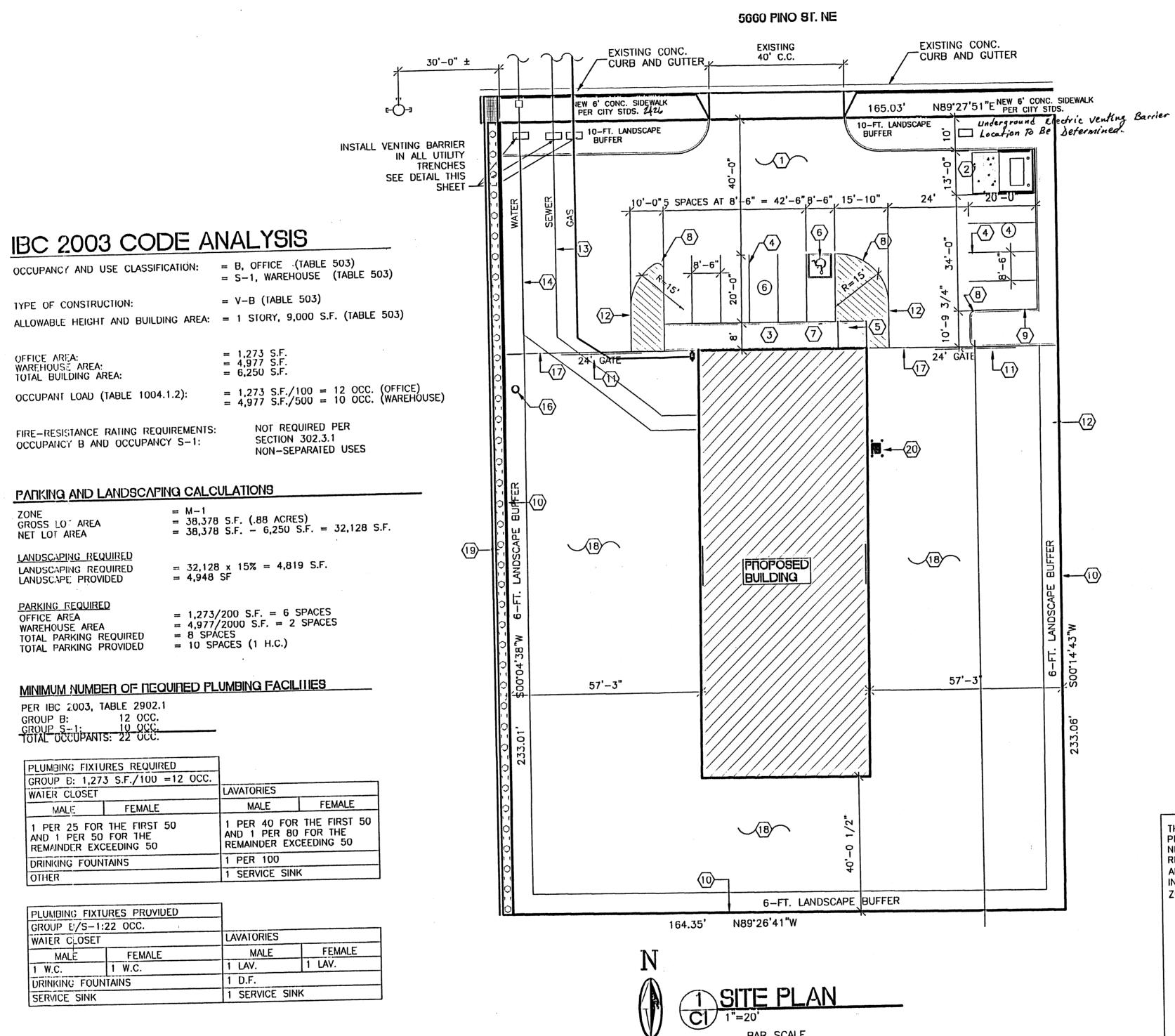
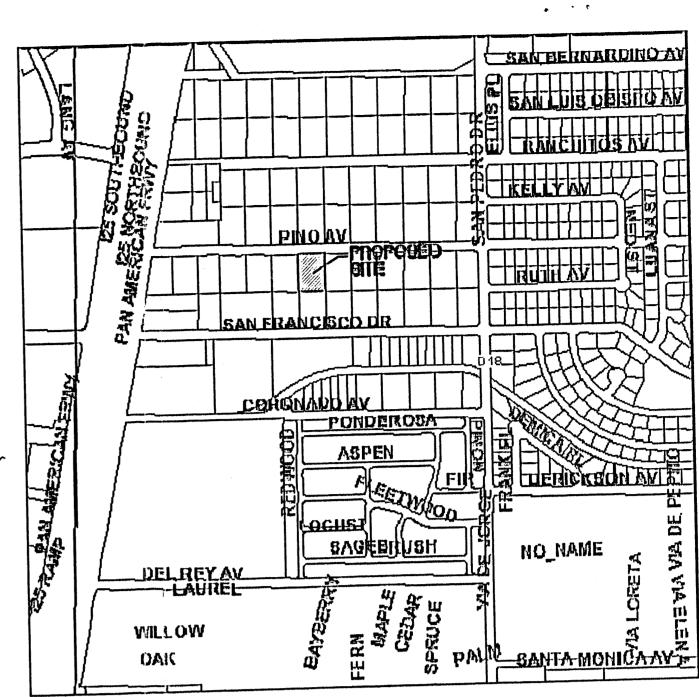
Landfill Gas Survey Site: Proposed Office/Warehouse Building N 5660 Pino Avenue, Albuquerque, NM

Client: Newt & Butch's Rooling V&A Project No. 05-1-012





ALVA L. WILSON AND MARTHA K. WILSON
LOT 10, BLOCK 5
TRACT A - UNIT A
NORTH ALBUQUERQUE ACRES
ALBUQUERQUE, BETINALLUO COUNTY, NEW MEXCIO



LOCATION MAP ZONE ATLAS MAP NO. D-18-Z

KEYED NOTES	
1. 3" ASPHALT PAVING OVER 4" BASE COURSE. 2. DUMPSTER ON CONC. PAD, SEE DET. 1/C2. 3. 6' CONCRETE SIDEWALK, SEE DET. 3/C2. 4. PAINTED PARKING STRIPES PER CITY OF ALBO. 5. H.C. ACCESSIBLE RAMP W/ PAINTED STRIPES, SE 6. PAINTED H.C. ACCESIBLE SYMBOL. 7. H.C. PARKING SIGNAGE, SEE DET. 5/C2.	E DET. 8/C2.

SIGNATURE

7. H.C. PARKING SIGNAGE, SEE DET. 5/C2.

8. 2' RADIUS TYPICAL.
9. 6" CONC. CURB. SEE DET. 2/C2.

10. EXISTING 6' HIGH CHAINLINK FENCE.
11. NEW 6' HIGH CHAINLINK FENCE W/ 24' GATE.
12. PAINTED STRIPES PER CITY OF ALBQ.
13. 4" SEWER LINE.
14. 1 1/2" WATER LINE.
15. 1 1/4" GAS LINE.
16. EXISTING POWER POLE. (F.V.)
17. EDGE OF ASPHALT PAVING.
18. GRAVEL GROUND COVER.
19. EXIST. 3' RIP RAP.
20. MECHANICAL UNIT W/ 4" PIPE BOLLARDS.

TRAFFIC CIRCULATION APPROVED	LAYOUT
Tiff Say	4-20-05 Date

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					
LANDFILL GAS ASSESSMENT PERFORMED BY VINYARD & ASSOCIATES, ALBUQUERQUE, NM					
DATE					
JOB NUMBER					
DATE					

Y OF ALBUQUERQUE VIRONMENTAL HEALTH DEPARTMENT	
GNATURE	DATE DATE
	D) NOV 2 8 2005 HYDROLOGY SECTION
	HYDROLOGI GEO

STRE!

REVISION DATE

DATE

12-14-04

SHEET NUMBER

DRAINAGE CALCULATIONS:

EXISTING CONDITIONS:

The site is located on Lot 10, Block 5, Tract A, Unit A, North Albuquerque Acres. The site is on the South side of Pino Avenue, NE which is paved with standard curb and gutter. The lot directly to the West, Lot 9, is developed and has a drainage plan on file, Project D18 / D45. Lot 9 is developed with drainage channels on the East and West boundaries. The channel on the East boundary is for the purpose of intercepting off-site flow, the majority of which is generated on Lot 10.

PROPOSED CONDITIONS:

It is proposed to construct a metal building, asphalt paving and landscaping on the site as shown. It is proposed to discharge all site drainage into the drainage channel along the east side of Lot 9. The two lots have the same owner. The previous drainage plan shows that the channel was designed to carry a flow from Lots 10 & 11 of 8.1 cfs, assuming both lots are fully developed at 10% Treatment B and 90% Treatment D. (See OFF-SITE CHANNEL, Worksheet for Rectangular Channel)

DRAINAGE CRITERIA:

The calculations shown on this plan were prepared in accordance with Section 22.2, Hydrology, of the Development Process Manual, Volume 2, Design Criteria, forthe City of Albuquerque in cooperation with Bernalillo County, New Mexico and the Metropolitan Arroyo Flood Control Authority, January, 1993.

PRECIPITATION ZONE:

The site is between the Rio Grande River and San Mateo Blvd. and is, therefore, in Precipitation Zone 2.

LAND TREATMENT AREAS, ETC.:

The peak discharge per acre and excess precipitation are shown for the four land treatments in Zone 2 in the table below, and the values shown are from the City of Albuquerque D. P. M. Also shown are the existing and proposed land treatment areas.										
									oped Site Sq.Ft.	
	1. 56	•	0. 53	-		0			0	0. 0000
В	2, 28	0. 95	0. 78	0. 28	0. 0	0	0. 0000	8. 7	3, 334	0. 0765
С	3. 14	1. 71	1. 13	0. 52	100.0	38, 377	0. 8810	4 7. 9	18, 398	0. 4224
D	4. 70	3. 14	2. 12	1. 34	0. 0	0	0. 0000	43. 4	16, 645	0. 3821
Totals	;				100. 0	38, 377	0. 8810	100.0	38, 377	0. 8810

PEAK DISCHARGE:

EXISTING CONDITIONS:

Q100 = 0.8810 * 3.14 = 2.77 cfsQ10 = 0.8810 * 1.71 = 1.51 cfs

DEVELOPED CONDITIONS:

Q100 = 0.0765 * 2.28 + 0.4224 * 3.14 + 0.3821 * 4.70 = 3.30 cfs010 = 0.0765 * 0.95 + 0.4224 * 1.71 + 0.3821 * 3.14 = 1.99 cfs

VOLUME, 100-YEAR AND 10-YEAR, 6-HOUR:

EXISTING CONDITIONS:

V100 = (38.377 * 1.13) / 12 = 3.614 cf V10 = (38, 377 * 0.52) / 12 = 1,663 cf

DEVELOPED CONDITIONS:

V100 = (3,334 * 0.78 + 18,398 * 1.13 + 16,645 * 2.12)/12 = 4,890 cf $V10 = (3,334 \times 0.28 + 18,398 * 0.52 + 16,645 * 1.34)/12 = 2,734 cf$

SUMMARY OF ON-SITE VOLUMES AND DISCH. RATES:

	V100(CF)	V10(CF)	Q100(CFS)	Q10(CFS)
DEVELOPED	4,890	2,740	3. 30	1. 99
EXISTING	3,614	1,663	2. 77	1. 51
INCREASE	1,276	1,077	0. 53	0. 48

OFF-SITE FLOW:

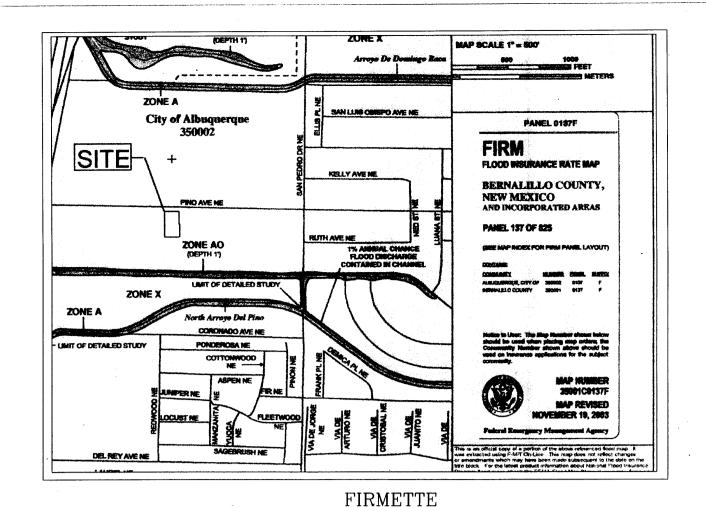
There is no possibility of off-site flow from the South because there is a berm in that area. The lot to the East will generate off-site flow as discussed above. The lot is undeveloped and is the same size as the site. Therefore, the runoff generated would be the same as the undeveloped runoff for this site. Q = 2.77 cfs

EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONPLIANCE WITH THE FOLLOWING: NO SEDIMENT-BEARING WATER SHALL BE ALLOWED TO DISCHARGE FROM THE SITE
- DURING CONSTRUCTION. 2. DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED, ALL ADJACENT PROPERTY, RIGHTS-OF-WAY, AND EASEMENTS SHALL BE PROTECTED FROM FLOODING BY RUNOFF FROM THE SITE.
- SHOULD THE CONTRACTOR FAIL TO PREVENT SEDIMENT-BEARING WATER FROM ENTER-ING PUBLIC RIGHT-DF-WAY, HE SHALL PROMPLTY REMOVE FROM THE PUBLIC RIGHT-OF-WAY ANY AND ALL SEDIMENT ORIGINATING FROM THE SITE.

The Distinguish

CONTROL OF SEDIMENT-LADEN WATERS WILL BE ACCOMPLISHED BY USE OF A COM-PACTED EARTH BERM OF ADEQUATE HEIGHT. THE BERM SHALL BE LOCATED ALONG THE DOWNSTREAM PERIMETER OF THE PROPERTY.



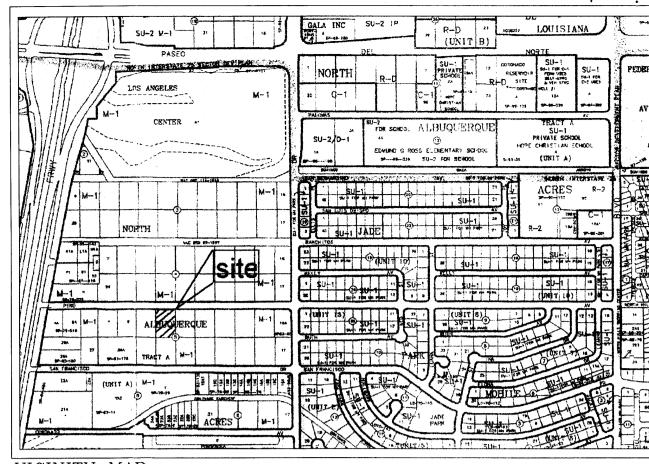
140' (APPROX.)

- PROJECT TEMPORARY BENCH MARK (TBM)

I, FRANK D. LOVELADY, NMPE 6512 OF THE FIRM FRANK D. LOVELADY P.E. HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND PAVED IN SUBSTANTIAL COMPLINACE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE THE APPROVED PLAN DATED 10-25-2004. THE RECORD INFORMATION EDITED ONTO THE DRIGINAL DESIGN DOCUMENT HAS BEEN OBAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING

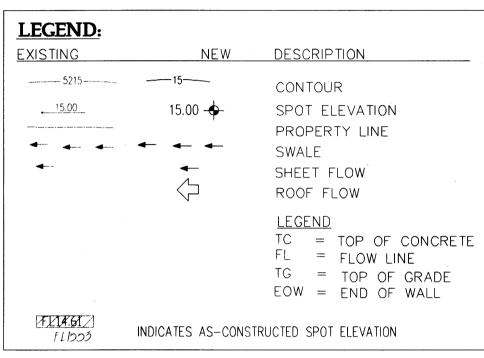
DRAINAGE CERTIFICATION WITH VERFICATION BY ENGINEER OF RECORD





VICINITY MAP

ZONE ATLAS NO. D-18-Z



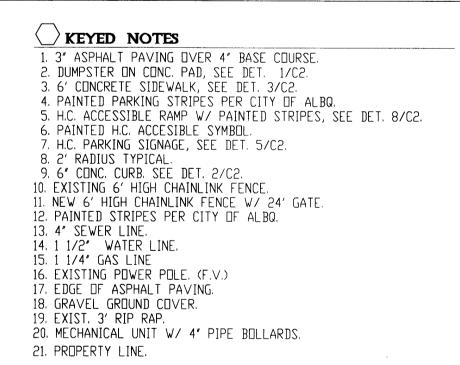
LOT 10, BLOCK 5, TRACT A, UNIT A, NORTH ALBUQUERQUE ACRES. 5660 PINO AVENUE N.E.

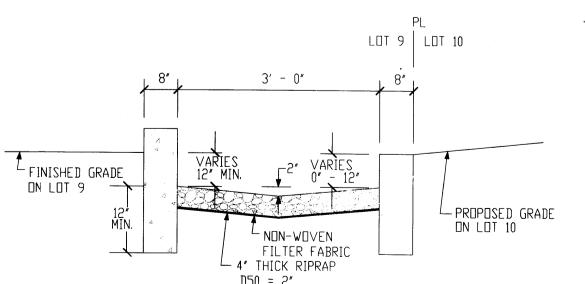
1: CONTOUR INTERVAL IS ONE (1) FOOT.

2: ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "19-D18". HAVING AN ELEVATION OF <u>5238.009</u> .

3: UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED UNLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR

5: THIS IS <u>NOT</u> A BOUNDARY SURVEY BEARINGS AND DISTANCES SHOWN





EXISTING TYPE "B" CHANNEL DETAIL:

(AS SHOWN ON DI8/D45)



W 14 3/10/ ANCH

AREHOUSE

OFFICE/W

VENUE

PIN

JOB NO: DATE: 11/17/ 2005 REVISIONS LENGTHENED BLDG. BY 2

SHEET NO.

CHISELED "X" IN TOP CURB ELEVATION 5214.67 NOTE: THIS TEMPORARY BENCH MARK 60' \$660 PINO ST. NE WAS SET FOR THE DEVELOPMENT OF LOT 9, (PROJECT D-18 / D-45) — EXISTING 2 - 24" SIDEWALK CULVERTS AS SHOWN ON DI8/DASTING CONC EXISTING CONC LEGAL DESCRIPTION TELEPHONE BOX D-FI. LANDSCAPEI6.46 \FP=17.59 INSTALL VENTING > BARRETERAS SCALE: 1" = 20EC=12.94 IN AKL FUTALTY
GT=12.84 TRENCHES ALBUQUERQUE, NEW MEXICO SEE DETAIL THIS LOT 9 LOT 11 **GENERAL NOTES:** EXIST. TYPE "B" CHANNEL-(CAC SHOWN ON D18/D45) DESIGN CONSIDERATIONS. EDW=13.97 TDC=13.48 - REMOVE CONCRETE WALK HEREON ARE FOR REFERENCE ONLY. TO PROPERTY LINE. CP=14.50 SAN LUIS OBISPO AV G=13.95 OFF-SITE FLOW G=17.55 2.77 cfs as sheet flow. RANCHITOS AV REMOVE-FIN.FLR=13.87 SITE KELLY AV G=14.12- STATION 19-D18 RUTH AV SAN FRANCISCO DR EDW=14.25 TDC=13.74 **CORONADO AV** ReDraw Screen Geodetic Control Legend EDW=14.05 TDC=13.65 Public Land Control Public Land Control (Horiz&Vert) G=16.69 G=13.48 EOW=14.12 6-FT. LANDSCAPE BUFFER \G=14.88 64.35' N89 206 4514 W D50 = 2" EDW=14.17/ NO OFF-SITE FLOW

