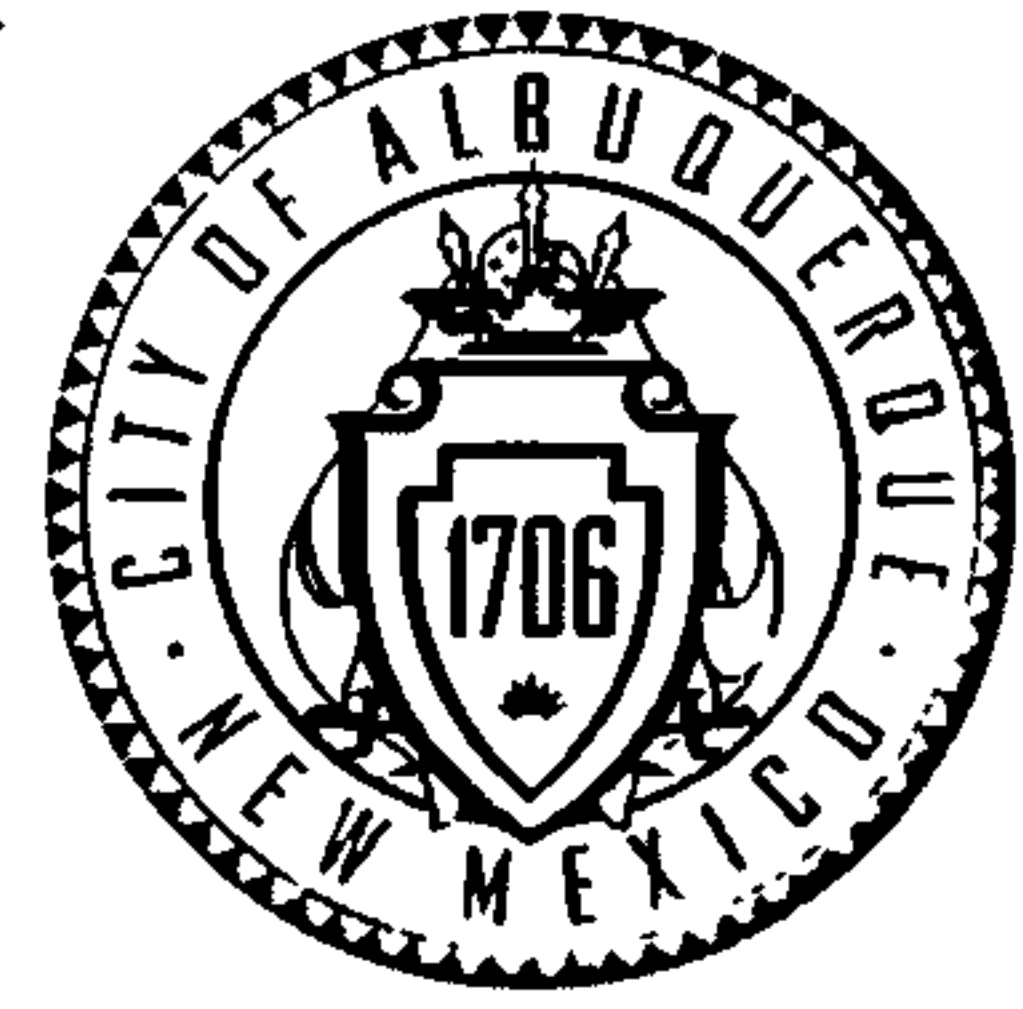


# CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



November 1, 2013

Richard J. Berry, Mayor

Fred C. Arfman, P.E.  
Isaacson & Arfman, P.A.  
128 Monroe Street N.E.  
Albuquerque, New Mexico 87108

Re: New Day Expansion – 2820 Ridgecrest S.E.  
Request for Permanent C.O. – **Accepted**  
Engineer's Stamp dated: 02-07-2013  
Certification dated: 10-29-13

**M18/D014**

Dear Mr. Arfman,

Based upon the information provided in your Certification received 10-30-2013, supplemented by the As-Built Pond Volume calculations you submitted today, the **above referenced Certification is acceptable for a release of a Permanent Certificate of Occupancy by Hydrology.**

PO Box 1293

If you have questions, please email me at [grolson@cabq.gov](mailto:grolson@cabq.gov) or phone 505-924-3994.

Albuquerque

Sincerely,

New Mexico 87103

Gregory R. Olson, P.E.  
Senior Engineer  
Development and Building Services

[www.cabq.gov](http://www.cabq.gov)

Orig: Drainage file **M18 / D014**  
c.pdf Addressee via Email [FredA@iacivil.com](mailto:FredA@iacivil.com)  
eC: Katrina Sigala, Planning - CO Clerk  
Francis Connor, Building Services



Olson, Greg

From: Fred Arfman [freda@iacivil.com]  
Sent: Friday, November 01, 2013 2:46 PM  
To: Olson, Greg  
Subject: New Day Shelter  
Importance: High  
Attachments: image002.jpg

Greg,

I hope this format is acceptable for conveying the requested information on the subject project.

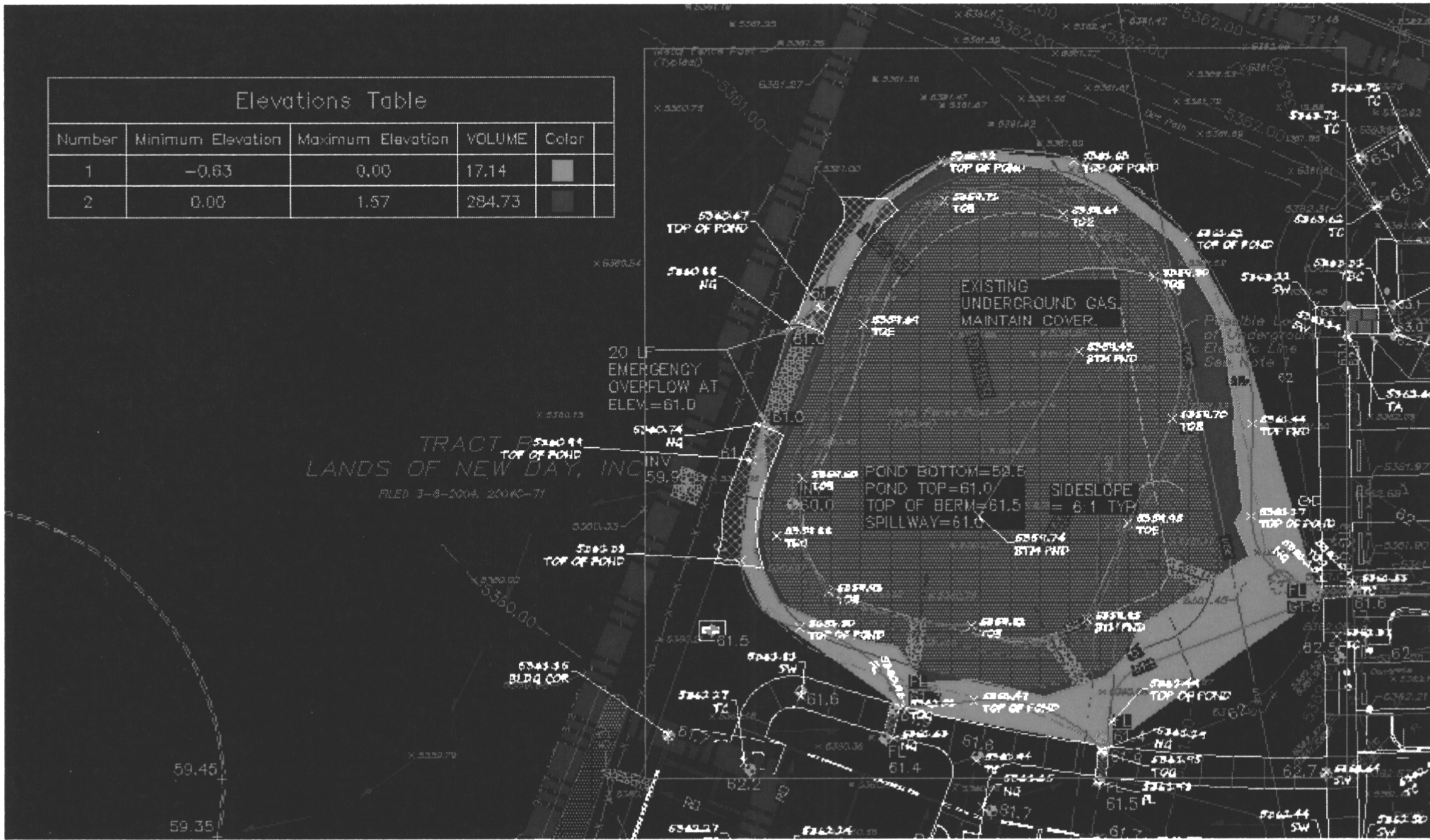
Based on Civil 3D volume analysis using the as-built information provided by the surveyor, the as-built pond volume with a spillway elevation of 61.0 has an available volume of 285 CY = 7,695 CF (see image below) which exceeds the required volume.

Per the approved Drainage Concept:

BASIN 2 INCLUDES THE NORTHERN PORTION OF THE PROPERTY INCLUDING PARKING, LANDSCAPE AND APPROXIMATELY 25% OF THE PROPOSED BUILDING ADDITION. THIS BASIN WILL GENERATE APPROXIMATELY 3.9 CFS (6203 CF VOLUME) DURING THE 100-YEAR 6-HOUR STORM. ALL OF BASIN 2 DISCHARGE WILL BE PASSED TO THE PROPOSED NORTH DETENTION POND (AVAILABLE VOLUME = 7,743 CF PROVIDING ADDITIONAL CAPACITY FOR FUTURE DEVELOPMENT). THIS POND WILL DRAIN TO BULLHEAD PARK VIA THE PROPOSED 6" STORM DRAIN.

The as-built pond has been constructed with a volume exceeding the required volume. In addition, excess volume is available for future construction. It should be noted that Basin 2 for this phase of construction, generates 6,203 CF. The pond design did not take into account the inflow / outflow hydrograph (0.8 cfs discharge rate from the pond).

Fred



Fred C. Arfman, P.E.  
Principal/ President



Isaacson & Arfman, P.A.  
Consulting Engineering Associates  
128 Monroe St. N.E.  
Albuquerque, NM 87108  
Phone: (505)268-8828  
Fax: (505)268-2632  
[freda@iacivil.com](mailto:freda@iacivil.com)

**CONFIDENTIALITY STATEMENT and CONTENT NOTIFICATION** : This message and any accompanying attachment(s) contain information which may be confidential or privileged and is intended only for the individual or entity named above. It is prohibited to disclose, copy, or distribute the contents of this message. If you received this message in error, please notify us immediately.

Recipient acknowledges that any attached electronic files may not contain all of the information on the approved construction documents and are not intended to be relied upon as a replacement for the approved construction documents(s).

This information is provided to the user as a courtesy by I&A for this project only and shall not be used for any other purpose without the express written consent of Isaacson & Arfman, PA.

11/1/2013

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 12/05)

PROJECT TITLE: New Day Expansion ZONE MAP/DRG. FILE # M-18 / D014  
RB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: Westerly Portion of Tract A, Lands of New Day, Inc., City of Albuquerque, NM  
CITY ADDRESS: \_\_\_\_\_

ENGINEERING FIRM: ISAACSON & ARFMAN, PA CONTACT: Fred C. Arfman  
ADDRESS: 128 MONROE NE PHONE: 268-8828  
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87108

OWNER: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

ARCHITECT: Dekker Perich Sabatini CONTACT: Dan Monk, AIA  
ADDRESS: 7601 Jefferson NE PHONE: 761-4222  
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

SURVEYOR: Surv-Tek, Inc. CONTACT: Russ P. Hugs  
ADDRESS: 9384 Valley View Dr. NW PHONE: 897-3366  
CITY, STATE: Albuquerque, NM ZIP CODE: 87114

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

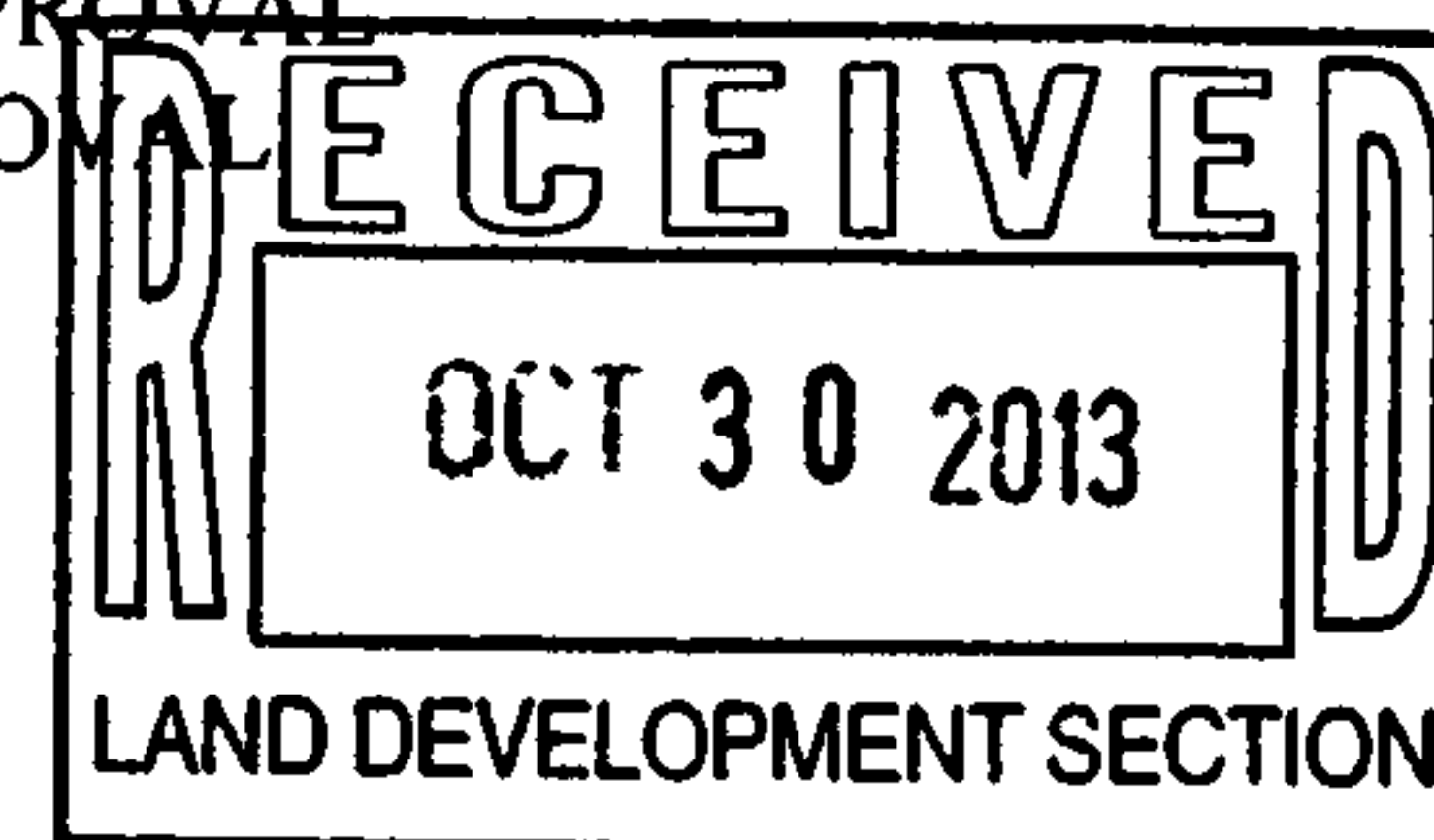
☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
☐ DRAINAGE PLAN RESUBMITTAL  
☐ CONCEPTUAL G & D PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☒ ENGINEER'S CERT (HYDROLOGY)  
☐ CLOMR/LOMR  
☐ TRAFFIC CIRCULATION LAYOUT  
☐ ENGINEER/ARCHITECT CERT (TCL)  
☐ ENGINEER/ARCHITECT CERT (DRB S.P.)  
☐ ENGINEER/ARCHITECT CERT (AA)  
☐ OTHER (SPECIFY) \_\_\_\_\_

## 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  
☐ 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

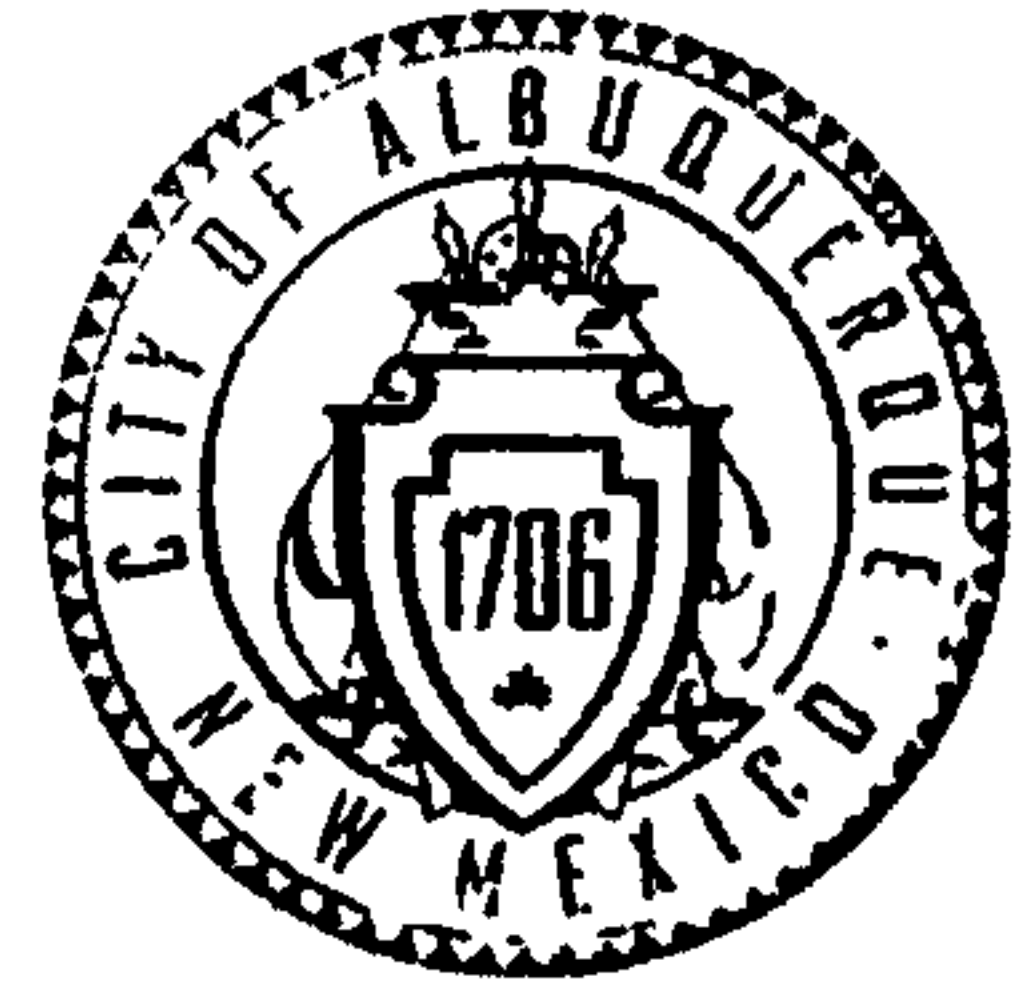


SUBMITTED BY: JA Fred Arfman DATE: 10/29/2013  
Isaacson & Arfman, P A

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 define 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more.

# CITY OF ALBUQUERQUE



**Planning Department  
Transportation Development Services Section**

October 2, 2013

Ronald A. Witherspoon, Registered Architect  
Dekker Perich Sabatini  
7601 Jefferson NE, Ste. 100  
Albuquerque, NM 87109

Re: Certification Submittal for Final Building Certificate of Occupancy for  
New Day Expansion, [M-18 / D014], DRB#1002624  
2820 Ridgecrest SE  
Architect's Stamp Dated 10/02/13

Dear Mr. Witherspoon:

PO Box 1293

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

Based upon the information provided in your submittal on 10/02/13, Transportation Development has no objection to the issuance of a **Permanent Certificate of Occupancy (C.O.)**. This letter serves as a "green tag" from Transportation Development for a **Permanent Certificate of Occupancy (C.O.)** to be issued by the Building and Safety Division.

If you have any question, please contact me at (505)924-3630.

Sincerely,

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

c: Engineer  
Hydrology file  
CO Clerk



**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(REV 12/2005)

0014

PROJECT TITLE: NEW DAY EXPANSION ZONE MAP: M-1872  
DRB#: 13DRB-70430 EPC#: 12EPC-40060 WORK ORDER#:  
LEGAL DESCRIPTION: WESTERLY PORTION TRACT A, LANDS OF NEW DAY INC ON PLAT  
ENTITLED "PLAT OF TRACTS A AND B LANDS OF NEW DAY INC.  
AUB. BERNALILLO COUNTY NM  
CITY ADDRESS: 2820-A RIVIERA SE

ENGINEERING FIRM: ISAACSON & ARFMAN CONTACT: FRED ARFMAN  
ADDRESS: 128 MONROE ST NE PHONE: 505-268-828  
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87108

OWNER: NEW DAY YOUTH & FAMILY SERVICES CONTACT: STEVE JOHNSON  
ADDRESS: 1300 SAN PEDRO DR NE PHONE: 505-260-9912  
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87110

ARCHITECT: DEKKER PERICH SARATINI CONTACT: DAN MONK  
ADDRESS: 7001 JEFFERSON NE SUITE 1000 PHONE: 505-761-9700  
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

SURVEYOR: WAY JOHN SURVEYING INC CONTACT: \_\_\_\_\_  
ADDRESS: 300 LOUISIANA NE PHONE: 505-255-2052  
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

CONTRACTOR: HB CONSTRUCTION CONTACT: HENRY ESCALANTE  
ADDRESS: 6301 BEVERLY HILLS NE PHONE: 804-0404  
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87113

**TYPE OF SUBMITTAL:**

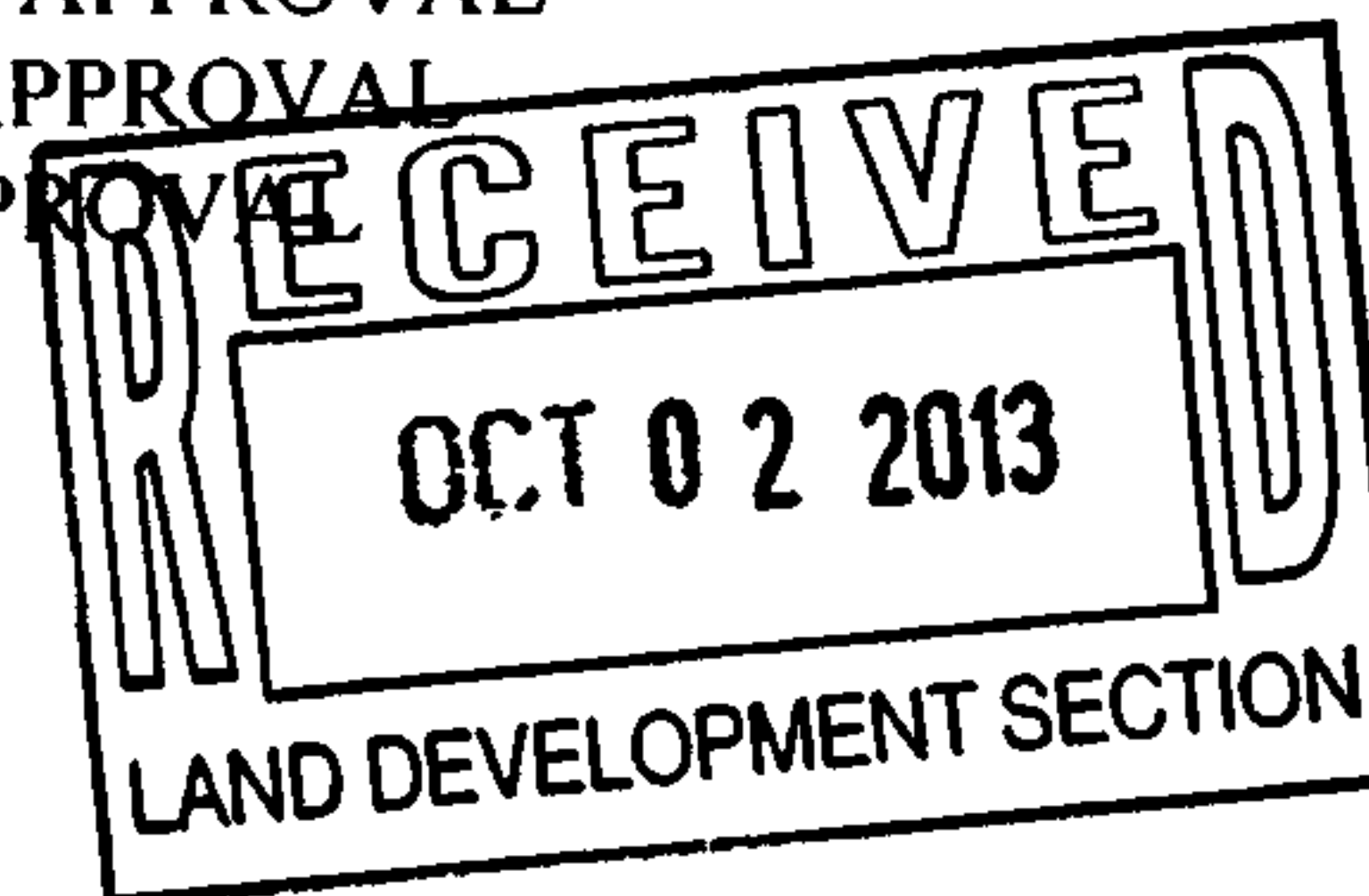
☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
☐ DRAINAGE PLAN RESUBMITTAL  
☐ CONCEPTUAL G & D PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERT (HYDROLOGY)  
☐ CLOMR/LOMR  
☒ TRAFFIC CIRCULATION LAYOUT  
☒ ENGINEER'S CERT (TCL)  
☐ ENGINEER'S CERT (DRB SITE PLAN)  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

**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  
☐ 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: \_\_\_\_\_ BY: \_\_\_\_\_

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

October 18, 2013

Traffic Engineer  
 City of Albuquerque  
 Transportation Development Coordination  
 600 2<sup>nd</sup> Street NW  
 Albuquerque, New Mexico 87102

**RE: New Day Expansion**  
**2820 Ridgecrest SE**  
**Zone: SU-1**  
**Submittal: TCL for Final C.O.**

To Whom It May Concern:

I, Ron Witherspoon, NMRA no.2502 of the firm Dekker/Perich/Sabatini, hereby certify that the referenced portion of this project is in substantial compliance and in accordance with the design intent of the approved Site Development Plan for Building Permit dated October 19, 2012.

Dekker/Perich/Sabatini visited the project site on September 30, 2013 to verify construction was in accordance with the attached Site Development plan. The following items differ from the original plan. However, the design intent is the same as what was approved on the Site Development Plan:

1. The 6 ft wide sidewalk connecting new parking spaces to the transit stop along Ridgecrest was installed without the offset indicated on the approved site plan. The sidewalk path to the transit stop is straighter and more direct as a result of this change.

This certification is submitted in support of a request for Final Certificate of Occupancy for the new Life Skills and Residential building.

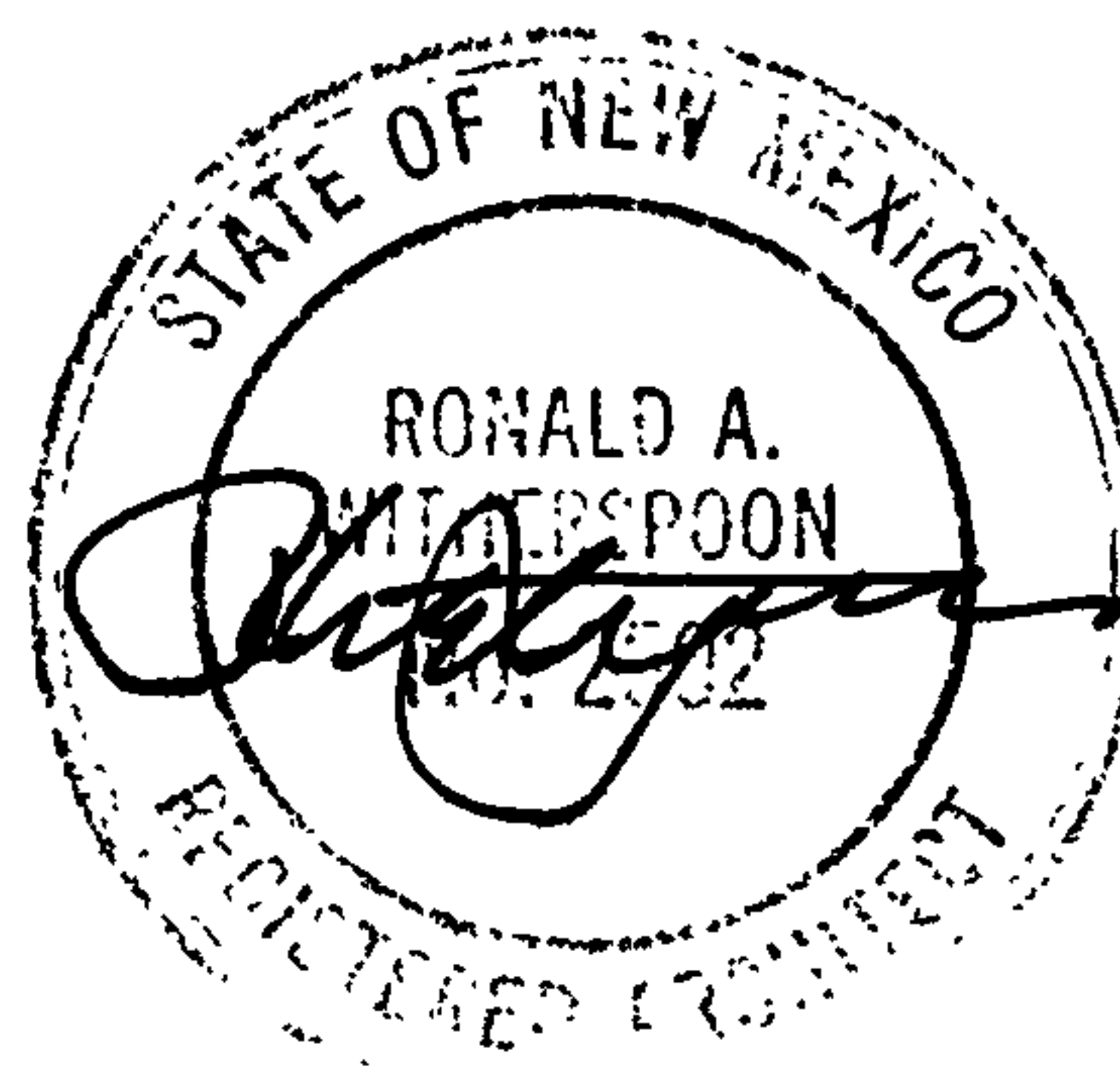
The record information presented herein is not complete and intended only to verify substantial compliance of the traffic aspects of this project as they relate to the above mentioned building. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

If you have any questions, please feel free to contact myself or Dan Monk at 761-9700.

Very truly yours,

**Dekker/Perich/Sabatini Ltd.**

Ron Witherspoon AIA  
 Principal



# CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



October 1, 2013

Richard J. Berry, Mayor

Fred C. Arfman, P.E.  
Isaacson & Arfman, P.A.  
128 Monroe Street N.E.  
Albuquerque, New Mexico 87108

Re: New Day Expansion – 2820 Ridgcrest S.E.  
Request for **Temporary** C.O. – **Accepted = 30-Days**  
Engineer's Stamp dated: 02-07-2013  
Certification dated: 10-1-13

**M18/D014**

Dear Mr. Arfman,

Based upon the information provided in your Certification received 10-01-2013, the above referenced Certification is NOT acceptable for a release of a Permanent Certificate of Occupancy by Hydrology. The information provided suggests deficiencies in the main, detention pond, and fails to document the required vs. As-Built detention pond volumes.

PO Box 1293

**The above referenced Certification is acceptable for a release of a 30 day Temporary Certificate of Occupancy by Hydrology.**

Albuquerque

If you have questions, please email me at [grobson@cabq.gov](mailto:grobson@cabq.gov) or phone 505-924-3994.

New Mexico 87103 Sincerely,

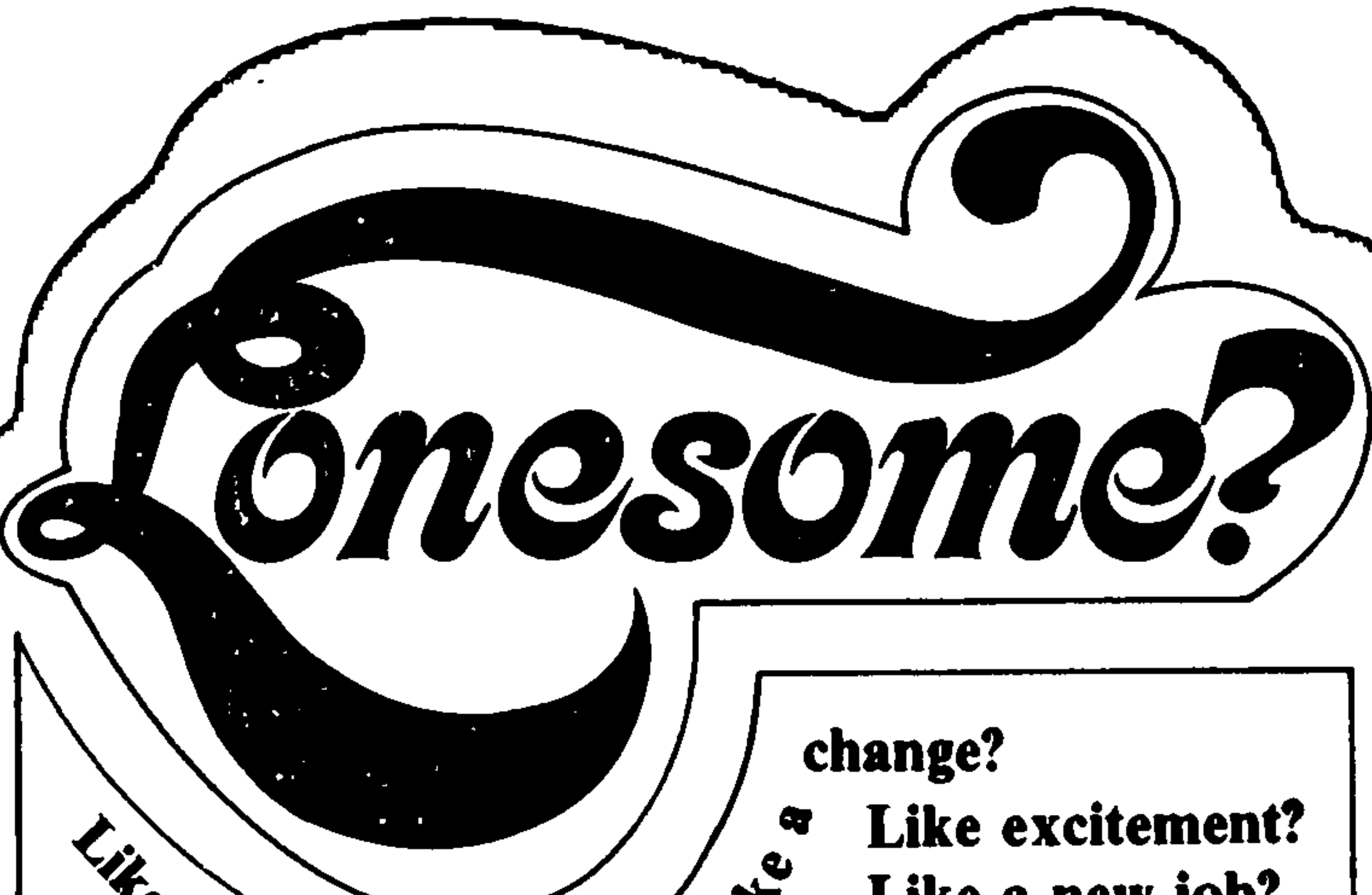
[www.cabq.gov](http://www.cabq.gov)

Gregory R. Olson, P.E.  
Senior Engineer  
Development and Building Services

Orig: Drainage file **M18 / D014**  
c.pdf Addressee via Email [FredA@iacivil.com](mailto:FredA@iacivil.com)  
eC: Katrina Sigala, Planning - CO Clerk  
Francis Connor, Building Services



1  
 1  
 1  
 1



Like to meet new people? Like a

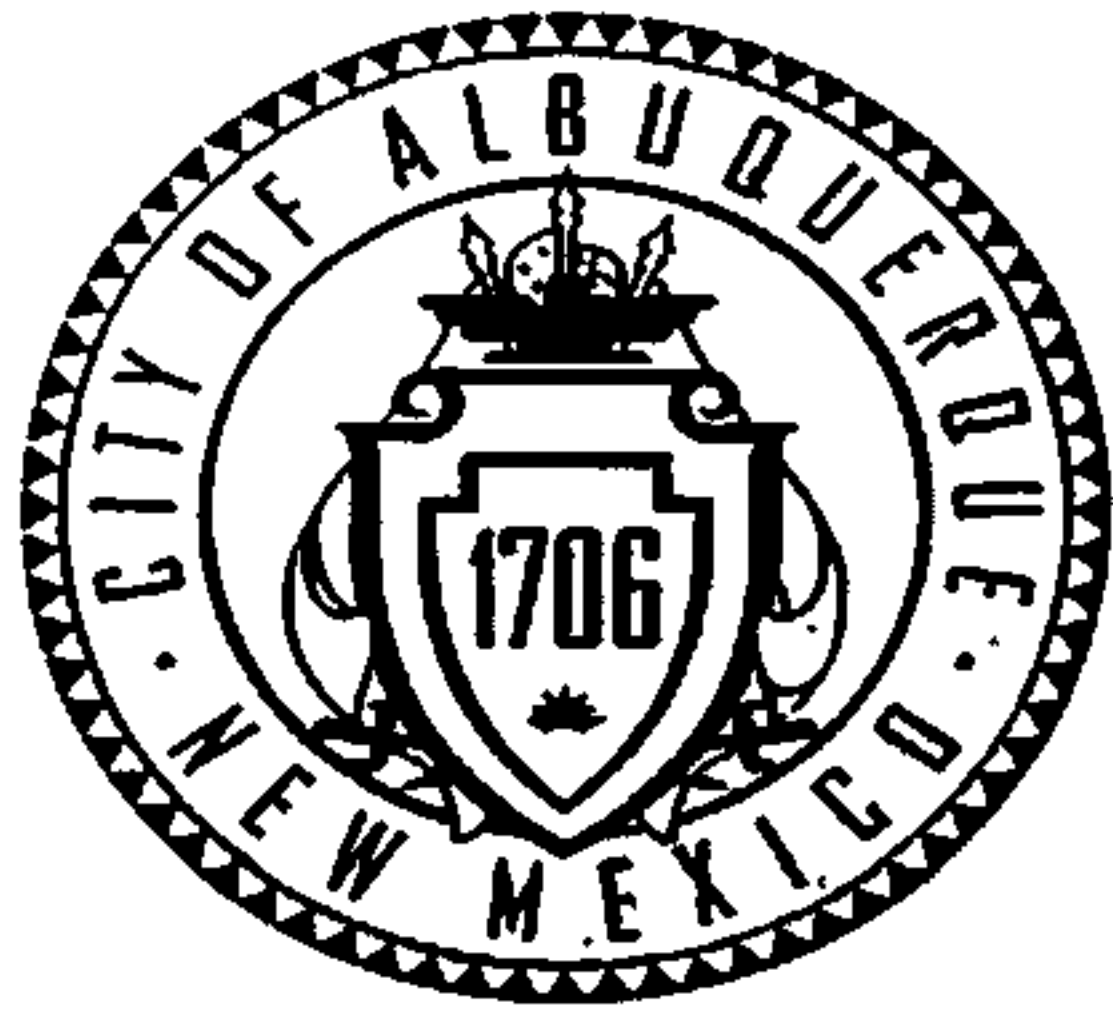
Date \_\_\_\_\_

change?  
 Like excitement?  
 Like a new job?  
 Just "screw up"  
 one more time.

- ① Are FF Rock spillways in place  
 S. Pond: 12' x 6"  
 W. Pond: 12' x 6"  
 N. Pond: 20' x 6"
- ② Main Pond Bottom Too  
 High Ave. of Toe elev.  
 is 59.75 vs. 59.5 design
- ③ Main Pond spillway too LOW  
 60.81 Ave vs. 61.0 Design
- ④ Top of Pond N. of Spillway  
 is Lower than Spillway.

★ Est. 6600± As. Built

53 Sheets Aprx ©1980 H & L Inc (M17) P.O. Box 20667, San Diego, CA 92120



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: New Day Expansion Building Permit #: \_\_\_\_\_ City Drainage #: M-18 / D014

DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ Work Order#: \_\_\_\_\_

Legal Description: Westerly Portion of Tract A, Lands of New Day, Inc.

City Address: 2820 Ridgecrest Drive SE - Albuquerque, NM

Engineering Firm: Isaacson & Arfman, P.A.

Contact: Fred C. Arfman

Address: 128 Monroe Street, NE - Albuquerque, NM 87108

Phone#: (505) 268-8828 Fax#: N/A E-mail: freda@iacivil.com

Owner: New Day Youth & Family Services

Contact: \_\_\_\_\_

Address: 1330 San Pedro Drive NE, Suite 201-B - Albuquerque, NM 87110

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

Architect: Dekker Perich Sabatini

Contact: Dan Monk, AIA

Address: 7601 Jefferson Street NE - Albuquerque, NM 87109

Phone#: 761-4222 Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

Surveyor: Surv-Tek, Inc.

Contact: Russ P. Hugg

Address: 9384 Valley View Drive NW - Albuquerque, NM 87114

Phone#: 897-3366 Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

Contractor: HB Construction

Contact: \_\_\_\_\_

Address: 5301 Beverly Hills Ave. NE - Albuquerque, NM 87113

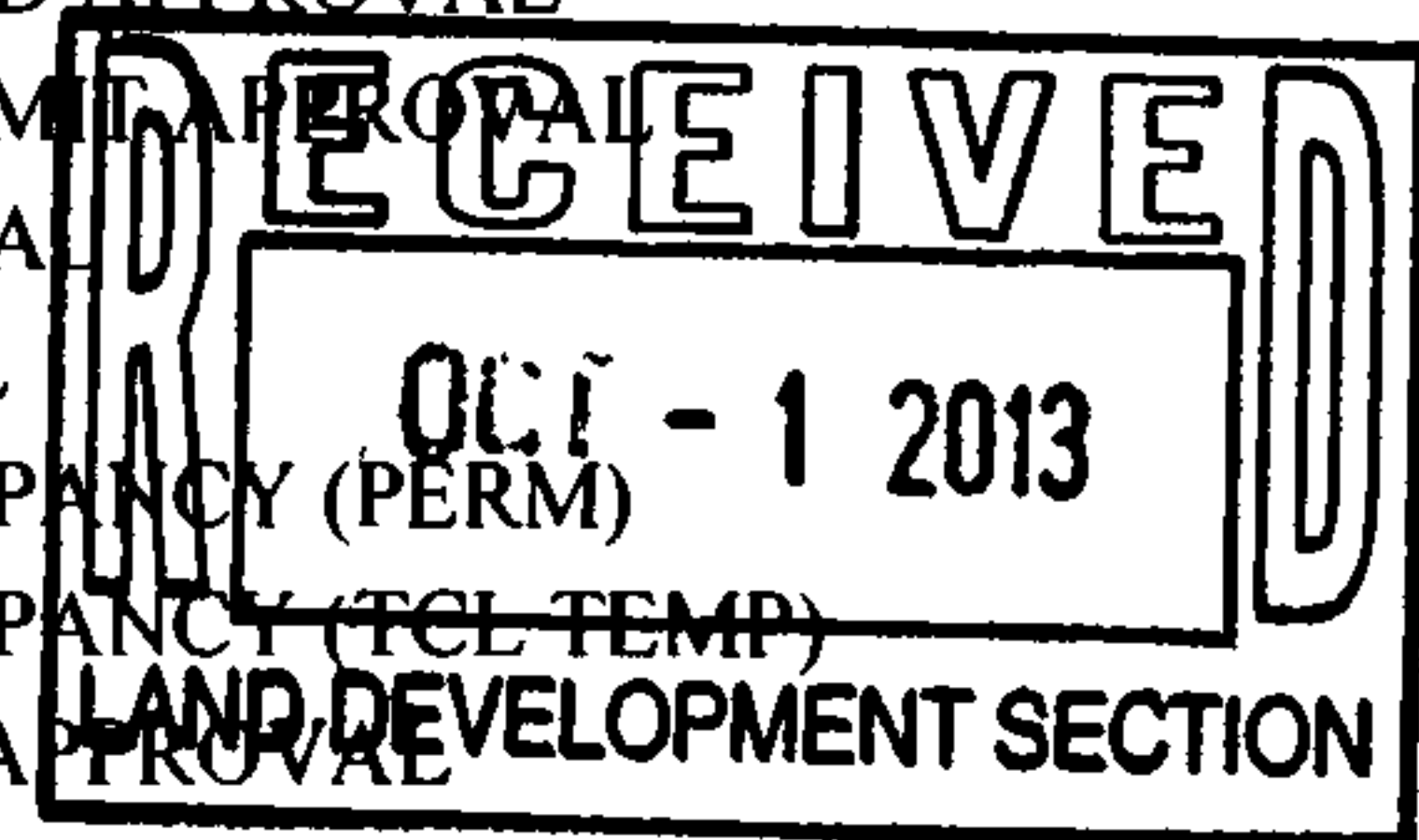
Phone#: 856-0404 Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

### TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☒ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERT (TCL)
- ☐ ENGINEER'S CERT (DRB SITE PLAN)
- ☐ ENGINEER'S CERT (ESC)
- ☐ SO-19
- ☐ OTHER (SPECIFY) \_\_\_\_\_

### CHECK TYPE OF APPROVAL/ACCEPTANCE 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
- ☒ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ GRADING CERTIFICATION
- ☐ SO-19 APPROVAL
- ☐ ESC PERMIT APPROVAL
- ☐ ESC CERT. ACCEPTANCE
- ☐ OTHER (SPECIFY) \_\_\_\_\_



WAS A PRE-DESIGN CONFERENCE ATTENDED: \_\_\_\_\_

Yes \_\_\_\_\_ No \_\_\_\_\_ Copy Provided \_\_\_\_\_

DATE SUBMITTED: September 30, 2013

By: Fred C. Arfman

for Isaacson & Arfman, P.A.

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
- 2 **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- 3 **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4 **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



# CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development & Building Services



February 28, 2013

Fred Arfman, P.E.  
Isaacson & Arfman, P.A.  
128 Monroe St. NE  
Albuquerque, New Mexico 87108

Richard J. Berry, Mayor

RE: New Day Expansion –Grading & Drainage Plan for Grading and Building Permit  
2820 Ridgcrest S.E. PE Stamp (2/7/13) ~ File: **M18-D014**

Dear Mr. Arfman,

Based upon the information provided in your submittal received February 7, 2013, the subject Grading and Drainage Plan is approved for Grading Permit and Building Permit.

Please include a copy of this plan in the Building Permit plan set, prior to seeking Hydrology signoff.

PO Box 1293

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

Albuquerque

This project will require a National Pollutant Discharge Elimination System (NPDES) permit and Storm Water Pollution Prevention Plan (SWPPP) for construction.

NM 87103

If you have any questions, you may contact me by email at [groison@cabq.gov](mailto:groison@cabq.gov), or telephone 505-924-3695.

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Gregory R. Olson, P.E.  
Senior Engineer

Orig: Drainage file M18/D014  
c.pdf Addressee via Email [FredA@iacivil.com](mailto:FredA@iacivil.com)

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(Rev. 12/05)

PROJECT TITLE: New Day Expansion ZONE MAP/DRG. FILE # M-18 / D014  
RB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: Westerly Portion of Tract A, Lands of New Day, Inc., City of Albuquerque, NM  
CITY ADDRESS: \_\_\_\_\_

ENGINEERING FIRM: ISAACSON & ARFMAN, PA CONTACT: Fred C. Arfman  
ADDRESS: 128 MONROE NE PHONE: 268-8828  
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87108

OWNER: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

ARCHITECT: Dekker Perich Sabatini CONTACT: Dan Monk, AIA  
ADDRESS: 7601 Jefferson NE PHONE: 761-4222  
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

SURVEYOR: Surv-Tek, Inc. CONTACT: Russ P. Hugs  
ADDRESS: 9384 Valley View Dr. NW PHONE: 897-3366  
CITY, STATE: Albuquerque, NM ZIP CODE: 87114

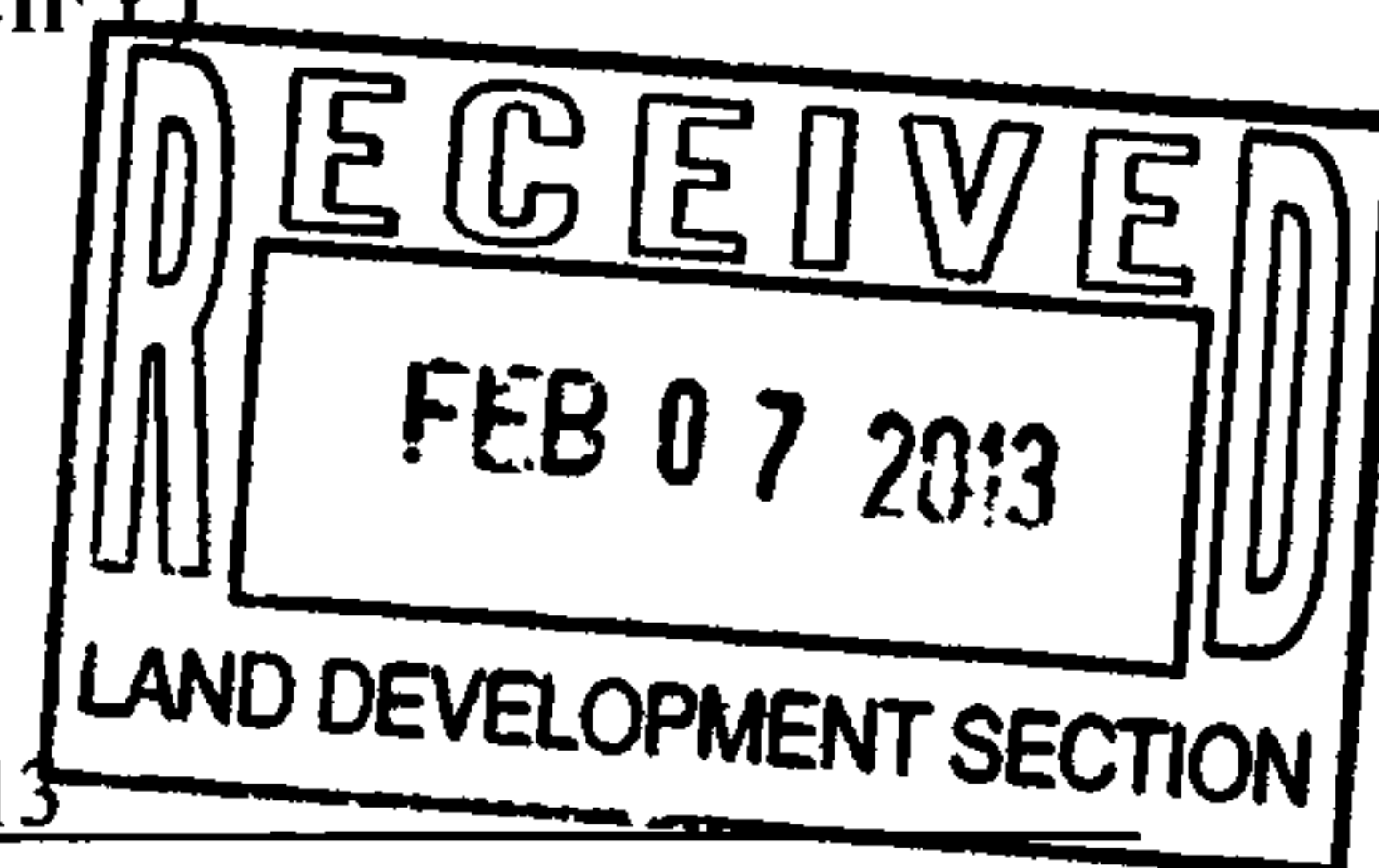
CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

**TYPE OF SUBMITTAL:**  
\_\_\_\_ DRAINAGE REPORT  
\_\_\_\_ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
☒ DRAINAGE PLAN RESUBMITTAL  
\_\_\_\_ CONCEPTUAL G & D PLAN  
☒ GRADING PLAN  
\_\_\_\_ EROSION CONTROL PLAN  
\_\_\_\_ ENGINEER'S CERT (HYDROLOGY)  
\_\_\_\_ CLOMR/LOMR  
\_\_\_\_ TRAFFIC CIRCULATION LAYOUT  
\_\_\_\_ ENGINEER/ARCHITECT CERT (TCL)  
\_\_\_\_ ENGINEER/ARCHITECT CERT (DRB S.P.)  
\_\_\_\_ ENGINEER/ARCHITECT CERT (AA)  
\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

**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  
☒ 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

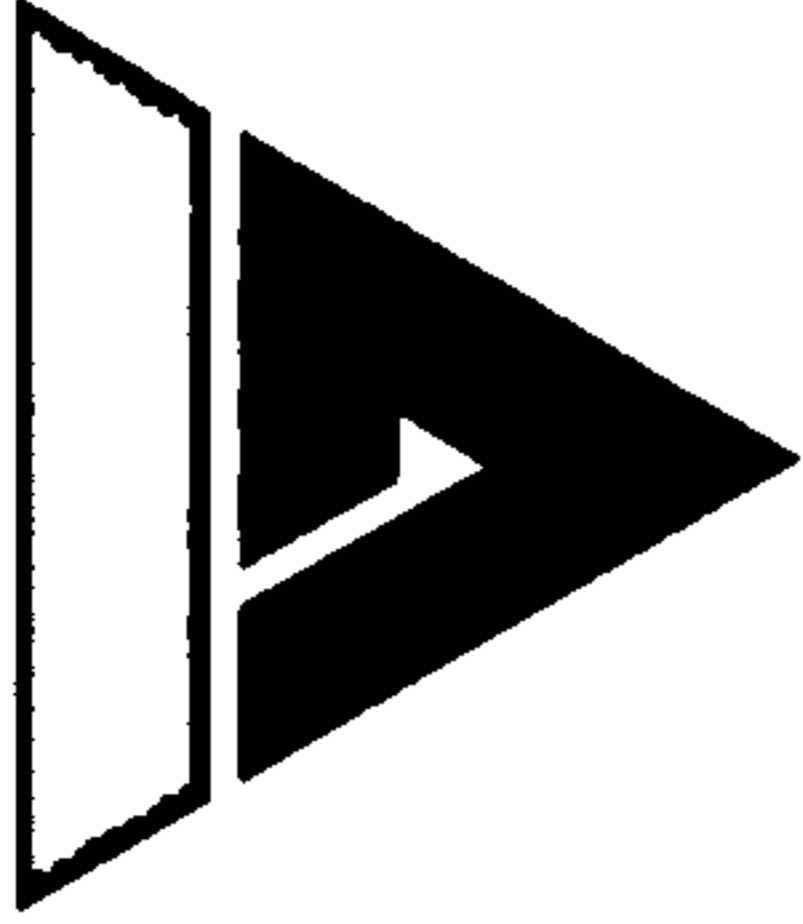
SUBMITTED BY: Fred Arfman DATE: 2/7/2013  
Isaacson & Arfman, P.A.



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 define 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more.





# Isaacson & Arfman, P.A.

Consulting Engineering Associates

*Thomas O. Isaacson, PE (Ret.) & LS (Ret.) \* Fred C. Arfman, PE \* Åsa Nilsson-Weber, PE*

City of Albuquerque  
Development and Building Services  
Attn: Gregory Olson, Senior Engineer, Planning Dept.

## RE: NEW DAY EXPANSION (M18/D014)

Dear Mr. Olson,

Attached is a revised copy of the Drainage and Grading Plan for the referenced project. Revisions were made based on architectural site plan changes and in response to your review comments dated October 12, 2012 as follows:

In response to your numbered comments:

1. No offsite flow will enter the property from the east. Current construction of a curbed road diverts previously accepted off-site flow around the property.
2. Project scope and calculations have been revised / updated.
3. Flow in excess of the undeveloped discharge rate will be detained within the proposed pond.
4. Obtaining an SWPPP will be the responsibility of the contractor.

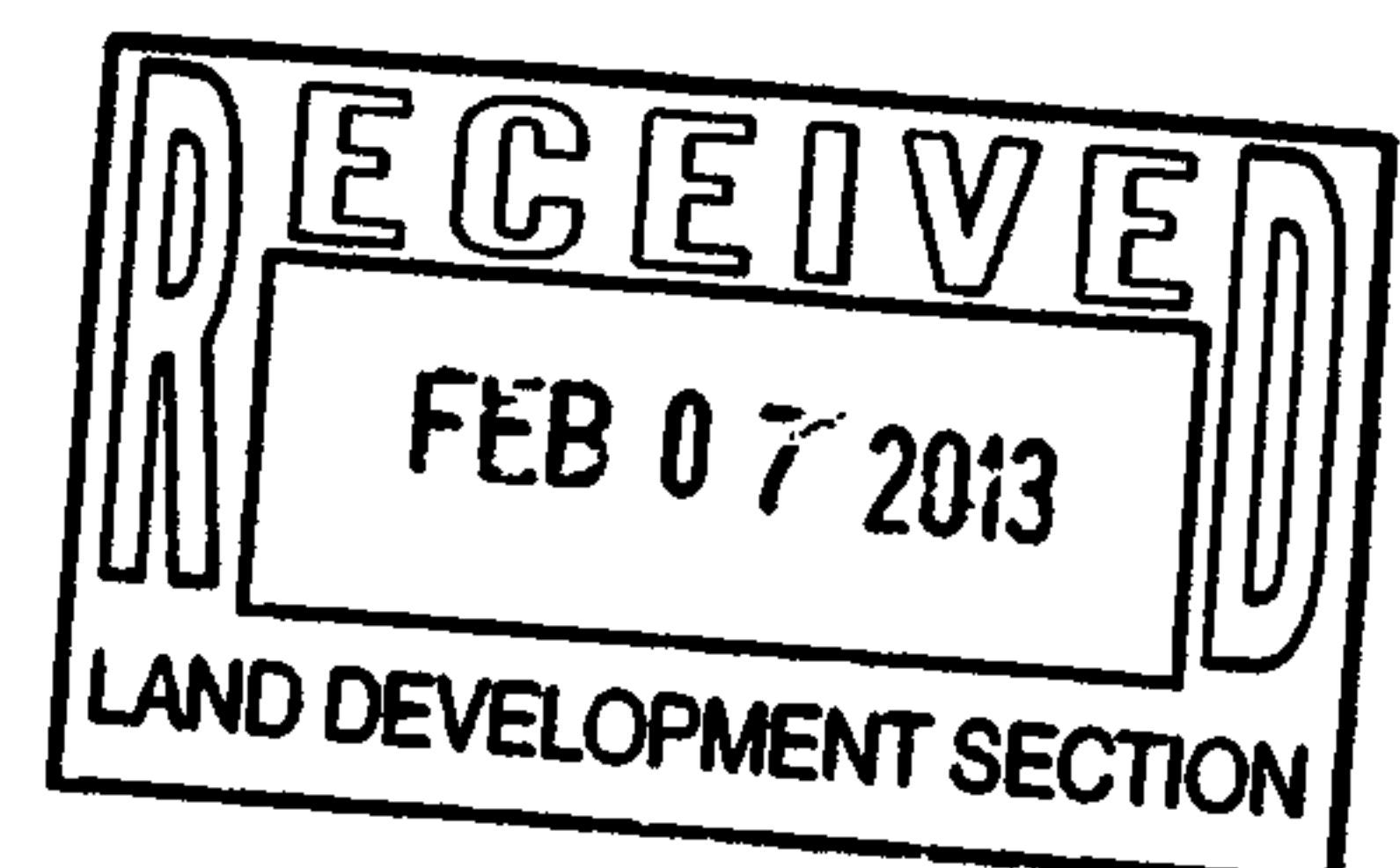
Further revisions were made as follows:

- Stormflow discharge to the west required grade coordination with Bohannon Huston Engr. (engineers for Bullhead Park – currently under construction). We have coordinated with BHI regarding the discharge of historic rates along the west property line (this discharge will be accepted and routed through the landscaping to curb opening(s) to accept the flow.
- The site was recalculated with three drainage basins.
- A 6" bleeder drain will be installed in the main detention pond as shown.
- Flow in excess of ponding capacity will overflow and pass to the adjacent property as sheetflow.

Please contact me if you have any questions or concerns.

Sincerely,  
ISAACSON & ARFMAN P.A.

  
Frederick C. Arfman, PE  
President



**CITY OF ALBUQUERQUE  
PLANNING DEPARTMENT**

**HYDROLOGY DEVELOPMENT SECTION  
DEVELOPMENT REVIEW BOARD MEMO**

**DRB PROJECT NO: 1002624**

**AGENDA ITEM NO: 7**

**SUBJECT:**

Site Plan for Building Permit

**ENGINEERING COMMENTS:**

The conceptual grading and drainage plan in the DRB package is different than previously approved. It is still acceptable for site plan approval.

**RESOLUTION/COMMENTS:**

**SIGNED:**

Curtis Cherne  
Hydrology Section  
City Engineer Designee  
AMAFCA Designee  
924-3986

**DATE: 2-13-13**



# CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development & Building Services



October 12, 2012

Fred Arfman, P.E.  
Isaacson & Arfman, P.A.  
128 Monroe St. NE  
Albuquerque, New Mexico 87108

Richard J. Berry, Mayor

RE: New Day Expansion – Conceptual Grading & Drainage Plan  
2820 Ridgecrest S.E. No PE Stamp (Imprinted 9/24/12) ~ File: **M18-D014**

Dear Mr. Arfman,

Based upon the information provided in your submittal received September 27, 2012, your Conceptual Grading and Drainage Plan is acceptable, conditioned upon the following:

1. Offsite flows appear to enter the site from the east of the existing building, based upon topographic maps and drainage calculations for the original building. This area and flow must be included in the basin map and drainage calculations.
2. The verbiage in the "PROJECT SCOPE" section which refers to a maximum 3.0 cfs runoff is confusing. This appears to be the undeveloped runoff from the original building site only. This plan needs to include the offsite basin area, and compute the allowable maximum as the "undeveloped discharge rate" for this site.
3. Calculations on this plan show undeveloped runoff of 4.7 cfs and 9.2 cfs developed. Final design for Building Permit will need to adequately detain the developed flow at or below the computed historic runoff rate.
4. This project will require a National Pollutant Discharge Elimination System (NPDES) permit and Storm Water Pollution Prevention Plan (SWPPP) for construction.

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)

Albuquerque's MS4 Permit became effective March 1<sup>st</sup>, 2012. Grading and Drainage Plans and Drainage Reports will have to comply with the requirements of the new permit ([ftp://ftp.nmenv.state.nm.us/www/swqb/NPDES/Permits/NMS000101-AlbuquerqueMS4.pdf](http://ftp.nmenv.state.nm.us/www/swqb/NPDES/Permits/NMS000101-AlbuquerqueMS4.pdf)).

If you have any questions, you may contact me by email at [rolson@cabq.gov](mailto:rolson@cabq.gov), or telephone 505-924-3695.

Sincerely,

Gregory R. Olson, P.E.  
Senior Engineer

Orig: Drainage file M18/D014  
c.pdf Addressee via Email [FredA@iacivil.com](mailto:FredA@iacivil.com)

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(Rev. 12/05)

PROJECT TITLE: New Day Expansion ZONE MAP/DRG. FILE # M-18 / DD14.  
RB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: Westerly Portion of Tract A, Lands of New Day, Inc., City of Albuquerque, NM  
CITY ADDRESS: \_\_\_\_\_

ENGINEERING FIRM: ISAACSON & ARFMAN, PA CONTACT: Fred C. Arfman  
ADDRESS: 128 MONROE NE PHONE: 268-8828  
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87108

OWNER: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

ARCHITECT: Dekker Perich Sabatini CONTACT: \_\_\_\_\_  
ADDRESS: 7601 Jefferson NE PHONE: 761-4222  
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

SURVEYOR: Surv-Tek, Inc. CONTACT: Russ P. Hugs  
ADDRESS: 9384 Valley View Dr. NW PHONE: 897-3366  
CITY, STATE: Albuquerque, NM ZIP CODE: 87114

CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

TYPE OF SUBMITTAL:  
☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
☐ DRAINAGE PLAN RESUBMITTAL  
☒ CONCEPTUAL G & D PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERT (HYDROLOGY)  
☐ CLOMR/LOMR  
☐ TRAFFIC CIRCULATION LAYOUT  
☐ ENGINEER/ARCHITECT CERT (TCL)  
☐ ENGINEER/ARCHITECT CERT (DRB S.P.)  
☐ ENGINEER/ARCHITECT CERT (AA)  
☐ OTHER (SPECIFY) \_\_\_\_\_

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  
☐ 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

SUBMITTED BY: Fred Arfman DATE: 9/27/2012  
Isaacson & Arfman, P.A.



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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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3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.





# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 19, 2004

Jeffrey Mortensen, P.E.  
Jeff Mortensen & Associates, Inc.  
6010-B Midway Park Blvd. NE  
Albuquerque, NM 87109

**Re: New Day Youth and Family Services, Ridgecrest Dr SE, Grading and  
Drainage Plan**

**Engineer's Stamp dated 3-08-04 (M18/D14)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 3-08-04, 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.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso) or 768-3645 (Bryan Wolfe).

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro  
Engineering Associate, Planning Dept.  
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design  
File

*Note  
This site was replatted  
as Western Port, is now  
planned herein is now  
owned by City.  
of Alb. 4/10/04*

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**

(REV. 1/28/2003rd)

**M-18/D14**PROJECT TITLE: NEW DAY YOUTH & FAMILY SERVICESZONE ATLAS/DRNG. FILE #: M18 D14DRB #: 1002624 EPC #: \_\_\_\_\_

WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: UNPLATTEDCITY ADDRESS: RIDGECREST DRIVE SEENGINEERING FIRM: JEFF MORTENSEN & ASSOC., INC.ADDRESS: 6010-B MIDWAY PARK BLVD. NECITY, STATE: ALBUQUERQUE, NMCONTACT: JEFF MORTENSENPHONE: (505) 345-4250ZIP CODE: 87109OWNER: NEW DAY YOUTH & FAMILY SERVICESADDRESS: 1330 SAN PEDRO NE, SUITE 201-BCITY, STATE: ALBUQUERQUE, NM 87110CONTACT: JERRY OTEROPHONE: 260-9912ZIP CODE: 87110ARCHITECT: DEKKER PERICH SABATINIADDRESS: 6801 JEFFERSON NE SUITE 100CITY, STATE: ALBUQ., NMCONTACT: SALLY SACCOPHONE: 761-9700ZIP CODE: 87109SURVEYOR: JEFF MORTENSEN & ASSOCIATES, INC.ADDRESS: 6010-B MIDWAY PARK BLVD NECITY, STATE: ALBUQUERQUE, NMCONTACT: JEFF MORTENSENPHONE: (505) 345-4250ZIP CODE: 87109CONTRACTOR: GERALD MARTIN CONSTRUCTIONADDRESS: 8501 JEFFERSON NECITY, STATE: ALBUQUERQUE NMCONTACT: FRED GORENZPHONE: 823-6850ZIP CODE: 87113**TYPE OF SUBMITTAL:**

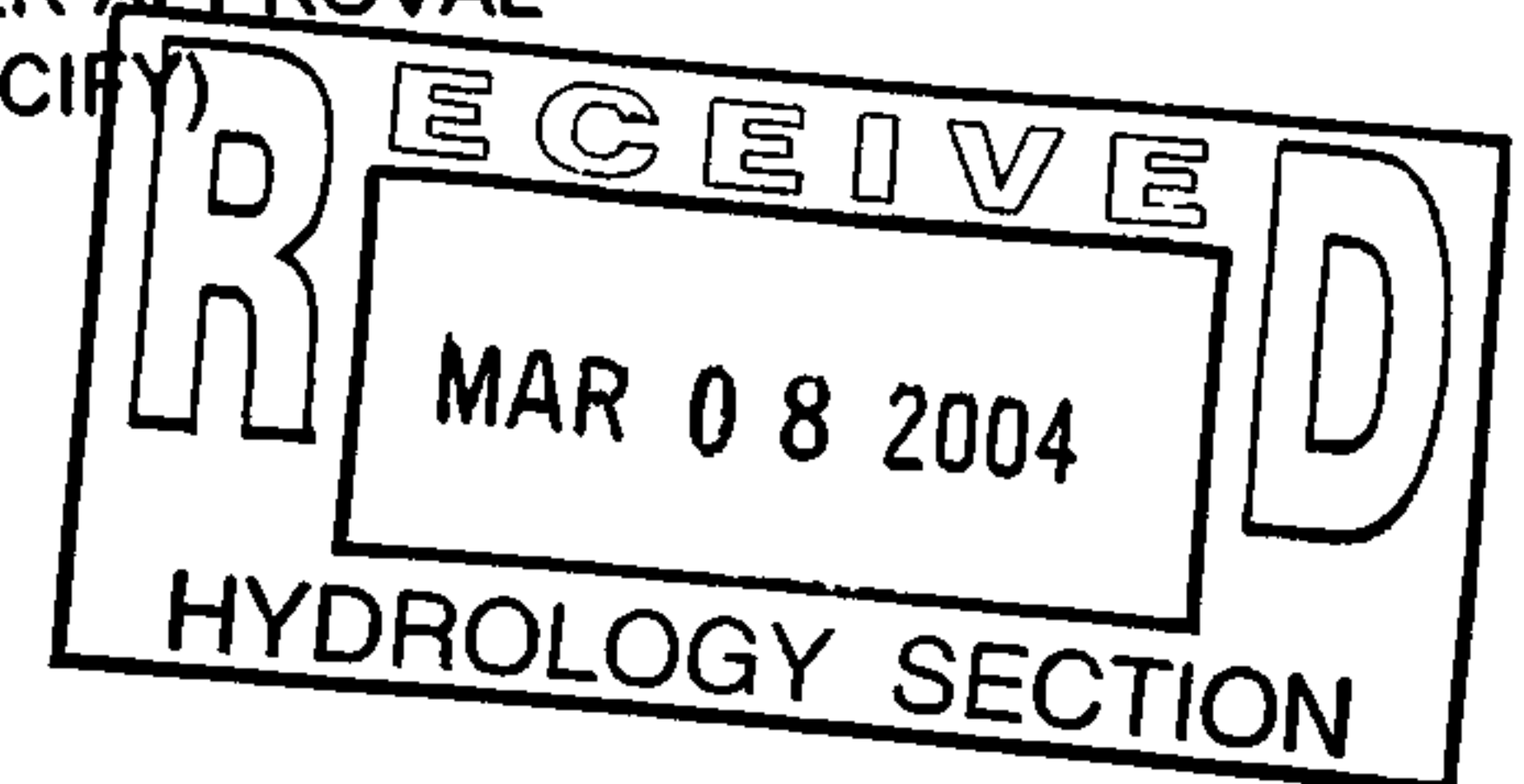
- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL, **REQUIRES TCL or equal**
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERTIFICATION (TCL)
- ☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ☒ OTHER TCL IS DRB APPROVED SITE PLAN

**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 (PREVIOUS APPROVAL)

DATE SUBMITTED: 03/09/2004 BY: JEFFREY G. MORTENSEN

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3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 13, 2004

Jeffrey Mortensen, P.E.  
Jeff Mortensen & Associates, Inc.  
6010-B Midway Park Blvd. NE  
Albuquerque, NM 87109

**Re: New Day Youth and Family Services, Ridgecrest Dr. SE, Site Development Plan**

**Engineer's Stamp dated 12-03-03 (M18/D14)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 12-29-03, the above referenced plan is approved for Site Development Plan for Building Permit action by the DRB.

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro

Engineering Associate, Planning Dept.  
Development and Building Services

*MD*

C: file

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**

(REV. 1/28/2003rd)

M-18/D014

PROJECT TITLE: NEW DAY YOUTH & FAMILY SERVICES ZONE ATLAS/DRNG. FILE #: M18 D14  
 DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: UNPLATTED  
 CITY ADDRESS: RIDGECREST DRIVE SE

ENGINEERING FIRM: JEFF MORTENSEN & ASSOC., INC. CONTACT: JEFF MORTENSEN  
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

OWNER: NEW DAY YOUTH & FAMILY SERVICES CONTACT: JERRY OTERO  
 ADDRESS: 1330 SAN PEDRO NE, SUITE 201-B PHONE: 260-9912  
 CITY, STATE: ALBUQUERQUE, NM 87110 ZIP CODE: 87110

ARCHITECT: DEKKER PERICH SABATINI CONTACT: SALLY SACCO  
 ADDRESS: 6801 JEFFERSON NE SUITE 100 PHONE: 761-9700  
 CITY, STATE: ALBUQ., NM ZIP CODE: 87109

SURVEYOR: SOUTHWEST SURVEYING C/O SURVEYS SOUTHWEST CONTACT: \_\_\_\_\_  
 ADDRESS: 333 LOMAS NW PHONE: (505) 998-0303  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

CONTRACTOR: GERALD MARTIN CONSTRUCTION CONTACT: FRED GORENZ  
 ADDRESS: 8501 JEFFERSON NE PHONE: 823-6850  
 CITY, STATE: ALBUQUERQUE NM ZIP CODE: 87113

TYPE OF SUBMITTAL:

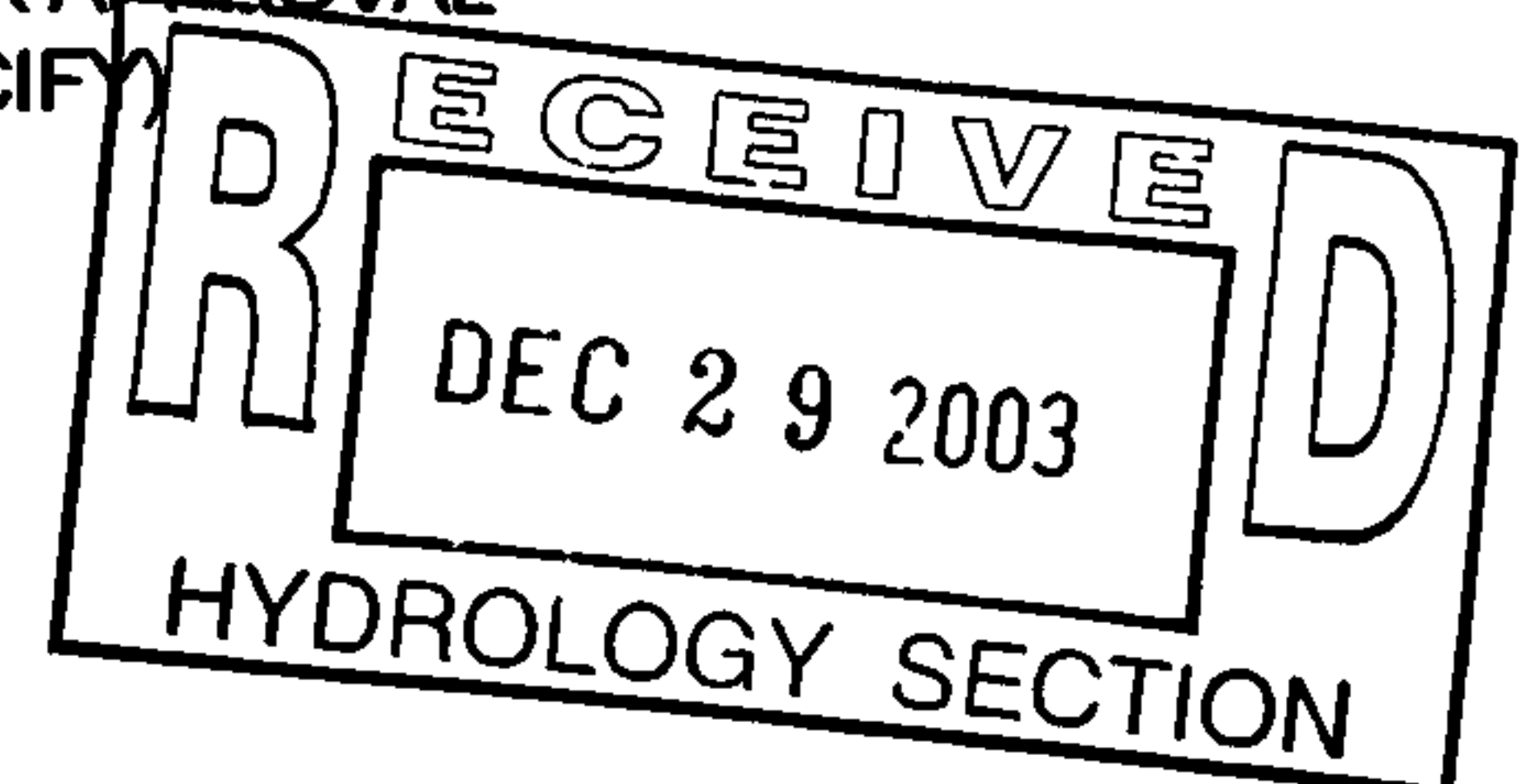
- ☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL, *REQUIRES TCL or equal*  
☐ DRAINAGE PLAN RESUBMITTAL  
☒ CONCEPTUAL GRADING & DRAINAGE PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERTIFICATION (HYDROLOGY)  
☐ CLOMR/LOMR  
☐ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ ENGINEER'S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



DATE SUBMITTED: 12/29/2003 BY: JEFFREY G. MORTENSEN

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3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Februaury 8, 1999

Benny E. McMillan, P.E.  
Cavez-Grieves  
5639 Jefferson NE  
Albuquerque, New Mexico 87109

**RE: ENGINEER'S CERTIFICATION FOR NEW DAY SHELTER (M-18/D4)  
ENGINEER'S CERTIFICATION STATEMENT DATED 2/5/99**

Dear Mr. McMillan:

Based on the information provided on your February 5, 1999, submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of any further assistance, please feel free to contact me at 924-3330.

C: file

Sincerely,

Andrew Garcia  
Drainage Inspector

## DRAINAGE INFORMATION

PROJECT TITLE New Day Shelter

ZONE ATLAS/DRNG. FILE #. M. 18/DO14

DRB#                      EPC #                      WORK ORDER #                     

LEGAL DESCRIPTION NE 1/4 Section 36, T. 10 N., R. 3 E., NMPM

CITY ADDRESS: Ridgecrest Dr. SE

ENGINEERING FIRM: Chavez-Grieves

CONTACT: Benny E. McMillan, P.E.

ADDRESS: 5639 Jefferson NE

PHONE: 344-4080

OWNER:                     

CONTACT:                     

ADDRESS                     

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 (INFRASTRUCTURE LIST. LETTER)

### PRE-DESIGN MEETING:

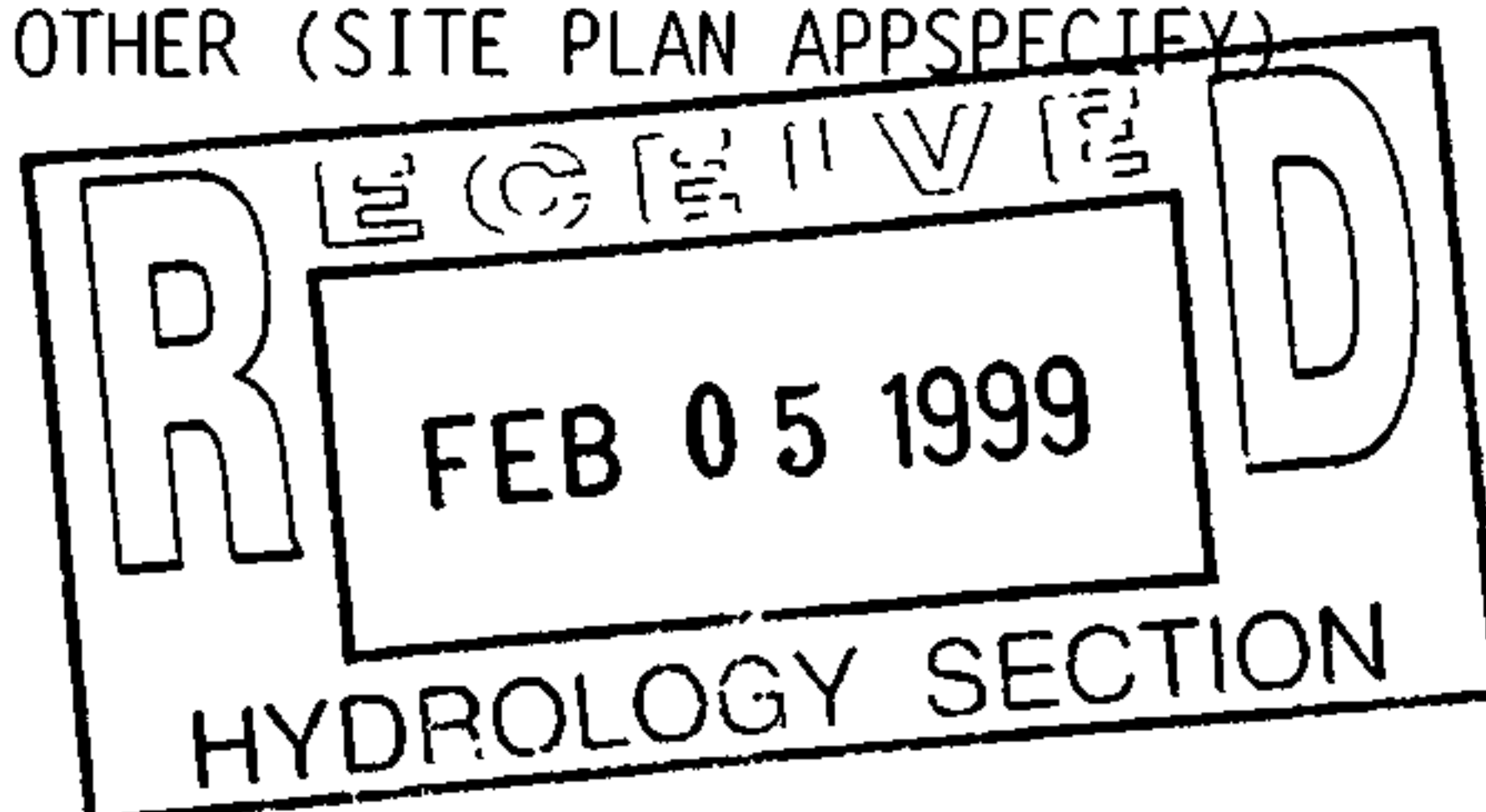
- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

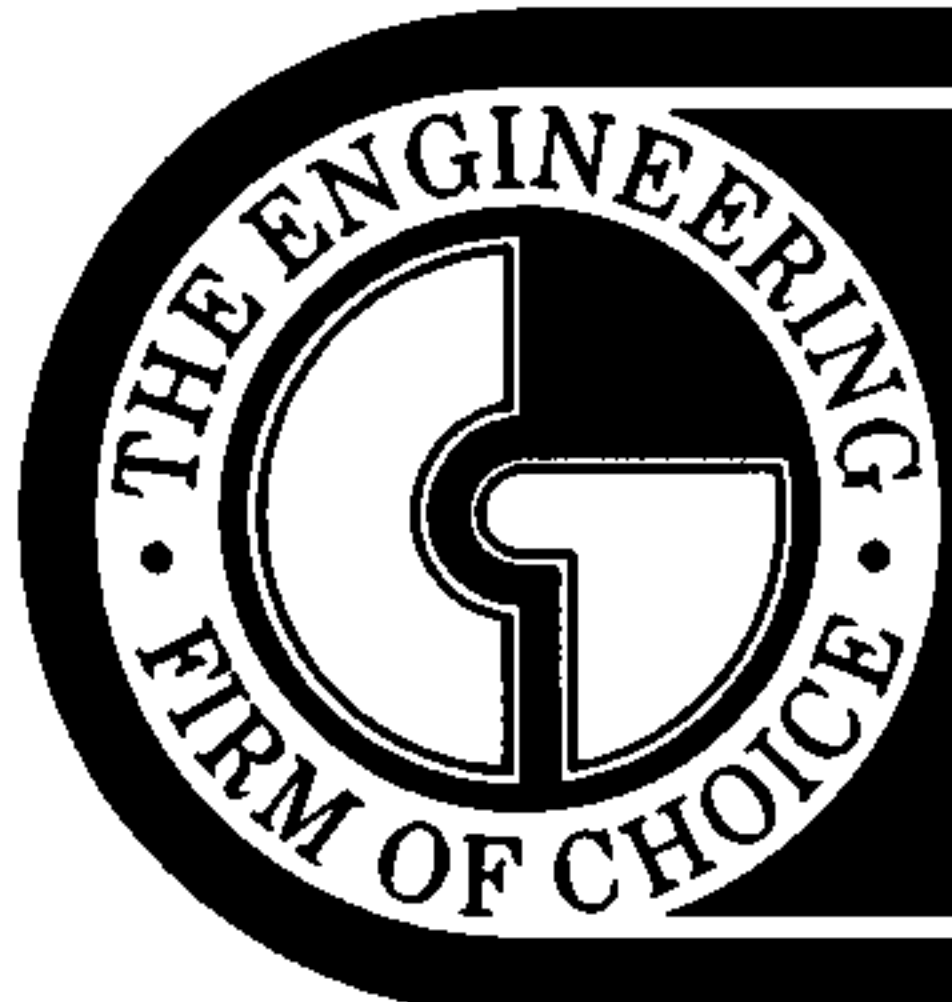
### CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PRMT. 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
- ☐ OTHER (SITE PLAN APPSPECIFY)

DATE SUBMITTED February 5, 1999

BY: Benny E. McMillan, P.E.





# CHAVEZ • GRIEVES

## CONSULTING ENGINEERS, INC.

5639 JEFFERSON STREET NE • ALBUQUERQUE, NEW MEXICO 87109 • PHONE (505) 344-4080 • FAX (505) 343-8759

### LETTER OF TRANSMITTAL

TO: C. A. Public Works Engineering DATE: 2/5/99  
Hydrology JOB # OH-99  
RE: New Day Shelter

ATTN: \_\_\_\_\_

WE ARE SENDING YOU ☒ ATTACHED ☐ UNDER SEPARATE COVER, THE FOLLOWING ITEMS:

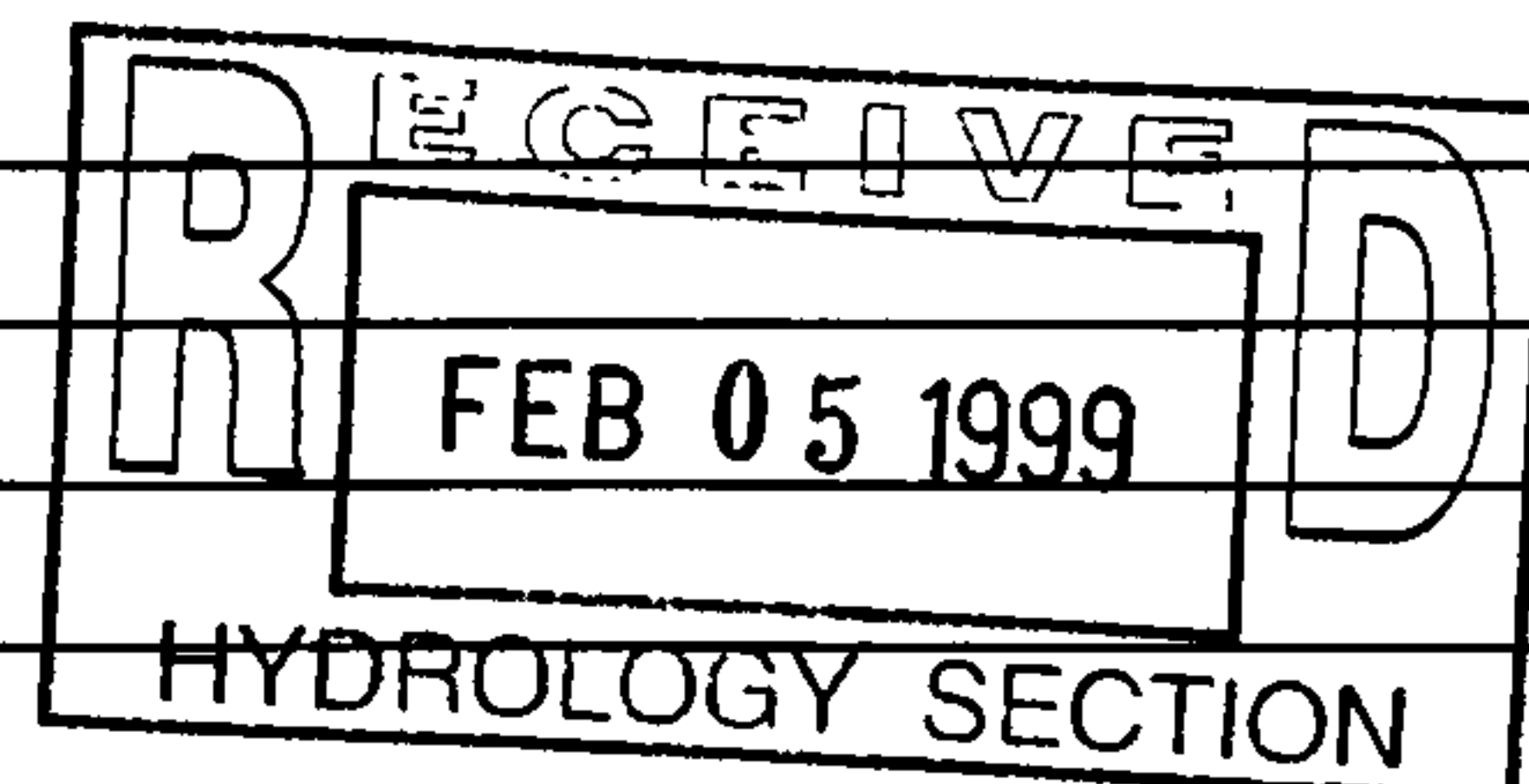
☐ SHOP DRAWINGS ☐ PLANS ☐ SPECIFICATIONS ☐ DISKETTE  
☐ CHANGE ORDER ☒ PRINTS ☐ CALCULATIONS ☐ PROPOSAL INFO  
☐ COPY OF LETTER ☐ SAMPLES ☐ REPORT

COPIES	DATE	NO.	DESCRIPTION
<u>1</u>	<u>2/5/99</u>		<u>As-Built Elevation</u>
<u>1</u>	<u>2/5/99</u>		<u>Drainage Information Sheet</u>
<u>1</u>	<u>2/26/99</u>		<u>Authorization Letter</u>

THESE ARE TRANSMITTED AS CHECKED BELOW:

☒ FOR YOUR USE ☒ FOR REVIEW & COMMENT  
☐ AS REQUESTED ☐ RETURNED AFTER LOAN TO US  
☐ PLEASE CORRECT AND RESUBMIT ☐ SUBMIT \_\_\_\_\_ COPIES FOR DISTRIBUTION  
☐ RESUBMITTAL IS NOT REQUIRED ☐ RETURN \_\_\_\_\_ CORRECTED PRINTS  
CORRECTIONS, IF ANY, ARE NOTED ☐ BIDS/PROPOSALS DUE \_\_\_\_\_ 199\_\_

REMARKS: \_\_\_\_\_



COPIES TO: File SIGNED: [Signature]

IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE.

REV. 9/95



January 26, 1999

Mr. Benny McMillan, P.E.  
Chavez-Grieves Consulting Engineers, Inc.  
5639 Jefferson NE  
Albuquerque, New Mexico 87109

**SUBJECT: New Day Shelter**

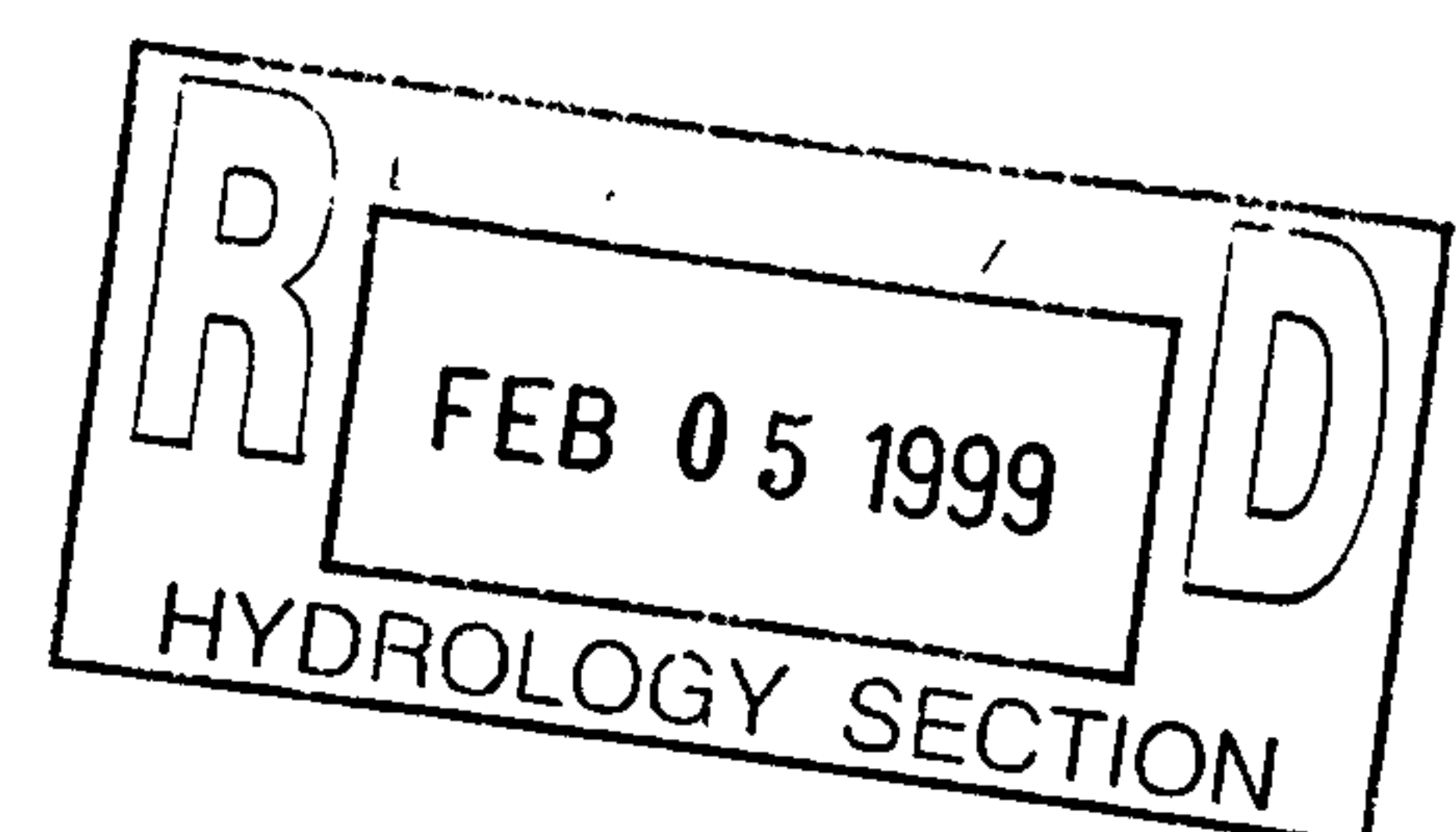
Dear Mr. McMillan:

With this letter, I hereby give you permission to act on my behalf in providing the engineers Certification for this project.

Sincerely,

A handwritten signature in cursive script that reads "Joe Kelley".

Joe P. Kelley, P.E.



12-9-98  
Andrew, OK  
TO RELEASE 30 DAY TEMP  
Released 30 day  
temp CO. on 12/9/98  
AB.

Mr. Fred Aguirre  
City of Albuquerque  
Hydrology

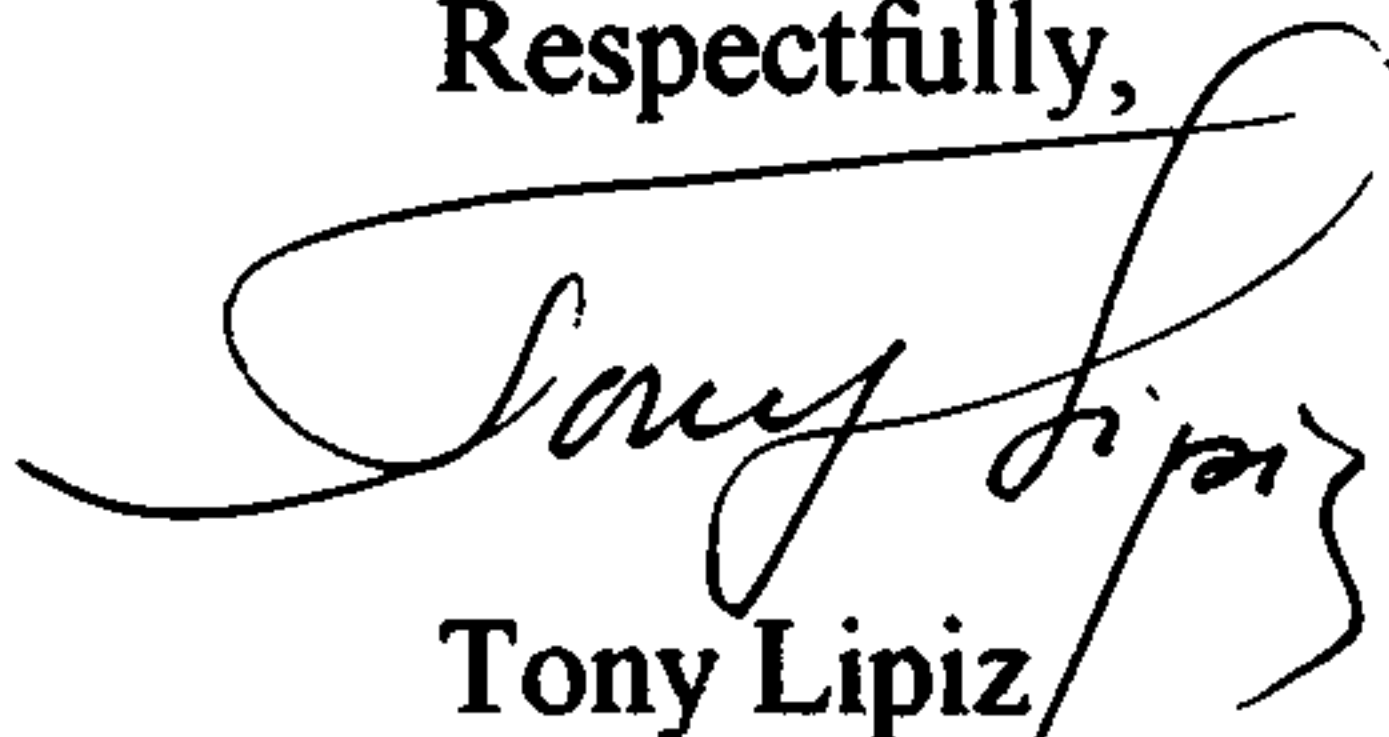
December 8, 1998

Dear Mr. Aguirre

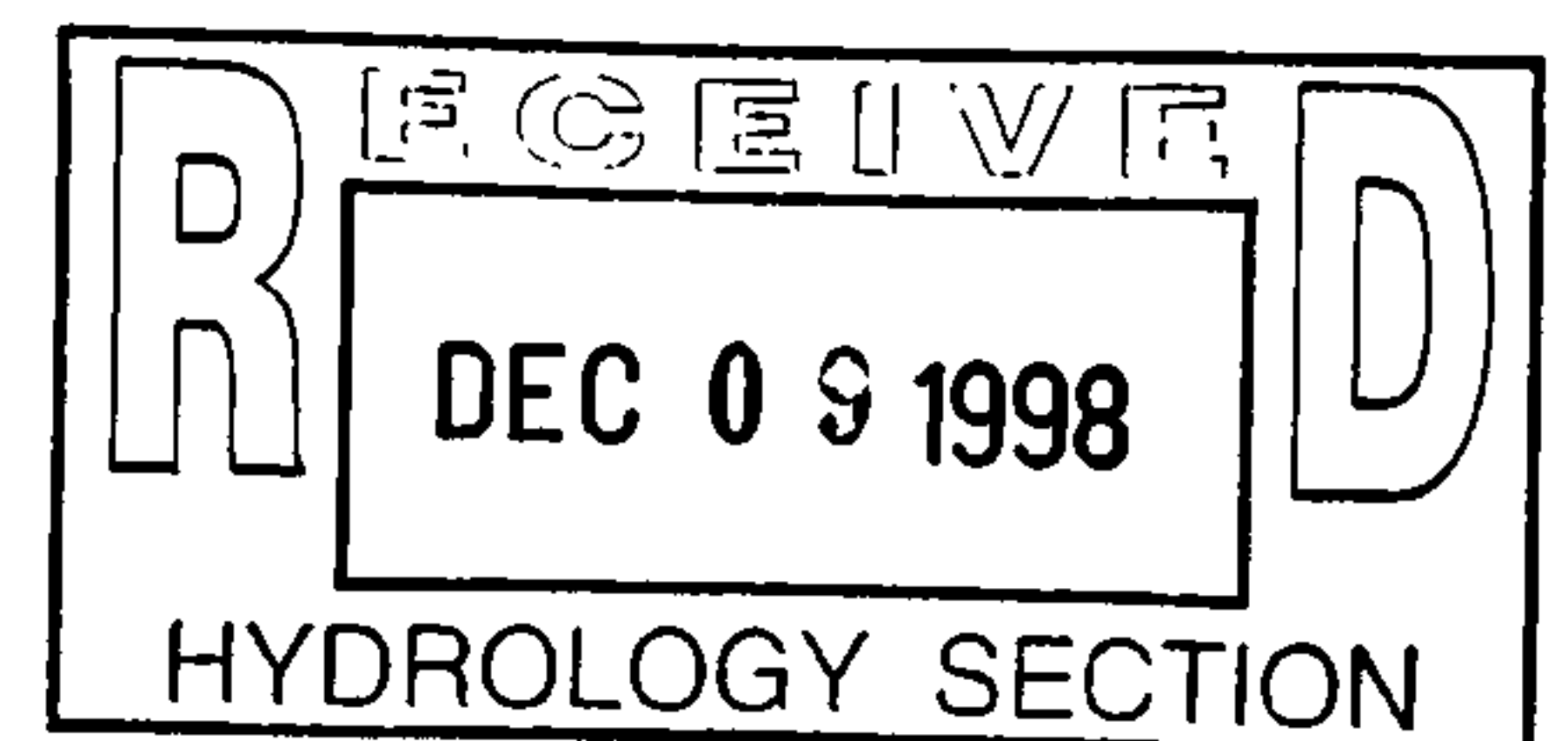
I am following up with your recent telephone conversation with New Day 's Executive Director, Mr. Jerry Otero. As he may have explained to you Mr. Victor Chavez from Chavez-Grievess will take the lead in conducting the final surveys and/or certifications necessary to satisfy your requirements for our Certificate of Occupancy, but can not perform this task until the end of next week. The work at 2820 Ridgecrest Dr. SE is complete and the final on hydrology is the only one needed.

We are under extreme pressure to move our kids into this facility as soon as possible, therefore I am requesting a 30 day temporary so that I can obtain our operators license and open this shelter by the beginning of the coming week.

Respectfully,



Tony Lipiz  
Deputy Director  
New Day Youth &  
Family Services

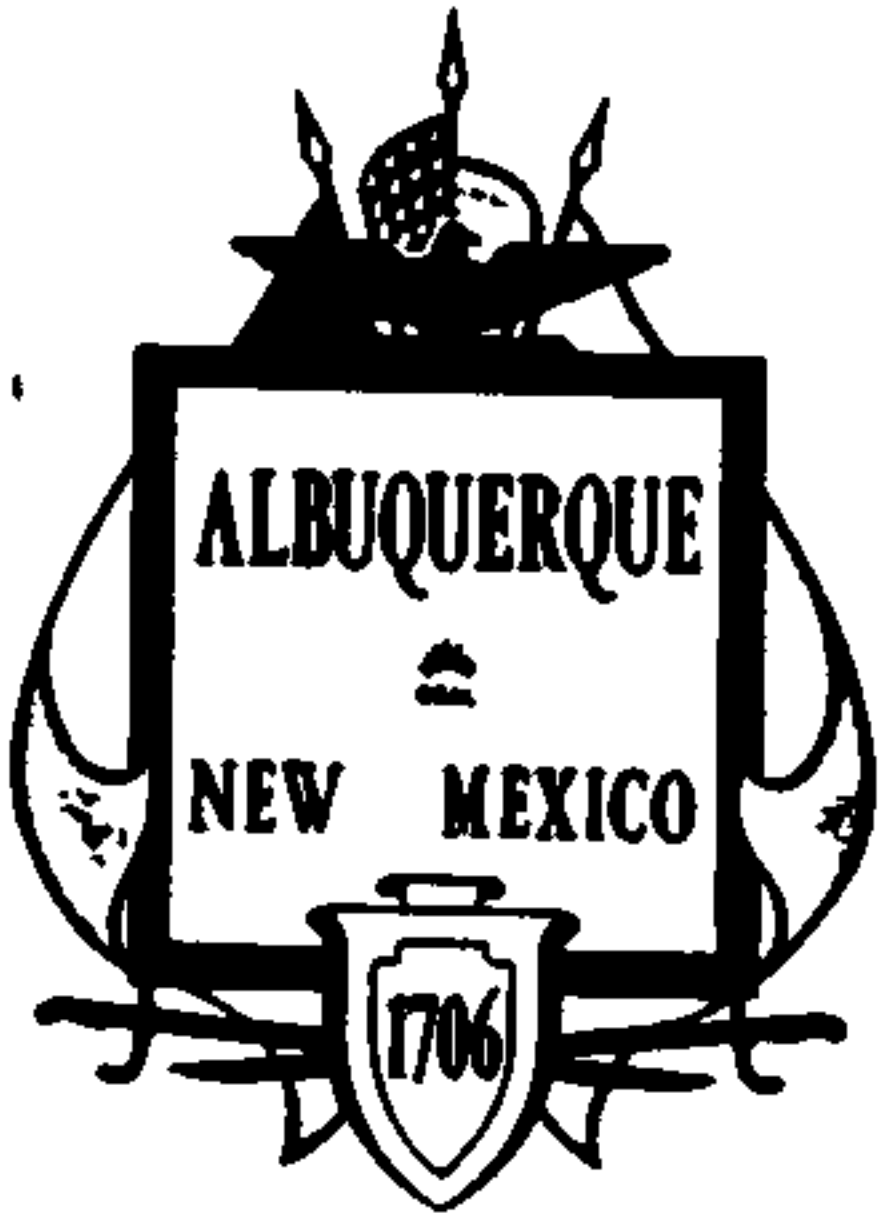


**NEWODAY**  
**YOUTH & FAMILY SERVICES**

**Tony Lipiz**  
**DEPUTY DIRECTOR**

**2820 Ridgecrest SE**  
**Albuquerque, New Mexico 87108**  
**Office: 881-5228 Fax: 881-5235 Mbl: 450-6704**





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 23, 1996

Ernie Salazar  
Chavez-Grieves  
5639 Jefferson NE  
Albuquerque, NM 87109

**RE: NEW DAY SHELTER (M18-D14) DRAINAGE AND GRADING PLAN FOR  
BUILDING PERMIT. ENGINEER'S STAMP DATED 2-28-96.**


Dear Mr. Salazar:

Based on the information provided on your April 4, 1996  
submittal, the above referenced project is approved for Building  
Permit.

Prior to Certificate of Occupancy, an Engineer's Certification  
will be required.

If I can be of further assistance, please feel free to contact me  
at 768-3622.

Sincerely,

  
Lisa Ann Manwill  
Engineering Assoc./Hyd.

c: Andrew Garcia  
File

\*

## DRAINAGE INFORMATION

PROJECT TITLE: NEW DAY SHELTER ZONE ATLAS/DRNG. FILE #: M-18-7 114

DRB#: 96-101 EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: NEW DAY SHELTER TRACT NE1/4, SEC 36, T.10N., R. 3E.

CITY ADDRESS: RIDGECREST DRIVE SE

ENGINEERING FIRM: Chavez-Grieves CONTACT: Ernie Salazar

ADDRESS: 5639 Jefferson NE PHONE: 344-4080

OWNER: New Day Shelters CONTACT: Jeff Burrows

ADDRESS: \_\_\_\_\_ PHONE: 881-5228

ARCHITECT: Gordon Allen Hall CONTACT: Gordon Allen Hall

ADDRESS: Albug. NM PHONE: 294-4050

SURVEYOR: Southwest Surveying CONTACT: Frank Wilson

ADDRESS: Albug. NM PHONE: 247-4444

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:

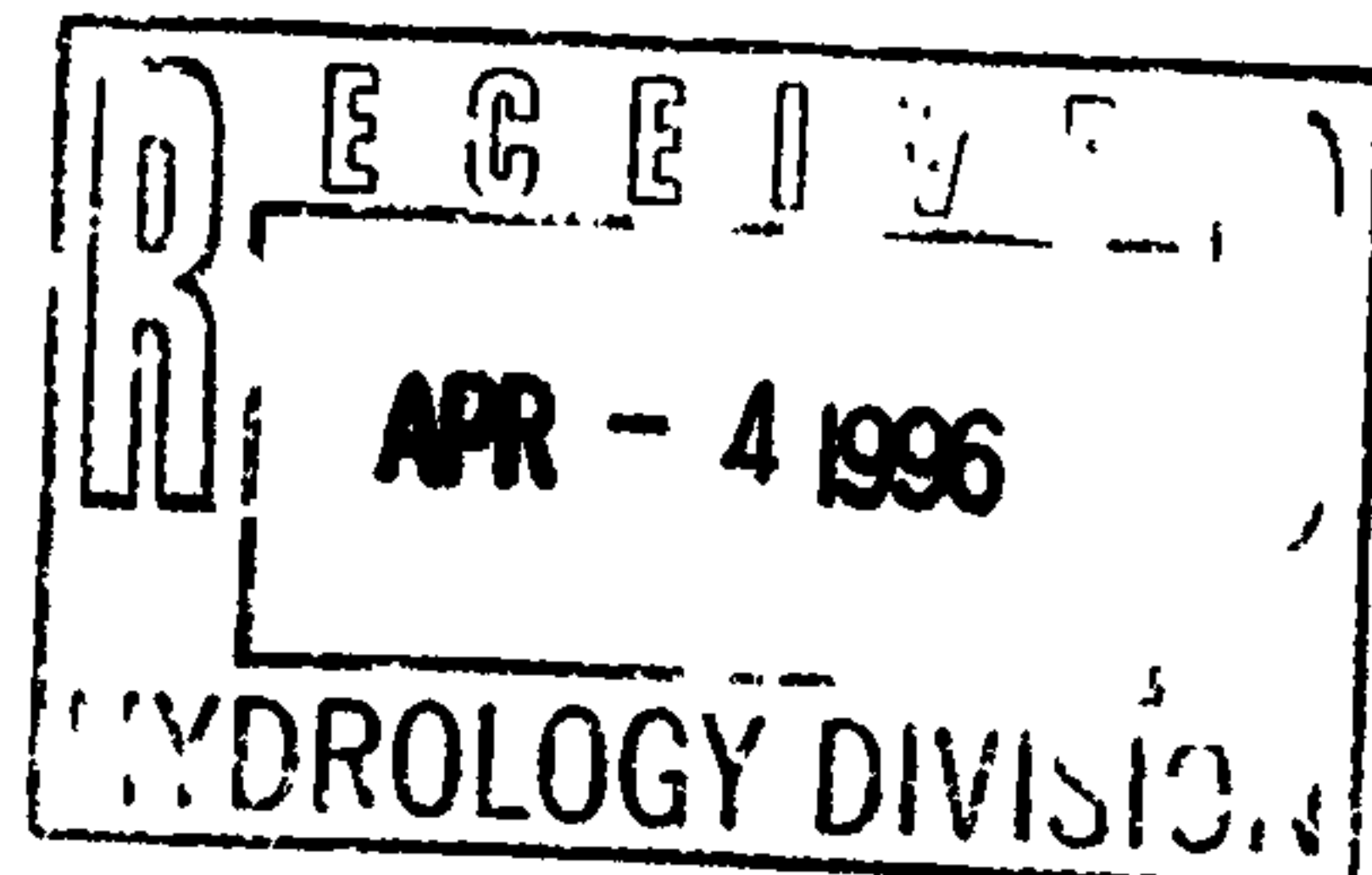
- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

### CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PRMT. 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
- ☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: April 3, 1996

BY: Ernie Salazar





5639 JEFFERSON STREET NE · ALBUQUERQUE, NEW MEXICO 87109 · PHONE (505) 344 4080 · FAX (505) 343 8759

April 3, 1996

Ms. Lisa Manwill  
City of Albuquerque  
P.O. Box 1293  
Albuquerque, New Mexico 87103

RE: NEW DAY SHELTER

Dear Ms. Manwill:

This letter is in response to comments made in your letter dated March 20, 1996. The comments are addressed as follows:

1. According to City records, Ridgecrest Street does not appear to have any storm drain facilities located in the area bounded by Louisiana on the east and San Pedro on the west. Our calculations, shown below, indicate that when Ridgecrest is completely developed, the capacity will be more than efficient to carry flows west to San Pedro without over-flowing and flooding adjacent properties. *sufficient?*

Ridgecrest Street Capacity = 104 cfs (per DPM - Sec 22, Plate 22.3, D-3)

Developed flows (per DPM Sec 22)

Precipitation Zone = 3

Land Treatment = D

$C = 0.93$

$i = 5.38$

AREA - Louisiana to San Pedro

Length = 2800 ft

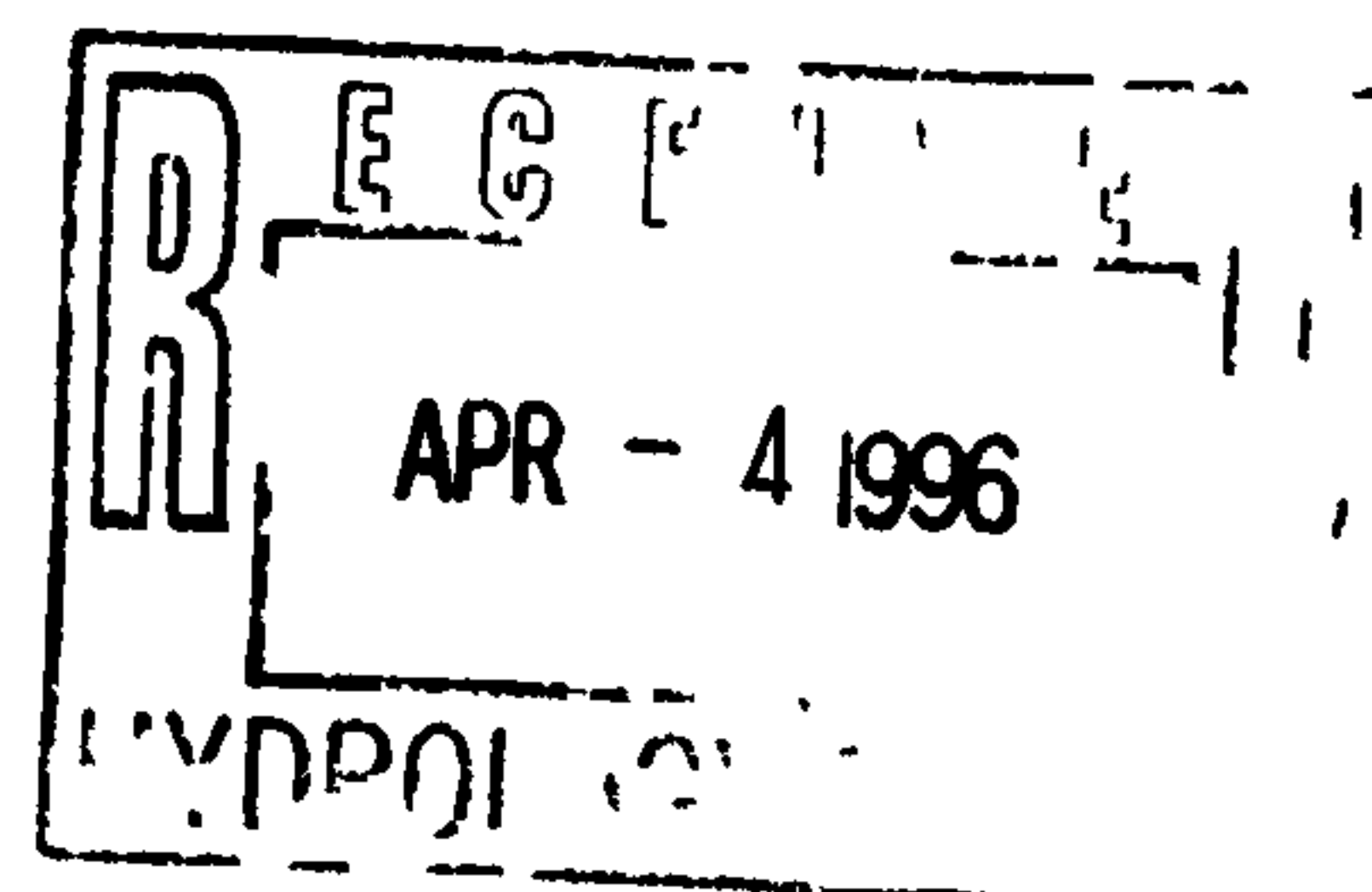
Width flowline to flowline = 48 ft (Ridgecrest classified as collector)

$48 \times 2800 = 134,400 \text{ sf} = 3.09 \text{ ac.}$

$CiA = 0.93 \times 5.38 \times 3.09 = 15.44 \text{ cfs}$

Developed (Capacity) = 104 cfs

Developed = 15.44 cfs



*Celebrating 15 Years of Engineering Leadership*



Ms. Lisa Manwill, City of Albuquerque  
New Day Shelter

Page 2  
April 3, 1996

2. The DRB number is provided on the attached Drainage Information Sheet. I am also attaching the Infrastructure List provided to us by Jeff Burrows, Director of New Day Shelters.

If you should have any questions, please feel free to contact me at 344-4080.

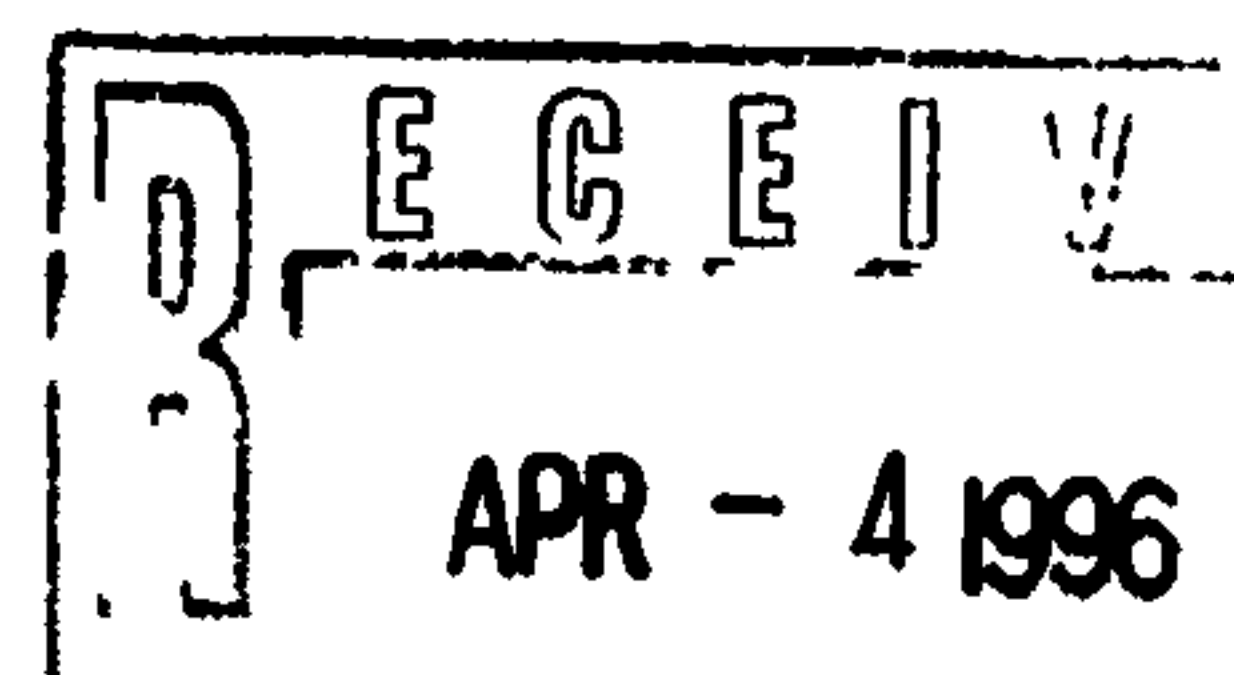
Sincerely,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

  
Ernie Salazar

ES/cjr

Enclosures



F:\SHARE\CIVIL\ERNIE\NEW'DAY LTR  
030120Y2



# NEW DAY SHELTERS

Shelter and Counseling for Runaway and otherwise Homeless Youth

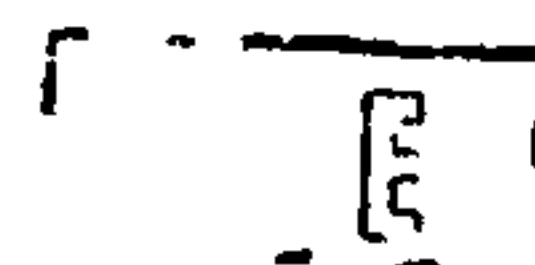
D.R.B. Case No. 96-101

Date Submitted 4/2/96

To Subdivision Improvements Agreement  
 DEVELOPMENT REVIEW BOARD (DRB) REQUIRED INFRASTRUCTURE LISTING  
 for New Day Shelters, Louisiana & Ridgecrest SE

Following is a summary of Public/Private Infrastructure required to be constructed or financially guaranteed to be constructed for the above development. This summary is not necessarily a complete listing. During the building process, if the City determines that other items have not been included in the summary, those items will be included in the listing and related financial guarantee, if the items normally are the owners responsibility. In addition, any unforeseen items which arise during construction which are necessary to complete the project and which normally are the owners responsibility are the responsibility of the owner and will be included in the financial guarantee provided to the City.

<u>Size</u>	<u>Type Improvement</u>	<u>Location</u>	<u>From</u>	<u>To</u>
24'	Residential Paving	Ridgecrest	24' on both	E. Boundary
--	Curb and Gutter		sides of driveways	
4' *	Sidewalk (S. side only)			



APR - 4 1996

TOPOLOGY DI ...



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 20, 1996

Ernie Salazar  
Chavez-Grieves  
5639 Jefferson NE  
Albuquerque, NM 87109

**RE: NEW DAY SHELTER (M18-D14) DRAINAGE AND GRADING PLAN FOR  
FOUNDATION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND  
PAVING PERMIT APPROVALS. ENGINEER'S STAMP DATED 2-28-96.**

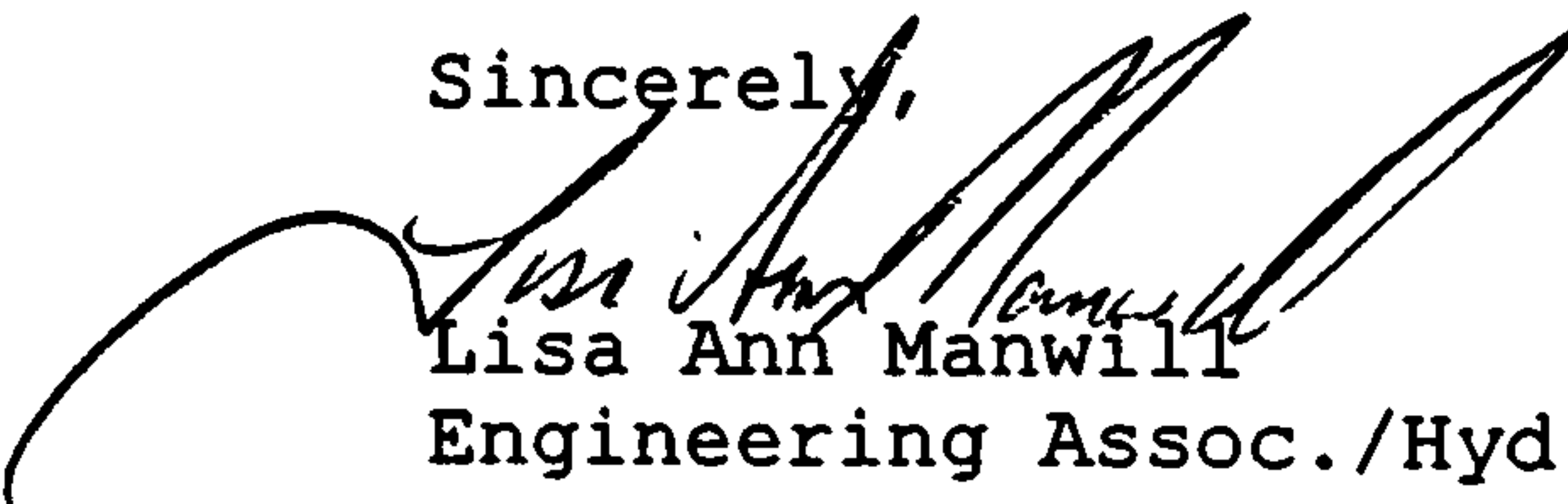
Dear Mr. Salazar:

Based on the information provided on your February 28, 1996  
submittal, the above referenced project is approved for  
Foundation Permit, Grading Permit, and Paving Permit. Prior to  
Building Permit approval, please address the following comments:

1. A letter dated February 6, 1996 from Mr. Fred Aguirre  
of City Hydrology to Mr. Victor Chavez requests that  
your plan incorporate Ridgcrest Street and Drainage  
requirements. I see no mention of Ridgcrest drainage  
requirements on your plan sheet.
2. Please provide the DRB # for this project on the  
Drainage Information Sheet. Is there an Infrastructure  
List associated with this project? If so, please  
provide me with a copy.

If I can be of further assistance, please feel free to contact me  
at 768-3622.

Sincerely,

  
Lisa Ann Manwill  
Engineering Assoc./Hyd.

c: Andrew Garcia  
File



# DRAINAGE INFORMATION

PROJECT TITLE: NEW DAY SHELTER ZONE ATLAS/DRNG. FILE #: M-18-1014

DRB#: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: NEW DAY SHELTER TRACT NE1/4, SEC 36, T.10N., R. 3E.

CITY ADDRESS: RIDGECREST DRIVE SE

ENGINEERING FIRM: Chavez-Grieves CONTACT: Ernie Salazar

ADDRESS: 5639 Jefferson NE PHONE: 344-4080

OWNER: New Day Shelters CONTACT: Jeff Burrows

ADDRESS: \_\_\_\_\_ PHONE: 881-5228

ARCHITECT: Gordon Allen Hall CONTACT: Gordon Allen Hall

ADDRESS: Albug. NM PHONE: 294-4050

SURVEYOR: Southwest Surveying CONTACT: Frank Wilson

ADDRESS: Albug. NM PHONE: 247-4444

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 PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ S. DEV. PLAN FOR SUB'D. APPROVAL  
☐ S. DEV. PLAN FOR BLDG. PRMT. 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  
☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: Feb. 27, 1996

BY: Ernie Salazar

2/29/96  
Needs street  
EVALUATOR  
FOR STORM  
DRAIN REQUIREMENTS  
ADVISED  
ERNE SALAZAR

1-28-1996  
FEB 28 1996  
BY ENGINEER

Andrew  
OK FOR  
Foundation  
only  
F.O. issued on  
3-1-96  
Ag.



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 6, 1996

Victor Chavez  
Chavez-Grievess  
5639 Jefferson NE  
Albuquerque, NM 87109

RE: NEW DAY SHELTER, (M18-D14) ENGINEER'S STAMP DATED 2/1/96.

Dear Mr. Chavez:

The above referenced drainage plan is approved for Rough Grading only. In order to get Building Permit/Site Plan approval, a comprehensive drainage plan will be required. This plan will need to incorporate Ridgecrest Street and Drainage Requirements.

If you should have any questions, feel free to contact me at 768-2668.

Sincerely,

Fred J. Aguirre  
PWD/Hydrology

FJA/dl

c: Andrew Garcia

 File

## DRAINAGE INFORMATION

PROJECT TITLE: NEW DAY SHELTER ZONE ATLAS/DRNG. FILE #: M-18-Z / 1014

DRB#: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: NEW DAY SHELTER TRACT NE1/4, SEC 36, T.10N., R. 3E.

CITY ADDRESS: RIDGECREST DRIVE SE

ENGINEERING FIRM: Chavez-Grieves CONTACT: Ernie Salazar

ADDRESS: 5639 Jefferson NE PHONE: 344-4080

OWNER: New Day Shelters CONTACT: Jeff Burrows

ADDRESS: \_\_\_\_\_ PHONE: 881-5228

ARCHITECT: Gordon Allen Hall CONTACT: Gordon Allen Hall

ADDRESS: Albug. NM PHONE: 294-4050

SURVEYOR: Southwest Surveying CONTACT: Frank Wilson

ADDRESS: Albug. NM PHONE: 247-4444

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:

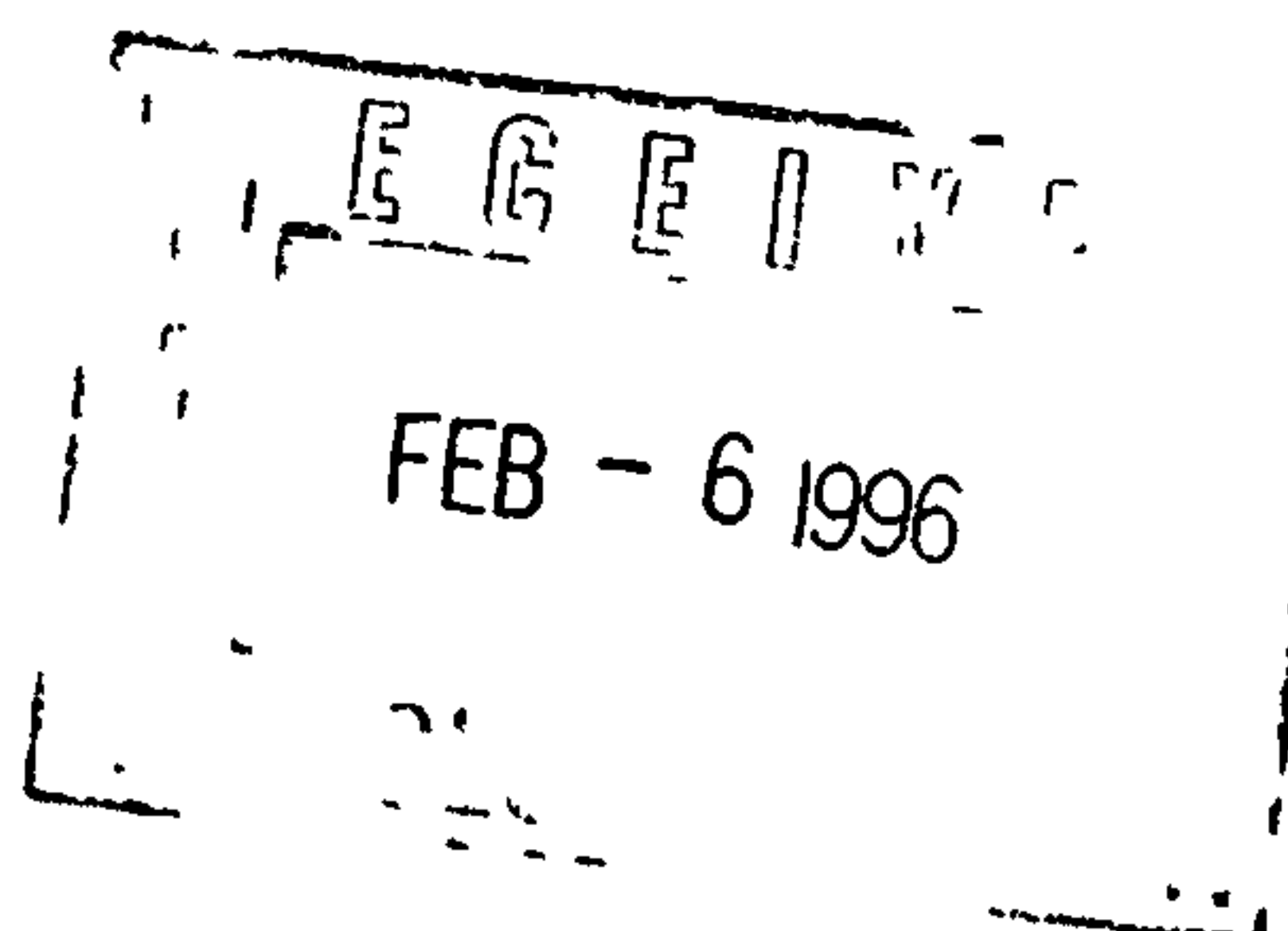
- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

### CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PRMT. APPROVAL
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- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER Rough Grading (SPECIFY)

DATE SUBMITTED: Feb. 1 1996

BY: Ernie Salazar





# AHYMO Output -- New Day Shelter

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994  
 RUN DATE (MON/DAY/YR) = 01/26/1996  
 START TIME (HR:MIN:SEC) = 14:12:59 USER NO.= CHVZ\_GNM.I01  
 INPUT FILE = ahymo.in

\*S\*\*\*\*\*  
 \*S\*\*\*\*\* CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC. \*\*\*\*\*  
 \*S\*\*\*\*\* NEW DAY SHELTER \*\*\*\*\*  
 \*S\*\*\*\*\*  
 \*S\* FILENAME: C:\ACAD\ERNIE\NEWDAY\AHYMO.IN/OUT  
 \*S\*\*\*\*\*  
 \*S\*\*\*\*\* 100 YEAR, 6 HOUR STORM  
 START 0.00  
 RAINFALL TYPE=1 RAIN QUARTER=0.0 RAIN ONE=2.04  
 RAIN SIX=2.45 RAIN DAY=2.91 DT=0.03333

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT = .033330 HOURS		END TIME = 5.999400 HOURS	
.0000	.0023	.0046	.0070
.0094	.0119	.0145	.0171
.0225	.0253	.0282	.0311
.0373	.0405	.0438	.0472
.0507	.0544	.0582	.0621
.0661	.0703	.0747	.0793
.0841	.0892	.0944	.1000
.1059	.1116	.1176	.1240
.1379	.1688	.2164	.2849
.3783	.5010	.6575	.8524
1.0902	1.3110	1.4032	1.4810
1.5503	1.6132	1.6712	1.7251
1.7753	1.8225	1.8669	1.9087
1.9483	1.9857	2.0212	2.0548
2.0867	2.1170	2.1458	2.1529
2.1595	2.1657	2.1717	2.1775
2.1830	2.1883	2.1934	2.1983
2.2031	2.2077	2.2122	2.2166
2.2208	2.2249	2.2290	2.2329
2.2367	2.2405	2.2441	2.2477
2.2512	2.2547	2.2581	2.2614
2.2646	2.2678	2.2709	2.2740
2.2770	2.2800	2.2829	2.2858
2.2887	2.2915	2.2942	2.2969
2.2996	2.3023	2.3049	2.3074
2.3100	2.3125	2.3149	2.3174
2.3198	2.3222	2.3245	2.3269
2.3292	2.3315	2.3337	2.3359
2.3382	2.3403	2.3425	2.3446
2.3467	2.3488	2.3509	2.3530
2.3550	2.3570	2.3590	2.3610
2.3630	2.3649	2.3668	2.3688
2.3706	2.3725	2.3744	2.3762
2.3781	2.3799	2.3817	2.3835
2.3853	2.3870	2.3888	2.3905
2.3922	2.3939	2.3956	2.3973
2.3990	2.4007	2.4023	2.4040
2.4056	2.4072	2.4088	2.4104
2.4120	2.4136	2.4151	2.4167
2.4182	2.4198	2.4213	2.4228
2.4243	2.4258	2.4273	2.4288
2.4302	2.4317	2.4332	2.4346
2.4360	2.4375	2.4389	2.4403
2.4417	2.4431	2.4445	2.4459
2.4472	2.4486	2.4500	

\*S\*\*\*\*\* COMPUTE THE RUNOFF FROM THE EXISTING BASIN \*\*\*\*\*  
 COMPUTE NM HYD ID=10 HYD=EXISTING DA=.00280 SQ MI  
 %A=100 %B=0 %C=0 %D=0  
 TP=0.1333 RAINFALL=-1

K = .159398HR TP = .133300HR K/TP RATIO = 1.195785 SHAPE CONSTANT, N = 2.970784  
 UNIT PEAK = 5.8695 CFS UNIT VOLUME = .9974 B = 279.43 P60 = 2.0400  
 AREA = .002800 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=10 CODE=1

HYDROGRAPH FROM AREA EXISTING

RUNOFF VOLUME = .57324 INCHES = .0856 ACRE-FEET  
 PEAK DISCHARGE RATE = 3.00 CFS AT 1.533 HOURS BASIN AREA = .0028 SQ. MI.

FEB - 6 1996

AHYMO Output -- New Day Shelter

\*S\*\*\*\*\* COMPUTE RUNOFF FROM DEVELOPED BASINS \*\*\*\*\*

\*S BASIN B

COMPUTE NM HYD ID=1 HYD=BASIN\_B DA=.00169 SQ MI  
%A=40 %B=52 %C=0 %D=8  
TP=0.1333 RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
UNIT PEAK = .53378 CFS UNIT VOLUME = .9786 B = 526.28 P60 = 2.0400  
AREA = .000135 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .144166HR TP = .133300HR K/TP RATIO = 1.081518 SHAPE CONSTANT, N = 3.266558  
UNIT PEAK = 3.5328 CFS UNIT VOLUME = .9960 B = 302.88 P60 = 2.0400  
AREA = .001555 SQ MI IA = .56522 INCHES INF = 1.43261 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA BASIN\_B

RUNOFF VOLUME = .82483 INCHES = .0743 ACRE-FEET  
PEAK DISCHARGE RATE = 2.46 CFS AT 1.500 HOURS BASIN AREA = .0017 SQ. MI.

\*S BASIN A

COMPUTE NM HYD ID=2 HYD=BASIN\_A DA=.00111 SQ MI  
%A=0 %B=44 %C=0 %D=56  
TP=0.1333 RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
UNIT PEAK = 2.4541 CFS UNIT VOLUME = .9949 B = 526.28 P60 = 2.0400  
AREA = .000622 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .132450HR TP = .133300HR K/TP RATIO = .993620 SHAPE CONSTANT, N = 3.553252  
UNIT PEAK = 1.1878 CFS UNIT VOLUME = .9889 B = 324.20 P60 = 2.0400  
AREA = .000488 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=2 CODE=1

HYDROGRAPH FROM AREA BASIN\_A

RUNOFF VOLUME = 1.60027 INCHES = .0947 ACRE-FEET  
PEAK DISCHARGE RATE = 2.67 CFS AT 1.500 HOURS BASIN AREA = .0011 SQ. MI.

\*S ROUTE THIS RUNOFF THROUGH THE DETENTION POND IN BASIN A.

ROUTE RESERVOIR ID=3 HYD=BASIN\_A\_ROUTE INFLOW ID=2 CODE=10

OUTFLOW (CFS)	STORAGE (AC_FT)	ELEVATION
0	0	5362.1
.54	.125	5363.6

\* \* \* \* \*

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5362.10	.000	.00

AHYMO Output -- New Day Shelter

.33	.00	5362.10	.000	.00
.67	.00	5362.10	.000	.00
1.00	.00	5362.10	.000	.00
1.33	.63	5362.14	.004	.02
1.67	1.40	5362.73	.052	.22
2.00	.55	5362.92	.068	.29
2.33	.13	5362.92	.068	.30
2.67	.05	5362.85	.063	.27
3.00	.03	5362.78	.057	.25
3.33	.02	5362.71	.051	.22
3.67	.02	5362.65	.046	.20
4.00	.01	5362.59	.041	.18
4.33	.01	5362.54	.037	.16
4.67	.01	5362.50	.033	.14
5.00	.01	5362.46	.030	.13
5.33	.01	5362.42	.027	.12
5.67	.02	5362.39	.024	.10
6.00	.02	5362.36	.022	.09
6.33	.00	5362.33	.020	.08
6.67	.00	5362.31	.017	.07
7.00	.00	5362.29	.015	.07
7.33	.00	5362.26	.014	.06
7.67	.00	5362.25	.012	.05
8.00	.00	5362.23	.011	.05
8.33	.00	5362.21	.010	.04
8.67	.00	5362.20	.009	.04
9.00	.00	5362.19	.008	.03
9.33	.00	5362.18	.007	.03
9.67	.00	5362.17	.006	.03
10.00	.00	5362.16	.005	.02
10.33	.00	5362.16	.005	.02
10.67	.00	5362.15	.004	.02
11.00	.00	5362.14	.004	.02
11.33	.00	5362.14	.003	.01
11.67	.00	5362.14	.003	.01
12.00	.00	5362.13	.003	.01
12.33	.00	5362.13	.002	.01
12.67	.00	5362.12	.002	.01
13.00	.00	5362.12	.002	.01
13.33	.00	5362.12	.002	.01
13.67	.00	5362.12	.001	.01
14.00	.00	5362.12	.001	.01
14.33	.00	5362.11	.001	.00

PEAK DISCHARGE = .302 CFS - PEAK OCCURS AT HOUR 2.13  
MAXIMUM WATER SURFACE ELEVATION = 5362.940  
MAXIMUM STORAGE = .0700 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=3 CODE=1

HYDROGRAPH FROM AREA BASIN\_A\_ROUTE

RUNOFF VOLUME = 1.59750 INCHES = .0946 ACRE- FEET  
PEAK DISCHARGE RATE = .30 CFS AT 2.133 HOURS BASIN AREA = .0011 SQ. MI.

\*S ADD FOR THE TOTAL DEVELOPED RUNOFF.  
ADD HYD ID=1 HYD=TOTAL\_DEV ID I=1 ID II=3  
PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA TOTAL\_DEV

RUNOFF VOLUME = 1.13051 INCHES = .1688 ACRE- FEET

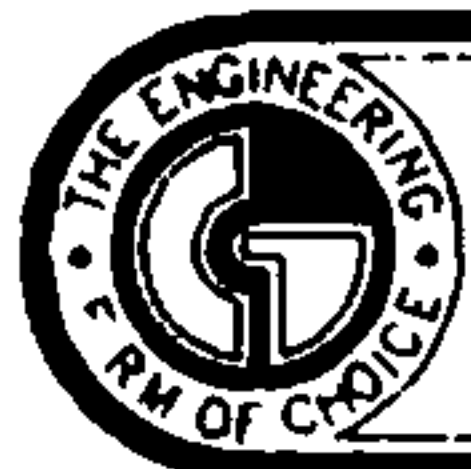


## AHYMO Output -- New Day Shelter

PEAK DISCHARGE RATE = 2.59 CFS AT 1.533 HOURS BASIN AREA = .0028 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 14:13:01



# CHAVEZ • GRIEVES CONSULTING ENGINEERS, INC.

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

JOB NEW DAY / SHELTER

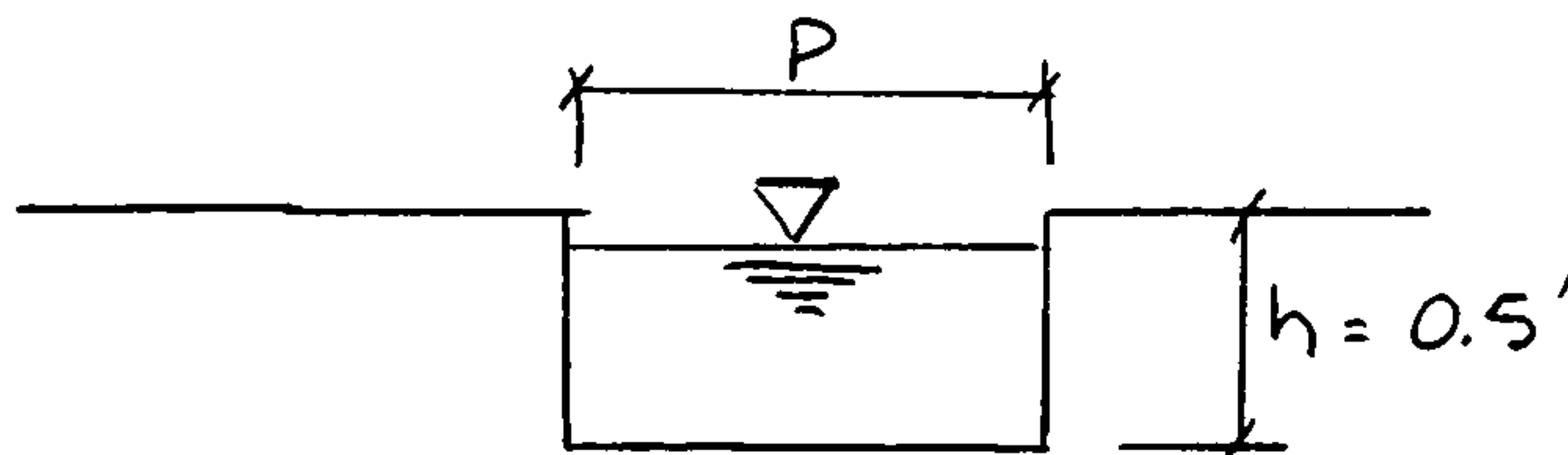
SUBJECT \_\_\_\_\_

CLIENT \_\_\_\_\_

JOB NO. \_\_\_\_\_

BY ERNIE SALAZAR DATE 1/26/96

## DESIGN OF CONTROLLED DISCHARGE FROM POND



WIER EQUATION:

$$Q = 3.3 P(h)^{1.5}$$

$$Q_{req} = 0.54 \text{ PER ACRYMO RUN}$$

$$0.54 = 3.3 P(0.5)^{1.5}$$

$$P = \frac{0.54}{(3.3)(0.5)^{1.5}}$$

$$P = \underline{\underline{0.46'}}$$

NOTE: P WILL BE INCREASE TO 1.0' TO  
INCLUDE CLOGGING FACTOR

M18-D14

VERBAL: 1/30/96

NO

Rpm



## DRAINAGE INFORMATION

PROJECT TITLE: NEW DAY SHELTER ZONE ATLAS/DRNG. FILE #: M-18-2 / 1014  
DRB#: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_  
LEGAL DESCRIPTION: NEW DAY SHELTER TRACT NE1/4, SEC 36, T.10N., R. 3E.  
CITY ADDRESS: RIDGECREST DRIVE SE 2820  
ENGINEERING FIRM: Chavez-Grieves CONTACT: Ernie Salazar  
ADDRESS: 5639 Jefferson NE PHONE: 344-4080  
OWNER: New Day Shelters CONTACT: Jeff Burrows  
ADDRESS: \_\_\_\_\_ PHONE: 881-5228  
ARCHITECT: Gordon Allen Hall CONTACT: Gordon Allen Hall  
ADDRESS: Albug. NM PHONE: 294-4050  
SURVEYOR: Southwest Surveying CONTACT: Frank Wilson  
ADDRESS: Albug. NM PHONE: 247-4444  
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 PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ S. DEV. PLAN FOR SUB'D. APPROVAL  
☐ S. DEV. PLAN FOR BLDG. PRMT. 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  
☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: Jan. 26, 1996

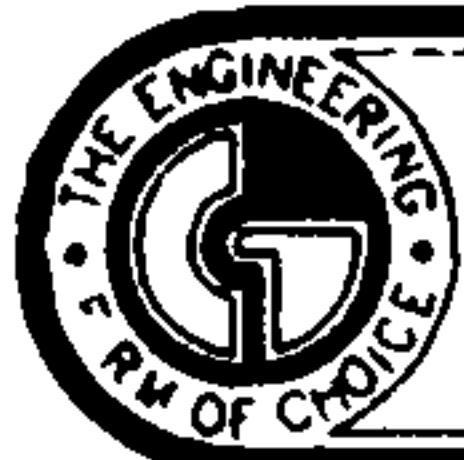
BY: Ernie Salazar

VERBAL: 1/30/96

1. Site Plan approval required
2. Street & Storm Sewer improvements
- 3.

**D R A I N A G E**

JAN 29 1996



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SHEET NO. 1 OF 6  
JOB NEW DAY SHELTER  
SUBJECT GRADING & DRAINAGE REPORT  
CLIENT \_\_\_\_\_  
JOB NO. \_\_\_\_\_  
BY ERNIE SALAZAR DATE 1/26/96

## RUNOFF SUMMARY

### EXISTING CONDITIONS

PRESENTLY, RUNOFF FROM THE SITE SHEET FLOWS WEST INTO ADJACENT PROPERTIES. THE SITE IS DENSELY COVERED WITH DESERT VEGETATION CAUSING HIGH INFILTRATION AND LOW RUNOFF INTO ADJACENT PROPERTIES.

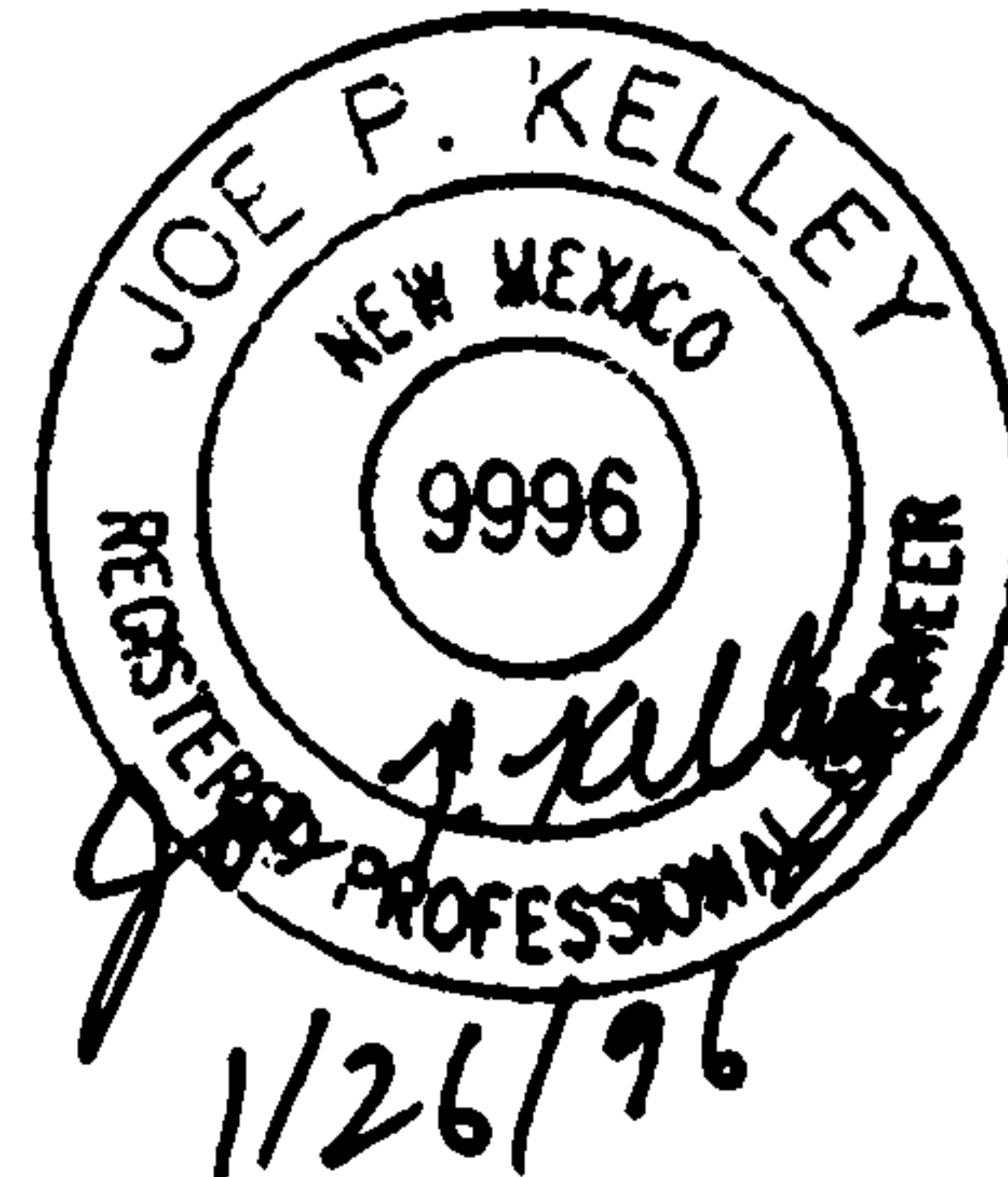
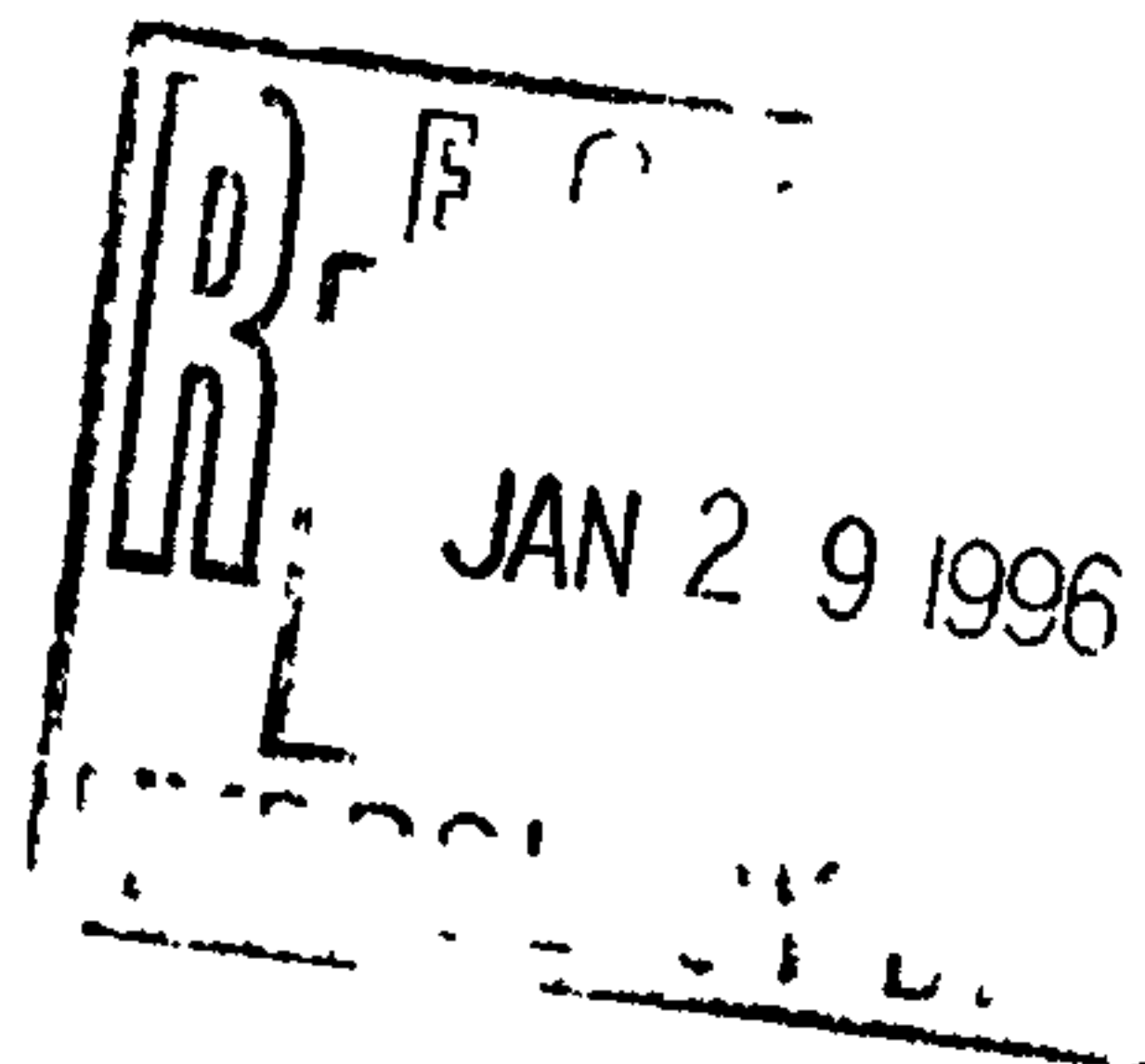
### PROPOSED CONDITIONS

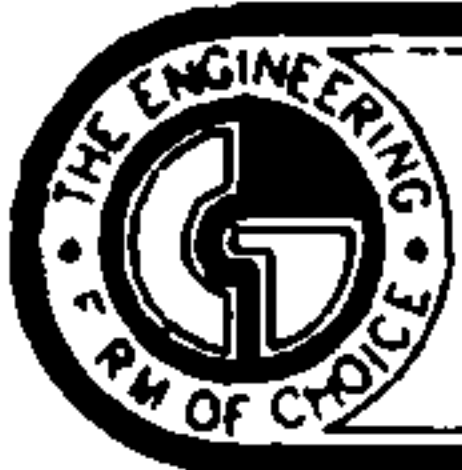
PROPOSED DEVELOPMENT OF THE SITE INCLUDES CONSTRUCTION OF A NEW SINGLE-STORY BUILDING APPROXIMATELY 7000 sq.ft., INCLUDING 12,000 sq.ft. OF ASPHALT PARKING AND 3800 sq.ft. OF CONCRETE SIDEWALK & A BASKETBALL COURT. BASIN "A" WHICH INCLUDES THE PARKING AREA & THE BUILDING'S ROOF DRAIN SYSTEM WHICH WILL DISCHARGE INTO THE FRONT PARKING AREA. BASIN "B" INCLUDES ALL OTHER DEVELOPED AREAS. BASIN "A" WILL BE ROUTED THROUGH A POND LOCATED IN THE LANDSCAPED AREA WEST OF THE PARKING AREA.

$Q_{100}$  TOTAL SITE DISCHARGE

EXISTING 3.00 CFS

PROPOSED 2.59 CFS.





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

JOB NEW DAY / SHELTER

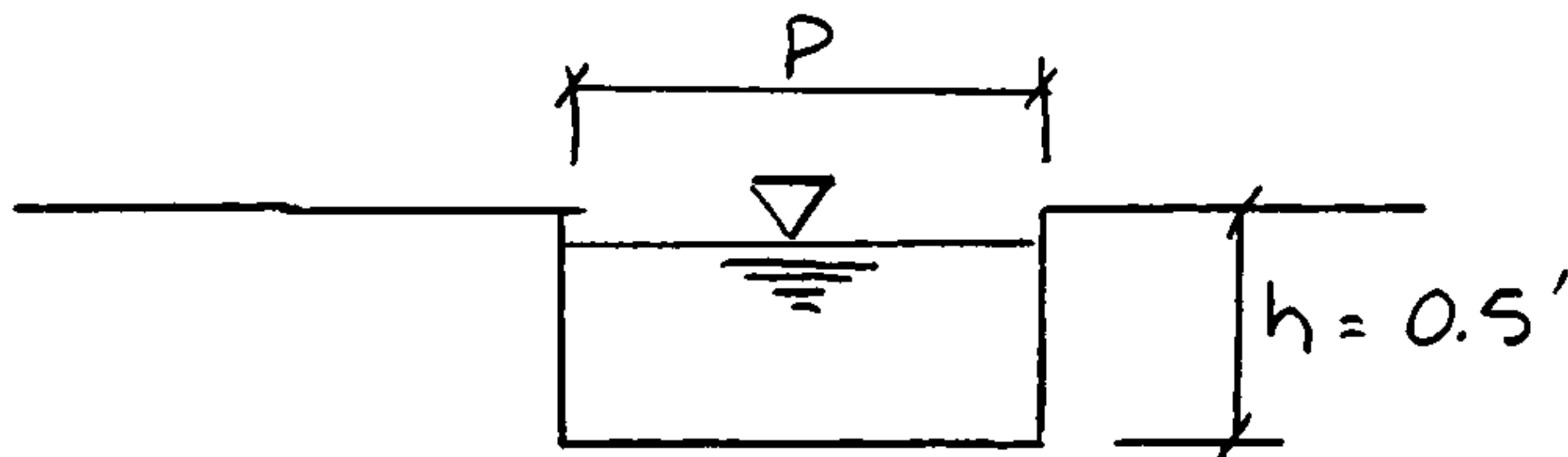
SUBJECT \_\_\_\_\_

CLIENT \_\_\_\_\_

JOB NO. \_\_\_\_\_

BY ERNIE SALAZAR DATE 1/26/96

## DESIGN OF CONTROLLED DISCHARGE FROM POND



WIER EQUATION:

$$Q = 3.3 P(h)^{1.5}$$

$$Q_{req} = 0.54 \text{ PER ACRYMO RUN}$$

$$0.54 = 3.3 P(0.5)^{1.5}$$

$$P = \frac{0.54}{(3.3)(0.5)^{1.5}}$$

$$P = \underline{\underline{0.46'}}$$

NOTE: P WILL BE INCREASE TO 1.0' TO  
INCLUDE CLOGGING FACTOR



## AHYMO Output -- New Day Shelter

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994  
RUN DATE (MON/DAY/YR) = 01/26/1996  
START TIME (HR:MIN:SEC) = 14:12:59      USER NO.= CHVZ\_GNM.I01  
INPUT FILE = ahymo.in

\*S\*\*\*\*\*  
\*S\*\*\*\*\* CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC. \*\*\*\*\*  
\*S\*\*\*\*\* NEW DAY SHELTER \*\*\*\*\*  
\*S\*\*\*\*\*  
\*S\* FILENAME: C:\ACAD\ERNIE\NEWDAY\AHYMO.IN/OUT  
\*S\*\*\*\*\*  
\*S\*\*\*\*\* 100 YEAR, 6 HOUR STORM  
START                      0.00  
RAINFALL                  TYPE=1 RAIN QUARTER=0.0 RAIN ONE=2.04  
                            RAIN SIX=2.45 RAIN DAY=2.91    DT=0.03333

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT =	.033330 HOURS	END TIME =	5.999400 HOURS
.0000	.0023	.0046	.0070
.0171	.0198	.0225	.0253
.0373	.0405	.0438	.0472
.0621	.0661	.0703	.0747
.0944	.1000	.1059	.1116
.1688	.2164	.2849	.3783
1.0902	1.3110	1.4032	1.4810
1.7251	1.7753	1.8225	1.8669
2.0212	2.0548	2.0867	2.1170
2.1657	2.1717	2.1775	2.1830
2.2031	2.2077	2.2122	2.2166
2.2329	2.2367	2.2405	2.2441
2.2581	2.2614	2.2646	2.2678
2.2800	2.2829	2.2858	2.2887
2.2996	2.3023	2.3049	2.3074
2.3174	2.3198	2.3222	2.3245
2.3337	2.3359	2.3382	2.3403
2.3488	2.3509	2.3530	2.3550
2.3630	2.3649	2.3668	2.3688
2.3762	2.3781	2.3799	2.3817
2.3888	2.3905	2.3922	2.3939
2.4007	2.4023	2.4040	2.4056
2.4120	2.4136	2.4151	2.4167
2.4228	2.4243	2.4258	2.4273
2.4332	2.4346	2.4360	2.4375
2.4431	2.4445	2.4459	2.4472
			2.4486
			2.4500

\*S\*\*\*\*\* COMPUTE THE RUNOFF FROM THE EXISTING BASIN \*\*\*\*\*  
COMPUTE NM HYD      ID=10    HYD=EXISTING    DA=.00280 SQ MI  
                            %A=100    %B=0    %C=0    %D=0  
                            TP=0.1333    RAINFALL=-1

K = .159398HR    TP = .133300HR    K/TP RATIO = 1.195785    SHAPE CONSTANT, N = 2.970784  
UNIT PEAK = 5.8695    CFS    UNIT VOLUME = .9974    B = 279.43    P60 = 2.0400  
AREA = .002800 SQ MI    IA = .65000 INCHES    INF = 1.67000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD              ID=10    CODE=1

HYDROGRAPH FROM AREA EXISTING

RUNOFF VOLUME = .57324 INCHES    = .0856 ACRE-FEET  
PEAK DISCHARGE RATE = 3.00 CFS    AT 1.533 HOURS    BASIN AREA = .0028 SQ. MI.

AHYMO Output -- New Day Shelter

\*S\*\*\*\*\* COMPUTE RUNOFF FROM DEVELOPED BASINS \*\*\*\*\*

\*S BASIN B

COMPUTE NM HYD ID=1 HYD=BASIN\_B DA=.00169 SQ MI  
%A=40 %B=52 %C=0 %D=8  
TP=0.1333 RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
UNIT PEAK = .53378 CFS UNIT VOLUME = .9786 B = 526.28 P60 = 2.0400  
AREA = .000135 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .144166HR TP = .133300HR K/TP RATIO = 1.081518 SHAPE CONSTANT, N = 3.266558  
UNIT PEAK = 3.5328 CFS UNIT VOLUME = .9960 B = 302.88 P60 = 2.0400  
AREA = .001555 SQ MI IA = .56522 INCHES INF = 1.43261 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA BASIN\_B

RUNOFF VOLUME = .82483 INCHES = .0743 ACRE-FEET  
PEAK DISCHARGE RATE = 2.46 CFS AT 1.500 HOURS BASIN AREA = .0017 SQ. MI.

\*S BASIN A

COMPUTE NM HYD ID=2 HYD=BASIN\_A DA=.00111 SQ MI  
%A=0 %B=44 %C=0 %D=56  
TP=0.1333 RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
UNIT PEAK = 2.4541 CFS UNIT VOLUME = .9949 B = 526.28 P60 = 2.0400  
AREA = .000622 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .132450HR TP = .133300HR K/TP RATIO = .993620 SHAPE CONSTANT, N = 3.553252  
UNIT PEAK = 1.1878 CFS UNIT VOLUME = .9889 B = 324.20 P60 = 2.0400  
AREA = .000488 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=2 CODE=1

HYDROGRAPH FROM AREA BASIN\_A

RUNOFF VOLUME = 1.60027 INCHES = .0947 ACRE-FEET  
PEAK DISCHARGE RATE = 2.67 CFS AT 1.500 HOURS BASIN AREA = .0011 SQ. MI.

\*S ROUTE THIS RUNOFF THROUGH THE DETENTION POND IN BASIN A.

ROUTE RESERVOIR ID=3 HYD=BASIN\_A\_ROUTE INFLOW ID=2 CODE=10

OUTFLOW (CFS)	STORAGE (AC_FT)	ELEVATION
0	0	5362.1
.54	.125	5363.6

\* \* \* \* \*

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5362.10	.000	.00

# AHYMO Output -- New Day Shelter

.33	.00	5362.10	.000	.00
.67	.00	5362.10	.000	.00
1.00	.00	5362.10	.000	.00
1.33	.63	5362.14	.004	.02
1.67	1.40	5362.73	.052	.22
2.00	.55	5362.92	.068	.29
2.33	.13	5362.92	.068	.30
2.67	.05	5362.85	.063	.27
3.00	.03	5362.78	.057	.25
3.33	.02	5362.71	.051	.22
3.67	.02	5362.65	.046	.20
4.00	.01	5362.59	.041	.18
4.33	.01	5362.54	.037	.16
4.67	.01	5362.50	.033	.14
5.00	.01	5362.46	.030	.13
5.33	.01	5362.42	.027	.12
5.67	.02	5362.39	.024	.10
6.00	.02	5362.36	.022	.09
6.33	.00	5362.33	.020	.08
6.67	.00	5362.31	.017	.07
7.00	.00	5362.29	.015	.07
7.33	.00	5362.26	.014	.06
7.67	.00	5362.25	.012	.05
8.00	.00	5362.23	.011	.05
8.33	.00	5362.21	.010	.04
8.67	.00	5362.20	.009	.04
9.00	.00	5362.19	.008	.03
9.33	.00	5362.18	.007	.03
9.67	.00	5362.17	.006	.03
10.00	.00	5362.16	.005	.02
10.33	.00	5362.16	.005	.02
10.67	.00	5362.15	.004	.02
11.00	.00	5362.14	.004	.02
11.33	.00	5362.14	.003	.01
11.67	.00	5362.14	.003	.01
12.00	.00	5362.13	.003	.01
12.33	.00	5362.13	.002	.01
12.67	.00	5362.12	.002	.01
13.00	.00	5362.12	.002	.01
13.33	.00	5362.12	.002	.01
13.67	.00	5362.12	.001	.01
14.00	.00	5362.12	.001	.01
14.33	.00	5362.11	.001	.00

PEAK DISCHARGE = .302 CFS - PEAK OCCURS AT HOUR 2.13  
 MAXIMUM WATER SURFACE ELEVATION = 5362.940  
 MAXIMUM STORAGE = .0700 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=3 CODE=1

## HYDROGRAPH FROM AREA BASIN\_A\_ROUTE

RUNOFF VOLUME = 1.59750 INCHES = .0946 ACRE-FEET  
 PEAK DISCHARGE RATE = .30 CFS AT 2.133 HOURS BASIN AREA = .0011 SQ. MI.

\*S ADD FOR THE TOTAL DEVELOPED RUNOFF.

ADD HYD ID=1 HYD=TOTAL\_DEV ID I=1 ID II=3  
 PRINT HYD ID=1 CODE=1

## HYDROGRAPH FROM AREA TOTAL\_DEV

RUNOFF VOLUME = 1.13051 INCHES = .1688 ACRE-FEET



## AHYMO Output -- New Day Shelter

PEAK DISCHARGE RATE = 2.59 CFS AT 1.533 HOURS BASIN AREA = .0028 SQ. MI.

### FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 14:13:01