

## Utility Joint Use Agreement 80A

Agreement No. WC-JUA-Atmos-CR 170

THE STATE OF TEXAS           §  
COUNTY OF WILLIAMSON       §

County: Williamson  
Road Location: CR 170  
Limits: SH 45  
          to Pflugerville Loop

**WHEREAS**, Williamson County, hereinafter called the **County**, proposes to make certain roadway improvements on that section of the above indicated roadway; and

**WHEREAS**, Atmos Energy Corporation, hereinafter called the **Owner**, proposes to relocate certain of its facilities on, along or across, and within or over such limits of the roadway right of way as indicated on the plans attached, executed by **Owner** on the 26<sup>th</sup> day of July, 2012, or on location sketches attached hereto except as provided below;

**NOW, THEREFORE**, it is hereby mutually agreed that joint use for both roadway and utility purposes will be made of the area within the right of way limits as such area is defined and to the extent indicated on the aforementioned plans or sketches. Where **Owner** by reason of ownership within the area described above of an easement or fee title has the right to alter, modify or add to facilities presently located within the area described or construct additional facilities therein, such right is hereby retained, provided, however, if existing facilities are to be altered or modified or new facilities constructed within said area the **Owner** agrees to notify the **County** prior thereto, to furnish necessary sketches showing location, type of construction and methods to be used for protection of traffic, and if, in the sole opinion of the **County**, such alteration, modification or new construction will injure the roadway or endanger the traveling public using said roadway, the **County** shall have the right, after receipt of such notice, to prescribe such regulations and rules for the work proposed by **Owner** as the **County** deems necessary for the protection of the roadway facility and the traveling public using said roadway; provided further, however, that such regulations and rules shall not extend to the requiring of the placement of intended overhead lines underground or the routing of any lines outside of the area of joint usage above described.

In the event of an emergency, it being evident that immediate action is necessary for protection of the public health and safety and to minimize property damage and loss of investment, either party hereto may at their own responsibility and risk make necessary emergency repairs, notifying the other party hereto of this action as soon as is practical.

Participation in actual costs incurred by the **Owner** for any future adjustment, removal or relocation of utility facilities required by roadway construction shall be in accordance with this Agreement and the laws of the State of Texas. Except as expressly provided herein, (1) the **Owner's** rights of access to the through-traffic roadways and/or ramps shall be subject to the same rules and regulations as apply to the general public, and (2) the **Owner** and the **County**, by execution of this agreement, do not waive or relinquish any right which they may have under the law or Constitution of this State.


In the event the **Owner** fails to comply with the requirements as set out herein, the **County** may take such action, as it deems appropriate to compel compliance.

IN WITNESS WHEREOF, the parties hereto have affixed their signatures.

Owner Atmos Energy Corporation

Williamson County

Utility Name

By   
Authorized Signature

By \_\_\_\_\_  
Authorized Signature

Patti Richards

Dan A. Gattis

*Print or Type Name*

*Print or Type Name*

Vice President, Technical Services

Title: Mid Tex Division

Title: Williamson County Judge

Date: 1/26/12

Date: \_\_\_\_\_

GC  
pm

# GAS UTILITY LOCATION PLAN

PROPOSED 4" POLY II GAS PIPELINE RELOCATION  
C.R. 170 FROM S.H. 45 TO PFLUGERVILLE PARKWAY  
CITY OF ROUND ROCK  
WILLIAMSON COUNTY, TEXAS

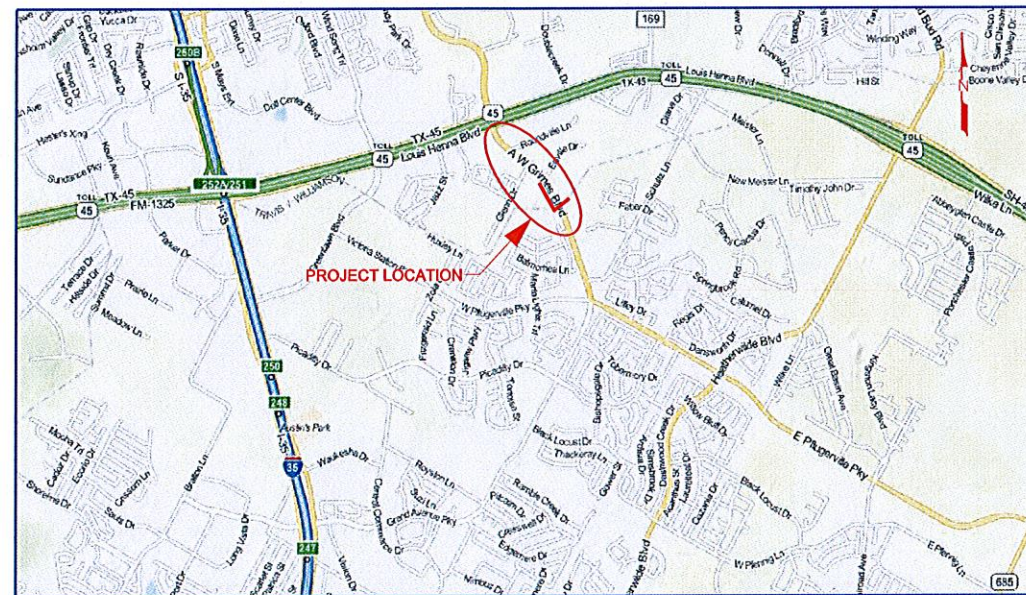


OWNER: ATMOS ENERGY  
5420 LBJ FREEWAY  
DALLAS, TEXAS 75240

## ISSUED FOR BID

THESE DOCUMENTS ARE RELEASED FOR THE PURPOSE OF BID ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION  
HANS J. KAST, PE  
NO. 68757  
DATE: 07/16/12

REV. NO.	DRAWING INDEX
B	UEI-1683555-19000-1101 COVER SHEET / INDEX
B	UEI-1683555-19000-1202 GENERAL NOTES / PIPE DATA
B	UEI-1683555-19000-1303 PLAN AND PROFILE
B	UEI-1683555-19000-1304 PLAN AND PROFILE



LOCATION MAP  
N.T.S.

I, HANS J. KAST, A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THE CIVIL AND MECHANICAL DESIGN OF THE PIPELINE AND RELATED ASSEMBLIES MEETS OR EXCEEDS THE REQUIREMENTS OF THE CODE OF FEDERAL REGULATIONS, TITLE 49, PART 192, "TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE" LATEST EDITION. THIS CERTIFICATION MAKES NO GUARANTEE THAT THIS DRAWING CONTAINS COMPLETE OR CONCLUSIVE INFORMATION. THE CONSTRUCTION CONTRACTOR MUST CONTACT THE STATE "ONE CALL" SYSTEM PRIOR TO ANY EXCAVATION.

HANS J. KAST  
TEXAS P.E. NO. 68757  
DATE

NO.	DATE	REVISION	BY	APPD.
A	02/09/12	ISSUED FOR CLIENT REVIEW	DDJ	HJK
B	07/16/12	ISSUED FOR BID	DDJ	HJK

UniversalPegasus, Inc.  
4848 Loop Central Dr., Houston, Texas 77051-2355  
Houston, Texas 77051-2355 713.977.7770  
Engineering Firm F-1942  
www.universalpegasus.com

PROJ. MGR.	B. CROSSWHITE	UEI JOB NO.: 19000
DRAWN BY:	DDJ	DATE: 02/09/12
CHECKED BY:	ANB	DATE: 02/09/12
APPROVED BY:	HJK	DATE: 02/09/12

GAS UTILITY RELOCATION  
PROPOSED POLY II PIPELINE  
C.R. 170 FROM S.H. 45 TO PFLUGERVILLE PKWY.  
COVER SHEET

WILLIAMSON COUNTY	TEXAS
SCALE: N.T.S.	SHEET 1 OF 4 REV
DRAWING NO	UEI-1683555-19000-1101 B

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douglas.jacobs  
7/17/2012

**POLY II NOTES:**

- CONSTRUCT IN ACCORDANCE WITH CFR TITLE 49, PART 192 AND COMPANY'S GENERAL SPECIFICATIONS AND PROCEDURES.
- CROSSINGS AT PUBLIC ROADS AND HIGHWAYS WILL MEET REQUIREMENTS OF TxDOT UAP/UAR (IF APPLICABLE).
- MINIMUM COVER REQUIREMENTS TO TOP OF PIPE.\*  
**POLY II**  
PARALLEL TO RIGHT-OF-WAY: 36" SOIL NOT TO EXCEED; 42" SOIL  
HIGHWAY CROSSING: 30" PAVEMENT NOT TO EXCEED; 60" PAVEMENT  
X-ING BAR DITCHES: 30" SOIL NOT TO EXCEED 48" SOIL WHERE PRACTICABLE  
**STEEL**  
RIGHT-OF-WAY: 42" NORMAL SOIL 30" CONSOLIDATED ROCK  
HIGHWAY CROSSING: 60" PAVEMENT 48" BAR DITCHES  
RAIL ROAD CROSSING: 11' TRACKS: 5' BAR DITCHES.  
**RIVER/CREEK**  
CROSSING: 60" CHANNEL: 48" BANK AREAS.  
OTHER: 60" LEASE ROADS: 42" FABRICATED ASSEMBLIES.  
\* UNLESS OTHERWISE SPECIFIED 60"
- INHIBITOR: — GAL. METHANOL: — GAL.(ENTIRE LINE)
- CATHODIC PROTECTION:  
☐ ANODES: INSTALL        LB. ANODES PER DWG. STD  
☐ RECTIFIER TO BE INSTALLED AFTER PROJECT COMPLETION.  
☐ EXISTING CATHODIC PROTECTION TO BE USED.  
☐ RECTIFIER TO BE INSTALLED AS PART OF CONSTRUCTION PROJECT.  
☒ POLY SYSTEM, CATHODIC PROTECTION NOT REQUIRED.
- ALL DISTANCES SHOWN ARE HORIZONTAL SURFACE DISTANCES.
- CONTRACTOR SHALL INSTALL ATMOS ENERGY SUPPLIED CATHODIC TEST LEAD STATIONS NO MORE THAN EVERY ONE (1) MILE AS DIRECTED BY THE ON-SITE ATMOS ENERGY REPRESENTATIVE. TEST STATIONS SHALL BE INSTALLED AT THE FENCE LINE, ADJACENT TO AND JUST INSIDE THE ROAD RIGHT-OF-WAY AND OFFSET FROM THE PIPELINE.
- PROPOSED AND KNOWN EXISTING PIPELINES ALONG WITH ALL KNOWN UNDERGROUND OBSTRUCTIONS TO BE STAKED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PREVIOUSLY UNDISCOVERED UNDERGROUND OBSTRUCTIONS.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" OPEN CUT/ 48" BORE OR HORIZONTAL DIRECTIONAL DRILL (HDD) CLEARANCE BETWEEN PIPELINE AND ALL UNDERGROUND OBSTRUCTIONS. IF ALL UNDERGROUND UTILITIES CAN BE LOCATED BY POT HOLING, THEN BORE OR HDD CLEARANCE MAY BE WAIVED TO 18" MINIMUM BY THE ON-SITE ATMOS ENERGY REPRESENTATIVE.
- NO DISTURBANCE WITHIN 3 FEET HORIZONTALLY OF EXISTING ATMOS ENERGY PIPELINES WITHOUT PRIOR APPROVAL BY ATMOS ENERGY. AN ATMOS ENERGY REPRESENTATIVE MUST BE PRESENT DURING ANY CONSTRUCTION ACTIVITIES AROUND OR OVER ATMOS ENERGY PIPELINES.
- UNIVERSAL ENSCO, INC. MAKES NO WARRANTY (EXPRESS, IMPLIED OR OTHERWISE) THAT THE INFORMATION CONTAINED HEREIN IS ACCURATE OR COMPLETE AS TO ANY AND ALL SUBSURFACE CONDITIONS. INFORMATION CONTAINED HEREIN AS TO SUCH CONDITIONS IS DONE SO AT CONTRACTOR'S OWN RISK AND EXPENSE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE STATE "ONE CALL" SYSTEM PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL CONTACT ATMOS ENERGY REPRESENTATIVE DARWIN ZRUBEK (OFFICE: 510-310-3854) AT LEAST 72 HOURS (3 BUSINESS DAYS) BEFORE COMMENCING WORK THAT WOULD AFFECT ANY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY FOR LOCATION OF WATER AND SANITARY SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL CONTACT THE STATE ONE CALL SYSTEM AT 1-800-545-6005 AND DIG TESS AT 1-800-344-8377 LEAST 48 HOURS (2 BUSINESS DAYS) BEFORE COMMENCING WORK THAT WOULD AFFECT ANY UNDERGROUND UTILITIES.
- CONTRACTOR TO BUILD TO ELEVATIONS NOT DEPTH OF COVER.
- CONTRACTOR TO GATHER AND DELIVER X-Y-Z AS-BUILT DIMENSIONS FOR ALL POINTS OF INFLECTION AND TIE-INS.
- CONTRACTOR SHALL INSTALL APPROVED TRACING WIRE ALONG THE ENTIRE LENGTH AND ADJACENT TO POLYETHYLENE PIPE. TRACER WIRE TO BE INSTALLED APPROXIMATELY TWO TO FOUR INCHES FROM PIPE AND ON SAME APPROXIMATE ELEVATION AS PIPE. TRACER WIRE SHALL BE INSTALLED ALONG WITH POLYETHYLENE PIPE IN DIRECTIONAL BORES. CONTRACTOR SHALL INSTALL ATMOS SUPPLIED TRACER WIRE TEST BOXES APPROXIMATELY EVERY 500 FEET AS DIRECTED BY THE ON-SITE ATMOS ENERGY REPRESENTATIVE.
- CONTRACTOR SHALL INSTALL ATMOS ENERGY SUPPLIED PIPELINE MARKERS (T-POST WITH BOLT ON SIGNS) APPROXIMATELY EVERY 400 FEET AS DIRECTED BY THE ON-SITE ATMOS ENERGY REPRESENTATIVE.
- CONTRACTOR TO COORDINATE WITH THE ON-SITE ATMOS ENERGY REPRESENTATIVE FOR IMPLEMENTATION OF THE SWPPP (IF REQUIRED), AND/OR DISPOSAL OF ACM, UTILIZING ATMOS ENERGY DISPOSAL CONTRACTOR.

- THESE DRAWINGS ARE FOR REFERENCE ONLY. GAS LINE LOCATIONS AND OTHER MEASUREMENTS SHOWN ON THESE MAPS ARE APPROXIMATE. ATMOS ENERGY DOES NOT GUARANTEE THE ACCURACY OF THESE MAPS NOR DOES ATMOS ENERGY ASSUME ANY RESPONSIBILITY OR LIABILITY FOR RELIANCE THEREON. ANY RELIANCE ON THIS INFORMATION IS DONE AT CONTRACTOR'S OWN RISK.
- UNIVERSAL ENSCO, INC. ADDED THE PROPOSED ATMOS ENERGY PIPELINE TO THE EXISTING DRAWINGS PROVIDED BY BAKER-AICKLEN & ASSOCIATES.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED TO FILL FALSE HOLES CREATED FROM DIRECTIONAL DRILLS AFTER PIPE REMOVAL WITH FLOWABLE FILL.
- CONTRACTOR VERIFY THE LOCATION, RELOCATION, ABANDONMENT, AND/OR TEMPORARY SUPPORT OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION OF THE STRUCTURE AND EMBANKMENT AND COORDINATE THESE ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES, AGENCIES, AND/OR AUTHORITIES. FOR INFORMATION ON, AND RELOCATION OF, FIBER OPTIC CABLE. SEE EXISTING UTILITY SHEETS.

**WILLIAMSON COUNTY, TxDOT NOTES:**

- WHILE WORKING WITHIN THE RIGHT OF WAY OF CR 170 CONTRACTOR WILL BE REQUIRED TO COORDINATE INSTALLATION ACTIVITIES THROUGH WILLIAMSON COUNTY'S TxDOT UTILITY CONSTRUCTION MANAGER AT [ph. no. listed on permit].
- LANE CLOSURES ARE NOT ALLOWED IN INCLEMENT WEATHER OR IF THE PAVEMENT IS WET OR ICY.
- THE UTILITY COMPANY OR ITS CONTRACTOR WILL BE HELD RESPONSIBLE FOR KEEPING THE STATE ROADWAY FREE OF MUD, ROCKS, AND GENERAL DEBRIS.
- CONSTRUCTION EQUIPMENT LEFT OVERNIGHT IN THE RIGHT OF WAY MUST BE SECTIONED OFF WITH ORANGE PLASTIC MESH FENCING, AND BE PLACED AT LEAST 30' OFF THE EDGE OF PAVEMENT. EQUIPMENT LOCATED CLOSER THAN 30' MUST BE PROTECTED BY CONCRETE TRAFFIC BARRIERS (CTB).
- FIELD CREWS WILL NOT BE ALLOWED TO PARK THEIR VEHICLES WITHIN THE STATE RIGHT-OF-WAY.
- BORE PITS LOCATED CLOSER THAN 30' FROM EDGE OF PAVEMENT MUST BE PROTECTED BY CONCRETE TRAFFIC BARRIERS (CTB). OPEN PITS MUST BE SEALED OFF BY ORANGE PLASTIC MESH FENCING, CONES AND DRUMS.
- ALL ASPHALT AND CONCRETE DRIVEWAYS LOCATED WITHIN THE COUNTY AND/OR STATE RIGHT-OF-WAY MUST BE BORED. AN EXCEPTION TO THIS RULE WILL BE ALLOWED, ONLY IF THE OWNER OF THE DRIVEWAY IS WILLING TO PROVIDE TxDOT A LETTER GRANTING THE CONTRACTOR PERMISSION TO OPEN CUT THEIR DRIVEWAY. THE LETTER MUST BE SIGNED AND REFLECT THE PROPERTY OWNER'S NAME, ADDRESS, AND PHONE NUMBER. TxDOT MAY CONTACT THE OWNER TO VERIFY THE LETTER'S ACCURACY.
- TRAFFIC CONTROL MUST CONFORM TO TxDOT REQUIREMENTS AND RECOMMENDATIONS, AND SHOULD MEET OR EXCEED THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TxMUTCD).
- THE UTILITY COMPANY AND/OR ITS CONTRACTOR MUST LOCATE EXISTING UTILITY LINES PRIOR TO DOING ANY GROUND WORK LIKE BORING, DIGGING, TRENCHING, OR DRILLING WITHIN THE RIGHT-OF-WAY.
- THE PERMIT HOLDER WILL BE REQUIRED TO RESTORE THE GROUND TO ITS PRIOR STATE, AND REVEGETATE ALL DISTURBED AREAS.
- THE CONTRACTOR MUST CONTACT TxDOT 48 HOURS PRIOR TO WORKING IN THE RIGHT-OF-WAY. THE CONTACT PERSONS NAME AND PHONE NUMBER WILL BE SHOWN ON THE APPROVED UTILITY PERMIT REQUEST FORM.
- WHILE WORKING WITHIN THE RIGHT-OF-WAY OF C.R. 170, THE CONTRACTOR WILL BE REQUIRED TO COORDINATE INSTALLATION ACTIVITIES THROUGH WILLIAMSON COUNTY'S TxDOT UTILITY CONSTRUCTION MANAGER AT [phone number].
- WHILE WORKING IN RIGHT-OF-WAY UNDER JURISDICTION OF WILLIAMSON COUNTY, WORK TIMES SHALL BE MONDAY THRU FRIDAY 8:30 am - 4:30 pm

**POLY II PIPE TABLE**

MARK	NOMINAL PIPE SIZE (INCHES)	D	t	DIAMETER RATIO D/R	S	MAX. DESIGN PRESSURE (PSIG)	DESIGN MAOP (PSIG)	PSIG @ 100% S.M.Y.S.	MINIMUM TEST PRESSURE (PSIG)	MAXIMUM TEST PRESSURE (PSIG)	MINIMUM TEST DURATION HOURS	INTERNAL HOOP STRESS % S.M.Y.S.	PIPE LENGTH (FEET)
		O.D. (in.)	MIN. W.T. (in.)		MIN. YIELD (PSI)								
A	4	4.50	0.409	11.0	1250	80	60	250	120	130	*	24	201
*TESTING SPECIFICATIONS: CONSTRUCTION PROCEDURES, CHAPTER 6, LATEST EDITION. FUSION SPECIFICATIONS: CONSTRUCTION PROCEDURES, CHAPTER 3, LATEST EDITION.													

**PRINCIPAL DESIGN EQUATION (BARLOW'S) FOR POLY II PIPE**

$$P= 2 \times S \times \frac{t}{D-1} \times .32$$

WHERE:

P= DESIGN PRESSURE (PSIG )

S= MIN. YIELD STRENGTH (PSI)

D= NOMINAL OUTSIDE DIAMETER (IN.)

t= NOMINAL WALL THICKNESS OF PIPE (IN.)

MAOP= MAXIMUM ALLOWABLE OPERATING PRESSURE (PSIG)

**4" POLY II**

$$P=2 \times 1250 \times \left[ \frac{0.409 \text{ IN.}}{4.50 \text{ IN.}-0.409 \text{ IN.}} \right] \times .32$$

P= 80 PSIG ALLOWABLE BY CALCULATION

P= 60 PSIG ACTUAL DESIGN MAOP

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HANS J. KAST, PE  
NO. 98757  
DATE: 07/16/12

I, HANS J. KAST, A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THE CIVIL AND MECHANICAL DESIGN OF THE PIPELINE AND RELATED ASSEMBLIES MEETS OR EXCEEDS THE REQUIREMENTS OF THE CODE OF FEDERAL REGULATIONS, TITLE 49, PART 192, "TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE" LATEST EDITION. THIS CERTIFICATION MAKES NO GUARANTEE THAT THIS DRAWING CONTAINS COMPLETE OR CONCLUSIVE INFORMATION. THE CONSTRUCTION CONTRACTOR MUST CONTACT THE STATE "ONE CALL" SYSTEM PRIOR TO ANY EXCAVATION.

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TEXAS P.E. NO. 98757

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**ATMOS**  
energy

**UniversalPegasus**  
INTERNATIONAL  
Universal Ensco, Inc.  
4048 Loop Central Dr., Houston, Texas 77081-2355  
Houston, Texas 77081-2355    713.977.7770  
Engineering Form E-1942  
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PROJ. MGR.	B. CROSSWHITE	UEI JOB NO.:	19000
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APPROVED BY:	HJK	DATE:	02/09/12

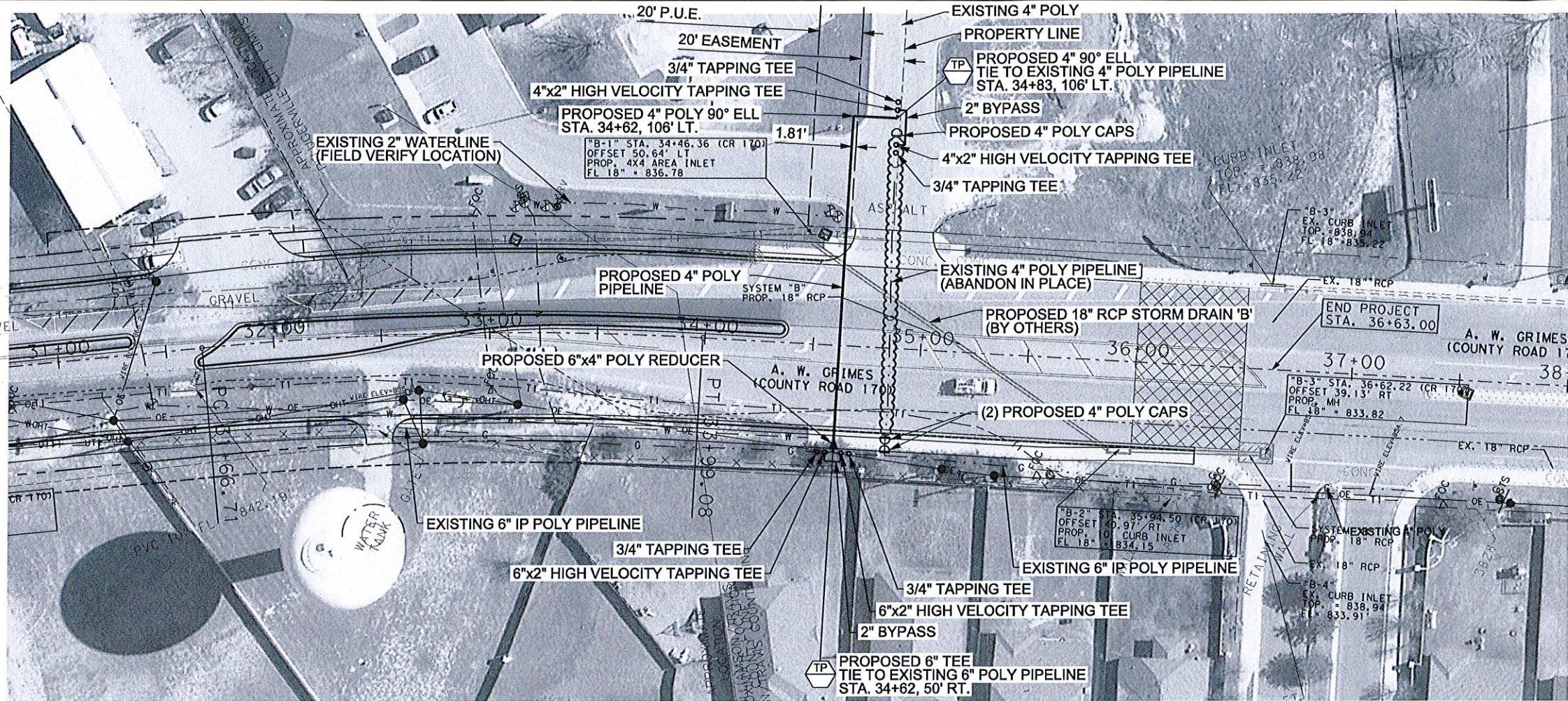
GAS UTILITY RELOCATION PROPOSED POLY II PIPELINE C.R. 170 FROM S.H. 45 TO PFLUGERVILLE PKWY. GENERAL NOTES / PIPE DATA			
WILLIAMSON COUNTY		TEXAS	
SCALE:	N.T.S.	SHEET 2 OF 4	REV
DRAWING NO	UEI-1683555-19000-1202		B



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santiago.mendoza  
7/19/2012



## ISSUED FOR BID

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HANS J. KAST, PE  
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APPROVED BY:	HJK	DATE:	02/14/12

**GAS UTILITY RELOCATION  
PROPOSED POLY II PIPELINE  
C.R. 170 FROM S.H. 45 TO PFLUGERVILLE PKWY.  
PLAN & PROFILE**

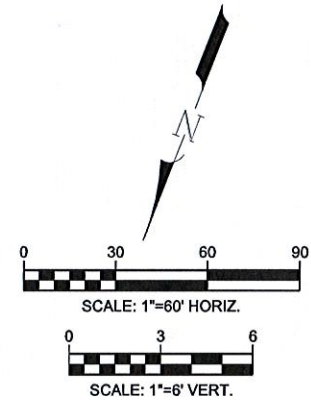
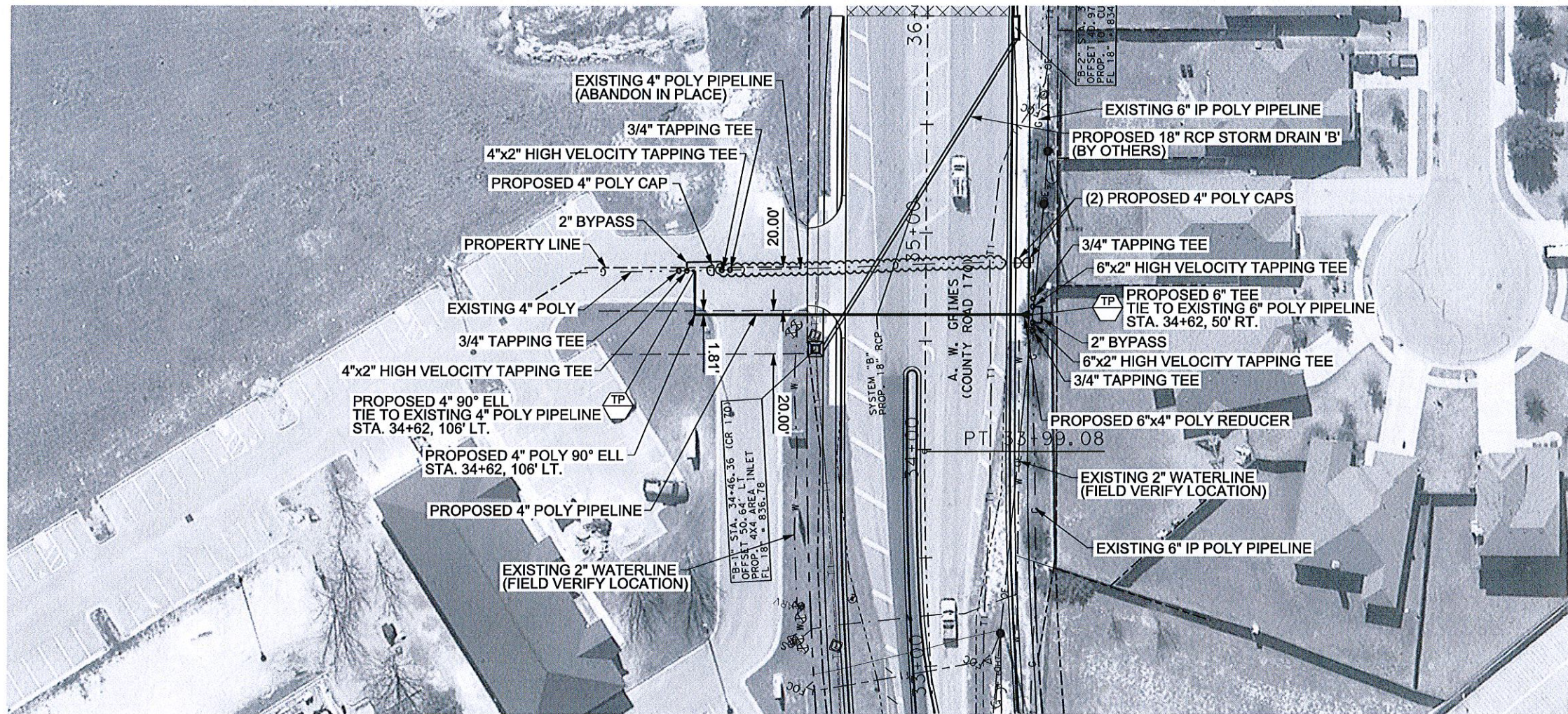
WILLIAMSON COUNTY	TEXAS
SCALE: N.T.S.	SHEET 3 OF 4
DRAWING NO	UEI-1683555-19000-1303
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santiago.mendoza  
7/19/2012



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**GAS UTILITY RELOCATION  
PROPOSED POLY II PIPELINE  
C.R. 170 FROM S.H. 45 TO PFLUGERVILLE PKWY.  
PROFILE**

WILLIAMSON COUNTY	TEXAS
SCALE: N.T.S.	SHEET 4 OF 4
DRAWING NO	UEI-1683555-19000-1304
REV	B