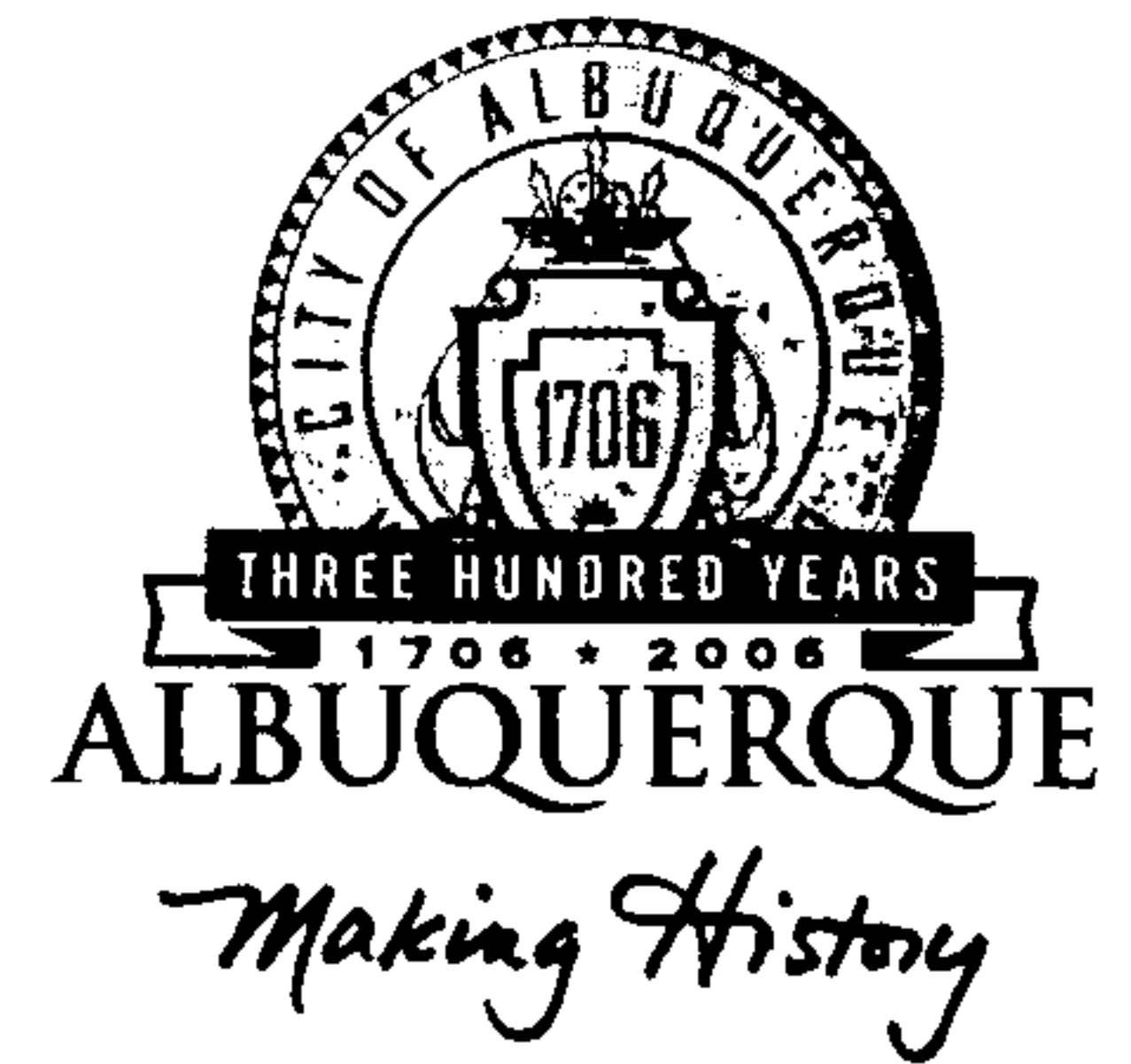


CITY OF ALBUQUERQUE



January 10, 2006

Mr. Larry Read, P.E.
LARRY READ & ASSOCIATES
2430 Midtown Place NE
Albuquerque, NM 87107

Re: FIRE STATION # 5
123 Dallas Street NE
Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 02/12/2004 (K-19/D86)
Certification dated 11/14/2005

Dear Larry:

Based upon the information provided in your submittal received 01/10/2006, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3982.

Sincerely,

Arlene V. Portillo
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

C: CO Clerk
File

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Fire Station #5 Replacement

DRB #: _____

EPC#: _____

ZONE MAP/DRG. FILE #: K-19/D86

WORK ORDER#: 6869.02

LEGAL DESCRIPTION: Lot 10, Fire Station #5

CITY ADDRESS: 123 Dallas NE

ENGINEERING FIRM: Larry Read & Associates, Inc.

ADDRESS: 4800 Juan Tabo Blvd. NE Suite C

CITY, STATE: Albuquerque, New Mexico

CONTACT: Larry Read

PHONE: 237-8421

ZIP CODE: 87111

OWNER: _____

ADDRESS: _____

CITY, STATE: _____

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: _____

CHECK TYPE OF SUBMITTAL:

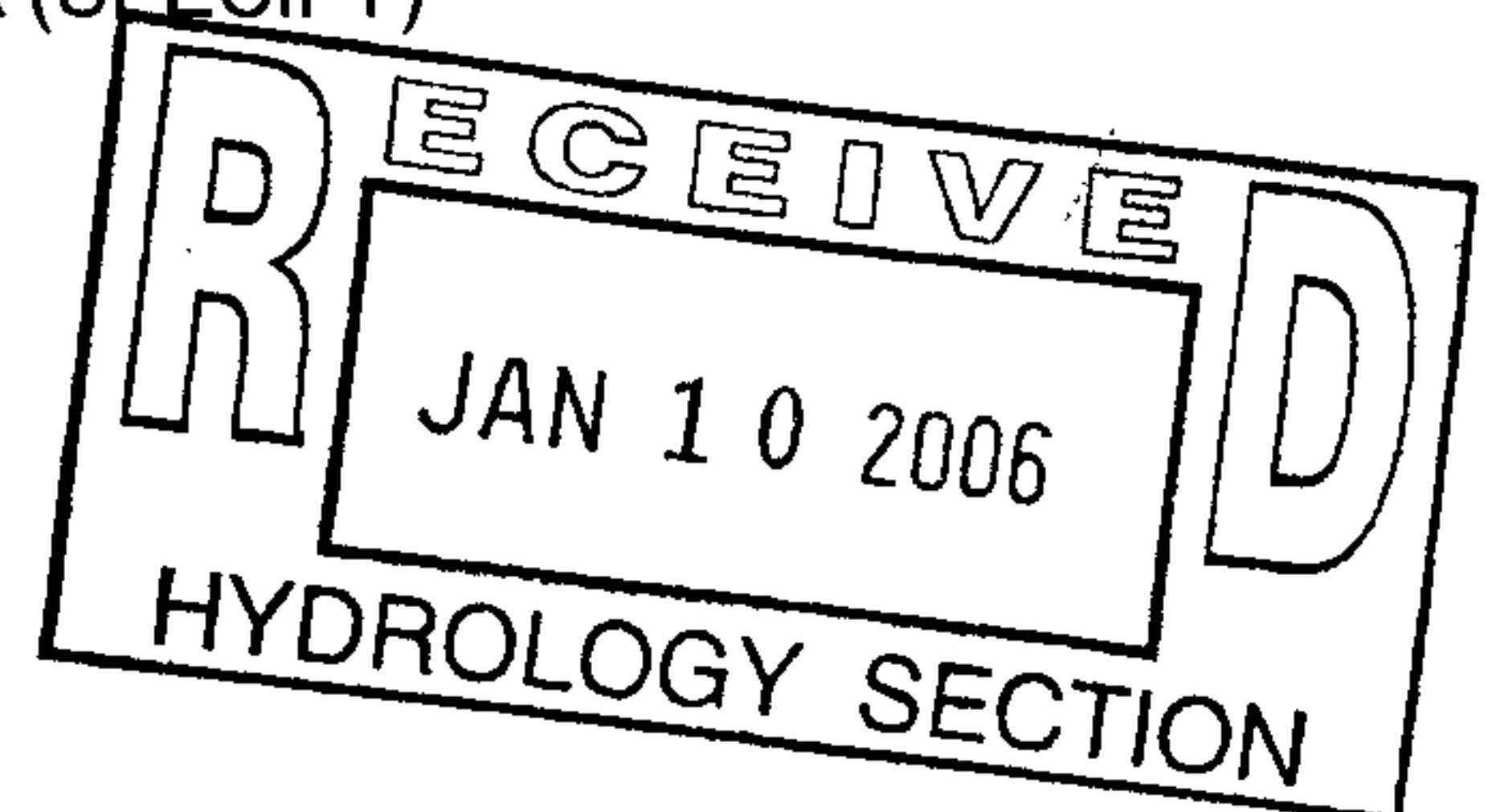
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (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



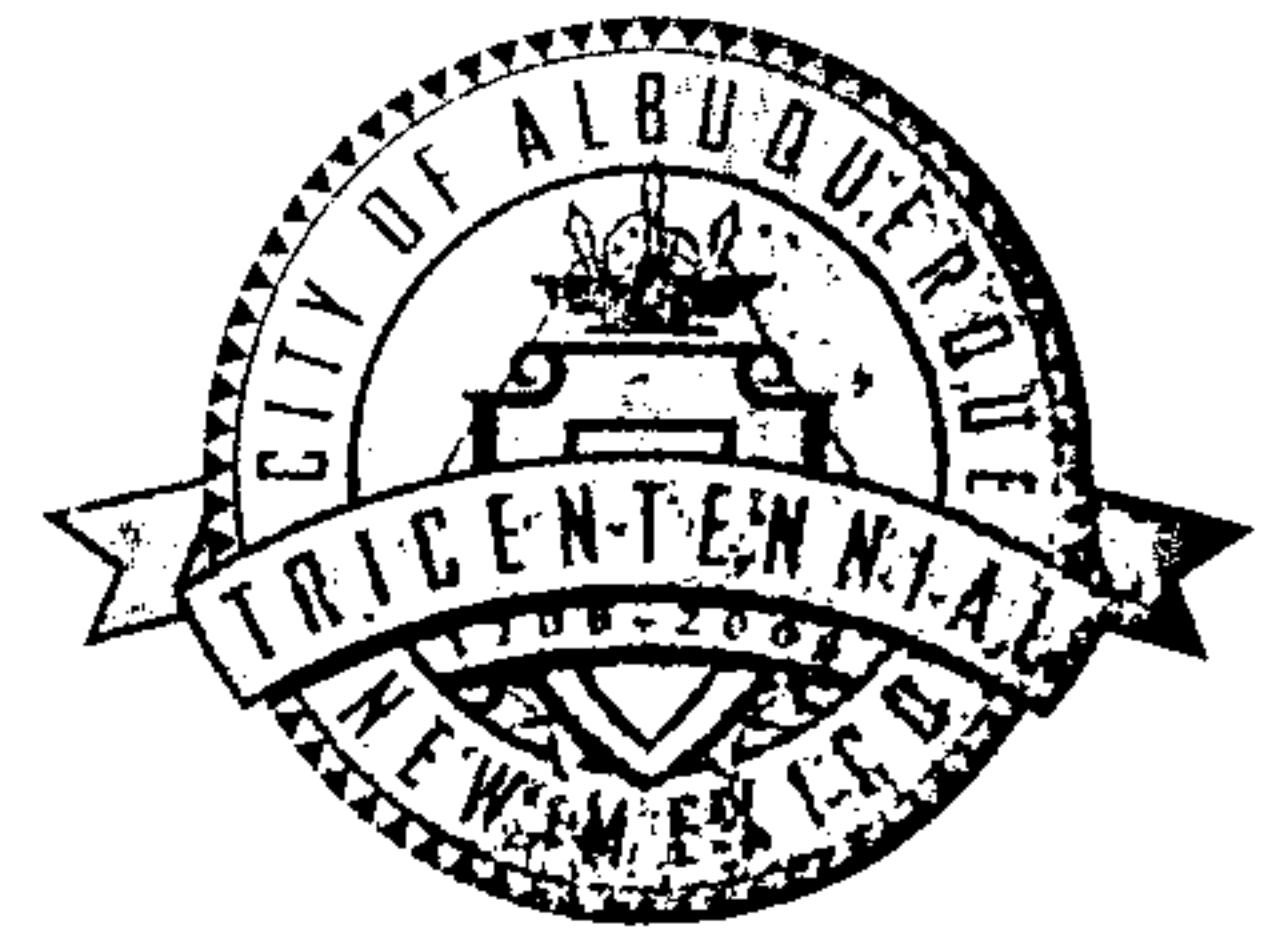
DATE SUBMITTED: December 28, 2005

BY: Larry D. Read, PE

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 (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

CITY OF ALBUQUERQUE



**Planning Department
Transportation Development Services Section**

June 23, 2006

Don Howard May, Registered Architect
400 Gold Ave SW, Ste. 1100
Albuquerque, NM 87102

Re: Certification Submittal for Final Building Certificate of Occupancy for
Albuquerque Fire Station #5, [K19/ D86]
123 Dallas NE
Architect's Stamp Dated 06/23/06

Dear Mr. May:

The TCL / Letter of Certification submitted on June 23, 2006 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
Hydrology file
CO Clerk

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 12/2005)

PROJECT TITLE: Albuquerque Fire Station #5 ZONE MAP/DRG. FILE # K-19-7 **D86**
DRB#: 1002796 EPC#: 1002796 WORK ORDER#: 686902

LEGAL DESCRIPTION: Lots 8, 9, 10 & 11 Kay Addition and Lots 8, 9, 10 Block 4, Loma Verde

CITY ADDRESS: 123 Dallas NE

ENGINEERING FIRM: LRA and Associates
ADDRESS: 4800 Juan Tabo NE
CITY, STATE: Albuquerque, New Mexico

CONTACT: Larry Read, P.E.
PHONE: (505) 237-8421
ZIP CODE: 87111

OWNER: City of Albuquerque Fire Department
ADDRESS: 11510 Sunset Gardens SW
CITY, STATE: Albuquerque, New Mexico

CONTACT: Fire Chief Robert Ortega
PHONE: (505) 833-7300
ZIP CODE: 87121

ARCHITECT: Rohde May Keller McNamara Architecture P.C.
ADDRESS: 400 Gold SE - Studio 1100
CITY, STATE: Albuquerque, New Mexico

CONTACT: Don H. May, A.I.A.
PHONE: 243-5454
ZIP CODE: 87102

SURVEYOR: Cartesian Surveys
ADDRESS: P.O. Box 44414
CITY, STATE: Rio Rancho, New Mexico

CONTACT: Will Plotner, Jr.
PHONE: (505) 896-3050
ZIP CODE: 87121

CONTRACTOR: Famco, Inc.
ADDRESS: P.O. Box 14658
CITY, STATE: Albuquerque, New Mexico

CONTACT: Rob Winebrenner
PHONE: (505) 242-4011
ZIP CODE: 87125

TYPE OF SUBMITTAL:

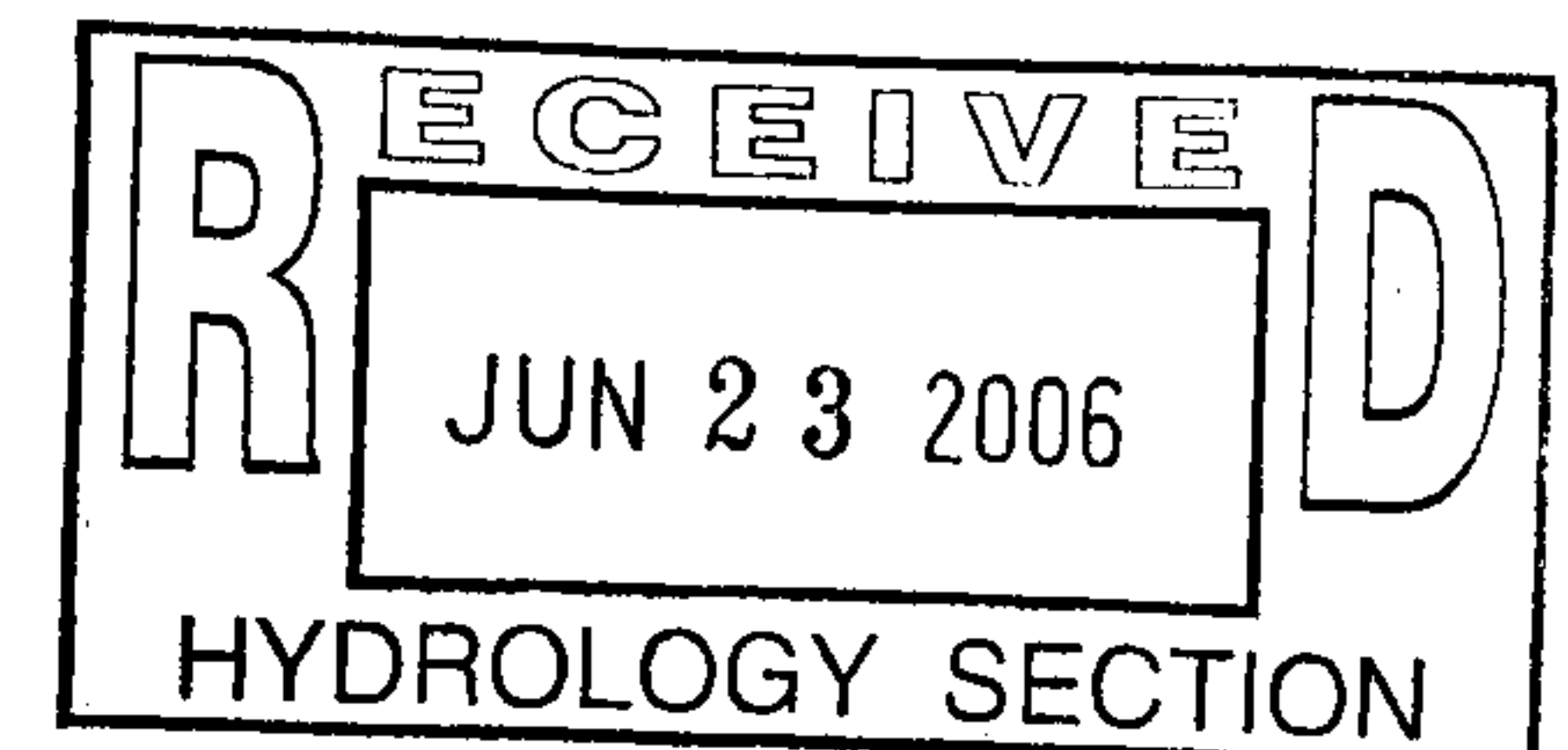
☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☒ ENGINEER'S/ARCHITECT'S CERT (TCL)
☐ ENGINEER'S CERT (DRB SITE PLAN)
☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
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☒ 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



SUBMITTED BY: Don H. May, A.I.A. DATE: June 23, 2006

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to 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 (5) acres and Sector Plans.
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ROHDE MAY KELLER McNAMARA
ARCHITECTURE

June 23, 2006

TRAFFIC CERTIFICATION

I, Don H. May, A.I.A. Of the firm Rohde May Keller McNamara Architecture, P.C.,
Hereby certify that this project is in substantial compliance with and in
accordance with the design intent of the DRB, approved plan dated March 15,
2004. I further certify that I have personally visited the project site on numerous
occasions and have determined by visual inspection that the survey data
provided is representative of actual site conditions and is true and correct to the
best of my knowledge and belief. This certification is submitted in support of a
request for Certificate of Occupancy.

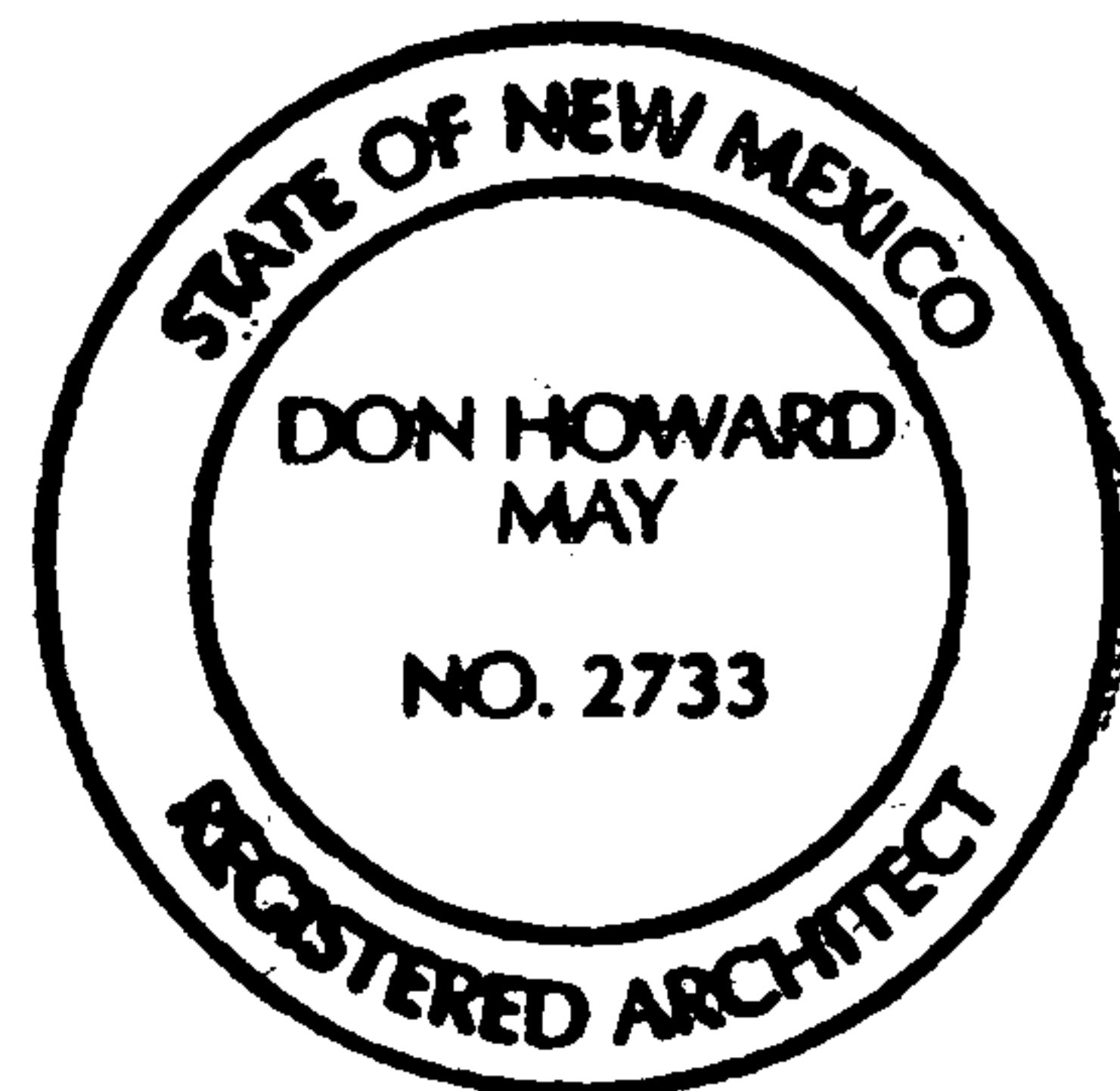
The record information presented hereon is not necessarily complete and
intended only to verify substantial compliance if the traffic aspects of this project.
Those relying on the record document are advised to obtain independent
verification of its accuracy before using it for any other purpose.



Don H. May, A.I.A., Architect
Principal-in-Charge
Rohde May Keller McNamara Architecture, P.C.

23 June 2006
Date

ARCHITECT'S STAMP



SIMMSTOWER

STUDIO 1100

400 Gold Avenue SW

Albuquerque

New Mexico 87102 USA

tel (505)243-5454

fax (505)243-5858

email rmkmarch.com



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 9, 2004

Larry D. Read, PE
Larry Read & Associates
4800-C Juan Tabo NE
Albuquerque, NM 87111

Re: Fire Station 5 Drainage Report
Engineer's Stamp dated 2-12-04, (K19/D86)

Dear Mr. Read,

Based upon the information provided in your submittal dated 3-29-04, the above referenced plan 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 Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, please contact me at 924-3986.

Sincerely,

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

C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

K-19/D86

PROJECT TITLE: Fire Station #5 Replacement
DRB #: _____ EPC#: _____

ZONE MAP/DRG. FILE #: K-19
WORK ORDER#:

LEGAL DESCRIPTION: Lot 10, Fire Station #5
CITY ADDRESS: 123 Dallas NE

ENGINEERING FIRM: Larry Read & Associates, Inc.
ADDRESS: 4800 Juan Tabo Blvd. NE Suite C
CITY, STATE: Albuquerque, New Mexico

CONTACT: Larry Read
PHONE: 237-8421
ZIP CODE: 87111

OWNER: _____
ADDRESS: _____
CITY, STATE: _____

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:

CHECK TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ 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

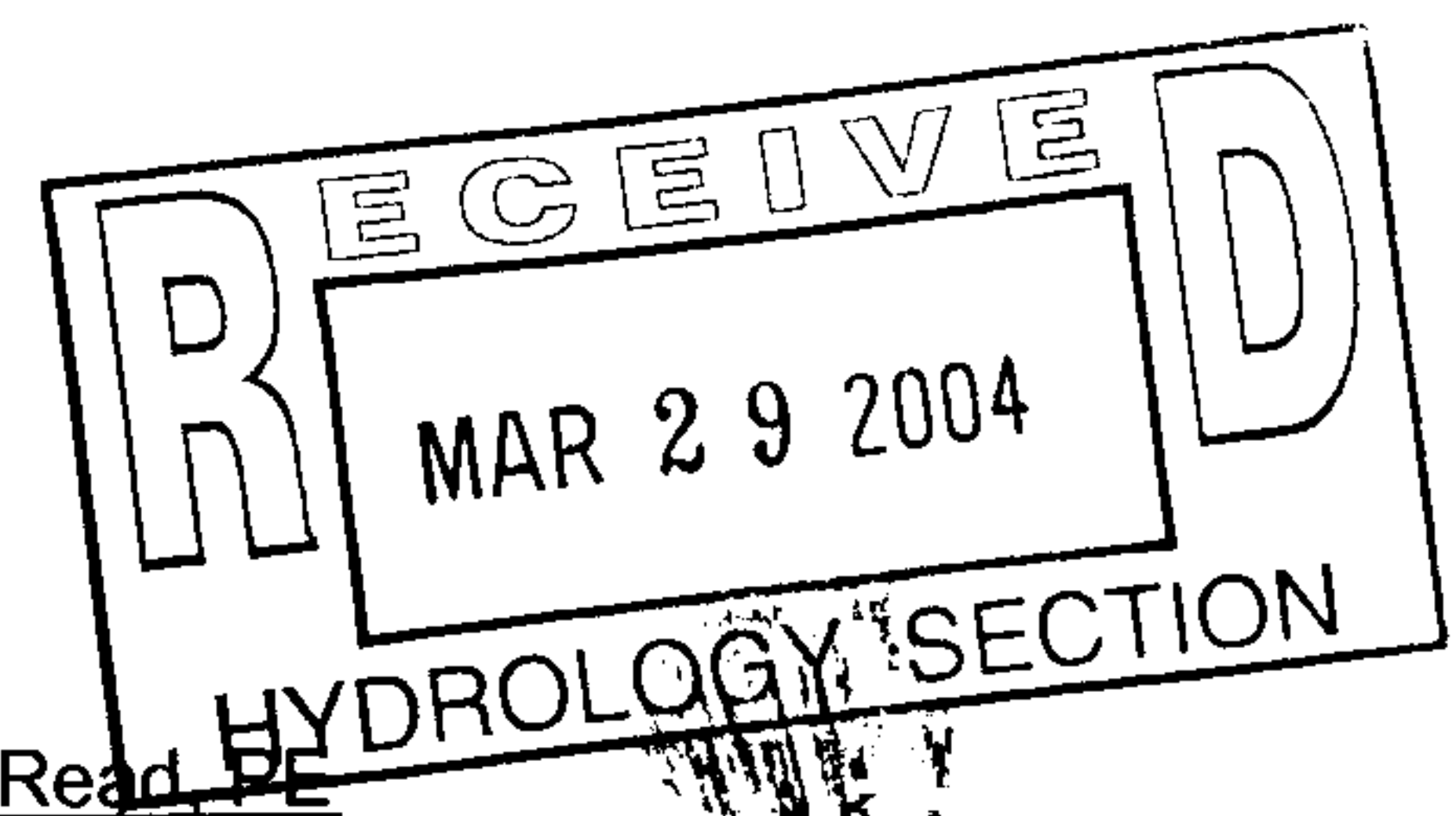
- ☐ SIA / FINANCIAL GUARANTEE RELEASE
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- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
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- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: March 26, 2004

BY: Larry D. Read, PE



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:

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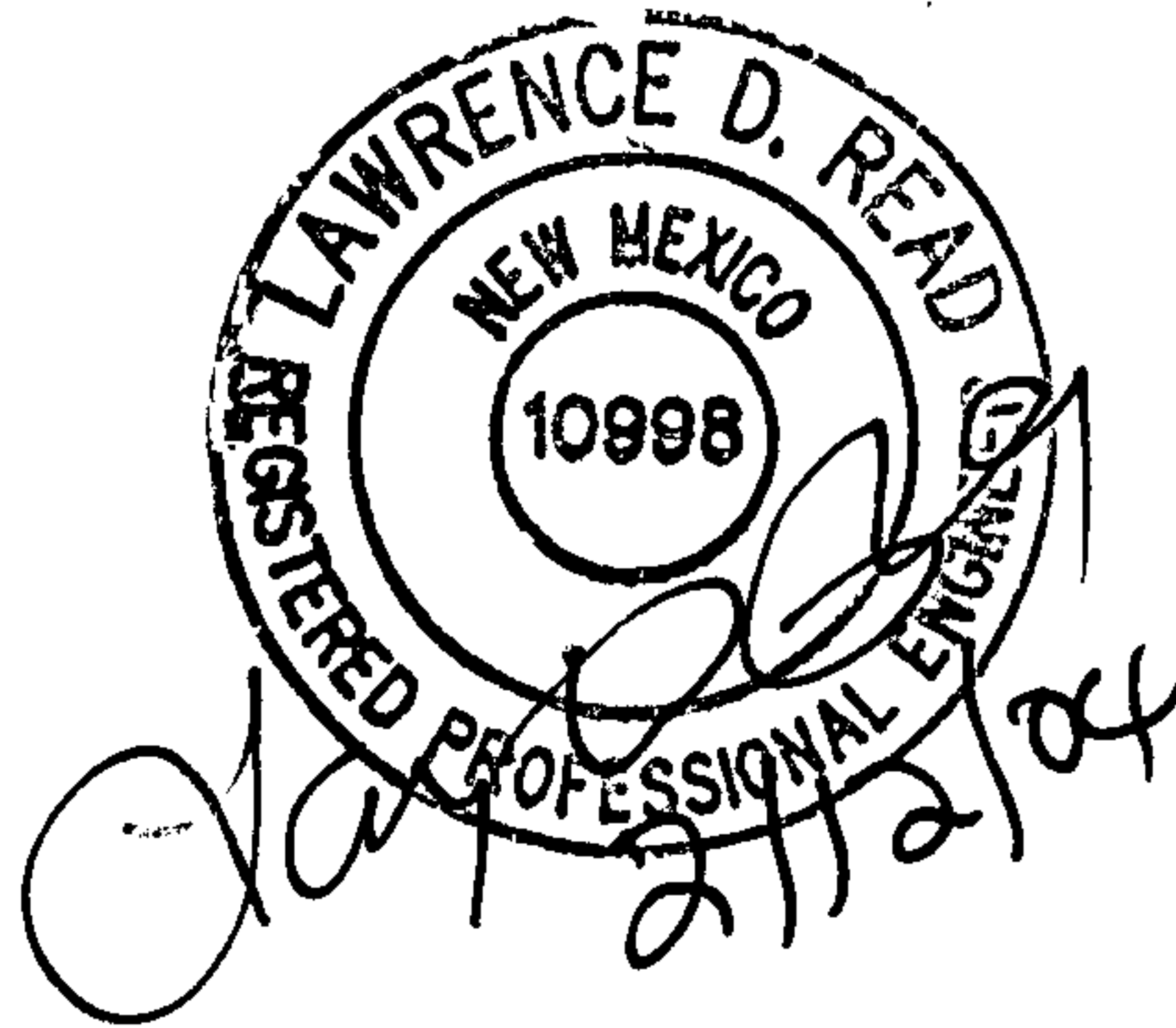
DRAINAGE REPORT

for

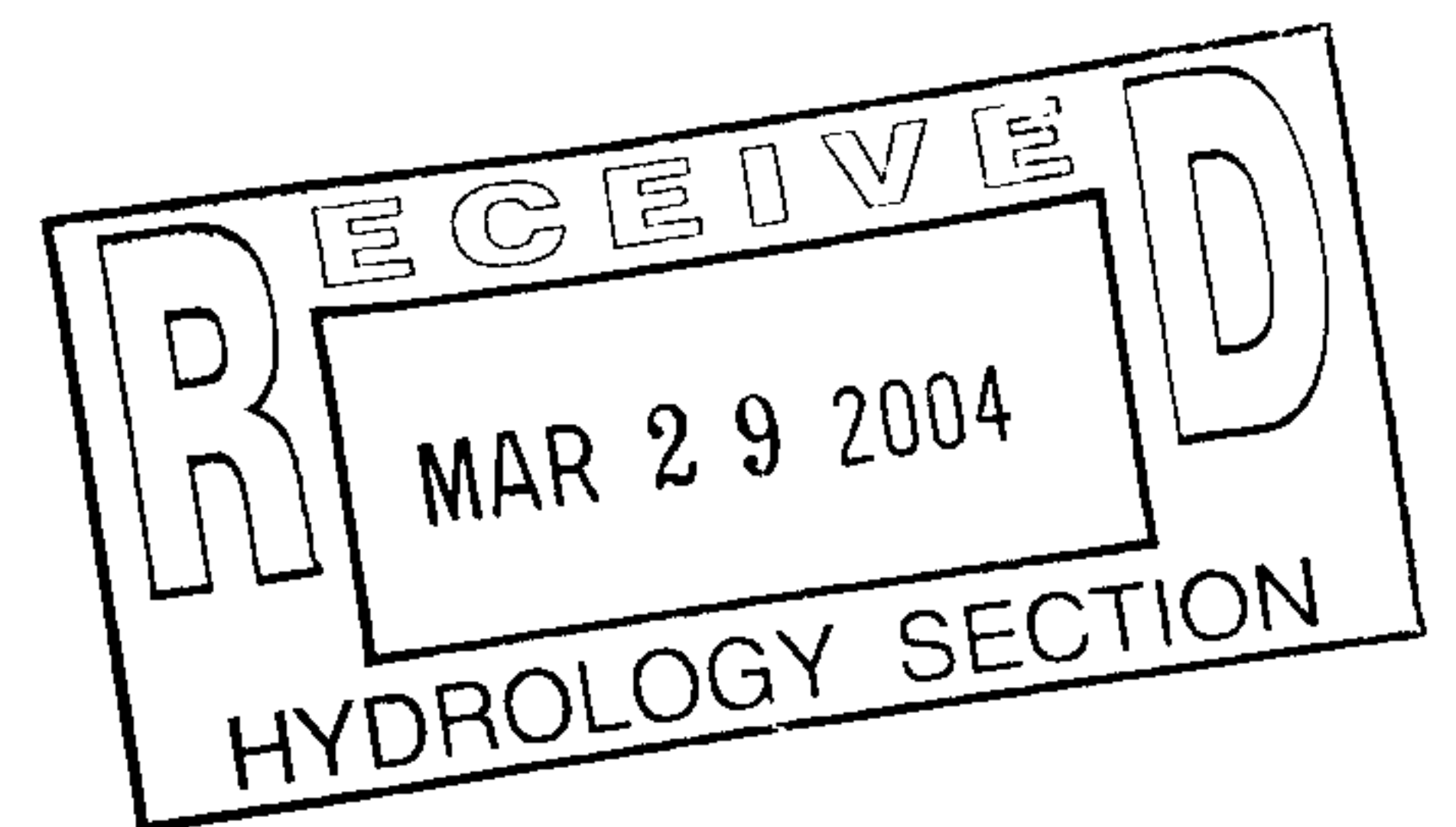
***CITY OF ALBUQUERQUE FIRE DEPARTMENT
STATION # 5 REPLACEMENT***

ALBUQUERQUE, NEW MEXICO

February 2004



Prepared by
Larry D. Read, P.E.
4800 Juan Tabo Blvd. N.E.
Suite C
Albuquerque, New Mexico 871113
(505) 237-8421 Fax (505) 237-8422



K-19/D86

TABLE OF CONTENTS

<u>Item</u>	<u>Description</u>	<u>Page Number</u>
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•	Methodology.....	1
•	Precipitation.....	1
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2	FIRM Map	3

POCKETS

	Grading and Drainage Plan.....	Pocket 1
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DRAINAGE REPORT

for

CITY OF ALBUQUERQUE FIRE DEPARTMENT STATION # 5 REPLACEMENT

ALBUQUERQUE, NEW MEXICO

February 2004

LOCATION & DESCRIPTION

The City of Albuquerque Fire Department is proposing to demolish the existing Fire Station #5 on Chico Road NE and Dallas Street NE as shown on the Vicinity Map (**Exhibit 1**). The site is made up of several small parcels in addition to current fire station site. The development on all of the parcels includes the existing fire station plus several old small, industrial type buildings. These parcels will be replatted into one 0.86 acre parcel to accommodate the proposed larger fire station.

The proposed development includes the construction of an 10,160 square foot building, with approximately 14,054 square feet of paved parking, access drives, and concrete sidewalks and patios.

FLOODPLAIN STATUS

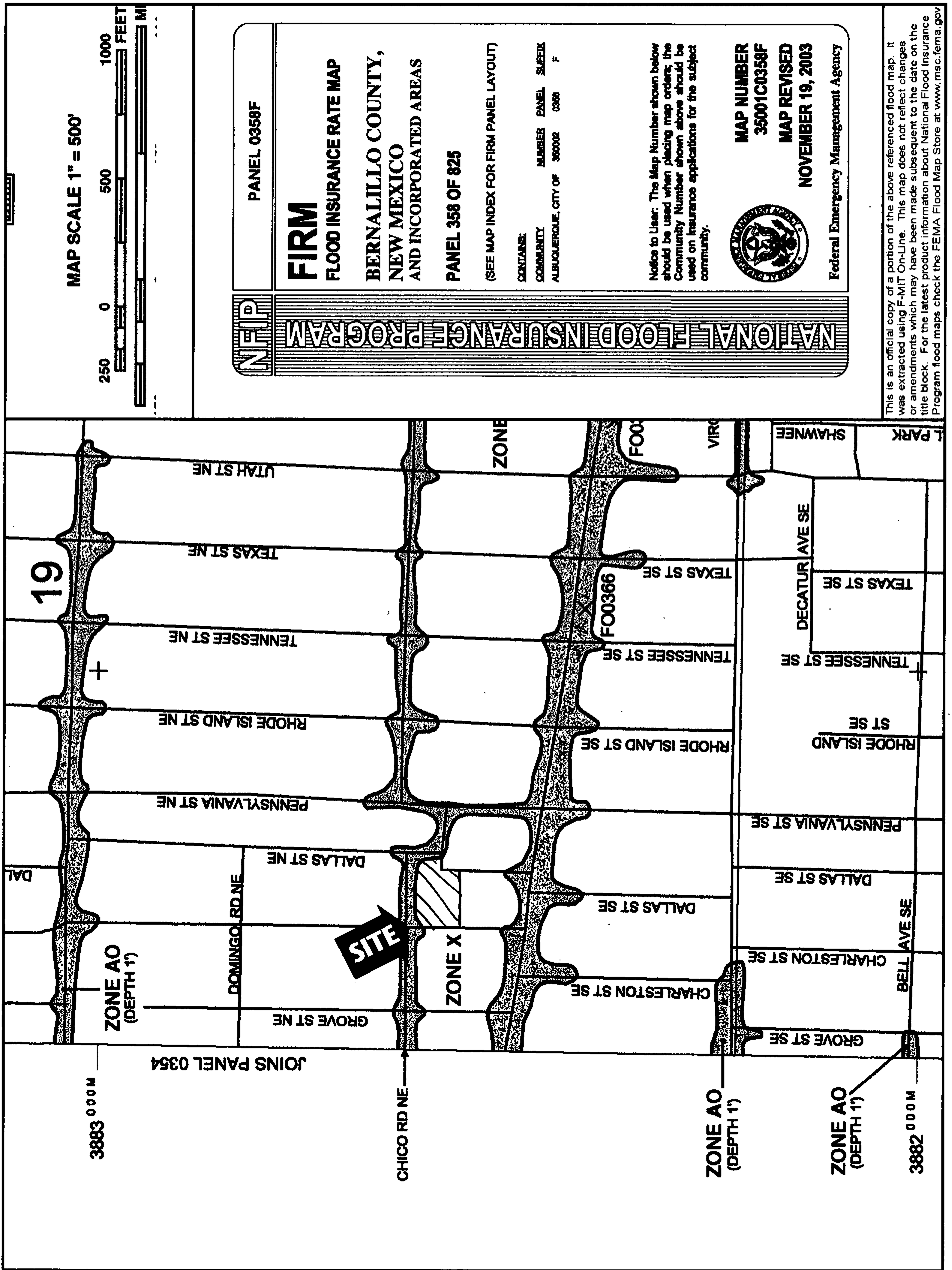
This project, as shown on FEMA's Flood Insurance Rate Map 35001C0358 F, dated November 19, 2003, is bordered by a flood zone "AO-Depth 1" 100-year floodplain. **Exhibit 2** is a copy of this flood insurance map with the project area delineated.

METHODOLOGY

The hydrology for this project was analyzed using the Quick Calculations of the June 1997 release of the City of Albuquerque Development Process Manual, Section 22.2. **Table 1** summarizes these calculations.

PRECIPITATION

The 100-yr 6-hour duration storm was used as the design storm for this analysis. For this design storm the calculations require the 6-hour storm. In addition Excess Precipitation and Peak Discharge values for Zone 3 have to be input from tables within of the City of Albuquerque Development Process Manual, Section 22.2.



EXISTING DRAINAGE

The existing site is divided into two drainage basins as shown on the Grading Plan in the pocket at the end of this report. The basins have been delineated based on the proposed development instead of the existing development because the existing is so flat that existing drainage patterns are almost impossible to delineate. The existing site includes the existing fire station on the northeast corner of the site, three industrial type buildings on the southern portion of the site close to Dallas, and large paved and graveled parking/storage areas on the southern portion of the site near Charleston.

As discussed in Floodplain Status Above, the site is bounded by Zone AO-Depth 1' floodplains on the east side (Dallas) and north side (Chico). Most of the existing development appears to be slightly above the 1-foot deep flood elevation.

FULLY DEVELOPED CONDITION

The proposed development, as described above, has been designed to comply with the City requirement for finish floor elevations to be a minimum on 1-foot above the flood elevation. As agreed with Mr. Carlos Montoya, PE, the finished floor elevation was set at 1-foot above the flood elevation (2-feet above gutter flowline) at the center of the proposed building along Chico Road NE on the north side of the site.

The proposed parking lot on the east side of the building has been designed with a water block to help divert any stormwater that enters the site from Dallas Street north into Chico as it would currently flow. Additionally, a diversion wall has been designed between the parking lot and building to provide additional protection from any stormwater entering the site from Dallas Street.

The proposed design directs all runoff from the roof and eastern parking lot (Basin A) north into Chico Road. The runoff from the roof is conveyed in an internal roof drain system where it discharges, via 4" curb drains through the curbs into Chico Road. The parking lot discharges into Chico Road via a sidewalk culvert. Stormwater from the proposed southern parking lot, west driveway, and east driveway discharge into Charleston Street. The east driveway drains west to a valley gutter that directs the runoff south into a lined swale and into the southern parking lot where it combines with runoff from that parking lot and discharges in Charleston Street through a sidewalk culvert. The west driveway discharges into Charleston Street directly through the curb cut. There are two small roof areas on the south end of the building that discharge south into the southern parking lot. They cannot be routed north with the rest of the roof area because they are too low.

The impact due to this proposed development on adjacent property is minimal since the total runoff from the site is only slightly increased from existing and the runoff is directed into the adjacent street sections as the existing runoff does and is similar with any infill development project.

100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED	V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(24 hour) (acre-ft)	V(24 hour) (cu-ft)	Q (cfs)
		A (%)	B (%)	C (%)	D (%)	E (in)					
EXISTING CONDITIONS											
BASIN A	0.4383	0.00	17.06	36.58	46.36	1.72	0.06	2,741	0.07	3,110	1.77
BASIN B	0.4217	0.00	0.00	0.00	100.00	2.36	0.08	3,613	0.10	4,378	2.12
PROPOSED CONDITIONS											
BASIN A	0.4383	0.00	12.75	12.76	74.49	2.04	0.07	3,245	0.09	3,838	1.98
BASIN B	0.4217	0.00	19.24	46.15	34.61	1.59	0.06	2,433	0.06	2,698	1.62
INCREASE											0.29
EXCESS PRECIP.		0.66	0.92	1.29	2.36	E _i (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q _{pi} (cfs)					
WEIGHTED E (in) = (E _A)(%A) + (E _B)(%B) + (E _C)(%C) + (E _D)(%D)											
V _{6-HR} (acre-ft) = (WEIGHTED E)(AREA)/12											
V _{10DAY} (acre-ft) = V _{6-HR} + (A _D)(P _{10DAY} - P _{6-HR})/12											
Q (cfs) = (Q _{PA})(A _A) + (Q _{PB})(A _B) + (Q _{PC})(A _C) + (Q _{PD})(A _D)											
ZONE = 3											
P _{6-HR} (in.) = 2.60											
P _{24-HR} (in.) = 3.10											
P _{10DAY} (in.) = 4.90											