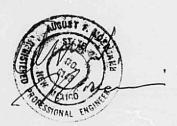
DRAINAGE	INFORMATION	SHEET

PROJECT TITLE: Gonzales Office Building	ZONE ATLAS / DRNG FILE: H-19 033
LEGAL DESCRIPTION: Lot 4, Block 2, Inez Addi	tion
CITY ADDRESS: 7814 MENAUL	
ENGINEERING FIRM: Engineering Associates	CONTACT: Tucker Green
ADDRESS: 532 Adams NE 87102	PHONE: 365-6545
OWNER: George Gonzales	CONTACT: George Gonzales
ADDRESS: 7009 Prospect NE	PHONE: 883-6440
ARCHITECT.	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: Boundary: Denney-Gross & Assoc. Topo: Engineering Associates	PHONE: 884-0696 PHONE: 265-6545 (see above)
CONTRACTOR: Tony Peres	CONTACT: Tony Perea
ADDRESS:	PHONE: 895-5166
PREDESIGN MEETING:  AUG 16 1985  -X_YES -NO -X_COPY OF CONFERENCE RECHY GROUP OF SECTION	ORB NO.
TYPE OF SUBMITTAL: DRAINAGE REPURTX_DRAINAGE PLANCONCEPTUAL GRADING & DRAINAGE PLANX_GRADING PLANEROSION CONTROL PLANENGINEER'S CERTIFICATION	CHECK TYPE OF APPROVAL SOUGHT:  SKETCH PLAT  PRELIMINARY PLAT  SITE DEVELOPMENT PLAN  FINAL PLAT APPROVAL  X_BUILDING PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY  ROUGH GRADING PERMIT  GRADING/PAVING PERMIT  OTHER (SPECIFY)
DATE SUBMITTED: 8/16/85	

BY: August Mosiman





### City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

August 22, 1985

Mr. August Mosimann Engineering Associates 532 Adams NE Albuquerque, NM 87102

REF: GONZALES OFFICE BUILDING (H19-D33) RECEIVED AUC 3, 16, 1905

Dear Mr. Mosimann:

A preliminary review of your submittal for Building Permit approval has shown that the following information is lacking for this section to begin the review process:

#### Information Needed:

- Given the existing conditions the existing CMU wall capturing the off-site flows and routing them along the wall towards the west. You are improving the situation by routing the development runoff towards Menaul. Therefore, redesign for permissible flows on the rear portion.
- 2. You are not allowed to pond the off-site flows in the rear yard, just let them continue to their historical pattern.

#### Plan Drawing:

1. You may want to verify the finish floor elevation on the existing building, seems kind of high compared to the existing con-

Please provide this information so that we may process your request as expediently as possible.

Cala A Monty -

BJM:mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

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

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER -

#### VISED DRAINAGE INFORMATION SHEET ATTENTION: BERNIE MONTOYA

PROJECT TITLE: Gonzales Office Building ZONE ATLAS / DRNG FILE: H-19-33 LEGAL DESCRIPTION: Lot 4, Block 2, Inc. Addition CITY ADDRESS: 7814 Menaul NE CONTACT: Tucker Green ENGINEERING FIRM: Engineering Associates ADDRESS: 532 Adams NE 87102 PHONE: 865-6545 OWNER: George Gonzales CONTACT: George Gonzales PHONE: 883-6440 ADDRESS: 7009 Prospect NE CONTACT: \_\_\_\_ ARCHITECT: PHONE: \_\_\_\_ ADDRESS: \_\_\_ SURVEYOR: Boundary: Denney-Gross & Assoc. PHONE: 884-0696 Topo: Engineering Associates PHONE: 265-6545 (see above) CONTRACTOR: Tony Perea CONTACT: Tony Perea PHONE: 895-5166 ADDRESS: \_\_\_ PREDESIGN MEETING: \_X\_YES DRB NO. HYDROLOGY SECTION EPC NO. NO \_X\_COPY OF CONFERENCE RECAP SHEET PROJ. NO. PROVIDED CHECK TYPE OF APPROVAL SOUGHT: TYPE OF SUBMITTAL: \_\_\_SKETCH PLAT DRAINAGE REPORT \_X\_DRAINAGE PLAN PRELIMINARY PLAT CONCEPTUAL GRADING & DRAINAGE PLAN SITE DEVELOPMENT PLAN \_X\_GRADING PLAN FINAL PLAT APPROVAL \_\_\_EROSION CONTROL PLAN \_X\_BUILDING PERMIT APPROVAL \_CERTIFICATE OF OCCUPANCY \_\_ENGINEER'S CERTIFICATION ROUGH GRADING PERMIT GRADING/PAVING PERMIT OTHER (SPECIFY)

DATE SUBMITTED: 3/27/85

BY: August Mosiman



# City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

October 2, 1985

Mr. August Mosimann Engineering Associates 523 Adams NE Albuquerque, NM 87102

REVISED DRAINAGE PLAN FOR GONZALES OFFICE BUILDING (H19-D33) ENGINEER'S STAMP DATED 8/27/85

Dear Mr. Mosimann:

Based on the information provided on your August 27, 1985 resubmittal, the above referenced drainage plan is approved.

Please attach a cory of this approved drainage plan along with the appropriately approved copy of the "Drainage Facilities Within City R/W" document to the construction sets before Hydrology will sign-off.

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

Sincerely,

City/County Flood Plain Admin.

BJM/CAM/c1

MUNICIPAL DEVELOPMENT DEPARTMENT

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

**ENGINEERING DIVISION** 

Telephone (505) 766-7467

VISED DRAINAGE INFORMATION SHEE.

PROJECT TITLE: Gonzales Office Building	ZONE ATLAS/DRNG FILE: HIE DZ3
LEGAL DESCRIPTION: Lot 4, Block 2, Inez Addit	ion
CITY ADDRESS: 7814 Menaul NE	
ENGINEERING FIRM: Engineering Associates	CONTACT: Tucker Green
ADDRESS: 532 Adams NE 87102	PHONE: 865-6545
OWNER: George Gonzales	CONTACT: George Gonzales
ADDRESS: 7009 Prospect NE	PHONE: 883-6440
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: Boundary: Denney-Gross & Assoc. Topo: Engineering Associates	
CONTRACTOR: Tony Peres	CONTACT: Tony Perea
PREDESIGN MEETING: OCT 21 1985	PHONE: 895-5166
_X_YES	DRB NO. EPC NO. PROJ. NO.
TYPE OF SUBMITTAL: CHE	ECK TYPE OF APPROVAL SOUGHT: SKETCH PLATPRELIMINARY PLATSITE DEVELOPMENT PLANFINAL PLAT APPROVALX_BUILDING PERMIT APPROVALCERTIFICATE OF OCCUPANCYROUGH GRADING PERMITGRADING/PAVING PERMITOTHER (SPECIFY)
NOTE: T	

NOTE: In all major respects the drainage remains unchanged from the plan approved 10/2/85. However, in order to satisfy zoning requirements, it was necessary to move the building 5 feet closer to the street. This in turn required redesigning the landscaping near the building, so we enclose a landscape plan for your information. We hope that the minor nature of the changes will permit prompt approval.

DATE RESUBMITTED: 10/21/85

BY: August Mosimann

Argust IMoone



### City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

October 23, 1985

Mr. August Mosimann Engineering Associates 523 Adams NE Albuquerque, NM 87102

REF: REVISED DRAINAGE PLAN FOR GONZALES OFFICE BUILDING (H19-D33) REVISION DATE 10/21/85

Dear Mr. Mosimann:

Based on the information provided on your October 21, 1985 resubmittal, revisions as indicated are approved.

Please be advised that no alternations of the existing terrain on the southside of the building are allowed. The off-site flows must remain in their original state.

If I can be of further assistance, feel free to call me at 766-7644.

Sincerely,

Carlos A. Montoya

City/County Flood Plain Admin.

CAM/BJM/c1

MUNICIPAL DEVELOPMENT DEPARTMENT

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

**ENGINEERING DIVISION** 

Telephone (505) 766-7467

#### REVISE DRAINAGE INFORMATION SHEE

PROJECT TITLE: Gonzales Office Building	ZONE ATLAS/DRNG FILE: H-19 D33
LEGAL DESCRIPTION: Lot 4, /lock 2, Inez Ad	dition
CITY ADDRESS: 7814 Menaul NE	MEGGINGA
ENGINEERING FIRM: Engineering Associates	CUNTACT: THE CON NO. 22 1985
ADDRESS: 532 Adams NE 87102	PHONE: 865
OWNER: George Gonzales	HYDROLOGY SECTION CONTACT: George Gonzales
ADDRESS: 7009 Prospect NE	PHONE: 883-6440
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: Boundary: Denney-Gross & Assoc. Topo: Engineering Associates	PHONE: 884-0696 PHONE: 265-6545 (see above)
CONTRACTOR: Tony Perea	CONTACT: Tony Perea
ADDRESS:	PHONE: 895-5166
PREDESIGN MEETING: LOSRB	
_X_YESNO _X_COPY OF CONFERENCE RECAP SHEET PROVIDED	DRB NO. EPC NO. PROJ. NO.
TYPE OF SUBMITTAL:DRAINAGE REPORT _X_DRAINAGE PLAN _CONCEPTUAL GRADING & DRAINAGE PLAN _Y_GRADING PLAN _EROSIGN CONTROL PLAN _ENGINEER'S CERTIFICATION	CHECK TYPE OF APPROVAL SOUGHT: SKETCH PLAT PRELIMINARY PLAT SITE DEVELOPMENT PLAN FINAL PLAT APPROVAL X_BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY ROUGH GRADING PERMIT GRADING/PAVING PERMIT OTHER (SPECIFY)
NOTE: In all many manages the design	Annual Control of the

NOTE: In all major respects the drainage remains unchanged from the plan approved October 2, 1985. In the first revision after that, Zoning had us move the building 5 feet farther from the rear property line; I understand that revision was approved. This time traffic insists on perpendicular parking. The resulting changes do not affect the amount or the rate of runoff from the area affected. The swale leading to the approved sidewalk drain is changed slightly at its perimeter. We hope the minor nature of the changes will permit prompt approval.

DATE RESUBMITTED 11/20/85
BY August Mosimann



## City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

December 4, 1985

August Mosimann Engineering Associates 523 Adams, NE Albuquerque, New Mexico 87108

> RE: REVISED DRAINAGE PLAN FOR GONZALES OFFICE BUILDING RECEIVED NOVEMBER 22, 1985 (H-19/D33)

Dear Mr. Mosimann:

The referenced plan dated November 20, 1985, is approved for Building Permit sign-off by the Design Hydrology Section.

Please be advised that no alterations of the existing terrain on the south side of the building is allowed. The off-site flows must remain in their original state.

If you have any questions regarding this project, please call me at 766-7644.

Carlos A. Montoya, P.E.

City/County Floodplain Administrator

BJM:CAM/bsj

#### REVISED DRAINAGE REPORT for GONZALES OFFICE BUILDING

Lot 4, Block 2, Inez Addition Zone Map H-19 7814 Menaul Blvd. NE

#### PROJECT DESCRIPTION

The project is a  $55\times40$  foot office building on an 0.188 acre site on the south side of Menaul near Hoffmantown. It will contain 3 offices, one in a half-basement at the rear.

There are 11 lots on the south side of this block, each 70 wide by 117 deep. They are unusual in that the front 60 feet is zoned for parking only and that sweled paving has been in place for roughly 15 years even on the four undeveloped lots at the east end of the block. The edge of paving away from Menaul is typically a ridge line for these lots, with a two to three foot drop to the rear. The swale in the parking area is lower than the edge of the sidewalk and runoff flows westward to a storm sewer in Rhode Island Ave. This ir turn leads to a large storm sewer system near Indian School Road and foronado Center.

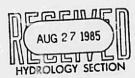
The seven western lots are developed, the four eastern are not. The project site is the one adjoining the developed lots, and thus is downstream of runoff from the other undeveloped sites.

Per telephone conversation with the City Engineer's office, the site is not in a flood hazard area.

#### PRE-DESIGN DISCUSSION

In the pre-design conference the the Hydrology Dept. required either that runoff from the site, even from the already paved portion, not drain in the established pattern in the existing paved swale OR that the owner obtain drainage easements or coveneants from each of the downstream property owners. It also required that the site accept offsite flows through the property. Finally it found that free discharge to Menaul would be acceptable.

At the time of the orginal submittal, we at Engineering Associates thought that the combination of pre-design conditions and existing topography required construction of storage and pumping facilities for handling offsite flow at the rear of the lot. Since then we have learned that this will not be a requirement, in part because the project represents an improvement on existing conditions. The difference in interpretation is the basis of this resubmittal. The plans have been ammended to reflect the appropriate changes, rather than being completely redrawn.



#### EXISTING CONDITIONS

1

The flow area is 8190 sq. ft. or 0.188 acres. The flow area is 51 % impervious The soil is Group B, Type EtC (SCS Soil Survey Sheet 3()) The "C" factor is 0.58 (DPM Pl. 22.2 C-1) The runoff Length L is 80 ft. The slope S is 2.2 % The time of concentration Tc is 0.0078\*(L^ $^{\circ}$ .77)/(\$\frac{1}{3}85) = 1.0 min (Use 10 minutes minimum to calculate I) The average velocity is L / (Tc × 60) = 1.33 ft/sec. (over paving) The 100-yr 6-hr precipitation amount AMT is 2.3 in (Pl 22.2 D\_1) The 100-yr intensity I is 2.114 × 2.3 = 4.86 in/hr (Pl 22.2 D\_2) The 100-yr flow rate is CIAc = 0.58 × 4.86 × 0.188 = 0.530 cfs. The 100-yr volume is 0.58 × 0.192 × 8190 = 912 cu. ft. The 10-yr values are 65.7 % of the 100-yr values for amount, intensity, rate, and volume. (Pl 22.2 D-1)

These calculations are slighly misleading, for they deal with the site as a whole, whereas it is actually in two parts, paved in front and 100 % pervious in back. The size of the site does not seem to warrant such refinement, and of course these conditions will be changed by this project.

#### OFFSITE FLOW

Offsite flow is also divided on the basis of origin - front and paved, or back and pervious. It is worth considering these separately since they will flow to different places. All the flow comes from three sites identical to the project site.

#### OFFSITE - FRONT & PAVED

The flow area is  $3\times70\times60=12600$  sq. ft. or 0.289 acres. The flow area is 100 % impervious The "C" factor is 0.95 The runoff Length L is 210 ft. The slope S is 2 % approx The time of concentration To is 0.0078\*(L^.77)/(S^.385) = 2.16 min (Use 10 minutes minimum to calculate I) The average velocity is L / (To  $\times$  50) = 1.82 ft/sec. (over paving) The 100-yr G-hr precipitation amount AMT is 2.3 in (P1 22.2 D\_1) The 100-yr flow rate is CIAc = 0.95  $\times$  4.86  $\times$  0.289 = 1.33 cfs. The 100-yr volume is 0.95  $\times$  0.192  $\times$  12600 = 2298 cu. ft. The 10-yr values are 55.7  $\times$  of the 100-yr values for amount, intensity, rate, and volume. (P1 22.2 D-1)

#### OFFSITE - REAR & UNPAVED

The flow area is  $3\times70\times57=11970$  sq. ft. or 0.275 acres. The flow area is 0% impervious The "C" factor is 0.34 (DPM Pl. 22.2 C-1) The runoff Length L is 210 ft. The slope S is 2 % approx The time of concentration Tc is 0.0078\*(L^.77)/(S^.385) = 2.16 min (Use 10 minutes minimum to calculate I) The average velocity is L / (Tc  $\times$  60) = 1.62 ft/sec The 100-yr 6-hr precipitation amount AMT is 2.3 in (Pl 22.2 D\_1) The 100-yr intensity I is 2.114  $\times$  2.3 = 4.86 in/hr (Pl 22.2 D\_2) The 100-yr flow rate is CIAc = 0.34  $\times$  4.86  $\times$  0.275 = 0.45 cfs. The 100-yr volume is 0.34  $\times$  0.192  $\times$  11970  $\times$  781 cu. ft. The 10-yr values are 65.7 % of the 100-yr values for amount, intensity, rate, and volume. (Pl 22.2 D-1)

#### PROFOSED CONDITIONS

Under proposed conditions the building and a paved area on the east side will flow to the front. A stairwell area on the west will have its rainfall pumped to the front. Rain falling on 700 sq ft of pervious easement at the rear of the site does not join the other flow and is not included in the calculations below.

The flow area is 7490 sq ft or 0.172 ecres.
The flow area is 94 % impervious
The soil is Group B, Type EtC (SCS Soil Survey Sheet 3;)
The "C" factor is 0..93 (DPM Pl. 22.2 C-1)
The runoff Length L is 120 ft.
The slope S is 2.2 %
The time of concentration Tc is 0.0078\*(L^.77)/(S^.385) = 1.35 min (Use 10 minutes minimum to calculate I)
The average velocity is L / (Tc × 60) = 1.48 ft/sec. (over paving)
The 100-yr 6-hr precipitation amount AMT is 2.3 in (Pl 22.2 D\_1)
The 100-yr intensity I is 2.114 × 2.3 = 4.86 in/hr (Pl 22.2 D\_2)
The 100-yr flow re is CIAc = 0.93 × 4.86 × 0.172 = 0.777 cfs.
The 100-yr volume is 0.93 × 0.192 × 7490 = 1337 cu. ft.
The 10-yr values are 65.7 % of the 100-yr values
for amount, intensity, rate, and volume. (Pl 22.2 D-1)

#### RUNOFF CONTROL

Most of the site drains to the parking lot and thence to the curb and gutter in Menaul, as shown on the plans. This includes all roof flow and flow from the paved area at the east of the building. The easement at the rear of the site will be graded slightly to ensure that rain not pond against the building and that the passage of offside flow not be blocked. The result is typically a fairly flat area a few feet away from the building and then a slight slope to match existing contours at the south and west property lines.

Rein falling on approximately 45 feet of sidewalk and stairwell at the west end of the building will be collected in a wet well and then pumped to the parking area. The well in which the pump sits can retain the expected 100-yr flow in the event of pump failure, and the pump specified has the capcity to empty that volume in less than 1 hour. The retaining wall at the end of the well is low enough to act as an overflow weir from the easement area in the event of the 100 year storm's being exceeded. All concrete joints in the wet well will be made with water stop and all surfaces exposed to possible standing water will be waterproofed with as asphaltic membrane. These measures will protect both the site and adjacent property.

The parking area will be regraded at the downstream end to divert a portion of the runoff out of the existing pavement swale into a side swale and thence to Menaul via a channel under the sidewalk. At its upstream end, with no spillover downstream, the sideswale will be adequate for 100-year flows generated on site, which is all that is required. Although grading for the side swale raises the flow line elevation just upstream of the west property line, and thereby reduces the flow section, there is still capacity for passing offite flows through without running over the sidewalk. See calculations in the appendix.

Just before entering the steeper slope under the sidewalk the swale capacity is adequate for combined offsite and onsite flows. To get that flow rate the water surface is almost as high as the elevation at the lowest corner of the lot, near the sidewalk at Menaul. At the same water surface elevation the flow in the modified main swale is it itself greater than the combined flow from on and off-site; clearly the balanced depth is somewhat less.

#### EROSION CONTROL

The plans direct the contractor to control erosion onto other property by careful stockpiling of dirt. Also he is to construct a temporary berm along the west property line approximately 20 feet. The top of berm shall be 1 foot above the existing grade at the southwest corner of the site.

The plans also direct him to control dust by watering exposed earth sufficiently, or by covering exposed earth, or by other approved and effective means.

END OF REPORT

APPENDIX



## CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

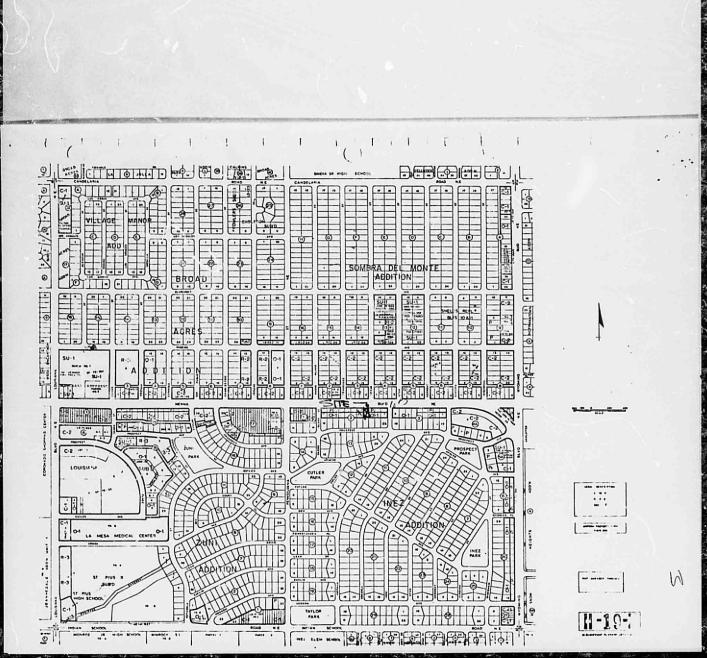
### PRE-DESIGN CONFERENCE RECAP

PLANNING DIVISION NOS. EPC:  SUBJECT: Office Builder (7002ales)  LEGAL DESCRIP.: Lot 4 Rlo 2 TNEZ  APPROVAL REQUESTED  PRELIMINARY PLAT  SITE DEVELOPMENT PLAN  ROUGH GRADING  WHO:  REPRESENTING:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPROVAL REQUESTED  PRELIMINARY PLAT SITE DEVELOPMENT PLAN  ROUGH GRADING  WHO:  REPRESENTING:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPROVAL REQUESTED  PRELIMINARY PLAT SITE DEVELOPMENT PLAN  ROUGH GRADING  WHO:  REPRESENTING:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPROVAL REQUESTED  PRELIMINARY PLAT  SITE DEVELOPMENT PLAN  ROUGH GRADING  WHO:  REPRESENTING:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PRELIMINARY PLAT  SITE DEVELOPMENT PLAN  ROUGH GRADING  WHO:  REPRESENTING:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PRELIMINARY PLAT  SITE DEVELOPMENT PLAN  ROUGH GRADING  WHO:  REPRESENTING:	A STATE OF THE STA
SITE DEVELOPMENT PLAN  ROUGH GRADING  WHO:  REPRESENTING:	A STATE OF THE STA
SITE DEVELOPMENT PLAN  ROUGH GRADING  WHO:  REPRESENTING:	The same of the same
ROUGH GRADING REPRESENTING:	图如图形之际图象
	The Alberta
ATTENDANCE: Tucker (5/100)	
Carlo Harris Andrews Carlo Harris Carlo Harr	
	Alexander Contraction
Conceptual Drainage Plan/Report required for Preliminary Plat Site Development Plan sign-off.  Approved Drainage Plan/Report required for Final Plat and/or ing Permit sign-off.	
Subdivision Improvements Agreement or Financial Security requ	ired.
FINDINGS: ODRANAGE PLAN PER DPM	<b></b>
SITE CANNOT MEAIN ACCLOSE DOWNSTR	Em
	CANNO
Block off-cito flows must accept through	plante
Dire dicharge to Alemant acceptable.	
The undersigned agrees that the above findings are summarized ac and are only subject to change if further investigation reveals the are not reasonable or that they are based on inaccurate information	at they
SIGNED: Color Mant SIGNED: Leall St	<b>\</b>
TITLE: (E EVER ASSE	· c
DATE: 6-11-85 DATE: 6-11-85	

\*\*NOTE\*\* PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

BY THE DATE DATE	The state of the s	SHEET NO OF A
engineering associa	ates, inc. • 532 Adams Street, NE • Albuque	erque, 14.1 87106 • (505) 265-6545
SITHIR WAY	D WEST SIDE OF BLD	
CAPACIN	SUPPLIED	
/2×3.	33x 9.33 = 36.25 a.Pt	
CADACIM KA	Eduinen	
	2 40 +5	
· WIPTH	= 3.23' + .67' = . 9' WHERE !	wover
RAIN	2,5"/SE PT @ 10047 642	
213 /	45×4= ,192×190= 34,56	uft 636.25 ox
- 50.71 Heav		
STATIC HEAD	- 46,67 = 8,581	
+35cm= 1	TOTAL RESISTING HEAD INC	. STATIC & PALCTION
Pump = H	YOROMARE PLUMP OSP33	SUBMERE BLE AUDINATIC
CAPOCITY	@ 20' HEAD = 30 GPM	
36.25	wit = 7.42 = 271,15 GAC	
271.	15/30 = 9,04 min.	
:. <10 +	WIND DRAIN STIRE	brueng

Commence of Street, St. Commence of Street, Co					
OATE	CLIENT / CL	<i></i>		08 NO. 28 Z	2
engineering associ					
5-10E: SWAZE	CAPACITY KAR	5= (4,2 15 N=1015	7-4.10)/2	18 = 100s	
3'	21 21 3/13 m1 = 3/13	9.37 > 0	13		
٧ = ١١٥	m1 = 3/113	= 23,0	m== 1	5.4	
	x = 1,08 cf				
Q on	sire,100 = 0	.te ds			
(2) pows s	7257 Just 4, 87, 27	PRIOR TOCKE	0 cipe	19200 CH	House C
(3) Assumo	FLOW SUL	REAM EN	4,46 =	MAY @	
	14.46 > 13	6 amon	13 S=10	٠.٠	
*		QUET +0.	N= 1.33+	0,78 =	211
(4) - As A	SOUZ, BUT DEE	TA= 0.331		•	
-		Querye V= 3.2 Frombo	= 211 ds	0.98	<del>r</del> Con
671	6=0151	TIK SLOPE	=0.02 ×		
20	w=0,21	# = 1.9	4		1
(6) along 5	437' CONTOUR N=01017,091	SACY S=	0.018 E	12 ds	@109
			Quesp-		6 000



CHKD EY\_\_\_\_\_DATE\_\_\_\_

SUBJECT OFFS TE FLOW

SHEET NO \_\_\_\_\_ OF\_\_\_\_\_

engineering associates, inc. • 532 Adams Street, NE • Albuquerque, NM 87106 • (505) 265-6545

EXISTING CONDITIONS
PROJECT SITE IS ADJACENT TO BUILDING SHOWN



