



Martin J. Chávez, Mayor

Robert E. Gurulé, Director

May 22, 1997

Jackie McDowell  
McDowell Engineering Inc.  
7200 Valley Forge Place NE  
Albuquerque, New Mexico 87109

RE: SO-19 FOR HOLIDAY INN @ 2020 MENAUL BLVD. NE (H15-D13A) ENGINEER'S  
STAMP DATED 5/9/97

Dear Ms. McDowell:

Based on the information provided on your May 13, 1997, the above referenced site is approved for SO-19.

Please be advised that a separate permit is required for construction within City R/W. A copy of this approval letter must be on hand when applying for the excavation permit.

If I can be of further assistance, please feel free to contact me 924-3986.

C: Andrew Garcia  
Arlene Portillo

File

Sincerely

*Bernie Montoya*  
Bernie J. Montoya CE  
Associate Engineer

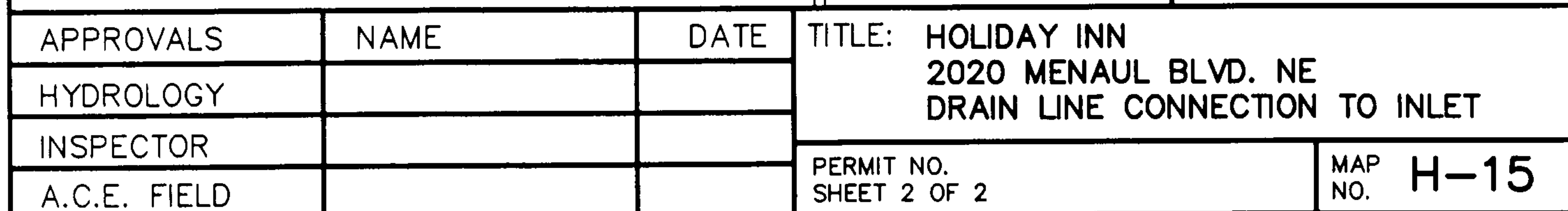
Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



APPROVALS	NAME	DATE	TITLE: HOLIDAY INN 2020 MENAUL BLVD. NE DRAIN LINE CONNECTION TO INLET
HYDROLOGY	<i>B. Montoya</i>	<i>5/22/97</i>	
INSPECTOR			
A.C.E. FIELD			
			PERMIT NO. SHEET 1 OF 2
			MAP NO. <b>H-15</b>

## DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY





# DRAINAGE INFORMATION SHEET

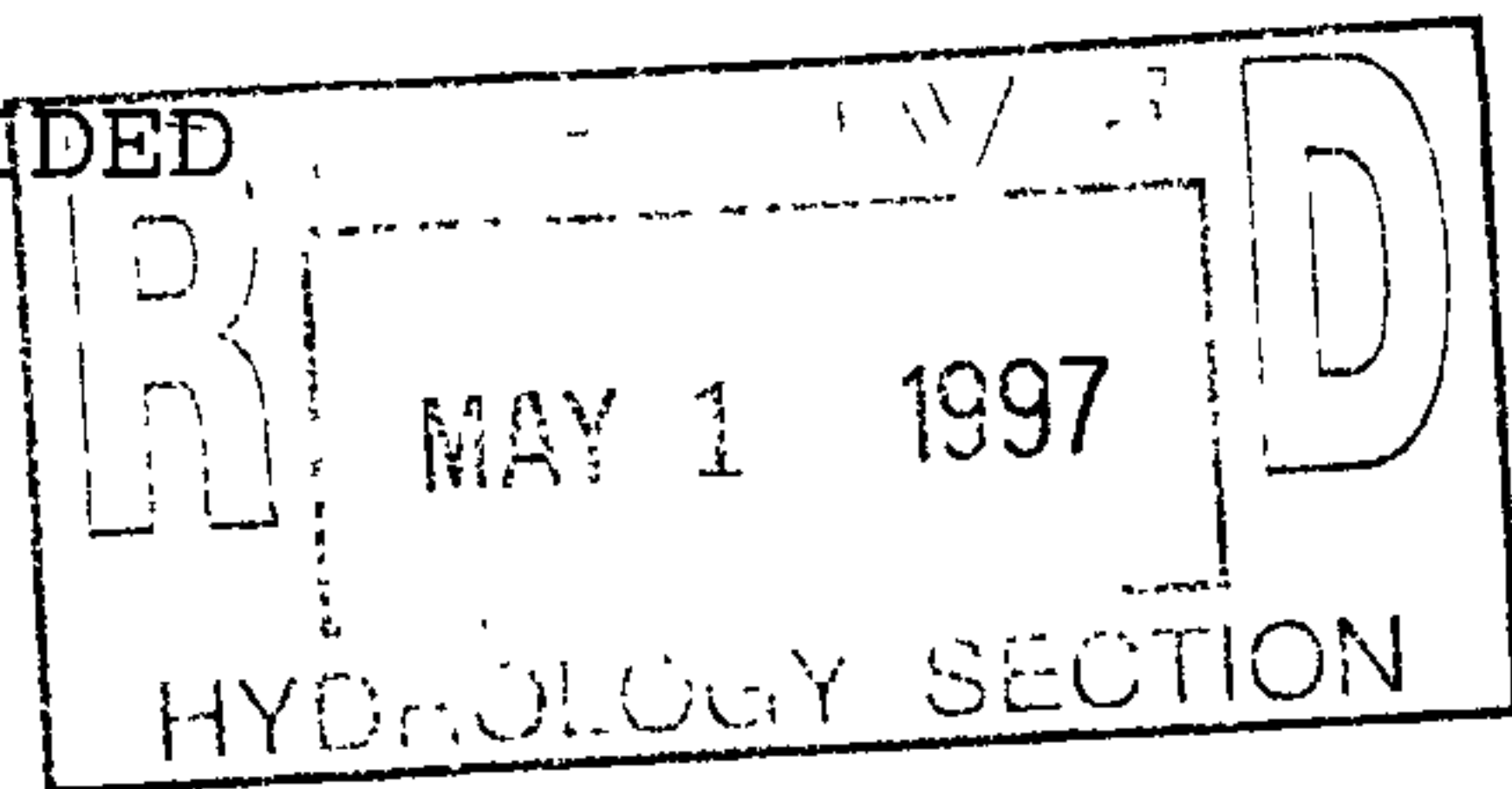
PROJECT TITLE: HOLIDAY INN DRAIN ZONE ATLAS/DRNG. FILE #: H-15 /D13A  
DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_  
LEGAL DESCRIPTION: TRACT C, KOURY ADDITION  
CITY ADDRESS: 2020 MENAUL BLVD. NE  
ENGINEERING FIRM: MCDOWELL ENGINEERING, INC. CONTACT: JACKIE MCDOWELL  
ADDRESS: 7200 VALLEY FORGE PL. NE PHONE: 828-2430  
OWNER: HOLIDAY INN CONTACT: DAVID TARICANI  
ADDRESS: 2020 MENAUL BLVD. NE PHONE: 884-2511  
ARCHITECT: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
SURVEYOR: SOUTHWEST SURVEYING COMPANY CONTACT: DAN GRANEY  
ADDRESS: 333 LOMAS BLVD. NE PHONE: 247-4444  
CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING & DRAIN. PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERTIFICATION  
☒ OTHER SO 19

## PRE-DESIGN MEETING:

☐ YES  
☒ NO  
☐ COPY PROVIDED



DATE SUBMITTED: MAY 12, 1997

BY: JACKIE S. MCDOWELL, P.E.

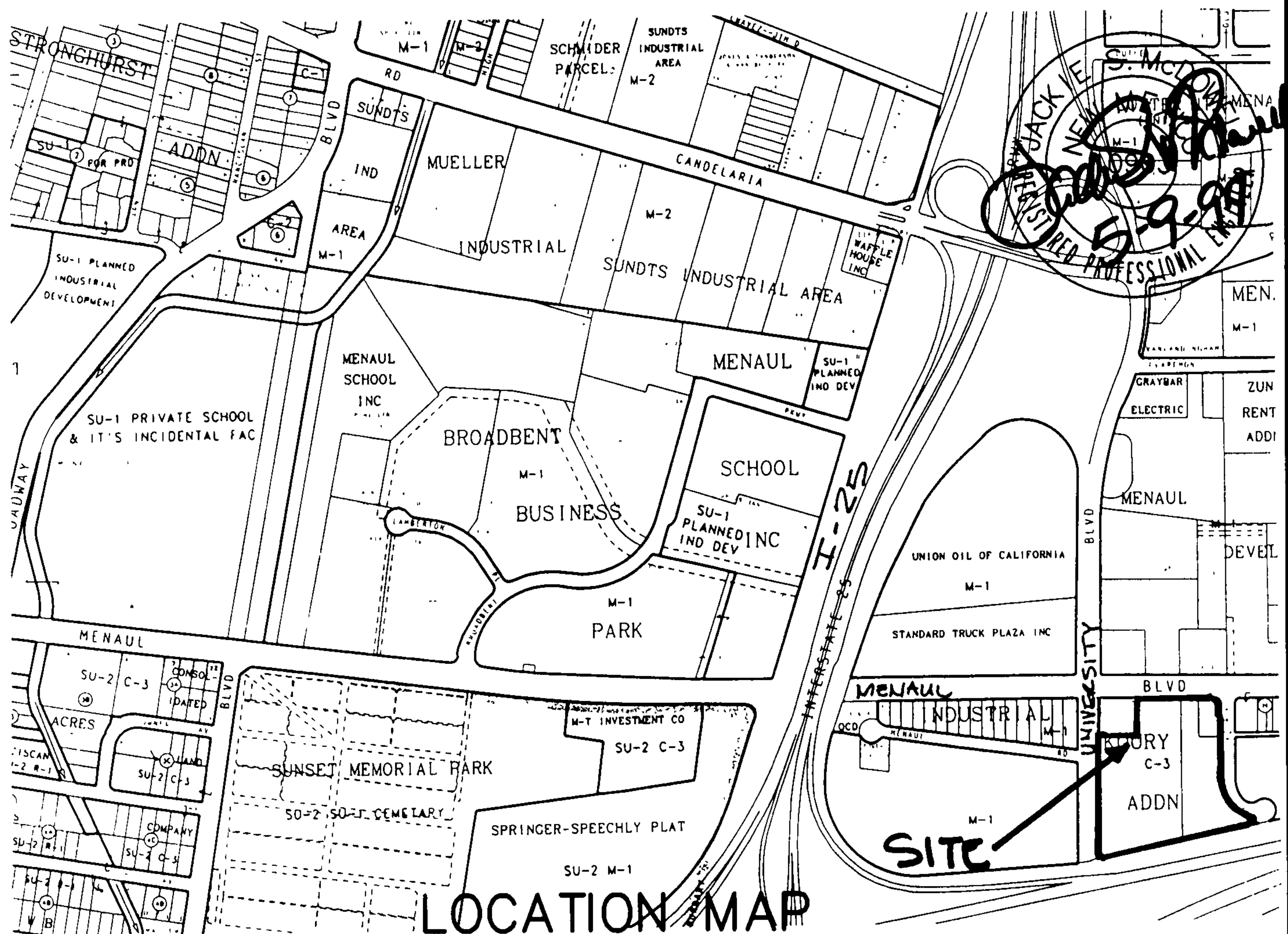
## CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ S.DEV PLAN FOR SUB'D APPROVAL  
☐ S.DEV PLAN FOR BLDG PMT APPR.  
☐ SECTOR PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☐ BUILDING PERMIT APPROVAL  
☐ CERT. OF OCCUPANCY APPROVAL  
☐ GRADING PERMIT APPROVAL  
☐ PAVING PERMIT APPROVAL  
☐ S.A.D. DRAINAGE REPORT  
☐ DRAINAGE REQUIREMENTS  
☒ OTHER SO 19 (SPECIFY)

AS DISCUSSED & COORDINATED  
W/ CARLOS MONTAÑA.

# CITY OF ALBUQUERQUE

## DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



LEGAL DESCRIPTION OF PROPERTY SERVED: Tract C of Koury Addition — Holiday Inn  
BENCH MARK: 450 feet south of the intersection of I-40 and University Blvd. next to the bike path, Standard Brass Tablet stamped "NDC 20-1" set on a concrete post 0.3 feet above the ground.  
Trigonometric Elevation = 5112.20 feet

### NOTICE TO CONTRACTOR

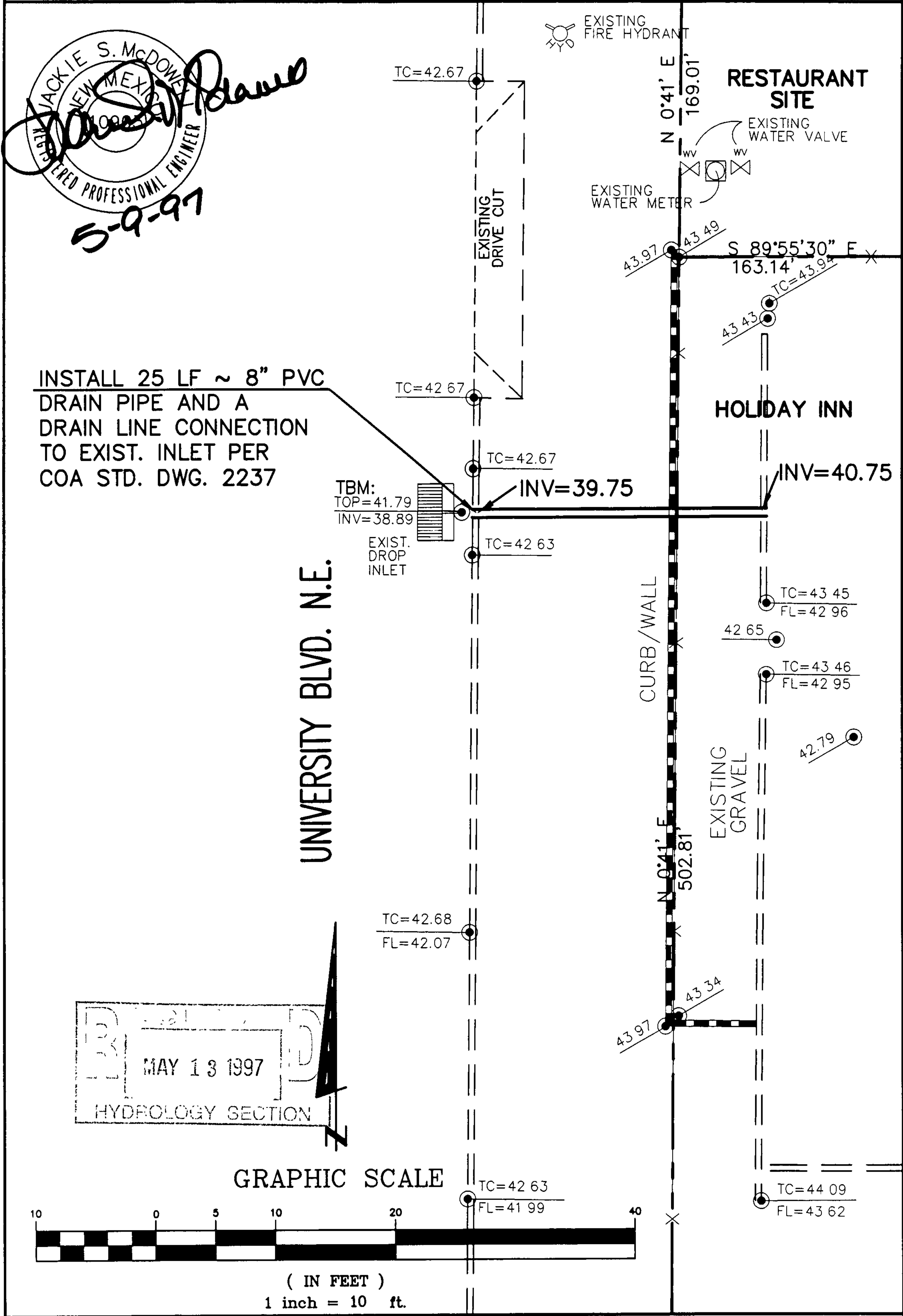
1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specifications for Public Works Construction, 1986 as amended through the latest edition.
3. Two working days prior to any excavation, contractor must contact New Mexico One Call System, 260-1990, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all constructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to \_\_\_\_\_ street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.

APPROVALS	NAME	DATE	TITLE: HOLIDAY INN 2020 MENAUL BLVD. NE DRAIN LINE CONNECTION TO INLET	
HYDROLOGY				
INSPECTOR				
A.C.E. FIELD			PERMIT NO. SHEET 1 OF 2	MAP NO. H-15



CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



APPROVALS	NAME	DATE	TITLE: HOLIDAY INN 2020 MENAUL BLVD. NE DRAIN LINE CONNECTION TO INLET	
HYDROLOGY				
INSPECTOR				
A.C.E. FIELD			PERMIT NO. SHEET 2 OF 2	MAP NO. H-15

CITY OF ALBUQUERQUE

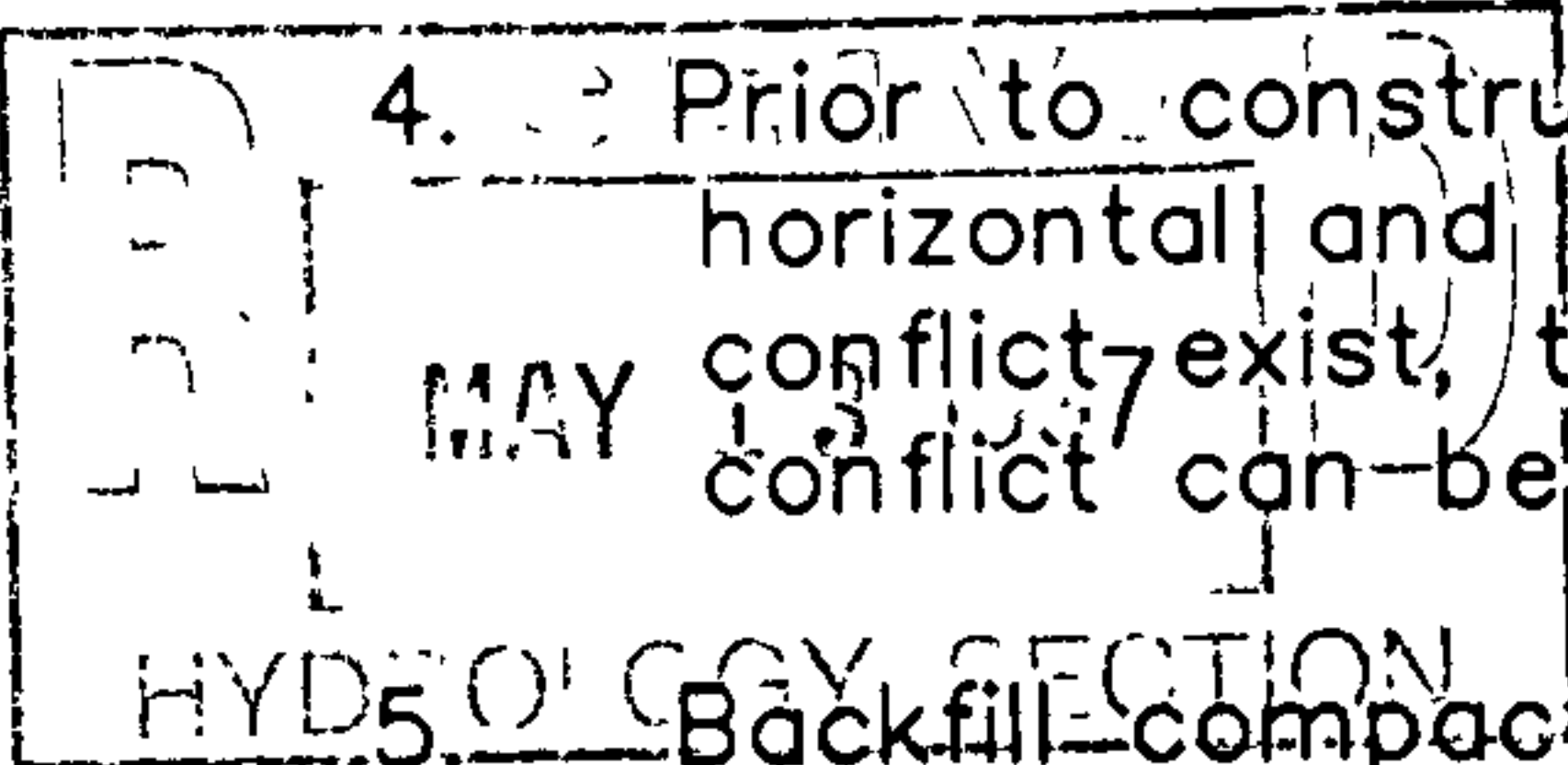
DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



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APPROVALS	NAME	DATE	TITLE: HOLIDAY INN 2020 MENAUL BLVD. NE DRAIN LINE CONNECTION TO INLET
HYDROLOGY			
INSPECTOR			
A.C.E. FIELD			PERMIT NO. SHEET 1 OF 2
			MAP NO. H-15



CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

JACKIE S. McDOWNEY  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER  
5-9-97

INSTALL 25 LF ~ 8" PVC  
DRAIN PIPE AND A  
DRAIN LINE CONNECTION  
TO EXIST. INLET PER  
COA STD. DWG. 2237

UNIVERSITY BLVD. N.E.

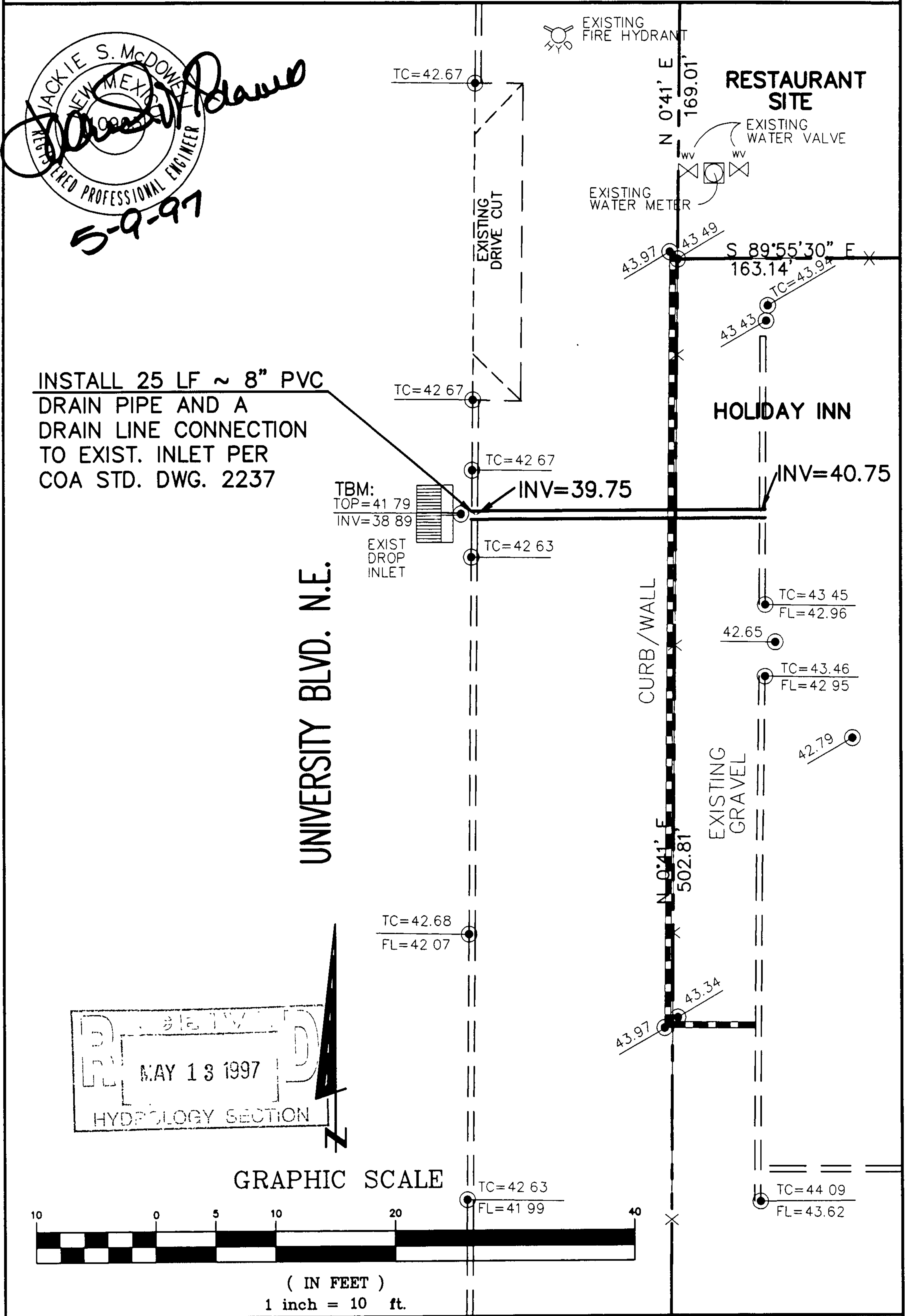
RECEIVED  
MAY 13 1997  
HYDROLOGY SECTION

GRAPHIC SCALE

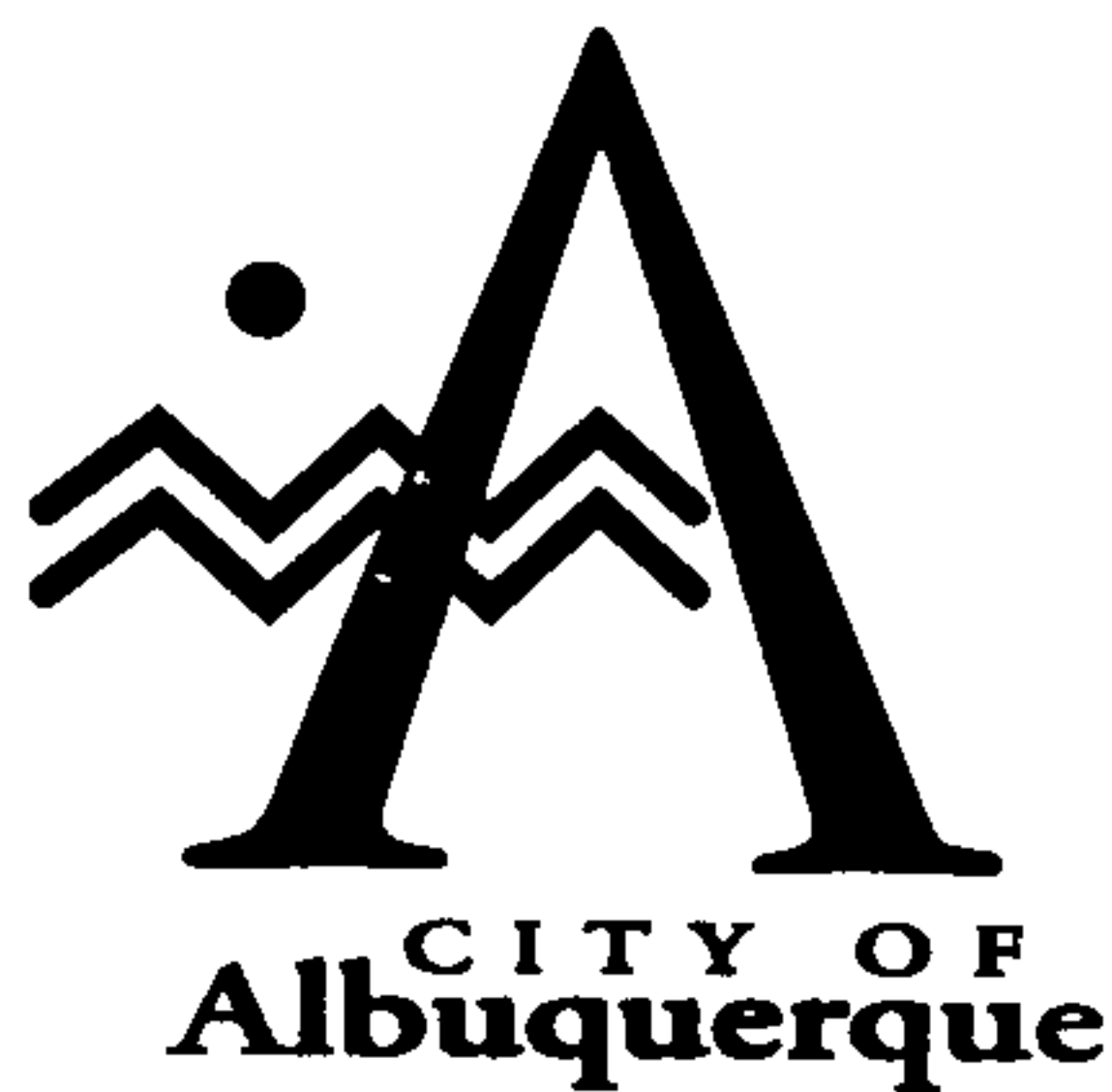


( IN FEET )  
1 inch = 10 ft.

APPROVALS	NAME	DATE	TITLE: HOLIDAY INN 2020 MENAUL BLVD. NE DRAIN LINE CONNECTION TO INLET	
HYDROLOGY				
INSPECTOR				
A.C.E. FIELD				
			PERMIT NO. SHEET 2 OF 2	MAP NO. H-15







September 5, 1996

**Martin J. Chávez, Mayor**

Scott McGee  
Isaacson & Arfman  
128 Monroe NE  
Albuquerque, NM 87108

**RE: DRAINAGE PLAN FOR AN ADDITION TO HOLIDAY INN MIDTOWN  
(H15-D13A) ENGINEER'S STAMP DATED 9/3/96.**


Dear Mr. McGee:

Based on the information provided on your September 3, 1996 submittal, the above referenced site is approved for Building Permit.

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

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

  
Bernie J. Montoya, CE  
Engineering Associate

BJM/dl

c: Andrew Garcia  


Good for You, Albuquerque!



# DRAINAGE INFORMATION SHEET

PROJECT TITLE: HOLIDAY INN - MIDTOWN ZONE ATLAS/DRAINAGE FILE # H-15/413A  
LEGAL DESCRIPTION: TRACTS A-C, ADDITION KOURY ADDITION  
CITY ADDRESS: 2020 MENAUL NE  
ENGINEERING FIRM: I&A CONTACT: SCOTT MCGEE  
ADDRESS: 128 MONROE NE PHONE: 268-8828  
OWNER: HOLIDAY INN CONTACT: \_\_\_\_\_  
ADDRESS: 2020 MENAUL NE PHONE: \_\_\_\_\_  
ARCHITECT: ERIC MILLER CONTACT: TOM GENTRY  
ADDRESS: 2435 ZEARING NW PHONE: 764-8550  
SURVEYOR: SW SURVEYING CONTACT: \_\_\_\_\_  
ADDRESS: 333 LOMAS NE PHONE: 247-4444  
CONTRACTOR: UNKN CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

## PRE-DESIGN MEETING:

\_\_\_\_ YES

X NO

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

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

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

PROJECT NO. \_\_\_\_\_

## TYPE OF SUBMITTAL:

\_\_\_\_ DRAINAGE REPORT

X DRAINAGE PLAN

\_\_\_\_ CONCEPTUAL GRADING & DRAIN PLAN

X GRADING PLAN

\_\_\_\_ EROSION CONTROL PLAN

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

## CHECK TYPE OF APPROVAL SOUGHT:

\_\_\_\_ SECTOR PLAN APPROVAL

\_\_\_\_ SKETCH PLAT APPROVAL

\_\_\_\_ PRELIMINARY PLAT APPROVAL

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

\_\_\_\_ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

\_\_\_\_ FOUNDATION PERMIT APPROVAL

\_\_\_\_ CERTIFICATE OF OCCUPANCY APPROVAL

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

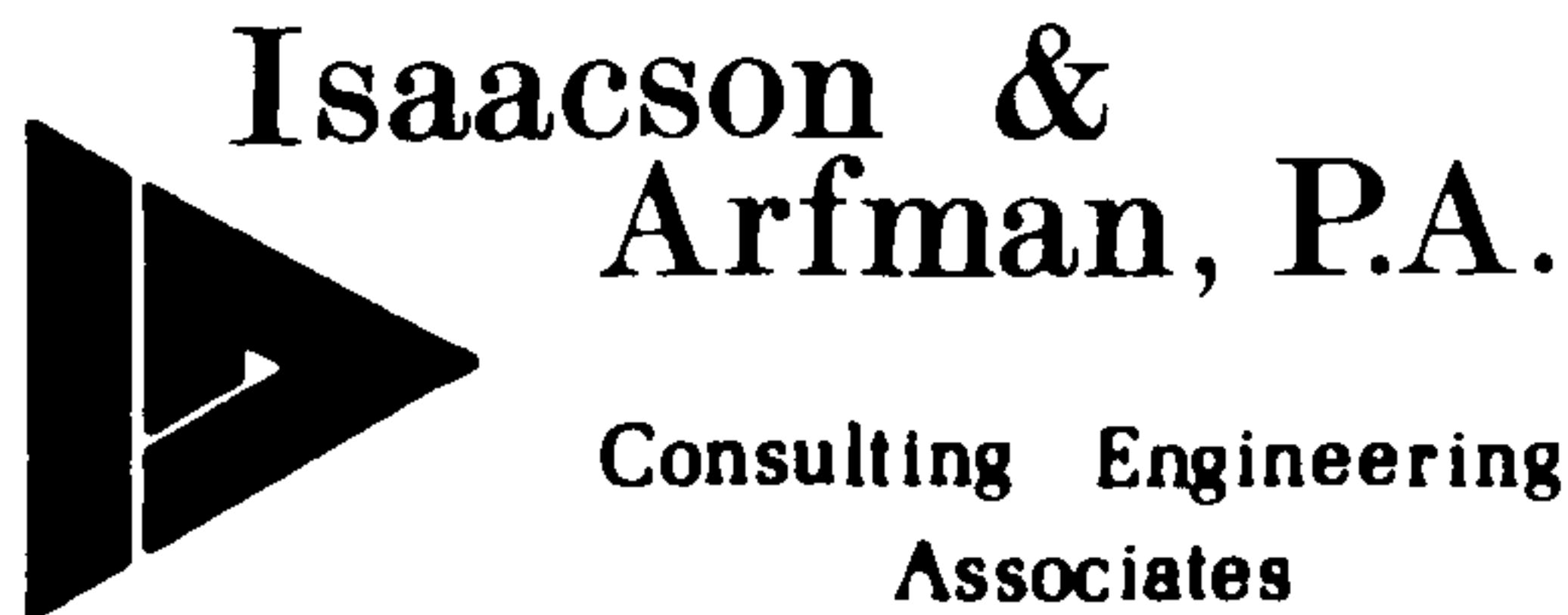
SEP - 3 1996  
\_\_\_\_ GRADING/PAVING PERMIT APPROVAL

\_\_\_\_ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: 9-3-96

BY: SCOTT M MCGEE





## Letter of Transmittal

To HYDROLOGY Date 9-3-96  
PWD Job No. \_\_\_\_\_  
CITY OF ALBUQUERQUE

Attn: DOLORES / BERNIE

Reference HOLIDAY INN MIDTOWN ADDITION

Gentlemen:

We transmit to you 1 ea copy(ies) of the following

- |   |  |
|---|--|
| <input type="checkbox"/> _____ Plats                                  | <input type="checkbox"/> Shop Drawings           |
| <input checked="" type="checkbox"/> <u>Grading</u> Plans              | <input type="checkbox"/> Submittals              |
| <input type="checkbox"/> Specifications                               | <input type="checkbox"/> Material Specifications |
| <input type="checkbox"/> _____ Report                                 | <input type="checkbox"/> Copy of Letter          |
| <input checked="" type="checkbox"/> <u>Drainage Information Sheet</u> |  |
| <input type="checkbox"/> _____  |  |

This information is transmitted:

- |  |   |
|--|---|
| <input type="checkbox"/> As per your request                   | <input type="checkbox"/> For your files           |
| <input checked="" type="checkbox"/> For your review & approval | <input type="checkbox"/> For your use             |
| <input type="checkbox"/> For your information                  | <input type="checkbox"/> Please review & return   |
| <input type="checkbox"/> For your attention                    | <input type="checkbox"/> For return to your files |
| <input type="checkbox"/> For your signature                    | <input checked="" type="checkbox"/> Please advise |
| <input type="checkbox"/> _____                                 |   |
| <input type="checkbox"/> _____                                 |   |

Remarks: \_\_\_\_\_

SEP - 3 1996

By: Scott M. Yee

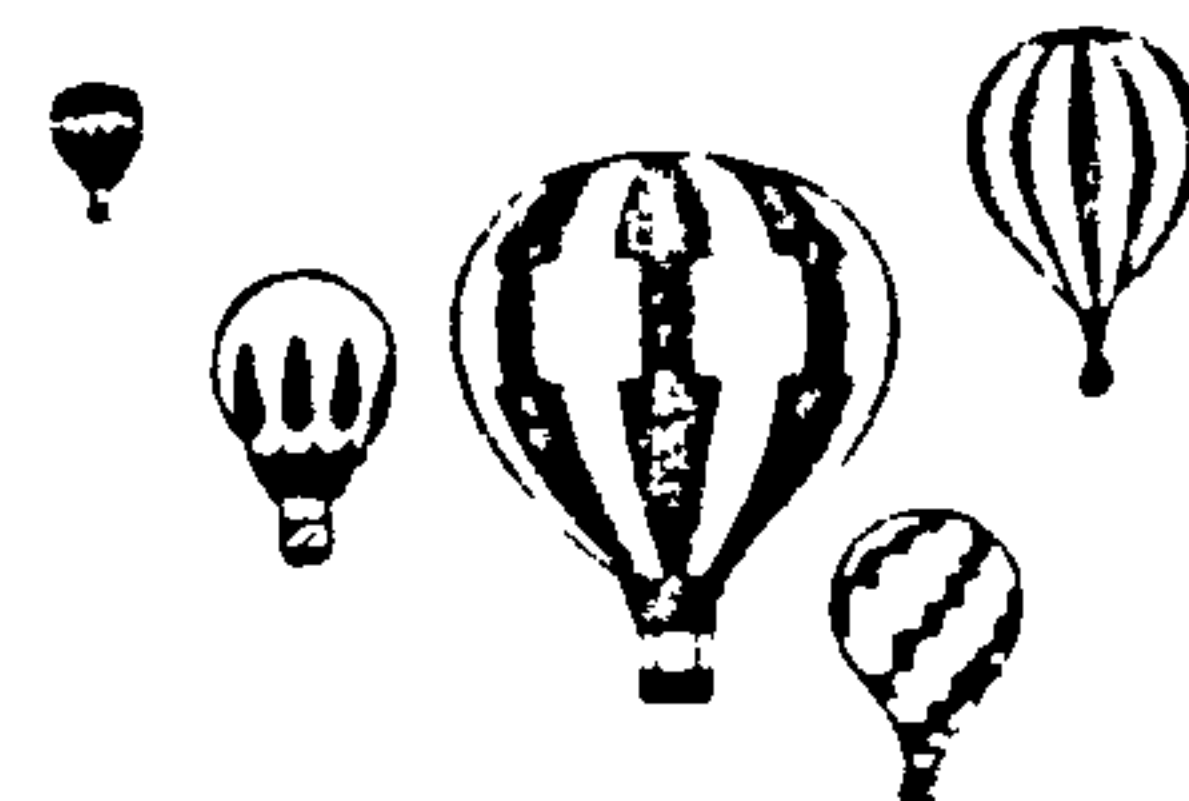
Copies To file



**JORDAN & NOBLES**  
CONSTRUCTION • CONSTRUCTION MANAGEMENT

WILLIAM MUNDY  
Project Superintendent

240 EAST SUNSET • EL PASO, TEXAS 79922 • (915) 584-4425



May 13, 1985

Mr. Voltz  
Building Inspector  
City of Albuquerque

**JORDAN & NOBLES**  
CONSTRUCTION • CONSTRUCTION MANAGEMENT

WILLIAM MUNDY  
Project Superintendent

240 EAST SUNSET • EL PASO, TEXAS 79922 • (915) 584-4425

RE: Holiday Inn Midtown Addition

Mr. Voltz:

In conjunction with Jordan and Nobel's we have requested a temporary certificate of occupancy for our new rooms. We have satisfied all code requirements except for the parking lot area. We will start paving this area Thursday, May 16, 1985. All guests have adequate and safe parking facilities in the existing parking lot.

If you have any questions please let me know.

Thank you,

Brad Boland  
General Manager

CC: Bill Munday  
Jordan and Nobel's

*HYDROLOGY DEPT.*

*THIS IS TO INFORM YOU THAT  
ALL STORM DRAINS & SITE WORK WILL  
BE COMPLETED IN APPROX 10 DAYS.*





# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

FILE COPY

February 20, 1984

Mr. Richard Allen, P.E.  
Design Professionals, Inc.  
4301 Carlisle NE  
Albuquerque, NM 87107

REF: HOLIDAY INN DRAINAGE PLAN (H15-D13A)

Dear Mr. Allen:

The above mentioned plan, as recieved January 24, 1984, is hereby approved. Please be sure that the approved plan, as well as, copies of the "Drainage Facilities Within City Right-of-Way" documents are attached to the permit sets prior to submittal to Hydrology for sign-off.

If you have any further questions, please feel free to call me at 766-7644.

Thank you,

John Armstrong  
Civil Engineer/Hydrology

JA:mrk

January 24, 1984

Mr. John Armstrong  
City of Albuquerque  
Municipal Development Department  
Hydrology Section  
Albuquerque, New Mexico 87103

SUBJECT: Final Drainage Plan/Report  
Holiday Inn - 2020 Menaul, N.E.

Dear Mr. Armstrong:

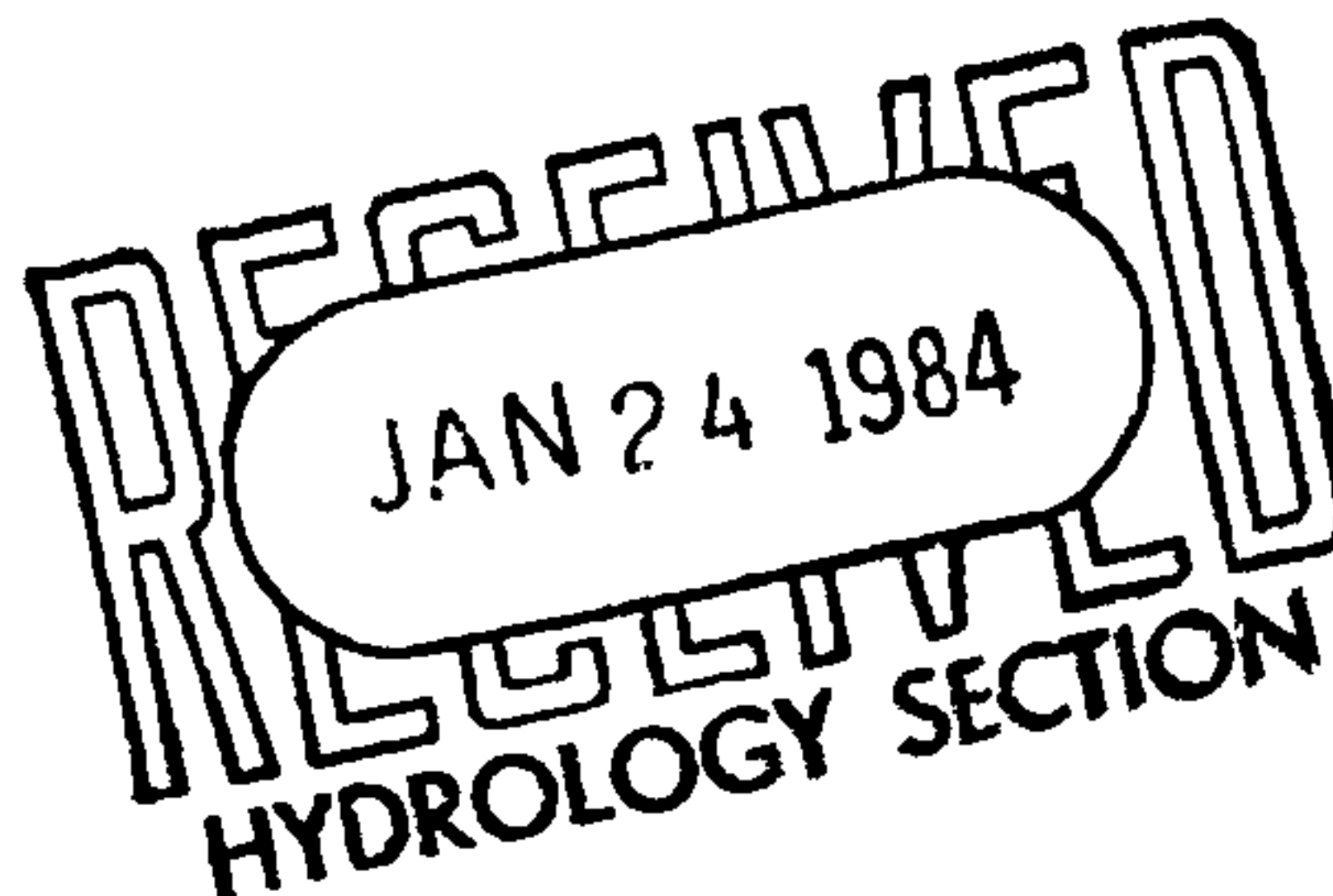
Enclosed you will find two copies of the subject drainage report and two prints of the drainage plan. In addition, you will find a copy of the conference recap notes, a copy of your approval of the conceptual drainage plan, the information sheet, and an approved copy of the drop inlet connection.

If there are any questions concerning the above, please contact the undersigned.

Respectfully,

DESIGN PROFESSIONALS, INC

  
EDWARD L. FOTHOFF



**ARCHITECTS / ENGINEERS**

**PRINCIPALS:**

RICHARD H. ALLEN  
GEORGE H. BOLLING  
HOWARD S. COTTRELL



INFORMATION SHEET

PROJECT TITLE	Additions and Renovations to Holiday Inn-Midtown	TYPE OF SUBMITTAL	Drainage Plan
ZONE ATLAS PAGE NO.	H-15	CITY ADDRESS	2020 Menaul Blvd., N.E.
LEGAL DESCRIPTION	Tracts "A", "B" & "C" of the KOURY ADDITION.		
ENGINEERING FIRM	Design Professionals, Inc.	CONTACT	Ed Potthoff or Rich Allen
ADDRESS	4301 Carlisle Blvd., N.E.	PHONE	881-6336
OWNER	Holiday Inn	CONTACT	
ADDRESS	2020 Menaul Blvd., N.E.	PHONE	884-2511
ARCHITECT	Hnedak, Bobo, Gooch & Assoc. Suite 808, 22 North Front St.	CONTACT	Ron Bonner
ADDRESS	Memphis, Tennessee 38103	PHONE	(901) 525-2557
SURVEYOR	Tom Mann & Associates, Inc.	CONTACT	Tom Mann
ADDRESS	811 Dallas, N.E.	PHONE	265-5611
CONTRACTOR		CONTACT	
ADDRESS		PHONE	

PRE-DESIGN MEETING:

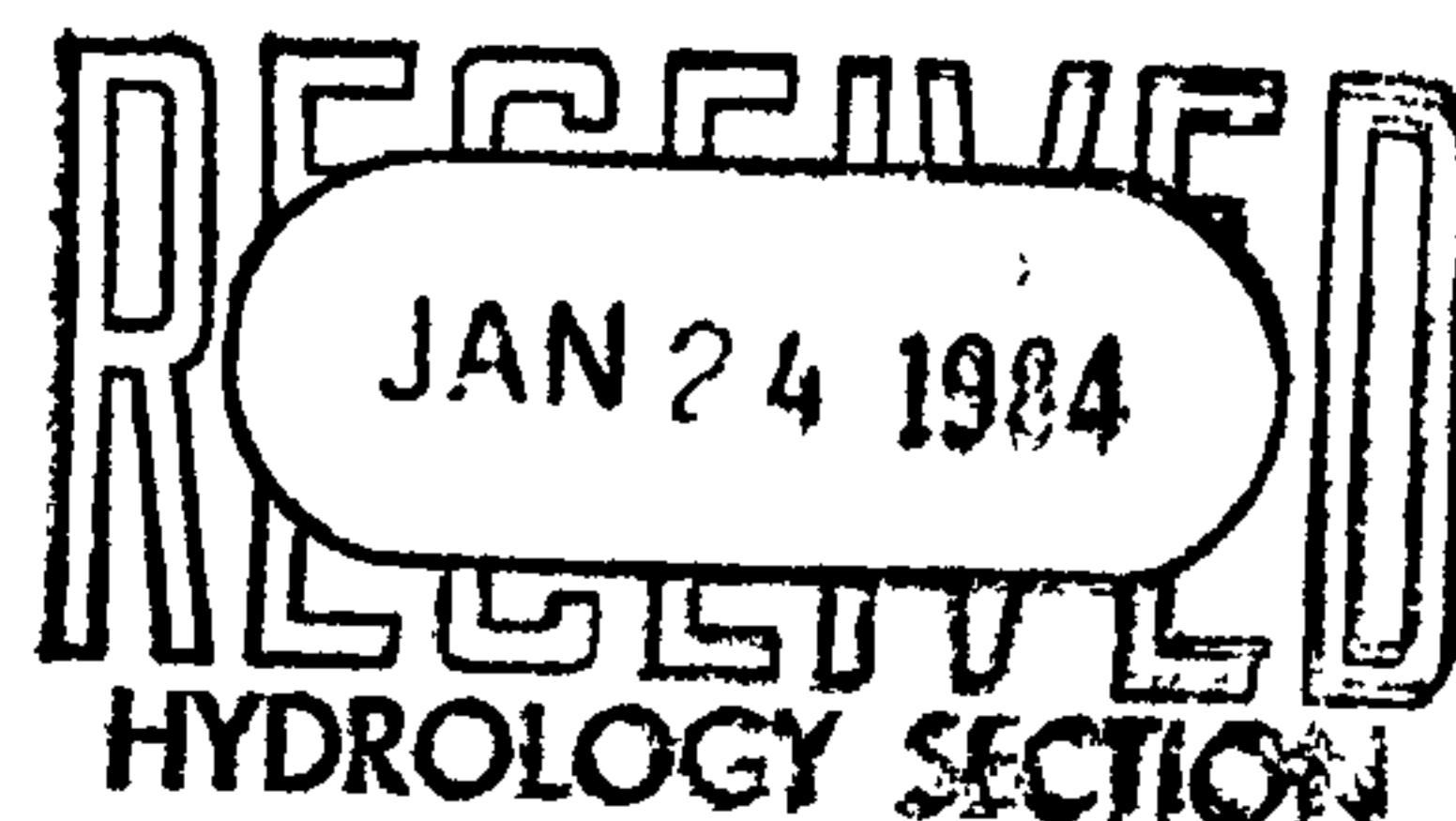
☒ YES  
☐ NO  
☒ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

☐ SKETCH PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ SITE DEVELOPMENT PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☒ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY APPROVAL  
☐ ROUGH GRADING PERMIT APPROVAL  
☐ GRADING/PAVING PERMIT APPROVAL  
☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED

BY





CITY OF ALBUQUERQUE  
MUNICIPAL DEVELOPMENT DEPARTMENT  
ENGINEERING DIVISION



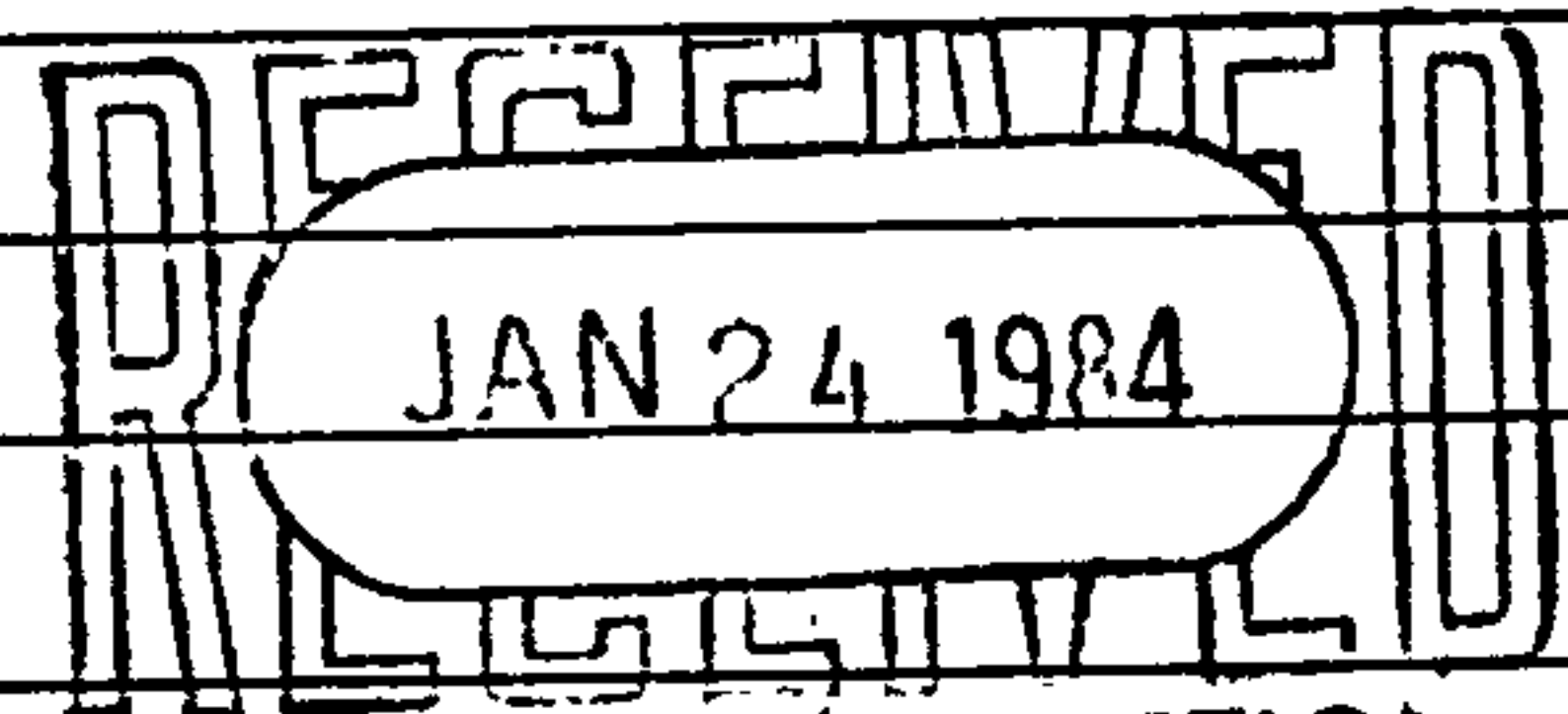
HYDROLOGY SECTION PROJ. NO. HIS DATE: 11/22/83

PLANNING DIVISION NO. \_\_\_\_\_

CONFERENCE RECAP

SUBJECT: Holiday Inn @ Menard & University N.E.

WHO	REPRESENTING
ATTENDANCE: <u>John Armstrong</u>	<u>City</u>
<u>Richard Allen</u>	<u>Design Proct.</u>
<u>Ed Pothoff</u>	<u>'</u>
_____	_____
_____	_____
_____	_____
_____	_____



FINDINGS: (1) Drainage Plan per DPM appropriate

(2) Free discharge allowed if entire site can discharge (also) directly to storm drain otherwise controlled discharge directly to existing drop inlet in University w/ 0.5 cfs / acre for newly developed area (Entire site being that portion now draining to University Blvd.)

Note: This pre design replaces one held earlier this date.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: [Signature]

TITLE: Hydrologist

DATE: 11/22/83

SIGNED: [Signature]

TITLE: \_\_\_\_\_

DATE: 11/22/83





# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 27, 1983

Mr. Edward L. Potthoff  
Design Professionals, Inc.  
4301 Carlisle Blvd. NE  
Albuquerque, New Mexico 87107

RE: PRELIMINARY DRAINAGE PLAN FOR HOLIDAY INN (H15-D13a)

Dear Mr. Potthoff:

The above mentioned plan, dated December 1, 1983, is satisfactory for a foundation only permit and is hereby approved for that purpose.

In future submittals please include a completed "Information Sheet" from the Development Process Manual.

If you should have any further questions in reference to the above please do not hesitate to contact me at 766-7644.

Thank you,

John Armstrong  
Civil Engineer-Hydrology

JA/ca

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E.,

City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

December 13, 1983

415-D136

Mr. John Armstrong  
City of Albuquerque  
Municipal Development Department  
Post Office Box 1293  
Albuquerque, New Mexico 87103

SUBJECT: Preliminary Drainage Plan  
Holiday Inn at Menaul and University

Dear Mr. Armstrong:

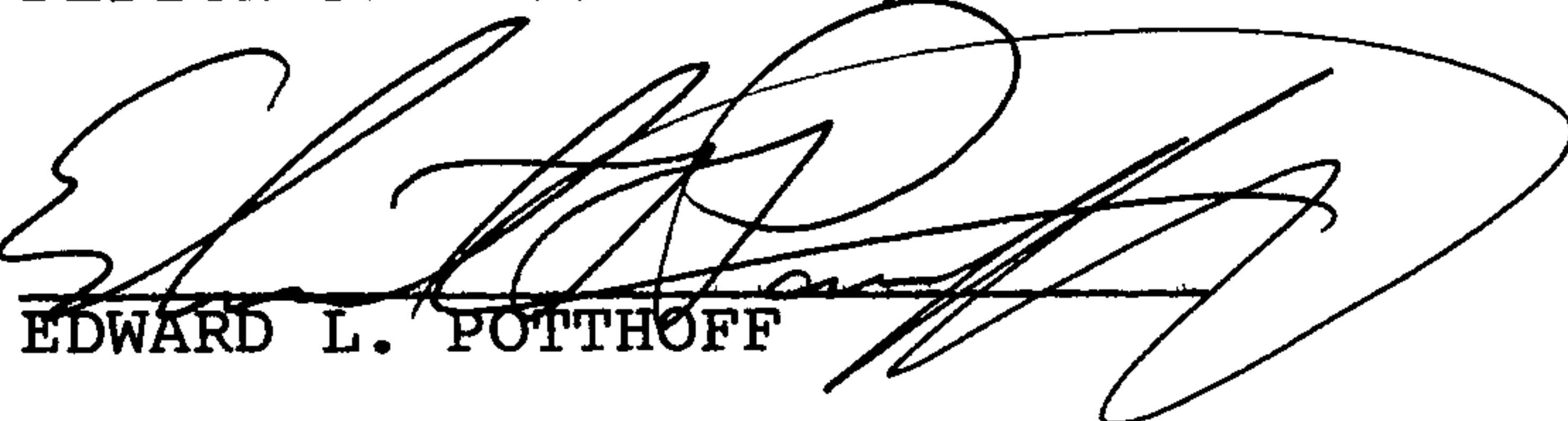
Enclosed you will find two prints of the subject addition. Reference is made to your Conference Recap dated November 22, 1983 and the conference held in Mr. Aguirre's office on November 30, 1983, where the enclosed print was discussed. Recommended changes have been incorporated into the overall design.

It is anticipated that Hnedak, Bobo, Gooch & Associates of Memphis, Tennessee will request a foundation permit based on this preliminary drainage plan.

If there are any questions regarding the above, please contact the undersigned.

Sincerely,

DESIGN PROFESSIONALS, INC.

  
EDWARD L. POTTHOFF

cc: Ronnie A. Bonner, AIA  
Hnedak, Bobo, Gooch & Associates

RECEIVED

DEC 13

ENGINEERING

**ARCHITECTS/ENGINEERS**

PRINCIPALS:

RICHARD H. ALLEN  
GEORGE H. BOLLING  
HOWARD S. COTTRELL



MAP  
NO. H-15



APPROVALS	NAME	DATE	TITLE: ADDITIONS + RENOVATIONS to HOLIDAY INN-MIDTOWN 2020 MENAUL BLVD., NE	
A.C.E./DESIGN	<i>[Signature]</i>	<i>13 Jan 84</i>	PERMIT NO. SHEET 2 OF 2 <div style="float: right;">           MAP NO. H-15         </div>	
INSPECTOR				
A.C.E./FIELD				



CITY OF ALBUQUERQUE  
MUNICIPAL DEVELOPMENT DEPARTMENT  
ENGINEERING DIVISION



HYDROLOGY SECTION PROJ. NO. HIS DATE: 11/22/83

PLANNING DIVISION NO. \_\_\_\_\_

CONFERENCE RECAP

SUBJECT: Holiday Inn @ Menaul's University N.E.

WHO	REPRESENTING
ATTENDANCE: <u>John Armstrong</u>	<u>City</u>
<u>Richard Allen</u>	<u>Design Prof.</u>
<u>Ed Pothoff</u>	<u>'</u>
_____	_____
_____	_____
_____	_____
_____	_____

FINDINGS: \_\_\_\_\_

(1) Drainage Plan per DPM appropriate.

(2) Free discharge allowed if entire site can discharge (Q<sub>100</sub>) directly to storm drain otherwise controlled discharge directly to existing drop inlet in University w/ 0.5 cfs / acre for newly developed area (Entire site being that portion now draining to University Blvd)

Note: This pre design replaces one held earlier in this date.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: [Signature]

TITLE: PE / Hydrologist

DATE: 11/22/83

SIGNED: [Signature]

TITLE: \_\_\_\_\_

DATE: 11/22/83

H-15-D-13A





CITY OF ALBUQUERQUE  
MUNICIPAL DEVELOPMENT DEPARTMENT  
ENGINEERING DIVISION



HYDROLOGY SECTION PROJ. NO. H15 DATE: 11/22/83

PLANNING DIVISION NO. \_\_\_\_\_

CONFERENCE RECAP

SUBJECT: Holiday Inn @ Menard & University, NE

WHO	REPRESENTING
ATTENDANCE: <u>John Armstrong</u>	<u>City</u>
<u>Ed Potthoff</u>	<u>Design Potthoff</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FINDINGS: \_\_\_\_\_

(1) Drainage Plan per DPM appropriate

(2) Construct sand<sup>8" Drop</sup> in parking area along University  
with 4"  $\phi$  discharge to back of existing drop  
inlet

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: [Signature]

TITLE: CE / Hydrology

DATE: 11/22/83

SIGNED: [Signature]

TITLE: Deputy Eng R

DATE: 11/22/83

H-15-D-13A



DRAINAGE PLAN/REPORT

ADDITION AND RENOVATIONS TO  
HOLIDAY INN - MIDTOWN

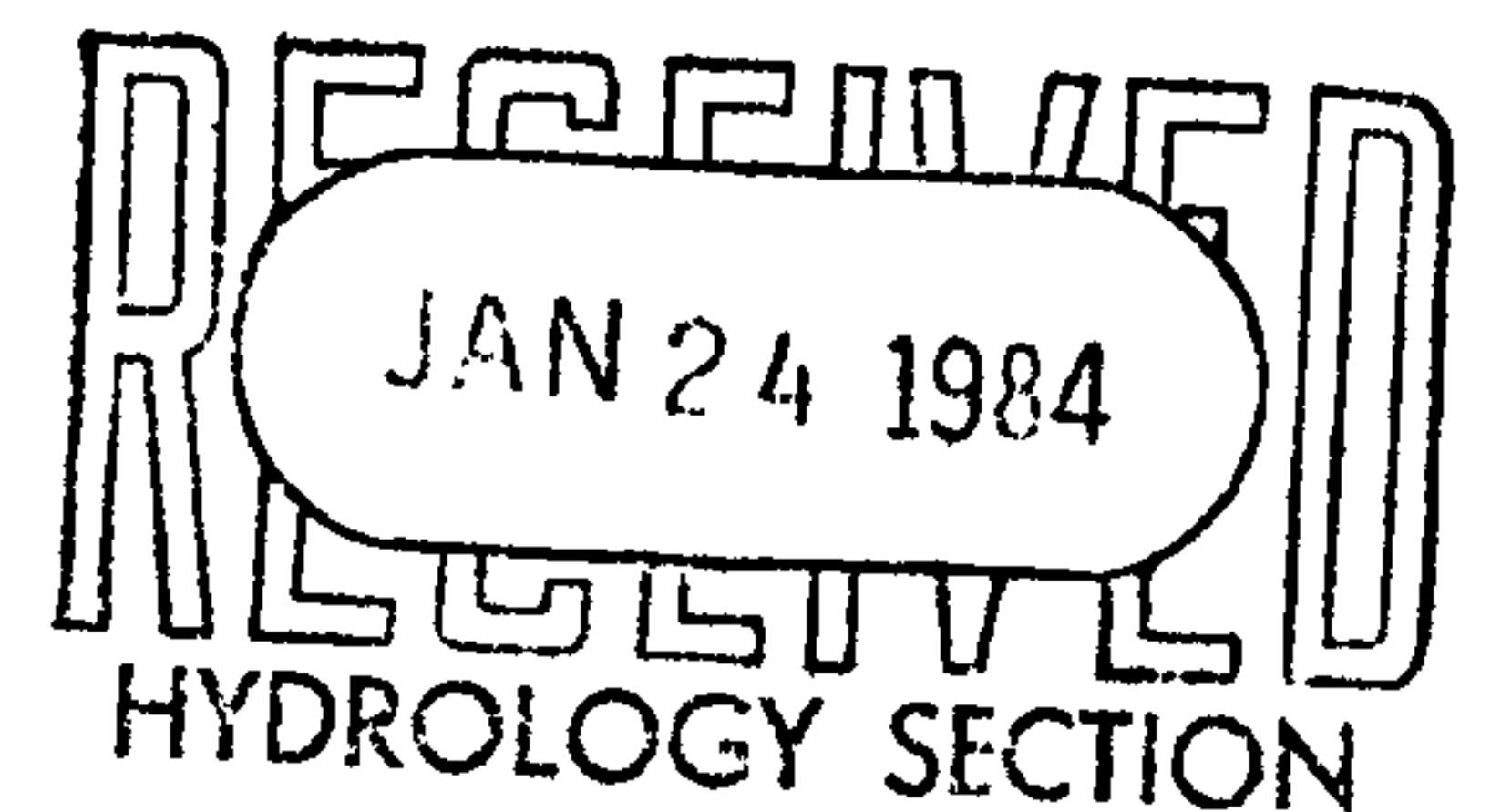
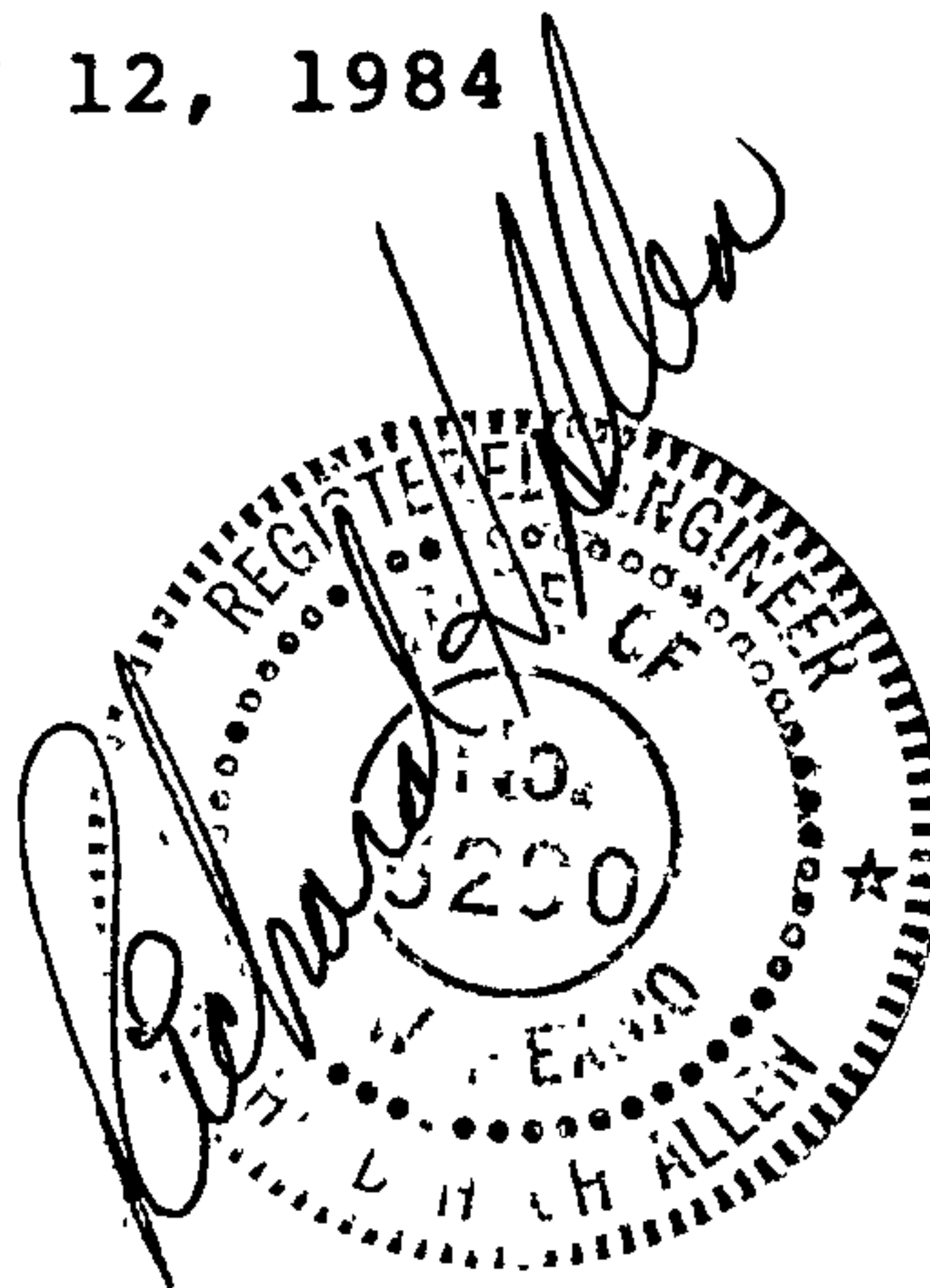
FOR

HNEDAK, BOBO, GOOCH & ASSOCIATES  
SUITE 808, 22 NORTH FRONT STREET  
MEMPHIS, TENNESSEE 38103

BY

DESIGN PROFESSIONALS, INC.  
ARCHITECTS/ENGINEERS  
4301 CARLISLE BOULEVARD, N.E.  
ALBUQUERQUE, NEW MEXICO 87107

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### DRAINAGE PLAN NOTES

The following items concerning the proposed project are contained herein or on the enclosed drainage plan.

1. Grading Plan
2. Vicinity Map
3. Legal Description for Project Site
4. Flow Rates and Volumns of Run-off

The proposed commercial building and landscaped areas are located on the east side of University Boulevard approximately 350 feet south of Menaul Boulevard. The project (1) does not lie within a flood plain; (2) does not lie adjacent to a natural or artificial water course; and (3) has no drainage easements on the property.

A portion of the site to be developed currently drains through a twelve inch corrugated metal pipe to a sodded artifical swale and then into University Boulevard, approximately 275 feet south of Menaul Boulevard. The undeveloped portion slopes generally to the northwest and drains directly into University Boulevard.

Per the conference recap notes issued by the City Hydrology Department on November 22, 1983, controlled discharge is being accomplished through a PVC pipe to an existing drop inlet on University Boulevard. The rate of discharge has been limited to 0.5 cfs per acre. The total site area is 1.6 acres, therefore, the total controlled flow from the

site has been limited to 0.84 cfs. The flow in excess of the above amount will be collected in two holding ponds. The lower pond is located at the northwest corner of the site and the upper pond will be located adjacent to the new building. At no time will the depth of either pond exceed 18 inches.

#### CALCULATIONS

Area = 68,400 SF (1.6 Acres)

Q <sub>100</sub> (Current, 6 hr.)	= 3.6 cfs;	V <sub>100</sub> (Current, 6 hr.)	= 6330 cf
Q <sub>100</sub> (Current, 1 hr.)	= 3.5 cfs;	V <sub>100</sub> (Current, 1 hr.)	= 3840 cf
Q <sub>100</sub> (Developed, 6 hr.)	= 5.1 cfs;	V <sub>100</sub> (Developed, 6 hr.)	= 8450 cf
Q <sub>100</sub> (Developed, 1 hr.)	= 4.9 cfs;	V <sub>100</sub> (Developed, 1 hr.)	= 5125 cf
Q <sub>10</sub> (Current, 6 hr.)	= 2.4 cfs;	V <sub>10</sub> (Current, 6 hr.)	= 3960 cf
Q <sub>10</sub> (Current, 1 hr.)	= 2.3 cfs;	V <sub>10</sub> (Current, 1 hr.)	= 2405 cf
Q <sub>10</sub> (Developed, 6 hr.)	= 3.4 cfs;	V <sub>10</sub> (Developed, 6 hr.)	= 5550 cf
Q <sub>10</sub> (Developed, 1 hr.)	= 3.2 cfs;	V <sub>10</sub> (Developed, 1 hr.)	= 3370 cf

Due to the intensity of the 100 yr./1 hr. storm, the ponding requirements prove to be more severe under this condition.

Upper Pond: Utilizing an inflow/outflow analysis based on a controlled discharge of 0.47 cfs, the maximum storage volume required will be about 3,430 ft.<sup>3</sup>. As is indicated on the drainage plan, a minimum pond area of 2,300 ft.<sup>2</sup> is provided. The pond depth will be 18". Flow from the pond will be accomplished through a six inch diameter PVC pipe with the inlet restricted to a 12.6 in.<sup>2</sup> opening. This restriction will limit the flow rate to 0.47 cfs.



Lower Pond: Utilizing an inflow/outflow analysis based on a controlled discharge of 0.84 cfs, the maximum storage volume required will be about 1,860 ft.<sup>3</sup>. As is indicated on the drainage plan, a pond area of 2,800 ft.<sup>2</sup> is provided. The maximum depth of the pond at any one point will be 18". Flow from the pond will be through a 6" diameter PVC pipe with the inlet restricted to 12.6 in.<sup>2</sup>. This will limit the flow rate to 0.84 cfs.

The two ponding areas plus the controlled discharge will handle 100% of the 100-year storm flow as opposed to the free discharge of water which now occurs. This will relieve some of the accumulation of water now occurring on University Boulevard due to current run-off conditions. Additionally, as now designed, all nuisance water will be contained on-site and is subject to controlled discharge.

Due to the possibility of the drain lines clogging, both ponds are provided with emergency spillways. These spillways are at the anticipated 100 year pond elevations. The spillway for the upper pond will direct any overflow to the lower pond through the parking area. The spillway for the lower pond will direct the water overload to the existing drop inlet on University Boulevard.