Mesa Reprographics
5901 Lomas Blvd. NE
262-2046 office
256-9435 fax

Date: 03-23-07

PLEASE CALL/DELIVER COPIES & INVOICE TO:

Marco Gamboa / 1 copy. / Wilson & Company

PLEASE RETURN ORIGINALS

TO: **City Of Albuquerque**
Planning Department /Publications
2nd Level (on the west side from the entry area)
600 2nd St. NW Suite 201

CONTACT: Sandy Handley @ 924-3861 or
Joseph Perea @ 924-3895

DOCUMENT: J10/033

RELEASED TO: Rep — MESA REPRO GRAPHICS MIKE MARTIN

DATE: 03-23-07 — 3 23

RETURNED TO: J Mahoon

DATE: 03/26/07

DRAINAGE INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: RUSH ENTERPRISES ZONE ATLAS/DRG. FILE #: J10 / D33

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

LEGAL DESCRIPTION: PORTION OF TRACT 267A & 267B, UNIT 8, TOWN OF ATRISCO GRANT, BERNALILLO

CITY ADDRESS: 6521 HANOVER RD NW

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

ADDRESS: 10205 Snowflake Ct. NW PHONE: (505) 899-5570

CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87114

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ 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)

__X__ 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

__X__ LOMR APPROVAL

WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES

__X__ NO

_____ COPY PROVIDED

RECEIVED
MAR 13 2003
HYDROLOGY SECTION

DATE SUBMITTED: 03 / 13 / 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

ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

March 13, 2003

Mr. Carlos Montoya, PE
City Floodplain Administrator, PWD
Development and Building Services
Plaza Del Sol-2nd Floor West
600 2nd Street NW
Albuquerque, NM 87102

RE: LOMR SUBMITTAL FOR RUSH ENTERPRISES, J10/D33

Dear Mr. Montoya:

This letter is to inform you that the 48" RCP in Hanover Road has been constructed. We also have submitted the as-built grading and drainage plan previously. At this time we are submitting the LOMR package in order to remove the floodplain based on the recent developments and improvements. There was an error on the original elevation of the Flood Zone AH (Elevation 5101). This error was corrected on this submittal. We had shown an elevation of 5100 for this site which is actually the flood elevation of the existing floodplain Zone AH located on the south side of Hanover Road. See attached submittal for the changes. The as-built grading and drainage plan as well as the as-built plan and profile sheet for the 48" RCP extension in Hanover Road has been submitted as part of the LOMR package. The drainage report for Rush Enterprises is also included as part of the LOMR package.

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

Sincerely yours,

Shahab Biazar, P.E.

10205 Snowflake Court N.W., Albuquerque, N.M. 87114 PH (505) 899-5570 FAX (505) 897-4996 EMAIL AECLLC@aol.com

LOMR
FOR
RUSH ENTERPRISES
6521 HANOVER ROAD, NW

Prepared by:

ADVANCED
ENGINEERING
and CONSULTING, LLC

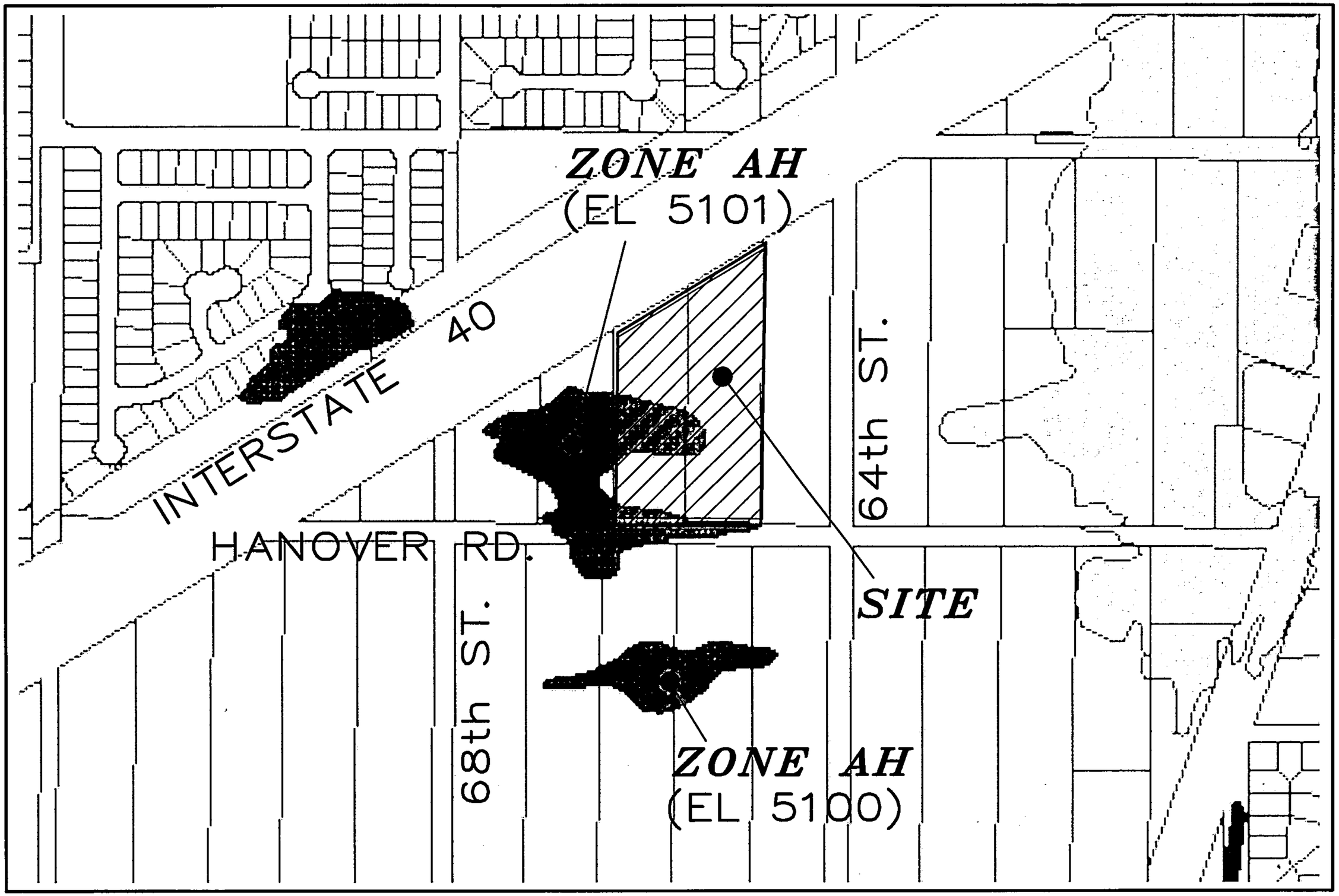
10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

March, 2003

SHAHAB BIAZAR
NEW MEXICO
13479
3/13/2003
REGISTERED PROFESSIONAL ENGINEER

Shahab Biazar
PE NO. 13479

RECEIVED
MAR 13 2003
HYDROLOGY SECTION



FIRM MAP: 1"=±400

35001C0327 D

TABLE OF CONTENTS

FORM 1

REVISION REQUESTER AND COMMUNITY OFFICIAL

FEDERAL EMERGENCY MANAGEMENT AGENCY **REVISION REQUESTER AND COMMUNITY OFFICIAL**	O.M.B No. 3067-0148 Expires April 30, 2001

Public reporting burden for this form is estimated to average 2.13 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

1. REQUESTED RESPONSE FROM FEMA

This request is for a:

☐ CLOMR A letter from FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60,65 & 72).

☒ LOMR A letter from FEMA officially revising the current NFIP map to show the changes to floodplains, floodway or flood elevations. LOMRs typically decrease flood hazards. (See 44 CFR Ch. 1 Parts 60 & 65.)

☐ Other Describe: _____

2. OVERVIEW

1. The basis for this revision request is (are): (check all that apply)

☒ Physical Change ☐ Improved Methodology/Data ☐ Floodway Revision

☐ Other Describe: _____
Note: A photograph is not required, but is very helpful during review.

2. Flooding Source: LARGE DRAINAGE BASIN

3. Project Name/Identifier: RUSH ENTERPRISES

4. FEMA zone designations affected: AH (ELEVATION 5101)
(example: A, AH, AO, A1-A30, A99, AE, V, V1-V30, VE, B, C, D, X)

5. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
Ex: 480301 480287	Katy, City Harris County	TX TX	480301 48201C	0005D 0220G	02/08/83 09/28/90
350001	CITY OF ALBUQUERQUE, BERNALILLO COUNTY	NM	35001C	0327D	09/20/96

6. The area of revision encompasses the following types of flooding and structures. Check all that apply.

Types of Flooding	Structures
☐ Riverine	☐ Channelization
☐ Coastal	☐ Levee/Floodwall
☐ Alluvial fan	☐ Bridge/Culvert
☒ Shallow Flooding (e.g. Zones AO and AH)	☐ Dam
☐ Lakes	☐ Fill
☐ Other (describe)	☒ Other (describe)

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

ADDITIONAL INFORMATION FOR FORM-1

(REVISION REQUESTER AND COMMUNITY OFFICIAL)

1. REQUESTED RESPONSE FORM FEMA

Due to changes of the original contributing basin and extension of the 48" RCP, we are requesting a LOMR in order to remove the floodplain from the map. The floodplain was mainly created by the runoff from the north side of I-40. The runoff from the north side of I-40 in intercepted by the existing retention ponds. And in near future the I-40 diversion channel will intercept all the retention pond the will drain the runoff east along the I-40. The only runoff contributing to the floodplain is the some runoff from the I-40 right-of-way and some runoff from the south side of I-40. Based on the a master plan for West Mesa Diversion Project prepared by Smith Engineering Company, a 48" storm sewer pipe was proposed for Hanover in order to intercept the runoff in the low point the Hanover. This pipe has recently been designed and built under Advanced Engineering and Consulting, LLC supervision and approved by the City of Albuquerque. See Appendix A for Drainage Report and drainage basins and runoff calculations.

2. OVERVIEW

1. Upstream basin (north of I-40) has been intercepted by retention ponds and will be diverted to the east in near future by I-40 Diversion Channel. A 48" RCP is extended to intercept the remaining runoff contributing the floodplain.

6. The site falls within Zone AH (Elevation 5101). The floodplain is intercepted by the newly built 48" RCP. And the site has been raised to drain the runoff from north to south to Hanover Road where the storm sewer pipe is located. See as-built construction plans located in the map pocket.

4. ENCROACHMENT INFORMATION

1. Does the State have jurisdiction over the floodway or its adoption by communities participating in the NFIP?
☐ Yes ☒ No

If Yes, attach a copy of a letter notifying the appropriate State agency of the floodway revision and documentation of the approval of the revised floodway by the appropriate State agency.

2. Does the development in the floodway cause the 1% annual chance (base) elevation to increase at any location by more than 0.000 feet? ☐ Yes ☐ No ☒ N/A

3. Does the cumulative effect of all development that has occurred since the effective SFHA was originally identified cause the base flood elevation to increase at any location by more than one foot (or other increase limit if community or state has adopted more stringent criteria - even if a floodway has not been delineated by FEMA)? ☐ Yes ☒ No

If the answer to either items is Yes, please attach documentation that all requirements of Section 65.12 of the NFIP regulations have been met, regarding evaluation of alternatives, notice to individual legal property owners, concurrence of CEO, and certification that no insurable structures are impacted.

5. MAINTENANCE RESPONSIBILITY

The community is willing to assume responsibility for ☒ performing ☒ overseeing compliance with the maintenance and operation plans of the 48" STORM SEWER PIPE
(Name)
flood control structure. If not performed promptly by an owner other than the community, the community will provide the necessary services without cost to the Federal government.

Operation and maintenance plans are attached. ☐ **Yes** ☐ **No** ☒ **N/A**

6. REVIEW FEE

The review fee for the appropriate request category has been included. ☒ Yes Fee amount: $4,200.00

OR

This request is based on a federally sponsored flood-control project where 50 percent or more of the project's cost is federally sponsored, or the request is based on detailed hydrologic and hydraulic studies conducted by Federal, State, or local agencies to replace approximate studies conducted by FEMA and shown on the effective FIRM; thus the project is fee exempt.
☐ Yes

Please see Instructions for Fee Amounts

7. SIGNATURE

Note: **I understand that my signature indicates that all information submitted in support of this request is correct**

Signature of Revision Requester

SHAHAB BIAZAR, P.E.
Printed Name and Title of Revision Requester

ADVANCED ENGINEERING AND CONSULTING, LLC
Company Name

Telephone No.: (505-899-5570) Date: 03/13/2003

Note: **Signature indicates that the community understands, from the revision requester, the impacts of the revision on flooding conditions in the community.**

Signature of Community Official

Printed Name and Title of Community Official

Community Name

Telephone No.: Date:

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is in accordance with 44 CFR Ch. 1, Sect 65.2

Signature

SHAHAB BIAZAR, P.E.
Printed Name and Title of Revision Requester

Registr No. 13479 Expires (Date) 12/31/2003 State NM

Type of License/Expertise: GENERAL CIVIL

Check which forms have been included with this request

Form Name and (Number)	Required if .....
☒ **Hydrologic** (3)	new or revised discharges
☐ **Hydraulic** (4)	new or revised water-surface elevations
☒ **Mapping** (5)	floodplain/floodway changes
☐ **Channelization** (6)	channel is modified
☐ **Bridge/Culvert** (7)	addition/revision of bridge/culvert
☐ **Levee/Floodwall** (8)	addition/revision of levee/floodwall
☐ **Coastal** (9)	new or revised coastal elevations
☐ **Coastal Structures** (10)	addition/revision of coastal structure
☐ **Dam** (11)	addition/revision of dam
☐ **Alluvial Fan** (12)	structures proposed on alluvial fan

FORM 4

REVERINE HYDRAULIC ANALYSIS

FEDERAL EMERGENCY MANAGEMENT AGENCY **RIVERINE HYDRAULIC ANALYSIS**	O.M.B No. 3067-0148 Expires April 30, 2001

PUBLIC BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 2.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

Note: Fill out one form for each flooding source studied

Community Name: CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

Flooding Source: LARGE DRAINAGE BASIN1

Project Name/Identifier: RUSH ENTERPRISES

1. REACH TO BE REVISED

Describe the limits of the revision OR submit a copy of the FIRM with the revision area clearly highlighted.
Copy of FIRM(s) attached depicting area of the revision (highlighted, or circled)? ☒ Yes

Downstream Limit: SEE ATTACHED EXHIBIT

Upstream Limit: SEE ATTACHED EXHIBIT

2. MODELS SUBMITTED

Requirements: for areas which have detailed flooding:	**for areas which do not have detailed flooding:**
Full input and output listings along with files on diskette for each of the models listed below (items 1-4) and a summary of the source of input parameters used in the models must be provided. The summary must include a description of any changes made from model to model (e.g., Duplicate Effective model to Corrected Effective model). At a minimum, the Duplicate Effective (item 1) and the Revised or Post-Project Conditions (item 4) models must be submitted. See instructions for directions on when other models may be required.	Only the 100-year (Base) flood profile is required. A hydraulic model is not required for areas which do not have detailed flooding; however, BFEs may not be added to the revised FIRM. If a hydraulic model is developed for the area, items 3 and 4 described below must be submitted.

If hydraulic models are not developed, hydraulic analyses (including all calculations) for existing or pre-project conditions and revised or post-project conditions must be submitted.

1. Duplicate Effective Model ☐ **Natural** **File Name** _____ ☐ **Floodway** **File Name** _____
Copies of the hydraulic analysis used in the effective FIS, referred to as the effective models (10-, 50-, 100-, and 500-year multi-profile runs and the floodway run) must be obtained and then reproduced on the requester's equipment to produce the Duplicate Effective model. This is required to assure that the effective models input data has been transferred correctly to the requester's equipment and to assure that the revised data will be integrated into the effective data to provide a continuous FIS model upstream and downstream of the revised reach.

2. Corrected Effective Model ☐ **Natural** **File Name** _____ ☐ **Floodway** **File Name** _____
The Corrected Effective model is the model that corrects any errors that occur in the Duplicate Effective model, adds any additional cross sections to the Duplicate Effective model, or incorporates more detailed topographic information than that used in the currently effective model. The Corrected Effective model must not reflect any man-made physical changes since the date of the effective model. An error could be a technical error in the modeling procedures, or any construction in the floodplain that occurred prior to the date of the effective model but was not incorporated into the effective model.

3. Existing or Pre-Project Conditions Model ☐ **Natural** **File Name** _____ ☐ **Floodway** **File Name** _____
The Duplicate Effective model or Corrective Effective model is modified to produce the Existing or Pre-Project Conditions model to reflect any modifications that have occurred within the floodplain since the date of the Effective model but prior to the construction of the project for which the revision is being requested. If no modification has occurred since the date of the effective model, then this model would be identical to the Corrected Effective model or Duplicate Effective model.

4. Revised or Post-Project Conditions Model ☐ **Natural** **File Name** _____ ☐ **Floodway** **File Name** _____
The Existing or Pre-Project Conditions model (or Duplicate Effective model or Corrected Effective model, as appropriate) is revised to reflect revised or post-project conditions. This model must incorporate any physical changes to the floodplain since the effective model was produced as well as the effects of the project. When the request is for the proposed project this model must reflect proposed conditions.

5. Other – Please attach a sheet describing all other models submitted along with the file names. ☐ **Natural** ☐ **Floodway**

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

3. STARTING WATER-SURFACE ELEVATIONS N/A

Explain how they were determined. Explanation Attached? ☐ Yes ☐ No

NOTE: If the effective study is an approximate study, the slope/area method is recommended. For detailed analysis studies, using a known water-surface elevation is recommended.

4. RESULTS (from the model used to revise the 100-year water surface elevations)

If the results indicate any of the following, attach an explanation - to this form, or to the hydraulic model printout- as to the reasonableness of the situation.

☐ Supercritical depth ☐ Critical Depth ☐ Drawdowns ☐ Negative Floodway Surcharges

☐ Floodway Surcharges Greater Than Maximum Allowed by Community/State

☐ Water surface elevations higher than the end points of cross sections.

☐ Floodway discharge is different than the Natural 100-year (base) flood discharge.

☐ Project causes 100-year floodplain or floodway elevations to increase (state if increases are located off the requester's property)

Explanation attached with Form ☐ **Explanation provided on attached printout** ☐

If Hydraulic model used is HEC-2, has it been checked with FEMA'S CHECK-2 computer program? ☐ **Yes** ☐ **No**
(see instructions for information on how to obtain CHECK-2)

5. REVISED FIRM/FBFM AND FLOOD PROFILES

1. Profile Transition N/A

a. 100-Year Water-Surface Elevations - indicate the difference in water surface elevations where the project 100-year elevations tie into the existing 100-year water surface elevations at each end of the project.

Downstream End _____ within _____ (feet) Upstream End _____ within _____ (feet)
Cross-Section # *Cross-Section #*

b. Floodway Elevations - indicate the difference in water surface elevations where the project floodway elevations tie into the existing floodway water surface elevations at each end of the project.

Downstream End _____ within _____ (feet) Upstream End _____ within _____ (feet)
Cross-Section # *Cross-Section #*

c. Floodway widths - indicate the difference in floodway widths where the project floodway widths tie into the existing floodway width at each end of the project.

Downstream End _____ within _____ (feet) Upstream End _____ within _____ (feet)
Cross-Section # *Cross-Section #*

2. Profile Checklist (check box if information has been provided on profile) N/A

The following information (unless in parentheses) must be included at the same scale as the existing profiles for this project:

☐ Stream Name ☐ Community Name ☐ Corporate Limits labeled ☐ Study limits labeled

☐ Confluences labeled ☐ Channel Stationing ☐ Streambed profiled ☐ Cross Sections labeled

☐ Horizontal/Vertical Scales indicated ☐ 100-year elevs profiled*

☐ Road Crossings ☐ Labeled ☐ Low Chord Elevations ☐ Top of Road Elevations

*All recurrence intervals in the effective study must also be profiled.

Floodway Data Table

Attach a Floodway Data Table for each cross section listed in the published Floodway Data table in the FIS report.

Floodway Data Table Attached ☐ **Yes** ☐ **Not Required**

ADDITIONAL INFORMATION FOR FORM-4

(REVERINE HYDRAULIC ANALYSIS)

1. REACH TO BE REVISED

Exhibit showing the modification to the existing floodplain are attached.

2. MODELS SUBMITTED

New drainage calculations and revised contributing basin is shown in the Drainage Report. See Appendix A (Drainage Report) of this submittal for the drainage basin exhibits as well as runoff calculations.

4. RESULTS

The revised basin show that the runoff generated is not substantial and the inlets and storm sewer in Hanover are adequately size to intercept the runoff of this magnitude and larger. The project has caused the runoff to drain to the newly constructed 48" RCP in Hanover Road. Therefore, we have eliminated the floodplain.

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 327 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

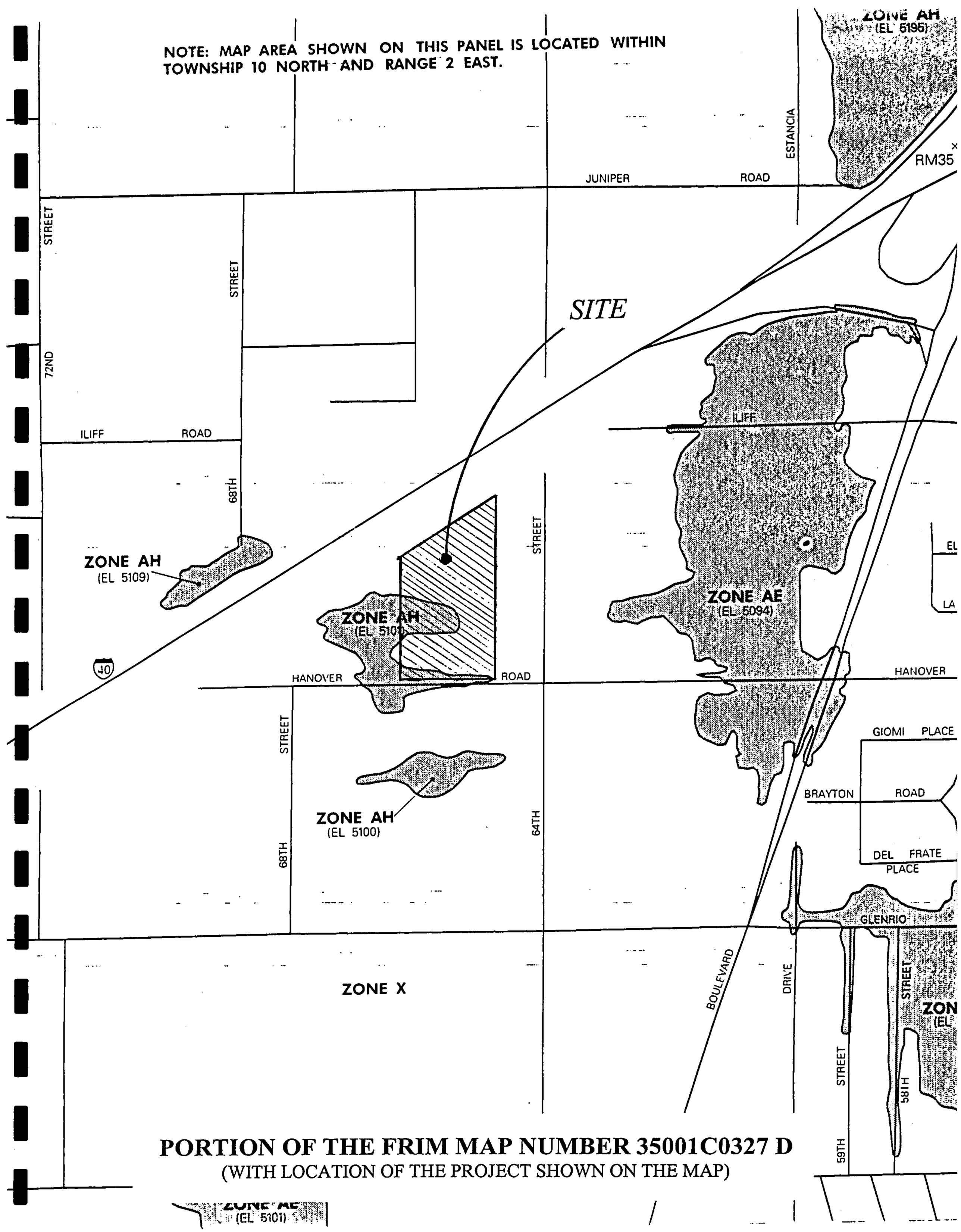
COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0327	D
BERNALILLO COUNTY, UNINCORPORATED AREAS	350001	0327	D

MAP NUMBER
35001C0327 D

EFFECTIVE DATE:
SEPTEMBER 20, 1996

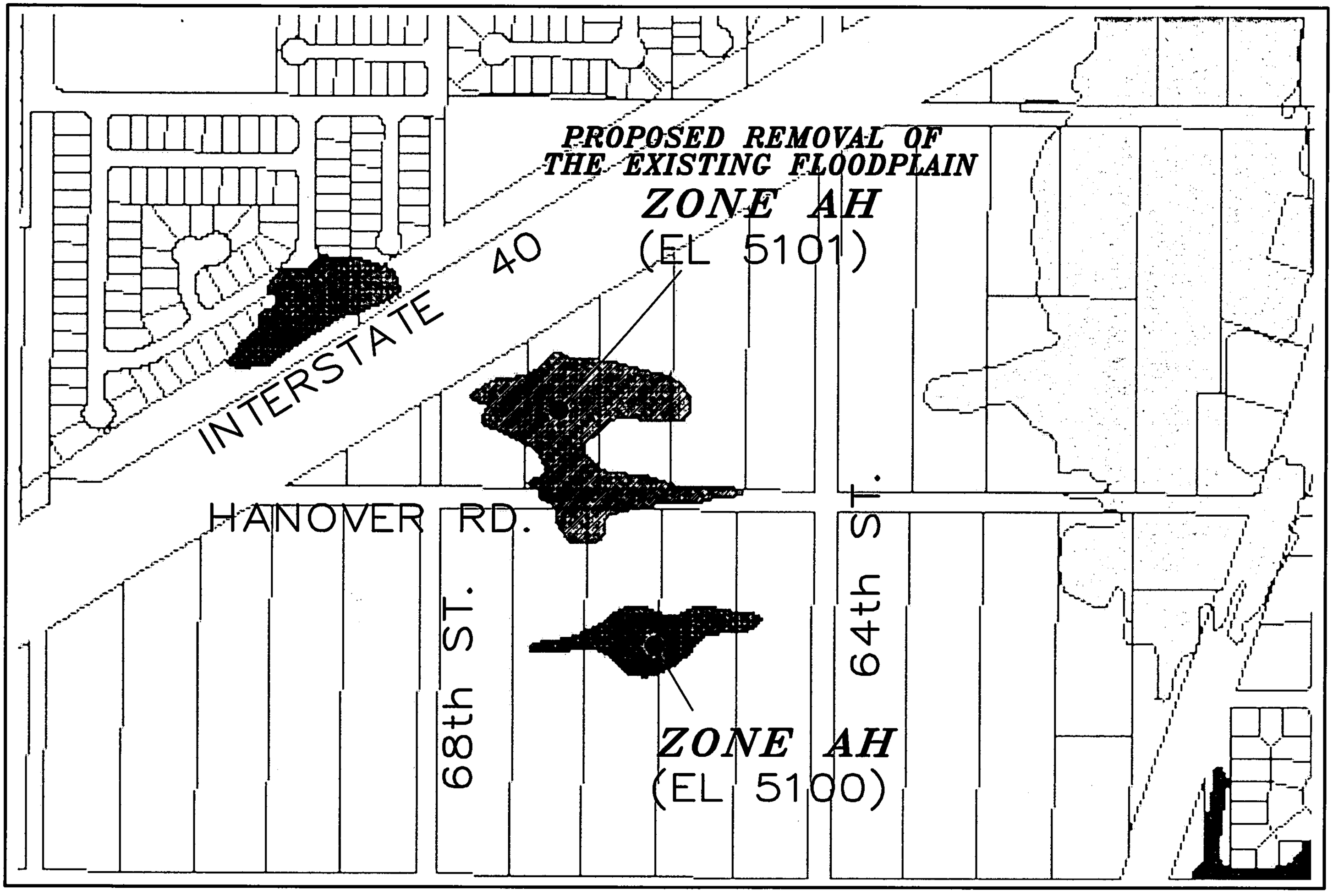
Federal Emergency Management Agency

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 10 NORTH AND RANGE 2 EAST.



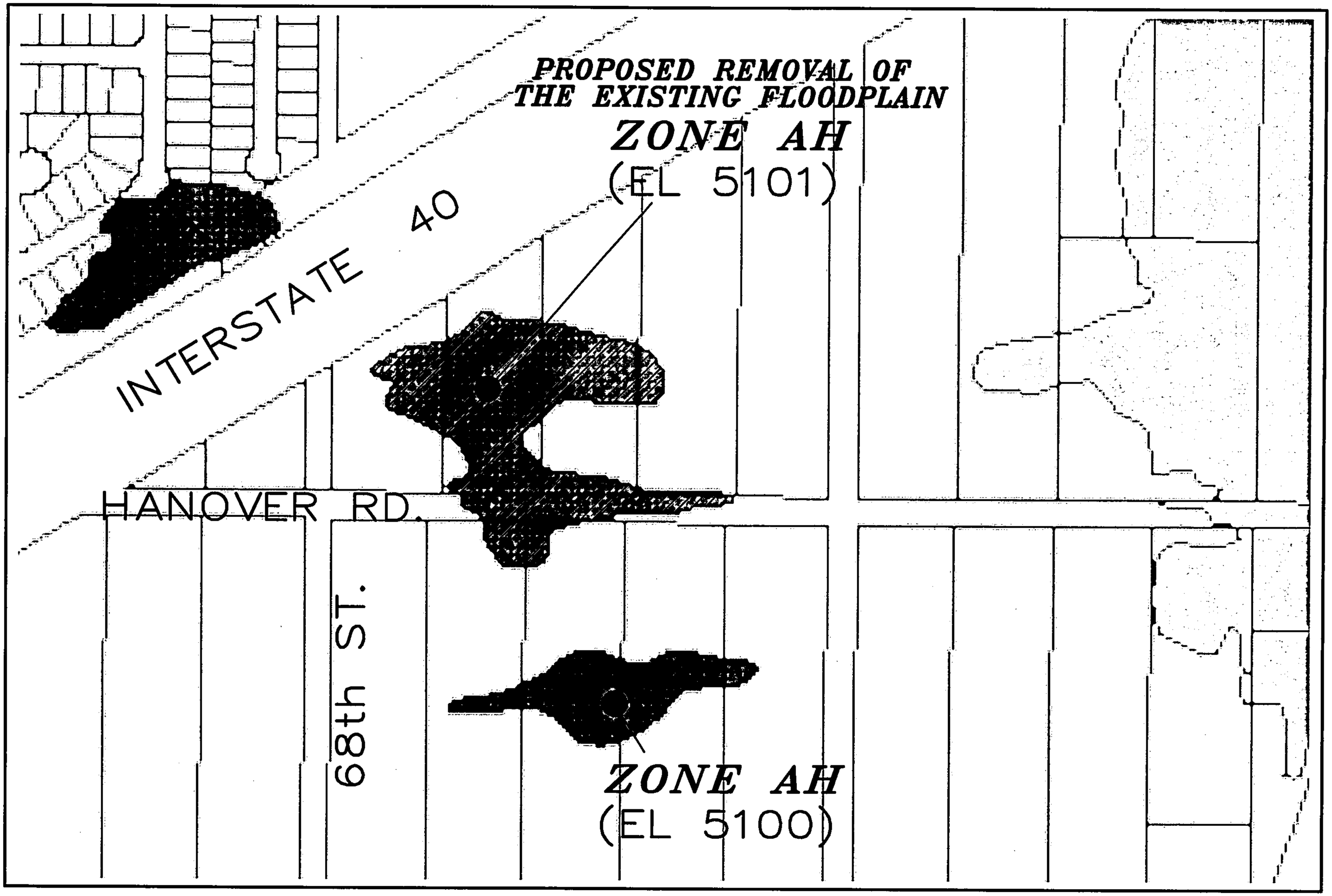
PORTION OF THE FRIM MAP NUMBER 35001C0327 D

(WITH LOCATION OF THE PROJECT SHOWN ON THE MAP)



FLOODPLAIN REMOVAL EXHIBIT

1"=±400



FLOODPLAIN REMOVAL EXHIBIT

1"=±300

PAYMENT INFORMATION SHEET

FEDERAL EMERGENCY MANAGEMENT AGENCY

PAYMENT INFORMATION FORM

Community Name: CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

Project Identifier: RUSH ENTERPRISES

THIS FORM MUST BE MAILED, ALONG WITH THE APPROPRIATE FEE, TO ONE OF TWO POST OFFICE BOXES (SEE BELOW) OR FAXED TO THE FAX NUMBER BELOW.

Type of Request:

MT-1 application fee
MT-2 application fee } (Insert **3173** as the P.O. Box number in the address below)

External Data Requests (EDRs) (Insert **398** as the P.O. Box number in the address below)

Federal Emergency Management Agency
Revisions Fee-Collection System Administrator
P.O. Box 3173
Merrifield, Virginia 22116
Fax: (703) 849-0282

Request No.: (if known)

Amount: $4,200.00

☐ INITIAL FEE* ☐ FINAL FEE ☐ FEE BALANCE** ☐ MASTER CARD ☐ VISA ☒ CHECK ☐ MONEY ORDER

*Note: Check only for EDR and/or Alluvial Fan requests (as appropriate).

**Note: Check only if submitting a corrected fee for an ongoing request.

COMPLETE THIS SECTION ONLY IF PAYING BY CREDIT CARD

EXP. DATE

1 2 3 4 — 5 6 7 8 — 9 10 11 12 — 13 14 15 16 — Month Year

CARD NUMBER

Date _____ Signature

NAME *(AS IT APPEARS ON CARD)*:
(please print or type)

ADDRESS:
(*for your credit card receipt-please print or type*)

DAYTIME PHONE:

CURRENT FEE SCHEDULE FOR MITIGATION PRODUCTS AND SERVICES (effective as of September 1, 2002).

Requests for Single Lot, Single Structure Map Change	Fee	Comment
Single lot, single structure LOMA	**Free**	**N/A**
Single lot, single structure CLOMA and CLOMR-F	**$500**	**Flat Fee**
Single lot, single structure LOMR-F	**$425**	**Flat Fee**
Single lot, single structure LOMR-F based on as-built information (CLOMR-F previously issued by FEMA)	**$325**	**Flat Fee**

Requests for Multiple Lot, Multiple Structure Map Change	Fee	Comment
Multi-lot, multi-structure LOMA	**Free**	**N/A**
CLOMA	**$700**	**Flat Fee**
CLOMR-F and LOMR-F	**$800**	**Flat Fee**
LOMR-F based on as-built information (CLOMR-F previously issued by FEMA)	**$700**	**Flat Fee**

Requests for Map Change Requiring Special Technical Review	Fee	Comment
CLOMR based on new hydrology, bridge, culvert, channel or combination thereof	**$4,000**	**Flat Fee**
CLOMR based on levee, berm, or other structural measures	**$4,500**	**Flat Fee**
LOMR/PMR based on bridge, culvert, channel or combination	**$4,200**	**Flat Fee**
LOMR/PMR based on levee, berm, or other structural measures	**$6,000**	**Flat Fee**
LOMR based on as-built information (CLOMR previously issued by FEMA)	**$3,800**	**Flat Fee**
LOMR/PMR based solely on submission of more detailed data	**Free**	**N/A**
LOMR/CLOMR based on structural measures on alluvial fans	**$5,000**	**Initial fee plus $50 per hour. Requester will be invoiced for remaining balance**

Payment must be received before services will be rendered. Check, money orders, and credit cards are accepted.

APPENDIX A

DRAINAGE REPORT

DRAINAGE REPORT
FOR

RUSH ENTERPRISES

PORTION OF TRACT 267 & 268, UNIT 8, TOWN OF ATRISCO GRANT, BERNALILLO

Prepared by:

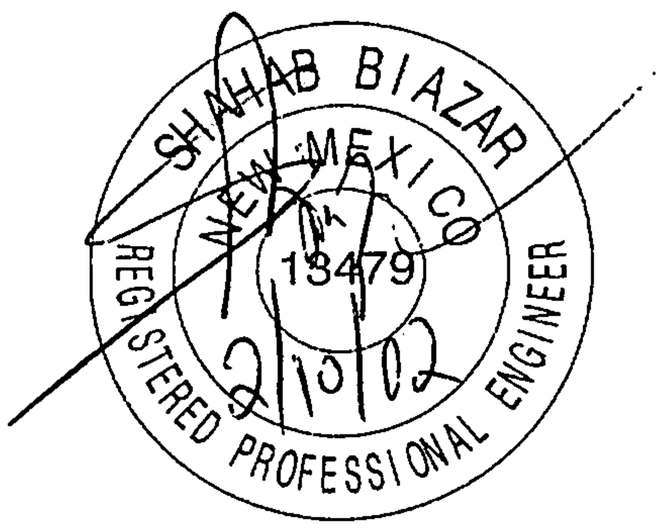
ADVANCED
ENGINEERING
and CONSULTING, LLC

10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

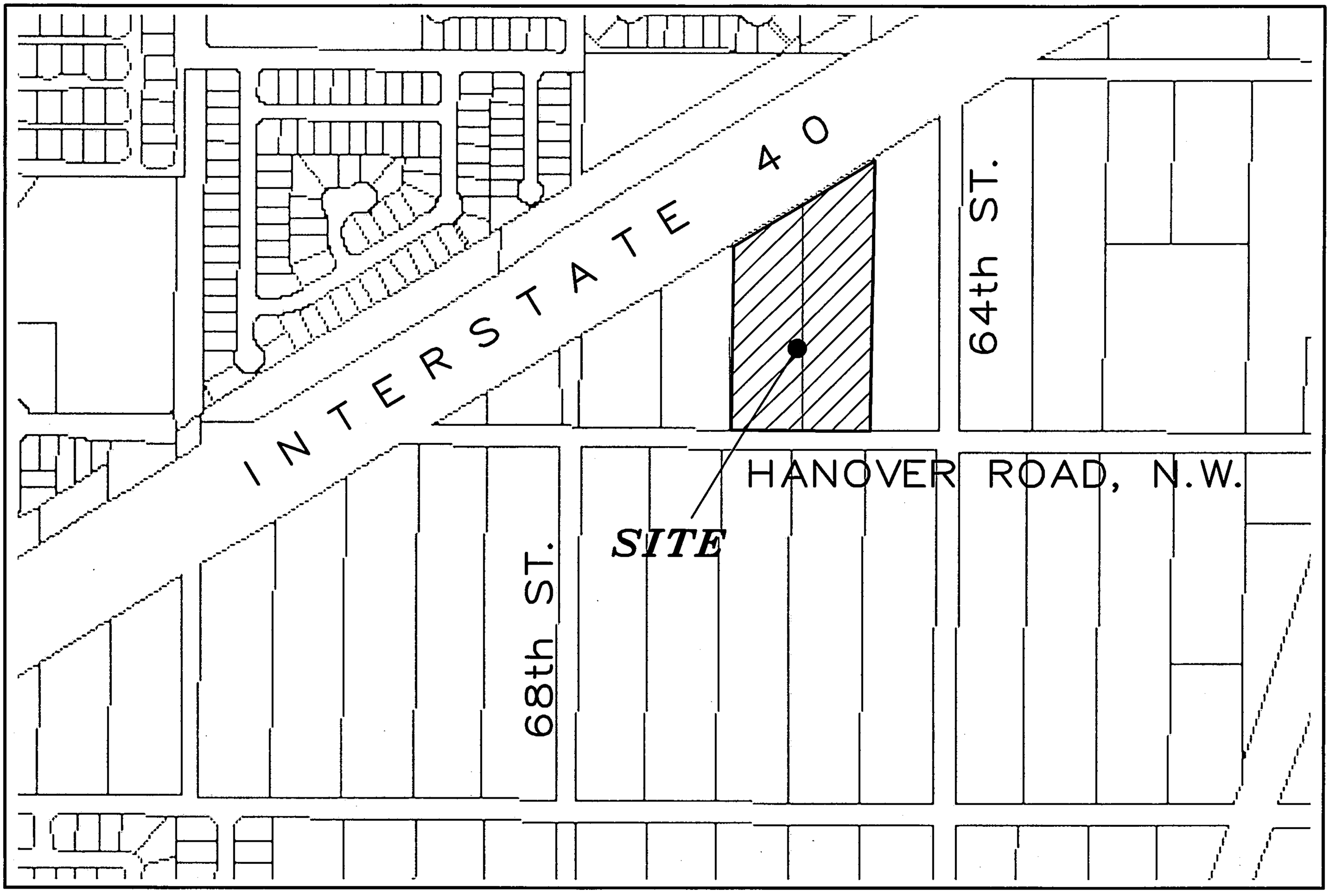
Prepared For:

Ed Donahue
Rush Peterbilt Truck Center
2900 Vassar Dr. NE
Albuquerque, NM 87107

February, 2002



Shahab Biazar
PE NO. 13479



VICINITY MAP:

J–10–Z

Location

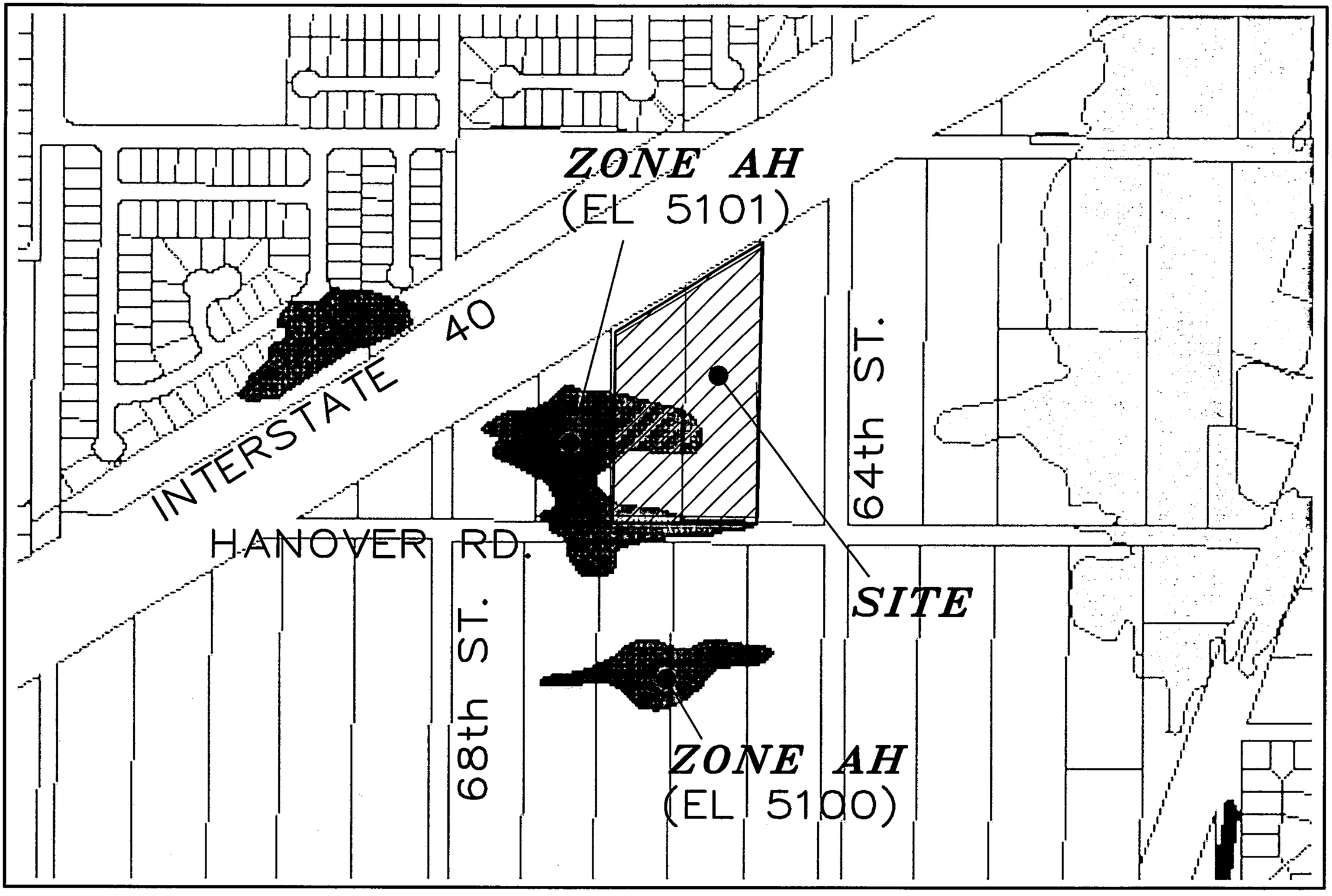
The proposed site is Portions of Tract 267 & 268, Unit 8, Town of Atrisco Grant, Bernalillo County, Containing ±6.2522 Acres, is located north side of Hanover Road and east side of 64th Street. See attached vicinity map for exact location of the site.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the proposed site. We are requesting rough grading approval, site development plan for subdivision purposes, site development plan for building permit, final plat approval and building permit approval.

Existing Drainage Conditions

The site drains to a low point on site. There is an offsite runoff of 20 cfs from the Interstate 40's median that drains to adjacent offsite basin through the 6'x3' culvert crossing ±550' west of our site. The 20 cfs from the 6'x3' culvert drains to the adjacent site and then east towards our project. Since there are existing retention ponds on the north side of the I-40, and the inverts of the culvert crossing are much higher than top of the ponds, no other runoff crosses I-40 to the south near our site. Since historically there has been a significant runoff draining to the low point within and near our site the site has been determined as a floodplain Zone AH (elevation 5101). See attached FIRM Map 35001C0327 D for the location of the site and the floodplain limits.



FIRM MAP: 1"=±400

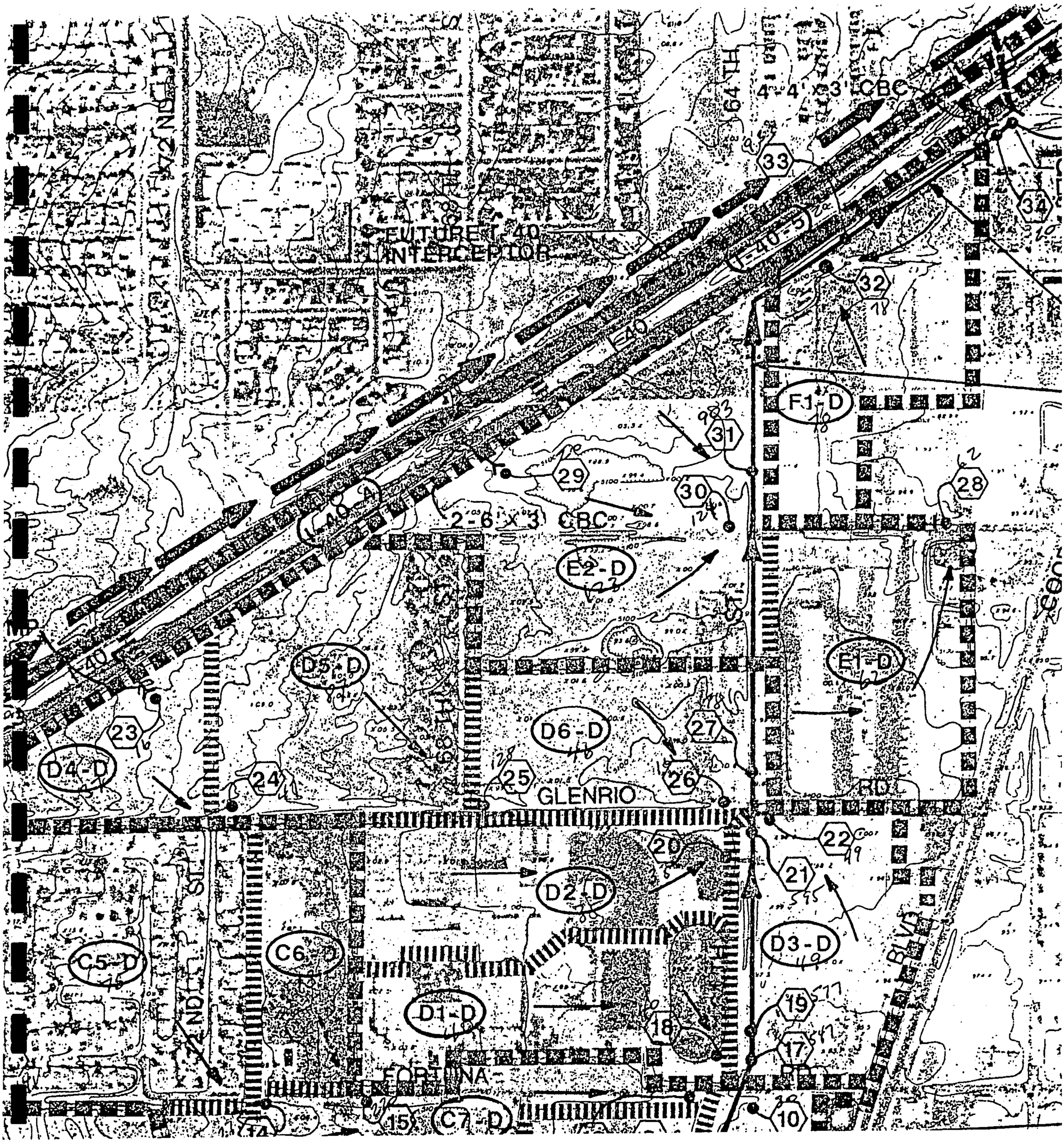
35001C0327 D

Proposed Conditions and On-Site Drainage Management Plan

Overall

The site falls within "West Mesa Diversion Project Drainage Analysis". Smith Engineering has prepared overall drainage basin maps for developed conditions. The site falls within Basin E2-D. A portion of this map is attached. AMAFCA is getting ready to send out the construction plans for the I-40 diversion channel which has been prepared by Wilson and Company. The construction of the I-40 diversion channel will divert all of the runoff which drains to south side of the freeway. Since there are existing retention ponds on the north side of the I-40 and these ponds are much lower than the culvert crossing inverts and intercept all the offsite runoff which historically used to contribute to the offsite runoff, the timing of the I-40 diversion channel will not impact our project and removal of the flood plain after all the storm sewer improvement on Hanover Road.

Smith Engineering Basin map under developed conditions reflects all the future drainage improvements. Under the West Mesa Diversion Project a 108" RCP has been built in 64th Street. As proposed under the master drainage plan, a 48" RCP will be extended west on Hanover Road for approximately 600' to the low point of the street to intercept the runoff and to eliminate the floodplain, Under the proposed conditions the 48" pipe will carry ±124 cfs east to the existing 108" RCP. A series inlets will be place at the west end of the 48" RCP to intercept the runoff in the low point of the street. A LOMR will be submitted to FEMA once the storm sewer pipe is in place to remove the floodplain from the site.



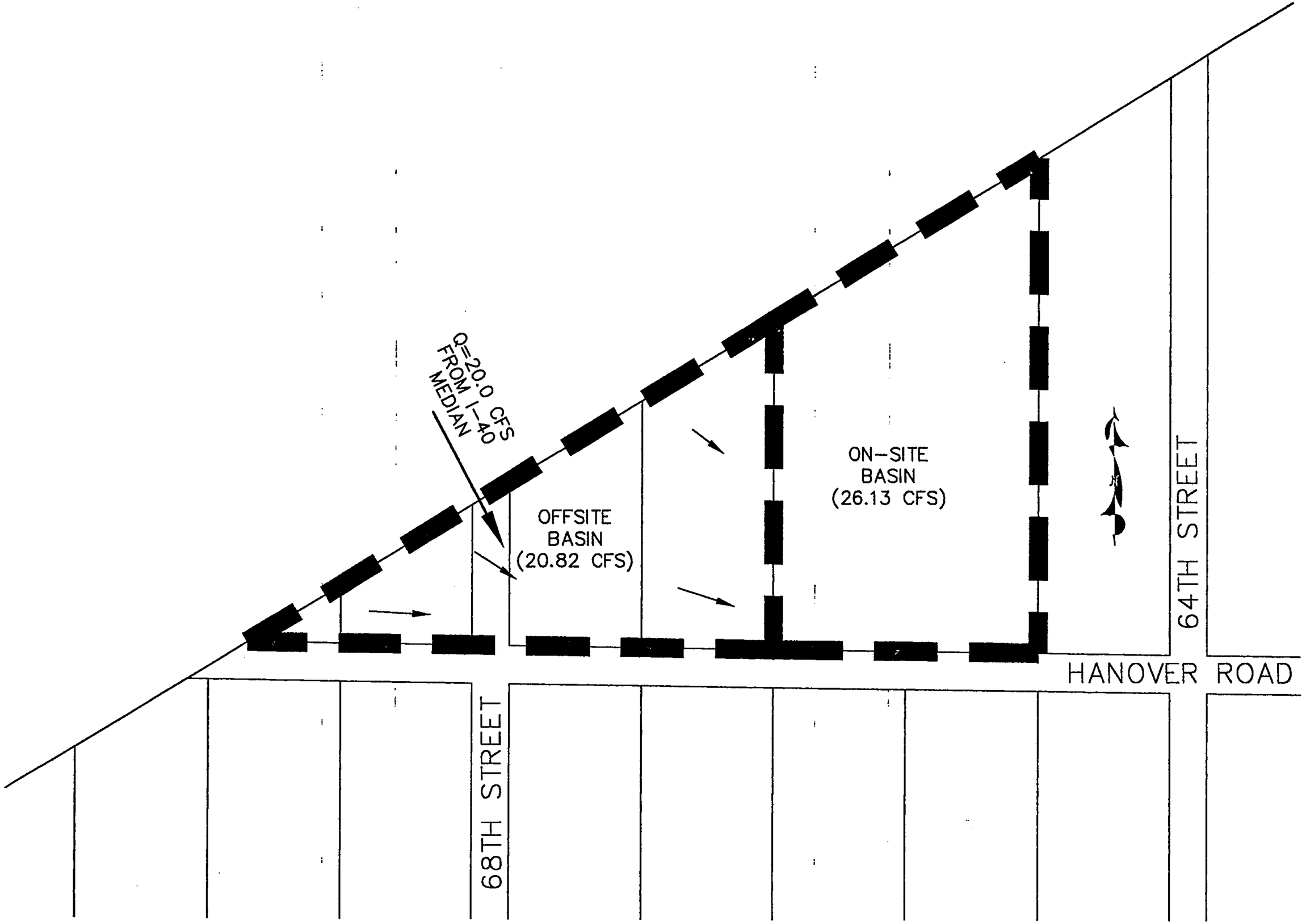
PORTION OF "DRAINAGE AREA MAP"
UNDER THE DEVELOPED CONDITIONS
FOR WEST MESA DIVERSION PROJECT
PREPARED BY SMITH ENGINEERING COMPANY

On-site

The 20 cfs from the 6'x3' along with the offsite basin located to the west will continue to drain east toward our site at total developed runoff of 40.82 cfs. We will divert this runoff to the south to a 30" RCP and then to the proposed 48" RCP in Hanover. On site runoff will drain to a series of inlets on site and then diverted to the proposed 48" RCP in Hanover.

Calculations

City of Albuquerque, Development Process Manuel, Section 22.2, Hydrology Section, revised January, 1993, was used for runoff calculations.


Q=20.0 CFS
FROM I-40
MEDIAN
OFFSITE
BASIN
(20.82 CFS)
ON-SITE
BASIN
(26.13 CFS)
64TH STREET
HANOVER ROAD
68TH STREET

BASIN MAP

RUNOFF CALCULATION RESULTS

BASIN AREA

ON-SITE	AREA (SF)	AREA (AC)	AREA (MI^2)
OFFSITE	217,023.39	4.9822	0.007785
ON-SITE	272,349.14	6.2523	0.009769

EXISTING

ON-SITE	Q-100 CFS	Q-10 CFS
OFFSITE	6.47	1.23
ON-SITE	8.11	1.54

PROPOSED

ON-SITE	Q-100 CFS	Q-10 CFS
OFFSITE	20.82	13.52
ON-SITE	26.13	16.96

AHYMO INPUT FILE

```
*
* ZONE 1
*
**************************************************************
*        100-YEAR,  6-HR STORM (UNDER EXISTING CONDITIONS)     *
**************************************************************
*
START                   TIME=0.0
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                        RAIN DAY=2.66 IN DT=0.03333 HR

* OFFSTIE
COMPUTE NM HYD          ID=1 HYD NO=101.0 AREA=0.007785 SQ MI
                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1

* ON-STIE
COMPUTE NM HYD          ID=1 HYD NO=102.0 AREA=0.009769 SQ MI
                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1
*
**************************************************************
*        100-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)     *
**************************************************************
*
START                   TIME=0.0
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                        RAIN DAY=2.66 IN DT=0.03333 HR

* OFFSTIE
COMPUTE NM HYD          ID=1 HYD NO=103.0 AREA=0.007785 SQ MI
                        PER A=0.00 PER B=5.00 PER C=5.00 PER D=90.00
                        TP=0.1333 HR MASS RAINFALL=-1

* ON-STIE
COMPUTE NM HYD          ID=1 HYD NO=104.0 AREA=0.009769 SQ MI
                        PER A=0.00 PER B=5.00 PER C=5.00 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=1.25 IN RAIN SIX=1.47 IN
                        RAIN DAY=1.77 IN DT=0.03333 HR

* OFFSTIE
COMPUTE NM HYD          ID=1 HYD NO=111.0 AREA=0.007785 SQ MI
                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1

* ON-STIE
COMPUTE NM HYD          ID=1 HYD NO=112.0 AREA=0.009769 SQ MI
                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1
*
**************************************************************
*         10-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)     *
**************************************************************
START                   TIME=0.0
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.25 IN RAIN SIX=1.47 IN
                        RAIN DAY=1.77 IN DT=0.03333 HR

* OFFSTIE
COMPUTE NM HYD          ID=1 HYD NO=113.0 AREA=0.007785 SQ MI
                        PER A=0.00 PER B=5.00 PER C=5.00 PER D=90.00
                        TP=0.1333 HR MASS RAINFALL=-1

* ON-STIE
COMPUTE NM HYD          ID=1 HYD NO=114.0 AREA=0.009769 SQ MI
                        PER A=0.00 PER B=5.00 PER C=5.00 PER D=90.00
                        TP=0.1333 HR MASS RAINFALL=-1
**************************************************************
*
FINISH
```

SUMMARY OUTPUT FILE

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02d RUN DATE (MON/DAY/YR) =02/21/2002
INPUT FILE = 200133B USER NO.= AHYMO-I-9702c01000R31-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION	
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	2.200
COMPUTE NM HYD	101.00	-	1	.00779	6.47	.182	.43925	1.533	1.298	PER IMP=	.00
COMPUTE NM HYD	102.00	-	1	.00977	8.11	.229	.43925	1.533	1.298	PER IMP=	.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	2.200
COMPUTE NM HYD	103.00	-	1	.00779	20.82	.768	1.85050	1.500	4.179	PER IMP=	90.00
COMPUTE NM HYD	104.00	-	1	.00977	26.13	.964	1.85050	1.500	4.179	PER IMP=	90.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	1.470
COMPUTE NM HYD	111.00	-	1	.00779	1.23	.034	.08264	1.533	.246	PER IMP=	.00
COMPUTE NM HYD	112.00	-	1	.00977	1.54	.043	.08264	1.533	.246	PER IMP=	.00
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	1.470
COMPUTE NM HYD	113.00	-	1	.00779	13.52	.476	1.14585	1.500	2.713	PER IMP=	90.00
COMPUTE NM HYD	114.00	-	1	.00977	16.96	.597	1.14585	1.500	2.713	PER IMP=	90.00
FINISH											

STORM DRAIN INLET

SINGLE 'D':

Area at the grate:

L = 38.375" - 7 (1/2" middle bars)
= 34.875"
= 2.906'

W = 25.5" - 13 (1/2" middle bars)
= 19"
= 1.583'

Area = 1.583 x 2.906
= 4.601 ft^2

Flow Capacity:

$Q = CA \sqrt{(2gh)}$

$Q = 0.60 \times 4.601 \sqrt{(2 \times 32.2 \times 1.00)}$

Q = 22.15 cfs, OK maximum flow contributed to any of the inlets on site is 10 cfs.

STORM DROP INLET
Double 'A'

Area at the grate:

L = 88 ¾" - 2(6"$_{ends}$) - 6"$_{center\ piece}$ - 14(½ $_{middle\ bars}$)
= 63 ¾"
= 5.3125'

W = 25 ½" - 13(½"$_{middle\ bars}$)
= 19"
= 1.5833'

Area = 5.3125' x 1.5833'
= 8.41 ft^2

Effective Area = 8.41- 8.41 (0.5 $_{clogging\ factor}$)
= 4.21 ft^2 at the grate

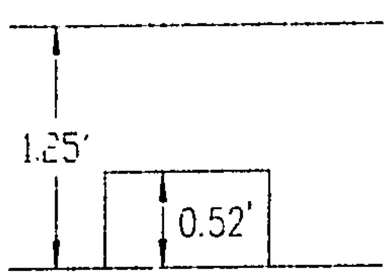
Area at the throat:

L = 13.50"

H = 10 ¾" - 4 ½"
= 6 ¼"
= 0.5208'

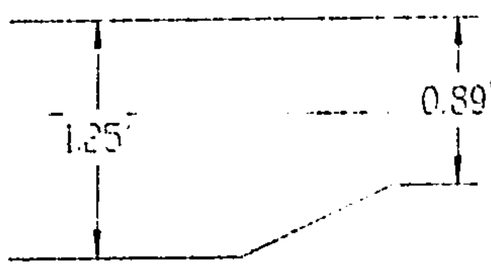
Area = 13.50' x 0.5208'
= 7.03 ft^2 at the throat

THROAT



H=1.25
$Q=CA\sqrt{2gH}$
$Q=0.60(7.03)\sqrt{2(32.2)(1.25)}$
Q=37.84 CFS

GRATE



H=(1.25+0.89)/2=1.08
$Q=CA\sqrt{2gH}$
$Q=0.60(4.21)\sqrt{2(32.2)(1.08)}$
Q=21.07 CFS

TOTAL

Q=21.07+37.84=58.91 CFS

Number Of Inlets Required:

Total Q=124 cfs - 26.13 cfs (intercepted by storm sewer pipe on-site) = 97.87 cfs

# of inlets = 97.87/58.91 = 1.66 ∴ **Use 2 Inlets**

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 20133-30

Comment: 30" PIPE FLOW CAPACITY

Solve For Full Flow Capacity

Given Input Data:

Diameter.....	2.50 ft
Slope.....	0.0200 ft/ft
Manning's n.....	0.012
Discharge.....	62.84 cfs

Computed Results:

Full Flow Capacity.....	62.84 cfs
Full Flow Depth.....	2.50 ft
Velocity.....	12.80 fps
Flow Area.....	4.91 sf
Critical Depth.....	2.41 ft
Critical Slope.....	0.0175 ft/ft
Percent Full.....	100.00 %
Full Capacity.....	62.84 cfs
QMAX @.94D.....	67.60 cfs
Froude Number.....	FULL

Open Channel Flow Module, Version 3.12 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, C

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 20133-48

Comment: 48" PIPE FLOW CAPACITY

Solve For Full Flow Capacity

Given Input Data:

Diameter.....	4.00 ft
Slope.....	0.0070 ft/ft
Manning's n.....	0.012
Discharge.....	130.20 cfs

Computed Results:

Full Flow Capacity.....	130.20 cfs
Full Flow Depth.....	4.00 ft
Velocity.....	10.36 fps
Flow Area.....	12.57 sf
Critical Depth.....	3.41 ft
Critical Slope.....	0.0066 ft/ft
Percent Full.....	100.00 %
Full Capacity.....	130.20 cfs
QMAX @.94D.....	140.05 cfs
Froude Number.....	FULL

Open Channel Flow Module, Version 3.12 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, Ct 06708

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 20133-18-1.5

Comment: 18" PIPE FLOW CAPACITY

Solve For Full Flow Capacity

Given Input Data:

Diameter.....	1.50 ft
Slope.....	0.0150 ft/ft
Manning's n.....	0.012
Discharge.....	13.94 cfs

Computed Results:

Full Flow Capacity.....	13.94 cfs
Full Flow Depth.....	1.50 ft
Velocity.....	7.89 fps
Flow Area.....	1.77 sf
Critical Depth.....	1.38 ft
Critical Slope.....	0.0130 ft/ft
Percent Full.....	100.00 %
Full Capacity.....	13.94 cfs
QMAX @.94D.....	14.99 cfs
Froude Number.....	FULL

Open Channel Flow Module, Version 3.12 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, Ct 06708

Circular Channel Analysis-& Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 20133-18-1

Comment: 18" PIPE FLOW CAPACITY

Solve For Full Flow Capacity

Given Input Data:

Diameter.....	1.50 ft
Slope.....	0.0100 ft/ft
Manning's n.....	0.012
Discharge.....	11.38 cfs

Computed Results:

Full Flow Capacity.....	11.38 cfs
Full Flow Depth.....	1.50 ft
Velocity.....	6.44 fps
Flow Area.....	1.77 sf
Critical Depth.....	1.29 ft
Critical Slope.....	0.0093 ft/ft
Percent Full.....	100.00 %
Full Capacity.....	11.38 cfs
QMAX @.94D.....	12.24 cfs
Froude Number.....	FULL

Open Channel Flow Module, Version 3.12 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, Ct 06708

MAP POCKET

AS-BUILT DRAWINGS:

Grading and Drainage Plan For Rush Enterprises

Hanover Road NW / Storm Sewer Improvements
(Extension of the 48" RCP)

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 25, 2003

Shahab Biazar
10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

RE: Drainage Plan for RUSH ENTERPRISE LOMR (J10-D33) Dated March 13, 2003

Dear Mr. Biazar:

I have reviewed the referenced LOMR and forward the following comments.

1. Please indicate on a FIRM the amount of floodplain that is going to be removed.
2. Please submit two copies of your next submittal and include the FEMA fee.

If you have any questions please call me at 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

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

February 12, 2003

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

RE: RUSH ENTERPRISES (J-10/D33)
(6521 Hanover Rd NW)
ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY
ENGINEERS STAMP DATED 7/11/2002
ENGINEERS CERTIFICATION DATED 2/10/2003

Dear Shahab:

Based upon the information provided in your Engineers Certification submittal dated 2/11/2003, 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. Services Division

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

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

DRAINAGE INFORMATION SHEET

(REV. 11/01/2001)

PROJECT TITLE: RUSH ENTERPRISES ZONE ATLAS/DRG. FILE #: J10 / D33

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

LEGAL DESCRIPTION: PORTION OF TRACT 267 & 268, UNIT 8, TOWN OF ATRISCO GRANT, BERNALILLO

CITY ADDRESS: 6521 HANOVER RD NW

ENGINEERING FIRM: *Advanced Engineering and Consulting, LLC* CONTACT: Shahab Biazar
ADDRESS: 10205 Snowflake Ct. NW PHONE: (505) 899-5570
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87114

OWNER: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
_____ DRAINAGE PLAN
_____ CONCEPTUAL GRADING & DRAINAGE PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
__X__ 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.)
__X__ CERTIFICATE OF OCCUPANCY (TEMP.)
_____ GRADING PERMIT APPROVAL
_____ PAVING PERMIT APPROVAL
_____ WORK ORDER APPROVAL
_____ OTHER (SPECIFY)

RECEIVED
FEB 1 1 2003
CITY DESIGN REVIEW

WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES
__X__ NO
_____ COPY PROVIDED

DATE SUBMITTED: 02 / 11/ 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

ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

February 10, 2003

Mr. Carlos Montoya, P.E.
Development and Building Services
Plaza Del Sol-2nd Floor West
600 2nd Street NW
Albuquerque, NM 87102

RE: Certification of Grading Plan for RUSH ENTERPRISES, Located at 6521 Hanover Road (J10 / D33)

Dear Mr. Montoya:

Enclosed please find one copy of the as-built Grading Plan for the above mentioned site. The grades are built according to the approved grading & drainage plan with engineering stamp date of 7/11/2002. The truck display ramp was built on the northeast corner of the site. The as-built for the Hanover are submitted as well. A LOMR will be submitted at a later date for your review and approval and submittal to FEMA.

Should you have any questions, please do not hesitate to contact our office.

RECEIVED
FEB 11 2003

Sincerely,

Shahab Biazar, P.E.

10205 Snowflake Court N.W., Albuquerque, N.M. 87114 PH (505) 899-5570 FAX (505) 897-4996 EMAIL AECLLC@aol.com

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 14, 2003

(TRANSPORTATION C.O. RELEASE!)

Shahab Biazar
10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

6251 HANOUM RD NW

RE: Traffic Circulation Layout Plan Certification For RUSH ENTERPRISE (J10-D33)
Dated February 10, 2003

Dear Mr. Biazar:

The above referenced TCL Certification is approved for the release of the Certificate of Occupancy.

If you have any questions please call me at 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

DRAINAGE INFORMATION SHEET

(REV. 11/01/2001)

PROJECT TITLE: RUSH ENTERPRISES ZONE ATLAS/DRG. FILE #: J10 / D33

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

LEGAL DESCRIPTION: PORTION OF TRACT 267 & 268, UNIT 8, TOWN OF ATRISCO GRANT, BERNALILLO

CITY ADDRESS: 6521 HANOVER RD NW

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

ADDRESS: 10205 Snowflake Ct. NW PHONE: (505) 899-5570

CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87114

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

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)

__X__ 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

__X__ CERTIFICATE OF OCCUPANCY (PERM.)

_____ CERTIFICATE OF OCCUPANCY (TEMP.)

_____ GRADING PERMIT APPROVAL

_____ PAVING PERMIT APPROVAL

_____ WORK ORDER APPROVAL

_____ OTHER (SPECIFY)

RECEIVED
FEB 11 2003
DESIGN REVIEW

WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES

__X__ NO

_____ COPY PROVIDED

DATE SUBMITTED: 02 / 11/ 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

ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

February 10, 2003

Mr. Nilo Salgado, P.E.
City Transportation Department
600 Second Street NW
Albuquerque, New Mexico 87102

Re: Certification of Site Plan for RUSH ENTERPRISES, Located at 6521 Hanover Road (J10 / D33)

Dear Mr. Salgado:

Enclosed please find copy of the as-built Site Plan for the above mentioned site. The project was inspected by Advanced Engineering and Consulting, LLC on February 10, 2003. All the parking spaces including the handicap parking are built. All the dimensions and radiuses are built as per plan. I certify that the project was built in substantial compliance to the site plan with engineering stamp dated 5/15/02. Minor changes were done. See attached markup site plan for changes.

Should you have any questions, please do not hesitate to contact our office.

Sincerely,

Shahab Biazar, P.E.

RECEIVED
FEB 11 2003
PLANNING REVIEW

10205 Snowflake Court N.W., Albuquerque, N.M. 87114 PH (505) 899-5570 FAX (505) 897-4996 EMAIL AECLLC@aol.com

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 16, 2002

Shahab Biazar, P.E.
Advanced Engineering and Consulting
10205 Snowflake Ct NQ
Albuquerque, New Mexico 87114

RE: RUSH ENTERPRISES GRADING AND DRAINAGE PLAN (J-10/D33)
ENGINEERS STAMP DATED 7/11/2002
SUBMITTED FOR BUILDING PERMIT APPROVAL

Dear Mr. Biazar:

Based upon the information provided in your July 16, 2002 submittal, the above referenced project is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to signoff by Hydrology.

As a reminder, the present floodplain that will be removed as part of theis project will require a letter of LOMR request.

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

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

Sincerely,

Teresa A. Martin

Teresa A. Martin
Hydrology Plan Checker
COA- Dev. & Bldg. Ser. Division

c: ~~Rami Lujan, Permits~~
Approval file
Drainage File

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

DRAINAGE INFORMATION SHEET

(REV. 11/01/2001)

PROJECT TITLE: RUSH ENTERPRISES ZONE ATLAS/DRG. FILE #: J10 / D33

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

LEGAL DESCRIPTION: PORTION OF TRACT 267 & 268, UNIT 8, TOWN OF ATRISCO GRANT, BERNALILLO

CITY ADDRESS: _____

ENGINEERING FIRM: *Advanced Engineering and Consulting, LLC* CONTACT: Shahab Biazar
ADDRESS: 10205 Snowflake Ct. NW PHONE: (505) 899-5570
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87114

OWNER: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- X 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
- X PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- X S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- X FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- X GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

RECEIVED
JUL 16 2002
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ____ YES
- X NO
- ____ COPY PROVIDED

DATE SUBMITTED: 07 / 11/ 2002 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

ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

July 11, 2002

Mr. Carlos Montoya, PE
City Floodplain Administrator, PWD
Development and Building Services
Plaza Del Sol-2nd Floor West
600 2nd Street NW
Albuquerque, NM 87102

RE: Revised Grading Plan For Rush Enterprises Grading and Drainage Plan, J10/D33

Dear Mr. Montoya:

This letter is to inform you that the grading and drainage plan has been modified. The storm sewer connections in Hanover was changed to match the changes on the DRC plans. Two inlets, on-site were eliminated and the remaining two were move to new locations. The inlets should have more that adequate capacity for the runoff on-site. The maximum flow to each inlet is approximately 20 cfs and the capacity of each inlet is 31.33 cfs. See attached calculation sheet for capacity calculations. Enclosed please also find the revised grading and drainage plan for the changes..

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

Sincerely yours,

Shahab Biazar, P.E.

RECEIVED
JUL 16 2002
HYDROLOGY SECTION

10205 Snowflake Court N.W., Albuquerque, N.M. 87114 PH (505) 899-5570 FAX (505) 897-4996 EMAIL AECLLC@aol.com

STORM DRAIN INLET

SINGLE 'D':

Area at the grate:

L = 38.375" - 7 (1/2" middle bars)
= 34.875"
= 2.906'

W = 25.5" - 13 (1/2" middle bars)
= 19"
= 1.583'

Area = 1.583 x 2.906
= 4.601 ft^2

Flow Capacity:

$Q = CA\sqrt{(2gh)}$

$Q = 0.60 \times 4.601\sqrt{(2x32.2x2)}$

Q = 31.33 cfs, OK maximum flow contributed to any of the inlets on site is 20 cfs.

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 4, 2002

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

Re: Rush Enterprises Grading and Drainage Plan
Engineer's Stamp Dated 4-02-02, (J10/D33)

Dear Mr. Biazar,

Based on the information contained in your submittal dated 4-02-02, the above referenced plan is approved for Preliminary Plat and Site Plan for Building Permit Action by the DRB. However, please make a minor change to the plat and add the word **private** to the blanket drainage easement note.

Building Permit cannot be approved until all financial guarantees are in place for the storm drain in Hanover Road. Also, Work Order will be required for the infrastructure in Hanover Road as well.

As a reminder, the present floodplain that will be removed as part of this project will require a letter of LOMR request.

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

Sincerely,

Carlos A. Montoya, PE
City Floodplain Administrator, PWD
Development and Building Services

C: Terri Martin, Hydrology
File (2)

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

DRAINAGE INFORMATION SHEET

(REV. 11/01/2001)

PROJECT TITLE: RUSH ENTERPRISES ZONE ATLAS/DRG. FILE #: J10 / D33

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

LEGAL DESCRIPTION: PORTION OF TRACT 267 & 268, UNIT 8, TOWN OF ATRISCO GRANT, BERNALILLO

CITY ADDRESS: _____

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

ADDRESS: 10205 Snowflake Ct. NW PHONE: (505) 899-5570

CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87114

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

- X DRAINAGE REPORT
- _____ DRAINAGE PLAN
- _____ CONCEPTUAL GRADING & DRAINAGE PLAN
- X 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
- X PRELIMINARY PLAT APPROVAL
- _____ S. DEV. PLAN FOR SUB'D. APPROVAL
- X S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- _____ SECTOR PLAN APPROVAL
- X FINAL PLAT APPROVAL
- _____ FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY (PERM.)
- _____ CERTIFICATE OF OCCUPANCY (TEMP.)
- X GRADING PERMIT APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ WORK ORDER APPROVAL
- _____ OTHER (SPECIFY)

RECEIVED
APR 02 2002
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- _____ YES
- X NO
- _____ COPY PROVIDED

DATE SUBMITTED: 04 / 02 / 2002 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) acres
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

ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection

April 2, 2002

Mr. Carlos Montoya, PE
City Floodplain Administrator, PWD
Plaza Del Sol-2nd Floor West
600 2nd Street NW
Albuquerque, NM 87102

RE: Revised Grading Plan For Rush Enterprises (J10/D33)

Dear Mr. Montoya:

This letter is in response to your comments received dated March 12, 2002.

1. There are no existing runoff from the 24" CMP. This pipe extends from the north side of the Interstate 40 to the south side of I-40. There is an existing retention pond which is located much lower that the invert of the pipe on the north side. Therefore, intercepting any runoff that may drain to this pipe. There are no other inlets within the median which drain to this 24" Culvert either. And according to Wilson and Company the engineering company which is involved with the design of the I-40 diversion channel all the runoff from the north side of the freeway will be intercepted by the channel. The 24" CMP pipe is also shown on the sketch plat. A copy of the plat is enclosed with this submittal.

2. The proposed lot line for lot 267-B is shown on the grading and drainage plan. Drainage easement and maintenance responsibility for crossing from Tract 267-B to Tract 267-A is added to the plat. See General Notes 11 and 12 on the enclosed copy of the plat for maintenance requirements on the access and drainage easement.

3. Copy of the plan and profile sheet for the 48" storm sewer pipe is included with this submittal. We will submit our own construction plans for the 48" storm sewer pipes. Based on our calculations less inlets are required for Hanover Road.

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

Sincerely yours,

Shahab Biazar, P.E.

10205 Snowflake Court N.W., Albuquerque, N.M. 87114 PH (505) 899-5570 FAX (505) 897-4996 EMAIL AECLLC@aol.com

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Public Works Department
Transportation Development Services Section

June 19, 2002

Sean Biazar, P.E.,
Advanced Engineering
P.O. Box 67098
Albuquerque, NM 87193

Re: Traffic Circulation Layout (TCL) Submittal for Building Permit Approval for
Rush Truck Center, [J-10 / D033]
6521 Hanover N.W.
Engineer's Stamp Dated 06/19/02

Dear Mr. Biazar:

The TCL submittal, dated June 19, 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.

When the superintendent of this project calls for a Temporary C.O. (Temp), immediate issuance is no longer possible at the time of the call. Allow 2 to 3 days following the Certification submittal before verifying C.O. approval/disapproval.
An acceptable copy of the approved TCL, marked up, showing incomplete work remaining, along with a Letter of Certification (Cert) is required prior to issuance of the Temp. The Letter or TCL, or both, must be stamped with the designer's seal for that Cert. Seal must be signed and dated for that Certification. This and all TCL and Cert documentation must be submitted with a completed Drainage and Transportation Information Sheet (also used for the Grading and Drainage submittal) to Hydrology at the Development Services Center of the Plaza Del Sol Building.
When site is complete and a Final C.O. is needed, a Letter of Certification, stating (including the word "Certify/Certification") that the site was built in substantial compliance, needs to be attached to an *exact* copy of the stamped and signed (by this office), approved TCL. Another copy identical to the TCL is acceptable, however, more time will be required to verify the copy before issuing the Final C.O. DRB Site Plans must be *exact* copy, with DRB signature block. Letter or TCL must be stamped with the designer's seal for the Cert. Seal must be signed and dated for that Cert. Submit with a completed Drainage and Transportation Information Sheet to Hydrology.

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,

Mike Zamora, Commercial Plan Checker
Development and Building Services
Planning Department

c: Engineer
Hydrology file
Mike Zamora

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PROJECT TITLE: Rush Truck Center. ZONE MAP/DRG. FILE #: J-10/D033
DRB #: _____ EPC#: _____ WORK ORDER#: No TCL Review Used

LEGAL DESCRIPTION: _____
CITY ADDRESS: 6521 Hanover NW.

ENGINEERING FIRM: Advanced Engineering CONTACT: Shaw Brazar
ADDRESS: P.O. Box 67098 PHONE: _____
CITY, STATE: Albuq, ZIP CODE: 87193

OWNER: Rush Enterprises CONTACT: Bill Wgeman
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____
ADDRESS _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- X TRAFFIC CIRCULATION LAYOUT (TCL) (PLANSET)
- ____ ENGINEERS CERTIFICATION (TCL)
- X 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
- X 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: 6/19/02 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 ot 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.

6/19/02 - Cld Eng. (Shahab) L.M.P. - Get the TCL for files.. Signed of Planset, Need to Stamp Dwgs in Set & get 4 Copies (2);
6/25/02 - ~~Sabaa~~ Sent letter dated 6/19; ✓ - logged in

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 12, 2002

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

Re: Rush Enterprises Grading and Drainage Plan
Engineer's Stamp Dated 2-10-02, (J10/D33)

Dear Mr. Biazar,

Based on your submittal dated 2-28-02, you are not approved for either Preliminary Plat, Site Plan for Subdivision, Final Plat, Grading Permit, or Building Permit until the following comments are addressed:

- Please address the offsite runoff from the existing 24" CMP on the north side. Is the 24" CMP getting any runoff from I-40? Show the 24" CMP on the sketch plat as well. Also, please submit a copy of the sketch plat with you next submittal.

- Show the proposed Lot Line for Tract 267-B on the Grading and Drainage Plan. Also, a private storm drain easement and maintenance responsibility agreement will be required for crossing from Tract 267-B to Tract 267-A.

- Submit a facility map, from the Master Plan, for the proposed 48" pipe in Hanover.

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

Sincerely,

Carlos A. Montoya, PE
City Floodplain Administrator, PWD
Development and Building Services

c: Terri Martin, Hydrology
File (2)

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

DRAINAGE INFORMATION SHEET

(REV. 11/01/2001)

J-10/D33

PROJECT TITLE: RUSH ENTERPRISES ZONE ATLAS/DRG. FILE #: J10

DRB #: EPC #: WORK ORDER #:

LEGAL DESCRIPTION: PORTION OF TRACT 267 & 268, UNIT 8, TOWN OF ATRISCO GRANT, BERNALILLO

CITY ADDRESS:

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

ADDRESS: 10205 Snowflake Ct. NW PHONE: (505) 899-5570

CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87114

OWNER: CONTACT:

ADDRESS: PHONE:

CITY, STATE: ZIP CODE:

ARCHITECT: CONTACT:

ADDRESS: PHONE:

CITY, STATE: ZIP CODE:

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CITY, STATE: ZIP CODE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

CITY, STATE: ZIP CODE:

CHECK TYPE OF SUBMITTAL:

- X DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAINAGE PLAN
- X 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
- X PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- X S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- SECTOR PLAN APPROVAL
- X FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY (PERM.)
- CERTIFICATE OF OCCUPANCY (TEMP.)
- X GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- WORK ORDER APPROVAL
- OTHER (SPECIFY)

RECEIVED
FEB 28 2002
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- YES
- X NO
- COPY PROVIDED

DATE SUBMITTED: 02/10/2002 BY: Shahab Biazar, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submitta 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
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3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or

DRAINAGE REPORT
FOR

RUSH ENTERPRISES

PORTION OF TRACT 267 & 268, UNIT 8, TOWN OF ATRISCO GRANT, BERNALILLO

Prepared by:

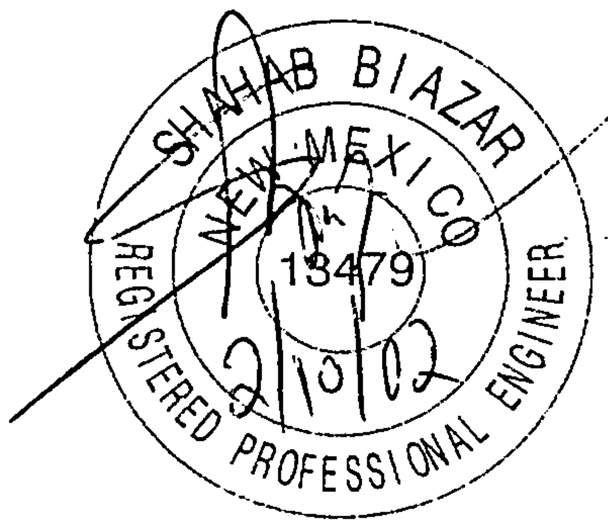
ADVANCED ENGINEERING and CONSULTING, LLC

10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

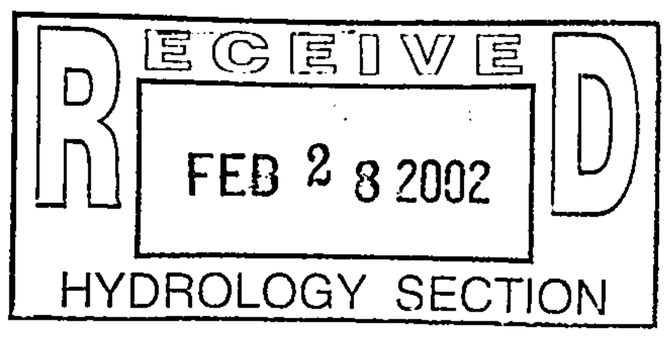
Prepared For:

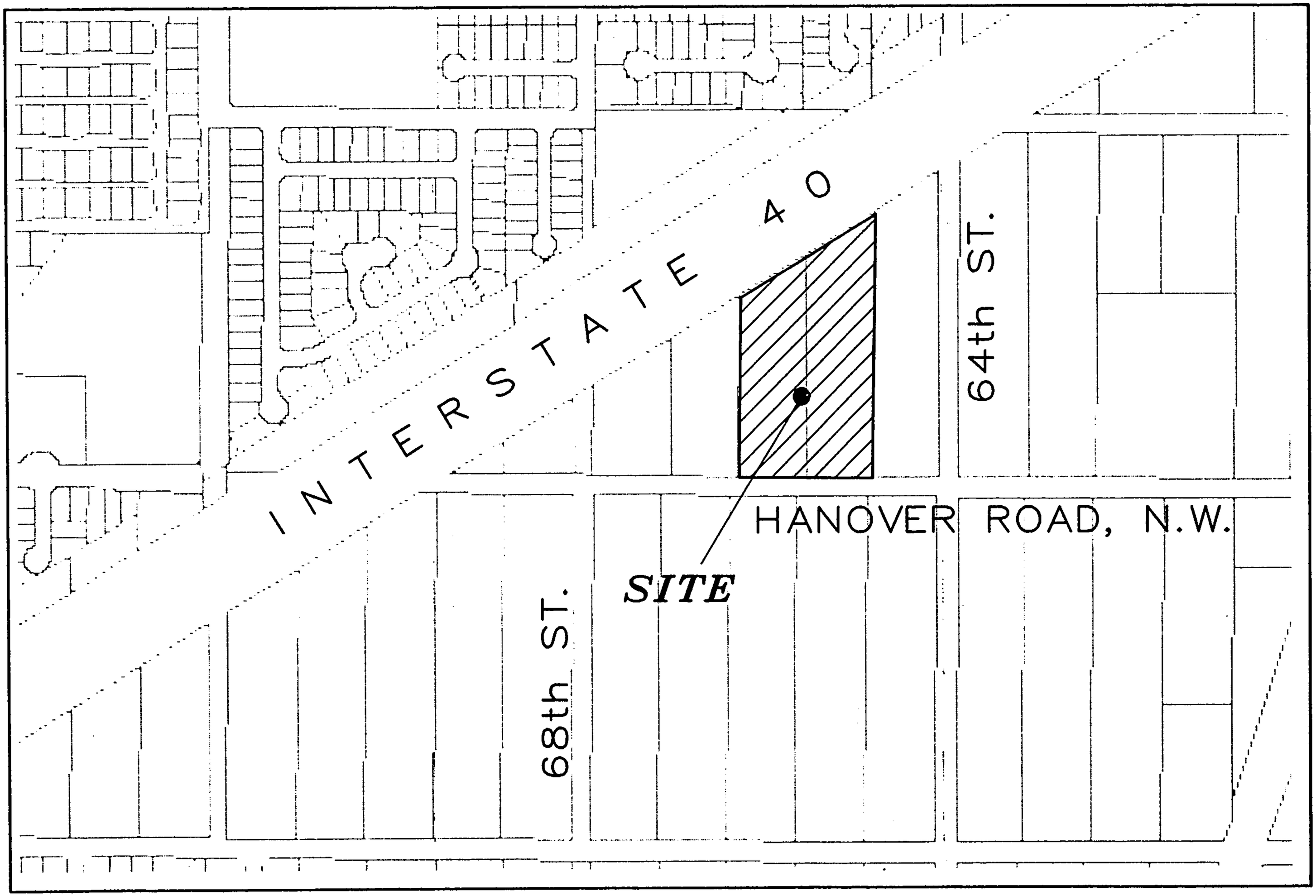
Ed Donahue
Rush Peterbilt Truck Center
2900 Vassar Dr. NE
Albuquerque, NM 87107

February, 2002



Shahab Biazar
PE NO. 13479





VICINITY MAP:

J–10–Z

Location

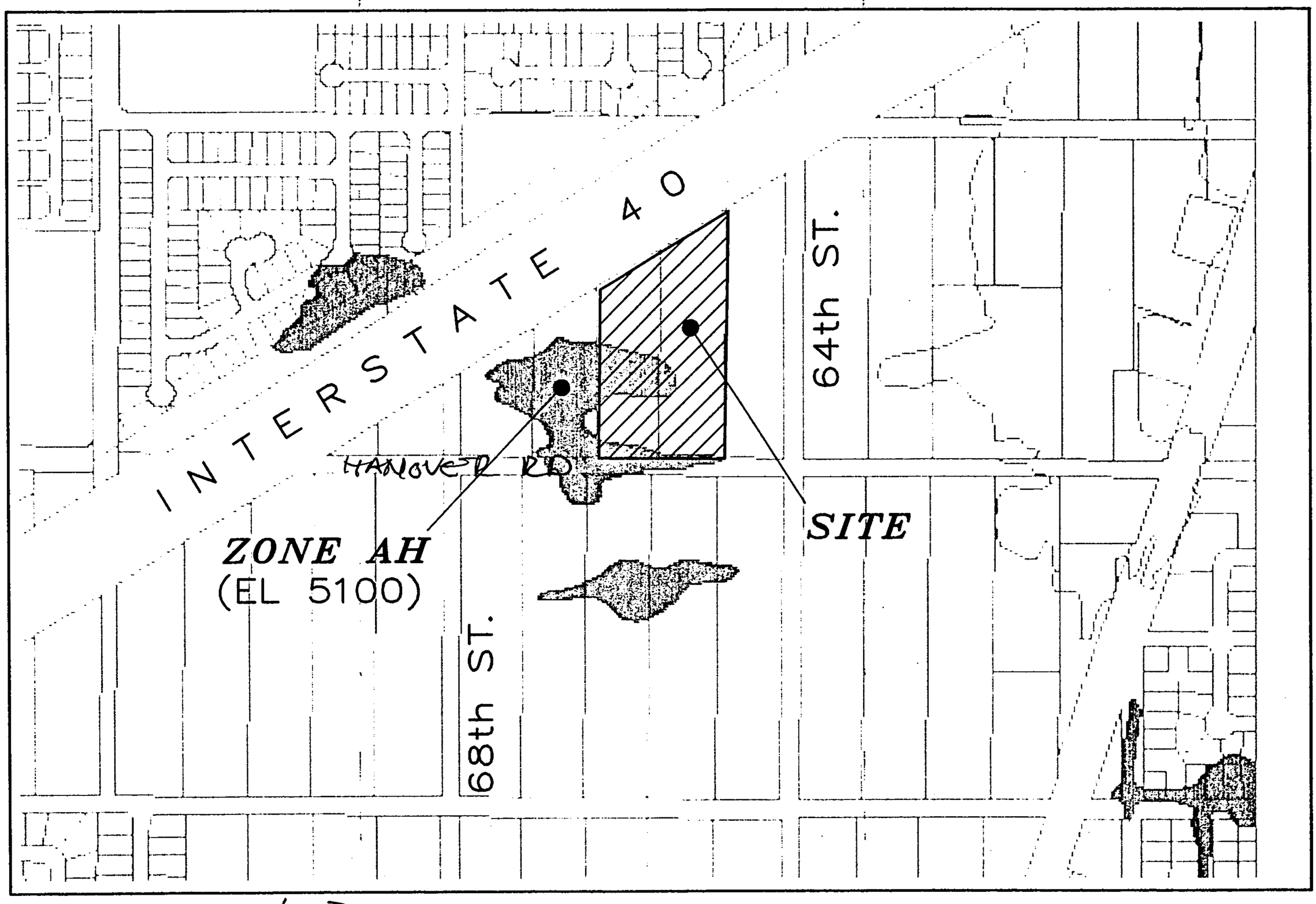
The proposed site is Portions of Tract 267 & 268, Unit 8, Town of Atrisco Grant, Bernalillo County, Containing ±6.2522 Acres, is located north side of Hanover Road and east side of 64th Street. See attached vicinity map for exact location of the site.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the proposed site. We are requesting rough grading approval, site development plan for subdivision purposes, site development plan for building permit, final plat approval and building permit approval.

Existing Drainage Conditions

The site drains to a low point on site. There is an offsite runoff of 20 cfs from the Interstate 40's median that drains to adjacent offsite basin through the 6'x3' culvert crossing ±550' west of our site. The 20 cfs from the 6'x3' culvert drains to the adjacent site and then east towards our project. Since there are existing retention ponds on the north side of the I-40, and the inverts of the culvert crossing are much higher than top of the ponds, no other runoff crosses I-40 to the south near our site. Since historically there has been a significant runoff draining to the low point within and near our site the site has been determined as a floodplain Zone AH (elevation 5100). See attached FIRM Map 35001C0327 D for the location of the site and the floodplain limits.



FIRM MAP: [illegible]

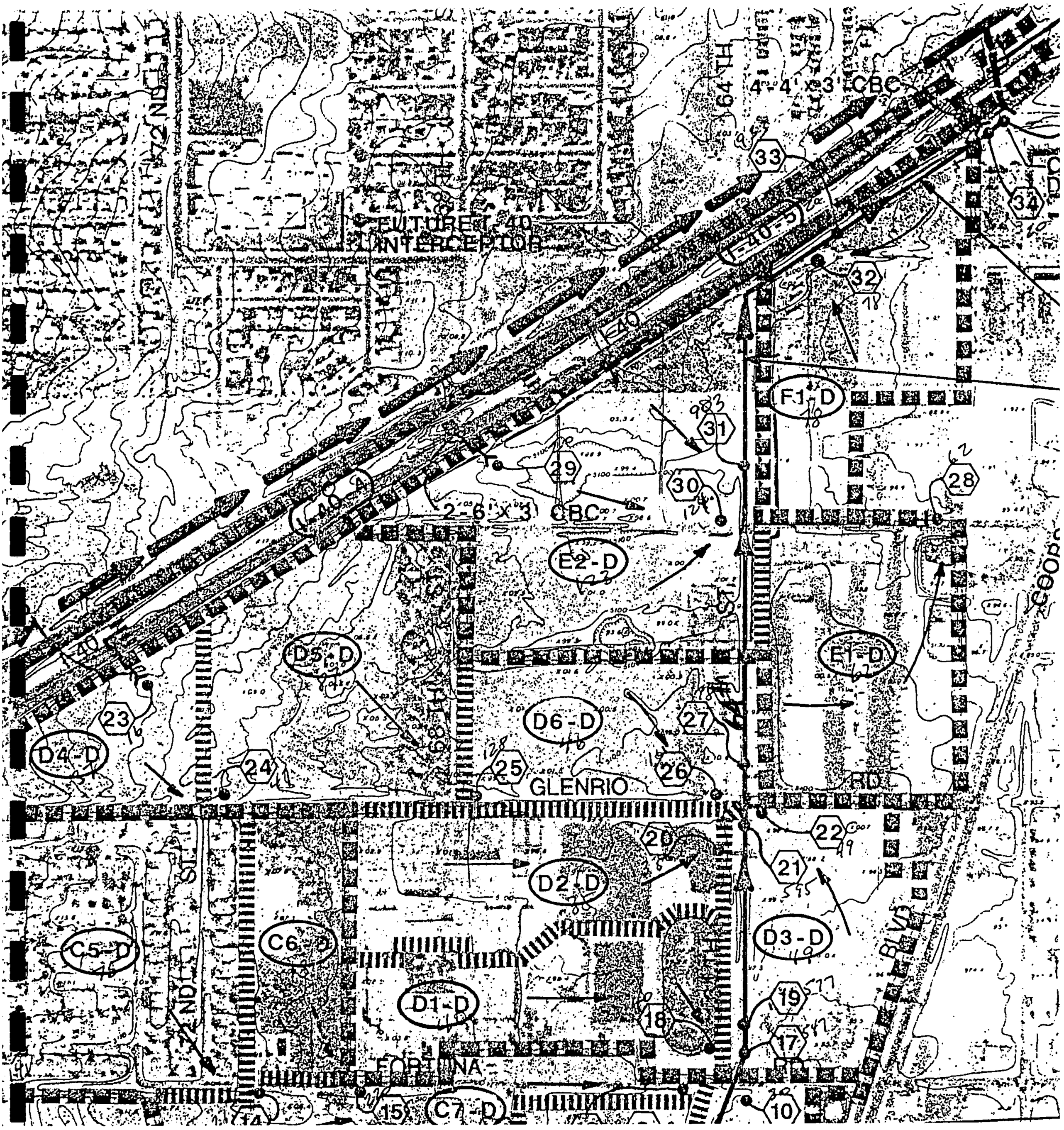
35001C0327 D

Proposed Conditions and On-Site Drainage Management Plan

Overall

The site falls within "West Mesa Diversion Project Drainage Analysis". Smith Engineering has prepared overall drainage basin maps for developed conditions. The site falls within Basin E2-D. A portion of this map is attached. AMAFCA is getting ready to send out the construction plans for the I-40 diversion channel which has been prepared by Wilson and Company. The construction of the I-40 diversion channel will divert all of the runoff which drains to south side of the freeway. Since there are existing retention ponds on the north side of the I-40 and these ponds are much lower than the culvert crossing inverts and intercept all the offsite runoff which historically used to contribute to the offsite runoff, the timing of the I-40 diversion channel will not impact our project and removal of the flood plain after all the storm sewer improvement on Hanover Road.

Smith Engineering Basin map under developed conditions reflects all the future drainage improvements. Under the West Mesa Diversion Project a 108" RCP has been built in 64th Street. As proposed under the master drainage plan, a 48"-RCP will be extended west on Hanover Road for approximately 600' to the low point of the street to intercept the runoff and to eliminate the floodplain. Under the proposed conditions the 48" pipe will carry ±124 cfs east to the existing 108" RCP. A series inlets will be place at the west end of the 48" RCP to intercept the runoff in the low point of the street. A LOMR will be submitted to FEMA once the storm sewer pipe is in place to remove the floodplain from the site.



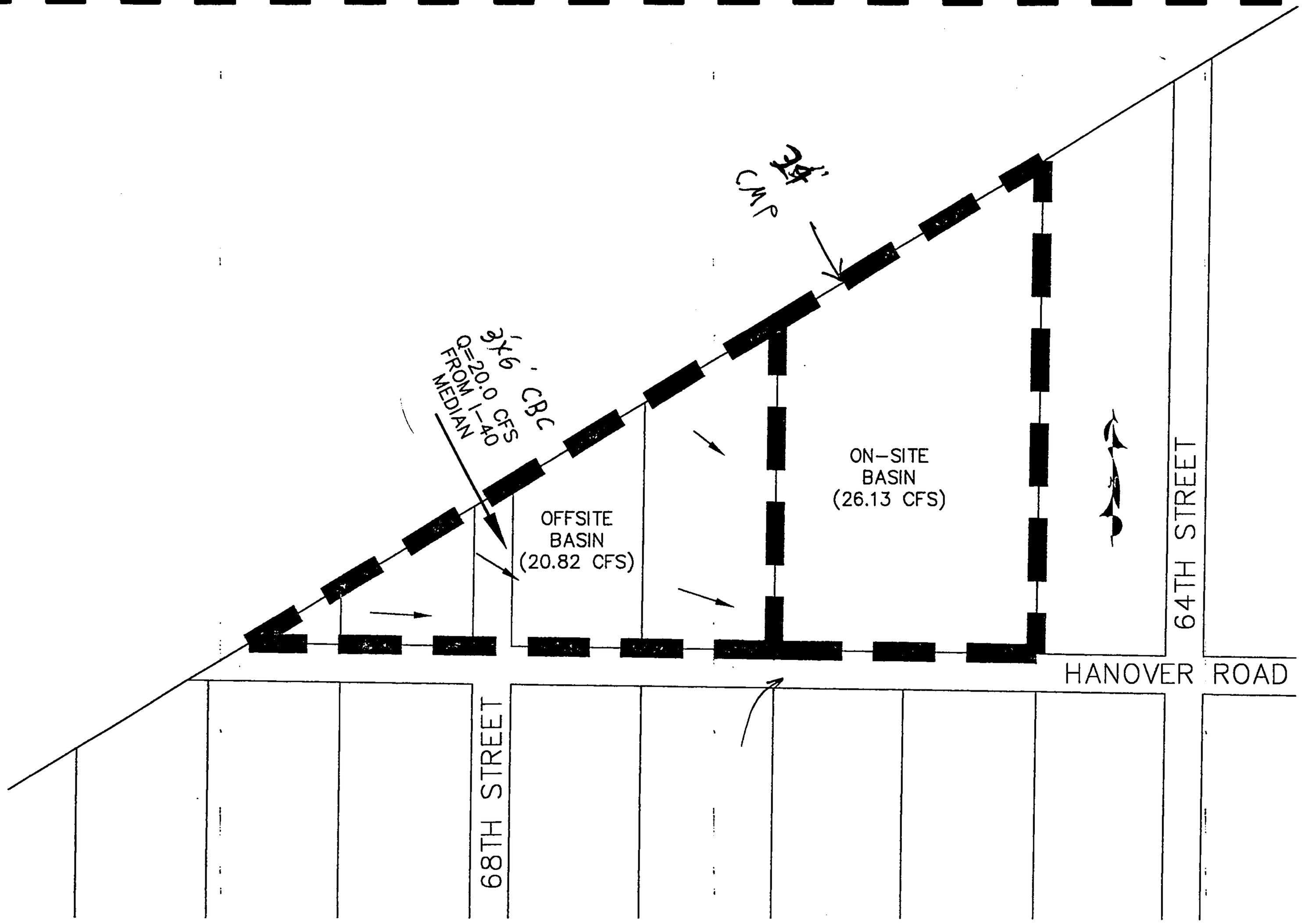
PORTION OF "DRAINAGE AREA MAP"
UNDER THE DEVELOPED CONDITIONS
FOR WEST MESA DIVERSION PROJECT
PREPARED BY SMITH ENGINEERING COMPANY

On-site

The 20 cfs from the 6'x3' along with the offsite basin located to the west will continue to drain east toward our site at total developed runoff of 40.82 cfs. We will divert this runoff to the south to a 30" RCP and then to the proposed 48" RCP in Hanover. On site runoff will drain to a series of inlets on site and then diverted to the proposed 48" RCP in Hanover.

Calculations

City of Albuquerque, Development Process Manuel, Section 22.2, Hydrology Section, revised January, 1993, was used for runoff calculations.


24" CMP
1 3X6' CBC
Q=20.0 CFS FROM I-40 MEDIAN
OFFSITE BASIN (20.82 CFS)
ON-SITE BASIN (26.13 CFS)
64TH STREET
HANOVER ROAD
68TH STREET

BASIN MAP

RUNOFF CALCULATION RESULTS

BASIN AREA

ON-SITE	AREA (SF)	AREA (AC)	AREA (MI^2)
OFFSITE	217,023.39	4.9822	0.007785
ON-SITE	272,349.14	6.2523	0.009769

EXISTING

ON-SITE	Q-100 CFS	Q-10 CFS
OFFSITE	6.47	1.23
ON-SITE	8.11	1.54

PROPOSED

ON-SITE	Q-100 CFS	Q-10 CFS
OFFSITE	20.82	13.52
ON-SITE	26.13	16.96

AHYMO INPUT FILE

```
*
* ZONE 1
*
**************************************************************
*        100-YEAR,  6-HR STORM (UNDER EXISTING CONDITIONS)   *
**************************************************************
*
START                   TIME=0.0
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                        RAIN DAY=2.66 IN DT=0.03333 HR
* OFFSTIE
COMPUTE NM HYD          ID=1 HYD NO=101.0 AREA=0.007785 SQ MI
                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1
* ON-STIE
COMPUTE NM HYD          ID=1 HYD NO=102.0 AREA=0.009769 SQ MI
                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1
*
**************************************************************
*        100-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)   *
**************************************************************
*
START                   TIME=0.0
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                        RAIN DAY=2.66 IN DT=0.03333 HR
* OFFSTIE
COMPUTE NM HYD          ID=1 HYD NO=103.0 AREA=0.007785 SQ MI
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                        TP=0.1333 HR MASS RAINFALL=-1
* ON-STIE
COMPUTE NM HYD          ID=1 HYD NO=104.0 AREA=0.009769 SQ MI
                        PER A=0.00 PER B=5.00 PER C=5.00 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=1.25 IN RAIN SIX=1.47 IN
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                        TP=0.1333 HR MASS RAINFALL=-1
* ON-STIE
COMPUTE NM HYD          ID=1 HYD NO=112.0 AREA=0.009769 SQ MI
                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1
*
**************************************************************
*         10-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)   *
**************************************************************
START                   TIME=0.0
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.25 IN RAIN SIX=1.47 IN
                        RAIN DAY=1.77 IN DT=0.03333 HR
* OFFSTIE
COMPUTE NM HYD          ID=1 HYD NO=113.0 AREA=0.007785 SQ MI
                        PER A=0.00 PER B=5.00 PER C=5.00 PER D=90.00
                        TP=0.1333 HR MASS RAINFALL=-1
* ON-STIE
COMPUTE NM HYD          ID=1 HYD NO=114.0 AREA=0.009769 SQ MI
                        PER A=0.00 PER B=5.00 PER C=5.00 PER D=90.00
                        TP=0.1333 HR MASS RAINFALL=-1
**************************************************************
*
FINISH
```

SUMMARY OUTPUT FILE

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02d RUN DATE (MON/DAY/YR) =02/21/2002
INPUT FILE = 200133B USER NO.= AHYMO-I-9702c01000R31-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION	
START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	2.200
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RAINFALL TYPE= 1										RAIN6=	2.200
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START										TIME=	.00
RAINFALL TYPE= 1										RAIN6=	1.470
COMPUTE NM HYD	113.00	-	1	.00779	13.52	.476	1.14585	1.500	2.713	PER IMP=	90.00
COMPUTE NM HYD	114.00	-	1	.00977	16.96	.597	1.14585	1.500	2.713	PER IMP=	90.00
FINISH											

STORM DRAIN INLET

SINGLE 'D':

Area at the grate:

L = 38.375" - 7 (1/2" $_{\text{middle bars}}$)
= 34.875"
= 2.906'

W = 25.5" - 13 (1/2" $_{\text{middle bars}}$)
= 19"
= 1.583'

Area = 1.583 x 2.906
= 4.601 ft^2

Flow Capacity:

$Q = CA\sqrt{(2gh)}$

$Q = 0.60 \times 4.601 \sqrt{(2 \times 32.2 \times 1.00)}$

Q = 22.15 cfs, OK maximum flow contributed to any of the inlets on site is 10 cfs.

STORM DROP INLET
Double 'A'

<u>Area at the grate:</u>

L = 88 ¾" - 2(6"$_{ends}$) - 6"$_{center\ piece}$ - 14(½ $_{middle\ bars}$)
= 63 ¾"
= 5.3125'

W = 25 ½" - 13(½"$_{middle\ bars}$)
= 19"
= 1.5833'

Area = 5.3125' x 1.5833'
= 8.41 ft^2

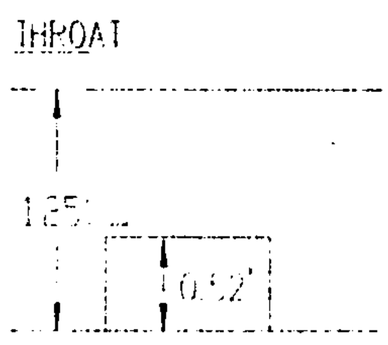
Effective Area = 8.41- 8.41 (0.5 $_{clogging\ factor}$)
= 4.21 ft^2 at the grate

<u>Area at the throat:</u>

L = 13.50"

H = 10 ¾" - 4 ½"
= 6 ¼"
= 0.5208'

Area = 13.50' x 0.5208'
= 7.03 ft^2 at the throat



H=1.25
Q=CA$\sqrt{2gH}$
Q=0.60(7.03)$\sqrt{2(32.2)(1.25)}$
Q= 37.84 CFS

H=(1.25+0.89)/2= 1.08
Q=CA$\sqrt{2gH}$
Q=0.60(4.21)$\sqrt{2(32.2)(1.08)}$
Q=21.07 CFS

TOTAL Q=21.07+ 37.84 =58.91 CFS

<u>Number Of Inlets Required</u>:

Total Q=124 cfs - 26.13 cfs (intercepted by storm sewer pipe on-site) = 97.87 cfs

# of inlets = 97.87/58.91 = 1.66 ∴ **<u>Use 2 Inlets</u>**

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 20133-30

Comment: 30" PIPE FLOW CAPACITY

Solve For Full Flow Capacity

Given Input Data:

Diameter.....	2.50 ft
Slope.....	0.0200 ft/ft
Manning's n.....	0.012
Discharge.....	62.84 cfs

Computed Results:

Full Flow Capacity.....	62.84 cfs
Full Flow Depth.....	2.50 ft
Velocity.....	12.80 fps
Flow Area.....	4.91 sf
Critical Depth.....	2.41 ft
Critical Slope.....	0.0175 ft/ft
Percent Full.....	100.00 %
Full Capacity.....	62.84 cfs
QMAX @.94D.....	67.60 cfs
Froude Number.....	FULL

Open Channel Flow Module, Version 3.12 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, C

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 20133-48

Comment: 48" PIPE FLOW CAPACITY

Solve For Full Flow Capacity

Given Input Data:

Diameter.....	4.00	ft
Slope.....	0.0070	ft/ft
Manning's n.....	0.012	
Discharge.....	130.20	cfs

Computed Results:

Full Flow Capacity.....	130.20	cfs
Full Flow Depth.....	4.00	ft
Velocity.....	10.36	fps
Flow Area.....	12.57	sf
Critical Depth.....	3.41	ft
Critical Slope.....	0.0066	ft/ft
Percent Full.....	100.00	%
Full Capacity.....	130.20	cfs
QMAX @.94D.....	140.05	cfs
Froude Number.....	FULL	

Open Channel Flow Module, Version 3.12 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, Ct 06708

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 20133-18-1.5

Comment: 18" PIPE FLOW CAPACITY

Solve For Full Flow Capacity

Given Input Data:

Diameter.....	1.50 ft
Slope.....	0.0150 ft/ft
Manning's n.....	0.012
Discharge.....	13.94 cfs

Computed Results:

Full Flow Capacity.....	13.94 cfs
Full Flow Depth.....	1.50 ft
Velocity.....	7.89 fps
Flow Area.....	1.77 sf
Critical Depth.....	1.38 ft
Critical Slope.....	0.0130 ft/ft
Percent Full.....	100.00 %
Full Capacity.....	13.94 cfs
QMAX @.94D.....	14.99 cfs
Froude Number.....	FULL

Open Channel Flow Module, Version 3.12 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, Ct 06708

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: 20133-18-1

Comment: 18" PIPE FLOW CAPACITY

Solve For Full Flow Capacity

Given Input Data:

Diameter.....	1.50 ft
Slope.....	0.0100 ft/ft
Manning's n.....	0.012
Discharge.....	11.38 cfs

Computed Results:

Full Flow Capacity.....	11.38 cfs
Full Flow Depth.....	1.50 ft
Velocity.....	6.44 fps
Flow Area.....	1.77 sf
Critical Depth.....	1.29 ft
Critical Slope.....	0.0093 ft/ft
Percent Full.....	100.00 %
Full Capacity.....	11.38 cfs
QMAX @.94D.....	12.24 cfs
Froude Number.....	FULL

Open Channel Flow Module, Version 3.12 (c) 1990
Haestad Methods, Inc. * 37 Brookside Rd * Waterbury, Ct 06708

686281

J10/D033

Temporary Access and Drainage Improvements Easement

This is a Temporary Access and Drainage Improvements Easement (the "Easement"), between the parties named herein, to be effective as of the date set forth herein below as the "Effective Date", for the purposes and consideration herein stated.

1. ***Effective Date.*** The Effective Date of this Easement is June 1, 2002.

2. ***Parties to Easement.*** The parties to this Easement and their respective addresses are:

Lorentzen: JOHN LORENTZEN

Lorentzen's Mailing Address:

John Lorentzen
10020 Central Avenue, SW
Albuquerque, New Mexico
Bernalillo County

RTC New Mexico: RUSH TRUCK CENTERS OF NEW MEXICO, INC., a Delaware corporation

RTC New Mexico's Mailing Address:

Rush Truck Centers of New Mexico, Inc.
C/o Rush Enterprises, Inc.
P.O. Box 34630
San Antonio, Texas 78265-4630

Attention: Legal Department

3. ***Properties Affected by Easement.*** The properties affected by and subject to this Easement are as follows:

a. ***RTC New Mexico Property.*** The RTC New Mexico Property is described as follows:

A certain tract of land, within the Town of Atrisco Grant, Bernalillo County, New Mexico, being all of Tracts 267-A and 267-B, Unit 8, Town of Atrisco Grant, as the same are shown and designated on Plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on May 10, 2002, in Plat Book 2002C, Page 162, and being more particularly described on ***Exhibit "A"***, which is attached hereto and made a part hereof for all purposes.

b. ***Lorentzen Property.*** The Lorentzen Property is described as follows:

A certain tract of land situate within the Town of Atrisco Grant, Bernalillo County, New Mexico and comprising a Southerly portion of Tract numbered 269 of Airport Union of Plat on Sheet number One of two sheets showing a portion of tracts allotted from Town of Atrisco Grant as the same is shown and designated on said Sheet number One filed in the Office of the County Clerk of Bernalillo County, New Mexico, on December 5, 1944, and being more particularly described on ***Exhibit***

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"B", which is attached hereto and made a part hereof for all purposes.

4. ***Grading and Drainage Plan***. RTC New Mexico has secured the approval of the City of Albuquerque, New Mexico, for a grading and drainage plan for the RTC New Mexico Property (the "Plan"), which provides for, among other things, the completion of certain improvements, including grading activities and the installation of a drainage pipe (the "Drainage Improvements"), in order to facilitate the drainage flow, both on site and off site, into a drainage pipe. It is anticipated the completion of the Drainage Improvements provided for by the Plan will enhance the proper drainage of both the RTC New Mexico Property and the Lorentzen Property. In order to accomplish the Plan, access by RTC New Mexico and its Agents as defined herein below, over and across the Lorentzen Property, will be needed in order to: change the current grade of a portion of the Lorentzen Property; re-contour a portion of the Lorentzen Property; and, install the drainage pipe.

5. ***Grant of Easement.*** Lorentzen, for the Consideration set forth herein, grants, sells, and conveys to RTC New Mexico, an easement over, on, and across the Lorentzen Property for the Purposes of the Easement, as described in Paragraph 6 herein below, and for the benefit of the RTC New Mexico Property (the "Easement"), with warranty covenants.

6. ***Purposes of Easement.*** The purposes of the Easement provided for herein, are to provide RTC New Mexico and its Agents, ingress and egress to and from the Lorentzen Property to the RTC New Mexico Property and Hanover Road and over and across the the Lorentzen Property in order to conduct grading activities on the Lorentzen Property in furtherance of the completion of the Drainage Improvements provided for by the Plan, to provide for an easement for drainage purposes and to provide for the future right of RTC New Mexico to repair and/or maintain the grading contours and Drainage Improvements constructed pursuant to the Plan.

7. ***Extent of Use of Easement.*** RTC New Mexico and its Agents have the right to use as much of the surface of the Lorentzen Property as may be reasonably necessary to complete the Drainage Improvements provided for in the Plan and for drainage flows, which naturally result from the slopes and contours of the RTC New Mexico Property and the Lorentzen Property, during and after the completion of such activities and installations. The current area of the Lorentzen Property, which will be subject to the grading activities of RTC New Mexico and the installation of the drainage pipe is approximately as depicted on ***Exhibit "C"***, which is attached hereto and made a part hereof for all purposes. Notwithstanding the currently projected location of such grading and drainage pipe installation, RTC New Mexico shall be entitled to make such modifications to the same as may be required by the City of Albuquerque.

8. ***Consideration.*** The sum of TEN AND NO/100 DOLLARS ($10.00) and other good and valuable consideration, including but not limited to the results and benefits of the Drainage Improvements on the Lorentzen Property, the receipt and sufficiency of which are hereby acknowledged by Lorentzen.

9. ***Terms and Conditions of Easement.*** The Easement granted by this Document shall be subject to and governed by certain terms and conditions, as follows:

   a. ***Character of Easement.*** The Easement is appurtenant to and runs with all or any portion of the RTC New Mexico Property, whether or not the Easement is referenced or described in any conveyance of

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all or such portion of the RTC New Mexico Property. The Easement is nonexclusive and irrevocable. The Easement is for the benefit of RTC New Mexico and RTC New Mexico's successors and assigns who at any time own the RTC New Mexico Property or any interest in the RTC New Mexico Property (as applicable, the "Holder").

b. ***Duration of Easement Rights.*** The duration of the Easement is temporary and shall cease upon the completion of the Subsequent Drainage Flow Alterations on the Lorentzen Property and the assumption by the then current owner of the maintenance of the Drainage Improvements, as provided for by Paragraph 10. below.

c. ***Reservation of Rights.*** Lorentzen reserves for Lorentzen and Lorentzen's heirs, successors, and assigns the right to continue to use and enjoy the surface of the Lorentzen Property for all purposes that do not interfere with or interrupt the use or enjoyment of the Easement by Holder for the Easement Purposes. Lorentzen reserves for Lorentzen and Lorentzen's heirs, successors, and assigns the right to use all or part of the Easement in conjunction with Holder and the right to convey to others the right to use all or part of the Easement in conjunction with Holder, as long as such further conveyance is subject to the terms of this Easement and as long as such usage does not interfere with the Drainage Improvements and resulting drainage provided for by the Plan.

d. ***Equitable Rights of Enforcement.*** This Easement may be enforced by restraining orders and injunctions (temporary or permanent) prohibiting interference and commanding compliance. Restraining orders and injunctions will be obtainable on proof of the existence of interference or threatened interference, without the necessity of proof of inadequacy of legal remedies or irreparable harm, and will be obtainable only by the parties to or those benefited by this Easement; provided, however, that the act of obtaining an injunction or restraining order will not be deemed to be an election of remedies or a waiver of any other rights or remedies available at law or in equity.

10. ***Subsequent Drainage Flow Alterations; Termination of Easement.*** After the completion of the Drainage Improvements provided for by the Plan, neither RTC New Mexico nor Lorentzen shall further modify the drainage flow with respect to the RTC New Mexico Property or the Lorentzen Property, without first having notified the other party of their intention to seek governmental approval of the same and without first having secured the consent and approval of all governmental authorities having jurisdiction over such intended activities (the "Governmental Approvals"). Lorentzen may not negatively impact the drainage flows from the RTC New Mexico Property or create drainage flow onto the RTC New Mexico Property without the consent of RTC New Mexico. Upon the completion of any subsequent drainage flow alterations by Lorentzen (the "Subsequent Drainage Flow Alterations"), which have been approved by the requisite Governmental Authorities and, if required, by RTC New Mexico, the Easement and all easement rights relating thereto, which have been granted herein, shall terminate and the Drainage Improvements shall thereafter be maintained by Lorentzen.

11. ***Submission to Governmental Agencies for Removal of Flood Plain Designation.*** RTC New Mexico, at its expense, shall submit applications to the appropriate governmental agencies for the removal of the RTC New Mexico Property and the Lorentzen Property from its current flood plain

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designations relating to such properties. Lorentzen shall cooperate in the submission of all applications and documentation required for the same, provided the same shall be at no expense or liability to Lorentzen. However, RTC New Mexico shall have no liability, nor responsibility for a favorable determination by such governmental agencies with respect to such applications or the extent of the removal of any or all of such properties from their current flood plain designations.

12. ***Maintenance of Grading Contours and Drainage Improvements.*** RTC New Mexico shall have the right, but not the obligation, to use the Easement rights herein granted in order to maintain any of the grading contours and Drainage Improvements constructed pursuant to the Plan in accordance with their design as approved by the Plan.

13. ***Use of Agents.*** RTC New Mexico shall have the right to use agents, independent contractors and sub-contractors (its "Agents") in the performance and construction of the grading and drainage improvements provided for by the Plan and the maintenance of the same.

14. ***Attorney's Fees and Costs.*** If either party retains an attorney to enforce this Easement, the party prevailing in litigation is entitled to recover reasonable attorney's fees and any court and other costs, including but not limited to, the fees of consultants and experts, incurred in connection with the investigation and pursuit of such activities.

15. ***Binding Effect.*** This Easement binds and inures to the benefit of the parties and their respective heirs, successors, and permitted assigns.

16. ***Counterparts.*** This Easement may be executed in any number of counterparts with the same effect as if all signatory parties had signed the same document. All counterparts will be construed together and will constitute one and the same instrument.

17. ***Waiver of Default.*** It is not a waiver of or consent to default if the non-defaulting party fails to declare immediately a default or delays in taking any action. Pursuit of any remedies set forth in this Easement does not preclude pursuit of other remedies in this Easement or provided by law.

18. ***Further Assurances.*** Each signatory party agrees to execute and deliver any additional documents and instruments and to perform any additional acts necessary or appropriate to perform the terms, provisions, and conditions of this Easement and all transactions contemplated by this Easement.

19. ***Integration.*** This Easement contains the complete Easement of the parties and cannot be varied except by written Easement of the parties. The parties agree that there are no oral Easements, representations, or warranties that are not expressly set forth in this Easement.

20. ***Legal Construction.*** If any provision in this Easement is for any reason unenforceable, to the extent the unenforceability does not destroy the basis of the bargain among the parties, the unenforceability will not affect any other provision hereof, and this Easement will be construed as if the unenforceable provision had never been a part of the Easement. Whenever context requires, the singular will include the plural and neuter include the masculine or feminine gender, and vice versa. Article and section headings in this Easement are for reference only and are not intended to restrict or define the text of any section. This Easement

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will not be construed more or less favorably between the parties by reason of authorship or origin of language.

21. ***Notices.*** Any notice required or permitted under this Easement must be in writing. Any notice required by this Easement will be deemed to be delivered (whether actually received or not) when deposited with the United States Postal Service, postage prepaid, certified mail, return receipt requested, and addressed to the intended recipient at the address shown in this Easement. Notice may also be given by regular mail, personal delivery, courier delivery, facsimile transmission, or other commercially reasonable means and will be effective when actually received. Any address for notice may be changed by written notice delivered as provided herein.

22. ***Time.*** Time is of the essence. Unless otherwise specified, all references to "days" mean calendar days. Business days exclude Saturdays, Sundays, and legal public holidays. If the date for performance of any obligation falls on a Saturday, Sunday, or legal public holiday, the date for performance will be the next following regular business day.

AGREED and ***EXECUTED*** to be effective as of the Effective Date first set forth above.

LORENTZEN:

_____
JOHN LORENTZEN

RTC NEW MEXICO:

RUSH TRUCK CENTERS OF NEW MEXICO, INC.,
a Delaware corporation

BY: _____
Martin A. Naegelin, Jr., Vice-President

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(ACKNOWLEDGMENTS)

STATE OF NEW MEXICO)

COUNTY OF BERNALILLO)

This instrument was acknowledged before me on June 14, 2002, by Lorentzen.

Notary Public, State of New Mexico

OFFICIAL SEAL
SHAHRAM BIAZAR
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 9-28-03

STATE OF TEXAS)

COUNTY OF COMAL)

This instrument was acknowledged before me on June 11, 2002, by Martin A. Naegelin, Jr., Vice-President of RUSH TRUCK CENTERS OF NEW MEXICO, INC., a Delaware corporation, on behalf of said corporation.

IRMA EMORY
MY COMMISSION EXPIRES
December 16, 2005

Notary Public, State of Texas

AFTER RECORDING RETURN TO:

Rush Truck Centers of New Mexico, Inc.
C/o Rush Enterprises, Inc.
P.O. Box 34630
San Antonio, Texas 78265-4630

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EXHIBIT "A"

A CERTAIN TRACT OF LAND WITHIN THE TOWN OF ATRISCO GRANT, BEING ALL OF TRACTS 267-A AND 267-B, UNIT 8, TOWN OF ATRISCO GRANT, AS THE SAME IS SHOWN AND DESIGNATED ON SAID PLAT, FILED FOR RECORD IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY , NEW MEXICO ON MAY 10, 2002, IN PLAT BOOK 2002C, PAGE 162 AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF THE HEREIN DESCRIBED TRACT, SAID POINT BEING ON THE NORTH RIGHT-OF-WAY LINE OF HANOVER ROAD N.W. FROM WHENCE THE ALBUQUERQUE CONTROL SURVEY MONUMENT "6-J10" BEARS S. 89°28'32" W., 1154.45 FEET; THENCE,

FROM SAID POINT OF BEGINNING N. 00°28'29" E., 518.81 FEET TO THE NORTHWEST CORNER OF SAID TRACT AND FURTHER BEING A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF I-40; THENCE,

LEAVING THE NORTHWEST CORNER ALONG SOUTH RIGHT-OF-WAY LINE OF I-40 N. 58°41'09" E., 493.94 FEET TO A POINT; THENCE,

FROM SAID POINT S. 00°29'55" E., 779.17 FEET TO THE SOUTHEAST CORNER OF SAID TRACT AND FURTHER BEING A POINT ON THE NORTH RIGHT-OF-WAY LINE OF HANOVER ROAD; THENCE,

ALONG SAID RIGHT-OF-WAY LINE N. 89°30'15" W., 419.52 FEET TO THE SOUTHWEST CORNER OF TRACT HEREIN BEING DESCRIBED AND POINT OF BEGINNING, CONTAINING 6.2522 ACRE (272,345.83 SF) MORE OR LESS.

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A CERTAIN TRACT OF LAND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, BERNALILLO COUNTY, NEW MEXICO, BEING AND COMPRISING A SOUTHERLY PORTION OF TRACT NUMBERED 269 OF AIRPORT UNIT OF PLAT ON SHEET NUMBER ONE OF TWO SHEETS SHOWING A PORTION OF TRACTS ALLOTTED FROM TOWN OF ATRISCO GRANT, AS THE SAME IS SHOWN AND DESIGNATED ON SAID SHEET NUMBER ONE, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON DECEMBER 5, 1944.

BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS SURVEY AS FOLLOWS:
BEGINNING AT THE NORTHWEST CORNER OF THE TRACT HEREIN DESCRIBED, SAID NORTHWEST CORNER BEING COMMON TO THE POINT OF INTERSECTION OF THE WEST LINE OF AFOREMENTIONED TRACT 269 WITH THE SOUTHERLY RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY 40 (AS SHOWN ON NEW MEXICO STATE HIGHWAY COMMISSION RIGHT-OF-WAY MAP, NEW MEXICO PROJECT NO. I-040-3(28)148, BERNALILLO COUNTY, NEW MEXICO); WHENCE, THE POINT OF INTERSECTION OF SAID SOUTHERLY RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY 40 WITH THE EASTERLY LINE OF GALISTEO DRIVE, BEARS S. 58° 53' 15" W, 247.08 FEET DISTANCE:

THENCE, S. 00° 41' W., 388.79 FEET DISTANCE TO THE SOUTHWEST CORNER OF THE TRACT HEREIN DESCRIBED, SAID SOUTHWEST CORNER BEING A POINT ON THE NORTHERLY LINE OF HANOVER ROAD AND COMMON TO THE SOUTHWEST CORNER OF TRACT 269;

THENCE, S. 89° 19' E., 210.0 FEET DISTANCE ALONG SAID NORTHERLY LINE OF HANOVER ROAD TO THE SOUTHEAST CORNER OF THE TRACT HEREIN DESCRIBED, SAID SOUTHEAST CORNER BEING COMMON TO THE SOUTHEAST CORNER OF TRACT 269;

THENCE, N. 00° 41' E., 518.96 FEET DISTANCE TO THE NORTHEAST CORNER OF THE TRACT HEREIN DESCRIBED, SAID NORTHEAST CORNER BEING A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF AFOREMENTIONED INTERSTATE HIGHWAY 40;

THENCE, S. 58° 53' 15" W., 247.07 FEET DISTANCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY 40 TO THE NORTHWEST CORNER AND PLACE OF BEGINNING OF THE TRACT HEREIN DESCRIBED.

EXHIBIT "B"

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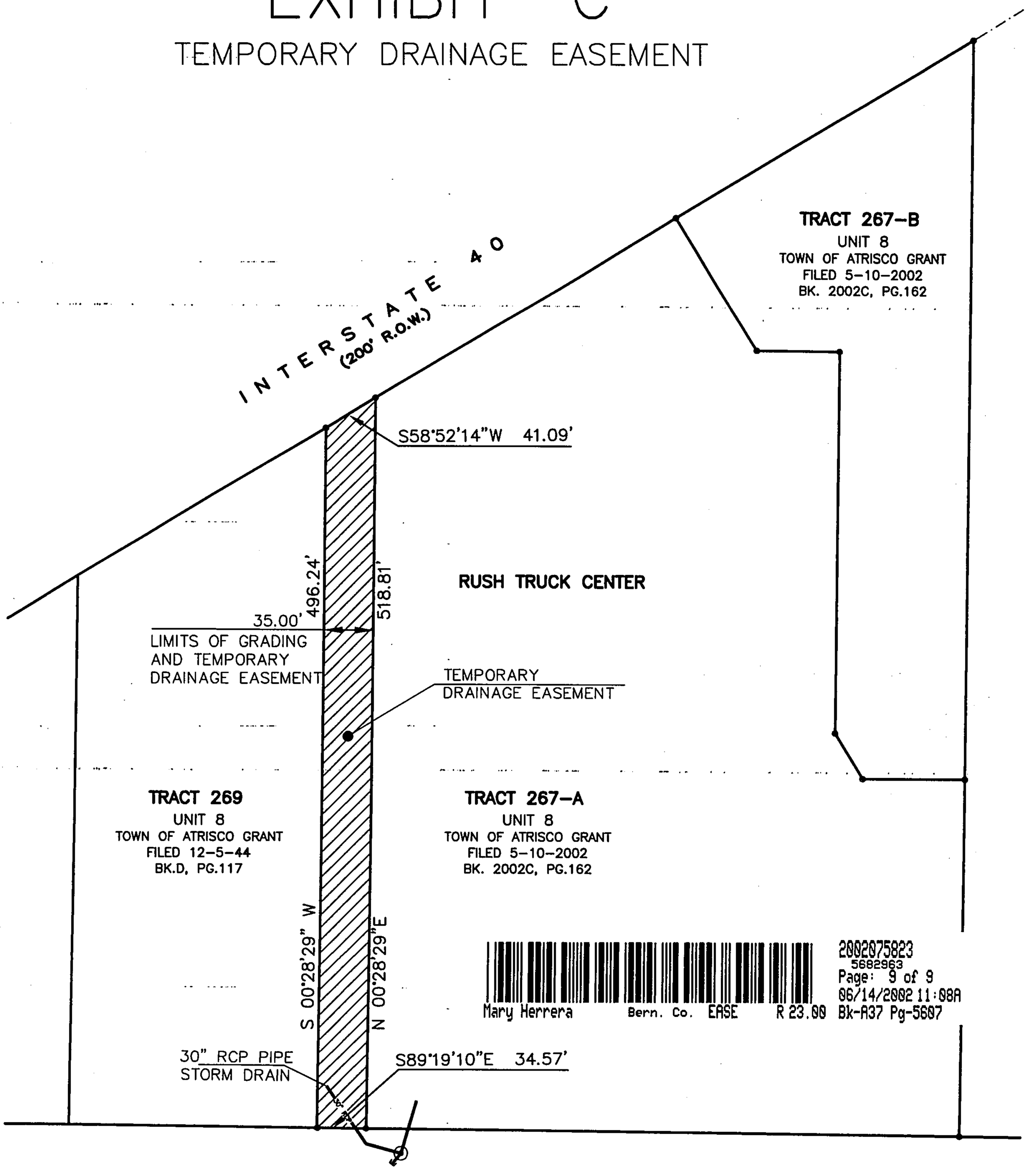
EXHIBIT "C"

TEMPORARY DRAINAGE EASEMENT



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