ARMSTRONG ENGINEERING, INC.

CONSULTING ENGINEERS 2709-A PAN AMERICAN N.E. ALBUQUERQUE, NEW MEXICO 87107

(505) 345-2133 (505) 345-8463

JOHN ARMSTRONG P.E.

September 4, 1981

Mr. Fred J. Aguirre City of Albuquerque Engineering Divison PO Box 1293 Albuquerque, New Mexico 87103

Re: Coronado Plaza II & III Drainage Report (File No. H-18-D13)

Dear Fred:

Following is a discussion of the checklist items that needed clarification per our discussion September 3, 1981.

- 2. PLANNING HISTORY: I have been to city planning and studied the file on this property and believe this site plan to be in compliance with planning actions.
- 10. OTHER CONDITIONS: Off-site drainage should not adversly affect this site plan in any way. We are above the 100-year flood plain and our peak discharge should reach the storm drainage system ahead of the main peak as we are so close to the North Diversion Channel.
- 11. EROSION CONTROL PLAN: In my opinion we will not have a problem with erosion, during construction, as there are no off-site flows across the property and the flows on the property are not concentrated in one place.

John Armstrong, PE

Coronado Plaza II & III

Worst condition swele



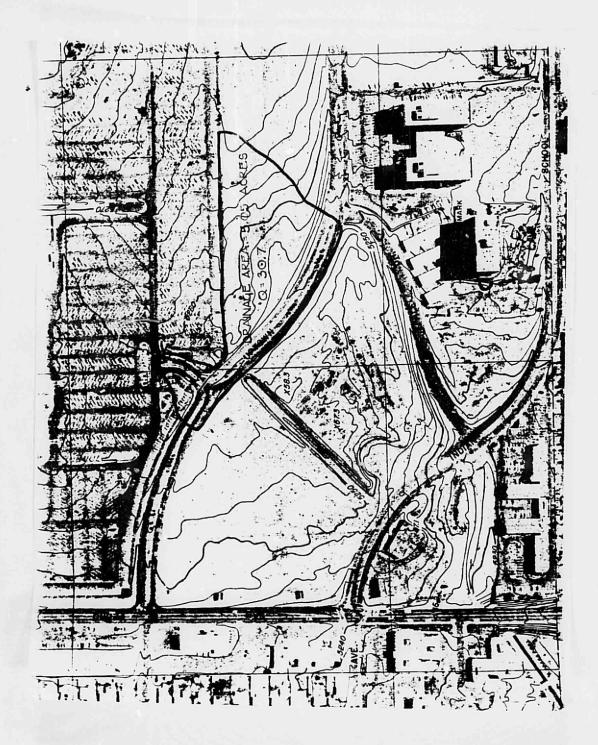
 $A = \frac{(6!)(132)}{2} + \left(\frac{6!+62}{2}\right)(11) = 6^{\frac{16}{2}} f_{\pm}^{2}$ 

P= 24 s = 00 PE/FE

R= 026 ft

( = 142 (64) (04) (64) 1/4 = 245 Cts

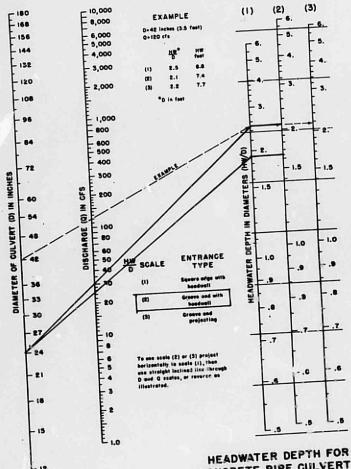
V= Q = 38 ft/ser\_



C	oronado Plaza II s' III
E	Double C' Inlet
	Analyze as a wair
	Q= Cw Lh3/2 where Cw= 3°; L= 17 fe; h=067 ft Q= 28° cfo ok our max is 24° cfs
	Double "in parking lot  Q=242cts 24 \$700 Single "in Laure dale  25 \$7800
- 1	Q=241ct 18 9 PC
	S=01 left Garding
	L=18ft S=0200 Cfs assume tree of the leading to the first of the leading to the l
	The normal depter in these 24 " PROPS is 85 inches and 85 inches
-	" East on and N= Out / heretore IT 13
	abutous that these pipes will thow under luter controls
	Using Chartz:
	Using Chart 2: HW@ Double C = (12)(2) = 38 ft
	Hw @ Single"C" = (201)(2) = 4th ft
	From this you can see that the max herdunter
-	will be below the top of carb in box's cases.

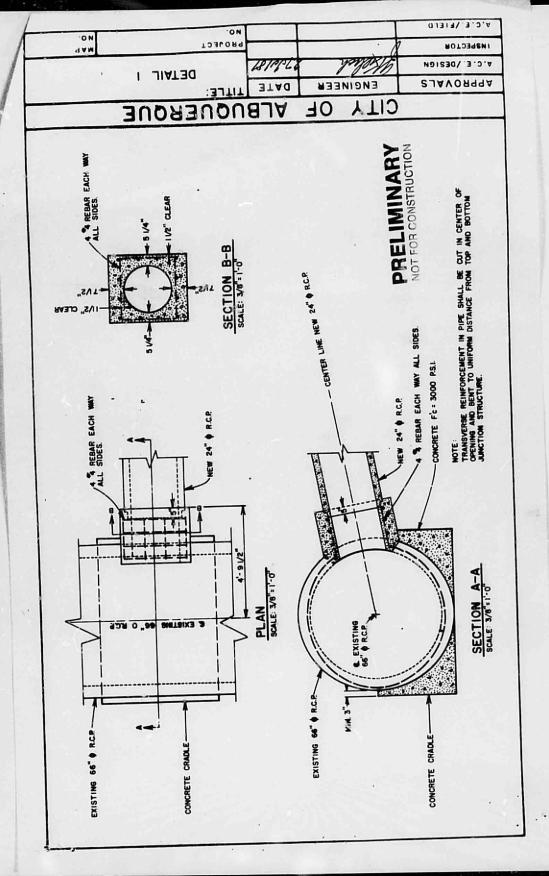
•

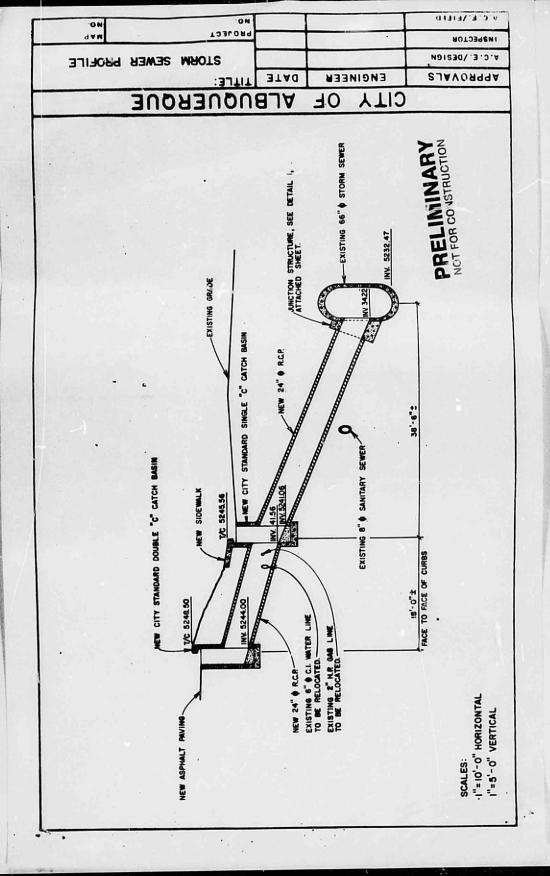
0

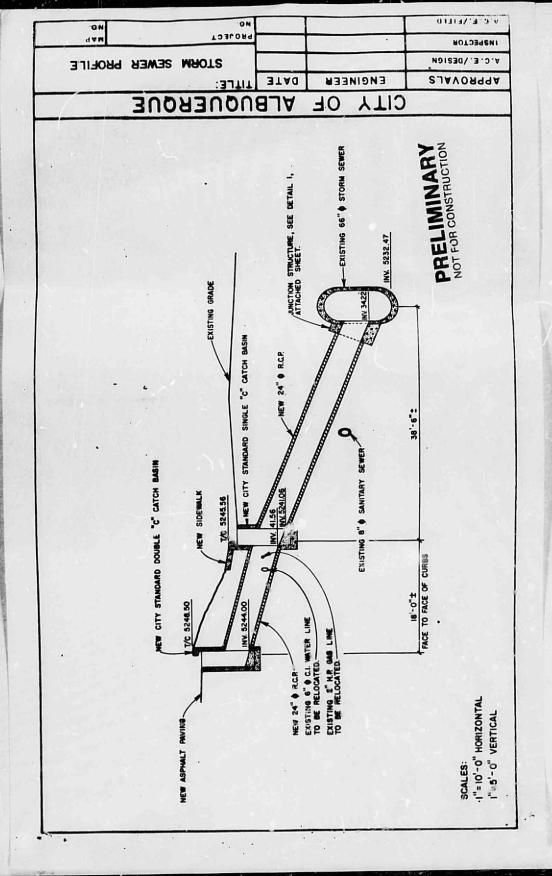


HEADWATER DEPTH FOR COMCRETE PIPE CULVERTS WITH INLET CONTROL

BUTTEAU OF PURLIC ROADS JAN 1963







DRAINAGE CALCULATIONS FOR CORONADO PLAZA II & III

CORNER OF UPTOWN AND JEANNEDALE DRIVES NE

CITY ZONE ATLAS MAP H-18

ALEUQUERQUE, NEW MEXICO



ARMSTRONG ENGINEERING INCORPORATED
2719 PAN AMERICAN FREEWAY NE, SUITE-A
ALBUQUERQUE, NEW MEXICO 8710

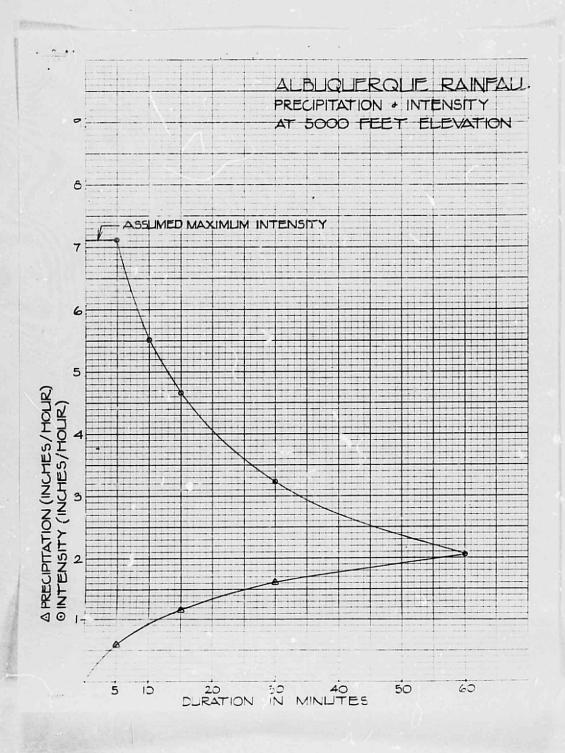
AUGUST 1981

RECEIVED

AUG 1 9 1981 .

ENGINEERING

		NOAA Atlas Z, Val IV.	
6hr - 1004	ear precipitation =	2º inches	
24hr - 100 y	ear precipitation =	2ª inches	
1hr-100 year	pricipitalian = 0#4	(31) = 2 05 in/h,	-
		(3')	
30 min -100 y	our precipitation = (02)	(14-p) = 162 in = intensity of	32
			and the second
15 mm-100 4	ex pricipitation = (657)	(16-10) = 113 in E intersity of	4 5Z
			de la
10 mm - 100	ar precipitation = (645)	(16.p) = 02 = interesty of 3	<u>5₽</u>
6 mi	100 000 il. = (020)	14.0) = 057 in = interest of 5	74
-		There) = 05 in = interesty of 3	
o illi	1 il le ti		
Pracital in	tensity to ju ar	land to be the maximum	



# 

# . MYDROLOGY, RATIONAL METHOD

. ITIDROLOGITISM
PROJECT: Corona do Plazo II : III
OCATION: Flow in parting lot west through Yerex Boilding Site
A DEAINIAGE AREA (ACRES): 12 Acros
LENCITH (FT): 470 ft
DIFFENCE IN ELEVATION (FT):
SI OPF (%): 1% + Roof Draine
A PROXIMATE VELOCITY: 3º K/sic
TIME OF CONCENTRATION (MIN.).
DRECIPITATION (IN.): 02 /~
: INTENSITY (IN./HR):
c-COEFFICIENT OF RUNOFF : 08
C CEC
$Q = ciA = \frac{(0!)(7-)(1!)^2}{(0!)(7-)(1!)^2} = \frac{7^2 - (.P.S.)}{(1!)^2}$

# MYDROLOGY, RATIONAL METHOD PROJECT: Corrido Plaza II III LOCATION: Flow in perting let east from writtent to cest tract. A-DRAINAGE AREA (ACRES): 168 Recess LENGTH (FT): 480 ft DIFFENCE IN ELEVATION (FT): \_\_\_\_\_ SLOPE (%): 190 + Rof Draine APPROXIMATE VELOCITY: 2= ft /see TIME OF CONICENTRATION (MIN.): 3<sup>1/2</sup> rain PRECIPITATION (IN.): 0<sup>1/2</sup> in i-INTENSITY (IN./HR): 2<sup>1/2</sup> in/hr c-COEFFICIENT OF RUNOFF: 0<sup>2</sup> Q=ciA = (0<sup>2</sup>X<sub>7</sub>:)(1<sup>61</sup>) = 9<sup>2</sup> C.F.S.

# MYDROLOGY, RATIONAL METHOD PROJECT: Coreredo Plaza I & TI LOCATION: Flow on packing lot of east tract through Daniele C' Inlet. A-DRAINAGE AREA (ACRES): 400 Acres LENGTH (FT): 900 ft DIFFENCE IN ELEVATION (FT):\_\_\_\_ SLOPE (%): \_\_\_1% + Roof Dein: APPROXIMATE VELOCITY: 24 ft/sec TIME OF CONCENTRATION (MIN.): 625 min PRECIPITATION (IN.): \_\_ 02 in i-INTENSITY (IN/HR): 65: /6-C-COEFFICIENT OF RUNOFF : 08 = 241 C.F.S. Q = ciA = (0 =) (1 =) (4 =)

### ARMSTRONG ENGINEERING, INC.

CONSULTING ENGINEERS

2709-A PAN AMERICAN N.E. ALBUQUERQUE, NEW MEXICO 87107 (505) 345-2133 (505) 345-8463

JOHN ARMSTRONG P.E.

September 4, 1981

Fr. Fred J. Aguirre City of Albuquerque Engineering Divison PO Box 1293 Albuquerque, New Mexico 87103

Re: Coronado Plaza II & III Drainage Report (File No. H-18-D13)

### Dear Fred:

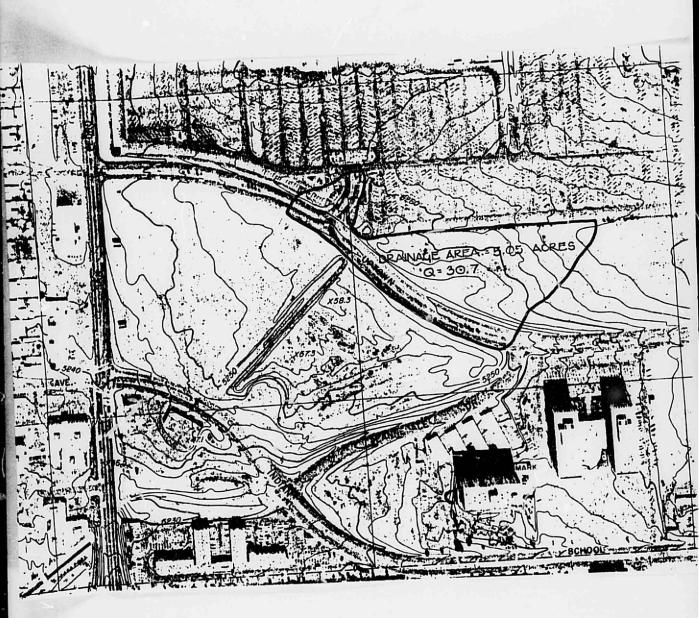
Following is a discussion of the checklist items that needed clarification per our discussion September 3, 1981.

2. PLANNING HISTORY: I have been to city planning and studied the file on this property and believe this site plan to be in compliance with planning actions.

10. OTHER CONDITIONS: Off-site drainage should not adversly affect this site plan in any way. We are above the 100-year flood plain and our peak discharge should reach the storm drainage system ahead of the main peak as we are so close to the North Diversion Channel.

11. EROSION CONTROL PLAN: In my opinion we will not have a problem with erosion, during construction, as there are no off-site flows across the property and the flows on the property are not concentrated in one place.

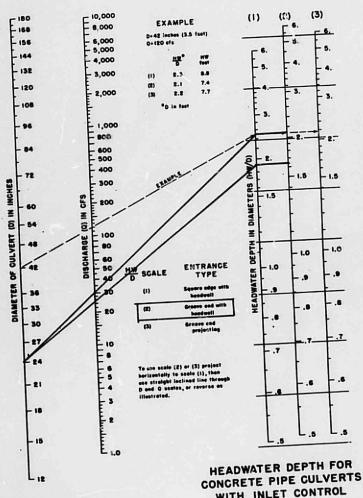
John Armstrong, PE



Corer	do Plaza	$\mathcal{I}  otin \mathcal{I}$		
Daub	le C' Inlet			
A	Inalyze asa u	Jair		
	00113/2	where Con= 3= ;	1=17 fe ;	h = 067 Pt
, Do	ublición parking lat	Single " in Jeanned	hle	
_#	Q= 241cts 24 700	24 % REP		assume free discharge
	S=011 le/ft  L=18ft	S=0300 L=34fe	30°C/3	66 PREP
		L = 34fe	4-6	1
	buiens that Using Chart 2 HW @ Down	b/c C = (1-)(3	1 How under )= 38 Pt	in let control.
	Hwe s	ight" = (207)(2)	) = 4tft	1 Junter
	Fo. His	you can see the	fearb in bet	Cases

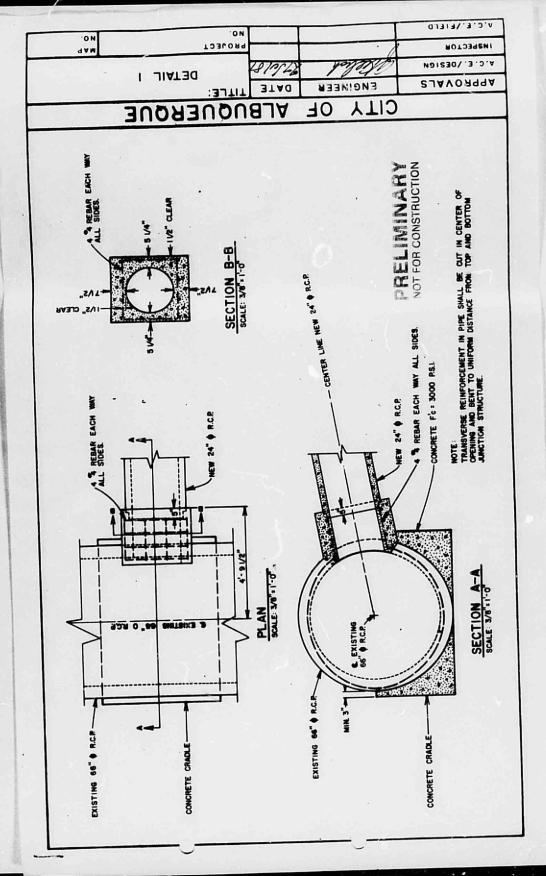
C

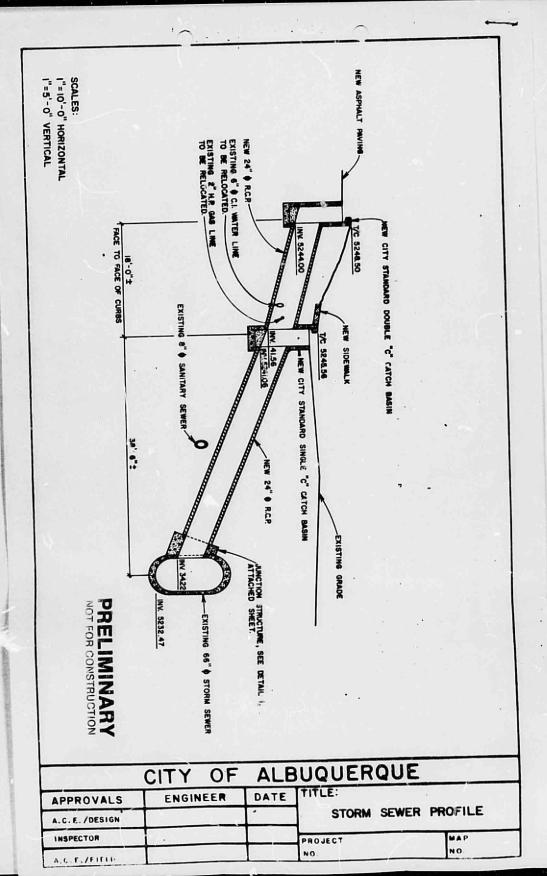
0



WITH INLET CONTROL

TEAU OF PUBLIC BOADS JAM 1963





### EASEMENT

STATE OF NEW MEXICO \$ \$ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF BERNALILLO \$

WHEREAS, The Travelers Insurance Company ("Travelers") is the owner of that certain property described on Exhibit A attached hereto and made a part hereof (the "Travelers Property"), and William T. Criswell and Sharon L. Criswell (collectively called "Criswell") are the owners of that certain property described on Exhibit B attached hereto and made a part hereof (the "Criswell Property");

WHEREAS, Travelers desires to grant an easement across the Travelers Property permitting surface drainage from the Criswell Property to flow across certain portions of the Travelers Property as hereinafter provided;

NOW. TPEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by all parties, Travelers has Granted, Sold and Conveyed, and by these presents does Grant, Sell and Convey to the present owner and any future owner of the Criswell Property an easement across and along that certain portion of the Travelers Property which is hereinafter described ("Easement Property") for the purpose of permitting surface drainage to flow from the Criswell Property across the Easement Property to the existing drain inlet in the southwest corner of the Travelers Property. The easement hereby granted shall be an unobstructed flow easement permitting a maximum Q of 9.5 cubic feet per second to flow across the Easement Property.

The center line of the Easement Property shall be located as follows: beginning at the southeast corner of the Travelers Property, proceed north 0 degrees 55 minutes 30 seconds east

along the eastern boundary line of the Travelers Property 88 feet to a point. The center line of the Easement Property shall be a line running from said point in a southwestern direction along the traffic aisles to the drain inlet at the southwest corner of the Travelers Property. The Easement Property shall include all property within the Travelers Property located on each side of said center line which is necessary for the purposes for which this easement is granted, including all parking areas located south of the office building on the Travelers Property but excluding the existing office building, sidewalks and landscaped areas.

Travelers reserves the right to maintain the Easement Property as a paved area and to permit the parking of vehicles within any portion of the Easement Property. Travelers agrees to keep the Easement Property free of any obstructions other than vehicles which would block the flow of water from the Criswell Property across the Easement Property.

TO HAVE AND TO HOLD the above described easement, together with all and singular the rights and appurtenances thereto in anywise belonging unto the owner of the Criswell Property, its successors and assigns forever, and Travelers, its successors and assigns, shall warrant and forever, and Travelers, its successors and assigns, shall warrant and forever defend all and singular the said easement unto the owner of the Criswell Property, its successors and assigns, against any person whomsoever lawfully claiming or to claim the same, or any part thereof.

EXECUTE	day	THE TRAVELERS	INSURANCE	COMPANY
		Вут		

STATE OF NEW MEXICO S
BEFORE ME, the undersigned authority in and for said
county and state, on this day personally appeared
, known to me to be the person and officer
whose name is subscribed to the foregoing instrument, and
acknowledged to me that the same was the act of the said The
mravelers Insurance Company, a corporation, and that he exe-
cuted the same as the act of such corporation for the purposes
and consideration therein expressed, and in the capacity
therein stated.
GIVEN UNDER MY HAND AND SEAL OF OFFICE this day of
, 1981.

Notary Public in and for Bernalillo County, New Mexico Exhibit A

### LEGAL DESCRIPTION

Xerox Building

TRACT 2-A, BELLAMAR OFFICE ADDITION, as the same is shown and designated on the Summary Plat, Tract 2, Bellamah Office Addition, Albuquerque, New Mexico, now comprising Tracts 2-A and 2-B, filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1980.

### EXHIBIT B

TRACT 2-B-2, as the same is shown and designated on the plat of Tracts 2-B-1, 2-B-2 and 2-B-3, BELLAMAH OFFICE ADDITION, Albuquerque, Bernalillo County, New Mexico (being a Replat of Tract 2-B), filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1981.

### EASEMENT

STATE OF NEW MEXICO S KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, William T. Criswell and Sharon L. Criswell (collectively called Criswell") are the owners of that certain property described on Exhibit A attached hereto and made a part hereof ("Tract A"), and Criswell is also the owner of that certain property described on Exhibit B attached hereto and made a part hereof ("Tract B");

WHEREAS, Criswell desires to grant an easement across Tract A permitting surface drainage from Tract B to flow across certain portions of Tract A as hereinafter provided;

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable con ideration, the receipt and sufficiency of which is hereby acknowledged, Criswell has Granted, Sold and Conveyed, and by these presents does Grant, Sell and Convey to the present owner and any future owner of Tract B an easement across and along that certain portion of Tract A which is hereinafter described ("Easement Property") for the purpose of permitting surface drainage to flow from Tract B across the Easement Property to a new drain inlet to be installed in the eastern boundary line of Tract A. The easement hereby granted shall be an unobstructed flow easement permitting a maximum Q of 12.1 cubic feet per second to flow across the Easement Property.

The center line of the Easement Property shall be located as follows: beginning at the southwest corner of Tract A, proceed north 54 degrees 35 minutes 50 seconds east along the western boundary line of Tract A 32 feet to a point. The center line of the Easement Property shall be a line running from said point in an easterly direction along the traffic aisles and

ending at a drain inlet to be constructed on the eastern property line of Tract A. The Easement Property shall include all property within Tract A located on each side of said center line which is necessary for the purposes for which this easement is granted, including all parking areas located south of the office building to be constructed on Tract A but excluding said office building, sidewalks and landscaped areas.

Criswell and any future owner of Tract A shall have the right to maintain the Easement Property as a paved area and to permit the parking of vehicles within any portion of the Easement Property. Criswell and any future owner of Tract A shall keep the Easement Property free of any obstructions other than vehicles which would block the flow of water from Tract B across the Easement Property.

TO HAVE AND TO HOLD the above described easement, together with all and singular the rights and appurtenances thereto in anywise belonging unto the owner of Tract B, its successors and assigns forever, and the owner of Tract A, its successors and assigns, shall warrant and forever, defend all and singular the said easement unto the owner of Tract B, its successors and assigns, against any person whomsoever lawfully claiming or to claim the same, or any part thereof.

EXECUTED	this	day of	, 1981.	
		William T.	Criswell	
		Sharon L.	Criswell	

. 1981.

STATE OF TEXAS COUNTY OF DALLAS

BEFORE ME, the undersigned authority in and for said county and state, on this day personally appeared William T. Criswell and Sharon L. Criswell, known to me to be the persons

whose names are subscribed to the foregoing instrument, and acknowledged to me that they executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this \_\_\_\_\_ day of \_\_\_\_\_, 1981.

Notary Public in and for the State of Texas

### EXHIBIT A

### LEGAL DESCRIPTION

TRACT 2-B-3, as the same is shown on the plat of Tracts 2-B-1, 2-B-2 and 2-B-3, BELLAMAH OFFICE ADDITION, Albuquerque, Bernalillo County, New Mexico (being a Replat of Tract 2-B), filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1981.

### EXHIBIT B

TRACT 2-B-2, as the same is shown and designated on the plat of Tracts 2-B-1, 2-B-2 and 2-B-3, BELLAMAH OFFICE ADDITION, Albuquerque, Bernalillo County, New Mexico (being a Replat of Tract 2-B), filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1981.



## City of . Ilbuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 31, 1981

Mr. John Armstrong, P.E. Armstrong & Weaver 2709 Pan American Freeway N E., Suite A Albuquerque, New Mexico 37107

Re: CORONADO PLAZA II & III DRAINAGE REPORT (FILE NO. H-18-D13)

Dear John:

Attached are my comments for the referenced drainage report. Please address the items checked "No" and any comments made on the last page of each checklist.

If you have any questions concerning my comments, please feel free to call me.

Sincerely,

Fred J. Aguirre, P.E.

Civil Engineer

FJA/fs

cc: Drainag File Reading File

Enclosure

DRAINAGE CALCULATIONS FOR CORONADO PLAZA II & III

CORNER OF UPTOWN AND JEANNEDALE DRIVES NE

CITY ZONE ATLAS MAP H-18

ALEUQUERQUE, NEW MEXICO

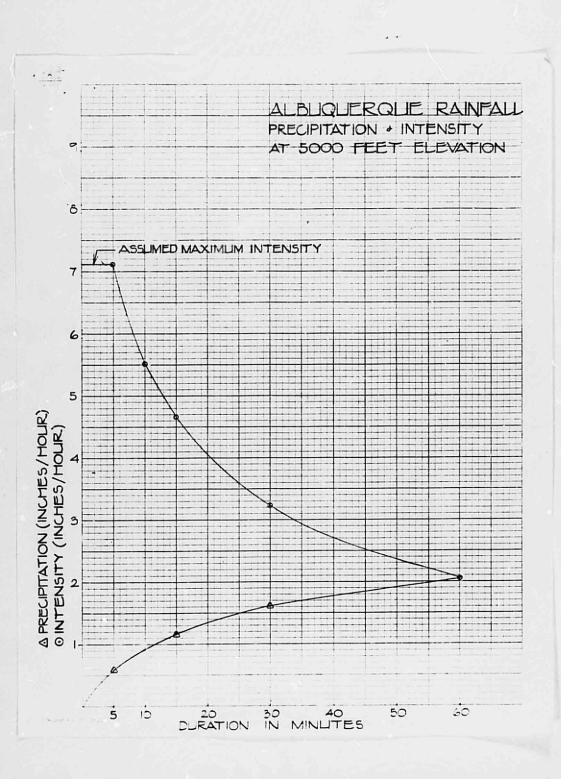


ARMSTRONG ENGINEERING INCORPORATED 2719 PAN AMERICAN FREEWAY NE, SUITE-A ALEUQUERQUE, NEW MEXICO 87107

AUGUST 1981



Albuguerque Ra			
6hr - 100 year	precipitation =	2ª inches	
6hr - 100 year	precipitation =	2ª inches	
the management	. L. Lim = 0 494 +	0755 (24)2 =	205 in/h.
1 hr - 100 year price		(a*)	
30 min - 100 year f	recipitation = (01)	(1hr-p)= /= 1n	= intensity of 323
The state of the s	ild = 657)	(1h-e)= 12 in	= intensity of 4 62
15 mm- 100 que f			E saturally at 4 52
10 min - 100 g ar 1	percipitation = (645)	(1hr.p) = 092 in	industry of 50
	11 Cal		· interstant 74
5 mm - 100 year 1	arscipitation = (02)	(he:P) = U=1-	e introduct 7"
The sain int	sity for the a	Level to be to	maximan
Pracital intens	ity for the a	م.	
The constitution			



# HYDROLOGY, RATIONAL METHOD

PROJECT: Corosa Plaza II & II
LOCATION: In Uptown Blud. @ intersection w/ Jeanne dole Drive NE.
A-DRAINAGE AREA (ACRES): 5 05 Acres
LENGTH (FT): 850 ft
DIFFENCE IN ELEVATION (FT): 10 ft
SLOPE (%): 12%
APPROXIMATE VELOCITY: 25 ft/sec
TIME OF CONCENTRATION (MIN.): 507 min
PRECIPITATION (IN.): 000 in
i-INTENSITY (IN/HR): 625 in/hr
c-COEFFICIENT OF RUNOFF : 020
$O = c.i\Delta = (6^{90})(6^{15})(5^{05})$ = $30^{7}$ CF.S.

# . HYDROLOGY, RATIONAL METHOD

PROJECT: Corona do Piro II FIII
LOCATION: Flow in gorking let west through Yerox Bailding Site
A-DRAINAGE AREA (ACRES): 13 Am
LENGTH (FT): 470 fe
DIFFENCE IN ELEVATION (FT):
SLOPE (%): 1% + Roof Dia.
APPROXIMATE VELOCITY: 33 Pe/500
TIME OF CONCENTRATION (MIN.): 3+ min
PRECIPITATION (IN.): o # in
i-INTENSITY (IN/HR): 2- in/A
c-COEFFICIENT OF RUNOFF : 08
$Q = ciA = \frac{(o^2)(7^2)(1^{\frac{12}{2}})}{(o^2)(1^{\frac{12}{2}})} = \frac{7^{\frac{5}{2}}}{(o^2)^{\frac{5}{2}}} C.F.S.$

# HYDROLOGY, RATIONAL METHOD

PROJECT: Corredo Plaça II ÉTIL
_OCATION: Flow in parting lot east from westfreet to cost tract.
A-DRAINAGE AREA (ACRES): 168 For:
LENGTH (FT): 480 ft
DIFFENCE IN ELEVATION (FT):
SLOPE (%): 190 + Roof Drains
APPROXIMATE VELOCITY: 22 fe/su
TIME OF CONCENTRATION (MIN.): 34 nim
PRECIPITATION (IN.): 045 in
i-INTENSITY (IN/HR): 2-1-/hr
C-COEFFICIENT OF RUNOFF : 02
05 CEC
$O = c_1 \dot{A} = \frac{(o_2)(\gamma_1)(o_1)}{(o_1)(o_2)} = \frac{g_2}{(o_1)(o_2)} C.F.S.$

# PROJECT: Corredo Placa II & III LOCATION: Flow in parting (at clearly trace through Dample & Jule). A-DRAINAGE AREA (ACRES): 4th Acres LENGTH (FT): 900 ft DIFFENCE IN ELEVATION (FT): SLOPE (%): 1% + Roof Dain: APPROXIMATE VELOCITY: 2th ft/Sec TIME OF CONCENTRATION (MIN.): 625 min PRECIPITATION (IN.): 02 in i-INTENSITY (IN./HR): 6th in /ftc c-COEFFICIENT OF RUNOFF: 05

Q = ciA = (02)(66)(469)

\_\_\_ = \_\_\_\_\_\_\_24<sup>2</sup>\_\_\_C.F.S.

# ARMSTRONG ENGINEERING, INC.

CONSULTING ENGINEERS 2709-A PAN AMERICAN N.E. ALBUQUERQUE, NEW MEXICO 87107

(505) 345-2133 (505) 345-8463

JOHN ARMSTRONG P.E.

September 4, 1981

Fr. Fred J. Aguirre City of Albuquerque Engineering Divison PO Box 1293 Albuquerque, New Mexico 87103

Re: Coronado Plaza II & III Drainage Report (File No. H-18-D13)

Dear Fred:

Following is a discussion of the checklist items that needed clarification per our discussion September 3, 1981.

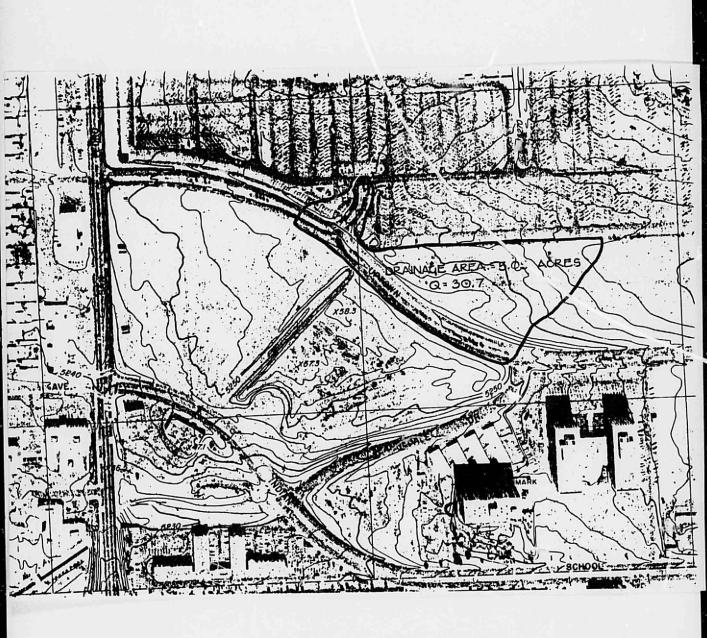
2. PLANNING HISTORY: I have been to city planning and studied the file on this property and believe this site plan to be in compliance with planning actions.

10. OTHER CONDITIONS: Off-site drainage should not adversly affect this site plan in any way. We are above the 100-year flood plain and our peak discharge should reach the storm drainage system ahead of the main peak as we are so close to the North Diversion Channel.

11. EROSION CONTROL PLAN: In my opinion we will not have a problem with erosion, during construction, as there are no off-site flows across the property and the flows on the property are not concentrated in one place.

John Armstrong, PE

Coronado Plaza II & III Worst condition Swale A= (61)(132) + 5 = 0º PE/FE P= 24 12 ft R= 026 ft Q = 10 (6 1 ) (0 1 ) (0 1 ) 1 = 24 5 Cts V= Q = 38 ft/

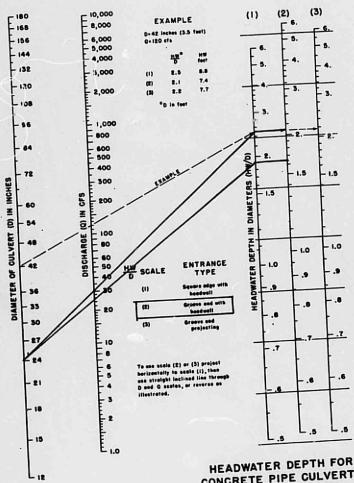


	enedo Plaza				
Do	uble C' Inlet				
	Analyze asa	weir			
	Q= Cw Lh3/2	1 0	- 32 / = 17	R : 4 :	067 ft
	W=Cw Lh	Where Su	: 017	ale	
	Q= 28° ch	ak our n	15 24-1		
(	Double'c' in parking lot		Vancadale		
	Double c'in parking lot  Q= 247 cts /28 8 86	Single C In	Jane Care		
Lentes.	S= off le/fe	24	P= 30°ch		assume free discharge
	R= 18ft	S:	0300 CF3		2 66 8 RCP
		.l.	0300 /Fe		7-60 P
			und On Ot	σΞ incles	and 85 inches
<u> </u>	The normal depths	in these	24 9 KCP8 /8	7 (	:1:.
		1 0.	:d N= 0	1 MERCEDE	
	obvious that	these pipes	will How	under in	et Control.
7					
	Hwe Da	16'C = (1	2)(2)= 38 5	4	
	1/20 8	1"0" - 69	7)(2) = 414	lt .	
	HW (0 S	4/60- (8	, , , ,		
-	From this u		u L V	4.	Junter
	F	on con se	e that the	- May	
	From This y		A /	. 1 // /	7

# CHART 2

(

0



CONCRETE PIPE CULVERTS WITH INLET CONTROL

BUREAU OF PUBLIC ROADS JAM 1963



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August, 1981

RE: HYDROLOGY CHECKLISTS AND PROCEDURES

TO: ENGINEERS, ARCHITECTS, DEVELOPERS

The following enclosures are submitted to you for your use and comments. These checklists include minor revisions made to the initial forms, which were distributed on June 9, 1981. Additional modifications will be made to these forms based on our experience and your comments, which we will be soliciting for the next several months.

The enclosed packet contains the following items:

# A. DRAINAGE REPORT CHECKLIST

This checklist should be used when preparing drainage reports. Only under special circumstances will the items listed be waived. For all projects, a pre-design conference is strongly suggested to discuss site conditions, alternative solutions, and recommendations by the Hydrology Section. Several important items on the checklist are discussed below:

- Engineer Cartifies This provision allows a registered professional angineer to certify that drainage concepts and criteria approved in the drainage report have been substantially met upon completion of the construction phase. If this alternative is chosen, the City of Albuquerque will generally not inspect the site before issuing a Certificate of Occupancy.
- Special attention should be given to Item 11 PROPOSED TREATMENT OF OFF-SITE FLOWS. In the past, revisions to drainage concepts oftentimes is a result of inadequate identification and treatment of off-site flows.
- 3. Several questions have arisen concerning proposed site grading. The proposed contouring scheme should be drawn to requirements outlined in the City Subdivision Ordinance A-21A5el and AMAFCA 80-15, Sec. 7A, and should adequately support the proposed drainage plan. Spot elevations should be included as supporting information.
- 4. An Erosion Control Plan is required for all schemes which would result in the occurrence of wind and water erosion during the period between initial grading and final completion. Subdivisions are a good example of where an erosion plan might be implemented. Suggestions and guidelines for such plans can be obtained from this office upon request.

# B. DRAINAGE REPORT INFORMATION SHEET

The sheet should be filled out and submitted with the drainage report.

## C. CONSTRUCTION PLAN CHECKLIST

This checklist outlines requirements which must be satisfied for approval of the construction plans.

#### D. SPECIAL ORDER NO. 19

The document outlines the method of obtaining approval for construction of private storm drainage facilities within the City right-of-way.

# E. DRAINAGE COVENANT

The City of Albuquerque is now requiring that the owner of a parcel be required to construct, maintain and operate storm drainage facilities substantially in compliance with the approved drainage concepts. The referenced document should be used for agreements made by the owner to the City of Albuquerque. It should be pointed out that future drainage improvements may provide a means for the property owner to revise drainage concepts and recapture land committed to drainage facilities.

Your comments on these documents will be greatly appreciated.

Very truly yours

For Richard S. Heller City Engineer

CME/RSH/fs 7761A



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

# DRAINAGE REPORT REQUIREMENTS CHECKLIST

	PROJECT TITLE CORONADO	72	29, 11 + 111	H-18-0817
	DATE 8-3/-8/		ZONE ATLA	IS PAGE NO. #1-18-2
	REVIEWER FORD J. AGUIN	RE		
	LEGAL ADDRESS TRACT 2-	B-2	+ Z-B -3 Becom	OFFICE AddITION
*	ENGINEERING FIRM PROMITED.	-6 +	Wenven CONT	TACT John Anniteory
	ADDRESS 2700 Pan	Amen	can Ferency a. [ F	PHONE 345-0111 .
	OWNER		CONTACT_	
	ADDF_3S			PHONE
	ARCHITECT/SURVEYOR PLACY	+ A	CONTACT_	
	ADDRESS			PHONE
	have been satisfied. Ple	val o	of the construction pertinent sections	anted when the following items oval of the drainage report plans (See Construction Plan of the City of Albuquerque Sub-O-15 (labelled A and B respectment.
	GENERAL:			
	YES NO NA COMMENTS			
drews			tory (A-21B; B-7).	Planning and zoning action his-
		٠,	with signature and o	CATION - Professional's stamp date (B-4F and B-7B):
SATISFICE	×		D Footbook or Surv	epared the Drainage Report. veyor who performed the survey. ect, or Surveyor who prepared 1.
RELAXE		4.	FLOOD HAZARD - Delin Flood Hazard Boundar	neation of site on pertinent ry Map (A-21B; 8-7B).
		5.	WATERSHED SOILS - De buting off-site water Soil Survey Maps (A-	elineation of site and contri- ersheds on SCS Bernalillo County -21B; B-7B).
		ć.	within 15 ft. from closer than 15 ft. required setback on 18" deep or less, with street ROW but no street For pand deep	tigation report for ponding planned or existing structure or from the property line minus the adjacent property. For ponds ater may be impounded adjacent ot closer than 10' from pavrper than 18", water shall not ' to the pavement (A-210;8-78).

# OFF-SITE CONDITIONS:

SEE YES - NO - NA - COMMENTS :		
014	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-6Bl5; B-7B).
	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 B-2E).
	9.	FLOW DEPTH AND VELOCITY
V V		A. Off-site flow velocities determined (A-6815). B. Off-site flow depths determined (A-6815). C. Locations indicated for A and B above (A-6815).
	10.	OTHER CONDITIONS - Discussion of any off-site conditions or drainage facilities that affect site drainage (A-21A5f; B-7B).
discus!	11.	$\ensuremath{PRCPCSED}$ TREATMENT – Adequate treatment of off-site flows including:
		A. Definition of required drainage facilities
		(A-21B; B-4A).  B. Location and configuration of facilities defined in A above (A-21B; B-4A).
		C. 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 OR does so in a manner similar to that which existed before such alteration (B-4A).
	12.	. ROW-EASEMENTS - Delineation of R.O.W. and/or Easement configuration necessary to accommodate #11 above (A-21B;B-7B).
CN-SITE CONDITIONS:		
SEE NO NA COMMENTS		
V	13	<ul> <li>FLOW VOLUMES AND RATES - Calculations showing on-site undeveloped and developed flow volumes and rates (B-4F).</li> </ul>
SATISFIED	14	. FLOW DEPTH AND VELOCITY:
		A. On-site flow velocities determined (A-6815). B. On-site flow velocities determined (A-6815). C. Locations indicated for A and B above (A-6815).
6x	15	. PROPOSED TREATMENT - Adequate treatment of on-site flows including:
		<ul> <li>Definition of required drainage facilities (A-21B; B-4F).</li> </ul>
~		<ol> <li>Location and configuration of facilities de- fined in A above (A-21B; B-4F).</li> </ol>
	Ι.	<ol> <li>Pond volume calculations (B-4B).</li> </ol>
		<ol><li>Positive discharge of ponds with required rate and outlet calculations (B-4B).</li></ol>
		3. Pond emergency spillway calculations (8-78)

YES NO NA COMMENTS		
	4. Pond fencing required for depth than 18" (B-78).	
	<ol> <li>Pond landscaping provisions a (A-21B).</li> </ol>	and commitments
	<ol> <li>Pond maintenance provisions ments. SEE ATTACHED STANDARI (A-21B).</li> </ol>	0 00.2.
3	<ol> <li>Channel characteristics incl depths and velocities (A-21B</li> </ol>	uding flow ).
1 3.0 4	<ol> <li>Storm sewer characteristics city and hydraulic grade lin (A-21B).</li> </ol>	ie Caroarde
AAA	<ol> <li>Hydraulic characteristics of drainage facilities listed in 2c(A-2lB).</li> </ol>	ar 00-27
	C. Quantification that on-site flor charge at a rate of flow, veloc and location which does not exc of downstream drainage faciliti a manner similar to that which such alteration (B-48).	eed the capacity
	<ul> <li>ROW-EASEMENTS - Delineation of R.O. ment configuration necessary to acc above (A-21B).</li> </ul>	W. and/or Ease- commodate #13
PLAN DRAWING:		
SEE		
YES NO NA COMMENTS		
	7. DRAFTING STANDARDS:	
7	A. North Arrow indicated (A-21A2) B. Standard engineering scales us sites less than one acre; l" = less than five acres; l" = 50' er than five acres (A-21A2).	on for sites
	C. Legend.	
,NA	8. SITE DESCRIPTION:	
5	A. Copy of zone atlas page with   (A-21A6). B. Legal description (A-21A6).	property outlined
	19. BENCH MARKS:	Samuel Vertical
	A. Reference Albuquerque Control Datum Location (A-21A5e; B-7A B. Site ground elevation based of datum as established by the U detic Survey, North American	n mean sea level
	(A-21A3e; B-7A). C. Temporary bench mark descript B-7A).	
	20. EXISTING SITE CONDITIONS:	
V . 5	A. Existing contours per Subdiv A-21A5el and AMAFCA 80-15 B-	ision Ordinance 7A.
	B. Spot elevations adequately s	howing conditions

SEE YES NO NA COMMENTS		
YES - NO - NA - COMPENTS -	c.	Contours and spot elevations extending a <u>mini</u> - mum of 15' beyond property line (A-21A5el; B-7A).
	D.	Identification of all existing structures located on-site or on adjacent property (15' minimum) with particular attention to retaining and garden walls (A-21B; B-7B).
	E.	Identification of all existing drainage facilities located on-site or on adjacent property (A-21B; B-7B).
	F.	Pertinent elevation(s) of structures and facil- ities defined in D and E above with Mean Sea Lovel designation (A-218; B-7A).
	G.	Indication of all existing masements and right-of-ways on, or adjacent to the site with dimensions and purpose shown (A-21A5b & c).
	н.	Existing City top of curb and flow line elevations with Mean Sea Level designation (A-21B; B-7B).
	21. PRO	POSED SITE CONDITIONS:
	À.	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).
	В.	Indication of all proposed easements and right-of-ways on or adjacent to the site with dimensions and purpose shown (A-21A5G & C).
~pK	¢.	Proposed street and alley grades when site abuts a dedicated unpaved street or alley. These grades are available, at no charge, from the City Engineer's Office. An advance request will expedite your project. NOTE: At present there is a 3 month wait to have the City Engineer supply grades. However, to expedite the plans, the City Engineer will review grades provided by an engineer (A-21A7).
	p.	Internal contributory drainage areas, including roof areas, outlined on plan (A-21B; B-7B).
	E.	Proposed (City approved) top of curb elevations with Mean Sea Level designation (A-21B; B-7B).
	ŗ.	Flow lines defined by arrows and spot elevations with Mean Sea Level designation (A-21B; B-7B).
COK COK	G.	100 year pund depth determined and cutlined on the plan (A-21B;8-7B).
	н.	Notes defining property line, asphalt side- walks, planting areas, ponding areas, and all other areas whose definition would increase clarity (A-21A5d & g; B-7A).
	Ţ.	Finish building floor elevation(s) with Mean Sea Level designation (A-21All; B-7A).
	j	. Slopes (cut or fill) with height of less than 18", not steeper then 2:1. Slopes with height greater than 18", not steeper than 3:1 (A-21B; B-5).

[		K. Elevation of flowline (A-	f property line at least 1 ft. above -21B).
(		L. Retaining was change great B-7A).	all required when a vertical grade ter than 18" is indicated (A-218;
	1 Statutien	water block age structu and spot el All propose	ponds, swales, rundowns, curb cuts, s, and all other significant drain- res with contours, cross-sections, evations when appropriate. NOTE: d construction within the public y must follow the City Engineer's er No. 19 (A-21B; B-7B).
	OTHER: DISCUSS		
	YES NO NA COMMENTS		
		22. Erosion Control	Plan (A-21B; B-7B).
		I-baia duning	ent to construct, operate, and age facilities in substantial a drainage report and grading plan
	COMMENTS:		
J	(1) NOT APPLICABLE THIS	me .	
J			- THE DRING-TOPO MAP
	GENERATING THE	2.7 ef1.	
	(5) THE EXITING CONTO	AS ARE DIPPICULT	70 R(A:)
1			SWALF TOWN 1710- TO ACCOMODATE
	THE FLOW RATES B		
			SNOWING THE CAPACITY OF THE
	PROPOSED STORM		-\
Inch!	(5) Do you set A w	EA POR AM EROJIO	- CONTROL PLAN DURING CONSTRUCTION
			40
	Note: ALSO, comply	WITH COMMENT	MAREY BY CHUER ENTERING
	NOTE: ALSO, COMPLY		ace plan svamines.
		an a part	
	•		1 10 10 10 10 10 10 10 10 10 10 10 10 10

		Ķ.	Elevation of property line at least 1 ft. above flowline (A-21B).
		Ļ.	Retaining wall required when a vertical grade change greater than 18" is indicated (A-21B; B-7A).
	OTHER: phsecuss	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-21B; B-7B).
	OTHER: DISSEE		
	YES NO NA COMMENTS		osion Control Plan (A-21B; B-7B).
		23. Own	ners commitment to construct, operate, and intain drainage facilities in substantial mpliance with drainage report and grading plan 218).
	COMMENTS:		
J	(1) NOT APPLICABLE THIS	TIME	Topo Mar
/			DARINAGE ON THE DETHO-TOPO MAP
	GENERATING THE		
	(5) THE EXISTING CONTE	DURS A	ec Disticult to Krao
/			THE WORST SWALF TOWN 1710- TO ACCOMODATE
	THE FLOW RATES		CULATIONS SHOWING THE CAPACITY OF THE
	PROPERT STERM		
	PROPERTO STORM		AN EROJION CONTROL PLAN DURING CONSTRUCTION
discuss	(5) Us you set A	JEEN HON	AD ENDINE COMMENT
			a#0
	Name ALER COMPAN	WITH	COMMENTS MADE VBY CHUR ESTERING
			since DARINAGE PLAN EVA MITTED.
	-		
	. The second		



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

# DRAINAGE REPORT INFORMATION SHEET

TITLE		
ZONE ATLAS PAGE NO.	CITY ADDRESS _	
LEGAL ADDRESS		
ENGINEERING FIRM		CONTACT
		CONTACT
OWNER		PHONE
ARCHITECT/SURVEYOR		CUNTACT
ADDRESS		PHONE
DATE SUBMITTED		_
ВУ		_

MUNICIPAL DEVELOPMENT DEPARTMENT



# City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICC 87103

# CONSTRUCTION PLAN REQUIREMENTS CHECKLIST

PROJECT TITLE	
DATE	ZONE ATLAS PAGE NO
REVIEWER	
LEGAL ADDRESS	
ENGINEERING FIRM	CONTACT
ADDRESS	PHONE
OWNER	CONTACT
ADDRESS	PHONE
ARCHITECT/SURVEYOR	CONTACT
ADDRESS	
Yes No NA Comments	<ol> <li>Professional's Stamp with signature and date:         <ul> <li>A. Engineer who prepared the Drainage Report</li> <li>B. Engineer or Surveyor who performed survey</li> <li>C. Engineer, Architect or Surveyor who prepared the grading plan.</li> </ul> </li> <li>North arrow with standard engineering scales used:         <ul> <li>A. 1"=10' for sites less than one (1) acre.</li> <li>B. 1"=20' for sites equal to but less than five (5) acres.</li> <li>C. 1"=50' for sites greater than five (5) acres</li> </ul> </li> </ol>
lwa	3. Vicinity map with Zone Atlas Page No. and legal description.  4. Location and Description of the Albuquerque Control Survey Vertical Datum.
	5. Location and Description of the Temporary Bench Mark on site.
	6. Legend indicating symbols and abbreviations used.
	7. Certification of: A. Finith floor elevation in the Flood Zone by Engineer or Surveyor. B. Drainage & Grading Plan by Engineer.

See Yes No NA Comments Existing contours (per Subdivision Ordinance 2 8. 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 ex-tended a minimum of 15' beyond property line. Some sites may require more off-size topographic information. Proposed contours (per Subdivision Ordinance 9. A-21A5el and AMAFCA 80-15 Sec. 7A) superimposed over existing contours, adequately supporting the drainage plan (A-21A11; B-7A). 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 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 drivepad. CONSTRUCTION DETAIL: See Yes · No · NA · Comments Swales defined by arrows, spot elevations, and cross-sections. Elevation at property line at least 4" above top of curb. Internal contributory drainage areas outlined, including roof areas, Location of canales, scuppers and drain pipes. Notes defining property line, as halt sidewalks, planting areas, ponding areas, and all other areas where definition would increase clarity. LX 19. Erosion Control Plan (during construction and for 1 phased construction). Honis 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 grade change greater than 18" is indicated. 22. Details of ponds, swales, rundowns, curb cuts, water blocks, emergency spillways, retaining walls, pond outlets, safety fences, slopes, and all other significant drainage structures with contours, NA cross-sections and spot elevations when appropriate. ALL CROSS-SECTIONS MUST BE DRAWN TO STAN-DARD ENGINEERING SCALE OR ADEQUATELY DIMENSIONED.

7 4	
	23. Proposed construction within City right-of-way per City Engineer's Special Order No. 19.
	<ol> <li>Indication of all existing structures on or adjacent (15' minimum) to the site, such as: retaining walls, buildings, pavement, ponds, etc.</li> </ol>
	25. Indication of street name(s) adjacent to the site.
	<ol> <li>Storm runoff routed through the drivepad or a City approved curb cut.</li> </ol>
	<ol> <li>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.</li> </ol>
	28. Pond(s)' 100 year water surface: A. Elevation B. Outlined on the Plan
COMMENTS:	
(1) Owner's optio	TO MANE C-9 INCEA CERTIFY
(2) THE EXUTINE CO	, Sive and parties
(3) Do you see	A NEED AUG AT ENDSION CONTAIN PEN DURING EDUTAL  DURADACHMENT ARRESTMENT SIGNED BY THE OWNER FOR  COPY OF  STORM DAMIN CURNECTION. V ENCROSINGEN AGREEMENT ATTAIN

# CITY OF ALBUQUERQUE, NEW MEXICO CITY ENGINEER'S OFFICE

June 12, 1981

SPECIAL ORDER NO. 19

SUBJECT: PROCEDURES FOR CONSTRUCTION OF PRIVATE STORM DRAIN IMPROVEMENTS WITHIN CITY RIGHT-OF-WAY

In order to expedite the Building plan approval process and to assist us in our record keeping, all Commercial Building Plans\* (includes additions) involving construction within City right-of-way must adhere to the following procedures (we strongly recommend a pre-design conference prior to any significant effort on your part being undertaken):

- A. Submit a design or reference the City standard to be used on the attached format to the A.C.E./Design Section for review and approval. The aforementioned must be prepared by a N.M. Registered Engineer. Three prints of the approved design will be provided for distribution as outlined below.
- B. Include with the design or City approved standard a scaled site plan with the zone atlas page, address and north arrow. Indicate on the site plan the location(s) of the proposed construction in City right-of-way.
- C. Attach a copy of the approved design to each set of the City Building Plans being processed. No building permit will be issued if these copies are not included with the plans.
- D. Prior to construction, contractor must obtain the necessary permits from the City Engineer's Office. A copy of the approved design must accompany the request for a permit.

  E. Upon receipt of Field Inspector's approval of the construction, the
- E. Upon receipt of Field Inspector's approval of the construction, the A.C.E./Field will sign the original on file with A.C.E. Design Section. A copy of the as-built will be forwarded by the A.C.E./Field to the Hydrology Section.
- F. If the construction does not pass inspection and a revised design is required, then steps A through E must be reinstated. No Certificate of Occupancy will be issued unless the Contractor passes the final inspection.

\*All multi-residential dwellings with the exception of duplexes.

NOTE: Maintenance of all the improvements described herein shall be the responsibility of the owner.

EFFECTIVE DATE: JULY 1, 1981

55-61/2 mines

Richard S. Heller City Engineer

# TO CONTRACTORS NOTICE New Mexico Standard Specifications for Public Works Construction-1979 Edition will be referred to hereon as the "Standard Specification". All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with "Contract Documents for City-Wide Utilities and Cash Paving No. \_\_\_\_\_ and the Standard Specification". Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities. 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 or surveyor so that the conflict can be resolved with a minimum amount of delay. THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED All utilities and utility service lines shall be installed prior to paving. Bac'tfill compaction shall be according to specified street use. Tack coat requirements shall be determined by the City Engineer. Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed. If curb is depressed for a drivepad, the drivepad shall be constructed prior to acceptance of curb and gutter. All storm drainage facilities shall be completed prior to final acceptance. The requestor or developer shall be responsible for repair or replacement of all curb and cutter or sidewalk damaged after approval by the City Engineer of work completed by the Contractor. APPROVED FOR CONSTRUCTION APPROVED FOR RECORD DRAWINGS DATE CITY ENGINEER ASST. CITY ENGINER, FIELD ALBUQUERQUE OF CIT DATE ENGINEER APPROVALS A.C.E. DESIGN MAP NO. WATER RESOURCES PROJECT SHEET NO. CITY ENGINEER

# INSTRUCTIONS FOR DRAINAGE COVENANT

- 1. The proper and correct title of the Owner should be inserted such as ABC Corporation or the Ace Limited Partnership, etc.
- 2. It is absolutely essential that the correct legal description be inserted. If it is in metes and bounds and there is not enough room to get it in the space provided, simply type in "See Attached Legal Description" and attach it on another page.
- 3. A brief description of the facilities should be given or if there is some type of drainage report, it can be referred to and adopted by reference and attached in part or whole to the Covenant. If there is some type of letter conditioning or modifying the drainage report issued by the City, this should also be referred to and attached.
- The time limit for compliance will have to be inserted and will depend, of course, on the nature of the construction or maintenance required.
- 5. The signing of the instrument by the correct parties is absolutely essential. If it is a corporation, the corporate acknowledgement must be used, and the signature must be by the president of the corporation. If someone else wants to sign on behalf of the corporation, we must have a copy under the seal of the corporate secretary of the minutes of the Board of Directors authorizing that person to bind the corporation. If it is a limited partnership, the general partner must sign. If it is a regular partnership, any partner can sign. If the property is owned by husband and wife, they should both sign.
- 6. The reason for the notarization requirement is that this document must be filed with the County Clerk and cannot be so filed unless it is so acknowledged. The only protection that the City has in the event of the transfer of ownership is if the document is filed with the County Clerk and, therefore, it puts any subsequent purchaser on notice and obligates him to the same provisions.

It is to our best interest and, therefore, our responsibility to see that this document is filed with the County Clerk. The cost of such recording should be paid by the applicant. The cost to the City of such recording is \$1.50 for the first page and \$.50 for each succeeding page. This is a discounted fee to the City, and if an individual records the document, it would cost more.

An original and at least 2 copies should be prepared and signed. The original is recorded and returned. It then should be filed with the City Clerk. One copy goes to the Owner and the other is retained in the department file. This copy should contain the County Clerk's recording information. You may wish to have other copies as may be necessary.

If you have any questions or peculiar problems, please consult the Legal Department.

## DRAINAGE COVENANT

	THIS COVENA	NT made this	day of		,
1981, by	and between (City) and	the City of	Albuquerque,	a municipal cor-	-
(Owner, w	hich term i	ncludes succ	essors and ass	signs.)	T

## RECITAL

The Owner is owner of certain real property located in Albuquerque, New Mexico, (the Property) and more particularly described as follows:

That pursuant to City ordinances, regulations, and other applicable laws, the Owner is required to install and/or maintain certain drainage facilities on the Property, and the parties wish to provide for an agreement as to the obligations and responsibilities for same.

#### DESCRIPTION OF FACILITIES

The following facilities are to be constructed and/or maintained by the owner:

#### CONSTRUCTION OF DRAINAGE FACILITIES

The Cwner shall construct the drainage facilities in accordance with standards, plans, and specifications prescribed and approved by the City.

#### MAINTENANCE OF FACILITIES

The Owner shall, at his cost in accordance with the standards, plans, and specifications prescribed by the City, maintain said drainage facility. The City shall have the right to enter periodically upon the Property to inspect the drainage facility.

#### FAILURE TO COMPLY AND LIEN

In the event that the Owner shall fail to construct the drainage facility in accordance with standards, plans, and specifications prescribed and approved by the City or fail to adequately maintain said facilities, the City shall give the Owner notice in writing to construct, correct, or maintain said

days, the City may enter upon said property to perform days, the City may enter upon said property to perform the necessary construction or maintenance. The cost of the City's performing such construction or maintenance shall be paid by the Owner. In the event the Owner fails to pay said cost within thirty (30) days after being billed for same, the City may file a lien against the Property.

# LIABILITY

The City shall not be liable for any damages to the Owner resulting from its construction, modification, or maintenance of said facilities.

#### NOTICE

The written notice provided for herein shall be accomplished by mailing same to:

The Owner may change said address by giving written notice, certified mail, return receipt requested, to the City Engineer, City Hall, at 505 Marquette Street, Albuquerque, New Mexico, 87103.

# INDEMNIFICATION AND HOLD HARMLESS

The Owner agrees to defend, indemnify, and hold harm-less, the City, its officials, agents and employees from and against any and all claims, actions, suits, or proceedings of any kind brought against said parties for or on account of any many kind brought against said parties for or on account of any arter arising from the drainage facility provided for herein or the Owner's failure to construct, maintain, or modify the drainage facility under this Covenant.

# COVENANT RUNNING WITH THE PROPERTY

The obligation of the Owner set forth herein shall be binding upon the Owner, his heirs, and assigns, and the property of the Owner as described herein and will run with said property until released by the City.

	CWNEP.
	Ву:
	Title:
REVIEWED BY THE LEGAL DEPARTMENT:	CITY OF ALBUQUERQUE
Assistant City Attorney	Chief Administrative Officer

# ACKNOWLEDGEMENTS

STATE OF NEW MEXICO ) ) ss.	
COUNTY OF BERNALILLO )	
The foregoing instrument was a day of,  (Name of Officer)	cknowledged before me this 1981, by
(Name of Officer)	(Title)
(Name of Corporation) corporation, on behalf of said cor	(State of Incorporation)
	Notary Public
dy Commission Expires:	
STATE OF NEW MEXICO )	
COUNTY OF BERNALILLO )	
The foregoing instrument was aday of,	acknowledged before me this 1981, by
	ging Partner or Partners)
on behalf of(Name of a partnership.	f Partnership)
	Notary Public
My Commission Expires:	
STATE OF NEW MEXICO ) ) ss.	
COUNTY OF BERNALILLO )	
The foregoing instrument was	thisday of,
1981.	
	Notary Public
My Commission Expires:	
STATE OF NEW MEXICO )	
COUNTY OF BERNALILLO )	
The foregoing instrument was	acknowledged before me this
day of	he City of Albuquerque, munici- d corporation.
	Notary Public
My Commission Expires:	

# ENCROACHMENT CONTRACTS

The encroachment contract is necessary in order to allow a private citizen to build a wall or fence on City property. Since it is a contract involving real property, it requires the notarized signatures of both husband and wife and is recorded with the County Clerk. The following is a step-by-step procedure for processing the Encroachment Contract:

- 1. Two copies of a sketch on 8 1/2" X 14" paper are required indicating:
  - a. Address and Legal Description of the property.
  - b. Location of curb.
    - c. Location of Property Line.
    - d. Location and width of sidewalk.
    - e. Location, height and width of wall or fence.
    - f. Location of water meter.
- 2. The sketch becomes a part of the Agreement and the owner must obtain the approval from the following:
  - City Engineer (4th floor, City Hall)
  - 2. Traffic Engineer (3rd floor, City Hall)
  - . 3. Zoning Administrator (123 Central N.W.)
    - 4. Code Enforcement (123 Central N.W.)

This is accomplished by first getting two copies of the sketch stamped in City Engineers Office, then getting the approval of the other offices listed above.

- 3. Signature of owner(s) (husband and wife, when applicable) must be obtained on the contract and notarized. State Law requires BCTH husband and wife to sign in the presence of notary.
- 4. Upon notarization of signatures, contracts with sketches are then returned to City Engineer's Office for further processing which usually takes about three days. This further processing includes recording the completed contract with the Bernalillo County Clerk. The County charges a standard fee of \$3.00 (3 sheets) for this service which must be paid to the City Engineers Office prior to final processing. The City Engineers office will advise by phone when the processing is completed.

# REAL PROPERTY ENCROACHMENT AGREEMENT

THIS AGREEMENT made this day of , 19
by and between the City of Albuquerque, a New Mexico municipal corporation, (City) and (Mexico municipal)

# RECITAL

The User is the owner of certain real property located at in Albuquerque, New Mexico, and more particularly described as follows:

The City is the owner of certain real property, easement, or public right-of-way adjoining or abouting the above described property of the user. The User wishes to encrease upon the City's property by constructing an improvement thereon or assured already encreached upon the City property as follows:

 A sketch of the proposed or existing improvement is attached hereto and made a part of this Agreement.

The City is agreeable to the encroachment of said improvement provided that the User comply with the provisions and covenants contained herein.

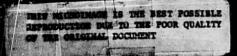
NOW THEREFORE, in consideration of the muteal covenants contained herein, it is agreed by and between the City and User that the User may construct and/or maintain, at his own expense, the improvement described herein.

# RESPONSIBILITY

The User shall be responsible for the construction and/or maintenance of said improvement and it shall conform to all laws and ordinances and administrative regulations applicable thereto. Said improvement shall not constitute a hazard to the health or safety of the general public and shall administrative with the City's use of the property.

# INDEMNIFICATION AND HOLD HARMLESS

The User shall agree to defend, indemnity, and local actives, the City, its officials, agents and employees from and



against any and all claims, actions, suits or proceedings of any kind brought against said parties for or on account of any matter arising from the encroachment by the User or the User's failure to maintain, modify, or remove the encroachment under this Agreement.

## REMOVAL

The User shall remove, modify, maintain, or cause same to be done and cause the premises to be returned to its original condition within after receipt of written Notice from the City. Notice shall be considered to have been received within six days after the notice is mailed if there is no actual evidence of receipt. In the event the User shall fail to comply with the Notice after the receipt of same, the City may undertake the project, at the expense of the User, and enter upon the property of the User as may be necessary to do so. The City shall assess the charge for same and any other expenses and damages arising therefrom to the User and file a lien therefor on the real property of the User.

#### LIABILITY

The City shall not be liable for any damages to the User's property or the improvement that may result from the maintenance, removal or any modification of the improvement.

#### NOTICE

V.25

.

The written notice provided for herein shall be accomplished by mailing same to:

The User may change said address by giving written notice, certified mail, return receipt requested, to the City Engineer, at 400 Marquette, N.E., Albuquerque, New Mexico 87102.

# COVENANT RUNNING WITH THE PROPERTY

The obligation of the User set forth herein shall be binding upon the User, his heirs, and assigns, and the property of the User as described herein and will run with said property until released by the City.

	USER
	ву:
	ritle:
REVIEWED BY THE LEGAL DEPARTMENT:	СТТУ ОР АБВООНЕКОВЕ
Assistant City Attorney	Chief Administrative Officer

# ACKNOWLEDGEMENTS

STATE OF NEW MEXICO )
COUNTY OF BERNALILLO )
The foregoing instrument was acknowledged before me this day of, 1981, by
** (Name of Officer) (Title)
(Mame of Corporation) (State of Incorporation)
corporation, on behalf of said corporation.
• Notary Public
My Commission expires:
STATE OF NEW MEXICO )
) ss. COUNTY OF BERNALILLO )
The foregoing instrument was acknowledged before me this day of . 19 , by
(Name Of Acknowledging Partner of Partners)
On behalf of(Name of Partnership)
a partnership.
My Commission Expires:
STATE OF NEW MEXICO ) ) SS. COUNTY OF BERNALILLO )
The foregoing instrument was acknowledged before me by day of, on thisday of, 1981.
Notary Public
My Commission Expires:
STATE OF NEW MEXICO )
COUNTY OF BERNALILLO )
The foregoing instrument was acknowledged before as on this day of
Chief Administrative Officer of the City of Alburper pre, wind ripal corporation, on behalf of said corporation.
Hotary Public
My Commission Expires:



Keadery

# City of . Ilbuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR David Rusk

May 18, 1979

Mr. Thomas Mann Goldberg-Mann & Associates 911 Pennsylvania N.E. Albuquerque, NM 87110

Ref: Coronado Professional Plaza

Dear Mr. Mann:

418-017

I have reviewed the drainage plan for the referenced project and my comments are as follows:

existing topography indicates that the property provides a natural ponding area. This ponding area can not be obliterated without affecting adjacent properties. It is therefore requested that an equivalent ponding volume be supplied in the parking lot to compensate for the ponding volume removed by the construction of the building.

Secondly, you recommend that a curb will be constructed on the east side of the property to convey the offside runoff onto Redlands. Without concurrence of the adjacent property owner it is not allowed to divert the natural surface flow.

It is further requested that the northern half of Redlands Rd., adjacent to this parcel, be paved in accordance with the requirements of the City Er \_neer. You need therefore to secure from the Office of the City Engineer, Design Section, the proposed grades for Redlands Rd. and insure that the grading of the site is consistent with said grades.

In regard to the ponding provisions, Pond A and Pond B, it is unclear how the ponds are to be constructed. Please supply better details.

If you need additional information, please do not hesitate to call my office.

Very truly yours,

Bruno Conegliano Assistant City Engineer-Hydrology

BC/ms cc - Richard Heller, City Engineer Rich Leonard, AMAFCA Drainage file

AN EQUAL OPPORTUNITY EMPLOYER

# DRAINAGE COVENANT

THIS COVENANT made this \_\_\_\_\_\_\_, and between the City of Albuquerque, a municipal corporation, (City) and \_\_\_\_\_\_ William T. Criswell and Sharon L. Criswell (Owner, which term includes successors and assigns.)

#### RECITAL

The Owner is owner of certain real property located at 6200 Uptown N.E. in Albuquerque, New Mexico, (the Property) and more particularly described as follows:

Tract 2-B-3, as the same is shown on the plat of Tracts 2-B-1, 2-B-2 and 2-B-3, BELLAMAR OFFICE ADDITION, Albuquerque, Bernalillo County, New Mexico (being a replat of Tract 2-B), filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1981.

That pursuant to City ordinances, regulations, and other applicable laws, the Owner is required to install and/or maintain certain drainage facilities on the Property, and the parties wish to provide for an agreement as to the obligations and responsibilities for same.

# DESCRIPTION OF FACILITIES

The following facilities are to be constructed and/or maintained by the owner:

Drainage inlets with connection to existing storm sewer in Jeannedale Drive specifically shown on sheet A4 construction drawings dated June 5, 1.981 prepared by Warden/Evans/Hill, Architects-Planners, Inc. and Rupley & Associates, Inc. attached hereto as Exhibit "A". More specifically an inlet structure on site and one off site (in curb on west side of Jeannedale Drive) all to connect to existing 72 inch storm sewer CONSTRUCTION OF DRAINAGE FACILITIES in Jeannedale Drive.

The Owner shall construct the drainage facilities in accordance with standards, plans, and specifications prescribed and approved by the City.

# MAINTENANCE OF FACILITIES

The Owner shall, at his cost in accordance with the standards, plans, and specifications prescribed by the City, maintain said drainage facility. The City shall have the right to enter periodically upon the Property to inspect the drainage facility.

## FAILURE TO COMPLY AND LIEN

In the event that the Owner shall fail to construct the drainage facility in accordance with standards, plans, and specifications prescribed and approved by the City or fail to adequately maintain said facilities, the City shall give the Owner notice in writing to construct, correct, or maintain said

facilities, and if the Owner fails to comply therewith within 180 days, the City may enter upon said property to perform the necessary construction or maintenance. The cost of the City's performing such construction or maintenance shall be paid by the Owner. In the event the Owner fails to pay said cost within thirty (30) days after being billed for same, the City may file a lien against the Property.

## LIABILITY

The City shall not be liable for any damages to the Owner resulting from its construction, modification, or maintenance of said facilities.

## NOTICE

The written notice provided for herein shall be accomplished by mailing same to:

William T. Criswell 5501 LBJ Freeway Swite 900 Dallas, Texas 75240

The Owner may change said address by giving written notice, certified mail, return receipt requested, to the City Engineer, City Hall, at 505 Marquette Street, Albuquerque, New Mexico, 87103.

# INDEMNIFICATION AND HOLD HARMLESS

The Owner agrees to defend, indemnify, and hold harm-less, the City, its officials, agents and employees from and against any and all claims, actions, suits, or proceedings of any kind brought against said parties for or on account of any matter agising from the drainage facility provided for herein or the Owner's failure to construct, maintain, or modify the drainage facility under this Covenant.

# COVENANT RUNNING WITH THE PROPERTY

The obligation of the Owner set forth herein shall be binding upon the Owner, his heirs, and assigns, and the property of the Owner as described herein and will run with said property until released by the City.

REVIEWED BY HYDROLOGY SECTION

CITY ENGINEER'S OFFICE

REVIEWED BY THE LEGAL

DEPARTMENT:

Assistant City Attorney

OWNER

CITY OF ALBUQUERQUE

Chief Administrative Officer

# ACKNOWLEDGEMENTS

STATE OF NEW MEXICO ) ss.	
COUNTY OF BERNALILLO )	
The foregoing instrument wa	s acknowledged before me this _, 1981, by
(Name of Officer)	(Title)
(Name of Orricer)  (Name of Corporation)  corporation, on behalf of said	(State of Incorporation)
	Notary Public
My Commission Expires:	
STATE OF NEW MEXICO ) 35. COUNTY OF BERNALILLO )	
day of	as acknowledged before me this, 1981, by
(Name of Acknow	Leading Laterer or Laterer
on behalf of(Nam a partnership.	e of Partnership)
	Notary Public
My Commission Expires:	
STATE OF TEXAS	
COUNTY OF DALLAS	
The foregoing instrument william T. Criswell and Sharon L. Cr	as acknowledged before me by isofilthis /4/5 day of September
1981.	Molli & M. Aulfe Notary Public
My Co. mostion Expires:	
STATE OF NEW MEXICO )	
COUNTY OF BERNALILLO )	
The foregoing instrument	was acknowledged before me this
day of Chief Administrative Officer pal corporation, on behalf of	, 1981, by
	Notary Public
My Commission Expires:	
MY COMMISSION EXPIRED	

81 54351

23 RIO GRANDE TITLE # 18733

## EASEMENT

STATE OF NEW MEXICO )
) ss. KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, The Travelers Insurance Company, a Connecticut Corporation
("Travelers") is the owner of that certain property described on Exhibit A
attached hereto and made a part hereof (the "Travelers Property"), and William
T. Criswell and Sharon L. Criswell (collectively called "Criswell") are the
owners of that certain property described on Exhibit B attached hereto and
made a part hereof (the "Criswell Property");

WHEREAS, Travelers desires to grant an easement across the Travelers

Property permitting surface drainage from the Criswell Property to flow across
certain portions of the Travelers Property as hereinafter provided;

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by all parties, Travelers has Granted, Sold and Conveyed, and by these presents does Grant, Sell and Convey to the present owner and any future owner of the Criswell Property an easement across and along that certain portion of the Travelers Property which is hereinafter described ("Easement Property") for the purpose of permitting natural surface drainage to flow from the Criswell Property across the Easement Property to the existing drain inlet in the southwest corner of the Travelers Property. The easement hereby granted shall be an unobstructed flow easement permitting a maximum Q of 9.5 cubic feet per second to flow across the Easement Property.

The center line of the Easement Property shall be located as follows: beginning at the southeast corner of the Travelers Property, proceed north 0 degrees 55 minutes 30 seconds east along the eastern boundary line of the Travelers Property 88 feet to a point. The center line of the Easement Property shall be a line running from said point in a southwestern direction along the traffic aisles to the drain inlet at the southwest corner of the Travelers Property. The Easement Property shall include all property within the Travelers Property located on each side of said center line which is necessary for the purposes for which this easement is granted, including all parking areas located south of the office building on the Travelers Property but excluding the existing office building, sidewalks and landscaped areas.

Travelers reserves the right to maintain the Easement Property as a paved area and to permit the parking of vehicles within any portion of the Easement Property. Travelers agrees to keep the Easement Property free of any obstructions other than vehicles which would block the flow of water from the Criswell Property across the Easement Property.

TO HAVE AND TO HOLD the above described easement, together with all and singular the rights and appurtenances thereto in anywise belonging unto the owner of the Criswell Property, its successors and assigns forever, and Travelers, its successors and assigns, shall warrant and forever, and Travelers, its successors and assigns, shall warrant and forever defend all and singular the said easement unto the owner of the Criswell Property, its successors and assigns, against any person whomsoever lawfully claiming or to claim the same, or any part thereof.

EXECUTED this 4th day of September , 1981.

THE TRAVELERS INSURANCE COMPANY, a

Connecticut Corporation

By: Composition (J. Thomas Montgomery)

STATE OF CONNECTICUT

COUNTY OF HARTFORD

BEFORE ME, the undersigned authority in and for said county and state, on this day personally appeared J. Thomas Montgomery Vice President and officer whose name is subscribed the foregoing instrument, and acknowledged to me that the same was the end of the said The Travelers Insurance Company, a Connecticut corporation, and that he executed the same as the act of such corporation for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this Jith day of Sentember 1981.

> Notary Public in and for Hartford County (Patricia H. Csaszar)

My Commission Expires March 31st, 1984

# EXHIBIT A

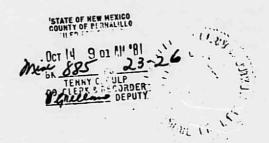
# LEGAL DESCRIPTION

Xerox Building

TRACT 2-A, BELLAMAN OFFICE ADDITION, as the same is shown and designated on the Summary Plat, Tract 2, Bellaman Office Addition, Aluquerque, New Mexico, now comprising Tracts 2-A and 2-B, filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1980.

# EXHIBIT B

TRACT 2-B-2, as the same is shown and designated on the plat of Tracts 2-B-1, 2-B-2 and 2-B-3, BELLAMAH OFFICE ADDITION, Albuquerque, Bernalillo County, New Mexico (being a Replat of Tract 2-B), filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1981.



# EASEMENT

STATE OF NEW MEXICO S KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, William T. Criswell and Sharon L. Criswell (collectively called Criswell") are the owners of that certain property described on Exhibit A attached hereto and made a part hereof ("Tract A"), and Criswell is also the owner of that certain property described on Exhibit B attached hereto and made a part hereof ("Tract B");

WHEREAS, Criswell desires to grant an easement across Tract A permitting surface drainage from Tract B to flow across certain portions of Tract A as hereinafter provided;

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Criswell has Granted, Sold and Conveyed, and by these presents does Grant, Sell and Convey to the present owner and any future owner of Tract B an easement across and along that certain portion of Tract A which is hereinafter described ("Easement Property") for the purpose of permitting surface drainage to flow from Tract B across the Easement Property to a new drain inlet to be installed in the eastern boundary line of Tract A. The easement hereby granted shall be an unobstructed flow easement permitting a maximum Q of 12.1 cubic feet per second to flow across the Easement Property.

The center line of the Easement Property shall be located as follows: beginning at the southwest corner of Tract A, proceed north 54 degrees 35 minutes 50 seconds east along the western boundary line of Tract A 32 feet to a point. The center line of the Easement Property shall be a line running from said point in an easterly direction along the traffic aisles and

ending at a drain inlet to be constructed on the eastern property line of Tract A. The Easement Property shall include all property within Tract A located on each side of said center line which is necessary for the purposes for which this easement is granted, including all parking areas located south of the office building to be constructed on Tract A but excluding said office building, sidewalks and landscaped areas.

Criswell and any future owner of Tract A shall have the right to maintain the Easement Property as a paved area and to permit the parking of vehicles within any portion of the Easement Property. Criswell and any future owner of Tract A shall keep the Easement Property free of any obstructions other than vehicles which would block the flow of water from Tract B across the Easement Property.

TO HAVE AND TO HOLD the above described easement, together with all and singular the rights and appurtenances thereto in anywise belonging unto the owner of Tract B, its successors and assigns forever, and the owner of Tract A, its successors and assigns, shall warrant and forever, defend all and singular the said easement unto the owner of Tract B, its successors and assigns, against any person whomsoever lawfully claiming or to claim the same, or any part thereof.

EXECUTED this 14 xt day of SEPTEMBER , 1981.

William T. Criswell Sharon I Commill

STATE OF TEXAS COUNTY OF DALLAS

BEFORE ME, the undersigned authority in and for said county and state, on this day personally appeared William T. Criswell and Sharon L. Criswell, known to me to be the persons whose names are subscribed to the foregoing instrument, and acknowledged to me that they executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 14th day of

Notary Public in and for the State of Texas

4/21/85

# EXHIBIT A

# LEGAL DESCRIPTION

TRACT 2-B-3, as the same is shown on the plat of Tracts 2-B-1, 2-B-2 and 2-B-3, BELLAMAH OFFICE ADDITION, Albuquerque, Bernalillo County, New Mexico (being a Replat of Tract 2-B), filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1981.

# EXHIBIT B

1.4.1

TRACT 2-B-2, as the same is shown and designated on the plat of Tracts 2-B-1, 2-B-2 and 2-B-3, BELLAMAH OFFICE ADDITION, Albuquerque, Bernalillo County, New Mexico (being a Replat of Tract 2-B), filed in the office of the County Clerk of Bernalillo County, New Mexico, on the 20th day of May, 1981.

OCT 14 9 02 AM 'BI

OCT 14 9 02 AM 'BI

TENNY C. TULE

TENNY C. TULE

DEPUTY

OCT 14 9 02 AM 'BI

OCT 14 9