



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 20, 2001

R.G. Lee, Jr., PE
BJM Development Consultants
4409 Karrol Rd SW
Albuquerque, NM, 87103

**Re: Ramada Limited SO #19 Request
Engineers Stamp 3-19-01 (C18/D33)
5601 Alameda NE**

Dear Mr. Lee,

Based on information provided in your submittal dated 3-20-01, the above referenced plan is approved for SO#19 Permit.

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

Also, please provide to this office a Certified As-built after completion for our files.

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

Sincerely,

Bradley L. Bingham, PE
Sr. Engineer, Hydrology

C: Pam Lujan, CoA
file

DRAINAGE INFORMATION SHEET

APPLICANT'S NAME: RAMADA LIMITED ZONE ATLAS/DRNG. FILE #: C-18-D33

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

LEGAL DESCRIPTION: _____

CITY ADDRESS: 5601 Alameda NE

ENGINEERING FIRM: BTM Development Consultant CONTACT: Bernie J. Martyn

ADDRESS: 4409 Karrol Rd SW PHONE: 877-4841

OWNER: RAMADA LIMITED CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER 5019

PRE-DESIGN MEETING:

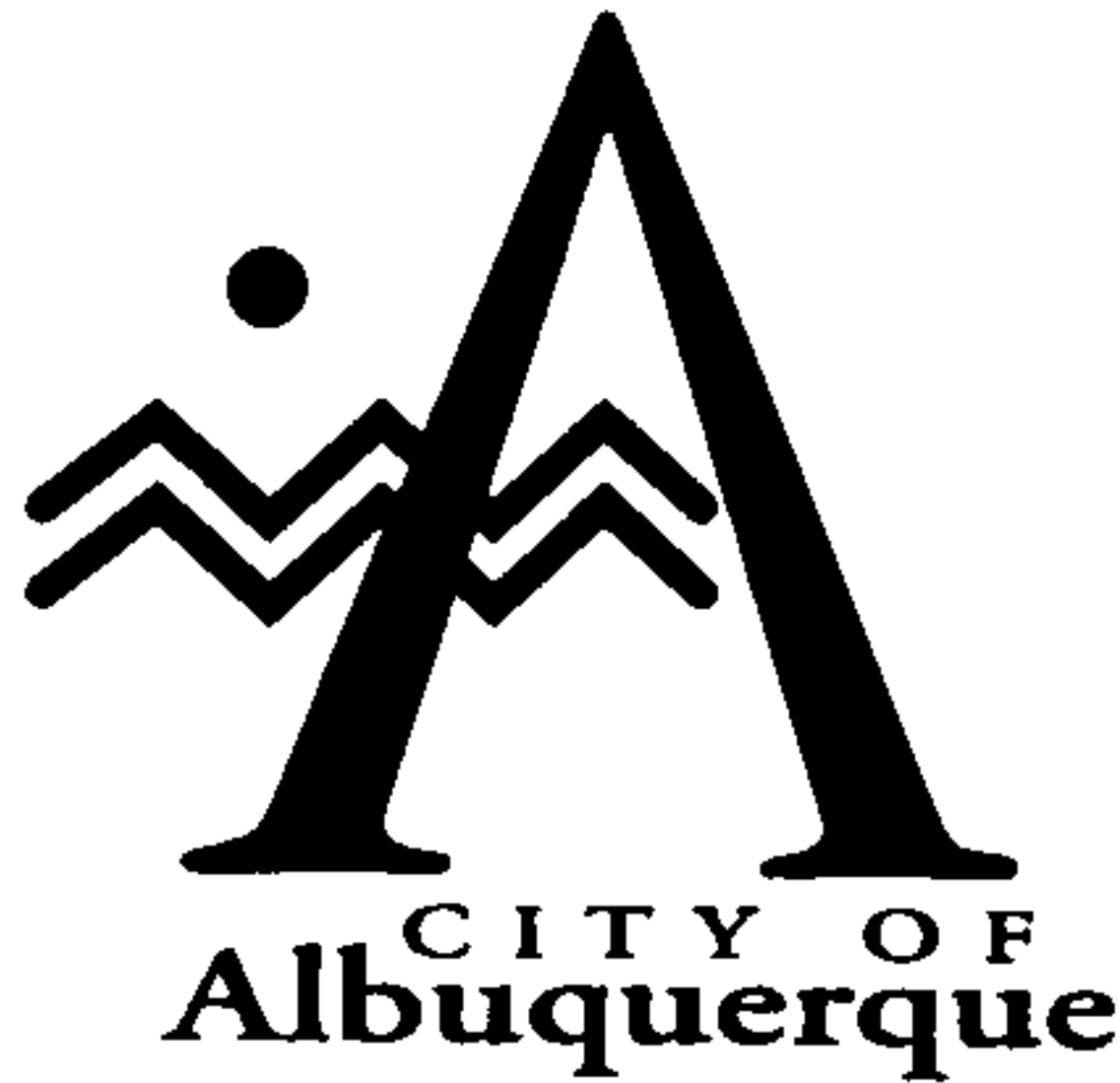
- ☒ YES
- ☒ NO
- ☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ SUBDIVISION CERTIFICATION
- ☒ OTHER 5019 (SPECIFY)

DATE SUBMITTED: 3/20/2001

BY: Bj Martyn



November 19, 1996

Martin J. Chávez, Mayor

Jake Bordenave
Bordenave Designs
P.O. Box 91194
Albuquerque, NM 87199

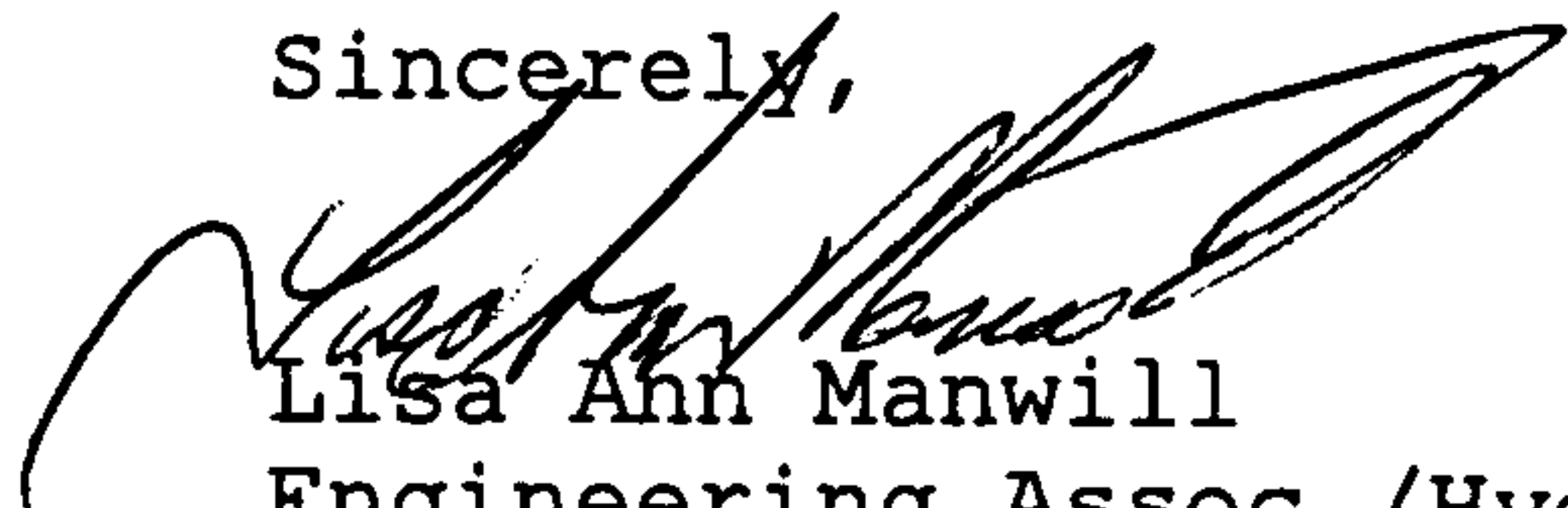
**RE: RAMADA LIMITED (C18-D33). UPDATE DRAINAGE PLAN. ENGINEER'S
STAMP DATED 11-6-96.**

Dear Mr. Bordenave:

Based on the information provided on your November 14, 1996
submittal, the above referenced project is accepted to reflect the
new lot line.

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

Sincerely,



Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

Good for You, Albuquerque!



DRAINAGE INFORMATION SHEET

PROJECT DATA:

TITLE: RAMADA LIMITED

DRNG. FILE #: C18/DT ⁰³³

DRB #:

EPC #:

-

WORK ORDER #: -

LEGAL DESCRIPTION: LOT 6A, BLOCK 11, TRACT A, UNIT B, N. ALB. ACRES

CITY ADDRESS: ALAMEDA BLVD. NE

ENGINEERING FIRM: BORDENAVE DESIGNS

CONTACT: J. BORDENAVE

ADDRESS: P.O. BOX 91194, 8710

PHONE: 823-1344

OWNER: MOHAMMED KASSAM

CONTACT: M. KASSAM

ADDRESS: 13215 VELMA CE. NE, 87111

PHONE: 293-2255

ARCHITECT: N/A

CONTACT:

ADDRESS:

PHONE:

SURVEYOR: E.M. DOAK

CONTACT: M. DOAK

ADDRESS: 637 SOLAR NW

PHONE: 344-4492

CONTRACTOR: N/A

CONTACT:

ADDRESS:

PHONE:

TYPE OF SUBMITTAL:

☒ CONCEPT GRADING & DRAINAGE PLAN

☐ GRADING PLAN

☐ DRAINAGE PLAN

☐ DRAINAGE REPORT

☐ EROSION CONTROL PLAN

☒ ENGINEER'S CERTIFICATION

☒ OTHER: *updated drainage plan*

PRE-DESIGN MEETING:

☐ YES

☐ NO

☐ COPY OF MINUTES PROVIDED ☐ ☐ ☐

DATE SUBMITTED: 11/11/96

BY: *[Signature]*

TYPE OF APPROVAL SOUGHT:

☐ SECTOR PLAN

☒ SKETCH PLAT

☒ PRELIMINARY PLAT

☒ FINAL PLAT

☐ SITE DEV. PLAN FOR SUBD.

☐ SITE DEV. PLAN FOR PERMIT

☐ GRADING PERMIT

☐ PAVING PERMIT

☐ FOUNDATION PERMIT

☐ BUILDING PERMIT

☐ CERTIFICATE OF OCCUPANCY

☐ S.A.D. DRAINAGE REPORT

☐ DRAINAGE REQUIREMENTS

☒ OTHER: INFORMATION

NOV 14

B Bordenave Designs

January 7, 1995

City of Albuquerque
Public Works Department/Hydrology
P.O. Box 1293
Albuquerque, NM 87103

Attn: Ms. Susan M. Calongne, P.E.
Re: C18/D7

Dear Ms. Calongne

The following is a response to your comments dated January 5, 1995.
The responses are in the same order as the comments.

1. The 10/14/83 FEMA floodplain limits have been added to the grading plan.
2. The water depth is slightly less than 18". The pond has been widened by one foot to reduce the depth from the value of 1.51 shown in the pond routing calculations.
3. The pond is to be grassed and a note indicating the grass has been added to the plan.
4. The 100 year water surface has been added to the plan. the footing is approximately 20 feet from the water surface.
5. The architectural plans indicate gutters with downspouts that exit to the parking lot under the sidewalk. The downspout locations have been added to the plan.
6. Additional elevations have been added to the plan. Water is directed by elevation differences to the pond.
7. It certainly would be preferable to connect the pond directly to the public storm drain system and this was studied in some detail. The problem is that the catch basin is too far to the west. To connect to the catch basin will require at least two bends within the street right-of-way. For maintenance reasons this is a strong negative and is the primary reason the idea was rejected. The pipe was

P.O. Box 91194
Albuquerque, NM 87199-1194
(505) 823-1344

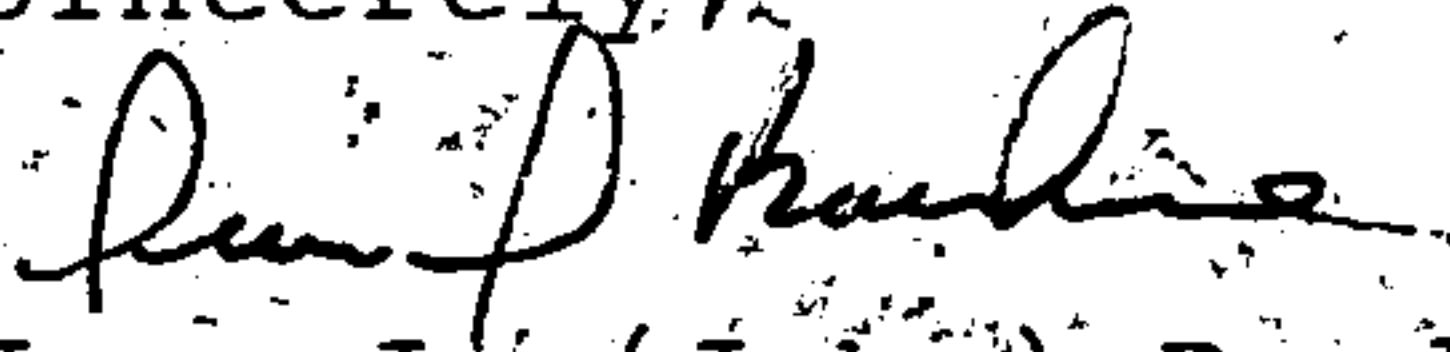
Jan. 7, 1995
Susan M. Calongne
C18/D7
Page 2

sized based on the maximum discharge of existing peak runoff rate. This is due to the storm drain in Alameda Blvd. being sized to carry natural runoff rates.

8. The City Project Number (5086.90) has been added to the plan.
9. The missing dimensions have been added to the detail sheet.

Thank you for your prompt review and comments.

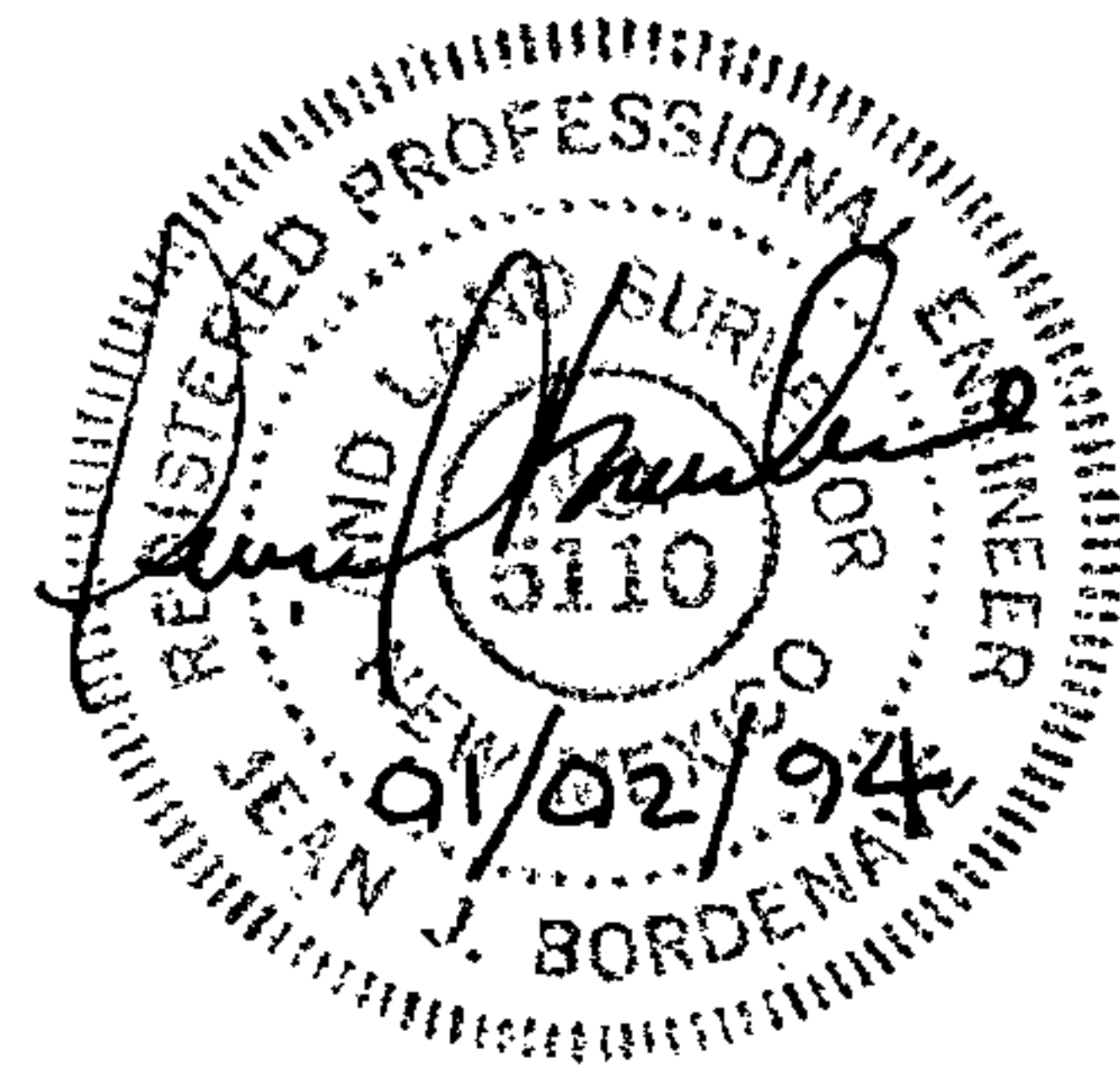
Sincerely,



Jean J. (Jake) Bordenave

DRAINAGE REPORT
FOR
MOTEL-ALAMEDA BLVD @I-25

JANUARY 1995



250-6539

DRAINAGERUNOFF SOURCE -EXISTING

Source	Treatment Type	Area, s.f.
Existing	A	70,970

PROPOSED

Source	Treatment Type	Area, s.f.
Roof	D	21243
Paving & Walks	D	35812
Landscape & Pond	B	<u>21100</u>
		78155

RUNOFF -

(Precipitation Zone 3)

EXISTING

$$\text{Runoff Rate } (78155)(1.87)/43560 = 3.36 \text{ cfs}$$

$$\text{Runoff Volume } (78155)(0.66)/12 = 4299 \text{ cu. ft.}$$

PROPOSED

$$\text{Runoff Rate } ((21243 + 35812)(5.02) + (21100)(2.60))/43560 = 7.83 \text{ cfs}$$

Note this value to be used for emergency spillway.
Actual discharge is mitigated by detention pond.
See next page.

$$\text{Runoff Volume } ((21243 + 35812)(2.36) + (21100)(0.92))/12 = 12838 \text{ cu. ft.}$$

DRAINAGE

DETENTION POND

POND VOLUME VS DEPTH

Assume rectangular pond w/ 3:1 side slopes 103' x 22'

$$P \frac{Z}{p8t6 + (9852)(2)} = \Delta$$

use 121 25n

$$p = \left(\frac{789}{\lambda} + 3.6662 \right)^{0.5} - 3.6662 \quad \text{①} = (C)(T_r)^2 \sqrt{254}$$

$$(6)(11)(9) \sqrt{13.2} \times 1.083$$

POND OUTLET

peak discharge = historic flow rate
(471) $\phi = 3.933$

$$\sqrt{49} = 7$$

where $Q = 3.36 \text{ cfs}$, $C = 0.6$, $h = 1.5 - 0.4167$

Therefore $r = 0.4620 \text{ ft}$

ROUTING

Time	min.	Rainfall	in.	B Runoff	in.	D Runoff	in.	Inflow	cu. ft.	Depth	ft.	Ave Depth	ft.	Outflow	cu. ft.	Storage	cu. ft.
0		0.0223	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.040	3	289	16	856	1301
20		0.0289	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.289	28	59	112	1902	2811
40		0.0423	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.421	59	233	304	359	451
60		0.1254	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.834	233	385	391	6530	6546
70		0.1008	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.093	359	391	391	6518	6518
74		0.1327	0.0198	0.1314	0.1677	0.1273	0.1689	0.2151	0.1959	0.2376	0.2568	1.1476	385	391	391	6518	6518
76		0.1273	0.1273	0.1314	0.1677	0.2093	0.2555	0.2555	0.2555	0.2555	0.2555	1.231	391	391	391	6518	6518
78		0.1008	0.1008	0.1008	0.1008	0.1008	0.1008	0.1008	0.1008	0.1008	0.1008	1.458	391	391	391	6518	6518
80		0.0994	0.0994	0.0994	0.0994	0.0994	0.0994	0.0994	0.0994	0.0994	0.0994	1.512	391	391	391	6518	6518
82		0.0840	0.0840	0.0840	0.0840	0.0840	0.0840	0.0840	0.0840	0.0840	0.0840	1.512	391	391	391	6518	6518
84		0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	1.512	391	391	391	6518	6518
86		0.0542	0.0542	0.0542	0.0542	0.0542	0.0542	0.0542	0.0542	0.0542	0.0542	1.512	391	391	391	6518	6518
90		0.0509	0.0509	0.0509	0.0509	0.0509	0.0509	0.0509	0.0509	0.0509	0.0509	1.512	391	391	391	6518	6518
92		0.0479	0.0479	0.0479	0.0479	0.0479	0.0479	0.0479	0.0479	0.0479	0.0479	1.512	391	391	391	6518	6518
94		0.0427	0.0427	0.0427	0.0427	0.0427	0.0427	0.0427	0.0427	0.0427	0.0427	1.512	391	391	391	6518	6518
96		0.0210	0.0210	0.0210	0.0210	0.0210	0.0210	0.0210	0.0210	0.0210	0.0210	1.512	391	391	391	6518	6518
98		0.0164	0.0164	0.0164	0.0164	0.0164	0.0164	0.0164	0.0164	0.0164	0.0164	1.512	391	391	391	6518	6518
100		0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	1.512	391	391	391	6518	6518
102		0.0092	0.0092	0.0092	0.0092	0.0092	0.0092	0.0092	0.0092	0.0092	0.0092	1.512	391	391	391	6518	6518
104		0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	1.512	391	391	391	6518	6518

$\frac{7}{2} \times \frac{3}{6}$

BORDENAVE DESIGNS	MOTEL SITE ALAMEDA @ I-25	9433	3 / 3
		JJB	10/19/9

DRAINAGE

DETENTION POND (cont)

EMERGENCY SPILLWAY

broad crested weir

$$Q = CLH^{3/2}$$

where $Q = 7.83$ cfs, $C = 2.8$, $H = 0.45$ ft

therefore $L = 9.26$ ft use 10 ft.

OUTLET CHANNEL

$$Q = \frac{1.486}{n} AR^{2/3} S^{1/2}$$

where $Q = 7.83$ cfs, $n = 0.015$, $S = 0.035\%$

if $b = 5$ ft

then depth = 0.23 ft

velocity = 6.7 fps, energy depth = 0.92 ft

if $b = 3.6$ ft

then depth = 0.33 ft

velocity = 6.6 fps, energy depth = 1.01 ft.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 8, 1995

Jake Bordenave
Bordenave Designs
P.O. Box 91194
Albuquerque, NM 87199

RE: ENGINEER CERTIFICATION FOR RAMADA INN LIMITED @
5601 ALAMEDA BLVD. NE (C18-D7) CERTIFICATION STATEMENT
DATED 12/1/95. 33

Dear Mr. Bordenave:

Based on the information provided on your December 6, 1995
submittal, Engineer Certification for the above referenced site
is acceptable.

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

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: MOTEL - ALAMEDA / I-25 ZONE ATLAS/DRNG. FILE #: C-18 / 47

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

LEGAL DESCRIPTION: Lot 6A, Block 11, Tract A, Unit B, N. 41b Acres

CITY ADDRESS: Alameda Blvd NE

ENGINEERING FIRM: Bordenave Designs CONTACT: J. Bordenave

ADDRESS: P.O. Box 91194, 87199 PHONE: 823-1344

OWNER: Mohammed Kassam CONTACT: M. Kassam

ADDRESS: 13215 Valma Ct NE, 87111 PHONE: 293-2255

ARCHITECT: Miles Britellas CONTACT: M. Britella

ADDRESS: 1195 Big Rock Loop, White Rock NM PHONE: _____

SURVEYOR: E. M. Doak CONTACT: M. Doak

ADDRESS: 137 San Fidal NW 87107 PHONE: 344-4492

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

____ DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

☒ ENGINEER'S CERTIFICATION

____ OTHER _____

PRE-DESIGN MEETING:

____ YES

____ NO

____ COPY PROVIDED

DEC 4 1995

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL

____ 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 APPROVAL

____ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 12/6/95

BY: [Signature]

DEC 6 1995

DEC 9 1995

Mr. Bernie Montoya
Hydrology Department
City of Albuquerque
Albuquerque, NM 87106

October 6, 1995

Dear Mr. Montoya:

RE: Temporary Certificate of Occupancy for Ramada Inn Limited located at 5601 Alameda.

Due to the heavy rainfall two weeks ago, we were unable to pave the parking lots and finish all drainage improvements on the above referenced project.

Although we have completed over 98% of the site work, we still have a few "loose ends" to take care. We have completed most of the As-builts and will be submitting a Certified Drainage Plan by October 19, 1995.

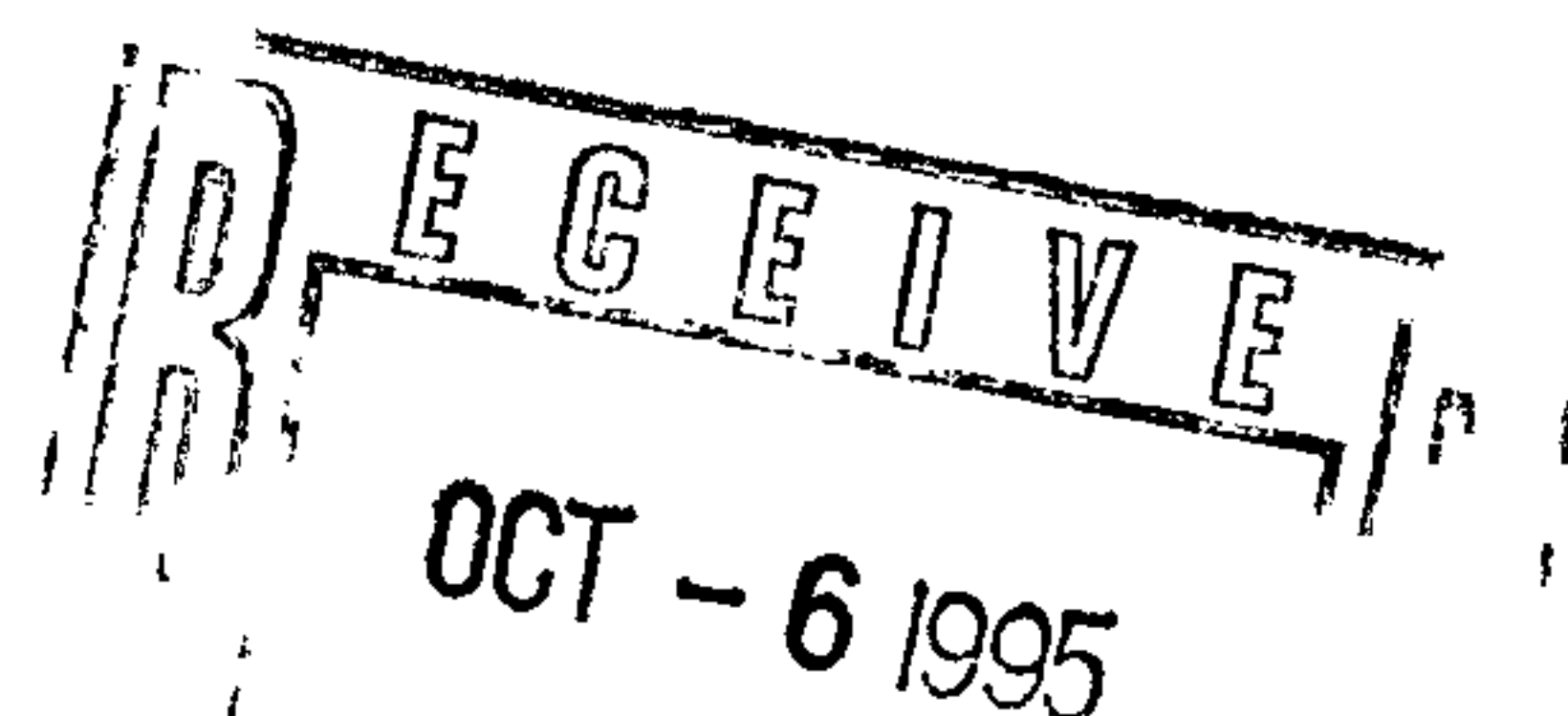
I would very much appreciate, if you could give us a two week temporary certificate of occupancy, so that we are able to open the motel today.

If you have any questions, please call me at (505) 294-3297.

Sincerely,



Mohammed Kassam
President - Alameda Days Inn, Inc
5601 Alameda NE
Albuquerque
New Mexico 87113



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Alameda Days Inn In ZONE ATLAS/DRNG. FILE #: C18 / 107
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: _____

CITY ADDRESS: 5601 Alameda NE

ENGINEERING FIRM: ADIL RIZVI CONTACT: _____

ADDRESS: 7049 Luella Anne NE, NM 87109 PHONE: _____

OWNER: Mohammed Kasam CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER _____

PRE-DESIGN MEETING:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

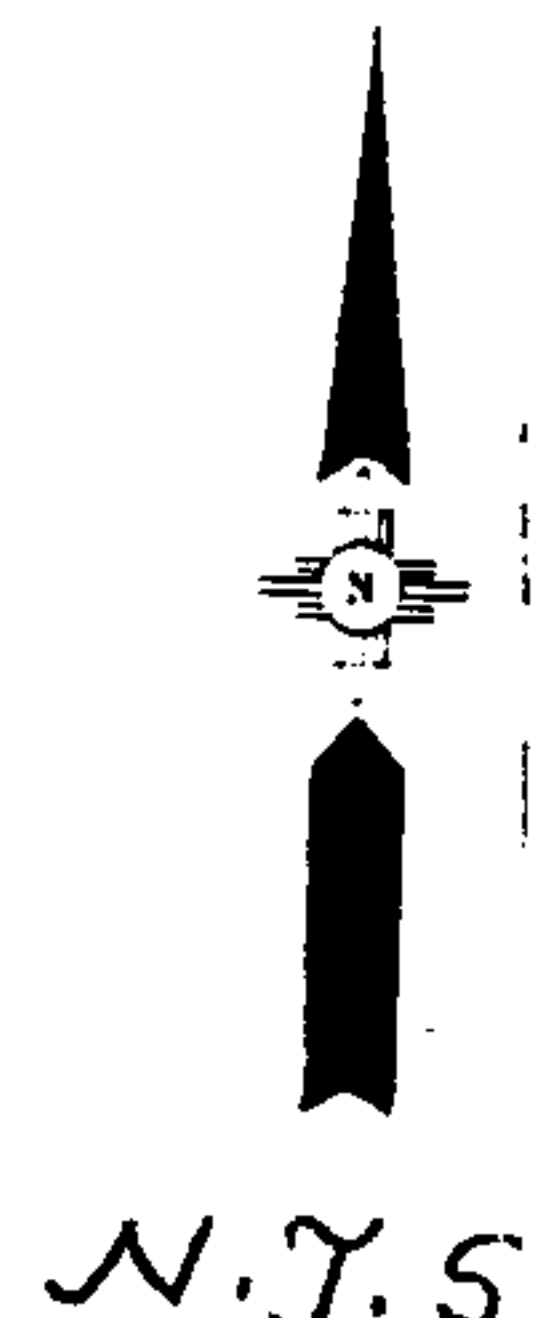
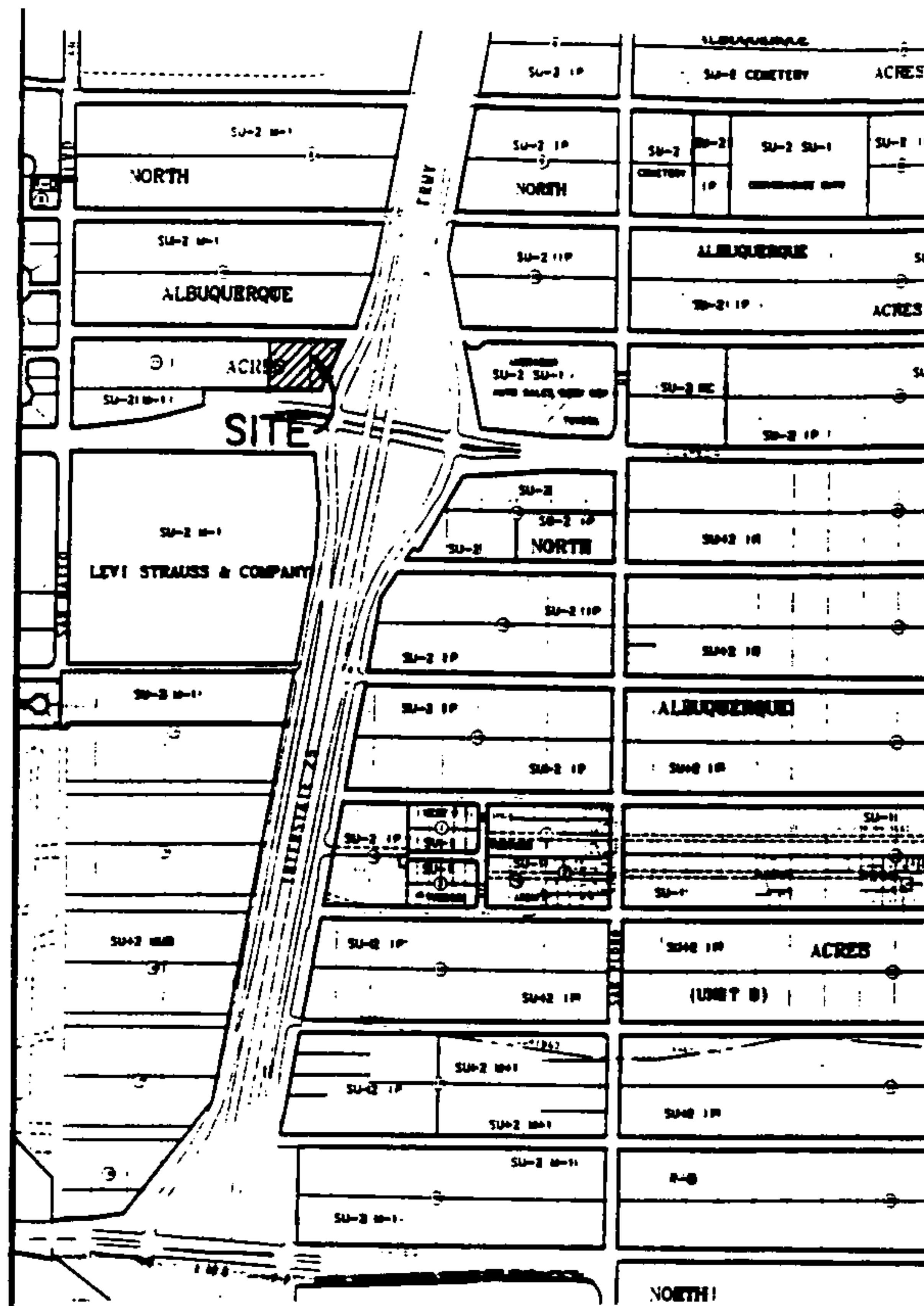
- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
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- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ SUBDIVISION CERTIFICATION
- ☒ OTHER SO-19 (SPECIFY)

DATE SUBMITTED: _____

BY: Adil Rizvi ADIL RIZVI

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



LOCATION MAP

C-18

LEGAL DESCRIPTION OF PROPERTY SERVED: Lot 6A, Block II, Tract A, Unit B,
North Albuquerque Acres

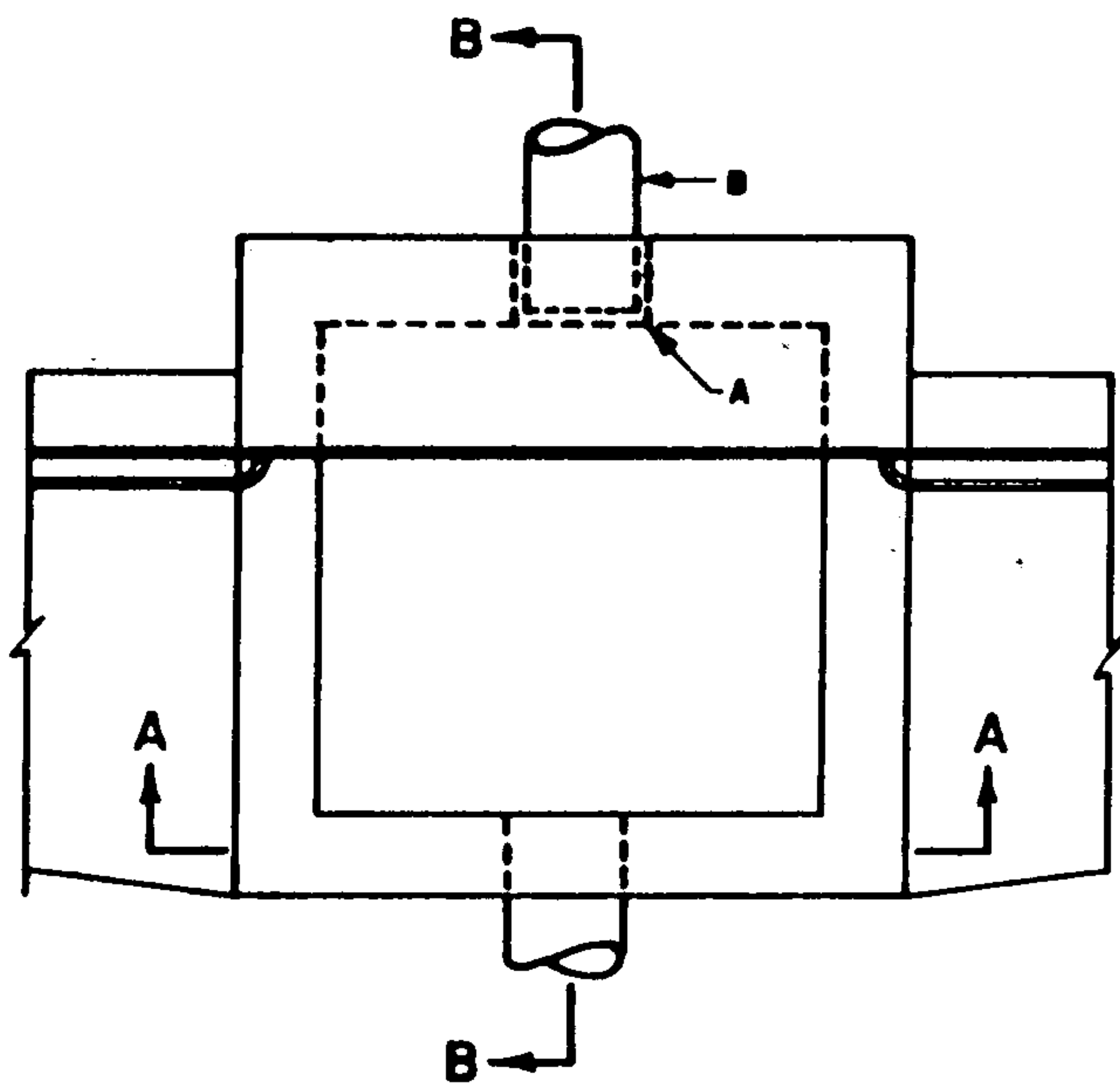
BENCH MARK: ACS No. 9-C18. Elevation 5229.79.

NOTICE TO CONTRACTOR

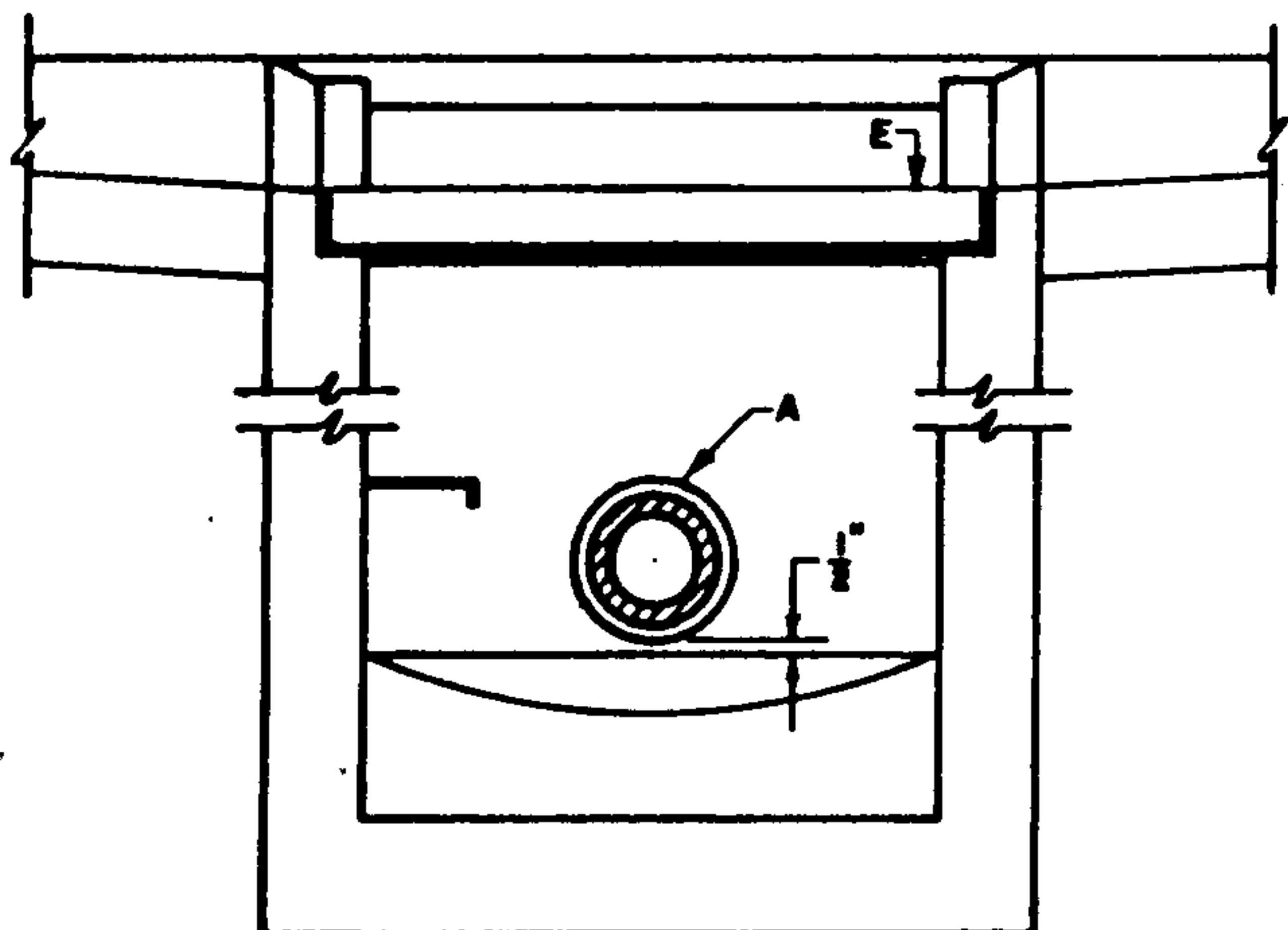
1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Interim Standard Specifications for Public Works Construction, 1985.
3. Two working days prior to any excavation, contractor must contract Line Locating Service, 260-1990 for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all constructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum of delay.
5. Backfill compaction shall be according to _____ street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.

APPROVALS	NAME	DATE	TITLE:	
HYDROLOGY	<i>Bernie Montoya</i>	9/26/95	PERMIT NO. _____ MAP NO. _____ SHEET _____ OF _____	
INSPECTOR	<i>Henry G.</i>	9/28/95		
A.C.E./FIELD				

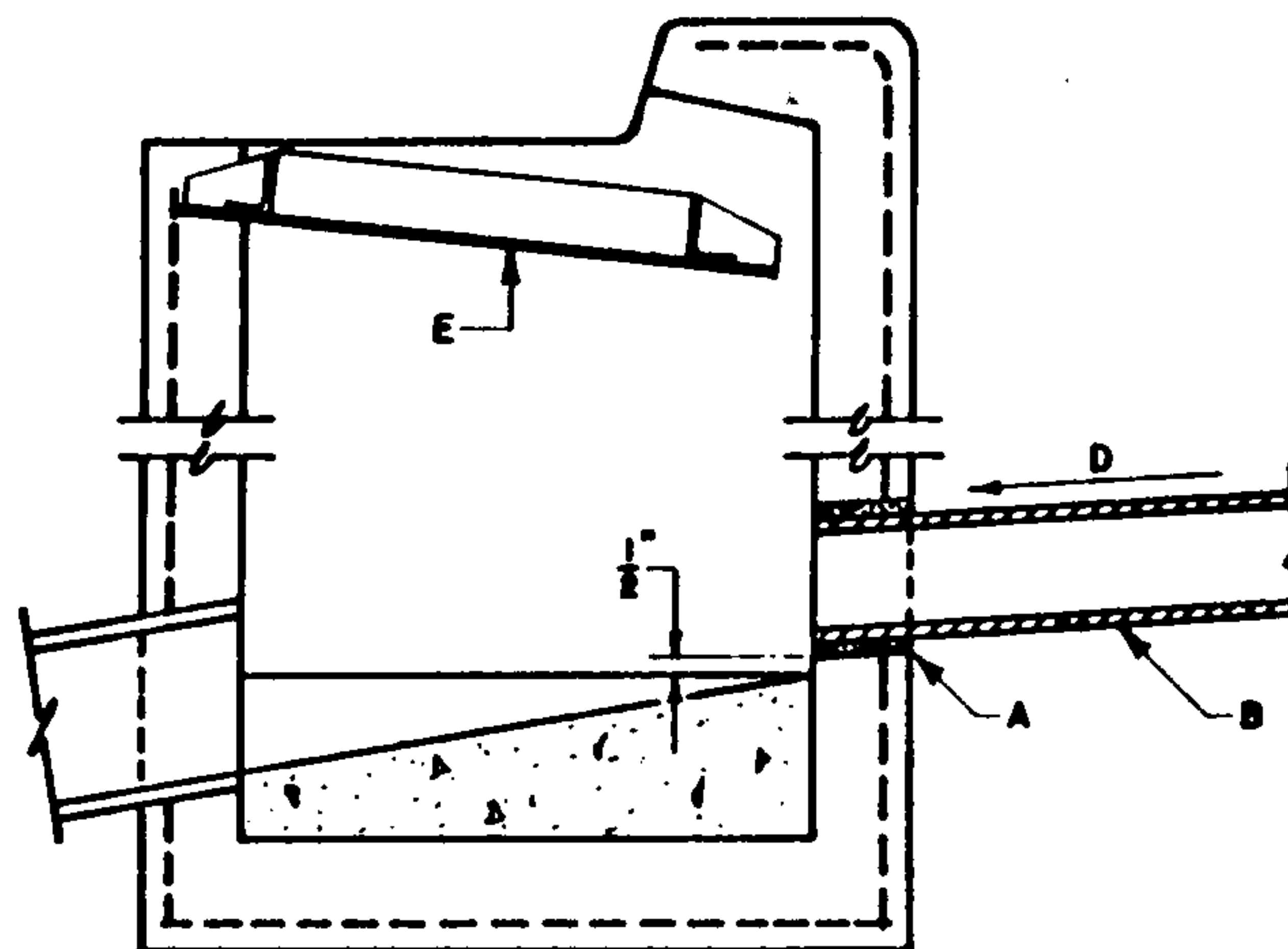
Sundance Mech
97002



PLAN



SECTION A-A



SECTION B-B

GENERAL NOTES:

1. THE CITY DOES NOT ACCEPT RESPONSIBILITY FOR MAINTENANCE FOR ANY DRAIN LINES INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.
2. FOR DOUBLE "C" OR "D" STORM INLETS THE PRIVATE DRAIN LINE CONNECTION MUST BE ALIGNED WITH THE LONGITUDINAL CENTER OF EITHER GRATE FRAME.

CONSTRUCTION NOTES:

- A. CORE DRILL INTO BACK OF EXIST. CATCH BASIN WITH INVERT OF DRILLED OPENING 2" ABOVE EXIST. CONC. FILL. GROUT WITH NONSHRINK, NONMETALLIC GROUT.
- B. NEW DRAIN LINE TO BE SCH. 40 P.V.C., REIN. CONC. OR DUCTILE IRON PIPE. DRAIN SIZE TO BE AT LEAST ONE SIZE SMALLER THAN OUTLET PIPE WITH A MAX. SIZE OF 12".
- C. EXIST. CONC. FILL.
- D. SLOPE .02 FT. PER FT. MIN. WITHIN R.O.W.
- E. FRAME & GRATE.

CITY OF ALBUQUERQUE	
DRAINAGE	
DRAIN LINE CONNECTION	
TO EXIST. STORM INLET	
DWG. 2237	
AUG. 1986.	
REVISIONS	



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 26, 1995

Adil Rizvi
7049 Luella Anne NE
Albuquerque, NM 87109

RE: S.O. 19 SUBMITTAL @ ALAMEDA INN @ 5601 ALAMEDA NE (C18-D7)
ENGINEER'S STAMP DATED 9/25/95. 3}

Dear Mr. Rizvi:

Based on the information provided on your September 25, 1995
submittal, the above referenced site is approved for S.O. 19.

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

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

Sincerely,

Bernie J. Montoya

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Motel - Alameda c I-25 ZONE ATLAS/DRNG. FILE #: C-18/107

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

LEGAL DESCRIPTION: Lot 6A, Block 11, Tract A, Unit B, N. Alb. Acres

CITY ADDRESS: Alameda Blvd NE

ENGINEERING FIRM: Bordenava Designs CONTACT: J. Bordenava

ADDRESS: P.O. Box 91194 87199 PHONE: 823-1344

OWNER: Mohammed Kassam CONTACT: _____

ADDRESS: 13215 Valme Ct NE 87111 PHONE: 293-2255

ARCHITECT: Miles Brittelle CONTACT: M. Brittelle

ADDRESS: 1195 Big Rock Loop PHONE: _____

SURVEYOR: E. M. Doak CONTACT: M. Doak

ADDRESS: 620 El Paraiso NW 87107 PHONE: 344-4492

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

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

PRE-DESIGN MEETING:

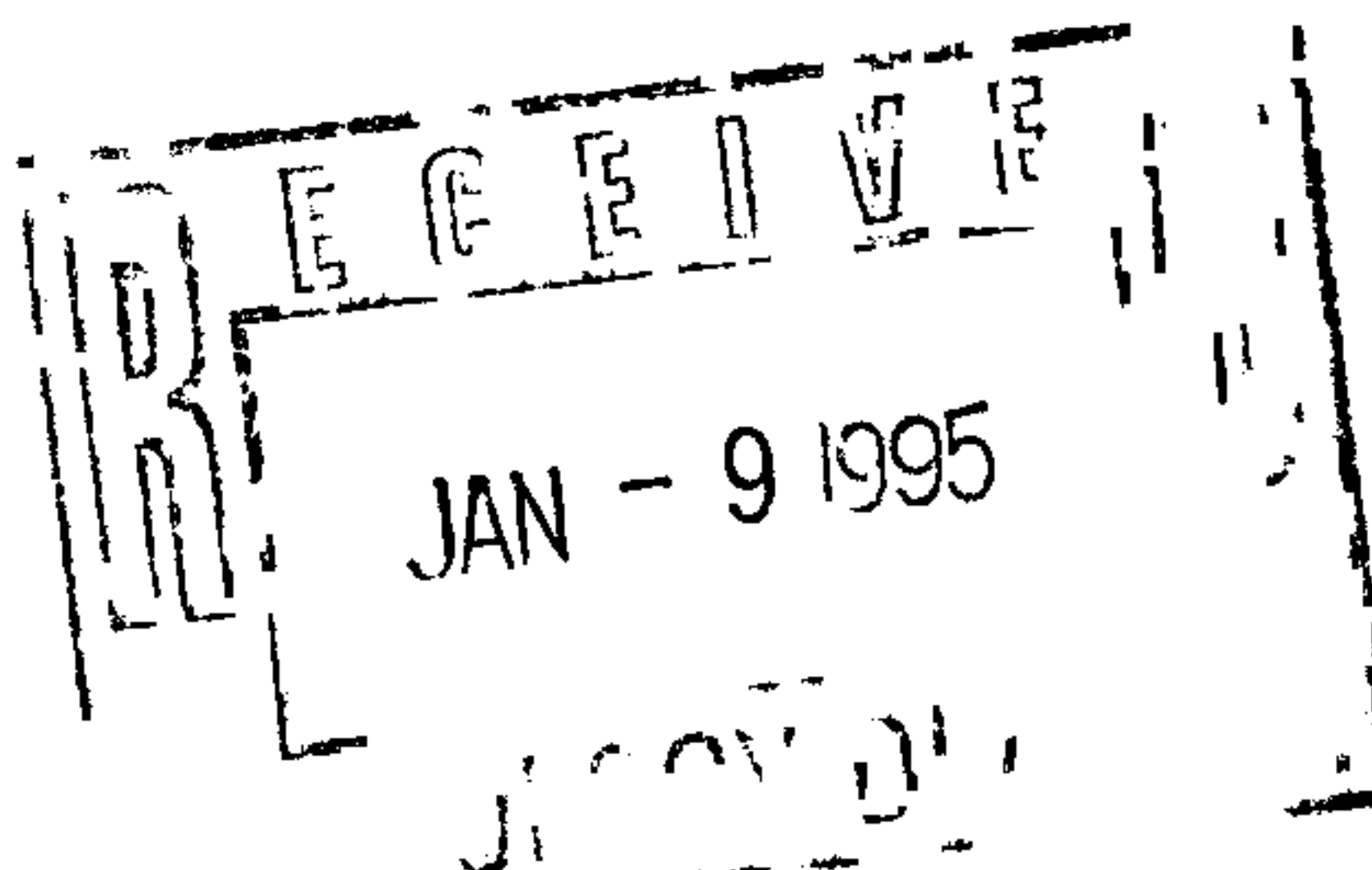
- ☒ YES
- ☐ NO
- ☒ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

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

DATE SUBMITTED: 01/09/94

BY: JP Bordenava





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 12, 1995

Jake Bordenave, P.E.
Bordenave Designs
P. O. Box 91194
Albuquerque, New Mexico 87199

RE: DRAINAGE REPORT FOR MOTEL BUILDING AT ALAMEDA & I-25 (C18/D7),
SUBMITTED FOR SITE DEVELOPMENT AND BUILDING PERMIT APPROVAL,
ENGINEER'S STAMP DATED 1/7/95.

Dear Mr. Bordenave:

Based on the information provided with the above referenced submittal of January 9, 1995, the drainage plan is approved for Building Permit release.

As you are aware, the Federal Emergency Management Agency (FEMA) currently recognizes that there is an existing 100-year floodplain through this site. Recently, however, FEMA funded a restudy of the flood hazard areas in the vicinity of this site. After meeting with the Engineer who conducted this study, it appears that the existing floodplain through this site was removed as a result of the construction of the ramps for the I-25/Alameda Interchange.

The subject restudy was submitted to FEMA for review in December 1993, but it has not yet been approved and a Letter of Map Revision (LOMR) for the removal of this floodplain has not been acquired. It is anticipated that FEMA will approve the study and issue the LOMR by the end of 1995, therefore the building permit may be released for this site. Please be advised that if FEMA does not approve the restudy, then this property will remain in a floodplain and the owner will be subject to the flood insurance requirements established by the National Flood Insurance Program.

Prior to release of the Certificate of Occupancy, the Engineer's Certification per the D.P.M. checklist will be required.

If you have any questions, please do not hesitate to call me at 768-2650.

Sincerely,


Susan M. Calongne, P.E.

City/County Floodplain Administrator

c: Andrew Garcia, City Hydrology
Mohammad Kassam, Owner
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 5, 1995

Jake Bordenave, P.E.
Bordenave Designs
P. O. Box 91194
Albuquerque, New Mexico 87199

RE: DRAINAGE REPORT FOR MOTEL BUILDING AT ALAMEDA & I-25 (C18/D7),
SUBMITTED FOR SITE DEVELOPMENT AND BUILDING PERMIT APPROVAL,
ENGINEER'S STAMP DATED 1/2/95.

Dear Mr. Bordenave:

Prior to approval of the above referenced submittal, please address the following comments:

1. Show the limits of the existing 100-year FEMA floodplain on the grading and drainage plan, Sheet C1.
2. If the pond depth is 18" or more, then fencing is required.
3. What type of landscaping is proposed in the pond area?
4. Indicate the 100-year water surface elevation in the pond. If the 100-year water surface elevation is within 15' of the proposed building footings, then footing protection must be incorporated.
5. What type of gutter system is proposed for the roof runoff? It is recommended that they be under the proposed sidewalk.
6. Please provide more detail on the pond inlet and outlet overflow on the south end of the pond. Will the runoff from the parking lot run down the emergency spillway instead of entering the pond?
7. It is recommended that the proposed 10" PVC outlet pipe be connected directly to the back of the existing catch basin in Alameda. A maximum 12" diameter pipe is allowed. This could increase your discharge rate and lower the ponding size requirements, as well as the depth.
8. Provide the Work Order Number for the Oakland Avenue paving.
9. Please provide all dimensions on the details on Sheet C2.

If you should have any questions regarding these comments, please call me.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Motel - Alameda c.I-25 ZONE ATLAS/DRNG. FILE #: C-18/27

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

LEGAL DESCRIPTION: Lot 6A, Block 11, Tract A, Unit B, N. Alb. Acres

CITY ADDRESS: Alameda Blvd NE

ENGINEERING FIRM: Bordenava Designs CONTACT: J. Bordenava

ADDRESS: P.O. Box 91194 87199 PHONE: 823-1344

OWNER: Mohammed Kassam CONTACT: _____

ADDRESS: 13215 Valme Ct NE 87111 PHONE: 293-2255

ARCHITECT: Miles Brittelle CONTACT: M. Brittelle

ADDRESS: 1195 Big Rock Loop PHONE: _____

SURVEYOR: E. M. Doak CONTACT: M. Doak

ADDRESS: 620 El Paraiso NW 87107 PHONE: 344-4492

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PRE-DESIGN MEETING:

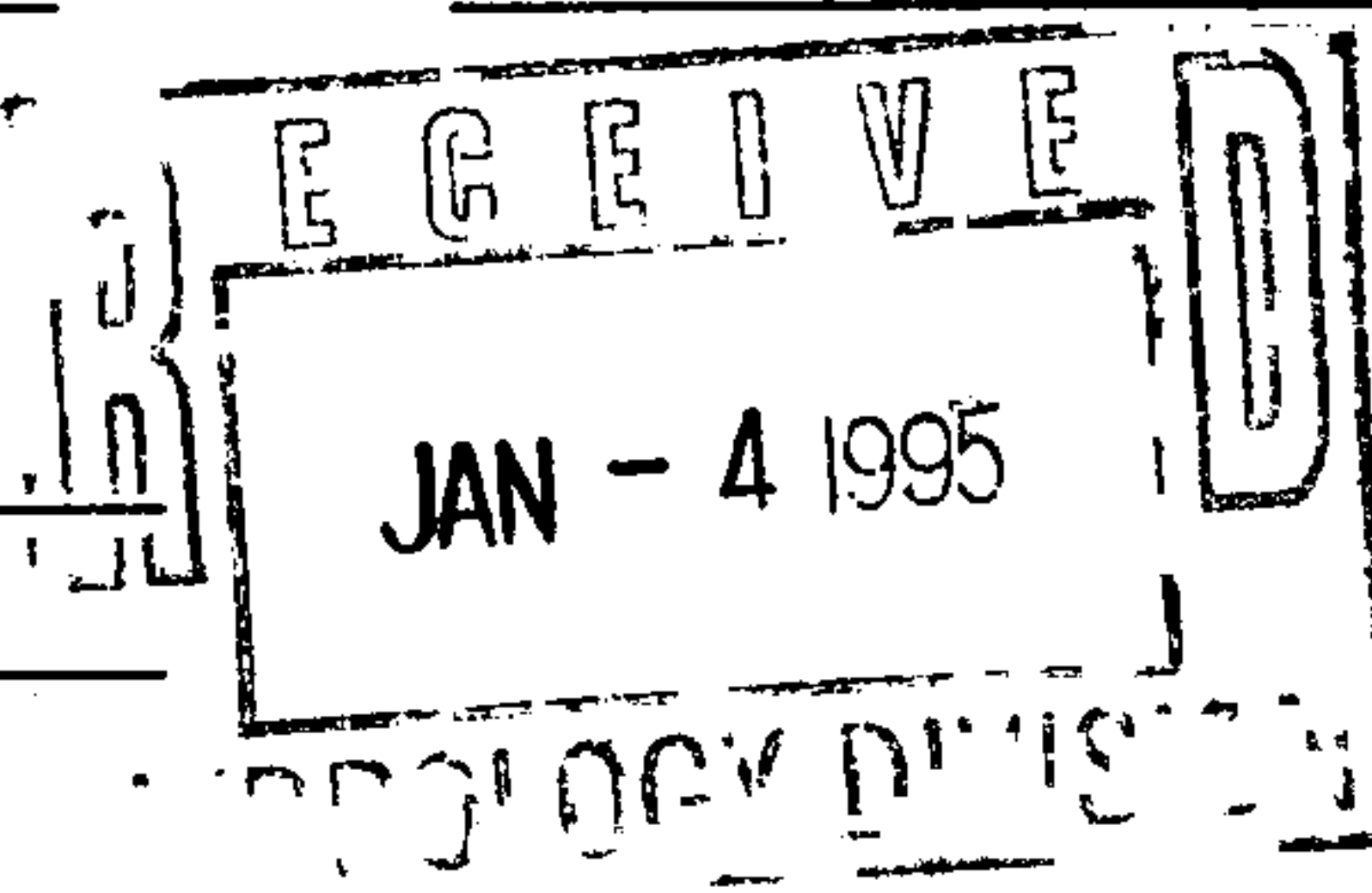
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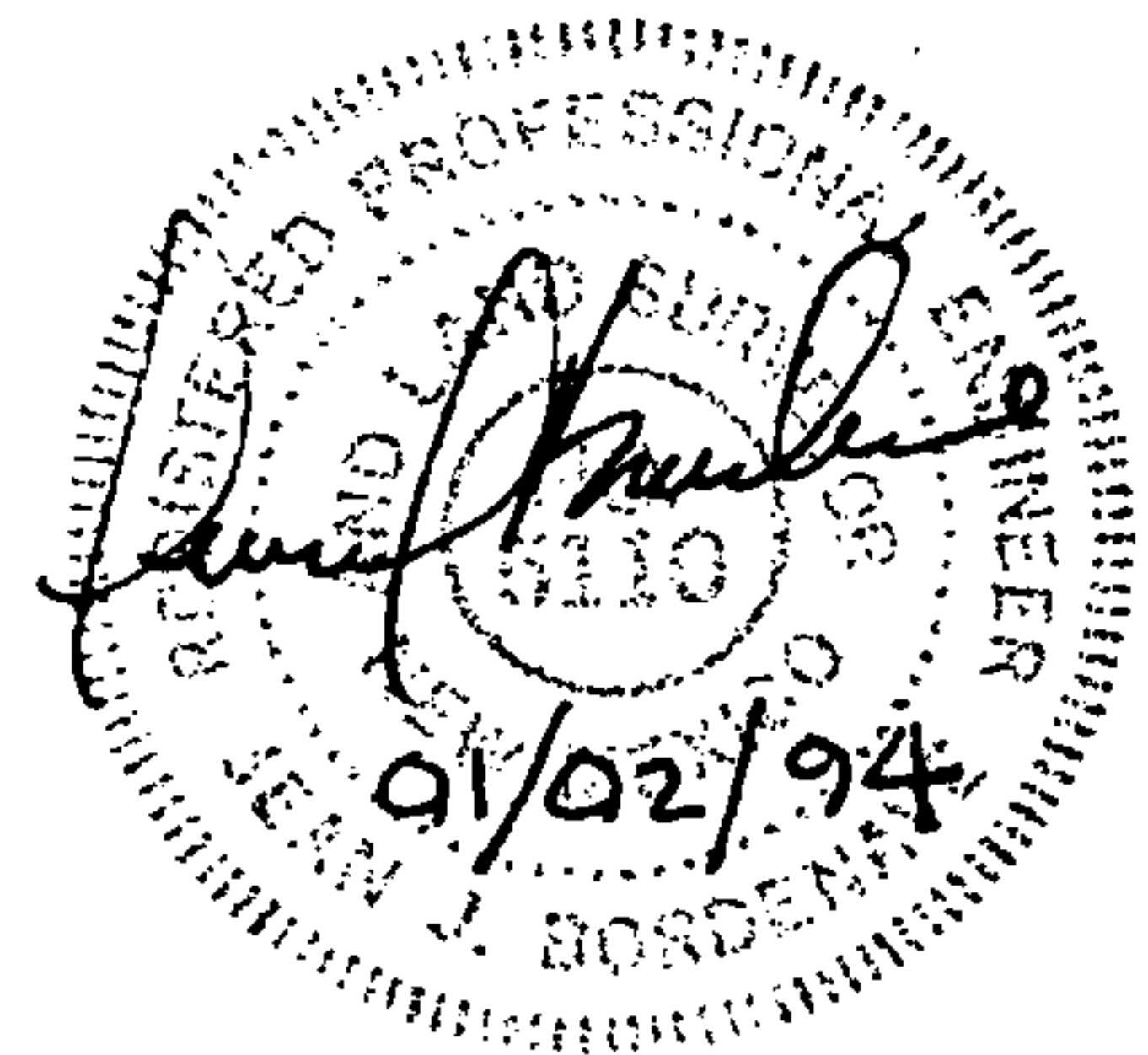
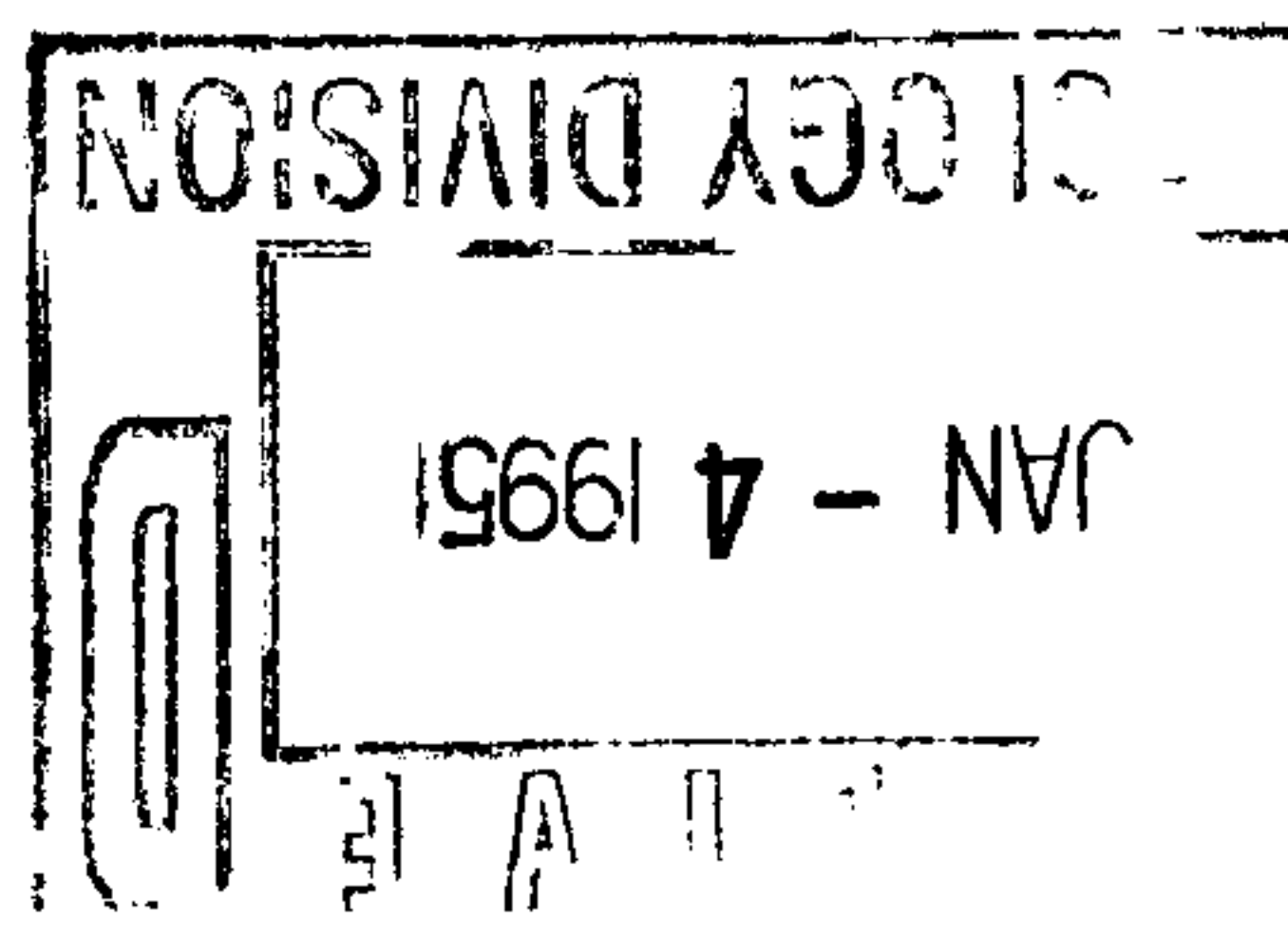
DATE SUBMITTED: 01/04/94

BY: JP Bordenava



DRAINAGE REPORT
FOR
MOTEL-ALAMEDA BLVD @I-25

JANUARY 1995



DRAINAGERUNOFF SOURCE -EXISTING

Source	Treatment Type	Area, s.f.
Existing	A	70,970

PROPOSED

Source	Treatment Type	Area, s.f.
Roof	D	21243
Paving & Walks	D	35812
Landscape & Pond	B	<u>21100</u>
		78155

RUNOFF -

(Precipitation Zone 3)

EXISTING

$$\text{Runoff Rate } (78155)(1.87)/43560 = 3.36 \text{ cfs}$$

$$\text{Runoff Volume } (78155)(0.66)/12 = 4299 \text{ cu. ft.}$$

PROPOSED

$$\text{Runoff Rate } ((21243 + 35812)(5.02) + (21100)(2.60))/43560 = 7.83 \text{ cfs}$$

Note this value to be used for emergency spillway.
Actual discharge is mitigated by detention pond.
See next page.

$$\text{Runoff Volume } ((21243 + 35812)(2.36) + (21100)(0.92))/12 = 12838 \text{ cu. ft.}$$

JAN - 4 1995

HYDROLOGY DIV.

DRAINAGEDETENTION PONDPOND VOLUME VS DEPTH

Assume rectangular pond w/ 3:1 sideslopes 163' x 22'

$$V = \frac{(2)(3586) + 978d}{2} d$$

$$d = \left(\frac{V}{489} + 3.6666^2 \right)^{0.5} - 3.6666$$

POND OUTLET

peak discharge = historic flow rate

$$Q = C a \sqrt{2gh}$$

where $Q = 3.36$ cfs, $C = 0.6$, $h = 1.5 - 0.4167$

therefore $r = 0.4620$ ft use 10" PVC PIPE w/ SHAPED INLET
 $Q = 3.1779 \sqrt{d - 0.4583}$

ROUTING

Time	Rainfall	B Runoff	D Runoff	Inflow	Depth	Ave Depth	Outflow	Storage	
min.	in.	in.	in.	cu.ft.	ft.	ft.	cu.ft.	cu.ft.	
0		0.	0.						
20	0.0223	0.	0.						
40	0.0289	0.	0.						
60	0.0423	0.	0.		0.	0.040	3	289	
70	0.0681	0.	0.0616	292	0.081	0.156	16	856	
74	0.1254	0.	0.1227	583	0.232	0.289	28	1301	
76	0.1008	0.	0.0995	473	0.346	0.421	59	1902	
78	0.1327	0.0198	0.1314	660	0.497	0.606	112	2811	
80	0.1690	0.1273	0.1677	1021	0.714	0.834	233	3870	
82	0.2106	0.1689	0.2093	1292	0.955	1.093	304	5159	518
84	0.2568	0.2151	0.2555	1593	1.231	1.344	359	6268	628
86	0.2376	0.1959	0.2364	1468	1.458	1.476	383	6451	64
88	0.0994	0.0577	0.0981	568	1.494	1.502	389	6530	65
90	0.0840	0.0423	0.0827	468	1.510	1.511	391	6546	65
92	0.0747	0.0330	0.0734	407	1.512	1.510	391	6518	
94	0.0679	0.0262	0.0666	363	1.508				
96	0.0627	0.0210	0.0614	329					
98	0.0581	0.0164	0.0568	299					
100	0.0542	0.0125	0.0529	273					
102	0.0509	0.0092	0.0496	252					
104	0.0479	0.0062	0.0466	232					

JAN - 4 1995

DRAINAGE

DETENTION POND (cont):EMERGENCY SPILLWAY

broad crested weir

$$Q = CLH^{3/2}$$

where $Q = 7.83$ cfs, $C = 2.8$, $H = 0.45$ fttherefore $L = 9.26$ ft use 10 ft.OUTLET CHANNEL

$$Q = \frac{1.486}{n} AR^{2/3} S^{1/2}$$

where $Q = 7.83$ cfs, $n = 0.015$, $S = 0.035\%$ if $b = 5$ ft

then depth = 0.23 ft

velocity = 6.7 fps, energy depth = 0.92 ft

if $b = 3.6$ ft

then depth = 0.33 ft

velocity = 6.6 fps, energy depth = 1.01 ft.

JAN - 4 1995

TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION

January 5, 1995

=====

PROGRAM INPUT DATA:

DESCRIPTION	VALUE
Flow Rate (cubic feet per second).....	7.8
Channel Bottom Slope (feet per foot).....	0.0350
Manning's Roughness Coefficient (n-value).....	0.0150
Channel Side Slope - Left Side (horizontal/vertical)....	0.00
Channel Side Slope - Right Side (horizontal/vertical)...	0.00
Channel Bottom Width (feet).....	3.6

=====

PROGRAM RESULTS:

DESCRIPTION	VALUE
Normal Depth (feet).....	0.29
Flow Velocity (feet per second).....	7.42
Froude Number (Flow is Super-Critical).....	2.414
Velocity Head (feet).....	0.85
Energy Head (feet).....	1.15
Cross-Sectional Area of Flow (square feet).....	1.06
Top Width of Flow (feet).....	3.60

=====

TRAPEZOIDAL CHANNEL ANALYSIS COMPUTER PROGRAM, Version 1.3 (c) 1986
Dodson & Associates, Inc., 7015 W. Tidwell, #107, Houston, TX 77092
(713) 895-8322. A manual with equations & flow chart is available.