



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION



HYDROLOGY SECTION PROJ. NO. J-11 DATE: 1/31/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Volcano Plaza Day Care Center

WHO	REPRESENTING
ATTENDANCE: <u>Dan Alonzo</u>	_____
<u>Billy Goolsby</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

FINDINGS: ① Drainage Plan per DPM
New submittal - Area excluded from
Master Plan.
② Impervious area free discharge
if less than 1 cfs if more than
controlled discharge to be provided.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: <u>Billy Goolsby</u>	SIGNED: <u>Dan Alonzo</u>
TITLE: <u>CE/Hydrology</u>	TITLE: <u>CE</u>
DATE: <u>1/31/84</u>	DATE: <u>1/31/84</u>

INFORMATION SHEET

PROJECT TITLE Volcano Day Care Center TYPE OF SUBMITTAL Drainage (Bldg. Pmt)

ZONE ATLAS PAGE NO. J-11 CITY ADDRESS 640 coors

LEGAL DESCRIPTION Portion lot 4 & lot 5 Northern Heights subd. section 13, T-10-N, R-2-E Bern

ENGINEERING FIRM DMA CONTACT Jake Bordway

ADDRESS _____ PHONE _____

OWNER Pete Ford CONTACT Don Johnson

ADDRESS 2906 Broadway NE PHONE 345-8591

ARCHITECT Claudio A. Vigil CONTACT fernando

ADDRESS _____ PHONE _____

SURVEYOR DMA CONTACT Jake

ADDRESS _____ PHONE _____

CONTRACTOR Jaynes corp. CONTACT Don Johnson

ADDRESS _____ PHONE 345-8591

PRE-DESIGN MEETING:

- ☒ YES
☐ NO
☐ COPY OF CONFERENCE RECAP SHEET PROVIDED

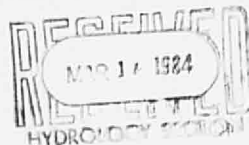
J11-D20

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ SITE DEVELOPMENT PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ ROUGH GRADING PERMIT APPROVAL
☐ GRADING/PAVING PERMIT APPROVAL
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3/14/84

BY: Don Johnson





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

FILE COPY

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

March 21, 1984

Mr. Jake Bordenave
DHJM/Adam, Hamlyn, Anderson
4055 Montgomery Boulevard NE Suite A
Albuquerque, NM 87109

REF: GRADING AND DRAINAGE PLAN FOR VOLCANO PLAZA DAY CARE CENTER (J11-D20)
RECEIVED MARCH 14, 1984

Dear Jake:

The above referenced plan, dated February 15, 1984, is hereby approved.

Please attach a copy of this plan along with the approved "Construction Within Public R/W" document to the construction set prior to issuance of the building permit.

If I can be of further assistance, please contact me at 766-7644.

Yours truly,

Billy J. Goolsby, PE
City/County Flood Plain Admin.

BJG:mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

INFORMATION SHEET

PROJECT TITLE Volcano Plaza Day Care Ctr. TYPE OF SUBMITTAL Drainage Plan

ZONE ATLAS PAGE NO. J-11 CITY ADDRESS Volcano Plaza, Albuquerque, NM

LEGAL DESCRIPTION Portion of Lot A & Lot B, Northern Heights Subdivision, Section 13,

T-10-N, R-2-G, NMPM, Bernalillo County, New Mexico

ENGINEERING FIRM DMJM/Adam, Hamlyn, Anderson CONTACT Jean J. Bordenave

ADDRESS 4055 Montgomery Blvd. NE PHONE 881-1808

OWNER -- CONTACT

ADDRESS PHONE

ARCHITECT Claudio Antonio Vigil CONTACT Claudio Antonio Vigil

323 Romero NW, Suite 9

ADDRESS Albuq. NM PHONE 247 1000

SURVEYOR CONTACT

ADDRESS PHONE

CONTRACTOR CONTACT

ADDRESS PHONE

PRE-DESIGN MEETING:

YES

NO

COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- SITE DEVELOPMENT PLAN APPROVAL
- FINAL PLAT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- ROUGH GRADING PERMIT APPROVAL
- GRADING/PAVING PERMIT APPROVAL
- X OTHER Drainage & Grading (SPECIFY)

DATE SUBMITTED:

BY:

DMJM/AHA ALBUQUERQUE SUBJECT	PROJECT DAY CARE CENTER DRAINAGE COMPS.	PROJECT NO. 4653-01-01	PAGE 1 of 9
		BY: D.A.	DATE: 3-13-84

ONSITE DRAINAGE

Total Drainage Area Contributing = 24,138 SF

Finding Composite "C" factor:

Description	Area	Factor	A x F
Roof/Bldg.	4648 SF	0.95	4416
Enc. Slab/SW	2082 SF	1.00	2082
Asphalt Pmt	9776 SF	0.95	9287
Landscaping/Play Area	7632 SF	0.40	3052
	<u>24,138 SF</u>		<u>18837 SF</u>

"C" Composite = $\frac{18837}{24138} = 0.78$; $I = 4.65$

$Q_{in} = CIA = 0.78 \times 4.65 \times 24138 / 43560 = 2.0 \text{ cfs}$

Pond Volume Required = $2.2 \times 18837 / 12 = 3453 \text{ CF}$

Inflow Volume = $3453 / 2.2 \times \text{Rainfall} = 1570 \times \text{Rainfall}$

POND CHARACTERISTICS

Elev.	Area	Volume	Comm. Vol.
95.0	16	0	0
95.5	650	167	167
96.0	2400	763	930
96.2	3600	600	1530

Available Pond Volume = 1530 CF < 3453 CF Required
Portion of the proposed parking lot on Estancia & Fortuna will be flooded. Two- 4" pipes are proposed to be constructed from the parking lot to Estancia St. and the 20' driveway will act as a weir, in case of overflow.

THERE IS NO OFFSITE DRAINAGE CONTRIBUTION TO AREA OF IMPROVEMENT.
The proposed improvement do not lie in a Flood Hazard Zone Area but controlled discharge is provided per City policy. (see attached Flood Map)

PROJECT: VOLCANO/DAY CARE
DATE: 2/1/84

EFFECTIVE AREA 18837 SQ.FT.
TOTAL RAINFALL 2.20 INCHES

STORAGE BASIN

ELEV	AREA SQ.FT.	VOLUME CU.FT.
95.00	16	0
95.50	650	166
96.00	2400	929
96.20	3600	1529

INFILTRATION 1ST HALF HOUR = 0.00 IN./HR.
INFILTRATION 2ND HALF HOUR = 0.00 IN./HR.
INFILTRATION AFTER 1 HOUR = 0.00 IN./HR.

OUTLET INFORMATION:

ROUND ORIFICE

DIAMETER INCHES	INVERT ELEV.
4.0	95.00
4.0	95.00

WIER

LENGTH FEET	INVERT ELEV.
20.00	96.20

TIME	RAINFALL	ACCUM.	POND	AVG.	ACCUM.	STORAGE
MIN.	INCHES	CUBIC	ELEV.	POND	OUTFLOW	
-----	-----	FEET	-----	ELEV.	-----	-----
-----	-----	FEET	-----	-----	CUBIC	CUBIC
-----	-----	FEET	-----	-----	FEET	FEET
0	0.000	0	95.000	95.000	0	0
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.193 CFS		58 CU.FT.		
	WIER FLOW	0.000 CFS		0 CU.FT.		
5	0.125	196	95.455	95.227	58	138
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.499 CFS		149 CU.FT.		
	WIER FLOW	0.000 CFS		0 CU.FT.		
10	0.281	442	95.584	95.520	208	234
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.620 CFS		186 CU.FT.		
	WIER FLOW	0.000 CFS		0 CU.FT.		
15	0.624	980	95.838	95.711	394	586
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.738 CFS		221 CU.FT.		
	WIER FLOW	0.000 CFS		0 CU.FT.		
20	1.045	1640	96.038	95.938	615	1025
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.785 CFS		235 CU.FT.		
	WIER FLOW	0.000 CFS		0 CU.FT.		
25	1.203	1889	96.043	96.040	851	1038
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.781 CFS		234 CU.FT.		
	WIER FLOW	0.000 CFS		0 CU.FT.		
30	1.315	2065	96.020	96.031	1085	979
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.762 CFS		457 CU.FT.		
	WIER FLOW	0.000 CFS		0 CU.FT.		
40	1.513	2375	95.958	95.989	1543	832
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.729 CFS		437 CU.FT.		
	WIER FLOW	0.000 CFS		0 CU.FT.		
50	1.689	2652	95.882	95.920	1981	671

			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.692 CFS	415 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
60	1.865	2928	95.807	95.845	2396	532
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.498 CFS	598 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
80	1.931	3032	95.229	95.518	2994	37
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.098 CFS	118 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
100	1.986	3118	95.081	95.155	3112	5
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.052 CFS	62 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
120	2.032	3190	95.140	95.110	3175	14
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.049 CFS	89 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
150	2.083	3270	95.075	95.107	3265	4
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.028 CFS	51 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
180	2.116	3322	95.085	95.080	3316	6
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.024 CFS	43 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
210	2.142	3363	95.062	95.074	3359	3
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.017 CFS	31 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
240	2.162	3394	95.063	95.062	3391	3
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.013 CFS	49 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
300	2.193	3443	95.047	95.055	3441	2
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.003 CFS	11 CU.FT.	
			WIER FLOW	0.000 CFS	0 CU.FT.	
360	2.200	3453	95.006	95.026	3452	0

MAXIMUM OUT FLOW IS AT POND ELEV. 96.043
ORIFICE OUTFLOW IS 0.786 CFS
WIER OUTFLOW IS 0.000 CFS



NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY
FLOOD BOUNDARY AND
FLOODWAY MAP

CITY OF
ALBUQUERQUE,
NEW MEXICO
BERNALILLO COUNTY

PANEL 27 OF 50

COMMUNITY-PANEL NUMBER

350002 0027

EFFECTIVE DATE:

OCTOBER 14, 1983



Federal Emergency Management Agency



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION



HYDROLOGY SECTION PROJ. NO. J-11 DATE: 1/31/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Valcano Plaza Day Care Center

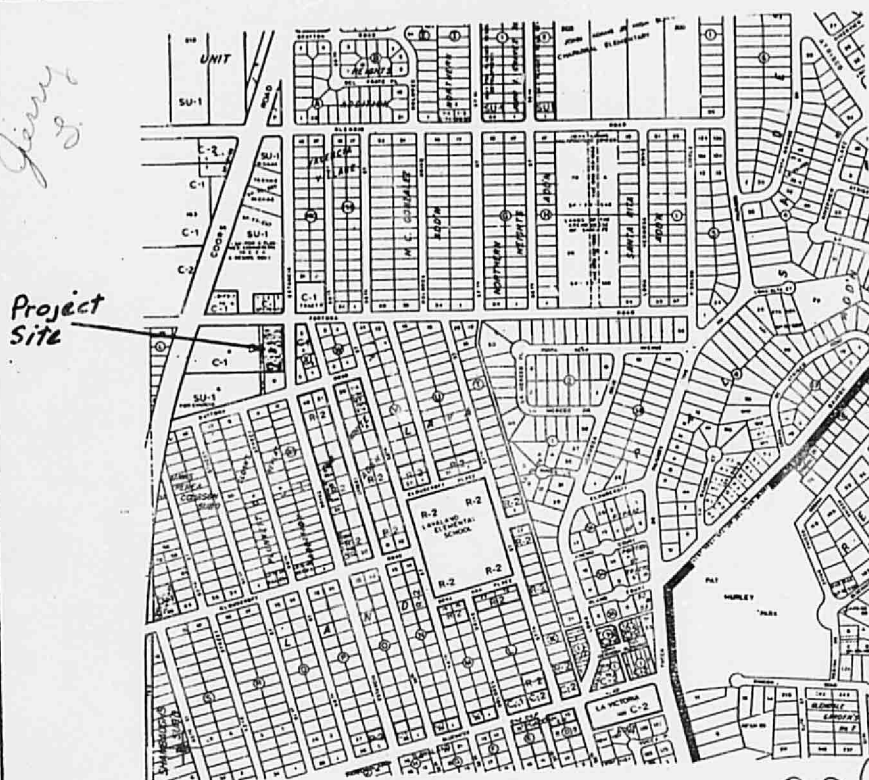
WHO	REPRESENTING
ATTENDANCE: <u>Dave Alonzo</u>	_____
<u>Billy Goolsby</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

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TITLE: <u>CE/Hydrology</u>	TITLE: <u>CE</u>
DATE: <u>1/31/84</u>	DATE: <u>1/31/84</u>

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



VICINITY MAP (J-II)

NOTICE TO CONTRACTOR

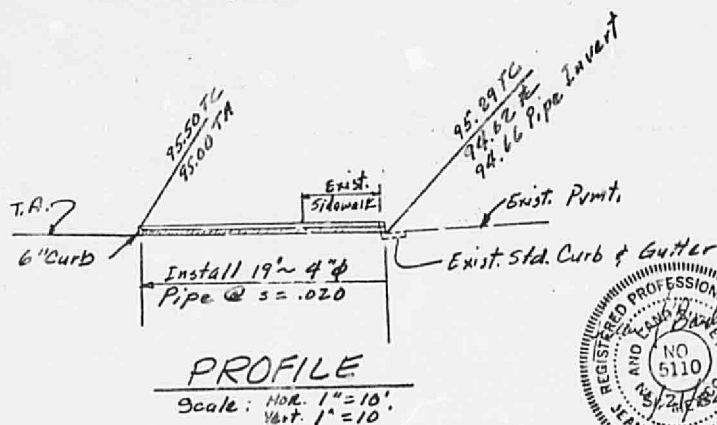
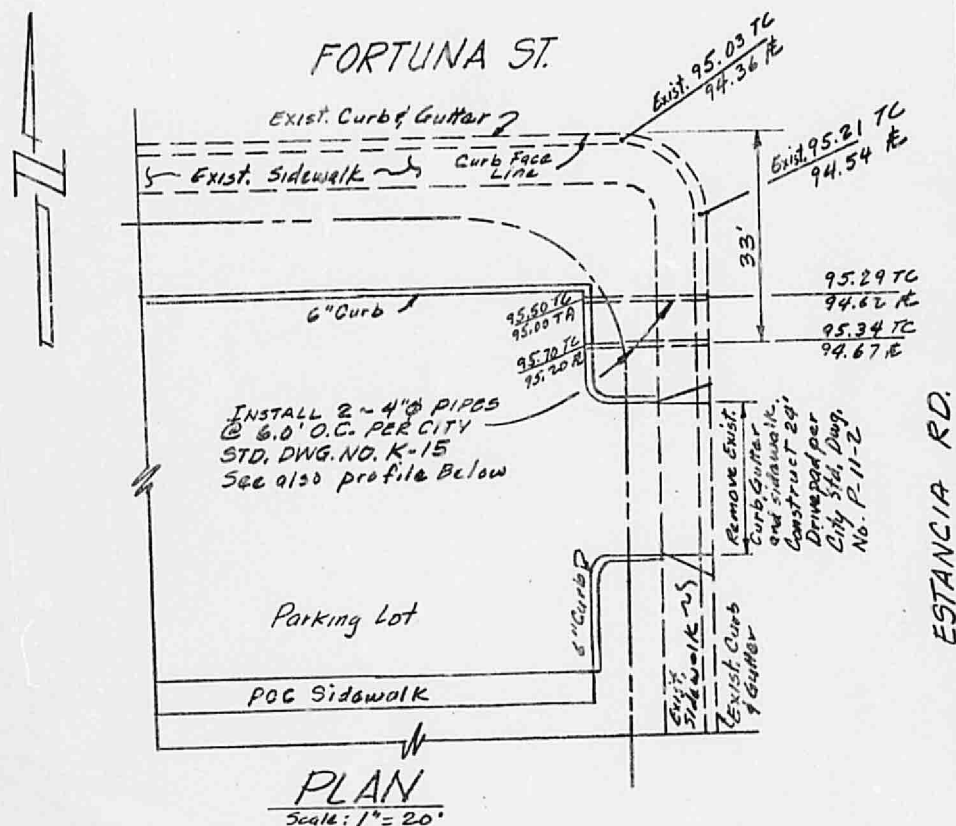


1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with "Public Works Contract No. 84-1".
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
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 so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to RESIDENTIAL street use.

P-11323 Jaynes Corp		D-48	
APPROVALS	NAME	DATE	TITLE: 640 COORS RD. NW VOLCANO PLAZA DAY CARE CENTER
A.C.E./DESIGN	J. K. Kellie	21 Mar 84	
INSPECTOR	Jerry L.	4-17-84	
A.C.E./FIELD	W. J. Kaman	4-17-84	
PERMIT NO. SHEET 1 OF 2			MAP NO. J-II

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



P-11323 James Corp.		D-48	
APPROVALS	NAME	DATE	TITLE: 640 COORS RD. NW VOLCANO PLAZA DAY CARE CENTER
A.C.E./DESIGN	<i>[Signature]</i>	21 Mar 84	
INSPECTOR	<i>[Signature]</i>	4-17-84	
A.C.E./FIELD	<i>[Signature]</i>	4-17-84	
PERMIT NO. SHEET 2 OF 2			MAP NO. J-11