

SCANNED BY
PLANNING

PUBLIC IMPROVEMENT PLANS
FOR
PASEO PLACE
WATER AND SANITARY SEWER LINE EXTENSIONS
ALBUQUERQUE, NEW MEXICO
MARCH 2009

PREPARED FOR:
PASEO PLACE, LLC
6300 RIVERSIDE PLAZA LN, NW, STE 200
ALBUQUERQUE, NM 87120

PREPARED BY:
ISAACSON & ARFMAN, P.A.
128 MONROE ST. NE
ALBUQUERQUE, NM 87108

INDEX TO DRAWINGS

SHEET NO.	TITLE
1	COVER SHEET
2	ALTA SURVEY
3	UTILITY MASTERPLAN
4	UTILITY PLAN & PROFILE
5 (ENV-1)	LANDFILL GAS MITIGATION PLAN

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

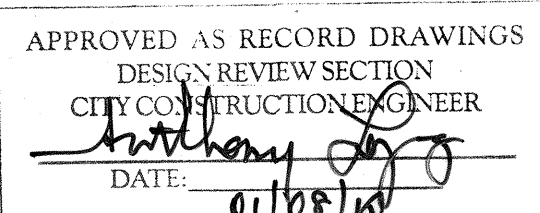
I, Asa Nilsson-Weber of the firm of Isaacson & Arfman, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with Sheets 1-4 of 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 and survey information provided by Thomas D. Johnston of the firm Wayjohn Surveying Inc., NMPS number 14269. Certification for infrastructure shown on Sheet 5 is by others.

Asa Nilsson-Weber 8-20-09
Asa Nilsson-Weber NMPE No. 17631



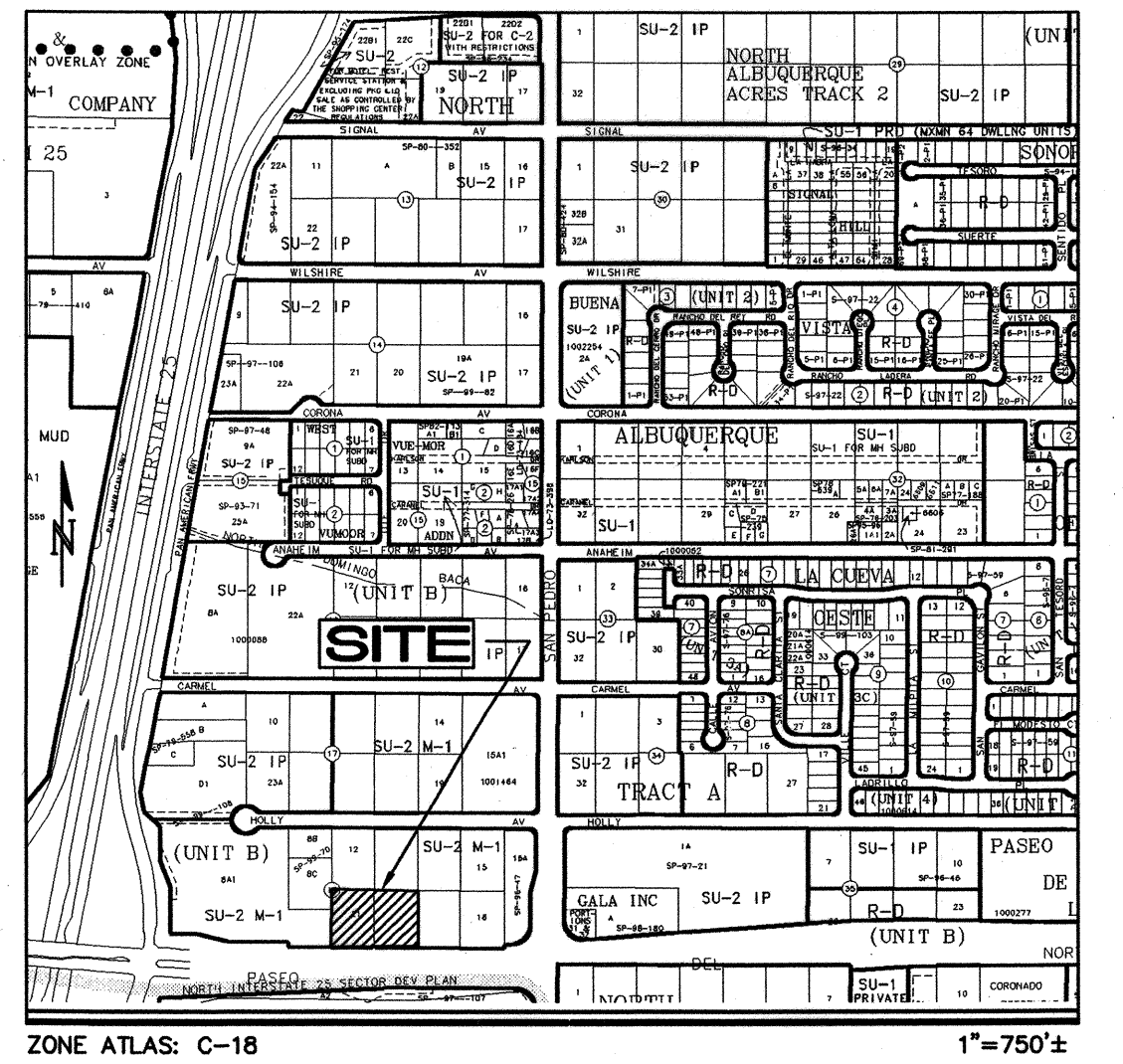
LANDFILL NOTE

The subject property is located near a former landfill. Due to the subject property being near a former landfill, certain precautionary measures may need to be taken to ensure health and safety of the public. Recommendation 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.



GENERAL NOTES

- 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 AS AMENDED WITH UPDATE NO. 7, INCLUDING AMENDMENT 1.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, NM ONE CALL SYSTEMS, INC. @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED WITH UPDATE NO. 7.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- TRAFFIC CONTROL: SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS SHOWN IN THIS PLAN SET.
- WHEN AFFUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
- EXISTING CURB AND GUTTER NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE PER COA STD DWG #2415A.
- SUPPLEMENTAL SPECIFICATION: ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM 95% MAXIMUM DENSITY PER ASTM D-1557.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 DR-18 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
- ALL SANITARY SEWER LINE MATERIAL SHALL BE PVC SDR-35 PIPE.
- ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
- THE 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 UPDATE #7.
- PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- WARNING--EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY. THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- ANY WORK OCCURRING WITHIN A FULLY DEVELOPED ARTERIAL ROADWAY REQUIRES 24 HR. CONSTRUCTION.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 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 PREFORMED THERMO-PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
- ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE EXECUTION OF THE WATER VALVE SHUT-OFF PLAN WITH ABCWUA. ALL WATER VALVES TO BE SHUT-OFF WILL BE OPERATED BY ABCWUA. CONTRACTOR SHALL NOTIFY ABCWUA AT 857-8200 TWENTY FOUR (24) HOURS PRIOR TO WATERLINE CONSTRUCTION, AND SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT EXISTING PUBLIC WATER FACILITIES IN COMPLIANCE WITH SECTION 18 OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL SUPPORT ALL EXISTING UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF RECORD DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.
- THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT REMOVES, RELOCATES, OR REINSTALLS ANY EXISTING REGULATORY SIGNS.



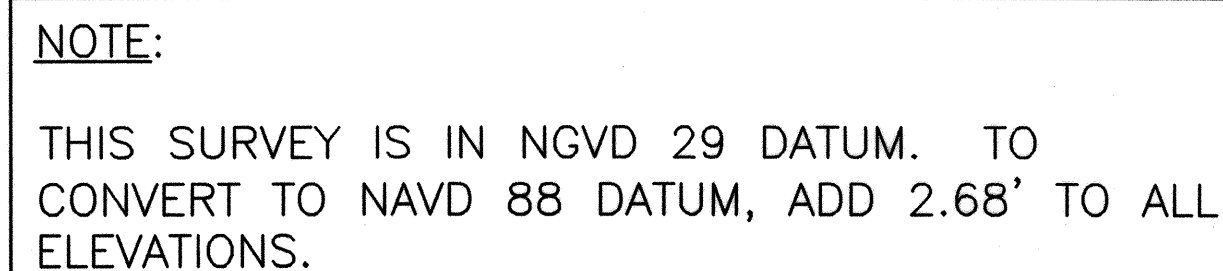
ZONE ATLAS: C-18

1"=750'

RECORD DRAWING

REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	*****		
		DRC Chairman		<i>Asa Nilsson-Weber</i>		4/30/09	APPROVED FOR CONSTRUCTION		
		Transportation		<i>Asa Nilsson-Weber</i>		4/30/09			
		Water Authority		<i>Asa Nilsson-Weber</i>		4-7-09			
		Hydrology		<i>Asa Nilsson-Weber</i>		4-7-09			
		Constr. Mngmt.		<i>Asa Nilsson-Weber</i>		4-7-09			
Constr. Coord.		<i>Asa Nilsson-Weber</i>		<i>Asa Nilsson-Weber</i>		4-7-09	City Engineer		
Envir. Health Dept.		<i>Asa Nilsson-Weber</i>		<i>Asa Nilsson-Weber</i>		4-7-09	Date		
City Project No.		753484		Sheet		1	Of		5

1644 VX-ALTA.dwg Mar 24, 2009



CITY PROJECT NO. 753484
SHEET 2 OF 5

EM	ELECTRIC METER	+0.61/2	SPOT ELEVATION	
WM	WATER METER		UNLESS OTHERWISE INDICATED, SPOT ELEVATIONS ARE TO NATURAL GRADE	
MH	SANITARY SEWER MANHOLE EXCEPT AS OTHERWISE NOTED		EC	EDGE OF CONCRETE
FH	FIRE HYDRANT		TA	TOP OF ASPHALT
PP	POWER POLE		TC	TOP OF CURB / CONCRETE
ANCH	ANCHOR	FL	FLOWLINE	
LP	LIGHT POLE	SW	SIDEWALK	
OVERHEAD POWER LINE		—○—	CHAIN LINK FENCE	
TREE, CALIPER +12'		— —	WIRE FENCE	
—5220—		— —	CONCRETE RETAINING WALL	
INDEX CONTOURS @5' INTERVALS		----	STORM DRAIN LINE	
		----	SANITARY SEWER	
INTERMEDIATE CONTOURS @1' INTERVALS		----	WATER LINE	

- 1 Boundary dimensions are between recovered corners and correspond to those on a previous survey by Wayjohn Surveying, Inc. Bearings have been rotated to New Mexico State Plane Grid, Central Zone
- 2 Basis of elevations: ACS BM "14-C18", 1-3/4" Alum. disk, set on top of concrete drop inlet, approx. 1150' west of centerline of San Pedro Drive.
ELEV. 5207.00 (NGVD 29)
- 3 TBM N. Manhole rim, located in conc. sidewalk, S. of South property line
ELEV. 5214.98
- 4 Locations of Sanitary Sewers and Waterlines are from visual notes supplemented by on-line graphics provided by City GIS site.

Lots numbered Twelve (12), Thirteen (13), Fourteen (14), Fifteen (15), Eighteen (18), Nineteen (19), Twenty (20), and Twenty-one (21) in Block numbered Eighteen (18) of TRACT A, UNIT B, NORTH ALBUQUERQUE ACRES, 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 April 24, 1936.

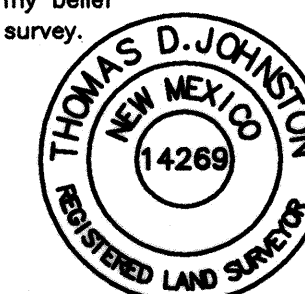
LESS AND EXCEPTING therefrom property described in Warranty Deed filed June 16, 1997, recorded in Book 97-16, Page 1756, as Document No. 97060397, records of Bernalillo County, New Mexico.

The above described property is located within Zone "X (No Flood Hazards)", Community Panel No. 350002 0137 F, dated November 19, 2003, and is not located within a Special Flood Hazard Boundary indicated by FEMA Flood Insurance Rate Maps. Determination of Flood Hazard is by graphic plotting only.

This is to certify that a topographic site survey on the above referenced property was performed by me or under my supervision and that the information contained herein is true and correct to the best of my belief and knowledge. This does not constitute a corner or boundary survey.

Thomas D. Johnston, NMPS 14269

Date _____

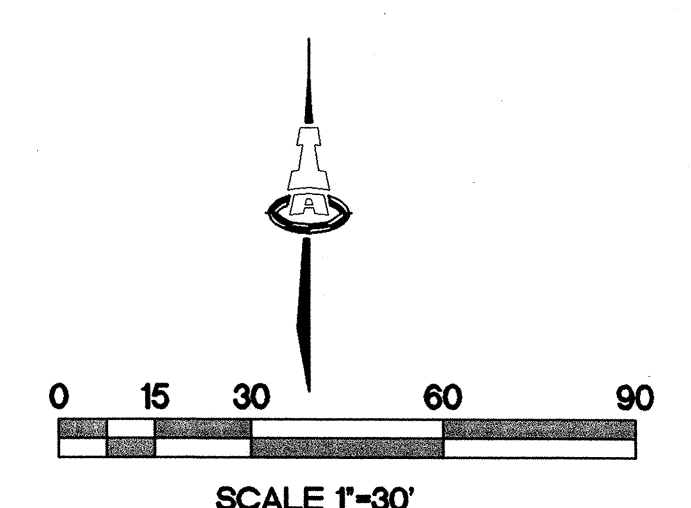
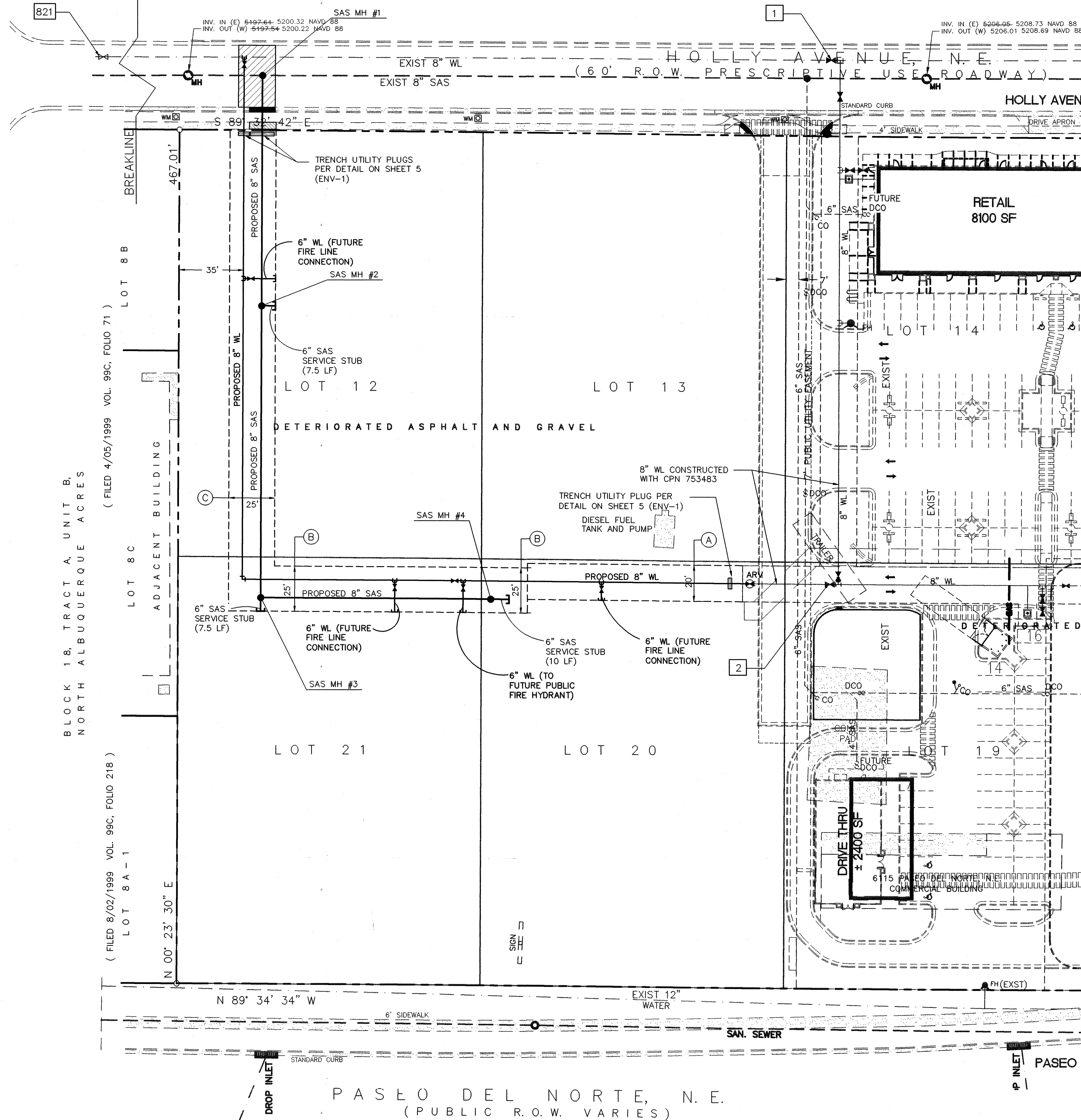


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Record Drawing

330 LOUISIANA BLVD., N.E.
ALBUQUERQUE, N.M. 87108
PHONE: (505) 255-2052 FAX: (505) 255-2887

Date of Survey: 2/15/2005	Draftsman: E W K
Date of Last Revision: N/A	Job No.: ALTA-9-03-2004T
File No.: c:\ALTA90304T.DWG	Scale: 1" = 40'
For: ARGUS DEVELOPMENT CO. INC.	
Client: FRED ARFMAN, P.E.	Phone No.: (505) 268-8828



RESTRAINED JOINT LENGTHS, L_r,
FOR TEES, (FT.)
ALL JOINTS AT THE TEE MUST BE RESTRAINED.

SIZE	RUN	BRANCH
8x8x8	9	20
8x8x6	5	17

RESTRAINED JOINT LENGTHS, L_r,
FOR HORIZONTAL BENDS, VALVES,
AND DEAD ENDS, (FT.)

SIZE	HORZ. BENDS				VALVES & DEAD ENDS
	90°	45°	22 1/2°	11 1/4°	
8	22	9	4	2	60
6	17	7	3	2	46

THIS TABLE IS BASED UPON THE FOLLOWING CRITERIA:

DEPTH OF BURY: 3.0 FT. MINIMUM
FACTOR OF SAFETY: 1.25
MATERIAL: PVC PIPE (C900-DR18)
SOIL TYPE: GM/SM - SILTY GRAVELS AND SILTY SANDS, GRAVEL-SAND-SILT MIXTURES.
TEST PRESSURE: 150 PSI
TRENCH TYPE 4: PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4 INCH MINIMUM; BACKFILL COMPACTED TO TOP OF PIPE.

DIFFERENT CRITERIA, E.G., DUCTILE IRON PIPE, GREATER DEPTH OF BURY, ETC., WILL REQUIRE DIFFERENT RESTRAINED LENGTHS. THESE MUST BE CALCULATED BY A QUALIFIED PROFESSIONAL ENGINEER AND APPROVED BY THE WATER AUTHORITY.

- NOTES:**
- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
 - THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
 - THE CONTRACTOR SHALL RESTRAIN ALL JOINTS A DISTANCE OF 40' ADJACENT TO THE UTILITY PLUGS FOR LANDFILL GAS MITIGATION.
 - NO PIPE JOINTS SHALL BE LOCATED WITHIN 7' OF THE UTILITY PLUGS FOR LANDFILL GAS MITIGATION.

**RESTRAINED JOINT LENGTHS
FOR WATERLINE FITTINGS**

WATER SHUT-OFF PLAN

SHUT-OFF VALVES [1], [2] & [821] TO PROVIDE NON-PRESSURE CONNECTION. THE CONTRACTOR SHALL CONTACT ABCWUA (857-8200) 7 WORKING DAYS PRIOR TO SHUT-OFF OR TURN-ON AT VALVES. ONLY ABCWUA PERSONNEL ARE ALLOWED TO OPERATE VALVES.

LEGEND

- GATE VALVE W/ VALVE BOX
- AIR RELEASE VALVE W/ VALVE BOX
- 4' DIA SAS MANHOLE
- WATER LINE W/ FITTING
- EXISTING SAS
- EXISTING WATER LINE
- PAVEMENT REMOVAL & REPLACEMENT W/ 2" ADDITIONAL THICKNESS PER COA STD DWG #2465 (MAJOR LOCAL)
- REMOVE & REPLACE EXISTING SIDEWALK PER COA STD DWG #2430
- REMOVE & REPLACE EXISTING STANDARD CURB & GUTTER PER COA STD DWG #2415A
- TRENCH UTILITY PLUG PER DETAIL ON SHEET 5 (ENV-1)

EASEMENT NOTES

- 20' PUBLIC WATERLINE EASEMENT GRANTED TO ABCWUA. DOC #2009045432. DATE 04/28/2009.
- 25' PUBLIC WATERLINE AND SANITARY SEWER LINE EASEMENT GRANTED TO ABCWUA. DOC #2009045433. DATE 04/28/2009.
- 25' PUBLIC WATERLINE AND SANITARY SEWER LINE EASEMENT GRANTED TO ABCWUA. DOC #2009045431. DATE 04/28/2009.

GENERAL NOTES

- INSTALL LANDFILL GAS MITIGATION MEASURES AS REQUIRED BY ENVIRONMENTAL STUDY--SEE SHEET 5--ENV-1.

RECORD DRAWING

Record Drawing

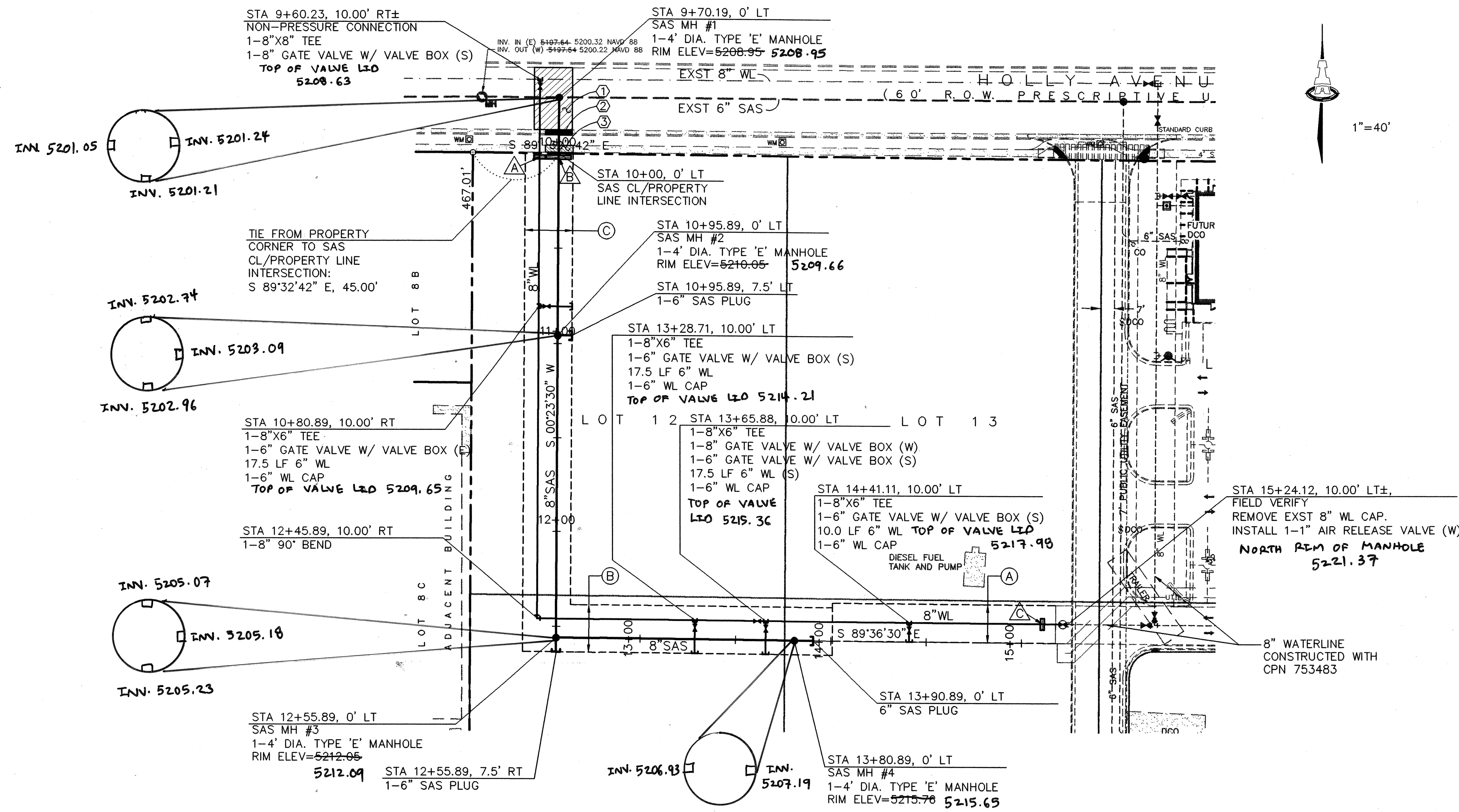
ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 Fax. 505-268-2632
1644 CU-101.dwg Mar 30, 2009

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

**TITLE: PASEO PLACE
WATER AND SANITARY SEWERLINE EXTENSION
UTILITY MASTERPLAN**

Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
APPROVE APR 3 9 2009 DESIGN REVIEW COMMITTEE	APPROVE MAY 19 2009 CITY ENGINEER		
City Project No. 753484	Zone Map No. C-18	Sheet 3	Of 5

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	FIELD NOTES	REVISIONS	DESIGNED BY	CHECKED BY
WORK STATED BY: LAYTON SUPERVISOR	DATE: 6-09	THOMAS D. JOHNSTON	02/05	ACS BM "9_018", 3 1/4" ALUMINUM DISC RIVETED TO A PIPE 0.05 FEET BELOW GROUND AT THE SOUTHWEST CORNER OF WILSHIRE AVE AND SAN PEDRO DR. ELEV= 5232.470 (NAND 88)	NO.	DATE	DATE
FIELD VERIFIED BY: LAYTON SUPERVISOR	DATE: 6-09				BY	1/09	1/09
DRAWINGS BY: LAYTON SUPERVISOR	DATE: 6-09				DESIGN	1/09	1/09
CORRECTED BY: LAYTON SUPERVISOR	DATE: 6-09						
MICRO-FILM INFORMATION	RECORDED BY	NO.	DATE				



UTILITY PLUG NOTES

UTILITY PLUGS PER DETAILS ON SHEET 5 (ENV-1) SHALL BE INSTALLED AT MID-PIPE OF WATERLINE PIPE, NO LESS THAN 7 FEET FROM THE NEAREST JOINT.

PIPE JOINTS SHALL BE RESTRAINED 40 FEET ON EITHER SIDE OF THE UTILITY PLUGS.

UTILITY PLUG STATIONS

- 10+02.00, 10' RT, CENTER OF UTILITY PLUG FOR WL TRENCH (SEE DETAIL ON SHEET 5 (ENV-1))
- 10+02.00, 0' RT, CENTER OF UTILITY PLUG FOR SAS TRENCH (SEE DETAIL ON SHEET 5 (ENV-1))
- 15+11.00, 10.00' LT, CENTER OF UTILITY PLUG FOR WL TRENCH (SEE DETAIL ON SHEET 5 (ENV-1))

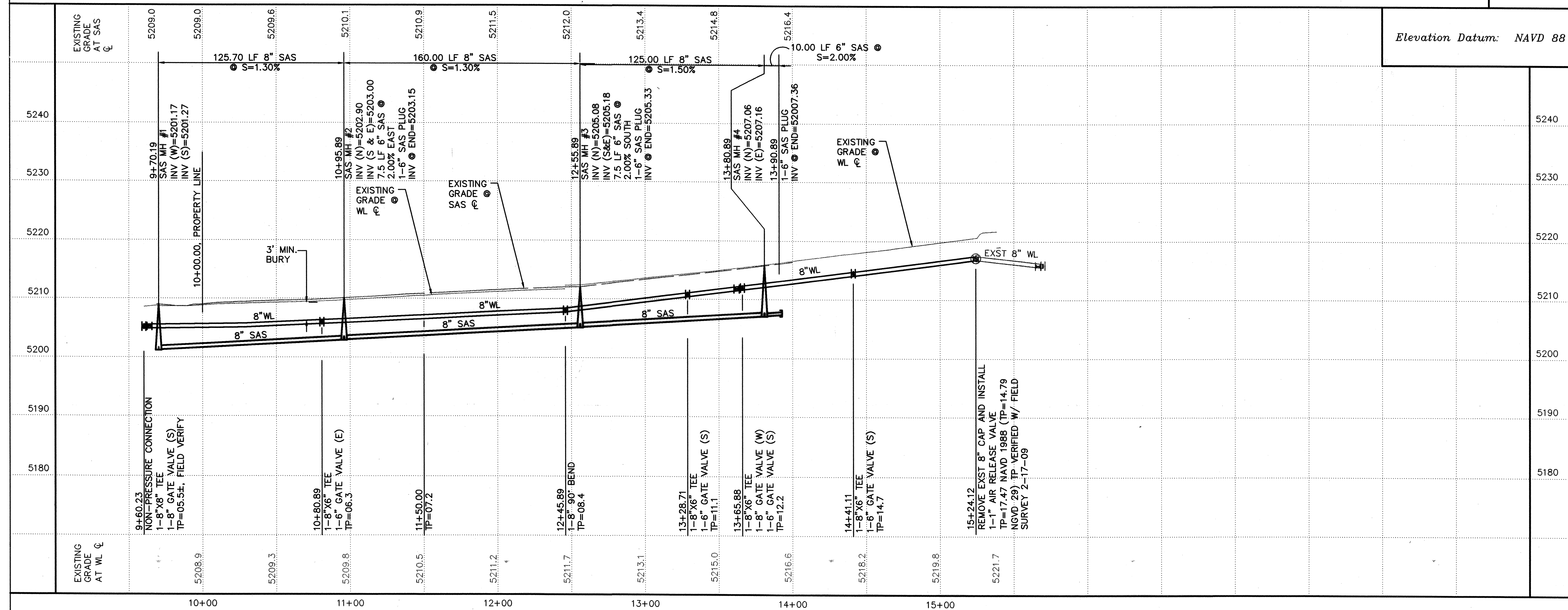
SANITARY SEWER & WATERLINE
GRADING AS-BUILT
PERFORMED BY WAYSOHN
SURVEYING, INC. ON
AUGUST 11, 2009



SCALES:
1"=40' HOR.
1"=10' VERT.

Elevation Datum: NAVD 88

WATER AND SANITARY SEWER LINE EXTENSION



GENERAL NOTES

- SEE SHEET 3 FOR WATER SHUT-OFF PLAN.
- SEE SHEET 3 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.
- SEE COA STD DWG #2326 & #2328 FOR VALVE RING & COVER DETAIL.
- WATERLINES OUTSIDE OF EASEMENT TO BE BUILT BY PRIVATE PLANS.

KEYED NOTES

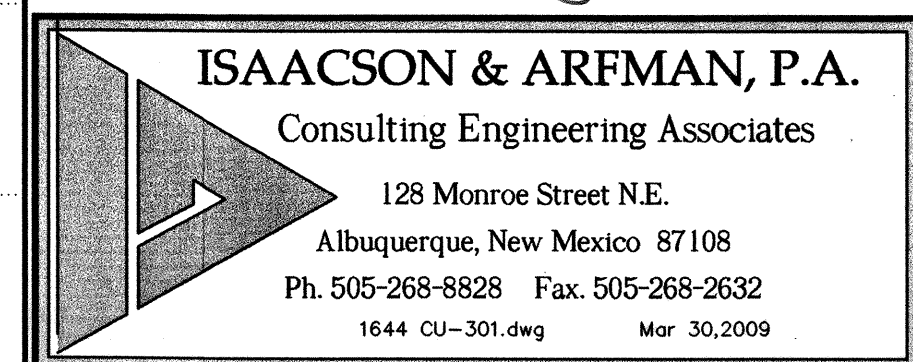
- SAWCUT, REMOVE, & REPLACE EXST ASPHALT WITH 2" ADDITIONAL THICKNESS (MAJOR LOCAL) PER COA STD DWG #2465. 75 SY±
- REMOVE & REPLACE EXST STD CURB & GUTTER PER COA STD DWG #2415A. 14 LF±
- REMOVE AND REPLACE EXST SIDEWALK PER COA STD DWG #2430. 6 SY±

EASEMENTS NOTES

- 20' PUBLIC WATERLINE EASEMENT GRANTED TO ABCWA. DOC #2009045432, DATE 04/28/2009
- 25' PUBLIC WATERLINE AND SANITARY SEWER LINE EASEMENT GRANTED TO ABCWA. DOC #2009045433, DATE 04/28/2009
- 25' PUBLIC WATERLINE AND SANITARY SEWER LINE EASEMENT GRANTED TO ABCWA. DOC #2009045431, DATE 04/28/2009

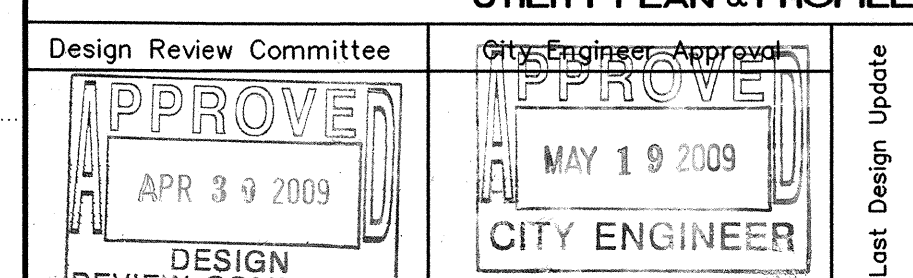
RECORD DRAWING

Record Drawing



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PASEO PLACE
WATER AND SANITARY SEWERLINE EXTENSION
UTILITY PLAN & PROFILE**



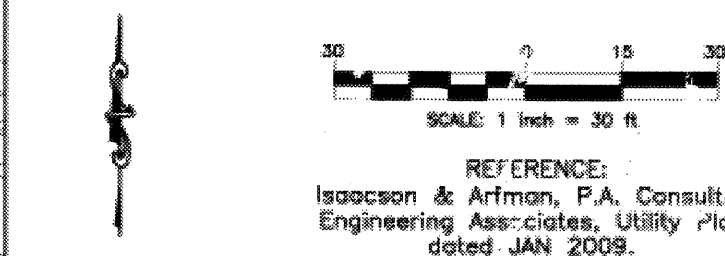
City Project No. **753484** Zone Map No. **C-18** Sheet **4** Of **5**

LEGEND

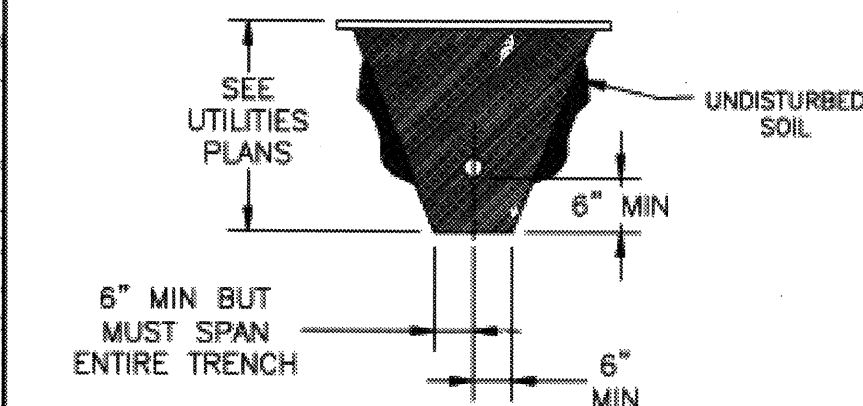
- GATE VALVE W/ VALVE BOX
- AIR RELEASE VALVE W/ VALVE BOX
- 4" DIA SAS MANHOLE
- WATER LINE W/ FITTING
- EXIST SAS
- EXIST WL
- EXISTING SAS
- EXISTING WATER LINE
- PAVEMENT REMOVAL & REPLACEMENT W/ 2" ADDITIONAL THICKNESS PER COA STD DWG #2465 (MAJOR LOCAL)
- REMOVE & REPLACE EXISTING SIDEWALK PER COA STD DWG #2430
- REMOVE & REPLACE EXISTING STANDARD CURB & GUTTER PER COA STD DWG #2415A
- TRENCH UTILITY PLUG PER DETAIL ON SHEET 5 (ENV-1)
- LANDFILL BUFFER ZONE BOUNDARY

CONSTRUCTION NOTES:

1. ALL UTILITY TRENCHES TRaversing FROM LANDFILL BUFFER ZONE TO NON-BUFFER ZONE SHALL HAVE 2'-FOOT THICK VERTICAL CLAY OR BENTONITE SLURRY SEAL IN TRENCH. SEAL SHALL PREVENT LANDFILL GAS FROM FREELY TRAVELING IN UTILITY TRENCH. THE UTILITY PLUGS SHALL BE INSTALLED PER DETAIL 1/ENV-1.
2. ENGINEER SHALL PROVIDE AS-BUILT DRAWINGS FOR UTILITY PLUG.
3. ALL CHANGES TO LANDFILL GAS MITIGATION SYSTEM SHALL BE APPROVED BY LFG ENGINEER AND ACHD PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO COORDINATE WORK INCLUDED ON SHEETS ENV-1 WITH OTHER DRAWINGS. ANY CONFLICTS SHALL BE DISCUSSED WITH OWNER PRIOR TO WORK.



NOTE: LOW PERMEABILITY CLAY MATERIAL (10^{-7} cm/sec) COMPACTED TO A MINIMUM OF 90% MAXIMUM DRY DENSITY (STANDARD PROCTOR, ASTM D998) AT ± 2 " ± 4 " OPTIMUM WATER CONTENT, INSTALLED IN LIFTS OF 8-INCH LOOSE / 6-INCH COMPACTED; OR BENTONITE SLURRY (5% BY WEIGHT BENTONITE) ~ 2 FEET THICK MAXIMUM.



NOTE: INSTALL UTILITY PLUGS AT LOCATIONS SHOWN ON SITE PLAN. ALL UTILITIES PASSING THROUGH BUFFER ZONE SHALL HAVE PLUG IN TRENCH AND ROUND PIPE AS IT ENTERS NON-BUFFER AREA. PLUG MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS.

UTILITY PLUG DETAIL
NOT TO SCALE

NOTE: The subject property is located near a former landfill. 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.

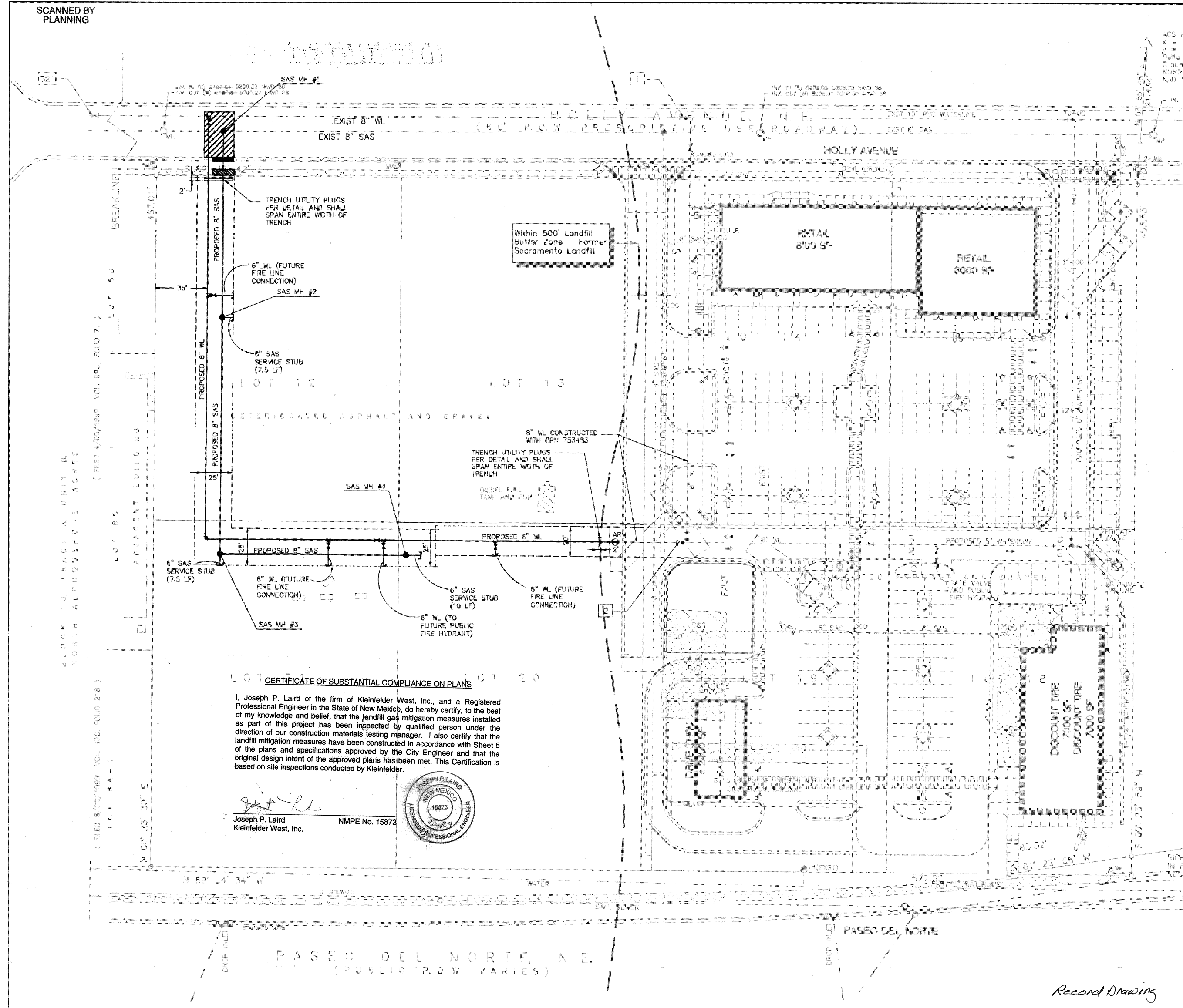


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PASEO PLACE
WATER AND SANITARY SEWERLINE EXTENSION
LANDFILL GAS MITIGATION PLAN**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED APR 30 2009 DESIGN REVIEW COMMITTEE	APPROVED MAY 19 2009 CITY ENGINEER		
City Project No. 753484	Zone Map No. C-18	Sheet 5 Of 5	Of 5

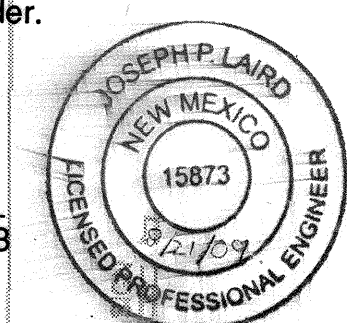
Record Drawing



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Joseph P. Laird of the firm of Kleinfelder West, Inc., and a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the landfill gas mitigation measures installed as part of this project has been inspected by qualified person under the direction of our construction materials testing manager. I also certify that the landfill mitigation measures have been constructed in accordance with Sheet 5 of the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met. This Certification is based on site inspections conducted by Kleinfelder.

Joseph P. Laird
Kleinfelder West, Inc.
NMPE No. 15873



BLOCK 18, TRACT A, UNIT B,
NORTH ALBUQUERQUE ACRES

(FILED 4/05/1999 VOL. 99C, FOLIO 71)

(FILED 8/02/1999 VOL. 99C, FOLIO 218)
LOT 8A-1