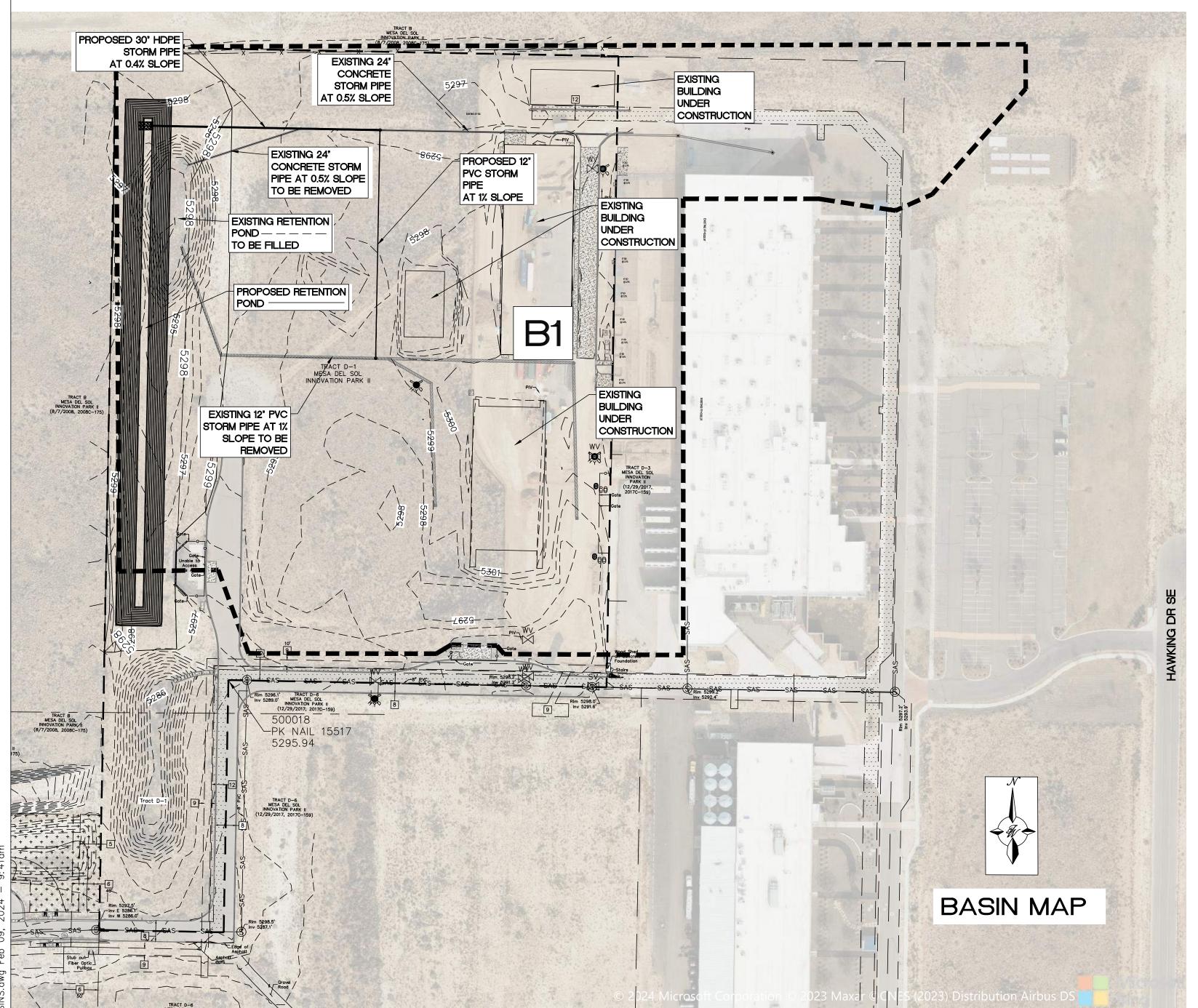


City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title: Mesa del Sol Innovation Park Po	nnovation park II (a subdivision of tract 3 mesa del sol innovation park I
Legal Description: TR D-1 [:AT PF TRACTS D-1 TJRI D-7 MESA DEL SOL I	NNOVATION PARK II (A SUBDIVISION OF TRACT 3 MESA DEL SOL INNOVATION PARK II
City Address, UPC, OR Parcel: 10160522701774	40201
Applicant/Agent: Tierra West LLC	Contact: Luis Noriega
Address: 5571 Midway Park PI NE	Phone: 505-858-3100
Email: Inoriega@tierrawestllc.com	
Applicant/Owner:	Contact:
Address:	Phone:
Email:	
(Please note that a DFT SITE is one that needs Site Plan A	Approval & ADMIN SITE is one that does not need it.)
`	
TYPE OF DEVELOPMENT: PLAT (#of lots)	
DFT SITE	ADMIN SITE
RE-SUBMITTAL: YES 🗸 NO	
DEPARTMENT: TRANSPORTATION	HYDROLOGY/DRAINAGE
Check all that apply under Both the Type of Submitta	l and the Type of Approval Sought:
TYPE OF SUBMITTAL:	TYPE OF APPROVAL SOUGHT:
ENGINEER/ARCHITECT CERTIFICATION	BUILDING PERMIT APPROVAL
PAD CERTIFICATION	CERTIFICATE OF OCCUPANCY
CONCEPTUAL G&D PLAN	CONCEPTUAL TCL DFT APPROVAL
GRADING & DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
DRAINAGE REPORT	FINAL PLAT APPROVAL
DRAINAGE MASTER PLAN	SITE PLAN FOR BLDG PERMIT DFT
CLOMR/LOMR	APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	SIA/RELEASE OF FINANCIAL GUARANTEE
ADMINISTRATIVE	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT FOR DFT APPROVAL	GRADING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)	SO-19 APPROVAL
STREET LIGHT LAYOUT	PAVING PERMIT APPROVAL
	GRADING PAD CERTIFICATION
OTHER (SPECIFY)	WORK ORDER APPROVAL
	CLOMR/LOMR
	OTHER (SPECIFY)
DATE SUBMITTED: 02/09/2023	



LEGEND

CURB & GUTTER SPOT ELEVATION x 5048.25 - PROPERTY LINE FLOW ARROW EXISTING CONCRETE STORM DRAIN PIPE ----- EASEMENT ---- BUILDING EXISTING PVC STORM DRAIN PIPE SIDEWALK/CONCRETE STORM DRAIN ----5010------ CONTOUR MAJOR BASIN BOUNDARY LINE -----5011------ CONTOUR MINOR

HYDROLOGY NOTES

THE PROJECT SITE IS LOCATED ON THE EAST SIDE OF ALBUQUERQUE WITHIN THE MESA DEL SOL INNOVATION PARK. THE PROJECT BASIN AS OF 02/06/2024 HAS RECENTLY BEEN DEVELOPED AT ROUGHLY 50% WITH SEVERAL BUILDINGS AND INCLUDES PAVING, UTILITIES AND STORM DRAIN. STORM WATER WITHIN THE BASIN BOUNDARY CURRENTLY FLOWS TO A RETENTION POND LOCATED ON THE WEST SIDE OF THE BASIN BOUNDARY. THE INTEND OF THIS DRAINAGE REPORT IS TO IDENTIFY THE MINIMUM RETENTION POND SIZE REQUIRED TO CONTAIN THE 100 YR- 10 DAY STORM FOR FULLY DEVELOPED CONDITIONS.

THE SITE IS NOT LOCATED IN A 100YR FLOOD ZONE PER FEMA FIRM MAP

DPM Weighted E Method Precipitation Zone 2 Area Vicinity Site Name and Address: Mesa Del Sol Kairos Pond

HYDROLOGY CALCULATION TABLES

OTHER AREAS OF FLOOD HAZARD SITE OTHER AREAS GENERAL ---AREA OF MINIMAL FLOOD HAZARI MAP PANELS 9 This map complies digital flood maps The basemap sho accuracy standard The flood hazard is authoritative NFHI was exported on 2 reflect changes or time. The NFHL ar become supersed CRICK AVE SE FIRM MAP: 35001C0363G

LEGAL DESCRIPTION

TR D-1 PLAT OF TRACTS D-1 THRU D-7 MESA DEL SOL INNOVATION PARK II (A SUBDIVISION OFTRACT D MESA DEL SOL INNOVATION PARK II) CONT 16.4161 AC

ACS BENCHMARK

A.G.R.S. MONUMENT "4-Q16" NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE-N.A.D. 1983) PUBLISHED EL=5298.643 US SURVEY FT (NAVD 1988)

EXISTING CONDITIONS

	Basin Descriptions								100-Year, 10-Day						
Basin	Area	Area	Area	Treatr	nent A	Trea	tment B	Treati	ment C	Treat	ment D	Weighted E	Volume	Flow	Volume
ID	(sf)	(acres)	(sq miles)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs	(cf)
B1	783,028	17.98	0.02809	0%	0.000	0%	0.000	60%	10.786	40%	7.190	1.550	3.119	64.10	135855.046
Total	783,028.00	17.976	0.02809		0.000		0.000		0.000		7.190		3.119	64.10	135855.05

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed

Flow = Qa*Aa + Qb*Ab + Qc*Ac + Qd*Ad

Volume = Weighted E * Total Area

Equations:

FULLY DEVELOPED CONDITIONS

	Basin Descriptions										100-Year, 10-Day				
Basin	Area	Area	Area	Treatr	nent A	Trea	tment B	Treati	ment C	Treat	ment D	Weighted E	Volume	Flow	Volume
ID	(sf)	(acres)	(sq miles)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs	(cf)
B1	783,028	17.98	0.02809	0%	0.000	0%	0.000	15%	2.696	85%	15.279	2.135	4.892	74.54	213081.005
Total	783,028.00	17.976	0.02809		0.000		0.000		0.000		15.279		4.892	74.54	213081.01

information.

Retention Pond Volume Calculation							
5,297.50	Ft.						
49,764	Sq. Ft.						
5,288.50	Ft.						
8,400	Sq. Ft.						
261,738.00	Cubic Ft.						
5,296.50	Ft.						
44,880.00	Sq. Ft.						
213,120.00	Cubic Ft.						
213,081.01	Cubic Ft.						
1.00	Ft.						
	5,297.50 49,764 5,288.50 8,400 261,738.00 5,296.50 44,880.00 213,120.00 213,081.01						

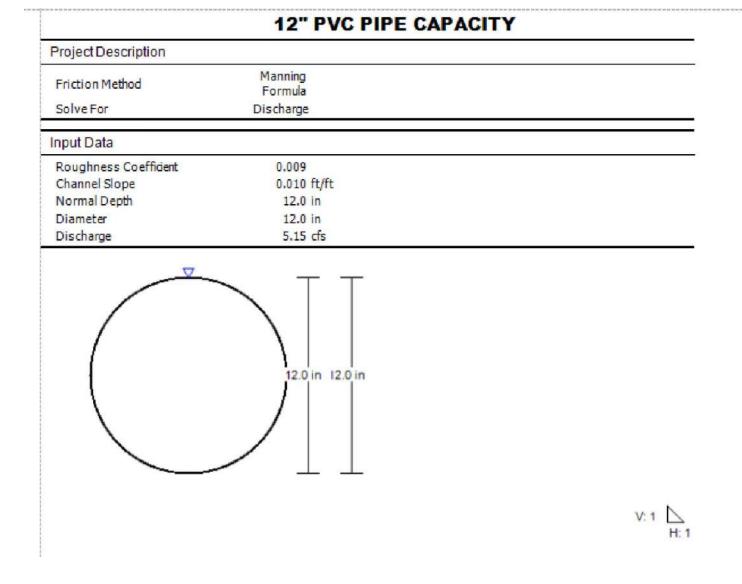
Pipe Sizing Calculation							
24" Conc Pipe Max Flow	16.00	CFS					
12" PVC Pipe Max Flow	5.15	CFS					
Combined Max Flow	21.15	CFS					
30" HDPE Pipe Max Flow	28.10	CFS					
Flow Required	21.15	CFS					
Note: Previous Drainage Reports Q16DA5000A and							

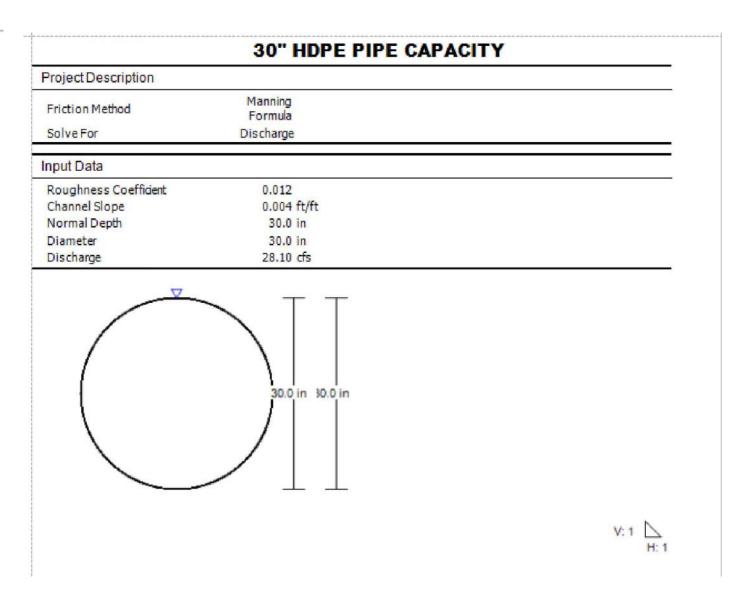
Q16DA5000B indicate that the existing storm drain pipe system is flowing at max capacity. Note: See pipe capacity charts for additional pipe

APPROVED 2/13/2024 BY: R16DA5000D

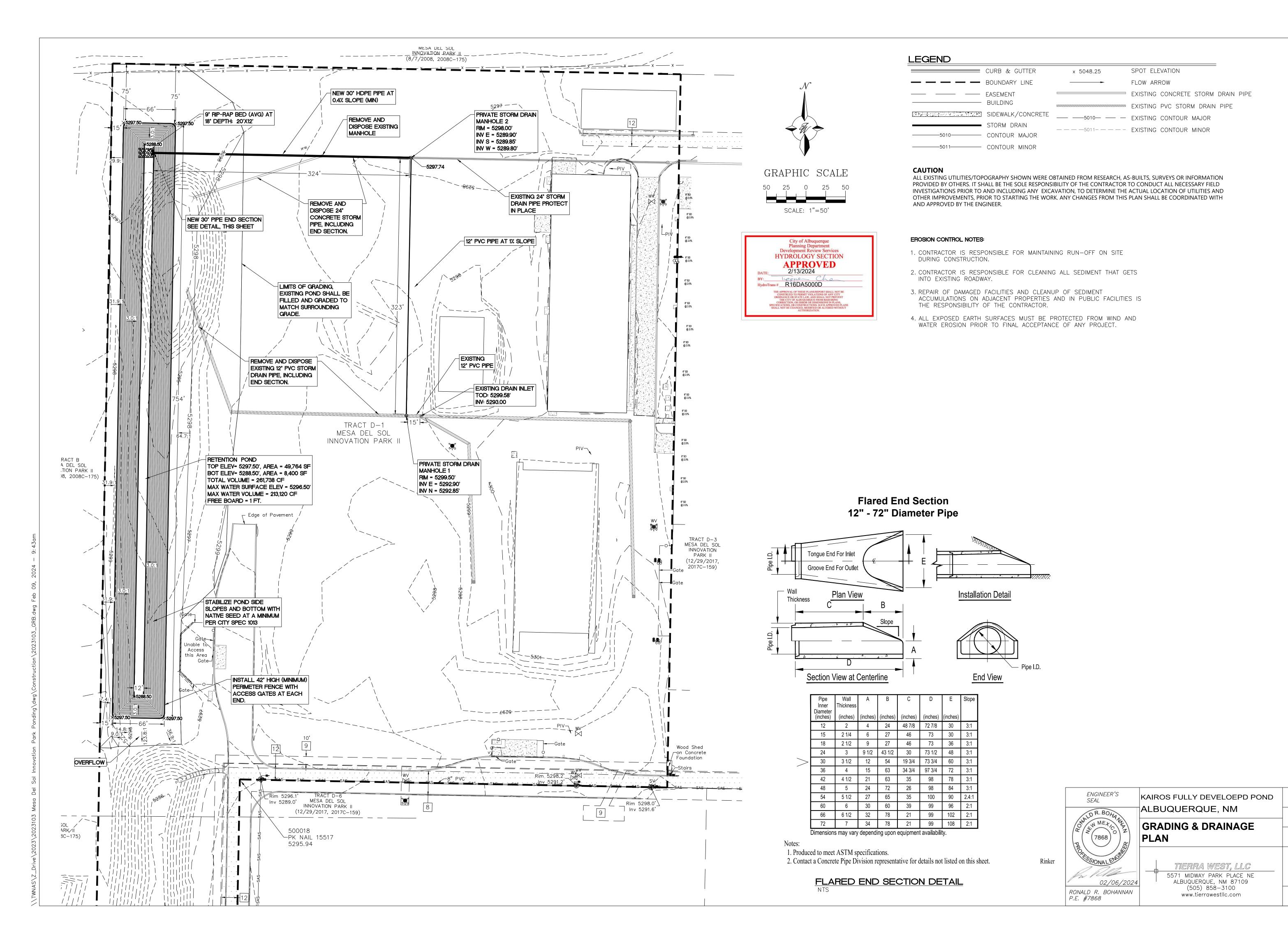
HYDROLOGY SECTION

24" CONCRETE PIPE CAPACITY Project Description Manning Formula Friction Method Discharge Solve For Input Data Roughness Coefficient 0.013 0.005 ft/ft Channel Slope Normal Depth 24.0 in Diameter 24.0 in Discharge 16.00 cfs V: 1 \(\text{H: 1} \)





ENGINEER'S SEAL	KAIROS FULLY DEVELOEPD POND	DRAWN BY BF
DK. BUY	ALBUQUERQUE, NM	<i>DATE</i> 02/06/2024
((7868))	GRADING AND DRAINAGE BASIN MAP	2023103_BASINS
02/06/2024	TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109	SHEET # GR-0
RONALD R. BOHANNAN P.E. #7868	(505) 858-3100 www.tierrawestllc.com	JOB # 2023103



DRAWN BY

BF

DATE 02/06/2024

2023103_GRB

SHEET #

GR-1

JOB #

2023103