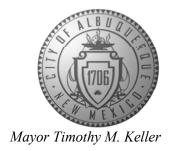
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



September 8, 2023

Fred C. Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM 87108

RE: 6705 Saltbrush Court NE

Grading Plan & Drainage Report Engineer's Stamp Date: 08/30/23

Hydrology File: E23D033

Dear Mr. Arfman:

PO Box 1293

Based upon the information provided in your submittal received 08/30/2023, the Grading Plan & Drainage Report are approved for Building Permit and Grading Permit. Since this site has stim walls, a pad certification is not needed for this project. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

www.cabq.gov

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

Renée C. Brissette



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Lot 68, Mountain Highlands Project Title: @ High Desert Unit 2	Building Permit #	Hydrology File # F23
DRB#	EPC#	
Legal Description: Lot 68 Mountain Highlan		ss OR Parcel 6705 Saltbush Ct N
High Desert, Unit 2	<u></u> 210) 110.0101	2 211 W 22 O C C C C C C C C C C C C C C C C C
Applicant/Agent: Isaacson & Arfman, Inc.	Contact: F	ed C. Arfman / Bryan J. Bobrick
Address: 128 Monroe Street NE		(505) 268-8828
Email: freda@iacivil.com or bryanb@iaciv		(000) 200 0020
Eman. Hoda @ Idolvii. Son or bryans @ Idolv	11.00111	
Applicant/Owner:	Contact:	
Address:		
Email:		
TYPE OF DEVELOPMENT:PLAT (#of lo	ots) RESIDENCE XI	ORB SITE ADMIN SITE:
RE-SUBMITTAL: YES X NO		
122		
DEPARTMENT: TRANSPORTATIO	N x HYDROLOG	Y/DR AINAGE
Check all that apply:	<u>χ</u>	1,514,111,1152
•••		
TYPE OF SUBMITTAL:	TYPE OF APPROV	AL/ACCEPTANCE SOUGHT:
ENGINEER/ARCHITECT CERTIFICATION	X BUILDIN	G PERMIT APPROVAL
PAD CERTIFICATION	CERTIFIC	CATE OF OCCUPANCY
CONCEPTUAL G&D PLAN	CONCEPT	TUAL TCL DRB APPROVAL
X GRADING PLAN	PRELIMIN	NARY PLAT APPROVAL
DRAINAGE REPORT		N FOR SUB'D APPROVAL
DRAINAGE MASTER PLAN		N FOR BLDG PERMIT APPROVAL
FLOOD PLAN DEVELOPMENT PERMIT AI		AT APPROVAL
ELEVATION CERTIFICATE	SIA/RELE	ASE OF FINANCIAL GUARANTEE
CLOMR/LOMR	FOUNDA	ΓΙΟΝ PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	GRADING	G PERMIT APPROVAL
ADMINISTRATIVE	SO-19 AP	
TRAFFIC CIRCULATION LAYOUT FOR DE	RBPAVING I	PERMIT APPROVAL
APPROVAL	GRADING	G PAD CERTIFICATION
TRAFFIC IMPACT STUDY (TIS)	WORK OF	RDER APPROVAL
STREET LIGHT LAYOUT	CLOMR/L	OMR
X_OTHER (SPECIFY) Supplemental Information	ationFLOOD P	LAN DEVELOPMENT PERMIT
PRE-DESIGN MEETING?	OTHER (S	SPECIFY)
DATE SUBMITTED: August 30, 2023		
DATE SUBMITTED		

AUGUST 30, 2023

Supplemental Information

for

Lot 68, Mountain Highlands at High Desert, Unit 2

6705 Saltbush Ct., NE Albuquerque, NM

Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

DATE: 09/08/23

BY: E23D033

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF A LBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS, SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

City of Albuquerque

Grading and Drainage Plan Submittal



I&A Project No. 2560

Project Information

<u>PROPERTY</u>: THE SITE IS AN UNDEVELOPED RESIDENTIAL LOT BOUND ON THE NORTH AND EAST BY PAVED ROADS, ON THE WEST BY A DEVELOPED RESIDENTIAL LOT, AND ON THE SOUTH BY AN UNDEVELOPED RESIDENTIAL LOT.

<u>PROPOSED IMPROVEMENTS</u>: THE PROPOSED IMPROVEMENTS INCLUDE A NEW PRIVATE RESIDENCE WITH ASSOCIATED PAVED ACCESS DRIVE AND SITE AMENITIES.

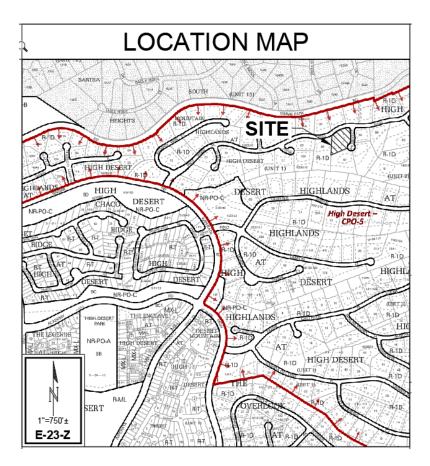
LEGAL: LOT 68, OF MOUNTAIN HIGHLANDS UNIT 2, ALBUQUERQUE, NEW MEXICO.

BENCHMARK: ACS BRASS CAP STAMPED "1-D24 RESET 1973/1995".

LOT SIZE: 1.0101 ACRES ±

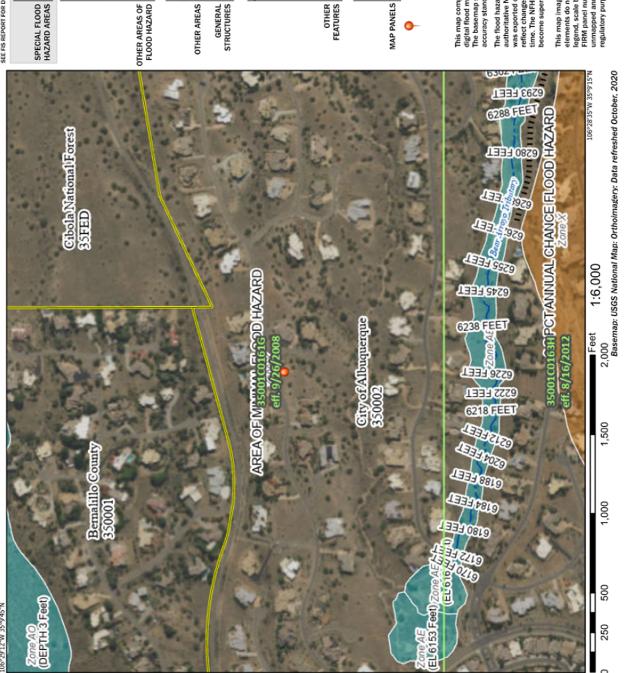
<u>OFF-SITE</u>: APPROXIMATELY 15.0 CFS OF OFF-SITE FLOWS WILL BE ROUTED AROUND THE PROPOSED DEVELOPMENT.

<u>FLOOD HAZARD</u>: PER SANDOVAL COUNTY FIRM MAP #35001C0161G, EFF. 9/26/2008, THE SITE IS LOCATED WITHIN FLOODZONE 'X' DESIGNATED AS AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.



National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

Without Base Flood Elevation (BFE)

SPECIAL FLOOD HAZARD AREAS

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average With BFE or Depth Zone AE, AO, AM, VE, AR Regulatory Floodway

areas of less than one square mile Zon

depth less than one foot or with drainage

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Flood Risk due to Levee Zone I Area with Reduced Flood Risk due to Levee. See Notes, Zone X

Area of Undetermined Flood Hazard Zone D **Effective LOMRs**

NO SCREEN Area of Minimal Flood Hazard Zone

- - - Channel, Culvert, or Storm Sewer GENERAL | ---- Channel, Culvert, or Storn STRUCTURES | 1111111 Levee, Dike, or Floodwall OTHER AREAS

B 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation

Base Flood Elevation Line (BFE) Coastal Transect Limit of Study

Coastal Transect Base Jurisdiction Boundary

Hydrographic Feature Profile Baseline OTHER FEATURES

Digital Data Available

No Digital Data Available Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/6/2022 at 6:19 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes

EXISTING CONDITIONS:

The site is undeveloped and is bound to the north and east by paved roads with estate curbs; to the west by a developed lot; and to the south by an undeveloped lot. Offsite flows of approximately 15 cfs enter the lot at the northeast corner and combines with the onsite flows of 2.2 cfs and discharges at the southwest corner at a rate of 17.2 cfs.

PROPOSED CONDITIONS:

The lot will be developed with a new residential home with associated paved driveway, walks and site amenities. The grading and drainage plan shall conform to the Sustainability Guidelines for Estate Lots in addition to the *Drainage Report for Unit 2 Mountain Highlands at High Desert* (DMP), by Bohannan Huston, Inc., dated August 23, 2002

The developed site shall follow the historical drainage paths and limit disturbance of the land outside of the building envelope to the greatest extent feasible.

Two culverts shall be installed under the walkway from the residence to Saltbush Ct. to convey the offsite flows to the south. A storm drain system will convey the roof discharge to two ponds that will provide water harvesting and desiltation.

HYDROLOGY & DRAINAGE IMPROVEMENTS:

See Appendix A for the following:

- Basin exhibit;
- Land treatment calculations;
- Drainage calculations for existing and developed conditions based on City of Albuquerque DPM Article 6-2 Hydrology;
- Culvert calculations;
- Weir calculations;
- Excerpts from *Drainage Report for Unit 2 Mountain Highlands at High Desert*, by Bohannan Huston, Inc., (DMP) dated August 23, 2002.

HYDROLOGY:

EXISTING: The site is located in Basin SPT-7A-R1 as shown in the DMP. This basin is 6.98 ac. and generates 22.64 cfs in the 100-yr, 6-hr storm which equates to 3.24 cfs per acre. Approximately two thirds of this basin, 15 cfs, enters this site at the northeast corner of the lot.

There is an existing cross-lot drainage easement that allows offsite flows to pass across the lots (See Appendix A).

In the existing conditions, the site generates 2.2 cfs; 0.1 cfs discharges to Pino Ridge Pl. and the remaining flow combined with the offsite flow discharges 17.1 cfs to the southwest corner of the lot.

DEVELOPED: The developed site generates 2.9 cfs (2.87 cfs per acre) and will drain per the historical drainage paths. The site has been divided into 6 basins as shown on the basin exhibit in Appendix A.

<u>Basin 1</u>: 0.3 cfs combines with the offsite flow of 15 cfs for a total of 15.3 cfs at the two 18" culverts that crosses the sidewalk from the residence to Saltbush Ct.

Basin 2: 0.2 cfs combines with the 15.3 cfs from the culverts for a total of 15.5 cfs entering Pond #2.

Basins 3 & 4: 1.5 cfs discharges to Pond # 1.

Basin 5: 0.1 cfs discharges to Pino Ridge Pl.

<u>Basin 6</u>: 0.8 cfs combines with flows from Ponds #1 & #2 for a total discharge at the southwest corner of the lot of 17.8 cfs.

DRAINAGE IMPROVEMENTS: See Appendix B for grading and drainage plan.

Erosion protection shall be installed at slope transitions >3:1 side slopes; at pipe inlets and outlets; at roof canales and wall openings per grading plan.

Two 18" culverts shall be installed under the sidewalk connecting to Saltbush Ct.

Storm drains shall be installed to convey the roof flows to the ponds;

Two desiltation/water harvesting ponds shall be installed with weir outflow per plan.

SUMMARY:

The 1.01-acre lot will be developed with a new residential home with associated paved driveway, walks and site amenities. The developed site shall follow the historical drainage paths and limit disturbance of the land outside of the building envelope to the greatest extent feasible.

Drainage improvements, including culverts, storm drain, water harvesting/desiltation ponds and erosion protection, shall be installed as shown in the grading and drainage plan.

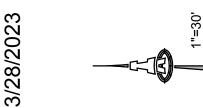
APPENDIX A

- Basin exhibit;
- Land treatment calculations;
- Drainage calculations for existing and developed conditions based on City of Albuquerque DPM Article 6-2 Hydrology;
- Culvert calculations;
- Weir calculations;
- Excerpts from *Drainage Report for Unit 2 Mountain Highlands at High Desert*, by Bohannan Huston, Inc., dated August 23, 2002.

OFFSITE FLOW FROM BASIN SPT-7A-R1=15.0 CFS EXISTING CONDITIONS: BASIN 5-EX: 0.1 CFS BASINS 1-4 & 6" 2.1 CFS HSUBTJAS COURT RIM=38.72 \bigcirc WATER HARVESTING, DESILTATION POND Q100YR-6HR =15.3 CFS Ö Q100YR-6HR =15.5 CFS CULVERTS 2-18" CMP BASIN 1 0.145 AC. 0.3 CFS 0.071 AC. 0.2 CFS **BASIN 2** 盟 BASIN 5 0.048 AC. 0.1 CFS -0.136 AC.-BASIN 3 \$ IN ONIA BASIN 6 0.337 AC 0.8 CFS Q100YR-6HR =1.5 CFS (EXISTING=17.1 CFS) Q100YR-6HR=0.1 CFS © (EXISTING=0.1 CFS) 0.271 AC. Q100YR-6HR **BASIN 4** =17.8 CFS WATER HARVESTING, DESILTATION POND

DRAINAGE BASIN EXHIBIT

LOT 68, OF MOUNTAIN HIGHLANDS UNIT 2 SUBDIVISON ALBUQUERQUE, NEW MEXICO





PROJECT NAME: Lot 68, Mountain Highlands
JOB NUMBER: 2560 at High Desert, Unit 2

Onsite Total Area 44,002 sf 1.010 ac.

Basin	Area (sf)	Area (ac.)	Impervious Area (sf)	%D	Graded Area* (sf)	%C	%В	%A
1	6,337	0.15	-	0	1,531	12	12	76
2	3,111	0.07	624	20	2,487	40	40	0
3	5,929	0.14	2,924	49	2,507	21	21	9
4	11,818	0.27	4,891	41	5,467	23	23	12
5	2,109	0.05	-	0	-	0	10	90
6	14,698	0.34	156	1	2,623	9	9	81
	44,002	1.01	8,595		14,615			

^{*}Outside building envelope

DO NOT ENTER ANY JOB INFORMATION HERE - ONLY ON PAGE 1 $\,$

Job Name:		in Highlands at High Desert, Unit 2	
Client: Date Prepared:	Las Ventanas NM, 3/28/2023	Inc.	Stormwater Quality Multiplier:
Date Modified:	0		0.42
Precipitation Zone:	4		ENTER MULTIPLIER HERE
	For Zone 4		
	EA =	0.76 QpA	
	EB = EC =	0.95 QpB 1.20 QpC	
	ED =	3.34 QpD	
DACIN NO. 1		DESCRIPTION	TO CHI VERTE & DOND 2
BASIN NO. 1 Area of basin flows =	6337	SF =	TO CULVERTS & POND 2 0.145 Ac.
The following calculation		atment %'s as shown in table to the right	LAND TREATMENT
	Sub-basin Weighted E	ed Excess Precipitation: = 0.84 in.	A = 76% B = 12%
	Sub-basin Volume		C = 12%
	V ₃₆₀	= 441 CF	D = 0%
	Sub-basin Peak Di		Stormwater Quality Volume
DAGIN NO.	Q_P	= 0.3 cfs	0 CF
BASIN NO. 2 Area of basin flows =	3111	SF =	TO POND 2 0.071 Ac.
		atment %'s as shown in table to the right	LAND TREATMENT
		ed Excess Precipitation:	A = 0%
	Weighted E	= 1.53 in.	B = 40%
	Sub-basin Volume V ₃₆₀	= 396 CF	C = 40% D = 20%
	Sub-basin Peak Di		Stormwater Quality Volume
	Q_P	= 0.2 cfs	22 CF
BASIN NO. 3		DESCRIPTION	TO POND 1
Area of basin flows =	5929	SF = atment %'s as shown in table to the right	0.136 Ac. LAND TREATMENT
The following calculation		ed Excess Precipitation:	A = 9%
	Weighted E	= 2.16 in.	B = 21%
	Sub-basin Volume		C = 21%
	Sub-basis Bask Di	= 1065 CF	D = 49%
	Sub-basin Peak Di Q _P	= 0.5 cfs	Stormwater Quality Volume 102 CF
BASIN NO. 4		DESCRIPTION	TO POND 1
Area of basin flows =	11818	SF =	0.271 Ac.
The following calculation		atment %'s as shown in table to the right	LAND TREATMENT
	Weighted E	ed Excess Precipitation: = 1.96 in.	A = 12% B = 23%
	Weighted E		
	Sub-basin Volume	of Runoff:	C = 23%
	Sub-basin Volume V ₃₆₀	of Runoff: = 1925 CF	C = 23% D = 41%
	V ₃₆₀ Sub-basin Peak Di	= 1925 CF scharge Rate:	D = 41% Stormwater Quality Volume
RASIN NO 5	V ₃₆₀ Sub-basin Peak Di Q _P	= 1925 CF scharge Rate: = 1.0 cfs	D = 41% Stormwater Quality Volume 170 CF
BASIN NO. 5 Area of basin flows =	V ₃₆₀ Sub-basin Peak Di Q _P	= 1925 CF scharge Rate:	D = 41% Stormwater Quality Volume
Area of basin flows =	V ₃₆₀ Sub-basin Peak Di Q _P S 2109 ons are based on Trea	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = attment %'s as shown in table to the right	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT]
Area of basin flows =	Sub-basin Peak Di QP Sub-basin Peak Di QP Sub-basin Veighte	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = stament %'s as shown in table to the right at Excess Precipitation:	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. LAND TREATMENT A = 90%
Area of basin flows =	Sub-basin Peak Di QP S 2109 uns are based on Tree Sub-basin Weighted Weighted E	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = stament %'s as shown in table to the right add Excess Precipitation: = 0.78 in.	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10%
Area of basin flows =	Sub-basin Peak Di QP Sub-basin Peak Di QP Sub-basin Veighte	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = stament %'s as shown in table to the right add Excess Precipitation: = 0.78 in.	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. LAND TREATMENT A = 90%
Area of basin flows =	Sub-basin Peak Di QP 5 2109 uns are based on Tres Sub-basin Weighted Weighted E Sub-basin Volume	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = stament %'s as shown in table to the right ad Excess Precipitation: = 0.78 in. of Runoff: = 137 CF	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0%
Area of basin flows = The following calculatio	V ₃₆₀ Sub-basin Peak Di Qp S 2109 sns are based on Tres Sub-basin Weighted E Sub-basin Volume V ₃₆₀	= 1925 CF	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0% D = 0% Stormwater Quality Volume 0 CF
Area of basin flows = The following calculatio	V ₃₆₀ Sub-basin Peak Di Q _P Sub-basin Volume Weighted E Sub-basin Volume V ₃₆₀ Sub-basin Peak Di Q _P	1925 CF	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0% D = 0% Stormwater Quality Volume 0 CF TO SW CORNER OF LOT
Area of basin flows = The following calculation BASIN NO. Gara of basin flows =	V ₃₆₀ Sub-basin Peak Di Qp Sub-basin Peak Di Qp Sub-basin Weighted E Sub-basin Volume V ₃₆₀ Sub-basin Peak Di Qp G Sub-basin Peak Di Qp Sub-basin Peak Di Sub-b	= 1925 CF	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0% D = 0% Stormwater Quality Volume 0 CF
Area of basin flows = The following calculation BASIN NO. Gara of basin flows =	V ₃₆₀ Sub-basin Peak Di Qp 3 2109 ns are based on Tree Sub-basin Weighted E Sub-basin Volume V ₃₆₀ Sub-basin Peak Di Qp 14698 ns are based on Tree	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = ttment %'s as shown in table to the right ed Excess Precipitation: = 0.78 in. of Runoff: = 137 CF scharge Rate: = 0.1 cfs DESCRIPTION SF = 100 CF	D = 41% Stormwater Quality Volume 170 CF 170 PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0% D = 0% Stormwater Quality Volume 0 CF TO SW CORNER OF LOT 0.337 Ac. [LAND TREATMENT] A = 81%
Area of basin flows = The following calculation BASIN NO. Gara of basin flows =	Sub-basin Peak Di Qp Sub-basin Peak Di Qp Sub-basin Weighted E Sub-basin Volume V ₃₆₀ Sub-basin Peak Di Qp Sub-basin Peak Di Sub-basin Weighted E Sub-basin Weighted E Weighted E Weighted E	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = threat %'s as shown in table to the right of Excess Precipitation: = 0.78 in. of Runoff: = 137 CF scharge Rate: = 0.1 cfs DESCRIPTION SF = threat %'s as shown in table to the right of Excess Precipitation: = 0.84 in.	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0% D = 0% Stormwater Quality Volume 0 CF TO SW CORNER OF LOT 0.337 Ac. [LAND TREATMENT] A = 81% B = 9%
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Area of basin flows = The following calculation BASIN NO. Gara of basin flows =	V ₃₆₀ Sub-basin Peak Di Qp 3 2109 sns are based on Tres Sub-basin Weighted Weighted E Sub-basin Volume V ₃₆₀ Sub-basin Peak Di Qp 3 14698 sns are based on Tres Sub-basin Weighted Weighted Weighted Sub-basin Volume V ₃₆₀	1925 CF	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0% D = 0% Stormwater Quality Volume 0 CF TO SW CORNER OF LOT 0.337 Ac. [LAND TREATMENT] A = 81% B = 9% C = 9% D = 1%
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Area of basin flows = The following calculation BASIN NO. Area of basin flows = The following calculation BASIN NO. S-EXS	V ₃₆₀ Sub-basin Peak Di Q _P Sub-basin Peak Di Q _P Sub-basin Weighted E Sub-basin Volume V ₃₆₀ Sub-basin Peak Di Q _P Sub-basin Volume Q _P Sub-basin Volume Q _P Sub-basin Volume V ₃₆₀ Sub-basin Volume V ₃₆₀ Sub-basin Peak Di Q _P Sub-basin Peak Di Q _P	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = 0.78 in. of Runoff: = 137 CF scharge Rate: = 0.1 cfs DESCRIPTION SF = 1.00 cfs O 78 in. of Runoff: = 1.00 cfs DESCRIPTION SF = 0.1 cfs DESCRIPTION SF = 0.1 cfs DESCRIPTION SF = 0.84 in. of Runoff: = 1032 CF scharge Rate: = 0.8 cfs DESCRIPTION	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0% D = 0% Stormwater Quality Volume 0 CF TO SW CORNER OF LOT 0.337 Ac. [LAND TREATMENT] A = 81% B = 9% C = 9% D = 1% Stormwater Quality Volume 5 CF EXISTING FLOW TO PINO RIDGE
Area of basin flows = The following calculation BASIN NO. Area of basin flows = The following calculation BASIN NO. 5-EXS Area of basin flows =	V ₃₆₀ Sub-basin Peak Di Q _p Sub-basin Peak Di Q _p Sub-basin Weighted E Sub-basin Volume V ₃₆₀ Sub-basin Volume Q _p 14698 Insa are based on Tree Sub-basin Weighted E Sub-basin Volume V ₃₆₀ Sub-basin Volume V ₃₆₀ Sub-basin Peak Di Q _p Sub-basin Peak Di Q _p C ₁ Q ₁ Q ₁ Q ₁ Q ₂ Q ₃ Q ₄ Q ₅ Q ₆ Q ₇ Q ₇ Q ₈ Q	= 1925 CF scharge Rate: = 1.0 cfs DESCRIPTION SF = stament %'s as shown in table to the right and Excess Precipitation: = 0.78 in. of Runoff: = 137 CF scharge Rate: = 0.1 cfs DESCRIPTION SF = 0.1 cfs DESCRIPTION SF = 0.84 in. of Runoff: = 1032 CF scharge Rate: = 0.84 in. of Runoff: = 0.84 in. of Runoff: = 0.84 in. of Runoff: = 0.84 in. of Scharge Rate: = 0.8 cfs DESCRIPTION SF = 0.8 cfs	D = 41% Stormwater Quality Volume 170 CF TO PINO RIDGE 0.048 Ac. [LAND TREATMENT] A = 90% B = 10% C = 0% D = 0% Stormwater Quality Volume 0 CF TO SW CORNER OF LOT 0.337 Ac. [LAND TREATMENT] A = 81% B = 9% C = 9% D = 1% Stormwater Quality Volume 5 CF EXISTING FLOW TO PINO RIDGE 0.0 Ac.
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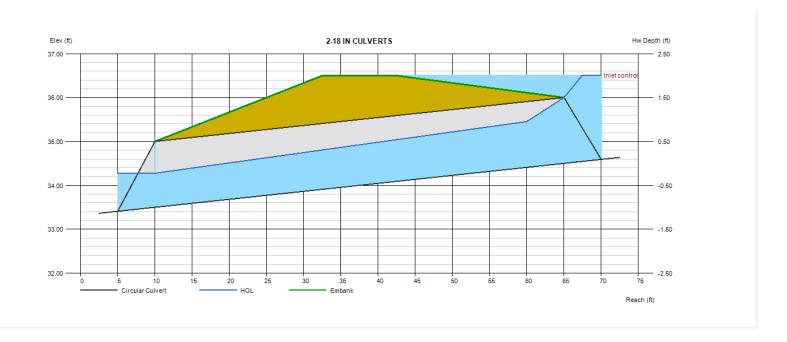
Culvert Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Thursday, Mar 30 2023

2-18 IN CULVERTS

Invert Elev Dn (ft)	= 33.50	Calculations	
Pipe Length (ft)	= 55.00	Qmin (cfs)	= 15.30
Slope (%)	= 1.82	Qmax (cfs)	= 15.30
Invert Elev Up (ft)	= 34.50	Tailwater Elev (ft)	= 0.00
Rise (in)	= 18.0		
Shape	= Circular	Highlighted	
Span (in)	= 18.0	Qtotal (cfs)	= 15.30
No. Barrels	= 2	Qpipe (cfs)	= 15.30
n-Value	= 0.012	Qovertop (cfs)	= 0.00
Culvert Type	 Circular Corrugate Metal Pipe 	Veloc Dn (ft/s)	= 8.30
Culvert Entrance	= Mitered to slope (C)	Veloc Up (ft/s)	= 5.67
Coeff. K,M,c,Y,k	= 0.021, 1.33, 0.0463, 0.75, 0.7	HGL Dn (ft)	= 34.28
		HGL Up (ft)	= 35.57
Embankment		Hw Elev (ft)	= 36.51
Top Elevation (ft)	= 36.50	Hw/D (ft)	= 1.34
Top Width (ft)	= 10.00	Flow Regime	= Inlet Control
Crest Width (ft)	= 10.00		



Weir Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Thursday, Mar 30 2023

5-FT WEIR AT POND 1

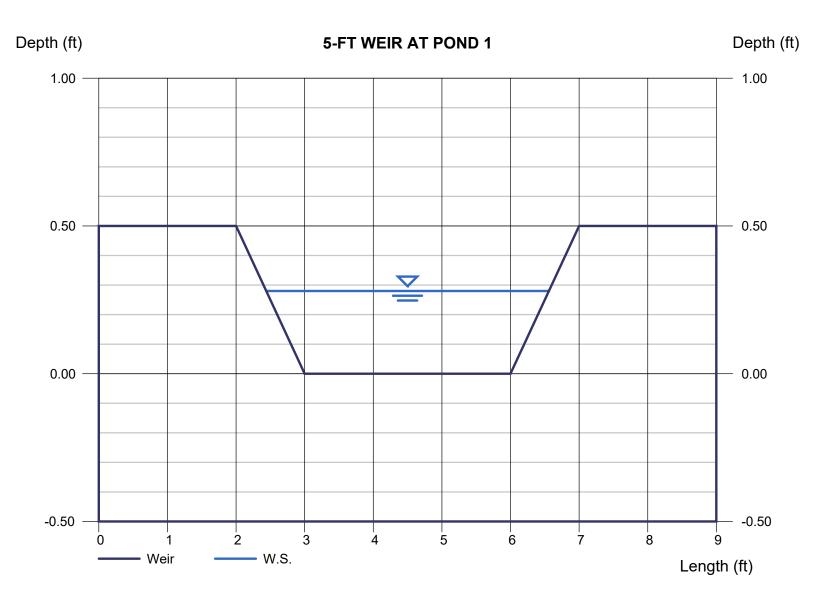
Trapezoidal Weir	
Crest	= Sharp
Bottom Length (ft)	= 3.00
Total Depth (ft)	= 0.50
Side Slope (z:1)	= 2.00

Calculations

Weir Coeff. Cw = 3.10Compute by: Known Q Known Q (cfs) = 1.50



= 0.28Q (cfs) = 1.500Area (sqft) = 1.00Velocity (ft/s) = 1.50Top Width (ft) = 4.12



Weir Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Thursday, Mar 30 2023

17-FT WEIR AT POND 2

T	rap	ezo	idal	W	eir

Crest = Sharp Bottom Length (ft) = 15.00 Total Depth (ft) = 0.50 Side Slope (z:1) = 2.00 Depth (ft) Q (cfs) Area (sqft)

Velocity (ft/s)

Top Width (ft)

Highlighted

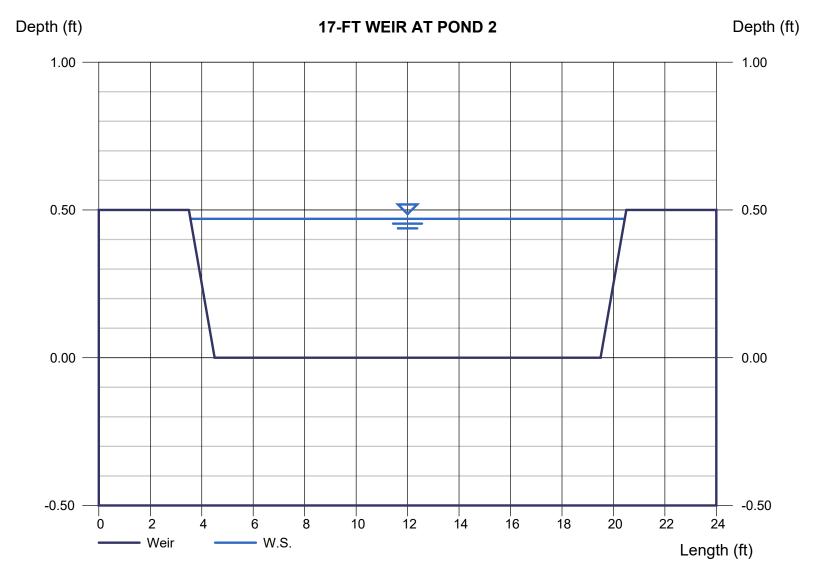
= 0.47 = 15.30 = 7.49

= 2.04

= 16.88

Calculations

Weir Coeff. Cw = 3.10 Compute by: Known Q Known Q (cfs) = 15.30



APPENDIX B

• Grading & Drainage Plan

DRAINAGE REPORT FOR UNIT 2 OF MOUNTAIN HIGHLANDS AT HIGH DESERT (HIGH DESERT - TRACT 15D-1B-1C)

August 23, 2002

PREPARED BY:

BOHANNAN HUSTON, INC. COURTYARD I 7500 JEFFERSON STREET NE ALBUQUERQUE, NM 87109

PREPARED FOR:

HIGH DESERT INVESTMENT CORPORATION 13000 ACADEMY ROAD NE ALBUQUERQUE, NM. 87111

PREPARED BY:

landa Padilla, E.I.

Date

UNDER THE SUPERVISION OF;

Kevin Patton, P.E.

Bohannan 🛆 Huston:

F23/D012

EASEMENT AGREEMENT (Tract 15D-1B-1C/Unit 2 Mountain Highlands) 11/14/03

This Easement Agreement, between High Desert Investment Corporation, a New Mexico corporation ("Grantor"), whose address is 13000 Academy Road, N.E., Albuquerque, New Mexico 87111, the City of Albuquerque, a New Mexico municipal corporation ("City"), whose address is P. O. Box 1293, Albuquerque, New Mexico 87103 and High Desert Residential Owners Association, Inc., a New Mexico non-profit corporation, whose address is 13000 Academy Road, N.E., Albuquerque, New Mexico 87111 ("Owners Association").

Grant of Easement. Grantor grants to City an easement for the conveyance of surface storm water (the "Easement") on, over, across and through the following described property (the "Property"):

> Those portions of Unit 2 Mountain Highlands at High Desert on the Plat of Unit 2 Mountain Highlands at High Desert (a Replat of Tract 15D-1B-1C High Desert) filed October 2, 2003 Book 2003C, Page 298, as document number 2003182214, records of Bernalillo County, New Mexico (the "Plat") which are (i) outside of the building envelopes for the lots indicated on the Plat (the "Building Envelopes"), and (ii) outside the AMAFCA drainage easement in Unit 1 Mountain Highlands at High Desert filed July 1, 1996 as document no. 96073621, in Book 96-18, Pages 3732-3779, records of Bernalillo County, New Mexico.

and grants to Owners Association and the City (to the extent necessary to exercise its rights under this Easement Agreement) the right to maintain and repair the Property and the Easement and the right to remove trees, bushes, undergrowth and any other



2003207493 5999527 Page: 1 of 19 11/17/2003 02:19P R 45.00 Bk-A68 Pg-7056

UNIT 2 OF MOUNTAIN HIGHLANDS @ HIGH DESERT HYDROLOGICAL VOLUMETRIC & DISCHARGE DATA (EXISTING)

Basin		AREA	*	% LAND TREATMENT	EATMEN	<u></u>	1	PEAK DISCHARGE - (CFS/ACRE)	SE - (CFS/ACR	E)*	DEVELOPED
		(ACRES)	∢	В	ပ	۵	∢	۵	O	۵	(CFS)
EX-SPT-6B	South Pino Pond	99.60		10.00	00.0	0.00	2.20	2.92	3.73	5.25	203.57
EX-SPT-7A-R1		7.26	90.00	10.00 0.00	0.00	0.00	2.20	2.92	3.73	5.25	16.49
EX-SPT-7B-R1		2.68	90.00	10.00	0.00	0.00	2.20	2.92	3.73	5.25	60.9
EX-SPT-7B-R2		2.40	90.00	10.00	0.00	0.00	2.20	2.92	3.73	5.25	5.45
EX-BAS-1		4.03	90.00	10.00	0.00	0.00	2.20	2:92	3.73	5.25	9.16
TOTAL		105.97									240.76

UNIT 2 OF MOUNTAIN HIGHLANDS @ HIGH DESERT HYDROLOGICAL VOLUMETRIC & DISCHARGE DATA (DEVELOPED) (HIGH DESERT DRAINAGE MANAGEMENT MASTER PLAN -12/93)

Basin		AREA	%	LAND TE	% LAND TREATMENT	1				DEVELOPED
		(ACRES)	4	В	ပ	۵				(CFS)
SPT-6B	South Pino Pond	89.60	64.93 18.86 8.00	18.86	8.00	8.21				235.00
SPT-7A-R1		7.26	74.85	74.85 0.00	8.00	17.15			-	23.00
SPT-7B-R1		2.68	74.85	0.00 8.00	8.00	17.15				8.40
SPT-7B-R2		2.40	74.85	0.00	74.85 0.00 8.00 17.15	17.15				2.40
BAS-1		4.03					NOT INCLUDED			
TOTAL		105.97						•		268.80

UNIT 2 OF MOUNTAIN HIGHLANDS @ HIGH DESERT HYDROLOGICAL VOLUMETRIC & DISCHARGE DATA (DEVELOPED) (CALCULATED)

Basin		AREA	*	LAND TE	% LAND TREATMENT	 		H	AK DISCHAR	PEAK DISCHARGE - (CFS/ACRE)	ia	DEVELOPED
		(ACRES)	۷	В	ပ	۵		∢	Ф	ပ	۵	(CFS)
SPT-6B-R1	South Pino Pond	0.21	00'0	5.00	0.00	95.00	_	2.20	2.92	3.73	5.25	1.08
SPT-6B-R2	South Pino Pond	13.87	76.71	4.91	0.00	18.38	-	2.20	2.92	3.73	5.25	38.78
SPT-6B-R3	South Pino Pond	4.14	56.28	7.30	0.00	36.42		2.20	2.92	3.73	5.25	13.92
SPT-6B-R4	South Pino Pond	8.74	74.60	5.62	0.00	19.78		2.20	2.92	3.73	5.25	24.85
SPT-6B-R5	South Pino Pond	16.56	89.25	1.60	0.00	9.15	-	2.20	2.92	3.73	5.25	41.24
SPT-6B-R6(offsite)	South Pino Pond	46.08	100.00	0.00	0.00	0.00	Н	2.20	2.92	3.73	5.25	101.38
SPT-7A-R1	South Pino Pond	6.98	58.74	9.21	0.00	32.05	Н	2.20	2.92	3.73	5.25	22.64
SP1-/B-K1	PinoKide/PinoPond	2.48	69.LQ	9.15	0.00	29.16	H	2.20	2.32	3./3	5.25	7.83
SPT-7B-R2		1.24	77.42	6.10	0.00	16.48		2.20	2.92	3.73	5.25	3.41
BAS-1		3.43	79.59	5.51	0.00	14.90		2.20	2.92	3.73	5.25	9.24
TOTAL		103.73										264.37

