# CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPERTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

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### PRE-DESIGN CONFERENCE RECAP

	<u>H/9</u> DA	TE: 7-10-85
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UBJECT: HOUTEN	OFFICE	Building
EBAL DESCRIP. : Wy	2 Morrow	
APPRO	VAL REQUESTED	
PRELIMINARY PLAT		FINAL PLAT
SITE DEVELOPMENT PLAN		BUILDING PLRMIT
	ROUGH GRADING	
WHO:		REPRESENTING:
TTENDANCE: John Those		
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Conceptual Drainage Plan/Rep		. Duralinianus Blat andiau
Site Development Plan sign-		r Preliminary Plat and/or
Approved Drainage Plan/Repor	t required for	Final Plat and/or Build-
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Subdivision Improvements Agr	eement or Finan	cial security required.
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### DRAINAGE INFORMATION SHEET

PROJECT TITLE: Hooten Office Bldg. zo	ONE ATLAS/DRNG. FILE W: H-19/1314
LECAL DESCRIPTION: Lots 3, 4, 5 and a pro	tion of 6, Block 26, Inez addition
CITY ADDRESS: 2033 Wyoming Blvd. N.E.	
ENGINEERING FIRM: FMBA	CONTACT: Bob Sheppard
ADDRESS: 5608 Zuni S.E.	PHONE: 268-6783
OWNER: Hooten-Stahl	COMPACT: Bill Hooten
ADDRESS 2051 Wyoming Blvd. N.E.	PHONE: 296-5591
ARCHITECT: FMBA	CONTACT: Joe Almers
ADDRESS: 5608 Zuni S.	PHONE: 268-6783
SURVEYOR: S. R. Jr. Associates	CONTACT: Tom Romero
ADDRESS: 29 8 12th Street N.W. Suite	В_РНОМЕ:_345-2733
CONTRACTOR:	CONTACT:
ADDRESS: DECEMBED	PHONE:
PRE-DESIGN MEETING N SEP 27 1985	
X YES	DRB NO85-390-1
HYDROLOGY SECTION	EPC NO
COPY OF CONFERENCE RECAP SHEET PROVIDED	PREJECT NO. H-19
TYPE OF SUBHITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
X DRAINAGE REPORT	SKETCH PLAT APPROVAL
X DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAIN. PLAN	SITE DEVELOPMENT PLAN APPROVAL
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	CERTIFICATE OF OCCUPANCY APPROVAL
	ROUGH GRADING PERMIT APPROVAL
DATE SUBMITTED:	GRADING/PAVING PERMIT APPROVAL
8Y:	OTHER(SPECIFY)
Rev. 11/84 103	



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**DESIGN HYDROLOGY SECTION** 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

October 1, 1985

Bob Sheppard Hooten-Stahl 2051 Wyoming Blvd. NE Albuquerque, NM 87112

REF: HOOTEN OFFICE BLDG. (H19-D34)

Dear Mr. Sheppard:

A preliminary review of your submittal for building permit approval has shown that the following information is lacking for this section to begin the review process:

#### Information needed:

- 1. Off-site flows quantification and/or location or treatment.
- 2. Approved copy of replat must be in our files before building permit is
- Drainage facilities with City R/W document must be submitted to City Design for approval.

#### Flan Drawing:

- 1. Vicinity map within plan drawing.
- 2. Bench Mark description/location, city Bench Mark used to design grades and set TBM.
- 3. Existing City top of curb and flow line elevations on or adjacent to site along Wyoming Blvd.
- 4. Erosion Control Plan required for duration of construction. What do you propose as far as erosion control.

Please provide this information so that we may process your request as expediently s possible.

Cordially,

Bernie J. Montay a

City Design/Hydrology Section

BJM/c1

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

ORAINAGE INFORMATION SHEET PROJECT TITLE: HOORSU STANL OFFICE BUDS. ZONE ATLAS/DRNG. FILE #: H/9-D34 LEGAL DESCRIPTION: THACT "A", BLOCK 26, INEZ SUBDIVISION CITY ADDRESS: 2033 WYOMING N.F. CONTACT ENGINEERING FIRM: PHONE: ADDRESS: CONTACT: OWNER: THE PARTY OF THE PHONE: ADDRESS: CONTACT: BOB SHOPARD ARCHITECT: FMBA PHONE: 2686783 ADDRESS: SGOB ZUNI S.E. CONTACT: SURVEYOR: PHONE: ADDRESS: CONTACT: CONTRACTOR: PHONE: ADDRESS: PRE-DESIGN MEETING: DRB NO. EPC NO. PROJ. NO. COPY OF CONFERENCE RECAP SHEET PROVIDED CHECK TYPE OF APPROVAL SOUGHT: TYPE OF SUBMITTAL: SKETCH PLAT APPROVAL DRAINAGE REPORT PRELIMINARY PLAT APPROVAL V DRAINAGE PLAN SITE DEVELOPMENT PLAN APPROVAL CONCEPTUAL GRADING & DRAINAGE PLAN FINAL PLAT APPROVAL GRADING PLAN BUILDING PERMIT APPROVAL EROSION CONTROL PLAN FOUNDATION PERMIT APPROVAL ENGINEER'S CERTIFICATION CERTIFICATE OF OCCUPANCY APPROVAL \_\_ ROUGH GRADING PERMIT APPROVAL GRADING/PAVING PERMIT APPROVAL \_\_\_ OTHER \_\_

DATE SUBMITTED: \_\_ BY:



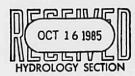
### flatow rnoore bryan & associates

william jette leon ross rusty shaffer wayne andrews jon moore robert mc cabe tobias flatow

> ARCHITECTS ENGINEERS PLANNERS

5608 zuni s.e. albuquerque new mexico (505) 268-6783

mailing address p.o. box 8266 albuquerque new mexico 87198 October 16, 1985



City of Albuquerque Design Hydrology Section 123 Central, N.W. Albuquerque, New Mexico 87102

Attention: Bernie Montoya

Re: Hooten Office Building (H19-D34)

Dear Bernie:

In reply to your letter of October 1, 1985, the following may be added to the drainage report. They are in the same order as the items in your letter.

#### Information needed:

- Off-site flows are minimal. They are generated from the adjoining paved parking lot to the north and are directed toward Myoming Blvd. The flows will continue to Wyoming across the new pavement in the same manner they now cross the unpaved portion.
- Approved copy of the replat is being prepared and will be forwarded for your files before the building permit is sought.
- Drainage facilities have been submitted to the City Engineer for construction in the right-of-way.

#### Plan Drawing:

- 1. Vicinity map is on the drawing. Sheet C-2.
- City bench mark information has been placed on the drawing.
- Existing curb and flow line elevations have been shown on the drawing.
- 4. Erosion control during construction will be provided by constructing the retention pond and appurtenances at the beginning of the project. A temporary earth berm will be constructed along Wyoming Blvd. to control sheet flow until permanent paving is in place.

City of Albuquerque Page -2-October 16, 1985

We are sending a new submittal of Sheet C-2. Please call me if further information is required.

Sincerely,

Flatow, Moore, Bryan & Associates

Bob Sheppard

BS:jss PP.4/38

copy: FMBA File C-2a



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

October 18, 1985

Mr. Bob Sheppard .FMBA P.O. Box 8266 Albuquerque, NM 87198

REF: DRAINAGE PLAN FOR HOOTEN STAHL OFFICE BUILDING (H19-D34)
RECEIVED OCTOBER 16, 1985

Dear Mr. Sheppard:

Based on the information provided on your October 16, 1985 submittal, we will need a revision date with engineer's stamp on the plan drawing before approval is granted.

If I can be of further assistance, please feel free to contact me at 766-7644.

Sincerely,

Carlos A Montova

City/County Flood Plain Admin.

CAM/BJM/cl

ROJECT TITLE: HOURSU STALL OFFICE	ZONE ATLAS/DRNG. FILE #: H./9-203
EGAL DESCRIPTION: TRACT A" MEZ	SUBDIVISION BLOCK 26
CITY ADDRESS: 2033 WYOMING	N.E.
NGINEERING FIRM:	CONTACY:
ADDRESS:	PHONE:
WNER:	CONTACT:
ADDRESS:	PHONE:
RCHITECT: FLATOW MOURE PREY	AN CONTACT: BOB SHEPED
ADDRESS: 5608 ZUNI SE.	PHONE: 2686783
ADDRESS: 5008 ZUAT SE.	
urveyor:	CONTACT:
ADDRESS:	PHONE:
ONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
	in
PRE-DESIGN MEETING: OCT 23,1985	
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HYDROLOGY SECTION	N EPC ND
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## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

October 28, 1985

Mr. Bob Sheppard FMBA P.O. Box 8266 Albuquerque, NM 87198

REF: REVISED DRAINAGE PLAN FOR HOOTE STAHL OFFICE BUILDING (H19-D34) REVISION DATE 10/11/85

Dear Mr. Sheppard:

Based on the information provided on your October 23, 1985 resubmittal, the above referenced drainage plan is approved for Building Permit.

Please be advised the the Building Permit will not be issued until an approved filed copy of the replat has been submitted to our office for our files.

If I can be of further assistance, please feel free to contact me at 766-7644.

Sincerely,

Carlos A. Montoya, PE City/County Flood Plain Admin.

CAM: BJM: mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

**ENGINEERING DIVISION** 

Telephone (505) 766-7467

#### DRAINAGE REPORT FOR HOOTEN OFFICE BUILDING

The site is Lots, 3, 4, 5, and the northerly portion of 6, Block 26, Inez Addition. It is located on Zone Atlas Map H-19. Wyoming Boulevard abuts the property on the east (See Plate 1). It is an in-fill development as the properties north and south are fully developed. The site is not in a flood zone. Existing slope is to the southwest at 2.15%.

The calculations will analyze the 100 year and 10 year design storms. The procedure for estimating flow will be as outlined in the Development Process Manual, Volume 2, Chapter 22.

Basis of Design:

A (Area) = 0.65 acres

Soil Classification - Embudo. SCS Group - B

P = 2.4" for 100 year storm

P = 1.58" for 10 year storm

 $T_c = 0.0078 L^{.77}/s^{.385}$ 

 $i = 6.84 t_c^{-.51} (P)$ 

Q = CiA

 $S = \frac{1000}{CN} - 10$ 

 $R.0. = (P - 0.2S)^2/P + 0.8S$ 

Volume = A (sf) x R.0./12

**Existing Conditions:** 

C = 0.34 (0% impervious)

 $T_c = 0.0078 (260^{.77})/0.0215^{.385} = 2.5 \text{ min.}$  Use 10 min.

 $i = 6.84 \times 10^{-.51} \times 2.4 = 5.07$  for 100 yr. storm

Drainage Report for Hooten Office Building Page Two

 $i = 5.07 \times 0.657 = 3.33$  for 10 yr. storm

 $Q_{100} = 0.34 \times 5.07 \times 0.65 = 1.12 \text{ cfs}$ 

 $Q_{10} = 0.34 \times 3.33 \times 0.65 = 0.74 \text{ cfs}$ 

CN = 66

S = 5.15

R.O. = 0.29" - 100 yr. storm.

 $V_{100} = 0.29 \times 43,560 \times 0.65/12 = 685 \text{ cf}$ 

R.O. = 0.05" - 10 yr. storm

 $V_{10} = 0.05$ " x 43,560 x 0.65/12 = 120 cf

Developed Conditions:

The site will be 95% hardsurfaced. 63% of this area, which includes the building, will surface drain to Wyoming Boulevard. 32% or 0.21 acres will be directed to a retention pond and pumped to Wyoming Boulevard. Pond capacity will be such that, in the event of pump failure, the volume generated by the 100 year storm for this basin will be contained. Overflow will be directed southward along the line of existing natural drainage. See Attachment C-2.

Surface Flow Calculations:

A = 0.39 ac (63% of hard surface)

C = 0.92 (for 95% hard surfaced)

 $r = 0.0078 (230^{.77})/0.03^{.385} = 2 \text{ min.}$  Use 10 min.

i = 5.07 for 100 yr. storm.

i = 3.33 for 10 yr. storm.

 $Q_{100} = 0.92 \times 5.07 \times 0.39 = 1.8 \text{ cfs}$ 

 $Q_{10} = 0.92 \times 3.33 \times 0.39 = 1.2 \text{ cfs}$ 

## 'ainage Report for Hooten Office Building

Composite CN = 96 S = 0.42R.O. = 1.96" - 100 yr. storm R.O. = 1.17" - 10 yr. storm  $V_{100} = 1.96 \times 0.39 \times 43,560/12 = 2,780 \text{ cf}$  $V_{10} = 1,660 \text{ cf}$ 12" wide sidewalk culvert A = 0.56 sfS = 0.0208'/ft.= 0.27  $Q = 0.56 \times \frac{1.486}{0.013} \times 0.418 \times 0.144 = 3.8 \text{ cfs} > 1.8 \text{ cfs}$ 

#### Pond Calculations:

A = 0.21 acres

C = 0.92

 $Tc = 0.0078 (300^{.77})/0.0208^{.385} = 2.8 \text{ min.}$  Use 10 min.

i = 5.07 for 100 yr. storm

i = 3.33 for 10 yr. storm

 $Q_{100} = 0.92 \times 5.07 \times 0.21 = 1.0 \text{ cfs}$ 

 $Q_{10} = 0.6 \text{ cfs}$ 

Composite CN = 96

S = 0.42

R.O. = 1.96" - 100 yr. storm

R.O. = 1.17" - 10 yr. storm

 $V_{100} = 1.96 \times 0.21 \times 43,560/12 = 1,500 cf$ 

V<sub>10</sub> = 890 cf

Drainage Report for Hooten Office Building Page Four

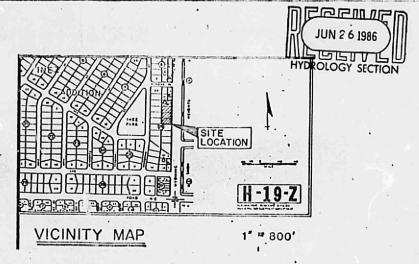
Pond area = 256 sf (See Attachment C-2)

Pond depth = 1,500/256 = 5.86'. Use 6'.

Pump discharge will be directed thru the curb at the rate of 1 cfs.

### CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



Legal Description: Lots 3, 4, 5 and the northerly portion of 6, Block 26, Inez Addition, Bernalillo Co. Albuquerque, NM.

Bench Mark: Northeast quadrant of Wyoming and Indian School N.E. Brass cap 7H20
... set in hole in sidewalk.
Elevation = 5371.077

Temporary Bench Mark: Square cut in top of curb at site. Slevation = 5377.10

DESCRIPTION OF WORK

FACILITY # 1 - SIDEWALK CULVERT LOCATED @ 8-0"
FROM SOUTH PROPERTY LINE
FACILITY # 2 - CURB PENETRATION LOCATED @ 11-0"
FROM SOUTH PROPERTY LINE

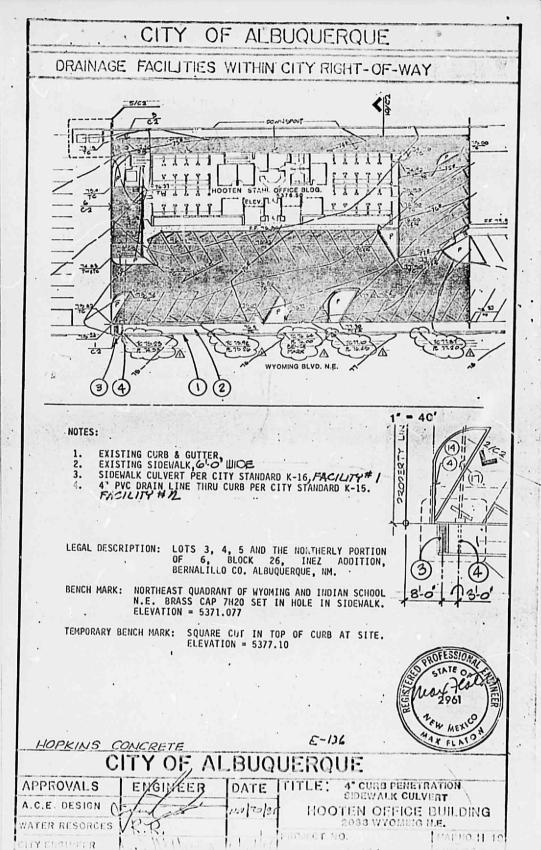


### NOTICE TO CONTRACTOR.

- 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.
- 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 Interium Standard Specification - Public Works Construction
- 1985.

  3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
- 4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to arterial street use.

HOPKINS CONCREAT	46-034	E-136
APPROVALS NAME DA	SIDEWALK CULV	
A.C.E. DESIGN G. WILL LOV	MOOTEN OFFI	
NO PETER / CR.	vona wyonikie	



THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

