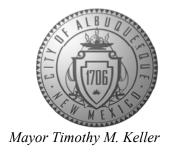
CITY OF ALBUQUERO

Planning Department Brennon Williams, Director



December 1, 2020

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

RE: Human Bean Coffee Shop - Unser and Sage Marketplace

Sage Road SW

Grading and Drainage Plan Engineer's Stamp Date: 11/13/20

Hydrology File: M10D021

Dear Mr. Arfman:

Based upon the information provided in your submittal received 11/13/2020, the Grading and

Drainage Plan is approved for Building Permit. PO Box 1293

> Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy

by Hydrology, Engineer Certification per the DPM checklist will be required.

If the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth

disturbance.

The Payment in Lieu payment of \$5,184.00 must be paid prior to Permanent Release of Occupancy approval. Please use the attached City of Albuquerque Treasury Deposit form. Once the Owner paid the fee, please provide Hydrology with a copy of the receipt.

Also, please provide the Drainage Covenant for the proposed stormwater quality ponds per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. There is a recording fee (\$25, payable to Bernalillo County). Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996). Due to COVID-19, please follow the instructions:

Either email a pdf copy of the executed drainage covenant and the exhibit to clabadie@cabq.gov or either mail or drop off the originals. Please mail the \$25.00 recording fee check made payable to Bernalillo County to:

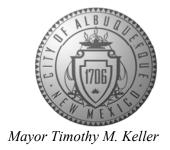
Albuquerque

NM 87103

www.cabq.gov

CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



Planning Dept./DRC Attn: Charlotte LaBadie 600 2nd St. NW, Ste. 400 ABQ, NM, 87102

If you drop off the originals, there is a drop box outside the building labeled DRC. Once approved and recorded, Charlotte will email you a copy.

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

Renée C. Brissette

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title:	Building Permit #:		Hydrology File #:		
DRB#:	EPC#:		Work Order#:		
Legal Description:					
City Address:					
Applicant:			Contact:		
Address:					
			E-mail:		
Owner:			Contact:		
Address:					
			E-mail:		
TYPE OF SUBMITTAL:PLA	Γ (# OF LOTS)	RESIDENCE	_ DRB SITE ADMIN SITE		
IS THIS A RESUBMITTAL?:	Yes	No			
DEPARTMENT: TRAFFIC/ T	RANSPORTATION _	HYDROLOG	Y/ DRAINAGE		
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTON CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENTON ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAY TRAFFIC IMPACT STUDY (TIEST) OTHER (SPECIFY) PRE-DESIGN MEETING?	PERMIT APPLIC OUT (TCL)	BUILI CERT PRELI SITE I SITE I FINAI SIA/ F FOUN GRAD SO-19 PAVII GRAD WORK CLOM FLOO	APPROVAL/ACCEPTANCE SOUGHT: DING PERMIT APPROVAL IFICATE OF OCCUPANCY IMINARY PLAT APPROVAL PLAN FOR SUB'D APPROVAL PLAN FOR BLDG. PERMIT APPROVAL RELEASE OF FINANCIAL GUARANTEE IDATION PERMIT APPROVAL DING PERMIT APPROVAL APPROVAL APPROVAL OF PERMIT APPROVAL		
DATE SUBMITTED:	By:				

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:

Supplemental Information

for

Human Bean Coffee Shop Tract A-3, Sage & Unser Marketplace



by



CALCULATIONS: Tract 3 - Human Bean Coffee : 2-Nov-2020 Based on City of Albuquerque DMP, Article 6-2 Hydrology dated June 26, 2020 100-YEAR, 6-HOUR CALCULATIONS AREA OF SITE: 59647 1.37 **ACRE** SF = 100-year, 6-hour **HISTORIC FLOWS: DEVELOPED FLOWS: EXCESS PRECIP:** Precip. Zone Treatment SF % Treatment SF % 11929 $E_A\ =0.55$ Area A 20% Area A 0 0% 60% 30% $E_{B} = 0.73$ Area B 35788 Area B 17927 20% $E_{\rm C} = 0.95$ Area C 11929 Area C 0 0% 0 0% $E_D = 2.24$ Area D Area D 41720 70% =59647 100% 59647 Total Area Total Area 100% = On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm) Weighted E = $\underline{E}_A A_A + \underline{E}_B A_B + \underline{E}_C A_C + \underline{E}_D A_D$ $A_A + A_B + A_C + A_D$ 1.79 in. Historic 0.74 in. Developed E Ε On-Site Volume of Runoff: V360 =E*A / 12 Historic V₃₆₀ CF Developed V₃₆₀ 8878 CF 3668 On-Site Peak Discharge Rate: $Qp = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D / 43,560$ For Precipitation Zone 1 Q_{pC} Q_{pA} 1.54 2.87 2.16 4.12 3.0 CFS Developed Q_p 4.8 CFS Historic Q_n

An amended Drainage Report (DR) for Unser and Sage Marketplace (previously approved dated October 18, 2020) is included with this submittal. The amended report specifically redistributes the discharge rates to DR Basins 1 and 2 for Tracts A-3 and A-4 while maintaining the total discharge rates as previously approved.

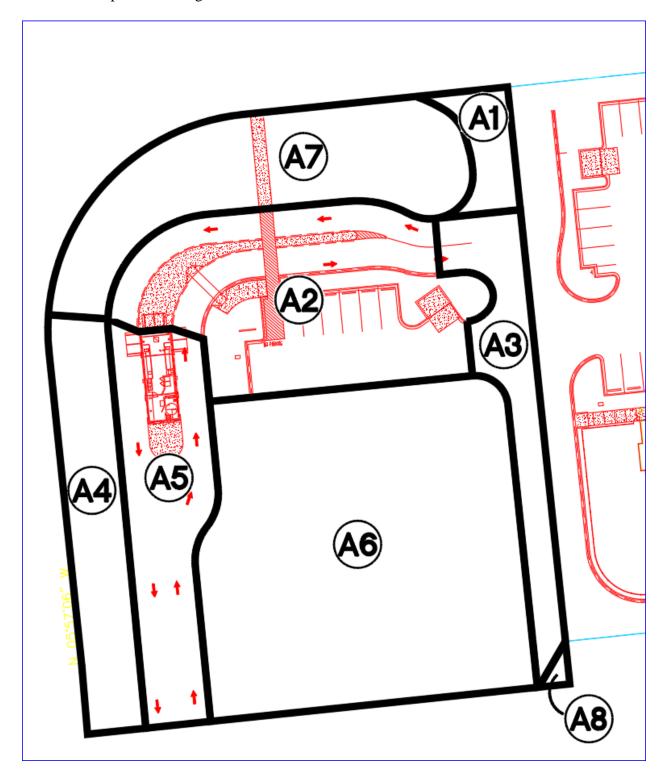
Per the amended report:

Allowable Tract A-3, Maximum discharge = 5.0 cfs

5.0 cfs to DR Basin 1 (Sage Road / Storm Drain)

0.0 cfs to DR Basin 2 (discharging through Tract 1 to the existing Drainage R.O.W.)

Tract A-3 Proposed Drainage Basins:



Tract A3 is limited to 5.0 cfs to the Sage / storm drain system:

Basin A1 to surface discharge to Sage @ 0.1 Basins A2, A3, A4, A5, A6 and A7 to SD @ 1.1+0.4+0.3+0.6+1.9+0.5=4.7 cfs Total 4.8 cfs. Note: Basin A6 is assumed to be 85% impervious in the futre.

Basins A8 will drain south @ 0.01 cfs

BASIN NO. A1		DESCRIPT	ION			Add description	on here
Area of basin flows =	1414	SF		=		0.03 Ac.	
The following calculation	ons are based on T	Treatment %'s as show	right	LAND TR	EATMENT		
	Sub-basin Weighted Excess Precipitation:					A =	0%
	Weighted E	=	2.24	in.		$\mathbf{B} =$	0%
	Sub-basin Volum	e of Runoff:				$\mathbf{C} =$	0%
	V_{360}	=	264	CF		D =	100%
	Sub-basin Peak I	Discharge Rate:				Stormwate	r Quality Volume
	Q_P	=	0.1	cfs			40 CF
BASIN NO. A2		DESCRIPT	ION				
Area of basin flows =	11760	SF		=		0.3 Ac.	
The following calculation	ons are based on	Freatment %'s as show	vn in ta	ble to the	right	LAND TR	EATMENT
	Sub-basin Weigh	nted Excess Precipitat	ion:			A =	0%
	Weighted E	=	2.09	in.		$\mathbf{B} =$	10%
	Sub-basin Volum	e of Runoff:				$\mathbf{C} =$	0%
	V_{360}	=	2047	CF		D =	90%
	Sub-basin Peak I	Discharge Rate:				FIRST FLU	JSH VOL.
	Q_{P}	=	1.1	cfs			300 CF
BASIN NO. A3		DESCRIPT	ION	1			
BASIN NO. A3 Area of basin flows =	4326	DES CRIPT SF	ION	=		0.1 Ac.	
		SF			e right		EATMENT
Area of basin flows =	ons are based on T	SF	wn in ta		e right		EATMENT 0%
Area of basin flows =	ons are based on T	SF Treatment %'s as show	wn in ta	ble to the	e right	LAND TR	
Area of basin flows =	ons are based on Sub-basin Weigh	SF Freatment %'s as show ted Excess Precipitation	wn in ta ion:	ble to the	e right	LAND TR A =	0%
Area of basin flows =	ons are based on T Sub-basin Weigh Weighted E	SF Freatment %'s as show ted Excess Precipitation	wn in ta ion:	ble to the	e right	LAND TR $A = B =$	0% 0%
Area of basin flows =	ons are based on T Sub-basin Weigh Weighted E Sub-basin Volum	SF Treatment %'s as showned Excess Precipitation = e of Runoff: =	wn in ta ion: 2.24	ble to the	eright	LAND TR A = B = C =	0% 0% 0% 100%
Area of basin flows =	ons are based on T Sub-basin Weighted E Sub-basin Volum V ₃₆₀	SF Treatment %'s as showned Excess Precipitation = e of Runoff: =	wn in ta ion: 2.24	ble to the	eright	LAND TR A = B = C = D =	0% 0% 0% 100%
Area of basin flows =	ons are based on T Sub-basin Weighted E Sub-basin Volum V ₃₆₀ Sub-basin Peak I	SF Creatment %'s as shown ted Excess Precipitation = te of Runoff: = Discharge Rate:	wn in ta ion: 2.24 808	in. CF	e right	LAND TR A = B = C = D =	0% 0% 0% 100% JSH VOL.
Area of basin flows = The following calculation	ons are based on T Sub-basin Weighted E Sub-basin Volum V ₃₆₀ Sub-basin Peak I	SF Creatment %'s as shown ted Excess Precipitation = te of Runoff: = Discharge Rate: =	wn in ta ion: 2.24 808	in. CF	eright	LAND TR A = B = C = D =	0% 0% 0% 100% JSH VOL.
Area of basin flows = The following calculation BASIN NO. A4	ons are based on T Sub-basin Weighted E Sub-basin Volum V ₃₆₀ Sub-basin Peak I Q _P	SF Creatment %'s as shown ted Excess Precipitation = te of Runoff: = te of Standard Rate: SF	wn in ta ion: 2.24 808 0.4	in. CF cfs		LAND TR A = B = C = D = FIRST FLU	0% 0% 0% 100% JSH VOL.
Area of basin flows = The following calculation BASIN NO. A4 Area of basin flows =	Sub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak I QP 5250 ons are based on T	SF Creatment %'s as shown ted Excess Precipitation = te of Runoff: = te of Standard Rate: SF	wn in ta ion: 2.24 808 0.4 ION	in. CF cfs		LAND TR A = B = C = D = FIRST FLU	0% 0% 0% 100% JSH VOL. 123 CF
Area of basin flows = The following calculation BASIN NO. A4 Area of basin flows =	ons are based on Table Sub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak I QP 5250 ons are based on Table Sub-basin Weighted E Weighted E	SF Treatment %'s as showned Excess Precipitation e of Runoff: = Discharge Rate: = DESCRIPT SF Treatment %'s as showned Excess Precipitation eted Excess Precipitation =	wn in ta ion: 2.24 808 0.4 ION	in. CF cfs = ble to the		LAND TR A = B = C = D = FIRST FLU 0.1 Ac. LAND TR	0% 0% 0% 100% USH VOL. 123 CF
Area of basin flows = The following calculation BASIN NO. A4 Area of basin flows =	Sub-basin Weighted E Sub-basin Volum V ₃₆₀ Sub-basin Peak I Q _P 5250 ons are based on T Sub-basin Weighted E	SF Treatment %'s as showned Excess Precipitation e of Runoff: = Discharge Rate: = DESCRIPT SF Treatment %'s as showned Excess Precipitation eted Excess Precipitation =	wn in ta ion: 2.24 808 0.4 ION wn in ta ion:	in. CF cfs = ble to the		LAND TR A = B = C = D = FIRST FLU 0.1 Ac. LAND TR A =	0% 0% 0% 100% JSH VOL. 123 CF EATMENT 0%
Area of basin flows = The following calculation BASIN NO. A4 Area of basin flows =	ons are based on Table Sub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak I QP 5250 ons are based on Table Sub-basin Weighted E Weighted E	SF Treatment %'s as showned Excess Precipitation e of Runoff: = Discharge Rate: = DESCRIPT SF Treatment %'s as showned Excess Precipitation eted Excess Precipitation =	wn in ta ion: 2.24 808 0.4 ION wn in ta ion:	in. CF cfs = ble to the		LAND TR A = B = C = D = FIRST FLU 0.1 Ac. LAND TR A = B =	0% 0% 0% 100% USH VOL. 123 CF EATMENT 0% 70%
Area of basin flows = The following calculation BASIN NO. A4 Area of basin flows =	Sub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak I QP 5250 Ons are based on T Sub-basin Weighted E Sub-basin Weighted E Sub-basin Volum	SF Creatment %'s as showned Excess Precipitation = the of Runoff: = Discharge Rate: = DESCRIPT SF Creatment %'s as showned Excess Precipitation = the of Runoff: = the of Runoff:	wn in ta ion: 2.24 808 0.4 ION wn in ta ion: 0.80	cfs cfs ble to the		LAND TR A = B = C = D = FIRST FLU 0.1 Ac. LAND TR A = B = C =	0% 0% 100% JSH VOL. 123 CF EATMENT 0% 70% 30% 0%

BASIN NO. A5		DESCRI	IPTION	-	
Area of basin flows =	6719	SF		=	0.2 Ac.
The following calculation	ons are based on	Γreatment %'s as s	LAND TREATMENT		
	Sub-basin Weighted Excess Precipitation:				A = 0%
	Weighted E	=	2.24 i	n.	B = 0%
	Sub-basin Volun	e of Runoff:			C = 0%
	V ₃₆₀	=	1254	CF	D = 100%
	Sub-basin Peak I	Discharge Rate:			FIRST FLUSH VOL.
	Q_P	=	0.6	cfs	190 CF
BASIN NO. A6		DESCRI	IPTION		
Area of basin flows =	21291	SF		=	0.5 Ac.
The following calculation	ons are based on	Γreatment %'s as s	hown in tal	ble to the right	LAND TREATMENT
	Sub-basin Weigl	nted Excess Precip	itation:		A = 0%
	Weighted E	=	2.01 i	n.	B = 15%
	Sub-basin Volun	ne of Runoff:			C = 0%
	V ₃₆₀	=	3572	CF	D = 85%
	Sub-basin Peak I	Discharge Rate:			FIRST FLUSH VOL.
	Q_P	=	1.9	cfs	513 CF
BASIN NO. A7		DESCR	IPTION	•	
BASIN NO. A7 Area of basin flows =	8745	DES CRI	IPTION	=	0.2 Ac.
		SF			0.2 Ac. LAND TREATMENT
Area of basin flows =	ons are based on	SF	hown in tal		-
Area of basin flows =	ons are based on	SF Γreatment %'s as s	hown in tal	ble to the right	LAND TREATMENT
Area of basin flows =	ons are based on Sub-basin Weigl	SF Greatment %'s as sonted Excess Precip =	hown in tal	ble to the right	$\begin{array}{c} \textbf{LAND TREATMENT} \\ \textbf{A} = 0\% \end{array}$
Area of basin flows =	ons are based on Sub-basin Weighted E	SF Greatment %'s as sonted Excess Precip =	hown in tal	ble to the right	LAND TREATMENT $A = 0\%$ $B = 95\%$
Area of basin flows =	ons are based on Sub-basin Weighted E Sub-basin Volun	SF Treatment %'s as s nted Excess Precip = ne of Runoff: =	hown in tal itation: 0.81 i	n.	LAND TREATMENT A = 0% B = 95% C = 0%
Area of basin flows =	ons are based on Sub-basin Weighted E Sub-basin Volun V ₃₆₀	SF Treatment %'s as s nted Excess Precip = ne of Runoff: =	hown in tal itation: 0.81 i	n.	LAND TREATMENT A = 0% B = 95% C = 0% D = 5%
Area of basin flows =	Sub-basin Weighted E Sub-basin Volun V ₃₆₀ Sub-basin Peak I	SF Treatment %'s as s nted Excess Precip = ne of Runoff: = Discharge Rate:	0.81 i 587	n. CF	LAND TREATMENT A = 0% B = 95% C = 0% D = 5% FIRST FLUSH VOL.
Area of basin flows = The following calculation	Sub-basin Weighted E Sub-basin Volun V ₃₆₀ Sub-basin Peak I	SF Treatment %'s as s nted Excess Precip = ne of Runoff: = Discharge Rate: =	0.81 i 587	n. CF	LAND TREATMENT A = 0% B = 95% C = 0% D = 5% FIRST FLUSH VOL.
Area of basin flows = The following calculation BASIN NO. A8	Sub-basin Weighted E Sub-basin Volun V360 Sub-basin Peak I QP	SF Treatment %'s as s nted Excess Precip = ne of Runoff: = Discharge Rate: = DES CRI	hown in tallitation: 0.81 i 587 0.5	n. CF cfs	LAND TREATMENT A = 0% B = 95% C = 0% D = 5% FIRST FLUSH VOL. 12 CF
Area of basin flows = The following calculation BASIN NO. A8 Area of basin flows =	Sub-basin Weighted E Sub-basin Volun V360 Sub-basin Peak I QP	SF Treatment %'s as s nted Excess Precip = ne of Runoff: = Discharge Rate: = DES CRI	.hown in tallitation: 0.81 i 587 0.5 IPTION	n. CF cfs	LAND TREATMENT A = 0% B = 95% C = 0% D = 5% FIRST FLUSH VOL. 12 CF 0.0 Ac.
Area of basin flows = The following calculation BASIN NO. A8 Area of basin flows =	Sub-basin Weighted E Sub-basin Volun V360 Sub-basin Peak I QP 142 Dons are based on Sub-basin Weighted E Weighted E	SF Treatment %'s as s nted Excess Precip = ne of Runoff: = Discharge Rate: = DESCRI SF Treatment %'s as s nted Excess Precip =	.hown in tallitation: 0.81 i 587 0.5 IPTION	cfs cle to the right	LAND TREATMENT A = 0% B = 95% C = 0% D = 5% FIRST FLUSH VOL. 12 CF 0.0 Ac. LAND TREATMENT
Area of basin flows = The following calculation BASIN NO. A8 Area of basin flows =	Sub-basin Weighted E Sub-basin Volun V360 Sub-basin Peak I QP 142 Ons are based on Sub-basin Weighted E Sub-basin Volun V360 Sub-basin Peak I QP	SF Treatment %'s as s nted Excess Precip = ne of Runoff: = Discharge Rate: = DESCRI SF Treatment %'s as s nted Excess Precip =	.hown in tallitation: 0.81 i 587 0.5 IPTION .hown in tallitation:	cfs cle to the right	LAND TREATMENT A = 0% B = 95% C = 0% D = 5% FIRST FLUSH VOL. 12 CF 0.0 Ac. LAND TREATMENT A = 0%
Area of basin flows = The following calculation BASIN NO. A8 Area of basin flows =	Sub-basin Weighted E Sub-basin Volun V360 Sub-basin Peak I QP 142 Dons are based on Sub-basin Weighted E Weighted E	SF Treatment %'s as s nted Excess Precip = ne of Runoff: = Discharge Rate: = DESCRI SF Treatment %'s as s nted Excess Precip =	.hown in tallitation: 0.81 i 587 0.5 IPTION .hown in tallitation:	cfs cle to the right	LAND TREATMENT A = 0% B = 95% C = 0% D = 5% FIRST FLUSH VOL. 12 CF 0.0 Ac. LAND TREATMENT A = 0% B = 0%
Area of basin flows = The following calculation BASIN NO. A8 Area of basin flows =	Sub-basin Weighted E Sub-basin Volun V360 Sub-basin Peak I QP 142 Ons are based on Sub-basin Weighted E Sub-basin Weighted E Sub-basin Weighted E Sub-basin Volun	SF Treatment %'s as s nted Excess Precip = ne of Runoff: = Discharge Rate: = DES CRI SF Treatment %'s as s nted Excess Precip = ne of Runoff: =	.hown in tallitation: 0.81 i 587 0.5 IPTION .hown in tallitation: 2.24 i	cfs = ble to the right cfs = ble to the right n.	LAND TREATMENT A = 0%

DRAINAGE ANALYSIS

The referenced PROPERTY (Tract A-3 of Unser and Sage Marketplace) is an undeveloped commercial property located within City of Albuquerque (C.O.A.) Vicinity Map M-10-Z. The 1.3693 acre site is bound to the east and south by undeveloped commercial property, to the west by Unser Road SW, and to the north by Sage Road

Proposed improvements include a commercial drive-thru building with associated site walks, parking and landscaping.

The approved Drainage Master Plan (DMP) for Unser and Sage Marketplace, prepared by Isaacson & Arfman (dated 10/18/2010) identified the overall basins, drainage patterns and allowable discharge rates from each of the five tracts.

An amended Drainage Master Plan (DMP) is submitted with this Grading and Drainage Plan to redistribute the allowable discharge from Tract A-3 and Tract A-4 (same owner):

Original DMP approved discharge rates:

Tract A-3 1.37 acre @ Maximum Discharge = 5.5 cfs

5.5 cfs to Basin 1 (Sage Road / Storm Drain system)

0.0 cfs to Basin 2 (South to the existing Drainage R.O.W)

Tract A-4 1.10 acre @ Maximum Discharge = 4.4 cfs

2.7 cfs to Basin 1 (Sage Road / Storm Drain system) 1.7 cfs to Basin 2 (South to the existing Drainage R.O.W)

Amended DMP discharge rates:

Tract A-3 1.37 acre @ Maximum Discharge = 5.3 cfs

5.0 cfs to Basin 1 (Sage Road / Storm Drain system)

0.3 cfs to Basin 2 (South to the existing Drainage R.O.W)

Tract A-4 1.10 acre @ Maximum Discharge = 4.7 cfs

3.2 cfs to Basin 1 (Sage Road / Storm Drain system) 1.4 cfs to Basin 2 (South to the existing Drainage R.O.W)

Total Tract 3 + Tract 4 discharge to Basin 1

= 5.0 cfs (Tract 3) + 3.2 cfs (Tract 4) = 8.2 cfs (no change to DMP total)

Total Tract 3 + Tract 4 discharge to Basin 2

= 0.3 cfs (Tract 3) + 1.4 cfs (Tract 4) = 1.7 cfs (no change to DMP total)

ADA COMPLIANCE

SIDEWALK(S) AND RAMP(S): TARGET CROSS SLOPE = 1% TO 1.5%. CROSS SLOPE SHALL NOT EXCEED 2%

ACCESSIBLE RAMP(S): TARGET LONGITUDINAL SLOPE = 7% LONGITUDINAL SLOPE SHALL NOT EXCEED 12:1 (8.3%).

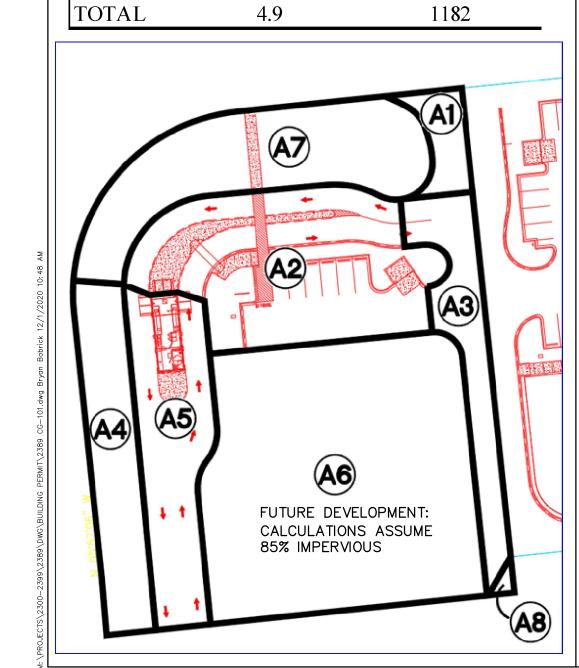
ACCESSIBLE PARKING: TARGET SLOPE = 1% TO 1.5%. SLOPE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION

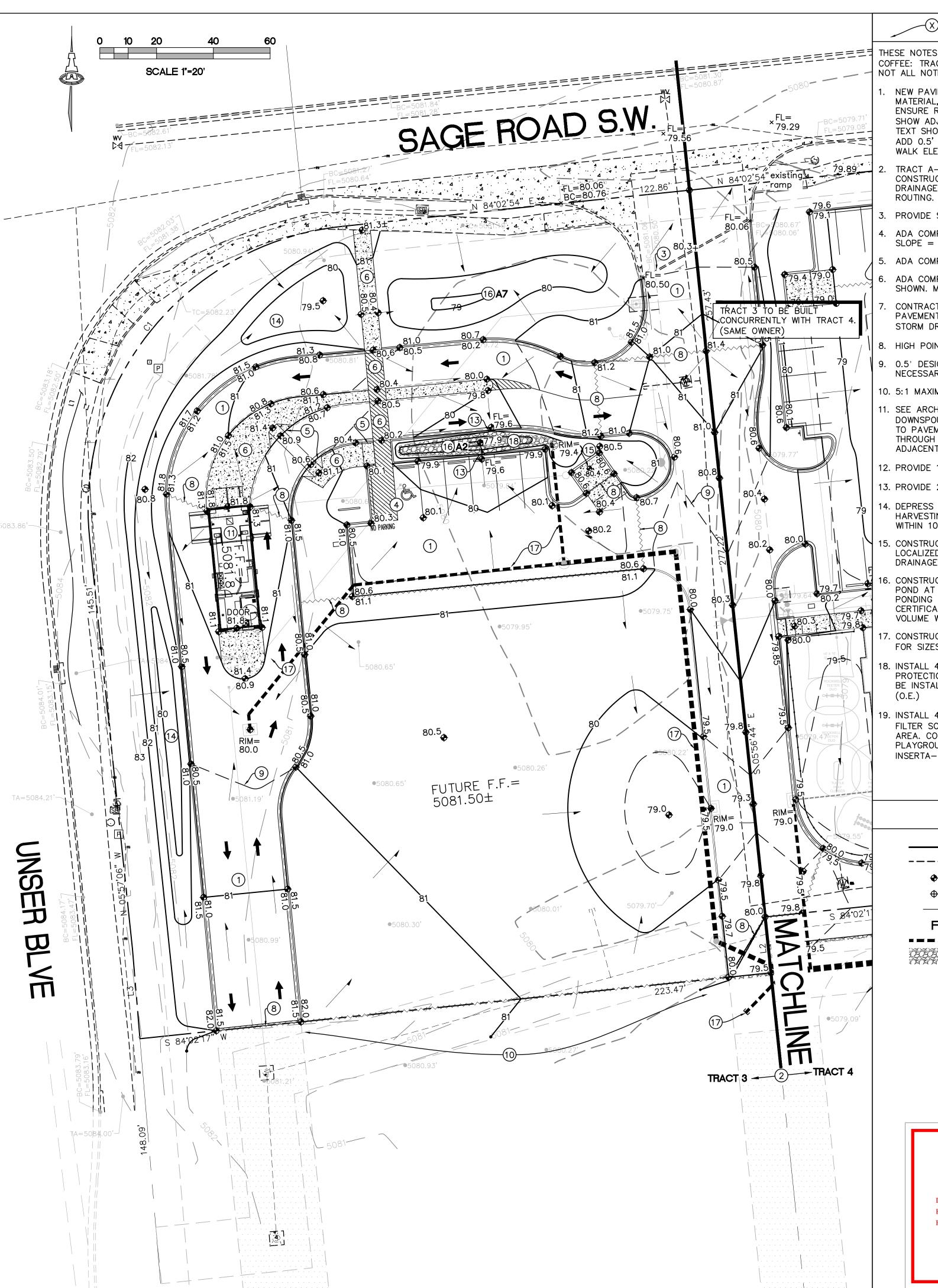
DRAINAGE BASINS

SEE SUPPLEMENTAL INFORMATION PACKET FOR ADDITIONAL INFORMATION.

BASIN SUMMARY

Basin No.	Discharge (Q)	SWQ Volume
A 1	0.1	40
A2	1.1	300
A3	0.4	123
A 4	0.3	
A 5	0.6	190
A6	1.9	513
A7	0.5	12
A8	0.0	4





KEYED NOTES

THESE NOTES ARE USED ON SHEETS CG-101 (HUMAN BEAN COFFEE: TRACT A-3) AND CG-102 (KIDZ ACADEMY: TRACT A-4). NOT ALL NOTES ARE USED ON EACH SHEET.

- NEW PAVING AT ELEVATIONS SHOWN. SEE PAVING PLAN FOR MATERIAL, EXTENTS, JOINTS AND PAVING SECTIONS. NOTE: TO ENSURE READABILITY, NOT ALL PAVEMENT SPOT ELEVATIONS SHOW ADJACENT TOP OF CURB / TOP OF WALK ELEVATIONS. TEXT SHOWN WITHIN FLOWLINE INDICATES FLOWLINE ELEVATION. ADD 0.5' TYPICAL FOR TOP OF CURB / TOP OF ADJACENT WALK ELEVATIONS.
- TRACT A-3 AND TRACT A-4 SITE IMPROVEMENTS WILL BE CONSTRUCTED CONCURRENTLY. SEPARATE GRADING AND DRAINAGE PLANS ARE PROVIDED FOR COA HYDROLOGY ROUTING. SEE SHEETS CG-101 AND CG-102.
- PROVIDE SMOOTH TRANSITION TO EXISTING PAVEMENT.
- ADA COMPLIANT PARKING SPACE AND ACCESS AISLE. MAXIMUM SLOPE = 2% IN ANY DIRECTION.
- ADA COMPLIANT SLOPE ACCESS RAMP.
- ADA COMPLIANT PEDESTRIAN ACCESS WALK AT ELEVATIONS SHOWN. MAX. 5% SLOPE, MAX. 2% CROSS-SLOPE.
- CONTRACTOR TO FIELD VERIFY AND CORRECT EXISTING PAVEMENT TO ENSURE POSITIVE DRAINAGE TO PROPOSED STORM DRAIN INLET (TRACT 4 ONLY).
- HIGH POINT / GRADE BREAK LOCATION.
- 9. 0.5' DESIGN CONTOURS ARE SHOWN DASHED WHERE NECESSARY TO CLARIFY GRADING CONCEPT.
- 10. 5:1 MAXIMUM GRADE TRANSITION TO EXISTING GRADES.
- 11. SEE ARCHITECTURAL AND PLUMBING PLANS FOR SPECIFIC DOWNSPOUT LOCATIONS. OWNER'S OPTION: SURFACE DISCHARGE TO PAVEMENT VIA CONCRETE RUNDOWN. PIPE DISCHARGE THROUGH FACE OF CURB OR PIPE DOWNSPOUT DIRECTLY INTO ADJACENT STORM DRAIN LINE.
- 12. PROVIDE 12" WIDE OPENING IN CURB TO PASS FLOW.
- 13. PROVIDE 24" WIDE OPENING IN CURB TO PASS FLOW.
- 14. DEPRESS LANDSCAPING 18" MAX. DEPTH FOR WATER HARVESTING THIS AREA. NO WATER HARVESTING SHALL OCCUR WITHIN 10'OF ANY BUILDING.
- 15. CONSTRUCT SLOPED CONCRETE DUMPSTER PAD TO DIRECT LOCALIZED STORMWATER TO PROPOSED SANITARY SEWER DRAINAGE INLET. SEE UTILITY PLAN.
- CONSTRUCT 18" MAX. DEPTH STORMWATER QUALITY RETENTION POND AT ELEVATIONS SHOWN. ALL STORMWATER QUALITY PONDING VOLUMES WILL BE VERIFIED AS PART OF AS-BUILT CERTIFICATION. PONDS WHICH DO NOT PROVIDE THE REQUIRED VOLUME WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- CONSTRUCT PRIVATE STORM DRAIN SYSTEM. SEE SHEET CG-50' FOR SIZES / SLOPES / INLET INFORMATION / MATERIALS.
- 18. INSTALL 4" AVG. DIA. X 8" DEEP ANGULAR ROCK EROSION PROTECTION TO LIMITS HATCHED. ALL EROSION PROTECTION TO BE INSTALLED OVER GEOTEX 501 NON-WOVEN GEOTEXTILE
- 19. INSTALL 4"ø WRAPPED ADS PERFORATED DRAIN PIPE WITH FILTER SOCK IN 18"X18"XLENGTH GRAVEL BED WITHIN PLAY AREA. COORDINATE ALIGNMENT WITH OWNER TO MISS PLAYGROUND EQUIPMENT. CONNECT TO MAIN USING INSERTA-TEE. (TRACT A-4 ONLY).

LEGEND

PROPOSED CONTOUR - 1' INCREMENT PROPOSED CONTOUR - 0.5' INCREMENT **⊕**78.3 PROPOSED SPOT ELEVATION

PUBLIC WORK ORDER SPOT ELEVATION

FINISH FLOOR ELEVATION PROPOSED STORM DRAIN

FLOW ARROW

ROCK EROSION PROTECTION

City of Albuquerque Planning Department Development Review Services **HYDROLOGY SECTION APPROVED** 12/01/20 Jones C. Bressette M10D021 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 ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSIONS IN PLANS, PECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION

SITE

VICINITY MAP

owned by and remain the property of thereof shall be utilized by any person,

2389 CG-101.dwg 1 December 2020



 \Box

FLOOD ZONE: THE SUBJECT PROPERTY APPEARS TO LIE WITHIN "ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN) AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE MAP: 35001C0336H, MAP REVISION DATE: AUGUST 16, 2012.

PROJECT DATA

LEGAL DESCRIPTION: TRACT "A-3" OF UNSER AND SAGE

MARKETPLACE, ALBUQUERQUE, NEW MEXICO

SITE AREA:

ISAACSON & ARFMAN, P.A. **ENGINEER:** 128 MONROE ST NE, ABQ. NM 87108 PHONE: (505) 268-8828

> CSI-CARTESIAN SURVEYS INC. P.O. BOX 44414, RIO RANCHO, N.M. 87174

OFFSITE FLOW: NO OFFSITE FLOW AFFECTS THIS PROPERTY OTHER THAN WHAT IS TO BE PASSED WITHIN THE SHARED STORM DRAIN SYSTEM / EASEMENT

BENCHMARK: VERTICAL DATUM IS BASED UPON THE ALBUQUERQUE CONTROL STATION MONUMENT "1-M10", ELEVATION = 5082.757 FEET (NAVD 1988)

PHONE (505) 896 - 3050

STORMWATER QUALITY REQ'S

ALL NEW DEVELOPMENT AND REDEVELOPMENT PROJECTS SHALL APPLY BEST MANAGEMENT PRACTICES (BMPS) TO MANAGE THE STORMWATER QUALITY VOLUME (SWQV) BY MANAGEMENT ON-SITE, OR PAYMENT-IN-LIEU, OR PRIVATE OFF-SITE MITIGATION.

FOR NEW DEVELOPMENT SITES, THE CABQ STORMWATER QUALITY VOLUME (SWQV) IS BASED ON THE 90TH PERCENTILE STORM EVENT OR 0.42".

THE IMPERVIOUS AREA FOR THE PORTION OF THE PROPERTY TO BE DEVELOPED (BASINS A1, A2, A3, A4, A5, A7 AND A8) IS 23,622 SF (FUTURE BASIN A6 DEVELOPMENT IS NOT INCLUDED): THE TOTAL REQUIRED S.Q. RETENTION VOLUME = 0.42/12 * 23,622 SF = 827 CF.

TWO SWQ RETENTION PONDS WILL BE CONSTRUCTED AS SHOWN (DRAINAGE BASIN PONDS A1 AND A2).

Volume

88 CF

167 CF

5079.0	60	530 CF				
POND VO	OLUME =	530 CF				
POND A2						
Contour	Area	Volume				
5079.4	240					
5079	160	80 CF				

POND A7

1000

15

POND VOLUME =

Contour | Area

5080

5078

PER BASIN CALCS: BASIN A2 REQUIRES 300 CF OF SWQV.

PER BASIN CALCS:

CF OF SWQV.

BASIN A7 REQUIRES 12

TOTAL SWQV PROVIDED = 167+12 = 179 CF.

A "PAYMENT IN-LIEU FOR S.Q. VOLUME REQUIREMENT" TREASURY DEPOSIT SLIP WILL BE PROVIDED BY C.O.A. HYDROLOGY BASED ON THE PORTION OF S.Q. VOLUME THAT IS NOT RETAINED ON-SITE (827 - 179 = 648 CF) @ \$8.00 / CF FOR COMMERCIAL.

A DRAINAGE COVENANT WILL BE REQUIRED FOR THE SWQV PONDS PRIOR TO RELEASE OF CERTIFICATE OF OCCUPANCY. THE ORIGINAL NOTARIZED FORM AND EXHIBIT 'A' ALONG WITH THE RECORDING FEE (PAYABLE TO CITY OF ALBUQUERQUE) WILL BE SUBMITTED BY THE OWNER.

rm or corporation for any purpose whatsoever except with the written permission of Isaacson & Arfman, Inc.

9 S OF AN

SHEET TITLE

GRADING AND DRAINAGE PLAN

SHEET NUMBER

CG-102

