

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 11, 1982

Attu: Mr. Bill Ragsdale HBE Corporation

Dear Bice, Enclosed please find:

a. alley grades-original b. Plat-sepia

C. Construction drawing-sepia.

Please return the corrected alley grades, along with the warted-up privits.

If you need anything, please

Succerely, Brian Burnett Civil Engreer Hydrola

CC. Phil Figher

MUNICIPAL DEVELOPMENT DEPARTMENT

Richard S. Heller, P.F. City Engineer

ENGINEERING DIVISION

AN EQUAL OPPORTUNITY EMPLOYER

Telephone (SiPa 766-246



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ENGINEERING DIVISION

Lelephone (50% 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

#### HBE Bank Facilities

Division of HBE Corporation, 717 Office Parkway, St. Louis, Missouri 63141, Phone (314) 567-9000 H19-010

March 4, 1982

Mr. Brian Burnett City of Albuquerque P.O. Box 1293 4th Floor Albuquerque, New Mexico 87103

Albuquerque U.S. Employees Federal Credit Union

Dear Brian;

Enclosed please find 3 originals and 7 prints each of the alley plan-profile and Sheet Cl. Revisions have been made per comments received from Mr. Bob Kielich.

If you have any questions, please do not hesitate to contact me.

Sincerely,

HBE Bank Facilities

William L. Regodale William L. Ragsdale

cc: Mike Eschman Bob Keyes Lynn Riley

Enclosure



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

H19 - D10

December 11, 1987

Mr. Frederick S. Scott Frederick Scott Architect 717 Office Parkway St. Louis, Missouri 63141

RE: ALBUQUERQUE U.S. EMPLOYEES FEDERAL CREDIT UNION

Dear Mr. Scott:

The above referenced drainage report was received in our office on November 23, 1981 and reviewed by our office on December 11, 1981. We are sending you copies of the City of Albuquerque Hydrology Checklist & Procedures and Interim Drainage Guidelines. All items on the checklist should be addressed and included in a report or on the drainage plan. The items that you feel do not apply should be addressed with a statement indicating why.

The "Drainage Report Information Sheet" should also be filled out and returned with the drainage report.

If I can answer any questions concerning the above, please contact me at (505) 766--7467.

Very truly yours,

Brian G. Burnett Civil Engineer/Hydrology

BGB/tsl

Enclosures



H19-D10

February 9, 1982

Mr. Bill Ragsdale HBE Corporation 717 Office Parkway

St. Louis, Missouri 63141

Re: ALBUQUERQUE U.S. EMPLOYEES FEDERAL CREDIT UNION

Dear Bill:

To expedite construction of the referenced project, this office will grant a 30-day conditional building permit which allows the contractor to begin work. However, we request that the proposed alley grades be resubmitted at the earliest possible date so that review and approval can be accomplished during this 30-day period. We would appreciate receiving the original and 7 prints to review.

If I can be of further help, please call.

Civil Engineer/Hydrology

BGB/fs

cc: Mr. John Thompson Mr. Bob Jenkins

Bole Jenkus 242-1707

Richard S. Heller,

Telephone (505) 766-7467



H19-D10

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Very truly yours,

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Civil Engineer/Hydrology

BGB/tsl

Enclosures



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

H19 - D10

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If I can answer any questions concerning the above, please contact me at (505) 766-7467.

Very truly yours.

Brian G. Burnett

Civil Engineer/Hydrology

BGB/tsl

Enclosures



# City of . Albuquerque P.O. 80X 1293 ALBUQUERQUE, NEW MEXICO 87103

### CRAINAGE REPORT REQUIREMENTS CHECKLIST

PROJECT TITLE	lbuquerque U.	S. Employees Fede	eral Credit	mion.	
DATE January	3, 1982	ZONE	ATLAS PAGE	₩H-19-Z	
REVIEWER City of A	11 of lots 6.7.	, and 19 and the	south 58.50'	of lot 18, in	block
ARCHITECTURAL &	HBE Bank Faci	lities Corp.	CONTACT _F	ed Scott	
ACCRESS 71	Office Parkwa	y, St.Louis, MO	PHONE	314-567-9000	
CWNER Albuquerqu	ne U.S.Empl. Fe	ed. C.U. CONT	CT John The	mpson 05_262_2821	
ADDRESS 616	Gold Ave, S.W.,	Albuquerque, N.M.	OCT John	Leverton	
		Engineering CONT.	PHONE	505-898-8021	
Approval of have been satis does not consti Requirements Ch	tute approval ecklist). The	14. 11.11.	e granted who approval of ion plans (some of the constant of t	men the follow the drainage See Constructi City of Albuquabelled A and	ing items
GENERAL:					
YES NO NA . CO	SEE MAENTS			JAN 27 1982	
x !	1.	ENGINEER CERTIF	ES	ENGINEERING	
		PLANNING HISTORY tory (A-218; 8-	7).		
	3.	PROFESSIONAL CE	and date (5-	4F and 6=/6/.	
X X X		the grading	rchitact, or plan.	Surveyor who	prepared
x	#1 A.	Flood Hazard Bo	uncary Map (	A-215; 5-767.	
x!	* 5.	WATERS-ED SCILS buting off-sits Scil Survey Man	watersness is (A-218; 8	-7E).	
I IxI	f.	SCILS - Sails i within 15 ft. i closer than 15 required settled 18" deep or let to street RGW i ment. For cond pand closer the	from planned ft. from the ek on adjace ss, water ma out not clos	or existing a property line property.  y be impounded ar than 10' for the property for the property of the property for the p	me minus the For conds i adjacent com pave— ihall not

OFF-SITE CONDITIONS: YES . NO . NA . COMMENTS : WATERSHED AREA - Delineation of off-site contributing watersheds on City of Albuquerque Ortho-Topo Area Maps at scale 1" = 200' or 1" = 500' (A-6815; 8-78). 8. STORM FLOWS - Quantification of off-site rates of flow caused by contributing watersheds for the: A. 10 year frequency storm (A-6815) B. 100 year frequency storm (A-6815 3-2E). 9. FLOW DEPTH AND VELOCITY A. Off-site flow velocities determined (A-6815). 8. Off-site flow cepths determined (A-6815). C. Locations indicated for A and B above (A-6815). OTHER CONDITIONS - Discussion of any off-site con-ditions or drainage facilities that affect site drainage (A-21A5f; B-7B). 11. PROPOSED TREATMENT - Adequate treatment of off-site flows including: A. Definition of required drainage facilities (A-219; E-4A). Location and configuration of facilities de-fined in A above (A-218; B-4A). X C. Quantification that off-site flow draining through site shall do so at a rate of flow ve-X locity, quantity, and location which does not exceed the capacity on such site and downstream drainage facilities OF does so in a manner similar to that which existed before such alteration (9-44). 12. RCW-EASEMENTS - Delineation of R.O.W. and/or Easement configuration necessary to accommodate #11 above (A-218;8-78). X CN-SITE CONSITIONS: Œ SS NO NA COMMENTS 13. FLOW VOLUMES AND RATES - Calculations showing on-site undeveloped and developed flow volumes and #2 rates (B-4F). 14. FLOW CEPTH AND VELCCITY: ceterminec (A-6215). A. Cn-site flow depth cetermines (A-6215).

a. Cn-site flow velocities cetermines (A-6215). C. Locations indicated for A and B above (A-6815). 15. PROPOSED TREATMENT - Adequate treatment of on-site flows including: A. Cefinition of required drainage facilities X (A-213; 5-4F).

- Location and configuration of facilities cefines in A above (A-218; B-4F).
  - 1. Pond volume calculations (3-48).
  - Positive discharge of porcs with required rate and outlet calculations (8-48).
  - 3. Ponc emergency spillway calculations (8-78)

X

IX I

IX

1X

Æ	
YES - NO - NA - COMMENTS "	tend for double greater
X	4. Pond fencing required for depths greater than 18" (8-78).
x	<ol><li>Pond landscaping provisions and commitments (A-21B).</li></ol>
T X	<ol> <li>Pond maintenance provisions and commit- ments. SEE ATTACHED STANDARD COVENANT (A-218).</li> </ol>
T X	<ol> <li>Channel characteristics including flow depths and velocities (A-218).</li> </ol>
x	<ol> <li>Storm sewer characteristics including capacity and hydraulic grace line calculations (A-218).</li> </ol>
X *	<ol> <li>Hydraulic characteristics of other storm drainage facilities listed in 80-15; Sec. 2c(A-21B).</li> </ol>
X #4	C. Quantification that cn-site flow shall discharge at a rate of flow, velocity, quantity, and location which does not exceed the capacity of downstresm drainage facilities OR does so in a manner 2/milar to that which existed before such alteration (8-48).
X	16. ROW-EASEMENTS - Celineation of R.O.W. and/or Easement configuration necessary to accommodate #13 above (A-218).
PLAN CRAWINGS:	
YES NO NA COMMENTS	
	17. CRAFTING STANCARDS:
X X #5	<ul> <li>A. North Arrow indicated (A-21A2).</li> <li>B. Standard engineering scales used - 1" = 10' for sites less than one acre; 1" = 20' for sites less than five acres; 1" = 50' for sites greater than five acres (A-21A2).</li> </ul>
X	C. Legend.
	18. SITE CESCRIPTION:
x	A. Copy of zone atlas page with property outlined (A-21A6).
X   #6	3. Legal description (A-21A6).
	19. EENCH MARKS:
	Seference Alburgarous Control Survey Vertical
x   *	Estim institut name of the control o
х	C. Temcorary berch mark description (A-21A5e; 9-7A).
	constant (and automore)
	20. EXISTING SITE CONCITIONS: (SEE SHEET C1)
x :	20. EXISTING SITE CONDITIONS: (SEE SHEET CT)  A. Existing contours per Succivision Ordinarce A-21A5el and AMAFCA 80-15 8-7A.  B. Soot elevations accountely showing conditions

4

SEE.

	K. Elevation of propert, line at least 1 ft. above flowline (A-21B).
T X	L. Retaining wall required when a vertical grade change greater than 18" is indicated (A-218; 8-7A).
	M. Details of ponds, swales, rundowns, curb cuts, water blocks, and all other significant drainage structures with contours, cross-sections, and spot elevations when appropriate. NOTE: All proposed construction within the public right-of-way must follow the City Engineer's Special Order No. 19 (A-218; 2-78).
THER:	
SEE YES NO NA COMMENTS	
T X X	22. Erosion Control Plan (A-218; 8-78).
Y Per teleph	23. Owners commitment to construct, operate, and maintain drainage facilities in substantial compliance with drainage report and grading plan (A21B).  One conversation on 12/24/81, Brian Burnett indicated that
desit have to provide	flood hazard information since the site is not within the
flood hazard boundary.	
#2 Flow Volumes and Rat	Pervious = 12,040 S.F.
a) Areas: Undevelor	- 20 562 F.
Developed	d Pervious = 3,415 S.F.  Impervious = 29.187 S.F.
	32,602 S.F.
b) Rainfall Inten	A - 6166
	2.664
	4.6 (10 yr. 5 min.)
	4.26 (10 yr. 5 min.) - Boca - 4.5 (10 yr. 5 min.)
	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5
c) <u>Rumoff</u> <u>Coefict</u>	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5
c) Rumoff Coefici	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5  ient - Pervious = 0.35 Impervious = 0.90
	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5  ient - Pervious = 0.35
d) <u>Quantities</u> :	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5  ient - Pervious = 0.35 Impervious = 0.90  - pervious = 12,040 x 4.5 x 0.35 = 0.44 cfs
d) <u>Quantities</u> :	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5  ient - Pervious = 0.35 Impervious = 0.90  - pervious = \frac{12,040}{43.560} \times 4.5 \times 0.35 = 0.44 cfs  - Impervious = \frac{20,562}{43,560} \times 4.5 \times 0.90 = 1.91 cfs
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d) <u>Quantities:</u> <u>Undeveloped</u>	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5  ient - Pervious = 0.35
d) Quantities: Undeveloped  Developed	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5  ient - Pervious = 0.35 Impervious = 0.90  - pervious = \frac{12,040}{43.560} \times 4.5 \times 0.35 = 0.44 cfs  - Impervious = \frac{20,562}{43,560} \times 4.5 \times 0.90 = 1.91 cfs  TOTAL - 2.35 cfs  - pervious = \frac{3,415}{43,560} \times 4.5 \times 0.35 = 0.12 cfs  - Impervious = \frac{29,187}{43,560} \times 4.5 \times 0.90 = \frac{2.71 cfs}{2.71 cfs}  TOTAL - 2.83 cfs
d) <u>Quantities:</u> <u>Undeveloped</u>	4.26 (10 yr. 5 min.)  - Boca - 4.5 (10 yr. 5 min.)  - Use 4.5  ient - Pervious = 0.35

COMMENTS: \_#3 Flow Depth and Velocity: Location for worst condtion on site:  $= \frac{2895}{43560} \times 4.5 \times 0.35 = .0.105$ Pervious Impervious y 4.5 x 0.90 = 1.145 1.25 cfs Q = 1.25 cfs 0.01 = 1.00 % s = 0.1000 n = 0.018 (Rough asphalt = 0.016 + 0.002 for flat slope) 8.85 TRY D = 2 1/8"A = 0.7840WP = 9.0330 $R^{2/3} = 0.0868$  $R^{2/3} = 0.1960$  $1.25 < \frac{1.486}{0.018} \times 0.7840 \times 0.1960 \times 0.1000$ 1.25 < 1.27 ٩ ـ 1.27 = 1.62 fps #4 Increase rate of flow will be 0.50 cfs as shown in Comment #2. This should not overload the capacity of downstream drainage facilities. #5 Brian Burnett indicated that 1" = 20' scale would be acceptable on this project, if the design information can be easily interpeted from the plan. #6 The owners surveyor is presently preparing a summary plot of the property. Per telephone conversation on 12/30/81, Brian Burnett indicated that we don't

have to provide this information for this project.



# City of Albuquerque P.O. 30X 1293 ALBUQUERQUE, NEW MEXICO 87103

#### ORAINAGE REPORT INFORMATION SHEET

PROJECT Albuquerque U.S. Employees Federal Credi	OCOO Tarranco N F
ZONE ATLAS PAGE NO. H-19-Z CITY ADDRESS	South 58,50° of lot 18 in block 3 of
ARCHITECTUAL & HBE BANK F/CILITIES CORP.	CONTACT Fred Scott
ACCRESS 717 Office Parkway St. Louis MO	PHONE
CHAER Albuquerque U.S. Empl. Fed. C.U.	CONTACT John Thompson
ADDRESS Albuquerque, N.M	PHONE 505-242-2821
S629 Paradise Blvd. N.W.	CONTACT John Leverton
ACCRESS Albuquerque, N.M.	PHONE
CATE SLEMITTED	

MUNICIPAL DEVELOPMENT DEPARTMENT



# City of Albuquerque

## CONSTRUCTION PLAN REQUIREMENTS CHECKLIST

PROJECT TITLE	Albuquerque U.S	. Employees	Federal Cr	edit Uni	lon	
DATE January			ZONE ATLAS	PAGE NO	. н-19	-2
	of Albuquerque All of lots 6, 7, Sombra Del Monte	and 19 and	the South	58.50' 0	of lot 18,	in Block 3 of
ARCHITECTURAL ENGINEERING FI	& TRM HBE BANK FAC	TILITIES COR	CONTA	CT Fre	ed Scott	
ADDRESS 7	17 Office Parkway	y,St. Louis,	MO PH	CNE3	14-567-9000	
61	que U.S. Empl. Fe 6 Gold Ave., S.W. buguerque, A.M.	•	CONTACTPI	ONE	05-242-2823	1. 4
MECHANISTICS IN	VEYOR Leverton E	ngr. Inc.	CONTACT	John Le	verton	1
	5629 Paradise Black Albuquerque, N.M.	va. n.w.	PI	HONE 5	05-898-8021	
GENERAL						
Yes No NA .	<b>=</b> 1.	8. Engine C. Engine the gr	er who pre er or Surv er, Archit rading plan	eyor who ect or S	e oraznage	. WELOIT
X	₹1 ₹1	A. 1"=10 B. 1"=20 (5) a C. 1"=50	' for sites ' for sites cres. ' for sites	: less to : equal (	to but less	than five
x	#2 3.	descriptio				
IX I	#3 A.	Survey Ver	tical Catu	n.		erque Control
х	5.	Mark on si				
X	5.			mccls an	n accrevia	tions usec.
x	7.	Ecci	ion of: in floor el meer or Sur mage & Grad	VEYCI.		ec Zone by

Yes No NA Comments	0	
x		Existing contours (per Subdivision Ordinance A-21A5el and AMAFCA 80-15 Sec. 7A and spot elevations adequately showing conditions on-site and any other significant spot elevations off-site which would increase clarity.  Note: Contours and spot elevations should be extended a minimum of 15' beyond property line. Some sites may require more off-site topographic information.
X	] 9.	Proposed contours (per Subdivision Ordinance A-21A5el and AMAFCA 80-15 Sec. 7A) superimposed over existing contours, adequately supporting the drainage plan (A-21A11; B-7A).
x	] jo.	Proposed and existing contours or spot elevations at the property line adequately demonstrating any changes in grade.
X	] jr.	Existing or proposed (City approved) top-of-curb and flowline elevations along streets adjacent to the site with mean sea level designation (This also applies to alleys).
x	] j2.	Finish floor elevation(s) with main sea level designation.
x	פֿוָ דַ.	Required spot elevations for the standard City drivepad.
CONSTRUCTION CETAIL:		
Yes · No · NA · Comment	s	
х	] ja.	Swales defined by arrows, spot elevations, and cross-sections.
х	<u></u> 15.	Elevation at property line at least 4" above top of curb.
X	] 16.	Internal contributory drainage areas outlined, including roof areas,
X	<b>]</b> 17.	Location of canales, scuppers and drain pipes.
x	⊒ ia.	Notes defining property line, asphalt sicewalks, planting areas, pording areas, and all other areas where definition would increase clarity.
X #6	i9.	Erosica Control Plan (during construction and for phased construction).
x	<u> </u>	<ul> <li>Indication of all easements and rights-of-way on, or adjacent to, the site with dimensions and pur- pose shown.</li> </ul>
	<u>21</u> .	. Retaining wall required when a vertical grace charge greater than 18" is indicated.
X ! !	22	Details of porcs, swales, rundowns, curb outs, water blocks, emergency spillways, retaining walls pond outlets, safety fences, slopes, and all other significant crainage structures with contours, cross-sections and spot elevations when appropriate. ALL CROSS-SECTIONS MUST BE DRAWN TO STANDARD ENGINEERING SCALE OR ADEQUATELY DIMENSIONED.

	7 23.	Proposed construction within City right-of-way per
X		City Engineer's Special Order No. 19.
x	24.	Indication of all existing structures on or adjacent (15' minimum) to the site, such as: retaining walls, buildings, pavement, ponds, etc.
X	25.	Indication of street name(s) adjacent to the site.
x	26.	Storm runoff routed through the driveped or a City approved curb cut.
X	27.	Slopes (cut or fill) with height of less than 18", not steeper than 2:1. Slopes with height greater than 18", not steeper than 3:1.
T X	28.	Pond(s)' 100 year water surface: A. Elevation B. Outlined on the Plan
I X		3. Oddania di di di
COMMENTS: #1:	Brian Burnett	t indicated that 1" = 20' scale would be acceptable on
		y, if the design information can be easily interpeted
	from the plan	
#2:	The owners so	urveyor is presently preparing a summary plat of the
	property.	
#3:	Per telephone	e conversation on 12/30/81, Brian Burnett indicated that
	we don't have	e to provide this information since we provide a temporary
	bench mark o	n site which is based on local city datum
#4:	Brian Burnet	t indicated that the site is not within a flood hazard area
#5:	The city sha	11 follow the standard procedure for issuing an occupancy
	permit.	The same of the state of the st
#6:	Brian Burnet	t indicated that we don't have to provide this information
-	for this pro	ject.
-		
-		
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### CRAINAGE REPORT REQUIREMENTS CHECKLIST

PROJECT TITLE Albuquer	ue U. S. Employees Federal Credit Union	
DATE January 8, 1982	ZONE ATLAS PAGE NO. H-19	- Z
REVIEWER City of Albuqu	erque cs 6,7, and 19 and the south 58.50° of lot 18,	
ARCHITECTURAL & HEE RO	k Facilities Corp. CONTACT Fred Scott	
ENGINEERING FIRM HEE DE	# FACTIFICIES 00191	00
ACCRESS 717 Office	Parkway, St.Louis, MO PHONE 314-567-900	
CMNER Albuquerque U.S.E	pl. Fed. C.U. CONTACT John Thompson	
ACCRESS 616 Gold Av	s,S.W.,Albuquerque,N.M. PHONE 505-242-2821	
ARCHITECTE / SURVEYOR Lev	erton Engineering CCNTACT John Leverton	
ADDRESS 5610 Parad	Inc. PHONE 505-298-80	21
Approval of the sul have been satisfied. I	e, N.M. mitted drainage will be granted when the follows the drainage will be granted when the follows be advised that approval of the draina roval of the construction plans (See Construction). The pertinent sections of the City of Albor the AMAFCA Resolution 80-18 [City of Albor the Amafca and parenthesis after each requirement.	ge report
GENERAL:	JAN 27 1982	•
SEE	Fallian	
YES NO NA COMMENTS	ENVOIREEMAG	•
X	1. ENGINEER CERTIFIES	
x   *	2. PLANNING HISTORY - Planning and zoning tory (A-218; 8-7).	
	<ol> <li>PROFESSIONAL CERTIFICATION - Profession with signature and date (8-4F and 8-7)</li> </ol>	cnal's stamp B):
X X X X	A. Engineer who prepared the Orainag B. Engineer or Surveyor who performe C. Engineer, Architect, or Surveyor the grading plan.	
X   #1	4. FLCCO HAZARD - Celineation of site or Flcco Hazard Souncary Map (A-215; 8-7	c/.
X ! *	<ol> <li>WATERS-ED SCILS - Delineation of size buting off-size watersness on SCS Ber Soil Survey Maps (A-218; 8-78).</li> </ol>	
1 1 x 1	6. SOILS - Soils investigation report for within 15 ft. from planned or existing closer than 15 ft. from the property required setback on adjacent property 18" deep or less, water may be import to street ACW but not closer than 10 ment. For sonds deeper than 12", water cond closer than 15" to the cavement	line minus the // For ponds nded adjacent ' from pave- em shall not

OFF-SITE CONDITIONS:		
YES NO NA COMMENTS :		
X   *	7.	WATERSHED AREA - Delineation of off-site contribut- ing watersheds on City of Albuquerque Ortho-Topo Area Maps at scale 1" = 200' or 1" = 500' (A-6815; 8-78).
	8.	STORM FLOWS - Quantification of off-site rates of flow caused by contributing watersheds for the:
X *   *		A. 10 year frequency storm (A-6815) B. 100 year frequency storm (A-6815 B-2E).
	9.	FLOW DEPTH AND VELOCITY
X *		A. Off-site flow velocities determined (A-6815).  B. Off-site flow cepths determined (A-6815).  C. Locations indicated for A and B above (A-6815).
x *	10.	OTHER CONDITIONS - Discussion of any off-site conditions or drainage facilities that affect site drainage (A-21A5f; 8-78).
	μ.	PROPOSED TREATMENT - Adequate treatment of off-site flows including:
X   *		A. Definition of required drainage facilities
X   *		(A-21B; B-4A).  B. Location and configuration of facilities de-
X   *		fined in A above (A-218; B-4A).  C. (wantification that off-site flow draining through site shall do so at a rate of flow velocity, quantity, and location which does not exceed the capacity on such site and downstream drainage facilities GR does so in a manner similar to that which existed before such alteration (B-4A).
CN-SITE CONSITIONS:	12.	RCW-EASEMENTS - Celineation of R.O.W. and/or Easement configuration necessary to accommodate #11 above (A-218;8-78).
SEE SEE SEE		A ST DE CHARLES AND A STATE OF
X   #2	IJ.	FLOW VOLUMES AND RATES - Calculations showing on-site undeveloped and developed flow volumes and rates (B-4F).
	14.	FLOW CEPTH AND VELCCITY:
X #3 X #3 X #3		A. Cn-site flow depth determined (A-6815).  B. Cn-site flow velocities determined (A-6815).  C. Locations indicated for A and B above (A-6815).
	15.	. PROPOSED TREATMENT - Adequate treatment of on-site flows including:
x		A. Cefinition of required drainage facilities (A-218; S-4F).
X		<ol> <li>Location and configuration of facilities ca- fined in A above (A-ZIS; B-4F).</li> </ol>
X		1. Fond vol·me calculations (3-48).
1 1 X 1		<ol> <li>Positive discharge of ponds with required rate and outlet calculations (8-48).</li> </ol>
x		<ol> <li>Fond emergency spillway calculations (3-78)</li> </ol>

YES NO NA COMMENTS		
x x	4.	than 18" (8-78).
x	5.	Pond landscaping provisions and commitments (A-218).
x	6.	Pond maintenance provisions and commit- ments. SEE ATTACHED STANDARD COVENANT (A-218).
l x	7.	Channel characteristics including flow depths and velocities (A-218).
x	8.	Storm sewer characteristics including capacity and hydraulic grade line calculations (A-218).
x *	ģ.	Hydraulic characteristics of other storm drainage facilities listed in 80-15; Sec. 2c(A-21B).
X #4	chi an of	entification that cn-site flow shall dis- arge at a rate of flow, velocity, quantity, d location which does not exceed the capacity downstream drainage facilities OR does so in manner similar to that which existed before ch alteration (8-48).
1e	ment c	SEMENTS - Celineation of R.O.W. and/or Ease- configuration necessary to accommodate #13 (A-218).
PLAN CRAWINGS:  SEE  YES NO NA COMMENTS		THE STANDARDS.
1		ING STANCARDS:
X   #5	B. 5	erth Arrow indicated (A-21A2). tandard engineering scales used $-1"=10"$ for ites less than one acre; $1"=20"$ for sites ess than five acres; $1"=50"$ for sites greatran five acres (A-21A2).
X		egend.
	o ette	DESCRIPTION:
TX TT	A. Ċ	copy of zone atlas page with property cutlined
X   #6	3. L	A-21A6). egal description (A-21A6).
	19. ENC	+ MARKS:
x   +		Reference Albuquerque Control Survey Vertical Latum Location (A-21ASe; S-7A).
x	e.	Satum installer (A-Line), and in mean sea level satum as estamlished by the U.S. Coast and Ged- detic Survey, North American catum 1929
х	c.	(A-2185e; B-7A). Temporary bench mark description (A-2185e; B-7A).
	20. EXIS	TING SITE CONCITIONS: (SEE SHEET C1)
X	,	Existing contours per Succivision Graineros A-21A5el enc AMAFCA 80-15 8-7A.
x		Scot elevations accountally showing conditions on-site (A-21A5el; B-7A).

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$\sim$	
x l	K. Elevation of propert, line at least 1 ft. above flowline (A-218).
X	L. Retaining wall required when a vertical grade change greater than 18" is indicated (A-21B; B-7A).
X	M. Details of ponds, swales, rundowns, curb cuts, water blocks, and all other significant drainings structures with contours, cross-sections, and spot elevations when appropriate. NOTE: All proposed construction within the public right-of-way must follow the City Engineer's Special Order NJ. 12 (A-218; 8-78).
OTHER:	
YES NO NA COMMENTS.	
X *	22. Erosion Control Plan (A-218; 8-78).
х	<ol> <li>Owners commitment to construct, operate, and maintain drainage facilities in substantial compliance with drainage report and grading plan (A218).</li> </ol>
	one conversation on 12/24/81, Brian Burnett indicated that
we don't have to provide	flood hazard information since the site is not within the
flood hazard boundary.	
#2 Flow Volumes and Rat	es
a) Areas:	Pervious = 12,040 S.F.
Undevelop	ed - 1mpervious - 20,02 S.F .
Developed	- Pervious = 3,415 S.F.
	Impervious = 29.187 S.F. 32,602 S.F.
b) Rainfall Intens	ity - Charts = 1.2 (2 yr. 30 min.) x 2.22
	2.664 x 1.6
	4.26 (10 yr. 5 min.) - Boca - 4.5 (10 yr. 5 min.)
	- Boca - 4.5 (10 Vr. 3 min.) - Use 4.5
c) Runoff Coeficie	
C) Kunder Gotzett	Impervious = 0.90
d) <u>Quantities</u> :	
Undeveloped	- pervious = $\frac{12,040}{43,560}$ x 4.5 x 0.35 = 0.44 cfs
	- Impervious = $\frac{20,562}{43,560} \times 4.5 \times 0.90 = 1.91 \text{ cfs}$
	TOTAL - 2.35 cfs
Benefit and	pervious = 3,415 x 4.5 x 0.35 = 0.12 cfs
Developed	- 1 43,560 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	TOTAL - 2.83 cfs
e) <u>Increased runo</u>	
	0.48 cfs say 0.50 cfs

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COMMENTS: #3 Flow Depth and Velocity: Location for worst condtion on site: 0.105  $=\frac{2895}{43560} \times 4.5 \times 0.35 = ...$ Pervious  $\frac{12,315}{43,560}$  $x 4.5 \times 0.90 = 1.145$ Impervious 1.25 cfs = 1.25 cfs 0.01 1.00 % = 0.018 (Rough asphalt = 0.016 + 0.002 for flat slope) S 8.85 TRY D = 2 1/8" A = 0.7840WP = 9.0330R2/3 = 0.0868 R2/3 = 0.1960  $1.25 < \frac{1.486}{0.018} \times 0.7840 \times 0.1960 \times 0.1000$ 1.25 < 1.27 ٩ ـ 1.27 = 1.62 fps V= #4 Increase rate of flow will be 0.50 cfs as shown in Comment #2. This should not overload the capacity of downstream drainage facilities. #5 Brian Burnett indicated that 1" = 20' scale would be acceptable on this project, if the design information can be easily interpeted from the plan. #6 The owners surveyor is presently preparing a summary plot of the property. Per telephone conversation on 12/30/81, Brian Burnett indicated that we don't have to provide this information for this project.



#### ORAINAGE REPORT INFORMATION SHEET

H-19-Z CITY ADDRESS	Albuquerque, N.M.
All of Lots 6, 7, and 19, and the S	iouth 58,50° of lot 18 in block 3 o
ARCHITECTUAL & HBE BANK FACILITIES CORP.	CONTACT Fred Scott
ACCRESS 717 Office Parkway St. Louis MO	PHONE
CHER Albuquerque U.S. Empl. Fed. C.U.	CONTACT John Thompson
ADDRESS Albuquerque, N.M	PHONE 505-242-2821
AND THE PROPERTY SIRVEYOR Leverton Engineering Inc.	CONTACT John Leverton
5629 Paradise Blvd. N.W. ACCRESS Albuquerque, N.M.	PHONE
CATE SUBMITTED January 11, 1982	
BY HBE BANK FACILITIES CORPORATION	

MUNICIPAL DEVELOPMENT DEPARTMENT



# City of Albuquerque

### CONSTRUCTION PLAN REQUIREMENTS CHECKLIST

ROJECT TITLE Albi	iquerque U.S. E	imployees Feder	al Credit	Union	
ATE January 8, 19		ZONE	ATLAS PAGE	NO. H-19	2
EVIEWER City of A	f lots 6, 7, ar	nd 19 and the	South 58.50	of lot 18, i	n Block 3 of
RCHITECTURAL &	HBE BANK FACIL	TTIES CORP	CONTACT _	Fred Scott	
ACCRESS 717 OF	fice Parkway,S	t. Louis, MO	PHONE_	314-567-9000	
Albuquerque U	d Ave J. W.	C. U. CONT	PHONE	505-242-2821	1-1 KH-1
ALLRESS ATBURGE	Leverton Engr	. Inc. CONT	CT_Iohn	Leverton	-, -,T_L
ACORESS Albuq	LHIRGISE DIAG.	210 H 2	PHONE_	505-898-8021	
CENERAL				,	
Yes No NA Comme	ints ·				
X   X   X   X   X   X   X   X   X   X	A. a. c.	Engineer wi Engineer or Engineer, / the grading	Surveyor Architect of plan.	signature and the Orainage who performed or Surveyor who engineering s	* trebated
X   #1   X   #1	A. B.	1"=10' for 1"=20' for (5) acres. 1"=50' for	sites less sites equi	ater than five	than five (5) acres
X   #2	3. V	cinity man wi scription.	un Zone At	las Page No. a	nd legal
X   #3	s	rvey Vertical	Catum.	of the Albuque	
x 1 1 1	M	ark on site.		of the Tempora	
X				and accreviat	ions usec.
	Α Α	Foot coar	or elevati	ion in the Floo r. Plan by Engine	

TOPOGRAPHY:		
Yes No NA Comments		
X	8.	Existing contours (per Subdivision Ordinance A-21ASel and AMAFCA 80-15 Sec. 7A and spot elevations adequately showing conditions on-site and any other significant spot elevations off-site which would increase clarity.  Note: Contours and spot elevations should be extended a minimum of 15' beyond property line. Some sites may require more off-site topographic information.
x	9.	Proposed contours (per Subdivision Ordinance A-21A5el and AMAFCA 80-15 Sec. 7A) superimposed over existing contours, adequately supporting the drainage plan (A-21A11; B-7A).
	10.	Proposed and existing contours or spot elevations at the property line adequately demonstrating any changes in grade.
X	11.	Existing or proposed (City approved) top-of-curb and flowline elevations along streets adjacent to the site with mean sea level designation (This also applies to alleys).
х	<u>12.</u>	Finish floor elevation(s) with mean sea level designation.
x	13.	Required spot elevations for the standard City drivepad.
CONSTRUCTION CETAIL:		
Yes No NA - Comments		
x	14.	Swales defined by arrows, spot elevations, and cross-sections.
х	٤.	Elevation at property line at least 4" above top of curb.
X	16.	Internal contributory drainage areas outlined, including roof areas,
X	<u>1</u> 7.	Location of canales, scuppers and drain pipes.
x	ļs.	Notes defining property line, asphalt sidewalks, planting areas, pording areas, and all other areas where definition would increase clarity.
X 46	jø.	Erosion Control Plan (during construction and for phased construction).
x	20.	Indication of all easements and rights-of-way on, or adjacent to, the site with dimensions and purpose shown.
! x	21.	Retaining wall required when a vertical grace change greater than 18" is indicated.
x	22.	Cetails of ponds, swales, rundowns, curb cuts, water blocks, emergency spillways, retaining walls, pond cutlets, safety fences, slopes, and all other significant crainage structures with contours, cross-sections and spot elevations when accordinate. ALL CROSS-SECTIONS MUST BE GRAWN TO STANDARD ENGINEERING SCALE OR ADEQUATELY DIMENSIONED.

X	23. Proposed construction within City right-of-way per City Engineer's Special Order No. 19.
x	24. Indication of all existing structures on or adjacent (15' minimum) to the site, such as: retaining walls, buildings, pavement, ponds, etc.
TIT	25. Indication of street name(s) adjacent to the site.
X	26. Storm runoff routed through the drivepad or a City approved curb cut.
X	27. Slopes (cut or fill) with height of less than 18", not steeper than 2:1. Slopes with height greater than 18", not steeper than 3:1.
X	28. Pond(s)' 100 year water surface:  A. Elevation  B. Outlined on the Plan
	Brian Burnett indicated that 1" = 20' scale would be acceptable on
COMMENTS: FI:	this property, if the design information can be easily interpeted
	from the plan.
#2:	The owners surveyor is presently preparing a summary plat of the
	property.
#3:	Per telephone conversation on 12/30/81, Brian Burnett indicated that
	we don't have to provide this information since we provide a temporary
	bench mark on site which is based on local city datum
	Brian Burnett indicated that the site is not within a flood hazard area
#4:	The city shall follow the standard procedure for issuing an occupancy
#5:	
	Brian Burnett indicated that we don't have to provide this information
#6:	
	for this project.
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	The state of the s
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# City of Albuquerque

### CRAINAGE REPORT REQUIREMENTS CHECKLIST

ROJECT TITLE Albuquerque U. S. Employees Federal Credit Union
DATE January 8, 1982 ZONE ATLAS PAGE NO. H-19-Z
All of lots 6,7, and 19 and the south 50:55
ARCHITECTURAL STAN HBE Bank Facilities Corp. CONTACT Fred Scott
ACCRESS 717 Office Parkway, St.Louis, MO PHONE 314-567-9000
CONTACT John Thompson
ACCRESS 616 Gold Ave, S.W., Albuquerque, N.M. PHONE 505-242-2821
MACHINERY SURVEYOR Leverton Engineering CCNTACT John Leverton
ADDRESS 5629 Paradise Blvd. N.W. PHONE 505-898-8021
Abbquerque, N.M. Approval of the submitted drainage will be granted when the following items have been satisfied. Please be advised that approval of the drainage report have been satisfied. Please be advised that approval of the drainage report does not constitute approval of the construction plans (See Construction Plan does not constitute approval of the construction of the City of Albuquerque Sub- Requirements Checklist). The pertinent sections of the City of Albuquerque Sub- Requirements constitute and/or the AMAFCA Resolution 80-15 (lamages) and 8 respect- division Ordinance and/or the AMAFCA Resolution 80-15 (lamages) are identified in parenthesis after each requirement.
GE-FAL: JAN 27 1982
YES NO NA COMMENTS ENGINEERING
1. ENGINEER CERTIFIES
2. PLANNING HISTORY - Planning and tening action history (A-218; 8-7).
<ol> <li>PROFESSIONAL CERTIFICATION - Professional's stamo with signature and date (8-4F and 8-7B):</li> </ol>
A. Engineer who prepared the Orainage Report.  B. Engineer or Surveyor who performed the survey.  C. Engineer, Architect, or Surveyor who prepared the grading plan.
1 X #1 A. FLCCO HAZARD - Celineation of site on pertinent Flood Hazard Sourcary Map (A-218; 8-78).
5. WATERS-ED SOILS - Celiferation of site and contri- buting off-site watersness on SCS Bernalillo County Soil Survey Maps (A-219; B-78).
5. SOILS - Soils investigation report for ponding within 15 ft. from planned or existing structure or closer than 15 ft. from the property line minus the required setback on adjacent procesty. For ponds 18" deep or less, water may be impounded adjacent to street ROW but not closer than 10' from pavement. For ponds deeper than 18", water shall not good closer than 15' to the pavement (A-210;5-78).

OFF-SITE CONDITIONS. YES NO NA COMMENTS : 7. WATERSHED AREA - Delineation of off-site contributing watersheds on City of Albuquerque Ortho-Topo Area Maps at scale 1" = 200' or 1" = 500' (A-6815; 8-78). 8. STORM FLOWS - Quantification of off-site rates of flow caused by contributing watersheds for the: A. 10 year frequency storm (A-6815) B. 100 year frequency storm (A-6815 3-2E). FLOW DEPTH AND VELOCITY A. Off-site flow velocities determined (A-6815). 8. Off-site flow cepths determined (A-6815). C. Locations indicated for A and B above (A-6815). OTHER CONDITIONS - Discussion of any off-site con-ditions or drainage facilities that affect site drainage (A-21A5f; 8-78). 11. PROPOSED TREATMENT - Adequate treatment of off-site flows including: A. Definition of required drainage facilities IX (A-21B; B-4A). Location and configuration of facilities defined in A above (A-218; B-4A). X Quantification that off-site flow draining through site shall do so at a rate of flow velocity, quantity, and location which does not exceed the capacity on such site and downstream drainage facilities CR does so in a manner similar to that which existed before such alteration (S-4A). 12. RCW-EASEMENTS - Calineation of R.O.W. and/or Easement configuration necessary to accommodate #11 above (A-218;8-78). \* X CN-SITE CONDITIONS: SS NO NA COMMENTS 13. FLOW VOLUMES AND RATES - Calculations showing on-site undeveloped and developed flow volumes and #2 rates (B-AF). 14. FLOW CEPTH AND VELCCITY: A. Cn-site flow depth determined (A-6215).

B. Cn-site flow velocities determined (A-6215).

C. Locations indicated for A and B above (A-6815). #3 15. PROPOSED TREATMENT - Adequate treatment of on-site flows including: A. Definition of required craimage facilities

finec in A accve (A-215; 8-4F).

3. Location and configuration of facilities ca-

2. Positive discharge of porcs with required rate and outlet calculations (8-48).

Fond emergency spillway calculations (8-78)

(A-213; 5-4F).

! x

X

X

X

YES NO NA COMMENTS		
X	4.	Pond fencing required for depths greater than 18" (8-78).
x	5.	Pond landscaping provisions and commitments (A-21B).
X	6.	Pond maintenance provisions and commitments. SEE ATTACHED STANDARD COVENANT (A-218).
X	7.	Channel characteristics including flow depths and velocities (A-218).
X	8.	Storm sewer characteristics including capacity and hydraulic grade line calculations (A-218).
X *	ģ.	Hydraulic characteristics of other storm drainage facilities listed in 80-15; Sec. 2c(A-21B).
x #4	ch an of	antification that on-site flow shall dis- arge at a rate of flow, velocity, quantity, d location which does not exceed the capacity downstream drainage facilities OR does so in manner similar to that which existed before sch alteration (B-48).
x	ment o	SEMENTS - Celineation of R.O.W. and/or Ease- configuration necessary to accommodate #13 (A-218).
PLAN CRAWINGS:  SEE  YES NO NA COMMENTS		
		ING STANCARDS:
X	e. s	orth Arrow indicated (A-21A2). tandard engineering scales used - 1" = 10' for ites less than one acre; 1" = 20' for sites ess than five acres; 1" = 50' for sites great- r than five acres (A-21A2).
X		egend.
	19. STE	DESCRIPTION:
х	A	copy of zone atlas page with property cutlined A-2186).
X   #6	3. 1	egal description (A-21A6).
A   1   20	19. ENC	
		Reference Albuquerque Control Survey Vertical
x	8.	Catum Location (A-Z135e; B-7A).  Site ground elevation based on mean sea level tatum as established by the U.S. Coast and Gedetic Survey, North American catum 1929
х	C.	(A-21A5e; B-7A). Temocrary bench mark description (A-21A5e; B-7A).
		TING SITE CONCITIONS: (SEE SHEET C1)
X	] A.	Existing contours per Succivision Ordinarce A-21A5el and AMAFCA 80-15 8-7A.
x	a.	Spot elevations accountely snowing conditions

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х		ĸ.	Elevation of property line at least 1 ft. above flowline (A-218).
	x	Ļ.	Retaining wall required when a vertical grade change greater than 18" is indicated (A-218; B-7A).
		M.	Details of ponds, swales, rundowns, curb cuts, water blocks, and all other significant drainage structures with contours, cross-sections, and spot elevations when appropriate. NOTE: All proposed construction within the public right-of-way must follow the City Engineer's Special Order No. 19 (A-218; E-78).
THER:			
ee NO .	SEE NA . COMMENTS .		
		. =~	osion Control Plan (A-218; 8-78).
x		ma:	ners commitment to construct, operate, and intain drainage facilities in substantial appliance with drainage report and grading plan (218).
COMENTS:	#1. Per telephon	e conv	versation on 12/24/81, Brian Burnett indicated that
			azard information since the site is not within the
flood haz	ard boundary.		
	Volumes and Rates		Paradous z. 12 060 S.F.
	Areas:		Pervious = 12,040 S.F. mpervious = 20.562 S.F.
	Areas:	_ II	mpervious = 20.562 S.F. 32,602. S.F Pervious = 3,415 S.F.
	Areas: Undeveloped	_ II	Pervious = 29.187 S.F.  20.562 S.F.  32,602. S.F.  Pervious = 3,415 S.F.  pervious = 29.187 S.F.
	Areas: Undeveloped Developed	- II	Pervious = 20.562 S.F. 32,602 S.F  Pervious = 3,415 S.F.  pervious = 29.187 S.F. 32,602 S.F.
	Areas: Undeveloped Developed	- II	Pervious = 20.562 S.F. 32,602 S.F  Pervious = 3,415 S.F.  pervious = 29.187 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.)
a)	Areas: Undeveloped Developed	- II	Pervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F. mpervious = 29.187 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.) x 2.22 2.664
a)	Areas: Undeveloped Developed	- II	mpervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.) x 2.22 2.664 x 1.6
a)	Areas: Undeveloped Developed	_ Is	Pervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F. mpervious = 29.187 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.) x 2.22 2.664
a)	Areas: Undeveloped Developed	_ Ir	mpervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F. mpervious = 29.187 S.F. 32,602 S.F. harts = 1.2 (2 yr. 30 min.) x 2.22 2.664 x 1.6 4.26 (10 yr. 5 min.)
a) .b)	Areas: Undeveloped Developed	_ In	Pervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.)
a) .b)	Areas: Undeveloped  Developed  Rainfall Intensit  Runoff Coeficient	_ In	mpervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F. mpervious = 29.187 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.) x 2.22 2.664 x 1.6 4.26 (10 yr. 5 min.)  Bocs - 4.5 (10 yr. 5 min.)  Use 4.5
a) .b)	Nodeveloped  Developed  Rainfall Intensit  Runoff Coeficient  Quantities:	_ In	mpervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F. mpervious = 29.187 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.) x 2.22 2.664 x 1.6 4.26 (10 yr. 5 min.)  Bocs - 4.5 (10 yr. 5 min.)  Use 4.5  Pervious = 0.35 mpervious = 0.90
a) .b)	Areas: Undeveloped  Developed  Rainfall Intensit  Runoff Coeficient	_ Is	Pervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F.
a) .b)	Nodeveloped  Developed  Rainfall Intensit  Runoff Coeficient  Quantities:	_ Is	Pervious = 20.562 S.F. 32,602 S.F.  Pervious = 3,415 S.F.  mpervious = 29.187 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.)
a) .b)	Nodeveloped  Developed  Rainfall Intensit  Runoff Coeficient  Quantities:	_ Is	mpervious = 20.562 S.F.  32,602 S.F  Pervious = 3,415 S.F.  mpervious = 29.187 S.F.  32,602 S.F.  harts = 1.2 (2 yr. 30 min.)  x 2.22  2.664  x 1.6  4.26 (10 yr. 5 min.)  Bocs - 4.5 (10 yr. 5 min.)  Use 4.5  Pervious = 0.35  mpervious = 0.90  pervious = 12,040  43,560 x 4.5 x 0.35 = 0.44 cfs
a) .b)	Nodeveloped  Developed  Rainfall Intensit  Runoff Coeficient  Quantities: Undeveloped	Ir	Pervious = 3,415 S.F. 32,602 S.F.  Pervious = 3,415 S.F.  mpervious = 29,187 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.)
a) .b)	Nodeveloped  Developed  Rainfall Intensit  Runoff Coeficient  Quantities:	_ In	Pervious = 3,415 S.F.  32,602 S.F.  Pervious = 3,415 S.F.  32,602 S.F.  harts = 1.2 (2 yr. 30 min.)  x 2.22  2.664  x 1.6  4.26 (10 yr. 5 min.)  Boca - 4.5 (10 yr. 5 min.)  Use 4.5  Pervious = 0.35  mpervious = 0.90  pervious = 0.90  pervious = 12,040 43,560  x 4.5 x 0.35 = 0.44 cfs  mpervious = 20,562 43,560  x 4.5 x 0.90 = 1.91 cfs  TOTAL - 2.35 cfs  pervious = 3,415 43,560 x 4.5 x 0.35 = 0.12 cfs
a) .b)	Nodeveloped  Developed  Rainfall Intensit  Runoff Coeficient  Quantities: Undeveloped	_ In	Pervious = 3,415 S.F.  32,602 S.F.  32,602 S.F.  32,602 S.F.  harts = 1.2 (2 yr. 30 min.)
a) .b)	Nodeveloped  Developed  Rainfall Intensit  Runoff Coeficient  Quantities: Undeveloped	_ In	Pervious = 3,415 S.F.  32,602 S.F.  Pervious = 3,415 S.F.  32,602 S.F.  harts = 1.2 (2 yr. 30 min.)  x 2.22  2.664  x 1.6  4.26 (10 yr. 5 min.)  Boca - 4.5 (10 yr. 5 min.)  Use 4.5  Pervious = 0.35  mpervious = 0.90  pervious = 0.90  pervious = 12,040 43,560  x 4.5 x 0.35 = 0.44 cfs  mpervious = 20,562 43,560 x 4.5 x 0.90 = 1.91 cfs  TOTAL - 2.35 cfs  pervious = 3,415 43,560 x 4.5 x 0.35 = 0.12 cfs
a) .b)	Nodeveloped  Developed  Rainfall Intensit  Runoff Coeficient  Quantities: Undeveloped	_ In	Pervious = 3,415 S.F. 32,602 S.F.  Pervious = 3,415 S.F. 32,602 S.F.  harts = 1.2 (2 yr. 30 min.)
a)  b)  c)  d)	Rainfall Intensit  Runoff Coeficient  Quantities: Undeveloped	_ In	Pervious = 3,415 S.F.  32,602 S.F.  Pervious = 3,415 S.F.  32,602 S.F.  harts = 1.2 (2 yr. 30 min.)  x 2.22  2.664  x 1.6  4.26 (10 yr. 5 min.)  Bocs - 4.5 (10 yr. 5 min.)  Use 4.5  Pervious = 0.35  mpervious = 0.35  mpervious = 0.90  pervious = 12,040 43,560  x 4.5 x 0.35 = 0.44 cfs  mpervious = 20,562 43,560  x 4.5 x 0.90 = 1.91 cfs  TOTAL - 2.35 cfs  mervious = 3,415 43,560  x 4.5 x 0.35 = 0.12 cfs  mpervious = 29,187 43,500  x 4.5 x 0.90 = 2.71 cfs

COMMENTS: #3 Flow Depth and Velocity: Location for worst condtion on site: x 4.5 x 0.35 '= Pervious 12,315 Impervious 1.145 x 4.5 x 0.90 = 1.25 cfs Q = 1.25 cfs S = 1.00 % S = 0.1000 0.01 = 0.018 (Rough asphalt = 0.016 + 0.002 for flat slope) 8.85 TRY D = 2 1/8" A = 0.7840WP = 9.0330 $R^{2/3} = 0.0868$ 0.1960  $1.25 < \frac{1.486}{0.018} \times 0.7840 \times 0.1960 \times 0.1000$ 1.25 < 1.27 9 = V= = 1.62 fps Increase rate of flow will be 0.50 cfs as shown in Comment #2. This should not overload the capacity of downstream drainage facilities. #5 Brian Burnett indicated that 1" = 20' scale would be acceptable on this project, if the design information can be easily interpeted from the plan. #6 The owners surveyor is presently preparing a summary plot of the property. Per telephone conversation on 12/30/81, Brian Burnett indicated that we don't have to provide this information for this project.



# City of Albuquerque

#### ORALNAGE REPORT INFORMATION SHEET

TITLE Albuquerque U.S. Employees Federal Credition Albuquerque U.S	2600 Tompones N F
All of Lots 6, 7, and 19, and the	South 58,50° of lot 18 in block 3
ARCHITECTUAL & ARCHITECTUAL & ENGINEERING FURM HIBE BANK FACILITIES CORP.	CONTACT_Fred Scott
ACCA S 717 Office Parkway St Louis MO	PHONE
CMER Albuquerque U.S. Empl. Fed. C.U.	CONTACT John Thompson
616 Gold Ave., S.W. ACCRESS Albuquerque, N.M	PHONE 505-242-2821
REPRESENT SURVEYOR Leverton Engineering, Inc.	CONTACT John Leverton
5629 Paradise Blvd. N.W. ADDRESS Albuquerque, N.M.	PHONE
CATE SLEMITTED January 11, 1982	=
BY HBE BANK FACILITIES CORPORATION	

MUNICIPAL DEVELOPMENT DEPARTMENT



# City of Albuquerque P.O. 80X 1293 ALBUQUERQUE, NEW MEXICO 87103

### CONSTRUCTION PLAN REQUIREMENTS CHECKLIST

PROJECT TITLE	Albuquerque U.				
DATE January	8, 1982	zı	INE ATLAS PAGE	NO. H-19	
	of Albuquerque All of lots 6, 7 Sombra Del Mont	, and 19 and t	he South 58.50	O' of lot 18,	in Block 3 of
ADCUTTE CTITE AT			CONTACT	Fred Scott	
	17 Office Parkwa			314-567-9000	
CHNER Albuques	que U.S. Empl. F	ed. C.U. C			
ACCRESS A	buquerque, N.M.			505-242-2821	
	VEYOR <u>Leverton E</u> 5629 Paradise Bl	vd. N.W.	CNTACT	505-898-8021	
ACCRESS _	Albuquerque, N.M				
Yes No NA	See Comments 1. 2. #1 #1 #2 3.	A. Engineer B. Engineer C. Engineer the grad North arrow A. 1"=10' 3. 1"=20' (5) acr C. 1"=50'	who prepared or Surveyor or, Architect of ing plan. with standard for sites less for sites equals. for sites great with Zone Atl	signature and the Orainage who performed or Surveyor who engineering signature (1) all to but less after than five las Page No. a	cales used: acre. than five
[ X ]	4.	Location and Survey Verti	Description of	of the Albuque	irque Control
X	5.	Mark on site	•	of the Tempora	
X	5.			and accreviat	ions usec.
x	7. #4 : #5	Footpe	floor elevati r or Surveyor	on in the Floo lan by Enginee	

TOPOGRAPHY: See 'Yes No NA Comments Existing contours (per Subdivision Ordinance 8. A-21A5el and AMAFCA 80-15 Sec. 7A and spot elevations adequately showing conditions on-site and any other significant spot elevations off-sits which would increase clarity. Note: Contours and spot elevations should be ex-tended a <u>minimum</u> of 15' beyond property line. Some sites may require more off-site topographic informaticn. Proposed contours (per Subdivision Ordinance 9. A-21A5el and AMAFCA 80-15 Sec. 7A) superimposed over existing contours, adequately supporting the drainage plan (A-21All; 8-7A). 10. Proposed and existing contours or spot elevations at the property line adequately demonstrating any changes in grade. Existing or proposed (City approved) top-of-curb and flowline elevations along streets adjacent to X the site with mean sea level designation (This also applies to alleys). Finish floor elevation(s) with mean sea level designation. Required spot elevations for the standard City 13. drivecad. CONSTRUCTION DETAIL: See Yes · No · NA · Comments 14. Swales defined by arrows, spot elevations, and cross-sections. Elevation at property line at least 4" above top of X cuib. 16. Internal contributory drainage areas outlined including roof areas, 17. Location of canales, scuppers and drain pipes. Notes defining property line, asphalt sicewalks, planting areas, pording areas, and all other areas where definition would increase clarity.

X

X

19. Erosion Control Plan (during construction and for phased construction).

20. Indication of all easements and rights-of-way on, or adjacent to, the site with dimensions and purpose shown.

Retaining wall required when a vertical grace charge greater than 18" is indicated.

 Details of ponds, swales, runcowns, curn cuts, water blocks, emergency spillways, retaining walls, pond outlets, safety ferces, slopes, and all other significant crainage structures with contours, cross-sections and spot elevations when appro-priate. ALL CROSS-SECTIONS MUST BE CRAWN TO STAN-DARD ENGINEERING SCALE OR ACCEPTATELY DIMENSIONED.

TT I	23. Proposed construction within City right-of-way per City Engliseer's Special Order No. 19.
X	24. Indirection of all existing structures on or adjacent (15' minimum) to the site, such as: retaining walls, buildings, pavement, ponds, etc.
x	25. Indication of street name(s) adjacent to the site.
X I I I	26. Storm runoff routed through the drivepad or a City approved curb cut.
	27. Slopes (cut or fill) with height of less than 18", not steeper than 2:1. Slopes with height greater than 18", not steeper than 3:1.
	28. Pond(s)' 100 year water surface:
X	A. Elevation B. Outlined on the Plan
COMENTS: #11	Brian Burnett indicated that 1" = 20' scale would be acceptable on
	this property, if the design information can be easily interpeted
	from the plan.
<b>/2</b> 1	The owners surveyor is presently preparing a summary plat of the
	property.
#31	Per telephone conversation on 12/30/81, Brian Burnett indicated that
-	we don't have to provide this information since we provide a temporary
	bench mark on site which is based on local city datum
641	Brian Burnett indicated that the site is not within a flood hazard area.
<b>#51</b>	The city shall follow the standard procedure for issuing an occupancy
	permit.
<b>/6</b> 1	Brian Burnett indicated that we don't have to provide this information
	for this project.