



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

***Planning Department
Transportation Development Services Section***

April 7, 2003

James B. Clark, Registered Architect
516 Eleventh Street NW
Albuquerque, NM 87102-1806

Re: Certification Submittal for Final Building Certificate of Occupancy for
Colorado Utility, [H-15 / D30B], 2516 University Blvd NE
Architect's Letter Dated 03/31/03

Dear Mr. Clark:

The TCL / Letter of Certification submitted on March 12, 2003 is approved by this office for final Certificate of Occupancy (C.O.) for Transportation with the condition that the 2 western parking spaces that have been added near the curb cut be striped out. Staggered parking such as this creates an undesirable visibility problem. Notification has been made to the Building and Safety Section.

Please note that in the future use a copy of the City stamped approved TCL for certification.

Sincerely,

Richard Dourte, P.E.
Traffic Engineer
Development and Building Services
Planning Department

c: File
Hydrology file

DRAINAGE INFORMATION SHEET

(REV. 1/28/2003rd)

14-15/D30B

PROJECT TITLE: COLORADO UTILITY ZONE ATLAS/DRG. FILE #: H15 / D030B
DRB #: EPC #: WORK ORDER #:

LEGAL DESCRIPTION: PARCEL 3, MENAUL DEVELOPMENT AREA
CITY ADDRESS: 2516 UNIVERSITY BLVD. NE

ENGINEERING FIRM: Advanced Engineering and Consulting, LLC
ADDRESS: 10205 Snowflake Ct. NW
CITY, STATE: Albuquerque, New Mexico

CONTACT: Shahab Biazar
PHONE: (505) 899-5570
ZIP CODE: 87114

OWNER:
ADDRESS:
CITY, STATE:

CONTACT:
PHONE:
ZIP CODE:

ARCHITECT:
ADDRESS:
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CONTACT:
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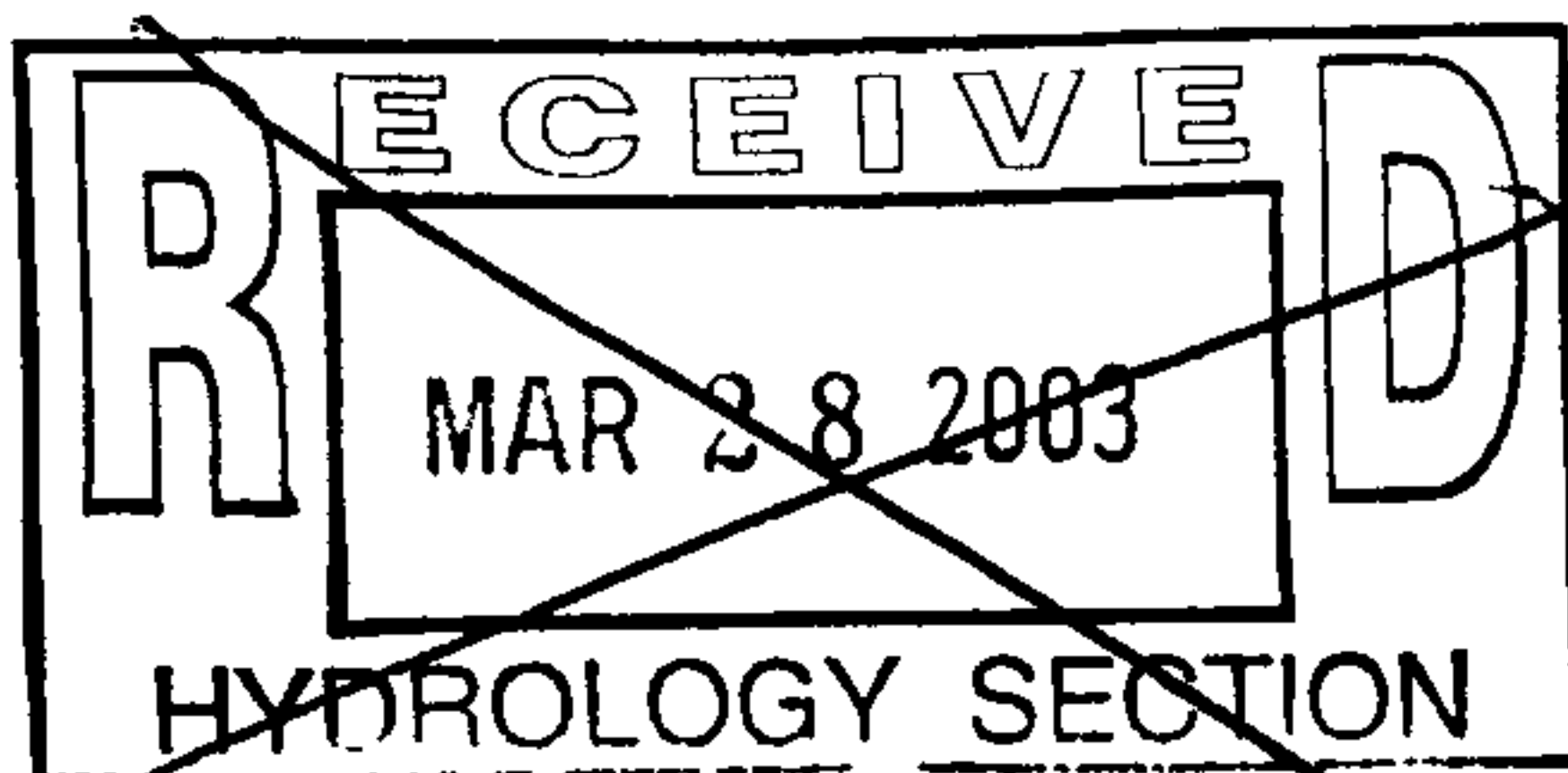
CONTACT:
PHONE:
ZIP CODE:

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1ST SUBMITTAL, REQUIRES TCL OR EQUAL
☒ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
☐ CLOMR / LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☒ ENGINEER'S CERTIFICATION (TCL)
☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
☐ 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 (PERM.)
☐ CERTIFICATE OF OCCUPANCY (TEMP.)
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ OTHER (SPECIFY)



WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
☒ NO
☐ COPY PROVIDED

4/4/03

DATE SUBMITTED: 03/27/2003 BY: Shahab Biazar, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittals may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5)
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or more

31 March 2003
Project MW 0261

Development and Building Services
Planning Department
City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

Re: Letter of Certification

Project: New Metal Building for
Utility Trailer of Colorado
2516 University Blvd NE
Albuquerque, New Mexico

On 20 March 2003, I conducted a Site Observation Visit of the completed facility to confirm the construction of the site improvements.

My observation revealed that the site improvements are in substantial compliance with the City of Albuquerque approved Traffic Circulation Plan.

Four field changes were noted which do not alter the requirements of the approved TCL:

- a. 4" Asphalt paving was added in the rear of the building
- b. There are 11 parking spaces in the rear of the building compared to the 13 on the approved Traffic Circulation plan
- c. By moving the landscape planter, 10 spaces were provided in the front of the building where the approved Traffic Circulation Plan had 8 spaces. There are also an additional 4 parking spaces near the entry curb cut.
- d. The dumpster enclosure was enlarged to accommodate 3 dumpsters

The TCL Plan drawing has been revised to reflect these changes.

If you need any additional information, please call.

Sincerely,

James B Clark

James B. Clark, RA
Vice President

Encl: 'As-Built' TCL Plan drawing dated 31 Mar 03



MASTERWORKS ARCHITECTS, INC.

RETURN TO THE STANDARDS OF THE MASTER BUILDERS

516 Eleventh St. NW, Albuquerque, NM 87102-1806

(505) 242-1866 FAX (505) 242-1802



October 30, 2002

Mr. Bradley Bingham
Development and Building Services
City of Albuquerque
P.O. BOX 1293
Albuquerque, New Mexico 87103

VIA FACSIMILE

Ref: Colorado Utility Drainage Report

Dear Brad:

Per my discussions with Carlos Montoya, this letter will confirm that we will give a paper easement to the city for an additional 20' north of the existing easement on our property at 2516 University NE also known as Parcel 3, Menaul Development Area.

The easement will be provided before the issuance of a CO for the building to be constructed on the property. In fact we have already begun preparation of the documents for the easement. In lieu of this letter Carlos has said that you will approve the hydrology plan so we can get a building permit. We appreciate your cooperation.

Sincerely,

Louis Sadler

Prior to C.O.
release Color on Fred.
Needs to review
the new S.D. easement.
CAM 12-10-02



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 24, 2002

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

**RE: Colorado Utility Drainage Report (H15-D30B)
Engineer's Stamp Dated September 22, 2002**

Dear Mr. Biazar:

I have reviewed the referenced drainage report received September 25, 2002 and forward the following comment:

Prior to building permit release, an easement document for the future 72" storm drain will be required. The easement should be coordinated with Dan Hogan, Hydrology (768-2778).

If you have any questions please call me at 924-3986

Sincerely,

Bradley L. Bingham, PE
Sr. Engineer, Planning Dept.
Development and Building Services

DRAINAGE INFORMATION SHEET
(REV. 1/28/2003rd)

14-15/D30B

PROJECT TITLE: COLORADO UTILITY ZONE ATLAS/DRG. FILE #: H15 / D030B
DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: PARCEL 3, MENAUL DEVELOPMENT AREA
CITY ADDRESS: 2516 UNIVERSITY BLVD. NE

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CONTACT: Shahab Biazar
PHONE: (505) 899-5570
ZIP CODE: 87114

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CONTACT: _____
PHONE: _____
ZIP CODE: _____

ARCHITECT: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

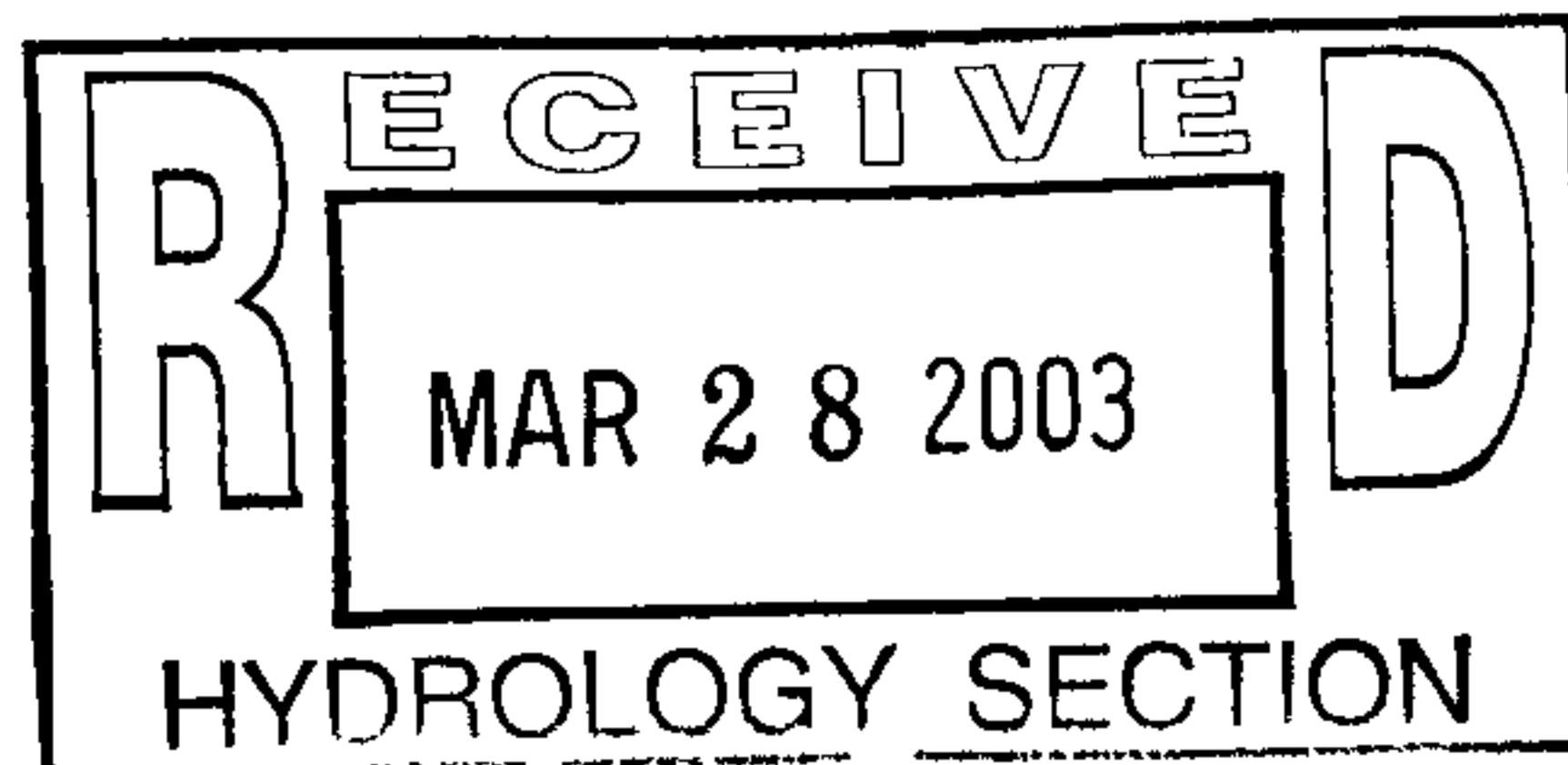
CONTACT: _____
PHONE: _____
ZIP CODE: _____

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_____ DRAINAGE PLAN 1ST SUBMITTAL, REQUIRES TCL OR EQUAL
☒ CONCEPTUAL GRADING & DRAINAGE PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
_____ CLOMR / LOMR
_____ TRAFFIC CIRCULATION LAYOUT (TCL)
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_____ PAVING PERMIT APPROVAL
_____ WORK ORDER APPROVAL
_____ OTHER (SPECIFY)



WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES
☒ NO
_____ COPY PROVIDED

DATE SUBMITTED: 03 / 27 / 2003 BY: Shahab Biazar, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittals may be required based on the following:

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Brad L. Bingham

01/14/03 09:05 AM

To: Pamela C. Lujan/PWD/CABQ
cc: Teresa A. Martin/PWD/CABQ
cc:
Subject: Colorado Utility

Pam, this e-mail will have to serve as an approval for SO19 permit for the Colorado Utility site. Let me know if there is any thing else you need.

Brad



Brad L. Bingham

01/14/03 09:14 AM

To: Pamela C. Lujan/PWD/CABQ@COA
cc: Teresa A. Martin/PWD/CABQ@COA
Subject: Colorado Utility

Pam, this e-mail will have to serve as an approval for SO19 permit for the Colorado Utility site. Let me know if there is any thing else you need.

Brad

H-15/D30B

Cort-SDM
Mub
4/4/03

CITY OF ALBUQUERQUE

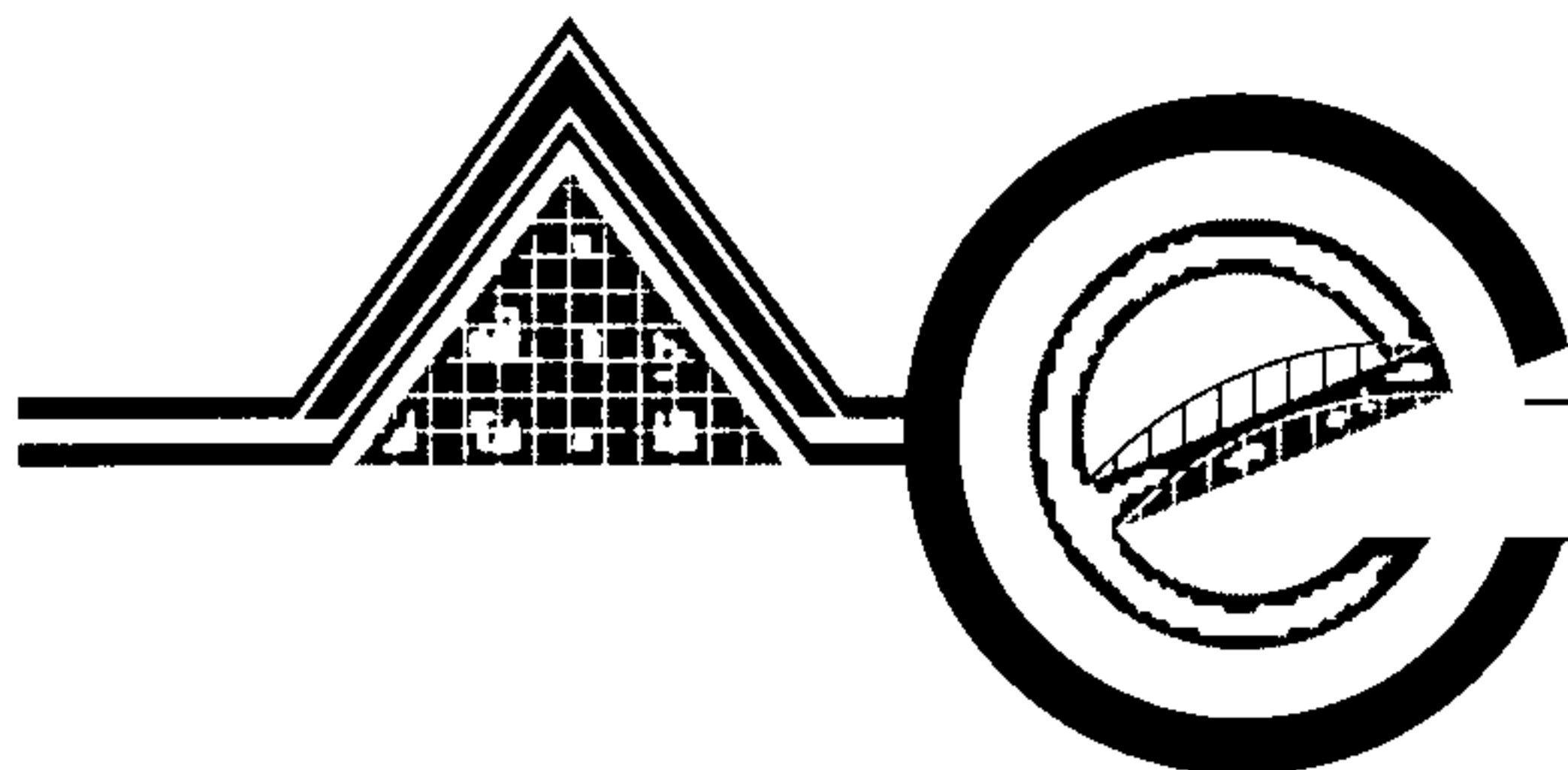
PERMIT FOR EXCAVATION, CONSTRUCTION AND BARRICADING

CONTRACTOR LICENSE ADDRESS		PERMIT NUMBER	
		PROJECT NUMBER	
		PERMIT ISSUE DATE	
		BARRICADED BY	
		BLUE STAKE	
		PAVING BY	
SITE		EXCAVATION 443008-5810000	
		SIDEWALK 443012-5810000	
		DRIVEPAD 443011-5810000	
		CURB/GUTTER 443010-5810000	
		BARRICADING 443009-5810000	
		RESTORATION 443017-5810000	
		TOTAL FEE	
PERMIT AND DETOUR PLAN COMMENTS			
START DATE	COMPLETION DATE	PERMIT EXPIRES	INSURANCE EXPIRES
APPLICANT		VOID UNTIL VALIDATED BY CITY TREASURER	
ISSUED BY			

PERMITTEE AGREES TO ASSUME ALL LIABILITY, INCLUDING INDEMNIFYING, DEFENDING AND HOLDING THE CITY HARMLESS FOR ALL DAMAGES OR INJURY TO PERSONS OR PROPERTY RESULTING FROM PERMITTEE'S EXCAVATION AND/OR BARRICADE WORK. THIS PERMIT IS GRANTED IN CONSIDERATION OF PERMITTEE'S ASSUMING SAID LIABILITY AND IS APPROVED FOR THE WORK DESCRIBED ABOVE. IN ACCORDANCE WITH SECTION 6-5-2-1 ET SEQ. R.O. (1994), PERMITTEE AGREES TO COMPLY WITH ALL APPLICABLE CITY RULES, REGULATIONS AND ORDINANCES, AND WHEN EXCAVATING, TO PATCH OR PLATE PRIOR TO OPENING TO TRAFFIC IN ACCORDANCE WITH APPLICABLE RULES, REGULATIONS AND ORDINANCES. PLEASE CALL 768-2551 FOR ADDITIONAL INFORMATION

CAUTION: PROTECT UNDERGROUND UTILITIES CALL 260-1990, 48 HOURS IN ADVANCE FOR LINE STAKING

PMD003 REV 07/96



ADVANCED ENGINEERING and CONSULTING, LLC

*Consulting
Design
Development
Management
Inspection
Surveying*

March 27, 2003

Mr. Bradley L. Bingham, P.E.
Sr. Engineer, PWD
Development and Building Services
600 Second Street NW
Albuquerque, New Mexico 87102

RE: GRADING CERTIFICATION FOR COLORADO UTILITY (H15/D30B)

Dear Mr. Bingham:

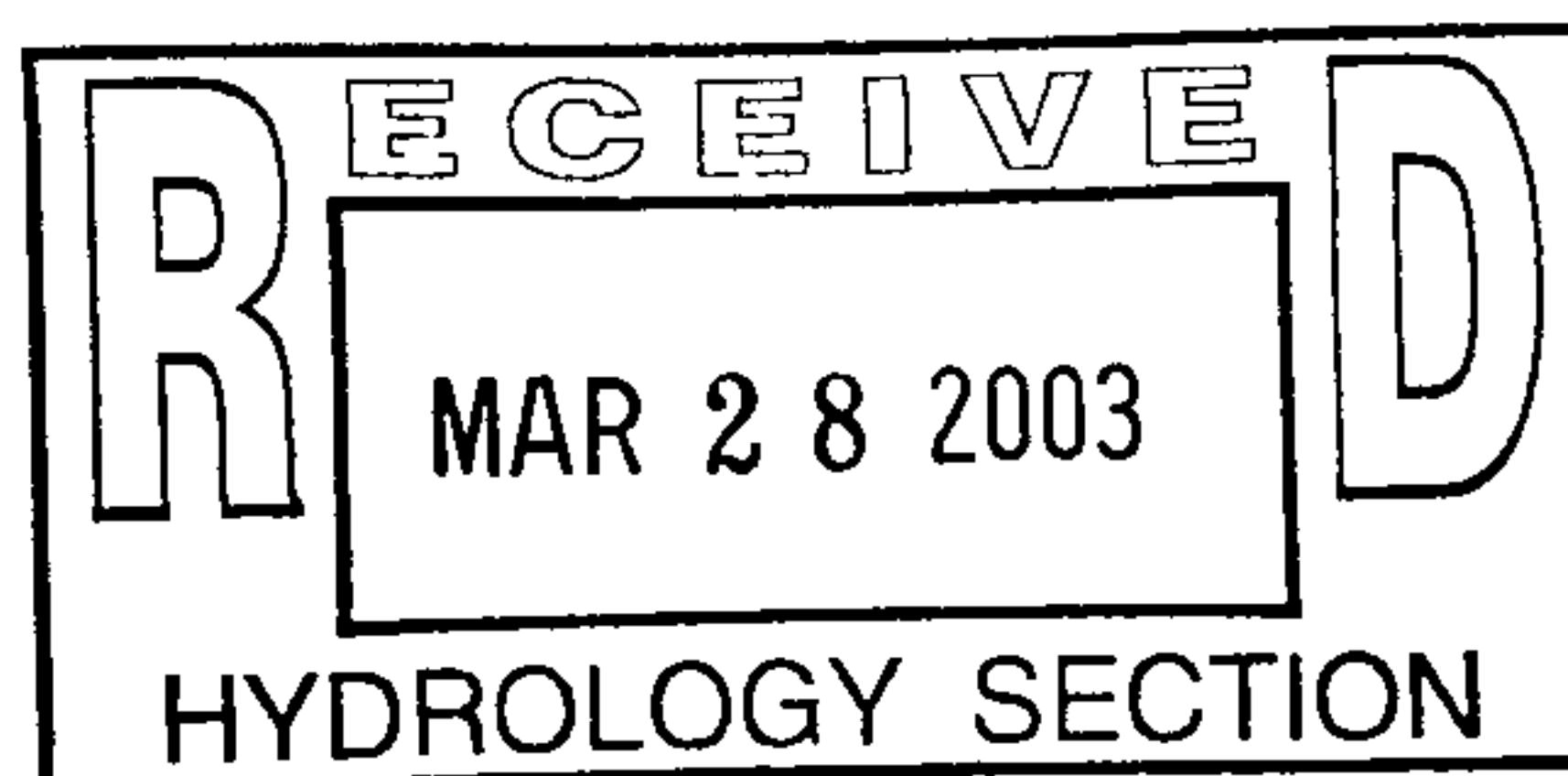
?

This letter is to request the Final Occupational Occupancy. The grades on site were lowered approximately 6". Since the slope was flatten along the channel, located along the southerly property line, the width of the channel was increased. See as-built grading plan for changes. The SO-19 green tags will be provided by the owner. The additional easement for the construction of the future 72" storm drain pipe was submitted as part of replat action (in order to remove the existing utility easement along the northern property line) Project Number 1002462.

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

Sincerely yours,

Shahab Biazar, P.E.





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 9, 2003

Shahab Biazar, P.E.
Advanced Engineering & Consulting, LLC
10205 Snowflake Ct NW
Albuquerque, New Mexico 87114

**RE: COLORADO UTILITY (H-15/D030B)
ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY
ENGINEERS STAMP DATED 9/22/2002
ENGINEERS CERTIFICATION DATED 3/27/2003**

Dear Shahab:

Based upon the information provided in your Engineers Certification submittal dated 3/28/2003, and upon the SO19 approval by the City's Storm Drainage Maintenance inspector, and also the receipt of the Easement for the construction of the future 72" storm drain pipe, the above referenced site is approved for a Permanent Certificate of Occupancy.

If I can be of further assistance, please contact me at 924-3981.

Sincerely,

Teresa A. Martin
Hydrology Plan Checker
Development & Bldg. Ser. Div.
pub

C: Certificate of Occupancy Clerk, COA
✓ drainage file
approval file

DRAINAGE INFORMATION SHEET

(REV. 11/01/2001)

PROJECT TITLE: COLORADO UTILITY ZONE ATLAS/DRG. FILE #: H15 / D030B
DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: PARCEL 3, MENAUL DEVELOPMENT AREA
CITY ADDRESS: 2516 UNIVERSITY BLVD. NE

ENGINEERING FIRM: Advanced Engineering and Consulting, LLC
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CONTRACTOR: _____
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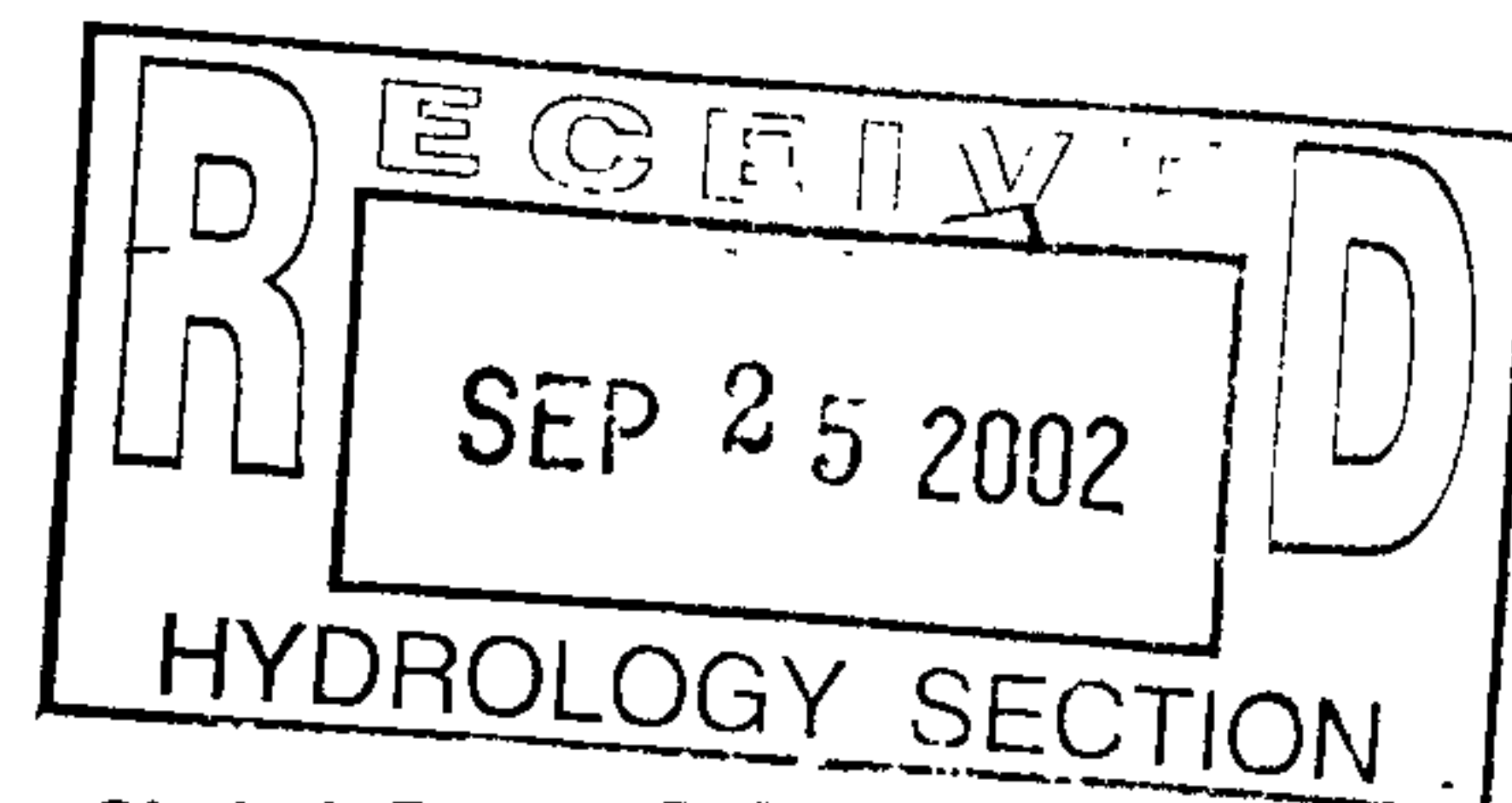
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☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☒ SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: 09 / 22 / 2002 BY: Shahab Biazar, P.E.



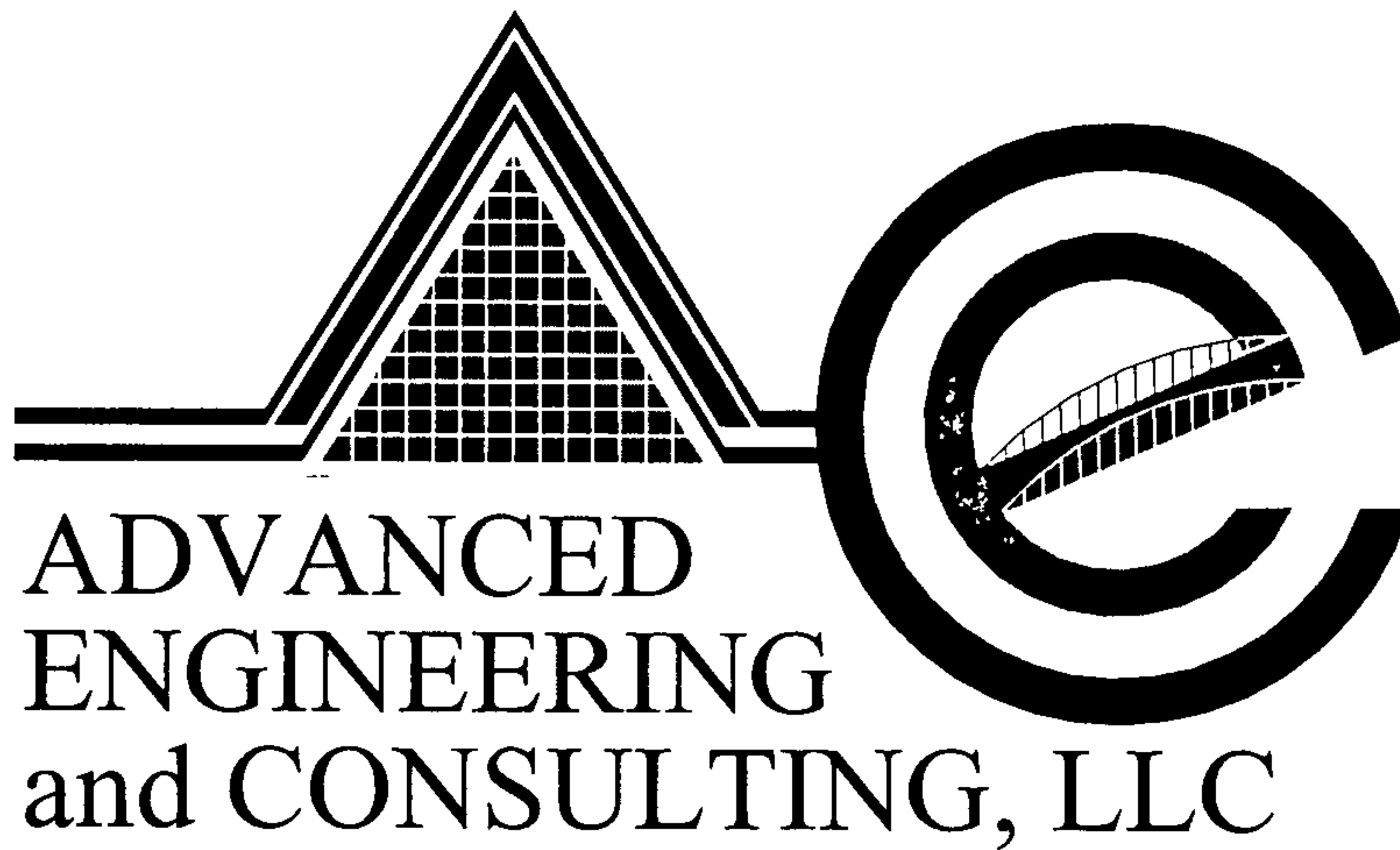
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DRAINAGE REPORT
FOR

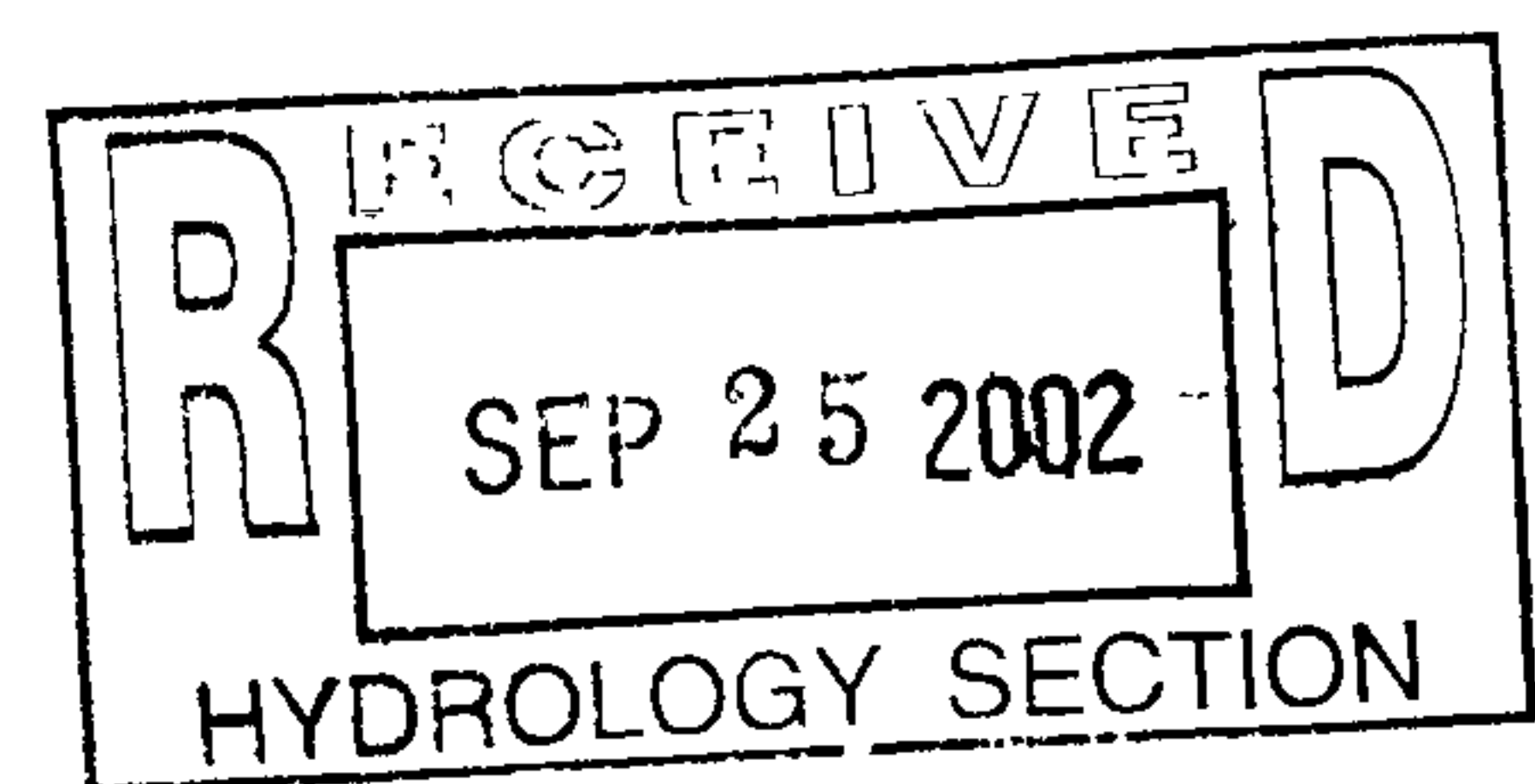
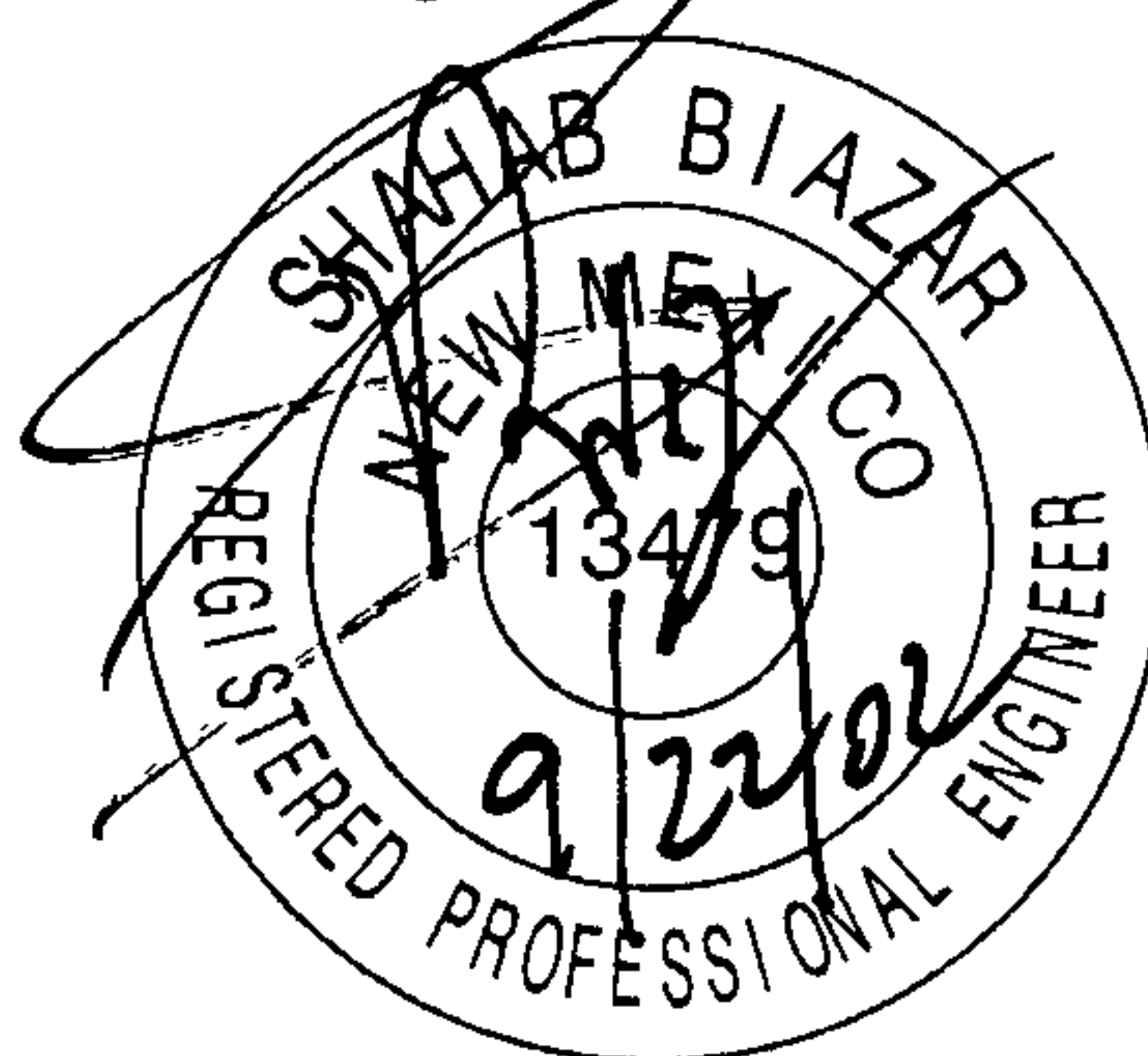
COLORADO UTILITY
2516 UNIVERSITY BLVD NE

Prepared by:

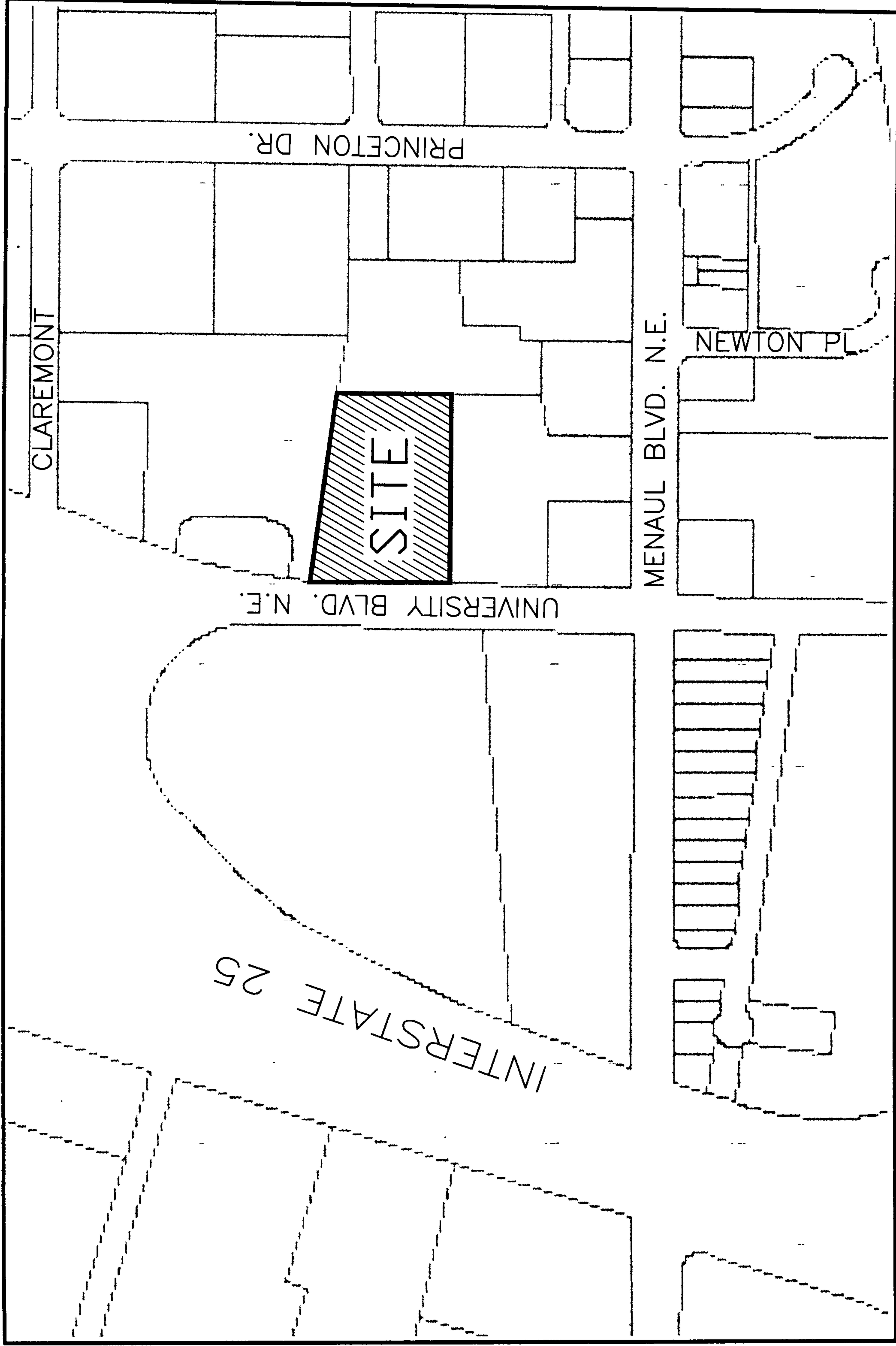


10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

September, 2002



Shahab Biazar
PE NO. 13479



VICINITY MAP:

H-15-Z

Location

Colorado Utility Building will be on Parcel 3 of Menaul Development Area which is located at 2516 University Blvd. See attached Zone Atlas page number H-15 for exact location. The owners are proposing to construct a new building on this site.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the proposed sites. We are requesting rough grading approval, as well as building permit approval for the above mentioned project.

Existing Drainage Conditions

The site drains to the southwest corner of the property and then overflows into the University Blvd. Portion of the site is paved. There are offsite flow from the north and from the east than drain to this site. No other offsite runoff enters this site. The runoff to the west is intercepted by University Blvd which drain south and the runoff to the south drains south and west to University Blvd and Menaul. There is an existing 72" RCP pipe that was constructed through this site. Under the Drainage Study for the Menaul Detention Basin prepared by Smith Engineering it was proposed to extend an additional 72" RCP parallel to

this existing 72" RCP to route the excess runoff at the inlets located at the west end of Princeton, on Phoenix. The site does not fall within a 100-year floodplain.

Proposed Conditions and On-Site Drainage Management Plan

The site, under the developed conditions, will continue to drain to the southeast corner of the site and then will discharge to University Blvd. via 2-2' sidewalk culverts.

Approximately 40% of the runoff drains to the west on the south side of the building and the remaining 60% will drain to the west on the north side of the building. The runoff from the south will drain to a 3' curb opening and then to 1.3' wide x 1.5' deep concrete channel (which changes to 2.0' wide x 1.50' deep channel when more runoff is intercepted) and then to southeast corner of the tract to 2-2' sidewalk culverts and then to University Blvd. The runoff from the north will drain west and then south to a 3' curb opening and then to a 2.0' wide x 1.50' deep channel and from there to 2-2' sidewalk culverts and then to University Blvd. The offsite runoff from the north (0.39 cfs) will continue to drain through this site.

The site to the east is going to be developed prior to our site, and the runoff will be routed to Menaul Blvd. The total runoff that drains to 2-2' sidewalk culverts is 12.21 cfs. The channels (1.3' wide x 1.5' deep and 2.0' wide x 1.5' deep) both have more than adequate capacity to carry the runoff. The 1.3' wide x 1.5' deep channel has the capacity to carry a flow of 9.30 cfs which only intercepts a runoff of no more than 5 cfs. The 2.0' wide x 1.5' deep channel has the capacity to carry a flow of 17.25 cfs which only intercepts a runoff of no

more than 12.21 cfs. The sidewalk culverts have a flow capacity of 18.25 cfs which only intercepts a runoff of 12.21 cfs. We are requesting for SO-19 approval as well for the construction of the sidewalk culverts and the rim modification of the existing storm sewer manhole. A copy of the proposed development for the property to the east (City Drainage Number H15/D60) is enclosed as part of this submittal for information only.

Calculations

City of Albuquerque, Development Process Manual, Section 22.2, Hydrology Section, revised January, 1993, was used for runoff calculations. See this report for calculation results.

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

OFFSITE & ON-SITE

BASIN AREA

ON-SITE	AREA (SF)	AREA (AC)	AREA (MI ²)
OFFSITE	8,830.95	0.2027	0.000317
ON-SITE	115,381.51	2.6488	0.004139

EXISTING

ON-SITE	Q-100 CFS	Q-10 CFS	TREATMENT A, B, C, D
OFFSITE	0.39	0.13	0%, 100%, 0%, 0%
ON-SITE	8.35	4.51	0%, 64%, 0%, 36%

PROPOSED

ON-SITE	Q-100 CFS	Q-10 CFS	TREATMENT A, B, C, D
OFFSITE	0.39	0.13	0%, 100%, 0%, 0%
ON-SITE	11.82	7.65	0%, 10%, 0%, 90%

AHYMO INPUT FILE

```
*
* ZONE 2
*
*****
*          100-YEAR,  6-HR STORM (UNDER EXISITNG 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

* OFFSITE
COMPUTE NM HYD ID=1 HYD NO=101.0 AREA=0.000317 SQ MI
               PER A=100.00 PER B=100.00 PER C=0.00 PER D=0.00
               TP=0.1333 HR MASS RAINFALL=-1

* ONSITE
COMPUTE NM HYD ID=1 HYD NO=103.0 AREA=0.004139 SQ MI
               PER A=0.00 PER B=64.00 PER C=0.00 PER D=36.00
               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

* ONSITE
COMPUTE NM HYD ID=1 HYD NO=104.0 AREA=0.004139 SQ MI
               PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00
               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

* OFFSITE
COMPUTE NM HYD ID=1 HYD NO=111.0 AREA=0.000317 SQ MI
               PER A=100.00 PER B=100.00 PER C=0.00 PER D=0.00
               TP=0.1333 HR MASS RAINFALL=-1

* ONSITE
COMPUTE NM HYD ID=1 HYD NO=113.0 AREA=0.004139 SQ MI
               PER A=0.00 PER B=64.00 PER C=0.00 PER D=36.00
               TP=0.1333 HR MASS RAINFALL=-1
*
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*****
*          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
*  ONSITE
COMPUTE NM HYD ID=1 HYD NO=114.0 AREA=0.004139 SQ MI
               PER A=0.00 PER B=10.00 PER C=0.00 PER D=90.00
               TP=0.1333 HR MASS RAINFALL=-1
*
FINISH
```

SUMMARY OUTPUT FILE

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = 200227

- VERSION: 1997.02d

RUN DATE (MON/DAY/YR) =09/19/2002
USER NO.= AHYMO-I-9702c01000R31-AH

[illegible]

SD/WK Flow Calculations

Orifice Equation: $Q = CA\sqrt{2gh}$

$Q = 12.21$ cfs (maximum runoff)

$C = 0.6$

$g = 32.20$

$h = 2.00'$ (PONDING CAPACITY AT THE BACK OF THE CULVERT)

Curb Opening = $4.00'$ (2-2' SD/WK CULVERT)

$A = 4.00 \times 0.67 = 2.68$ sf

$Q = 0.60 \times 2.68\sqrt{2 \times 32.2 \times 2.0}$

$Q = 18.25$ cfs > 12.21 cfs

Therefore, using 2-2' SD/WK Culvert should be adequate for the discharge of proposed runoff.

Rectangular Channel Analysis & Design
Open Channel - Uniform flow

Worksheet Name: \ 2.00' Wide x 1.50' Deep Channel

Comment:

Solve For Discharge

Given Input Data:

Bottom Width.....	2.00 ft
Manning's n.....	0.013
Channel Slope....	0.0050 ft/ft
Depth.....	1.50 ft

Computed Results:

Discharge.....	17.25 cfs
Velocity.....	5.75 fps
Flow Area.....	3.00 sf
Flow Top Width...	2.00 ft
Wetted Perimeter.	5.00 ft
Critical Depth...	1.32 ft
Critical Slope...	0.0069 ft/ft
Froude Number....	0.83 (flow is Subcritical)

Rectangular Channel Analysis & Design
Open Channel - Uniform flow

Worksheet Name: \ 1.30' wide x 1.50' Deep Channel

Comment:

Solve For Discharge

Given Input Data:

Bottom Width.....	1.30 ft
Manning's n.....	0.013
Channel Slope....	0.0050 ft/ft
Depth.....	1.50 ft

Computed Results:

Discharge.....	9.30 cfs
Velocity.....	4.77 fps
Flow Area.....	1.95 sf
Flow Top Width...	1.30 ft
Wetted Perimeter.	4.30 ft
Critical Depth...	1.17 ft
Critical Slope...	0.0092 ft/ft
Froude Number....	0.69 (flow is Subcritical)



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Planning Department

Transportation Development Services Section

October 22, 2002

James Clark, Registered Architect
516 11th Street NW
Albuquerque, NM 87102-1640

Re: Traffic Circulation Layout (TCL) Submittal for Building Permit Approval for
Utility Trailer of Colorado, [H157/D30B]—
2516 University Boulevard NE
Architects Stamp Dated undated, received Sept. 30, 2002

Dear Mr. Clark:

The TCL submittal, dated Sept. 30, 2002, is sufficient for acceptance by this office and is stamped and signed as such. Four copies will be required: two for submittal of building permit plans, one for this office and one to be kept by you to be used for certification of the site for final C.O. for Hydrology/Transportation.

A copy of the approved TCL, marked up, showing incomplete work remaining, along with a letter of certification is required prior to issuance of Temporary C.O.

When site is complete and a Final C.O. is needed, a Letter of Certification, stating site was built in substantial compliance, needs to be attached to your stamped, approved TCL letter or TCL must be stamped with the designer's seal for the certification. Seal must be signed and dated for that submittal. This and all documentation must be submitted with a completed Drainage Information Sheet (also used for the Grading and Drainage submittal) to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. to confirm that Final C.O. has been issued to the superintendent, call Building Safety at 924-3306.

Sincerely,

Richard Dourte, PE
Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
Hydrology file
Mike Zamora

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 1/11/2002)

H-15/D30B

PROJECT TITLE: UTILITY TRAILER OF COLORADO ZONE MAP/DRG. FILE #: H-152
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: PARCEL 3 MANUAL DEVELOPMENT AREA
CITY ADDRESS: 2516 UNIVERSITY BLVD NE

ENGINEERING FIRM: ADVANCED ENGINEERING
ADDRESS: 10205 SNOWFLAKE CT.
CITY, STATE: ALBQ, N.M. 87114

CONTACT: SHAHAB BIAZAR
PHONE: 899-5570
ZIP CODE: 87114

OWNER: SADLER SOUTHWEST LTD
ADDRESS: P.O. Box 21640
CITY, STATE: ALBQ, N.M.

CONTACT: LOU SADLER
PHONE: 856-7939
ZIP CODE: 87154-1640

ARCHITECT: MASTERWORKS ARCHITECTS.
ADDRESS: 516 11th ST. N.W.
CITY, STATE: ALBQ, N.M.

CONTACT: JIM CLARK.
PHONE: 242-1866
ZIP CODE: 87102-1806

SURVEYOR: SAME AS ENGINEER
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: SADLER SOUTHWEST LTD.
ADDRESS: P.O. Box 21640
CITY, STATE: ALBQ, N.M.

CONTACT: LOUIS SADLER
PHONE: 856-7939
ZIP CODE: 87154-1640

CHECK TYPE OF SUBMITTAL:

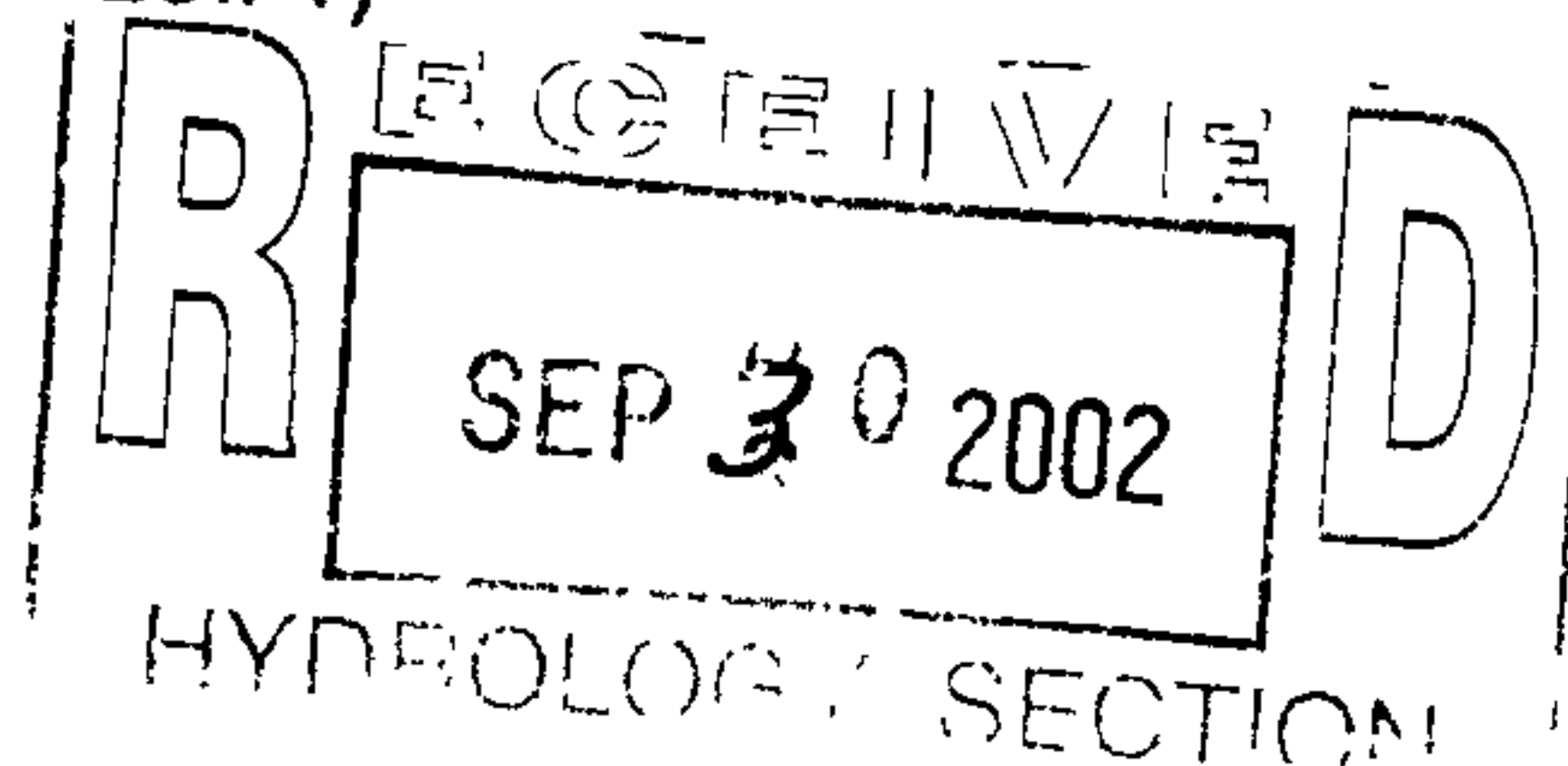
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☒ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ 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 (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 9/30/02 BY: [Signature]

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.