

SCANNED BY  
PLANNING

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26-113511-35-2010

# CONSTRUCTION PLANS FOR SAN ANTONIO STORAGE UNITS

## UTILITY & PAVING IMPROVEMENTS

CITY OF ALBUQUERQUE  
NEW MEXICO  
SEPTEMBER 2009

I, LENORE R ARMJO, A DULY QUALIFIED REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND 'AS-BUILT' SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWINGS WAS ADDED BY ME OR UNDER MY SUPERVISION, AND THAT THIS 'AS-BUILT' INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM NOT RESPONSIBLE FOR ANY OTHER THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORD DRAWINGS

R  
G  
E

### INDEX TO DRAWINGS

1. TITLE SHEET
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9. UTILITY VENTING BARRIER DETAIL SHEET
10. LANDFILL GAS MITIGATION PLAN
11. ACCESS GATE DETAILS

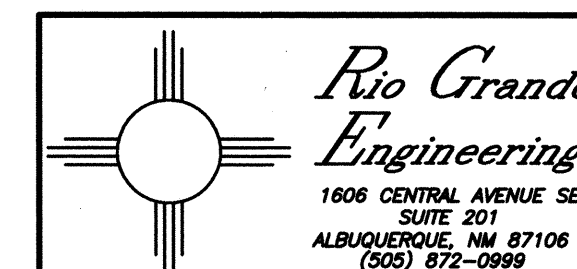
THE SUBJECT PROPERTY IS LOCATED NEAR A FORMER LAND FILL. DUE TO THE SUBJECT PROPERTY BEING NEAR A FORMER LANDFILL, CERTAIN PRECAUTIONARY MEASURES MAY NEED TO BE TAKEN TO ENSURE THE HEALTH AND SAFETY OF THE PUBLIC. RECOMMENDATIONS MADE BY A PROFESSIONAL ENGINEER WITH EXPERTISE IN LANDFILLS AND LANDFILL GAS ISSUES (AS REQUIRED BY THE MOST CURRENT VERSION OF THE INTERIM GUIDELINES FOR DEVELOPMENT WITHIN CITY DESIGNATED LANDFILL BUFFER ZONES) SHALL BE CONSULTED PRIOR TO DEVELOPMENT OF THE SITE.

### RECORD DRAWINGS

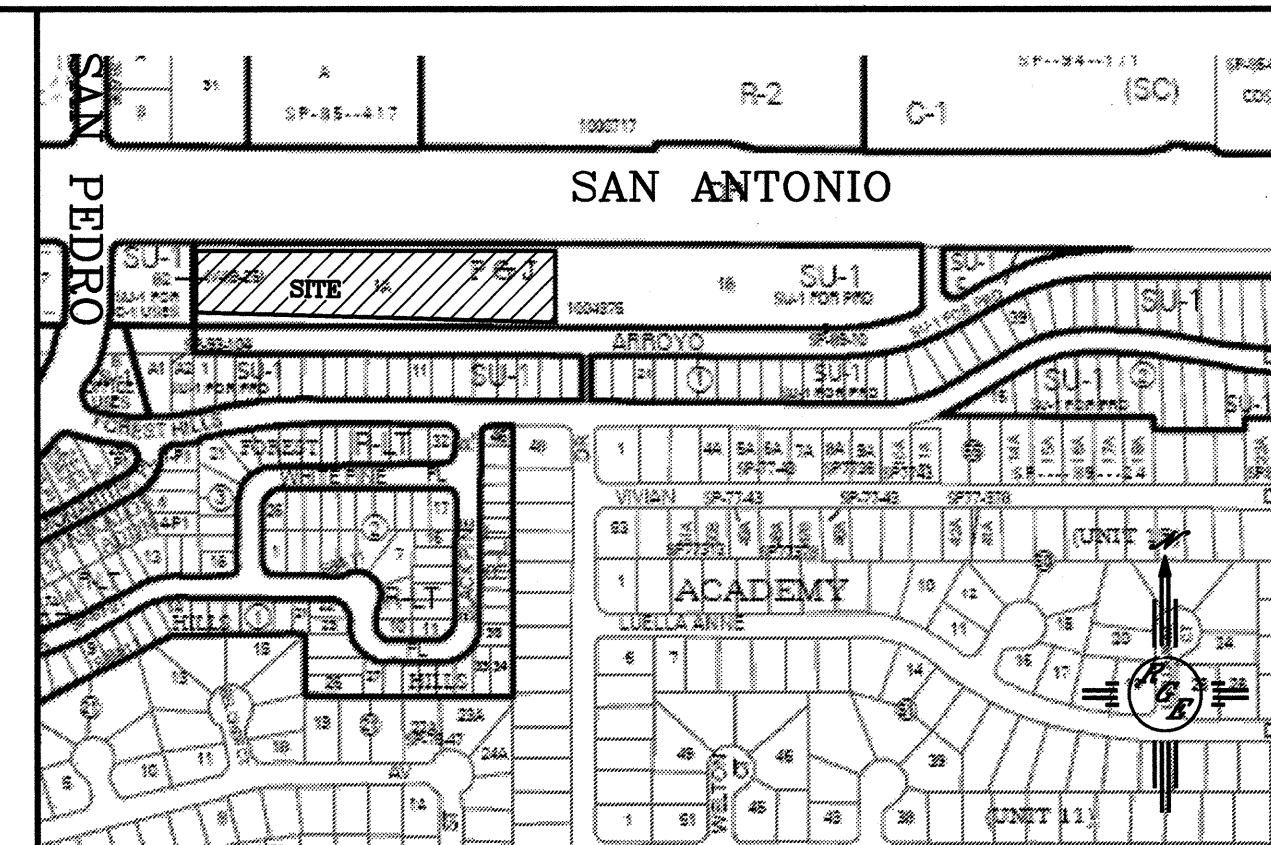
I DAVID SOULE, NMPE 14522, OF THE FIRM RIO GRANDE ENGINEERING, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFRASTRUCTURE INSTALLED AS A PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR A QUALIFIED PERSON UNDER MY DIRECT SUPERVISION AND HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE CITY ENGINEER AND THAT THE ORIGINAL DESIGN INTENT HAS BEEN MET, EXCEPT AS NOTED BY ME OR PERSONNEL UNDER MY DIRECTION AND A SURVEY INFORMATION PROVIDED BY LENORE R ARMJO NMPS 15511.



DRB #-1004375



APPROVED AS RECORD DRAWINGS  
DESIGN REVIEW SECTION  
CITY CONSTRUCTION ENGINEER  
*Anthony J. [Signature]*  
DATE: 7/28/10



VICINITY MAP: E-18-Z

### NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION (UPDATE #7) INCLUDING AMENDMENT #1.
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO(2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE STANDARD SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
7. 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 REPLACING 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. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE DESIGNER'S EXPENSE.
8. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ALL GRAFFITI FROM EQUIPMENT, WHETHER TEMPORARY OR PERMANENT.
9. IF DURING CONSTRUCTION, ANY HUMAN REMAINS ARE EXPOSED OR UNCOVERED CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE CORONER'S OFFICE FOR INVESTIGATION AND REMOVAL.
10. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.
11. WHEN ABUTTING NEW PAVEMENT TO THE EXISTING INTERSECTING STREETS THE EXISTING PAVEMENT SHALL BE SAW CUT PER COA STANDARD DRAWING 2485 TO A STRAIGHT LINE AT RIGHT ANGLES AND ANY BROKEN OR CRACKED PAVEMENT, SHALL BE REMOVED. SAW CUTTING SHALL BE CONSIDERED INCIDENTAL TO PAVING, THEREFORE, NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.

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 SPECIFIED STREET USE.

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINERS STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	APPROVED FOR CONSTRUCTION	
		DRC Chairman		<i>Woodell</i>	2-26-10	<i>R. L. Dink</i> 3-12-10 CITY ENGINEER	
		Transportation		<i>[Signature]</i>	02/12/10		
		Water/Wastewater		<i>[Signature]</i>	2-16-10		
		Hydrology		<i>[Signature]</i>	2-26-10		
		ABCWUA		—	—		
		Constr. Mngmt.		—	—		
		Constr. Coord.		—	—		
		AEHD		<i>[Signature]</i>	2-22-10		
		CITY PROJECT NO.		735185		SHEET	
						1 OF 11	

7351.85 PERMANENT EASEMENT

Grant of Permanent Easement, by Jay M. Parks ("Grantor"), whose address is 6400 San Antonio Dr. NE, to the Albuquerque Bernalillo County Water Utility Authority, a New Mexico political subdivision ("Water Authority"), whose address is P.O. Box 1293, Albuquerque, New Mexico, 87103.

Grantor grants to the Water Authority an exclusive, permanent easement ("Easement") in, over, upon and across the real property described on Exhibit "A" attached hereto ("Property") for the construction, installation, maintenance, repair, modification, replacement and operation of public water and sanitary sewer lines and facilities (collectively "Public Water and Sewer Lines"), together with the right to remove trees, shrubs, undergrowth and any other obstacles upon the Property if the Water Authority determines they interfere with the appropriate use of this Easement.

In the event Grantor constructs or places any improvements or encroachments (collectively "Improvements") within or upon the Property, the Water Authority has the right to enter upon the Property at any time to inspect, install, maintain, repair, modify, replace or remove (collectively "Work") the Public Water and Sewer Lines as the Water Authority deems necessary or appropriate. If the Work affects any Improvements, the Water Authority shall not be financially liable or otherwise responsible for replacing, rebuilding or repairing the Improvements. If, in the opinion of the Water Authority, the Work could endanger the structural integrity or otherwise damage the Improvements, the Grantor shall, at his own expense, take whatever protective measures the Grantor deems necessary or appropriate to safeguard the Improvements.

Grantor covenants and warrants that Grantor is the owner in fee simple of the Property, that Grantor has a good lawful right to convey the Property or any interest therein, and that Grantor will forever warrant and defend the title to the Property against all claims from all persons or entities.

The grant and other provisions of this Easement constitute covenants running with the Property for the benefit of the Water Authority and its successors and assigns until terminated.

GRANTOR Acknowledged:  
Albuquerque Bernalillo County  
By: Jay M. Parks Managing Member Water Utility Authority  
(name) (and title if for a company)  
Date: 2/5/2010 By: [Signature]  
Engineer

Legal Description

A 20' PUBLIC SANITARY SEWER EASEMENT LYING WITHIN TRACT 1-A, P & J SUBDIVISION AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON SEPTEMBER 14, 2005 IN BOOK 2005C, PAGE 303, SAID EASEMENT LYING ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE OF SAID EASEMENT ENDING AT PROPERTY LINE:

BEGINNING AT THE WESTERNMOST END OF SAID CENTERLINE, LYING ON THE NORTH RIGHT OF WAY LINE OF THE PINO ARROYO, FROM WHENCE A TIE TO AGRS MONUMENT "L\_25\_14" BEARS N 58°36'45" E, A DISTANCE OF 3,166.27 FEET;

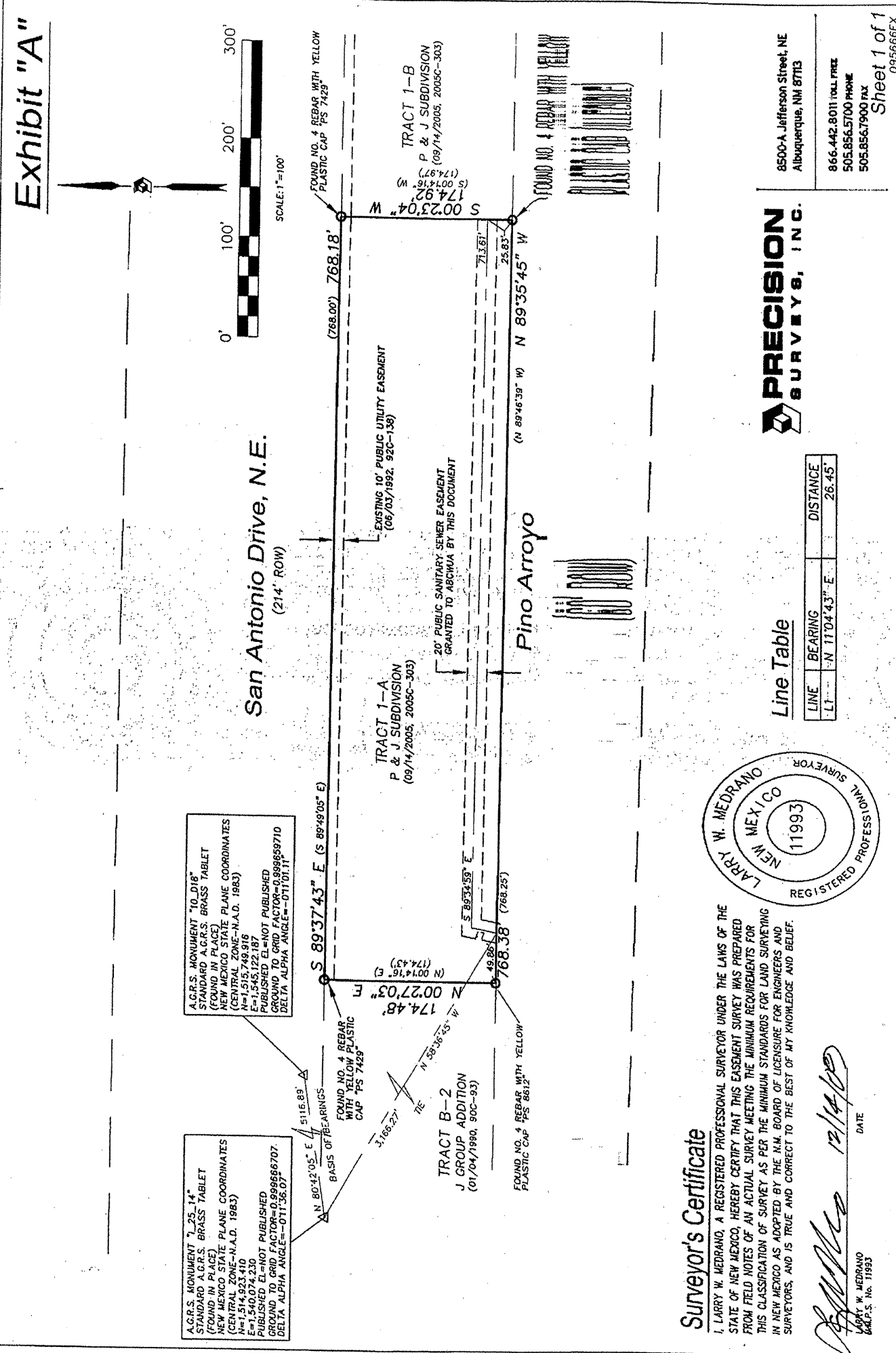
THENCE FROM SAID POINT OF BEGINNING N 11°04'43" E, A DISTANCE OF 26.45 FEET TO AN ANGLE POINT;

THENCE S 89°34'59" E, A DISTANCE OF 713.61 FEET TO THE END OF SAID CENTERLINE OF 20' PUBLIC SANITARY EASEMENT LYING ON THE EAST PROPERTY LINE OF SAID PROPERTY.

Surveyor's Certificate

I, LARRY W. MEDRANO LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS LEGAL DESCRIPTION, EXHIBIT AND EASEMENT SURVEY WAS PREPARED BY ME OR UNDER MY DIRECTION FROM NOTES OF AN ACTUAL FIELD SURVEY, AND THE SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

[Signature] 12/14/09  
LARRY W. MEDRANO  
N.M.P.S. NO. 11993  
DATE  
LARRY W. MEDRANO  
NEW MEXICO  
11993  
REGISTERED PROFESSIONAL SURVEYOR



[corporate acknowledgment]

STATE OF NEW MEXICO )  
COUNTY OF Bernalillo ) ss

This instrument was acknowledged before me on this 5 day of February, by Jay M. Parks (name) Managing Member (title) of Water Utility Authority (company name), a LLC (type of entity), on behalf of said company.

My Commission Expires: 2/1/2011

Notary Public

[acknowledgment for individual]

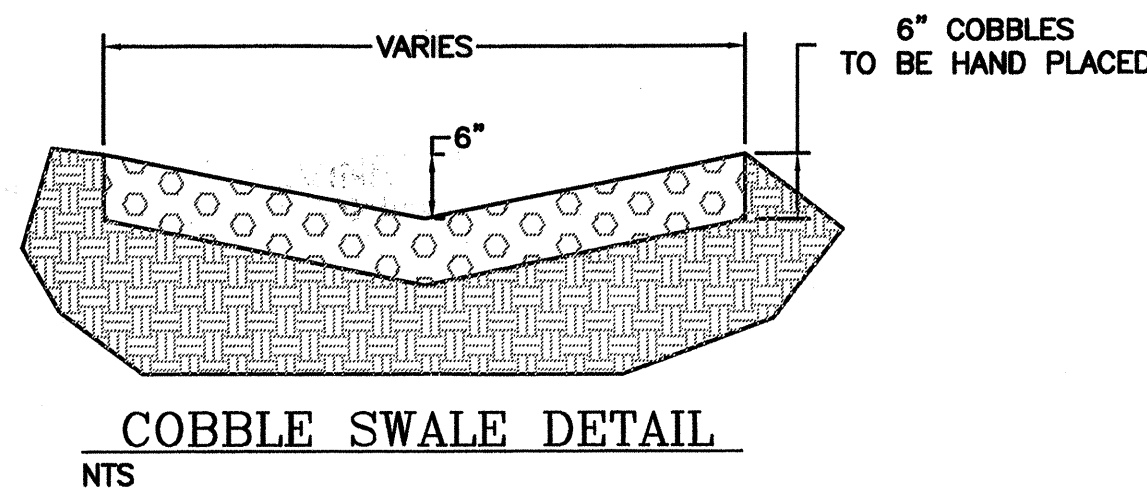
STATE OF NEW MEXICO )  
COUNTY OF \_\_\_\_\_ ) ss

This instrument was acknowledged before me on this \_\_\_\_\_ day of \_\_\_\_\_, by \_\_\_\_\_ (name).

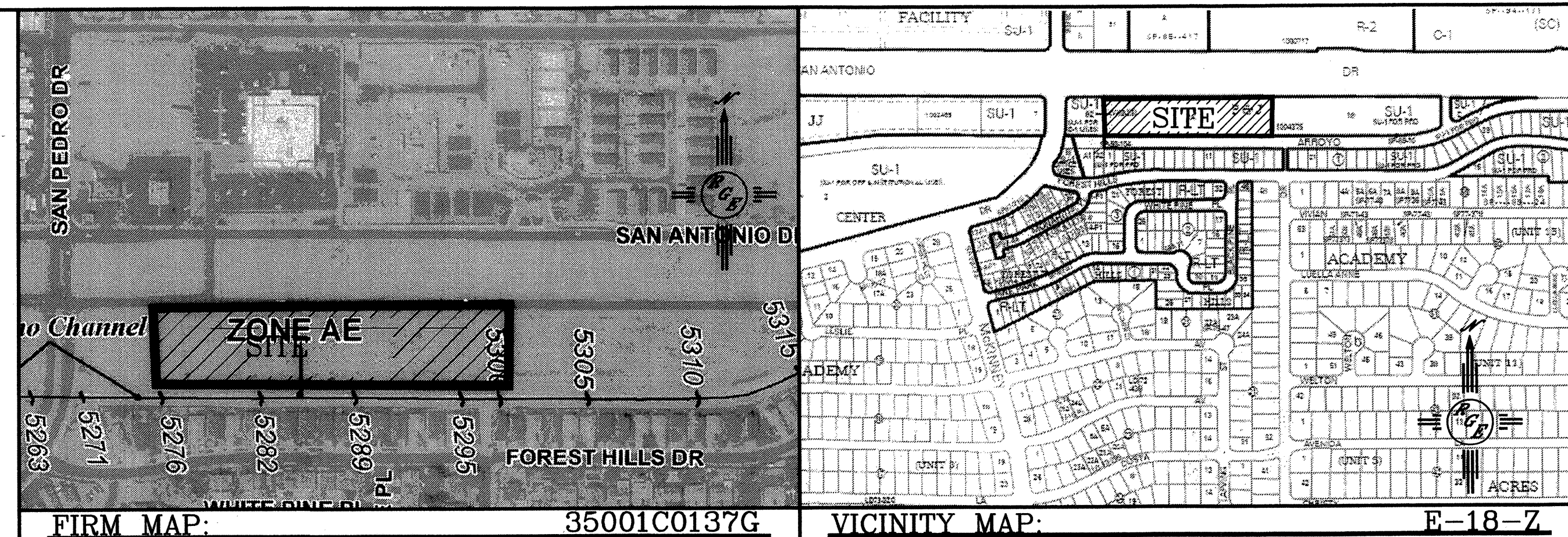
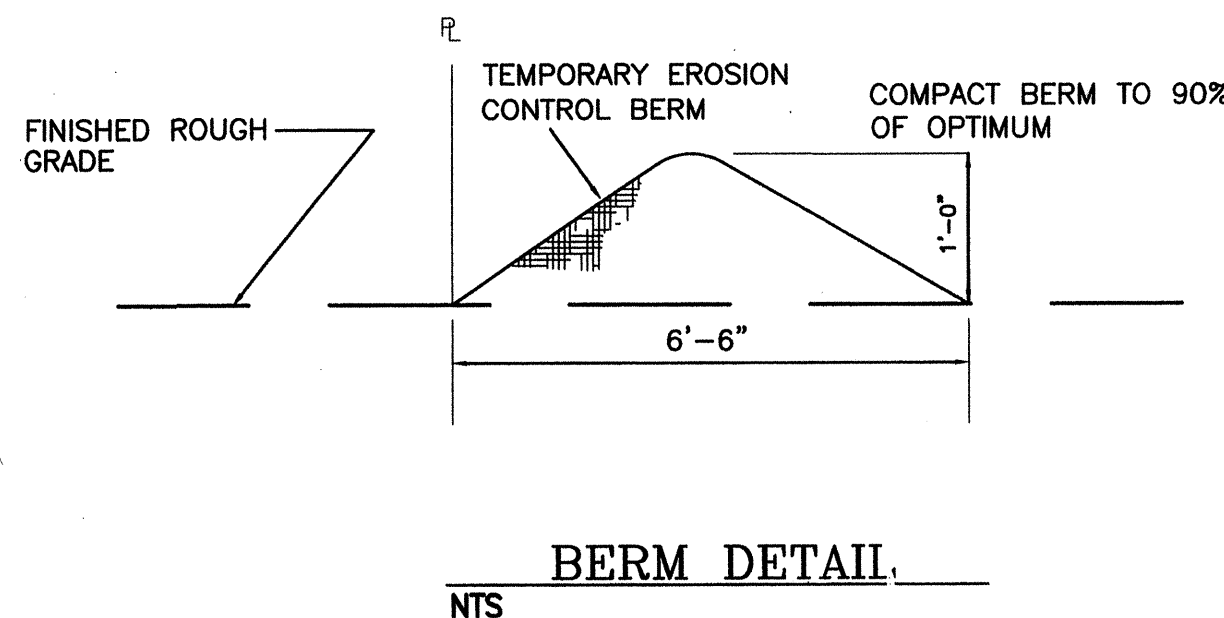
My Commission Expires: \_\_\_\_\_

Notary Public



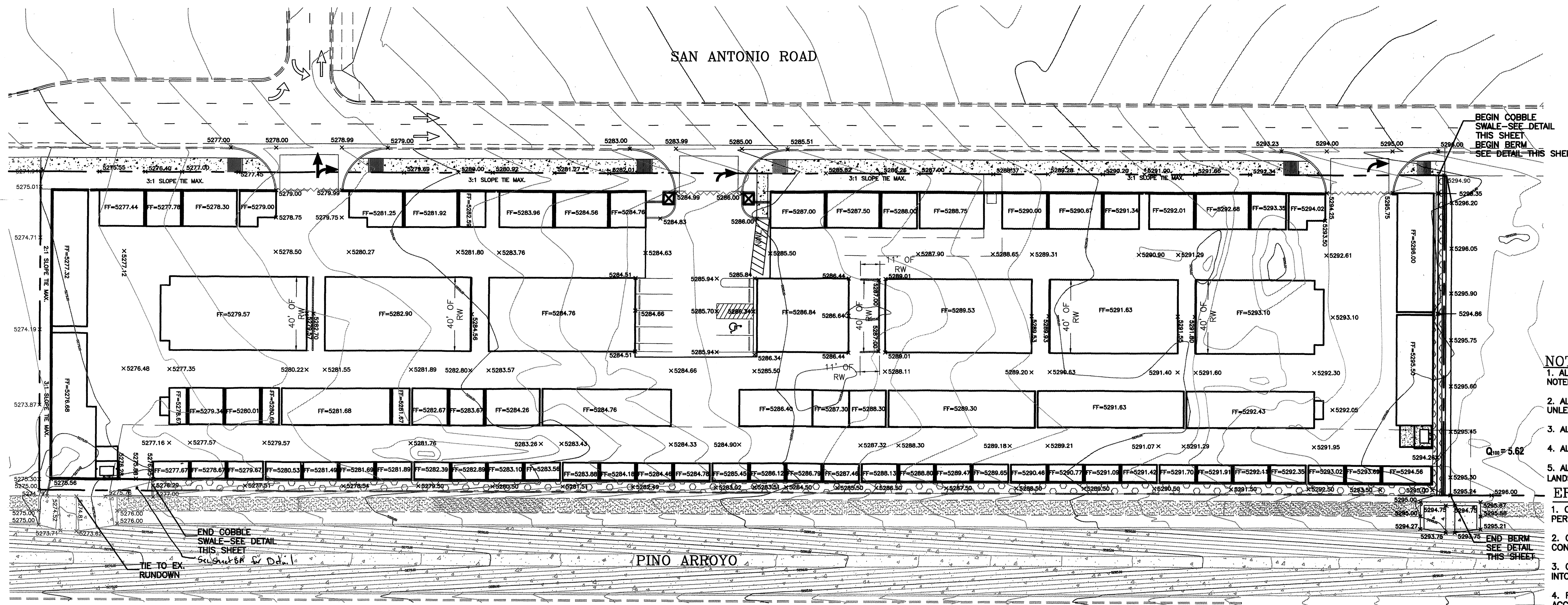


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PLANNING



LEGAL DESCRIPTION:  
LOT 16-A, HOUSES REPLAT KNOB HEIGHTS ADDITION BLOCK 13

Record Drawing



### LEGEND

- ===== EXISTING CURB & GUTTER
- ===== PROPOSED CURB & GUTTER
- BOUNDARY LINE
- ===== PROPOSED SIDEWALK
- ===== PROPOSED PERIMETER WALL
- ===== PROPOSED RETAINING WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- FLOW ARROW
- SLOPE TIE
- 5048.25 PROPOSED SPOT ELEVATION
- 5048.25 EXISTING SPOT ELEVATION
- CENTERLINE
- RIGHT-OF-WAY
- LOT LINES

### NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL CURB AND GUTTER TO BE STANDARD PER COA STD DWG #2415A UNLESS OTHERWISE NOTED.
3. ALL DRIVEWAYS ENTRANCES SHALL BE PER COA STD DWG #2425.
4. ALL VALLEY GUTTERS SHALL BE COA STD DWG #2420.
5. ALL AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE TREATED W/ LANDSCAPING TO ARMOUR AGAINST EROSION. 6" COBBLES MINIMUM.

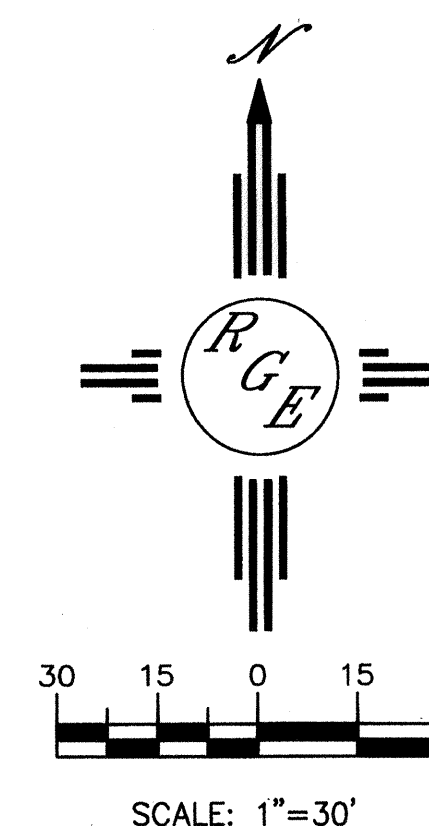
### EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

FOR INFORMATION ONLY

### CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



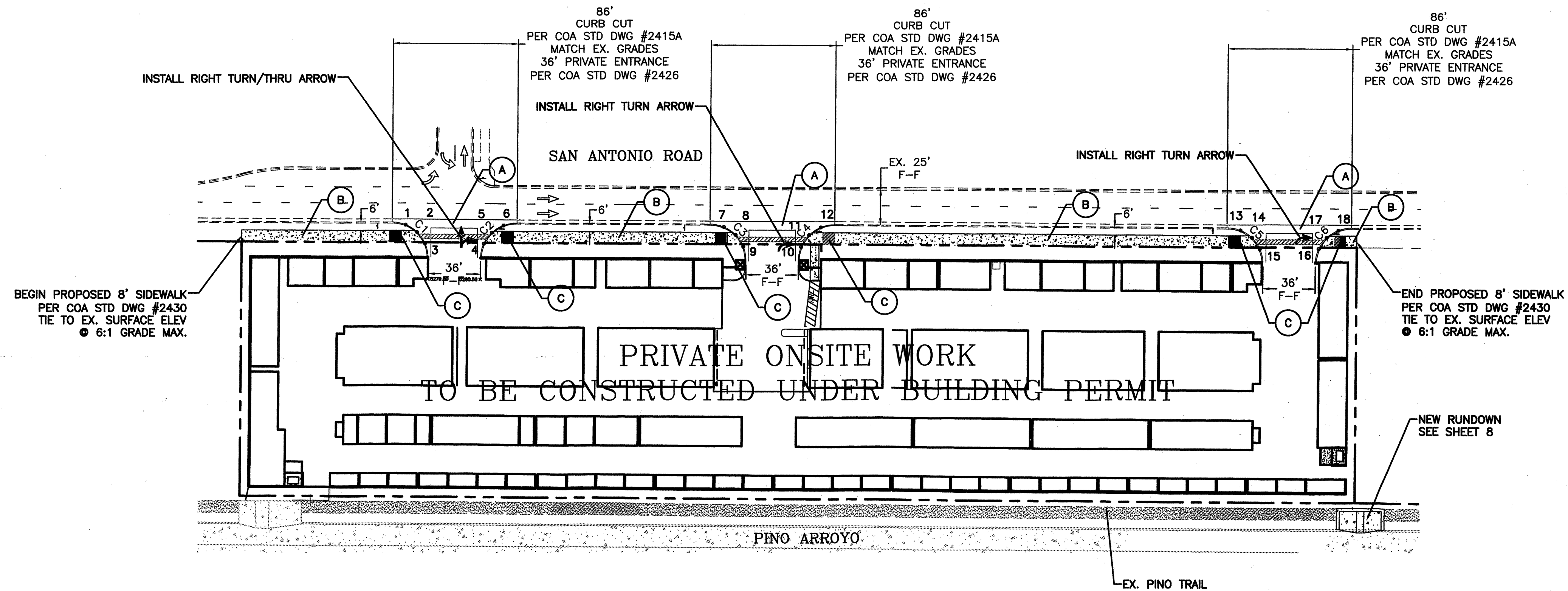
ROUGH GRADING APPROVAL

DATE

<p>ENGINEER'S SEAL</p> <p>DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522</p> <p>DAVID SOULE P.E. #14522</p>	<p>SAN ANTONIO SELF STORAGE</p> <p>GRADING AND DRAINAGE PLAN</p> <p><i>Rio Grande Engineering</i></p> <p>1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999</p>	<p>DRAWN BY WCWJ</p> <p>DATE 8-20-09</p> <p>2015-LAYOUT-8-17-09</p> <p>SHEET # 3 of 8</p> <p>JOB # 2915</p>
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C DN 735185 sheet 3 of 11





**LEGEND**

=====	EXISTING CURB & GUTTER
=====	PROPOSED CURB & GUTTER
=====	FUTURE CURB & GUTTER
-----	BOUNDARY LINE
-----	PROPOSED SIDEWALK
-----	CENTERLINE
-----	RIGHT-OF-WAY
=====	CONTRACTOR SHALL PROVIDE A 2% CROSS SLOPE MAX. AT A 3' WIDTH

- KEYED NOTE:**
- (A) 6' VALLEY GUTTER PER C.O.A. STD DWG #2420
  - (B) 8' SIDEWALK TO BE BUILT W/THIS PROJECT  
PER COA STD DWG #2430
  - (C) UNI-DIRECTIONAL HANDICAP RAMP  
PER COA STD DWG #2426  
W/TRUNCATED DOMES-SEE DETAIL THIS SHEET

**QUARTER POINTS**

C1	FL	ELEV.	C2	FL	ELEV.	
1	5277.49	5277.49	4	5279.72	5280.50	
2	5277.98	78.02	5	5279.40	5279.27	
3	5278.47	71.28	6	5279.24	5279.52	
C3	FL	ELEV.	C4	FL	ELEV.	
7	5285.48	83.11	10	5285.81	85.47	
8	5285.96	83.07	11	5285.74	85.25	
9	5284.44	84.57	12	5285.64	85.70	
C5	FL	ELEV.	C6	FL	ELEV.	
13	5293.66	73.86	16	5295.96	95.80	
14	5294.09	74.85	17	5295.98	95.73	
15	5294.52	74.86	18	5296.00	96.11	

**CURVE TABLE**

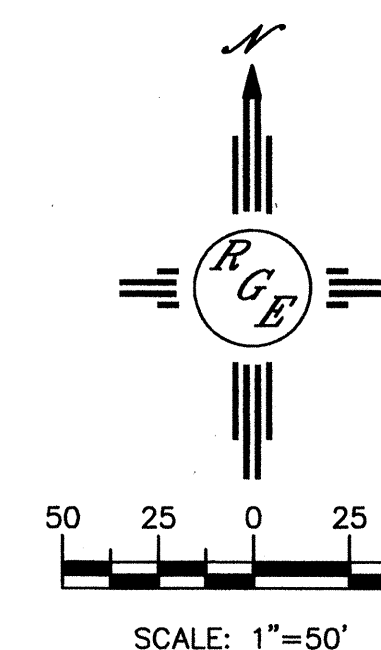
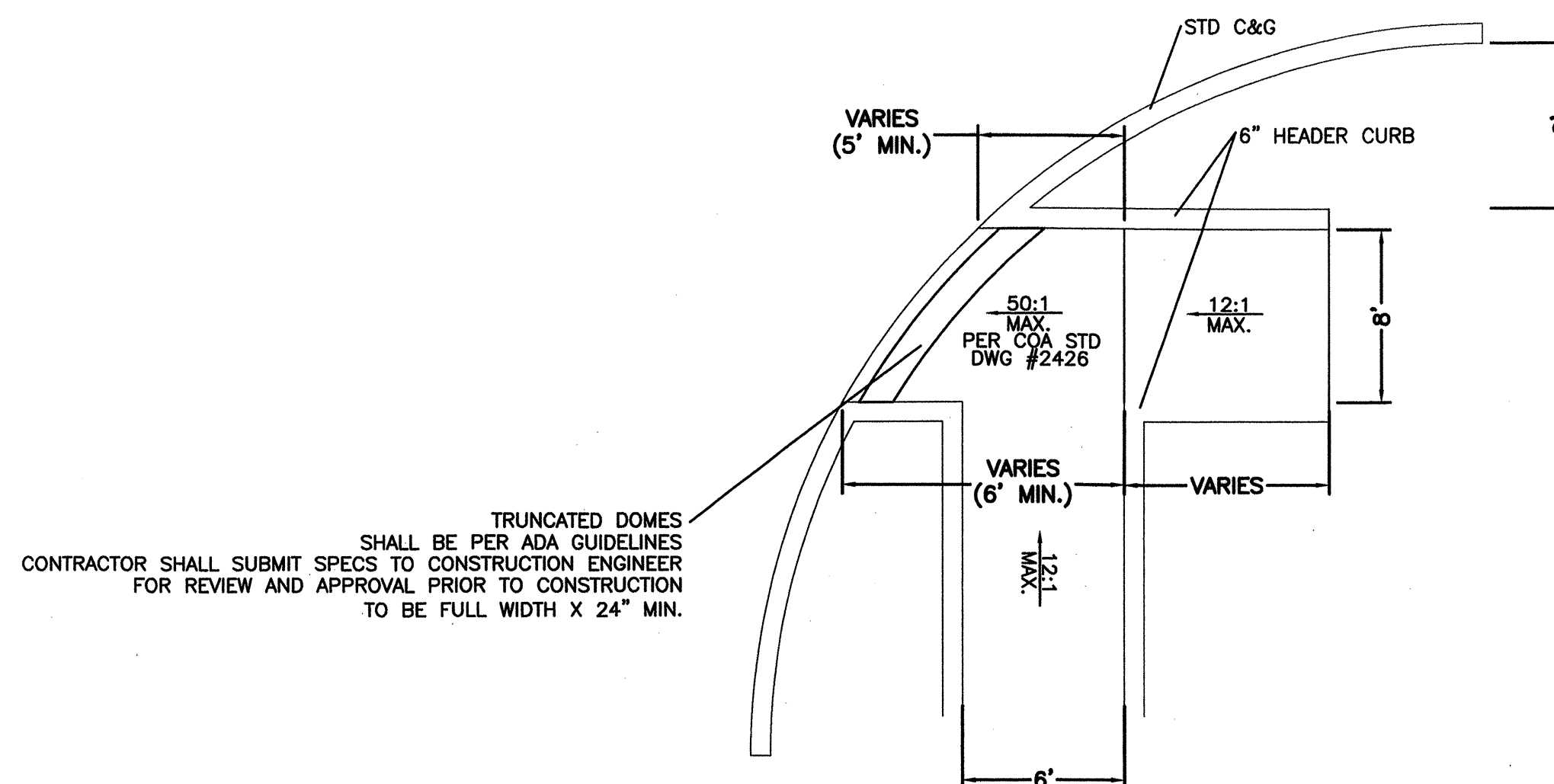
CURVE	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD
C1	38.13	25.00	87°23'27"	N45°58'02"W	34.54
C2	38.13	25.00	87°22'50"	S46°40'20"W	34.54
C3	39.24	25.00	89°55'13"	N44°35'59"W	35.33
C4	39.30	25.00	90°04'29"	S45°23'54"W	35.38
C5	37.85	25.00	86°43'23"	N46°13'47"W	34.33
C6	37.67	25.00	86°03'26"	S47°16'17"W	34.23

**GENERAL NOTES:**

- ALL WALL FOUNDATIONS/TOE MUST BE OUTSIDE COA ROW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL ROADWAY CONSTRUCTION SIGNS UNTIL FINAL ACCEPTANCE BY THE CITY OF ALBUQUERQUE.
- ALL PERMANENT SIGNAGE SHALL REMAIN IN PLACE, EXCEPT SIGNAGE THAT FALLS WITHIN NEW ENTRANCE AREAS. SAID SIGNAGE SHALL BE RELOCATED OUTSIDE OF ENTRANCE LIMITS AND APPROVED BY THE COA.

**RECORD DRAWINGS**

**UNI-DIRECTIONAL WHEELCHAIR RAMP DETAIL (TYP.)**



**Rio Grande Engineering**  
1008 CENTRAL AVENUE SE  
SUITE 201  
ALBUQUERQUE, NM 87108  
(505) 872-0888

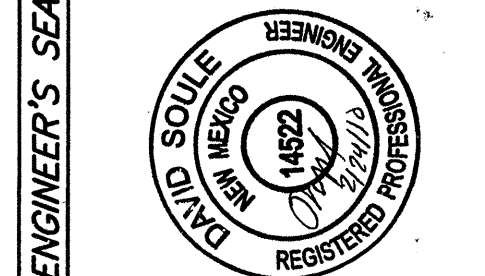
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

**TITLE: SAN ANTONIO STORAGE MASTER PAVING PLAN**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED FEB 26 2010 DESIGN REVIEW COMMITTEE	APPROVED MAR 12 2010 CITY ENGINEER		
CITY PROJECT NO. 735185	ZONE MAP NO. E-18-Z	SHEET 4	OF 11

DESIGNED BY: WCUJ  
DRAWN BY: WCUJ  
DRAWN NAME: 2915-LAYOUT-8-17-09.DWG  
CHECKED BY: DS

DATE: 8-31-09  
DATE: 8-31-09  
JOB NO: 2915  
DATE: 8-31-09



**ENGINEER'S SEAL**

NO.	DATE	REMARKS

**SURVEY INFORMATION**

FIELD NOTES	DATE	BY

**AS BUILT INFORMATION**

CONTRACTOR	DATE	BY



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 4: PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO 1/8 PIPE DIAMETER, 4" MINIMUM; BACKFILL COMPACTED 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	5'	4'	3'	2'	1'	0'	
12x12x12	6	12	17	22	27	33	
12x12x10	1	3	9	15	21	28	
12x12x8	1	1	1	8	16	23	
12x12x6	1	1	1	1	7	18	
12x12x4	1	1	1	1	1	12	
10x10x10	2	7	12	17	22	28	
10x10x8	1	1	4	10	17	23	
10x10x6	1	1	1	1	9	18	
10x10x4	1	1	1	1	1	12	
8x8x8	1	3	8	13	18	23	
8x8x6	1	1	1	4	11	18	
8x8x4	1	1	1	1	3	12	
6x6x6	1	1	2	8	13	18	
8x8x4	1	1	1	1	5	12	

\*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.

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 4: PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO 1/8 PIPE DIAMETER, 4" MINIMUM; BACKFILL COMPACTED 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 VERTICAL OFFSETS/BENDS (EACH SIDE)					
SIZE	90°	45°	22-1/2°	11-1/4°	
12 UPPER	DON'T USE	14	7	3	
12 LOWER	DON'T USE	3	1	1	
10 UPPER	DON'T USE	12	6	3	
10 LOWER	DON'T USE	2	1	1	
8 UPPER	DON'T USE	10	5	2	
8 LOWER	DON'T USE	2	1	N/A	
6 UPPER	DON'T USE	8	4	2	
6 LOWER	DON'T USE	1	1	N/A	
4 UPPER	DON'T USE	5	3	1	
4 LOWER	DON'T USE	1	N/A	N/A	

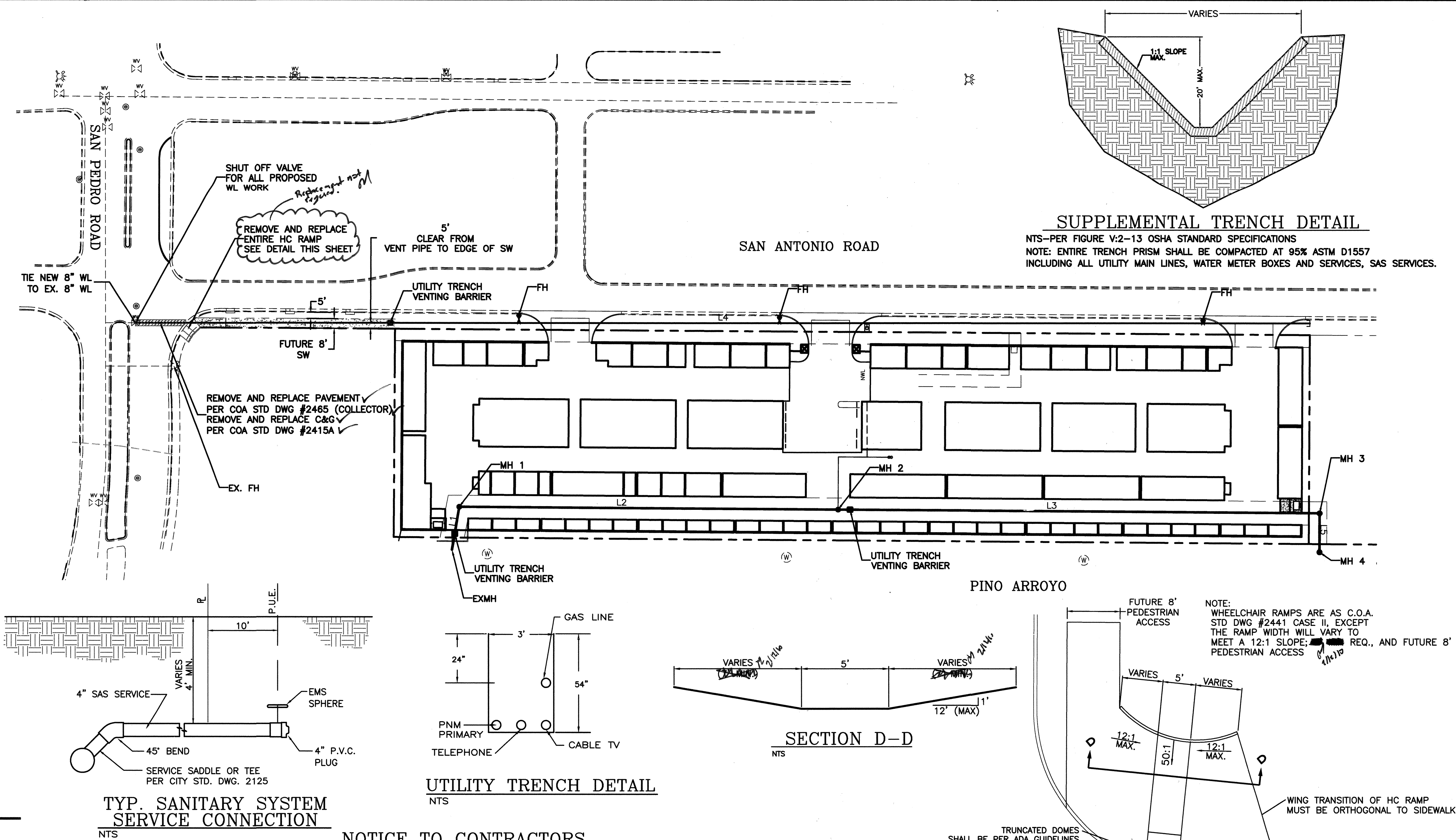
RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)					
SIZE	90°	45°	22-1/2°	11-1/4°	VALVES DEAD END
12	12	5	2	1	34
10	10	4	2	1	29
8	9	4	2	1	24
6	7	3	1	1	18
4	5	2	1	N/A	13

#### WATER SHUTOFF NOTES:

- ONLY ABCWUA PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
- NOTIFY ABCWUA, 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 PLAN VIEW.

#### LEGEND

- EX. 12" SD — EXISTING STORM SEWER LINE
- EX. 6" WL — EXISTING WATER LINE
- EX. 6" WL — EXISTING SANITARY SEWER LINE
- EX. 6" WL — EXISTING VALVE W/BOX
- EX. 6" WL — EXISTING WATER LINE
- EX. 6" WL — PROPOSED METER
- EX. 6" WL — PROPOSED FIRE HYDRANT
- EX. 6" WL — EXISTING EDGE OF PAVEMENT
- EX. 6" WL — PROPOSED CURB & GUTTER
- EX. 6" WL — BOUNDARY LINE
- EX. 6" WL — CENTERLINE
- EX. 6" WL — RIGHT-OF-WAY
- EX. 6" WL — LOT LINES
- EX. 6" WL — STREET LIGHTS



#### SUPPLEMENTAL TRENCH DETAIL

NTS—PER FIGURE V-2-13 OSHA STANDARD SPECIFICATIONS  
NOTE: ENTIRE TRENCH PRISM SHALL BE COMPACTED AT 95% ASTM D1557 INCLUDING ALL UTILITY MAIN LINES, WATER METER BOXES AND SERVICES, SAS SERVICES.

#### UTILITY TRENCH DETAIL

NTS

#### SECTION D-D

NTS

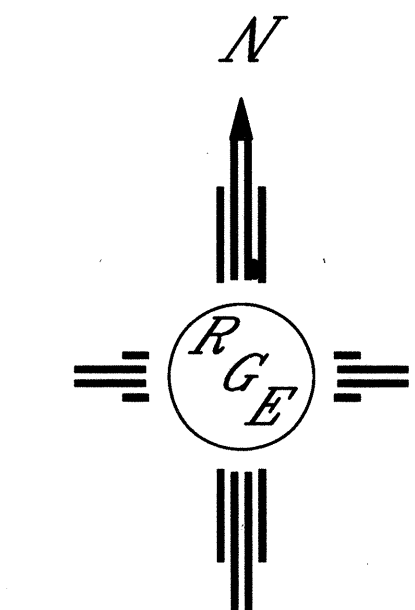
#### WHEELCHAIR RAMP DETAIL (TYP.)

NTS

#### NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN COA ROW. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 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, 1986, INCLUDING UPDATES 1 THROUGH 7, AND AMENDMENT #1.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES, AND/OR OBSTRUCTIONS. 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 ARTERIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
- CONTRACTOR SHALL DETERMINE LOCATION OF ANY UNDERGROUND FACILITY IN OR NEAR WORK AREAS, INCLUDING REQUESTS TO OWNERS/OPERATORS OF SAID FACILITIES PER SECTION 62-14-5 NMSA 1978.
- CONTRACTOR SHALL PLAN ALL EXCAVATION TO MINIMIZE INTERFERENCE OR DAMAGE OF UNDERGROUND FACILITIES.
- CONTRACTOR SHALL PROVIDE ADVANCE TELEPHONE NOTICE OF COMMENCEMENT, EXTENT AND DURATION OF ALL EXCAVATION WORK TO THE ONE-CALL NOTIFICATION SYSTEM, OR TO OWNERS/OPERATORS OF ANY EXISTING UNDERGROUND FACILITY IN OR NEAR THE EXCAVATION AREA THAT ARE NOT MEMBERS OF THE ONE-CALL NOTIFICATION CENTER; IN ORDER THAT OWNERS/OPERATORS MAY LOCATE AND MARK UNDERGROUND FACILITY PER SECTION 62-14-5 NMSA 1978 PRIOR TO ANY COMMENCEMENT OF WORK. CONTRACTOR SHALL REQUEST REAFFIRMATION OF LOCATION EVERY TEN (10) WORKING DAYS AFTER INITIAL REQUEST.

- CONTRACTOR SHALL MAINTAIN EIGHTEEN (18) INCHES BETWEEN EXISTING UNDERGROUND FACILITIES THAT HAVE BEEN PREVIOUSLY IDENTIFIED AND MARKED BY THE OWNERS/OPERATORS OF SAID FACILITIES. CUTTING EDGE OR POINT OF ANY MECHANICAL EXCAVATING EQUIPMENT UTILIZED IN EXCAVATION AREA WILL BE USED IN A MANNER NECESSARY TO PREVENT DAMAGE TO EXISTING UNDERGROUND FACILITIES.
- CONTRACTOR SHALL PROVIDE SUPPORT FOR EXISTING UNDERGROUND FACILITIES IN OR NEAR EXCAVATION AREA AS NECESSARY TO PREVENT DAMAGE TO SAID FACILITIES.
- CONTRACTOR SHALL BACKFILL ALL EXCAVATIONS IN A MANNER AND WITH MATERIALS AS MAY BE NECESSARY TO PREVENT DAMAGE TO AND PROVIDE RELIABLE SUPPORT DURING AND FOLLOWING BACK FILLING ACTIVITIES FOR PREEXISTING UNDERGROUND FACILITIES IN OR NEAR EXCAVATION AREA.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY BY TELEPHONE THE OWNER/OPERATOR OF ANY UNDERGROUND FACILITY WHICH MAY HAVE BEEN DAMAGED OR DISLODGED DURING EXCAVATION WORK.
- CONTRACTOR SHALL NOT MOVE OR OBLITERATE MARKINGS MADE PURSUANT TO CHAPTER 62, ARTICLE 14 NMSA 1978, OR FABRICATE MARKINGS IN A UNMARKED LOCATION FOR THE PURPOSE OF CONCEALING OR AVOIDING LIABILITY FOR VIOLATION OF OR NONCOMPLIANCE WITH THE PROVISIONS OF CHAPTER 62, ARTICLE 11 NMSA 1978.
- ELECTRONIC MAKER SPHERES (EMS) SHALL BE INSTALLED ON WATER LINE AND SANITARY SEWER LINE FACILITIES PER SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS 1986 EDITION AS REVISED THROUGH UPDATE #7.
- THE ABCWUA WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES, REFER TO SECTION 18 OF THE STANDARD SPECIFICATIONS. ONLY WATER AUTHORITY CREWS MAY OPERATE PUBLIC VALVES.
- ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.6150 SUBPART P.
- ALL IMPACTED STRIPING SHALL BE REPLACED BY CONTRACTOR.
- MANHOLE STEPS SHALL NOT BE INSTALLED IN SANITARY SEWER MANHOLES.
- ALL WATER METERS SHALL INCLUDE DUAL CHECK VALVE SETTERS.
- ALL WATER METER COVERS AND LIDS SHALL BE PER COA STD DWG #2369.
- ALL C-900 UTILITY PIPE JOINTS SHALL BE FULLY RESTRAINED DUE TO POSSIBLE DEFLECTION FROM WASTE DEGENERATION.



#### GRAPHIC SCALE

50 25 0 25 50  
SCALE: 1"=50'

#### RECORD DRAWINGS

 1000 CENTRAL AVENUE ALBUQUERQUE, NM 87104 (505) 875-2000		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: <b>SAN ANTONIO STORAGE MASTER UTILITY PLAN</b>			
DESIGN REVIEW COMMITTEE	APPROVED	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 735185	APPROVED		
ZONE MAP NO. E-18-Z	CITY ENGINEER	SHEET 5	OF 11

AS BUILT INFORMATION			
Contractor	DATE	DATE	DATE
Contractor	DATE	DATE	DATE
Contractor	DATE	DATE	DATE
Contractor	DATE	DATE	DATE

BENCH MARKS			
ACR MONUMENT 1-25-11	DATE	DATE	DATE
ACR MONUMENT 1-25-11	DATE	DATE	DATE
ACR MONUMENT 1-25-11	DATE	DATE	DATE
ACR MONUMENT 1-25-11	DATE	DATE	DATE

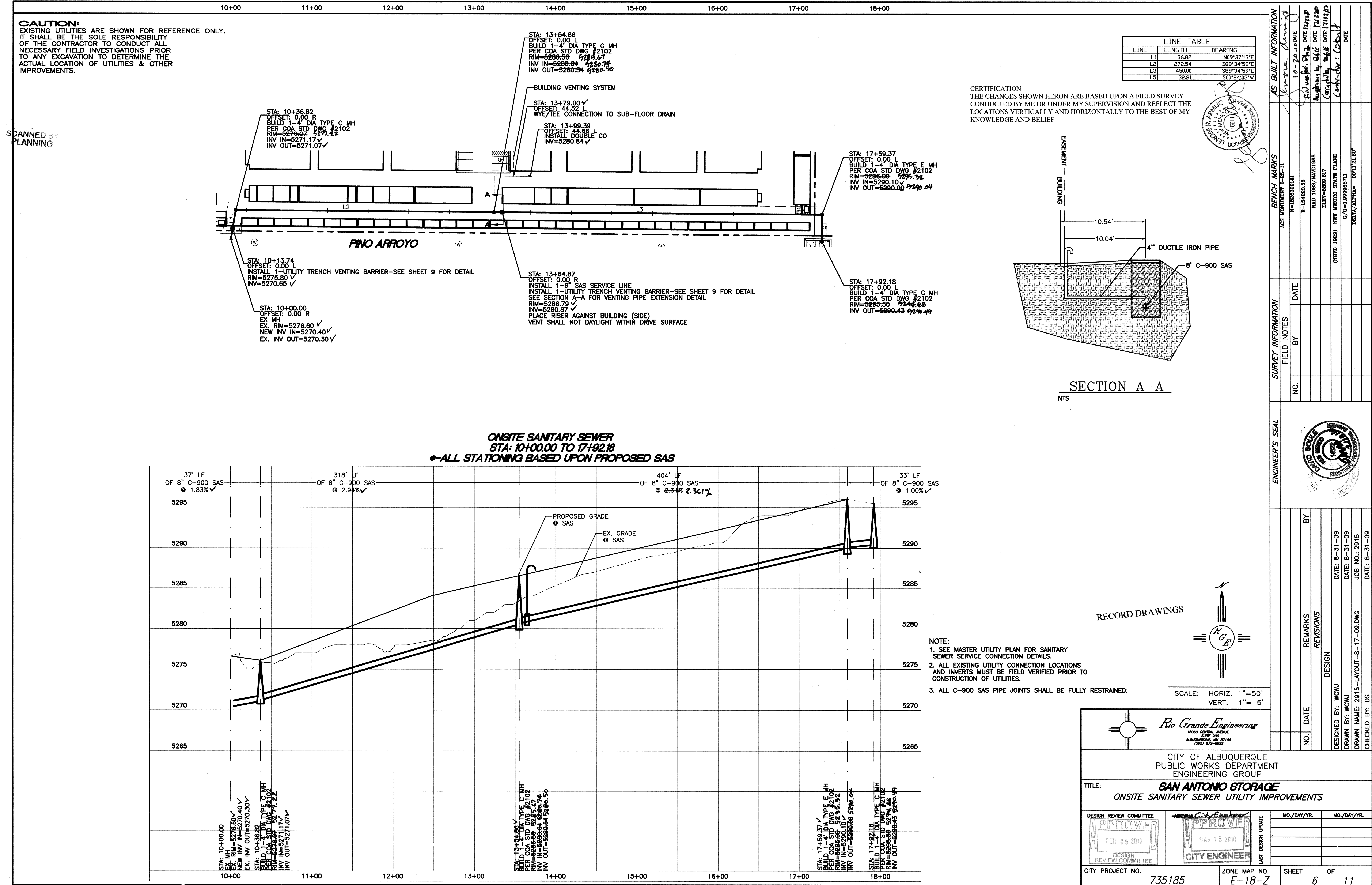
SURVEY INFORMATION			
BY	DATE	DATE	DATE
BY	DATE	DATE	DATE
BY	DATE	DATE	DATE
BY	DATE	DATE	DATE

ENGINEER'S SEAL			
BY	DATE	DATE	DATE
BY	DATE	DATE	DATE
BY	DATE	DATE	DATE
BY	DATE	DATE	DATE

REVISIONS			
NO.	DATE	REMARKS	DESIGN
NO.	DATE	REMARKS	DESIGN
NO.	DATE	REMARKS	DESIGN
NO.	DATE	REMARKS	DESIGN

DESIGN REVIEW COMMITTEE			
DESIGNED BY: WCVJ	DATE: 8-31-09	DATE: 8-31-09	DATE: 8-31-09
DRAWN BY: WCVJ	DATE: 8-31-09	DATE: 8-31-09	DATE: 8-31-09
DRAWN NAME: 2915-LAYOUT-8-17-08.DWG	DATE: 8-31-09	DATE: 8-31-09	DATE: 8-31-09
CHECKED BY: DS	DATE: 8-31-09	DATE: 8-31-09	DATE: 8-31-09







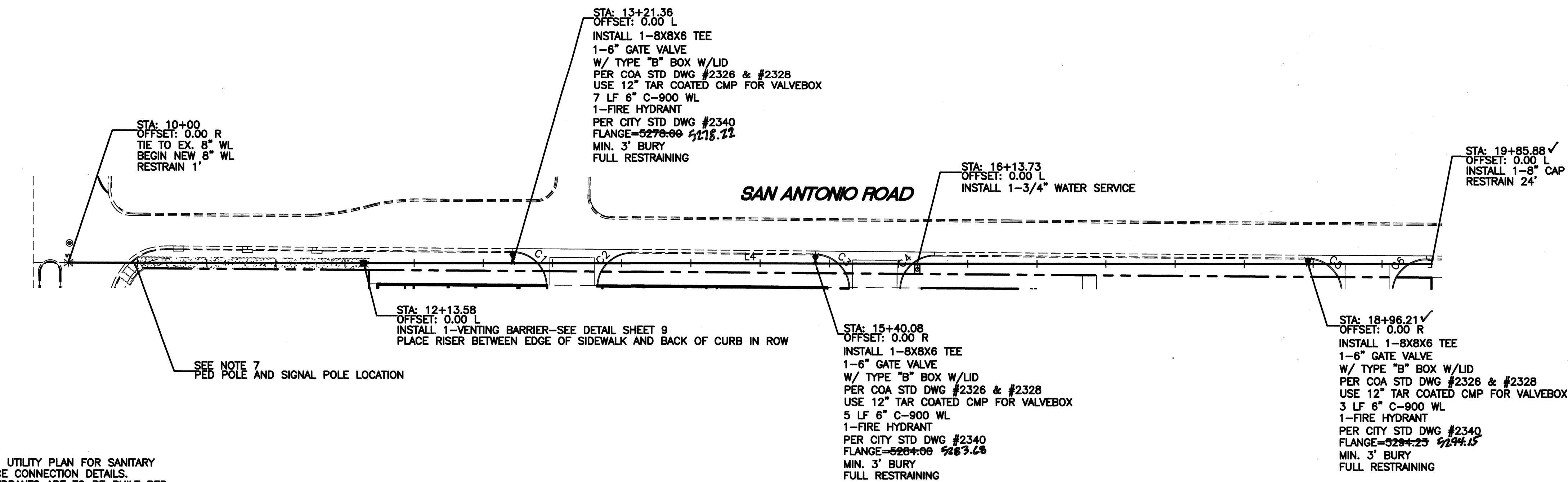
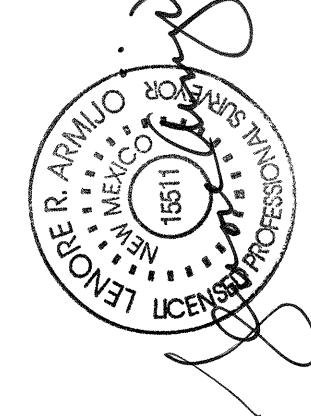
10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00

**CAUTION:**  
EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY.  
IT SHALL BE THE SOLE RESPONSIBILITY  
OF THE CONTRACTOR TO CONDUCT ALL  
NECESSARY FIELD INVESTIGATIONS PRIOR  
TO ANY EXCAVATION TO DETERMINE THE  
ACTUAL LOCATION OF UTILITIES & OTHER  
IMPROVEMENTS.

SCANNED BY  
PLANNING

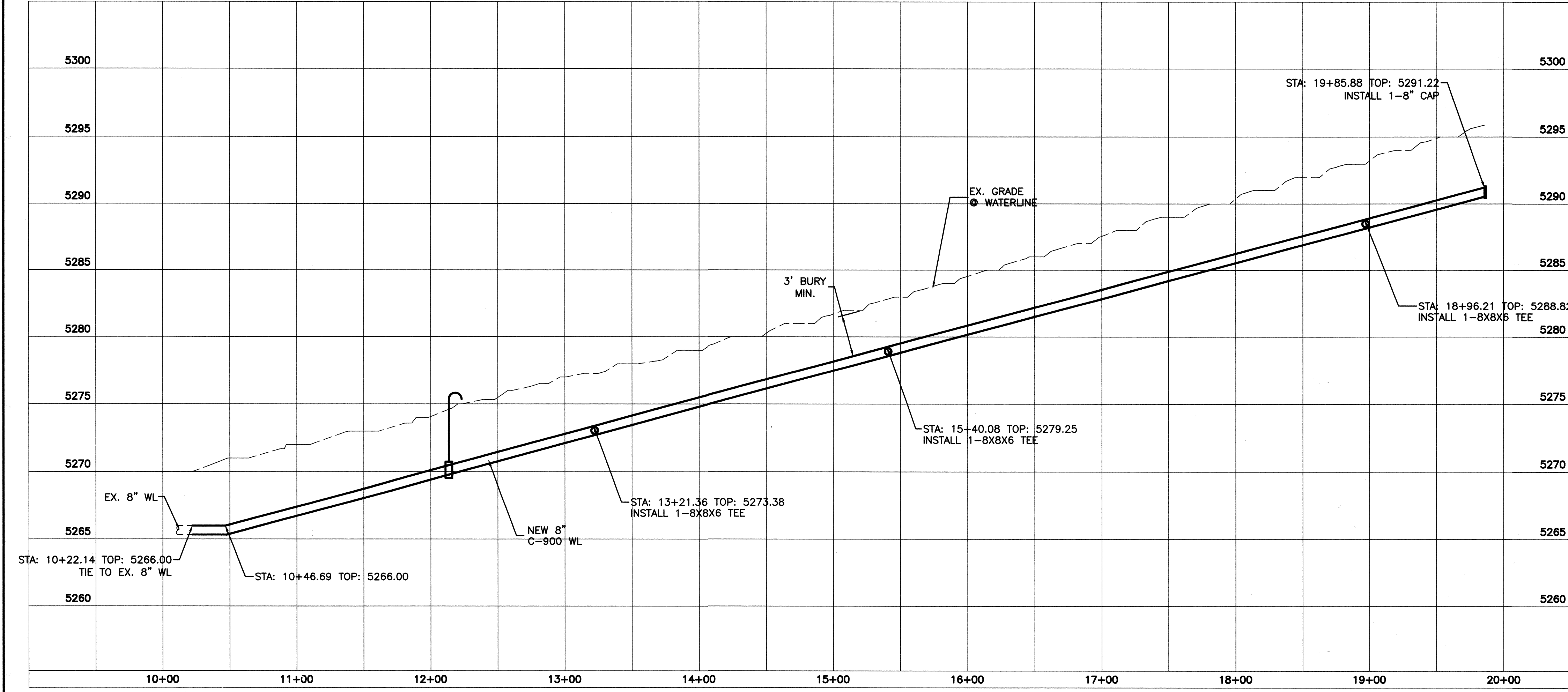
LINE TABLE		
LINE	LENGTH	BEARING
L4	985.88	S90°00'00"E

CERTIFICATION  
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY  
CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE  
LOCATIONS VERTICALLY AND HORIZONTALLY TO THE BEST OF MY  
KNOWLEDGE AND BELIEF

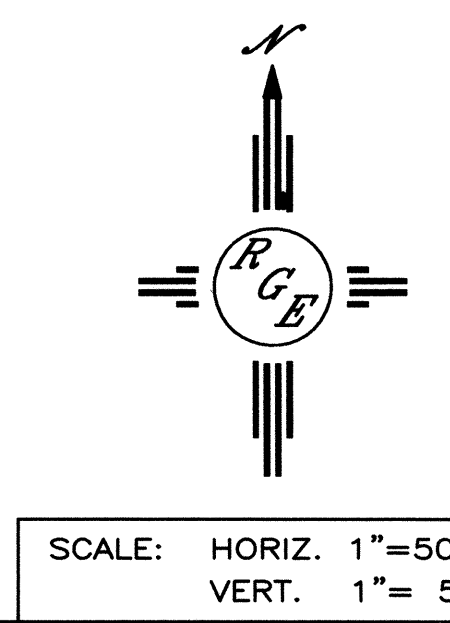


- NOTE:
1. SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
  2. ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340 FULLY RESTRAINED
  3. ALL EXISTING UTILITY CONNECTION LOCATIONS AND INVERTS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION OF UTILITIES.
  4. WATER VALVES SHALL BE PER COA STD DWG #2326, 2328, 2461.
  5. ALL WATER SERVICES SHALL BE PER COA STD DWG #2361, 2362, 2366, 2368.
  6. ALL C-900 WL JOINTS SHALL BE FULLY RESTRAINED.
  7. ALL WORK PERFORMED AROUND PED POLE AND SIGNAL POLE SHALL BE HAND DUG AND ANY POTENTIAL CONFLICTS SHALL BE DETERMINED AND RESOLVED IN COORDINATION WITH ENGINEER PRIOR TO ANY STREET CUTS.

**SAN ANTONIO WATERLINE**  
**STA: 10+00.00 TO 19+85.88**  
**•ALL STATIONING BASED UPON PROPOSED WATERLINE**



RECORD DRAWINGS

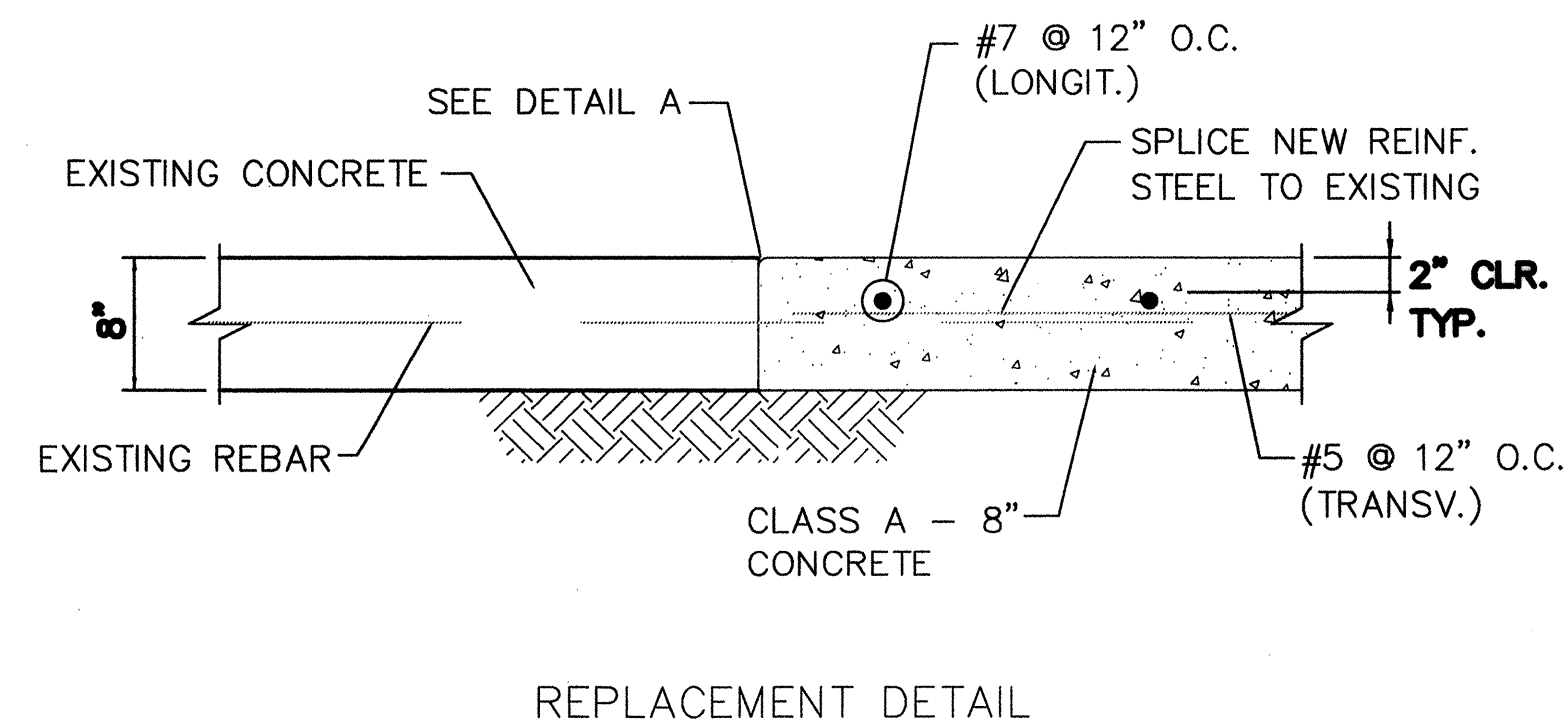
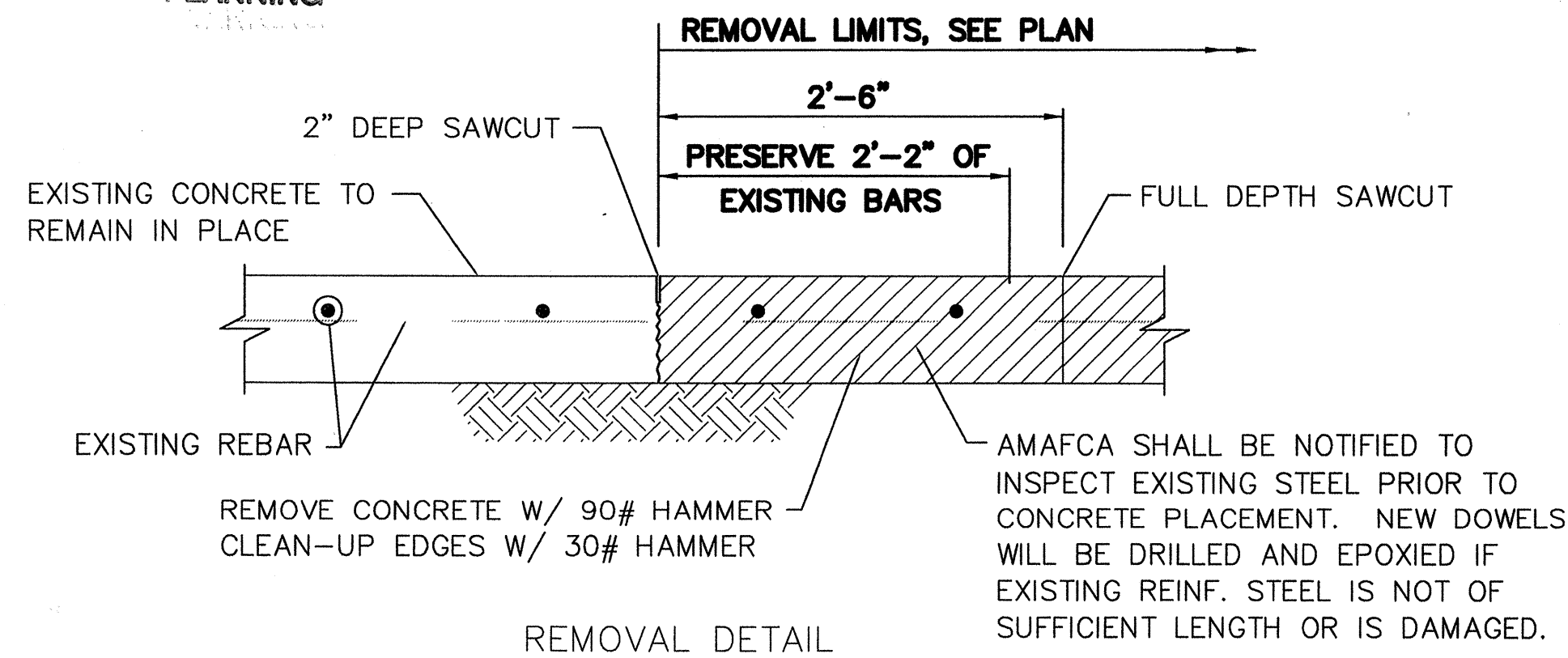


CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: <b>SAN ANTONIO STORAGE</b> <b>SAN ANTONIO WATERLINE UTILITY IMPROVEMENTS</b>	
DESIGN REVIEW COMMITTEE 	APPROVED 
CITY PROJECT NO. 735185	ZONE MAP NO. E-18-Z
MO./DAY/YR.	MO./DAY/YR.
DESIGNED BY: WCVJ	DATE: 8-31-09
DRAWN BY: WCVJ	DATE: 8-31-09
DRAWN NAME: 2915-LAYOUT-8-17-09.DWG	JOB NO.: 2915
CHECKED BY: DS	DATE: 8-31-09









# GENERAL NOTES:

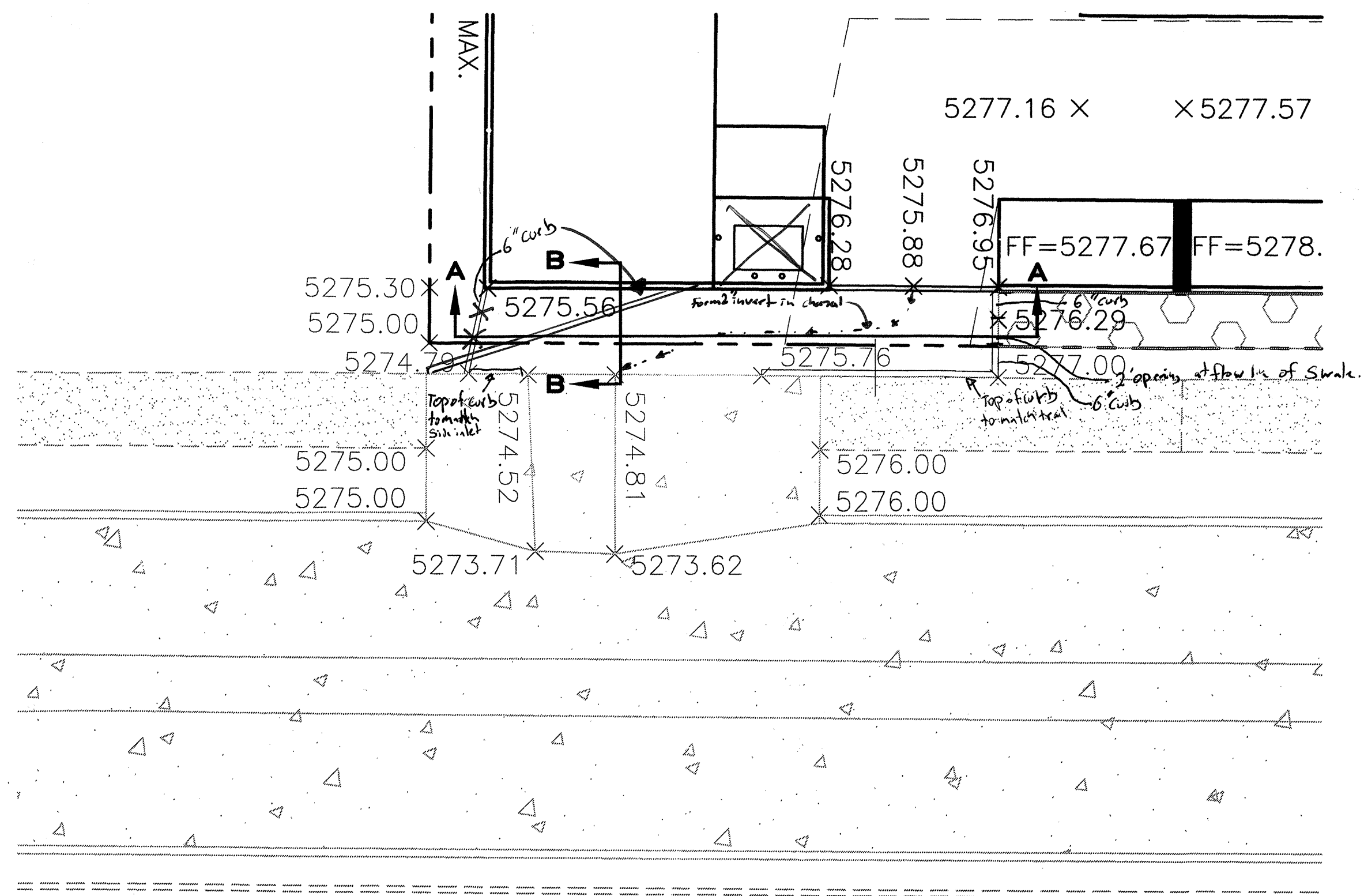
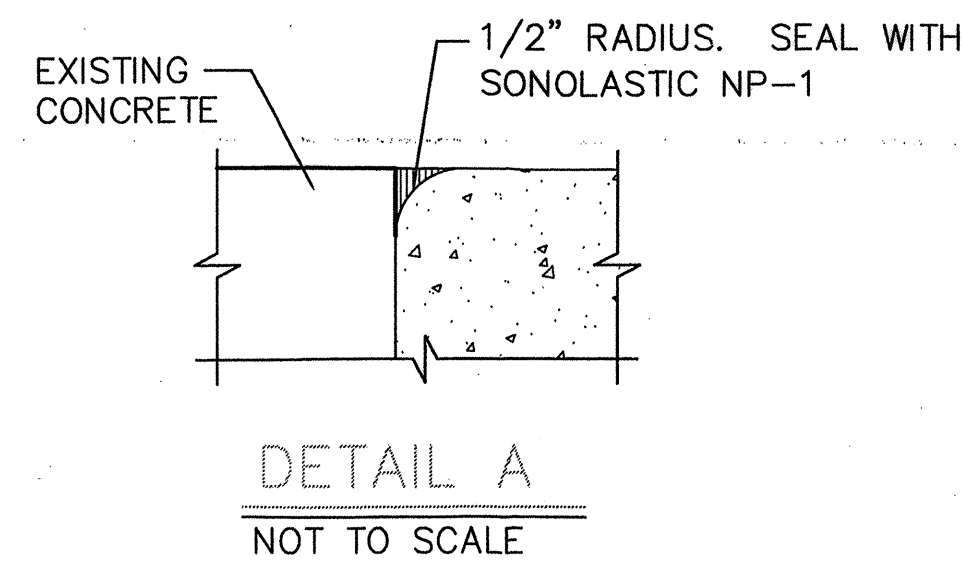
1. ALL EXPOSED CHANNEL SUBGRADE SHALL BE PROTECTED WITH TEMPORARY BACKFILL AND PLASTIC TO PREVENT STANDING WATER AND INFILTRATION INTO THE EXPOSED SUBGRADE PRIOR TO REPLACEMENT OF CHANNEL LINING.

## KEYED NOTES

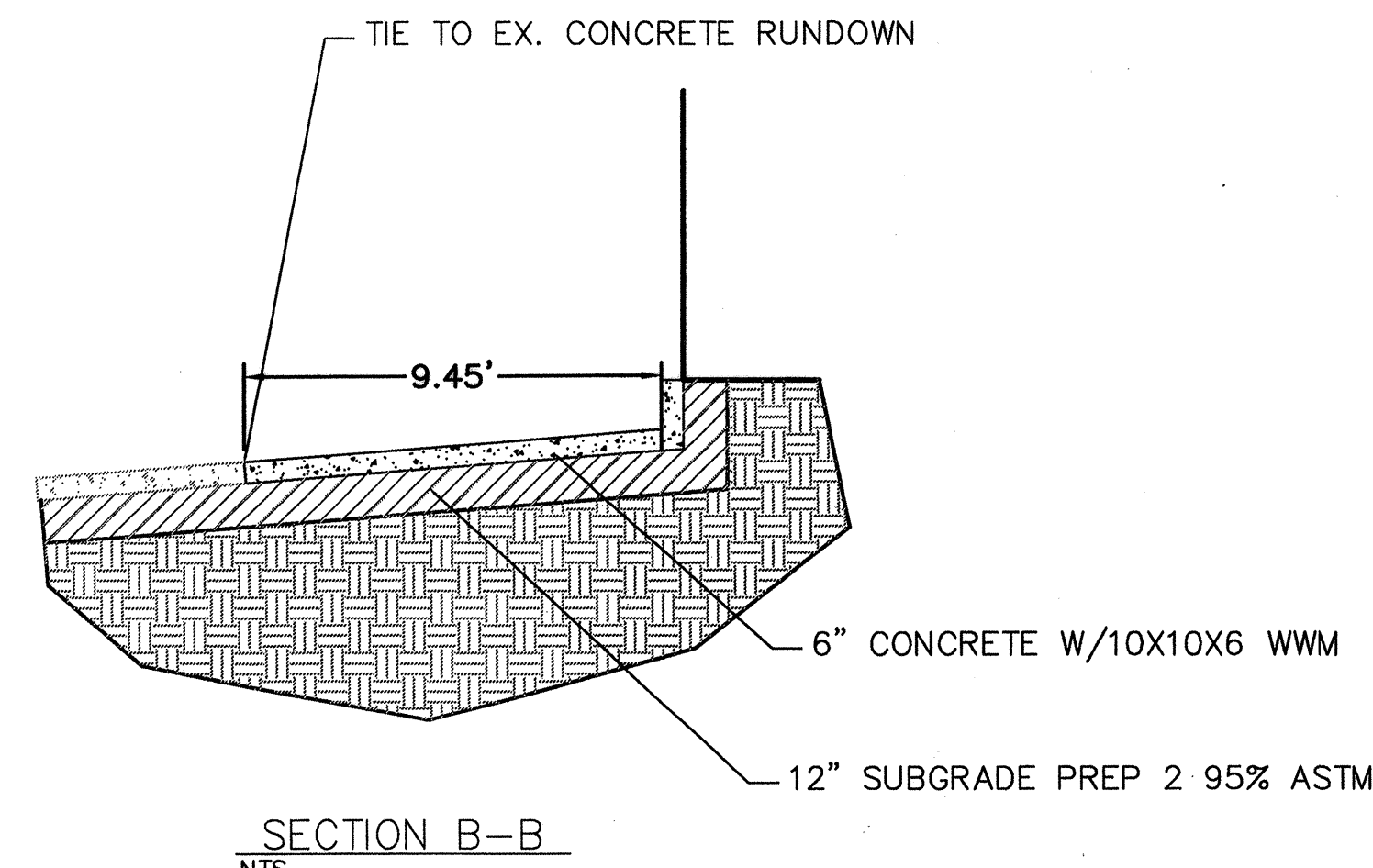
1. CHANNEL SILL
2. EXISTING CONSTRUCTION JOINT
3. EXISTING CONTROL JOINT. FIELD VERIFY.
4. SLOPE PAVING TO BE REMOVED AND RESTORED.
5. EXISTING SUB DRAIN, FIELD VERIFY.
6. EXISTING 8" CHANNEL LINING.
7. DELINEATE REMOVAL WITH 2" DEEP SAW CUT.
8. FULL DEPTH SAW CUT.
9. KEYED CONSTRUCTION JOINT WITH METAL JOINT FORM.
10. SEE NEW TO EXISTING CONSTRUCTION JOINT DETAIL.
11. 12" SUBBASE PREPARATION @ 95% MODIFIED PROCTOR DENSITY.
12. 12" LEAN-FILL BASE COURSE.
13. GRADED FILTER. COORDINATE GRADATION WITH AMAFCA.
14. NEW 8" CONCRETE CHANNEL LINING WITH #5 TRANSVERSE BARS AT 12" O.C. AND #7 LONGITUDINAL BARS AT 12" O.C. LOCATE BARS IN CENTER OF SLAB.
15. REMOVE TO EXISTING CONSTRUCTION JOINT IF PRESENT. FIELD VERIFY.

## NEW TO EXISTING CONSTRUCTION JOINT DETAILS

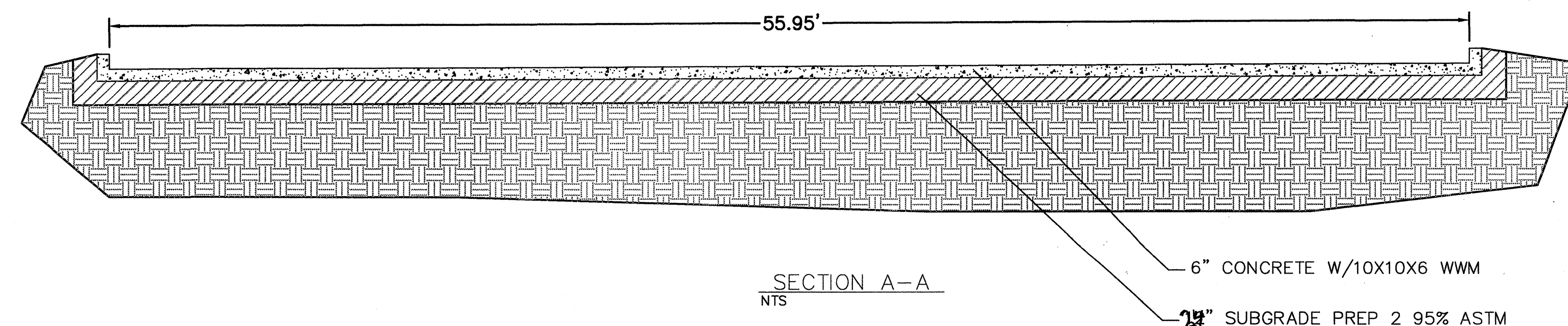
SCALE: 1" = 1'-0"



WEST TIE TO EX. SIDE INLET  
NTS



SECTION B-B  
NTS



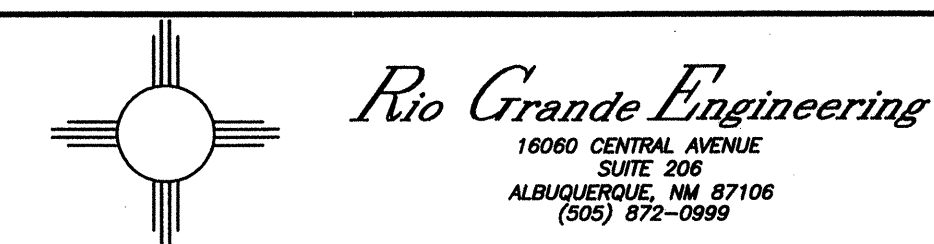
SECTION A-A  
NTS

BENCH MARKS	
ACS MONUMENT 1-25-11	
N=1526309141	
E=154253.66	
NAD 1983 NADVD1988	
ELEV=5209.617	
(NGVD 1929) NEW MEXICO STATE PLANE	
G/G=0.999965711	
DELTA/ALPHA= -0011'21.89"	

SURVEY INFORMATION	
FIELD NOTES	DATE
	BY
NO.	

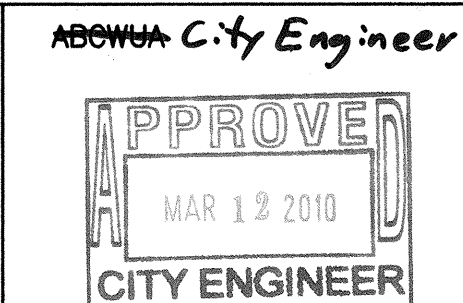
ENGINEER'S SEAL	
NO.	DATE
REMARKS	BY
REVISIONS	
DESIGN	
DESIGNED BY: WCMJ	DATE: 8-31-09
DRAWN BY: WCMJ	DATE: 8-31-09
DRAWN NAME: 2915-LAYOUT-8-17-09.DWG	JOB NO.: 2915
CHECKED BY: DS	DATE: 8-31-09

Record Drawing



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: **SAN ANTONIO STORAGE**  
CONCRETE SLOPE PAVING REMOVAL AND REPLACEMENT DETAIL



LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

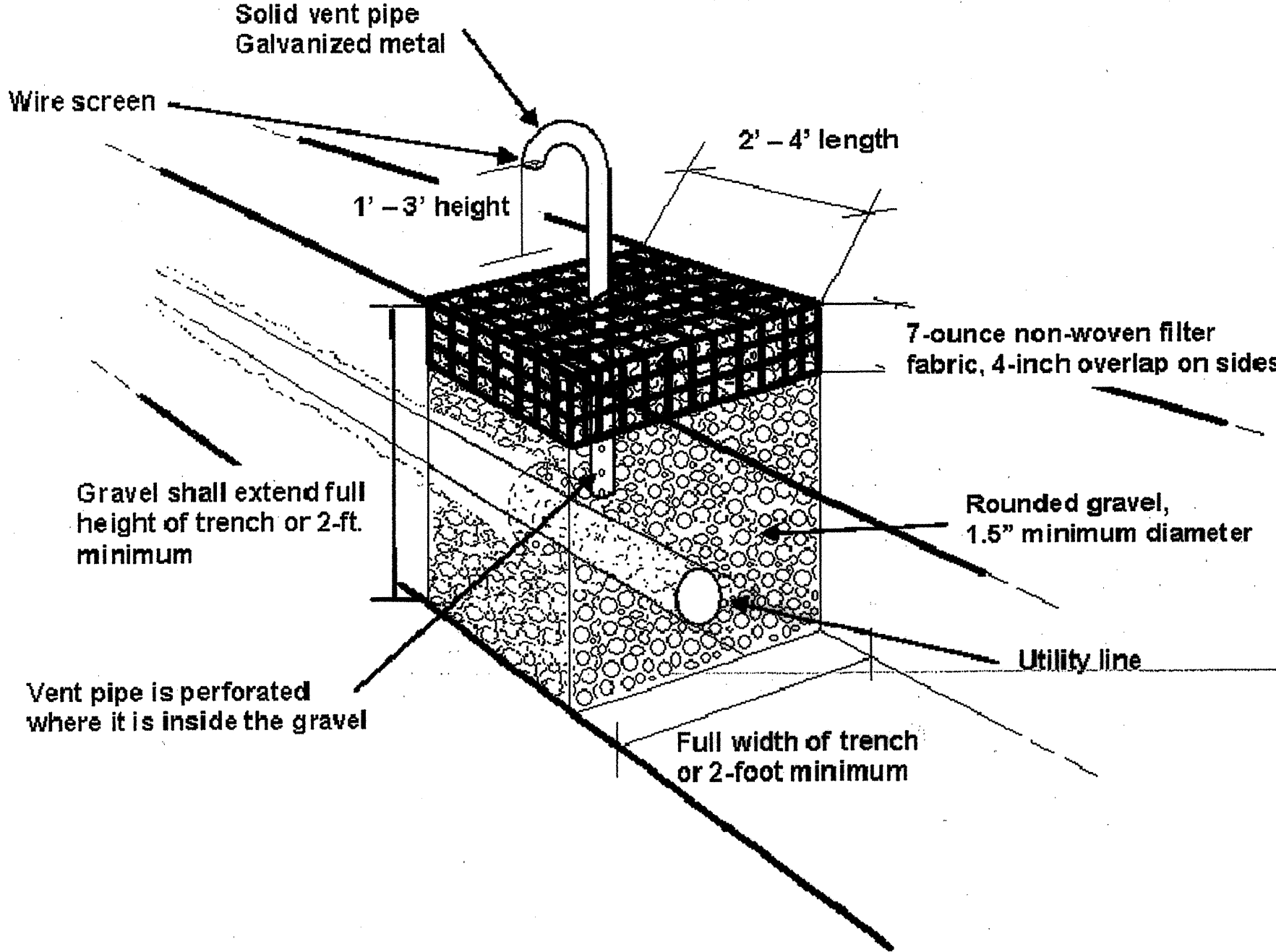
CITY PROJECT NO. 735185	ZONE MAP NO. E-18-Z	SHEET 8A OF 11
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Utility Trench Venting Barrier - Gooseneck

Utility trench venting barriers shall be placed in landscaped areas that are away from pedestrian and vehicular traffic. Vent openings shall not be within 15 feet of a building opening (door, HVAC inlet, or window).

Landscaping material (gravel, bark, etc.) should be placed over the filter fabric if the top of the gravel is at grade. If the top of the gravel is below grade, then compacted fill should be placed above the filter fabric. The metal pipe shall be permanently labeled "Landfill Gas Vent".



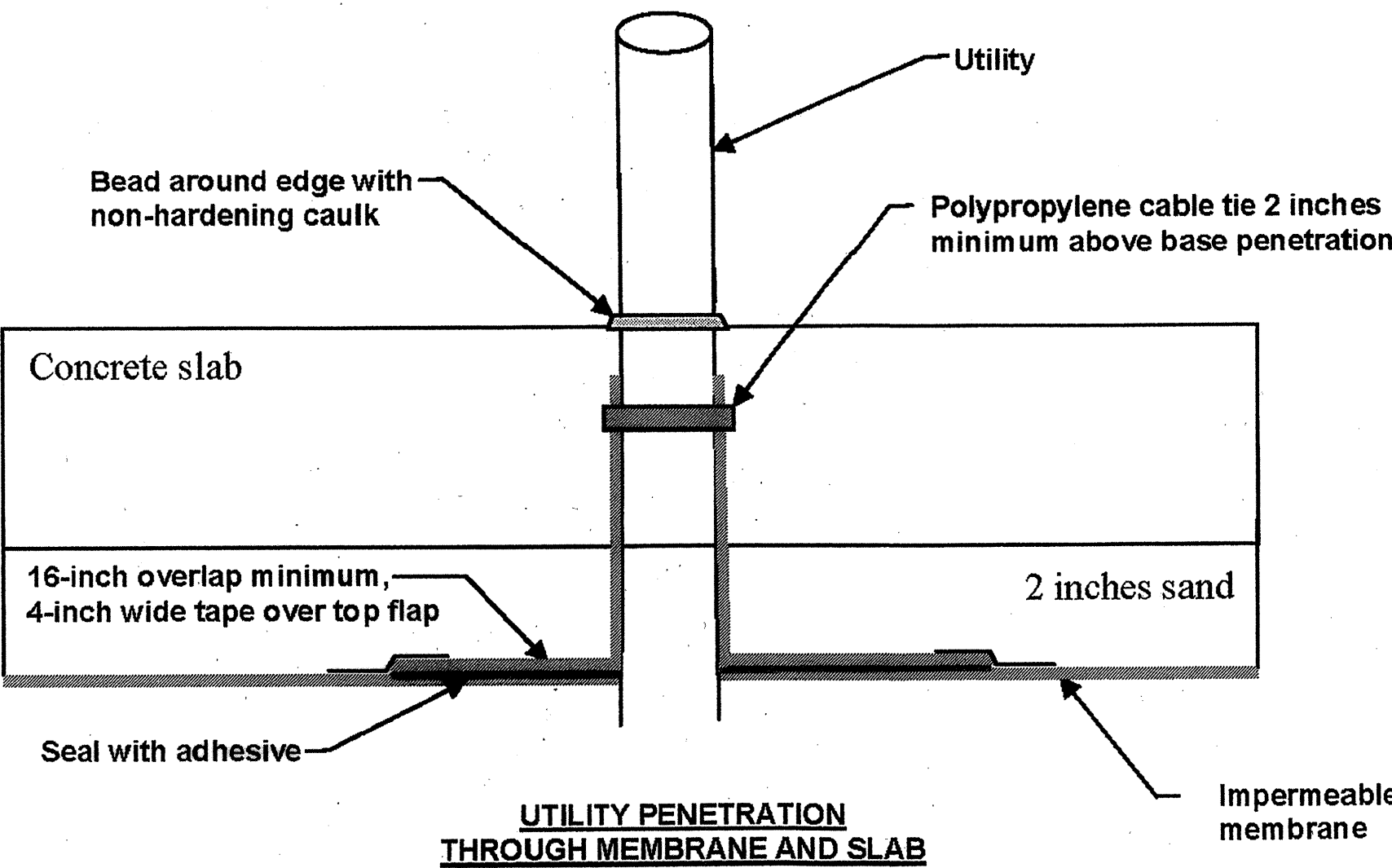
Bottom of vent pipe extends a minimum of 1 foot into the gravel, to the approximate mid-point of the gravel barrier. The sides of the vent pipe where it penetrates the gravel barrier shall be located at least 2 inches from the sides or bottom of the trench and from the utility pipelines. Perforations in the vent pipe within the gravel barrier shall be 1/2-inch diameter, on 6-inch centers, and at 120° around the pipe. The vent pipe shall be 2-inch diameter and constructed of galvanized metal. Utility lines shall be placed at least 2 inches above the bottom of the trench.

A utility trench venting barrier shall be placed on all underground utilities at the site - wet or dry, public or private, existing or planned. Several utilities may be placed through the same utility trench venting barrier.

Landfill Gas Survey  
Site: San Antonio Self Storage  
Albuquerque, NM

Client: Parks Construction, Inc.  
V&A Project No. 08-1-236  
No Scale  
Detail A

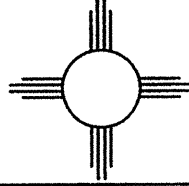

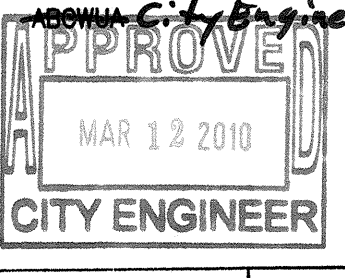
Impermeable Membrane



Landfill Gas Survey  
Site: San Antonio Self Storage  
Albuquerque, NM

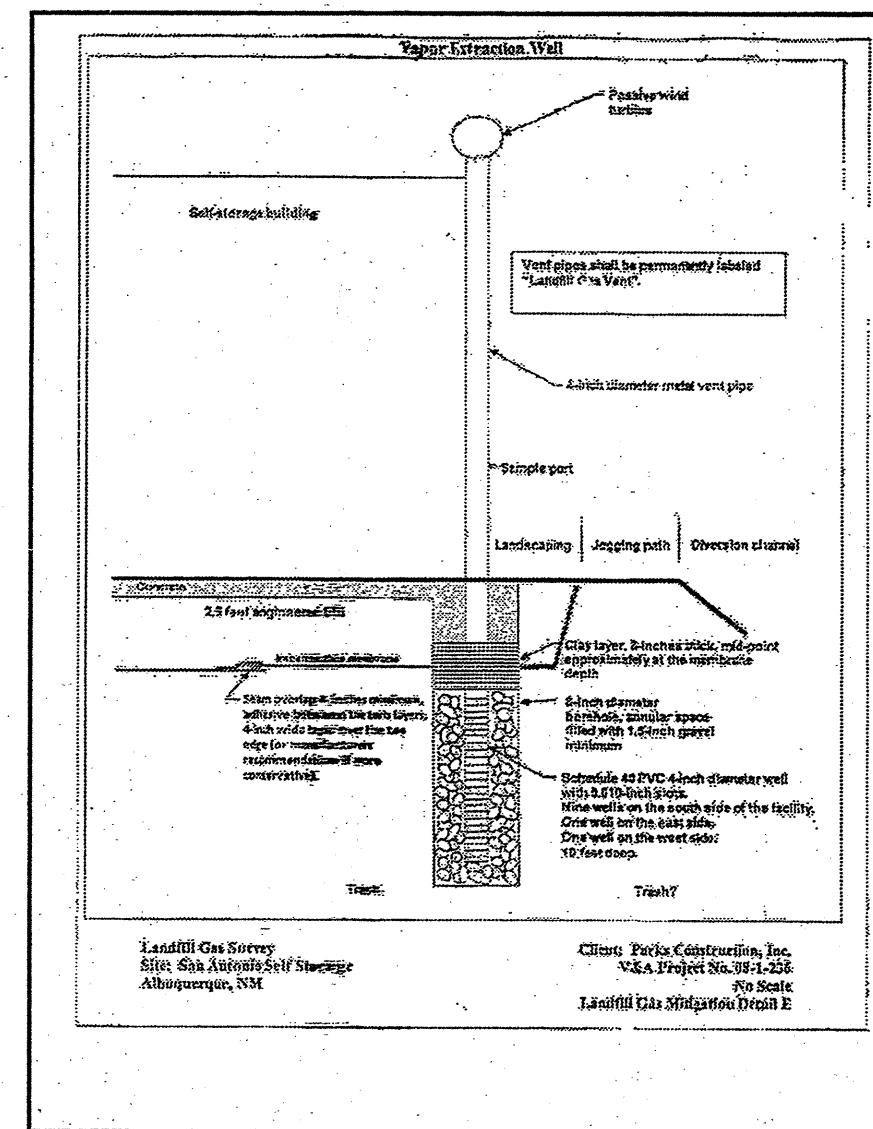
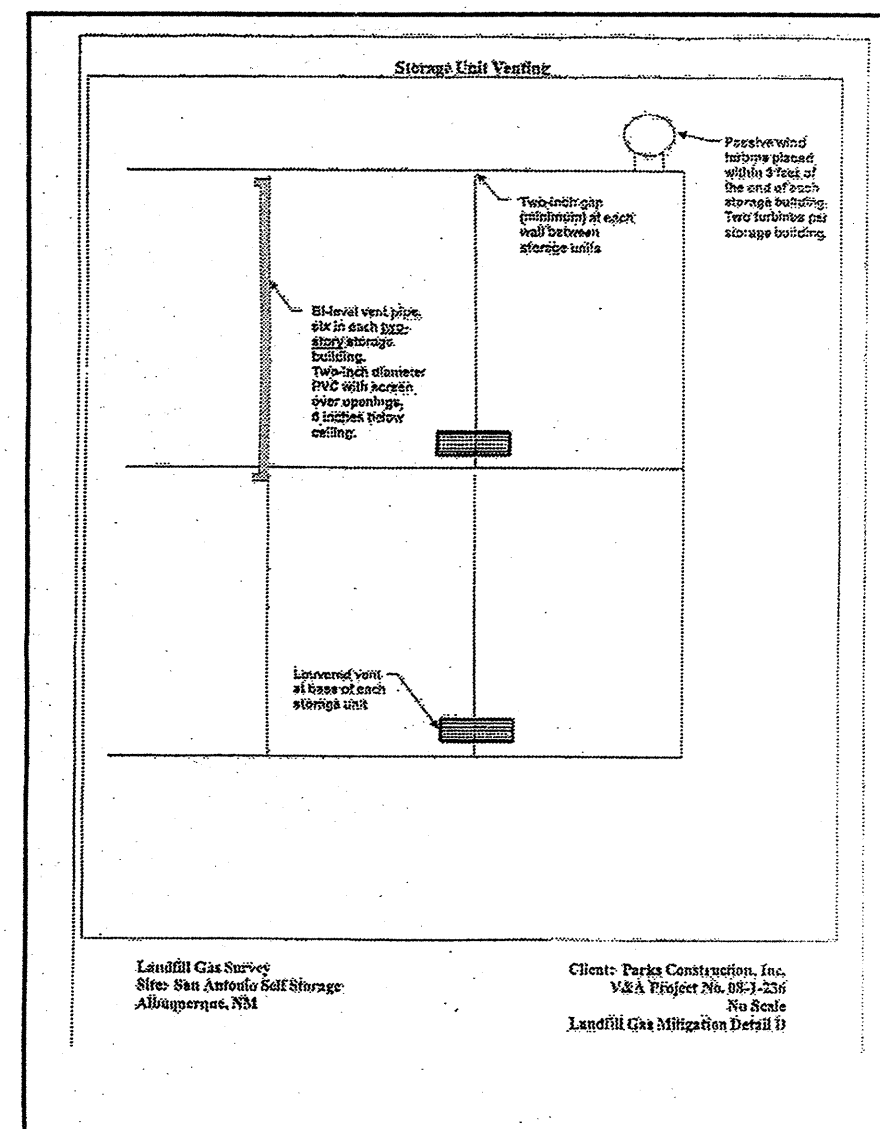
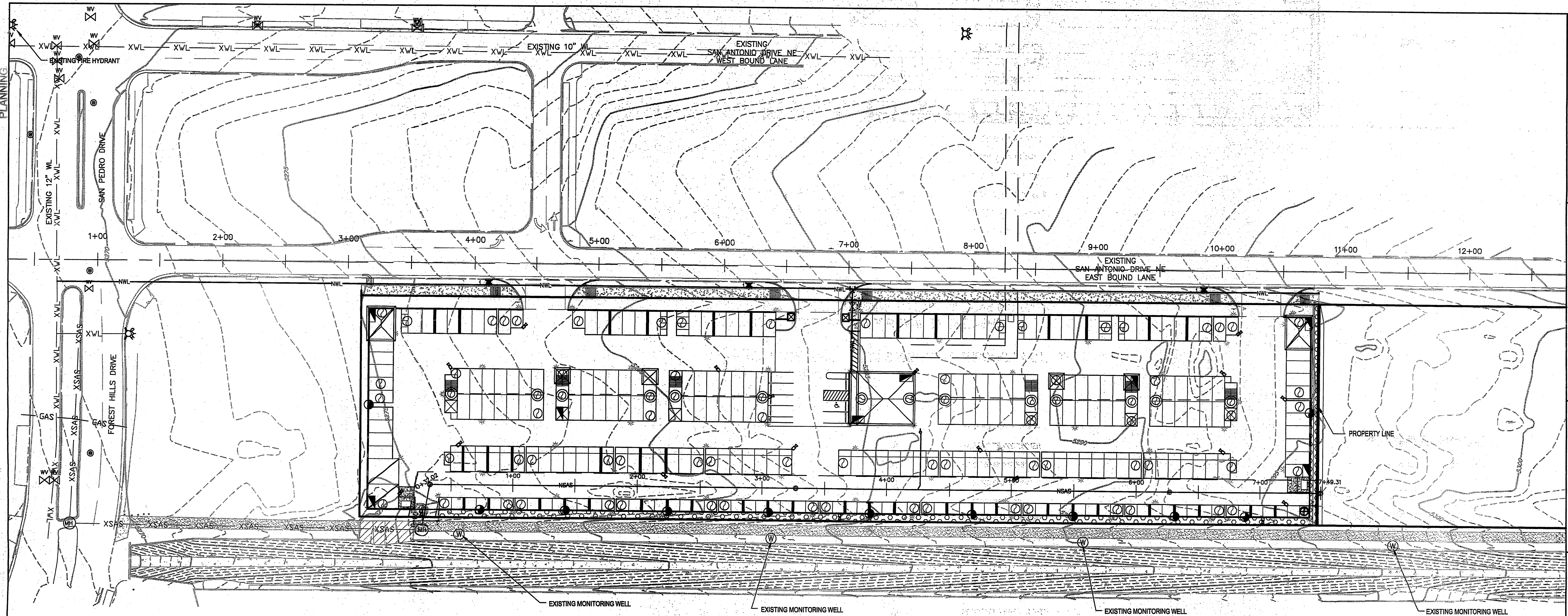
Client: Parks Construction, Inc.  
V&A Project No. 08-1-236  
No Scale  
Detail B

Record Drawing

 <b>Rio Grande Engineering</b> 16060 CENTRAL AVENUE SUITE 200 ALBUQUERQUE, NM 87116 (505) 872-1099		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: <b>SAN ANTONIO STORAGE</b> UTILITY VENTING BARRIER DETAIL SHEET			
DESIGN REVIEW COMMITTEE  FEB 26 2010 DESIGN REVIEW COMMITTEE	APPROVED  MAR 12 2010 CITY ENGINEER	LAST DESIGN UPDATE	MO./DAY/YR. MO./DAY/YR.
CITY PROJECT NO. 735185	ZONE MAP NO. E-18-Z	SHEET 9	OF 11



SCANNED BY  
PLANNING



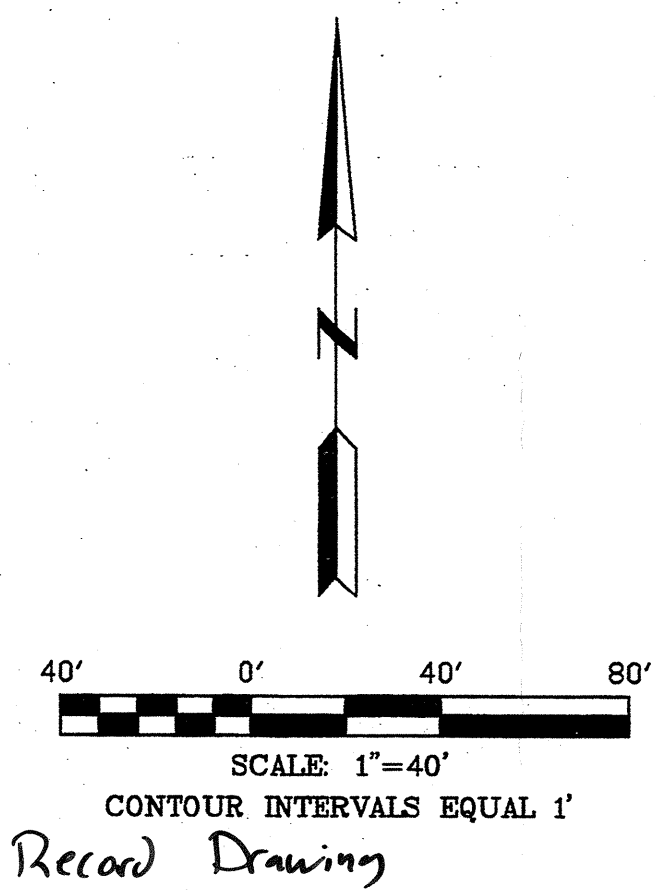
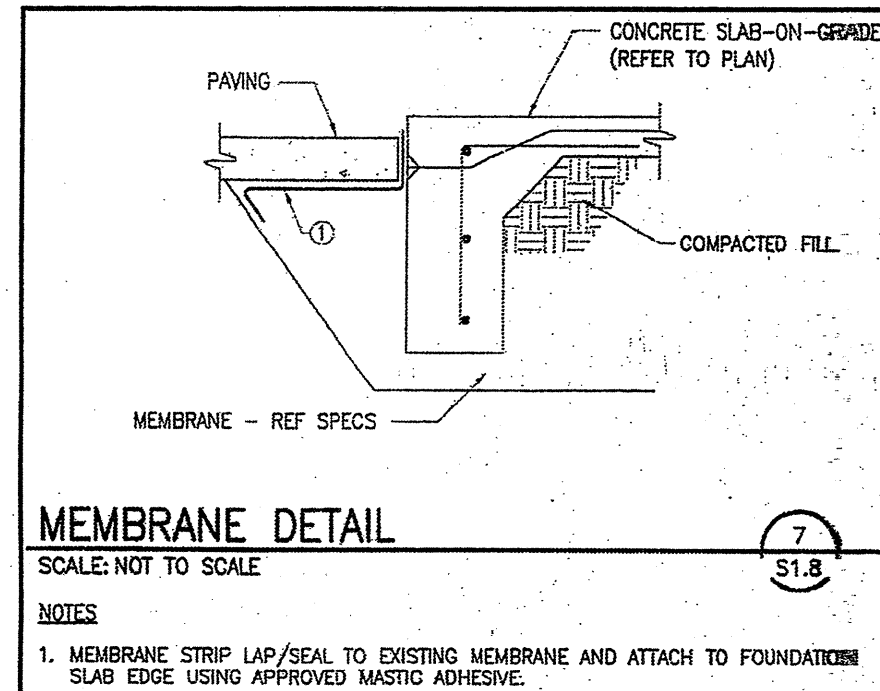
*FOR INFORMATION ONLY*

NO CHANGES SHALL BE MADE TO LANDFILL GAS MITIGATION  
DESIGN WITHOUT PRIOR APPROVAL BY THE AEHD.

ALL UNDERGROUND UTILITIES WILL PASS THROUGH A UTILITY  
TRENCH VENTING BARRIER.

#### UTILITY LEGEND

— XL	EXISTING WATER LINE	⊗	EXISTING CATV PEDESTAL
— XSAS	EXISTING SANITARY SEWER LINE	⊗	EXISTING TRANSFORMER
⊗	EXISTING WATER METER	⊗	EXISTING MONITORING WELL
⊗	EXISTING SANITARY MANHOLE	⊗	EXISTING FIRE HYDRANT
⊗	EXISTING WATER VALVE	⊗	EXISTING BOLLARD
⊗	EXISTING TELEPHONE PEDESTAL	⊗	PROPOSED FIRE HYDRANT
⊗	EXISTING POWER/UTILITY POLE	⊗	PROPOSED ROOF WIND TURBINE
⊗	EXISTING GAS METER	⊗	PROPOSED WIND TURBINE CONNECTED TO VENT PIPE
⊗	EXISTING ELECTRIC METER	⊗	PROPOSED PERFORATED VENT PIPE
⊗	EXISTING MONITORING WELL	⊗	PROPOSED METHANE SENSOR
		⊗	PROPOSED VENT TURBINE OVER WELLS
		⊗	PROPOSED VENT OVER UTILITIES



Land  
Development  
Planning

P.O. Box 94086  
ALBUQUERQUE, NEW MEXICO 87199  
PHONE: (505) 503-6340  
FAX: (505) 503-6540  
E-MAIL: ldplanning@comcast.net

Engineers • Planners • Construction Management

CITY OF ALBUQUERQUE  
MUNICIPAL DEVELOPMENT DEPARTMENT  
ENGINEERING DIVISION

TITLE		SAN ANTONIO SELF STORAGE LANDFILL GAS MITIGATION PLAN	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR. 09-09-2009	MO./DAY/YR.
LAST DESIGN UPDATE			
CITY PROJECT NO. 735185	ZONE MAP NO. E-18-Z	SHEET 10 of 11	C-5

LDC JOB NO. Bern-08-0001



