

WASTEWATER COLLECTION SYSTEM BASIS OF DESIGN REPORT FOR ATAVIA - ONE SCOTTSDALE

March 5, 2024 WP# 235518 FINAL Basis of Design Report

■ APPROVED

☐ APPROVED AS NOTED

☑ REVISE AND RESUBMIT



Disclaimer: If approved; the approval is granted under the condition that the final construction documents submitted for city review will match the information herein. Any subsequent changes in the water or sewer design that materially impact design criteria or standards will require re-analysis, re-submittal, and approval of a revised basis of design report prior to the plan review submission.; this approval is not a guarantee of construction document acceptance. For questions or clarifications contact the Water Resources Planning and Engineering Department at 480-312-5685.

BY apritchard

DATE 5/10/2024

Prepared by Andrew Sanchez



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TOGESSION

se Y:\WP\Reports\Commercial\235518 Atavia - One Scottsdale Preliminary Wastewater BOD.docx

1.0 INTRODUCTION

Atavia – One Scottsdale (Site) is an approximately 4.58-acre parcel located within the One Scottsdale community development. The Site is a proposed multifamily development located approximately 600-feet east of Scottsdale Road and 700-feet south of Legacy Boulevard in Scottsdale, Arizona. The Site is located in Section 26, Township 4 North, Range 4 East of the Gila and Salt River Meridian. Refer to Exhibit 1 – *Vicinity Map* for project location. Proposed development for the Atavia – One Scottsdale parcel consists of 88 multifamily units and a 4,275-square foot Clubhouse with associated parking, landscape, hardscape, and utility services.

Prior to the submittal of this Report, a Master Report titled *One Scottsdale (Stacked 40s) Master Onsite Wastewater Plan* (20-ZN-2002#3) (ref 1) was approved by the City of Scottsdale. The proposed site improvements analyzed in this Report are included within the Planning Unit II portion of the Master Report. Specifically, the Site is proposed to align with sub-areas 2B and 2D as denoted within the Master Report. (Refer to Exhibit 2 - *Modeled On-site Land Use Plan*)

The design criteria used to estimate wastewater flows and evaluate system hydraulics were based on the design criteria used in the *One Scottsdale (Stacked 40s) Master Onsite Wastewater Plan*. The following is a summary of the primary design criteria utilized:

Average Day Wastewater flows, Residential 12-22 DU/ac:	100 gpd/person
Average Day Wastewater flows, Fitness Center/Spa/Health club:	0.8 gpd/sf
Population Density, Onsite	2 persons/DU
Peaking Factor, Residential 12-22 DU/ac:	4.0
Peaking Factor, Fitness Center/Spa/Health club:	3.5
Minimum Mean Full Flow Velocity:	2.50 fps
Minimum Peak Full Flow Velocity:	10.0 fps
Minimum Peak Flow d/D Ratio (12-inch diameter or less):	d/D = 0.65
Minimum Peak Full Flow Velocity:	10.0 fps
Minimum Peak Flow d/D Ratio (12-inch diameter or greater):	d/D = 0.70

Abbreviations: gpd = gallons per day; sf = square foot; DU = Dwelling Unit; fps = feet per second

2.0 EXISTING WASTEWATER INFRASTRUCTURE

Existing wastewater infrastructure adjacent to Planning Unit II includes a public 12-inch sewer main within a portion of Legacy Boulevard and a public 15-inch sewer main in Scottsdale Road. Two (2) exiting 10-inch sewer stubs extend from the public sewer main in Scottsdale Road toward the western property boundary of Planning Unit II.

Within Planning Unit II, there is an existing 8-inch sanitary sewer main that runs within Henkey Way. This line has been designed to serve the existing building at the southwest corner of the Site and future parcels along Henkey Way. This sewer line was constructed per the *One Scottsdale - Planning Unit II South End Improvements Sewer Plan* (C.O.S. #3030-06-1) (ref 2).

There is also an onsite sewer main that is currently under construction within the Planning Unit II site. This line runs within the 73rd Way roadway alignment currently under construction, than turns to cross west along Planning Unit II to the outfall at the 12-inch stub within the Henkel Drive connection to Scottsdale Road. Pipe sizes vary from 10-inches to 12-inches in accordance with sewer demands. Please refer to the approved *One Scottsdale Private Drive Plan* (C.O.S. #2328-22) (ref 3).

3.0 PROPOSED WASTEWATER INFRASTRUCTURE

3.1 Onsite Infrastructure (Post Development)

The Master Report analyzed the overall wastewater infrastructure needed to serve the One Scottsdale development, including this Site. This infrastructure has been described in Section 2.0 of this Report.

The proposed private sewer system for the Site will consist of a 6-inch sewer service for each of the fifteen (15) buildings located on the Site. These services will connect the two (2) 8-inch private sewer lines with manholes flowing north to south through the Site. The proposed private sewer system will outfall to the south of the Site, into the 12-inch sewer that is currently under construction.

3.2 Modeling and Results

As noted in Section 1.0 of this report, a master report for the One Scottsdale development was previously approved by the City of Scottsdale titled *One Scottsdale (Stacked 40s) Master Onsite Wastewater Plan* (ref 1). That report analyzed the overall wastewater demands for the One Scottsdale project, including the proposed project Site. The proposed Site aligns with sub-areas 2B and 2D from that Master Report. Refer to Exhibit 3 – *Onsite Wastewater Collection System Exhibit* and Exhibit 2 – *Modeled On-site Land Use Plan*.

Based on the design criteria utilized within the Master Report, the projected average day flow for the Site is calculated to be 21,050 gpd and the peak flow is projected to be 73,850 gpd. Refer to Appendix A – *Wastewater Demand Calculations*. Previously defined flows within the master wastewater report for the areas 2B and 2D were found to be 134,998 gallons per day (gpd) for the average day flow and 454,198 gpd for the peak flow. Refer to Appendix B - *Excerpts of Master Report Calculations Relevant to The Atavia* – *One Scottsdale Improvements* for applicable flows from Master Report. Per these numbers, the calculated peak flow for the proposed Site improvements is less than what was anticipated in the Master Report analysis. Therefore, it is our understanding that the sewer system as designed has capacity to serve the Site.

Per the direction of the City of Scottsdale, the projected flow for the Site was also calculated using the design criteria from the Design Standards & Policies Manual (2018) (ref 4). Using these design criteria, the Site has a projected average day flow of 25,450 gpd and a projected peak flow of 100,076 gpd. These flows have been provided as a reference for the City of Scottsdale and are not meant to be used when analyzing the existing and proposed wastewater infrastructure for the Site. Refer to Appendix A – *Wastewater Demand Calculations*.

The infiltration and inflow from wet weather has been accounted for in the published design flow rates for the development and the maximum d/D of 0.65 per City of Scottsdale – Design Standards and Policies Manual Section 7-404.

4.0 CONCLUSIONS

Based on our analysis of the Site, the following conclusions can be made:

- 1. The design criteria used to estimate wastewater flows and evaluate system hydraulics are based on the approved *One Scottsdale (Stacked 40s) Master Onsite Wastewater Plan.*
- 2. The projected average-day flow for the proposed Site is calculated to be 26,921 gpd, with a projected peak flow of 105,223 gpd. The proposed wastewater infrastructure is anticipated to have sufficient capacity for these flows, since they are less than the flows anticipated in the Master Report.

5.0 REFERENCES

- One Scottsdale (Stacked 40s) Master Onsite Wastewater Plan, Wood, Patel & Associates, Inc. Revised January 28, 2016
- 2. One Scottsdale Private Drive Plan, Wood, Patel & Associates, Inc. Submitted August 18, 2022
- One Scottsdale Planning Unit II South End Improvements Water Plan, Wood, Patel & Associates, Inc. Submitted December 12, 2007
- 4. Design Standards & Policies Manual, City of Scottsdale, 2018

APPENDIX A – WASTEWATER DEMAND CALCULATIONS



Unit from MP appears to be 200 gpd/DU

WASTEWATER DEMAND CALCULATIONS

FULL BUILD-OUT CONDITION DESIGN CRITERIA PER ONE SCOTTSDALE (STACKED 40s) MASTER ON-SITE WASTEWATER PLAN (2016)

flow, as done in the Master Plan.

Project Atavia - One Scottsdale

Location Scottsdale, AZ

Project Number 215518

Project Engineer Zachary Radovich, ₱E

References One Scottsdale (Stacked 40s) Master On-Site Wastewater Plan (2016)

Value differs from

Water BOD

Arizona Administrative Code, Title 1/8, Chapter 9

3.5

Need to show which scenario yields the greatest peak

PROPOSED SITE IMPROVEMENTS

Node	Residential (DU)	Fitness Center / Spa / Health club (sf)	Residential (persons/DU)	Fitness Center / Spa / Health club	(gpd)	PEAKING FACTOR (Residential)	PEAKING FAC (Fitness Center / Health club	/ Spa	PEAK FLOW ¹ (gpd)	PEAK FLOW (gpm)
Atavia	88	4,313	200	(gpd/sf) 0.8	21,050	4.0		~	73,850	51
Total	88	W.			21,050				73,850	51

MASTER PLAN DEMAND CALCULATIONS - SUB AREA 2B & 2D

Node	Residential (DU)	Retail	DEMAND VALUE		TOTAL ADD PEAKING FACTOR (gpd) (Residential)	PEAKING FACTOR (Commercial/Retail)	PEAK FLOW ¹	PEAK FLOW	
		(sf)	Residential (persons/DU)	Retail (gpd/sf)	(gpa)	(Residential)	(Commercial/Retail)	(gpd)	(gpm)
2D	266	23,831	200	0.6	67,499	4.0		227,099	158
2B	266	23,831	200	0.6	67,499	4.0		227,099	158
Total	532	47,662			134,998			454,198	316

Notes

^{1.} Per the approved One Scottsdale (Stacked 40s) Master On-Site Wastewater Plan, projected peak flow was caculated using a variable peaking factor method, in which peak flow was caculated for either residential or commercial uses and average daily flow was calculated for the other, whichever combination generated the greater flow. For this Site, peak flow was calculated for residential uses and average daily flow calculated for commercial uses.



WASTEWATER DEMAND CALCULATIONS

FULL BUILD-OUT CONDITION
DESIGN CRITERIA PER DESIGN STANDARDS
& POLICIES MANUAL (2018)

4.5

Project Atavia - One Scottsdale

Location Scottsdale, AZ

Project Number 215518

Project Engineer Zachary Radovich, PE

References City of Scottsdale Design Standards & Policies Manual (2018)

Arizona Administrative Code, Title 18, Chapter 9

140 gpd/unit

PROPOSED SITE IMPROVEMENTS

Node	Residential (DU)	Fitness Center / Spa / Health club (sf)	DEMAN Residential (persons/DU)	Fitness Center / Spa / Health club (gpd/sf)	(gpd)	PEAKING FACTO (Residential)	R	PEAKING FACTOR (Fitness Center / Spa / Health club)	PEAK FLOW (gpd)	PEAK FLOW (gpm)
Atavia	88	4,313	/ 250	0.8	25,450	4.0	ላ	3.5	100,076	69
Total	88				25,450	>	ィ		100,076	69

Update demand calculations in using DSPM Figure 7-1.2 values.



MODELED LAND USE CALCULATIONS

CIVIL ENGINEERS * HYDROLOGISTS * LAND SURVEYORS

Project:

Master On-Site Wastewater Plan for One Scottsdale (Stacked 40s)

Proj. Number:

154391

Location Date Scottsdale, Arizona December 4, 2015 Proj. Engineer:

JGR

PLANNING UNIT II

PHASE 1						
		i				
PLANNING UNIT SUB-AREA	RESIDENTIAL (DUs)	OFFICE AREA (SF)	RETAIL AREA (SF)	RESTAURANT AREA (SF)	AREA (SF)	HOTEL (ROOMS)
17 (Henkel Building)		325,156			325,156	
SUBTOTAL	***	325,156	***	***	325,156	

PHASE 2									
		V24 0.3655	COMMERCIAL						
PLANNING UNIT SUB-AREA	RESIDENTIAL (DUs)	OFFICE AREA (SF)	RETAIL AREA (SF)	RESTAURANT AREA	TOTAL COMMERCIAL (SF)	HOTEL (ROOMS)			
2a	133		62,500	26,000	88,500	***			
2b	266	444	23,831	-	23,831	***			
2c	133	***	62,500	26,000	88,500	***			
2d	266	_	23,831		23,831	_			
SUBTOTAL	798		172,662	52,000	224,662	***			

PHASE 3								
			COMMERCIAL					
PLANNING UNIT	RESIDENTIAL	OFFICE AREA	RETAIL AREA	RESTAURANT AREA	TOTAL COMMERCIAL	HOTEL		
SUB-AREA	(DUs)	(SF)	(SF)	(SF)	(SF)	(ROOMS)		
3a	J —	260,000	3,000	5,000	268,000	140		
3b	_	140,000	2,000		142,000	***		
3c		260,000	3,000	***	263,000	-		
3d	<u> </u>	140,000	2,000		142,000	***		
SUBTOTAL	***	800,000	10,000	5,000	815,000	140		

1

MODELED LAND USE CALCULATIONS

CIVIL ENGINEERS * HYDROLOGISTS * LAND SURVEYORS

Project:

Master On-Site Wastewater Plan for One

Scottsdale (Stacked 40s)

Proj. Number:

154391

Location Date:

Scottsdale, Arizona

December 4, 2015

Proj. Engineer:

JGR

PHASE 4							
COMMERCIAL							
PLANNING UNIT	RESIDENTIAL	OFFICE AREA	RETAIL AREA	RESTAURANT AREA	TOTAL COMMERCIAL	HOTEL	
SUB-AREA	(DUs)	(SF)	(SF)	(SF)	(SF)	(ROOMS)	
4a	279	_		•••		260	
4b	267			8,000	8,000	***	
4c	372	***	***	_			
SUBTOTAL	918	***	***	8,000	8,000	260	

PHASE 5							
		2000 N 2000	COMMERCIAL				
PLANNING UNIT SUB-AREA	RESIDENTIAL (DUs)	OFFICE AREA (SF)	RETAIL AREA (SF)	RESTAURANT AREA (SF)	TOTAL COMMERCIAL (SF)	HOTEL (ROOMS)	
5a	_	127,834	21,074	2,500	151,408	***	
5b		204,533	15,332	2,500	222,365	-	
5c		204,533	15,332		219,865	***	
SUBTOTAL	_	536,900	51,738	5,000	593,638	***	

PHASE 6			•			
	80 7.1	200				
PLANNING UNIT	RESIDENTIAL	OFFICE AREA	RETAIL AREA	RESTAURANT AREA	TOTAL COMMERCIAL	HOTEL
SUB-AREA	(DUs)	(SF)	(SF)	(SF)	(SF)	(ROOMS)
6	_	197,089	***		197,089	
SUBTOTAL	_	197,089	100		197,089	***

PLANNING UNIT II TOTAL

1,716

1,859,145

234,400

70,000

2,163,545

400

WASTEWATER COLLECTION SYSTEM DESIGN CRITERIA

Project: Master On-Site Wastewater Plan for One Scottsdale (Stacked 40s)

Proj. Number: 154391

Proj. Engineer: JGR

Date:

December 4, 2015

ONSITE WASTEWATER DESIGN CRITERIA

Location: Scottsdale, Arizona

DESCRIPTION	VALUE	UNITS	Note
GENERAL			
Minimum Mean Full-Flow Velocity:	2.50	ft/s	1
Max. Peak Flow Depth-to-Diameter Ratio (8-12" Dia, Sewers):	0.65		1,3
Max. Peak Flow Depth-to-Diameter Ratio (>12" Dia. Sewers):	0.70		1
Max. Utilized Capacity:	90	%	-
Minimum Pipe Diameter:	8	in	1
RESIDENTIAL			-
Average Day Wastewater Flow per Person, (8-12 Dia. Sewers):	100	gpd/person	2
Average Day Wastewater Flow per Person, (>12"Dia. Sewers):	100	gpd/person	2
Population Density, On-Site:	2.00	persons/DU	2
Population Density, Off-Site Condominiums.	1.70	persons/DU	2
Peaking Factor, Residential:	4.00		1
OFFICE			
Average Day Wastewater Flow, Office:	0.10	gpd/SF	2
Peaking Factor, Office:	3.00	n/a	2
RETAIL			_
Average Day Wastewater Flow, Retail:	0.60	gpd/sf	2
Peaking Factor, Retail:	3.50		2
RESTAURANT		 	-
Average Day Wastewater Flow, Restaurant:	1.20	gpd/sf	
Peaking Factor, Restaurant:	6.00		
HOTEL			
Average Day Wastewater Flow, Hotel:	100	gpd/room	
Peaking Factor, Hotel	4.00	111	1

OFFSITE WASTEWATER DESIGN CRITERIA

DESCRIPTION	VALUE	UNIT\$	Note
MIXED USE DEVELOPMENT			
Average Day Wastewater Flow per Acre	1447	gpd/acre	2
Max. Day Wastewater Flow per Acre	2098	gpd/acre	2
Peaking Factor	4	_	2

Notes: 1 - 2 - 3 -

MODELED WASTEWATER DESIGN FLOWS

Proj Number 153491 Proj Engineer JGR

Master On-Site Westewater Plan for One Scottsdale (Stacked 40s)

City of Scottsdale

December 4, 2015
City of Scottsdale Design Standards and Policies Manual

						-	LAND USE TY	rPE			1																	- 1								
				RESID	ENTIAL		COM	MERCIAL	7	HOTEL																										
					WELLING WTS		ARE	EA (SF)				AVE. DAI	LY FLOW (AI	DF) PER SEGMI	ENT (GPD)			CUMU	LATIVE AVEF	AGE DAY FLOY	W (GPD)					VE. DAY COM	AL & HOTEL FL AMERCIAL FLO IPD)				+ AVE.	DAY RESIDE	ERICIAL FLOW NTIAL & HOTEL 3PD)	s .FLOWS		
UPSTREAM NODE	DOWNSTREAM NODE	LOCATION (PLANNING UNIT)	PLANMING UNIT SUB- AREAS CONTRIBUTING TO FLOW	OFF-SITE	ON-SITE	OFFICE	RETAIL	RESTAURANT	r TOTAL	NO. OF ROOMS	RESIO.	OFFICE	RETAIL	RESTAURANT	HOTEL	TOTAL (GPD)	RESID.	OFFICE	RETAIL	RESTAURANT	HOTEL	TOTAL ADF (GPD)	INFILT & INFLOW (GPD)	RESID. (PF+4.0)	OFFICE (ADF)	RETAIL (ADF)	RESTAURANT	HOTEL (PF=4.0)	TOTAL MAX DAY FLOW (GPD)	RESID. (ADF)	OFFICE (PF+3.0)	RETAIL (PF=3.5)	RESTAURANT (PF=6.0)	HOTEL (ADF)	TOTAL MAX DAY FLOW (GPD)	PEAK DESIGN FLOW' (GPD)
A5 A4 A3 A2	AA A3 A2 A1 (OUTFALL # 1)		4b.4c. 6 5e 1 — TOTAL FOR CUIFALL 91		422 411	197,089 204,533 325,158 726,776	15,332 18,332	6,000 6,000	205.089 219.885 325,156 — 780,110	-	84,400	19,709 20 453 32,516 72,678		9,600	- - - -		84,400 84,400 84,400 84,400 84,400	72,578	9 199 9 199 9 199 9 199 9 199	9,600 9,600 9,600 9,600	-	113,709 143,361 175,877 175,877	-	337,800 337,800 337,800 337,800	19.700 40,162 72,678 72,678 72,678	0_109 0_109 0_100 0_100	9.600 9.600 9.600 9.600		300,909 390,501 429,077 429,077 429,077	84 400 84 400 84 400 84 400 84,400	59,127 120,487 218,033 218,033 218,033	32 197 32 197 32 197 32 197	57,600 57,600 57,600 57,600 57,600	-		366,909 8 396,551 8 429,077 8 429,077 8
	B4 B3 B2 B1 (OUTFALL #2)		3d 4a 3b 4b 5a, 5b 2b,2d TOTAL FOR OUTFALL 42		279 217 — — 532 1,028	280,000 332,367 512,367	-	5,000 - 5,000	264 000 373,773 47,862 705,435	260	55 800 43 400 106 400 205,800	28.000 33,237 — 61,237	-	6,000	444	112,200 43,400 61,080 134,997 351,678	99,200 99,200	28,000	24.244	0,000 6,000 8,000		312:200 43:400 173:280 308:278 351,678			28,000 28,000 61,237 61,237 61,237	2,400 2,400 24,244 52,641 52,841	6,000 6,000 6,000	104.000	357,600 531,200 592,260 1 048,478 1,048,478			8 400 8 400 64 653 184 943 184,943		26,000	217.600 429.783	357,600 10 531,200 10 592,280 12 1,046,478 12 1,046,478
	D1 (OUTFALL #3)		TOTAL FOR OUTFALL IS		266		125,000	52,000	177,000 177,000 531,000	140	\$3,200 \$3,200		75,000 75,000 3,600	62,400	100	190,600 190,600 75,600 75,600	\$3,200		75,000 78,000 3,600	62,400	14 000	190,600 190,600 75,600) 	212,800 212,800	_	75,000	62,400 62,400 6,000 6,000	-	350,200 350,200 117,600	53 200 53,200		262,500	374,400 374,400 36,000 38,000	14 000 14 000	690,100 690,100 218,600	690,100 10 690,100 218,600 10 218,600
E4 E10 E3 E5 E2	E3 E3 E2 E2 E1 (OUTFALL #5)		Offsite — — — — — — — — — — — — — — — — — — —	1,295 ————————————————————————————————————			-				220,150 24,200 24,200 24,200 286,580	-		-			24,200 24,200 244,350 24,200 268,550 268,550	100	-	775 776 777 777		220,150 244,350 244,350 268,550 268,550 268,550	100 100 100	880 600 90 800 977,400 90 800 1 074 200 1,074,200	= = = = = = = = = = = = = = = = = = = =	-	-			220,150 24,200 244,350 24,200		-	-	-	220,150 24,200 244,350 24,200	880.500 12 96.800 8 977.400 12 90,800 8 1,074.200 12
F14 F12 F17 F11 F10 F19 F5 F4 F6 F10 F7 F6 F7 F8	F12 F11 F11 F10 F10 F8 F8 F8 F10 F8 F8 F8 F8 F8 F8 F8 F8 F8 F8 F8 F8 F8		36 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37	### #### #############################		 159,275		15,000	102,025 177,025 177,025 174,275 174,275		38.600 38.600 24.200 	15,928 15,928 15,928 15,928	10,850	18,000	-	38,600 38,600 24,200 44,578 26,578 15,928 33,928	101,500	15,928 31,855 31,855 31,855 47,783 15,928 63,710 63,710	10,650 21,300 21,300 21,300 21,300 21,300 21,300 21,300	18,000 18,000 18,000 18,000 18,000 18,000 30,000 36,000 36,000		44.578 71.155 115.733 131.660 33.928 267,188	999	155,200 155,200 154,400 309,600 309,600 404,400 	15.928 31.655 37.656 47.763 15.928 63.710 63.710	10,650 21,300 21,300 21,300 21,300 21,300 21,300 21,300	18,000 18,000 18,000 18,000 18,000 38,000 38,000 38,000		155,200 155,200 154,400 309,600 309,600 66,800 408,400 44,578 71,155 87,083 33,928 527,410 527,410	77,400 77,400 24,200 101,600	47,783 95,565 95,565 143,348 47,783 191,130 191,130	37,275 74 550 74 550 74 550 74 550 74 550 74 550	108,000 108,000 108,000 108,000 108,000 108,000 108,000 216,000 216,000 216,000 216,000		77.400 77.400 24.200 101.600 193.058 278.115 278.115 325.898 155.783 583.260	155,200 8 155,200 8 154,200 8 300,800 8 300,800 8 300,800 8 405,400 10 193,056 8 279,115 8 279,115 8 325,809 8 553,280 10 563,280 10
		FL	JLL BUILDOUT TOTAL	1,295	2,466	2,496,245	269,900	100,000	2,866,145	400	713,350	249,625	161,940	120,000	26,000	1,284,915	713,350	249,625	161,940	120,000	40,000	1,284,915	1 (2,853,400	249,625	161,940	120,000	160,000	3,544,965	713,350	748,873	566,790	720,000	40,000	2,789,014	4,041,735

INFILTRATION & INFLOW
VALUE
UNITS

ACRES PU II

55
 ACRES PU III

250 GPDIACRA

13.750 GPD INFILTRATION / INFLOW PU II

11 PAPES IN MASTER PLAN MODEL PU II

18 PIPES IN MASTER PLAN MODEL PU III

18 PIPES IN MASTER PLAN MODEL PU III

18 PIPES IN MASTER PLAN MODEL PU III

784 GPD PER PIPE INFILTRATION & INFLOW PU III

784 GPD PER PIPE INFILTRATION & INFLOW PU III

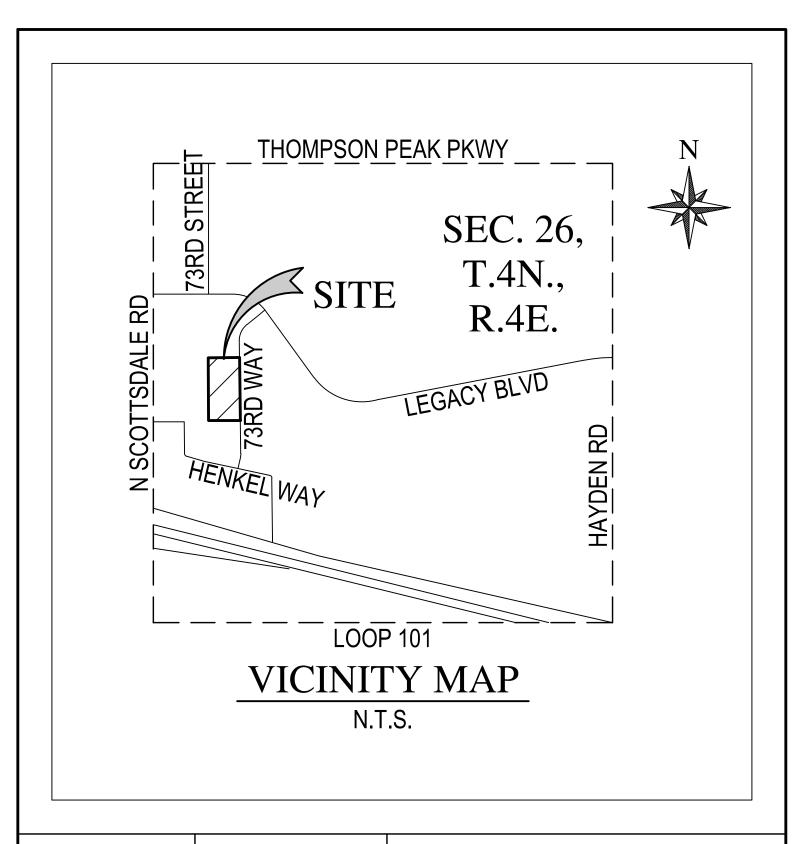
NOTES

1 Unitizes the greater of peak flows from Residential/Hotel or Commercial

2 Assumes 50% of flow contintuites to node

AND Movences For OFFSIte (SFALeLand) Flows

EXHIBIT 1 – VICINITY MAP



FOR CONSTRUCTION OR RECORDING



ONE SCOTTSDALE - ATAVIA

VICINITY MAP

DATE	02/23/2024	SCALE	N/A	SHEET	1 OF 1
JOB NO.	225518	DESIGN	JGR	CHECK	ZNR
		DRAWN	AJS	RFI#	

