



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 10, 2001

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
10205 Snowflake Ct., NW
Albuquerque, NM 87114

RE: GRADING & DRAINAGE PLAN FOR LOT 58, ALAMEDA BUSINESS PARK (C-16/D006C) ENGINEER'S STAMP DATED DECEMBER 29, 2000, SUBMITTED FOR BUILDING PERMIT AND SO 19 APPROVALS

Dear Mr. Biazar,

Based upon the information provided in your December 29, 2000, submittal, the project, referred to above, is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

In addition, the submittal is approved for an SO 19 permit, which is required for construction within the city right-of-way.

Prior to release of the Certificate of Occupancy, an Engineer's Certification of the grading and drainage plan, per the DPM checklist, and a copy of the grading and drainage plan, with approval sign-off by the City's field inspector for the SO 19, will be required.

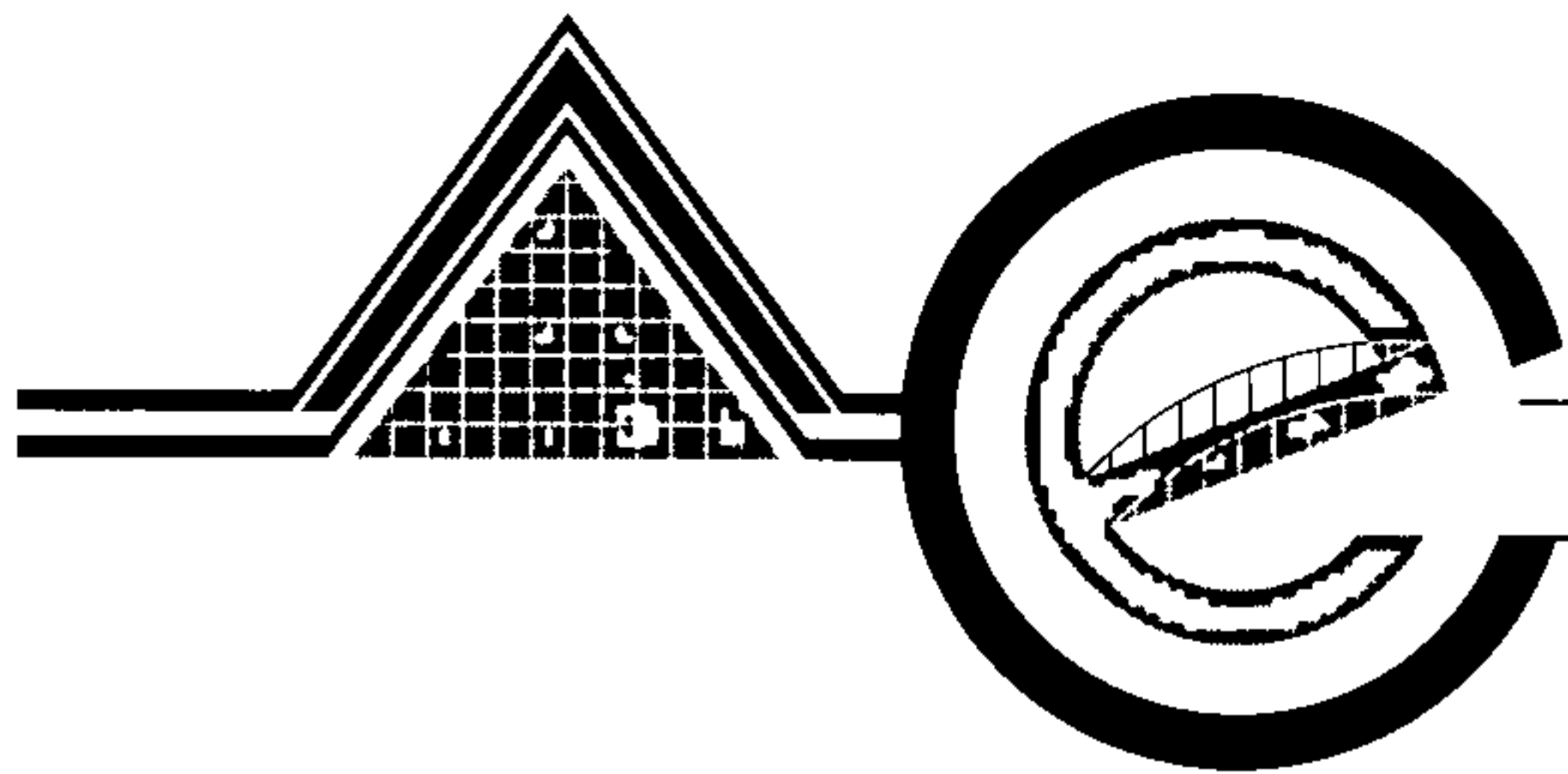
If you have any questions, please call me at 924-3988.

Sincerely,

Stuart Reeder, P.E.

Stuart Reeder, P.E.
Hydrology Division

xc: Pam Lujan, Permits w/attachment
Whitney Reiersen
✓File



ADVANCED ENGINEERING and CONSULTING, LLC

*Consulting
Design
Development
Management
Inspection*

December 29, 2000

Mr. Stuart Reeder, P.E.
City/County Floodplain Administrator
600 Second Street NW
Albuquerque, New Mexico 87102

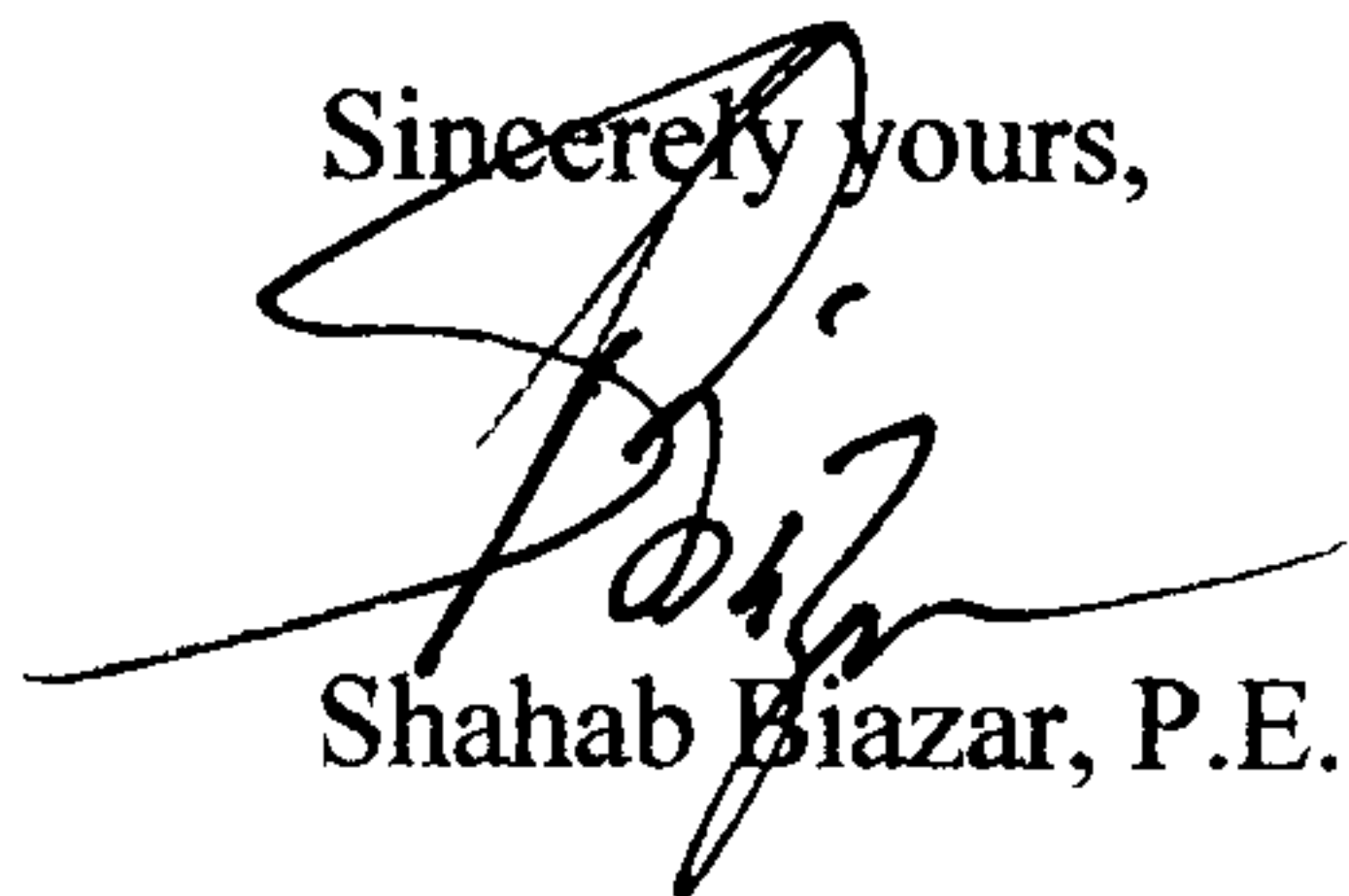
RE: SO-19 APPROVAL FOR REVISED GRADING/DRAINAGE PLAN FOR LOT 58,
ALAMEDA BUSINESS PARK (C-16 / D0060)

Dear Mr. Reeder:

This submittal is a request to obtain SO-19 approval on the above mentioned project. The contractor has built the grades higher than what is shown on the grading plan at the entrance of this project. Therefore, we are proposing to route the runoff to a 3' curb opening and then through the sidewalk culvert into the street.

Please contact me if there are any questions or concerns regarding this submittal.

Sincerely yours,



Shahab Biazar, P.E.

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Lot 58, Alameda Business Park ZONE ATLAS/DRNG. FILE #: C-16 / D006D C

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Lot 58, Alameda Business Park

CITY ADDRESS: _____

ENGINEERING FIRM: Advanced Engineering and Consulting, LLC CONTACT: Shahab Biazar (F) 897-4996

ADDRESS: 10205 Snowflake Ct. NW Alb., NM 87114 PHONE: (505) 899-5570

OWNER: Western Diversified, Inc. CONTACT: Gary Benett

ADDRESS: 9401 4th Street, NW, Alb., NM 87114 PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

_____ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION

_____ OTHER

PRE-DESIGN MEETING:

_____ YES

_____ NO

_____ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

_____ SKETCH PLAN APPROVAL

_____ PRELIMINARY PLAT APPROVAL

_____ S. DEV. PLAN FOR SUB'D. APPROVAL

_____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL

_____ SECTOR PLAN APPROVAL

_____ FINAL PLAT APPROVAL

_____ FOUNDATION PERMIT APPROVAL

_____ BUILDING PERMIT APPROVAL

_____ CERTIFICATE OF OCCUPANCY APPROVAL

_____ GRADING PERMIT APPROVAL

_____ PAVING PERMIT APPROVAL

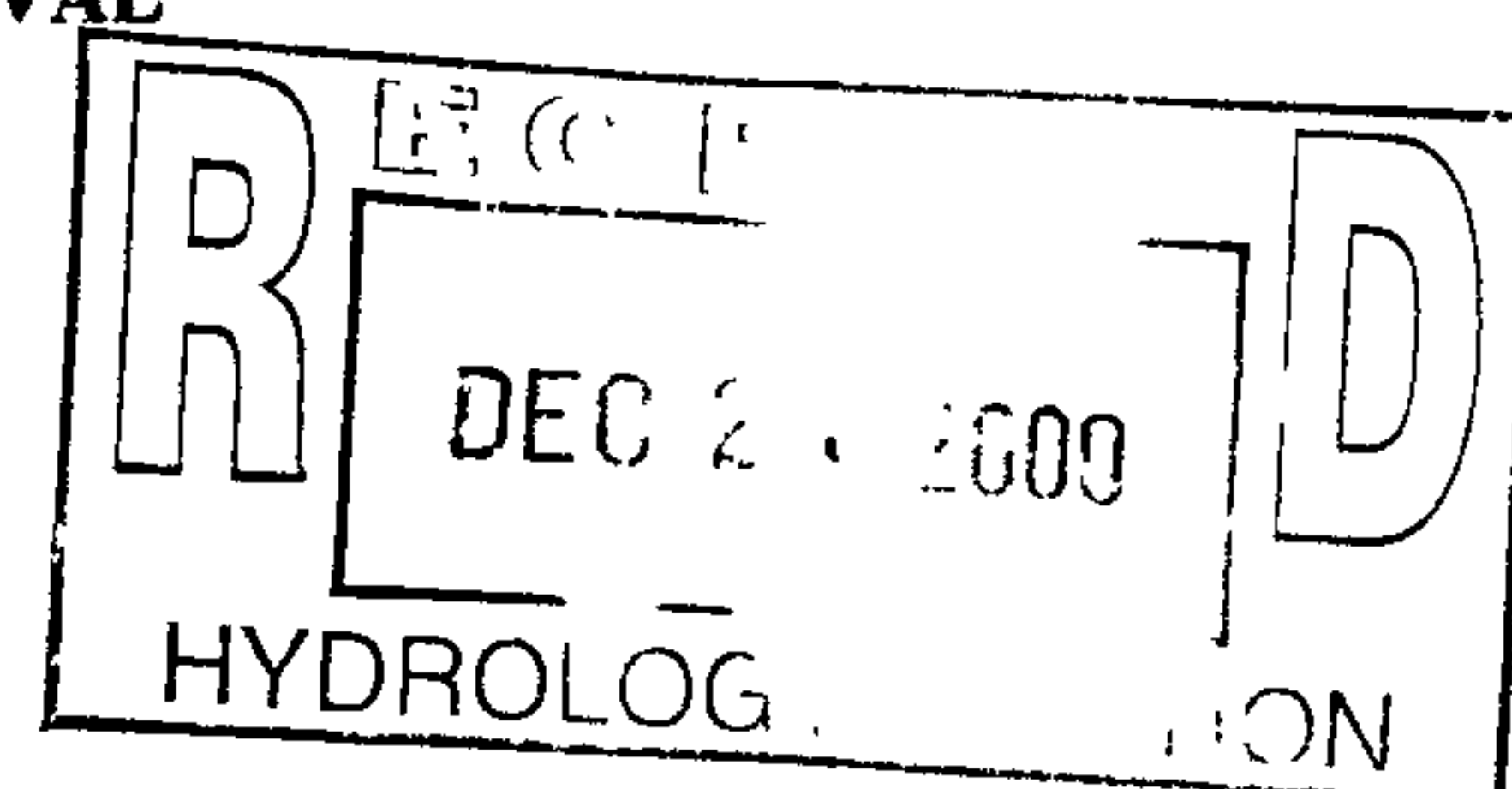
_____ S. A. D. DRAINAGE REPORT

_____ DRAINAGE REQUIREMENTS

X SO-19 APPROVAL

DATE SUBMITTED: 12 / 29 / 00

BY: SHAHAB BLAZAR





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 27, 2000

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
10205 Snowflake Ct., NW
Albuquerque, NM 87114

RE: GRADING PLAN MODIFICATION TO LOT 58, ALAMEDA BUSINESS PARK
(C-16/D006C) ENGINEER'S STAMP DATED JULY 15, 2000,

Dear Mr. Biazar,

Thank you for the new plan showing the modifications to your approved plan for this site. Your submittal is still approved for Site Development Plan for Building Permit, Building Permit, and Grading Permit.

Prior to release of the Certificate of Occupancy, an Engineer's Certification, per the DPM checklist, will be required.

If you have any questions, please call me at 924-3988.

Sincerely,

Stuart Reeder, P.E.

Stuart Reeder, P.E.
Hydrology Division

xc: Whitney Reiersen
✓ File

DRAINAGE INFORMATION SHEET

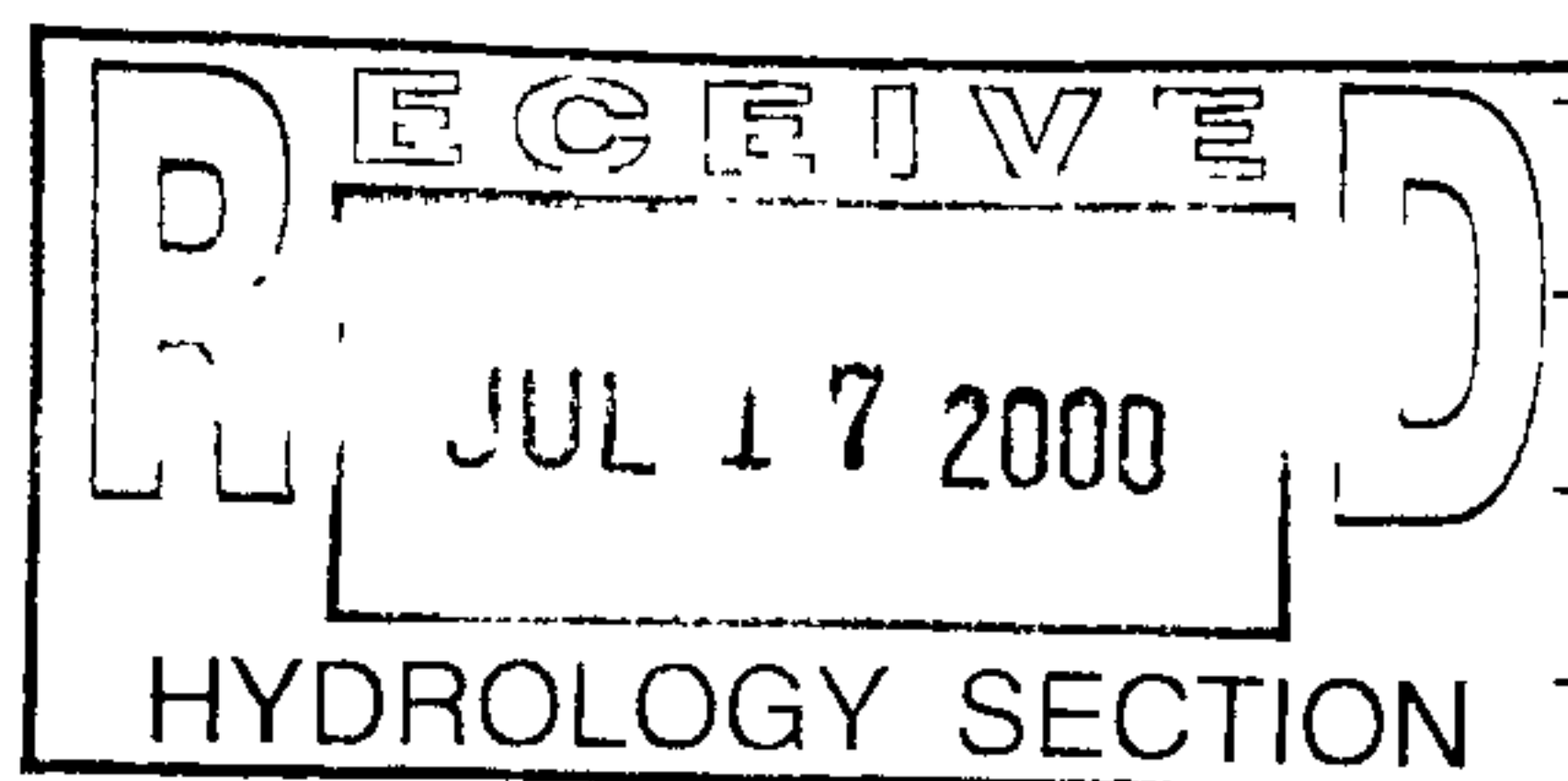
PROJECT TITLE: <u>Lot 58, Alameda Business Park</u>	ZONE ATLAS/DRNG. FILE #: <u>C-16 / D0068 C</u>
DRB #: _____ EPC #: _____	WORK ORDER #: _____
LEGAL DESCRIPTION: <u>Lot 58, Alameda Business Park</u>	
CITY ADDRESS: _____	
ENGINEERING FIRM: <u>Advanced Engineering and Consulting, LLC</u>	CONTACT: <u>Shahab Biazar</u>
ADDRESS: <u>10205 Snowflake Ct. NW Alb., NM 87114</u>	PHONE: <u>(505) 899-5570</u>
OWNER: <u>Western Diversified, Inc.</u>	CONTACT: <u>Gary Benett</u>
ADDRESS: <u>9401 4th Street, NW, Alb., NM 87114</u>	PHONE: _____
ARCHITECT: _____	CONTACT: _____
ADDRESS: _____	PHONE: _____
SURVEYOR: _____	CONTACT: _____
ADDRESS: _____	PHONE: _____
CONTRACTOR: _____	CONTACT: _____
ADDRESS: _____	PHONE: _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

PRE-DESIGN MEETING:

☐ YES
☐ NO
☐ COPY PROVIDED

**CHECK TYPE OF APPROVAL SOUGHT:**

☐ SKETCH PLAN APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S. A. D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☒ GRADING PLAN MODIFICATIONS

DATE SUBMITTED: 07 / 17 / 00

BY: SHAHAB BLAZAR



City of Albuquerque

March 22, 2000

Shahab Biazar, P.E.
Advanced Engineering, and Consulting, LLC
10205 Snowflake Ct., NW
Albuquerque, NM 87114

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RE: GRADING PLAN & DRAINAGE REPORT FOR LOT 58, ALAMEDA BUSINESS
PARK (C-16/D006~~D~~) SUBMITTED FOR SITE DEVELOPMENT PLAN FOR
BUILDING PERMIT APPROVAL, BUILDING PERMIT APPROVAL, AND
GRADING PERMIT APPROVAL

Dear Mr. Biazar,

Based upon the information provided in your March 20, 2000, submittal, with your stamp dated 3/17/00, the project referred to above is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to release of the Certificate of Occupancy, an Engineer Certification, per the DPM checklist, will be required.

If you have any questions, please call me at 924-3988.

Sincerely,

Stuart Reeder, P.E.

Stuart Reeder, P.E.
Hydrology Division

xc: Whitney Reiersen
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Lot 58, Alameda Business Park ZONE ATLAS/DRNG. FILE #: C-16 / 10006C

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Lot 58, Alameda Business Park

CITY ADDRESS: _____

ENGINEERING FIRM: Advanced Engineering and Consulting, LLC CONTACT: Shahab Biazar

ADDRESS: 10205 Snowflake Ct. NW Alb., NM 87114 PHONE: (505) 899-5570

OWNER: Western Diversified, Inc. CONTACT: Gary Benett

ADDRESS: 9401 4th Street, NW, Alb., NM 87114 PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

☒ DRAINAGE REPORT
☐ DRAINAGE PLAN
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☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

PRE-DESIGN MEETING:

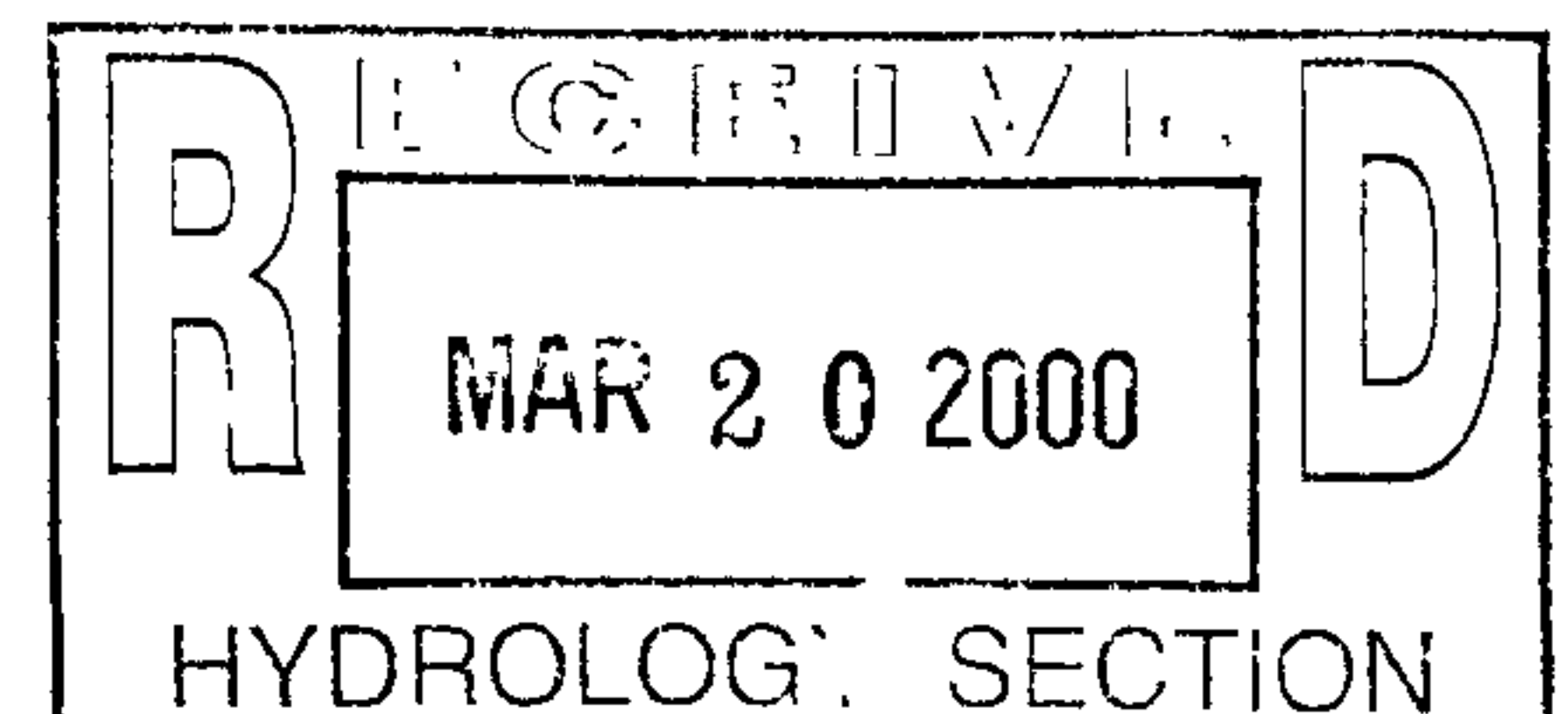
☐ YES
☐ NO
☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAN APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
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☒ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S. A. D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER

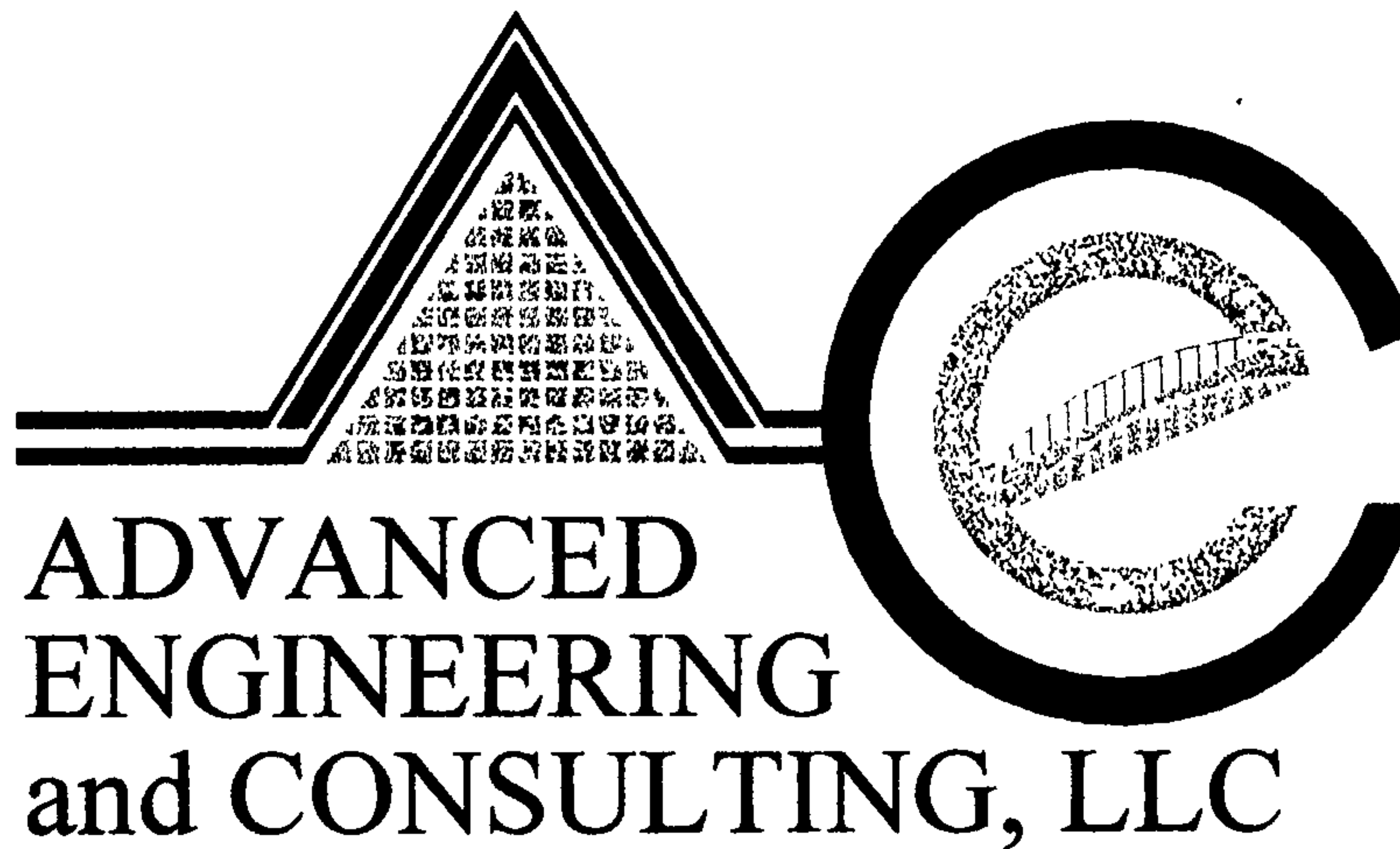
DATE SUBMITTED: 03 / 17 / 00

BY: SHAHAB BIAZAR



DRAINAGE REPORT
FOR
Lot 58
Alameda Business Park

Prepared by:

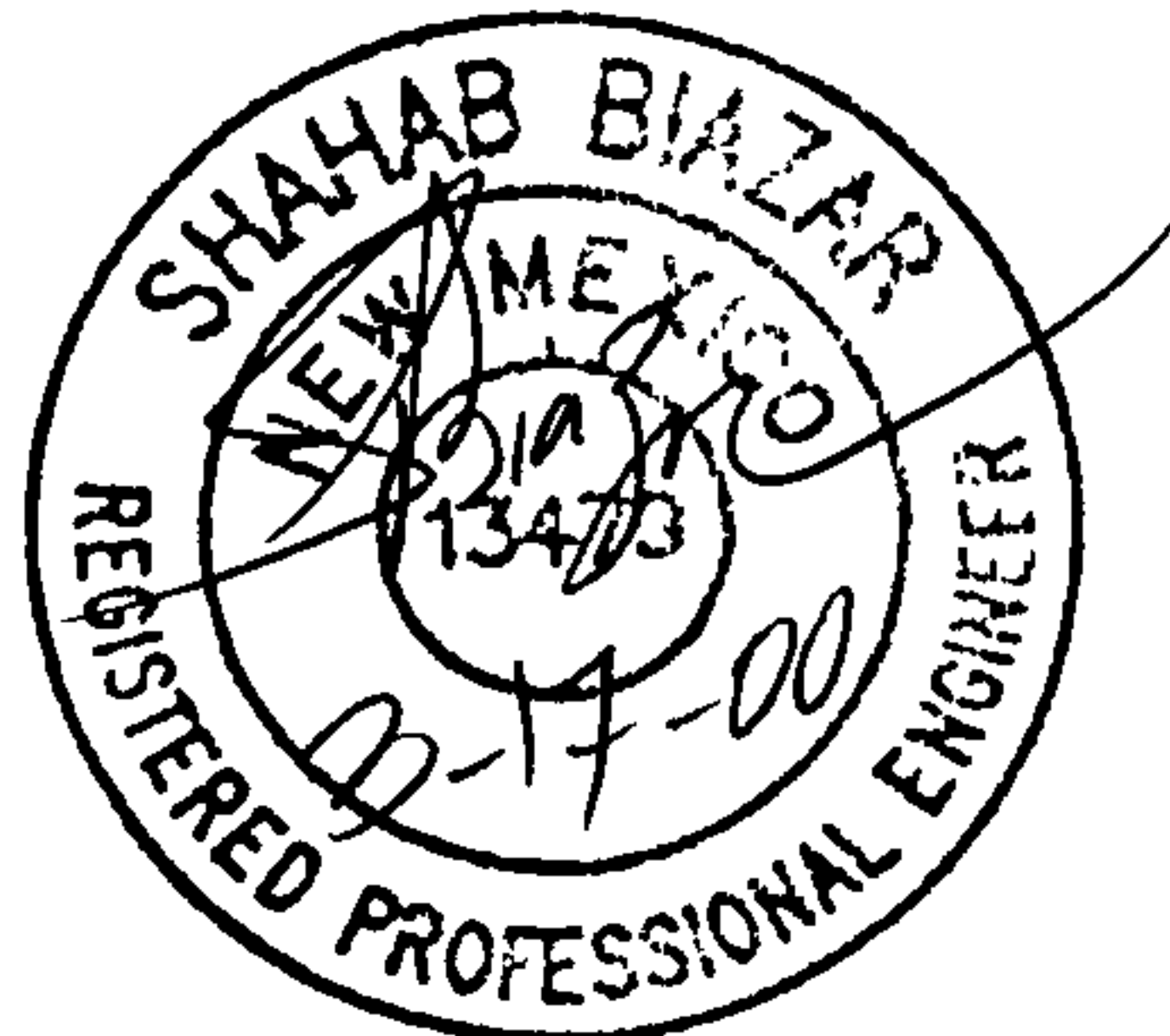


10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

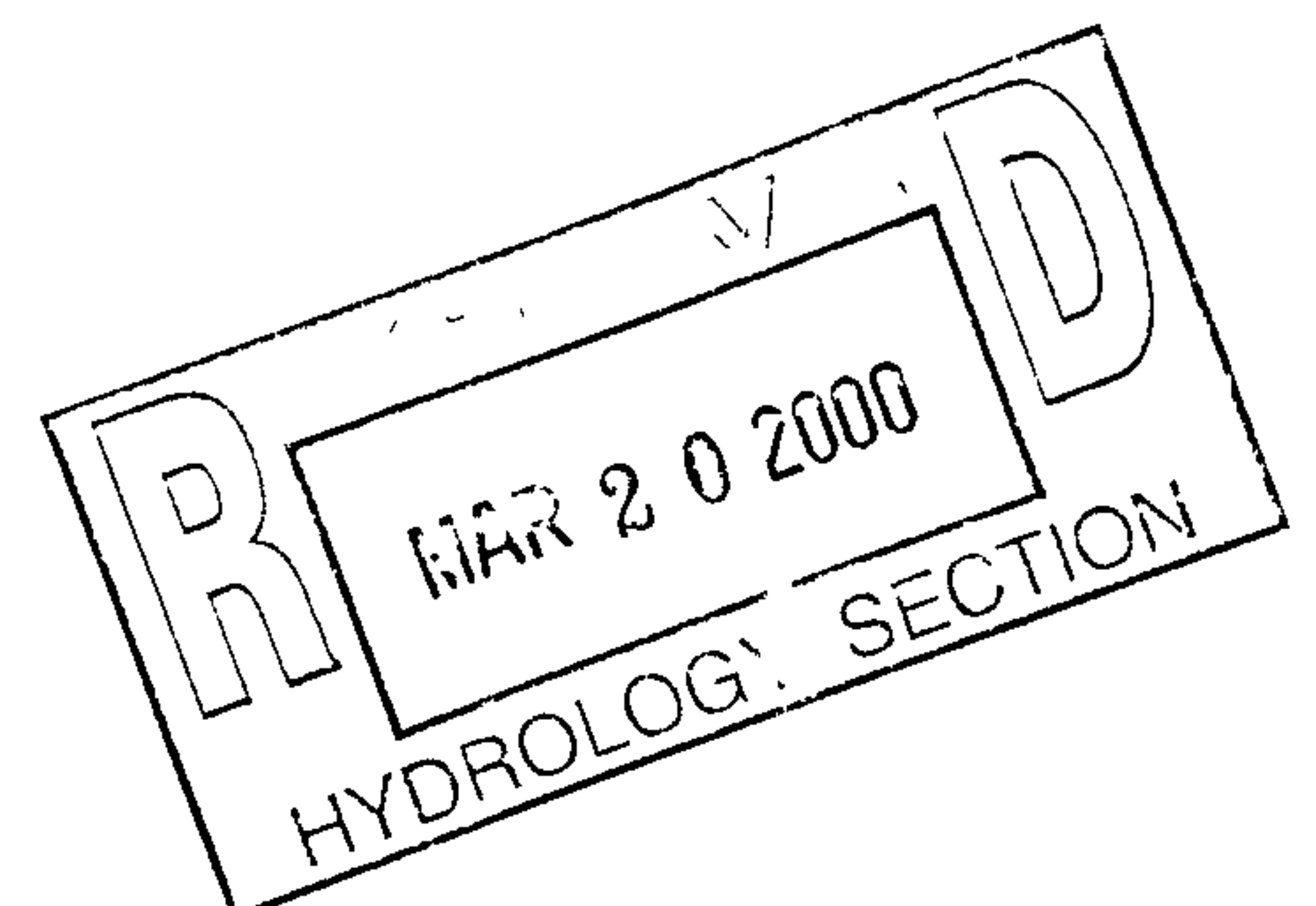
Prepared For:

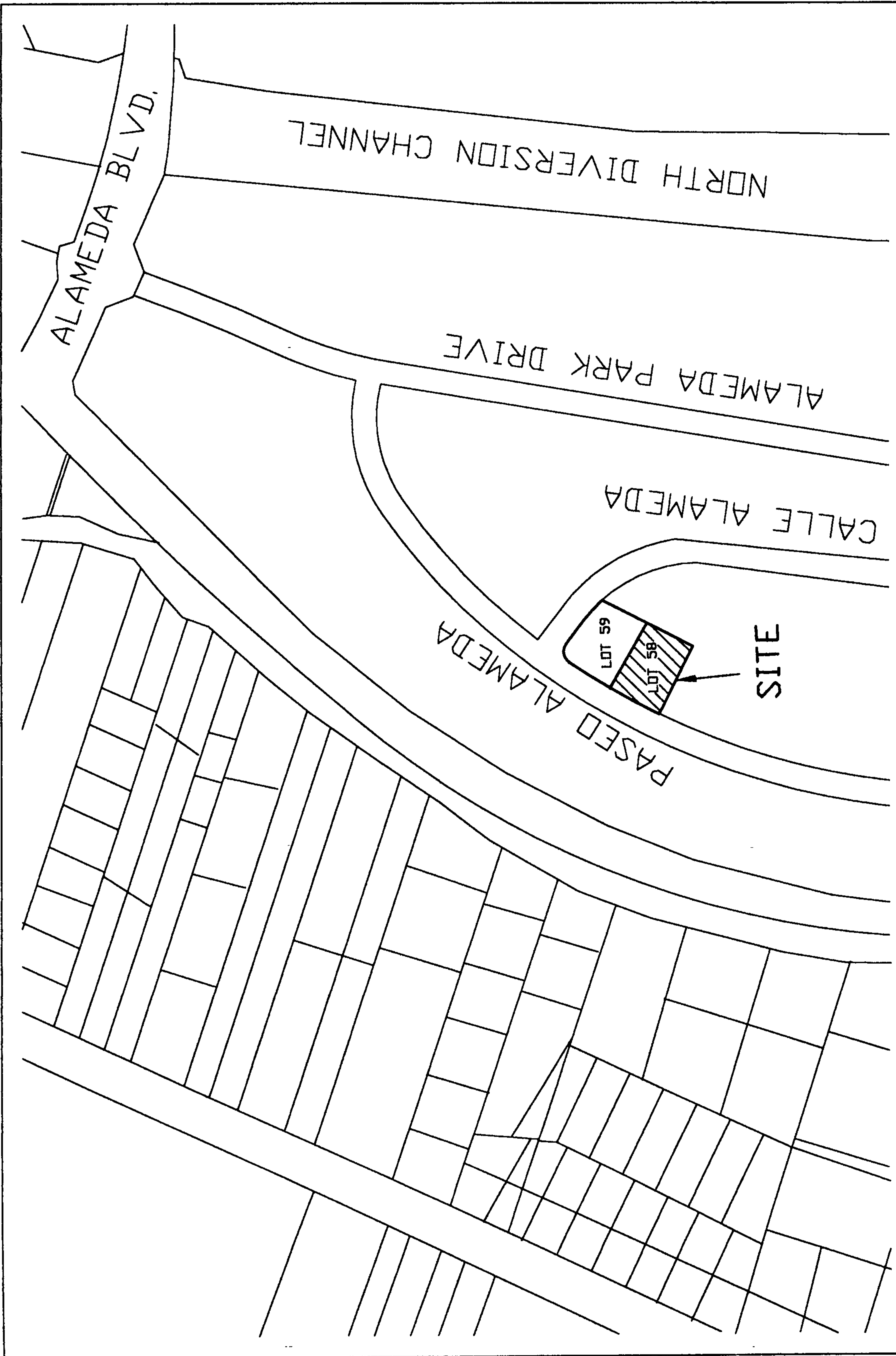
Western Diversified, Inc.
9401 4th Street, NW
Albuquerque, NM 87114

March, 2000



Shahab Biazar
PE NO. 13479





VICINITY MAP:

C-16-Z

Location

Lot 58, Alameda Business Park, is located approximately 150 feet south of Calle Alameda on the east side of Paseo Alameda. See attached Vicinity Map C-16-Z for the location of the site.

Purpose

The owners are proposing to place new buildings on this Tract. Therefore, for are requesting Site Plan, Site Plan for Building permit, Building permit, and grading permit approval.

Existing Drainage Conditions

The site falls within drainage Basin 8 of the Alameda Business Park (City Drainage number C-16/D6). A copy of this Overall Basin Map is included with this submittal. The site under the existing conditions (100-year, 6-hour storm) generates 0.84 cfs. The runoff drains east to west to Paseo Alameda. The runoff in Paseo Alameda drains to a series of storm sewer inlets and then routed to an existing pond located between lots 8 and 9 on the west side of the Paseo Alameda. The runoff from Lot 48 (located on the east side of lot 58) currently drains to this site and then to Paseo Alameda. No other offsite runoff enters this site.

The site falls within FIRM Map No. 35001C 0136 D. The map shows that the site lies within, Zone X, an area outside the 500-year flood plain.

Proposed Conditions and On-Site Drainage Management Plan

The drainage patterns on site will remain the same. The runoff on site, under a developed runoff of 2.34 cfs will drain west to Paseo Alameda. The runoff in Paseo Alameda drains to a series of storm sewer inlets, and then it is routed to an existing pond located between lots 8 and 9 on the west side of the Paseo Alameda. According to Master Drainage Plan for Alameda Business Park, the pond is designed for fully developed conditions. The offsite runoff from Lot 48 will be routed, via a swale, to an existing 10 feet private drainage easement on Lot 57, along its northerly boundary line and then west to Paseo Alameda. This existing 10' easement was created for the drainage runoff routing of the Lots 48, 49, 50, 51, & 57 to Paseo Alameda. Lots 58 and 59 will be built simultaneously. Therefore the enclosed grading plan is for both Lots 58 and 59. A separate report was submitted for Lot 59 at the same time of this submittal.

Calculations

City of Albuquerque, Development Process Manuel, Section 22.2, Hydrology Section, revised January 1993, was used for runoff calculations. See this report for Summary Table for runoff results. See also this report for AHYMO input and output files for runoff and ponding calculations.

RUNOFF CALCULATIONS

The site is @ Zone 2

DEPTH (INCHES) @ 100-YEAR STORM

$$P_{60} = 2.01 \text{ inches}$$

$$P_{360} = 2.35 \text{ inches}$$

$$P_{1440} = 2.75 \text{ inches}$$

DEPTH (INCHES) @ 10-YEAR STORM

$$\begin{aligned} P_{60} &= 2.01 \times 0.667 \\ &= 1.34 \text{ inches} \end{aligned}$$

$$P_{360} = 1.57$$

$$P_{1440} = 1.83$$

See the summary output from AHYMO calculations.

Also see the following summary tables.

RUNOFF CALCULATION RESULTS

EXISTING			
BASIN	AREA (SF)	AREA (AC)	AREA (MI ²)
LOT 58	23,388.60	0.5369	0.000839
LOT 59	23,730.02	0.5448	0.000851

EXISTING		
BASIN	Q-100 CFS	Q-10 CFS
LOT 58	0.84	0.20
LOT 59	0.85	0.20

PROPOSED		
BASIN	Q-100 CFS	Q-10 CFS
LOT 58	2.34	1.50
LOT 59	2.38	1.52

RUN DATE (MON/DAY/YR) =03/14/2000

COMMAND		HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1
NOTATION											
START											
TIME= .00											
RAINFALL TYPE= 1											
RAIN6= 2.350											
COMPUTE NM HYD	101.00	-	1	.00084	.84	.024	.53121	1.533	1.569	PER IMP= .00	
COMPUTE NM HYD	102.00	-	1	.00085	.85	.024	.53121	1.533	1.569	PER IMP= .00	
START											
TIME= .00											
RAINFALL TYPE= 1											
RAIN6= 1.570											
COMPUTE NM HYD	111.00	-	1	.00084	.20	.006	.12517	1.533	.376	PER IMP= .00	
COMPUTE NM HYD	112.00	-	1	.00085	.20	.006	.12517	1.533	.376	PER IMP= .00	
START											
TIME= .00											
RAINFALL TYPE= 1											
RAIN6= 2.350											
COMPUTE NM HYD	101.10	-	1	.00084	2.34	.086	1.91479	1.500	4.367	PER IMP= 85.00	
COMPUTE NM HYD	102.10	-	1	.00085	2.38	.087	1.91479	1.500	4.367	PER IMP= 85.00	
START											
TIME= .00											
RAINFALL TYPE= 1											
RAIN6= 1.570											
COMPUTE NM HYD	111.10	-	1	.00084	1.50	.053	1.17875	1.500	2.793	PER IMP= 85.00	
COMPUTE NM HYD	112.10	-	1	.00085	1.52	.053	1.17875	1.500	2.793	PER IMP= 85.00	
FINISH											

```

* ZONE 2
*****
*   100-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS)   *
*****
START          TIME=0.0
RAINFALL       TYPE=1 RAIN QUARTER=0.0 IN
               RAIN ONE=2.01 IN RAIN SIX=2.35 IN
               RAIN DAY=2.75 IN DT=0.03333 HR

*
* LOT 58
*
COMPUTE NM HYD  ID=1 HYD NO=101.0 AREA=0.000839 SQ MI
                PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                TP=0.1333 HR MASS RAINFALL=-1

*
* LOT 59
*
COMPUTE NM HYD  ID=1 HYD NO=102.0 AREA=0.000851 SQ MI
                PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                TP=0.1333 HR MASS RAINFALL=-1

*****
*   10-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS)   *
*****
START          TIME=0.0
RAINFALL       TYPE=1 RAIN QUARTER=0.0 IN
               RAIN ONE=1.34 IN RAIN SIX=1.57 IN
               RAIN DAY=1.83 IN DT=0.03333 HR

*
* LOT 58
*
COMPUTE NM HYD  ID=1 HYD NO=111.0 AREA=0.000839 SQ MI
                PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                TP=0.1333 HR MASS RAINFALL=-1

*
* LOT 59
*
COMPUTE NM HYD  ID=1 HYD NO=112.0 AREA=0.000851 SQ MI
                PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                TP=0.1333 HR MASS RAINFALL=-1

*****
*   100-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS)   *
*****
START          TIME=0.0
RAINFALL       TYPE=1 RAIN QUARTER=0.0 IN
               RAIN ONE=2.01 IN RAIN SIX=2.35 IN
               RAIN DAY=2.75 IN DT=0.03333 HR

*
* LOT 58
*
COMPUTE NM HYD  ID=1 HYD NO=101.1 AREA=0.000839 SQ MI
                PER A=0.00 PER B=15.00 PER C=0.00 PER D=85.00
                TP=0.1333 HR MASS RAINFALL=-1

```

```
*
* LOT 59
*
COMPUTE NM HYD      ID=1 HYD NO=102.1 AREA=0.000851 SQ MI
                    PER A=0.00 PER B=15.00 PER C=0.00 PER D=85.00
                    TP=0.1333 HR MASS RAINFALL=-1
*****
*    10-YEAR, 6-HR STORM (UNDER PROPOSED CONDITIONS)    *
*****
START              TIME=0.0
RAINFALL           TYPE=1 RAIN QUARTER=0.0 IN
                   RAIN ONE=1.34 IN RAIN SIX=1.57 IN
                   RAIN DAY=1.83 IN DT=0.03333 HR
*
* LOT 58
*
COMPUTE NM HYD      ID=1 HYD NO=111.1 AREA=0.000839 SQ MI
                    PER A=0.00 PER B=15.00 PER C=0.00 PER D=85.00
                    TP=0.1333 HR MASS RAINFALL=-1
*
* LOT 59
*
COMPUTE NM HYD      ID=1 HYD NO=112.1 AREA=0.000851 SQ MI
                    PER A=0.00 PER B=15.00 PER C=0.00 PER D=85.00
                    TP=0.1333 HR MASS RAINFALL=-1
*****
FINISH
```