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SCANNED BY
PLANNING

CONSTRUCTION PLANS FOR FIRESTONE QUAIL RIDGE

ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE 2010

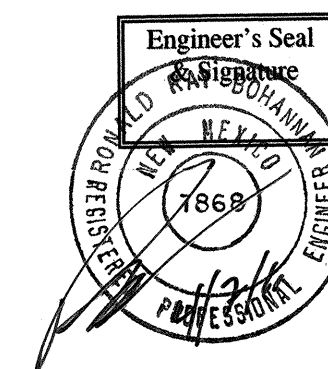
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| 05 | UTILITY IMPROVEMENTS: CONNECT TO EXISTING SERVICES
57TH STREET NW - FIRELINE, DOMESTIC & IRRIGATION |

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

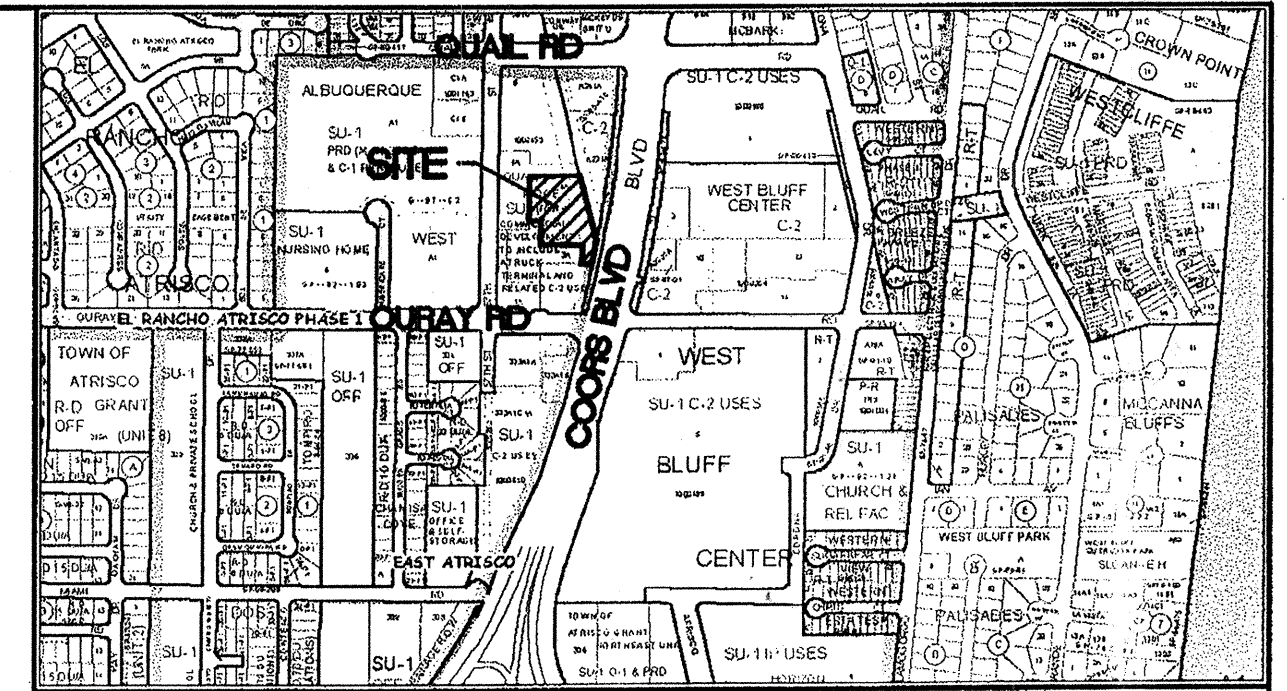
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with as built information provided by Tierra West LLC.



APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
Paul Gil
DATE: 6-27-2011

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NEW MEXICO 87109
505-858-3100
www.tierrawestllc.com

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	REPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		<i>Woodall</i>		7-27-10	
		Transportation		<i>Woodall</i>		7-26-10	
		Water/Wastewater		<i>Woodall</i>		7-26-10	
		Hydrology		<i>Woodall</i>		7-26-10	
		AMAFCA		<i>Woodall</i>		7-26-10	
Constr. Mngmt.							
Constr. Coord.							
CITY PROJECT NO.		719182		SHEET		11	
RONALD R. BOHANNAN P.E. #7868				DATE		3-21-11	



VICINITY MAP H-11-Z
SCALE NONE

NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HERE ON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7 INCLUDING AMENDMENT 1.
- TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES.
- SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION; CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACE ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS UPDATE NO. 7.
- ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS). THE CONTRACTOR SHALL NOTIFY THE ABCWUA (857-8200) THREE (3) WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES. *5th 7/26/10*
- FOR STORM DRAIN CONSTRUCTION, RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURERS RECOMMENDATION. MANUFACTURERS RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
- THE CONTRACTOR SHALL COORDINATE WITH ABCWUA (857-8200) SEVEN (7) WORKING DAYS PRIOR TO ANY WORK IN WHICH MAY AFFECT THE EXISTING ABCWUA PUBLIC WATER OR SEWER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. EXISTING PUBLIC VALVES TO BE OPERATED BY ABCWUA PERSONNEL ONLY. REFER TO SECTION 18 OF THE STANDARD SPECIFICATIONS.
- ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.850 SUBPART P.
- ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.
- PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- ALL WATER VALVE BOXES MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO STANDARD STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY PROJECT ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND CENTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETE PRIOR TO FINAL ACCEPTANCE.

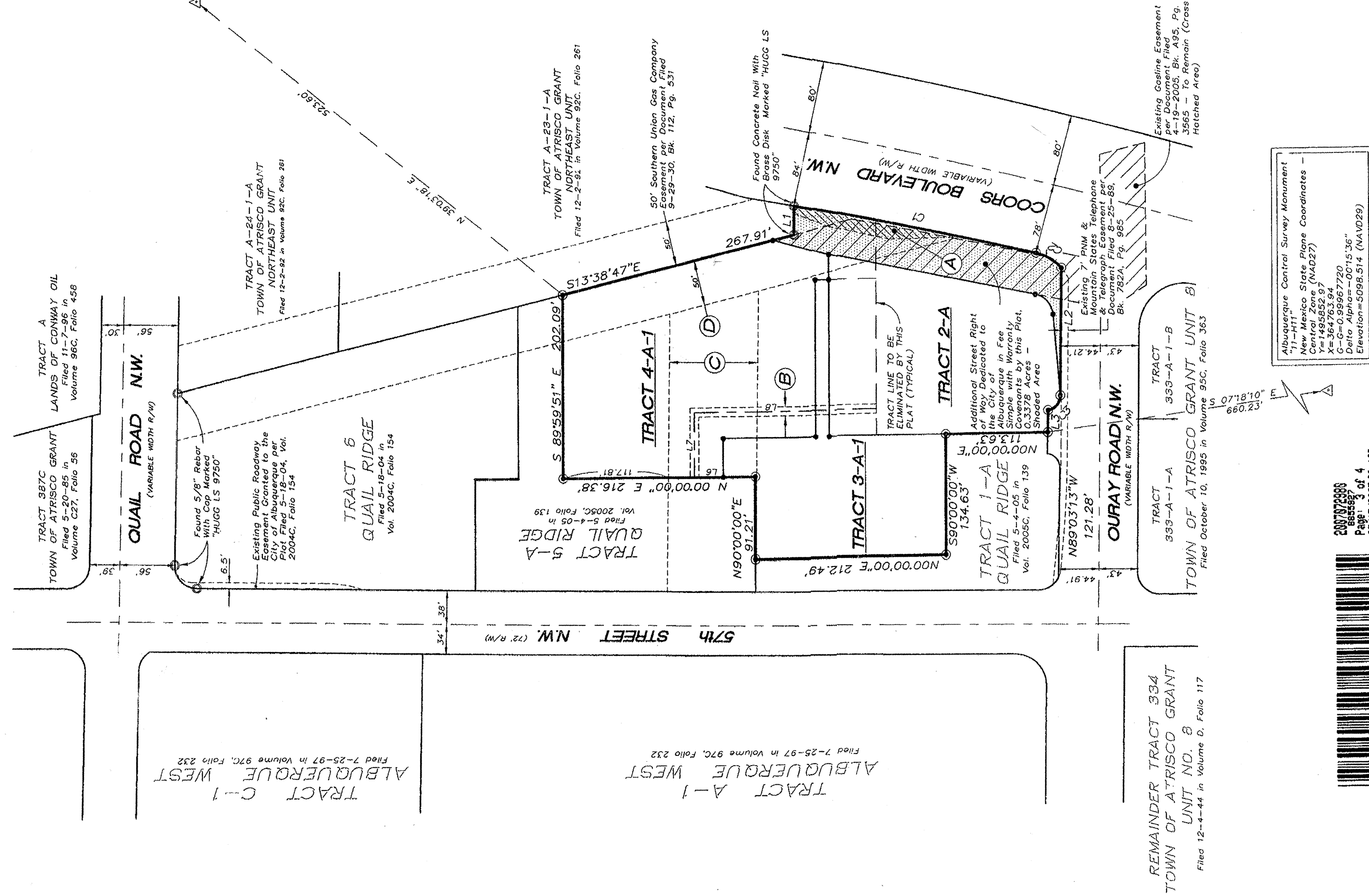
**BOUNDARY INFORMATION, EXISTING
EASEMENTS**

CONNECTION FLA!
TRACTS 2-A, 3-A-1 AND 4-A-1
QUAIL RIDGE
(BEING A REPLAT OF TRACTS 2, 3-A AND 4-A QUAIL RIDGE)

THE TOWN OF ATRISCO GRANT
SECTION 11, TOWNSHIP 10 NORTH, RANGE 2 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
OCTOBER, 2005

SCANNED BY
PLANNING

SEE SHEET 4 OF 4 FOR NEW TRACT INFORMATION



LINE	LENGTH	BEARING
L1	32.43'	S89°45'47"E
L2	139.66'	N89°19'00"W
L3	24.17'	N88°52'28"W
L4	58.55'	S75°45'52"W
L5	15.00'	N00°00'00"E
L6	32.13'	N00°00'00"E
L7	72.50'	N90°00'00"E
L8	20.31'	S00°00'00"W

LINE TAB E

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD BEARING	DELTA
C1	275.89	5646.45'	17.97	275.87	S12°08.14'W	24°15.8'
C2	33.32	55.00'	13.79	32.82	S30°53.45'W	24°15.2'
C3	22.64	16.00'	13.69	20.80	N48°46.33'W	81°04.54'
C4	31.07	25.00'	18.50	20.84	N48°25.03'W	77°15.25'

CURVE TABLE

SURV **TEK, INC.**

SHEET 3 OF 4

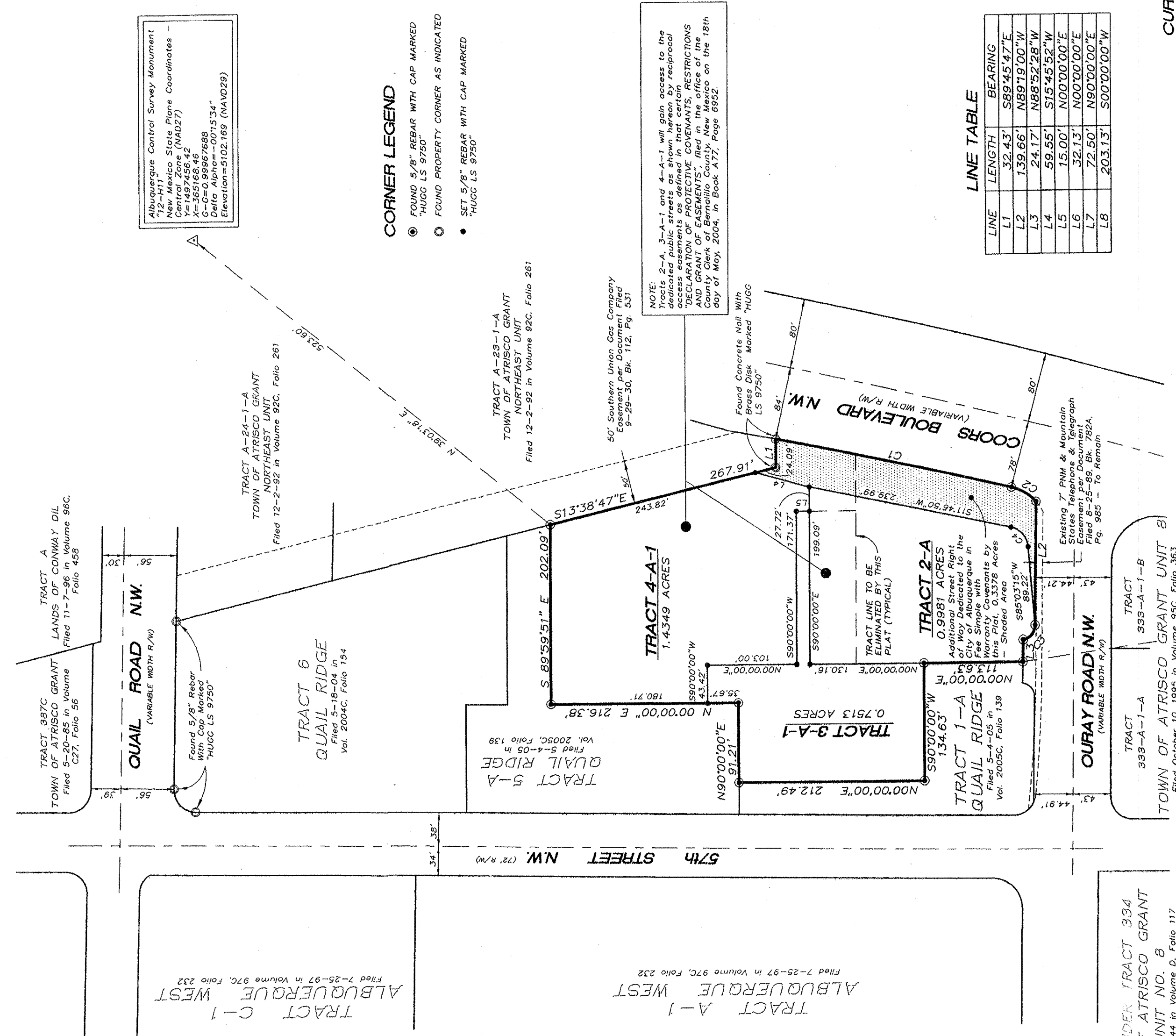
Phone: 505-897-3366
Fax: 505-897-3377

NEW TRACTS

CORRECTION PLAT
TRACTS 2-A, 3-A-1 AND 4-A-1
QUAIL RIDGE

THE TOWN OF ATRISCO GRANT
PROJECTED SECTION 11, TOWNSHIP 10 NORTH, RANGE 2 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
OCTOBER, 2005

SEE SHEET 3 OF 4 FOR BOUNDARY
INFORMATION AND EXISTING EASEMENTS



LINE	LENGTH	BEARING
L1	32.43'	S89°45'47"E
L2	139.66'	N89°19'00"W
L3	24.17'	N88°52'28"W
L4	59.55'	S15°45'52"E
L5	15.00'	N00°00'00"E
L6	32.13'	N00°00'00"E
L7	72.50'	N90°00'00"E
L8	203.13'	S00°00'00"W

LINE TABLE

CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	DELTA
C1	375.89'	5646.45'	137.97'	S70°08'14"W	241°58'
C2	33.32'	55.00'	17.19'	S30°53'45"W	34.42°52'
C3	22.64'	16.00'	13.69'	N48°46'33"W	81°04'54"
C4	31.97'	25.00'	18.59'	N48°25'03"E	73°16'25"

CURVE TABLE

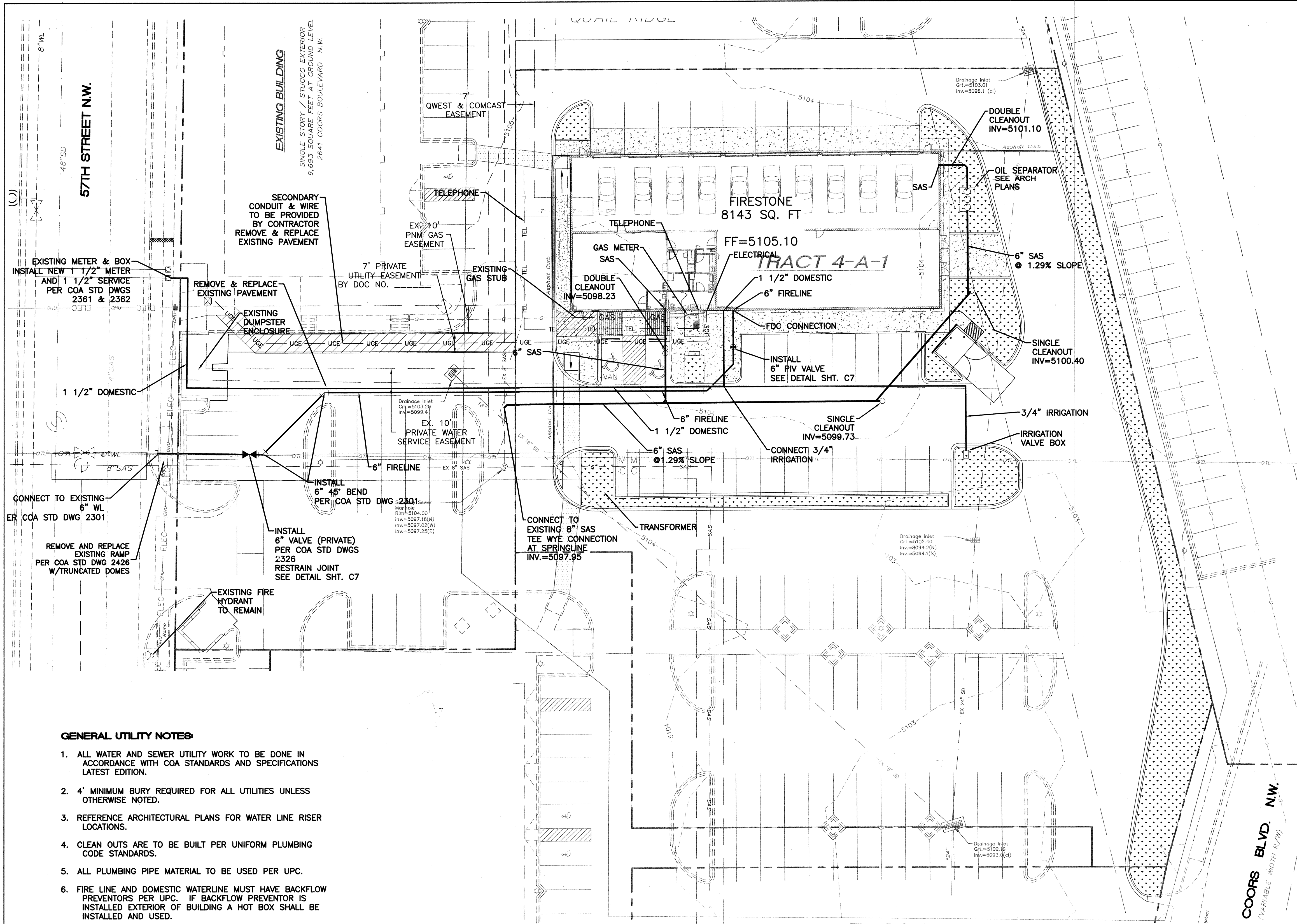
NOTE

Said Tracts 2-A, 3-A-1 and 4-A-1 are subject to all restrictions, conditions and requirements as set forth in that certain "DECLARATION OF PROTECTIVE COVENANTS, RESTRICTIONS AND GRANT OF EASEMENTS", filed in the office of the County Clerk of Bernalillo County, New Mexico on the 18th day of May 2004, in Book A77, Page 6382.

SURV $\oplus$ TEK, INC.

SHEET 4 OF 4

Phone: 505-897-3366
Fax: 505-897-3377



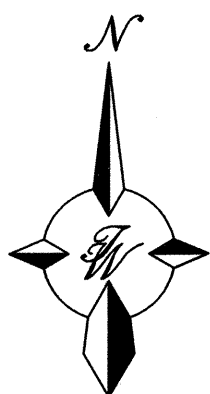
LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- CENTERLINE
- RIGHT-OF-WAY
- BUILDING
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE
- 6" SAS
- 6" WL
- SINGLE CLEAN OUT
- DOUBLE CLEAN OUT
- EXISTING SD MANHOLE
- EXISTING INLET
- EXISTING SAS MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER POLE
- EXISTING GAS VALVE
- EXISTING OVERHEAD UTILITIES
- EXISTING UNDERGROUND UTILITIES
- EXISTING GAS
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM SEWER LINE

NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED. 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

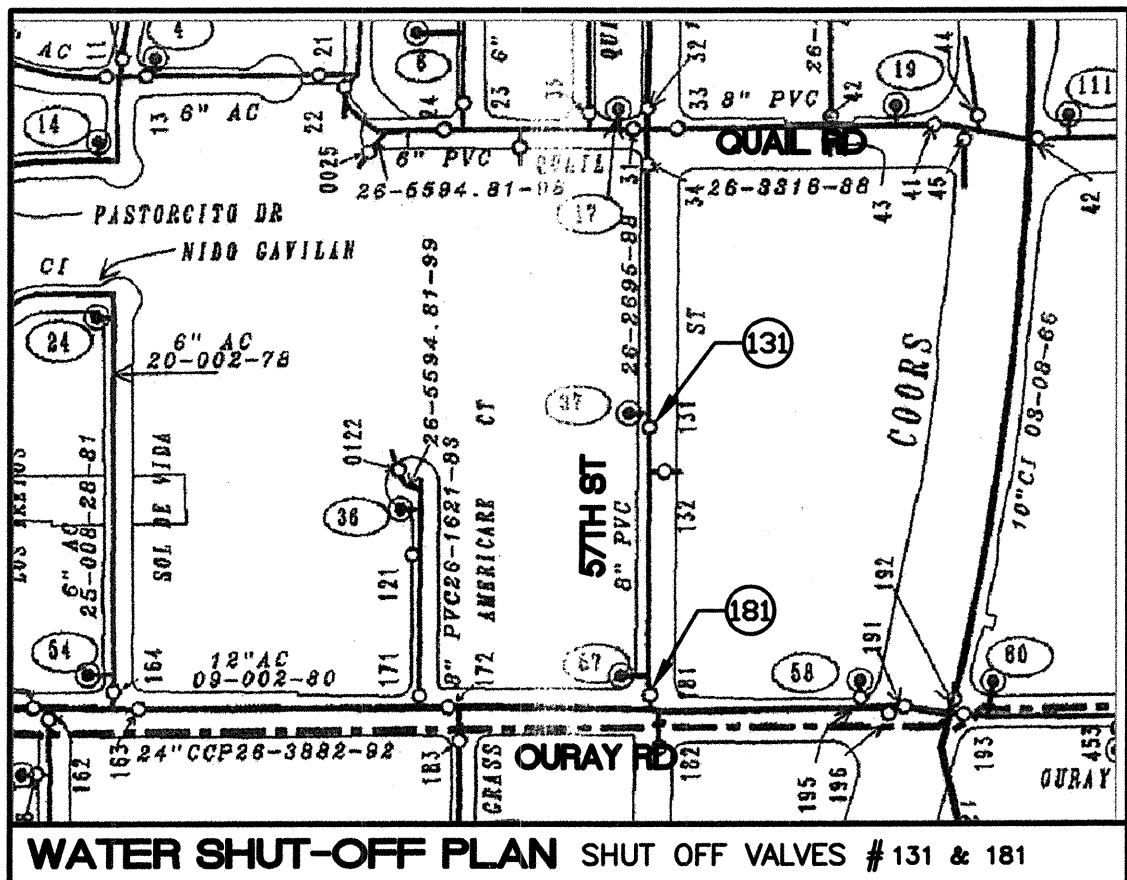
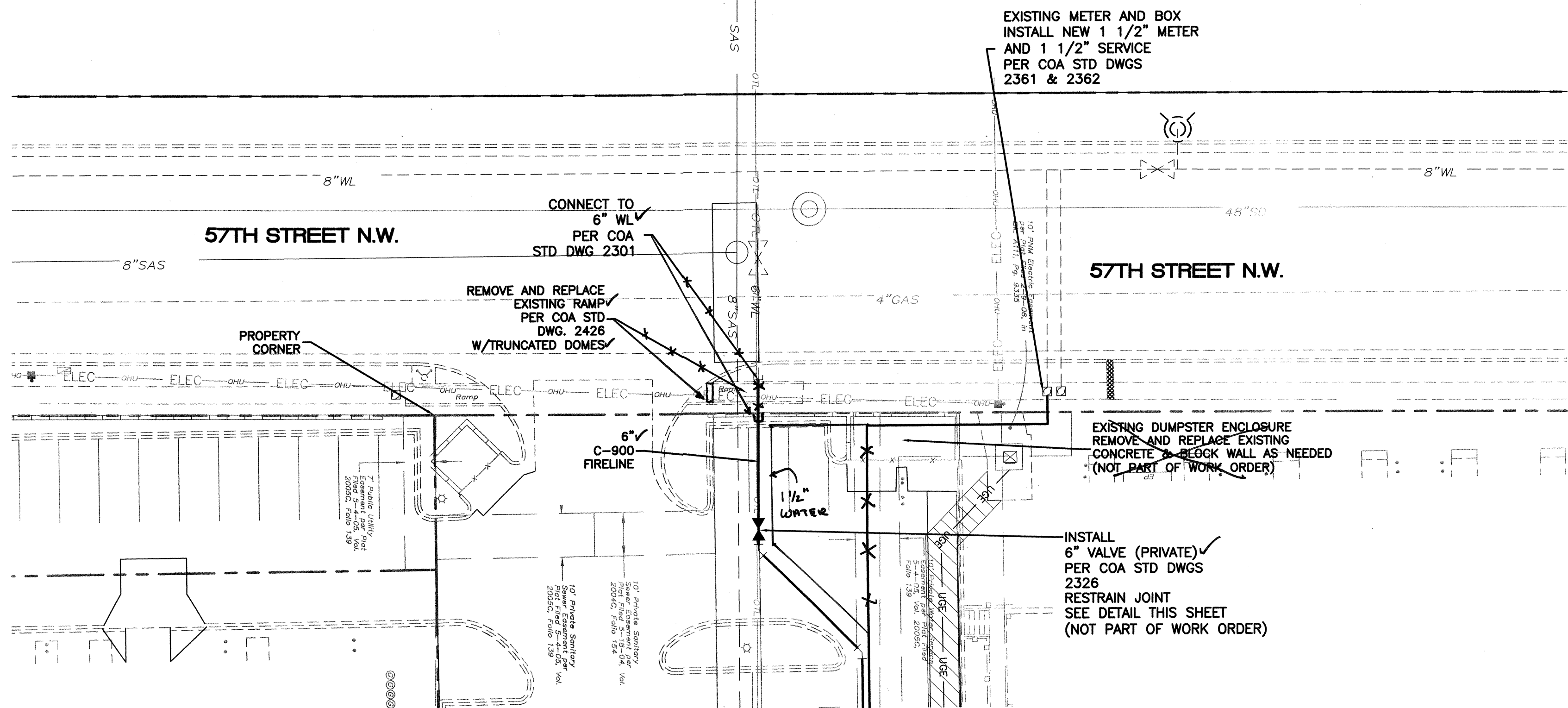
APPROVAL	NAME	DATE
INSPECTOR		



SCALE: HORIZ. 1"=20'
VERT. 1"=10'

TERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100 www.tierrawestllc.com	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: FIRESTONE - QUAIL RIDGE MASTER UTILITY PLAN	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
For Information Only	
CITY PROJECT NO.	719182
ZONE MAP NO.	H-11-Z
SHEET	04 OF 05

FOR REFERENCE ONLY

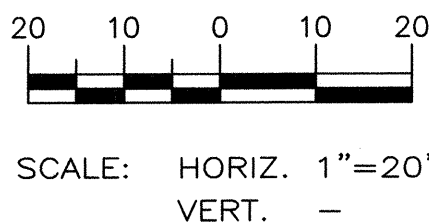
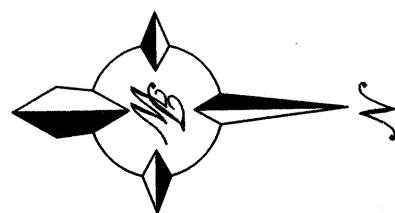
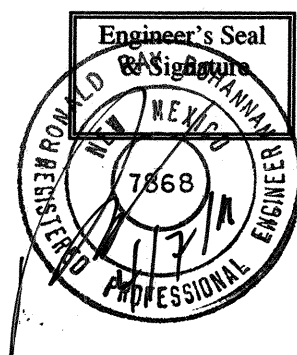


- NOTES:
- ONLY ABCWUA PERSONNEL ARE AUTHORIZED TO OPERATE VALVES
 - NOTIFY ABCWUA, (PHONE 857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT OFF PLAN
 - APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
 - SHUTOFF THE VALVES INDICATED IN THE ABOVE PLAN
 - CONTRACTOR TO PROVIDE AS-BUILT NORTHING AND EASTING COORDINATES FOR NEW PUBLIC VALVE.

CAUTION:
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me, or personnel under my direction with as built information provided by Tierra West LLC.



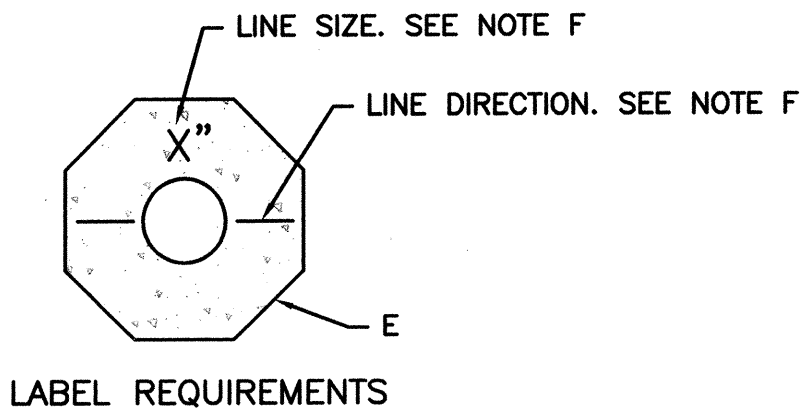
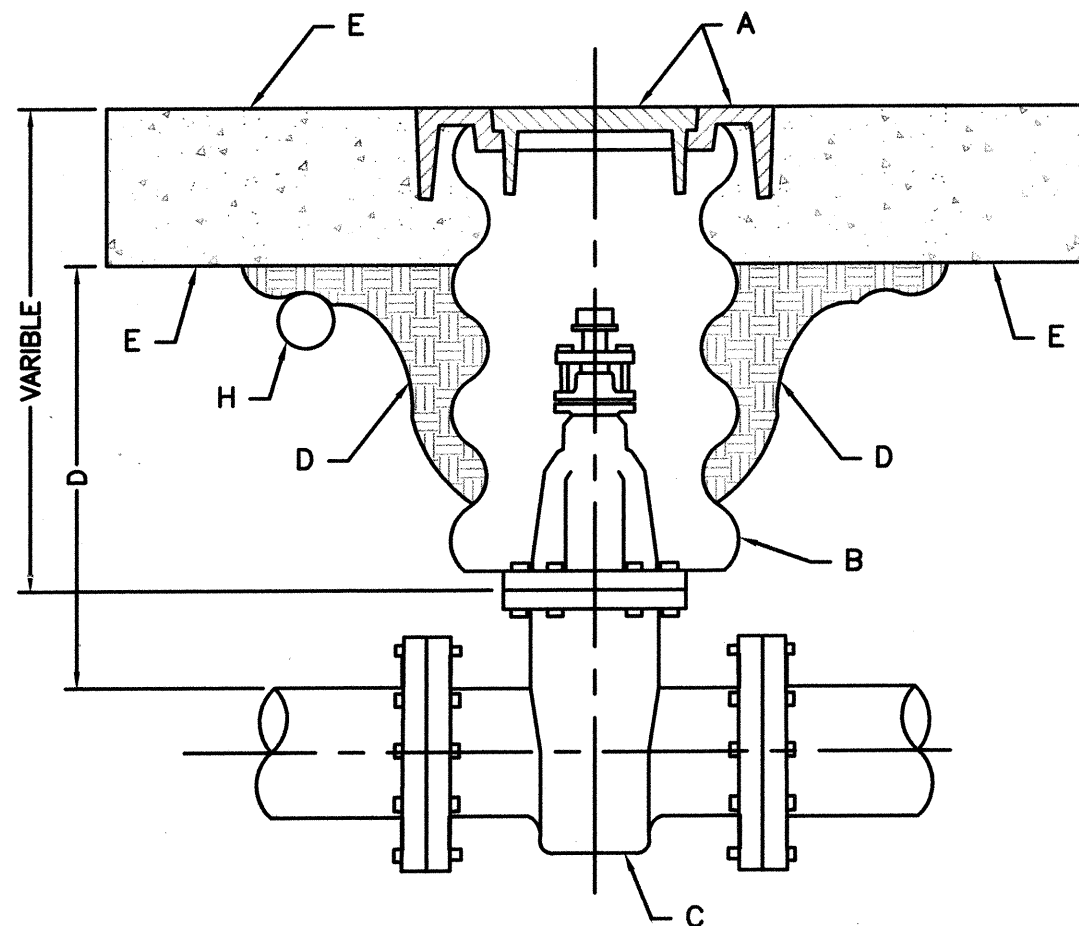
THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:
DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL
BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

RESTRAINED JOINT LENGTHS FOR TEES*						
SIZE	LENGTH ALONG RUN**					
	10'	8'	6'	4'	2'	0'
12x12x12	61	68	76	83	90	98
12x12x10	39	48	56	65	74	83
12x12x8	15	26	37	48	59	70
12x12x6	1	1	9	24	38	53
12x12x4	1	1	1	1	16	37
10x10x10	46	54	61	68	76	83
10x10x8	25	34	43	52	61	70
10x10x6	1	5	17	29	41	53
10x10x4	1	1	1	2	20	37
8x8x8	34	42	49	56	63	70
8x8x6	6	15	25	34	43	53
8x8x4	1	1	1	10	24	37
6x6x6	7	24	31	39	46	53
6x6x4	1	1	6	17	27	37

*RESTRAINTS ONLY PLACED ON THE BRANCH
**LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)				
SIZE	HORIZONTAL BENDS			VALVES
	90°	45°	22-1/2°	11-1/4° DEAD END
12	45	19	9	4
10	38	16	8	4
8	32	13	6	3
6	25	10	5	2
4	18	7	4	1



ABCWUA
WATER VALVE BOX
STANDARD DRAWING 2326

GENERAL NOTES:

- VALVE BOX RING AND COVER PER C.O.A. STD DWG. 2328.
- 12" DIAMETER CORRUGATED METAL PIPE (CMP). TAR COATED.
- NEW OR EXISTING VALVE.
- COMPACTED BACKFILL. SOIL OR BASE COURSE MATERIAL (95% COMPACTION). SEE SECTION 701
- CONCRETE COLLAR PER C.O.A. STD. DWG. 2461
- TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT. ADD "FL" FOR VALVES ON FIRE LINES.
- MIN. 6" OR MATCH EXISTING.
- ELECTRONIC MARKER DEVICE (EMD). SEE COA STANDARD SPECIFICATION SECTION 120.

TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505)858-3100 www.tierrawestllc.com	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: FIRESTONE - QUAIL RIDGE UTILITY IMPROVEMENTS 57TH STREET NW	
DESIGN REVIEW COMMITTEE APPROVED NOV 11 2010 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED MAR 21 2011 CITY ENGINEER
CITY PROJECT NO. 719182	ZONE MAP NO. H-11-Z
SHEET 05	OF 05