CITY OF ALBUQUERQUE

December 17, 2004

Lawrence Read, P.E.
Larry Read & Associates Inc.
4800 Juan Tabo NE, Suite C
Albuquerque, NM 87111

Re: Holiday Inn – I-25 and Jefferson, 4900 Jefferson NE, Grading and Drainage Report
Engineer's Stamp dated 12-09-04 (F17-D90)

Dear Mr. Read,

Based upon the information provided in your submittal received 12-10-04, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

1. Provide details for the channels.
2. The private storm drain that runs along the northwestern property line has an invert of 57.25 to an invert of 58.96 at the drain discharge. This will prevent flow from entering the channel.
3. Provide the calculated required volume of the pond as well as the water surface elevation on the grading and drainage plan.
4. Show the outfall and provide existing inverts.
5. There is cutting proposed near the existing sanitary sewer manhole. What else needs to be done to this line?
6. Provide a cross section of the dip crossing (currently referred to as a valley gutter).
7. As currently designed, the ponding area on this lot would be 3 feet deep in the event of a 100-year storm. This would prevent access to the site. A depth of 1 foot is the maximum ponding depth that will be allowed.
8. This plan must also be approved by the Highway Department.

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

Sincerely,

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

C: File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: HOLIDAY INN - I25 @ JEFFERSON
DRB #: _____ EPC#:_____

ZONE MAP/DRG. FILE #:F-17/D90
WORK ORDER#:

LEGAL DESCRIPTION: PARCEL 2, LANDS ON B. C. RINGER
CITY ADDRESS:4900 JEFFERSON NE

ENGINEERING FIRM: LARRY READ & ASSOCIATES, INC
ADDRESS: 4800 JUAN TABL BLVD. NE SUITE C
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: LARRY READ
PHONE: 237-8421
ZIP CODE: 87111

OWNER: LEGACY HOSPITALITY, INC
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: FAIZEL KASSAM
PHONE: 243-6000
ZIP CODE: 87106

ARCHITECT: TAFFAZULE HUSSAIN
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: TAFFAZULE HUSSAIN
PHONE: 315-1482
ZIP CODE: 87106

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT:
PHONE:
ZIP CODE:

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT:
PHONE:
ZIP CODE:

CHECK TYPE OF SUBMITTAL:

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

BP fee paid

CHECK TYPE OF APPROVAL SOUGHT:

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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

RECEIVED
DEC 10 2004
HYDROLOGY SECTION

DATE SUBMITTED:Dedc 9, 2004 BY:LARRY D. READ PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature , location and scope 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 (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.

TABLE OF CONTENTS

Item	Description	Page Number
•	Location and Description	1
•	Floodplain Status	1
•	Methodology	1
•	Precipitation	1
•	Existing Drainage Conditions	3
•	Developed Drainage Conditions	3
	EXHIBITS	
1	Vicinity Map	2
2	Grading and Drainage Plan	Pocket
3	FIRM Map Panels 138E and 139E	4 & 5
4	Offsite Drainage Basin Map	6
5	ABF Trucking Existing Drainage Plan	Pocket
	APPENDICES	
•	AHYMO Analyses	A

DRAINAGE REPORT

for

HOLIDAY INN - JEFFERSON
ALBUQUERQUE, NEW MEXICO

November 29, 2004

LOCATION & DESCRIPTION

The proposed site is located in the northeast quadrant of Jefferson and the I-25 access road north of the Trucks West site as shown on **Exhibit 1**. The site is currently undeveloped but has been used as a truck parking lot by Truck West for many years so the site is void of any vegetation.

The proposed development is a 6-story hotel with associated paved parking, sidewalks, landscaping and all that stuff that is needed to support the hotel.

FLOODPLAIN STATUS

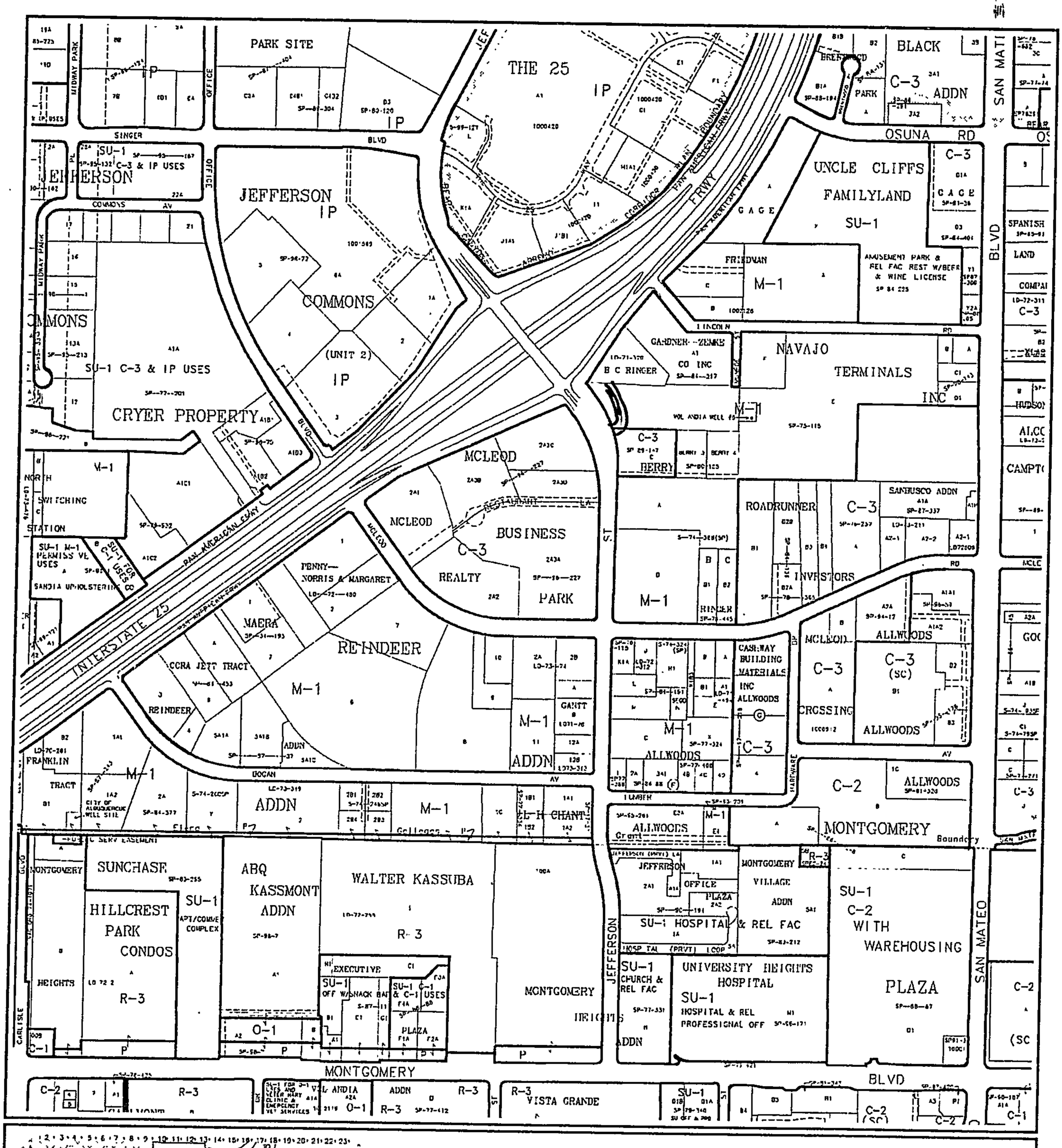
This property, as shown on FIRM Map Panel 35001C0138E and 35001C0138E, effective November 19, 2003, is not within any designated flood zones. There is a 100-year floodplain, designation Zone AO (depth 1') on the opposite side of the I-25 Frontage Road from this site. Portions of these panels with the area designated on it is included as Exhibit 3 in this report.

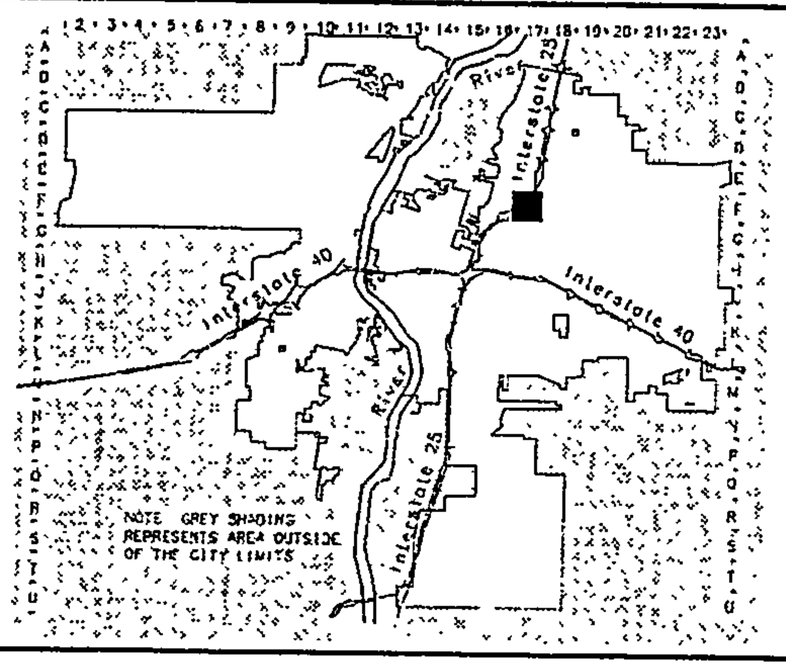
METHODOLOGY

The hydrology for this project was analyzed using the 1997 release of the AHYMO computer modeling program as developed by AMAFCA. All procedures are in accordance with those shown in the June 1997 release of the City of Albuquerque Development Process Manual, Section 22.2.

PRECIPITATION

The 100-yr, 6-hour duration storm was used as the design storm for this analysis. This site is within Zone 2 as identified in the City of Albuquerque Development Process Manual, Section 22.2. Tables within this section were used to establish the 1-hour, 6-hour precipitation, and 24-hour precipitation.





CITY OF
Albuquerque

Albuquerque Geographic Information System

PLANNING DEPARTMENT

©Copyright 2003

GRAPHIC SCALE IN FEET

250 0 750 1000

Zone Atlas Page

F-17-Z

Map Amended through July 31, 2003

EXISTING DRAINAGE CONDITIONS

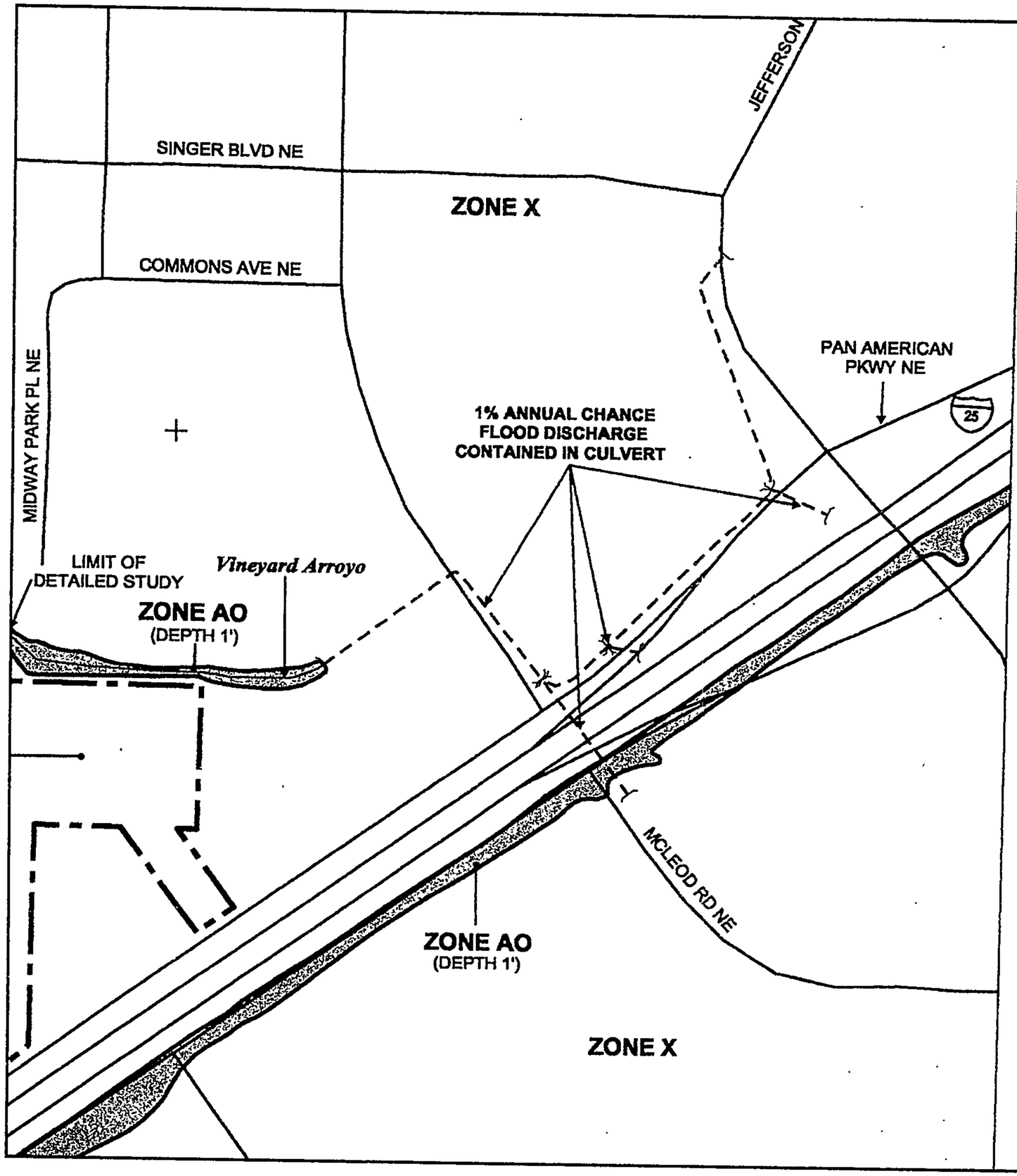
The existing site is undeveloped. There are several offsite drainage basins that contribute runoff to this site as shown on the Offsite Drainage Basin Map (Exhibit 4). All runoff from the offsite basins except Basin 2 flow either along Lincoln Road to the north or Jefferson Road to the south instead of directly to this site. Basin 2 drains through a rectangular concrete channel the parallels the north property line of this project on the parcel to the north. Basin 1, this site drains directly to the pond along I-25. Once the runoff from both on-site and off-site reaches the I-25 frontage road, it collects in a low area (existing pond) at the west side of this site where it meets the berm for the frontage road. Runoff is then discharged, via an existing 36" CMP culvert to the existing collection system between the frontage road and main lanes on I-25 where an existing storm drain conveys it the west side of I-25.

This property slopes west toward the frontage road at a slope of about 1.5%. As discussed above, the site has been used as a parking lot for many years and is void of any vegetation. Since it is very low, the runoff that accumulates in the low area at the west side will build head in more intense storm and back-up onto this site. Ahymo analysis of the existing 36" CMP culvert shows that the high water elevation in a 100-year storm will reach elevation of 58.99 feet which is about half way across the site from west to east.

DEVELOPED DRAINAGE CONDITIONS

The proposed development is a multi story hotel as shown on the Grading Plan (Exhibit 2) in the pocket of this report. The offsite runoff routing from Basins 4, 4A, 6, 7, 8, 9, and 10 are not impacted by the proposed development since it runs along Jefferson to the existing pond along the I-25 access road. Likewise, the runoff from Basins 2 and 3 that flows in the rectangular concrete channel just north of the north property line is not impacted by the proposed development. When the runoff from Basins 2 and 3 reach the I-25 access road, the proposed development includes a rectangular channel to convey the runoff alone the west side of this development to the existing culvert under the access road. This channel will also collect runoff from the on-site development via surface flow and discharge from the proposed on-site storm drainage system.

The Ahymo analysis of the conditions after the proposed development is complete shows that the 100-year high water level has increased from 58.99 before development to 59.83 after development. Since the majority of this ponding is on this project site, there is minimal impact to existing adjacent properties. The finish floor of Trucks West is 5165.0 and of Champion Building is 5162.8. The high water level after development has no impact on Champion building at all since the existing elevation at the south western portion of their site is slightly over 60.0. The high water elevation will pond on the site access road and western portion of the parking lot on this site during a 100-year event. The owner has been informed of this situation and has no problem with it. The proposed finish floor elevation 5161.70 is 1'-10" above the high water elevation.



MAP SCALE 1" = 500'

500 1000 FEET

METERS

PANEL 0138E

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 138 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0138	E
BERNALILLO COUNTY	350001	0138	E

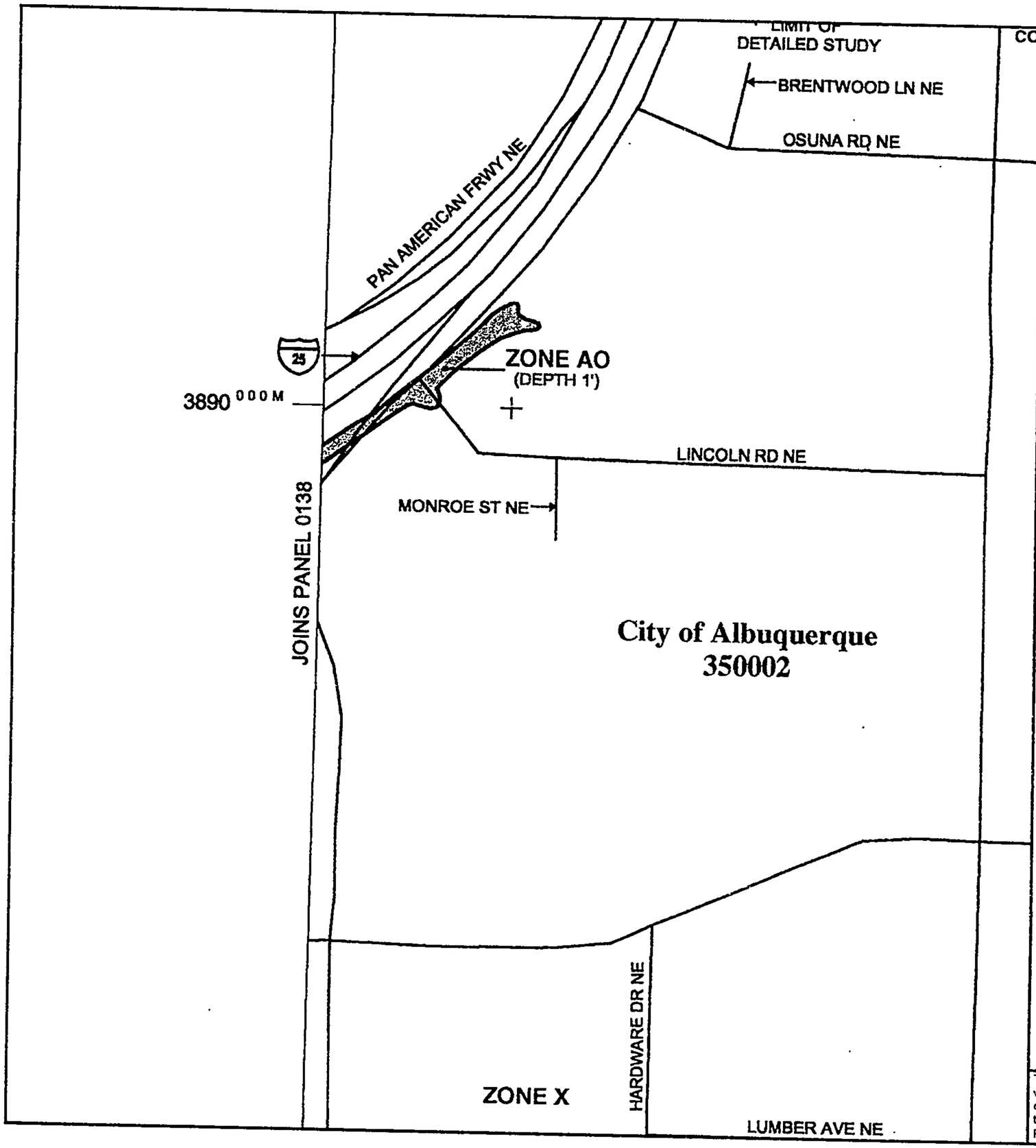
Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
35001C0138E

MAP REVISED
NOVEMBER 19, 2003

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MAP SCALE 1" = 500'

500 1000 FEET

METERS

PANEL 0139E

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO
AND INCORPORATED AREAS

PANEL 139 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0139	E
BERNALILLO COUNTY	350001	0139	E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
35001C0139E

MAP REVISED
NOVEMBER 19, 2003

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

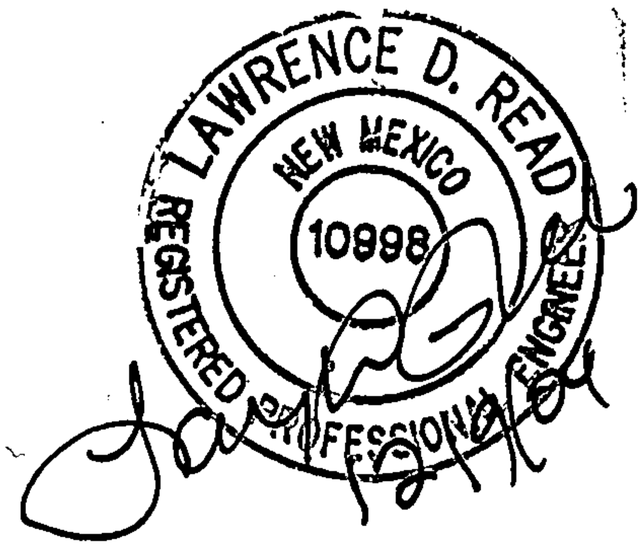
DRAINAGE REPORT

for

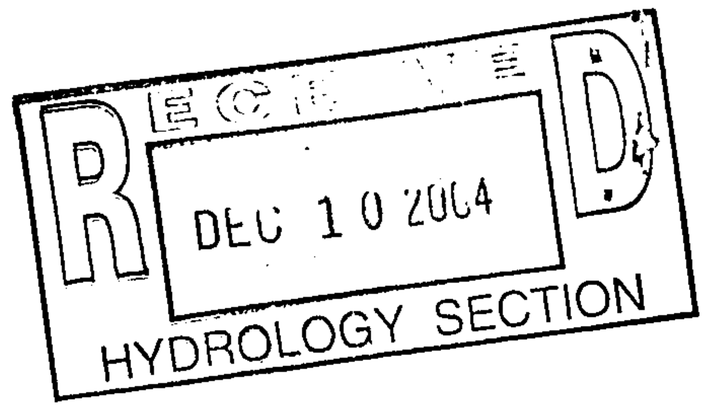
HOLIDAY INN - JEFFERSON

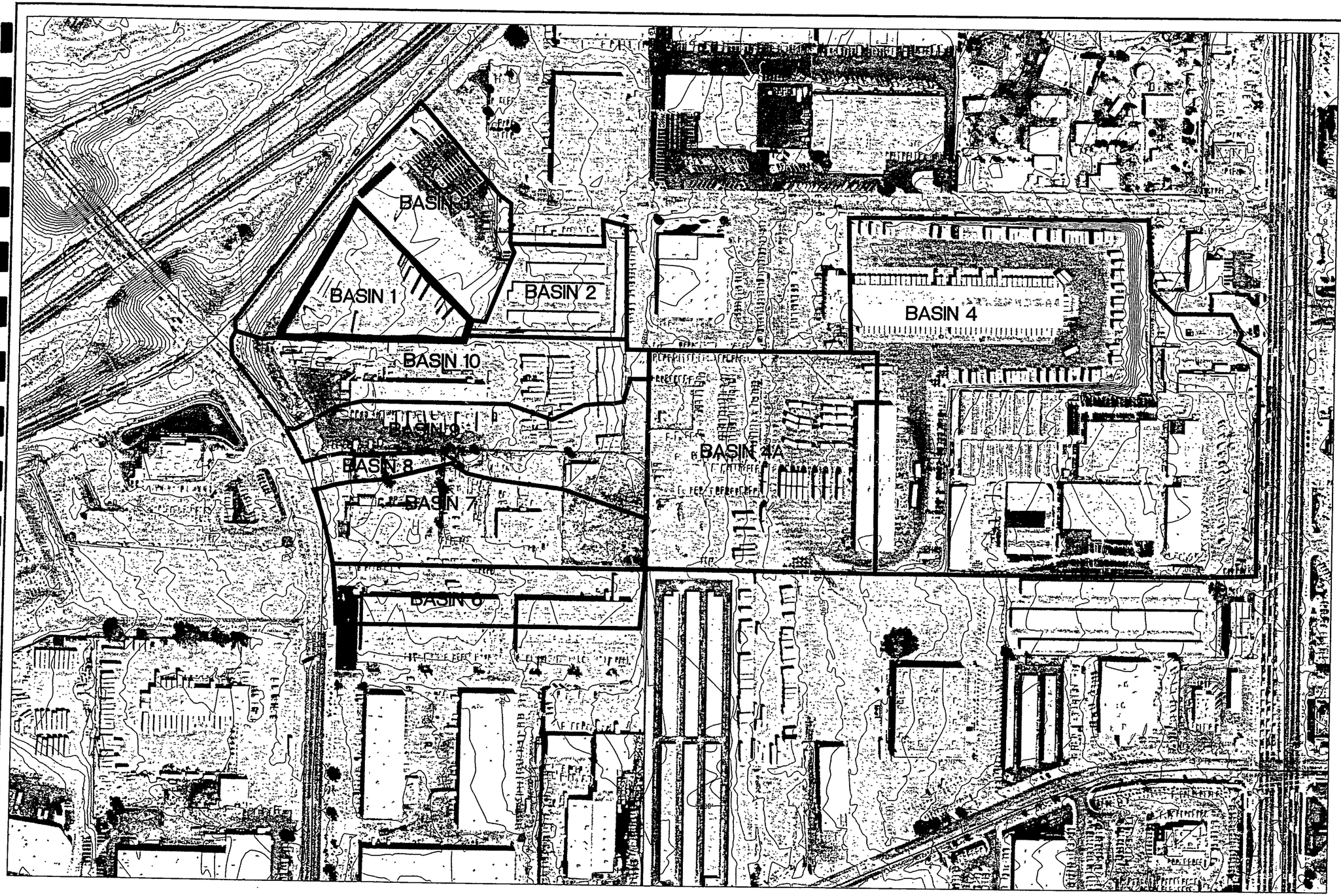
ALBUQUERQUE, NEW MEXICO

November 29, 2004

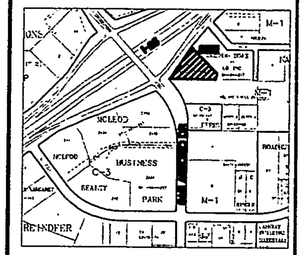


Prepared by
Larry D. Read, P.E.
4800-C Juan Tabo Blvd., N.E.
Albuquerque, New Mexico 87113
(505) 237-8421





OFFSITE DRAINAGE BASIN MAP
SCALE 1" = 200'



VICINITY MAP F-17

LEGAL DESCRIPTION

PARCEL 2, PORTION OF THE LANDS OF B. C. RINGER, RECORDED 7/8/71, BK 43, PG 90 BERNALILLO COUNTY, NEW MEXICO

ACS BENCHMARK

CITY OF ALBUQUERQUE STATION NO. "1-25-17", BEING AN ACS MONUMENT, WITH AN ELEVATION OF 5171.1

SURVEY NOTES

FIELD SURVEY BY:
RIO GRANDE SURVEY
ALBUQUERQUE, NM

SURVEY DATE: NOV. 2003
PHONE: (505) 764-8881
FAX: (505) 764-8881

LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON INFORMATION SUPPLIED TO THE SURVEYOR BY THE APPROPRIATE UTILITY COMPANIES. NEITHER THE ENGINEER OR SURVEYOR GUARANTEES THESE LOCATIONS NOR THE FACT THAT SOME UTILITIES MIGHT BE LEFT OUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.

THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE USED BY THE OWNER AS SUCH.

FLOODPLAIN

THE PROPERTY SHOWN HEREON IS ADJACENT TO A ZONE "AO (DEPTH 1') DESIGNATED FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, COMMUNITY-PANEL NO. 350010D0361 E; EFFECTIVE DATE NOVEMBER 19, 2003

AFRA Construction
& Design LLC
7004 Avenida La Cueva NE
Albuquerque, New Mexico 87109
Tel 505.315.1492

Holiday Inn
I-25 & JEFFERSON
ALBUQUERQUE, NM 87109

REV	DATE	DESCRIPTION	APVD
1			
2			
3			
4			

C2

APPENDIX A

AHYMO INPUT
AHYMO SUMMARY OUTPUT
AHYMO DETAILED OUTPUT

Rating Table Report
Existing 36" CMP Culvert

Range Data:

	Minimum	Maximum	Increment
Allowable HW Elev:	0.00	10.00	0.50 ft

HW Elev (ft)	Discharge (cfs)
0.00	0.00
0.50	0.00
1.00	0.00
1.50	0.00
2.00	0.00
2.50	0.00
3.00	0.00
3.50	0.00
4.00	0.00
4.50	0.00
5.00	0.00
5.50	0.00
6.00	0.00
6.50	0.00
7.00	0.00
7.50	0.00
8.00	0.00
8.50	0.00
9.00	0.00
9.50	0.00
10.00	0.00

© Haestad Methods, Inc.
Larry Read & Associates, Inc
37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02c RUN DATE (MON/DAY/YR) =12/09/2004
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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										
*S	COMPUTE 100 YR. 6 HR. HYDROGRAPHS FOR THE HOLIDAY INN									TIME= .00
*S	JEFFERSON.DAT - HYMO PER JAN 1993 DPM REVISIONS									
*S	----------									
RAINFALL	TYPE= 1									
*S	----------									RAIN6= 2.350
*S	----------									
*S	COMPUTE RUNOFF FOR ALL BASINS									
*S	----------									
*S	DRAINAGE BASINS - EXISTING CONDITIONS									
*S	- - -

```
COMPUTE NM HYD        105.00    -     5        .00880        25.35         .938    1.99867    1.500     4.501 PER IMP=    90.00
*S
*S--------------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH POND ON ABF TRUCKING PROPERTY - MAIN SITE
*S--------------------------------------------------------------------------------
ROUTE RESERVOIR       151.11     4    51        .02260        19.85        2.409    1.99866    1.890     1.372 AC-FT=     1.186
*S--------------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH POND ON ABF TRUCKING PROPERTY - WEST PARKING
*S--------------------------------------------------------------------------------
ROUTE RESERVOIR       152.11     5    52        .00880        14.54         .938    1.99864    1.650     2.582 AC-FT=      .381
ADD HYD               193.10 51&52    93        .03140        32.38        3.347    1.99857    1.680     1.611
*S--------------------------------------------------------------------------------
*S  TOTAL DISCHARGE FROM APF TRUCKING SITE
*S--------------------------------------------------------------------------------
*S--------------------------------------------------------------------------------
*S ROUTE RUNOFF THROUGH EXISTING CHANNEL BESIDE ROAD TO JEFFERSON
*S--------------------------------------------------------------------------------
*S
ROUTE                 264.10    93    64        .03140        30.84        3.347    1.99858    1.800     1.534
*S
ADD HYD               160.10  1& 2    80        .00489        11.79         .398    1.52456    1.500     3.767
ADD HYD               159.10 80& 3    59        .00929        24.47         .867    1.74909    1.500     4.116
ADD HYD               181.10 59&64    81        .04069        41.10        4.214    1.94160    1.620     1.578
ADD HYD               182.10 81& 6    82        .04389        46.91        4.555    1.94576    1.590     1.670
ADD HYD               183.10 82& 7    83        .04850        58.21        5.046    1.95079    1.530     1.875
ADD HYD               184.10 83& 8    84        .04910        59.90        5.110    1.95137    1.530     1.906
ADD HYD               185.10 84& 9    85        .05340        71.88        5.569    1.95517    1.530     2.103
ADD HYD               186.10 85&10    86        .05817        85.13        6.076    1.95873    1.530     2.287
*S--------------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25 - EXISTING CONDITIONS
*S--------------------------------------------------------------------------------
ROUTE RESERVOIR       190.11    86    90        .05817        50.25        6.076    1.95873    1.920     1.350 AC-FT=      .942
*S
*S
*S
*S--------------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25 - DEVELOPED CONDITIONS
*S--------------------------------------------------------------------------------
*S
ADD HYD               180.10 11& 2    40        .00489        14.11         .521    1.99857    1.500     4.509
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ADD HYD               181.10 58&64    41        .04069        42.23        4.337    1.99857    1.620     1.622
ADD HYD               182.10 41& 6    42        .04389        48.26        4.678    1.99857    1.590     1.718
ADD HYD               183.10 42& 7    43        .04850        60.34        5.170    1.99857    1.530     1.944
ADD HYD               184.10 43& 8    44        .04910        62.03        5.234    1.99857    1.530     1.974
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ADD HYD               186.10 45&10    46        .05817        87.26        6.200    1.99858    1.530     2.344
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*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25
*S--------------------------------------------------------------------------------
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*S
FINISH
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*S     JEFFERSON.DAT      -    HYMO PER JAN 1993 DPM REVISIONS
*S  ------------------------------------------------------------------------
*S  ------------------------------------------------------------------------
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                     RAIN DAY=2.75 DT=0.03

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*S  ------------------------------------------------------------------------
*S  ------------------------------------------------------------------------
*S  COMPUTE RUNOFF FOR ALL BASINS
*S  ------------------------------------------------------------------------
*S  DRAINAGE BASINS - EXISTING CONDITIONS
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  BASIN 1 - SITE
*S
COMPUTE NM HYD       ID=1    HYD NO= 101.0    DA=0.00266 SQ MI
                     PER A=0 PER B=0 PER C=100   PER D=0 TP=-.133
                     RAIN=-1

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     UNIT PEAK =    7.6709     CFS    UNIT VOLUME =     .9982        B =    383.55       P60 = 2.0100
     AREA =       .002660 SQ MI     IA =     .35000 INCHES     INF =     .83000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =    .030000
PRINT HYD            ID=1       CODE=10

                              PARTIAL HYDROGRAPH   101.00

     TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW
      HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS
     .000        .0          .900        .0         1.800       1.6         2.700        .1
     .300        .0         1.200        .0         2.100        .5         3.000        .0
     .600        .0         1.500       5.4         2.400        .2         3.300        .0

     RUNOFF VOLUME =      1.12724 INCHES      =         .1599 ACRE-FEET
     PEAK DISCHARGE RATE =        5.35 CFS  AT    1.500 HOURS   BASIN AREA =    .0027 SQ. MI.


*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  BASIN 2 - Z-STORAGE
*S
COMPUTE NM HYD       ID=2    HYD NO= 102.0    DA=0.00223 SQ MI
                     PER A=0 PER B=5 PER C=5   PER D=90 TP=-.133
                     RAIN=-1

     K =    .072485HR     TP =    .133000HR     K/TP RATIO =    .545000      SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =    7.9416     CFS    UNIT VOLUME =     .9985        B =    526.28       P60 = 2.0100
     AREA =       .002007 SQ MI     IA =     .10000 INCHES     INF =     .04000 INCHES PER HOUR
```

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = .58933 CFS UNIT VOLUME = .9773 B = 351.48 P60 = 2.0100
AREA = .000223 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=2 CODE=10

PARTIAL HYDROGRAPH 102.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	6.4	3.000	.1	4.500	.0	6.000	.0
.300	.0	1.800	2.3	3.300	.0	4.800	.0	6.300	.0
.600	.0	2.100	1.1	3.600	.0	5.100	.0	6.600	.0
.900	.0	2.400	.3	3.900	.0	5.400	.0		
1.200	.1	2.700	.1	4.200	.0	5.700	.0		

RUNOFF VOLUME = 1.99867 INCHES = .2377 ACRE-FEET
PEAK DISCHARGE RATE = 6.44 CFS AT 1.500 HOURS BASIN AREA = .0022 SQ. MI.

*S -
*S BASIN 3 - CHAMPION BUILDING
*S
COMPUTE NM HYD ID=3 HYD NO= 103.0 DA=0.00440 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 15.670 CFS UNIT VOLUME = .9992 B = 526.28 P60 = 2.0100
AREA = .003960 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = 1.1628 CFS UNIT VOLUME = .9884 B = 351.48 P60 = 2.0100
AREA = .000440 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=3 CODE=10

PARTIAL HYDROGRAPH 103.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	12.7	3.000	.1	4.500	.1	6.000	.1
.300	.0	1.800	4.5	3.300	.1	4.800	.1	6.300	.0
.600	.0	2.100	2.2	3.600	.1	5.100	.1	6.600	.0
.900	.0	2.400	.5	3.900	.1	5.400	.1		
1.200	.2	2.700	.2	4.200	.1	5.700	.1		

RUNOFF VOLUME = 1.99867 INCHES = .4690 ACRE-FEET
PEAK DISCHARGE RATE = 12.68 CFS AT 1.500 HOURS BASIN AREA = .0044 SQ. MI.

```
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  BASIN 6 - MONEYSWORTH AUTOMOTIVE COMPLEX
*S
COMPUTE NM HYD       ID=6   HYD NO= 106.0   DA=0.003200 SQ MI
                     PER A=0 PER B=5 PER C=5  PER D=90 TP=-.133
                     RAIN=-1

     K =   .072485HR    TP =   .133000HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   11.396    CFS   UNIT VOLUME =    .9988       B =   526.28      P60 = 2.0100
     AREA =      .002880 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .030000


     K =   .119497HR    TP =   .133000HR    K/TP RATIO =   .898476     SHAPE CONSTANT, N =  3.944947
     UNIT PEAK =   .84567    CFS   UNIT VOLUME =    .9838       B =   351.48      P60 = 2.0100
     AREA =      .000320 SQ MI    IA =    .42500 INCHES    INF =   1.04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .030000

PRINT HYD            ID=6      CODE=10

                              PARTIAL HYDROGRAPH   106.00

     TIME    FLOW        TIME    FLOW        TIME    FLOW        TIME    FLOW        TIME    FLOW
      HRS     CFS         HRS     CFS         HRS     CFS         HRS     CFS         HRS     CFS
      .000      .0      1.500     9.2       3.000      .1      4.500      .0      6.000      .1
      .300      .0      1.800     3.3       3.300      .1      4.800      .1      6.300      .0
      .600      .0      2.100     1.6       3.600      .1      5.100      .1      6.600      .0
      .900      .0      2.400      .4       3.900      .1      5.400      .1
     1.200      .2      2.700      .2       4.200      .1      5.700      .1

     RUNOFF VOLUME =     1.99867 INCHES      =        .3411 ACRE-FEET
     PEAK DISCHARGE RATE =       9.23 CFS  AT   1.500 HOURS   BASIN AREA =    .0032 SQ. MI.


*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  BASIN 7 - FANTASY WORLD AREA
*S
COMPUTE NM HYD       ID=7   HYD NO= 107.0   DA=0.004613 SQ MI
                     PER A=0 PER B=5 PER C=5  PER D=90 TP=-.133
                     RAIN=-1

     K =   .072485HR    TP =   .133000HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   16.428    CFS   UNIT VOLUME =    .9992       B =   526.28      P60 = 2.0100
     AREA =      .004152 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .030000


     K =   .119497HR    TP =   .133000HR    K/TP RATIO =   .898476     SHAPE CONSTANT, N =  3.944947
     UNIT PEAK =   1.2191    CFS   UNIT VOLUME =    .9894       B =   351.48      P60 = 2.0100
     AREA =      .000461 SQ MI    IA =    .42500 INCHES    INF =   1.04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .030000
```

PRINT HYD ID=7 CODE=10

PARTIAL HYDROGRAPH 107.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	13.3	3.000	.1	4.500	.1	6.000	.1
.300	.0	1.800	4.7	3.300	.1	4.800	.1	6.300	.0
.600	.0	2.100	2.3	3.600	.1	5.100	.1	6.600	.0
.900	.0	2.400	.6	3.900	.1	5.400	.1		
1.200	.2	2.700	.3	4.200	.1	5.700	.1		

RUNOFF VOLUME = 1.99867 INCHES = .4917 ACRE-FEET
PEAK DISCHARGE RATE = 13.30 CFS AT 1.500 HOURS BASIN AREA = .0046 SQ. MI.

*S -
*S BASIN 8 - FANTASY WORLD WEST PARKING AND LANDSCAPE AREA
*S
COMPUTE NM HYD ID=8 HYD NO= 108.0 DA=0.000601 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 2.1403 CFS UNIT VOLUME = .9944 B = 526.28 P60 = 2.0100
AREA = .000541 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = .15883 CFS ' UNIT VOLUME = .9131 B = 351.48 P60 = 2.0100
AREA = .000060 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=8 CODE=10

PARTIAL HYDROGRAPH 108.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	1.7	3.000	.0	4.500	.0	6.000	.0
.300	.0	1.800	.6	3.300	.0	4.800	.0	6.300	.0
.600	.0	2.100	.3	3.600	.0	5.100	.0		
.900	.0	2.400	.1	3.900	.0	5.400	.0		
1.200	.0	2.700	.0	4.200	.0	5.700	.0		

RUNOFF VOLUME = 1.99867 INCHES = .0641 ACRE-FEET
PEAK DISCHARGE RATE = 1.75 CFS AT 1.500 HOURS BASIN AREA = .0006 SQ. MI.

*S -
*S BASIN 9 - TRUCK TRAILER SALES AND REPAIR SOUTH AREA
*S
COMPUTE NM HYD ID=9 HYD NO= 109.0 DA=0.004300 SQ MI

PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 15.313 CFS UNIT VOLUME = .9991 B = 526.28 P60 = 2.0100
AREA = .003870 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = 1.1364 CFS UNIT VOLUME = .9884 B = 351.48 P60 = 2.0100
AREA = .000430 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=9 CODE=10

PARTIAL HYDROGRAPH 109.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	12.4	3.000	.1	4.500	.1	6.000	.1
.300	.0	1.800	4.4	3.300	.1	4.800	.1	6.300	.0
.600	.0	2.100	2.2	3.600	.1	5.100	.1	6.600	.0
.900	.0	2.400	.5	3.900	.1	5.400	.1		
1.200	.2	2.700	.2	4.200	.1	5.700	.1		

RUNOFF VOLUME = 1.99867 INCHES = .4584 ACRE-FEET
PEAK DISCHARGE RATE = 12.40 CFS AT 1.500 HOURS BASIN AREA = .0043 SQ. MI.

*S - - -

```
      .600        .0          1.500        5.4          2.400        .2          3.300        .0

    RUNOFF VOLUME =      1.12724 INCHES      =         .1599 ACRE-FEET
    PEAK DISCHARGE RATE =        5.35 CFS  AT    1.500 HOURS    BASIN AREA =    .0027 SQ. MI.


*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  ONSITE DRAINAGE BASIN - DEVELOPED
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  BASIN 11 - SITE
*S
COMPUTE NM HYD       ID=11   HYD NO= 111.0   DA=0.00266 SQ MI
                     PER A=0 PER B=5 PER C=5  PER D=90 TP=-.133
                     RAIN=-1

     K =    .072485HR     TP =    .133000HR     K/TP RATIO =    .545000      SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =    9.4730     CFS    UNIT VOLUME =     .9987        B =    526.28       P60 = 2.0100
     AREA =       .002394 SQ MI     IA =     .10000 INCHES     INF =     .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =    .030000


     K =    .119497HR     TP =    .133000HR     K/TP RATIO =    .898476      SHAPE CONSTANT, N =  3.944947
     UNIT PEAK =    .70296     CFS    UNIT VOLUME =     .9808        B =    351.48       P60 = 2.0100
     AREA =       .000266 SQ MI     IA =     .42500 INCHES     INF =    1.04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =    .030000

PRINT HYD            ID=11     CODE=10

                                PARTIAL HYDROGRAPH   111.00
      TIME       FLOW          TIME       FLOW          TIME       FLOW          TIME       FLOW          TIME       FLOW
       HRS        CFS           HRS        CFS           HRS        CFS           HRS        CFS           HRS        CFS
      .000         .0          1.500         7.7         3.000         .1         4.500         .0         6.000         .1
      .300         .0          1.800         2.7         3.300         .1         4.800         .0         6.300         .0
      .600         .0          2.100         1.3         3.600         .0         5.100         .0         6.600         .0
      .900         .0          2.400          .3         3.900         .0         5.400         .0
     1.200         .1          2.700          .1         4.200         .0         5.700         .0

    RUNOFF VOLUME =      1.99867 INCHES      =         .2835 ACRE-FEET
    PEAK DISCHARGE RATE =        7.67 CFS  AT    1.500 HOURS    BASIN AREA =    .0027 SQ. MI.


*S
*S  BASIN 4 - ABF TRUCKING - MAIN SITE
*S
COMPUTE NM HYD       ID=4    HYD NO= 104.0   DA=0.02260 SQ MI
                     PER A=0 PER B=5 PER C=5  PER D=90 TP=-.133
                     RAIN=-1

     K =    .072485HR     TP =    .133000HR     K/TP RATIO =    .545000      SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =    80.485     CFS    UNIT VOLUME =     .9997        B =    526.28       P60 = 2.0100
     AREA =       .020340 SQ MI     IA =     .10000 INCHES     INF =     .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =    .030000
```

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = 5.9726 CFS UNIT VOLUME = .9979 B = 351.48 P60 = 2.0100
AREA = .002260 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=4 CODE=10

PARTIAL HYDROGRAPH 104.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	65.1	3.000	.7	4.500	.4	6.000	.4
.300	.0	1.800	23.1	3.300	.5	4.800	.4	6.300	.1
.600	.0	2.100	11.4	3.600	.4	5.100	.4	6.600	.0
.900	.0	2.400	2.7	3.900	.4	5.400	.4	6.900	.0
1.200	1.1	2.700	1.3	4.200	.4	5.700	.4		

RUNOFF VOLUME = 1.99867 INCHES = 2.4091 ACRE-FEET
PEAK DISCHARGE RATE = 65.07 CFS AT 1.500 HOURS BASIN AREA = .0226 SQ. MI.

*S BASIN 4A - ABF TRUCKING - WEST PARKING LOT
*S
COMPUTE NM HYD ID=5 HYD NO= 105.0 DA=0.0088 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 31.339 CFS UNIT VOLUME = .9995 B = 526.28 P60 = 2.0100
AREA = .007920 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = 2.3256 CFS UNIT VOLUME = .9941 B = 351.48 P60 = 2.0100
AREA = .000880 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=5 CODE=10

PARTIAL HYDROGRAPH 105.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	25.3	3.000	.3	4.500	.1	6.000	.2
.300	.0	1.800	9.0	3.300	.2	4.800	.1	6.300	.0
.600	.0	2.100	4.4	3.600	.2	5.100	.1	6.600	.0
.900	.0	2.400	1.1	3.900	.1	5.400	.1	6.900	.0
1.200	.4	2.700	.5	4.200	.1	5.700	.2		

RUNOFF VOLUME = 1.99867 INCHES = .9380 ACRE-FEET
PEAK DISCHARGE RATE = 25.35 CFS AT 1.500 HOURS BASIN AREA = .0088 SQ. MI.

```
*S
*S--------------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH POND ON ABF TRUCKING PROPERTY - MAIN SITE
*S--------------------------------------------------------------------------------
ROUTE RESERVOIR      ID=51  HYD NO=151.11 INFLOW ID=4  CODE=10
                     OUTFLOW (CFS)    STORAGE (AC FT)    ELEV (FT)
                          0.00             0.0000           86.84
                         24.78             1.4804           87.48
                         25.53             3.7574           88.00

  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *

    TIME       INFLOW     ELEV       VOLUME     OUTFLOW
    (HRS)      (CFS)      (FEET)     (AC-FT)    (CFS)

      .00         .00      86.84        .000        .00
      .30         .00      86.84        .000        .00
      .60         .00      86.84        .000        .00
      .90         .00      86.84        .000        .00
     1.20        1.12      86.84        .002        .03
     1.50       65.07      87.10        .605      10.13
     1.80       23.11      87.35       1.176      19.69
     2.10       11.37      87.32       1.121      18.77
     2.40        2.73      87.20        .844      14.12
     2.70        1.28      87.10        .594       9.95
     3.00         .75      87.02        .412       6.89
     3.30         .51      86.96        .284       4.76
     3.60         .42      86.93        .197       3.30
     3.90         .37      86.90        .138       2.31
     4.20         .35      86.88        .098       1.65
     4.50         .35      86.87        .072       1.21
     4.80         .35      86.86        .055        .92
     5.10         .36      86.86        .043        .73
     5.40         .38      86.86        .036        .61
     5.70         .40      86.85        .032        .54
     6.00         .43      86.85        .030        .50
     6.30         .06      86.85        .024        .40
     6.60         .01      86.85        .016        .28
     6.90         .00      86.84        .011        .18
     7.20         .00      86.84        .007        .12
     7.50         .00      86.84        .005        .08
     7.80         .00      86.84        .003        .05
     8.10         .00      86.84        .002        .04
     8.40         .00      86.84        .001        .02
     8.70         .00      86.84        .001        .02
     9.00         .00      86.84        .001        .01
     9.30         .00      86.84        .000        .01
     9.60         .00      86.84        .000        .00
 PEAK DISCHARGE =       19.849 CFS - PEAK OCCURS AT HOUR    1.89
 MAXIMUM WATER SURFACE ELEVATION =       87.353
 MAXIMUM STORAGE =        1.1858 AC-FT      INCREMENTAL TIME=      .030000HRS

PRINT HYD            ID=51 CODE=10

                                PARTIAL HYDROGRAPH   151.11

     TIME       FLOW          TIME       FLOW          TIME       FLOW          TIME       FLOW          TIME       FLOW
```

HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
.000	.0	2.400	14.1	4.800	.9	7.200	.1	9.600	.0
.300	.0	2.700	9.9	5.100	.7	7.500	.1	9.900	.0
.600	.0	3.000	6.9	5.400	.6	7.800	.1	10.200	.0
.900	.0	3.300	4.8	5.700	.5	8.100	.0	10.500	.0
1.200	.0	3.600	3.3	6.000	.5	8.400	.0		
1.500	10.1	3.900	2.3	6.300	.4	8.700	.0		
1.800	19.7	4.200	1.6	6.600	.3	9.000	.0		
2.100	18.8	4.500	1.2	6.900	.2	9.300	.0		

RUNOFF VOLUME = 1.99866 INCHES = 2.4090 ACRE-FEET
PEAK DISCHARGE RATE = 19.85 CFS AT 1.890 HOURS BASIN AREA = .0226 SQ. MI.

```
*S--------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH POND ON ABF TRUCKING PROPERTY - WEST PARKING
*S--------------------------------------------------------------------------
ROUTE RESERVOIR     ID=52  HYD NO=152.11 INFLOW ID=5  CODE=10
                    OUTFLOW (CFS)   STORAGE (AC FT)   ELEV (FT)
                        0.00             0.0000          77.50
                        3.56             0.3270          78.00
                      103.06             0.8174          78.25

  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
```

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	77.50	.000	.00
.30	.00	77.50	.000	.00
.60	.00	77.50	.000	.00
.90	.00	77.50	.000	.00
1.20	.44	77.50	.001	.01
1.50	25.35	77.88	.245	2.67
1.80	9.00	78.02	.361	10.47
2.10	4.43	78.00	.337	5.50
2.40	1.06	77.95	.295	3.21
2.70	.50	77.87	.241	2.62
3.00	.28	77.79	.192	2.09
3.30	.20	77.73	.152	1.65
3.60	.16	77.68	.120	1.30
3.90	.15	77.64	.095	1.03
4.20	.14	77.62	.075	.82
4.50	.14	77.59	.060	.66
4.80	.14	77.58	.049	.53
5.10	.14	77.56	.041	.44
5.40	.15	77.55	.034	.37
5.70	.16	77.54	.029	.32
6.00	.17	77.54	.026	.28
6.30	.02	77.53	.022	.24
6.60	.01	77.53	.017	.18
6.90	.00	77.52	.013	.14
7.20	.00	77.52	.010	.11
7.50	.00	77.51	.008	.08
7.80	.00	77.51	.006	.06
8.10	.00	77.51	.004	.05

8.40	.00	77.51	.003	.04
8.70	.00	77.50	.003	.03
9.00	.00	77.50	.002	.02
9.30	.00	77.50	.001	.02
9.60	.00	77.50	.001	.01
9.90	.00	77.50	.001	.01
10.20	.00	77.50	.001	.01
10.50	.00	77.50	.001	.01
10.80	.00	77.50	.000	.00

PEAK DISCHARGE = 14.540 CFS - PEAK OCCURS AT HOUR 1.65
MAXIMUM WATER SURFACE ELEVATION = 78.028
MAXIMUM STORAGE = .3811 AC-FT INCREMENTAL TIME= .030000HRS

PRINT HYD ID=52 CODE=10

PARTIAL HYDROGRAPH 152.11

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	2.6	5.400	.4	8.100	.0	10.800	.0
.300	.0	3.000	2.1	5.700	.3	8.400	.0	11.100	.0
.600	.0	3.300	1.7	6.000	.3	8.700	.0	11.400	.0
.900	.0	3.600	1.3	6.300	.2	9.000	.0	11.700	.0
1.200	.0	3.900	1.0	6.600	.2	9.300	.0	12.000	.0
1.500	2.7	4.200	.8	6.900	.1	9.600	.0	12.300	.0
1.800	10.5	4.500	.7	7.200	.1	9.900	.0		
2.100	5.5	4.800	.5	7.500	.1	10.200	.0		
2.400	3.2	5.100	.4	7.800	.1	10.500	.0		

RUNOFF VOLUME = 1.99864 INCHES = .9380 ACRE-FEET
PEAK DISCHARGE RATE = 14.54 CFS AT 1.650 HOURS BASIN AREA = .0088 SQ. MI.

ADD HYD ID=93 HYD NO = 193.1 ID I = 51 ID II = 52
*S----------
*S TOTAL DISCHARGE FROM APF TRUCKING SITE
*S----------
PRINT HYD ID=93 CODE=10

PARTIAL HYDROGRAPH 193.10

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	12.6	5.400	1.0	8.100	.1	10.800	.0
.300	.0	3.000	9.0	5.700	.9	8.400	.1	11.100	.0
.600	.0	3.300	6.4	6.000	.8	8.700	.0	11.400	.0
.900	.0	3.600	4.6	6.300	.6	9.000	.0	11.700	.0
1.200	.0	3.900	3.3	6.600	.5	9.300	.0	12.000	.0
1.500	12.8	4.200	2.5	6.900	.3	9.600	.0	12.300	.0
1.800	30.2	4.500	1.9	7.200	.2	9.900	.0		
2.100	24.3	4.800	1.5	7.500	.2	10.200	.0		
2.400	17.3	5.100	1.2	7.800	.1	10.500	.0		

RUNOFF VOLUME = 1.99857 INCHES = 3.3469 ACRE-FEET
PEAK DISCHARGE RATE = 32.38 CFS AT 1.680 HOURS BASIN AREA = .0314 SQ. MI.

```
*S-------------------------------------------------------------------------
*S ROUTE RUNOFF THROUGH EXISTING CHANNEL BESIDE ROAD TO JEFFERSON
*S-------------------------------------------------------------------------
COMPUTE RATING CURVE  CID=1  VS NO=11 NO SEGS=1
                      MIN ELEV=100 MAX ELEV=101.50
                      CHNL SLP=0.0164  FP SLP=0.0164 N=0.017 DIST=54.5
                      DIST  ELEV     DIST   ELEV     DIST    ELEV
                       0    101.50   0.5    101.00   1.50    100.00
                      4.50  100.0    4.51   101.00   54.5    101.50

                                RATING CURVE VALLEY SECTION 11.0
                                   WATER        FLOW         FLOW         TOP
                                  SURFACE       AREA         RATE        WIDTH
                                   ELEV        SQ FT         CFS          FT
                                  100.00         .00           .00         3.00
                                  100.08         .24           .48         3.08
                                  100.16         .49          1.49         3.16
                                  100.24         .74          2.89         3.24
                                  100.32        1.00          4.61         3.32
                                  100.39        1.26          6.61         3.40
                                  100.47        1.53          8.86         3.48
                                  100.55        1.81         11.34         3.56
                                  100.63        2.10         14.05         3.64
                                  100.71        2.39         16.97         3.72
                                  100.79        2.68         20.09         3.80
                                  100.87        2.99         23.41         3.88
                                  100.95        3.30         26.92         3.96
                                  101.03        3.65         24.00         6.67
                                  101.11        4.49         21.44        14.64
                                  101.18        5.96         26.27        22.61
                                  101.26        8.06         35.89        30.59
                                  101.34       10.79         50.31        38.56
                                  101.42       14.15         70.02        46.53
                                  101.50       18.13         95.60        54.50
*S
COMPUTE TRAVEL TIME ID=63 REACH NO=1 NO VS=1 L=996 FT
                    SLP=0.0164

                                TRAVEL TIME TABLE
                                          REACH=  1.0

                                WATER        AVERAGE      FLOW         TRAVEL
                                DEPTH        AREA         RATE         TIME
                                FEET         SQ.FT.       CFS          HRS
                                   .079          .240          .48        .1387
                                   .158          .486         1.49        .0900
                                   .237          .739         2.89        .0707
                                   .316          .998         4.61        .0599
                                   .395         1.263         6.61        .0529
                                   .474         1.534         8.86        .0479
                                   .553         1.812        11.34        .0442
                                   .632         2.096        14.05        .0413
                                   .711         2.387        16.97        .0389
                                   .789         2.683        20.09        .0370
                                   .868         2.986        23.41        .0353
```

.947	3.295	26.92	.0339
.882	3.038	24.00	.0350
.822	2.807	21.44	.0362
.933	3.239	26.27	.0341
1.263	8.058	35.89	.0621
1.342	10.787	50.31	.0593
1.421	14.146	70.02	.0559
1.500	18.134	95.60	.0525

ROUTE ID=64 HYD=264.1 IN ID=93 DT=0.0
PROBLEM FAILED TO CONVERGE AFTER 50 ITERATIONS. CONVERGENCE WAS FORCED. OUTFLOW NUMBER = 70 RATE = 26.25
PRINT HYD ID=64 CODE=10

PARTIAL HYDROGRAPH 264.10

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	13.0	5.400	1.0	8.100	.1	10.800	.0
.300	.0	3.000	9.3	5.700	.9	8.400	.1	11.100	.0
.600	.0	3.300	6.7	6.000	.8	8.700	.1	11.400	.0
.900	.0	3.600	4.8	6.300	.7	9.000	.0	11.700	.0
1.200	.0	3.900	3.5	6.600	.5	9.300	.0	12.000	.0
1.500	9.8	4.200	2.6	6.900	.4	9.600	.0	12.300	.0
1.800	30.8	4.500	2.0	7.200	.3	9.900	.0		
2.100	26.5	4.800	1.5	7.500	.2	10.200	.0		
2.400	17.8	5.100	1.2	7.800	.1	10.500	.0		

RUNOFF VOLUME = 1.99858 INCHES = 3.3469 ACRE-FEET
PEAK DISCHARGE RATE = 30.84 CFS AT 1.800 HOURS BASIN AREA = .0314 SQ. MI.

*S
ADD HYD ID=80 HYD NO = 160.1 ID I = 1 ID II = 2
ADD HYD ID=59 HUD NO = 159.1 ID I = 80 ID II = 3
ADD HYD ID=81 HYD NO = 181.1 ID I = 59 ID II = 64
ADD HYD ID=82 HYD NO = 182.1 ID I = 81 ID II = 6
ADD HYD ID=83 HYD NO = 183.1 ID I = 82 ID II = 7
ADD HYD ID=84 HYD NO = 184.1 ID I = 83 ID II = 8
ADD HYD ID=85 HYD NO = 185.1 ID I = 84 ID II = 9
ADD HYD ID=86 HYD NO = 186.1 ID I = 85 ID II = 10
*S----------
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25 - EXISTING CONDITIONS
*S----------
ROUTE RESERVOIR ID=90 HYD NO=190.11 INFLOW ID=86 CODE=10

OUTFLOW (CFS)	STORAGE (AC FT)	ELEV (FT)
0.00	0.0000	52.50
4.00	0.00008	53.00
14.2	0.0070	54.00
26.8	0.0666	55.00
35.3	0.1718	56.00
40.8	0.2914	57.00
45.7	0.5615	58.00
50.3	0.9464	59.00
54.5	1.5043	60.00
58.5	2.0313	61.00
62.2	2.4502	62.00

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	52.50	.000	.00
.30	.00	52.50	.000	.00
.60	.00	52.50	.000	.00
.90	.00	52.50	.000	.00
1.20	1.20	52.65	.000	1.19
1.50	84.64	57.16	.334	41.58
1.80	57.12	58.90	.906	49.82
2.10	39.10	58.80	.870	49.38
2.40	20.87	57.35	.387	42.53
2.70	14.36	54.29	.024	17.83
3.00	10.09	53.61	.004	10.18
3.30	7.21	53.32	.002	7.27
3.60	5.26	53.13	.001	5.30
3.90	3.90	52.99	.000	3.89
4.20	2.94	52.87	.000	2.94
4.50	2.33	52.79	.000	2.33
4.80	1.90	52.74	.000	1.90
5.10	1.59	52.70	.000	1.59
5.40	1.42	52.68	.000	1.42
5.70	1.31	52.66	.000	1.31
6.00	1.26	52.66	.000	1.26
6.30	.75	52.59	.000	.75
6.60	.54	52.57	.000	.54
6.90	.38	52.55	.000	.38
7.20	.27	52.53	.000	.27
7.50	.19	52.52	.000	.19
7.80	.14	52.52	.000	.14
8.10	.10	52.51	.000	.10
8.40	.07	52.51	.000	.07
8.70	.05	52.51	.000	.05
9.00	.04	52.50	.000	.04
9.30	.03	52.50	.000	.03
9.60	.02	52.50	.000	.02
9.90	.01	52.50	.000	.01
10.20	.01	52.50	.000	.01
10.50	.01	52.50	.000	.01
10.80	.01	52.50	.000	.01
11.10	.00	52.50	.000	.00

PEAK DISCHARGE = 50.246 CFS - PEAK OCCURS AT HOUR 1.92
MAXIMUM WATER SURFACE ELEVATION = 58.988
MAXIMUM STORAGE = .9419 AC-FT INCREMENTAL TIME= .030000HRS

PRINT HYD ID=90 CODE=10

PARTIAL HYDROGRAPH 190.11

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	17.8	5.400	1.4	8.100	.1	10.800	.0
.300	.0	3.000	10.2	5.700	1.3	8.400	.1	11.100	.0
.600	.0	3.300	7.3	6.000	1.3	8.700	.1	11.400	.0
.900	.0	3.600	5.3	6.300	.8	9.000	.0	11.700	.0

1.200	1.2	3.900	3.9	6.600	.5	9.300	.0	12.000	.0										
1.500	41.6	4.200	2.9	6.900	.4	9.600	.0	12.300	.0										
1.800	49.8	4.500	2.3	7.200	.3	9.900	.0												
2.100	49.4	4.800	1.9	7.500	.2	10.200	.0												
2.400	42.5	5.100	1.6	7.800	.1	10.500	.0												

RUNOFF VOLUME = 1.95873 INCHES = 6.0763 ACRE-FEET
PEAK DISCHARGE RATE = 50.25 CFS AT 1.920 HOURS BASIN AREA = .0582 SQ. MI.

```
*S
*S
*S
*S--------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25 - DEVELOPED CONDITIONS
*S--------------------------------------------------------------------
*S
ADD HYD              ID=40   HYD NO = 180.1 ID I = 11 ID II = 2
ADD HYD              ID=58   HYD NO = 158.1 ID I = 40 ID II = 3
ADD HYD              ID=41   HYD NO = 181.1 ID I = 58 ID II = 64
ADD HYD              ID=42   HYD NO = 182.1 ID I = 41 ID II = 6
ADD HYD              ID=43   HYD NO = 183.1 ID I = 42 ID II = 7
ADD HYD              ID=44   HYD NO = 184.1 ID I = 43 ID II = 8
ADD HYD              ID=45   HYD NO = 185.1 ID I = 44 ID II = 9
ADD HYD              ID=46   HYD NO = 186.1 ID I = 45 ID II = 10
*S--------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25
*S--------------------------------------------------------------------
ROUTE RESERVOIR      ID=21  HYD NO=140.11 INFLOW ID=46  CODE=10
                     OUTFLOW (CFS)   STORAGE (AC FT)   ELEV (FT)
                          0.00            0.0000          52.50
                          4.00            0.0258          53.00
                          14.2            0.0674          54.00
                          26.8            0.1386          55.00
                          35.3            0.1635          56.00
                          40.8            0.2180          57.00
                          45.7            0.3784          58.00
                          50.3            0.6027          59.00
                          54.5            0.9542          60.00
```

* * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	52.50	.000	.00
.30	.00	52.50	.000	.00
.60	.00	52.50	.000	.00
.90	.00	52.50	.000	.00
1.20	1.33	52.54	.002	.29
1.50	86.96	58.00	.378	45.70
1.80	58.24	59.79	.880	53.62
2.10	39.96	59.52	.785	52.48
2.40	21.04	57.28	.263	42.16
2.70	14.44	54.15	.078	16.05
3.00	10.15	53.66	.053	10.75

3.30	7.26	53.36	.041	7.67
3.60	5.31	53.16	.032	5.58
3.90	3.94	53.01	.026	4.13
4.20	2.99	52.90	.021	3.22
4.50	2.38	52.81	.016	2.52
4.80	1.95	52.76	.013	2.05
5.10	1.63	52.71	.011	1.70
5.40	1.47	52.69	.010	1.50
5.70	1.36	52.67	.009	1.39
6.00	1.31	52.67	.009	1.32
6.30	.76	52.61	.006	.88
6.60	.54	52.57	.004	.59
6.90	.38	52.55	.003	.42
7.20	.27	52.54	.002	.30
7.50	.19	52.53	.001	.21
7.80	.14	52.52	.001	.15
8.10	.10	52.51	.001	.11
8.40	.07	52.51	.000	.08
8.70	.05	52.51	.000	.06
9.00	.04	52.51	.000	.04
9.30	.03	52.50	.000	.03
9.60	.02	52.50	.000	.02
9.90	.01	52.50	.000	.02
10.20	.01	52.50	.000	.01
10.50	.01	52.50	.000	.01
10.80	.01	52.50	.000	.01
11.10	.00	52.50	.000	.00

PEAK DISCHARGE = 53.786 CFS - PEAK OCCURS AT HOUR 1.89
MAXIMUM WATER SURFACE ELEVATION = 59.830
MAXIMUM STORAGE = .8945 AC-FT INCREMENTAL TIME= .030000HRS

PRINT HYD ID=21 CODE=10

PARTIAL HYDROGRAPH 140.11

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	16.0	5.400	1.5	8.100	.1	10.800	.0
.300	.0	3.000	10.8	5.700	1.4	8.400	.1	11.100	.0
.600	.0	3.300	7.7	6.000	1.3	8.700	.1	11.400	.0
.900	.0	3.600	5.6	6.300	.9	9.000	.0	11.700	.0
1.200	.3	3.900	4.1	6.600	.6	9.300	.0	12.000	.0
1.500	45.7	4.200	3.2	6.900	.4	9.600	.0	12.300	.0
1.800	53.6	4.500	2.5	7.200	.3	9.900	.0		
2.100	52.5	4.800	2.1	7.500	.2	10.200	.0		
2.400	42.2	5.100	1.7	7.800	.2	10.500	.0		

RUNOFF VOLUME = 1.99858 INCHES = 6.1999 ACRE-FEET
PEAK DISCHARGE RATE = 53.79 CFS AT 1.890 HOURS BASIN AREA = .0582 SQ. MI.

*S
FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 13:57:33

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

June 26, 2007

Tafazzul Hussain, Registered Architect
AFRA Construction & Design
2501 Yale Blvd, Ste.102
Albuquerque, NM 87106

Re: Certification Submittal for Final Building Certificate of Occupancy for
Holiday Inn Express, [F-17 / D090]
5050 Jefferson St. NE
Architect's Stamp Dated 06/22/07

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Dear Mr. Hussain:

The TCL / Letter of Certification submitted on June 26, 2007 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

June 25, 2007

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

Mr. James Orwat
FEMA Region VI
FRC 800 North Loop 288
Denton, Texas 76209-3698

RECEIVED
JUN 26 2007
LAND DEVELOPMENT SECTION

RE: Bernalillo County FEMA Maps within the Southwest Valley Area
(Firm Numbers 35001C0533E, 35001C0529E, 35001C0527E)

Dear Mr. Orwat:

On May 24, 2007 representatives from Bernalillo County, the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), City of Albuquerque (COA), Middle Rio Grande Conservancy District (MRGCD), Corps of Engineers (COE), Bureau of Reclamation (BOR), and staff from the Congressional Delegation met with you and Mr. David Patterson with Michael Baker and Associates to discuss the certification of levees used for flood protection within Bernalillo County and in particular the levee on the west side of the Rio Grande from Louise Avenue to the Pueblo of Isleta boundary. The public agencies present at the meeting are very concerned about the aforementioned levee being de-certified by FEMA as a result of the remapping effort completed in 2005.

To resolve this matter, Bernalillo County, the City of Albuquerque, AMAFCA and MRGCD request that FEMA modify the release of the 2005 FIRMS for Bernalillo County and suspend work on remapping the area affected by the levee until the federal appeal process is complete. FEMA would release most all of the 2005 FIRMS, but would not release FIRMS, 35001C0533E, 35001C0529E, 35001C0527E. The 2003 FIRMS would remain in affect including the flood plains shown on the 2003 panels. The request to suspend the remapping effort until the federal appeal process is complete will allow Bernalillo County, the City of Albuquerque and AMAFCA to work with the true levee owner to provide the required certification.

The levee in question has been providing 100 year flood protection as shown on FIRM Panels since 1983, and has been maintained by MRGCD for several decades. Maintenance performed by the MRGCD on this levee section is no different than other "certified" levees throughout Bernalillo County. The levees throughout Bernalillo County were constructed in the 1930's. Portions of the levee system were re-built in the 1960's by the COE and BOR. It appears that this section of levee was not rebuilt by the COE and was built to the standards applicable in 1930's.

MRGCD, City of Albuquerque, Bernalillo County and AMAFCA received a letter dated February 16, 2007 from FEMA signed by William Peterson, essentially stating that the levee owner needed to have a registered professional engineer certify that the subject levee would function and provide protection during a 100-year storm event. The timing of the notification by FEMA has not allowed adequate time to address the levee certification by MRGCD, AMAFCA, Bernalillo County, and the City of Albuquerque. The issue of levee certification was not discussed with MRGCD,

P.O. Box 581
87103-0581
1931 Second St. SW
Albuquerque, NM
87102-4515
505·247·0234
Fax # 505·243·7308

Bernalillo County, the City of Albuquerque or AMAFCA during meetings with URS Corporation in 2004 and 2005 in regards to FEMA's remapping effort.

The MRGCD has been a local sponsor for MRG flood protection project since it owns the land, easement and rights of way required for the project. MRGCD has operated and maintained levees in accordance with standard operating Procedures established by the COE.

In addition, at this time the ownership of the levee is still in question. Ownership of the levee system is currently the subject of an appeal by MRGCD in the Federal 10th Circuit Appellate Court, therefore an immediate certification by the levee owner is not possible until the lawsuit has been decided by the Appellate court.

If FEMA agrees with this approach, then Bernalillo County, the City of Albuquerque, and AMAFCA will agree to work with both the BOR, COE and the local sponsor MRGCD to establish a flood event protocol to inspect, evaluate and, if need be, initiate repairs to the levee during a storm event. This work would be the subject of a joint powers agreement between all parties involved to insure that the levee section in question provides 100 year flood protection.

If you have any additional questions or are in need of additional information, please contact Subhas Shah (MRGCD) at (505) 247-0234, Jerry Lovato (AMAFCA) at (505) 884-2215, or Brad Bingham (City of Albuquerque) (505) 924-3986 and Roger Paul (Bernalillo County) at (505) 848-1515,

Sincerely,

Subhas Shah, P.E.
MRGCD
Chief Executive Officer

John P. Kelly, P.E.
Executive Engineer
AMAFCA

Richard Dourte, P.E.
City Engineer
City of Albuquerque

cc: LTC B. A. Estok, P.E., US Army Corps of Engineers
Ms. Connie L. Rupp, Area Manager, Bureau of Reclamation
Mr. David Patterson, Michael Baker & Associates
U.S. Senator Pete Domenici
U.S. Senator Jeff Bingaman
Congresswoman Heather Wilson

AFRA CONSTRUCTION & DESIGN, LLC
2501 Yale Blvd. Suite 102
Albuquerque, NM 87106
Phone: (505) 243-9093
Fax: (505) 243-1561

TRANSMITTAL

Project: HOLIDAY INN @ 5050 JEFFERSON ST.
To: NILO SALGADO FERNANDEZ, SR. ENG. / DRC / CO PERMITS
From: TAFAZZUL HUSSAIN

We transmit:
[Herewith] Under Separate Cover Via _____
In Accordance With Your Request _____

The Following: [Drawings] Shop Drawings Samples Specifications Proposals
Product Literature Change Orders Other TCL

For Your: Approval Distribution to Parties [Information] Review and Comment

COPIES	DATE	REV NO.	DESCRIPTION	ACTION CODE
2	06.26.07		TCL	

RECEIVED
JUN 26 2007
LAND DEVELOPMENT SECTION

924.3864

stamp to cert result/pd

w/ following exception

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

June 26, 2007

Tafazzul Hussain, Registered Architect
AFRA Construction & Design
2501 Yale Blvd, Ste.102
Albuquerque, NM 87106

Re: Certification Submittal for Final Building Certificate of Occupancy for
Holiday Inn Express, [F-17 / D090]
5050 Jefferson St. NE
Architect's Stamp Dated 06/22/07

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Dear Mr. Hussain:

The TCL / Letter of Certification submitted on June 26, 2007 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

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

PROJECT TITLE: HOLIDAY INN EXP ZONE MAP/DRG. FILE # F17/D090
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: _____
CITY ADDRESS: 5050 JEFFERSON ST. NE

ENGINEERING FIRM: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

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

ARCHITECT: AFRA CONSTR. & DES. CONTACT: _____
ADDRESS: 2501 YALE SE, STE 102 PHONE: _____
CITY, STATE: ALBUQ, NM 87106 ZIP CODE: _____

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

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

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

CHECK TYPE OF APPROVAL SOUGHT:
_____ SIA/FINANCIAL GUARANTEE RELEASE
_____ PRELIMINARY PLAT APPROVAL
_____ S. DEV. PLAN FOR SUB'D APPROVAL
_____ S. DEV. FOR BLDG. PERMIT APPROVAL
_____ SECTOR PLAN APPROVAL
_____ FINAL PLAT APPROVAL
_____ FOUNDATION PERMIT APPROVAL
_____ BUILDING PERMIT APPROVAL
__X__ 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

RECEIVED
JUN 27 2007

SUBMITTED BY: _____ DATE: 06-27-07

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

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.

2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.

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

Afra Construction & Design

2501 Yale Blvd. SE Suite 102
Albuquerque, NM 87106
505-243-9093
505-243-1561

JUNE 26, 2007

Nilo Salgado-Fernandez PE
Senior Traffic Engineer
Planning Department
600 2nd Street NW
Albuquerque, Nm 87102

Re: Substantial compliance-Final TCL
Holiday Inn Express
5050 Jefferson Street,
Albuquerque, NM 87109

Dear Mr. Salgado-Fernandez,

Afra Construction & Design requests a Final TCL for Holiday Inn Express located at 5050 Jefferson Street, Albuquerque, NM 87109.

Sincerely,

Tafazzul Hussain, AIA
President
Afra Construction & Design
Cell: 505-315-1482

STATE OF NEW MEXICO
TAFAZZUL HUSSAIN
NO. 3071
REGISTERED ARCHITECT
6/27/07

RECEIVED
JUN 27 2007
HYDROLOGY SECTION

Afra Construction & Design

2501 Yale Blvd. SE Suite 102
Albuquerque, NM 87106
505-243-9093
505-243-1561

JUNE 26, 2007

Nilo Salgado-Fernandez PE
Senior Traffic Engineer
Planning Department
600 2nd Street NW
Albuquerque, Nm 87102

Re: Substantial compliance-Final TCL
Holiday Inn Express
5050 Jefferson Street,
Albuquerque, NM 87109

Dear Mr. Salgado-Fernandez,

Afra Construction & Design requests a Final TCL for Holiday Inn Express located at 5050 Jefferson Street, Albuquerque, NM 87109.

Sincerely,

Tafazzul Hussain, AIA
President
Afra Construction & Design
Cell: 505-315-1482

R D
JUN 27 2007
HYDROLOGY SECTION

STATE OF NEW MEXICO
TAFAZZUL HUSSAIN
NO. 3071
REGISTERED ARCHITECT

6/27/07

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

June 25, 2007

Tafazzul Hussain, Registered Architect,
AFRA Construction & Design
2501 Yale Blvd SE, Ste. 102
Albuquerque, NM 87106

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Holiday Inn Express, [F-17 / D090]
5050 Jefferson St. NE
Architect's Stamp Dated 06/22/07

Dear Mr. Hussain:

Based on the information provided on your submittal dated June 22, 2007, the above referenced project is approved for a 90-day Temporary C.O.

A Temporary C.O. has been issued allowing the outstanding Site Plan (need to provide the approved site plan approved on 12/21/04 as part of the Final Certification request) issue to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

The Certification package for Final C.O. must include an ***exact*** copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead-stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3630.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

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

F-17/D090

PROJECT TITLE: HOLIDAY INN EXPRESS ZONE MAP/DRG. FILE #: F-17/D090
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: _____
CITY ADDRESS: 5050 JEFFERSON STREET, ALBQ., NM-87109

ENGINEERING FIRM: LARRY READ & ASSOC CONTACT: LARRY READ
ADDRESS: _____ PHONE: 239-7692
CITY, STATE: _____ ZIP CODE: _____

OWNER: FAIZEL KASSAM CONTACT: FAIZEL KASSAM
ADDRESS: _____ PHONE: 489-4474
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: AFRA CONST. & DESIGN CONTACT: TAFAZZUL H
ADDRESS: _____ PHONE: 315-1482
CITY, STATE: _____ ZIP CODE: _____

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

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

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

CHECK TYPE OF APPROVAL SOUGHT:
_____ SIA/FINANCIAL GUARANTEE RELEASE
_____ PRELIMINARY PLAT APPROVAL
_____ S. DEV. PLAN FOR SUB'D APPROVAL
_____ S. DEV. FOR BLDG. PERMIT APPROVAL
_____ SECTOR PLAN APPROVAL
_____ FINAL PLAT APPROVAL
_____ FOUNDATION PERMIT APPROVAL
_____ BUILDING PERMIT APPROVAL
__X__ 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

RECEIVED
JUN 22 2007
HYDROLOGY SECTION

SUBMITTED BY: Tafazzul Hussain DATE: 6/22/07

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

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.

2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.

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

Afra Construction & Design

2501 Yale Blvd. SE Suite 102
Albuquerque, NM 87106
505-243-9093
505-243-1561

JUNE 22, 2007

Nilo Salgado-Fernandez PE
Senior Traffic Engineer
Planning Department
600 2nd Street NW
Albuquerque, Nm 87102

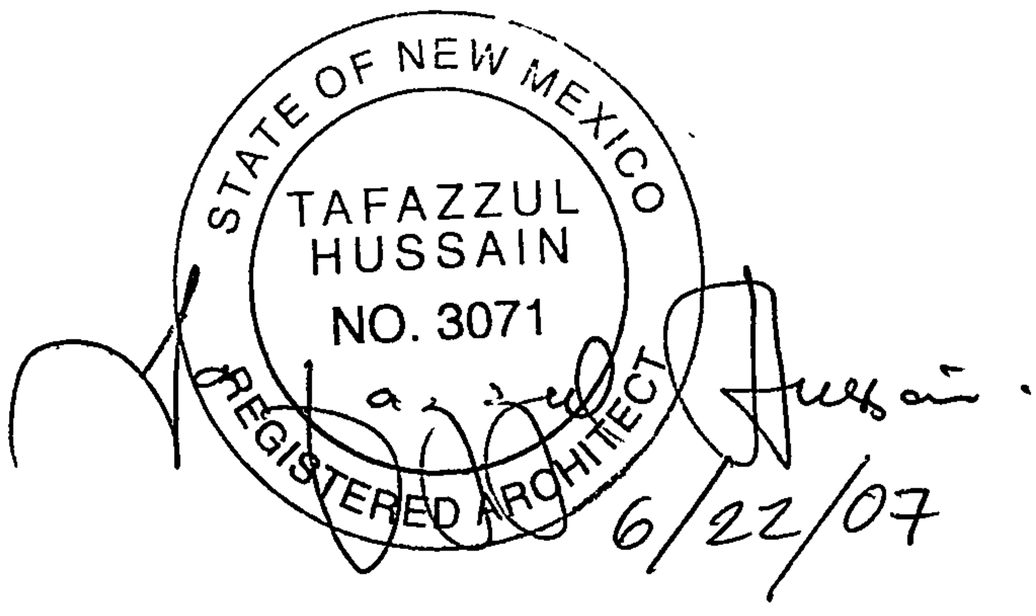
Re: Substantial ~~completion~~ COMPLIANCE-Final TCL
Holiday Inn Express
5050 Jefferson Street,
Albuquerque, NM 87109

Dear Mr. Salgado-Fernandez,

Afra Construction & Design requests a Final TCL for Holiday Inn Express located at 5050 Jefferson Street, Albuquerque, NM 87109.

Sincerely,

Tafazzul Hussain, AIA
President
Afra Construction & Design
Cell: 505-315-1482



Afra Construction & Design

2501 Yale Blvd. SE Suite 102
Albuquerque, NM 87106
505-243-9093
505-243-1561

JUNE 22, 2007

Nilo Salgado-Fernandez PE
Senior Traffic Engineer
Planning Department
600 2nd Street NW
Albuquerque, Nm 87102

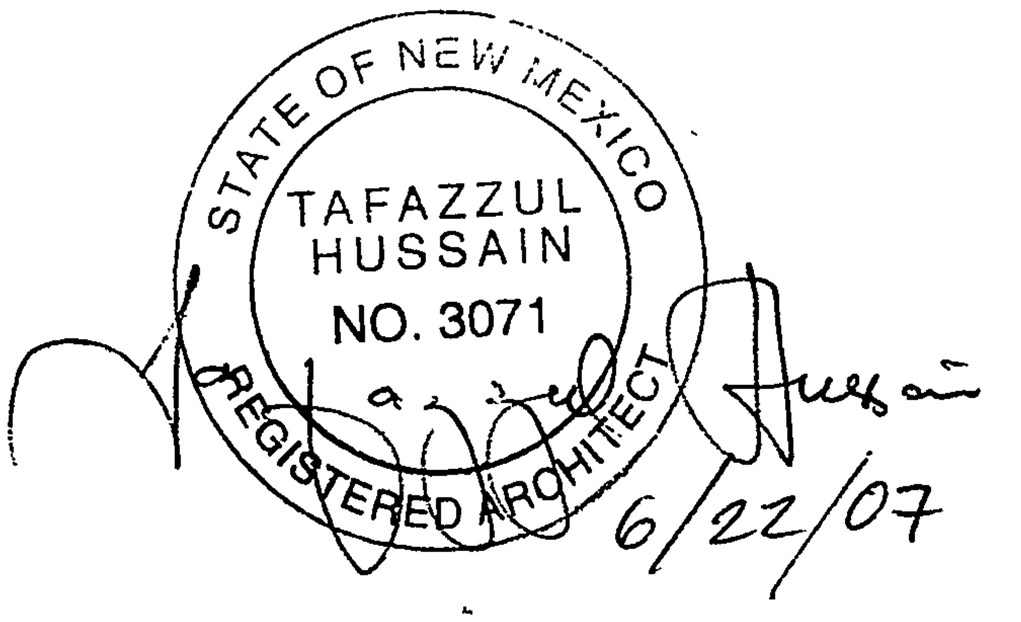
Re: Substantial ~~completion~~ COMPLIANCE-Final TCL
Holiday Inn Express
5050 Jefferson Street,
Albuquerque, NM 87109

Dear Mr. Salgado-Fernandez,

Afra Construction & Design requests a Final TCL for Holiday Inn Express located at 5050 Jefferson Street, Albuquerque, NM 87109.

Sincerely,

Tafazzul Hussain, AIA
President
Afra Construction & Design
Cell: 505-315-1482



CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

January 12, 2006

Tafazzul Hussain, Registered Architect
Afra Construction & Design LLC
2501 Yale Blvd SE, Ste. 102
Albuquerque, NM 87106

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Holiday Inn (I-25@ Jefferson), [F-17 / D90]
4900 Jefferson NE
Architect's Stamp Dated 01/11/06

Dear Mr. Hussain:

Based on the information provided on your submittal dated January 11, 2006, the above referenced project is approved for a 60-day Temporary C.O.

A Temporary C.O. has been issued allowing variance issue to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

The Certification package for Final C.O. must include an ***exact*** copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead-stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3630.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Afra Construction & Design LLC

2501 Yale Blvd. SE Suite 102
Albuquerque, NM 87106
Phone: 505-243-9093
Fax: 505-243-1561

January 11, 2006

Nilo Salgado- Fernandez
Senior Engineer
City of Albuquerque
600 Plaza Del Sol
Albuquerque, NM 87102

Re: Modifications to Traffic Circulation Layout and request for temporary certificate of occupancy.

Dear Mr. Salgado:

Enclosed is a copy of the traffic circulation layout (TCL) which was approved on 12/20/04 with changes clouded in red.
Because of the ponding requirements and the State Highway Department not allowing us to construct the retaining wall in their right of way we ended up losing 6 parking spaces.
We did talk to the zoning department and they have agreed to issue a temporary Certificate of Occupancy provided we apply for a parking variance.
We request you to issue a temporary Certificate of Occupancy for TCL and in the meantime we will apply for a variance.
Thank you for you cooperation.

Sincerely yours,

Tafazzul Hussain,AIA
President
Afra Construction & Design LLC

STATE OF NEW MEXICO
TAFAZZUL HUSSAIN
NO. 3071
REGISTERED ARCHITECT

RECEIVED
JAN 11 2006
HYDROLOGY SECTION

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

PROJECT TITLE: HOLIDAY INN - I25 @ Jefferson ZONE MAP/DRG. FILE #: F-17/D90
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: PARCE-2 LANDS OF B.C. RINGER
CITY ADDRESS: 4900 JEFFERSON NE, 87107

ENGINEERING FIRM: LARRY READ & ASSOC — CONTACT: LARRY READ.
ADDRESS: 2430 MID TOWN PL NE — PHONE: 237-8421
CITY, STATE: ALBQ., NM 87107 — ZIP CODE: 87107.

OWNER: ALEEM KASSAM — CONTACT: ALEEM KASSAM.
ADDRESS: 2501 YALE BLVD. SE, SUITE-102 — PHONE: 321-3704
CITY, STATE: ALBQ., NM-87106 — ZIP CODE: 87106

ARCHITECT: TAFAZZUL HUSSAIN — CONTACT: TAFAZZUL HUSSAIN
ADDRESS: 2501 YALE BLVD. SE, SUITE-102 — PHONE: 315-1482.
CITY, STATE: ALBQ., NM-87106 — ZIP CODE: 87106.

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

CONTRACTOR: ALFA LEGACY — CONTACT: FAIZEL KASSAM
ADDRESS: _____ — PHONE: 489-4474
CITY, STATE: _____ — ZIP CODE: _____

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

Eng./Architect Stamp for Cert ??

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

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

RECEIVED
JAN 11 2006
HYDROLOGY SECTION

SUBMITTED BY: Tafazzul Hussain DATE: 1/11/06

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

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.

2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.

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

CITY OF ALBUQUERQUE

June 19, 2007

Larry D. Read, P.E.
Larry Read & Associates, Inc.
2430 Midtown PL, Suite C
Albuquerque, NM 87107

Re: Holiday Inn-I25 @ Jefferson, 5050 Jefferson St. NE
Approval of Certificate of Occupancy (C.O.)
Engineer's Stamp dated 12/30/04 (F17/D090)
Certification dated 6/10/07

Based upon the information provided in your submittal received 7/18/07, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

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

Sincerely,

Timothy Sims
Plan Checker, Planning Dept.
Development and Building Services

C: CO Clerk-Katrina Sigala
File

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE

June 19, 2007

Larry D. Read, P.E.
Larry Read & Associates, Inc.
2430 Midtown PL, Suite C
Albuquerque, NM 87107

Re: Holiday Inn-I25 @ Jefferson
5050 Jefferson St NE
~~**4900 Jefferson St. NE**~~

Approval of 90 Day Temporary Certificate of Occupancy (C.O.)

Engineer's Stamp dated 12/30/04 (F17/D090)

Certification dated 6/13/07

Based upon the information provided in your submittal received 6/18/07, the above referenced certification is approved for release of 90-day Temporary Certificate of Occupancy by Hydrology.

The pond is currently under construction and there are numerous differences between the site and what is reflected on the certification. Resubmit for Permanent CO when the pond is complete and the debris is removed from the pond. In addition, provide survey data for the bottom of the pond in 3 or 4 locations, as well as for the design grades, and calculations for the pond volume.

Remove the word "Temporary" from "Temporary Drainage Certification", since this certification is for Permanent CO.

Upon final Engineer Certification of project site, please resubmit an updated Certification for Permanent C.O.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, E.I.
Engineering Associate-Hydrology
Development and Building Services

C: CO Clerk
File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: HOLIDAY INN - I25 @ JEFFERSON
DRB #: _____ EPC#: _____

ZONE MAP/DRG. FILE #: F17/D90
WORK ORDER#: _____

LEGAL DESCRIPTION: PARCEL 2, LANDS ON B. C. RINGER
CITY ADDRESS: ~~4900~~ 5050 JEFFERSON NE

ENGINEERING FIRM: LARRY READ & ASSOCIATES, INC
ADDRESS: 2430 MIDTOWN PL. SUITE C
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: LARRY READ
PHONE: 237-8421
ZIP CODE: 87107

OWNER: LEGACY HOSPITALITY, INC
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: FAIZEL KASSAM
PHONE: 243-6000
ZIP CODE: 87106

ARCHITECT: TAFFAZULE HUSSAIN
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: TAFFAZULE HUSSAIN
PHONE: 315-1482
ZIP CODE: 87106

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

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

CHECK TYPE OF APPROVAL SOUGHT:

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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

RECEIVED
JUN 18 2007
HYDROLOGY SECTION

DATE SUBMITTED: June 13, 2007

BY: LARRY D. READ PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature , location and scope 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 (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.

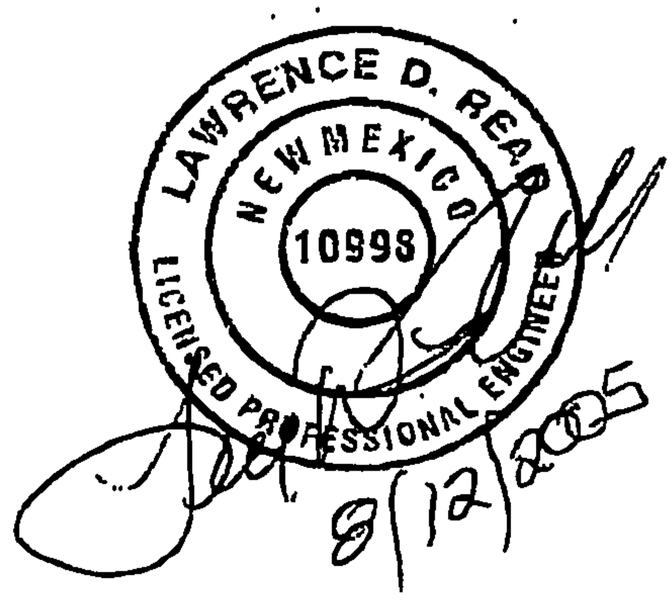
HOLIDAY INN JEFFERSON POND WITH 2:1 SLOPES
08/12/05
POND VOLUME AND OUTLET STRUCTURE CALCULATIONS

ELEV	AREA	INC VOL	TOTAL VOL		H	Q/PIPE	QTOTAL
	(sq. ft.)	(cu. ft.)	(cu. ft.)	(acre-ft.)	(ft.)	(cfs)	(cfs)
52.50	0	0.00	0.00	0.0000	0.00	0.0	0.00
53.00	11,118	2,780	2,780	0.0638	0.50	24.1	24.05
54.00	12,837	11,978	14,757	0.3388	0.00	0.0	0.00
55.00	14,427	13,632	28,389	0.6517	1.00	34.0	34.02
56.00	16,421	15,424	43,813	1.0058	2.00	48.1	48.11
57.00	17,971	17,196	61,009	1.4006	3.00	58.9	58.92
58.00	26,056	22,014	83,023	1.9059	4.00	68.0	68.04
59.00	29,514	27,785	110,808	2.5438	5.00	76.1	76.07

PIPE DIAMETER (") 36
NUMBER OF PIPES 1
C 0.60

$Q = CA(2gH)^{0.5}$

AREA (ft.) 7.07



LARRY READ & ASSOCIATES, Inc.
Civil Engineers
Site • Drainage • Utility • Design

FAX COVER SHEET

DATE: 6/14/2007

TO: CURTIS CHERNE

FAX NUMBER: 924-3864

FROM: LARRY READ

SUBJECT: HOLIDAY INN JEFFERSON

NUMBER OF PAGES: 2 (INCLUDES THIS COVER PAGE)

REMARKS:

Curtis

Attached is the volume calc for the redesigned pond.

Let me know if there is anything else you need.

Thanks
Larry

IF YOU DID NOT RECEIVE ALL PAGES OR
THEY WERE NOT LEGIBLE CALL (505) 237-8421 OR (505) 345-0620

2430 Midtown Place NE , Suite C
Albuquerque, New Mexico 87107

FAX (505) 237-8422

Larry Read, PE (505) 237-8421
Billy McCarty, PE (505) 345-0620

CITY OF ALBUQUERQUE

January 11, 2006

Mr. Larry Read, P.E.
LARRY READ & ASSOCIATES, INC.
4800 Juan Tabo Blvd. NE
Albuquerque, NM 87111

Re: HOLIDAY INN – I25 @ JEFFERSON
4900 Jefferson St. NE
Approval of Temporary Certificate of Occupancy (C.O.)
Engineer's Stamp dated 12/30/2004 (F-17/D90)
Certification dated 01/11/2006

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Dear Larry,

Based upon the information provided in your submittal received 01/11/2006, the above referenced certification is approved for release of 30-day Temporary Certificate of Occupancy by Hydrology.

Upon completion of the deficiencies listed in your correspondence, please resubmit an updated certification.

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

Sincerely,

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

C: CO Clerk
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: HOLIDAY INN - I25 @ JEFFERSON
DRB #: _____ EPC#: _____

ZONE MAP/DRG. FILE #: F17/D90
WORK ORDER#: _____

LEGAL DESCRIPTION: PARCEL 2, LANDS ON B. C. RINGER
CITY ADDRESS: 4900 JEFFERSON NE

ENGINEERING FIRM: LARRY READ & ASSOCIATES, INC
ADDRESS: 4800 JUAN TABL BLVD. NE SUITE C
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: LARRY READ
PHONE: 237-8421
ZIP CODE: 87111

OWNER: LEGACY HOSPITALITY, INC
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: FAIZEL KASSAM
PHONE: 243-6000
ZIP CODE: 87106

ARCHITECT: TAFFAZULE HUSSAIN
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: TAFFAZULE HUSSAIN
PHONE: 315-1482
ZIP CODE: 87106

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

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

CHECK TYPE OF APPROVAL SOUGHT:

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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

RECEIVED
JAN 11 2006
HYDROLOGY SECTION

DATE SUBMITTED: January 11, 2006

BY: LARRY D. READ PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature , location and scope 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 (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.

LARRY READ & ASSOCIATES, Inc.

Civil Engineers
Site ● Drainage ● Utility Design

January 11, 2006

Mr. Brad Bingham, P.E.
PWD - Hydrology
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

RE: Holiday Inn - Jefferson
Jefferson and I-25

Dear Mr. Bingham:

As you know, Mr. Tony Abbo, New Mexico Department of Transportation, withdrew our approval of the grading plan after construction began. As a result, the grading plan underwent numerous revisions to address Mr. Abbo's objections to having a retaining wall in the NMDOT right-of-way. The result was the slope in the NMDOT right-of-way was regraded to 2:1 with a stabilization fabric added and the retaining wall on the site side was pulled in closer to the main drive to provide ponding equivalent to the City approved grading plan. Moving the site side retaining wall eliminated all proposed parking along the west side of the site. A few of the parking spaces were relocated east of the buiding causing grading modifications on that end of the building.

Attached is a copy of the conditional letter of approval of the construction on the NMDOT right-of-way. We hope to have the final slope stabilization in and concrete rundowns finished later this week.

We are requesting a Temporary Certificate of Occupancy for a period of 30-days to allow the facility to begin operation while the final portions of site construction are completed.

If you have any questions or comments, please call me at 237-8421.

Sincerely,
LARRY READ & ASSOCIATES, Inc.

Larry D. Read, P.E.

2430 Midtown Place, N.E. Suite C, Albuquerque, New Mexico 87107 (505) 237-8421 FAX (505) 237-8422

New Mexico DEPARTMENT OF
TRANSPORTATION
MOBILITY FOR EVERYONE

District Three Office - Albuquerque

January 6, 2006

Mr. Faizal Kassam
LHI
2501 Yale Boulevard SE
Suite 102
Albuquerque, NM 87106

Post-it® Fax Note 7671	Date	# of pages ▶
To Larry	From Faizal	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 237-9422	Fax #	

Subject: Holiday Inn
I-25 and Jefferson
Albuquerque, Bernalillo County, District Three

Dear Mr. Kassam:

I have reviewed the site improvements that were placed within the NMDOT R/W in conjunction with the construction of the Holiday Inn property at the NE corner of I-25 and Jefferson and have the following comments:

1. The sidewalk was found to be in good condition and thus the work is accepted.
2. The ADA curb ramps were found to be in good condition and thus the work is accepted
3. The work on the slopes was not completed at the time of the inspection. Grading will need to be completed and the slopes will need to be seeded. You will be required to provide the NMDOT with a written guarantee that if the seeds do not germinate, that you will go back in the late spring/early summer and re-seed the slopes.

If you have any questions, please feel free to give me a call at 841-2761.

Sincerely,

Tony Abbo, P.E., P.T.O.E.
District Three Traffic Engineer

cc: Terry Doyle
File

Bill Richardson
Governor

Rhonda G. Faught P.E.
Cabinet Secretary

Commission

Johnny Cope
Chairman
District 2

David Schutz
Vice Chairman
District 5

Gregory T. Ortiz
Secretary
District 6

Norman Assed
Commissioner
District 3

Jim Franken
Commissioner
District 4

John L. Hummer
Commissioner
District 1

CITY OF ALBUQUERQUE

December 21, 2004

Tafazzul Hussain, R.A.
2501 Yale Blvd SE
Albuquerque, NM 87112

Re: Holiday Inn, 5050 Jefferson St NE, Traffic Circulation Layout
Architect's Stamp dated 12-20-04 (F17-D90)

Dear Mr. Hussain,

The TCL submittal received 12-20-04 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation.

If a temporary CO is needed, a copy of the original TCL that was stamped as approved by the City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

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

cc: file

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

Final 10/3/03

ACCESS EASEMENT AND SIGN EASEMENT AGREEMENT

This Access Easement and Sign Easement Agreement is made and entered into effective the _____ day of January, 2004, by and between TKW Properties, LLC, an Arizona Limited Liability Company, whose address is 6012 N. Central Ave., Phoenix, Arizona 85012, of the first part, hereinafter referred to as TKW Properties, and Regal Investments, Inc., a New Mexico corporation, whose address is 13215 Velma Ct. NE, Albuquerque, New Mexico 87112, of the second part, hereinafter referred to as Regal Investments.

WHEREAS, Regal Investments has purchased from TKW Properties and is now the owner of that certain tract of realty situate in Bernalillo County, New Mexico, as more particularly described in Exhibit A attached hereto, hereinafter referred to as the Dominant Property; and

WHEREAS, TKW Properties is the owner of that certain contiguous realty situate in Bernalillo County, New Mexico, described in Exhibit B attached hereto, hereinafter referred to as the Servient Property; and

WHEREAS, the Servient Property includes realty described as "Easement 1", in Exhibit C attached hereto, and realty described as "Easement 2", in Exhibit D attached hereto;

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, it is agreed by and between the parties as follows:

1. Grant of Easement: TKW Properties does hereby grant to Regal Investments, its successors and assigns, with warranty covenants,

easements on, over and through the realty described in Exhibit C, which easement is hereinafter referred to as Easement 1, and the realty described in Exhibit D, which easement is hereinafter referred to as Easement 2, for the uses and purposes and with the rights and obligations herein provided.

Easement 1 and Easement 2 shall both exist in perpetuity and shall run with and encumber the title to the Servient Property.

Easement 1 and Easement 2 shall benefit and be appurtenant to and run with the title to the Dominant Property and each and every portion thereof.

2. Easement 1: A purpose of Easement 1 is to provide free, complete, and unobstructed access to and from the Dominant Property and the public rights of way of the City of Albuquerque, New Mexico, specifically including Jefferson Blvd. NE, and include the right to install and maintain utilities therein, to pave and stripe and to maintain paving and striping, and to install and maintain curbs, gutters, walkways, the retaining wall hereinafter described, and other similar improvements on Easement 1 to such standards as may be determined by the owner of the Dominant Property, the installation of which will be all at the initial expense of the owner of the Dominant Property, except as provided hereinafter. The basic design of the improvements intended for Easement 1 includes paving (with the pavement being sufficient to hold a 16,000 lb. truck on all of Easement 2, and on that part of Easement 1 running north to the driveway to access the remainder of the Servient Property), curb, gutters, walkways, landscaping, and grading to curb elevations, curb cuts for drainage and related engineering costs which are all to be the expense of the owner of the

Dominant Property. One half of the cost of the improvements within Easement 2 over and above the basic design that are attributable to the construction of a retaining wall in lieu of curbing and in lieu of landscaping on the east side of the easement (including but not limited to, engineering costs, grading and drainage facility construction) will be reimbursed by the owner of the Servient Property to the owner of the Dominant Property.

At such time as the owner of the Dominant Property installs paving on Easement 1, that owner shall also install a retaining wall within Easement 1 sufficient in height to maintain in place from point to point the existing grade of the abutting Servient Property. This retaining wall will run southerly along the entire easterly boundary of Easement 1 to a point west of the southwest corner of the existing commercial building located on the Servient Property.

The retaining wall and the curbing will be left open to provide an driveway twenty (20) feet wide to access to the remainder of the Servient Property.

The design of the retaining wall will be proposed by the owner of the Dominant Property and approved by the owner of the Servient Property; such approval will not be unreasonably withheld and any objections to such design must be made in a timely manner so as to not delay the installation of the paving and other improvements or the construction of improvements on the Dominant Property.

All improvements made by the owner of the Dominant Property on

Easement 1 will be made in such a manner as to allow the continuance of the existing drainage of waters from the Servient Property through Easement 1 and flowing to the west by the installation of curb cuts, breaks in the retaining wall or culverts or other facilities chosen by the owner of the Dominant Property.

The owner of the Servient Property will allow access over the Servient Property to the owner of the Dominant Property for the purpose of installing and maintaining the retaining wall and any drainage facilities placed on the Servient Property pursuant to this Agreement.

A purpose of Easement 1 is to allow the owner of the Dominant Property to construct and maintain a pylon sign and two directional signs within Easement 1 allowing the advertisement of, and directing traffic to, such business or businesses as may be located or operated upon the Dominant Property. The pylon sign will be located within the Southerlymost ten (10) feet of Easement 2, the exact location, size and design of these signs will otherwise be within the discretion of the owner of the Dominant Property, subject to regulation by the City of Albuquerque.

The maintenance of the signs and any other improvements placed upon Easement 1 by the owner of the Dominant Property will be the responsibility of and at the expense of the owner of the Dominant Property.

Easement 1 is non exclusive and will also be available to provide free, complete and unobstructed access over Easement 1 to and from the remainder of the Servient Property and the public rights of way of the City of Albuquerque, New Mexico, specifically including Jefferson Blvd. NE.

The cost of the maintenance of all improvements and any repaving in Easement 1 will be the responsibility of the owner of the Dominant Property provided, however, if the owner of the Servient Property, or its invitees, damage the pavement or other improvements, the cost of repairing such damage will be the full responsibility of the owner of the Servient Property.

3. Easement 2: The purpose of Easement 2 will be to provide free, complete and unobstructed access to and from the Dominant Property and Easement 1, and the public rights of way of the City of Albuquerque, New Mexico, including Jefferson Blvd. NE, and include the right to install utilities therein, and include the right to install and maintain paving thereon.

Easement 2 is non exclusive and will also be available to provide free, complete and unobstructed access to and from the remainder of the Servient Property to the public rights of way of the City of Albuquerque, New Mexico, including Jefferson Blvd. NE. Striping of the pavement on Easement 2 will be as regulated by the City of Albuquerque.

4. Maintenance: Both the owner of the Dominant Property and the owner of the Servient Property have the right to maintain the pavement and other improvements on Easement 2 in excellent condition and the parties agree that repaving or other maintenance of such pavement and other improvements to a high standard is important to the businesses operated on either the Dominant Property or the Servient Property.

The cost of such maintenance or repaving in Easement 2 shall be at the

initial expense of the owner ordering the work to be done. In the event the owner of either the Dominant Property or the Servient Property, or their invitees, damage the pavement or other improvements, the cost of the repairing of such damage will be the full responsibility of the owner causing the damages. In all other instances, the other owner shall reimburse the owner ordering the work to be done for one half of the cost of such work.

5. Arbitration: The parties agree to submit any controversy arising between the parties to arbitration in accordance with the Uniform Arbitration Act of the State of New Mexico. The arbitrator shall have the authority to award to the prevailing party reasonable attorney's fees incurred in connection with such arbitration.

IN WITNESS WHEREOF the parties hereto set their hands and seals effective the year and date above first written.

TKW Properties, LLC

By: _____
William F. Riley III
Member

Regal Investments, Inc.

By: _____
Faizal Kassam
Secretary-Treasurer

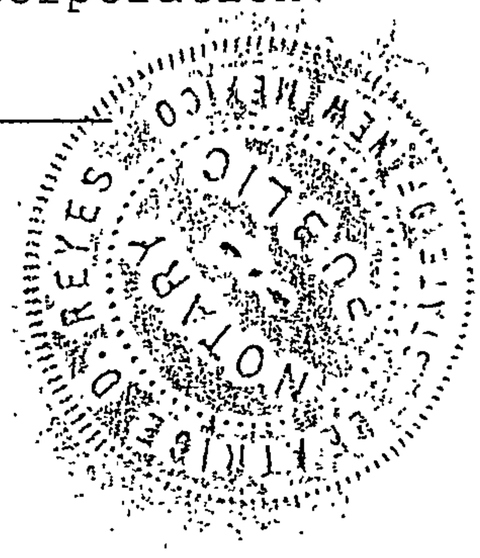
my\docs\kassam-FAIZ-4th access agr

ACKNOWLEDGMENTS

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

The above instrument was executed before me this 24th day of September, 2003, by Faizel Kassam, Secretary-Treasurer of Regal Investments, Inc., a New Mexico corporation, on behalf of said corporation.

Beatrice D. Reyes
Notary Public



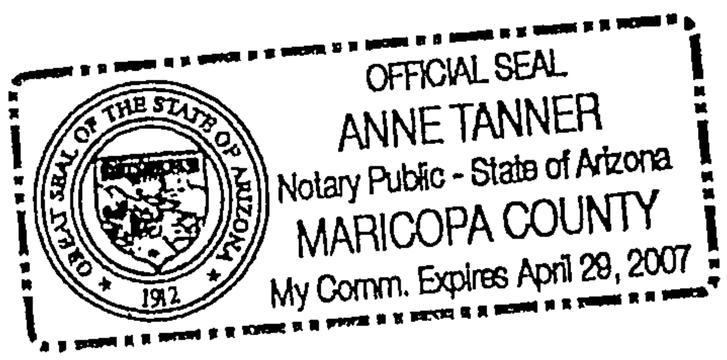
My commission expires:
3-18-06

STATE OF Arizona)
) ss
COUNTY OF Maricopa)

The above instrument was executed before me this 19 day of Sept, 2003, by William F. Riley III, Member of TKW Properties, LLC, an Arizona limited liability company, on behalf of said limited liability company.

Notary Public

My commission expires:



my\docs\kassam-FAIZ-4th access agr

A tract of land situate in PORTION OF THE LANDS OF B.C. RINGER, within the Elena Gallegos Grant, in the City of Albuquerque, [illegible] Mexico, as said portion is shown and described on the Plat filed in the Office of the county Clerk of Bernalillo County, New Mexico, on July 6, 1971, in Map Book A3, Folio 90, said tract of land being more particularly described as follows:

BEGINNING at the Southwest corner of the tract herein described, being the Southwest corner of Portion of the Lands of B.C. Ringer, and being 115.61 feet to the right of and opposite Survey Centerline Station 46 + 29.05 of Jefferson Street at Jefferson Interchange of NMP UI-025-4 (52) 228, County of Bernalillo, State of New Mexico;

Thence, from said point of beginning N. 36 deg. 23' 26" W., a distance of 14.46 feet along the Westerly boundary of Portion of the Lands of B.C. Ringer to the Northwest corner of the tract herein described and a point on the Easterly right-of-way and access control line of NMP UI-025-4 (52) 228;

Thence, N. 32 deg. 49' 34" E., a distance of 368.59 feet along said Easterly right-of-way and access control line to the Northeast corner of the tract herein described and a point on the Northeasterly boundary of Portion of the Lands of B.C. Ringer;

Thence, S. 44 deg. 29' 32" E., a distance of 377.89 feet along said Northeasterly boundary to a point on the Southeasterly boundary of Portion of the Lands of B.C. Ringer;

Thence S. 22 deg. 03' 34" W., a distance of 57.79 feet along said Southerly boundary to the Southeast corner of the tract herein described, being a point on the Southwesterly boundary of Portion of the Lands of B.C. Ringer;

Thence N. 89 deg. 46' 06" W., a distance of 434.36 feet along said Southwesterly boundary to the point and place of beginning.

Exhibit A
Dominant Property

A TRACT OF LAND WITHIN THE ELENA GALLEGOS GRANT IN THE CITY OF ALBUQUERQUE, NEW MEXICO, AND BEING THE SAME IS SHOWN AND DESIGNATED ON THE ALTA SURVEY BY WAYJOHI SURVEYING AND DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A POINT ON EAST RIGHT OF WAY OF JEFFERSON STREET, NE, AND BEING THE SOUTHWEST CORNER OF THE HEREIN DESCRIBED TRACT, WHENCE THE ACS MONUMENT "I-25-18" BEARS S 65°40'24" W, A DISTANCE OF 2261.42 FEET;

THENCE, COINCIDING WITH SAID EAST RIGHT OF WAY THE FOLLOWING TWO COURSES, 233.68 FEET ALONG AN ARC TO THE LEFT, TO A POINT OF TANGENCY, HAVING A RADIUS OF 743.00 FEET AND DELTA OF 18°01'13" AND A CHORD OF N 27°20'29" W, A DISTANCE OF 232.72 FEET;

THENCE, N 36°21'05" W, A DISTANCE OF 45.79 FEET, TO THE NORTHWEST CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, LEAVING SAID RIGHT OF WAY, S 89°43'45" E, A DISTANCE OF 844.00 FEET TO THE NORTHEAST CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, S 00°19'16" W, A DISTANCE OF 242.96 FEET TO THE SOUTHEAST CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, N 89°43'45" W, A DISTANCE OF 708.61 FEET TO THE POINT OF BEGINNING,

Exhibit B
Servient Property

EASEMENT 1

BEGINNING AS AN EASEMENT (EASEMENT 1), AT THE NORTHWEST CORNER OF THE ABOVE DESCRIBED PARCEL 1 AND THE NORTHWEST CORNER OF THE HEREIN DESCRIBED TRACT, BEING A POINT ON THE EAST RIGHT OF WAY OF JEFFERSON BOULVEARD, MARKED BY A REBAR WITH CAP "LS 14269";

THENCE, LEAVING SAID JEFFERSON RIGHT OF WAY, S 89°43'45" E, A DISTANCE OF 36.76 FEET TO THE NORTHEAST CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, S 36°21'05" E, A DISTANCE OF 23.86 FEET TO A POINT OF CURVATURE;

THENCE, 168.81 FEET ALONG AN ARC TO THE RIGHT, HAVING A RADIUS OF 772.50 FEET, A DELTA OF 12°31'15" AND A CHORD OF S 30°05'27" E, A DISTANCE OF 168.48 FEET TO THE SOUTHEAST CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, S 66°10'10" W, A DISTANCE OF 29.50 FEET TO A POINT ON THE EAST RIGHT OF WAY OF JEFFERSON STREET, BEING THE SOUTHWEST CORNER OF THE HEREIN DESCRIBED TRACT;

THENCE, COINCIDING WITH SAID EAST RIGHT OF WAY FOR THE FOLLOWING TWO COURSES, 162.37 FEET ALONG THE ARC OF A CURVE TO THE LEFT, (NON-TANGENT TO THE PREVIOUS CALL) HAVING A RADIUS OF 743.00 FEET, A DELTA OF 12°31'15" , AND A CHORD OF N 30°05'27" W, 162.05 FEET TO A POINT OF TANGENCY;

THENCE, N 36°21'05" W, A DISTANCE OF 45.79 FEET TO THE POINT OF BEGINNING, CONTAINING 0.1357 ACRES (5,912 SQ. FT.) MORE OR LESS.

Exhibit C
Easement 1

EASEMENT 2

BEGINNING AS AN EASEMENT (EASEMENT 2) AT THE SOUTHWEST CORNER OF EASEMENT 1, BEING A POINT ON THE EAST RIGHT OF WAY OF JEFFERSON STREET, N.E.;

THENCE, LEAVING SAID RIGHT OF WAY AND RUNNING COINCIDENTALLY WITH THE SOUTH EASEMENT LINE OF EASEMENT 1, N 66°10'10" E, A DISTANCE OF 29.50 FEET TO THE NORTHEAST CORNER OF THE HEREIN DESCRIBED EASEMENT 2, BEING ONE IN THE SAME AS THE SOUTHEAST CORNER OF EASEMENT 1;

THENCE, 84.05 FEET ALONG AN ARC TO THE RIGHT, (NON-TANGENT TO THE PREVIOUS CALL) HAVING A RADIUS OF 772.50 FEET, A DELTA OF 6°14'03" AND A CHORD OF S 20°42'48" E, 84.01 FEET TO THE SOUTH PROPERTY LINE OF THE ABOVE REFERENCED PARCEL 1;

THENCE, COINCIDING WITH THE SOUTH PROPERTY OF PARCEL 1, N 89°43'45" W, A DISTANCE OF 31.06 FEET TO THE SOUTHWEST CORNER OF BOTH PARCEL 1 AND EASEMENT 2, AND A POINT ON THE EAST RIGHT OF WAY OF JEFFERSON STREET;

THENCE, COINCIDING WITH THE EAST RIGHT OF WAY, 71.31 FEET ALONG AN ARC TO THE LEFT, HAVING A RADIUS OF 743.00 FEET, A DELTA OF 5°29'57" AND A CHORD OF N 21°04'51" W, 71.31 FEET TO THE POINT OF BEGINNING, CONTAINING 0.0526 ACRES (2,292 SQ. FT.) MORE OR LESS.

Exhibit D
Easement 2

F-17/D90

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: HOLIDAY INN ZONE MAP/DRG. FILE #: F 17 - D90
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: _____
CITY ADDRESS: _____

ENGINEERING FIRM: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

OWNER: ALFA LEGACY CONTACT: FAIZEL
ADDRESS: _____ PHONE: 409-9474
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: AFRA CONSTRUCTION & DESIGN CONTACT: TAFAZZUL HUSSAIN
ADDRESS: 2601 YALE BLVD SUITE 162 PHONE: 315-1982
CITY, STATE: ALBUQUERQUE NM ZIP CODE: 87109

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***
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERTIFICATION (HYDROLOGY)
____ CLOMR/LOMR
✓ TRAFFIC CIRCULATION LAYOUT (TCL) RESUBMITTAL
____ ENGINEERS CERTIFICATION (TCL)
____ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

____ SIA / FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D. APPROVAL
____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
✓ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY (PERM.)
____ CERTIFICATE OF OCCUPANCY (TEMP.)
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

____ YES
____ (NO)
____ COPY PROVIDED

DATE SUBMITTED: 12/20/04 BY: _____

HYDROLOGY SECTION
DEC 20 2004
CITY OF ALBUQUERQUE

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 (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.

Approve

F-17/D90

New Mexico DEPARTMENT OF
TRANSPORTATION
MOBILITY FOR EVERYONE

INTRA-DEPARTMENTAL CORRESPONDENCE

January 4, 2005

TO: Tony Abbo
District Three Traffic Engineer

FROM: Raymunda A. Van Hoven
Drainage Engineer

SUBJECT: Review of the Drainage Drainage Plan for the Holiday Inn Development at Jefferson and I-25, Albuquerque, New Mexico

FILE

I have made a cursory review and have discussed with Faizel Kassam of Larry Read & Associates the drainage plan for the Holiday Inn Development at Jefferson and I-25 in Albuquerque. In general, the recommendations and the drainage plan seem reasonable, and hydraulically, I do not foresee an adverse impact to the State highways.

The drainage plan includes improvement of the existing pond along the interstate and will reduce the discharge that outfall into the existing 36" culvert crossing the highway. The Drainage Section grants approval of the drainage plan.

If I can be of any further assistance, please call me at 827-5331.

xc: Max Valerio
Mir Amiri, DO3
Larry Read, Larry Read & Associates
Daily File

RECEIVED
JAN 04 2005
HYDROLOGY SECTION

CITY OF ALBUQUERQUE

January 7, 2005

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

Re: Holiday Inn – I25 @ Jefferson Drainage Report
Engineer's Stamp dated 12-30-04, (F17/D90)

Dear Mr. Read,

Based upon the information provided in your submittal dated 10-12-04 01-03-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Municipal Development Department, Hydrology section at 768-3654 (Charles Caruso).

Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

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

Sincerely,

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

C: Chuck Caruso, DMD
file

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: HOLIDAY INN - I25 @ JEFFERSON
DRB #: _____ EPC#: _____

ZONE MAP/DRG. FILE #: F17/D90
WORK ORDER#:

LEGAL DESCRIPTION: PARCEL 2, LANDS ON B. C. RINGER
CITY ADDRESS: 4900 JEFFERSON NE

ENGINEERING FIRM: LARRY READ & ASSOCIATES, INC
ADDRESS: 4800 JUAN TABL BLVD. NE SUITE C
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: LARRY READ
PHONE: 237-8421
ZIP CODE: 87111

OWNER: LEGACY HOSPITALITY, INC
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: FAIZEL KASSAM
PHONE: 243-6000
ZIP CODE: 87106

ARCHITECT: TAFFAZULE HUSSAIN
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: TAFFAZULE HUSSAIN
PHONE: 315-1482
ZIP CODE: 87106

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT:
PHONE:
ZIP CODE:

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT:
PHONE:
ZIP CODE:

CHECK TYPE OF SUBMITTAL:

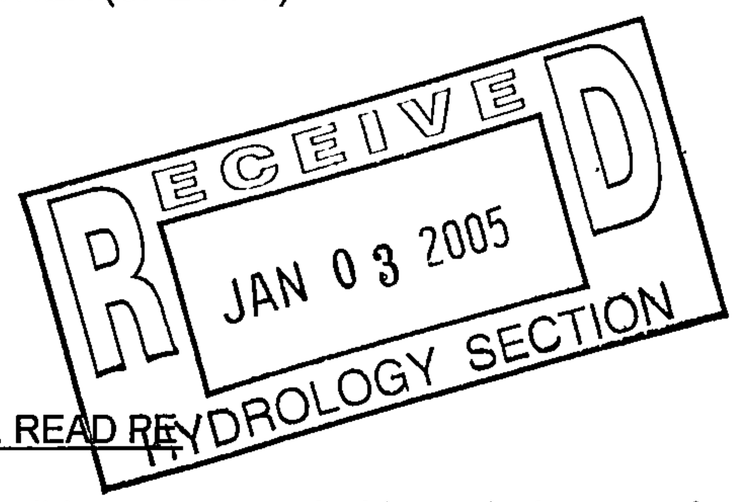
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
- ☒ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION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

CHECK TYPE OF APPROVAL SOUGHT:

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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: December 30, 2004

BY: LARRY D. READ RE

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:

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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.

DRAINAGE REPORT

for

HOLIDAY INN - JEFFERSON

ALBUQUERQUE, NEW MEXICO

December 31, 2004

Prepared by
Larry D. Read, P.E.
4800-C Juan Tabo Blvd., N.E.
Albuquerque, New Mexico 87113
(505) 237-8421

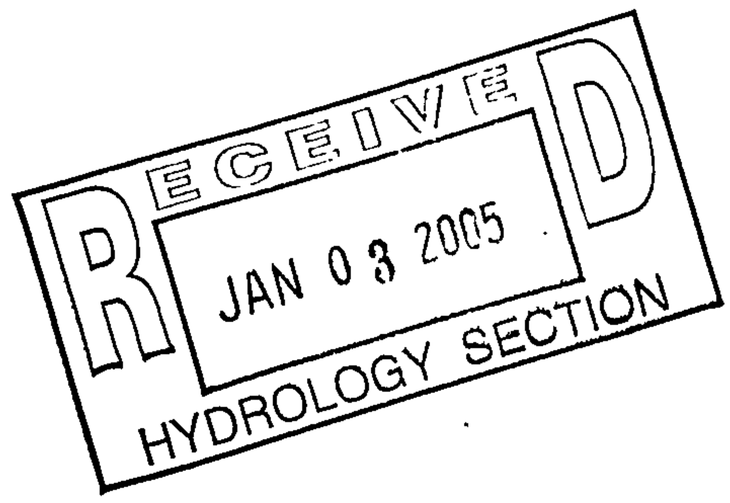


TABLE OF CONTENTS

Item	Description	Page Number
•	Location and Description	1
•	Floodplain Status	1
•	Methodology	1
•	Precipitation	1
•	Existing Drainage Conditions	3
•	Developed Drainage Conditions	3

EXHIBITS

1	Vicinity Map	2
2	Grading and Drainage Plan	Pocket
3	FIRM Map Panels 138E and 139E	4 & 5
4	Offsite Drainage Basin Map	6
5	ABF Trucking Existing Drainage Plan	Pocket

APPENDICES

•	AHYMO Analyses	A

DRAINAGE REPORT

for

HOLIDAY INN - JEFFERSON
ALBUQUERQUE, NEW MEXICO

December 31, 2004

LOCATION & DESCRIPTION

The proposed site is located in the northeast quadrant of Jefferson and the I-25 access road north of the Trucks West site as shown on **Exhibit 1**. The site is currently undeveloped but has been used as a truck parking lot by Truck West for many years so the site is void of any vegetation.

The proposed development is a 6-story hotel with associated paved parking, sidewalks, landscaping and all that stuff that is needed to support the hotel.

FLOODPLAIN STATUS

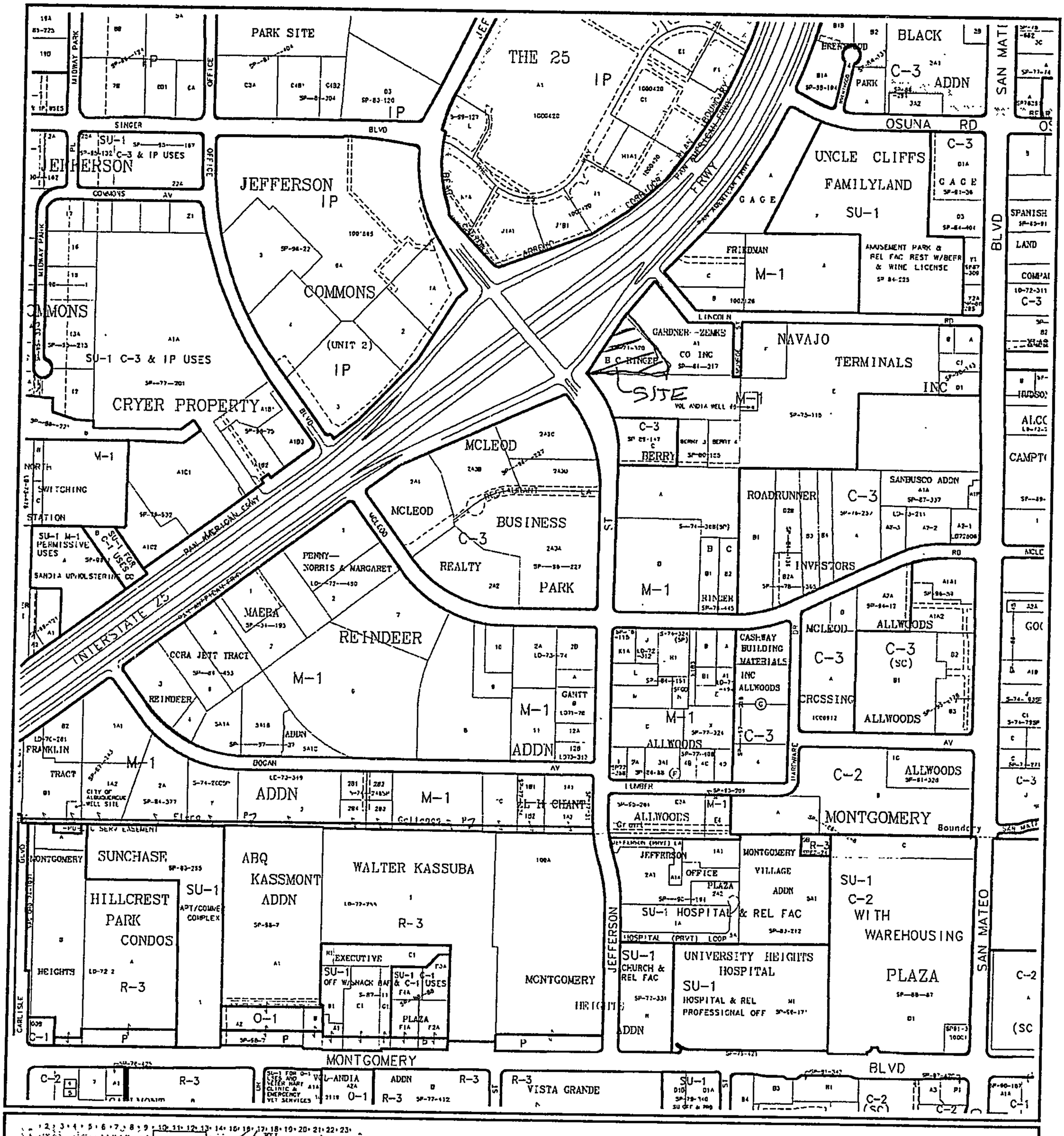
This property, as shown on FIRM Map Panel 35001C0138E and 35001C0138E, effective November 19, 2003, is not within any designated flood zones. There is a 100-year floodplain, designation Zone AO (depth 1') on the opposite side of the I-25 Frontage Road from this site. Portions of these panels with the area designated on it is included as Exhibit 3 in this report.

METHODOLOGY

The hydrology for this project was analyzed using the 1997 release of the AHYMO computer modeling program as developed by AMAFCA. All procedures are in accordance with those shown in the June 1997 release of the City of Albuquerque Development Process Manual, Section 22.2.

PRECIPITATION

The 100-yr, 6-hour duration storm was used as the design storm for this analysis. This site is within Zone 2 as identified in the City of Albuquerque Development Process Manual, Section 22.2. Tables within this section were used to establish the 1-hour, 6-hour precipitation, and 24-hour precipitation.


PARK SITE
THE 25
IP
JEFFERSON
IP
COMMONS
(UNIT 2)
IP
CRYER PROPERTY
SU-1 C-3 & IP USES
SU-1
C-3 & IP USES
JEFFERSON
COMMONS
SINGER
BLVD
OFFICE
MIDWAY PARK
BLACK
C-3
ADDN
PARK
OSUNA
RD
SAN MATI
UNCLE CLIFFS
FAMILYLAND
SU-1
GAGE
C-3
SPANISH
LAND
BLVD
FRIEDMAN
M-1
AMUSEMENT PARK & REL FAC REST W/BEER & WINE LICENSE
LINCOLN
GARDNER-ZEMKE
CO INC
B C RINGER
SITE
NAVAJO
TERMINALS
INC
M-1
C-3
BERRY
ROADRUNNER
C-3
SANBUSCO ADDN
INVESTORS
MCLEOD
BUSINESS
C-3
REALTY
PARK
MCLEOD
PENNY—
NORRIS & MARGARET
MAEBA
REINDEER
M-1
NORTH
SWITCHING
STATION
SU-1 M-1
PERMISSIVE
USES
SU-1 C-1 USES FOR
INTERSTATE 25
PAN AMERICAN FRWY
ACCRA JETT TRACT
REINDEER
M-1
GANTT
ADDN
MCLEOD
C-3
(SC)
ALLWOODS
CASHWAY
BUILDING
MATERIALS
INC
ALLWOODS
C-3
CROSSING
ALLWOODS
FRANKLIN
TRACT
M-1
CITY OF
ALBUQUERQUE
WELL SITE
ADDN
M-1
L H CHANT
BOGAN
AV
C-2
ALLWOODS
HARDWARE
LUMBER
ALLWOODS
M-1
MONTGOMERY
Boundary
SUNCHASE
SU-1
APT/COMM
COMPLEX
HILLCREST
PARK
CONDOS
R-3
ABQ
KASSMONT
ADDN
WALTER KASSUBA
R-3
EXECUTIVE
SU-1
OFF W/SNACK BAR
SU-1 C-1
& C-1 USES
PLAZA
MONTGOMERY
HEIGHTS
JEFFERSON
OFFICE
PLAZA
ADDN
MONTGOMERY
VILLAGE
ADDN
SU-1 HOSPITAL & REL FAC
SU-1
C-2
WITH
WAREHOUSING
PLAZA
SAN MATEO
SU-1
CHURCH &
REL FAC
UNIVERSITY HEIGHTS
HOSPITAL
SU-1
HOSPITAL & REL
PROFESSIONAL OFF
MONTGOMERY
C-2
R-3
O-1
R-3
VISTA GRANDE
SU-1
BLVD
C-2
C-1
CARLISLE
MONTGOMERY
HEIGHTS
R-3
C-1
P
O-1
P
P
C-2
R-3
ADDN
R-3
R-3
SU-1 FOR O-1
USES AND
VETER HARY
CLINIC &
EMERGENCY
VET SERVICES
VOL-ANDIA
0-1
ADDN
R-3
ST
ST
DR
Interstate 25
Interstate 40
River
NOTE: GREY SHADING
REPRESENTS AREA OUTSIDE
OF THE CITY LIMITS
ALBUQUERQUE
NEW MEXICO
CITY OF
Albuquerque
Albuquerque Geographic Information System
PLANNING DEPARTMENT
© Copyright 2003
GRAPHIC SCALE IN FEET
250 0 750 1000
Zone Atlas Page
F-17-Z
Map Amended through July 31, 2003

EXISTING DRAINAGE CONDITIONS

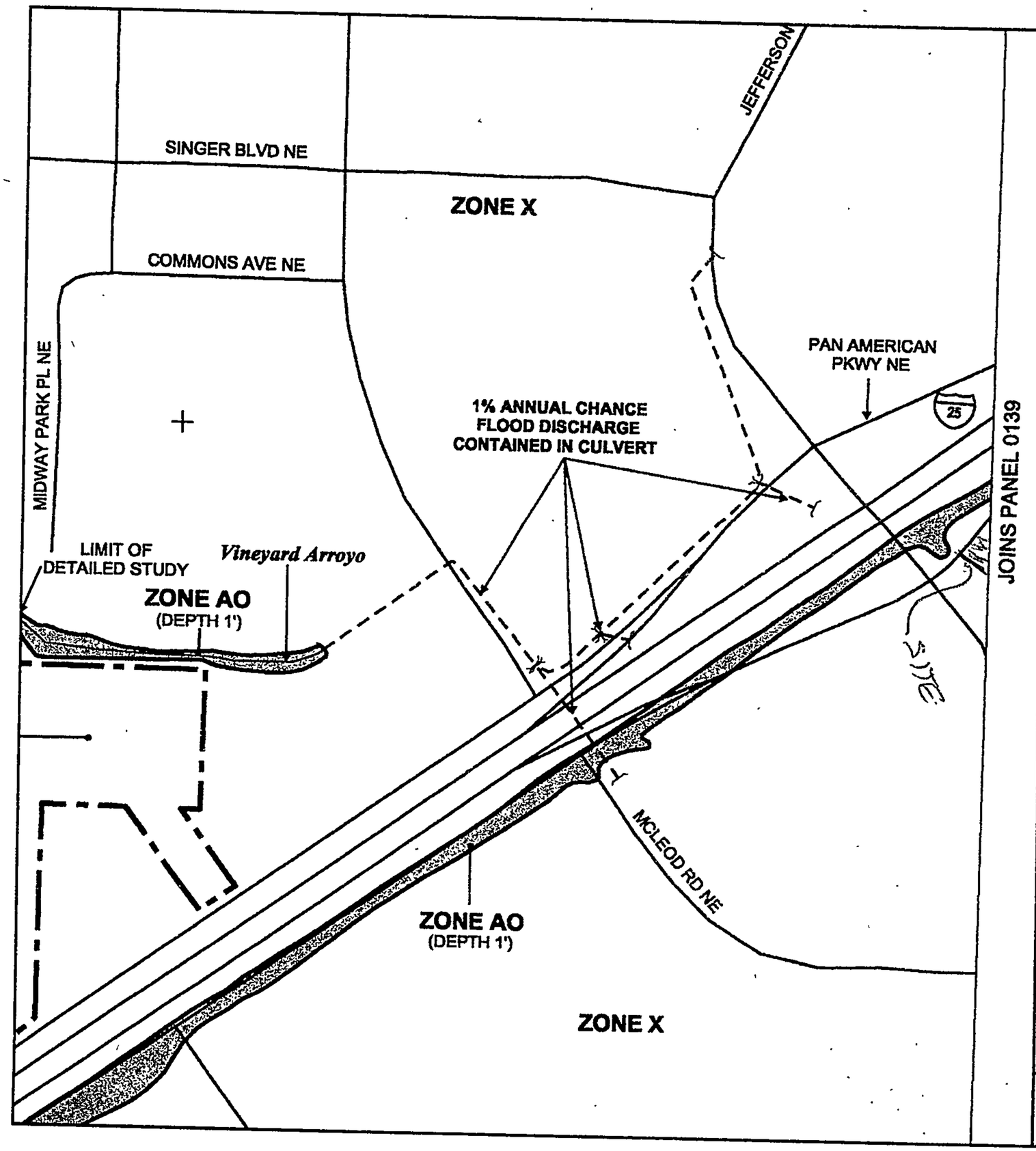
The existing site is undeveloped. There are several offsite drainage basins that contribute runoff to this site as shown on the Offsite Drainage Basin Map (Exhibit 4). All runoff from the offsite basins except Basin 2 flow either along Lincoln Road to the north or Jefferson Road to the south instead of directly to this site. Basin 2 drains through a rectangular concrete channel the parallels the north property line of this project on the parcel to the north. Basin 1, this site drains directly to the pond along I-25. Once the runoff from both on-site and off-site reaches the I-25 frontage road, it collects in a low area (existing pond) at the west side of this site where it meets the berm for the frontage road. Runoff is then discharged, via an existing 36" CMP culvert to the existing collection system between the frontage road and main lanes on I-25 where an existing storm drain conveys it the west side of I-25.

This property slopes west toward the frontage road at a slope of about 1.5%. As discussed above, the site has been used as a parking lot for many years and is void of any vegetation. Since it is very low, the runoff that accumulates in the low area at the west side will build head in more intense storm and back-up onto this site. Ahymo analysis of the existing 36" CMP culvert shows that the high water elevation in a 100-year storm will reach elevation of 58.99 feet which is about half way across the site from west to east.

DEVELOPED DRAINAGE CONDITIONS

The proposed development is a multi story hotel as shown on the Grading Plan (Exhibit 2) in the pocket of this report. The offsite runoff routing from Basins 4, 4A, 6, 7, 8, 9, and 10 are not impacted by the proposed development since it runs along Jefferson to the existing pond along the I-25 access road. Likewise, the runoff from Basins 2 and 3 that flows in the existing rectangular concrete channel immediately north of the north property line is not impacted by the proposed development. When the runoff from Basins 2 and 3 reach the I-25 access road, they discharge into the improved detention pond via a heavily ripraped slope. The pond also collects runoff from the on-site development via surface flow and discharge from the proposed on-site storm drainage system and a concrete rundown in the southwest corner of the parking lot.

The Ahymo analysis of the conditions after the proposed development is complete shows that the 100-year high water level has decreased from 58.99 before development to 57.87 after development. The maximum ponding depth across the drive is 9.6-inches. Since the depth of ponding is decreased in the proposed grading plan, there is no negative impact on adjacent properties.



MAP SCALE 1" = 500'

500 1000 FEET

METERS

PANEL 0138E

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 138 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0138	E
BERNALILLO COUNTY	350001	0138	E

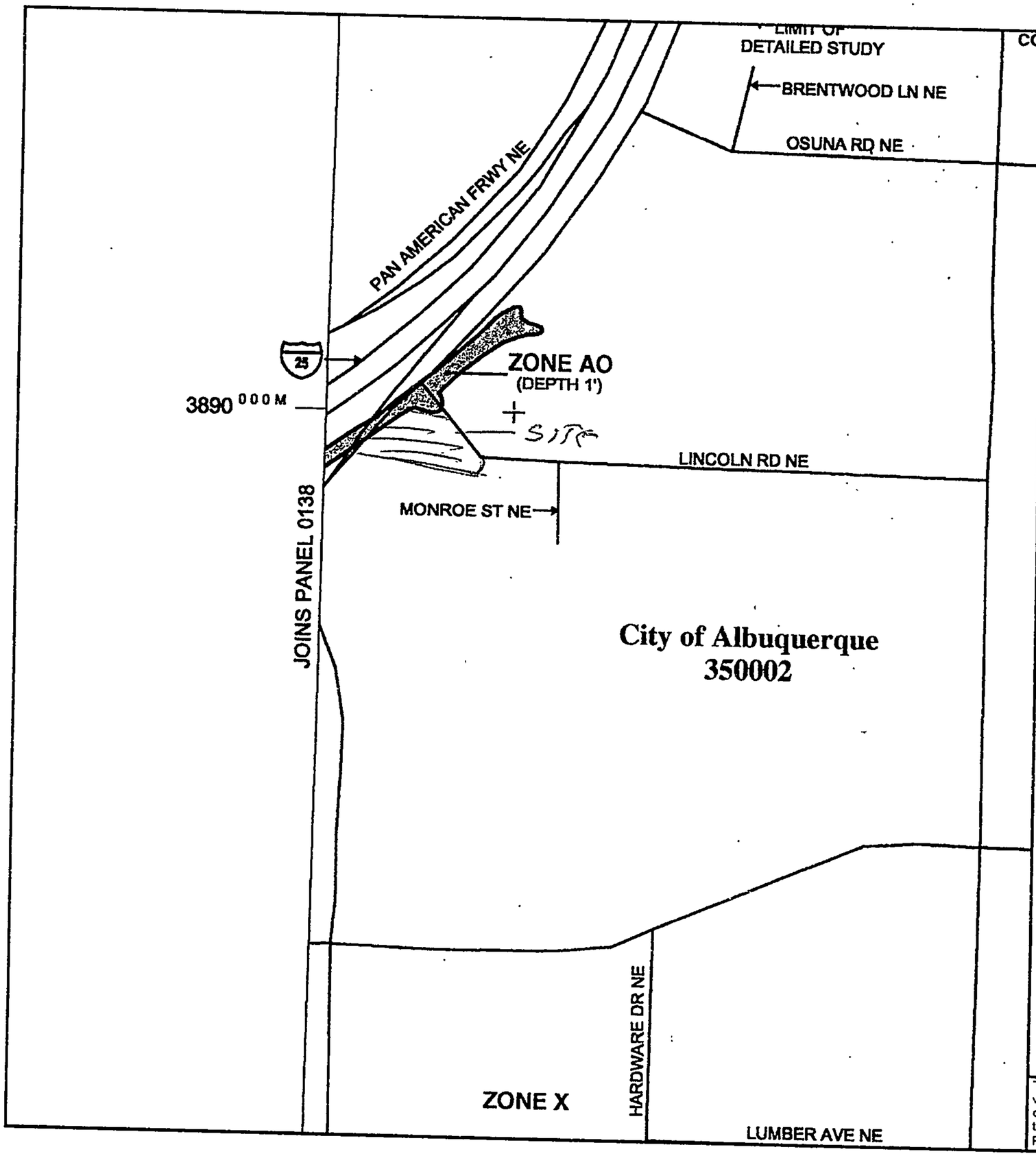
Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
35001C0138E

MAP REVISED
NOVEMBER 19, 2003

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MAP SCALE 1" = 500'

500 1000 FEET

METERS

PANEL 0139E

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO
AND INCORPORATED AREAS

PANEL 139 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0139	E
BERNALILLO COUNTY	350001	0139	E

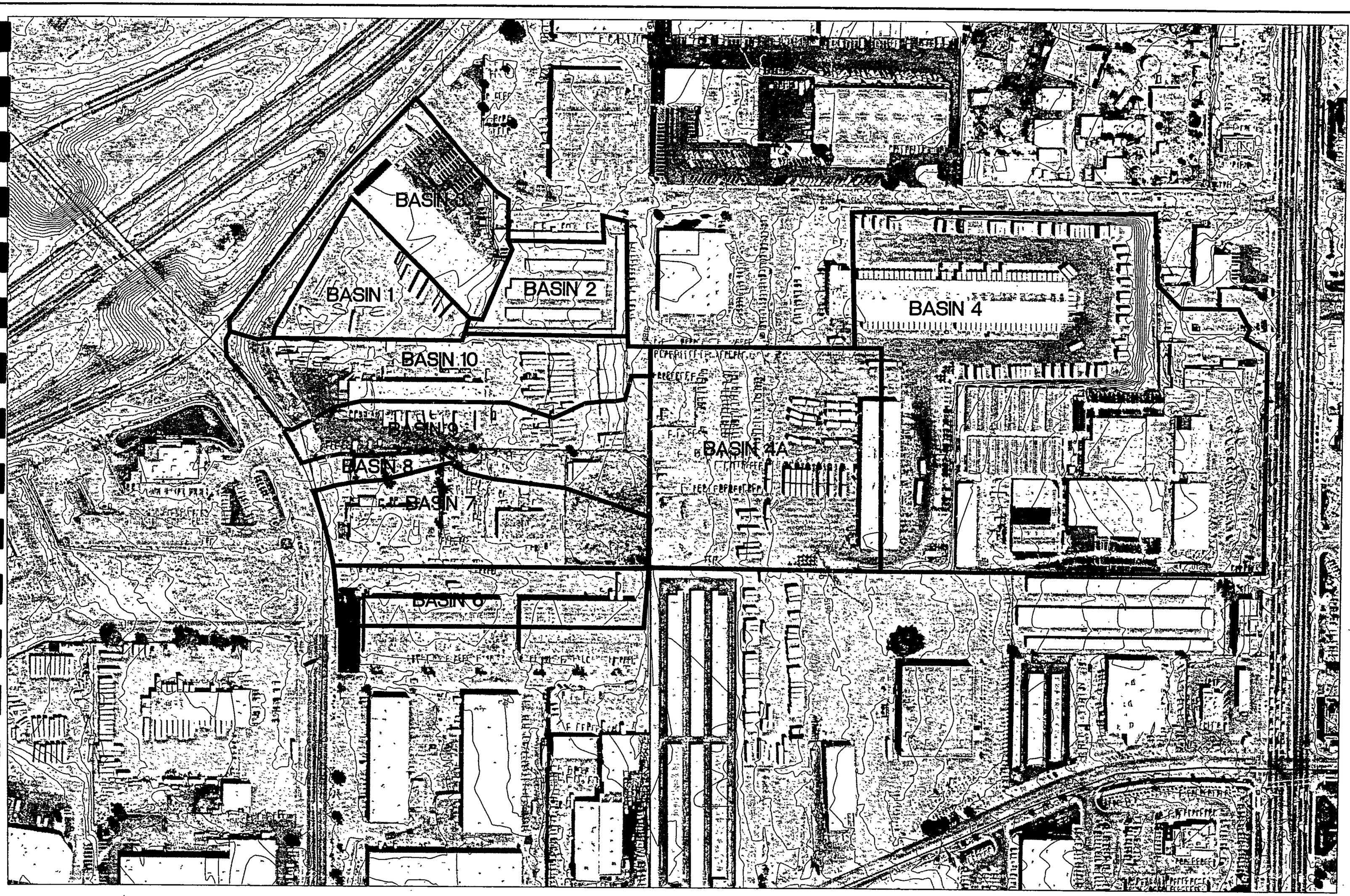
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on Insurance applications for the subject community.

MAP NUMBER
35001C0139E

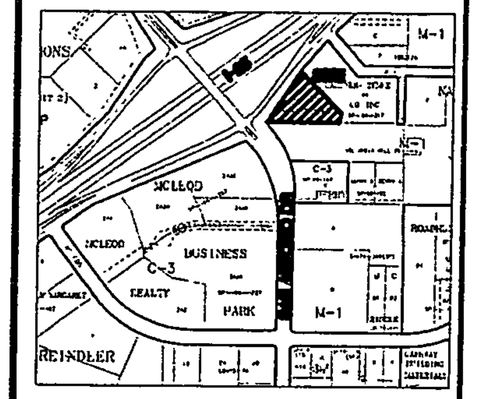
MAP REVISED
NOVEMBER 19, 2003

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



OFFSITE DRAINAGE BASIN MAP
SCALE 1" = 200'



VICINITY MAP F-17

LEGAL DESCRIPTION

PARCEL 2, PORTION OF THE LANDS OF B. C. RINGER, RECORDED 7/8/71, BK 43, PG 80 BERNALILLO COUNTY, NEW MEXICO

ACS BENCHMARK

CITY OF ALBUQUERQUE STATION NO. "I-25-17", BEING AN ACS MONUMENT, WITH AN ELEVATION OF 5171.1

SURVEY NOTES

FIELD SURVEY BY:
RIO GRANDE SURVEY
ALBUQUERQUE, NM

SURVEY DATE: NOV. 2003
PHONE: (505) 764-8891
FAX: (505) 764-8891

LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON INFORMATION SUPPLIED TO THE SURVEYOR BY THE APPROPRIATE UTILITY COMPANIES. NEITHER THE ENGINEER OR SURVEYOR GUARANTEES THESE LOCATIONS NOR THE FACT THAT SOME UTILITIES MIGHT BE LEFT OUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.

THIS IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE USED BY THE OWNER AS SUCH.

FLOODPLAIN

THE PROPERTY SHOWN HEREON IS ADJACENT TO A ZONE "AO (DEPTH 1') DESIGNATED FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, COMMUNITY-PANEL NO. 350010D0136 E; EFFECTIVE DATE NOVEMBER 19, 2003

AFRA Construction
& Design LLC
7004 Avenida La Costa NE
Albuquerque, New Mexico 87109
Tel 505.315.1432

Holiday Inn
I-25 & JEFFERSON
ALBUQUERQUE, NM 87109

NEW	DATE	DESCRIPTION	APVD
1			
2			
3			
4			

C2

APPENDIX A

AHYMO INPUT
AHYMO SUMMARY OUTPUT
AHYMO DETAILED OUTPUT

Rating Table Report
Existing 36" CMP Culvert

Range Data:

	Minimum	Maximum	Increment
Allowable HW Elev:	52.50	60.00	0.50 ft

HW Elev (ft)	Discharge (cfs)
52.50	0.00
53.00	1.05
53.50	4.02
54.00	8.64
54.50	14.61
55.00	21.52
55.50	28.62
56.00	34.91
56.50	38.37
57.00	40.93
57.50	43.42
58.00	45.80
58.50	48.10
59.00	50.31
59.50	52.45
60.00	54.51

© Haestad Methods, Inc.
Larry Read & Associates, Inc
37 Brookside Road Waterbury, CT 06708 USA (203) 755-1666

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02c RUN DATE (MON/DAY/YR) =12/23/2004
INPUT FILE = C:\ACADPR~1\Tafazzul\HOLIDA~1\BIGPON~1.TXT USER NO.= AHYMO-I-9702a0100001A-SH

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
*S COMPUTE 100 YR. 6 HR. HYDROGRAPHS FOR THE HOLIDAY INN										
*S JEFFERSON.DAT - HYMO PER JAN 1993 DPM REVISIONS										
RAINFALL TYPE= 1										RAIN6= 2.350
*S COMPUTE RUNOFF FOR ALL BASINS										
*S DRAINAGE BASINS - EXISTING CONDITIONS										
*S BASIN 1 - SITE										
COMPUTE NM HYD	101.00	-	1	.00266	5.35	.160	1.12724	1.500	3.144	PER IMP= .00
*S BASIN 2 - Z-STORAGE										
COMPUTE NM HYD	102.00	-	2	.00223	6.44	.238	1.99867	1.500	4.510	PER IMP= 90.00
*S BASIN 3 - CHAMPION BUILDING										
COMPUTE NM HYD	103.00	-	3	.00440	12.68	.469	1.99867	1.500	4.504	PER IMP= 90.00
*S BASIN 6 - MONEYSWORTH AUTOMOTIVE COMPLEX										
COMPUTE NM HYD	106.00	-	6	.00320	9.23	.341	1.99867	1.500	4.507	PER IMP= 90.00
*S BASIN 7 - FANTASY WORLD AREA										
COMPUTE NM HYD	107.00	-	7	.00461	13.30	.492	1.99867	1.500	4.504	PER IMP= 90.00
*S BASIN 8 - FANTASY WORLD WEST PARKING AND LANDSCAPE AREA										
COMPUTE NM HYD	108.00	-	8	.00060	1.75	.064	1.99867	1.500	4.547	PER IMP= 90.00
*S BASIN 9 - TRUCK TRAILER SALES AND REPAIR SOUTH AREA										
COMPUTE NM HYD	109.00	-	9	.00430	12.40	.458	1.99867	1.500	4.504	PER IMP= 90.00
*S BASIN 10 - TRUCK TRAILER SALES AND REPAIR NORTH AREA										
COMPUTE NM HYD	110.00	-	10	.00476	13.73	.508	1.99867	1.500	4.504	PER IMP= 90.00
*S ONSITE DRAINAGE BASIN - DEVELOPED										
*S BASIN 11 - SITE										

```
*S
COMPUTE NM HYD        111.00    -    11        .00266         7.67         .284      1.99867    1.500    4.508 PER IMP=  90.00
*S
*S  BASIN 4 - ABF TRUCKING - MAIN SITE
*S
COMPUTE NM HYD        104.00    -     4        .02260        65.07        2.409      1.99867    1.500    4.499 PER IMP=  90.00
*S  BASIN 4A - ABF TRUCKING - WEST PARKING LOT
*S
COMPUTE NM HYD        105.00    -     5        .00880        25.35         .938      1.99867    1.500    4.501 PER IMP=  90.00
*S
*S-------------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH POND ON ABF TRUCKING PROPERTY - MAIN SITE
*S-------------------------------------------------------------------------------
ROUTE RESERVOIR       151.11     4   51        .02260        19.85        2.409      1.99866    1.890    1.372 AC-FT=    1.186
*S-------------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH POND ON ABF TRUCKING PROPERTY - WEST PARKING
*S-------------------------------------------------------------------------------
ROUTE RESERVOIR       152.11     5   52        .00880        14.54         .938      1.99864    1.650    2.582 AC-FT=     .381
ADD HYD               193.10 51&52   93        .03140        32.38        3.347      1.99857    1.680    1.611
*S-------------------------------------------------------------------------------
```

000

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	PAGE = 2 NOTATION
*S TOTAL DISCHARGE FROM APF TRUCKING SITE										
*S----------										
*S----------										
*S ROUTE RUNOFF THROUGH EXISTING CHANNEL BESIDE ROAD TO JEFFERSON										
*S----------										
*S										
ROUTE	264.10	93	64	.03140	30.84	3.347	1.99858	1.800	1.534	
*S										
ADD HYD	160.10	1& 2	80	.00489	11.79	.398	1.52456	1.500	3.767	
ADD HYD	159.10	80& 3	59	.00929	24.47	.867	1.74909	1.500	4.116	
ADD HYD	181.10	59&64	81	.04069	41.10	4.214	1.94160	1.620	1.578	
ADD HYD	182.10	81& 6	82	.04389	46.91	4.555	1.94576	1.590	1.670	
ADD HYD	183.10	82& 7	83	.04850	58.21	5.046	1.95079	1.530	1.875	
ADD HYD	184.10	83& 8	84	.04910	59.90	5.110	1.95137	1.530	1.906	
ADD HYD	185.10	84& 9	85	.05340	71.88	5.569	1.95517	1.530	2.103	
ADD HYD	186.10	85&10	86	.05817	85.13	6.076	1.95873	1.530	2.287	
*S----------										
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25 - EXISTING CONDITIONS										
*S----------										
ROUTE RESERVOIR	190.11	86	90	.05817	50.25	6.076	1.95873	1.920	1.350	AC-FT= .942
*S										
*S										
*S										
*S----------										
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25 - DEVELOPED CONDITIONS										
*S----------										
*S										
ADD HYD	180.10	11& 2	40	.00489	14.11	.521	1.99857	1.500	4.509	
ADD HYD	158.10	40& 3	58	.00929	26.79	.990	1.99859	1.500	4.506	
ADD HYD	181.10	58&64	41	.04069	42.23	4.337	1.99857	1.620	1.622	
ADD HYD	182.10	41& 6	42	.04389	48.26	4.678	1.99857	1.590	1.718	
ADD HYD	183.10	42& 7	43	.04850	60.34	5.170	1.99857	1.530	1.944	
ADD HYD	184.10	43& 8	44	.04910	62.03	5.234	1.99857	1.530	1.974	
ADD HYD	185.10	44& 9	45	.05340	74.00	5.692	1.99857	1.530	2.165	
ADD HYD	186.10	45&10	46	.05817	87.26	6.200	1.99858	1.530	2.344	
*S----------										
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25										
*S----------										
ROUTE RESERVOIR	140.11	46	21	.05817	45.05	6.200	1.99858	2.040	1.210	AC-FT= 1.610
*S										
FINISH										

```
    AHYMO PROGRAM (AHYMO_97) -                          - Version:  1997.02c
         RUN DATE (MON/DAY/YR) = 12/23/2004
         START TIME (HR:MIN:SEC) = 16:29:10     USER NO.= AHYMO-I-9702a0100001A-SH
         INPUT FILE = C:\ACADPR~1\Tafazzul\HOLIDA~1\BIGPON~1.TXT

START                TIME=0   PUNCH=0  PRINT LINES=-6
*S     COMPUTE 100 YR. 6 HR. HYDROGRAPHS FOR THE HOLIDAY INN
*S     JEFFERSON.DAT     -    HYMO PER JAN 1993 DPM REVISIONS
*S  ------------------------------------------------------------------------
*S  ------------------------------------------------------------------------
RAINFALL             TYPE=-1  RAIN QUAR=0 RAIN ONE=2.01 RAIN SIX=2.35
                     RAIN DAY=2.75 DT=0.03

               COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
               DT =     .030000 HOURS       END TIME =     6.000000 HOURS
*S  ------------------------------------------------------------------------
*S  ------------------------------------------------------------------------
*S  COMPUTE RUNOFF FOR ALL BASINS
*S  ------------------------------------------------------------------------
*S  DRAINAGE BASINS - EXISTING CONDITIONS
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  BASIN 1 - SITE
*S
COMPUTE NM HYD       ID=1   HYD NO= 101.0   DA=0.00266 SQ MI
                     PER A=0 PER B=0 PER C=100  PER D=0 TP=-.133
                     RAIN=-1

     K =   .107204HR    TP =   .133000HR    K/TP RATIO =   .806046     SHAPE CONSTANT, N =  4.440701
     UNIT PEAK =   7.6709    CFS   UNIT VOLUME =    .9982       B =   383.55      P60 = 2.0100
     AREA =      .002660 SQ MI    IA =    .35000 INCHES    INF =    .83000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =    .030000

PRINT HYD            ID=1      CODE=10

                              PARTIAL HYDROGRAPH   101.00

     TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW
      HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS
     .000        .0          .900        .0         1.800       1.6         2.700        .1
     .300        .0         1.200        .0         2.100        .5         3.000        .0
     .600        .0         1.500       5.4         2.400        .2         3.300        .0

    RUNOFF VOLUME =     1.12724 INCHES     =        .1599 ACRE-FEET
    PEAK DISCHARGE RATE =       5.35 CFS  AT   1.500 HOURS   BASIN AREA =    .0027 SQ. MI.


*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  BASIN 2 - Z-STORAGE
*S
COMPUTE NM HYD       ID=2   HYD NO= 102.0   DA=0.00223 SQ MI
                     PER A=0 PER B=5 PER C=5  PER D=90 TP=-.133
                     RAIN=-1

     K =   .072485HR    TP =   .133000HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   7.9416    CFS   UNIT VOLUME =    .9985       B =   526.28      P60 = 2.0100
     AREA =      .002007 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =    .030000


     K =   .119497HR    TP =   .133000HR    K/TP RATIO =   .898476     SHAPE CONSTANT, N =  3.944947
     UNIT PEAK =    .58933    CFS   UNIT VOLUME =    .9773       B =   351.48      P60 = 2.0100
     AREA =      .000223 SQ MI    IA =    .42500 INCHES    INF =   1.04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =    .030000
```

PRINT HYD ID=2 CODE=10

PARTIAL HYDROGRAPH 102.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	6.4	3.000	.1	4.500	.0	6.000	.0
.300	.0	1.800	2.3	3.300	.0	4.800	.0	6.300	.0
.600	.0	2.100	1.1	3.600	.0	5.100	.0	6.600	.0
.900	.0	2.400	.3	3.900	.0	5.400	.0		
1.200	.1	2.700	.1	4.200	.0	5.700	.0		

RUNOFF VOLUME = 1.99867 INCHES = .2377 ACRE-FEET
PEAK DISCHARGE RATE = 6.44 CFS AT 1.500 HOURS BASIN AREA = .0022 SQ. MI.

*S -
*S BASIN 3 - CHAMPION BUILDING
*S
COMPUTE NM HYD ID=3 HYD NO= 103.0 DA=0.00440 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 15.670 CFS UNIT VOLUME = .9992 B = 526.28 P60 = 2.0100
AREA = .003960 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = 1.1628 CFS UNIT VOLUME = .9884 B = 351.48 P60 = 2.0100
AREA = .000440 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=3 CODE=10

PARTIAL HYDROGRAPH 103.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	12.7	3.000	.1	4.500	.1	6.000	.1
.300	.0	1.800	4.5	3.300	.1	4.800	.1	6.300	.0
.600	.0	2.100	2.2	3.600	.1	5.100	.1	6.600	.0
.900	.0	2.400	.5	3.900	.1	5.400	.1		
1.200	.2	2.700	.2	4.200	.1	5.700	.1		

RUNOFF VOLUME = 1.99867 INCHES = .4690 ACRE-FEET
PEAK DISCHARGE RATE = 12.68 CFS AT 1.500 HOURS BASIN AREA = .0044 SQ. MI.

*S -
*S -
*S -
*S BASIN 6 - MONEYSWORTH AUTOMOTIVE COMPLEX
*S
COMPUTE NM HYD ID=6 HYD NO= 106.0 DA=0.003200 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 11.396 CFS UNIT VOLUME = .9988 B = 526.28 P60 = 2.0100
AREA = .002880 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = .84567 CFS UNIT VOLUME = .9838 B = 351.48 P60 = 2.0100
AREA = .000320 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=6 CODE=10

PARTIAL HYDROGRAPH 106.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	9.2	3.000	.1	4.500	.0	6.000	.1
.300	.0	1.800	3.3	3.300	.1	4.800	.1	6.300	.0
.600	.0	2.100	1.6	3.600	.1	5.100	.1	6.600	.0
.900	.0	2.400	.4	3.900	.1	5.400	.1		
1.200	.2	2.700	.2	4.200	.1	5.700	.1		

RUNOFF VOLUME = 1.99867 INCHES = .3411 ACRE-FEET
PEAK DISCHARGE RATE = 9.23 CFS AT 1.500 HOURS BASIN AREA = .0032 SQ. MI.

*S -
*S BASIN 7 - FANTASY WORLD AREA
*S
COMPUTE NM HYD ID=7 HYD NO= 107.0 DA=0.004613 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 16.428 CFS UNIT VOLUME = .9992 B = 526.28 P60 = 2.0100
AREA = .004152 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000
.

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = 1.2191 CFS UNIT VOLUME = .9894 B = 351.48 P60 = 2.0100
AREA = .000461 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=7 CODE=10

PARTIAL HYDROGRAPH 107.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	13.3	3.000	.1	4.500	.1	6.000	.1
.300	.0	1.800	4.7	3.300	.1	4.800	.1	6.300	.0
.600	.0	2.100	2.3	3.600	.1	5.100	.1	6.600	.0
.900	.0	2.400	.6	3.900	.1	5.400	.1		
1.200	.2	2.700	.3	4.200	.1	5.700	.1		

RUNOFF VOLUME = 1.99867 INCHES = .4917 ACRE-FEET
PEAK DISCHARGE RATE = 13.30 CFS AT 1.500 HOURS BASIN AREA = .0046 SQ. MI.

*S -
*S BASIN 8 - FANTASY WORLD WEST PARKING AND LANDSCAPE AREA
*S
COMPUTE NM HYD ID=8 HYD NO= 108.0 DA=0.000601 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 2.1403 CFS UNIT VOLUME = .9944 B = 526.28 P60 = 2.0100
AREA = .000541 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = .15883 CFS UNIT VOLUME = .9131 B = 351.48 P60 = 2.0100
AREA = .000060 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=8 CODE=10

PARTIAL HYDROGRAPH 108.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	1.7	3.000	.0	4.500	.0	6.000	.0
.300	.0	1.800	.6	3.300	.0	4.800	.0	6.300	.0
.600	.0	2.100	.3	3.600	.0	5.100	.0		
.900	.0	2.400	.1	3.900	.0	5.400	.0		
1.200	.0	2.700	.0	4.200	.0	5.700	.0		

RUNOFF VOLUME = 1.99867 INCHES = .0641 ACRE-FEET
PEAK DISCHARGE RATE = 1.75 CFS AT 1.500 HOURS BASIN AREA = .0006 SQ. MI.

*S - - -

```
*S  BASIN 10 - TRUCK TRAILER SALES AND REPAIR NORTH AREA
*S
COMPUTE NM HYD       ID=10   HYD NO= 110.0   DA=0.004762 SQ MI
                     PER A=0 PER B=5 PER C=5  PER D=90 TP=-.133
                     RAIN=-1

     K =   .072485HR    TP =   .133000HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   16.959    CFS   UNIT VOLUME =    .9992       B =   526.28      P60 = 2.0100
     AREA =      .004286 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .030000


     K =   .119497HR    TP =   .133000HR    K/TP RATIO =   .898476     SHAPE CONSTANT, N =  3.944947
     UNIT PEAK =   1.2585    CFS   UNIT VOLUME =    .9894       B =   351.48      P60 = 2.0100
     AREA =      .000476 SQ MI    IA =    .42500 INCHES    INF =   1.04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .030000

PRINT HYD            ID=1      CODE=10

                                PARTIAL HYDROGRAPH   101.00

     TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW
      HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS
      .000       .0           .900       .0          1.800      1.6          2.700       .1
      .300       .0          1.200       .0          2.100       .5          3.000       .0
      .600       .0          1.500      5.4          2.400       .2          3.300       .0

    RUNOFF VOLUME =     1.12724 INCHES      =        .1599 ACRE-FEET
    PEAK DISCHARGE RATE =       5.35 CFS  AT   1.500 HOURS   BASIN AREA =   .0027 SQ. MI.
```

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*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  ONSITE DRAINAGE BASIN - DEVELOPED
*S - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*S  BASIN 11 - SITE
*S
COMPUTE NM HYD       ID=11   HYD NO= 111.0   DA=0.00266 SQ MI
                     PER A=0 PER B=5 PER C=5  PER D=90 TP=-.133
                     RAIN=-1

     K =   .072485HR    TP =   .133000HR    K/TP RATIO =   .545000     SHAPE CONSTANT, N =  7.106420
     UNIT PEAK =   9.4730    CFS   UNIT VOLUME =    .9987       B =   526.28      P60 = 2.0100
     AREA =      .002394 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .030000


     K =   .119497HR    TP =   .133000HR    K/TP RATIO =   .898476     SHAPE CONSTANT, N =  3.944947
     UNIT PEAK =   .70296    CFS   UNIT VOLUME =    .9808       B =   351.48      P60 = 2.0100
     AREA =      .000266 SQ MI    IA =    .42500 INCHES    INF =   1.04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .030000

PRINT HYD            ID=11     CODE=10

                                PARTIAL HYDROGRAPH   111.00

     TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW          TIME      FLOW
      HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS           HRS       CFS
      .000       .0          1.500       7.7         3.000       .1          4.500       .0          6.000       .1
      .300       .0          1.800       2.7         3.300       .1          4.800       .0          6.300       .0
      .600       .0          2.100       1.3         3.600       .0          5.100       .0          6.600       .0
      .900       .0          2.400        .3         3.900       .0          5.400       .0
     1.200       .1          2.700        .1         4.200       .0          5.700       .0
```

RUNOFF VOLUME = 1.99867 INCHES = .2835 ACRE-FEET
PEAK DISCHARGE RATE = 7.67 CFS AT 1.500 HOURS BASIN AREA = .0027 SQ. MI.

*S
*S BASIN 4 - ABF TRUCKING - MAIN SITE
*S
COMPUTE NM HYD ID=4 HYD NO= 104.0 DA=0.02260 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 80.485 CFS UNIT VOLUME = .9997 B = 526.28 P60 = 2.0100
AREA = .020340 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = 5.9726 CFS UNIT VOLUME = .9979 B = 351.48 P60 = 2.0100
AREA = .002260 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=4 CODE=10

PARTIAL HYDROGRAPH 104.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	65.1	3.000	.7	4.500	.4	6.000	.4
.300	.0	1.800	23.1	3.300	.5	4.800	.4	6.300	.1
.600	.0	2.100	11.4	3.600	.4	5.100	.4	6.600	.0
.900	.0	2.400	2.7	3.900	.4	5.400	.4	6.900	.0
1.200	1.1	2.700	1.3	4.200	.4	5.700	.4		

RUNOFF VOLUME = 1.99867 INCHES = 2.4091 ACRE-FEET
PEAK DISCHARGE RATE = 65.07 CFS AT 1.500 HOURS BASIN AREA = .0226 SQ. MI.

*S BASIN 4A - ABF TRUCKING - WEST PARKING LOT
*S
COMPUTE NM HYD ID=5 HYD NO= 105.0 DA=0.0088 SQ MI
PER A=0 PER B=5 PER C=5 PER D=90 TP=-.133
RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 31.339 CFS UNIT VOLUME = .9995 B = 526.28 P60 = 2.0100
AREA = .007920 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

K = .119497HR TP = .133000HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947
UNIT PEAK = 2.3256 CFS UNIT VOLUME = .9941 B = 351.48 P60 = 2.0100
AREA = .000880 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .030000

PRINT HYD ID=5 CODE=10

PARTIAL HYDROGRAPH 105.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	25.3	3.000	.3	4.500	.1	6.000	.2
.300	.0	1.800	9.0	3.300	.2	4.800	.1	6.300	.0

.600	.0	2.100	4.4	3.600	.2	5.100	.1	6.600	.0
.900	.0	2.400	1.1	3.900	.1	5.400	.1	6.900	.0
1.200	.4	2.700	.5	4.200	.1	5.700	.2		

RUNOFF VOLUME = 1.99867 INCHES = .9380 ACRE-FEET
PEAK DISCHARGE RATE = 25.35 CFS AT 1.500 HOURS BASIN AREA = .0088 SQ. MI.

```
*S
*S--------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH POND ON ABF TRUCKING PROPERTY - MAIN SITE
*S--------------------------------------------------------------------------
ROUTE RESERVOIR     ID=51  HYD NO=151.11 INFLOW ID=4  CODE=10
                    OUTFLOW (CFS)   STORAGE (AC FT)   ELEV (FT)
                         0.00            0.0000          86.84
                        24.78            1.4804          87.48
                        25.53            3.7574          88.00

  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
```

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	86.84	.000	.00
.30	.00	86.84	.000	.00
.60	.00	86.84	.000	.00
.90	.00	86.84	.000	.00
1.20	1.12	86.84	.002	.03
1.50	65.07	87.10	.605	10.13
1.80	23.11	87.35	1.176	19.69
2.10	11.37	87.32	1.121	18.77
2.40	2.73	87.20	.844	14.12
2.70	1.28	87.10	.594	9.95
3.00	.75	87.02	.412	6.89
3.30	.51	86.96	.284	4.76
3.60	.42	86.93	.197	3.30
3.90	.37	86.90	.138	2.31
4.20	.35	86.88	.098	1.65
4.50	.35	86.87	.072	1.21
4.80	.35	86.86	.055	.92
5.10	.36	86.86	.043	.73
5.40	.38	86.86	.036	.61
5.70	.40	86.85	.032	.54
6.00	.43	86.85	.030	.50
6.30	.06	86.85	.024	.40
6.60	.01	86.85	.016	.28
6.90	.00	86.84	.011	.18
7.20	.00	86.84	.007	.12
7.50	.00	86.84	.005	.08
7.80	.00	86.84	.003	.05
8.10	.00	86.84	.002	.04
8.40	.00	86.84	.001	.02
8.70	.00	86.84	.001	.02
9.00	.00	86.84	.001	.01
9.30	.00	86.84	.000	.01
9.60	.00	86.84	.000	.00

PEAK DISCHARGE = 19.849 CFS - PEAK OCCURS AT HOUR 1.89
MAXIMUM WATER SURFACE ELEVATION = 87.353
MAXIMUM STORAGE = 1.1858 AC-FT INCREMENTAL TIME= .030000HRS

PRINT HYD ID=51 CODE=10

PARTIAL HYDROGRAPH 151.11

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.400	14.1	4.800	.9	7.200	.1	9.600	.0
.300	.0	2.700	9.9	5.100	.7	7.500	.1	9.900	.0
.600	.0	3.000	6.9	5.400	.6	7.800	.1	10.200	.0
.900	.0	3.300	4.8	5.700	.5	8.100	.0	10.500	.0
1.200	.0	3.600	3.3	6.000	.5	8.400	.0		
1.500	10.1	3.900	2.3	6.300	.4	8.700	.0		
1.800	19.7	4.200	1.6	6.600	.3	9.000	.0		
2.100	18.8	4.500	1.2	6.900	.2	9.300	.0		

RUNOFF VOLUME = 1.99866 INCHES = 2.4090 ACRE-FEET
PEAK DISCHARGE RATE = 19.85 CFS AT 1.890 HOURS BASIN AREA = .0226 SQ. MI.

```
*S--------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH POND ON ABF TRUCKING PROPERTY - WEST PARKING
*S--------------------------------------------------------------------------
ROUTE RESERVOIR     ID=52  HYD NO=152.11 INFLOW ID=5  CODE=10
                    OUTFLOW (CFS)   STORAGE (AC FT)   ELEV (FT)
                        0.00             0.0000          77.50
                        3.56             0.3270          78.00
                      103.06             0.8174          78.25

  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
```

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	77.50	.000	.00
.30	.00	77.50	.000	.00
.60	.00	77.50	.000	.00
.90	.00	77.50	.000	.00
1.20	.44	77.50	.001	.01
1.50	25.35	77.88	.245	2.67
1.80	9.00	78.02	.361	10.47
2.10	4.43	78.00	.337	5.50
2.40	1.06	77.95	.295	3.21
2.70	.50	77.87	.241	2.62
3.00	.28	77.79	.192	2.09
3.30	.20	77.73	.152	1.65
3.60	.16	77.68	.120	1.30
3.90	.15	77.64	.095	1.03
4.20	.14	77.62	.075	.82
4.50	.14	77.59	.060	.66
4.80	.14	77.58	.049	.53
5.10	.14	77.56	.041	.44
5.40	.15	77.55	.034	.37
5.70	.16	77.54	.029	.32
6.00	.17	77.54	.026	.28
6.30	.02	77.53	.022	.24
6.60	.01	77.53	.017	.18
6.90	.00	77.52	.013	.14
7.20	.00	77.52	.010	.11
7.50	.00	77.51	.008	.08
7.80	.00	77.51	.006	.06
8.10	.00	77.51	.004	.05
8.40	.00	77.51	.003	.04
8.70	.00	77.50	.003	.03
9.00	.00	77.50	.002	.02
9.30	.00	77.50	.001	.02
9.60	.00	77.50	.001	.01
9.90	.00	77.50	.001	.01
10.20	.00	77.50	.001	.01

```
   10.50       .00      77.50        .001        .01
   10.80       .00      77.50        .000        .00
 PEAK DISCHARGE =       14.540 CFS - PEAK OCCURS AT HOUR    1.65
 MAXIMUM WATER SURFACE ELEVATION =       78.028
 MAXIMUM STORAGE =         .3811 AC-FT      INCREMENTAL TIME=     .030000HRS

PRINT HYD           ID=52 CODE=10
```

PARTIAL HYDROGRAPH 152.11

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	2.6	5.400	.4	8.100	.0	10.800	.0
.300	.0	3.000	2.1	5.700	.3	8.400	.0	11.100	.0
.600	.0	3.300	1.7	6.000	.3	8.700	.0	11.400	.0
.900	.0	3.600	1.3	6.300	.2	9.000	.0	11.700	.0
1.200	.0	3.900	1.0	6.600	.2	9.300	.0	12.000	.0
1.500	2.7	4.200	.8	6.900	.1	9.600	.0	12.300	.0
1.800	10.5	4.500	.7	7.200	.1	9.900	.0		
2.100	5.5	4.800	.5	7.500	.1	10.200	.0		
2.400	3.2	5.100	.4	7.800	.1	10.500	.0		

```
    RUNOFF VOLUME =     1.99864 INCHES      =        .9380 ACRE-FEET
    PEAK DISCHARGE RATE =      14.54 CFS  AT   1.650 HOURS   BASIN AREA =    .0088 SQ. MI.


ADD HYD             ID=93   HYD NO = 193.1 ID I = 51 ID II = 52
*S-------------------------------------------------------------------------
*S  TOTAL DISCHARGE FROM APF TRUCKING SITE
*S-------------------------------------------------------------------------
PRINT HYD           ID=93 CODE=10
```

PARTIAL HYDROGRAPH 193.10

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	12.6	5.400	1.0	8.100	.1	10.800	.0
.300	.0	3.000	9.0	5.700	.9	8.400	.1	11.100	.0
.600	.0	3.300	6.4	6.000	.8	8.700	.0	11.400	.0
.900	.0	3.600	4.6	6.300	.6	9.000	.0	11.700	.0
1.200	.0	3.900	3.3	6.600	.5	9.300	.0	12.000	.0
1.500	12.8	4.200	2.5	6.900	.3	9.600	.0	12.300	.0
1.800	30.2	4.500	1.9	7.200	.2	9.900	.0		
2.100	24.3	4.800	1.5	7.500	.2	10.200	.0		
2.400	17.3	5.100	1.2	7.800	.1	10.500	.0		

```
    RUNOFF VOLUME =     1.99857 INCHES      =       3.3469 ACRE-FEET
    PEAK DISCHARGE RATE =      32.38 CFS  AT   1.680 HOURS   BASIN AREA =    .0314 SQ. MI.


*S-------------------------------------------------------------------------
*S ROUTE RUNOFF THROUGH EXISTING CHANNEL BESIDE ROAD TO JEFFERSON
*S-------------------------------------------------------------------------
COMPUTE RATING CURVE  CID=1  VS NO=11 NO SEGS=1
                      MIN ELEV=100 MAX ELEV=101.50
                      CHNL SLP=0.0164  FP SLP=0.0164 N=0.017 DIST=54.5
                      DIST  ELEV     DIST   ELEV     DIST    ELEV
                       0    101.50   0.5    101.00   1.50    100.00
                      4.50  100.0    4.51   101.00   54.5    101.50
```

RATING CURVE VALLEY SECTION 11.0

WATER SURFACE	FLOW AREA	FLOW RATE	TOP WIDTH

ELEV	SQ FT	CFS	FT
100.00	.00	.00	3.00
100.08	.24	.48	3.08
100.16	.49	1.49	3.16
100.24	.74	2.89	3.24
100.32	1.00	4.61	3.32
100.39	1.26	6.61	3.40
100.47	1.53	8.86	3.48
100.55	1.81	11.34	3.56
100.63	2.10	14.05	3.64
100.71	2.39	16.97	3.72
100.79	2.68	20.09	3.80
100.87	2.99	23.41	3.88
100.95	3.30	26.92	3.96
101.03	3.65	24.00	6.67
101.11	4.49	21.44	14.64
101.18	5.96	26.27	22.61
101.26	8.06	35.89	30.59
101.34	10.79	50.31	38.56
101.42	14.15	70.02	46.53
101.50	18.13	95.60	54.50

*S
COMPUTE TRAVEL TIME ID=63 REACH NO=1 NO VS=1 L=996 FT
SLP=0.0164

TRAVEL TIME TABLE
REACH= 1.0

WATER DEPTH FEET	AVERAGE AREA SQ.FT.	FLOW RATE CFS	TRAVEL TIME HRS
.079	.240	.48	.1387
.158	.486	1.49	.0900
.237	.739	2.89	.0707
.316	.998	4.61	.0599
.395	1.263	6.61	.0529
.474	1.534	8.86	.0479
.553	1.812	11.34	.0442
.632	2.096	14.05	.0413
.711	2.387	16.97	.0389
.789	2.683	20.09	.0370
.868	2.986	23.41	.0353
.947	3.295	26.92	.0339
.882	3.038	24.00	.0350
.822	2.807	21.44	.0362
.933	3.239	26.27	.0341
1.263	8.058	35.89	.0621
1.342	10.787	50.31	.0593
1.421	14.146	70.02	.0559
1.500	18.134	95.60	.0525

ROUTE ID=64 HYD=264.1 IN ID=93 DT=0.0
PROBLEM FAILED TO CONVERGE AFTER 50 ITERATIONS. CONVERGENCE WAS FORCED. OUTFLOW NUMBER = 70 RATE = 26.25
PRINT HYD ID=64 CODE=10

PARTIAL HYDROGRAPH 264.10

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	13.0	5.400	1.0	8.100	.1	10.800	.0
.300	.0	3.000	9.3	5.700	.9	8.400	.1	11.100	.0
.600	.0	3.300	6.7	6.000	.8	8.700	.1	11.400	.0
.900	.0	3.600	4.8	6.300	.7	9.000	.0	11.700	.0
1.200	.0	3.900	3.5	6.600	.5	9.300	.0	12.000	.0
1.500	9.8	4.200	2.6	6.900	.4	9.600	.0	12.300	.0
1.800	30.8	4.500	2.0	7.200	.3	9.900	.0		

2.100	26.5	4.800	1.5	7.500	.2	10.200	.0
2.400	17.8	5.100	1.2	7.800	.1	10.500	.0

RUNOFF VOLUME = 1.99858 INCHES = 3.3469 ACRE-FEET
PEAK DISCHARGE RATE = 30.84 CFS AT 1.800 HOURS BASIN AREA = .0314 SQ. MI.

```
*S
ADD HYD             ID=80   HYD NO = 160.1 ID I = 1 ID II = 2
ADD HYD             ID=59   HUD NO = 159.1 ID I = 80  ID II = 3
ADD HYD             ID=81   HYD NO = 181.1 ID I = 59 ID II = 64
ADD HYD             ID=82   HYD NO = 182.1 ID I = 81 ID II = 6
ADD HYD             ID=83   HYD NO = 183.1 ID I = 82 ID II = 7
ADD HYD             ID=84   HYD NO = 184.1 ID I = 83 ID II = 8
ADD HYD             ID=85   HYD NO = 185.1 ID I = 84 ID II = 9
ADD HYD             ID=86   HYD NO = 186.1 ID I = 85 ID II = 10
*S-------------------------------------------------------------------------
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25 - EXISTING CONDITIONS
*S-------------------------------------------------------------------------
ROUTE RESERVOIR     ID=90  HYD NO=190.11 INFLOW ID=86  CODE=10
                    OUTFLOW (CFS)   STORAGE (AC FT)   ELEV (FT)
                        0.00            0.0000          52.50
                        4.00            0.00008         53.00
                        14.2            0.0070          54.00
                        26.8            0.0666          55.00
                        35.3            0.1718          56.00
                        40.8            0.2914          57.00
                        45.7            0.5615          58.00
                        50.3            0.9464          59.00
                        54.5            1.5043          60.00
                        58.5            2.0313          61.00
                        62.2            2.4502          62.00
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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	52.50	.000	.00
.30	.00	52.50	.000	.00
.60	.00	52.50	.000	.00
.90	.00	52.50	.000	.00
1.20	1.20	52.65	.000	1.19
1.50	84.64	57.16	.334	41.58
1.80	57.12	58.90	.906	49.82
2.10	39.10	58.80	.870	49.38
2.40	20.87	57.35	.387	42.53
2.70	14.36	54.29	.024	17.83
3.00	10.09	53.61	.004	10.18
3.30	7.21	53.32	.002	7.27
3.60	5.26	53.13	.001	5.30
3.90	3.90	52.99	.000	3.89
4.20	2.94	52.87	.000	2.94
4.50	2.33	52.79	.000	2.33
4.80	1.90	52.74	.000	1.90
5.10	1.59	52.70	.000	1.59
5.40	1.42	52.68	.000	1.42
5.70	1.31	52.66	.000	1.31
6.00	1.26	52.66	.000	1.26
6.30	.75	52.59	.000	.75
6.60	.54	52.57	.000	.54
6.90	.38	52.55	.000	.38
7.20	.27	52.53	.000	.27
7.50	.19	52.52	.000	.19

7.80	.14	52.52	.000	.14
8.10	.10	52.51	.000	.10
8.40	.07	52.51	.000	.07
8.70	.05	52.51	.000	.05
9.00	.04	52.50	.000	.04
9.30	.03	52.50	.000	.03
9.60	.02	52.50	.000	.02
9.90	.01	52.50	.000	.01
10.20	.01	52.50	.000	.01
10.50	.01	52.50	.000	.01
10.80	.01	52.50	.000	.01
11.10	.00	52.50	.000	.00

PEAK DISCHARGE = 50.246 CFS - PEAK OCCURS AT HOUR 1.92
MAXIMUM WATER SURFACE ELEVATION = 58.988
MAXIMUM STORAGE = .9419 AC-FT INCREMENTAL TIME= .030000HRS

PRINT HYD ID=90 CODE=10

PARTIAL HYDROGRAPH 190.11

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	17.8	5.400	1.4	8.100	.1	10.800	.0
.300	.0	3.000	10.2	5.700	1.3	8.400	.1	11.100	.0
.600	.0	3.300	7.3	6.000	1.3	8.700	.1	11.400	.0
.900	.0	3.600	5.3	6.300	.8	9.000	.0	11.700	.0
1.200	1.2	3.900	3.9	6.600	.5	9.300	.0	12.000	.0
1.500	41.6	4.200	2.9	6.900	.4	9.600	.0	12.300	.0
1.800	49.8	4.500	2.3	7.200	.3	9.900	.0		
2.100	49.4	4.800	1.9	7.500	.2	10.200	.0		
2.400	42.5	5.100	1.6	7.800	.1	10.500	.0		

RUNOFF VOLUME = 1.95873 INCHES = 6.0763 ACRE-FEET
PEAK DISCHARGE RATE = 50.25 CFS AT 1.920 HOURS BASIN AREA = .0582 SQ. MI.

*S
*S
*S
*S----------
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25 - DEVELOPED CONDITIONS
*S----------
*S
ADD HYD ID=40 HYD NO = 180.1 ID I = 11 ID II = 2
ADD HYD ID=58 HYD NO = 158.1 ID I = 40 ID II = 3
ADD HYD ID=41 HYD NO = 181.1 ID I = 58 ID II = 64
ADD HYD ID=42 HYD NO = 182.1 ID I = 41 ID II = 6
ADD HYD ID=43 HYD NO = 183.1 ID I = 42 ID II = 7
ADD HYD ID=44 HYD NO = 184.1 ID I = 43 ID II = 8
ADD HYD ID=45 HYD NO = 185.1 ID I = 44 ID II = 9
ADD HYD ID=46 HYD NO = 186.1 ID I = 45 ID II = 10
*S----------
*S ROUTE DEVELOPED RUNOFF THROUGH EXISTING POND AT I-25
*S----------
ROUTE RESERVOIR ID=21 HYD NO=140.11 INFLOW ID=46 CODE=10

OUTFLOW (CFS)	STORAGE (AC FT)	ELEV (FT)
0.00	0.0000	52.50
4.00	0.0710	53.00
14.2	0.3550	54.00
26.8	0.6389	55.00
35.3	0.9229	56.00
40.8	1.2438	57.00
45.7	1.6666	58.00

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	52.50	.000	.00
.30	.00	52.50	.000	.00
.60	.00	52.50	.000	.00
.90	.00	52.50	.000	.00
1.20	1.33	52.52	.002	.12
1.50	86.96	55.06	.657	27.33
1.80	58.24	57.54	1.472	43.44
2.10	39.96	57.83	1.596	44.88
2.40	21.04	56.90	1.211	40.24
2.70	14.44	55.42	.757	30.35
3.00	10.15	54.35	.455	18.62
3.30	7.26	53.80	.298	12.15
3.60	5.31	53.45	.198	8.56
3.90	3.94	53.21	.131	6.15
4.20	2.99	53.05	.085	4.51
4.50	2.38	52.90	.056	3.16
4.80	1.95	52.80	.042	2.36
5.10	1.63	52.74	.034	1.89
5.40	1.47	52.70	.029	1.61
5.70	1.36	52.68	.026	1.45
6.00	1.31	52.67	.024	1.36
6.30	.76	52.63	.019	1.06
6.60	.54	52.59	.013	.73
6.90	.38	52.56	.009	.51
7.20	.27	52.55	.006	.36
7.50	.19	52.53	.005	.26
7.80	.14	52.52	.003	.18
8.10	.10	52.52	.002	.13
8.40	.07	52.51	.002	.09
8.70	.05	52.51	.001	.07
9.00	.04	52.51	.001	.05
9.30	.03	52.50	.001	.03
9.60	.02	52.50	.000	.03
9.90	.01	52.50	.000	.02
10.20	.01	52.50	.000	.01
10.50	.01	52.50	.000	.01
10.80	.01	52.50	.000	.01
11.10	.00	52.50	.000	.00

PEAK DISCHARGE = 45.048 CFS - PEAK OCCURS AT HOUR 2.04
MAXIMUM WATER SURFACE ELEVATION = 57.867
MAXIMUM STORAGE = 1.6104 AC-FT INCREMENTAL TIME= .030000HRS

PRINT HYD ID=21 CODE=10

PARTIAL HYDROGRAPH 140.11

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.700	30.3	5.400	1.6	8.100	.1	10.800	.0
.300	.0	3.000	18.6	5.700	1.5	8.400	.1	11.100	.0
.600	.0	3.300	12.1	6.000	1.4	8.700	.1	11.400	.0
.900	.0	3.600	8.6	6.300	1.1	9.000	.0	11.700	.0
1.200	.1	3.900	6.1	6.600	.7	9.300	.0	12.000	.0
1.500	27.3	4.200	4.5	6.900	.5	9.600	.0	12.300	.0
1.800	43.4	4.500	3.2	7.200	.4	9.900	.0		
2.100	44.9	4.800	2.4	7.500	.3	10.200	.0		
2.400	40.2	5.100	1.9	7.800	.2	10.500	.0		

RUNOFF VOLUME = 1.99858 INCHES = 6.1999 ACRE-FEET
PEAK DISCHARGE RATE = 45.05 CFS AT 2.040 HOURS BASIN AREA = .0582 SQ. MI.

*S
FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 16:29:11
(s03z~~Sf* 6h \ F ou
EuF\ XS* u/CSuBz*S3*NzII
EuF\ XS* u/CSuBz*S3*N/J*z
EuF\ XS* BS*N~S4aJ~
EuF\ XS* S3zfz~z4SNzII
EuF\ XS* BSXz\J*azfN:ee
EuF\ Sf*SB \/fC

Academy Repro

DEVELOPMENT & BUILDING SERVICE CENTER
ONE STOP SHOP
600 SECOND ST. N.W.
ATTENTION: Hydrology
505-924-3900

Records Withdrawal Form

Project No. F17/D90 **Date:** 3/15/05

Project Title: Holiday Inn - Jefferson

a. ~~File~~ b. Mylars c. Redlines/Comments
d. Other Drainage Report

Requested by: Faisell Kassam - 489-4474 **Phone No.:** _____
Name and Company

Comments:
2 copies

Anticipated Return Date: _____

I hereby accept full responsibility for the security of the above noted records/plans until return receipt acknowledgement is completed. Records/plans will be returned to the Development and Building Services Center on or before the indicted anticipated return date.

Delivery Picked Up By:

Name: RONALD BLADES **Organization:** Academy Repro
Print

Signed: Ronald Blades **Date:** 3-15-05

Office Use Only

Return Acknowledged:

Received By: Bobbie Loveless **Date:** 3-16-05
Print

File
F-17/D90

New Mexico DEPARTMENT OF
TRANSPORTATION
MOBILITY FOR EVERYONE

District Three Office - Albuquerque

August 30, 2005

Mr. Faizal Kassam
13215 Velma Ct. NE
Albuquerque, New Mexico 87112

Subject: NE Corner of the Jefferson and NB I-25 Frontage Road Intersection
Albuquerque, Bernalillo County, District Three

Dear Mr. Kassam:

The NMDOT has reviewed the design drawings (stamped on 8 30/2005) for the sidewalk and slope work at the NE Corner of the Jefferson and NB I-25 Frontage Road Intersection. This work is being done in conjunction with the construction of the New Holiday Inn Development.

We concur with the design as long as the following issues are addressed on the plans and are implemented during construction:

1. The wheel chair ramps shall be constructed in accordance with NMDOT specs. The side slopes on the wheel chair ramps shall be changed from 12:1 to 15:1 to match NMDOT standards.
2. The contactor shall be required to install ADA truncated domms along the wheel chair ramps in accordance with NMDOT standard drawings.
3. A note shall be placed in the plans requiring that the contrac or contact my office to obtain approval for the location of the ramps prior to the constructio n of the ramps.
4. The median on Jefferson will have to cut to provide for a safe wheel chair access across Jefferson on the east leg of the Jefferson and NB I-25 Frontage Road Intersection.
5. The roadway slopes between the NB I-25 Frontage Road and the Holiday Inn property, as show on Page C2, shall not be steeper that 2:1. The slopes shall be seeded in accordance with the NMDOT specs
6. On Page C3, the finish elevation of the sidewalk on the roadway side shall match the finish elevation of the curb and gutter.

If you have any questions, please feel free to give me a call at 841 2761

Sincerely,

Tony Abbo, P.E., P.T.O.E.
District Three Traffic Engineer

cc: File

Tony ABBO (NMDOT) will ensure above items will be completed (verified by TA 9/1/05 90 from)

RECEIVED
AUG 30 2005
HYDROLOGY SECTION

Bill Richardson
Governor

Rhonda G. Faught P.E.
Cabinet Secretary

Commission

Johnny Cope
Chairman
District 2

David Schutz
Vice Chairman
District 5

Gregory T. Ortiz
Secretary
District 6

Norman Assed
Commissioner
District 3

Jim Franken
Commissioner
District 4

John L. Hummer
Commissioner
District 1

CITY OF ALBUQUERQUE

December 16, 2004

Tafazzul Hussain, R.A.
2501 Yale Blvd SE
Albuquerque, NM 87112

Re: Holiday Inn, 5050 Jefferson St NE, Traffic Circulation Layout
Architect's Stamp dated 12-10-04 (F17-D90)

Dear Mr. Hussain,

Based upon the information provided in your submittal received 12-10-04, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

1. The project site is located at the intersection of I-25 and Jefferson Street, not San Antonio Drive. Please see the attached zone atlas page and make the appropriate corrections.
2. Provide a copy of the recorded cross-lot access easement.
3. Show details for the shared drive and provide traffic circulation information on the adjacent lot to the South.
4. Please list the length for all parking spaces.
5. Show the pedestrian path along the access easement.
6. Provide a copy of the calculations used to determine the number of handicapped spaces, as well as the number of van accessible handicapped spaces, required.
7. For passenger vehicles, the minimum end island radius is 15 feet.
8. The 2-foot overhang allowed for parking spaces cannot encroach on the 6 foot required width of sidewalk.
9. Is the roadway along the cross lot access easement paved?
10. The path taken by heavy vehicles to empty the trash enclosure must have a 25-foot end island radius.
11. A five-foot keyway is required for deadend parking aisles.

For more detailed information, please refer to the enclosed mark up. If you have any questions, you can contact me at 924-3991.

Sincerely,

Wilfred A. Gallegos, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

C: file

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: HOLIDAY INN ZONE MAP/DRG. FILE #: F-17/D90
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: PARCEL-2 LANDS OF B.C. RINGER
CITY ADDRESS: 5050 JEFFERSON, NE ALBQ., NM.

ENGINEERING FIRM: LARRY READ & ASSOC. CONTACT: LARRY READ
ADDRESS: 4800 JUANTABO, NE PHONE: 237-8421
CITY, STATE: SUITE-C, ALBQ., NM-87111 ZIP CODE: _____

OWNER: REGAL HOSPITALITY, INC CONTACT: FAIZEL KASSAM.
ADDRESS: 13215 VELMA CT, NE PHONE: 293-2255
CITY, STATE: ALBQ., NM-87112 ZIP CODE: _____

ARCHITECT: AFRA CONSTRUCTION & DESIGN CONTACT: TAFAZZUL HUSSAIN
ADDRESS: 7004 AVENIDA LA COSTA NE PHONE: 315-1482
CITY, STATE: ALBQ., NM-87109 ZIP CODE: _____

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

CONTRACTOR: ALFA LEGACY CONTACT: FAIZEL KASSAM
ADDRESS: 13215 VELMA CT, NE PHONE: 489-4474.
CITY, STATE: ALBQ. NM-87109. ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
_____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
_____ DRAINAGE PLAN RESUBMITTAL
_____ CONCEPTUAL GRADING & DRAINAGE PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
_____ ENGINEER'S CERTIFICATION (HYDROLOGY)
_____ CLOMR/LOMR
✓ TRAFFIC CIRCULATION LAYOUT (TCL)
_____ ENGINEERS CERTIFICATION (TCL)
_____ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

_____ SIA / FINANCIAL GUARANTEE RELEASE
_____ PRELIMINARY PLAT APPROVAL
_____ S. DEV. PLAN FOR SUB'D. APPROVAL
_____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
_____ SECTOR PLAN APPROVAL
_____ FINAL PLAT APPROVAL
_____ FOUNDATION PERMIT APPROVAL
✓ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY (PERM.)
_____ CERTIFICATE OF OCCUPANCY (TEMP.)
_____ GRADING PERMIT APPROVAL
_____ PAVING PERMIT APPROVAL
_____ WORK ORDER APPROVAL
_____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

_____ YES
✓ NO
_____ COPY PROVIDED

DATE SUBMITTED: 12/10/04 BY: Tafazzul Hussain.

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 (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.

RECEIVED
DEC 10 2004
HYDROLOGY SECTION

CITY OF ALBUQUERQUE

October 14, 2004

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

Re: Holiday Inn – I12 @ Jefferson Grading Plan
Engineer's Stamp dated 10-12-04, (F17/D090xxx)

Dear Mr. Read,

Based upon the information provided in your submittal dated 10-12-04, the above referenced plan is approved for Rough Grading only. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

Sincerely,

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

C: file

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: HOLIDAY INN - I25 @ JEFFERSON
DRB #: _____ EPC#: _____

ZONE MAP/DRG. FILE #: F-17 / D090
WORK ORDER#:

LEGAL DESCRIPTION: PARCEL 2, LANDS ON B. C. RINGER
CITY ADDRESS: 4900 JEFFERSON NE

ENGINEERING FIRM: LARRY READ & ASSOCIATES, INC
ADDRESS: 4800 JUAN TABL BLVD. NE SUITE C
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: LARRY READ
PHONE: 237-8421
ZIP CODE: 87111

OWNER: L4EGACY HOSPITALITY, INC
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: FAIZEL KASSAM
PHONE: ~~243-6000~~ 489-4474
ZIP CODE: 87106

ARCHITECT: TAFFAZULE HUSSAIN
ADDRESS: 2501 YALE BLVD. SE SUITE 102
CITY, STATE: ALBUQUERQUE, NEW MEXICO

CONTACT: TAFFAZULE HUSSAIN
PHONE: 315-1482
ZIP CODE: 87106

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT:
PHONE:
ZIP CODE:

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT:
PHONE:
ZIP CODE:

CHECK TYPE OF SUBMITTAL:

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

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☒ OTHER (SPECIFY) Rough Grading

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

Read 10-13-04

DATE SUBMITTED: OCTOBER 12, 2004

BY: LARRY D. READ PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature , location and scope 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:

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2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
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