



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

JLC #2049510  
11601 Montgomery NE  
#146.24  
9/18/01

October 25, 2000

Chris Weiss, P.E.  
C. L. Weiss Engineering  
P.O. Box 97  
Sandia Park, NM 87047

RE: GRADING & DRAINAGE PLAN FOR CAPITAL ASPECTS OFFICE BUILDING (E-22/ D021A) ENGINEER'S STAMP DATED OCTOBER 6, 2000 SUBMITTED FOR BUILDING PERMIT AND SO 19 APPROVALS

Dear Mr. Weiss,

Based upon the information provided in your October 12, 2000, submittal, the project, referred to above, is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

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

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

Sincerely,

*Stuart Reeder, P.E.*

Stuart Reeder, P.E.  
Hydrology Division

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

COA SDM-  
7/14/03  
3/25/03

# CITY OF ALBUQUERQUE

## PERMIT FOR EXCAVATION, CONSTRUCTION AND BARRICADING

<b>S I T E</b>	<b>CONTRACTOR LICENSE ADDRESS</b>	T.L.C. COMPANY, INC.  GPO9 P.O. BOX 23398 ALBUQUERQUE, NM 87192	<b>PERMIT NUMBER</b>	2049510		
			<b>PROJECT NUMBER</b>			
			<b>PERMIT ISSUE DATE</b>	09/18/2001		
			<b>BARRICADED BY</b>	ADV		
			<b>BLUE STAKE</b>	4671		
			<b>PAVING BY</b>	CON		
		11601 MONTGOMERY BD NE	<b>EXCAVATION 443008-5810000</b>	42.00	EX	
			<b>SIDEWALK 443012-5810000</b>	0.00	SW	
			<b>DRIVEPAD 443011-5810000</b>	0.00	DP	
			<b>CURB/GUTTER 443010-5810000</b>	0.00	CG	
			<b>BARRICADING 443009-5810000</b>	104.24	RR	
			<b>RESTORATION 443017-5810000</b>	0.00	RS	
			<b>TOTAL FEE</b>	146.24		
	<b>PERMIT AND DETOUR PLAN COMMENTS</b>					
	SD#19: LETTER & PLANS ON FILE; BARRIC: RLWB FOR 60' @ \$39.62 P/DAY 1ST DAY FREE 9:00A-3:00P PER DARLENE SAAVEDRA					
<b>START DATE</b>	<b>COMPLETION DATE</b>	<b>PERMIT EXPIRES</b>	<b>INSURANCE EXPIRES</b>	<b>BOND EXPIRES</b>	<b>ZONE ATLAS</b>	
07/19/2001	09/21/2001	09/21/2001	07/01/2002	12/31/2001		
APPLICANT  ISSUED BY			<b>VOID UNTIL VALIDATED BY CITY TREASURER</b>			

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

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

DATE EXCAVATION STARTED \_\_\_\_\_

Backfill: Started \_\_\_\_\_ Completed \_\_\_\_\_ Accepted \_\_\_\_\_

Paved Cleared \_\_\_\_\_ Site Cleared \_\_\_\_\_ Warranty Exp \_\_\_\_\_

Restoration Fee Refund Authorized Yes \_\_\_\_\_ NO \_\_\_\_\_ BY: \_\_\_\_\_

Cash Disbursement Prepared for Refund Dated \_\_\_\_\_



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 25, 2003

Chris Weiss, P.E.  
C.L Weiss Engineering, Inc.  
P.O. Box 97  
Sandia Park, New Mexico 87047

**RE: CAPITAL ASPECTS (F-22/D21A)**  
**(11601 Montgomery Blvd NE)**  
**ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY**  
**ENGINEERS STAMP DATED 10/6/2000**  
**ENGINEERS CERTIFICATION DATED 9/20/2002 Rev. 1/18/2003**

Dear Chris:

Based upon the information provided in your Engineers Certification submittal dated 1/2/2003, and based upon the approval of the SO19 on 3/25/2003 by the City's Storm Drainage Maintenance inspector, the above referenced site is approved for 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  
*AMB*

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



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 13, 2003

Chris Weiss, P.E.  
C.L. Weiss Engineering, Inc.  
P.O. Box 97  
Sandia Park, New Mexico 87047

**RE: CAPITAL ASPECTS (F-22/D21A)**  
**(11601 Montgomery Blvd NE)**  
**ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY**  
**ENGINEERS STAMP DATED 10/6/2000**  
**ENGINEERS CERTIFICATION DATED 9/20/2002 Rev. 1/18/2003**

Dear Chris:

Based on the information provided in your submittal dated 1/22/2003, the above referenced project is approved for a **TEMPORARY** Certificate of Occupancy.

A Temporary Certificate of Occupancy has been issued for 30 days, allowing the remaining drainage issues (corrections on the sidewalk culverts) to be completed within this time scope.

After the outstanding drainage issue has been addressed, a Permanent Certificate of Occupancy may be issued.

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

Sincerely,

Teresa A. Martin  
Hydrology Plan Checker  
Development and Building Services Division  
BLB

c: Certificate of Occupancy Clerk, COA  
✓ Drainage file  
Approval file





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 7, 2003

Chris Weiss, P.E.  
C.L. Weiss Engineering, Inc.  
P.O. Box 97  
Sandia Park, New Mexico 87047

**RE: CAPITAL ASPECTS (F-22/D21A)**  
**(11601 Montgomery Blvd NE)**  
**ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY**  
**ENGINEERS STAMP DATED 10/6/2000**  
**ENGINEERS CERTIFICATION DATED 9/20/2002 Rev. 1/18/2003**

Dear Chris:

We are in receipt of your Engineers Certification submittal dated 1/22/2003 for the above referenced site; However, a Certificate of Occupancy from City Hydrology **can not** be issued at this time.

- Upon a field inspection by the City's Storm Drainage Maintenance Inspector, it was noted that the sidewalk culvert needs corrections to bring it up to City standard specifications.

Please Note: The City has adopted a new standard format for the Engineers Certification. In future submittals, this language should appear on the grading and drainage plan in place of your standard language.

When the above drainage issue has been addressed, we will revisit the issue of granting a permanent Certificate of Occupancy for this site.

If you have any questions, please feel free to contact me at 924-3981.

Sincerely,

Teresa A. Martin  
Hydrology Plan Checker  
Development & Bldg. Services Division  
Bldg

c: File

ROWN0116 RIGHT OF WAY SYSTEM - INQUIRY FUNCTIONS - PERMIT DATA ROWNM116

PERMIT: 2049510 09/18/2001 WORK CODE DESCRIPTION: OTHER  
EXCAV. PERMIT: 2049510 EMERGENCY OR PLANNED: PLANNED  
PROJECT-W.O.: ACTIVITY: CONCRETE WORK  
LOCATION: CONTRACTOR: T.L.C. COMPANY, INC.  
11601 MONTGOMERY BD NE ADDRESS: P.O. BOX 23398  
ALBUQUERQUE, NM 87192  
761-9696

PAVING BY: CON STATE LICENSE: GF09  
ZONE MAP: BARRICADES USED: Y AREA PERMIT:  
START DATE: 09/18/2001 COMPLETION DATE: 09/21/2001 PERMIT EXP: 09/21/2001  
BLUE STAKE: 4671 INSURANCE EXPIRES: 07/01/2002 BOND EXPIR: 12/31/2001

SIDEWALK FEE: 0.00 EXCVTN FEE: 42.00 RESTORE FEE: 0.00  
DRIVEPAD FEE: 0.00 CURB/GUTTER: 0.00 BARRICADE FEE: 104.24  
TOTAL FEE: 146.24

BARRICADES REMOVED: 01/03/2001 (MMDDCCYY FORMAT)  
SO#19; LETTER & PLANS ON FILE; BARRIC: RLWB FOR 60' @ \$39.62 P/DAY 1ST DAY  
FREE 9:00A-3:00P PER DARLENE SAAVEDRA

ENTER = INQUIRY SELECTION PF1, PF13 = PROJECT INFO PF12, PF24 = MAIN MENU

Attn:  
Theresa  
Martin

## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Capital Aspects Office Building ZONE ATLAS / DRNG. FILE # F-22/D021A  
LEGAL DESCRIPTION: Tract H-2, New Holiday Park Subdivision, Albuquerque, Bernalillo County, New Mexico  
CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss  
ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

ARCHITECT: In-Site Architecture and Development CONTACT: Knight Seavey  
ADDRESS: 57 Rock Point Place NE, Albuq. NM 87122 PHONE: 858-0100

SURVEYOR: Hall Surveying Co. CONTACT: Preston Hall  
ADDRESS: \_\_\_\_\_ PHONE: 505-292-6727

CONTRACTOR FIRM: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

### PRE-DESIGN MEETING:

☐ YES  
☐ NO  
☐ COPY OF CONFERENCE RECAP  
SHEET PROVIDED

DRB NO. \_\_\_\_\_  
EPC NO. \_\_\_\_\_  
PROJ. NO. \_\_\_\_\_

### TYPE OF SUBMITTAL:

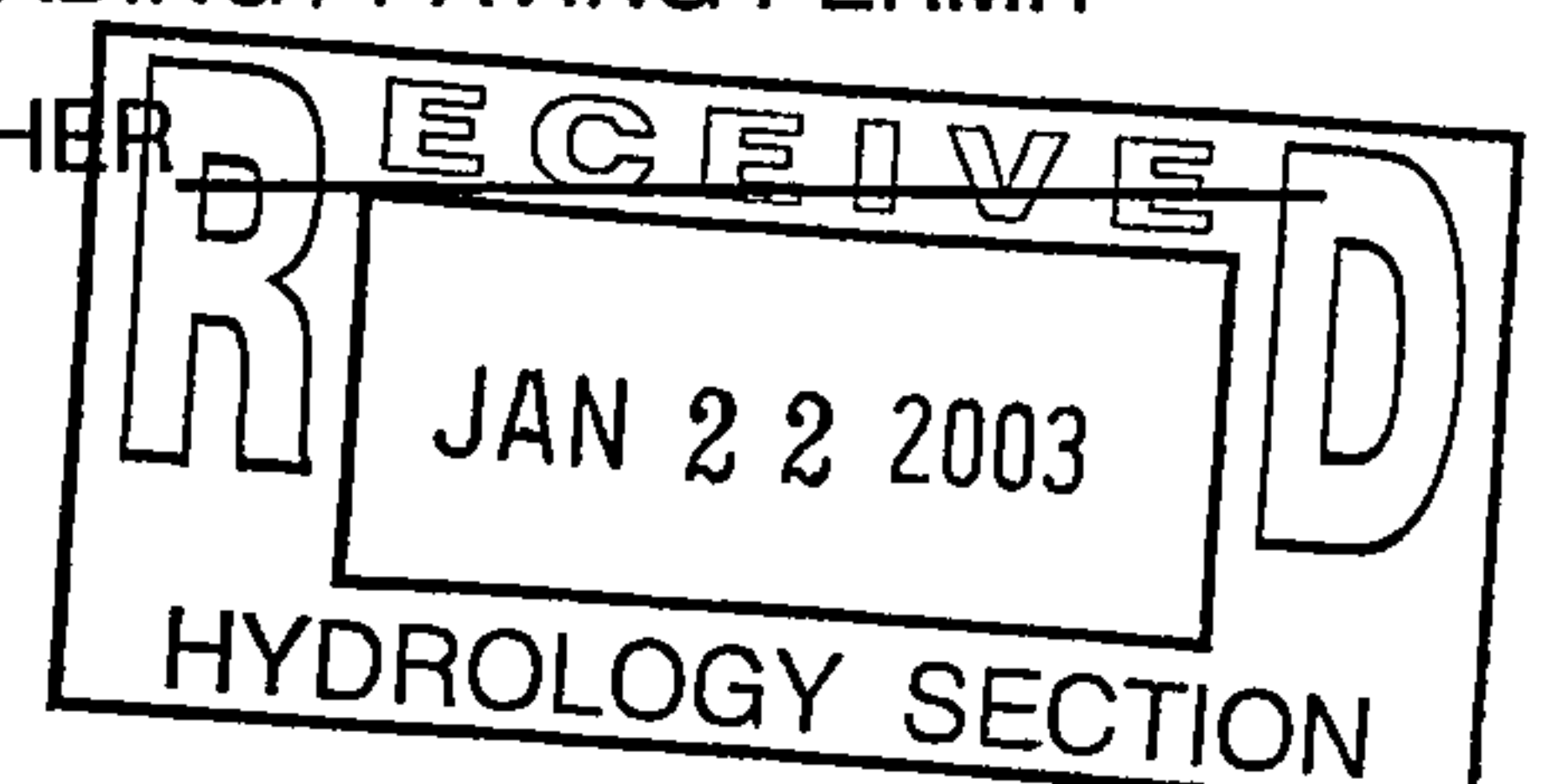
☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING & DRAINAGE PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☒ ENGINEER'S CERTIFICATION

### CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT  
☐ PRELIMINARY PLAT  
☐ SITE DEVELOPMENT PLAN  
☐ FINAL PLAT  
☐ BUILDING PERMIT  
☐ FOUNDATION PERMIT  
☒ CERT. OF OCCUPANCY  
☐ ROUGH GRADING PERMIT  
☐ GRADING / PAVING PERMIT  
☐ OTHER \_\_\_\_\_

DATE SUBMITTED: Wednesday, January 22, 2003

BY: C.L. Weiss Engineering, Inc.







C.L. Weiss Engineering, Inc  
Post Office Box 97  
Sandia Park, N.M. 87047

Phone / Fax (505) 281-1800  
Alvarado Office (505) 266-3444

January 14, 2003

Mr. Bradley L. Bingham  
Senior Civil Engineer – Hydrology  
Development and Building Services Division  
City of Albuquerque

RE: CAPITAL ASPECTS OFFICE BUILDING (F-22/D21A)

Dear Brad,

Enclosed with this letter are two copies of the Engineer's Certification regarding the above referenced site.

Per your letter of October 30, 2002, the following has been completed:

1. The finished floor elevation (5790.0) per the as-built survey has been added to the plan.
2. The contractor is in the process of obtaining the SO19 for the series of sidewalk culverts in Montgomery.
3. Erosion around the area drain on the north side of the building has been corrected. Cobble erosion protection has been added.
4. The contractor has installed weepholes and corrected the storm drain outlet to be in compliance with our detail.
5. A graded cobble lined swale has been constructed along the west side of the building to deliver concentrated roof flow to the new inlet.
6. A 6" high concrete curb has been constructed along the west property line to contain all developed flow within the property.

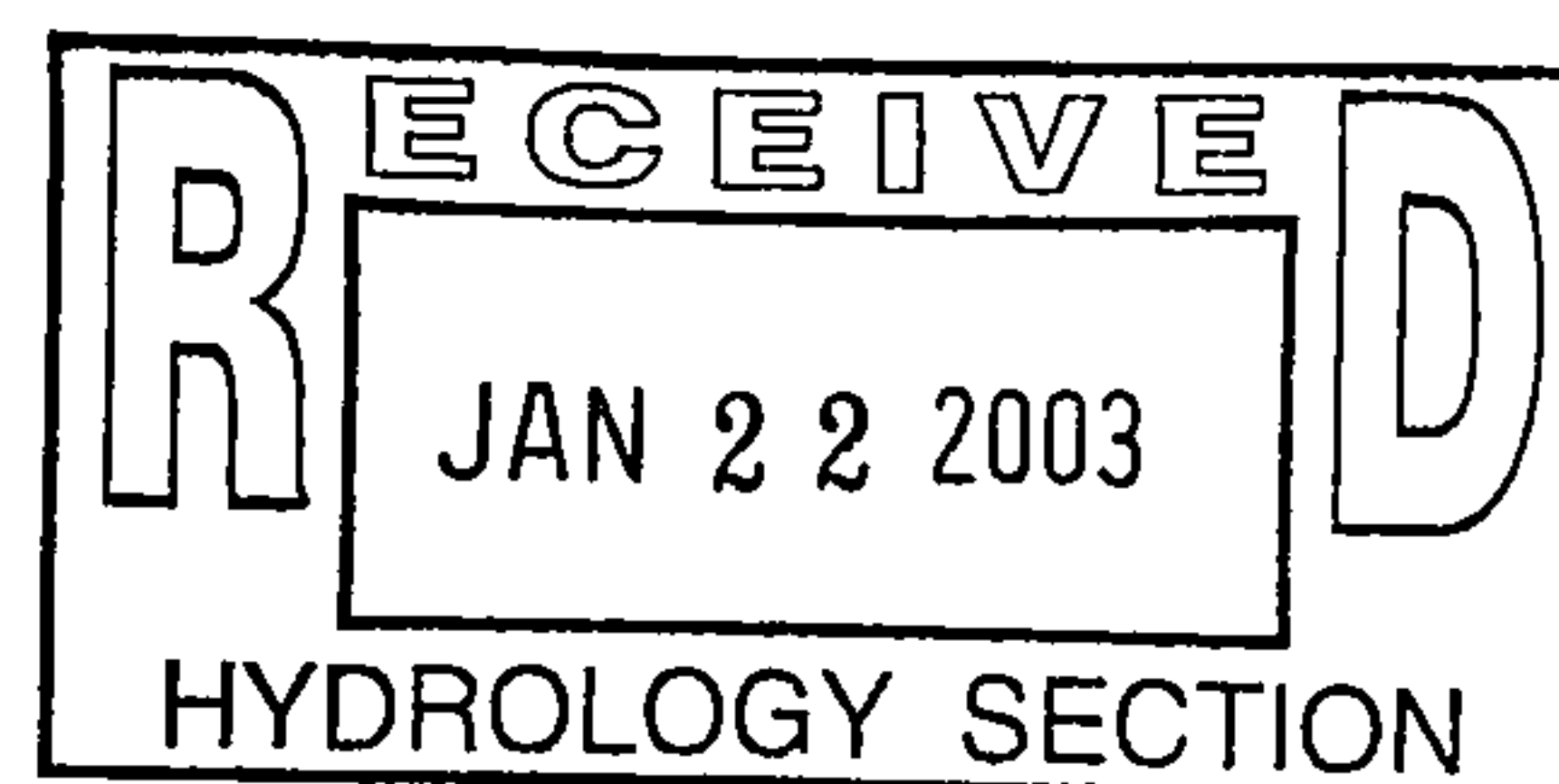
As we have noted on the plan, the site is complete and is in substantial compliance with the approved Drainage / Grading Plan.

Please don't hesitate to call me at 266-3444 or Chris Weiss at 281-1800 with any questions.

Sincerely

A large, stylized handwritten signature in black ink, appearing to read 'Bryan J. Bobrick'.

Bryan J. Bobrick  
C.L. Weiss Engineering, Inc.





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 30, 2002

Chris Weiss, P.E.  
C.L. Weiss Engineering, Inc.  
P.O. Box 97  
Sandia Park, New Mexico 87047

**RE: CAPITAL ASPECTS OFFICE BUILDING (F-22/D21A)**  
**(11601 Montgomery NE)**  
**ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY**  
**ENGINEERS STAMP DATED 10/6/2000**  
**ENGINEERS CERTIFICATION DATED 9/20/2002**

Dear Chris:

We are in receipt of your Engineers Certification submittal dated 9/26/2002 regarding the above referenced site; However, a Certificate of Occupancy from City Hydrology **can not** be issued at this time.

Per the City's Permit Section, it has been verified that the contractor has *not* obtained the permit for the SO19 for the series of sidewalk culverts in Montgomery. This permit, as well as having the City's storm drainage inspector's approval signature on the SO19, needs to be submitted with the Engineers Certification prior to the approval of a Permanent Certificate of Occupancy, as per the Design Process Manual (DPM) Chapter 17 "Private Storm Drain Facilities within a City Right-of-Way and/or Easement"

Also, please identify the finished floor asbuilt elevation, there is erosion around the area drain (labeled 9) on the North side of the property, standing water in inlet, as well as making corrective measures to the roof drainage indicated in your Engineers Certification..

When the above drainage issues have been addressed, and a revised submittal of the Engineers Certification has been submitted to our office, we will again determine if a Certificate of Occupancy may be issued for this site.

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

Sincerely,

Bradley L. Bingham  
Senior Civil Engineer- Hydrology  
Development & Bldg. Services Division

c: File



C.L. Weiss Engineering, Inc  
Post Office Box 97  
Sandia Park, N.M. 87047

Phone / Fax (505) 281-1800  
Alvarado Office (505) 266-3444

Friday, September 20, 2002

City of Albuquerque, Hydrology Division

RE: CAPITAL ASPECTS OFFICE BUILDING (F-22/D021A) – ENGINEER'S  
CERTIFICATION

To Whom It May Concern:

Included with this letter are two copies of the engineer certified DG Plan and a copy of the final as-built survey done by Hall Surveying Co. for your review.

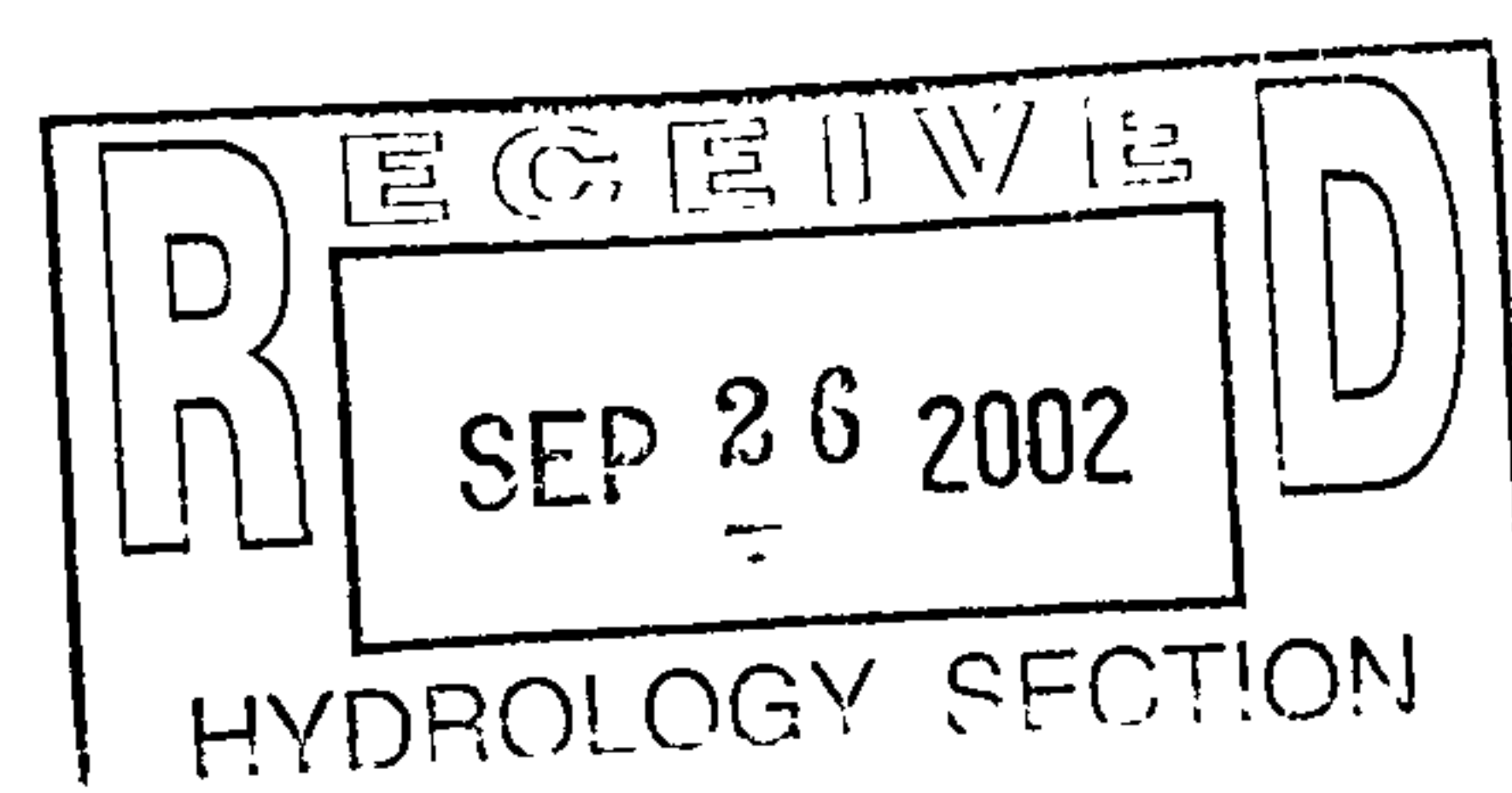
Per the certification, the site is in substantial compliance with the approved drainage and grading plan with the exception of the west side which has not yet been landscaped. The contractor has been advised that because the roof drains were not tied to the storm sewer, the west side of the building will need to have erosion protection provided (i.e. 6" avg. dia. cobble to a depth of 1' or Contech Pyramat Permanent Erosion Control Matrix) within the graded swale area (per the approved plan) and from all roof outlets to the swale. In addition, the landscapers will be installing a short length of extruded concrete curb from the end of the west retaining wall to the sidewalk to keep all drainage on the property.

Please don't hesitate to call me at 266-3444 or Chris Weiss at 281-1800 with any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bryan J. Bobrick', is written over a large, stylized 'X' mark.

Bryan J. Bobrick  
C. L. Weiss, Engineering, Inc.





## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Capital Aspects Office Building ZONE ATLAS / DRNG. FILE #: F-22/D021A  
LEGAL DESCRIPTION: Tract H-2, New Holiday Park Subdivision, Albuquerque, Bernalillo County, New Mexico  
CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss  
ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

ARCHITECT: In-Site Architecture and Development CONTACT: Knight Seavey  
ADDRESS: 57 Rock Point Place NE, Albuq. NM 87122 PHONE: 858-0100

SURVEYOR: Hall Surveying Co. CONTACT: Preston Hall  
ADDRESS: \_\_\_\_\_ PHONE: 505-292-6727

CONTRACTOR FIRM: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

### PRE-DESIGN MEETING:

☐ YES  
☐ NO  
☐ COPY OF CONFERENCE RECAP  
SHEET PROVIDED

DRB NO. \_\_\_\_\_  
EPC NO. \_\_\_\_\_  
PROJ. NO. \_\_\_\_\_

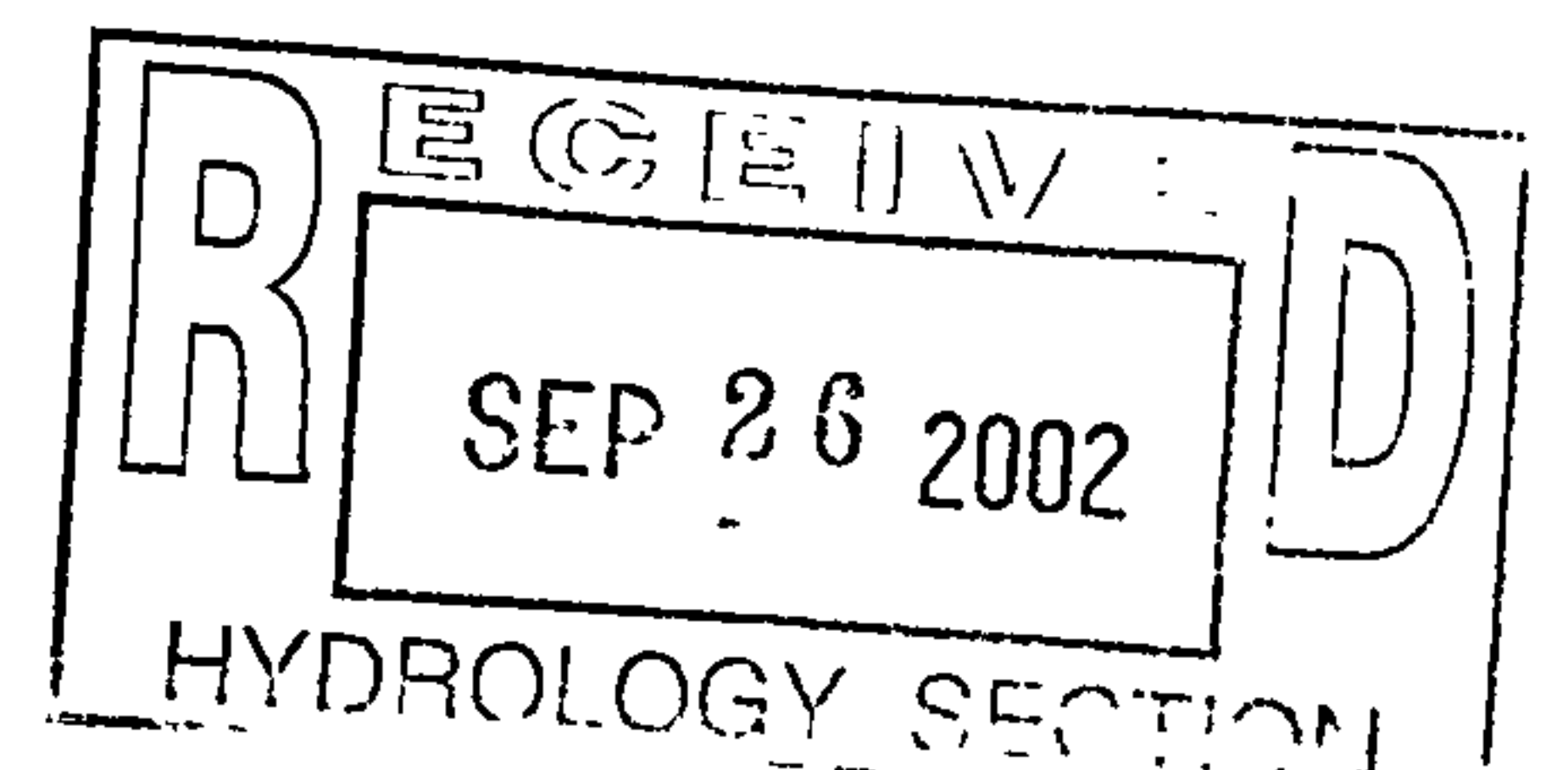
### TYPE OF SUBMITTAL:

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

### CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT  
☐ PRELIMINARY PLAT  
☐ SITE DEVELOPMENT PLAN  
☐ FINAL PLAT  
☐ BUILDING PERMIT  
☐ FOUNDATION PERMIT  
☒ CERT. OF OCCUPANCY  
☐ ROUGH GRADING PERMIT  
☐ GRADING / PAVING PERMIT  
☐ OTHER \_\_\_\_\_

DATE SUBMITTED: Wednesday, September 18, 2002  
BY: C.L. Weiss Engineering, Inc.





57 Rock Point Place NE  
Albuquerque, NM 87122  
(505) 858-0100 (main office)  
(505) 991-5000 (jc direct)  
(505) 858-1098 (fax)  
jud@insiteworks.com

October 10, 2002

Mr. Mike Zamora - Plan Reviewer  
City of Albuquerque Hydrology Dept.  
600 2<sup>nd</sup> Street NW  
Albuquerque, NM 87102

F-22/D21A

**RE: Traffic Improvement Certification - 11601 Montgomery Blvd. NE**

Mr. Zamora:

The contractor for Capital Aspects office building shell at 11601 Montgomery Blvd. NE. is seeking a Certificate of Shell Completion for this project. Accordingly, InSite Architecture + Development has inspected the construction at this project and certifies that the parking and traffic improvements were constructed in substantial conformance with the drawings for this project approved by the City of Albuquerque.

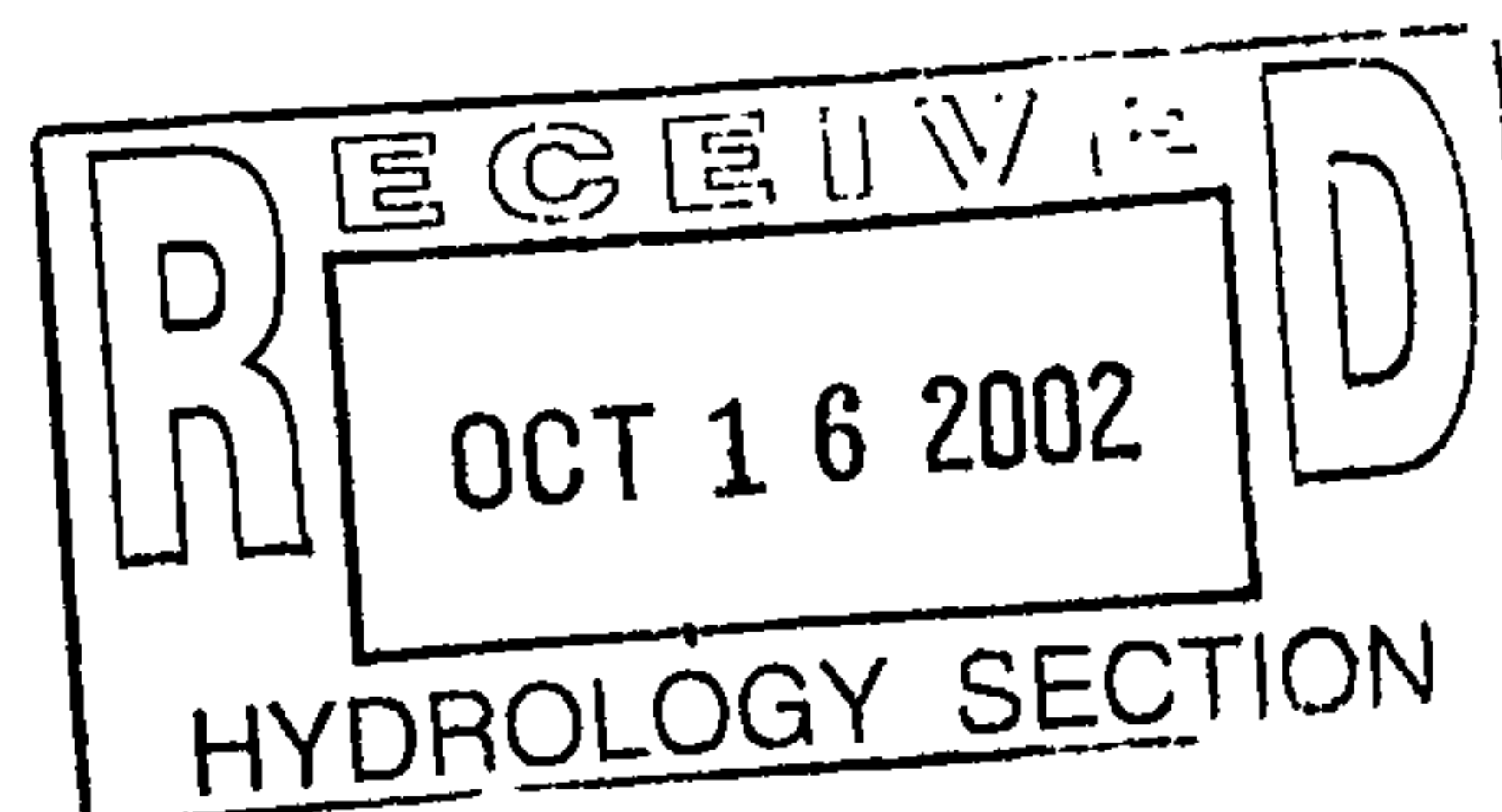
Please find attached a copy of the DRB approved site plan and certification information sheet.

Please call me at 991-5000 if you have any questions or need any additional information.

Respectful Submitted,

A handwritten signature in black ink, appearing to read "Jud Cervenak".

Jud Cervenak, AIA  
Project Architect



10/16 - per Jud Cervenak site is complete except landscape is being done

~~10/17/02 - Call to Rhythm GT. i [unclear] [unclear]~~



# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PROJECT TITLE Capital Aspects Office Building ZONE MAP/DRG. FILE #: F-22  
 DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: Tract H-2, New Holiday Park Subdivision, Albuquerque, Bernalillo County, New Mexico  
 CITY ADDRESS: 11601 Montgomery Blvd. NE

ENGINEERING FIRM: Weiss Engineering CONTACT: Bryan Bobrick  
 ADDRESS: 1100 Alvarado NE PHONE: 266-3444  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87110

OWNER: Ahmad & Faye Hashemian CONTACT: Ahmad Hashemian  
 ADDRESS: 11509 Montgomery, NE PHONE: 237-2000  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87111

ARCHITECT: InSite Architecture + Development CONTACT: Knight Seavey, AIA  
 ADDRESS: 57 Rock Point Place NE PHONE: 858-1099  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87122

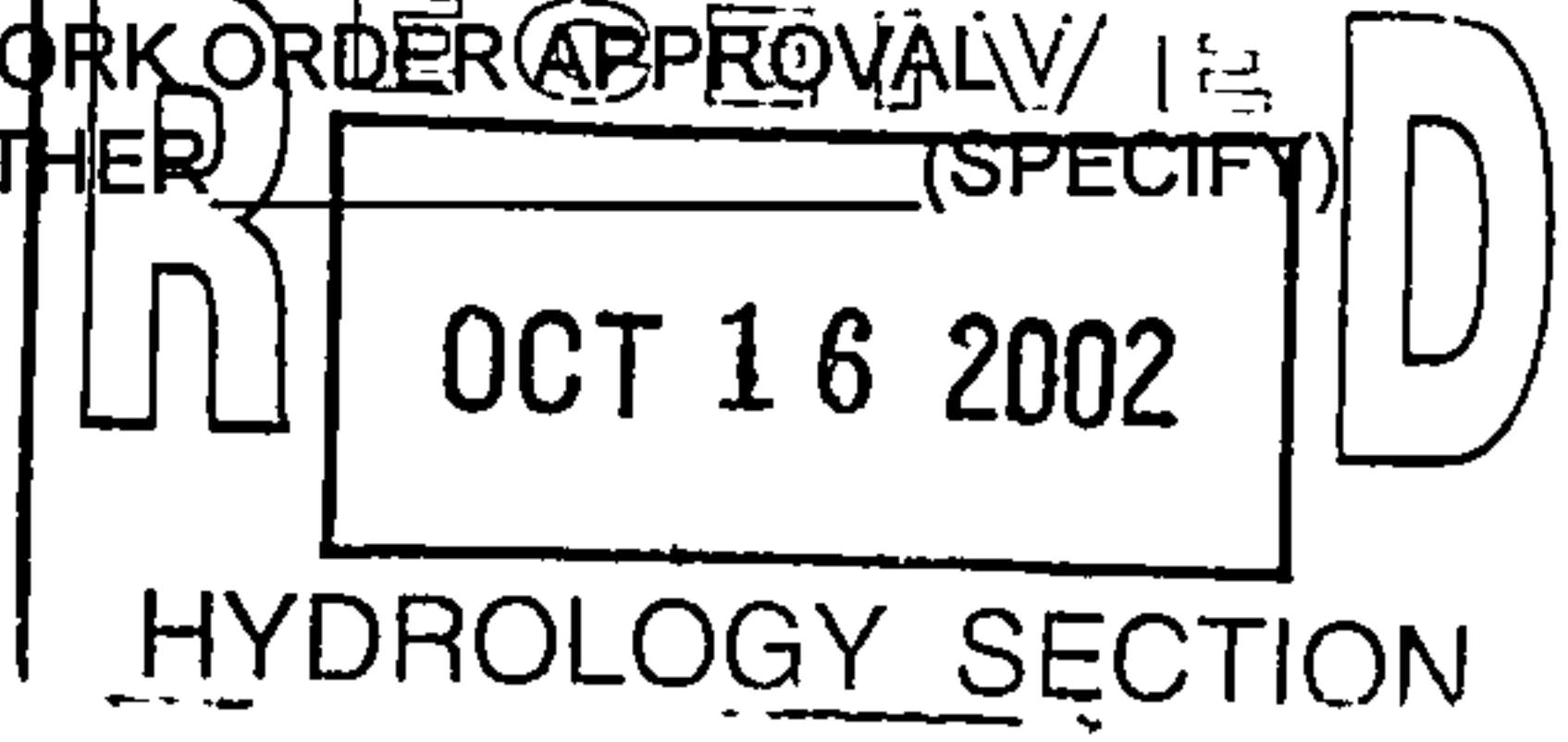
SURVEYOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

CONTRACTOR: The Springer Group CONTACT: Henry Pettine  
 ADDRESS: 5850 Eubank Blvd. NE PHONE: 480-2978  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87111

TYPE OF SUBMITTAL:  
 \_\_\_\_\_ DRAINAGE REPORT  
 \_\_\_\_\_ DRAINAGE PLAN  
 \_\_\_\_\_ CONCEPTUAL GRADING & DRAINAGE PLAN  
 \_\_\_\_\_ GRADING PLAN  
 \_\_\_\_\_ EROSION CONTROL PLAN  
 \_\_\_\_\_ ENGINEER'S CERTIFICATION (HYDROLOGY)  
 \_\_\_\_\_ CLOMR/LOMR  
 \_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)  
☒ ENGINEERS CERTIFICATION (TCL)  
 \_\_\_\_\_ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)  
 \_\_\_\_\_ OTHER

CHECK TYPE OF APPROVAL SOUGHT:  
 \_\_\_\_\_ SIA/FINANCIAL GUARANTEE RELEASE  
 \_\_\_\_\_ PRELIMINARY PLAT APPROVAL  
 \_\_\_\_\_ S. DEV. PLAN FOR SUB'D. APPROVAL  
 \_\_\_\_\_ S. DEV. PLAN FOR BLDG. PRMT. APPROVAL  
 \_\_\_\_\_ SECTOR PLAN APPROVAL  
 \_\_\_\_\_ FINAL PLAT APPROVAL  
 \_\_\_\_\_ FOUNDATION PERMIT APPROVAL  
 \_\_\_\_\_ BUILDING PERMIT APPROVAL  
☒ CERTIFICATE OF OCCUPANCY (PERM.)  
 \_\_\_\_\_ CERTIFICATE OF OCCUPANCY (TEMP.)  
 \_\_\_\_\_ GRADING PERMIT APPROVAL  
 \_\_\_\_\_ PAVING PERMIT APPROVAL  
 \_\_\_\_\_ WORK ORDER APPROVAL  
 \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_

WAS A PRE-DESIGN CONFERENCE ATTENDED:  
 \_\_\_\_\_ YES  
 \_\_\_\_\_ NO  
 \_\_\_\_\_ COPY PROVIDED



DATE SUBMITTED: October 16, 2002 BY: Knight Seavey, AIA

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

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

10/17/02 - CD in GT to Phyllis ; Ben - Sent letter (10/17); t



57 Rock Point Place NE  
Albuquerque, NM 87122  
(505) 858-0100 (main office)  
(505) 858-1098 (fax)  
(505) 820-1976 (jc direct-santa fe)  
jud@insiteworks.com

## Fax Memo

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<b>To:</b>	Mike Zamora – City of ABQ Hydrology	<b>From:</b>	Jud Cervenak, AIA
<b>Fax:</b>	924-3864	<b>Pages:</b>	3
<b>Phone:</b>	924-3620	<b>Date:</b>	October 17, 2002
<b>Re:</b>	Traffic Certification Letters	<b>CC:</b>	

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<input type="checkbox"/> Urgent	<input type="checkbox"/> FYI	<input checked="" type="checkbox"/> For Comment	<input type="checkbox"/> Please Reply	<input type="checkbox"/> For File
---------------------------------	------------------------------	---	---------------------------------------	-----------------------------------

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Mike,

Here are the updated certification letters with my stamp on them.

Thanks.

Jud

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57 Rock Point Place NE  
Albuquerque, NM 87122  
(505) 858-0100 (main office)  
(505) 991-5000 (jc direct)  
(505) 858-1098 (fax)  
jud@insiteworks.com

October 10, 2002

Mr. Mike Zamora – Plan Reviewer  
City of Albuquerque Hydrology Dept.  
600 2<sup>nd</sup> Street NW  
Albuquerque, NM 87102

**RE: Traffic Improvement Certification – 11601 Montgomery Blvd. NE**

Mr. Zamora:

The contractor for Capital Aspects office building shell at 11601 Montgomery Blvd. NE. is seeking a Permanent Certificate of Shell Completion for this project. Accordingly, InSite Architecture + Development has inspected the construction at this project and certifies that the parking and traffic improvements were constructed in substantial conformance with the drawings for this project approved by the City of Albuquerque.

Please find attached a copy of the DRB approved site plan and certification information sheet.

Please call me at 991-5000 if you have any questions or need any additional information.

Respectful Submitted,

A handwritten signature in black ink, appearing to be "Jud Cervenak".

Jud Cervenak, AIA  
Project Architect





57 Rock Point Place NE  
Albuquerque, NM 87122  
(505) 858-0100 (main office)  
(505) 991-5000 (jc direct)  
(505) 858-1098 (fax)  
jud@insiteworks.com

October 10, 2002

Mr. Mike Zamora – Plan Reviewer  
City of Albuquerque Hydrology Dept.  
600 2<sup>nd</sup> Street NW  
Albuquerque, NM 87102

**RE: Traffic Improvement Certification – 705 Osuna Rd. NE**

Mr. Zamora:

The contractor for the Desert Springs Church building at 705 Osuna Rd. NE. is seeking a permanent Certificate of Occupancy for this project. Accordingly, InSite Architecture + Development has inspected the construction at this project and certifies that the parking and traffic improvements were constructed in substantial conformance with the drawings for this project approved by the City of Albuquerque.

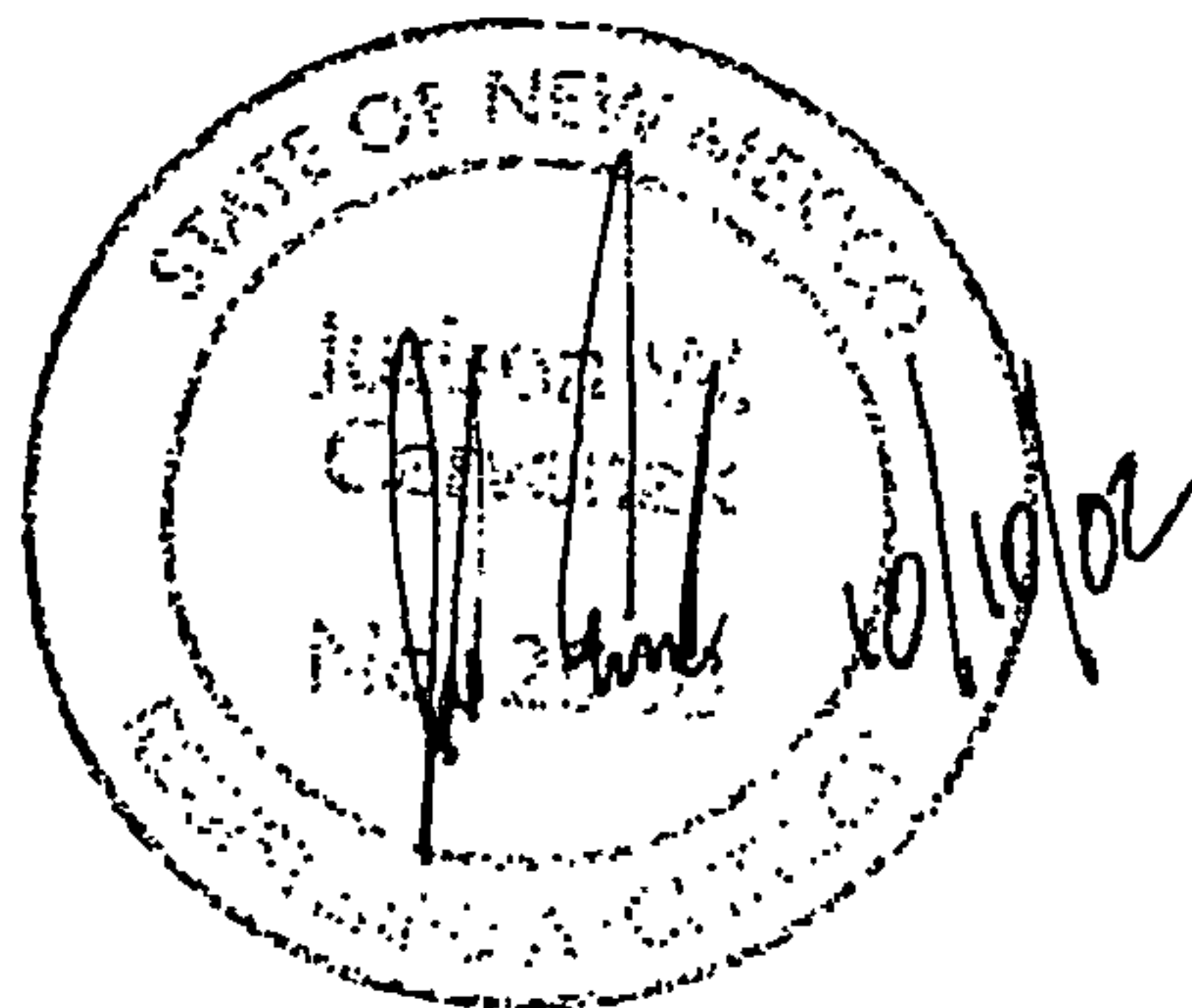
Please find attached a copy of the DRB approved site plan and certification information sheet.

Please call me at 991-5000 if you have any questions or need any additional information.

Respectfully Submitted,

A handwritten signature in black ink, appearing to be "Jud Cervenak".

Jud Cervenak, AIA  
Project Architect





# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 25, 2000

Chris Weiss, P.E.  
C. L. Weiss Engineering  
P.O. Box 97  
Sandia Park, NM 87047

RE: GRADING & DRAINAGE PLAN FOR CAPITAL ASPECTS OFFICE BUILDING (F-22/D021A) ENGINEER'S STAMP DATED OCTOBER 6, 2000 SUBMITTED FOR BUILDING PERMIT AND SO 19 APPROVALS

Dear Mr. Weiss,

Based upon the information provided in your October 12, 2000, submittal, the project, referred to above, is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

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

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

Sincerely,

*Stuart Reeder, P.E.*

Stuart Reeder, P.E.  
Hydrology Division

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



## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Capital Aspects Office Building ZONE ATLAS / DRNG. FILE #: F-22/D021A

LEGAL DESCRIPTION: Tract H-2, New Holiday Park Subdivision, Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

ARCHITECT: In-Site Architecture and Development CONTACT: Knight Seavey

ADDRESS: 57 Rock Point Place NE, Albuq. NM 87122 PHONE: 858-0100

SURVEYOR: Precision Surveys, Inc.. CONTACT: Larry Medrano

ADDRESS: \_\_\_\_\_ PHONE: 505-839-0569

CONTRACTOR FIRM: \_\_\_\_\_ CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

### PRE-DESIGN MEETING:

\_\_\_\_\_ YES

\_\_\_\_\_ NO

\_\_\_\_\_ COPY OF CONFERENCE RECAP  
SHEET PROVIDED

DRB NO. \_\_\_\_\_

EPC NO. \_\_\_\_\_

PROJ. NO. \_\_\_\_\_

### TYPE OF SUBMITTAL:

\_\_\_\_\_ DRAINAGE REPORT

☒ DRAINAGE PLAN

\_\_\_\_\_ CONCEPTUAL GRADING & DRAINAGE PLAN

☒ GRADING PLAN

\_\_\_\_\_ EROSION CONTROL PLAN

\_\_\_\_\_ ENGINEER'S CERTIFICATION

### CHECK TYPE OF APPROVAL SOUGHT:

\_\_\_\_\_ SKETCH PLAT

\_\_\_\_\_ PRELIMINARY PLAT

\_\_\_\_\_ SITE DEVELOPMENT PLAN

\_\_\_\_\_ FINAL PLAT

☒ BUILDING PERMIT

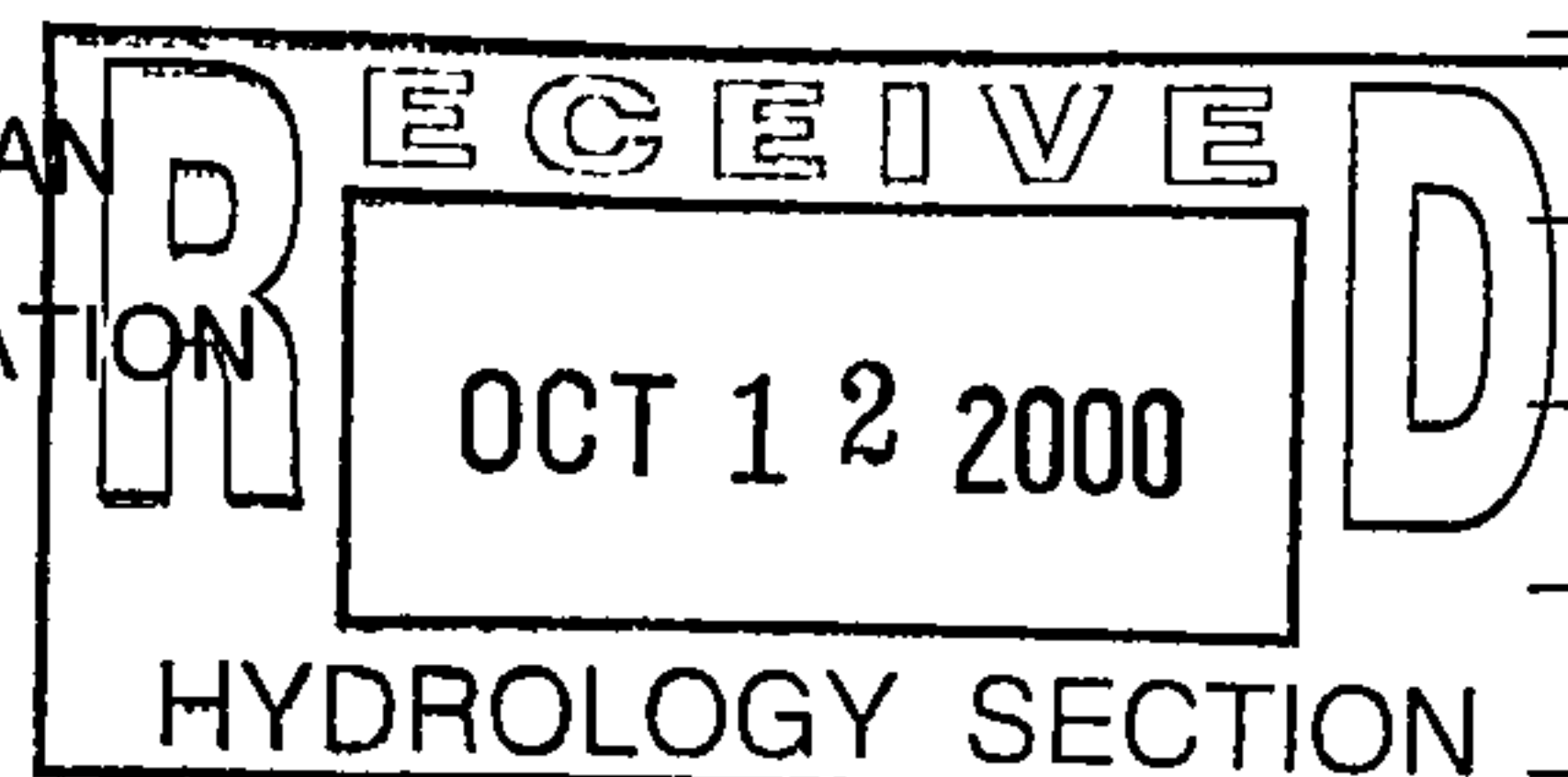
\_\_\_\_\_ FOUNDATION PERMIT

\_\_\_\_\_ CERT. OF OCCUPANCY

\_\_\_\_\_ ROUGH GRADING PERMIT

\_\_\_\_\_ GRADING / PAVING PERMIT

☒ OTHER S.O. 19



DATE SUBMITTED: Thursday, October 05, 2000

BY: C.L. Weiss Engineering, Inc.



C.L. Weiss Engineering, Inc  
Post Office Box 97  
Sandia Park, N.M. 87047

Phone / Fax (505) 281-1800  
Alvarado Office (505) 266-3444

October 5, 2000

Mr. Stuart Reeder, P.E.  
City of Albuquerque, Hydrology Division

RE: CAPITAL ASPECTS OFFICE BUILDING (F-22/D021A) – RESUBMITTAL

Dear Mr. Reeder,

Included with this letter are two copies of the revised DG Plan and a copy of the original approval letter for the project dated February 3, 2000.

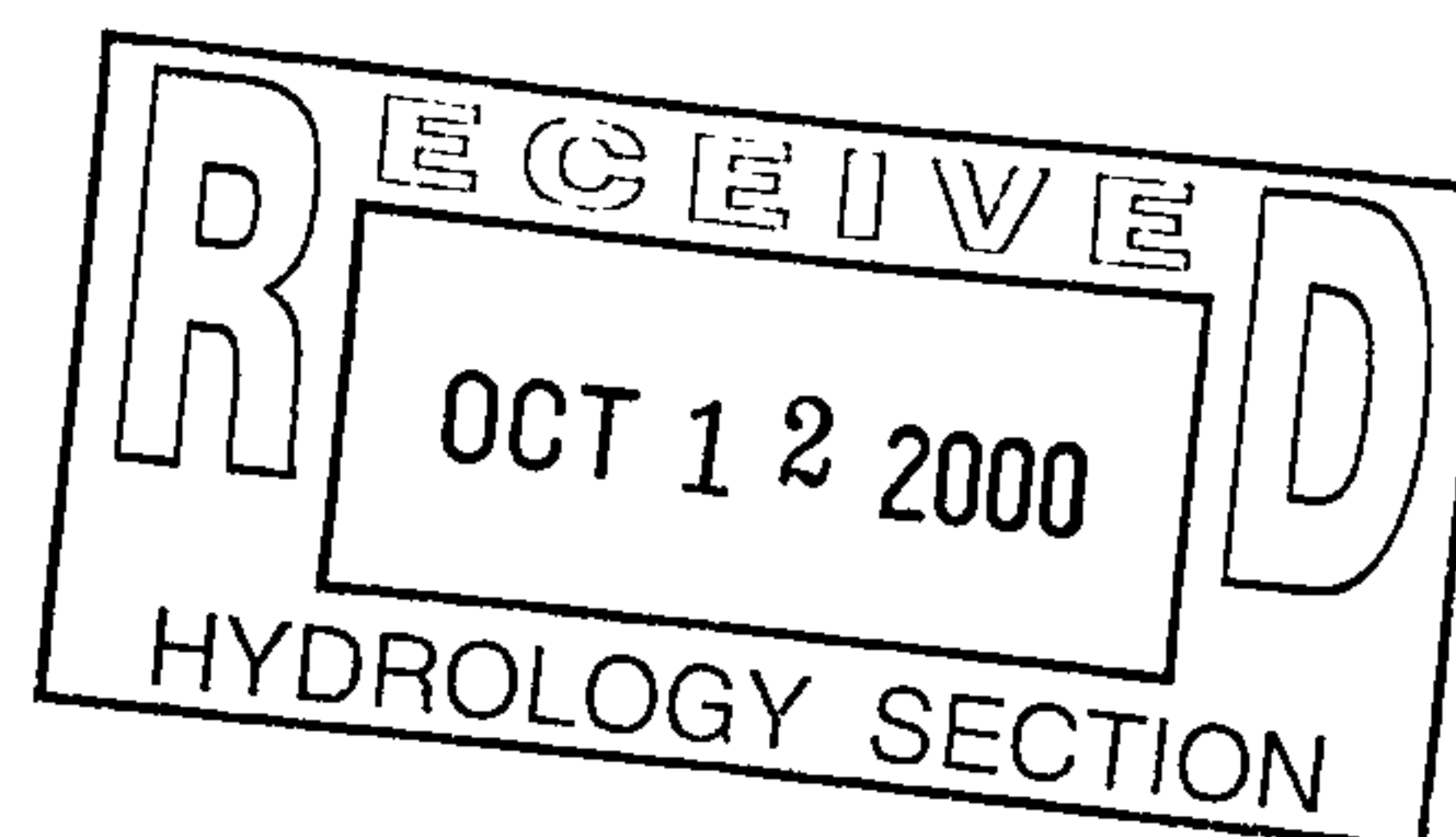
Since the original plan was approved, the site layout has been revised as part of the planning process, primarily in the parking area. This resubmittal updates our plan to match the final site plan. No changes to the calculations were required. No change was made to the overall drainage concept. No changes were made to the drainage structures detail sheet.

Please don't hesitate to call me at 266-3444 or Chris Weiss at 281-1800 with any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bryan J. Bobrick', is written over the typed name and company information.

Bryan J. Bobrick  
C. L. Weiss, Engineering, Inc.





# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 3, 2000

Chris Weiss, P.E.  
C.L. Weiss Engineering  
P.O. Box 97  
Sandia Park, NM 87047

RE: Capital Aspects Office Building (F-22/D021A)

Dear Mr. Weiss,

Based upon the information provided in your December 17, 1999, submittal, the project referred to above is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

A separate permit is required for construction within the city right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit.

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

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

Sincerely,

*Stuart Reeder, P.E.*

Stuart Reeder, P.E.  
Hydrology Division

xc: Pam Lujan, Permits  
Whitney Reiersen  
✓ file



# ***City of Albuquerque***

## **PUBLIC WORKS DEPARTMENT**

February 2, 2000

**INTEROFFICE CORRESPONDENCE**

**HYDROLOGY DIVISION**

**TO:** Desiderio Salas, Street Maintenance Division

**FROM:** Stuart Reeder, PE, Hydrology Div., PWD *SR*

**SUBJECT:** Capital Aspects Office Building (F-22/D021A)

---

Transmitted herewith is a copy of the approved drainage plan for the referenced project incorporating the SO 19 design. This plan is being submitted to you for permitting and inspection.

Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed off SO 19 is required by this office for Certificate of Occupancy release; therefore your expeditious processing of this plan will be greatly appreciated and will avoid any unnecessary delay in the release of Certificate of Occupancy.

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

w/attachment

*✓*xc: file

## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Capital Aspects Office Building ZONE ATLAS / DRNG. FILE #: F-22/0021 A  
LEGAL DESCRIPTION: Tract H-2, New Holiday Park Subdivision, Albuquerque, ~~San Juan~~ New Mexico  
CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047

PHONE: 281-1800

OWNER: \_\_\_\_\_

CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

ARCHITECT: In-Site Architecture and Development

CONTACT: Knight Seavey

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PHONE: 858-0100

SURVEYOR: Precision Surveys, Inc..

CONTACT: Larry Medrano

ADDRESS: \_\_\_\_\_

PHONE: 505-839-0569

CONTRACTOR FIRM: \_\_\_\_\_

CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

### PRE-DESIGN MEETING:

☐ YES

☐ NO

☐ COPY OF CONFERENCE RECAP  
SHEET PROVIDED

DRB NO. \_\_\_\_\_

EPC NO. \_\_\_\_\_

PROJ. NO. \_\_\_\_\_

### TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

☒ DRAINAGE PLAN

☐ CONCEPTUAL GRADING & DRAINAGE PLAN

☒ GRADING PLAN

☐ EROSION CONTROL PLAN

☐ ENGINEER'S CERTIFICATION

### CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT

☐ PRELIMINARY PLAT

☐ SITE DEVELOPMENT PLAN

☐ FINAL PLAT

☒ BUILDING PERMIT

☐ FOUNDATION PERMIT

☐ CERT. OF OCCUPANCY

☐ ROUGH GRADING PERMIT

☐ GRADING / PAVING PERMIT

☒ OTHER S.O. 19

DATE SUBMITTED: Friday, December 17, 1999

BY: C.L. Weiss Engineering, Inc.





*Springer - Montgomery*

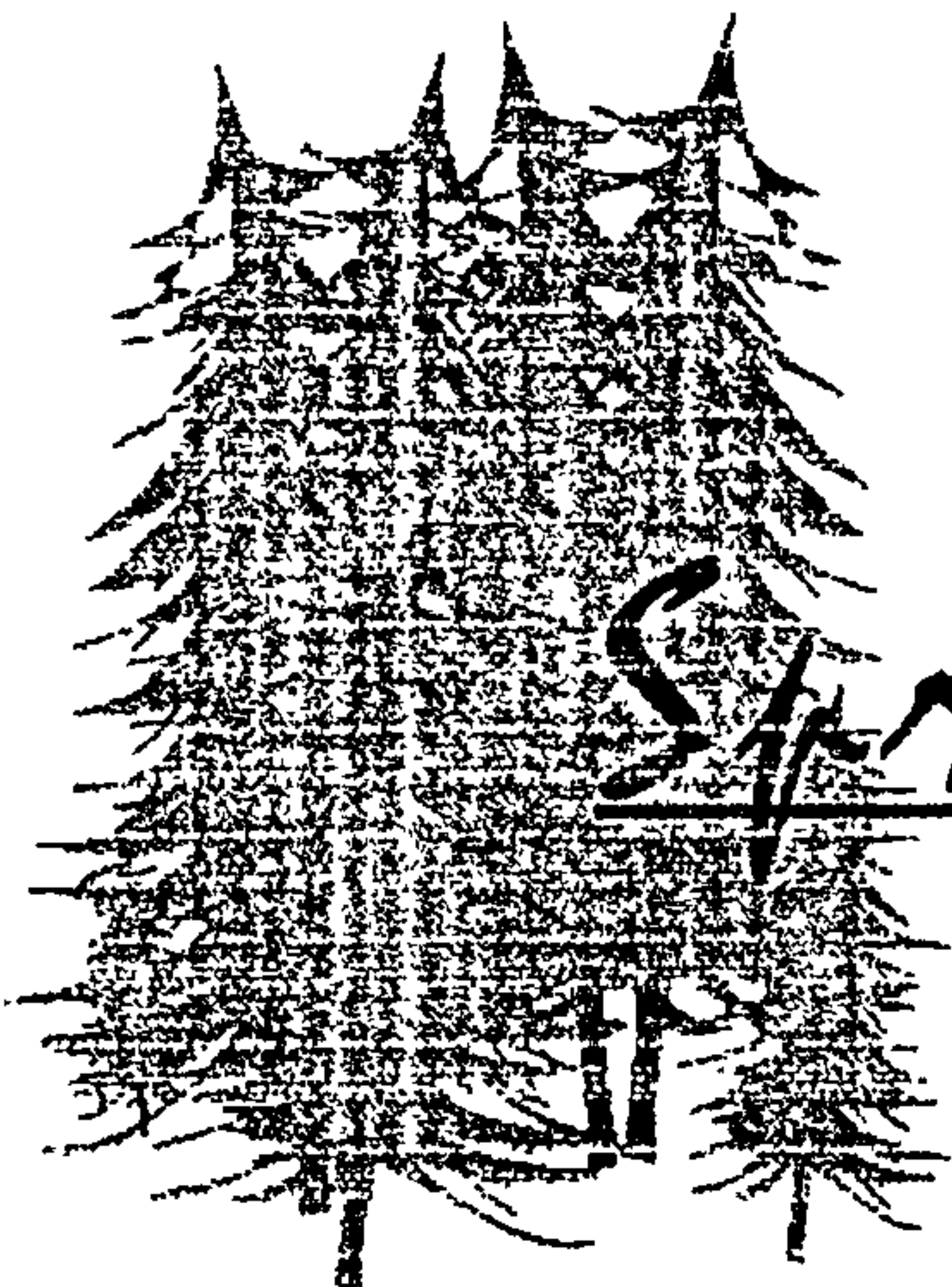
A L B U Q U E R Q U E

- Background
- Basin Analysis / Calculations
- Drainage / Grading Plan



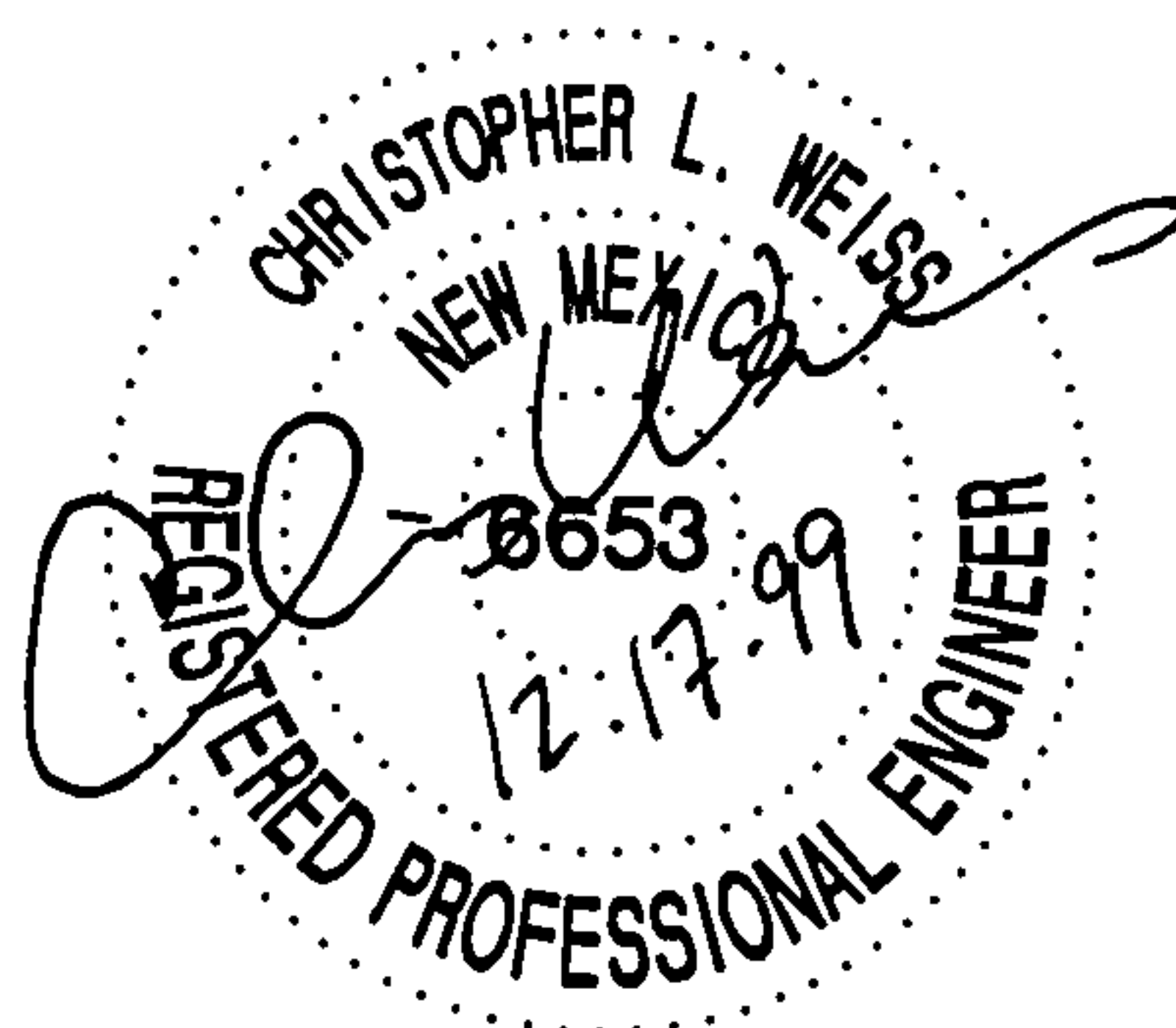
Drainage Supplement

October 1999  
C. L. Weiss Engineering, Inc.



*Springer - Montgomery*

A L B U Q U E R Q U E



C.L. Weiss Engineering, Inc P.O. Box 97 Sandia Park, NM 87047  
Tele/Fax - (505) 281-1800 E-Mail - clweiss@lex.net



October 1999  
C. L. Weiss Engineering, Inc.

# Background

## Existing Site

The purpose of this drainage supplement is to analyze the effect of developing the final portion of the National Self Storage tract, located adjacent to Montgomery Blvd. NE., between Jamaica Dr. and Cairo Dr. NE. This development will be known as the Springer-Montgomery site (S-M). The proposed development will include an office building, with associated parking and landscaping improvements.

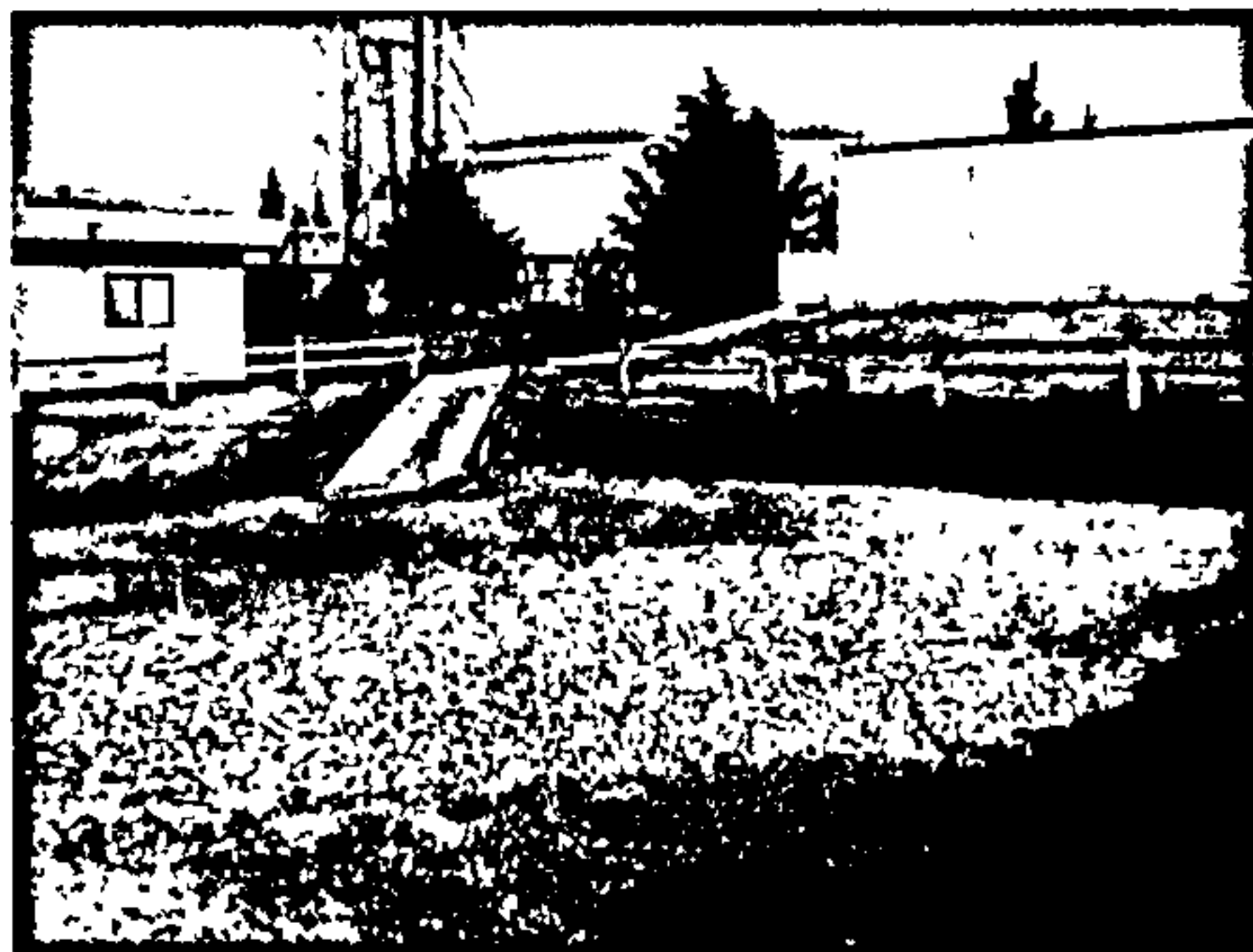


The overall 4 Ac. tract has been divided into two uses - the majority of the site (Tract H-1) has been developed for self storage units. The remaining tract (Tract H-2) is largely open, with only an access drive along the south side and a detention pond occupying the SW corner of the tract. The detention pond serves both tracts, as referenced by the Drainage Study prepared by Espy, Huston & Assoc., Inc (August, 1984)

General site topography consists of a constant slope to the west, with grades directing flows into the detention pond



The overall 4 Ac tract is isolated from off-site flows. Flows affecting the S-M site are all from the self storage area, with a small portion directed into the site from the east access drive, and the rest entering the site at the detention pond rundown.





## Proposed Site

The proposed use for the S-M site will require the removal of the detention pond located at the SW corner. Flows from the self storage area will continue to discharge along the west side of the lot, but through an underground culvert, outletting through sidewalk drains onto Montgomery Blvd.



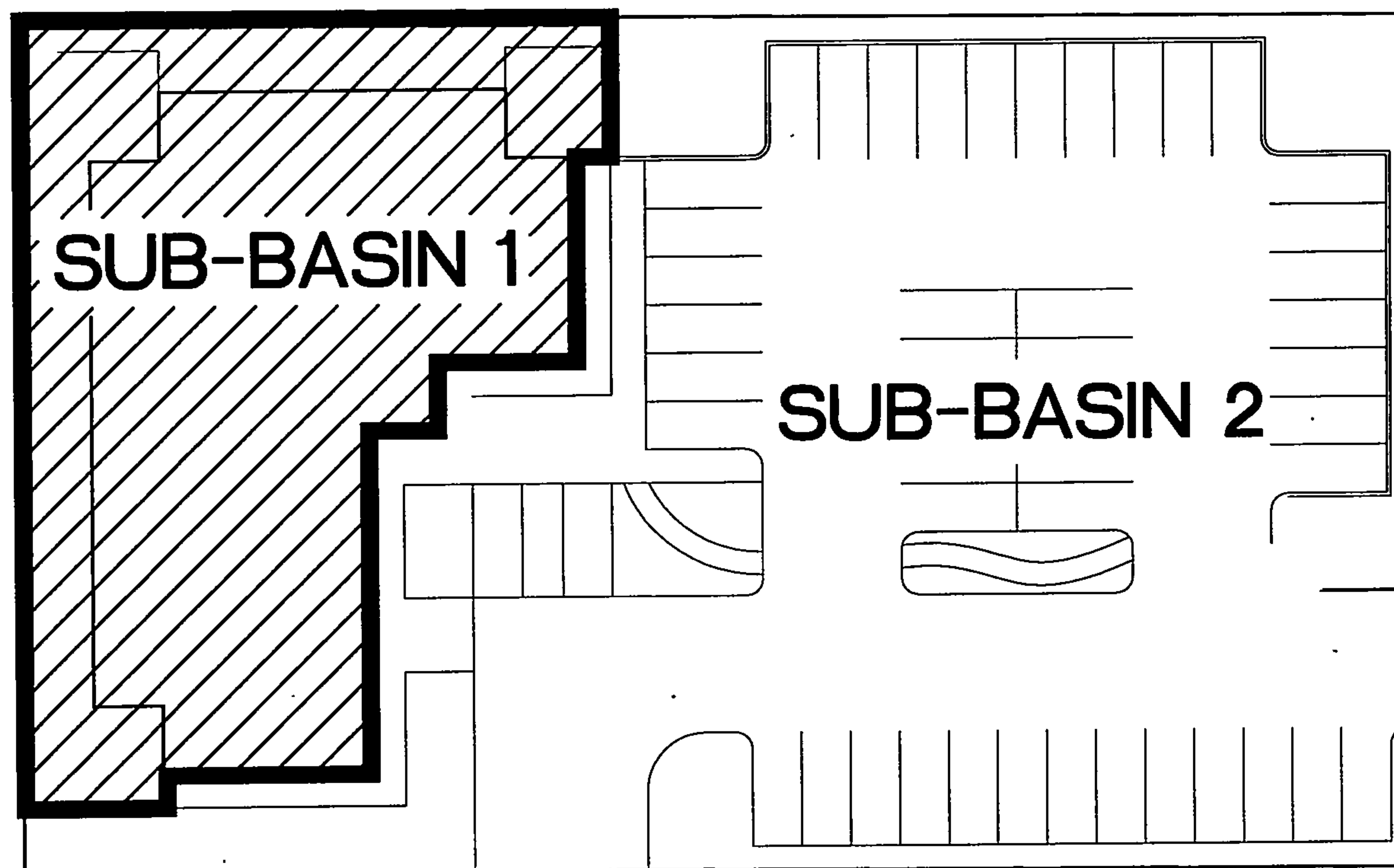
## Downstream capacity

The removal of the detention pond can be justified for the following reasons:

- Upstream flows within Montgomery are intercepted at the Embudito Channel crossing, immediately upstream from the site, allowing for additional runoff capacity within the street section.
- The site is located within Basin 3, identified by the AMDS as 13 sq mi. The 4 Ac. site encompassing the self storage tract and the S-M tract represents less than 0.05% of the overall basin, which represents an insignificant infill area contributing to the total basin flows.
- Referencing the original Espey Huston & Assoc, Inc. report, free discharge of the 4 Ac site will generate 19 cfs, an increase of 13.6 cfs presently being released by the detention pond. Data from the AMDS Analysis Point 202 listed the 100 yr. peak flow of 148 cfs, overland flow of 98 cfs, flow depth of 0.59' (Page 3C-1, Vol III). Removing the detention pond will amount to a 9% increase in the peak flow. Assigning the entire increase in runoff to one side of the street, using a street slope of 2.5%, the flow depth increases 0.05', to 0.64', which will have a negligible effect on downstream facilities (Mannings Eq., where  $n = 0.017$ ).
- Subsequent to the preparation of the AMDS, storm sewer improvements have been completed at the Morris St intersection which have diverted Montgomery flows directly into the Bear Channel, which, with other AMDS improvements, has reduced the flooding in this area.
- There is no flooding in the site area (see FEMA flood map). The nearest flood zone which this site would discharge to is located approximately 2 miles downstream in the area of the Wyoming Blvd intersection. The Albuquerque Master Drainage Study (AMDS) identifies the beginning of the flood zone as AP 202.
- A recent drainage study prepared for the Holiday Breeze Subdivision (F22/D-36), dated January 29, 1999, located immediately downstream of the site, has been approved for free discharge onto Montgomery Blvd. for many of the above reasons. The area of the referenced subdivision is also 4 Ac.



15.0 CFS  
OFF-SITE FLOWS  
ENTER PROPERTY  
AT EXISTING  
OPENING IN WALL  
THIS CORNER



1.3 CFS  
OFF-SITE FLOWS  
ENTER PROPERTY  
WITHIN EXISTING  
DRAINAGE EASEMENT

# ON-SITE SUB-BASIN KEY

dg\_base.dwg 12/08/99 11:29:25

N.T.S.



**C.L. WEISS ENGINEERING, INC.**

POST OFFICE BOX 97 • SANDIA PARK, N.M. • 87047 - (505) 281-1800  
1100 ALVARADO DR. NE • ALBUQUERQUE, N.M. • 87110 - (505) 266-3444



TOTAL FLOWS TO WEST STORM SEWER SYSTEM

Off-site Sub-basin	=	15.0 cfs
On-site Sub-basin 1 Flows	=	1.2 cfs
TOTAL	=	16.1 cfs

Per the included supplemental information, an 18" dia. PVC culvert with a slope of 0.0650'/' will carry 34.8 cfs (full flow capacity). After discharging from the pipe into the outlet structure, the flows will pass through five 2' wide (clear opening) sidewalk culverts (checking for inlet capacity using the orifice equation (see below) each 2' wide sidewalk culvert will accept 3.4 cfs at a head of 0.5'. Total capacity for five grates = 17.0 cfs > 16.1 required. OK. See supplemental calculations for additional information.

ORIFACE EQUATION FOR SINGLE 'D' GRATE

using orifice equation  $Q=CA * (2gh)^{0.5}$

C	=	0.6
A	=	4.80
g	=	32.2
h	=	0.6
Q	=	17.90

Note: Area (A) at left, is based on the open area of a single COA Albuquerque Grate. Based on calculations shown, a single inlet with a head of 0.6' will accept 16.3 cfs. In order to provide for clogging conditions, it must be assumed that the grate will be 50% restricted or 8.9 cfs. Therefore, two grates with 50% clogging will accept 17.9 cfs > 15.0 cfs required.

ORIFACE EQUATION FOR SINGLE SIDEWALK CULVERT

using orifice equation  $Q=CA * (2gh)^{0.5}$

C	=	0.6
A	=	1.00
g	=	32.2
h	=	0.5
Q	=	3.40

Note: Area (A) at left, is based on the open area of a 2' wide x 0.5' high sidewalk culvert. Based on calculations shown, a single inlet with a head of 0.5' will accept 3.4 cfs.

**CALCULATIONS**

Calculations are based on the Drainage Design Criteria for Bernalillo County Section 22.2, DPM, Vol 2, dated Jan., 1993

**ON-SITE**AREA OF SITE: 35989 SF = 0.8262 Ac.**DEVELOPED FLOWS:**

On-Site Developed Land Condition

Area a	=	0	SF
Area b	=	6789	SF
Area c	=	0	SF
Area d	=	29200	SF
Total Area	=	35989	SF

**EXCESS PRECIPITATION:**

Precip. Zone	<span style="border: 1px solid black; padding: 2px;">4</span>
Ea	= 0.80
Eb	= 1.08
Ec	= 1.46
Ed	= 2.64

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$$

Developed E	=	2.35 in.
On-Site Volume of Runoff: V360	=	E*A / 12
Developed V360	=	7035 CF

On-Site Peak Discharge Rate:  $Q_p = Q_{pa}Aa + Q_{pb}Ab + Q_{pc}Ac + Q_{pd}Ad / 43,560$ 

For Precipitation Zone 4

Qpa	=	2.20	Qpc	=	3.73
Qpb	=	2.92	Qpd	=	5.25

Developed Qp	=	4.0	CFS
--------------	---	-----	-----

**OFF-SITE SUB-BASIN DRAINING THROUGH EXISTING PRIVATE DRAINAGE / ACCESS EASEMENT**Area of sub-basin flows = 11160 SF = 0.3 Ac.

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	=	2.56 in.
------------	---	----------

Sub-basin Volume of Runoff (see formula above)

V360	=	2383	CF
------	---	------	----

Sub-basin Peak Discharge Rate: (see formula above)

Qp	=	1.3	cfs
----	---	-----	-----

TREATMENT	
A =	0%
B =	5%
C =	0%
D =	95%

**OFF-SITE SUB-BASIN DRAINING TO WEST STORM SEWER SYSTEM**Area of sub-basin flows = 127091 SF = 2.9 Ac.

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	=	2.56 in.
------------	---	----------

Sub-basin Volume of Runoff (see formula above)

V360	=	27134	CF
------	---	-------	----

Sub-basin Peak Discharge Rate: (see formula above)

Qp	=	15.0	cfs
----	---	------	-----

TREATMENT	
A =	0%
B =	5%
C =	0%
D =	95%

**ON-SITE SUB-BASIN 1 DRAINING TO WEST STORM SEWER SYSTEM**Area of sub-basin flows = 10590 SF = 0.2 Ac.

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	=	2.33 in.
------------	---	----------

Sub-basin Volume of Runoff (see formula above)

V360	=	2054	CF
------	---	------	----

Sub-basin Peak Discharge Rate: (see formula above)

Qp	=	1.2	cfs
----	---	-----	-----

TREATMENT	
A =	0%
B =	20%
C =	0%
D =	80%

The remaining on-site sub-basin (Sub-basin 2, Q = 2.8 cfs) will discharge flows directly to Montgomery Blvd. At the access drive.

# Hydraflow Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1	West line	16.10	18 c	130.0	79.50	88.00	6.538	83.50	89.43	1.34	End
Project File: New.stm		I-D-F File: New.IDF			Total No. Lines: 1			Run Date: 12-14-1999			
NOTES: c = circular; e = elliptical; b = box; Return period = 100 Yrs.; * Indicates surcharge condition.											

# Hydraflow Storm Sewer Tabulation

Station		Len  (ft)	Dmg Area		Rnoff coeff  (C)	Area x C		Tc		Rain (I)  (in/hr)	Total flow  (cfs)	Cap full  (cfs)	Vel  (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr  (ac)	Total  (ac)		Incr  (min)	Syst  (min)	Size  (in)	Slope  (%)					Up  (ft)	Dn  (ft)	Up  (ft)	Dn  (ft)	Up  (ft)	Dn  (ft)			
1	End	130.0	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	16.10	34.91	9.19	18	6.54	88.00	79.50	89.43	83.50	83.50	93.00	West line
Project File: New.stm									I-D-F File: New.IDF							Total number of lines: 1				Run Date: 12-14-1999		
NOTES: Intensity = 0.00 / (Tc + 0.00) ^ 0.00; Return period = 100 Yrs. ; Initial tailwater elevation = 83.50 (ft)																						

# Storm Sewer Profile

Proj. file: New.stm

Elev. (ft)

105.0

99.0

93.0

87.0

81.0

75.0

0

25

50

75

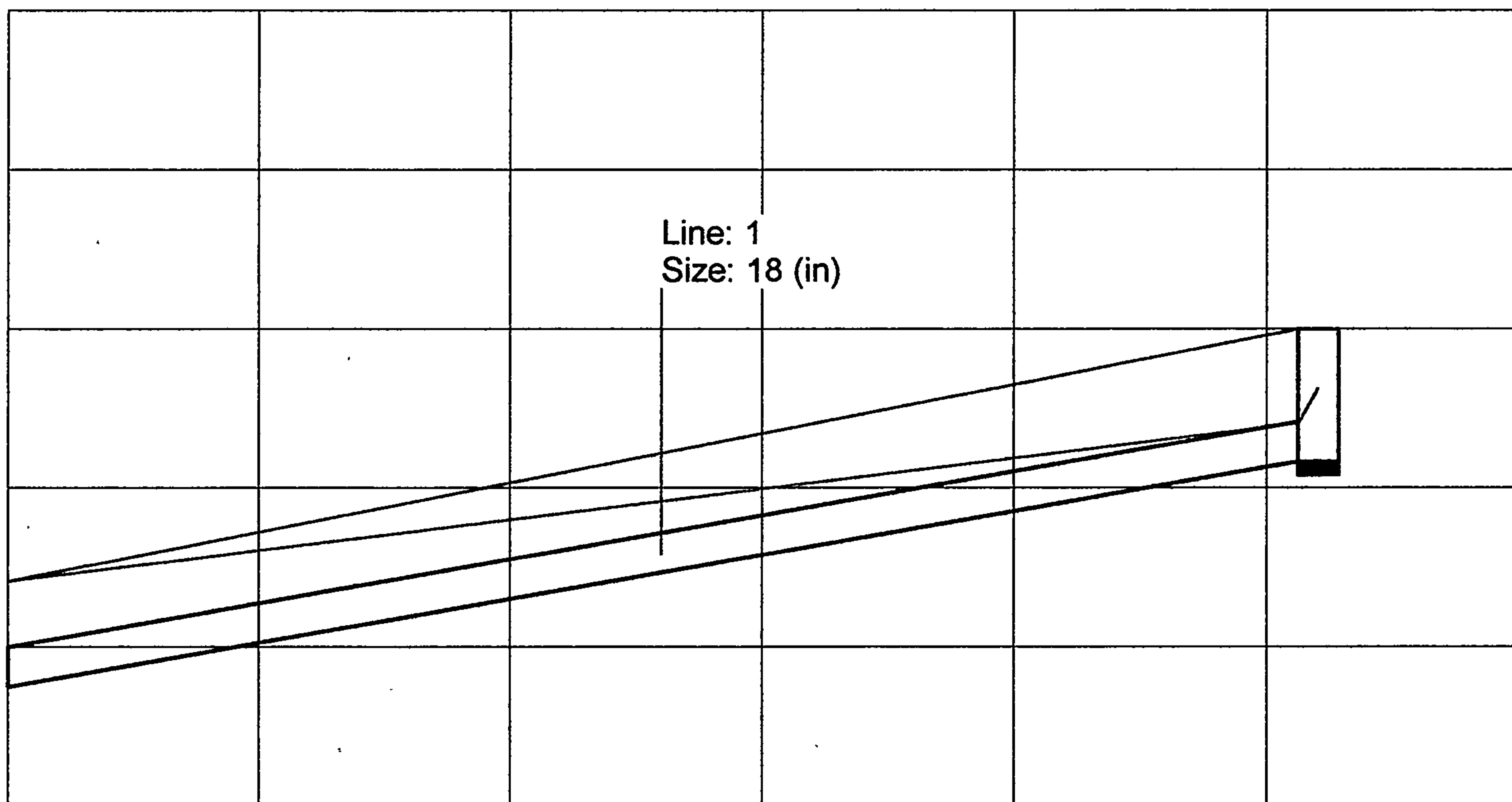
100

125

150

Line: 1  
Size: 18 (in)

Reach (ft)

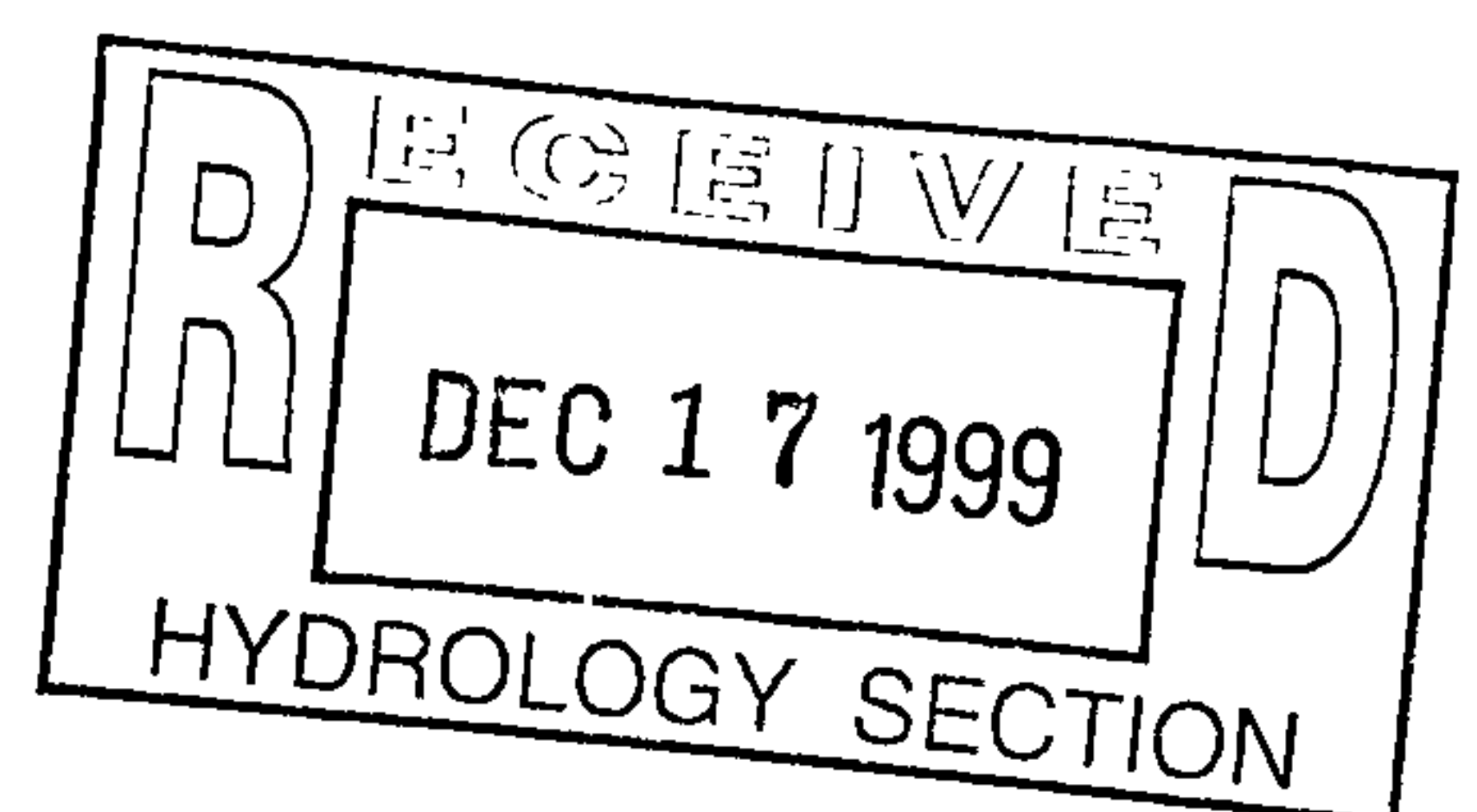






# Springer - Montgomery

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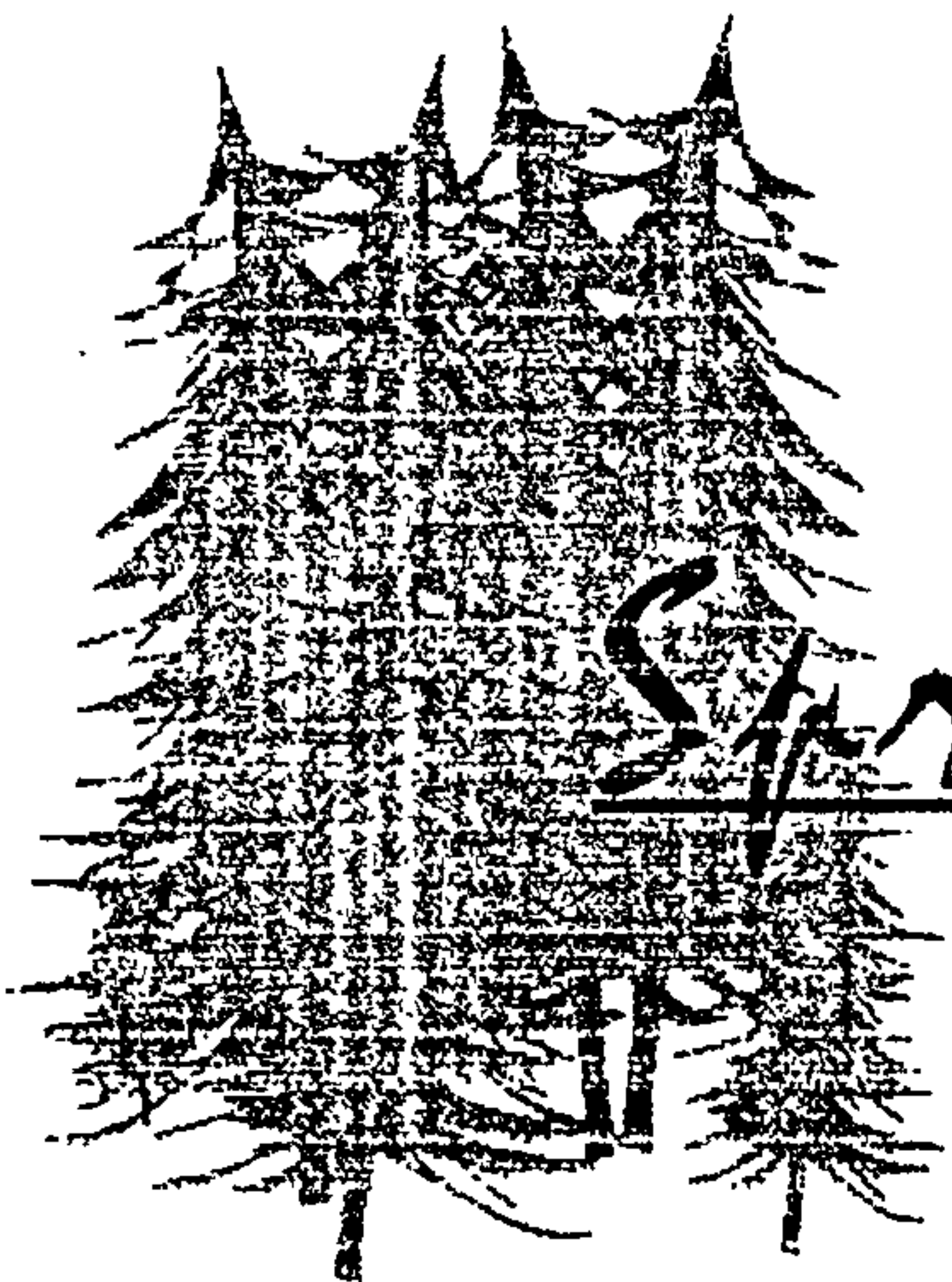


- Background
- Basin Analysis / Calculations
- Drainage / Grading Plan



## Drainage Supplement

October 1999  
C. L. Weiss Engineering, Inc.



*Springer - Montgomery*

A L B U Q U E R Q U E



C.L. Weiss Engineering, Inc P.O. Box 97 Sandia Park, NM 87047  
Tele/Fax - (505) 281-1800 E-Mail - clweiss@lex.net



October 1999  
C. L. Weiss Engineering, Inc.



# Background

## Existing Site

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## Proposed Site

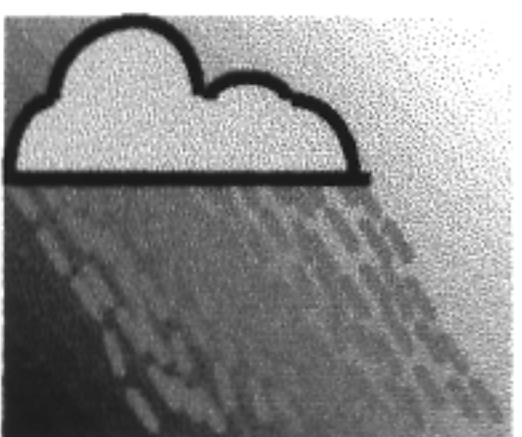
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## Downstream capacity

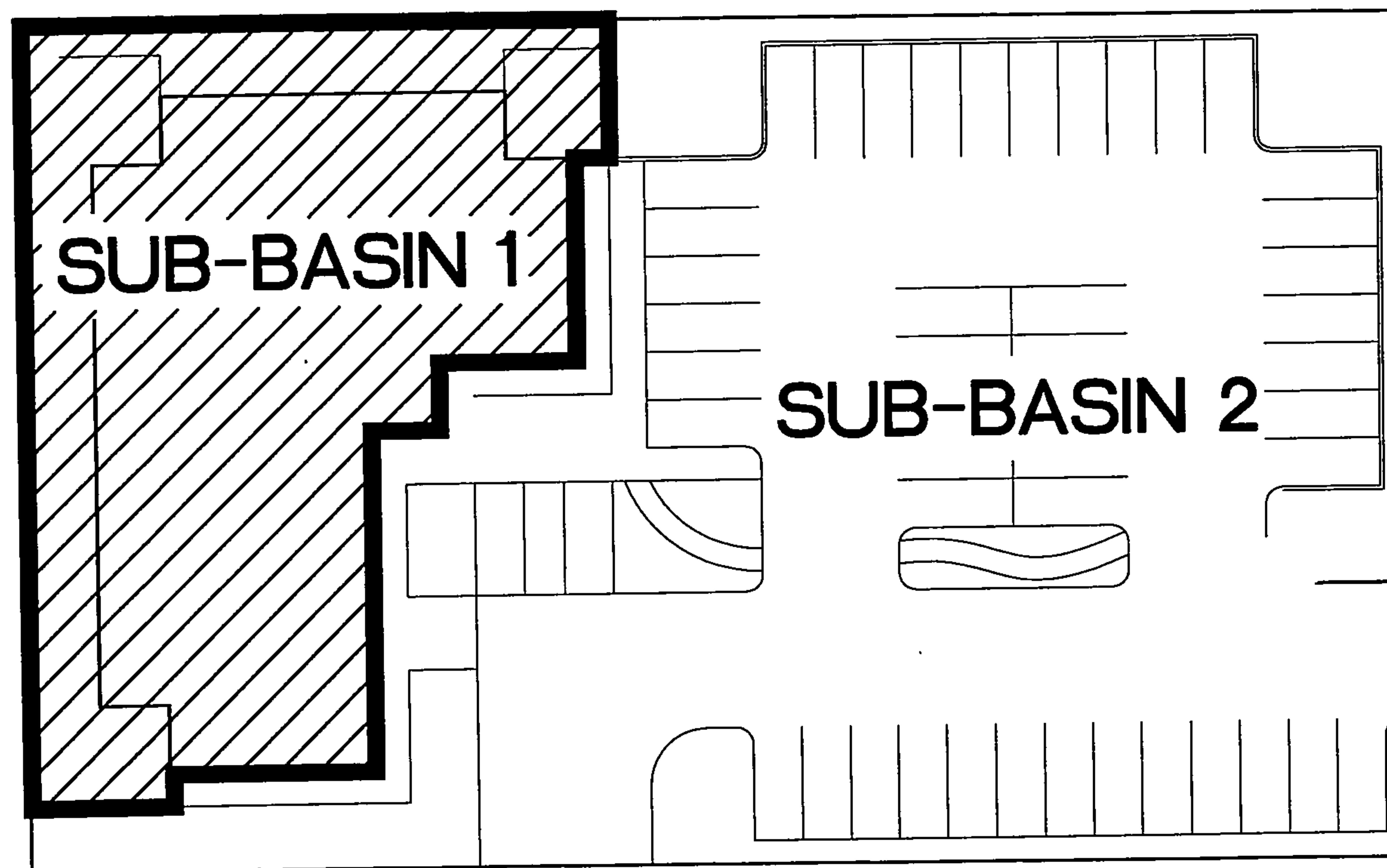
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- Subsequent to the preparation of the AMDS, storm sewer improvements have been completed at the Morris St intersection which have diverted Montgomery flows directly into the Bear Channel, which, with other AMDS improvements, has reduced the flooding in this area.
- There is no flooding in the site area (see FEMA flood map). The nearest flood zone which this site would discharge to is located approximately 2 miles downstream in the area of the Wyoming Blvd intersection. The Albuquerque Master Drainage Study (AMDS) identifies the beginning of the flood zone as AP 202.
- A recent drainage study prepared for the Holiday Breeze Subdivision (F22/D-36), dated January 29, 1999, located immediately downstream of the site, has been approved for free discharge onto Montgomery Blvd. for many of the above reasons. The area of the referenced subdivision is also 4 Ac.





15.0 CFS  
OFF-SITE FLOWS  
ENTER PROPERTY  
AT EXISTING  
OPENING IN WALL  
THIS CORNER



**SUB-BASIN 1**

**SUB-BASIN 2**

1.3 CFS  
OFF-SITE FLOWS  
ENTER PROPERTY  
WITHIN EXISTING  
DRAINAGE EASEMENT

# ON-SITE SUB-BASIN KEY

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N.T.S.



**C.L. WEISS ENGINEERING, INC.**

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**CALCULATIONS:**

Calculations are based on the Drainage Design Criteria for Bernalillo County Section 22.2, DPM, Vol 2, dated Jan., 1993

**ON-SITE**AREA OF SITE: 35989 SF = 0.8262 Ac.**DEVELOPED FLOWS:**

## On-Site Developed Land Condition

Area a	=	0	SF
Area b	=	6789	SF
Area c	=	0	SF
Area d	=	29200	SF
Total Area	=	35989	SF

**EXCESS PRECIPITATION:**

Precip. Zone	<span style="border: 1px solid black; padding: 2px;">4</span>
Ea	= 0.80
Eb	= 1.08
Ec	= 1.46
Ed	= 2.64

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$$

Developed E	=	2.35 in.
On-Site Volume of Runoff: V360	=	$E \cdot A / 12$
Developed V360	=	7035 CF

On-Site Peak Discharge Rate:  $Qp = QpaAa + QpbAb + QpcAc + QpdAd / 43.560$ 

For Precipitation Zone 4

Qpa	= 2.20
Qpb	= 2.92

Qpc	= 3.73
Qpd	= 5.25

Developed Qp	=	4.0	CFS
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**OFF-SITE SUB-BASIN - DRAINING THROUGH EXISTING PRIVATE DRAINAGE / ACCESS EASEMENT**

Area of sub-basin flows	=	<span style="border: 1px solid black; padding: 2px;">11160</span> SF	=	<span style="border: 1px solid black; padding: 2px;">0.3</span> Ac.
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The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	=	2.56 in.
------------	---	----------

Sub-basin Volume of Runoff (see formula above)

V360	=	2383	CF
------	---	------	----

Sub-basin Peak Discharge Rate: (see formula above)

Qp	=	1.3	cfs
----	---	-----	-----

TREATMENT	
A	= 0%
B	= 5%
C	= 0%
D	= 95%

**OFF-SITE SUB-BASIN - DRAINING TO WEST STORM SEWER SYSTEM**

Area of sub-basin flows	=	<span style="border: 1px solid black; padding: 2px;">127091</span> SF	=	<span style="border: 1px solid black; padding: 2px;">2.9</span> Ac.
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The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	=	2.56 in.
------------	---	----------

Sub-basin Volume of Runoff (see formula above)

V360	=	27134	CF
------	---	-------	----

Sub-basin Peak Discharge Rate: (see formula above)

Qp	=	15.0	cfs
----	---	------	-----

TREATMENT	
A	= 0%
B	= 5%
C	= 0%
D	= 95%

**ON-SITE SUB-BASIN 1 - DRAINING TO WEST STORM SEWER SYSTEM**

Area of sub-basin flows	=	<span style="border: 1px solid black; padding: 2px;">10590</span> SF	=	<span style="border: 1px solid black; padding: 2px;">0.2</span> Ac.
-------------------------	---	--	---	---

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	=	2.33 in.
------------	---	----------

Sub-basin Volume of Runoff (see formula above)

V360	=	2054	CF
------	---	------	----

Sub-basin Peak Discharge Rate: (see formula above)

Qp	=	1.2	cfs
----	---	-----	-----

TREATMENT	
A	= 0%
B	= 20%
C	= 0%
D	= 80%

The remaining on-site sub-basin (Sub-basin 2, Q = 2.8 cfs) will discharge flows directly to Montgomery Blvd. At the access drive.

**CALCULATIONS:**

Calculations are based on the Drainage Design Criteria for Bernalillo County Section 22.2, DPM, Vol 2, dated Jan., 1993

**ON-SITE**

AREA OF SITE: 35989 SF = 0.8262 Ac.

**DEVELOPED FLOWS:**

## On-Site Developed Land Condition

Area a	0	SF
Area b	6789	SF
Area c	0	SF
Area d	29200	SF
Total Area	35989	SF

**EXCESS PRECIPITATION:**

Precip. Zone	4
Ea	0.80
Eb	1.08
Ec	1.46
Ed	2.64

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$$

Developed E	2.35 in.
On-Site Volume of Runoff: V360	$E \cdot A / 12$
Developed V360	7035 CF

On-Site Peak Discharge Rate:  $Qp = QpaAa + QpbAb + QpcAc + QpdAd / 43.560$ 

For Precipitation Zone	4		
Qpa	2.20	Qpc	3.73
Qpb	2.92	Qpd	5.25

Developed Qp	4.0 CFS
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**OFF-SITE SUB-BASIN - DRAINING THROUGH EXISTING PRIVATE DRAINAGE / ACCESS EASEMENT**

Area of sub-basin flows	11160 SF	=	0.3 Ac.
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The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	2.56 in.
------------	----------

Sub-basin Volume of Runoff (see formula above)

V360	2383 CF
------	---------

Sub-basin Peak Discharge Rate: (see formula above)

Qp	1.3 cfs
----	---------

TREATMENT	
A	0%
B	5%
C	0%
D	95%

**OFF-SITE SUB-BASIN - DRAINING TO WEST STORM SEWER SYSTEM**

Area of sub-basin flows	127091 SF	=	2.9 Ac
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The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	2.56 in.
------------	----------

Sub-basin Volume of Runoff (see formula above)

V360	27134 CF
------	----------

Sub-basin Peak Discharge Rate: (see formula above)

Qp	15.0 cfs
----	----------

TREATMENT	
A	0%
B	5%
C	0%
D	95%

**ON-SITE SUB-BASIN 1 - DRAINING TO WEST STORM SEWER SYSTEM**

Area of sub-basin flows	10590 SF	=	0.2 Ac
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The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E	2.33 in.
------------	----------

Sub-basin Volume of Runoff (see formula above)

V360	2054 CF
------	---------

Sub-basin Peak Discharge Rate: (see formula above)

Qp	1.2 cfs
----	---------

TREATMENT	
A	0%
B	20%
C	0%
D	80%

The remaining on-site sub-basin (Sub-basin 2, Q = 2.8 cfs) will discharge flows directly to Montgomery Blvd. At the access drive.

# Hydraflow Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1	West line	16.10	18 c	130.0	79.50	88.00	6.538	83.50	89.43	1.34	End
Project File: New.stm			I-D-F File: New.IDF			Total No. Lines: 1			Run Date: 12-14-1999		
NOTES: c = circular; e = elliptical; b = box; Return period = 100 Yrs.; * Indicates surcharge condition.											

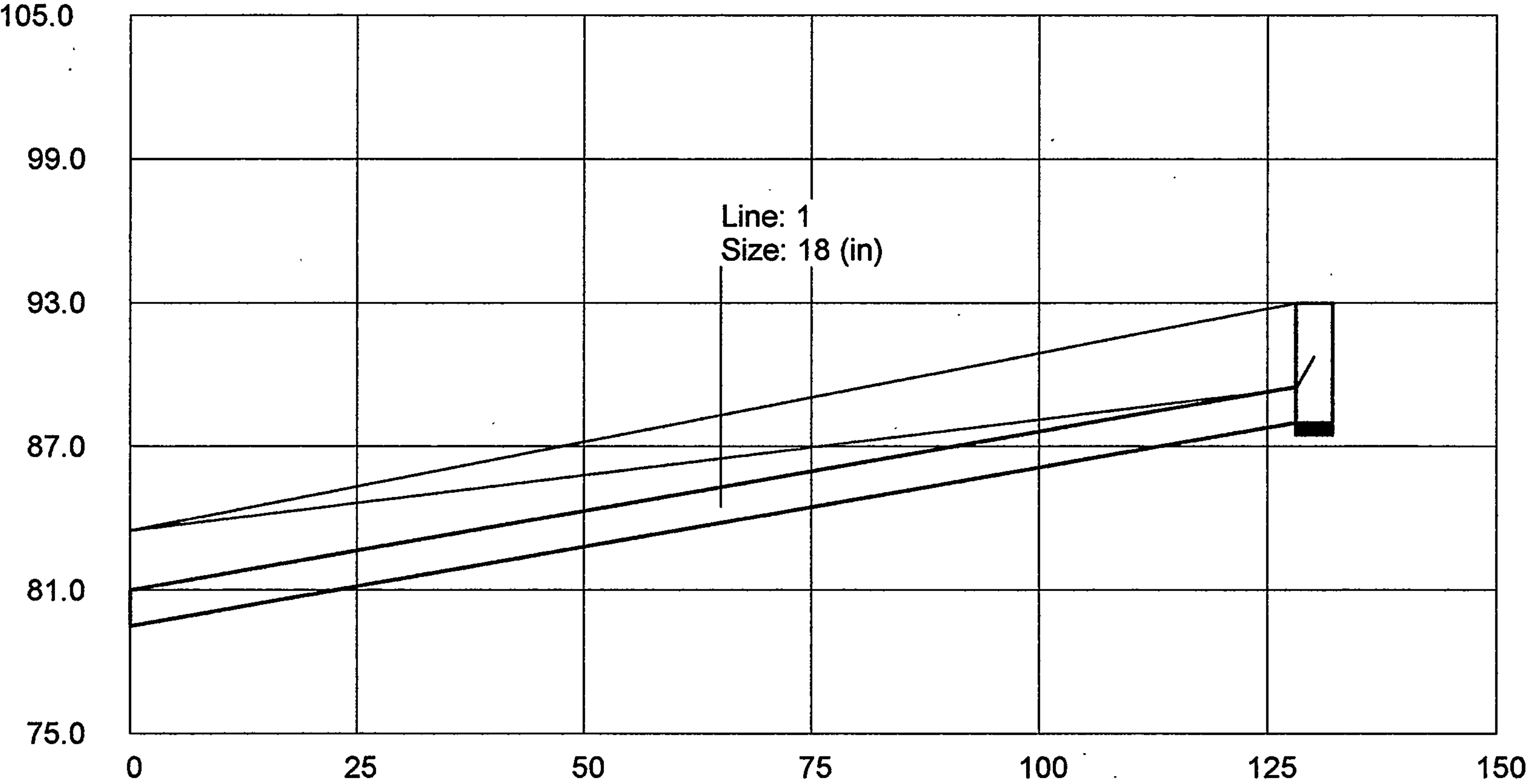
## Hydraflow Storm Sewer Tabulation

Station		Len  (ft)	Dmg Area		Rnoff coeff  (C)	Area x C		Tc		Rain (I)  (in/hr)	Total flow  (cfs)	Cap full  (cfs)	Vel  (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr  (ac)	Total  (ac)		Incr  (min)	Total  (min)	Inlet  (min)	Syst  (min)					Size  (in)	Slope  (%)	Up  (ft)	Dn  (ft)	Up  (ft)	Dn  (ft)	Up  (ft)	Dn  (ft)	
1	End	130.0	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	16.10	34.91	9.19	18	6.54	88.00	79.50	89.43	83.50	83.50	93.00	West line
Project File: New.stm									I-D-F File: New.IDF							Total number of lines: 1				Run Date: 12-14-1999		
NOTES: Intensity = 0.00 / (Tc + 0.00) ^ 0.00; Return period = 100 Yrs. ; Initial tailwater elevation = 83.50 (ft)																						



# Storm Sewer Profile

Elev. (ft)



Line: 1  
Size: 18 (in)

Reach (ft)