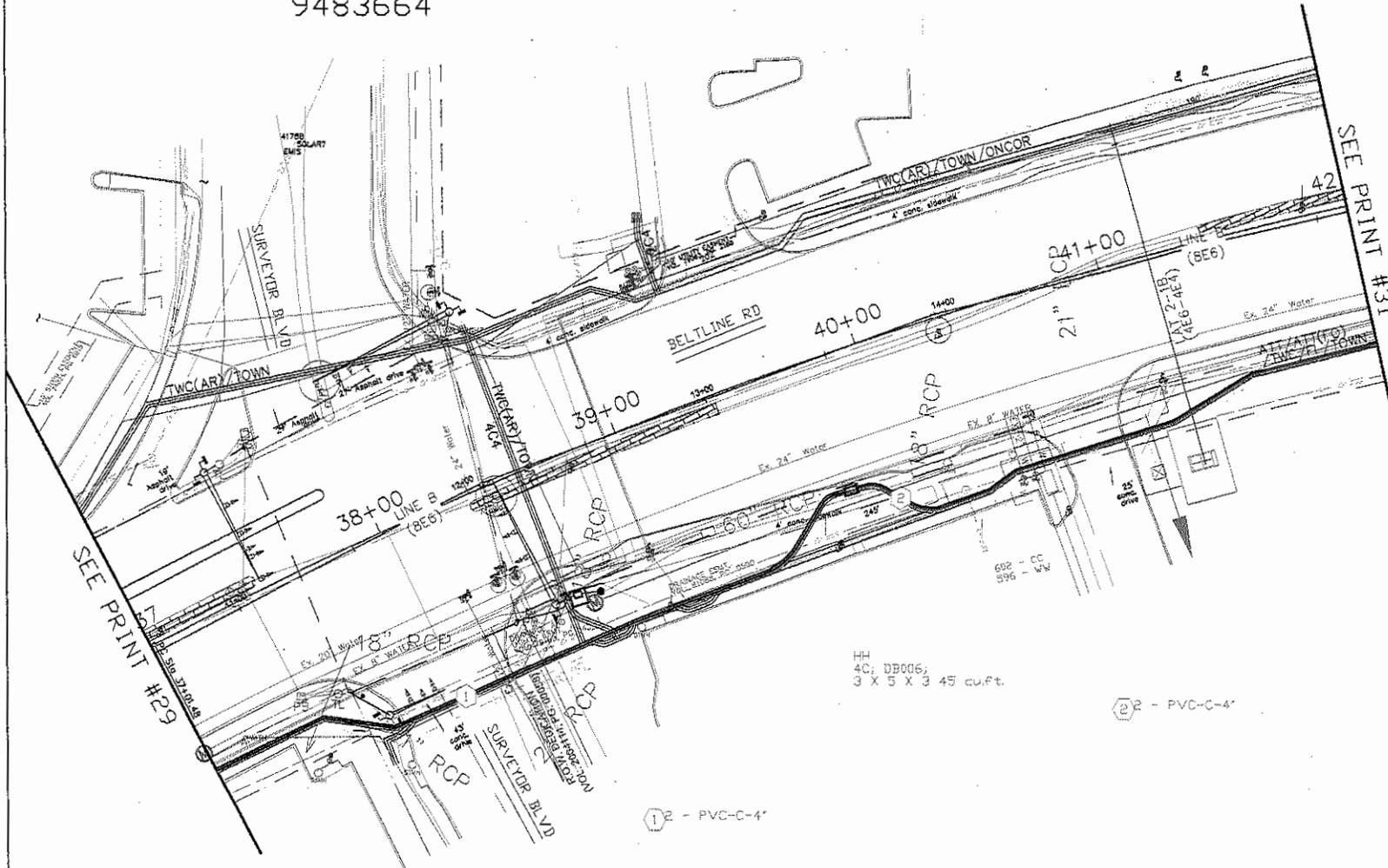
ISSUE DATE

PROJ. TITLE FB BELTLINE RD RELOCATION

REV. NUMBER

DATE REV.

ENG CELL 214-215-8065



HI
4C; DB006;
3 X 5 X 3 45 cu.ft.

①2 - PVC-C-4"

②2 - PVC-C-4"

SEE PRINT #29

SEE PRINT #31

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

LOCATE ALL UTILITIES
BEFORE PLACING

TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL 1-800-344-8377
OR CALL 811

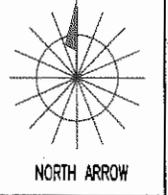
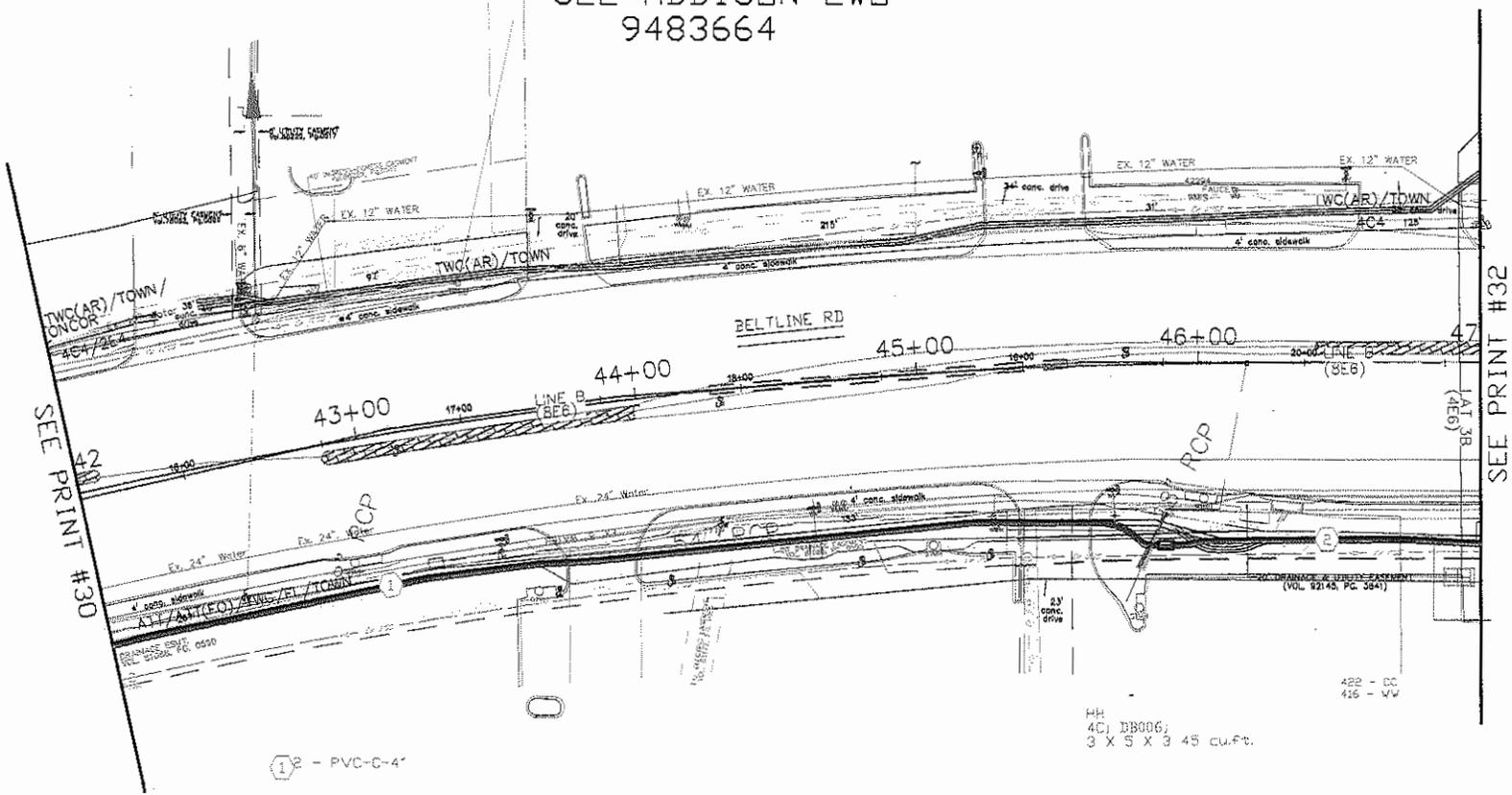


ILLUSTRATION ONLY
SEE ADDISON EWD
9483664



SEE PRINT #32

SEE PRINT #30

SPECIAL CIRCUITS	N
6203 FORWARDED	N
PERMIT REQUIRED	N
OPERATING RANGE OF JOB STEPS	
TASK	TO
MFR#	
TRANSMISSION ZONE	
RZ 15	CZ 9 TAPER CODE 117206
CAUTION HIGH VOLTAGE	
KV 7.50	AERIAL BURIED
HIGHWAY PERMIT NO.	
UTILITY CO. BECC - ENGR ELECTRIC DELIVERY C	
REP NAME KEMP SPEARS	
REP TEL NO. (972) 888-1347	
POLE CONTACTS (+)	(-)
UTILITY CO.	
REP NAME	
REP TEL NO.	
POLE CONTACTS (+)	(-)
UTILITY CO.	
REP NAME	
REP TEL NO.	
POLE CONTACTS (+)	(-)
PROJECT NO 9478969	
TOT. PRINTS 35	PRINT NO. 31
NPA/NNX: 972-241	PRT: 972241
EXCH. FARMERS BRANCH	
TAX DIST. DB006	
GEO LOC. TT8241	
ENGR. CCK	DRAWN BBS
TELEPHONE NO. (972) 470-5337	
REC. REF. 697-645-45-2	
MAP REF. 13D	
SCALE 1" = 40.0'	
ISSUE DATE	
PROJ TITLE FB BELTLINE RD RELOCATION	
REV. NUMBER	
DATE REV.	
ENG CELL 214-215-8065	

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

LOCATE ALL UTILITIES
BEFORE PLACING

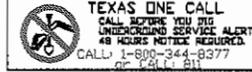


ILLUSTRATION ONLY
SEE ADDISON EWD
9483664

SPECIAL CIRCUITS N
6203 FORWARDED N
PERMIT REQUIRED N



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRC 4C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

UTILITY CO. BEEC - ONCOR ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 888-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 32
NPA/MNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. DB006

GEO LOC. T8241

ENGR. CCX

DRAWN BDS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2

MAP REF. 130

SCALE 1" = 40.0'

ISSUE DATE

PROJ TITLE FB BELTLINE RD RELOCATION

REV. NUMBER

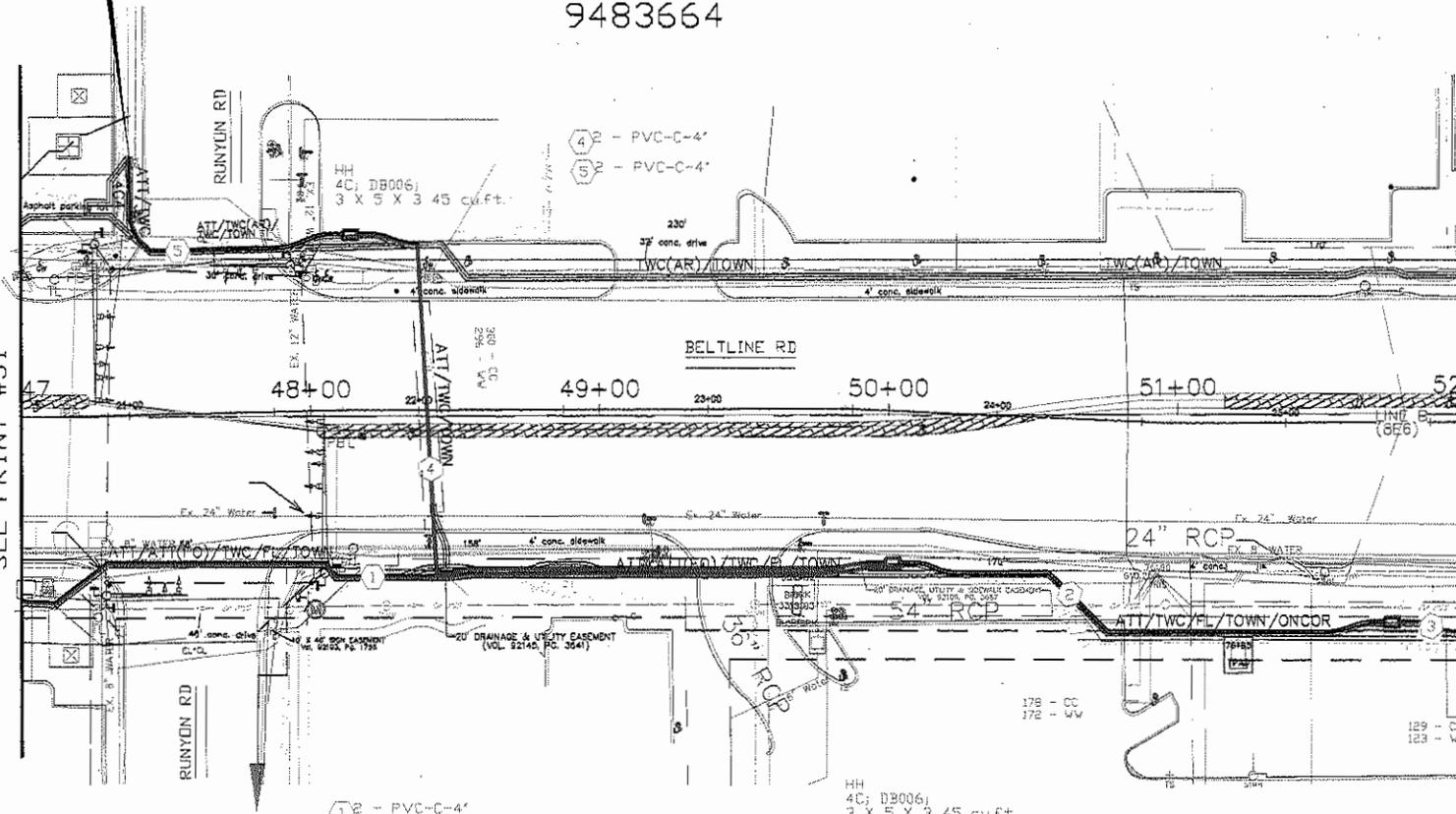
DATE REV.

ENG CELL 214-215-8065

RISE AT POLE

SEE PRINT #31

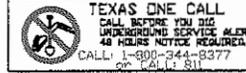
SEE PRINT #33



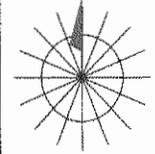
--Proprietary--
Not for use or disclosure outside the AT&T companies except under written agreement.

ILLUSTRATION ONLY
SEE ADDISON EWD
9483664

LOCATE ALL UTILITIES
BEFORE PLACING



SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED N



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFR# 4C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO BEBC - ONCOR ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 888-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 33

NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. 08006

GEO LOC. TT8241

ENGR. CCX DRAWN BDS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2

MAP REF. 130

SCALE 1" = 40.0'

ISSUE DATE

PROJ TITLE FB BELTLINE RD RELOCATION

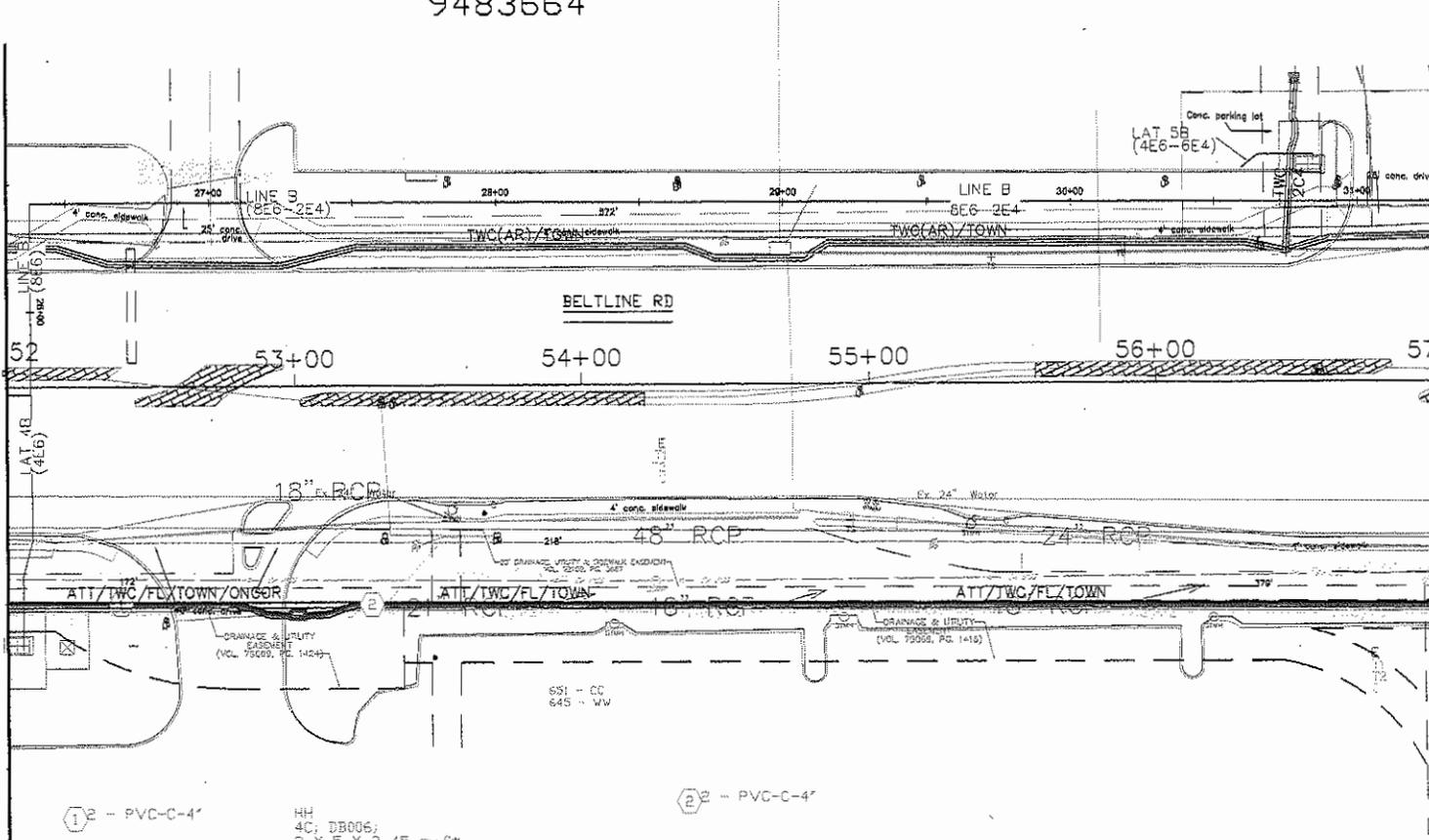
REV. NUMBER

DATE REV.

ENG CELL 214-215-8065

SEE PRINT #32

SEE PRINT #34



① - PVC-C-4' HH
4C; DB005;
3 X 5 X 3 45 cu.ft.

② - PVC-C-4'

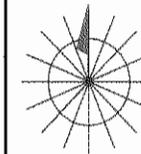
--Proprietary--
Not for use or disclosure outside the AT&T companies except under written agreement.

LOCATE ALL UTILITIES
BEFORE PLACING



TEXAS ONE CALL
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
48 HOURS NOTICE REQUIRED
CALL: 1-800-344-9377
OR (214) 811-8111

HH
4C; DB006;
3 X 5 X 3 45 cu.ft.



NORTH ARROW

SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED N

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRG 4C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 117206

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO BEING - UNIOR ELECTRIC DELIVERY C
REP NAME KEMP SPEARS
REP TEL NO. (972) 889-1347
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 9478969

TOT.PRINTS 35 PRINT NO. 34
NPA/NNX: 972-241 PRT:972241

EXCH. FARMERS BRANCH

TAX DIST. DB006

GEO LOC. TT8241

ENGR. CCX DRAWN BBS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2

MAP REF. 130

SCALE 1" = 40.0'

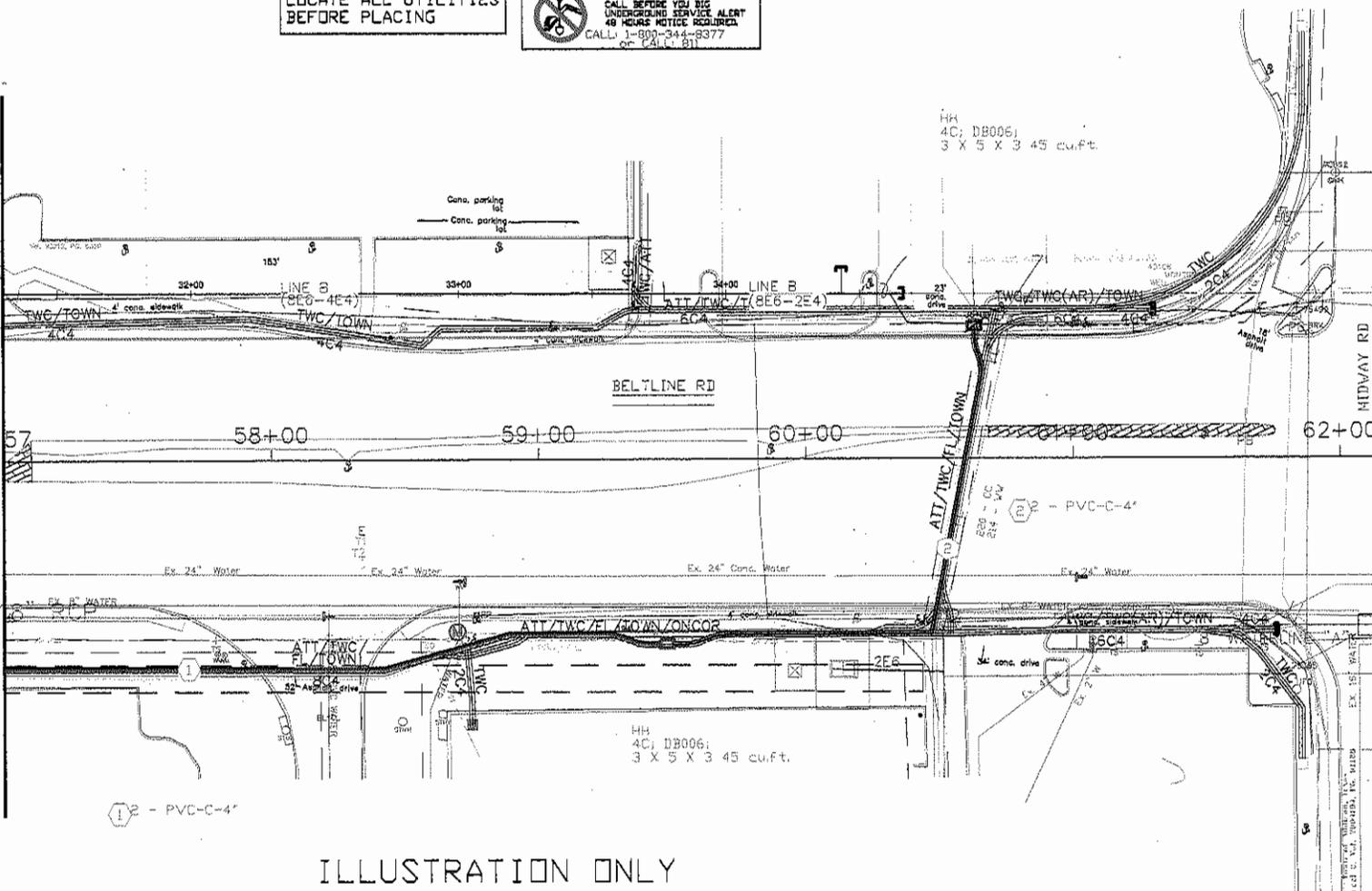
ISSUE DATE

PROJ TITLE FB BELTLINE RD RELOCATION
REV. NUMBER

DATE REV.

ENGR CELL 214-215-8065

SEE PRINT #33



① - PVC-C-4"

HH
4C; DB006;
3 X 5 X 3 45 cu.ft.

ILLUSTRATION ONLY
SEE ADDISON EWO
9483664

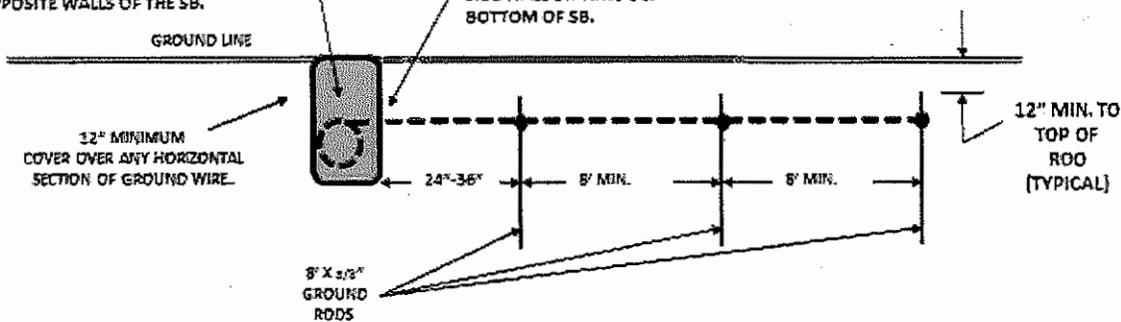
--Proprietary--
Not for use or disclosure outside the AT&T companies except under written agreement.

BURIED GROUND BED DETAIL

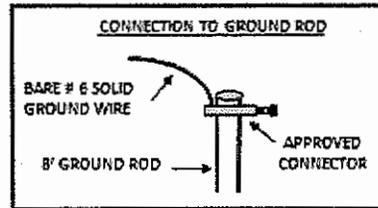
FIRST GROUND ROD TO BE PLACED NO CLOSER THAN 24" AND NO FURTHER THAN 36" TO/FROM ANY SURFACE OF THE POLE. SECOND AND THIRD GROUND RODS ARE TO BE SEPARATED BY AT LEAST 8 FEET FROM EACH OTHER AND FROM THE FIRST GROUND ROD. THE TOP OF EACH GROUND ROD IS TO BE AT LEAST 12" BELOW FINAL GRADE AT THE ROD LOCATION. USE 5/8" DIAMETER, COPPER CLAD, STEEL GROUND ROD - 96" LONG.

LOOP #6 AWG BARE SOLID COPPER GROUND WIRE THRU THE CLAMPS AT EACH GROUND ROD - DO NOT CUT WIRE. ROUTE WIRE FROM CLOSEST ROD INSIDE SB, WRAPPING THE SB ONE TIME, MAKING AN APPEARANCE ON 2 OPPOSITE WALLS OF THE SB.

BARE # 6 SOLID GROUND WIRE TO ENTER THROUGH SIDE WALL OR THROUGH BOTTOM OF SB.



TWO DAYS BEFORE YOU DIG
CALL U.S.A. TOLL FREE
811



SPECIAL
CIRCUITS N
6203
FORWARDED N
PERMIT
REQUIRED N



NORTH ARROW

OPERATING RANGE OF JOB STEPS

TASK _____ TO _____

MFRG 45C

TRANSMISSION ZONE
RZ 15 CZ 9 TAPER CODE 112216

CAUTION HIGH VOLTAGE
KV 7.50 AERIAL Y BURIED Y

HIGHWAY PERMIT NO.

Utility CO BDC - ONCOR ELECTRIC DELIVERY C
REP NAME ROP SPEARS
REP TEL NO. (972) 889-1347
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 9478969

TOT. PRINTS 35 PRINT NO. 35
NPA/NNX: 972-241 PRT: 972241

EXCH. FARMERS BRANCH

TAX DIST. DB006

GEO LOC. T78241

ENGR. CCX DRAWN BDS

TELEPHONE NO. (972) 470-5337

REC. REF. 697-645-45-2

MAP REF. 130

SCALE NONE

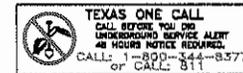
ISSUE DATE

PROJ TITLE FB BELTLINE RD RELOCATION

REV. NUMBER

DATE REV. 11/14/2014

ENG CELL: 214-215-8065



--Proprietary--

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

ATTACHMENT B
Utility Accounting Method

Actual Cost Method of Accounting

The utility accumulates costs under an accounting procedure developed by the utility owner and approved by the Town; and the utility proposes to request reimbursement for actual direct and related indirect costs.

Lump Sum Method of Accounting

The utility proposes to request reimbursement based on an agreed lump sum amount supported by a detailed cost analysis.

ATTACHMENT C

Utility Schedule of Work and Estimated Date of Completion

Anticipated Construction Start 30 days after completion of civil work	Tentative Date TBD
Construction Duration	Total Days 120
Estimated Completion Date	Tentative Date TBD

NOTE: The Town of Addison will bid and construct the duct bank required for the Utility's relocation efforts. The Utility owner will be responsible for moving wiring and services to the new underground facilities and appurtenances.

ATTACHMENT D
Betterment Calculation and Estimates

- Betterment does not exist in this agreement

- Forced Betterment exists in this agreement
 - At the request of the State
 - Due to technological advances
 - Due to Utility standards—see attached documentation

- Betterment exists—see attached calculation

Attachment E: 23 CFR 645, Subpart A

For purposes of this Utility Agreement, the references to the Federal Highway Department (FHWA), State transportation department (STD), and transportation department (TD) used interchangeably shall refer to the Town of Addison.

Federal Highway Administration, DOT

§645.105

- 645.103 Applicability.
- 645.105 Definitions.
- 645.107 Eligibility.
- 645.109 Preliminary engineering.
- 645.111 Right-of-way.
- 645.113 Agreements and authorizations.
- 645.115 Construction.
- 645.117 Cost development and reimbursement.
- 645.119 Alternate procedure.

Subpart B—Accommodation of Utilities

- 645.201 Purpose.
- 645.203 Applicability.
- 645.205 Policy.
- 645.207 Definitions.
- 645.209 General requirements.
- 645.211 State transportation department accommodation policies.
- 645.213 Use and occupancy agreements (permits).
- 645.215 Approvals.

AUTHORITY: 23 U.S.C. 101, 109, 111, 116, 123, and 315; 23 CFR 1.23 and 1.27; 49 CFR 1.48(b); and E.O. 11990, 42 26961 (May 24, 1977).

EDITORIAL NOTE: Nomenclature changes to part 645 appear at 65 FR 70311, Nov. 22, 2000.

Subpart A—Utility Relocations, Adjustments, and Reimbursement

SOURCE: 50 FR 20345, May 15, 1985, unless otherwise noted.

§ 645.101 Purpose.

To prescribe the policies, procedures, and reimbursement provisions for the adjustment and relocation of utility facilities on Federal-aid and direct Federal projects.

§ 645.103 Applicability.

(a) The provisions of this regulation apply to reimbursement claimed by a State transportation department (STD) for costs incurred under an approved and properly executed transportation department (TD)/utility agreement and for payment of costs incurred under all Federal Highway Administration (FHWA)/utility agreements.

(b) Procedures on the accommodation of utilities are set forth in 23 CFR part 645, subpart B, Accommodation of Utilities.

(c) When the lines or facilities to be relocated or adjusted due to highway construction are privately owned, located on the owner's land, devoted exclusively to private use and not di-

rectly or indirectly serving the public, the provisions of the FHWA's right-of-way procedures in 23 CFR 710.203, apply. When applicable, under the foregoing conditions, the provisions of this regulation may be used as a guide to establish a cost-to-cure.

(d) The FHWA's reimbursement to the STD will be governed by State law (or State regulation) or the provisions of this regulation, whichever is more restrictive. When State law or regulation differs from this regulation, a determination shall be made by the STD subject to the concurrence of the FHWA as to which standards will govern, and the record documented accordingly, for each relocation encountered.

(e) For direct Federal projects, all references herein to the STD or TD are inapplicable, and it is intended that the FHWA be considered in the relative position of the STD or TD.

[50 FR 20345, May 15, 1985, as amended at 64 FR 71289, Dec. 21, 1999]

§ 645.105 Definitions.

For the purposes of this regulation, the following definitions shall apply:

Authorization—for Federal-aid projects authorization to the STD by the FHWA, or for direct Federal projects authorization to the utility by the FHWA, to proceed with any phase of a project. The date of authorization establishes the date of eligibility for Federal funds to participate in the costs incurred on that phase of work.

Betterment—any upgrading of the facility being relocated that is not attributable to the highway construction and is made solely for the benefit of and at the election of the utility.

Cost of relocation—the entire amount paid by or on behalf of the utility properly attributable to the relocation after deducting from that amount any increase in value of the new facility, and any salvage derived from the old facility.

Cost of Removal—the amount expended to remove utility property including the cost of demolishing, dismantling, removing, transporting, or otherwise disposing of utility property and of cleaning up to leave the site in a neat and presentable condition.

Cost of salvage—the amount expended to restore salvaged utility property to usable condition after its removal.

Direct Federal projects—highway projects such as projects under the Federal Lands Highways Program which are under the direct administration of the FHWA.

Indirect or overhead costs—those costs which are not readily identifiable with one specific task, job, or work order. Such costs may include indirect labor, social security taxes, insurance, stores expense, and general office expenses. Costs of this nature generally are distributed or allocated to the applicable job or work orders, other accounts and other functions to which they relate. Distribution and allocation is made on a uniform basis which is reasonable, equitable, and in accordance with generally accepted cost accounting practices.

Relocation—the adjustment of utility facilities required by the highway project. It includes removing and re-installing the facility, including necessary temporary facilities, acquiring necessary right-of-way on the new location, moving, rearranging or changing the type of existing facilities and taking any necessary safety and protective measures. It shall also mean constructing a replacement facility that is both functionally equivalent to the existing facility and necessary for continuous operation of the utility service, the project economy, or sequence of highway construction.

Salvage value—the amount received from the sale of utility property that has been removed or the amount at which the recovered material is charged to the utility's accounts, if retained for reuse.

State transportation department—the transportation department of one of the 50 States, the District of Columbia, or Puerto Rico.

Transportation department(TD)—that department, commission, board, or official of any State or political subdivision thereof, charged by its law with the responsibility for highway administration.

Use and occupancy agreement—the document (written agreement or permit) by which the TD approves the use

and occupancy of highway right-of-way by utility facilities or private lines.

Utility—a privately, publicly, or cooperatively owned line, facility or system for producing, transmitting, or distributing communications, cable television, power, electricity, light, heat, gas, oil, crude products, water, steam, waste, storm water not connected with highway drainage, or any other similar commodity, including any fire or police signal system or street lighting system, which directly or indirectly serves the public. The term utility shall also mean the utility company inclusive of any wholly owned or controlled subsidiary.

Work order system—a procedure for accumulating and recording into separate accounts of a utility all costs to the utility in connection with any change in its system or plant.

[50 FR 20345, May 15, 1985, as amended at 65 FR 70311, Nov. 22, 2000]

§ 645.107 Eligibility.

(a) When requested by the STD, Federal funds may participate, subject to the provisions of §645.103(d) of this part and at the pro rata share applicable, in an amount actually paid by an TD for the costs of utility relocations. Federal funds may participate in safety corrective measures made under the provisions of §645.107(k) of this part. Federal funds may also participate for relocations necessitated by the actual construction of highway project made under one or more of the following conditions when:

(1) The STD certifies that the utility has the right of occupancy in its existing location because it holds the fee, an easement, or other real property interest, the damaging or taking of which is compensable in eminent domain,

(2) The utility occupies privately or publicly owned land, including public road or street right-of-way, and the STD certifies that the payment by the TD is made pursuant to a law authorizing such payment in conformance with the provisions of 23 U.S.C. 123, and/or

(3) The utility occupies publicly owned land, including public road and street right-of-way, and is owned by a public agency or political subdivision of the State, and is not required by law

or agreement to move at its own expense, and the STD certifies that the TD has the legal authority or obligation to make such payments.

(b) On projects which the STD has the authority to participate in project costs, Federal funds may not participate in payments made by a political subdivision for relocation of utility facilities, other than those proposed under the provisions of §645.107(k) of this part, when State law prohibits the STD from making payment for relocation of utility facilities.

(c) On projects which the STD does not have the authority to participate in project costs, Federal funds may participate in payments made by a political subdivision for relocation of utility facilities necessitated by the actual construction of a highway project when the STD certifies that such payment is based upon the provisions of §645.107(a) of this part and does not violate the terms of a use and occupancy agreement, or legal contract, between the utility and the TD or for utility safety corrective measures under the provisions of §645.107(k) of this part.

(d) Federal funds are not eligible to participate in any costs for which the utility contributes or repays the TD, except for utilities owned by the political subdivision on projects which qualify under the provisions of §645.107(c) of this part in which case the costs of the utility are considered to be costs of the TD.

(e) The FHWA may deny Federal fund participation in any payments made by a TD for the relocation of utility facilities when such payments do not constitute a suitable basis for Federal fund participation under the provisions of title 23 U.S.C.

(f) The rights of any public agency or political subdivision of a State under contract, franchise, or other instrument or agreement with the utility, pertaining to the utility's use and occupancy of publicly owned land, including public road and street right-of-way, shall be considered the rights of the STD in the absence of State law to the contrary.

(g) In lieu of the individual certifications required by §645.107(a) and (c), the STD may file a statement with the

FHWA setting forth the conditions under which the STD will make payments for the relocation of utility facilities. The FHWA may approve Federal fund participation in utility relocations proposed by the STD under the conditions of the statement when the FHWA has made an affirmative finding that such statement and conditions form a suitable basis for Federal fund participation under the provisions of 23 U.S.C. 123.

(h) Federal funds may not participate in the cost of relocations of utility facilities made solely for the benefit or convenience of a utility, its contractor, or a highway contractor.

(i) When the advance installation of new utility facilities crossing or otherwise occupying the proposed right-of-way of a planned highway project is underway, or scheduled to be underway, prior to the time such right-of-way is purchased by or under control of the TD, arrangements should be made for such facilities to be installed in a manner that will meet the requirements of the planned highway project. Federal funds are eligible to participate in the additional cost incurred by the utility that are attributable to, and in accommodation of, the highway project provided such costs are incurred subsequent to authorization of the work by the FHWA. Subject to the other provisions of this regulation, Federal participation may be approved under the foregoing circumstances when it is demonstrated that the action taken is necessary to protect the public interest and the adjustment of the facility is necessary by reason of the actual construction of the highway project.

(j) Federal funds are eligible to participate in the costs of preliminary engineering and allied services for utilities, the acquisition of replacement right-of-way for utilities, and the physical construction work associated with utility relocations. Such costs must be incurred by or on behalf of a utility after the date the work is included in an approved program and after the FHWA has authorized the STD to proceed in accordance with 23 CFR part 630, subpart A, Federal-Aid Programs Approval and Project Authorization.

§645.109

(k) Federal funds may participate in projects solely for the purpose of implementing safety corrective measures to reduce the roadside hazards of utility facilities to the highway user. Safety corrective measures should be developed in accordance with the provisions of 23 CFR 645.209(k).

(Information collection requirements in paragraph (g) were approved by the Office of Management and Budget under control number 2125-0515)

[50 FR 20345, May 15, 1985, as amended at 53 FR 24932, July 1, 1988]

§645.109 Preliminary engineering.

(a) As mutually agreed to by the TD and utility, and subject to the provisions of paragraph (b) of this section, preliminary engineering activities associated with utility relocation work may be done by:

(1) The TD's or utility's engineering forces;

(2) An engineering consultant selected by the TD, after consultation with the utility, the contract to be administered by the TD; or,

(3) An engineering consultant selected by the utility, with the approval of the TD, the contract to be administered by the utility.

(b) When a utility is not adequately staffed to pursue the necessary preliminary engineering and related work for the utility relocation, Federal funds may participate in the amount paid to engineers, architects, and others for required engineering and allied services provided such amounts are not based on a percentage of the cost of relocation. When Federal participation is requested by the STD in the cost of such services, the utility and its consultant shall agree in writing as to the services to be provided and the fees and arrangements for the services. Federal funds may participate in the cost of such services performed under existing written continuing contracts when it is demonstrated that such work is performed regularly for the utility in its own work and that the costs are reasonable.

(c) The procedures in 23 CFR part 172, Administration of Engineering and Design Related Service Contracts, may be

23 CFR Ch. I (4-1-12 Edition)

used as a guide for reviewing proposed consultant contracts.

[50 FR 20345, May 15, 1985, as amended at 60 FR 34850, July 5, 1995; 65 FR 70311, Nov. 22, 2000]

§645.111 Right-of-way.

(a) Federal participation may be approved for the cost of replacement right-of-way provided:

(1) The utility has the right of occupancy in its existing location because it holds the fee, an easement, or another real property interest, the damaging or taking of which is compensable in eminent domain, or the acquisition is made in the interest of project economy or is necessary to meet the requirements of the highway project, and

(2) There will be no charge to the project for that portion of the utility's existing right-of-way being transferred to the TD for highway purposes.

(b) The utility shall determine and make a written valuation of the replacement right-of-way that it acquires in order to justify amounts paid for such right-of-way. This written valuation shall be accomplished prior to negotiation for acquisition.

(c) Acquisition of replacement right-of-way by the TD on behalf of a utility or acquisition of nonoperating real property from a utility shall be in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 U.S.C. 4601 *et seq.*) and applicable right-of-way procedures in 23 CFR 710.203.

(d) When the utility has the right-of-occupancy in its existing location because it holds the fee, an easement, or another real property interest, and it is not necessary by reason of the highway construction to adjust or replace the facilities located thereon, the taking of and damage to the utility's real property, including the disposal or removal of such facilities, may be considered a right-of-way transaction in accordance with provisions of the applicable right-of-way procedures in 23 CFR 710.203.

[50 FR 20345, May 15, 1985, as amended at 64 FR 71289, Dec. 21, 1999]

§645.113 Agreements and authorizations.

(a) On Federal-aid and direct Federal projects involving utility relocations,

the utility and the TD shall agree in writing on their separate responsibilities for financing and accomplishing the relocation work. When Federal participation is requested, the agreement shall incorporate this regulation by reference and designate the method to be used for performing the work (by contract or force account) and for developing relocation costs. The method proposed by the utility for developing relocation costs must be acceptable to both the TD and the FHWA. The preferred method for the development of relocation costs by a utility is on the basis of actual direct and related indirect costs accumulated in accordance with a work order accounting procedure prescribed by the applicable Federal or State regulatory body.

(b) When applicable, the written agreement shall specify the terms and amounts of any contribution or repayments made or to be made by the utility to the TD in connection with payments by the TD to the utility under the provisions of §645.107 of this regulation.

(c) The agreement shall be supported by plans, specifications when required, and itemized cost estimates of the work agreed upon, including appropriate credits to the project, and shall be sufficiently informative and complete to provide the TD and the FHWA with a clear description of the work required.

(d) When the relocation involves both work to be done at the TD's expense and work to be done at the expense of the utility, the written agreement shall state the share to be borne by each party.

(e) In the event there are changes in the scope of work, extra work or major changes in the planned work covered by the approved agreement, plans, and estimates, Federal participation shall be limited to costs covered by a modification of the agreement, a written change, or extra work order approved by the TD and the FHWA.

(f) When proposed utility relocation and adjustment work on a project for a specific utility company can be clearly defined and the cost can be accurately estimated, the FHWA may approve an agreement between the TD and the utility company for a lump-sum pay-

ment without later confirmation by audit of actual costs.

(g) Except as otherwise provided by §645.113(h), authorization by the FHWA to the STD to proceed with the physical relocation of a utility's facilities may be given after:

(1) The utility relocation work, or the right-of-way, or physical construction phase of the highway construction work is included in an approved State-wide transportation improvement program,

(2) The appropriate environmental evaluation and public hearing procedures required by 23 CFR part 771, Environmental Impact and Related Procedures, have been satisfied.

(3) The FHWA has reviewed and approved the plans, estimates, and proposed or executed agreements for the utility work and is furnished a schedule for accomplishing the work.

(h) The FHWA may authorize the physical relocation of utility facilities before the requirements of §645.113(g)(2) are satisfied when the relocation or adjustment of utility facilities meets the requirements of §645.107(i) of this regulation.

(i) Whenever the FHWA has authorized right-of-way acquisition under the hardship and protective buying provisions of 23 CFR 710.503, the FHWA may authorize the physical relocation of utility facilities located in whole or in part on such right-of-way.

(j) When all efforts by the TD and utility fail to bring about written agreement of their separate responsibilities under the provisions of this regulation, the STD shall submit its proposal and a full report of the circumstances to the FHWA. Conditional authorization for the relocation work to proceed may be given by the FHWA to the STD with the understanding that Federal funds will not be paid for work done by the utility until the STD proposal has been approved by the FHWA.

(k) The FHWA will consider for approval any special procedure under State law, or appropriate administrative or judicial order, or under blanket master agreements with the utilities, that will fully accomplish all of the foregoing objectives and accelerate the

§645.115

advancement of the construction and completion of projects.

[50 FR 20345, May 15, 1985, as amended at 60 FR 34850, July 5, 1995; 64 FR 71289, Dec. 21, 1999; 65 FR 70311, Nov. 22, 2000]

§645.115 Construction.

(a) Part 635, subpart B, of this title, Force Account Construction (justification required for force account work), states that it is cost-effective for certain utility adjustments to be performed by a utility with its own forces and equipment, provided the utility is qualified to perform the work in a satisfactory manner. This cost-effectiveness finding covers minor work on the utility's existing facilities routinely performed by the utility with its own forces. When the utility is not adequately staffed and equipped to perform such work with its own forces and equipment at a time convenient to and in coordination with the associated highway construction, such work may be done by:

(1) A contract awarded by the TD or utility to the lowest qualified bidder based on appropriate solicitation,

(2) Inclusion as part of the TD's highway construction contract let by the TD as agreed to by the utility,

(3) An existing continuing contract, provided the costs are reasonable, or

(4) A contract for low-cost incidental work, such as tree trimming and the like, awarded by the TD or utility without competitive bidding, provided the costs are reasonable.

(b) When it has been determined under part 635, subpart B, that the force account method is not the most cost-effective means for accomplishing the utility adjustment, such work is to be done under competitive bid contracts as described in §645.115(a)(1) and (2) or under an existing continuing contract provided it can be demonstrated this is the most cost-effective method.

(c) Costs for labor, materials, equipment, and other services furnished by the utility shall be billed by the utility directly to the TD. The special provisions of contracts let by the utility or the TD shall be explicit in this respect. The costs of force account work performed for the utility by the TD and of contract work performed for the utility under a contract let by the TD shall be

23 CFR Ch. I (4-1-12 Edition)

reported separately from the costs of other force account and contract items on the highway project.

§645.117 Cost development and reimbursement.

(a) *Developing and recording costs.* (1) All utility relocation costs shall be recorded by means of work orders in accordance with an approved work order system except when another method of developing and recording costs, such as lump-sum agreement, has been approved by the TD and the FHWA. Except for work done under contracts, the individual and total costs properly reported and recorded in the utility's accounts in accordance with the approved method for developing such costs, or the lump-sum agreement, shall constitute the maximum amount on which Federal participation may be based.

(2) Each utility shall keep its work order system or other approved accounting procedure in such a manner as to show the nature of each addition to or retirement from a facility, the total costs thereof, and the source or sources of cost. Separate work orders may be issued for additions and retirements. Retirements, however, may be included with the construction work order provided that all items relating to retirements shall be kept separately from those relating to construction.

(3) The STD may develop, or work in concert with utility companies to develop, other acceptable costing methods, such as unit costs, to estimate and reimburse utility relocation expenditures. Such other methods shall be founded in generally accepted industry practices and be reasonably supported by recent actual expenditures. Unit costs should be developed periodically and supported annually by a maintained data base of relocation expenses. Development of any alternate costing method should consider the factors listed in paragraphs (b) through (g) of this section. Streamlining of the cost development and reimbursement procedures is encouraged so long as adequate accountability for Federal expenditures is maintained. Concurrence by the FHWA is required for any costing method used other than actual cost.

(b) *Direct labor costs.* (1) Salaries and wages, at actual or average rates, and

related expenses paid by the utility to individuals for the time worked on the project are reimbursable when supported by adequate records. This includes labor associated with preliminary engineering, construction engineering, right-of-way, and force account construction.

(2) Salaries and expenses paid to individuals who are normally part of the overhead organization of the utility may be reimbursed for the time worked directly on the project when supported by adequate records and when the work performed by such individuals is essential to the project and could not have been accomplished as economically by employees outside the overhead organization.

(3) Amounts paid to engineers, architects and others for services directly related to projects may be reimbursed.

(c) *Labor surcharges.* (1) Labor surcharges include worker compensation insurance, public liability and property damage insurance, and such fringe benefits as the utility has established for the benefit of its employees. The cost of labor surcharges will be reimbursed at actual cost to the utility, or, at the option of the utility, average rates which are representative of actual costs may be used in lieu of actual costs if approved by the STD and the FHWA. These average rates should be adjusted at least once annually to take into account known anticipated changes and correction for any over or under applied costs for the preceding period.

(2) When the utility is a self-insurer, there may be reimbursement at experience rates properly developed from actual costs. The rates cannot exceed the rates of a regular insurance company for the class of employment covered.

(d) *Overhead and indirect construction costs.* (1) Overhead and indirect construction costs not charged directly to work order or construction accounts may be allocated to the relocation provided the allocation is made on an equitable basis. All costs included in the allocation shall be eligible for Federal reimbursement, reasonable, actually incurred by the utility, and consistent with the provisions of 48 CFR part 31.

(2) Costs not eligible for Federal reimbursement include, but are not lim-

ited to, the costs associated with advertising, sales promotion, interest on borrowings, the issuance of stock, bad debts, uncollectible accounts receivable, contributions, donations, entertainment, fines, penalties, lobbying, and research programs.

(3) The records supporting the entries for overhead and indirect construction costs shall show the total amount, rate, and allocation basis for each additive, and are subject to audit by representatives of the State and Federal Government.

(e) *Material and supply costs.* (1) Materials and supplies, if available, are to be furnished from company stock except that they may be obtained from other sources near the project site when available at a lower cost. When not available from company stock, they may be purchased either under competitive bids or existing continuing contracts under which the lowest available prices are developed. Minor quantities of materials and supplies and proprietary products routinely used in the utility's operation and essential for the maintenance of system compatibility may be excluded from these requirements. The utility shall not be required to change its existing standards for materials used in permanent changes to its facilities. Costs shall be determined as follows:

(i) Materials and supplies furnished from company stock shall be billed at the current stock prices for such new or used materials at time of issue.

(ii) Materials and supplies not furnished from company stock shall be billed at actual costs to the utility delivered to the project site.

(iii) A reasonable cost for plant inspection and testing may be included in the costs of materials and supplies when such expense has been incurred. The computation of actual costs of materials and supplies shall include the deduction of all offered discounts, rebates, and allowances.

(iv) The cost of rehabilitating rather than replacing existing utility facilities to meet the requirements of a project is reimbursable, provided this cost does not exceed replacement costs.

(2) Materials recovered from temporary use and accepted for reuse by the utility shall be credited to the

project at prices charged to the job, less a consideration for loss in service life at 10 percent. Materials recovered from the permanent facility of the utility that are accepted by the utility for return to stock shall be credited to the project at the current stock prices of such used materials. Materials recovered and not accepted for reuse by the utility, if determined to have a net sale value, shall be sold to the highest bidder by the TD or utility following an opportunity for TD inspection and appropriate solicitation for bids. If the utility practices a system of periodic disposal by sale, credit to the project shall be at the going prices supported by records of the utility.

(3) Federal participation may be approved for the total cost of removal when either such removal is required by the highway construction or the existing facilities cannot be abandoned in place for aesthetic or safety reasons. When the utility facilities can be abandoned in place but the utility or highway constructor elects to remove and recover the materials, Federal funds shall not participate in removal costs which exceed the value of the materials recovered.

(4) The actual and direct costs of handling and loading materials and supplies at company stores or material yards, and of unloading and handling recovered materials accepted by the utility at its stores or material yards are reimbursable. In lieu of actual costs, average rates which are representative of actual costs may be used if approved by the STD and the FHWA. These average rates should be adjusted at least once annually to take into account known anticipated changes and correction for any over or under applied costs for the preceding period. At the option of the utility, 5 percent of the amounts billed for the materials and supplies issued from company stores and material yards or the value of recovered materials will be reimbursed in lieu of actual or average costs for handling.

(f) *Equipment costs.* The average or actual costs of operation, minor maintenance, and depreciation of utility-owned equipment may be reimbursed. Reimbursement for utility-owned vehicles may be made at average or actual

costs. When utility-owned equipment is not available, reimbursement will be limited to the amount of rental paid (1) to the lowest qualified bidder, (2) under existing continuing contracts at reasonable costs, or (3) as an exception by negotiation when paragraph (f) (1) and (2) of this section are impractical due to project location or schedule.

(g) *Transportation costs.* (1) The utility's cost, consistent with its overall policy, of necessary employee transportation and subsistence directly attributable to the project is reimbursable.

(2) Reasonable cost for the movement of materials, supplies, and equipment to the project and necessary return to storage including the associated cost of loading and unloading equipment is reimbursable.

(h) *Credits.* (1) Credit to the highway project will be required for the cost of any betterments to the facility being replaced or adjusted, and for the salvage value of the materials removed.

(2) Credit to the highway project will be required for the accrued depreciation of a utility facility being replaced, such as a building, pumping station, filtration plant, power plant, substation, or any other similar operational unit. Such accrued depreciation is that amount based on the ratio between the period of actual length of service and total life expectancy applied to the original cost. Credit for accrued depreciation shall not be required for a segment of the utility's service, distribution, or transmission lines.

(3) No betterment credit is required for additions or improvements which are:

- (i) Required by the highway project,
- (ii) Replacement devices or materials that are of equivalent standards although not identical,
- (iii) Replacement of devices or materials no longer regularly manufactured with next highest grade or size,
- (iv) Required by law under governmental and appropriate regulatory commission code, or
- (v) Required by current design practices regularly followed by the company in its own work, and there is a direct benefit to the highway project.

(4) When the facilities, including equipment and operating facilities, described in §645.117(h)(2) are not being replaced, but are being rehabilitated and/or moved, as necessitated by the highway project, no credit for accrued depreciation is needed.

(5) In no event will the total of all credits required under the provisions of this regulation exceed the total costs of adjustment exclusive of the cost of additions or improvements necessitated by the highway construction.

(i) *Billings.* (1) After the executed TD/utility agreement has been approved by the FHWA, the utility may be reimbursed through the STD by progress billings for costs incurred. Cost for materials stockpiled at the project site or specifically purchased and delivered to the utility for use on the project may also be reimbursed on progress billings following approval of the executed TD/utility agreement.

(2) The utility shall provide one final and complete billing of all costs incurred, or of the agreed-to lump-sum, within one year following completion of the utility relocation work, otherwise previous payments to the utility may be considered final, except as agreed to between the STD and the utility. Billings received from utilities more than one year following completion of the utility relocation work may be paid if the STD so desires, and Federal-aid highway funds may participate in these payments.

(3) All utility cost records and accounts relating to the project are subject to audit by representatives of the State and Federal Government for a period of 3 years from the date final payment has been received by the utility.

(Information collection requirements in paragraph (i) were approved by the Office of Management and Budget under control number 2125-0159)

[50 FR 20345, May 15, 1985, as amended at 60 FR 34850, July 5, 1995; 65 FR 70311, Nov. 22, 2000]

§645.119 Alternate procedure.

(a) This alternate procedure is provided to simplify the processing of utility relocations or adjustments under the provisions of this regulation. Under this procedure, except as otherwise

provided in paragraph (b) of this section, the STD is to act in the relative position of the FHWA for reviewing and approving the arrangements, fees, estimates, plans, agreements, and other related matters required by this regulation as prerequisites for authorizing the utility to proceed with and complete the work.

(b) The scope of the STD's approval authority under the alternate procedure includes all actions necessary to advance and complete all types of utility work under the provisions of this regulation except in the following instances:

(1) Utility relocations and adjustments involving major transfer, production, and storage facilities such as generating plants, power feed stations, pumping stations and reservoirs.

(2) Utility relocations falling within the scope of §645.113 (h), (i), and (j), and §645.107(i) of this regulation.

(c) To adopt the alternate procedure, the STD must file a formal application for approval by the FHWA. The application must include the following:

(1) The STD's written policies and procedures for administering and processing Federal-aid utility adjustments. Those policies and procedures must make adequate provisions with respect to the following:

(i) Compliance with the requirements of this regulation, except as otherwise provided by §645.119(b), and the provisions of 23 CFR part 645, subpart B, Accommodation of Utilities.

(ii) Advance utility liaison, planning, and coordination measures for providing adequate lead time and early scheduling of utility relocation to minimize interference with the planned highway construction.

(iii) Appropriate administrative, legal, and engineering review and coordination procedures as needed to establish the legal basis of the TD's payment; the extent of eligibility of the work under State and Federal laws and regulations; the more restrictive payment standards under §645.103(d) of this regulation; the necessity of the proposed utility work and its compatibility with proposed highway improvements; and the uniform treatment of

§645.201

all utility matters and actions, consistent with sound management practices.

(iv) Documentation of actions taken in compliance with STD policies and the provisions of this regulation, shall be retained by the STD.

(2) A statement signed by the chief administrative officer of the STD certifying that:

(i) Federal-aid utility relocations will be processed in accordance with the applicable provisions of this regulation, and the STD's utility policies and procedures submitted under § 645.119(c)(1).

(ii) Reimbursement will be requested only for those costs properly attributable to the proposed highway construction and eligible for participation under the provisions of this regulation.

(d) The STD's application and any changes to it will be submitted to the FHWA for review and approval.

(e) After the alternate procedure has been approved, the FHWA may authorize the STD to proceed with utility relocation on a project in accordance with the certification, subject to the following conditions:

(1) The utility work must be included in an approved program.

(2) The STD must submit a request in writing for such authorization. The request shall include a list of the utility relocations to be processed under the alternate procedure, along with the best available estimate of the total costs involved.

(f) The FHWA may suspend approval of the alternate procedure when any FHWA review discloses noncompliance with the certification. Federal funds will not participate in relocation costs incurred that do not comply with the requirements under §645.119(c)(1).

(Information collection requirements in paragraph (c) were approved by the Office of Management and Budget under control number 2125-0533)

[50 FR 20345, May 15, 1985, as amended at 65 FR 70311, Nov. 22, 2000]

Subpart B—Accommodation of Utilities

SOURCE: 50 FR 20354, May 15, 1985, unless otherwise noted.

23 CFR Ch. I (4-1-12 Edition)

§ 645.201 Purpose.

To prescribe policies and procedures for accommodating utility facilities and private lines on the right-of-way of Federal-aid or direct Federal highway projects.

§ 645.203 Applicability.

This subpart applies to:

(a) New utility installations within the right-of-way of Federal-aid or direct Federal highway projects,

(b) Existing utility facilities which are to be retained, relocated, or adjusted within the right-of-way of active projects under development or construction when Federal-aid or direct Federal highway funds are either being or have been used on the involved highway facility. When existing utility installations are to remain in place without adjustments on such projects the transportation department and utility are to enter into an appropriate agreement as discussed in §645.213 of this part,

(c) Existing utility facilities which are to be adjusted or relocated under the provisions of §645.209(k), and

(d) Private lines which may be permitted to cross the right-of-way of a Federal-aid or direct Federal highway project pursuant to State law and regulations and the provisions of this subpart. Longitudinal use of such right-of-way by private lines is to be handled under the provisions of 23 CFR 1.23(c).

§ 645.205 Policy.

(a) Pursuant to the provisions of 23 CFR 1.23, it is in the public interest for utility facilities to be accommodated on the right-of-way of a Federal-aid or direct Federal highway project when such use and occupancy of the highway right-of-way do not adversely affect highway or traffic safety, or otherwise impair the highway or its aesthetic quality, and do not conflict with the provisions of Federal, State or local laws or regulations.

(b) Since by tradition and practice highway and utility facilities frequently coexist within common right-of-way or along the same transportation corridors, it is essential in such situations that these public service facilities be compatibly designed and operated. In the design of new highway