CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



February 21, 2024

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

RE: Playa Del Sur Subdivision

Conceptual Grading & Drainage Plans Engineer's Stamp Date: 02/02/2024

Hydrology File: H11D075

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 1/26/2024, the Conceptual Grading & Drainage Plan is preliminary approved for Grading Permit and for action by the DHO for Platting action.

PO Box 1293

PRIOR TO BUILDING PERMIT:

Albuquerque

• Provide more detailed design as needed in order to obtain Hydrology's approval.

NM 87103

As a reminder, 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 (Dough Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

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

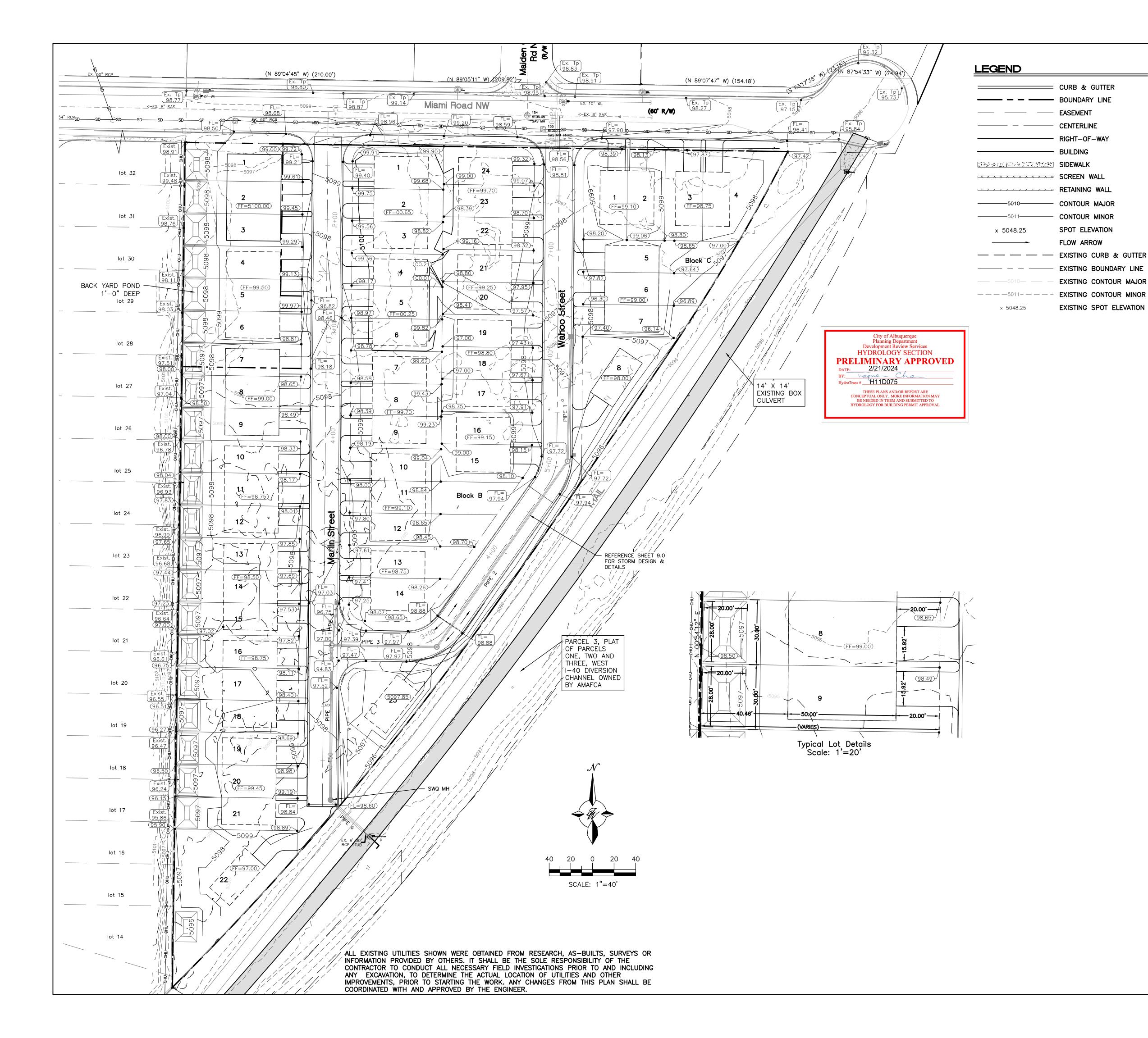


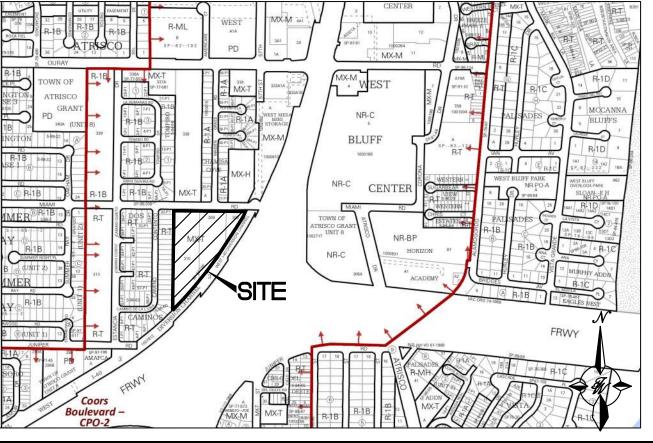
City of Albuquerque

Planning Department
Development & Building Services Division

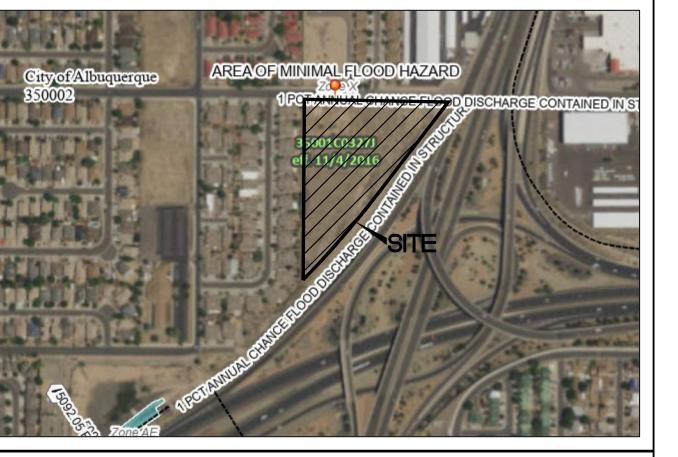
DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title:		Hydrology File #
Legal Description:		
City Address, UPC, OR Parcel	:	
Applicant/Agent:		Contact:
		Phone:
Email:		
Applicant/Owner:		Contact:
Address:		Phone:
Email:		
(Please note that a DFT SITE is or	ne that needs Site Plan A	pproval & ADMIN SITE is one that does not need it.)
TYPE OF DEVELOPMENT:	PLAT (#of lots)	RESIDENCE
	DFT SITE	ADMIN SITE
RE-SUBMITTAL: YES	NO	
DEPARTMENT: TRANS		HYDROLOGY/DRAINAGE
——————————————————————————————————————	STORTATION	III DROEOG I/DRAINAGE
Check all that apply under Both	the Type of Submittal	and the Type of Approval Sought:
TYPE OF SUBMITTAL:		TYPE OF APPROVAL SOUGHT:
ENGINEER/ARCHITECT CE	RTIFICATION	BUILDING PERMIT APPROVAL
PAD CERTIFICATION		CERTIFICATE OF OCCUPANCY
CONCEPTUAL G&D PLAN		CONCEPTUAL TCL DFT APPROVAL
GRADING & DRAINAGE PI	LAN	PRELIMINARY PLAT APPROVAL
DRAINAGE REPORT		FINAL PLAT APPROVAL
DRAINAGE MASTER PLAN		SITE PLAN FOR BLDG PERMIT DFT
CLOMR/LOMR		APPROVAL
TRAFFIC CIRCULATION LA	AYOUT (TCL)	SIA/RELEASE OF FINANCIAL GUARANTEE
ADMINISTRATIVE		FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LA APPROVAL	AYOUT FOR DFT	GRADING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)	SO-19 APPROVAL
STREET LIGHT LAYOUT		PAVING PERMIT APPROVAL
OTHER (SPECIFY)		GRADING PAD CERTIFICATION
(20 1)		WORK ORDER APPROVAL
		CLOMR/LOMR
		OTHER (SPECIFY)
DATE SUBMITTED:		





VICINITY MAP:



FIRM MAP: 35001C03271

PRIVATE DRAINAGE FACI; TIES WITHIN CITY RIGHT-OF-WAY NOTICE TO CONTRACTOR (SPECIAL ORDER 19 - "SO-19")

- 1. BUILD SIDEWALK CULVERT PER COA STD DWG 2236.
- 2. CONTACT STORM MAINTENANCE AT (505)857-8033 TO SCHEDULE A MEETING PRIOR TO FORMING.
- 3. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 4. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH
- APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL. DIAL "811" [OR (505)260-1990] FOR THE
- LOCATION OF EXISTING UTILITIES.

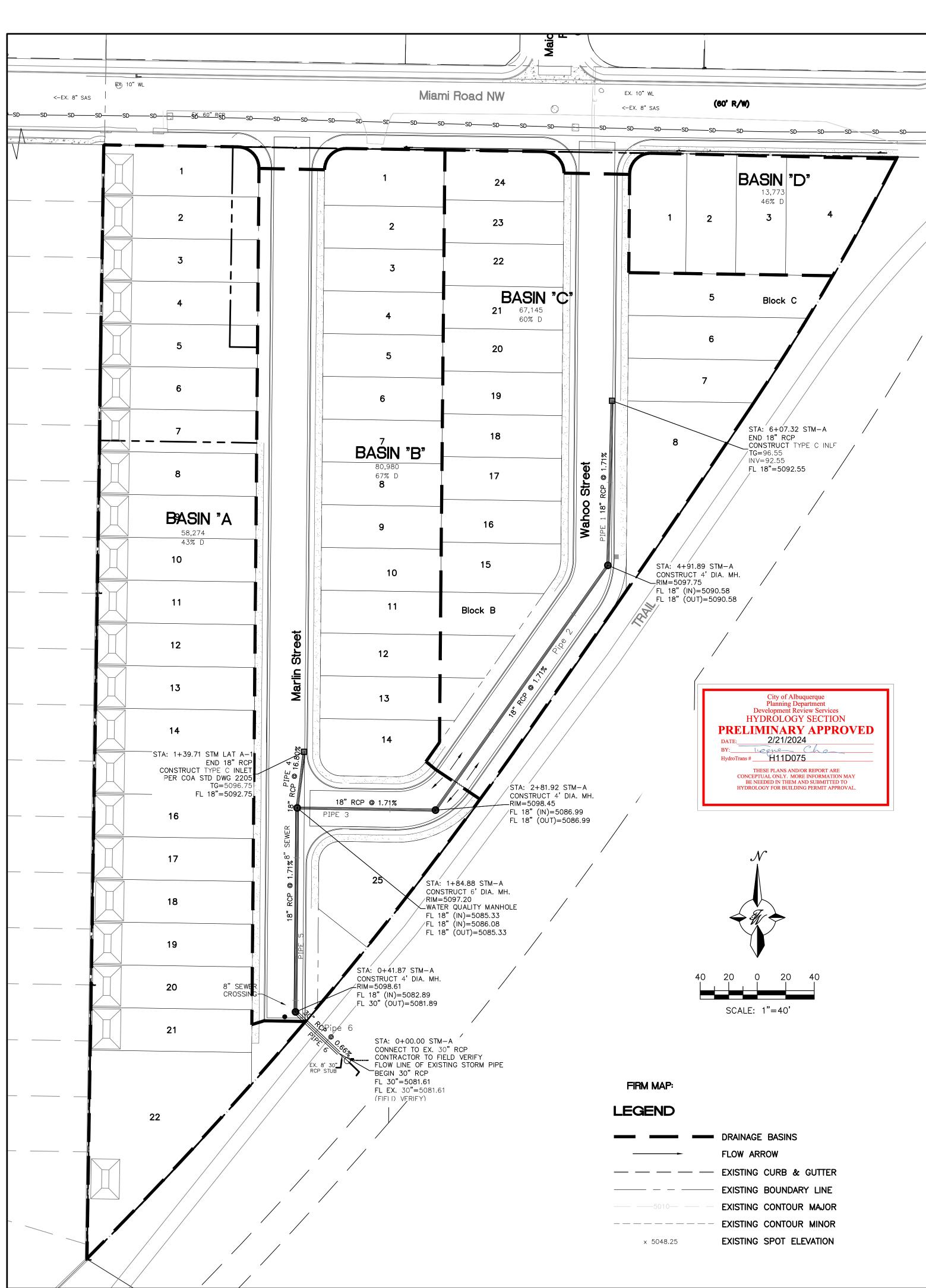
 6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF ALL OBSTRUCTIONS. SHOULD CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT CONFLICT CAN BE RESOLVED WITH A
- MINIMUM AMOUNT OF DELAY.
- 7. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
 8. MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF
- THE PROPERTY BEING SERVED.

 9. WORK ON ARTERIAL STREETS MAY REQUIRED ON A 24-HOUR BASIS.
- 10. CONTRACTOR MUST CONTACT STORM MAINTENANCE AT (505)857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND BARRICADING INSPECTIONS, CONTACT CONSTRUCTION COORDINATION AT (505)924-3416.

APPROVED FOR CONSTRUCTION WITHIN AMAFCA RIGHT OF WAY/EASEMENT

(FOR AMAFCA)





Weighted E Method	eighted E	Method
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Basin	Area	Area	Trea	tment A	Trea	tment B	Treatr	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
Α	80,980	1.86	0%	0	57%	1.06	0%	0.00	43%	0.80	1.379	0.214	5.58	0.763	0.118	2.91
В	76,978	1.77	0%	0	33%	0.58	0%	0.00	67%	1.18	1.742	0.256	6.14	1.044	0.154	3.52
С	67,145	1.54	0%	0	40%	0.62	0%	0.00	60%	0.92	1.636	0.210	5.14	0.962	0.124	2.88
D	13,773	0.32	0%	0	54%	0.17	0%	0.00	46%	0.15	1.425	0.038	0.97	0.798	0.021	0.51
										3.05			17.83			
Pre	238,876	5.48	0%	0	100%	5.48	0%	0.00	0%	0.00	0.730	0.334	11.85	0.260	0.119	4.44
Lot	3,330	0.08	0%	0	45%	0.03	0%	0.00	55%	0.04	1.561	0.010	0.25	0.904	0.006	0.14

Equations:

Equations.										
				Excess Pr	ecipitation	E (inches)	Peak	Discharge (c	fs/acre)	
Weighted E = Ea*Aa + Eb*	Ab + Ec*Ac	+ Ed*Ad	/ (Total Area)	Zone 1	100-Year	10 - Year	Zone 1	100-Year	10 - Year	
				Ea	0.55	0.11	Qa	1.54	0.3	
Volume = Weighted D * To	tal Area			Eb	0.73	0.26	Q _b	2.16	0.81	
				Ec	0.95	0.43	Qc	2.87	1.46	
Flow = Qa * Aa + Qb * Ab +	- Qc * Ac + C	d * Ad		Ed	2.24	1.43	Q _d	4.12	2.57	

Water Quality Calculation: 0.42" x 3.05 ac = 4,650 cubic feet (0.107 ac-ft)

AMAFCA GENERAL COSTRUCTION NOTES REQUIREMENTS

AMAFCA'S PROJECT MANAGER SHALL BE NOTIFIED BY EMAIL AT LICENSING MANAFCA.ORG OR BY PHONE AT (505) 884-2215 AT LEAST TEN (10) DAYS PRIOR TO START OF ANY WORK IN AMAFCA ROW/EASEMENT.

AMAFCA'S PROJECT MANAGER SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY CONCRETE INSTALLATION TO ALLOW FOR INSPECTION OF THE REBAR AND SUBSURFACE PREPARATION.

AMAFCA'S PROJECT MANAGER SHALL BE NOTIFIED BY EMAIL AT LICENSING MAAFCA.ORG OR BY PHONE AT (505) 884-2215 AT LEAST TEN (10) DAYS PRIOR TO REQUEST FOR FINAL INSPECTION OF THE WORK WITHIN THE AMAFCA RIGHT-OF-WAY OR EASEMENT.

NO WORK WILL BE PERFORMED IN THE AMAFCA ROW/EASEMENT BETWEEN MAY 15 AND OCTOBER 15 WITHOUT PRIOR WRITTEN AUTHORIZATION FROM AMAFCA.

ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 95% ($\pm 2\%$ OF OPTIMUM MOISTURE PER ASTM D-1557) WITHIN THE AMAFCA ROW/EASEMENT. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA AT THE FINAL INSPECTION.

CERTIFIED AS-BUILT PLANS SHALL BE SUBMITTED TO AMAFCA FOR ANY CONSTRUCTION WITHIN THE AMAFCA ROW/EASEMENT BEFORE FINAL WRITTEN ACCEPTANCE OR ACKNOWLEDGEMENT OF THE PROJECT.

ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 1012 NATIVE GRASS SEEDING, AS CURRENTLY UPDATED.

ANY EXISTING SURVEY CONTROL MONUMENTS THAT ARE DISTURBED OR DAMAGED AS A RESULT OF THE CONSTRUCTION OR MAINTENANCE ACTIVITIES, SHALL BE REPLACED BY A LICENSED SURVEYOR IN NEW MEXICO AT THE CONTRACTOR'S EXPENSE. AMAFCA SHALL BE NOTIFIED AT LEAST FORTY—EIGHT (48) HOURS PRIOR TO ANY MONUMENT PLACEMENT.

THE CONTRACTOR SHALL MAINTAIN OR REPAIR ALL AMAFCA INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO FENCING, GATES, SIGNAGE, AND ALL OTHER FACILITIES. ALL REPAIRS WILL BE PERFORMED TO RETURN FACILITIES TO ORIGINAL OR AMAFCA—APPROVED CONDITION.

DUST SUPPRESSION SHALL BE MAINTAINED SEVEN (7) DAYS A WEEK DURING CONSTRUCTION ACTIVITY. DURING PERIODS OF CONSTRUCTION INACTIVITY, THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN DUST CONTROL MEASURES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TRACK-OUT REDUCTION MEASURES AND CLEAN UP ANY TRACK-OUT OF MATERIAL. THE CONTRACTOR SHALL CLEAN UP ANY SOIL DEPOSITS OR SPILLS ON ALL PAVED ROADS ALONG HAUL ROUTES.

THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC AND PEDESTRIAN CONTROL.

AT THE END OF EACH WORKDAY AND DURING TIMES OF CONSTRUCTION INACTIVITY, THE CONTRACTOR SHALL ENSURE ALL ACCESS GATES TO THE FACILITY ARE CLOSED AND LOCKED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRASH AND DEBRIS REMOVAL IN THE AREA OF THE CONSTRUCTION ACTIVITY. ALL GRAFFITI WILL BE REMOVED OR APPROPRIATELY COVERED UP WITHIN ONE DAY (24 HOURS).

ANY FINES IMPOSED AGAINST AMAFCA DUE TO THE CONTRACTOR'S ACTIVITIES THAT VIOLATE THE CONDITIONS OF ANY REQUIRED DUST OR STORMWATER QUALITY PERMIT SHALL BE REIMBURSED BY THE CONTRACTOR.

ANY FINES LEVIED AGAINST THE CONTRACTOR DUE TO ITS ACTIVITIES THAT VIOLATE ANY LOCAL STATUTES OR REQUIREMENTS SHALL BE PAID BY THE CONTRACTOR.

IF AMAFCA IS FINED AS BEING THE LANDOWNER OF THE PROPERTY, DUE TO THE CONTRACTOR'S ACTIVITIES, THE CONTRACTOR SHALL REIMBURSE AMAFCA FOR ALL COSTS ASSOCIATED WITH PAYMENT OF THE FINE BY AMAFCA.

AT THE SUBSTANTIAL COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL RESTORE TO CONDITIONS AS BEFORE CONSTRUCTION OR IMPROVE TO AMAFCA'S REQUIREMENT THE MAINTENANCE ACCESS ROADS IMPACTED BY THE PROJECT INCLUDING ALL NECESSARY GRADING AND TOP DRESSING OF THE ROAD BASE OR GRAVEL MATERIAL AT THE DIRECTION OF AUTHORIZED AMAFCA PERSONNEL. ANY CONCRETE, ASPHALT OR OTHER DEBRIS FOUND WITHIN THE CONSTRUCTION AREA WILL BE TRANSPORTED OFF SITE AND APPROPRIATELY DISPOSED OF BY THE CONTRACTOR AT NO COST TO AMAFCA.

OPTIONAL DEPENDING ON FACILITY:

A TEMPORARY CONSTRUCTION AND ACCESS LICENSE IS REQUIRED TO BE EXECUTED PRIOR TO WORK COMMENCING IN AMAFCA ROW/EASEMENT

THE MAXIMUM WHEEL LOAD ALLOWED IN THE AMAFCA CHANNEL SHALL BE TWELVE THOUSAND (12,000) POUNDS.

NO TRACKED VEHICLES WILL BE ALLOWED IN AMAFCA HARD-LINED OR CONCRETE CHANNEL WITHOUT WRITTEN PERMISSION FROM AMAFCA.

CRANES OPERATING WITH OUTRIGGERS IN THE CHANNEL SHALL LIMIT THE OUTRIGGER FOOTPRINT LOAD AREA TO LESS THAN TWELVE THOUSAND (12,000) POUNDS.

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IDC	Capa	ICILV

100-Year

10-Year

					A		
Pipe	D	Slope	Area	R	Q Provided	Q Required	Velocity
5g:	(in)	(%)	(ft^2)		(cfs)	(cfs)	(ft/s)
1	18	1.73	1.77	0.375	13.85	5.14	2.91
2	18	1.73	1.77	0.375	13.85	5.14	2.91
3	18	1.73	1.77	0.375	13.85	5.14	2.91
4	18	2.00	1.77	0.375	14.90	6.14	3.47
5	18	2.00	1.77	0.375	14.90	11.28	6.38
6	30	1.03	4.91	0.625	41.74	11.28	2.30

Manning's Eq	uation:
Q = 1.49/n * A	* R^(2/3) * S^(1/2)

A =	Area	
R=	D/4	
S =	Slope	
n -	0.013	

EXISTING DRAINAGE:

THIS SITE IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSTATE 40 AND COORS BOULEVARD INTERCHANGE. THE SITE IS BOUNDED BY A RESIDENTIAL SUBDIVISION ON THE WEST AND NORTH AND BY COORS BOULEVARD ON THE EAST AND SOUTH CONTAINING CONTAINING APPROXIMATELY 5.20 ACRES. THE SITE IS CURRENTLY VACANT AND DRAINS FROM NORTH TO SOUTH. THERE ARE NO OFFSITE FLOWS THAT ENTER THE SITE. THE SITE IS NOT LOCATED IN A FLOOD PLAIN AS SHOWN ON FIRM MAP 35001C0327J. THE SITE CURRENTLY DISCHARGES 10.82 CFS.

PROPOSED DRAINAGE:

THE PROJECT CONSISTS OF A RESIDENTIAL SUBDIVISION. WATERBLOCKS WILL BE CREATED AT THE INTERSECTIONS WITH MIAMI ROAD TO PREVENT WATER FROM THAT STREET ENTERING THE SUBDIVISION. THE SITE IS DIVIDED INTO FOUR BASINS. BASIN "A" IS ALONG THE WEST PROPERTY LINE NEXT TO AN EXISTING SUBDIVISION. BECAUSE OF THE GRADE OF THE NEW STREET THESE LOTS ARE NOT ABLE TO DRAIN FROM BACK TO FRONT AND CONTAIN BACKYARD RETENTION PONDS SIZED TO HOLD THE 100 YR, 6-HR STORM. THESE PONDS WOULD OVERFLOW TO THE SOUTH AND EVENTUALLY TO THE AMAFCA RIGHT OF WAY IN LARGER STORMS. OPENINGS WILL BE PROVIDED IN THE WALLS BETWEEN THE LOTS TO ALLOW EXCESS STORM WATER TO FLOW TO THE SOUTH. A DRAINAGE EASEMENT FOR THESE PONDS WILL BE PROVIDED ON THE SUBDIVISION PLAT. BASIN "B" CONSISTS OF MARLIN STREET AND THE LOTS ON THE EAST SIDE OF MARLIN STREET. BASIN "B" DRAINS TO A DROP INLET AT THE INTERSECTION WITH WAHOO STREET AND CONVEYED TO THE EXISTING AMAFCA BOX CULVERT VIA STORM SEWER. BASIN "C" CONSISTS OF WAHOO STREET AND LOTS ON BOTH SIDES. BASIN "C" DRAINS TO A DROP INLET MIDBLOCK AND CONVEYED TO THE EXISTING AMAFCA BOX CULVERT VIA STORM SEWER. BASIN "D" CONSISTS OF FOUR LOTS ALONG MIAMI ROAD AND WILL DRAIN TO THAT ROAD. THE FLOWS IN MIAMI ROAD ARE COLLECTED VIA DROP INLETS AND CONVEYED VIA STORM SEWER TO THE AMAFCA BOX CULVERT. THE STORM SEWER WILL DRAIN TO AN EXISTING 30" RCP STUB FROM THE WEST BLUFF OUTFALL BOX CULVERT LOCATED ALONG THE EAST PROPERTY LINE. BASED ON THE WEST BLUFF OUTFALL PHASE II I-40 STORM SEWER INTERCEPTOR REPORT THIS PROJECT MAY DISCHARGE DEVELOPED FLOWS WHICH IS 16.27 CFS. THE EXISTING 30" STUB HAS A CAPACITY OF 58.16 CFS. THE WATER QUALITY VOLUME REQUIREMENT IS 0.107 AC-FT. BASIN "A" PONDS 0.214 AC-FT, WHICH IS TWICE WHAT IS REQUIRED.

ENGINEER'S SEAL	PLAYA DEL SUR	<i>DRAWN BY</i> AS
DR. BOHANDAZ	DRAINAGE & STORM PLAN	<i>DATE</i> 02/02/24
7868 C Z	DRAINAGE & STORWIFEAN	<i>DRAWING</i> 2023024-X_DR
The County of th		SHEET #
O2/02/24	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109	C9
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	<i>JOB #</i> 2023024