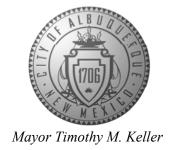
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



March 7, 2023

Ron Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM, 87109

Sawmill Tract H, 1921 Bellamah Ave. NW RE:

Grading & Drainage Plan

Engineer's Stamp Date: 1/4/2023 Hydrology File: J13D017B

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 2/3/2023, the Grading & Drainage Plan is not approved for action by the DHO on Site Plan for Building Permit Approval. The following comments need to be addressed for approval of the above referenced project.

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

- 1. Please provide pond 2 location, volume and cross-section on sheet #GR-1.
- 2. Show the bioswale for proposed basin 1.
- 3. On sheet #GR-1, Proposed Drainage: It states that "The pond in basin 2 will retain the developed runoff of 0.036 ac-ft which is less than the required water quality volume of 0.40 ac-ft". – This statement is confusing. First of all, the retention pond volume should not be less than the SWQV. Secondly, would pond 1 volume be counted for part of the SWQV? Please clarify. Also, the required SWQV is 0.04 acft, not 0.40 ac-ft. This might be a typo.
- 4. On the same sheet: The next sentence states that "The pond will drain 7.15 cfs. Therefore the total discharge from the site will be 8.09 cfs". – Please provide calculations showing that where these number come from.

THE POND IN BASIN 2 WILL RETAIN THE DEVELOPED RUNOFF-OF 0.036 AC-FT WHICH IS LESS THAN THE REQUIRED WATER QUALITY VOLUME OF (0.40) AC-FT. THE POND WILL DRAIN AT RATE OF (7.15)CFS. THEREFORE THE TOTAL DISCHARGE FROM THE SITE WILL BE (8.09) CFS WHICH IS BELOW THE EXISTING DISCHARGE OF 8.13 CFS.

If you have any questions, please contact me at 505-924-3695 or tchen@cabq.gov.

Sincerely,

Tiequan Chen, P.E.

Principal Engineer, Hydrology

Planning Department, Development Review Services

Tieque Che

Find Hydrology forms and information at: caba.gov/planning/development-review-services/hydrology-section

Page 1 of 1



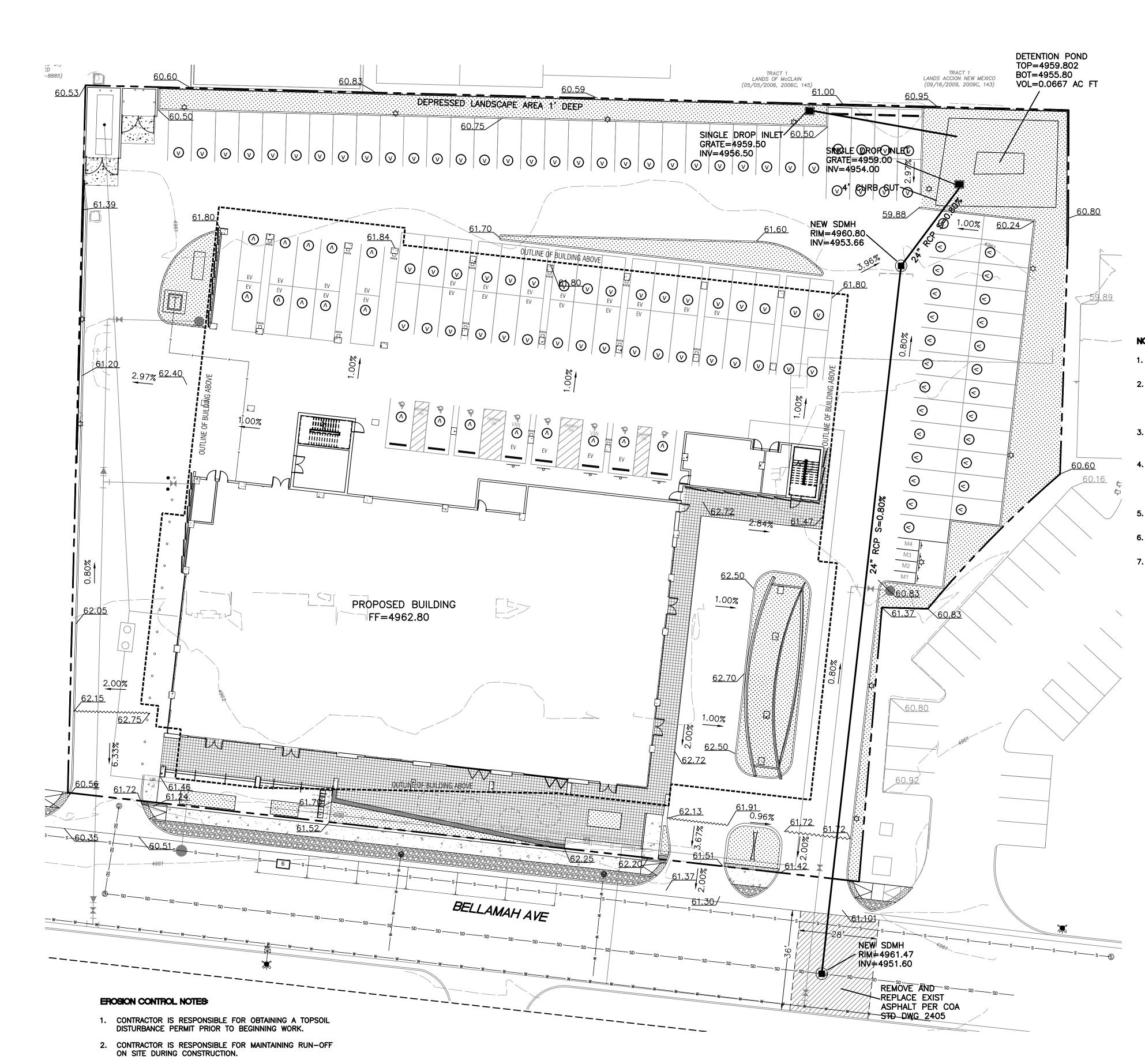
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title: TRACT H SAWMILL	Building Permit #	Hydrology File #					
DRB#	EPC#						
DRB# Legal Description: TRA A-2 PLAT OF TRACTS A-1 A-2 AND A WILLIAMANDREW MCCORD CONT 20290	-3 LANDS OF City Address	s OR Parcel UPC: 10130581795232230					
Applicant/Agent: Tierra West LLC	Contact: <u>Jo</u>	n Niski					
Address: 5571 Midway Park Place NE Albuquerque, N	IM 87109 Phone: (5	505) 858-3100					
Email: JNISKI@TIERRAWESTLLC.COM							
Applicant/Owner:	Contact:						
Address:							
Email:							
TYPE OF DEVELOPMENT:PLAT (#of lo							
DEPARTMENT: TRANSPORTATIOn Check all that apply:	N <u>✓</u> HYDROLOGY	/DRAINAGE					
TYPE OF SUBMITTAL:	TYPE OF APPROVA	AL/ACCEPTANCE SOUGHT:					
ENGINEER/ARCHITECT CERTIFICATION	∠ BUILDING	PERMIT APPROVAL					
PAD CERTIFICATION	CERTIFICA	ATE OF OCCUPANCY					
CONCEPTUAL G&D PLAN	CONCEPT	UAL TCL DRB APPROVAL					
✓ GRADING PLAN	PRELIMIN	ARY PLAT APPROVAL					
DRAINAGE REPORT	SITE PLAN	FOR SUB'D APPROVAL					
DRAINAGE MASTER PLAN	SITE PLAN	FOR BLDG PERMIT APPROVAL					
FLOOD PLAN DEVELOPMENT PERMIT A	PPFINAL PLA	AT APPROVAL					
ELEVATION CERTIFICATE	SIA/RELEA	ASE OF FINANCIAL GUARANTEE					
CLOMR/LOMR	FOUNDAT	ION PERMIT APPROVAL					
TRAFFIC CIRCULATION LAYOUT (TCL)	GRADING	PERMIT APPROVAL					
ADMINISTRATIVE	SO-19 APP	ROVAL					
TRAFFIC CIRCULATION LAYOUT FOR DI	RBPAVING P	ERMIT APPROVAL					
APPROVAL	GRADING	PAD CERTIFICATION					
TRAFFIC IMPACT STUDY (TIS)	WORK OR	DER APPROVAL					
STREET LIGHT LAYOUT	CLOMR/LC	OMR					
OTHER (SPECIFY)	FLOOD PL	AN DEVELOPMENT PERMIT					
PRE-DESIGN MEETING?	OTHER (SI	OTHER (SPECIFY)					
DATE SUBMITTED: 01.04.2023							



3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT

FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM

ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC

WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE

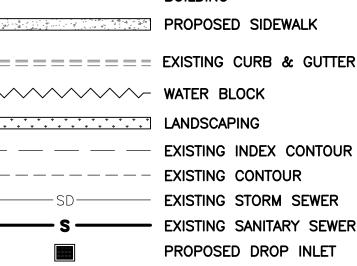
BE STABILIZED IN ACCORDANCE WITH COA SPECS OR 3" GRAVEL

6. ALL SLOPES NOT STABILIZED AT THE END OF THE PROJECT SHALL

THAT GETS INTO EXISTING RIGHT-OF-WAY.

OF ANY PROJECT.

LEGEND CURB & GUTTER BOUNDARY LINE ----RIGHT-OF-WAY BUILDING PROPOSED SIDEWALK ======== EXISTING CURB & GUTTER LANDSCAPING



PROPOSED SDMH

VICINITY MAP

FLOOD MAP

AREA WITH REDUCED FLOOD RISK DUE TO LEVEE

NOTICE TO CONTRACTORS

- 1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR

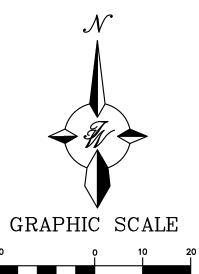
EXISTING DRAINAGE:

THIS SITE IS CURRENTLY A WAREHOUSE WITH PAVED PARKING IN FRONT AND GRAVEL PARKING IN THE BACK. THE SITE IS BOUNDED BY COMMERCIAL BUILDINGS TO THE WEST, NORTH AND EAST AND BELLAMAH AVENUE TO THE SOUTH CONTAINING APPROXIMATELY 2.03 ACRES. THE SITE IS DIVIDED INTO 5 BASINS WITH BASIN A DISCHARGING 0.98 CFS TO BELLAMAH AVENUE. BASIN B DRAINS TO A STORM SEWER INLET THAT DRAINS TO THE EXISTING STORM SEWER IN BELLAMAH AVENUE. BASINS C, D AND E DRAIN TO THE GRAVEL PARKING AREA WHERE INFILTRATES THE GROUND AND EVAPORATES. THERE ARE NO OFFSITE FLOWS THAT ENTER THE SITE. THE SITE IS LOCATED ON FIRM MAP 35001C0331H AS SHOWN ABOVE. THE MAP SHOWS THAT THE SITE DOES NOT LIE WITHIN ANY 100 YEAR FLOOD PLAIN. THE SITE GENERATES A TOTAL OF 8.13 CFS WITH A 100YR, 6-HR VOLUME OF 0.337

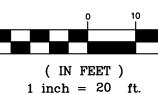
PROPOSED DRAINAGE:

THE SITE IS NOW DIVIDED INTO TWO BASINS. BASIN 1 WILL DRAIN TO THE NORTH INTO A BIOSWALE AND A DETENTION POND OVER THE SURFACE. THE BIOSWALE WILL DRAIN TO THE POND SO THE WATER QUALITY VOLUME IS CAPTURED AND RETAINED. THE POND WILL DRAIN VIA A DROP INLET TO A STORM SEWER THAT WILL CONNECT TO THE STORM SEWER IN BELLAMAH. BASIN 2 IS THE FRONT PART OF THE BUILDING AND HARDSCAPE ALONG THE STREET. THIS BASIN WILL DISCHARGE 0.94 CFS TO BELLEMAH WHICH IS 0.04 CFS LESS THAN WAS WAS PREVIOUSLY DRAINED TO THE STREET. FROM THERE THE RUNOFF IS CAPTURED IN EXISTING DROP INLETS ALONG BELLAMAH AVE.

THE POND IN BASIN 2 WILL RETAIN THE DEVELOPED RUNOFF OF 0.036 AC-FT WHICH IS LESS THAN THE REQUIRED WATER QUALITY VOLUME OF 0.40 AC-FT. THE POND WILL DRAIN AT RATE OF 7.15 CFS. THEREFORE THE TOTAL DISCHARGE FROM THE SITE WILL BE 8.09 CFS WHICH IS BELOW THE EXISTING DISCHARGE OF 8.13 CFS.



35001C0331H

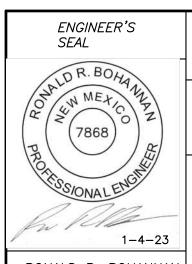


DRAWN BY

SHEET #

CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.



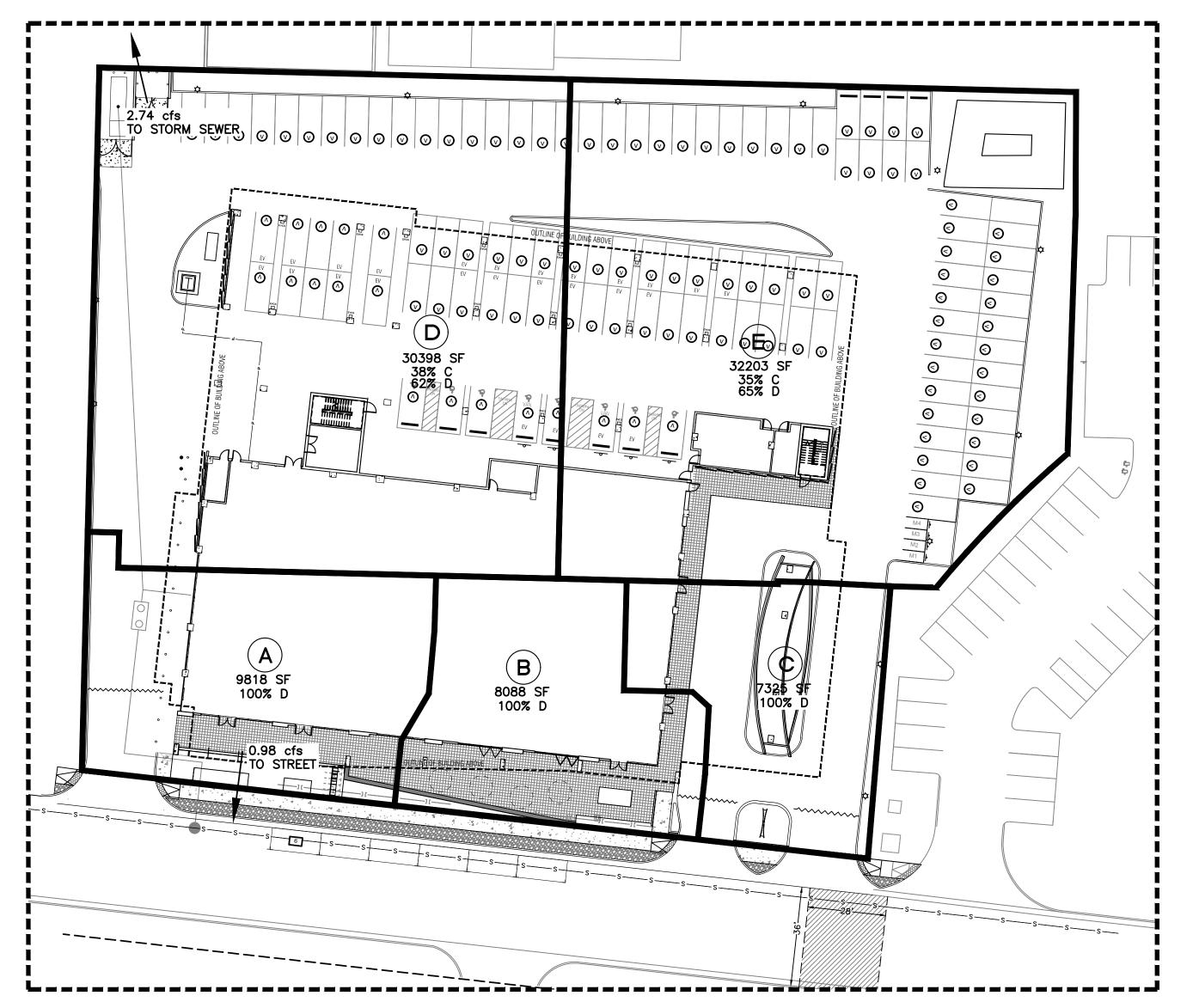
1921 BELLAMAH AVE NW ALBUQUERQUE, NM

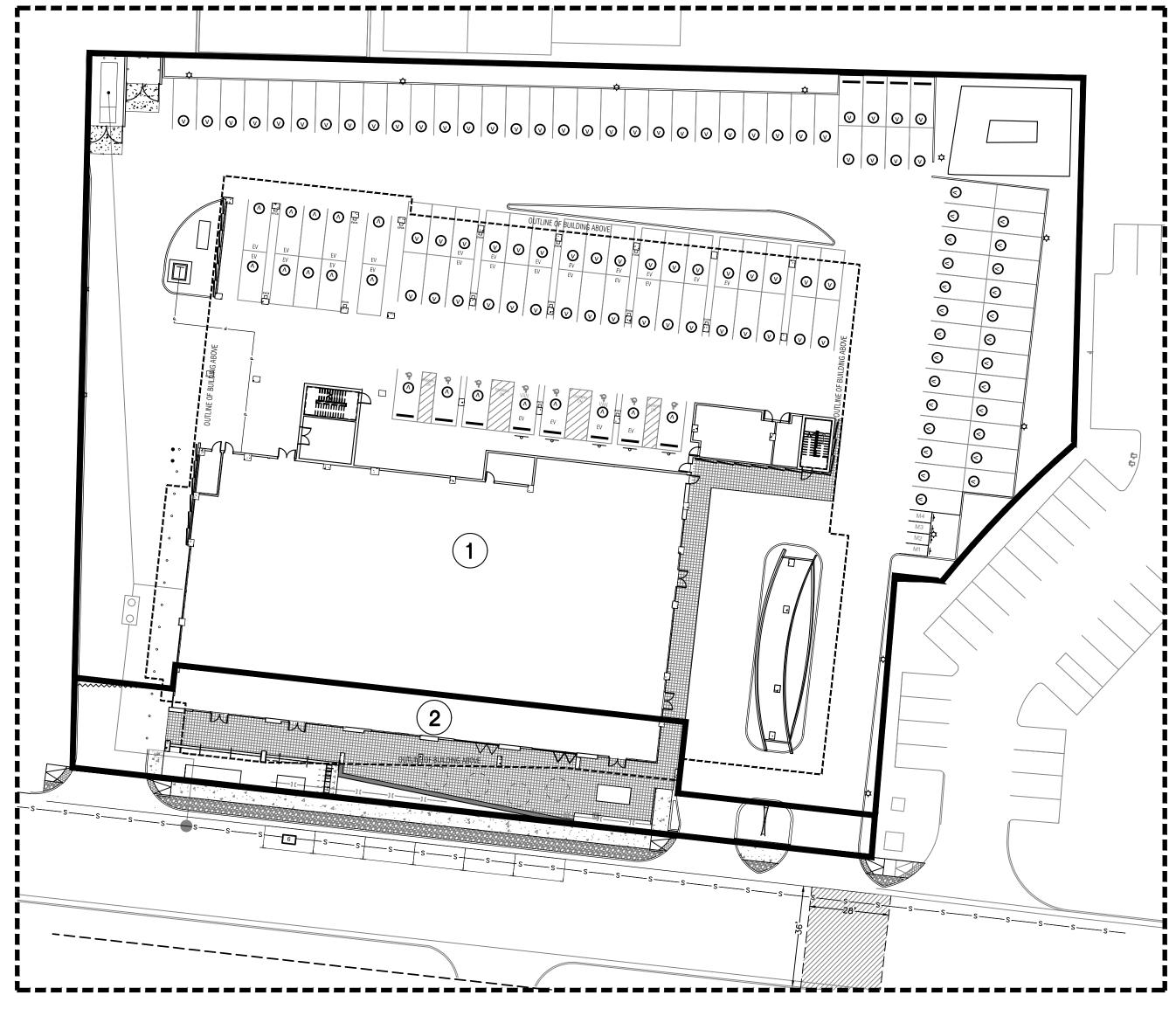
pm DATE 1-4-23 GRADING PLAN DRAWING

TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com

GR-1 JOB # 2022047

RONALD R. BOHANNAN P.E. #7868





EXISTING BASINS

				vveig	intea E	Metho	a						-	
s														
										100-Year			10-Year	
rea Area	Trea	atment A	Trea	tment B	Treat	ment C	Treat	tment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
sf) (acres) %	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs	(in)	(ac-ft)	cfs
9,818 0.2	23 0%	0	0%	0.00	0%	0.00	100%	0.23	2.330	0.044	0.98	1.510	0.028	0.61
8,088 0.1	9 0%	0	0%	0.00	0%	0.00	100%	0.19	2.330	0.036	0.81	1.510	0.023	0.50
7,325 0.1			0%	0.00	0%	0.00	100%	0.17	2.330	0.033	0.73	1.510	0.021	0.46
0.7				0.00	38%	0.27	62%	0.44	1.836	0.109	2.74	1.119	0.066	1.62
32,203 0.7	4 0%	0	0%	0.00	35%	0.26	65%	0.48	1.875	0.116	2.87	1.150	0.071	1.71
										0.337	8.13			
sins														
										100-Year			10-Year	
rea Area	111	atment A		tment B		ment C		tment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
sf) (acres		(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs	(in)	(ac-ft)	cfs
78,739 1.8			100000000000000000000000000000000000000	0.22	0%	0.00		1.63	2.193	0.330	7.57	1.395	0.210	4.61
9,607 0.2	2 0%	0	3%	0.01	0%	0.00	97%	0.21	2.284	0.042	0.94	1.474	0.027	0.59
								1.84		0.372	8.52			
								Req	uired Ponding	0.036				
				Excess Pre	ecipitation,	E (inches)		Peak	Discharge (cf	s/acre)				
Ea*Aa + Eb*Ab	+ Ec*Ac +	Ed*Ad / (Tota	al Area)	Zone 2	100-Year	10 - Year		Zone 2	100-Year	10 - Year				
				Ea	0.62	0.15		Qa	1.71	0.41				
hted D * Total A	rea			E _b	0.8	0.3		Qb	2.36	0.95				
				Ec	1.03	0.48		Qc	3.05	1.59				
+ Qb * Ab + Qc	* Ac + Qd	* Ad		E _d	2.33	1.51		Q_d	4.34	2.71				
			Qc * Ac + Qd * Ad		Ec	E _c 1.03	E _c 1.03 0.48	E _c 1.03 0.48	E _c 1.03 0.48 Q _c	E _c 1.03 0.48 Q _c 3.05	E _c 1.03 0.48 Q _c 3.05 1.59	E _c 1.03 0.48 Q _c 3.05 1.59	E _c 1.03 0.48 Q _c 3.05 1.59	E _c 1.03 0.48 Q _c 3.05 1.59

PROPOSED BASINS

ENGINEER'S SEAL	1921 BELLAMAH AVE NW ALBUQUERQUE, NM	<i>DRAWN BY</i> pm		
DR. BOHANA ON MEXICO 7868	,	<i>DATE</i> 1-4-23		
	BASIN MAP	DRAWING		
PROFITE CO.		SHEET #		
1-4-23	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	GR-2		
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	<i>JOB #</i> 2022047		