



P. O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103
PUBLIC WORKS DEPARTMENT

August 21, 1995

CERTIFICATE OF COMPLETION AND ACCEPTANCE

Doug Collister
High Desert Investment Corp.
13000 Academy Road N.E.
Albuquerque, NM 87111

RE: PROJECT NO. 4809.86 HIGH DESERT PHASE 1-B-1 MAP NO. E-23 &

F-23

Dear Mr. Collister:

This is to certify that the City of Albuquerque accepts Project No. 4809.86 as being completed according to approved plans and construction specifications. Please be advised this certificate of completion and acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

Storm improvements along Academy Boulevard and High Desert Street to include drainage basins, manholes, drop inlets and reinforced concrete pipe. Also paving and curb and gutter on High Desert Street south of Elena Gallegos Place.

The contractor's correction period began the date of this letter and is effective for a period of one (1) year.

Sincerely

"Rick Roybal, P.E.

City Engineer,

Engineering Group

Public Works Department

Sincerely

Russell B. Givler, P.E.

Chief Construction Engineer,

Engineering Group

Public Works Department 2 5 1995

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P. O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103 PUBLIC WORKS DEPARTMENT

July 27, 1995

CERTIFICATE OF COMPLETION AND ACCEPTANCE

Doug Collister
High Desert Investment Corp.
6400 Wyoming Blvd. NE
Albuquerque, NM 87109

RE: PROJECT NO. 4809.85 HIGH DESERT PHASE 1-D MAP NO. E-23 &

F-23

Dear Mr. Collister:

This is to certify that the City of Albuquerque accepts Project No. 4809.85 as being completed according to approved plans and construction specifications. Please be advised this certificate of completion and acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

Placed 112 linear feet of 36" RCP, 5460 linear feet of 16" DIP waterline, 2662 linear feet of 30" DIP waterline and 2675 linear feet of 35" DIP waterline to serve subdivisions in High Desert.

The contractor's correction period began the date of this letter and is effective for a period of one (1) year.

Sincerely,

Rick Roybal, P.

City Engineer,

Engineering Group
Public Works Department

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Sineerely

Russell B. Givler, P.E.

Chief Construction Engineer

Engineering Group

Public Works Department



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 20, 1995

CERTIFICATE OF COMPLETION AND ACCEPTANCE

Doug Collister
High Desert Investment Corp
P.O. Box 91976
Albuquerque, NM 87112

RE: PROJECT NO. 4809.80 High Desert Subdivision Phase 1-A

MAP (E-23 - F-23)

Dear Mr. Collister:

This is to certify that the City of Albuquerque accepts Project No. 4809.80 as being completed according to approved plans and construction specifications. Please be advised this certificate of completion and acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

The project consisted of construction of utilities, sanitary sewer, water and storm sewer. Also included was street related work, curb and gutter, paving and striping and signage on Spain Road from Tramway Boulevard to 800 feet east of Tramway Boulevard on Cortaderia Street from +- 1650 feet north of Spain Road to Academy, on Academy Road from Tramway to Imperata and on High Desert Street from Imperata to + - 800 feet east of Imperata as shown on sheets 1 thru 59 of the City approved project plans. Also constructed with the project was sanitary sewer in Spain Road from Tramway to Lowell Street and the traffic signalization at the Academy/Tramway and Spain/Tramway intersections.



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 3, 1995

Craig W. Hoover, PE
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE:

REVISED DRAINAGE REPORT FOR HIGH DESERT 1B1 (E-23/D3) RECEIVED FEBRUARY 3, 1995 FOR CHANGE ORDER APPROVAL ENGINEER'S STAMP DATED 11-16-94

Dear Mr. Hoover:

Based on the information included in the submittal referenced above, City Hydrology approves Change Order #1 for City Project Number 4809.95.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer/Hydrology

c: Andrew Garcia

Billy Goolsby, DRC Chairman

Douglas Collister, High Desert Investment Corp, P.O.Box 91976, Alb. 87199



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 3, 1994

Craig Hoover, P.E.
Bohannan-Huston, Inc.
7500 Jefferson Street, NE
Albuquerque, New Mexico 87109

RE: DRAINAGE REPORT FOR HIGH DESERT PHASE 1-B-1 (E-23/D3)

RECEIVED SEPTEMBER 26, 1994 FOR WORK ORDER APPROVAL

ENGINEER'S STAMP DATED 9/23/94

Dear Mr. Hoover:

Based on the information included in the submittal referenced above, City Hydrology approves this project for Work Order.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer/Hydrology

c: Billy Goolsby, Project #4809.95

Andrew Garcia

WPHYD/8236/jpc

HIGH DESERT STREET HYDRAULICS

REVISED 1/12/94

Reach	Minimum Roadway	Street	Q(100)	Flow	Required	Depth	Method of	Q(residual)	V /2g	EGL	Allowable
	Grade (%)	Capacity (cfs)	(cfs)	Velocity(fps)	Curb Type	(ft)	Reduction	(cfs)	' '-8	-~-	EGL
1	2 000%	49.6	6.2	3.35	STD	0.35	2 INLETS	2.4	0.17	0.52	واستنفاقا فالت الشمال أنا
2	2.000%	43.4	10.0	3.34	STD	0.34	2 INLETS	0.6	0.17	0.51	0.89
3	1.300%	41.1	6.5	2.8	STD	0.33	1 INLET (DG)	3.4	0.12	0.45	•
4	1.300%	6.7	62	2.74	ROLL	0.32	2 INLETS	1.6	0.12	0.44	0.67
5	0.740%	31.1	4 5	2.1	STD	0.32	1 INLET (LP)	0	0 07	0.39	0.85
6	0.740%	5.1	* 5.0	2.09	ROLL.	0.33	1 INLET (LP)	0	0.07	0.40	
7	1.000%	36.1	1.1	1.75	ROLL	0.24	1 INLET (LP)	0	0.02	0.26	
8	3.000%	53.2	5.9	3.75	STD	0.33	2 INLETS	0	0.22	0.55	
9	1.230%	38.9	8.8	2.98	STD	0.42	2 INLETS	0.6	0.14	0.56	
10	0.750%	5.1	**6.9	2.1	ROLL.	0.32	1 INLET (LP)	0	0.07	0.40	0.63
11	0.750%	5.1	**6.1	2.0	ROLL.	0.31	1 INLET (LP)	0	0.06	0.37	0.51
12	0.884%	5.5	*3.2	2.1	ROLL	0.28	1 INLET (LP)	2.3	0.07	0.35	0 63
13	0 884%	5 5	*2 B	2.0	ROLL	0.27	1 INLET (LP)	0	0.06	0.33	0.51

LP = LOW POINT

[&]quot;Q (100) is calculated for runoff entering low point inlet from both directions. Q(100) < 4.90 cfs either side of inlet which meets min street capacity computed.

REACH	
1	Southern 1/2 of Academy Blvd.: Station 63+11.59 مر جاری در المحاری مرکزی مرکزی المحاری
1N	Northern 1/2 of Academy Blvd. Station 500 to Station 63+11.59
2	Southern 1/2 of Academy Blvd.: Station 63+74.11 to 83+21.16
2N	Northern 1/2 of Academy Blvd. Station 63+11.59 to Station 83+21.16
	and eastern 1/2 of High Desert St. Station 1+00 to Station 5+08.33
	Western 1/2 of High Desert St.: Station 1+00.00 to 5+25.00
3	Eastern 1/2 of the future Imperata St.: Station 1+00.00 to 10+20.13
	Eastern 1/2 of Imperata St.: Station 10+20.13 to 16+47.25
	Western 1/2 of Imperata St.: 10+20.13 to 16+12.75
	Eastern 1/2 of the future Imperata St.: Station 1+00.00 to 10+20.13
	Eastern 1/2 of Imperata St.: Station 16+47.25 to 24+23.46
	Western 1/2 of Imperata St.: Station 16+12.75 to 24+23.46
	Eastern 1/2 of Imperata St.: Station 24+23.46 to 27+01.97
8	Southern 1/2 of Spain Rd.: Station 67+52.21 to 79+98.11
8N	Northern 1/2 of Spain Rd. Station 67+52.21 to Station 79+98.11
9	Southern 1/2 of Spain Rd.: Station 50+55.00 to 67+52.21
	Northern 1/2 of Spain Rd. Station 50+55.00 to Station 67+52.21
10	Eastern 1/2 of Cortaderia St.: Station 55+60.63 to 69+21.37
11	Western 1/2 of Cortaderia St.: Station 55+60.63 to 69+29.37
12	Eastern 1/2 of Cortaderia St.: Station 49+40.49 to 55+60.63
13	Western 1/2 of Cortaderia St.: Station 49+40.49 to 55+60.63

Note:

- 1. The two low points on Cortaderia St., sta. 51+03.18 and 68+00.00, have one single grate type 'D' inlet along the eastern curb and gutter to catch all nuisance flows.
- 2. The northern 1/2 of Academy Blvd., High Desert St. and Spain Rd. have proposed estate curb and gutter allowing runoff to sheet flow to the adjacent existing natural arroyo.
- 3. The western 1/2 of Imperata St., adjacent to Reach 7, has estate type curb and gutter allowing runoff to sheet flow to
- 4. All reaches defined above meet the required street capacities per the C.O.A D.P.M.

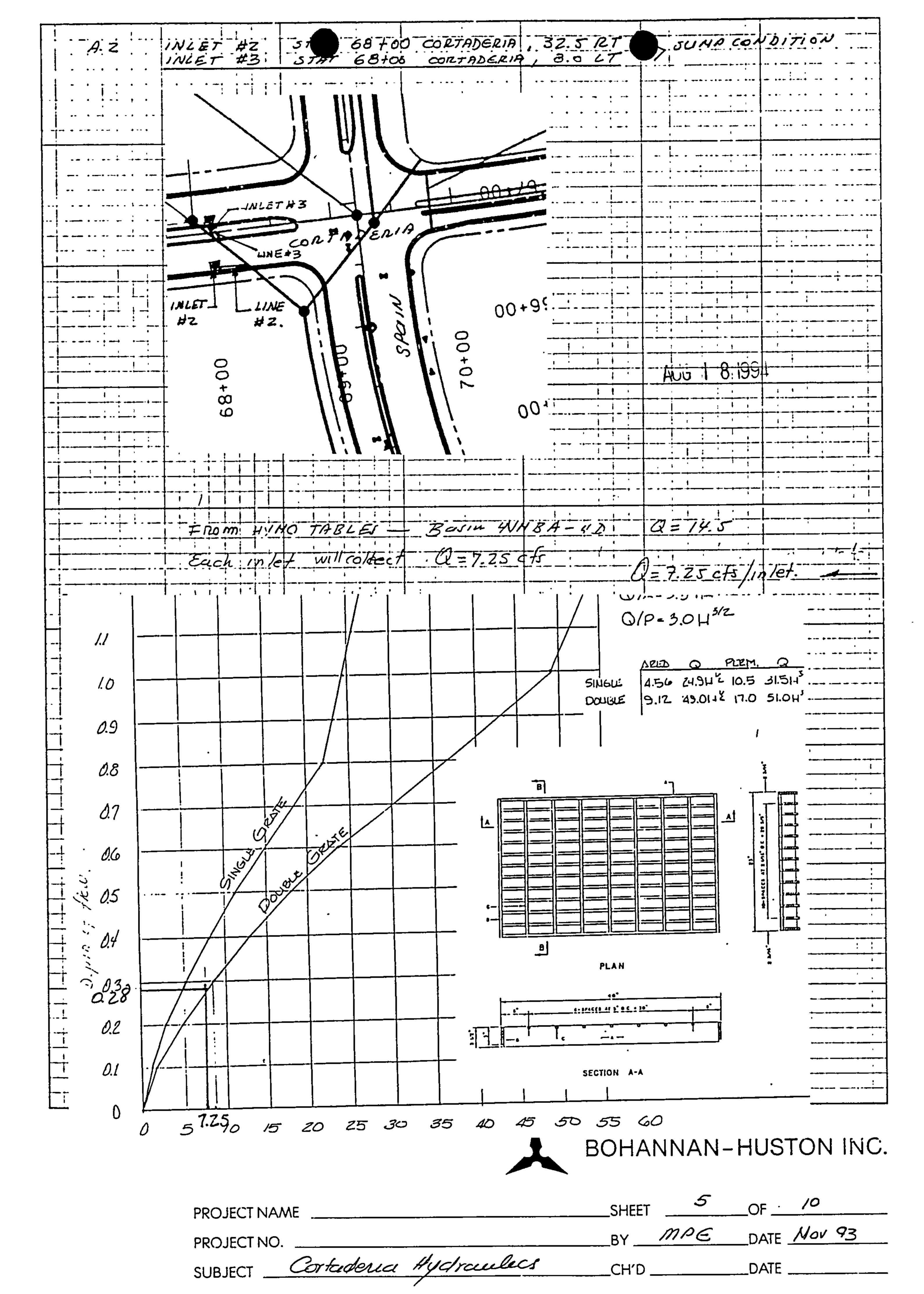
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^{*} Q (100) is calculated for runoff entering low point in vertical cirve from both directions.

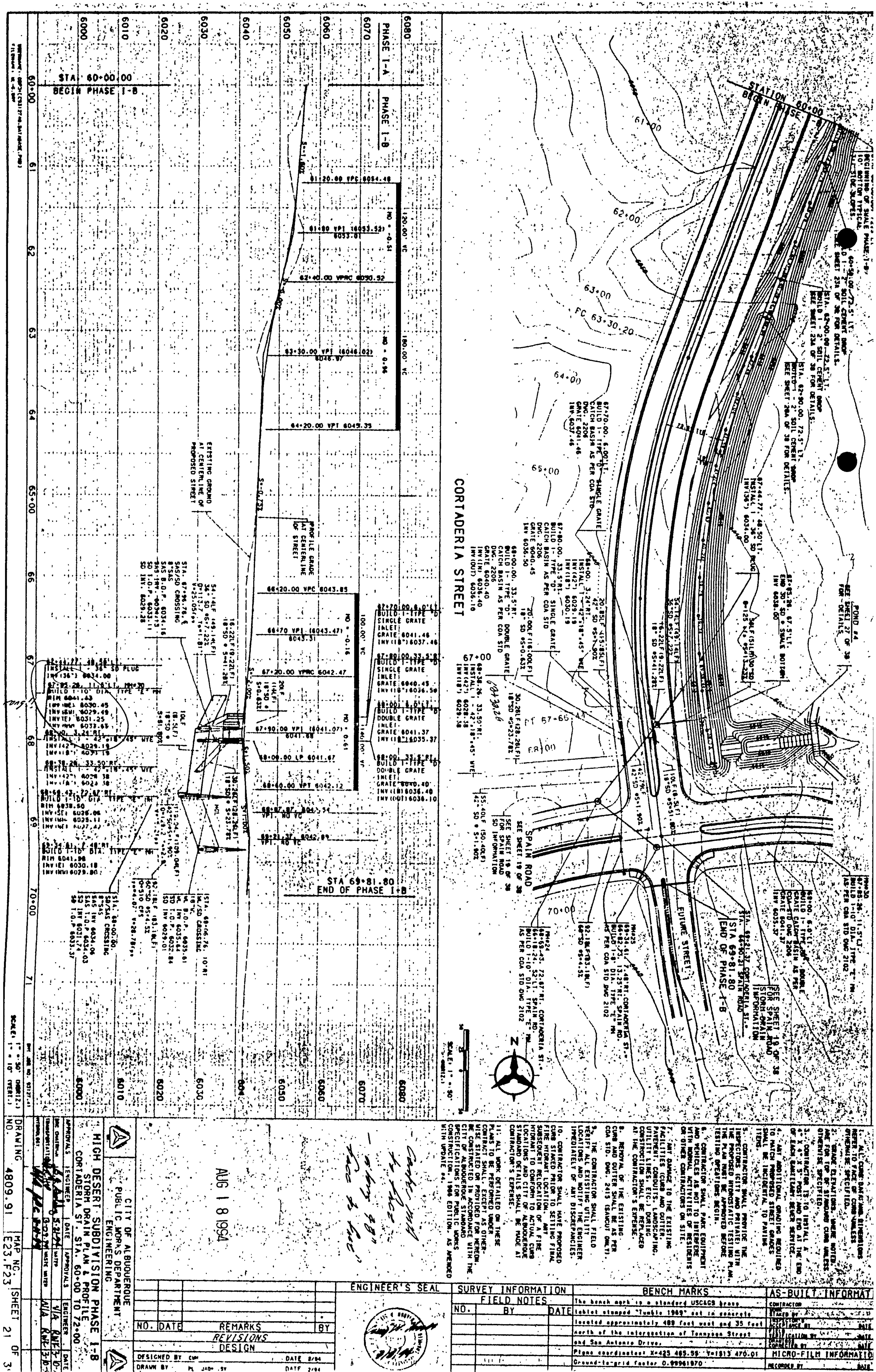
HIGH DESERT HYDRAULICS



Reach	Q(100)	Inlets	Inlet	Flow Depth	Grate	Flow Residual	Comments
#	cfs	Number/Type	Location	(ft)	Capacity	(ft)	
7	1.0	1 - Single "D"	25+70.00, 4.00 LT IMPERATA	0.21	1.4	0	
		1 - Single "D"	25+90.00, 4.00 LT IMPERATA	0	sump	0	
8	5.5	1 - Single "A"	69+73.60, 26.00 RT SPAIN	0.26	3.1	2.4	
1	2.4	1 - Single "A"	69+13.19, 26.00 RT SPAIN	0.19	1.7	0.2	
	0.2	1 - Single "A"	67+81.39, 26.00 RT SPAIN	0.07		0	
8N	5.5	1 - Single "A"	69+86.82, 26.00 LT SPAIN	0.26	· 3.1	2.4	•
	2.4	1 - Single "A"	69+26.82, 26.00 LT SPAIN	0.19	1.7	0.2	
	0.2	1 - Single "A"	67+71.81, 33.50 LT SPAIN	0.07		0	
9	8.8	1 - Single "A"	58+08.72, 37.01 RT SPAIN	0.42	4.5	4.3	
	4.3	1 - Single "A"	52+05.65, 43.00 RT SPAIN	0.37	3.6	0.70	
	0.7	1 - Single "A"	51+51.36, 43.77 RT SPAIN			0	
<u>.</u>					. _		
9N	8.8	· 1 - Single "A"		0.42	4.5	4.3	
	4.3 ·	1 - Single "A"	58+15.95, 33.50 LT SPAIN	0.33	3.9	0.4	
	0.4	1 - Single "D"	51+32.09, 15.00 RT SPAIN	0.23		0	
		4 O' I - #D#	07 70 00 00 LT 00DTADEDIA		4.0		
10	7.3	1 - Single "D"	67+70.00, 6.00 LT CORTADERIA	0.20	1.3	6.0	
	6.0	1 - Double "D"	68+00.00, 6.00 LT CORTADERIA	0.18	sump	0	
	,	d Cinala HDH		0.00	4 0		
	7.5	1 - Single "D"	67+80.00, 33.50 RT CORTADERIA	0.20	1.3	6.0	
	6.0	1 - Double "D"	68+00.00, 33.50 RT CORTADERIA	0.18	sump	0	
		4 0::-	E1.04.00 0.00 DT CODTA'DEDIA	A 40			· · · · · · · · · · · · · · · · · · ·
12	2.3	1 - Single "D"	51+24.00, 2.00 RT CORTADERIA	0.12	~ ~	2.3	AUG 8 1994
	2.3	1 - Single "D"	51+03.18, 2.00 RT CORTADERIA	0.12	sump	0	,
40	9 9	1 Cinala HDH	51+24.00, 33.50 RT CORTADERIA	0.12	<u>.</u>	2.3	; ;
13	2.3	~	51+24.00, 33.50 RT CORTADERIA 51+03.18, 33.50 RT CORTADERIA	0.12	Gumn	0)
		1 - Single "D"	SITUS. ID, SS.SU TI CUTIAUETIA	U. 12	sump		
	<u> </u>	<u> </u>		<u> </u>		<u>I1</u>	



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P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 30, 1994

Craig Hoover, P.E.
Bohannan-Huston, Inc.
7500 Jefferson Street, NE
Albuquerque, New Mexico 87109

RE: DRAINAGE REPORT FOR HIGH DESERT PHASE 1 (E-23/D3)
RECEIVED MARCH 18, 1994 FOR WORK ORDER APPROVAL
ENGINEER'S STAMP DATED 3/16/94

Dear Mr. Hoover:

Based on the information included in the submittal referenced above, City Hydrology approves this project for Work Order.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely

John P. Curtin, P.E. Civil Engineer/Hydrology

c: Billy Goolsby

WPHYD/8236/jpc

DANIEL W. COOK, CHAIRMAN

PAT D. HIGDON, VICE-CHAIRMAN

RONALD BROWN, SECRETARY-TREASURER

GENEIVA MEEKER, ASST. SECRETARY-TREASURER

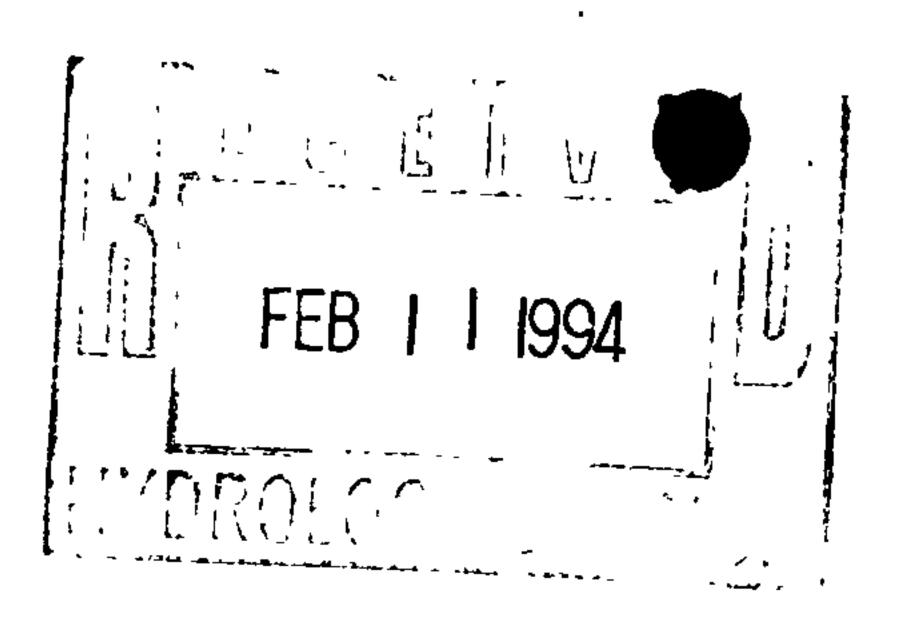
MICHAEL MURPHY, DIRECTOR

LARRY A. BLAIR
EXECUTIVE ENGINEER

Albuq que Metropolitan Arroyo Flood Control

Authority

TELEPHONE (505) 884-2215



February 11, 1994



2600 PROSPECT N E. - ALBUQUERQUE, N. M. 87107

John Curtin
City of Albuquerque

PO Box 1293 Albuquerque, NM 87103

RE: High Desert Phase I (E-23/D2)

Dear John:

This is in reference to your letter to James Topmiller of Bohannan-Huston, Inc. (BHI), dated January 27, 1994 (copy attached).

- 1. AMAFCA is satisfied that the capacity of the Pino Dam will not be exceeded by discharge from High Desert.
- 2. AMAFCA has no objection to City issuance of a Work Order for Phase I infrastructure construction, based on a separate understanding between AMAFCA, High Desert, and BHI that the following conditions will be met:
 - a. BHI will coordinate further with AMAFCA, to address certain questions regarding hydraulic capacity of Tramway drainage structures, sediment and erosion, and sequence of development.
 - b. Development of housing on each tract requires separate approval of grading and drainage plans.
 - c. The Bear Training Dike and the Bear Tributary Diversion Dike shall be modified to AMAFCA's satisfaction, prior to any human occupancy of buildings on affected tracts, or prior to May 31, 1995, whichever comes first, unless otherwise agreed to, in writing, by AMAFCA. High Desert is responsible for raising and/or extending the dikes, plus any attendant armoring; AMAFCA will be responsible for addressing existing scour problems along the toe of the dikes.

Sincerely, AMAFCA

Larry A. Blair, P.E. Executive Engineer

LAB:ii

copy: Doug Collister, High Desert

James Topmiller, BHI

HIGH DESERT STREET HYDRAULICS

REVISED 1/12/94

Reach	Minimum Roadway	Street	Q(100)	Flow	Required	Depth	Method of	Q(residual)	V /2g	EGL	Allowabie
	Grade (%)	Capacity (cfs)	(cfs)	Velocity(fps)	Curb Type	(ft)	Reduction	(cfs)			EGL
1	2.000%	49.6	6.2	3.35	STD	0.35	2 INLETS	2.4	0.17	0.52	0.89
2	2.000%	43.4	10.0	3.34	STD	0.34	2 INLETS	0.6	0.17	0.51	0.89
3	1.300%	41.1	6.5	2.8	STD	0.33	1 INLET (DG)	3.4	0.12	0.45	0.85
4	1.300%	6.7	6.2	2.74	ROLL	0.32	2 INLETS	1.6	0.12	0.44	0.67
5	0.740%	31.1	4.5	2.1	STD	0.32	1 INLET (LP)	0	0.07	0.39	0.85
6	0.740%	5.1	*5.0	2.09	ROLL	0.33	1 INLET (LP)	0	0.07	0.40	0.67
7	1.000%	36.1	1.1	1.75	ROLL	0.24	1 INLET (LP)	0	0.02	0.26	0.45
8	3.000%	53.2	5.9	3.75	STD	0.33	2 INLETS	0	0.22	0.55	0.97
9	1.230%	38.9	8.8	2.98	STD	0.42	2 INLETS	0.6	0.14	0.56	0.97
10	0.750%	5.1	**6.9	2.1	ROLL	0.32	1 INLET (LP)	0	0.07	0.40	0.63
11	0.750%	5.1	**6.1	2.0	ROLL	0.31	1 INLET (LP)	0	0.06	0.37	0.51
12	0.884%	5.5	*3.2	2.1	ROLL	0.28	1 INLET (LP)	2.3	0.07	0.35	0.63
13	0.884%	5.5	*2.8	2.0	ROLL	0.27	1 INLET (LP)	0	0.06	0.33	0.51

LP = Low Point

^{**} Q (100) is calculated for runoff entering low point inlet from both directions. Q(100) < 4.90 cfs either side of inlet which meets min street capacity computed.

DESCRIPTION
Southern 1/2 of Academy Bivd.: Station 63+11.59
Northern 1/2 of Academy Blvd. Station to Station 63+11.59
Southern 1/2 of Academy Blvd.: Station 63+74.11 to 83+21.16
Northern 1/2 of Academy Blvd. Station 63+11.59 to Station 83+21.16
and eastern 1/2 of High Desert St. Station 1+00 to Station 5+08.33
Western 1/2 of High Desert St.: Station 1+00.00 to 5+25.00
Eastern 1/2 of the future Imperata St.: Station 1+00.00 to 10+20.13
Eastern 1/2 of Imperata St.: Station 10+20.13 to 16+47.25
Western 1/2 of Imperata St.: 10+20.13 to 16+12.75
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Western 1/2 of Imperata St.: Station 16+12.75 to 24+23.46
Eastern 1/2 of Imperata St.: Station 24+23.46 to 27+01.97
Southern 1/2 of Spain Rd.: Station 67+52.21 to 79+98.11
Northern 1/2 of Spain Rd. Station 67+52.21 to Station 79+98.11
Southern 1/2 of Spain Rd.: Station 50+55.00 to 67+52.21
Northern 1/2 of Spain Rd. Station 50+55.00 to Station 67+52.21
Eastern 1/2 of Cortaderia St.: Station 55+60.63 to 69+21.37
Western 1/2 of Cortaderia St.: Station 55+60.63 to 69+29.37
Eastern 1/2 of Cortaderia St.: Station 49+40.49 to 55+60.63
Western 1/2 of Cortaderia St.: Station 49+40.49 to 55+60.63

Note:

- 1. The two low points on Cortaderia St., sta. 51+03.18 and 68+00.00, have one single grate type 'D' inlet along the eastern curb and gutter to catch all nuisance flows.
- 2. The northern 1/2 of Academy Blvd., High Desert St. and Spain Rd. have proposed estate curb and gutter allowing runoff to sheet flow to the adjacent existing natural arroyo.
- 3. The western 1/2 of Imperata St., adjacent to Reach 7, has estate type curb and gutter allowing runoff to sheet flow to the adjacent existing natural arroyo.
- 4. All reaches defined above meet the required street capacities per the C.O.A D.P.M.

^{*} Q (100) is calculated for runoff entering low point in vertical cirve from both directions.

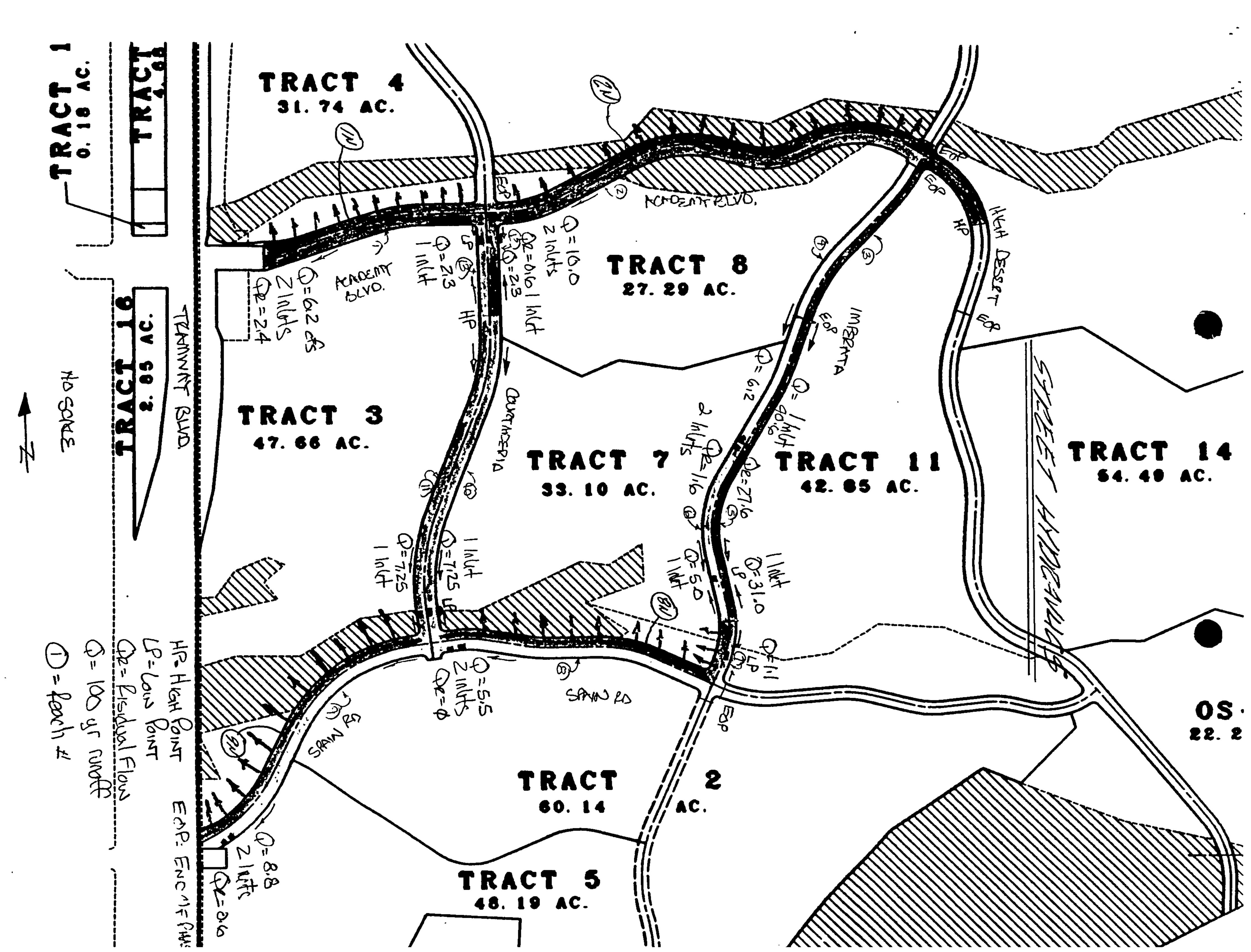
HIGH DESERT STREET HYDRAULICS

REVISED 1/12/94

	*LOCATION		Q	· · · · · · · · · · · · · · · · · · ·				
	OF	MAX.	@ MAX	FLOW	FLOW	V /2g	EGL	ALLOWABLE
REACH	MAX. SLOPE	SLOPE	SLOPE LOCATION	DEPTH_	VELOCITY			EGL
1	57+50	5.84%	5.6	0.26	4.4	0.30	0.56	0.89
2	63+75	5.60%	11.5	0.36	5.6	0.49	0.85	0.89
3	10+40	4.88%	4.6	0.24	4.3	0.29	0.53	0.85
3	12+00	2.31%	5.1	0.27	3.3	0.17	0.44	0.85
4	10+40	4.88%	4.0	0.28	4.05	0.25	0.53	0.67
4	12+00	2.31%	4.7	0.26	3.2	0.16	0.42	0.67
5	23+15	1.9%	0.7	0.15	1.9	2.06	0.21	0.85
6	23+15	1.9%	1.0	0.17	2.0	0.06	0.23	0.67
7	25+10	2.0%	1.1	0.16	2.0	0.06	0.22	0.45
8	68+10	5.4%	5.9	0.30	4.8	0.36	0.66	0.97
9	53+20	6.5%	8.8	0.33	5.6	0.49	0.82	0.97
10	62+40	5.0%	3.4	0.21	3.9	0.24	0.45	0.63
11	62+40	5.0%	3.0	0.21	3.9	0.24	0.45	0.51
12	51+50	0.884%	5.5	0.32	2.3	0.08	0.40	0.63
13	51+50	0.884%	2.3	0.24	1.9	0.05	0.29	0.51

NOTES:

- 1. Unless otherwise noted, flow rates are for only what runoff occurs within street right-of-way since offsite flows will be discharged directly to the public SD via offsite SD pipes connecting to stubouts.
- 2. Reach 1N is essentially the same as, only slightly smaller in area, than reach 1 and separate analysis was not completed A mirror image of the inlets required for reach 1 is proposed for reach 1N.
- 3. Reaches 2N, 8N, and 9N are related to reaches 2, 8, and 9 as 1N is to 1 and were treated the same way as reach 1.



APPENDIX A HYDRAULICS INFORMATION SUMMARY TABLE

<u></u>	SUMINARI I ADLE										
FROM STATION	TO STATION	STREET NAME	PIPE SIZE (in)	FLOW Q (cfs)	SLOPE S (%)	VEL. V (fps)	HGL Yn (ft)	SEE PLAN SHEET	FOR CALCS. SEE APPENDIX		
PHASE 1-B											
01+50.00	05+50.00	SPAIN STORM DRAIN	72	642	2.84	26.7	4.76	18 OF 38	EXHIBIT 1		
05+50.00	06+20.00	SPAIN STORM DRAIN	72	642	2.84	26.7	4.76	18 OF 38	EXHIBIT 1		
05+50.50	07+32.00	SPAIN STORM DRAIN	42	106.3	2	15.3	2.38	18 OF 38	EXHIBIT 2		
58+95.84	62+69.13	SPAIN ROAD	72	642	3.18	28.17	4.51	19 OF 38	EXHIBIT 3		
62+69.13	66+18.24	SPAIN ROAD	66	642	5.17	33.8	4.1	19 OF 38	EXHIBIT 4		
66+18.24	66+82.73	SPAIN ROAD	60	642	4.2	26.8	. 5.1	19 OF 38	EXHIBIT 5		
66+82.73	71+34.77	SPAIN ROAD	60	366	4.59	28.6	3.1	19 OF 38	EXHIBIT 6		
71+34.77	159.78	SPAIN ROAD	60	340	4.59	28.2	2.96	20 OF 38	EXHIBIT 7		
159.78	78+52.50	SPAIN ROAD	60	340	2.85	23.26	3.49	20 OF 38	EXHIBIT 8		
78+52.50	79+32.5	SPAIN ROAD	66	340	2.85	23.55	3.22	20 OF 38	EXHIBIT 9		
67+85.26	68+69.43	CORTADERIA ST	48	128.2	1.42	14.03	2.73	21 OF 38	EXHIBIT 10		
67+43.50	68+69.43	CORTADERIA ST	42	113.7	3.02	18.26	2.16	21 OF 38	EXHIBIT 11		
16+20.00	19+00.00	IMPERATA ST	36	20.4	1.8	10.22	1.12	22 OF 38	EXHIBIT 12		
19+00.00	22+50.00	IMPERATA ST	42	20.4	0.75	7	1.2	22 OF 38	EXHIBIT 13		
22+50.00	26+59.00	IMPERATA ST	54	57	0.75	9.13	1.87	22 OF 38	EXHIBIT 14		
26+59.00	27+15.22	IMPERATA ST	66	340	1.25	16.72	4.39	23 OF 38	EXHIBIT 15		
PHASE 1-A	•										
62+23.74	63+23.50	ACADEMY BLVD	42	90.8	1.39	12.7	2.43	21 OF 59	EXHIBIT 16		
63+23.50	63+80.34	CORTADERIA ST	18	9.4	10.41	15.65	0.56	21 OF 59	EXHIBIT 17		
50+17.64	51+48.62	CORTADERIA ST	42	79.71	1	10.8	2.49	22 OF 59	EXHIBIT 18		
51+48.62	52+00.00	CORTADERIA ST	42	75.2	1.1	11.23	2.3	22 OF 59	EXHIBIT 19		

APPENDIX A ACADEMY BOULEVARD - CATCH BASIN LOCATION SUMMARY TABLE

STREET	INLET LOCATION	INLET TYPE
Academy Blvd	52+04.94, 42.00 RT	Single "C"
Academy Blvd	52+23.57, 42.00 RT	Single "A"
Academy Blvd	54+00.00, 43.00 LT	Double "C"
Academy Blvd	54+52.84, 36.63 LT	Double "A"
Academy Blvd	63+66.93, 32.57 LT	Double "C"
Academy Blvd	63+87.93, 32.60 LT	Double "A"
Academy Blvd	63+84.08, 37.03 RT	Double "C"
Academy Blvd	63+98.27, 36.55 RT	Double "A"

NOTE: See Appendix C for summary of flow rates and street hydraulics

APPENDIX A SPAIN ROAD - CATCH BASIN LOCATION SUMMARY TABLE

STREET	INLET LOCATION	INLET TYPE
Spain Road	51+33.20, 10.48 RT	Single "D"
Spain Road	51+51.36, 43.77 RT	Single "C"
Spain Road	51+73.50, 43.00 RT	Single "A"
Spain Road	67+82.60, 33.50 LT	Single "C"
Spain Road	67+99.29, 33.50 LT	Single "A"
Spain Road	67+82.60, 26.00 RT	Single "C"
Spain Road	67+99.29, 26.00 RT	Single "A"

NOTE: See Appendix C for summary of flow rates and street hydraulics

APPENDIX A CORTADERIA STREET - CATCH BASIN LOCATION SUMMARY TABLE

STREET	INLET LOCATION	INLET TYPE
Cortaderia St.	51+03.18, 37.50 LT	Single "D"
Cortaderia St.	51+03.18, 2.00 RT	Single "D"
Cortaderia St.	51+03.18, 33.50 RT	Single "D"
Cortaderia St.	68+00.00, 6.00 LT	Double "D"
Cortaderia St.	68+00.00, 35.00 RT	Double "D"

NOTE: See Appendix C for summary of flow rates and street hydraulic

APPENDIX A IMPERATA STREET - CATCH BASIN LOCATION SUMMARY

STREET	INLET LOCATION	INLET TYPE
Imperata St.	15+92.75, 24.00 RT	Double "A"
Imperata St.	16+12.75, 24.00 RT	Single "C"
Imperata St.	16+47.25, 24.00 LT	Double "C"
Imperata St.	22+07.21, 24.00 RT	Double "C"
Imperata St.	22+07.21, 24.00 LT	Single "D"
Imperata St.	25+90.00, 4.00 LT	Single "D"

NOTE: See Appendix C for summary of flow rates and street hydraulics

APPENDIX D TEMPORARY DESILTING PONDS SUMMARY TABLE

POND #	Q ₂ (cfs)	Q ₁₀₀ (cfs)	SEDIMENT STORAGE VOLUME (cf)	VOLUME (cf)	Q ₁₀₀ (out) (cfs)
1	18.2	373.5	9,670	39,598	373.5
2	0.8	40.6	562	2,989	40.6
2A	1.0	63.9	999	5,512	63.9
3	2.6	85.4	2,637	10,039	85.4
4	3.4	35.0	804	2,578	35.0
5A 5B	2.5 4.7	36.5 69.8	635 1,216	2,165 4,950	106.3
6	1.3	18.7	240	635	18.7
7	0.8	22.9	388	1,196	22.9

NOTES:

- 1. Credit for attenuation of flow through pond was not considered
- 2. All ponds were sized such that the sediment storage volume was equal to the sediment inflow volume. This sediment inflow volume was based on the Universal Soil Loss Equation (USLE).
- Total volume represents the volume from the bottom of the pond to the 100-year water surface elevation.

HYMO SUMMARY TABLE

Pg. 1

						•		
0 DESCRIPTION	HYDROGRAPH	FROM	TO	AREA	DISCHARGE	CURVE NO	TIME	CFS PER
	LABEL	NO	NO	SQ	CFS		PEAK HR	ACRE
HYDROGRAPH AT ROUTED	NMBA1A	1 1	- 2	0.1386	5 15.1	NA	1.53	0.1
	NMBA1A	1		0.1386			1.53	
HYDROGRAPH AT	RNMBA1A NMBA1B	3	_	0.1050		NA	1.57	0.1
COMBINED FLOW ROUTED		2 & 3 4	4 5	0.2436	5 20.1		1.60	
	AP1	4		0.243			1.60	
HYDROGRAPH AT	RAP1 NMBA2A	5 1		0.2430		NA	1.73 1.53	0.0
COMBINED FLOW	_	5& 1	2	0.256		TALL	1.73	0.0
HYDROGRAPH AT		4	_	0.013		NA	1.53	0.0
COMBINED FLOW		4& 2	3	0.269			1.73	
ROUTED		3	4					
	AP2	3		0.269			1.73	
	RAP2	4		0.269			1.80	
HYDROGRAPH AT		4.6.6	–	0.041		NA	1.53	0.0
COMBINED FLOW ROUTED		4 & 6 7	1	0.310			1.80	
	AP2A	1		0.3100			1.80 1.80	
HYDROGRAPH AT	RAP2A NMBA1C	8		0.310		NA	1.60	0.0
COMBINED FLOW	_	1& 8	9	0.382		7477	1.80	0.0
RESERVOIR HYD		9	14	0.382			1.83	
ROUTED 66"		14	10					
	POND3OUT	14		0.382	5 13.4		1.83	
	RAP3SS	10		0.382			1.83	
HYDROGRAPH AT		1	_	0.004		NA	1.50	1.6
	AT AP3NMBA2	10& 1	2	0.386	5 14.7		1.83	
ROUTED 66"	a do 2 aime a 2	2 2	3	0.386	14.7		1.83	
	AP3NMBA2 AP4	<u>4</u> ع		0.386			1.83	
HYDROGRAPH AT		4	_	0.009		NA	1.50	1.7
ROUTED 24"		4	5					
	NMBA4B	4		0.009	0 10.1		1.50	
	RNMBA4B	5	_	0.009	0 10.0		1.50	
ROUTED 66"		3	6	0 000	_ 4 -		1 0 0	
	AP4	3 6		0.386			1.83	
COMBINED FLOW	RAP4 AT AP5	5& 6	7	0.3860		•	1.83 1.83	
COMBINED FLOW ROUTED 60"	AT AP5	5 & 0 7	8	0.393	17.0		1.03	
	AP5	7		0.395	17.8		1.83	
	RAP5	8		0.395			1.83	
HYDROGRAPH AT		1		0.002		NA	1.50	1.4
COMBINED FLOW		8& 1	8	0.397			1.83	
HYDROGRAPH AT	•	10		0.035		NA	1.50	1.6
HYDROGRAPH AT	NMBA4A	10	_	0.012	0 3.2	NA	1.50	0.4

1

0 DESCRIPTION		HYDROGRAP! LABEL	FROM H ID NO	TO ID NO	AREA SQ MI	DISCHARGE	CURVE	TIME TO TO PEAK HR	CFS PER ACRE
COMBINED FLOW ROUTED 60"	AT	AP6	9&10 1	1 2	0.047	0 40.2		1.50	
		AP6 RAP6	1		0.0470		•	1.50	1
COMBINED FLOW	AT		2& 8	3	0.4446			1.53	1
HYDROGRAPH AT		NMBA4D	4		0.0050		NA	1.50	1.6
COMBINED FLOW ROUTED 66"	AT	AP7	3& 4	. 5	0.4496	61.8		1.53	
KOO1ED 00		AP7	5 5	. 6	0.4496	61.8		1.53	
		RAP7	6		0.4496	4 4 0		1.53	
HYDROGRAPH AT		SMBA2B	7		0.0010		NA	1.50	1.6
	AT		6& 7	8	0.4506			1.53	
HYDROGRAPH AT ROUTED		SMBA1A	9	1 0	0.0550	1.6	NA	1.53	0.0
KOOIED		SMBA1A	9	10	0.0550	1 6		1 6 2	
		RSMBA1A	10		0.0550			1.53 1.60	
HYDROGRAPH AT		SMBA2A	1		0.0120	-	NA	1.50	0.8
COMBINED FLOW	AT	AP8	10& 1	2	0.0670		- 1	1.53	•••
COMBINED FLOW	AT	AP9	8& 2	3	0.5176	·		1.53	
ROUTED 72"			3	4					•
		AP9	3		0.5176			1.53	1
HYDROGRAPH AT		RAP9 NMBA5	4 5		0.5176	·		1.53	
COMBINED FLOW	ΑΨ		4 & 5	-	0.0143 0.5319		NA	1.50	0.2
HYDROGRAPH AT		NMBA6	7	_	0.0060	· — · •	NA	1.53 1.53	0.4
COMBINED FLOW	AT		6& 7	8	0.5379	_ , ,	747.7	1.53	0.4
HYDROGRAPH AT		NBA1	1		0.0410		NA	1.50	1.4
HYDROGRAPH AT		NBA2	2		0.0050	1.3	NA	1.53	0.4
COMBINED FLOW	AT	AP11	1& 2	3	0.0460	38.0		1.50	
ROUTED		3 To 1 1	3	4	0 0 4 6 0				
		AP11 93.3	3 A		0.0460			1.50	
COMBINED FLOW	יד ב		4 4 & 8	20	0.0460 0.5839			1.53	
HYDROGRAPH AT		SBA1	15	20	0.0170		NA	1.53 1.50	1.4
HYDROGRAPH AT		SBA2	16		0.0103		NA	1.50	1.4
HYDROGRAPH AT		SBA3	17	-	0.0107		NA	1.50	1.4
HYDROGRAPH AT		NBT1A	1	_	0.0780	4.0	NA	1.60	0.0
HYDROGRAPH AT		NBT1B	2	_	0.0040	1.3	NA	1.50	0.5
ROUTED		NID m 1 D	2	3	0 0040			4	
		NBT1B RNBT1B	2		$0.0040 \\ 0.0040$	_ • •		1.50	
COMBINED FLOW	ΑТ	NBT1A&1B	1& 3	4	0.0820	_ • •		1.53	
HYDROGRAPH AT		NBT2A	5		0.0110	- • •	NA	1.60 1.50	0.1
COMBINED FLOW	AT	AP16	4& 5	6	0.0930		PALZ	1.57	↓ • ⊥
HYDROGRAPH AT		SBT3AP17	7		0.0400		NA	1.53	0.0
HYDROGRAPH AT	. –	SBT5	8		0.0050		NA	1.50	1.6
COMBINED FLOW ROUTED	AT	AP18	7& 8	9 1 0	0.0450	7.3		1.50	
MOOTED		AP18	9 9	10	0.0450	~	+	1 60	
1		737 T O	7		0.0450	7.3		1.50	

0 DESCRIPTION	HYDROGRAPH	FROM	TO	AREA	DISCHARGE	CURVE	TIME	CFS PER
	LABEL	NO	NO	SQ	CFS		PEAK HR	ACRE
ROUTED	RAP18	10	1	0.0450	6.5		1.57	
	AP16	6		0.0930	6.0		1.57	
	RAP16	1		0.0930	5.5		1.63	
HYDROGRAPH AT	NBT2B	2		0.0830	3.0	NA	1.53	0.0
COMBINED FLOW A	T NBT2B&AP	1& 2	3	0.1760	8.0		1.60	
HYDROGRAPH AT	SBT6	4	_	0.0020	2.2	NA	1.50	1.7
COMBINED FLOW A	T AP19	10& 4	5	0.0470	8.3		1.57	
HYDROGRAPH AT	SBT4	6	_	0.0230	20.6	NA	1.50	1.4
COMBINED FLOW A	T AP20	5& 6	7	0.0700	28.1		1.53	
ROUTED 84"		7	8					
	AP20	7		0.0700	28.1		1.53	
	RAP20	8		0.0700	28.3		1.53	
COMBINED FLOW A	T AP21	3&8	9	0.2460			1.53	
HYDROGRAPH AT	NBT4	10	-	0.0030		NA	1.53	0.4
COMBINED FLOW A	T AP22	10& 9	19	0.2490		_ ,	1.53	•••

HYMO SUMMARY TABLE

Pg. CFS TIME DISCHARGE CURVE FROM TO AREA DESCRIPTION PER TO NO ID ID HYDROGRAPH ACRE PEAK SQ NO NO LABEL HR CFS MI NA 0.1386 99.4 | NMBA1A HYDROGRAPH AT ROUTED 1.53 99.4 0.1386 NMBA1A 1.60 84.5 0.1386 RNMBA1A 1.57 0.7 ·51.8 _ NA 0.1050. NMBA1B HYDROGRAPH AT (135.6) 1.60 0.2436 (API) 2& 3 COMBINED FLOW AT ROUTED 1.60 135.6 0.2436 AP1 1.67 115.0 0.2436 RAP1 1.53 0.8 NA 0.0130 NMBA2A HYDROGRAPH AT 1.67 (119.1 0.2566 (AP2 **5& 1** COMBINED FLOW AT 0.8 1.53 NA 0.0130 5 NMBA2B HYDROGRAPH AT 1.63 (123.9) 0.2696 4& 2 (AP2) COMBINED FLOW AT ROUTED 1.63 123.9 0.2696 AP2 1.67 119.2 0.2696 RAP2 1.53 0.8 23.3 0.0410 NA 6 NMBA2C HYDROGRAPH AT [132.0] 1.67 0.3106 [AP2A] 4& 6 COMBINED FLOW AT ROUTED 1.67 132.0 0.3106 AP2A 1.63 130.7 0.3106 RAP2A 1.57 0.6 30.8 0.0720 NA NMBA1C HYDROGRAPH AT 160.0 1.63 (AP3) 0.3826 1& 8 COMBINED FLOW AT 1.70 153.6 0.3826 9 14 POND3OUT HYD RESERVOIR 10 14 66" ROUTED 1.70 153.6 0.3826 14 POND3OUT 1.70 153.7 0.3826 10 RAP3SS 1.50 2.8 .7.2 NA 0.0040 NMBA2D HYDROGRAPH AT 1.70 156.9 0.3866 AP3NMBA2 10& 1 FLOW COMBINED AT 66" ROUTED 1.70 156.9 0.3866 AP3NMBA2 [157.0] 1.70 AP4 0.3866 1.50 2.9 17.1 NA 0.0090 NMBA4B 9 HYDROGRAPH AT 5 24" ROUTED 1.50 17.1 0.0090 NMBA4B 1.50 17.0 0.0090 RNMBA4B 6 66" ROUTED 157.0 1.70 0.3866 AP4 1.70 <u> 158.0</u> 0.3866 6 RAP4 (AP5,) 165.6 1.70 0.3956 5& 6 FLOW AT COMBINED 60" ROUTED 1.70 165.6 0.3956 AP5 1.70 166.2 0.3956 RAP5 1.50 2.6 3.3 0.0020 NA SMBA1B HYDROGRAPH AT (1<u>67.7</u>) 1.70 0.3976 (AP5A) 8& 1 COMBINED FLOW 1.50 2.8 64.2 /O NMBA4C 0.0350 NA HYDROGRAPH AT

1.3

1.50

10.5

NA

0.0120

HYDROGRAPH AT

8 NMBA4A

10

0 DESCRIPTION	HYDROGRAP	FROM H ID NO	TO ID NO	AREA	DISCHARGE	CURVE	TIME TO TO PEAK HR	CFS PER ACRE
COMBINED FLOW ROUTED 60"	AT AP6	9&10 1	1 2	0.0470	74.73	:	1.50	
	AP6	1	_	0.0470	• • • •		1.50	
COMBINED FLOW	RAP6 AT RAP6	2 2& 8	3	0.0470 0.4446			1.50 1.67	
HYDROGRAPH AT		4	-	0.0050	•	NA	1.50	2.8
COMBINED FLOW	The state of the s	3& 4	5	0.4496		7	1.67	2.0
ROUTED 66"		5	6					
	AP7	5		0.4496	207.0		1.67	
*****	RAP7	6		0.4496			1.70	
HYDROGRAPH AT		7	_	0.0010	_	' NA	1.50	2.8
COMBINED FLOW HYDROGRAPH AT		6& 7 9	8	0.4506		87 %	1.67	^ ^
ROUTED	11 DLIDHTH	9	10	0.0550	28.9	NA	1.53	0.8
	SMBA1A	9		0.0550	28.9		1.53	
	RSMBA1A	10		0.0550			1.53	
HYDROGRAPH AT	•	1	_	0.0120	•	NA	1.50	1.9
		10& 1	2	0.0670	542.7		1.53	
COMBINED FLOW	AT (AP9)	8& 2	3	0.5176	233.7	>	1.63	
ROUTED 72"	AP9	3	4	Λ E176	· ^ ^ ~		1 ()	
	RAP9	∂		0.5176 0.5176			1.63	
HYDROGRAPH AT		5	_	0.0143		NA	1.63 1.50	1.0
COMBINED FLOW		4& 5	6	0.5319	,	1477	1.60	1.0
HYDROGRAPH AT	A	7	-	0.0060		NA	1.50	1.5
COMBINED FLOW	AT AP10	68 7	8 ₹	0.5379	245.3	L	1.60	
HYDROGRAPH AT	2/ NBA1	1	_	0.0410		NA	1.50	2.5
HYDROGRAPH AT	2Z NBA2	2	_	0.0050		NA	1.50	1.5
COMBINED FLOW ROUTED	AT AP11	1& 2	3	0.0460	73.0	}	1.50	
ROUIED	AP11	ર	4	0.0460	73.0		1 50	
	93.3	4		0.0460			1.50 1.53	
COMBINED FLOW		4&8	20	0.5839	• -	•	1.57	
HYDROGRAPH AT	18 SBA1 AP	<i>13</i> 15	-	0.0170		NA	1.50	2.5
HYDROGRAPH AT	19 SBA2 AP	*	-	0.0103	17.1	NA	1.50	2.5
HYDROGRAPH AT	20 SBA3 AP	/4A17	-	0.0107		NA	1.50	2.5
HYDROGRAPH AT	23 NBT1A	1	-	0.0780		NA	1.60	0.6
HYDROGRAPH AT ROUTED	24 NBT1B	2 2	2	0.0040	, 3 . 8	NA	1.50	1.4
	NBT1B	2	3	0.0040	3.8		1.50	
	RNBT1B	3		0.0040			1.57	
COMBINED FLOW		1& 3	4	0.0820			1.60	
HYDROGRAPH AT		<i>15</i> 5	_	0.0110	· -	NA	1.50	1.0
COMBINED FLOW		4&_5	6	0.0930	<u> </u>		1.57	
HYDROGRAPH AT		7	_	0.0400	•	NA	1.50	0.9
HYDROGRAPH AT COMBINED FLOW	30 SBT5 AT (AP18)	ک 7 د ۵	<u> </u>	0.0050		NA	1.50	2.7
ROUTED	WI WEIGH	7& 8 9	9 10	0.0450	(34.1)		1.50	
1	AP18	9	- V	0.0450	34.1		1.50	

0 DESCRIPTION	UVDDOCDADU	FROM	TO	AREA	DISCHARGE		TIME	CFS
r	HYDROGRAPH LABEL	ID NO	ID NO	SQ	CFS	NO	TO PEAK HR	PERACRE
ROUTED	RAP18	10 6	1	0.0450	32.1		1.57	
	AP16	6		0.0930	42.8		1.57	
	RAP16	1		0.0930	41.5		1.60	
HYDROGRAPH AT		2	_	0.0830	46.4	NA	1.53	0.8
COMBINED FLOW	AT NBT2B&AP	1& 2	3	0.1760	83.3		1.57	
HYDROGRAPH AT	3/ SBT6,	4	_	0.0020	3.8	NA	1.50	3.0
COMBINED FLOW	AT AP19	10& 4	5	0.0470			1.53	
HYDROGRAPH AT	29 SBT4	6	_	0.0230	38.1	NA	1.50	2.5
COMBINED FLOW	AT AP20	5& 6	7	0.0700	72.1		1.53	
ROUTED 84"		7	8					
	AP20	7		0.0700	72.1	>	1.53	
1	RAP20	8		0.0700			1.53	
COMBINED FLOW	AT (AP2I)	3&8	9	0.2460	153.2	}	1.53	
HYDROGRAPH AT	27 NBT4	10	_	0.0030		NA	1.50	1.5
COMBINED FLOW	AT (AP22)	10& 9	19	0.2490	(156.2)		1.53	

HYMO SUMMARY TABLE

Pg. 1

1								
0 DESCRIPTION	HYDROGRAPH	FROM	TO	AREA	DISCHARGE	CURVE NO	TIME	CFS PER
	LABEL	NO	NO	SQ MI	CFS		PEAK HR	ACRE
HYDROGRAPH AT ROUTED	NMBAIA	1 1	- 2	0.1386	238.4	NA	1.53	2.6
	NMBA1A RNMBA1A	1 2	_	0.1386			1.53	
HYDROGRAPH AT COMBINED FLOW		28.3	-	0.105	135.8	NA	1.57 1.57	2.0
ROUTED	AP1	4	5	0.2436			1.57	
HYDROGRAPH AT		5 1		0.2436		NA	1.60	2.4
COMBINED FLOW HYDROGRAPH AT COMBINED FLOW	NMBA2B	4	4 -	0.450	_	AN C.	1.60	2.4
ROUTED	AP2	3	4	0.2696			1.60	
HYDROGRAPH AT	RAP2	4	_	0.2696	347.9	NA	1.63	2.4
COMBINED FLOW ROUTED	AT AP2A	4 & 6 7	7 1	0.3106			1.63	
****	AP2A RAP2A	7		0.3106	403.4		1.63	
HYDROGRAPH AT COMBINED FLOW	AT AP3	8 1& 8	9	0.0720	(485.1)	NA	1.57	1.8
RESERVOIR HYD ROUTED 66"	POND3OUT> POND3OUT	9 14 14	14 10	0.3826			1.77	
HYDROGRAPH AT	RAP3SS	10		0.3826	329.5	NA	1.77 1.80 1.50	4.5
ı	AT AP3NMBA2	10& 1 2	2	0.3866	— — — • •	• • • •	1.80	4. J
	AP3NMBA2	2 3		0.3866	333.5	•	1.80	
HYDROGRAPH AT ROUTED 24"		4	5	(0:0090	-	² NA	1.50	4.6
ROUTED 66"	NMBA4B RNMBA4B	4 5 3	6	0.0090			1.50 1.50	
	AP4 RAP4	3 6	U	0.3866			1.80	
COMBINED FLOW ROUTED 60"		5& 6 7	7 8	0.3956			1.77	
	AP5 RAP5.	7 8		0.3956	343.0		1.77	
HYDROGRAPH AT COMBINED FLOW	AT (AP5A)	1 8& 1	- 8	© .0020 0.3976	344.93		1.50	4.2
HYDROGRAPH AT HYDROGRAPH AT 1		9 10	_	0.0350		NA NA	1.50 1.50	4.52.9

O DESCRIPTION	HYDROGRAPH LABEL	FROM ID NO	TO ID NO	AREA SQ MI	DISCHARGE	CURVE	TIME TO TO PEAK HR	CFS PER ACRE
COMBINED FLOW ROUTED 60"	AT AP6	9 & 1 0 1	1 2	0.0470	125.0		1.50	
COMBINED FLOW HYDROGRAPH AT COMBINED FLOW	NMBA4D	1 2 2&8 4 3&4	3 - 5	0.0470 0.0470 0.4446 0.0050	124.7 403.1 14.5		1.50 1.50 1.70 1.50	4.5
ROUTED 66" HYDROGRAPH AT	AP7 RAP7 SMBA2B	5 5 6 7	6	0.4496 0.4496 0.0010	409.7		1.70 1.70 1.50	4.5
COMBINED FLOW HYDROGRAPH AT ROUTED	AT SMBA2B&A SMBA1A SMBA1A	6 & 7 9 9	8 - 10	0.4506 0.0550	410.0	NA	1.63 1.50	2.2
HYDROGRAPH AT COMBINED FLOW COMBINED FLOW ROUTED 72"	RSMBA1A SMBA2A' AT (AP8)	10 1 1 2 2 3	- 2 3 4	0.0550 0.0120 0.0670 0.5176	80.3	NA }	1.53 1.50 1.53 1.57	3.4
HYDROGRAPH AT COMBINED FLOW HYDROGRAPH AT COMBINED FLOW HYDROGRAPH AT HYDROGRAPH AT COMBINED FLOW ROUTED	AT MPIU) NBA1: NBA2:	3 4 5 4& 5 6& 7 6& 7 1 2 1& 2 3	- 6 - 8 - 3 4	0.5176 0.5176 0.0143 0.5319 0.0060 0.0410 0.0050	503.1 24.1 524.9 12.3 111.5 110.3	NA NA NA	1.57 1.50 1.50 1.50 1.50 1.50	 2.6 3.2 4.2 3.2
COMBINED FLOW HYDROGRAPH AT HYDROGRAPH AT HYDROGRAPH AT HYDROGRAPH AT HYDROGRAPH AT ROUTED	AP11 93.3 AT AP12 SBA1-AP14 SBA3AP14 SBA3AP14 NBT1A NBT1B	<i>f</i> 16	20 3	0.0460 0.0460 0.5839 0.0170 0.0107 0.0780 0.0780	120.7 646.4 46.2 28.0 29.1 90.4	NA NA NA	1.50 1.57 1.50 1.50 1.60 1.50	4.2 4.2 1.8 3.1
COMBINED FLOW HYDROGRAPH AT COMBINED FLOW HYDROGRAPH AT HYDROGRAPH AT COMBINED FLOW ROUTED	AT AP16 28 SBTSAPL 30:SBT5:	2 3 1&3 1&5 4&5 7 8 7&8 7&9	4 - 6 - 9 10	0.0040 0.0040 0.0110 0.0930 0.0400 0.0050 0.0450	7.2 97.2 18.7 113.7 65.4 14.4 79.8	NA NA	1.50 1.50 1.50 1.50 1.50	2.6 2.5 4.4

0 DESCRIPTION	HYDROGRAPH	FROM	TO	AREA	DISCHARGE		TIME	CFS
i i	LABEL	NO	ID NO	SQ	CFS	NO	TO PEAK HR	PERACRE
ROUTED	RAP18	10 6	1	0.0450	77.3		1.53	
t	AP16 RAP16	6 1		0.0930			1.57	
HYDROGRAPH AT	76 NBT2B	2		0.0830	126.3	NA	1.53	2.3
COMBINED FLOW HYDROGRAPH AT		1 & 2 4	3	0.1760 (0.0020		NA	1.57 1.50	4.8
COMBINED FLOW	AT AP19)	10& 4	5	0.0470	-83.2		1.53	- • -
HYDROGRAPH AT COMBINED FLOW	AT SP20	6 5&_6	7	0.0230		AN S	1.50 1.53	4.2
ROUTED 84"	AP20	7 7	8	0.0700	143.3		1.53	
COMBINED FLOW	RAP20 AT AP21	8 3&8	Q	0.0700	143.9 369.8		1.53	
HYDROGRAPH AT	27 NBT4	10	-	0.0030	£6.2°	NA	1.53 1.50	3.2
COMBINED FLOW	AT AP22	10& 9	19	0.2490	375.8	>	1.53	



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 13, 1994

James Topmiller, P.E.
Bohannan-Huston, Inc.
7500 Jefferson Street, NE
Albuquerque, New Mexico 87109

RE: GRADING PLAN FOR HIGH DESERT PHASE I/(E-23/D2)
ENGINEER'S STAMP DATED 12/8/93. RECEIVED JANUARY

ENGINEER'S STAMP DATED 12/8/93; RECEIVED JANUARY 12, 1994

FOR ROUGH GRADING PERMIT APPROVAL

Dear Mr. Topmiller:

Based on the information included in the submittal referenced above, City Hydrology approves this project for Rough Grading Permit. It is understood that only earthwork will be performed at this time. City Hydrology will sign the Grading Plan approving it for Rough Grading Permit after AMAFCA signs the Plan or we receive a letter from AMAFCA stating that their comments have been addressed and the Plan is ready for City Hydrology to sign.

The Contractor must obtain a "Topsoil Disturbance Permit" for the Environmental Health Department prior to any grading. Therefore the Erosion Control Plan must be part of the Grading Plan that will be signed.

If you have any questions about this project, you may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer/Hydrology

xc: Cliff Anderson

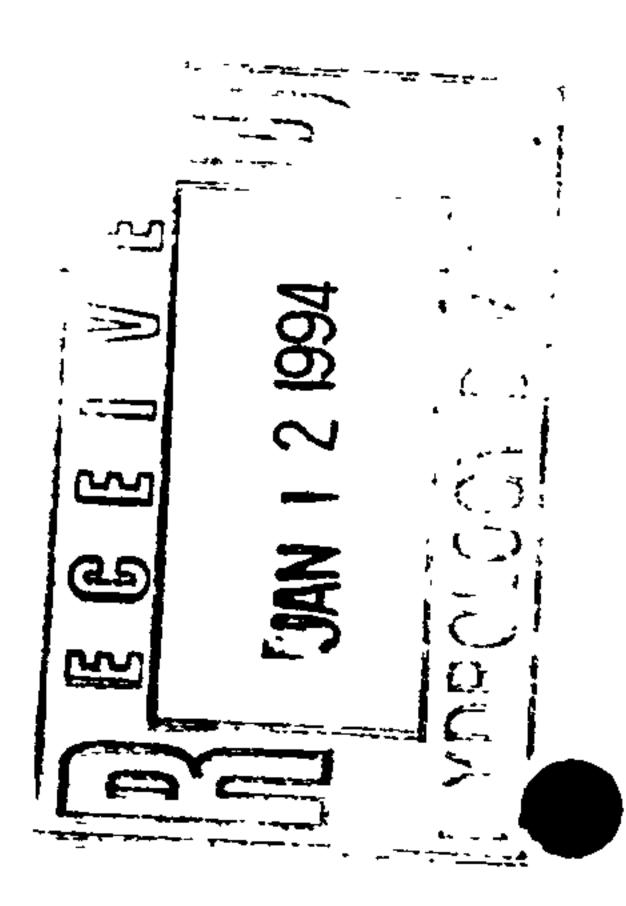
WPHYD/8236/jpc

PUBLIC WORKS DEPARTMENT

HIGH DESERT STREET HYDRAULICS

REVISED 1/12/94

Reach	Minimum Roadway Grade (%)	Street Capacity (cfs)	Q(100) (cfs)	Flow Velocity(fps)	Required Curb Type	Depth (ft)	Method of Reduction	Q(residual) (cfs)	V /2g	EGL	Allowable EGL
1	2.000%	49.6	6.2	3.35	STD	0.35	2 INLETS	2.4	0.17	0.52	0.89
2	2.000%	43.4	10.0	3.34	STD	0.34	2 INLETS	0.6	0.17	0.51	0.89
3	1.300%	41.1	6.5	2.8	STD	0.33	1 INLET (DG)	3.4	0.12	0.45	0.85
4	1.300%	6.7	6.2	2.74	ROLL	0.32	2 INLETS	1.6	0.12	0.44	0.67
5	0.740%	31.1	4.5	2.1	STD	0.32	1 INLET (LP)	0	0.07	0.39	0.85
6	0.740%	5.1	*5.0	2.09	ROLL	0.33	1 INLET (LP)	0	0.07	0.40	0.67
7	1.000%	36.1	1.1	1.75	ROLL	0.24	1 INLET (LP)	0	0.02	0.26	0.45
8	3.000%	53.2	5.9	3.75	STD	0.33	2 INLETS	0	0.22	0.55	0.97
9	1.230%	38.9	8.8	2.98	STD	0.42	2 INLETS	0.6	0.14	0.56	·
10	0.750%	5.1	**6.9	2.1	ROLL	0.32	1 INLET (LP)	0	0.07	0.40	0.63
11	0.750%	5.1	** 6.1	2.0	ROLL	0.31	1 INLET (LP)	0	0.06	0.37	0.51
12	0.884%	5.5	*3.2	2.1	ROLL	0.28	1 INLET (LP)	2.3	0.07	0.35	0.63
13	0.884%	5.5	*2.8	2.0	ROLL	0.27	1 INLET (LP)	0	0.06	0.33	0.51



^{**} Q (100) is calculated for runoff entering low point inlet from both directions. Q(100) < 4.90 cfs either side of inlet which meets min street capacity computed.

REACH	DESCRIPTION
1	Southern 1/2 of Academy Blvd.: Station 63+11.59
1N	Northern 1/2 of Academy Blvd. Station 50+30 to Station 63+11.59
2	Southern 1/2 of Academy Blvd.: Station 63+74.11 to 83+21.16
	Northern 1/2 of Academy Blvd. Station 63+11.59 to Station 83+21.16
	and eastern 1/2 of High Desert St. Station 1+00 to Station 5+08.33
	Western 1/2 of High Desert St.: Station 1+00.00 to 5+25.00
3	Eastern 1/2 of the future Imperata St.: Station 1+00.00 to 10+20.13
	Eastern 1/2 of Imperata St.: Station 10+20.13 to 16+47.25
4	Western 1/2 of Imperata St.: 10+20.13 to 16+12.75
	Eastern 1/2 of the future Imperata St.: Station 1+00.00 to 10+20.13
5	Eastern 1/2 of Imperata St.: Station 16+47.25 to 24+23.46
	Western 1/2 of Imperata St.: Station 16+12.75 to 24+23.46
	Eastern 1/2 of Imperata St.: Station 24+23.46 to 27+01.97
	Southern 1/2 of Spain Rd.: Station 67+52.21 to 79+98.11
8N	Northern 1/2 of Spain Rd. Station 67+52.21 to Station 79+98.11
	Southern 1/2 of Spain Rd.: Station 50+55.00 to 67+52.21
9N	Northern 1/2 of Spain Rd. Station 50+55.00 to Station 67+52.21
	Eastern 1/2 of Cortaderia St.: Station 55+60.63 to 69+21.37
	Western 1/2 of Cortaderia St.: Station 55+60.63 to 69+29.37
	Eastern 1/2 of Cortaderia St.: Station 49+40.49 to 55+60.63
13	Western 1/2 of Cortaderia St.: Station 49+40.49 to 55+60.63

Note:

- 1. The two low points on Cortaderia St., sta. 51+03.18 and 68+00.00, have one single grate type 'D' inlet along the eastern curb and gutter to catch all nuisance flows.
- 2. The northern 1/2 of Academy Blvd., High Desert St. and Spain Rd. have proposed estate curb and gutter allowing runoff to sheet flow to the adjacent existing natural arroyo.
- 3. The western 1/2 of Imperata St., adjacent to Reach 7, has estate type curb and gutter allowing runoff to sheet flow to the adjacent existing natural arroyo.
- 4. All reaches defined above meet the required street capacities per the C.O.A D.P.M.

LP = Low Point

^{*} Q (100) is calculated for runoff entering low point in vertical cirve from both directions.

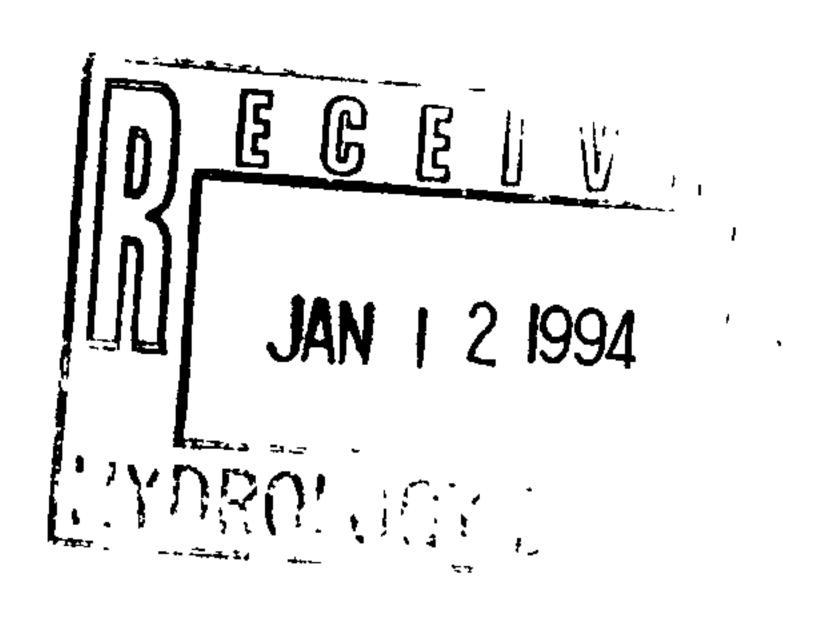
HIGH DESERT STREET HYDRAULICS

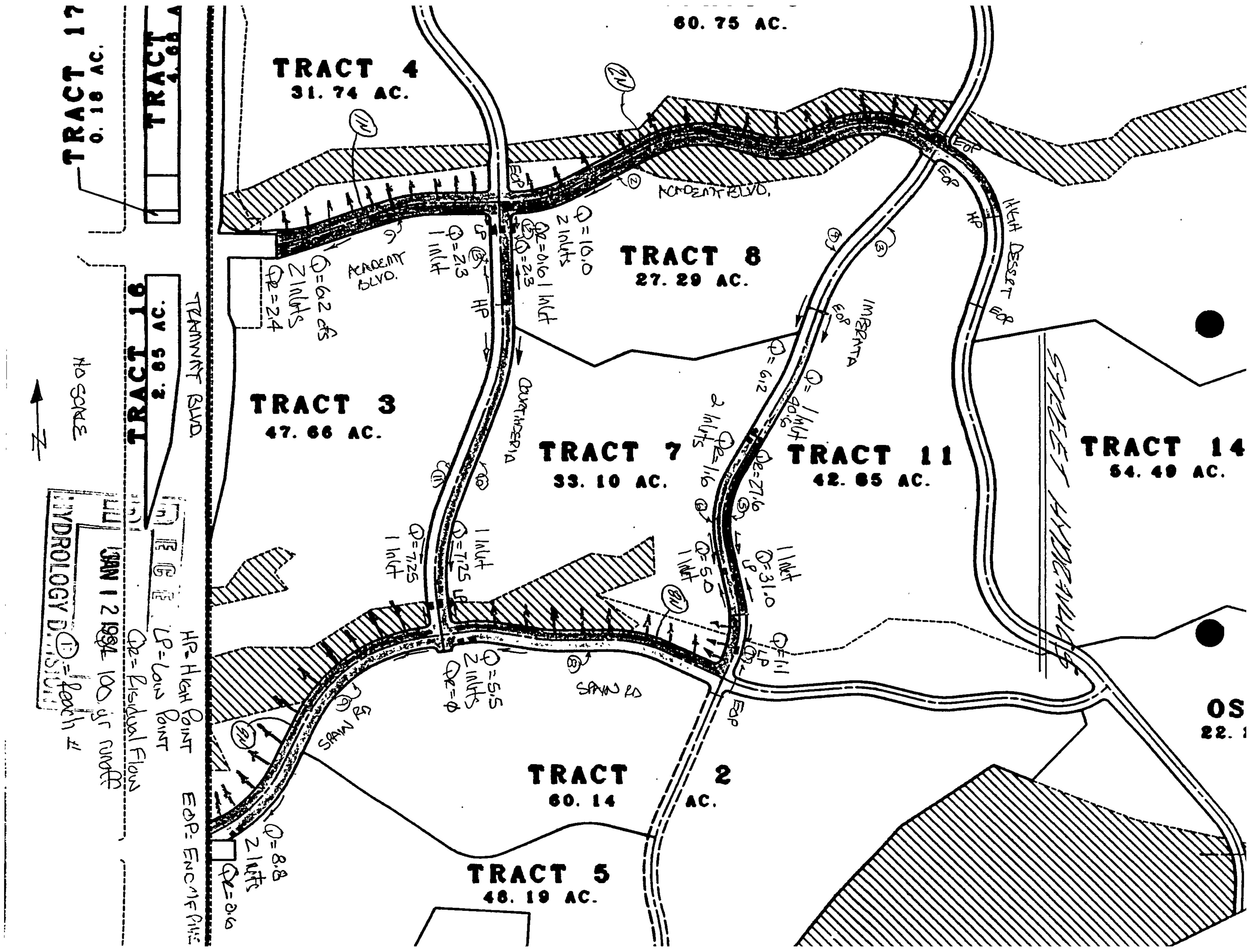
REVISED 1/12/94

	*LOCATION	· · · · · · · · · · · · · · · · · · ·	Q	 				
	OF	MAX.	@ MAX	FLOW	FLOW	V /2g	EGL	ALLOWABLE
REACH	MAX. SLOPE	SLOPE	SLOPE LOCATION	DEPTH	VELOCITY			EGL
1	57+50	5.84%	5.6	0.26	4.4	0.30	0.56	0.89
2	63+75	5.60%	11.5	0.36	5.6	0.49	0.85	0.89
3	10+40	4.88%	4.6	0.24	4.3	0.29	0.53	0.85
3	12+00	2.31%	5.1	0.27	3.3	0.17	0.44	0.85
4	10+40	4.88%	4.0	0.28	4.05	0.25	0.53	0.67
4	12+00	2.31%	4.7	0.26	3.2	0.16	0.42	0.67
5	23+15	1.9%	0.7	0.15	1.9	2.06	0.21	0.85
6	23+15	1.9%	1.0	0.17	2.0	0.06	0.23	0.67
7	25+10	2.0%	1.1	0.16	2.0	0.06	0.22	0.45
8	68+10	5.4%	5.9	0.30	4.8	0.36	0.66	0.97
9	53+20	6.5%	8.8	0.33	5.6	0.49	0.82	0.97
10	62+40	5.0%	3.4	0.21	3.9	0.24	0.45	0.63
11	62+40	5.0%	3.0	0.21	3.9	0.24	0.45	0.51
12	51+50	0.884%	5.5	0.32	2.3	0.08	0.40	0.63
13	51+50	0.884%	2.3	0.24	1.9	0.05	0.29	0.51

NOTES:

- 1. Unless otherwise noted, flow rates are for only what runoff occurs within street right-of-way since offsite flows will be discharged directly to the public SD via offsite SD pipes connecting to stubouts.
- 2. Reach 1N is essentially the same as, only slightly smaller in area, than reach 1 and separate analysis was not completed A mirror image of the inlets required for reach 1 is proposed for reach 1N.
- 3. Reaches 2N, 8N, and 9N are related to reaches 2, 8, and 9 as 1N is to 1 and were treated the same way as reach 1.





PERMANENT EASEMENT

	07h
Grant of Permanent Easement, between ("Grantor"), whose address is 6400 Wyo of Albuquerque, a New Mexico municipal co P.O. Box 1293, Albuquerque, New Mexico, 87	rporation ("City"), whose address is
Grantor grants to the City an exclusion, over, upon and across the real proper hereto ("Property") for the construction modification, replacement and operation together with the right to remove trees, obstacles upon the Property if the City appropriate use of this Easement.	ty described on Exhibit "A" attached installation, maintenance, repair, storm drain system, bushes, undergrowth and any other
Grantor covenants and warrants that G the Property, that Grantor has a good law any part thereof and that Grantor will fo the Property against all claims from all p	ful right to convey the Property or rever warrant and defend the title to
The grant and other provisions of running with the land for the benefit cassigns until terminated.	
. WITNESS my hand and seal this <u>6th</u> day	y of <u>May</u> , 19 <u>94</u> .
Consented to: ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY	GRANTOR:
By: Land Man	Not Applicable
Its: Executive Engineer Requirement for encroachment license is hereby waived; all	(Individual)
other provisions of Easement to AMAFCA and Owners Association (Bear Canyon), document No.	GRANTOR: Albuquerque Academy, Inc. By: By: Albuquerque Academy, Inc.
93128205, remain in effect.	By: [martion]
recorded in the Bernalillo County clerks office in book 93-32	(Corporation or Partnership)
page <i>3894-39/B</i> as CITY OF ALBUQUERQUE, a New	Waiver acknowledged and agreed: HIGH DESECT RESIDENTIAL OWNERS
Mexico municipal corporation	ASSOCIATION, INC., a New Mexico nonprofit corporation
By: Its:	By: Jamela S. Scanlow Its: PRESIDENT
	SIATE OF NEW MEXICO COUNTY OF BERNALILLO FILED FOR RECORD

(EXHIBIT "A" ATTACHED)

COOMIT OF DETMETTING	COUNTY	OF	Bernalillo;)
----------------------	--------	----	-------------	---

This instrument was acknowledged by [name of	before me on 31d day of
[title of capacity, for instance, "Pre PRESIDENT of [Subdivider:] Hi	sident or "Owner":]
Association. Inc. a NEXI MEXICO corporation.	corporation, on behalf of the
	Sandra a. Taylor
	Notary Public
My commission Expires:	
Coril. 17, 1998	
STATE OF New Mexico)	
COUNTY OF <u>Bernalillo</u>)	
This instrument was acknowledged bure, 19 99 by [name of]	before me on 3rd day of person:] LARRY A. BIAIR,
[title of capacity, for instance, "Pre	<u>buquerque Metropolitan Arrovo</u>
Flood Control Authority, a the corporation.	corporation, on behalf o
•	
	Notary Public
	Notary Public
My commission Expires:	
0/27/98	
STATE OF <u>New Mexico</u>)	
COUNTY OF <u>Bernalillo</u>)	
This instrument was acknowledged	before me on day of
, 19 by [name of] [title of capacity, for instance, "Pres	sident or "Owner":]
OI [Subdivider:] <u>Cit</u> corporation, on beha	ty of Albuquerque, a alf of the corporation.
	Notary Public
My commission Expires:	THE COURT ENDITE

DESCRIPTION

A certain tract of land situate within the Elena Gallegos Grant in projected Section 35, Township 11 North, Range 4 East, New Mexico Principal Meridian, Bernalillo County, Albuquerque, New Mexico, said tract being a southwesterly portion of OS-2 of Plat of HIGH DESERT, Albuquerque, New Mexico as the same is shown and designated on the Plat filed in the office of the County Clerk of Bernalillo County, New Mexico on November 23, 1993 in Volume 93C, Folio 325 and being more particularly described by New Mexico State Plane grid bearings (Central Zone) and ground distances as follows:

BEGINNING at the southwest corner of said OS-2 and from said point and place of beginning running thence along the westerly boundary line of said OS-2, N27°39'34"E, a distance of 33.24 feet to the northwest corner of the tract herein described, thence leaving the westerly boundary line of said OS-2 and running thence along the northerly boundary line of the tract herein described,

S87°50'00"E, a distance of 705.89 feet to a point on the boundary line common to OS-2 and Tract 5 of said HIGH DESERT, thence running along the boundary line common to said OS-2 and Tract 5,

S33°07'39"E, a distance of 36.76 feet to the southeast corner of the tract herein described, thence leaving said common boundary line and running thence along the southerly boundary line of the tract herein described,

N87°50'00"W, a distance of 741.43 feet to the point and place of beginning.

Tract contains 0.4984 acre, more or less.

Bohannan-Huston Inc. Courtyard I 7500 Jefferson Street NE Albuquerque, NM 87109

Job No. 94127.86

A. Dwain Weaver N.M.P.S. No. 6544

. .

6544

DESCRIPTION

A certain tract of land situate within the Elena Gallegos Grant in projected Section 35, Township 11 North, Range 4 East, New Mexico Principal Merdian, Bernalillo County, Albuquerque, New Mexico, said tract being a southwesterly portion of OS-2 of Plat of HIGH DESERT, Albuquerque, New Mexico as the same is shown and designated on the Plat filed in the office of the County Clerk of Bernalillo County, New Mexico on November 23, 1993 in Volume 93C, Folio 325 and being more particularly described by New Mexico State Plane grid bearings (Central Zone) and ground distances as follows:

BEGINNING at the southwest corner of the tract herein described, a point on the westerly boundary line of said OS-2, whence the southwest corner of said OS-2 bears S27°39'34"W, a distance of 56.23 feet and from said point and place of beginning running thence along the westerly boundary line of said OS-2,

N27°39'34"E, a distance of 72.53 feet to the northwest corner of the tract herein described, thence leaving the westerly boundary line of said OS-2 and running thence along the northerly boundary line of the tract herein described,

N52°05'37"E, a distance of 998.19 feet to the northeast corner of the tract herein described, a point on the boundary line common to said OS-2 and Tract 5 of said HIGH DESERT, thence running along the boundary line common to said OS-2 and Tract 5,

S03°13'46"W, a distance of 39.83 feet to the southeast corner of the tract herein described; thence,

S52°05'37"W, a distance of 1038.02 feet to the point and place of beginning.

Tract contains 0.7012 acre, more or less.

Bohannan-Huston Inc. Courtyard I
7500 Jefferson Street NE
Albuquerque, New Mexico 87109

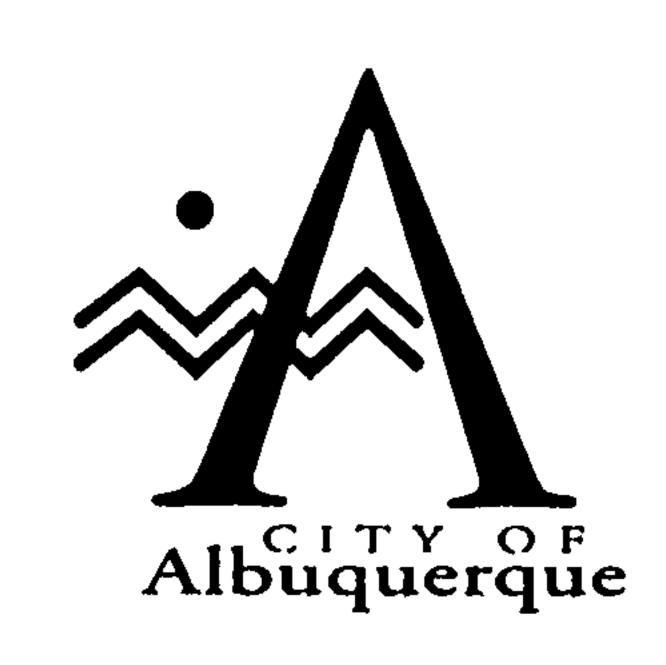
A. Dwain Weaver N.M.P.S. No. 6544

2.1994

6544

Date

Job No. 94127.86



Martin J. Chávez, Mayor

March 4, 1997

CERTIFICATION OF COMPLETION AND ACCEPTANCE

Larry Stroup President The Stroup Group, Mang. Gen. Ptr. Clara Vista, LLC 7820 Pan American Frway, Suite 4 Albuquerque, NM 87109

RE: THE AERIE AT HIGH DESERT, UNIT 1, CITY PROJECT NO. 5634 MAP NO. E-23

Dear Mr. (NAME):

This is to certify that the City of Albuquerque accepts the construction of the infrastructure provided in the Work Order Construction Plans, City Project No. 5364.90 as compliance with completing the required public infrastructure listed in the Subdivision Improvements Agreement (SIA) between Clara Vista, LLC and the City of Albuquerque executed on April 30, 1996.

Having satisfied the requirements referenced above, the SIA and any associated Financial Guaranty, held by the City, can now be released. The Contractors one-year warranty period started at the date of acceptance by the Chief Construction Engineer, dated February 24, 1997.

Please be advised this Certificate of Completion and Acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

Should you have any questions or issues regarding this project, please contact me.

John R. Castillo, P.E.

Acting City Engineer

Sincerelly

Dev. & Bld. Services Div.

Public Works Department

Good for You, Albuquerquel



CITY DAMAGETROS.

SUTIN, THAYER & BROWNE

A Professional Corporation

565 Americas Parkway N.F. Suite 16

6565 Americas Parkway, N.E., Suite 1000
Albuquerque, New Mexico 87110
Telephones 505 883 2500 Telefox: 505 888-65

Telephone: 505-883-2500 Telefax: 505-888-6565

LETTER OF TRANSMITTAL

TO:

Douglas H. Collister

Michial Emery Lawrence Kline Jonathan Young

FROM:

Hope M. Wynn, Esq.

DATE:

December 28, 1993

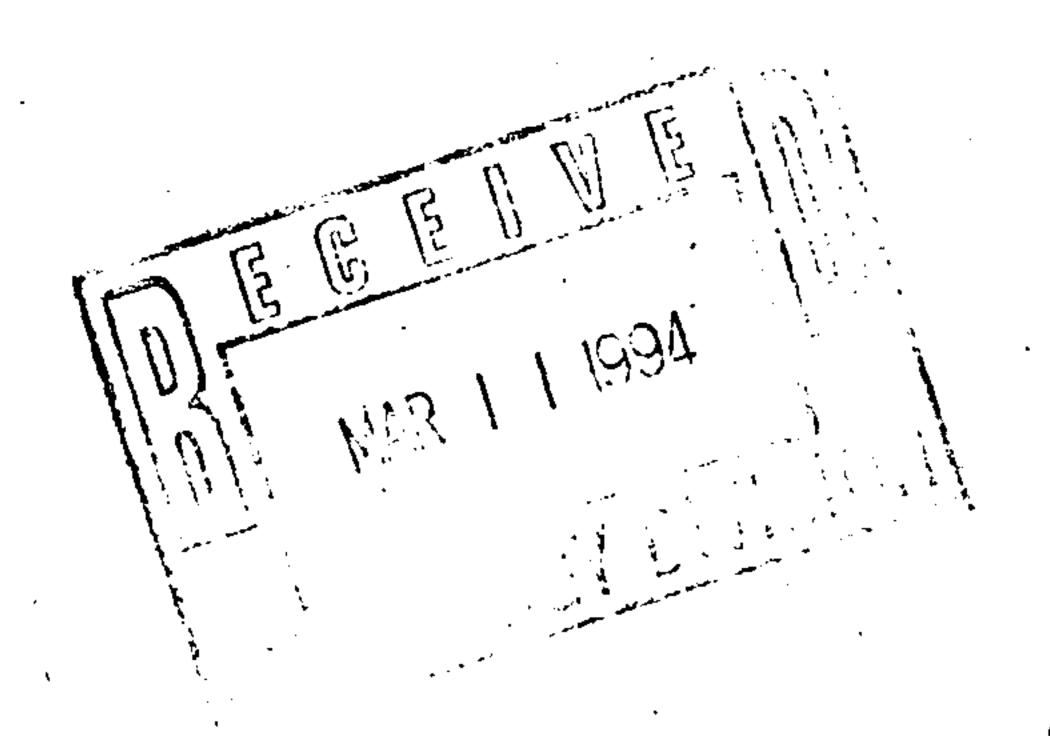
SUBJECT:

Declaration of Covenants, Conditions, and Restrictions

for High Desert Residential Properties

#Enclosed for your files is a copy of the recorded Declaration.

kd Enclosure 78235



DECLARATION OF COVENANTS, CONDITIONS, AND RESTRICTIONS FOR HIGH DESERT RESIDENTIAL PROPERTIES

HYATT & RHOADS, P.C.

Attorneys

1200 Peachtree Center South Tower 225 Peachtree Street, N.E. Atlanta, Georgia 30303 (404) 659-6600

STATE OF NEW MEXICO COUNTY OF BENNALILLO FILE FOR THE CORD

1993 DEC 22 Pri 3: 48

93-36: 1-87

Article XIII EASEMENTS

- appurtenant easements of encroachment, and for maintenance and use of any permitted encroachment, between each Unit and any adjacent Common Area and between adjacent Units due to the unintentional placement or settling or shifting of the improvements constructed, reconstructed, or altered thereon (in accordance with the terms of these restrictions) to a distance of not more than three feet, as measured from any point on the common boundary along a line perpendicular to such boundary. However, in no event shall an easement for encroachment exist if such encroachment occurred due to willful and knowing conduct on the part of, or with the knowledge and consent of, an Owner, occupant, or the Association.
- 13.2. Easements for Utilities. Etc. There are hereby reserved unto Declarant, so long as the Declarant owns any property described on Exhibits "A" or "B" of this Declaration, the Association, and the designees of each (which may include, without limitation, Bernalillo County, New Mexico and any utility) access and maintenance easements upon, across, over, and under all of the Properties to the extent reasonably necessary for the purpose of replacing, repairing, and maintaining cable television systems, master television antenna systems, security and similar systems, roads, walkways, bicycle pathways, trails, ponds, wetlands, drainage systems, street lights, signage, and all utilities, including, but not limited to, water, sewers, meter boxes, telephone, gas, and electricity, and for the purpose of installing any of the foregoing on property which it owns or within easements designated for such purposes on recorded plats of the Properties. This easement shall not entitle the holders to construct or install any of the foregoing systems, facilities, or utilities over, under or through any existing dwelling on a Unit, and any damage to a Unit resulting from the exercise of this easement shall promptly be repaired by, and at the expense of, the Person exercising the easement. The exercise of this easement shall not unreasonably interfere with the use of any Unit and, except in an emergency, entry onto any Unit shall be made only after reasonable notice to the Owner or occupant.

Declarant specifically grants to the local water supplier, electric company, and natural gas supplier easements across the Properties for ingress, egress, installation, reading, replacing, repairing, and maintaining utility meters and boxes. However, the exercise of this easement shall not extend to permitting entry into the dwelling on any Unit, nor shall any utilities be installed or relocated on the Properties, except as approved by the Board or Declarant.

Water. The Declarant reserves for itself, and its successors, assigns, and designees the nonexclusive right and easement, but not the obligation, to enter upon any arroyo or conservation easement located within the Area of Common Responsibility to (a) install, keep, maintain, and replace pumps in order to provide water for the irrigation of any of the Area of Common Responsibility; (b) construct, maintain, and repair any structure designed to divert, collect or retain water; and (c) remove trash and other debris. The Declarant's rights and easements provided in this Section shall be

transferred to the Association at such time as the Declarant shall cease to own any property subject to the Declaration, or such earlier time as Declarant may elect, in its sole discretion, to transfer such rights by a written instrument. The Declarant, the Association, and their designees shall have an access easement over and across any of the Properties abutting or containing any portion of any arroyo or conservation easement to the extent reasonably necessary to exercise their rights under this Section.

There is further reserved herein for the benefit of Declarant and the Association, and their designees, a perpetual, nonexclusive right and easement of access and encroachment over the Common Area and Units (but not the dwellings thereon) adjacent to or within 50 feet of lake beds, ponds, streams and arroyos within the Properties, in order to (a) temporarily flood and back water upon and maintain water over such portions of the Properties; (b) maintain and landscape the slopes and banks of such ponds, streams, and arroyos; and (c) enter upon and across such portions of the Properties for the purpose of exercising its rights under this Section. All Persons entitled to exercise these easements shall use reasonable care in, and repair any damage resulting from the intentional exercise of such easements. Nothing herein shall be construed to make Declarant or any other Person liable for damage resulting from flooding due to heavy rainfall or other natural disasters.

13.4. Easements to Serve Additional Property. The Declarant hereby reserves for itself and its duly authorized agents, representatives, employees, successors, assigns, licensees, and mortgagees, an easement over the Common Area for the purposes of enjoyment, use, access, and development of the property described in Exhibit "B," whether or not such property is made subject to this Declaration. This easement includes, but is not limited to, a right of ingress and egress over the Common Area for construction of roads and for connecting and installing utilities on such property. Declarant agrees that it and its successors or assigns shall be responsible for any damage caused to the Common Area as a result of vehicular traffic connected with development of such property. Declarant further agrees that if the easement is exercised for permanent access to such property and such property or any portion thereof is not made subject to this Declaration, the Declarant, its successors or assigns shall enter into a reasonable agreement with the Association to share the cost of maintenance of any access roadway serving such property.

13.5. Easements for Golf Course.

(a) Every Unit and the Common Area and the common property of any Village Association are burdened with an easement permitting golf balls unintentionally to come upon such Common Area, Units or common property of a Village and for golfers at reasonable times and in a reasonable manner to come upon the Common Area, common property of a Village, or the exterior portions of a Unit to retrieve errant golf balls; provided, however, if any Unit is fenced or walled, the golfer shall seek the Owner's permission before entry. The existence of this easement shall not relieve golfers of liability for damage caused by errant golf balls. Under no circumstances shall any of the following Persons be held liable for any damage or injury resulting from errant golf balls or the exercise of this easement: the Declarant; the Association or its Members (in their capacity as such); High

Desert Investment Corporation; its successors, successors-in-title to the Golf Course, or assigns; any successor Declarant; any builder or contractor (in their capacities as such); any officer, director or partner of any of the foregoing, or any officer or director of any partner.

- (b) The owner of the Golf Course, its respective agents, successors and assigns, shall at all times have a right and non-exclusive easement of access and use over those portions of the Common Areas reasonably necessary to the operation, maintenance, repair and replacement of the respective Golf Course.
- (c) The Properties immediately adjacent to the Golf Course are hereby burdened with a non-exclusive easement in favor of the Golf Course for overspray of water from any irrigation system serving the Golf Course. Under no circumstances shall the Association or the owners of the Golf Course be held liable for any damage or injury resulting from such overspray or the exercise of this easement.
- (d) The owner of the Golf Course, its respective successors and assigns, shall have a perpetual, exclusive easement of access over the Properties for the purpose of retrieving golf balls from bodies of water within the Common Areas lying reasonably within range of golf balls hit from the Golf Course.
- Area shall be burdened with easements for drainage of storm water runoff from other portions of the Properties; provided, however, no Person shall alter the drainage on any Unit so as to materially increase the drainage of storm water onto adjacent portions of the Properties without the consent of the Owner of the affected property. Each Unit and the Common Area shall be burdened with such easements for drainage of storm water runoff as may be shown on plats or reflected on plats relating to such Unit or Common Area, as applicable, recorded in the Office of the County Clerk of Bernalillo County, New Mexico.
- 13.7. Right of Entry. The Association shall have the right, but not the obligation, to enter upon any Unit for emergency, security, and safety reasons, to perform maintenance pursuant to Article V hereof, and to inspect for the purpose of ensuring compliance with this Declaration, any Supplemental Declaration, By-Laws, and rules, which right may be exercised by any member of the Board, the Association, officers, agents, employees, and managers, and all policemen, firemen, ambulance personnel, and similar emergency personnel in the performance of their duties. Except in an emergency situation, entry shall only be during reasonable hours and after notice to the Owner. This right of entry shall include the right of the Association to enter upon any Unit to cure any condition which may increase the possibility of a fire or other hazard in the event an Owner fails or refuses to cure the condition within a reasonable time after requested by the Board, but shall not authorize entry into any single family detached dwelling without permission of the Owner, except by emergency personnel acting in their official capacities.

within the Properties and the Association shall be entitled to use the words "High Desert" in its name.

- 18.8. Compliance. Every Owner and occupant of any Unit shall comply with this Declaration, the By-Laws, and the rules of the Association. Failure to comply shall be grounds for an action to recover sums due, for damages or injunctive relief, or for any other remedy available at law or in equity, by the Association or, in a proper case, by any aggrieved Unit Owner(s).
- 18.9. Notice of Sale or Transfer of Title. Any Owner desiring to sell or otherwise transfer title to his or her Unit shall give the Board at least seven days' prior written notice of the name and address of the purchaser or transferee, the date of such transfer of title, and such other information as the Board may reasonably require. The transferor shall continue to be jointly and severally responsible with the transferee for all obligations of the Owner of the Unit, including assessment obligations, until the date upon which such notice is received by the Board, notwithstanding the transfer of title.

IN WITNESS WHEREOF, the undersigned Declarant has executed this Declaration this 22 day of December 1993.

	DECLARANT:	HIGH DESERT INVESTMENT CORPORATION, a New Mexico corporation
	ADDRESS:	ALBUGUERQUE, NUI 87109
	By:	Darles Blullint
	Name: Title:	PRESIDENT
	Attest: Name: Title:	Exil Bambon Secretary
STATE OF NEW MEXICO COUNTY OF BERNALILLO) ss.)	

This instrument was acknowledged before me on Accember 32, 1993, by D.H. Collistee and R.L. Bovingto Of the Depart Investment Cop, a corporation, on behalf of the corporation.

Notary Public

My commission expires:

DOCS3693 - 12/14/93