PRELIMINARY Basis of Design Report

☐ **ACCEPTED**

☑ **ACCEPTED AS NOTED**

☐ **REVISE AND RESUBMIT**

CITY OF SCOTTSDALE

SCOTTSDALE WATER

9379 E San Salvador Dr.
Scottsdale, AZ 85258

Disclaimer: If accepted; the preliminary approval is granted under the condition that a final basis of design report will also be submitted for city review and approval (typically during the DR or PP case). The final report shall incorporate further water or sewer design and analysis requirements as defined in the city design standards and policy manual and address those items noted in the preliminary review comments (both separate and included herein). The final report shall be submitted and approved prior to the plan review submission.
For questions or clarifications contact the Water Resources Planning and Engineering Department at 480-312-5685.

BY apritchard **DATE** 1/29/2024

WOOD PATEL

WATER DISTRIBUTION SYSTEM CONCEPT BASIS OF DESIGN REPORT FOR FAIRMONT SCOTTSDALE PRINCESS CONFERENCE CENTER & EVENT LAWN

November 22, 2023
WP# 215319.30

Describe Meter size and type of backflow preventer. DSPM 6-1.202

Prepared by
Robert G. Saunders, EIT

EXPIRES 06-30-25

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1.0 INTRODUCTION

The Fairmont Scottsdale Princess Conference Center & Event Lawn (Site) is a proposed commercial/retail building with a kitchen and an open event space. This Site on approximately 10.95 acres of two (2) parcels with an approximate area of 44.4 acres of the Fairmont Scottsdale Princess in the City of Scottsdale (APN#215-08-693, 215-08-695). The project will include hardscape, landscape, parking, and utility improvements to support the development. The Site is located approximately 1,300-feet to the east of Scottsdale Road and 50-feet north of East Hacienda Way within Section 35, Township 4 North, Range 4 East of the Gila and Salt River Base and Meridian, Maricopa County, Arizona. Refer to Exhibit 1 – *Vicinity Map* for the project location. The existing property, currently zoned C-2, is primarily developed with buildings, parking lots, pools, sidewalks, and a variety of landscaping (desert and grass).

The design criteria used to estimate water demands and evaluate system hydraulics are based on Wood, Patel & Associates, Inc.'s (WOODPATEL's) understanding of the requirements listed in the *City of Scottsdale Design Standards and Policies Manual, 2018*.

The following is a summary of the primary design criteria utilized:

Average Day Water Demand, Commercial/Retail: ..... 0.8 gpd / sf
Average Day Water Demand, Restaurant: ..... 1.3 gpd / sf
Maximum Day Flow Factor: .....2 x ADD
Peak Hour Factor: .....3.5 x ADD
Peak Hour Factor, Restaurant: .....6.0 x ADD
Abbreviations: gpd = gallons per day; sf = square feet; ADD = average day demand
*Includes both inside and outside use, per Figure 6-1.2, City of Scottsdale *Design Standards and Policies Manual*

2.0 EXISTING WATER INFRASTRUCTURE

Existing water infrastructure adjacent to the Site includes an existing 12-inch public water line within Cottage Terrace and an existing 8-inch public water line adjacent to East Hacienda Way which turns north and wraps around the existing Palomino Ballroom to connect to the existing 12-inch water main within Princess Drive. Refer to Exhibit 2 – *Water Pipe Layout* for the layout of existing water infrastructure.

3.0 PROPOSED WATER INFRASTRUCTURE

3.1 Onsite Water Infrastructure

The proposed infrastructure to serve this Site will require the removal of a portion of the existing 8-inch water main on the north side of the existing Palomino Ballroom and re-route the existing 8-inch water line around the north side of the proposed building and make a new connection to the existing 12-inch water main within Cottage Terrace. In addition, the proposed improvements include relocating two (2) existing fire hydrants, one (1) on the north side of the existing Palomino Ballroom and one (1) on the southwest corner of the existing Palomino Ballroom, four (4) proposed fire hydrants, a 6-inch fire service,

and a 4-inch domestic meter, vault, and backflow preventer. Refer to Exhibit 2 – *Water Pipe Layout* for the layout of proposed water infrastructure.

3.2 Water Demand Calculations

Demands for the Site include only the square footage of the Conference Center as the Event Lawn will not be used simultaneously with the equivalent space in the Conference Center or existing Palomino Ballroom. If a weather-related incident forces guests using the Event Lawn to relocate indoors, the equivalent space required for those guests will already be available for them in the Conference Center or existing Palomino Ballroom and the Event Lawn will no longer be in use.

The Average Day, Maximum Day, and Peak Hour demands for the proposed Site have been calculated to be 110.7 gallons per minute (gpm), 221.3 gpm, and 401.7 gpm, respectively. (Refer to Appendix A - *Water Demand Calculations*). The Fire Flow required for this Site was determined to be 1,625 gpm at a minimum 30 psi for a building with 97,576 sf, a fire sprinkler system, and a building type of I-B (Refer to Appendix B – *Fire Hydrant Flow Test Results and Calculations*). Based on this information, there is sufficient supply to meet the demands for the Site. Refer to Exhibit 2 – *Water Pipe Layout* for the layout of proposed water infrastructure.

4.0 CONCLUSIONS

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

1. The design criteria used to estimate potable water demands and evaluate system hydraulics are based on the design criteria listed in the *City of Scottsdale Design Standards and Policies Manual, 2018*.

2. The reroute of the existing water main and services, along with the proposed additions is adequate to serve the domestic and fire flow requirements for the Site.

3. The average day demand of 79,723 gpd or 110.7 gpm are met with the proposed water infrastructure.

4. The max day demand of 159,394 gpd or 221.3 gpm are met with the proposed water infrastructure.

5. The peak hour demands of 289,363 gpd or 401.7 gpm are met with the proposed water infrastructure.

6. The required fire flow of 1,625 gpm is met with the proposed water infrastructure.

5.0 REFERENCES

1. City of Scottsdale Design Standards and Policies Manual, 2018
2. *Master Water Report for Fairmont Scottsdale Princess, Scottsdale, AZ*, by Wood, Patel & Associates, Inc. November 2023.

APPENDIX A – WATER DEMAND CALCULATIONS

WOOD PATEL

TABLE 1
WATER DISTRIBUTION SYSTEM DESIGN CRITERIA

Project	Fairmont Scottsdale Princess - Conference Center & Event Lawn
Location	Scottsdale AZ
Project Number	215319.3
Project Engineer	Andrew J. Sanchez, E.I.T.
References	City of Scottsdale Design and Policies Manual (2018)

RESIDENTIAL WATER DEMANDS			
LAND USE	**AVERAGE DAILY DEMAND (ADD)**		**NOTES**
	VALUE	**UNITS**	
High Density Condominium	185	gpd/DU	Note 1
Resort Hotel	446	gpd/DU	Note 1

NON-RESIDENTIAL WATER DEMANDS			
LAND USE	**AVERAGE DAILY DEMAND (ADD)**		**NOTES**
	VALUE	**UNITS**	
Restaurant	1.3	gpd/sf	Note 1
Commercial/Retail	0.8	gpd/sf	Note 1
Commercial High Rise	0.6	gpd/sf	Note 1
Office	0.6	gpd/sf	Note 1
Institutional	1340	gpd/acre	Note 1
Industrial	1027	gpd/acre	Note 1
Research and Development	1284	gpd/acre	Note 1

HYDRAULIC MODELING CRITERIA				
DESCRIPTION		**VALUE**	**UNITS**	**NOTES**
PEAK FLOW				
	Peak Flow = Peaking Factor (PF) x ADD	3.5 x ADD	gpd	Note 1
	Peak Flow = Peaking Factor(Restaurant) x ADD	6.0 x ADD	gpd	Note 1
	Max Flow = Peaking Factor (PF) x ADD	2.0 x ADD	gpd	Note 1
MODELED FIRE HYDRANT FLOW WITH 50% FIRE SPRINKLER REDUCTION (MINIMUM)				
☐	Residential, 0 - 3,600 sf fire-flow calculation area	1,000	gpm	Note 3
☑	Residential, 3,601 - 4,800 sf fire-flow calculation area	1,750	gpm	Note 4
☐	Residential, 4,801 - 6,200 sf fire-flow calculation area	2,000	gpm	Note 4
☐	Residential, 6,201 - 7,700 sf fire-flow calculation area	2,250	gpm	Note 4
☐	Residential, 7,701 - 9,400 sf fire-flow calculation area	2,500	gpm	Note 4
☐	Residential, 9,401 - 11,300 sf fire-flow calculation area	2,750	gpm	Note 4
☐	Multi-Family Residential	-	gpm	Note 2
☐	Commercial	-	gpm	Note 2
HYDRAULICS				
	Residual Pressure Range, Peak Flow	50-120	psi	Note 1
	Minimum Residual Pressure, Peak Flow + Fire Flow	30	psi	Note 1
	Maximum Velocity, Peak Flow	5	ft/sec	Note 1
	Maximum Velocity, Peak Day + Fire Flow	10	ft/sec	Note 1
	Minimum Pipe Diameter, Looped System	8	in	Note 1
	Hazen-Williams C-value	120	-	Note 1

Notes

1. Per City of Scottsdale Design and Policies Manual (2018)
2. Per 2018 International Fire Code
3. Residential limited to one- and two-family dwellings, assumes Type V-B construction, and has a 1-hour fire duration, with 50% sprinkler reduction
4. Residential limited to one- and two-family dwellings, assumes Type V-B construction, and has a 2-hour fire duration, with 50% sprinkler reduction

WOOD PATEL

WATER DEMAND DESIGN FLOWS

Project Fairmont Scottsdale Princess - Conference Center & Event Lawn
Location Scottsdale AZ
Project Number 215319.3
Project Engineer Andrew J. Sanchez, E.I.T.
References City of Scottsdale Design and Policies Manual (2018)

LAND USE AND DWELLING UNIT BREAKDOWN BY JUNCTION														FIRE FLOW		
HYDRAULIC MODEL NODE	LAND USE	AREA (SF)	DEMAND VALUE	UNITS	AVERAGE DAILY DEMAND			MAX FLOW			PEAK FLOW			FIRE FLOW AREA	FIRE FLOW TYPE	FIRE - FLOW
					(gpm)	(gpd)	Total (gpm)	(gpm)	(gpd)	Total (gpm)	(gpm)	(gpd)	Total (gpm)	(sf)		(gpm)
Conference Center	Commercial/Retail	94,357	0.8	gpd/sf	104.8	75,486	75,486	209.6	150,972	150,972	366.8	264,201	264,201	97,576	I-B	1,625
	Restaurant	3,219	1.3	gpd/sf	5.8	4,185	79,671	11.6	8,370	159,342	34.8	25,110	289,311			
	*Fountain	N/A	N/A	N/A	.1	52		.1	52		.1	52				
Ballroom Total		**97,576**			**110.7**	**79,723**		**221.3**	**159,394**		**401.7**	**289,363**				
Event Lawn	Commercial/Retail	39,400	--	gpd/sf	--	--	--	--	--	--	--	--	--	39,400	N/A	1,500
Event Lawn Total		**39,400**			**--**	**--**		**--**	**--**		**--**	**--**				
Total		**136,976**			**110.7**	**79,723**		**221.3**	**159,394**		**401.7**	**289,363**				

* Additional water Demands calculated by City of Scottsdale Development Water Demand Exhibit.

APPENDIX B – FIRE HYDRANT FLOW TEST AND CALCULATIONS

Arizona Flow Testing LLC

HYDRANT FLOW TEST REPORT

Project Name:	Fairmont Scottsdale Princess
Project Address:	7575 East Princess Blvd., Scottsdale, Arizona 85255
Client Project No.:	215319
Arizona Flow Testing Project No.:	22541
Flow Test Permit No.:	C69698
Date and time flow test conducted:	August 4, 2022 at 7:00 AM
Data is current and reliable until:	February 4, 2023
Conducted by:	Floyd Vaughan – Arizona Flow Testing, LLC (480-250-8154)
Witnessed by:	Sonny Schreiner –City of Scottsdale-Inspector (602-819-7718)

Raw Test Data

Static Pressure: **88.0 PSI**
(Measured in pounds per square inch)

Residual Pressure: **72.0 PSI**
(Measured in pounds per square inch)

Pitot Pressure: **40.0 PSI**
(Measured in pounds per square inch)

Diffuser Orifice Diameter: One 4-inch Pollard Diffuser
(Measured in inches)

Coefficient of Diffuser: 0.9

Flowing GPM: **2,718 GPM**
(Measured in gallons per minute)

GPM @ 20 PSI: **5,936 GPM**

Data with 16PSI Safety Factor

Static Pressure: **72.0 PSI**
(Measured in pounds per square inch)

Residual Pressure: **56.0 PSI**
(Measured in pounds per square inch)

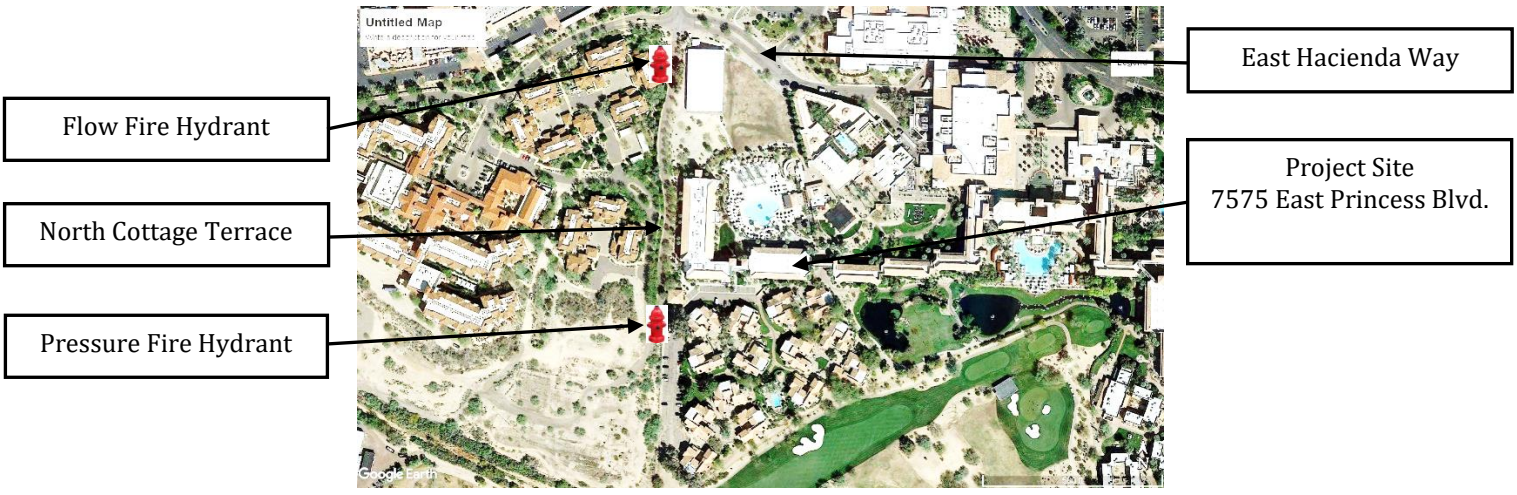
Distance between hydrants: Approx. 810 Feet

Main size: Not Provided

Flowing GPM: **2,718 GPM**

GPM @ 20 PSI**:** **5,136 GPM**

Flow Test Location **North**



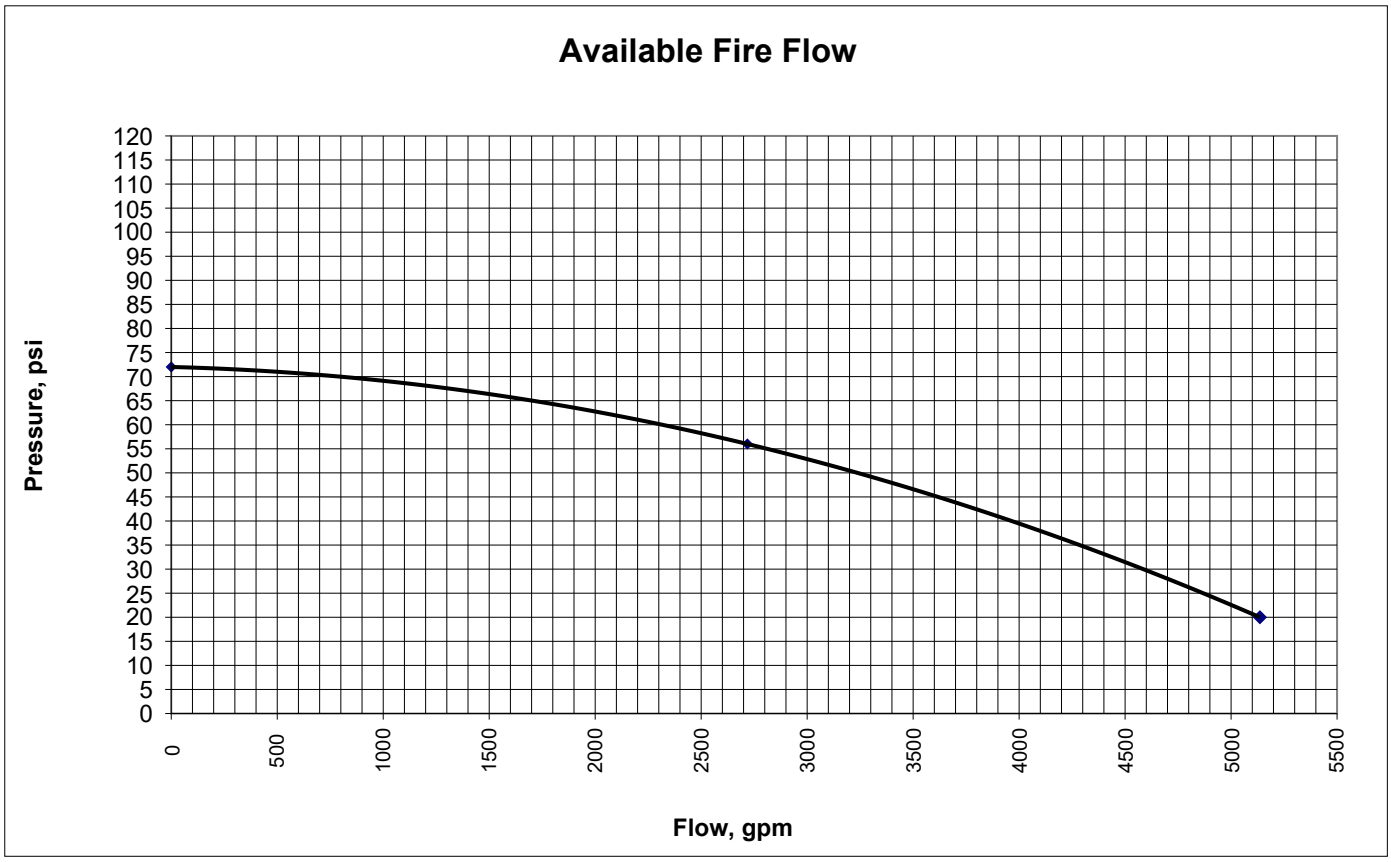
WOOD PATEL

EXISTING WATER SYSTEM PRESSURES

Project	Fairmont Scottsdale Princess - Conference Center & Event Lawn
Location	Scottsdale AZ
Project Number	215319.3
Project Engineer	Andrew J. Sanchez, E.I.T.

Flow Test Location
Date of Flow Test

Pressure Hydrant		**Flow Hydrant**	
Static Pressure (psi)	72.0		
Residual Pressure (psi)	56.0	Flow (gpm)	2718
Calculated Flow at 20 psi	5136 gpm	Calculated Flow at	20 psi



Discharge (gpm)	Pressure (psi)	Head (ft)
0	72	166.2
2718	56	129.3
5136	20	46.2

Notes
1. Values provided from a flow test by Arizona Flow Testing LLC

38-45

37-44

37-46

36-45

22-MAY-22

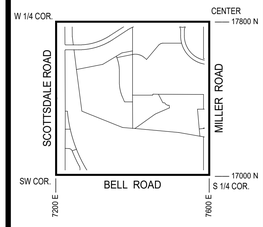
GENERAL NOTES:

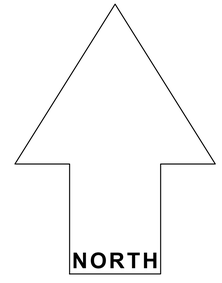
- THIS IS A COMPUTER GENERATED DRAWING. FOR ANY REVISIONS PLEASE CONTACT THE CITY OF SCOTTSDALE GIS DEPARTMENT AT (480) 312-7792.
- THE SECTION LINE BEARING AND DISTANCES ARE BASED ON THE CITY OF SCOTTSDALE GPS SURVEY OF SEPTEMBER, 1991. BEARINGS ARE NAD 83 GRID AND DISTANCES ARE FLATTENED TO GROUND. WHERE NO CORNER WAS FOUND THE DIMENSIONS ARE GIVEN TO CALCULATED SECTION CORNERS AND ARE NOTED AS 'CALCULATED' ON THE MAP.

LEGEND:

- Water Valve
- Non-potable Water Valve
- Fire Hydrant
- Water Blowoff
- Water Main Reducer
- Water Sample Station
- Water Air Release Valve
- Non-potable Water Air Release Valve
- Water Pressure Reducing Valve
- Water Vault
- Water Manhole
- Non-Potable Water Manhole
- Water Pump
- Water Main
- Non-Potable Water Main
- Fire Line
- Water Service
- Non-Scottsdale Water Main
- Sewer Manhole
- Sewer Cleanout
- Sewer Lift Station
- Sewer Treatment Plant
- Sewer Main - Gravity
- Sewer Main - Force
- Non-Scottsdale Sewer Main
- Sewer Service

VICINITY MAP





SCALE: 1" = 100'

0 50 100 200

The map scale of 1" = 100' is based on a full size print of 30" x 36"

WATER & SEWER

QUARTER SECTION MAP

37-45

SW 1/4 SEC. 35 T4N R4E

CITY OF SCOTTSDALE

SCOTTSDALE GEOGRAPHIC INFORMATION SYSTEMS

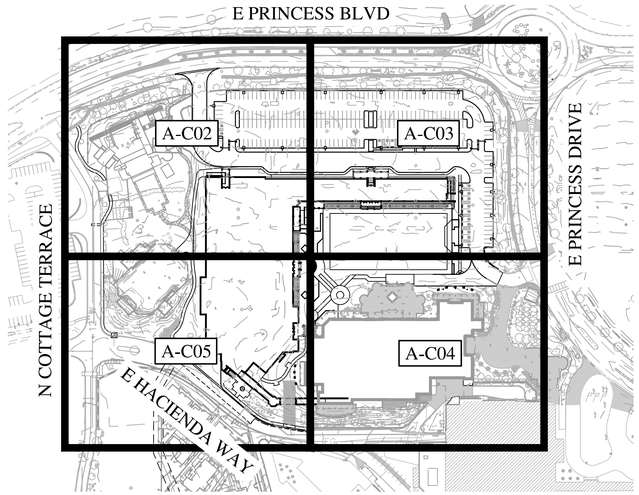
3629 North Drinkwater Boulevard
Scottsdale, Arizona 85251

APPENDIX C – FAIRMONT SCOTTSDALE PRINCESS CONFERENCE CENTER & EVENT LAWN IMPROVEMENT PLANS BY WOOD, PATEL & ASSOCIATES, INC., DATED NOVEMBER 22, 2023

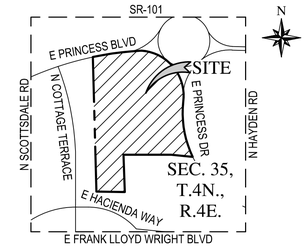
FAIRMONT SCOTTSDALE PRINCESS CONFERENCE CENTER

CONCEPT GRADING, DRAINAGE, WATER & SEWER
SCOTTSDALE, ARIZONA

A PORTION OF SECTION 35, TOWNSHIP 4 NORTH, RANGE 4 EAST
OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



KEY MAP
N.T.S.



VICINITY MAP
N.T.S.

ENGINEER'S NOTES

1. MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION INCLUDING LATEST REVISION AND CURRENT SUPPLEMENTALS THEREOF PER THE LOCAL TOWN OR CITY) ARE INCORPORATED INTO THIS PLAN IN THEIR ENTIRETY.
2. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE CONTRACT.
4. THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
6. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY AND MIGHT NOT REFLECT ACTUAL QUANTITIES AND SITE CONDITIONS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
7. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 48 HOURS IN ADVANCE FOR BLUE STAKE (1-800-STAKE-IT) PRIOR TO ANY EXCAVATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
9. ALL PAVING, GRADING, EXCAVATION, TRENCHING, PIPE BEDDING, CUT FILL AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE SOILS (GEOTECHNICAL) REPORT FOR THIS PROJECT IN ADDITION TO THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL BE AWARE THAT CERTAIN UTILITIES REQUIRE PROPER ATTENTION AND CAREFUL PLANNING DURING SITE CONSTRUCTION. PLEASE NOTE THAT UTILITIES ON THESE PLANS MAY NOT EXHIBIT THE FULL PROTECTIVE COVER REQUIRED DURING THE SUBGRADE PREPARATION PHASE OF THE CONSTRUCTION. IN SUCH INSTANCES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL PROTECTION (SUCH AS RAMPING) OR INCREASED PIPE STRENGTH TO PROVIDE THE NECESSARY PROTECTION REQUIRED TO PREVENT DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL HOLD THE ENGINEER HARMLESS IN ALL CASES FOR DAMAGES TO UTILITIES WHERE INADEQUATE PROTECTIVE MEASURES OCCUR.
10. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AGENT.
11. CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH ARCHITECT'S FINAL SITE PLAN AND FINAL BUILDING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES TO OWNER'S AGENT.
12. COORDINATION BETWEEN ALL PARTIES IS ESSENTIAL PART OF CONTRACT.
13. CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS, AND TO WORK WITH WEATHER CONDITIONS AS THE PROJECT SITE MAY BE LOCATED IN A FLOOD PRONE AREA AND SUBJECT TO FLOODING AND ITS HAZARDS.
14. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER, OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
15. CONTRACTOR IS RESPONSIBLE TO COORDINATE UTILITY CROSSINGS AT CULVERT CROSSINGS BEFORE STARTING WORK ON CULVERT. COORDINATE WITH OWNER REPRESENTATIVE. VERIFY UTILITY LINES AND/OR CONDUITS ARE IN PLACE BEFORE STARTING CULVERT WORK.
16. CONSTRUCT RETENTION BASIN AS SHOWN. CONTRACTOR TO SCARIFY BOTTOM OF BASIN TWO FEET DEEP AND NOT ALLOW COMPACTION OVER 80%.
17. THIS PROJECT REQUIRES A REGULAR ONGOING MAINTENANCE PROGRAM FOR THE DESIGNED DRAINAGE SYSTEM(S) TO PRESERVE THE DESIGN INTEGRITY AND THE ABILITY TO PERFORM ITS OPERATIONAL INTENT. FAILURE TO PROVIDE MAINTENANCE WILL JEOPARDIZE THE DRAINAGE SYSTEM(S)' PERFORMANCE AND MAY LEAD TO IT'S INABILITY TO PERFORM PROPERLY AND/OR CAUSE DAMAGE ELSEWHERE IN THE PROJECT.
18. SEWER LINES DESIGNED IN PROFILE AND PUBLIC WATER LINES ARE REQUIRED TO BE ASBUILT AND THE INSTALLATION AND TESTING WITNESSED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODES R18-9-E301 "4.01 GENERAL PERMIT: SEWAGE COLLECTIONS SYSTEMS" AND R18-5-507 AND 508 "APPROVAL OF CONSTRUCTION" AND "RECORD DRAWINGS", RESPECTIVELY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY OWNER 72 HOURS IN ADVANCE WHEN THOSE SYSTEMS ARE READY TO BE WITNESSED.
19. THE WORK PRODUCT PRESENTED IS BELIEVED TO BE COMPLIANT WITH THE INTENT OF THE CURRENT AMERICANS DISABILITIES ACT (ADA) REQUIREMENTS AS INTERPRETED BY THE REVIEWING AGENCY(S). IF CONSTRUCTION OF THE PROJECT IS DELAYED, THIS WORK PRODUCT SHOULD BE UPDATED TO ACCOUNT FOR ANY RELEVANT ADA UPDATES BEFORE CONSTRUCTION BEGINS.
20. LOWEST FLOOR (LF) REFERS TO EITHER FLOOR/SLAB ELEVATION OR TOP OF BASEMENT SLAB. LF ELEVATIONS ON THE GRADING AND DRAINAGE PLANS FOR RESIDENTIAL UNITS REFLECT SLAB ON GRADE CONDITIONS AND CANNOT BE LOWERED WITHOUT AGENCY APPROVAL IN LOCATIONS WHERE 'SPECIAL FLOOD HAZARD AREAS' EXIST. IN NON-FLOOD HAZARD LOCATIONS, TO ENSURE THAT ADEQUATE RESIDENTIAL LOT DRAINAGE CAN BE ACHIEVED, A PROFESSIONAL ENGINEER SHOULD BE CONSULTED IF THE LF FOR THE SLAB IS PROPOSED TO BE LOWERED, OR IF A BASEMENT IS TO BE CONSTRUCTED.

PARCEL DESCRIPTION

PARCEL NO. 1:
(HOTEL PARCEL)
LOT 3 AND A PORTION OF LOT 2, OF FAIRMONT SCOTTSDALE PRINCESS, ACCORDING TO BOOK 1104 OF MAPS, PAGE 3, RECORDS OF MARICOPA COUNTY, ARIZONA, TOGETHER WITH A PART OF THE SOUTHWEST QUARTER OF SECTION 35, TOWNSHIP 4 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, ALL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT THE SOUTH ONE-QUARTER CORNER OF SECTION 35;
THENCE NORTH 00 DEGREES 08 MINUTES 41 SECONDS EAST ALONG THE NORTH-SOUTH MIDSECTION LINE OF SECTION 35, 1206.58 FEET TO THE POINT OF BEGINNING;
THENCE NORTH 89 DEGREES 51 MINUTES 19 SECONDS WEST, 111.62 FEET;
THENCE NORTH 05 DEGREES 04 MINUTES 10 SECONDS WEST, 34.51 FEET TO THE BEGINNING OF A CURVE CONCAVE TO THE EAST HAVING A RADIUS OF 75.00 FEET;
THENCE NORTHERLY ALONG THE CURVE THROUGH A CENTRAL ANGLE OF 60 DEGREES 29 MINUTES 58 SECONDS, 79.19 FEET TO A POINT OF REVERSE CURVATURE WITH A CURVE CONCAVE SOUTHWEST HAVING A RADIUS OF 75.00 FEET;
THENCE NORTHEASTERLY, NORTHERLY AND SOUTHWESTERLY ALONG THE CURVE THROUGH A CENTRAL ANGLE OF 168 DEGREES 47 MINUTES 48 SECONDS, 220.95 FEET;
THENCE SOUTH 66 DEGREES 38 MINUTES 00 SECONDS WEST, 521.45 FEET;
THENCE NORTH 07 DEGREES 07 MINUTES 02 SECONDS WEST, 47.49 FEET;
THENCE NORTH 88 DEGREES 18 MINUTES 25 SECONDS WEST, 29.86 FEET;
THENCE NORTH 58 DEGREES 07 MINUTES 53 SECONDS WEST, 43.04 FEET;
THENCE NORTH 26 DEGREES 47 MINUTES 27 SECONDS WEST, 26.35 FEET;
THENCE NORTH 83 DEGREES 46 MINUTES 19 SECONDS WEST, 39.13 FEET;
THENCE NORTH 27 DEGREES 44 MINUTES 13 SECONDS WEST, 177.75 FEET;
THENCE NORTH 89 DEGREES 49 MINUTES 06 SECONDS WEST, 103.52 FEET;
THENCE SOUTH 00 DEGREES 01 MINUTES 45 SECONDS WEST, 18.00 FEET;
THENCE NORTH 89 DEGREES 49 MINUTES 06 SECONDS WEST, 377.78 FEET;
THENCE NORTH 00 DEGREES 01 MINUTE 45 SECONDS EAST, 756.50 FEET;
THENCE NORTH 78 DEGREES 51 MINUTES 20 SECONDS EAST, 4.33 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTH HAVING A RADIUS OF 250.00 FEET;
THENCE EASTERLY ALONG THE CURVE THROUGH A CENTRAL ANGLE OF 51 DEGREES 43 MINUTES 26 SECONDS, 225.69 FEET;
THENCE SOUTH 49 DEGREES 25 MINUTES 14 SECONDS EAST, 59.77 FEET;
THENCE NORTH 40 DEGREES 34 MINUTES 36 SECONDS EAST, 352.13 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEAST HAVING A RADIUS OF 100.00 FEET;
THENCE NORTHEASTERLY ALONG THE CURVE THROUGH A CENTRAL ANGLE OF 49 DEGREES 35 MINUTES 38 SECONDS, 86.56 FEET;
THENCE SOUTH 89 DEGREES 49 MINUTES 46 SECONDS EAST, 385.35 FEET TO THE BEGINNING OF A NON-TANGENT CURVE CONCAVE EAST HAVING A RADIUS OF 500.00 FEET, AND A RADIAL BEARING TO THE BEGINNING OF SOUTH 73 DEGREES 52 MINUTES 17 SECONDS WEST;
THENCE NORTHERLY ALONG THE CURVE THROUGH A CENTRAL ANGLE OF 16 DEGREES 17 MINUTES 57 SECONDS, 142.24 FEET;
THENCE SOUTH 89 DEGREES 49 MINUTES 46 SECONDS EAST, 55.5 FEET TO THE BEGINNING OF A NON-TANGENT CURVE CONCAVE NORTHEAST HAVING A RADIUS OF 444.50 FEET AND A RADIAL BEARING TO THE BEGINNING OF NORTH 89 DEGREES 46 MINUTES 46 SECONDS WEST;
THENCE SOUTHEASTERLY ALONG THE CURVE THROUGH A CENTRAL ANGLE OF 75 DEGREES 09 MINUTES 12 SECONDS, 583.04 FEET;
THENCE SOUTH 74 DEGREES 58 MINUTES 57 SECONDS EAST, 6.41 FEET TO THE NORTH-SOUTH MIDSECTION LINE OF SECTION 35;
THENCE SOUTH 00 DEGREES 08 MINUTES 41 SECONDS WEST, ALONG THE MIDSECTION LINE, 57.42 FEET;
THENCE SOUTH 74 DEGREES 58 MINUTES 57 SECONDS EAST, 337.32 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHWEST HAVING A RADIUS OF 300.00 FEET;
THENCE SOUTHEASTERLY ALONG THE CURVE THROUGH A CENTRAL ANGLE OF 35 DEGREES 25 MINUTES 14 SECONDS, 185.46 FEET;
THENCE SOUTH 39 DEGREES 33 MINUTES 43 SECONDS EAST, 125.23 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHEAST HAVING A RADIUS OF 1000.00 FEET;
THENCE SOUTHEASTERLY ALONG THE CURVE THROUGH A CENTRAL ANGLE OF 11 DEGREES 27 MINUTES 33 SECONDS, 200.00 FEET;
THENCE SOUTH 38 DEGREES 58 MINUTES 44 SECONDS WEST, 55.50 FEET;
THENCE SOUTH 16 DEGREES 17 MINUTES 23 SECONDS WEST, 211.79 FEET;
THENCE NORTH 89 DEGREES 51 MINUTES 19 SECONDS WEST, 270.00 FEET;
THENCE SOUTH 00 DEGREES 08 MINUTES 41 SECONDS WEST, 208.40 FEET;
THENCE NORTH 89 DEGREES 51 MINUTES 19 SECONDS WEST, 148.26 FEET;
THENCE SOUTH 00 DEGREES 08 MINUTES 41 SECONDS WEST, 14.66 FEET;
THENCE NORTH 89 DEGREES 51 MINUTES 19 SECONDS WEST, 67.83 FEET;
THENCE NORTH 00 DEGREES 08 MINUTES 41 SECONDS EAST, 10.06 FEET;
THENCE NORTH 89 DEGREES 51 MINUTES 19 SECONDS WEST, 122.29 FEET TO THE POINT OF BEGINNING; EXCEPT ONE-HALF OF ALL OIL AND MINERAL RIGHTS AS RESERVED IN DOCKET 124, PAGE 39, RECORDS OF MARICOPA COUNTY, ARIZONA; AND
EXCEPT ALL OIL, GAS, OTHER HYDROCARBON SUBSTANCES, HELIUM OR OTHER SUBSTANCES OF A GASEOUS NATURE, COAL, METALS, MINERALS, FOSSILS, FERTILIZER OF EVERY NAME AND DESCRIPTION; AND
EXCEPT ALL URANIUM, THORIUM OR ANY OTHER MATERIAL WHICH IS OR MAY BE DETERMINED TO BE PECULIARLY ESSENTIAL TO THE PRODUCTION OF FISSIONABLE MATERIALS WHETHER OR NOT OF COMMERCIAL VALUE, AS SET FORTH IN SECTION 37-231, ARIZONA REVISED STATUTES.

PARCEL NO. 7:
A NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS AND UTILITIES BY OR PURSUANT TO THAT CERTAIN "RECIPROCAL EASEMENT AGREEMENT, CONSTRUCTION AND MAINTENANCE AGREEMENT, AND COVENANTS, CONDITIONS AND RESTRICTIONS" DATED APRIL 19, 2006 AND RECORDED APRIL 19, 2006 IN RECORDING NO. 20060523599, RECORDS OF MARICOPA COUNTY, ARIZONA.

PARCEL NO. 9:
A NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS BY OR PURSUANT TO THAT CERTAIN "MASTER DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS FOR SCOTTSDALE PRINCESS/EAGLE" DATED AUGUST 19, 1986, AND RECORDED AUGUST 20, 1986 IN RECORDING NO. 86-444862, RECORDS OF MARICOPA COUNTY, ARIZONA.

BENCHMARK

CITY OF SCOTTSDALE BRASS CAP FLUSH 450'± NORTH OF PRINCESS DRIVE ON SCOTTSDALE ROAD, BEING THE WEST QUARTER CORNER OF SECTION 35, TOWNSHIP 4 NORTH, RANGE 4 EAST.
CITY OF SCOTTSDALE DATUM, NAVD88 DATUM
ELEVATION=1553.22'.

I HEREBY CERTIFY THAT ALL ELEVATIONS REPRESENTED ON THIS PLAN ARE BASED ON NAVD 1988, MCDOT, AND MEET THE FEMA BENCHMARK MAINTENANCE (BMM) CRITERIA.

ENGINEER'S CERTIFICATION

ENGINEER'S CERTIFICATION: THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ON THIS PLAN ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A ONE-HUNDRED YEAR STORM, AND ARE IN ACCORDANCE WITH CITY OF SCOTTSDALE REVISED CODE, CHAPTER 37-FLOODPLAIN AND STORMWATER REGULATIONS.

ENGINEER SIGNATURE

11/22/2023
DATE

FEMA FIRM NOTE (ZONE AO)

ACCORDING TO FEMA FLOOD INSURANCE RATE MAPPING, THE SUBJECT PROPERTY IS LOCATED IN 'SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD' "ZONE AO". ZONE AO IS DESCRIBED AS: "FLOOD DEPTHS OF 1 TO 3 FEET (USUALLY SHEET FLOW ON SLOPING TERRAIN); AVERAGE DEPTHS DETERMINED. FOR AREAS OF ALLUVIAL FAN FLOODING, VELOCITIES ALSO DETERMINED."

FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM	INDEX DATE	FIRM ZONE	BASE FLOOD ELEVATION (IN AO ZONE, USE DEPTH)
04013C	1320	L	10/16/2013	07/20/2021	AO	1

LEGEND

EXISTING SURVEY	PROPOSED GRADING, DRAINAGE & PAVING	ABBREVIATIONS
RIGHT OF WAY	STORM DRAIN PIPE	A.E. ACCESS EASEMENT
PROPERTY LINE	STORM DRAIN CATCH BASIN	PVT. PRIVATE
ROAD CENTERLINE	DRYWELL	SMH SEWER MANHOLE
EASEMENT	PROPOSED FIRELINE, WATER & SEWER	E.J.B. ELECRICAL JUNCTION BOX
SURVEY MARKER	WATER LINE	S.L. STREET LIGHT
4"G (MATERIAL) GAS LINE	WATER LINE FITTINGS	INV INVERT ELEVATION
8"S (MATERIAL) SEWER LINE	BACKFLOW PREVENTION DEVICE	I.V.B. IRRIGATION VALVE BOX
8"W (MATERIAL) WATER LINE	WATER VALVE	LFF LOWEST FINISHED FLOOR ELEVATION
CURB	FIRE HYDRANT	W.V. WATER VALVE
SIDEWALK	WATER METER	
VEGETATION	PLUG	
SEWER MANHOLE	TAPPING SLEEVE & VALVE	
JUNCTION BOX/RISER	SEWER LINE	
WATER VALVE	SEWER MANHOLE	
STREET LIGHT	CLEANOUT	

OWNER / DEVELOPER

STRATEGIC HOTELS & RESORTS
150 NORTH RIVERSIDE PLAZA, SUITE 4270
CHICAGO, IL 60606
CONTACT: TIMOTHY TAYLOR
PHONE: (312) 658-6038

ENGINEER

WOOD, PATEL & ASSOCIATES, INC.
2051 WEST NORTHERN AVENUE, SUITE 100
PHOENIX, ARIZONA 85021
CONTACT: DARIN MOORE, P.E.
PHONE: (602) 335-8500
FAX: (602) 335-8580

ARCHITECT

KOLLIN ALTOMARE ARCHITECTS
4265 E. CONANT STREET, SUITE 101
LONG BEACH, CA 90808
CONTACT: PAUL ALTOMARE
PHONE: (562) 597-8760

PROJECT SITE DATA

ASSESSOR PARCEL NUMBER(S):
215-08-003C
PROJECT SITE ADDRESS:
7575 E PRINCESS BLVD
SCOTTSDALE, ARIZONA 85255
PROJECT SITE AREA(S):
NET AREA = 17.0 AC
DISTURBED AREA = 8.1± AC
ZONING:
C2

SHEET INDEX

FINISH FLOOR ELEVATION CALCULATION

HAG = 1557.26
LAG = 1551.12
FF=1561.26
RFD=1559.26
ALL ELECTROMECHANICAL EQUIPMENT SHALL BE ELEVATED TO RFD ELEVATION

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FAIRMONT SCOTTSDALE PRINCESS CONFERENCE CENTER
CONCEPT GRADING, DRAINAGE, WATER & SEWER
SCOTTSDALE, ARIZONA
COVER SHEET

REV	DESCRIPTION	DATE

Registered Professional Engineer, Civil
CERTIFICATE NO. 36382
DARIN L. MOORE
ARIZONA
EXPIRES 06-30-25

SCALE (HORIZ.)	N/A
SCALE (VERT.)	N/A
DATE	11/22/2023
JOB NUMBER	215319.30
SHEET	A-C01 OF 5

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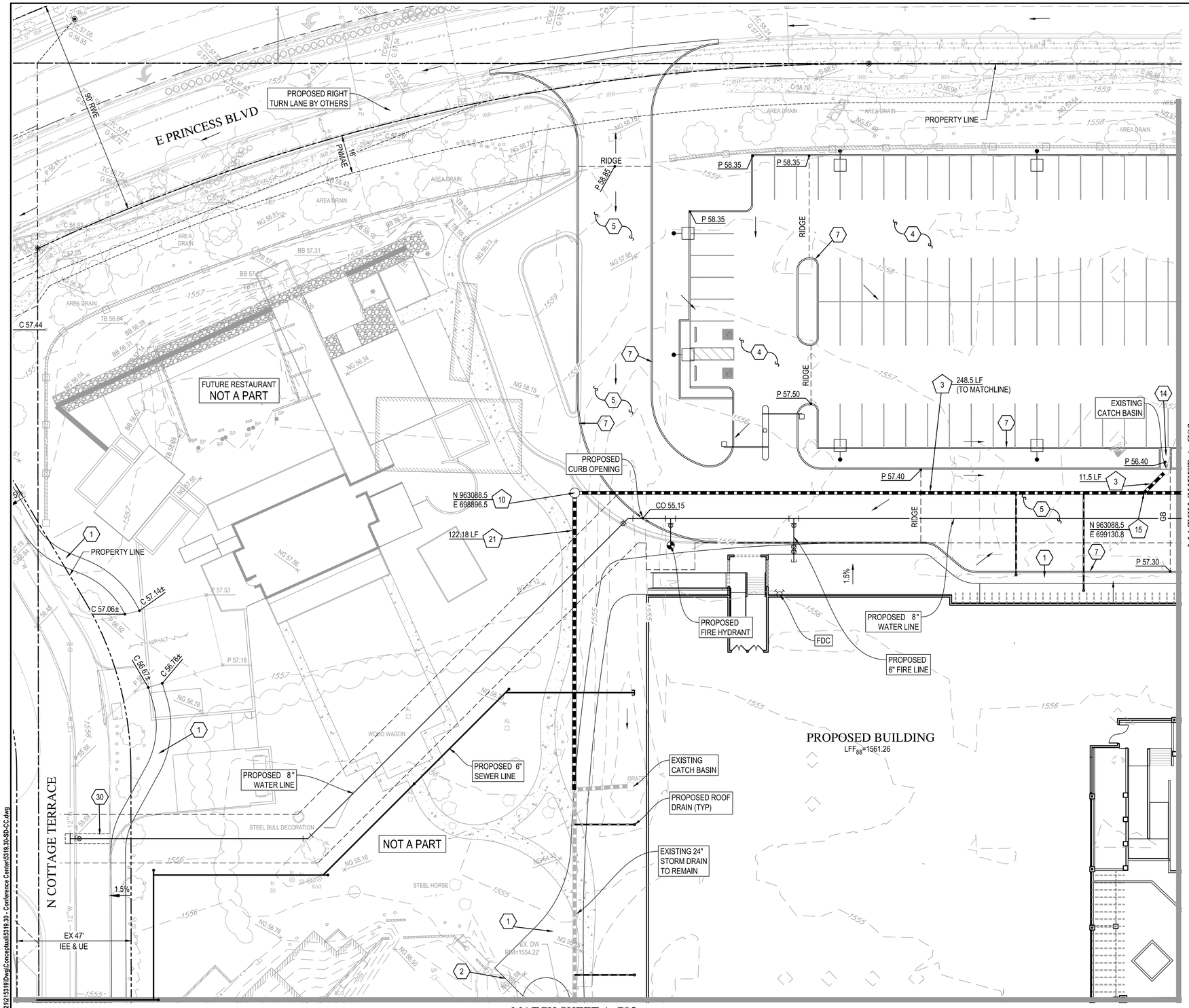

N

0 20 40

Horz. 1 in. = 20 ft.

PAVING NOTES

1. CONSTRUCT SIDEWALK PER M.A.G. STD. DET. 230. SEE LANDSCAPE PLANS FOR COLOR & FINISH.
2. MATCH EXISTING ELEVATIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. INSTALL LIGHT DUTY PAVEMENT, 3" A.C. PAVEMENT OVER 7" A.B.C. PER GEOTECHNICAL REPORT.
5. INSTALL HEAVY DUTY PAVEMENT, 3" A.C. PAVEMENT OVER 11" A.B.C. PER GEOTECHNICAL REPORT.
7. CONSTRUCT 6" SINGLE CURB PER MAG STD. DET. 222, TYPE A.
14. CONSTRUCT SIDEWALK SCUPPER PER M.A.G. STD. DETAIL 206-1.
29. REMOVE & REPLACE EXISTING PAVEMENT FOR UTILITY CONSTRUCTION PER M.A.G. STD. DETAIL 200-1.
30. SAWCUT, REMOVE & REPLACE EXISTING SINGLE CURB, CURB & GUTTER, AND CONCRETE SIDEWALK FOR PROPOSED UTILITY CONSTRUCTION TO THE NEAREST JOINT OF THE LIMITS SHOWN.

STORM DRAIN NOTES

3. INSTALL 15" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.
10. CONSTRUCT STORM DRAIN MANHOLE PER M.A.G. STD. DETAIL 520 & 522 WHERE NECESSARY, CONTRACTOR TO ROTATE COVER TO PREVENT CONFLICT WITH ADJACENT SIDEWALK.
15. INSTALL WYE, SIZE PER ADJOINING PIPE DIAMETER.
21. INSTALL 18" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.

NOTE:

1. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
2. CONTRACTOR TO VERIFY WITH THE GEOTECHNICAL ENGINEER THAT THE ROAD MEETS OR EXCEEDS THE 83,000 LB REQUIREMENT.
3. REFER TO SHEET A-C01 FOR HAG, LAG, AND RFD ELEVATION INFORMATION.

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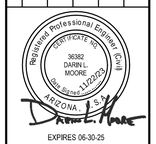
SCOTTSDALE, ARIZONA

CONCEPT GRADING, DRAINAGE, WATER, & SEWER

REV	DESCRIPTION	DATE



EXPIRES 06-30-25

SCALE (HORIZ.)	1" = 20'
SCALE (VERT.)	N/A
DATE	11/22/2023
JOB NUMBER	215319.30
SHEET	A-C02 OF 5

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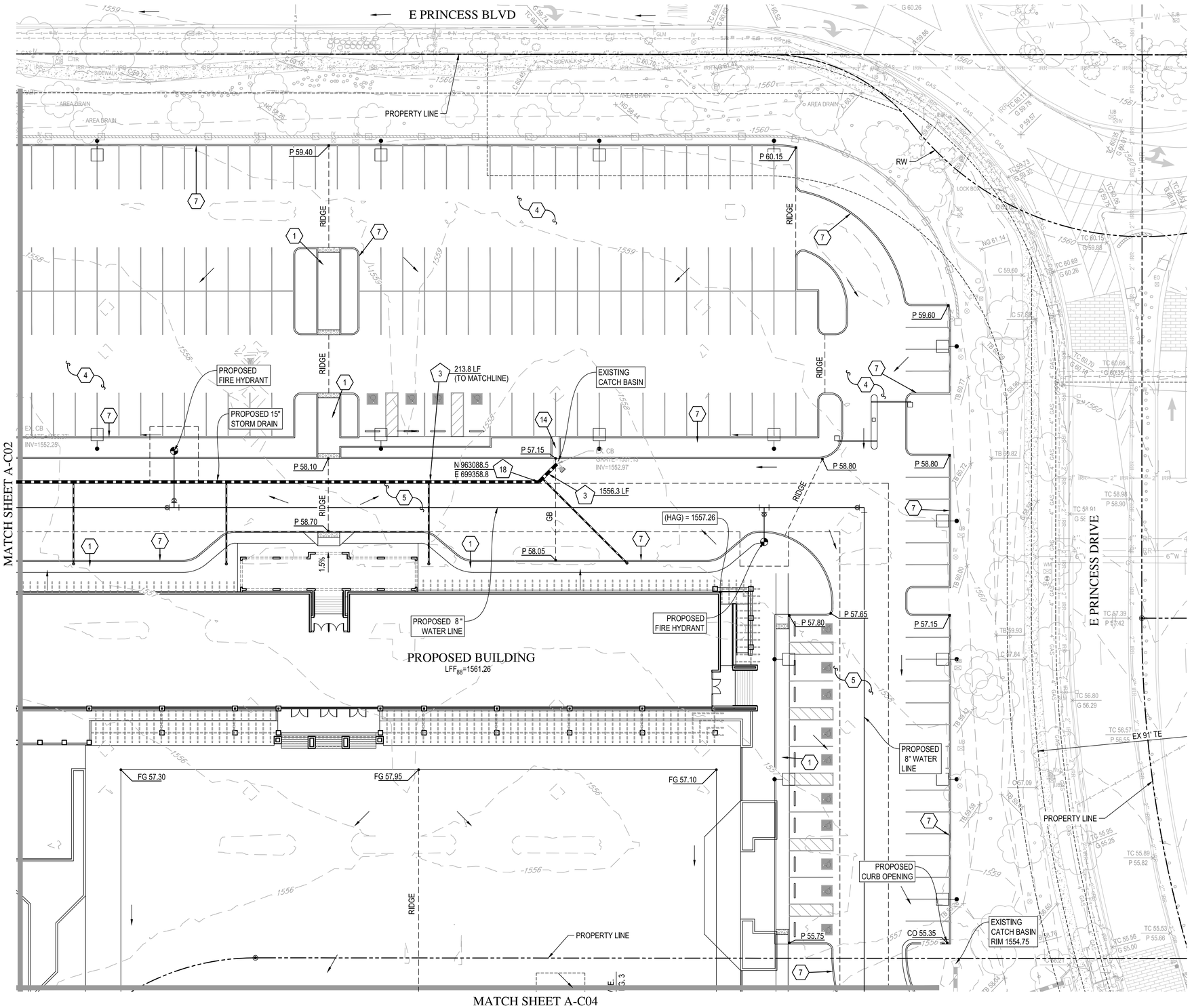

N

0 20 40

Horz. 1 in. = 20 ft.

PAVING NOTES

1. CONSTRUCT SIDEWALK PER M.A.G. STD. DET. 230. SEE LANDSCAPE PLANS FOR COLOR & FINISH.
4. INSTALL LIGHT DUTY PAVEMENT, 3" A.C. PAVEMENT OVER 7" A.B.C. PER GEOTECHNICAL REPORT.
5. INSTALL HEAVY DUTY PAVEMENT, 3" A.C. PAVEMENT OVER 11" A.B.C. PER GEOTECHNICAL REPORT.
7. CONSTRUCT 6" SINGLE CURB PER MAG STD. DET. 222, TYPE A.
14. CONSTRUCT SIDEWALK SCUPPER PER M.A.G. STD. DETAIL 206-1.

STORM DRAIN NOTES

3. INSTALL 15" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.
18. INSTALL BEND. SIZE PER ADJOINING PIPE DIAMETER. ANGLE PER PLAN.

NOTE:

1. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
2. CONTRACTOR TO VERIFY WITH THE GEOTECHNICAL ENGINEER THAT THE ROAD MEETS OR EXCEEDS THE 83,000 LB REQUIREMENT.
3. REFER TO SHEET A-C01 FOR HAG, LAG, AND RFD ELEVATION INFORMATION.

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SCOTTSDALE, ARIZONA

CONCEPT GRADING, DRAINAGE, WATER, & SEWER

REV	DESCRIPTION	DATE

Registered Professional Engineer (Civil)
CERTIFICATE NO.
36382
DARIN L. MOORE
Date Signed 11/22/2023
ARIZONA U.S.A.

EXPIRES 06-30-25

SCALE (HORIZ.)	1" = 20'
SCALE (VERT.)	N/A
DATE	11/22/2023
JOB NUMBER	215319.30
SHEET	A-C03 OF 5

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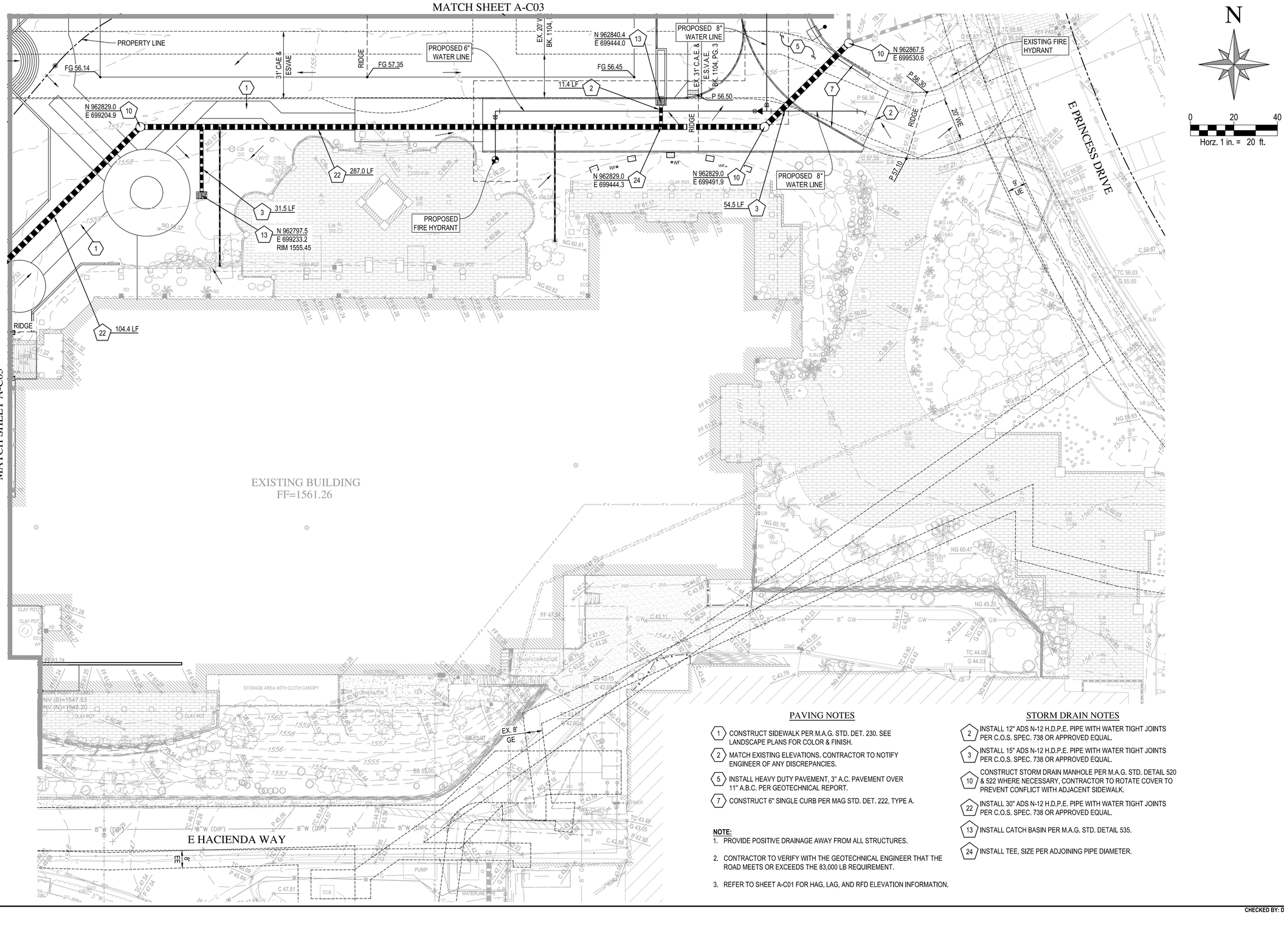

PAVING NOTES

1. CONSTRUCT SIDEWALK PER M.A.G. STD. DET. 230. SEE LANDSCAPE PLANS FOR COLOR & FINISH.
2. MATCH EXISTING ELEVATIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. INSTALL HEAVY DUTY PAVEMENT, 3" A.C. PAVEMENT OVER 11" A.B.C. PER GEOTECHNICAL REPORT.
7. CONSTRUCT 6" SINGLE CURB PER MAG STD. DET. 222, TYPE A.

STORM DRAIN NOTES

2. INSTALL 12" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.
3. INSTALL 15" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.
10. CONSTRUCT STORM DRAIN MANHOLE PER M.A.G. STD. DETAIL 520 & 522 WHERE NECESSARY, CONTRACTOR TO ROTATE COVER TO PREVENT CONFLICT WITH ADJACENT SIDEWALK.
22. INSTALL 30" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.
13. INSTALL CATCH BASIN PER M.A.G. STD. DETAIL 535.
24. INSTALL TEE, SIZE PER ADJOINING PIPE DIAMETER.

NOTE:

1. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
2. CONTRACTOR TO VERIFY WITH THE GEOTECHNICAL ENGINEER THAT THE ROAD MEETS OR EXCEEDS THE 83,000 LB REQUIREMENT.
3. REFER TO SHEET A-C01 FOR HAG, LAG, AND RFD ELEVATION INFORMATION.

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ARIZONA, U.S.A.

EXPIRES 06-30-25

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MATCH SHEET A-C02

N COTTAGE TERRACE

E HACIENDA WAY

PROPERTY LINE

NOT A PART

EXISTING 24" STORM DRAIN TO REMAIN

FMT SCOTTSDALE OWNER, LLC
FAIRMONT SCOTTSDALE PRINCESS
APN: 215-08-693

Describe Meter size and type of backflow preventer. DSPM 6-1.202

EXISTING 24" STORM DRAIN TO REMOVE

PROPOSED 4" DOMESTIC SERVICE

GREASE INTERCEPTOR BY OTHERS

PROPOSED 6" SEWER SERVICE

PROPOSED SEWER MANHOLE

PROPOSED FIRE HYDRANT

PROPOSED 8" SEWER LINE

PROPOSED 2" DOMESTIC SERVICE

PROPOSED 6" FIRE LINE

CONTECH MODEL DSBB-10-108 FIRST FLUSH TREATMENT DEVICE

PROPOSED BUILDING
LFF$_{88}$=1561.26

EX. 31' C.A.E. & E.S.V.A.E. BK. 1104, PG. 3

EX. 20' W.E. BK. 1104, PG. 3

PROPOSED REMOTE FDC

PROPOSED SEWER MANHOLE

PROPOSED 8" SEWER LINE

RIDGE

MATCH SHEET A-C04

N

0 20 40

Horz. 1 in. = 20 ft.

PAVING NOTES

1. CONSTRUCT SIDEWALK PER M.A.G. STD. DET. 230. SEE LANDSCAPE PLANS FOR COLOR & FINISH.
29. REMOVE & REPLACE EXISTING PAVEMENT FOR UTILITY CONSTRUCTION PER M.A.G. STD. DETAIL 200-1.

STORM DRAIN NOTES

4. INSTALL 24" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.
10. CONSTRUCT STORM DRAIN MANHOLE PER M.A.G. STD. DETAIL 520 & 522 WHERE NECESSARY, CONTRACTOR TO ROTATE COVER TO PREVENT CONFLICT WITH ADJACENT SIDEWALK.
21. INSTALL 18" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.
22. INSTALL 30" ADS N-12 H.D.P.E. PIPE WITH WATER TIGHT JOINTS PER C.O.S. SPEC. 738 OR APPROVED EQUAL.
24. INSTALL TEE, SIZE PER ADJOINING PIPE DIAMETER.

NOTE:

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ARIZONA
36382
DARIN L. MOORE
Date Signed 11/22/23

EXPIRES 06-30-25

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SHEET	A-C05 OF 5

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APPENDIX D – WATERCAD MODELING

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Calibration Static Model 1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
J-20	1,552.46	0	70	1,713.82	161.36
Fire (Roasterie)	1,559.64	0	67	1,713.82	154.18
Fire (Italian)	1,556.30	0	68	1,713.82	157.52
Fire (Guest Room)	1,550.00	0	71	1,713.82	163.82
Fire (Garage)	1,554.70	0	69	1,713.82	159.12
FH-8	1,552.10	0	70	1,713.82	161.72
FH-7	1,557.87	0	67	1,713.82	155.95
FH-2	1,553.15	0	70	1,713.82	160.67
FH-1	1,552.65	0	70	1,713.82	161.17
EX J-200	1,555.17	0	69	1,713.82	158.65
EX J-194	1,556.60	0	68	1,713.82	157.22
EX J-190	1,556.35	0	68	1,713.82	157.47
EX J-170	1,558.93	0	67	1,713.82	154.89
EX J-160	1,554.89	0	69	1,713.82	158.93
EX J-150	1,557.41	0	68	1,713.82	156.41
EX J-141	1,563.47	0	65	1,713.82	150.35
EX J-140	1,560.63	0	66	1,713.82	153.19
EX J-130	1,558.03	0	67	1,713.82	155.79
EX J-120	1,556.34	0	68	1,713.82	157.48
EX J-110	1,556.50	0	68	1,713.82	157.32
EX J-100	1,550.00	0	71	1,713.82	163.82
EX J-90	1,547.00	0	72	1,713.82	166.82
EX J-80	1,542.85	0	74	1,713.82	170.97
EX J-70	1,542.85	0	74	1,713.82	170.97
EX J-54	1,555.20	0	69	1,713.82	158.62
EX J-50	1,552.03	0	70	1,713.82	161.79
EX J-40	1,552.55	0	70	1,713.82	161.27
EX J-34	1,553.36	0	69	1,713.82	160.46
EX J-30	1,553.00	0	70	1,713.82	160.82
EX J-20	1,553.00	0	70	1,713.82	160.82
EX J-10	1,552.00	0	70	1,713.82	161.82
EX FH-12	1,552.10	0	70	1,713.82	161.72
EX FH-11	1,557.90	0	67	1,713.82	155.92
EX FH-9	1,554.65	0	69	1,713.82	159.17
EX FH-8	1,556.95	0	68	1,713.82	156.87
EX FH-7 (FLOW 2)	1,556.86	0	68	1,713.82	156.96
EX FH-6 (TEST 2)	1,559.33	0	67	1,713.82	154.49
EX FH-5	1,558.03	0	67	1,713.82	155.79
EX FH-4	1,557.29	0	68	1,713.82	156.53
EX FH-3 (FLOW 1)	1,550.00	0	71	1,713.82	163.82
EX FH-2	1,542.85	0	74	1,713.82	170.97
EX FH-1 (TEST 1)	1,547.30	0	72	1,713.82	166.52
Domestic (Villas and Bungalows)	1,553.30	0	69	1,713.82	160.52
Domestic (Roasterie)	1,560.25	0	66	1,713.82	153.57
Domestic (Italian)	1,556.30	0	68	1,713.82	157.52
Domestic (Guest Room)	1,550.00	0	71	1,713.82	163.82
Domestic (Conference Center)	1,553.33	0	69	1,713.82	160.49

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Calibration Static Model 2

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
J-20	1,552.46	0	75	1,725.73	173.27
Fire (Roasterie)	1,559.64	0	72	1,725.73	166.09
Fire (Italian)	1,556.30	0	73	1,725.73	169.43
Fire (Guest Room)	1,550.00	0	76	1,725.73	175.73
Fire (Garage)	1,554.70	0	74	1,725.73	171.03
FH-8	1,552.10	0	75	1,725.73	173.63
FH-7	1,557.87	0	73	1,725.73	167.86
FH-2	1,553.15	0	75	1,725.73	172.58
FH-1	1,552.65	0	75	1,725.73	173.08
EX J-200	1,555.17	0	74	1,725.73	170.56
EX J-194	1,556.60	0	73	1,725.73	169.13
EX J-190	1,556.35	0	73	1,725.73	169.38
EX J-170	1,558.93	0	72	1,725.73	166.80
EX J-160	1,554.89	0	74	1,725.73	170.84
EX J-150	1,557.41	0	73	1,725.73	168.32
EX J-141	1,563.47	0	70	1,725.73	162.26
EX J-140	1,560.63	0	71	1,725.73	165.10
EX J-130	1,558.03	0	73	1,725.73	167.70
EX J-120	1,556.34	0	73	1,725.73	169.39
EX J-110	1,556.50	0	73	1,725.73	169.23
EX J-100	1,550.00	0	76	1,725.73	175.73
EX J-90	1,547.00	0	77	1,725.73	178.73
EX J-80	1,542.85	0	79	1,725.73	182.88
EX J-70	1,542.85	0	79	1,725.73	182.88
EX J-54	1,555.20	0	74	1,725.73	170.53
EX J-50	1,552.03	0	75	1,725.73	173.70
EX J-40	1,552.55	0	75	1,725.73	173.18
EX J-34	1,553.36	0	75	1,725.73	172.37
EX J-30	1,553.00	0	75	1,725.73	172.73
EX J-20	1,553.00	0	75	1,725.73	172.73
EX J-10	1,552.00	0	75	1,725.73	173.73
EX FH-12	1,552.10	0	75	1,725.73	173.63
EX FH-11	1,557.90	0	73	1,725.73	167.83
EX FH-9	1,554.65	0	74	1,725.73	171.08
EX FH-8	1,556.95	0	73	1,725.73	168.78
EX FH-7 (FLOW 2)	1,556.86	0	73	1,725.73	168.87
EX FH-6 (TEST 2)	1,559.33	0	72	1,725.73	166.40
EX FH-5	1,558.03	0	73	1,725.73	167.70
EX FH-4	1,557.29	0	73	1,725.73	168.44
EX FH-3 (FLOW 1)	1,550.00	0	76	1,725.73	175.73
EX FH-2	1,542.85	0	79	1,725.73	182.88
EX FH-1 (TEST 1)	1,547.30	0	77	1,725.73	178.43
Domestic (Villas and Bungalows)	1,553.30	0	75	1,725.73	172.43
Domestic (Roasterie)	1,560.25	0	72	1,725.73	165.48
Domestic (Italian)	1,556.30	0	73	1,725.73	169.43
Domestic (Guest Room)	1,550.00	0	76	1,725.73	175.73
Domestic (Conference Center)	1,553.33	0	75	1,725.73	172.40

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Calibration Residual Model 1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
J-20	1,552.46	0	52	1,671.64	119.19
Fire (Roasterie)	1,559.64	0	49	1,672.90	113.27
Fire (Italian)	1,556.30	0	50	1,671.44	115.14
Fire (Guest Room)	1,550.00	0	54	1,675.65	125.65
Fire (Garage)	1,554.70	0	51	1,671.47	116.77
FH-8	1,552.10	0	52	1,671.66	119.56
FH-7	1,557.87	0	50	1,674.07	116.20
FH-2	1,553.15	0	51	1,671.54	118.39
FH-1	1,552.65	0	51	1,671.63	118.98
EX J-200	1,555.17	0	50	1,671.57	116.40
EX J-194	1,556.60	0	50	1,671.49	114.90
EX J-190	1,556.35	0	50	1,671.50	115.15
EX J-170	1,558.93	0	49	1,671.47	112.54
EX J-160	1,554.89	0	50	1,671.47	116.58
EX J-150	1,557.41	0	49	1,671.47	114.06
EX J-141	1,563.47	0	47	1,671.46	107.99
EX J-140	1,560.63	0	48	1,671.46	110.83
EX J-130	1,558.03	0	49	1,671.45	113.42
EX J-120	1,556.34	0	50	1,671.44	115.10
EX J-110	1,556.50	0	50	1,671.44	114.94
EX J-100	1,550.00	0	53	1,671.56	121.56
EX J-90	1,547.00	0	56	1,676.85	129.85
EX J-80	1,542.85	0	58	1,676.80	133.95
EX J-70	1,542.85	0	58	1,676.62	133.77
EX J-54	1,555.20	0	51	1,672.55	117.35
EX J-50	1,552.03	0	52	1,671.66	119.63
EX J-40	1,552.55	0	52	1,671.59	119.04
EX J-34	1,553.36	0	51	1,671.52	118.16
EX J-30	1,553.00	0	51	1,671.49	118.49
EX J-20	1,553.00	0	51	1,671.47	118.47
EX J-10	1,552.00	0	52	1,671.43	119.43
EX FH-12	1,552.10	0	52	1,671.66	119.56
EX FH-11	1,557.90	0	49	1,671.47	113.57
EX FH-9	1,554.65	0	51	1,671.55	116.90
EX FH-8	1,556.95	0	50	1,671.52	114.57
EX FH-7 (FLOW 2)	1,556.86	0	50	1,671.49	114.63
EX FH-6 (TEST 2)	1,559.33	0	49	1,671.47	112.14
EX FH-5	1,558.03	0	49	1,671.45	113.42
EX FH-4	1,557.29	0	49	1,671.45	114.16
EX FH-3 (FLOW 1)	1,550.00	2,718	53	1,671.42	121.42
EX FH-2	1,542.85	0	58	1,676.53	133.68
EX FH-1 (TEST 1)	1,547.30	0	56	1,676.86	129.56
Domestic (Villas and Bungalows)	1,553.30	0	51	1,671.53	118.22
Domestic (Roasterie)	1,560.25	0	49	1,672.95	112.70
Domestic (Italian)	1,556.30	0	50	1,671.44	115.14
Domestic (Guest Room)	1,550.00	0	54	1,675.74	125.74
Domestic (Conference Center)	1,553.33	0	51	1,671.52	118.19

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Calibration Residual Model 2

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
J-20	1,552.46	0	63	1,698.53	146.07
Fire (Roasterie)	1,559.64	0	60	1,698.73	139.09
Fire (Italian)	1,556.30	0	62	1,699.58	143.27
Fire (Guest Room)	1,550.00	0	65	1,699.35	149.35
Fire (Garage)	1,554.70	0	62	1,699.02	144.32
FH-8	1,552.10	0	63	1,698.53	146.43
FH-7	1,557.87	0	61	1,698.91	141.04
FH-2	1,553.15	0	63	1,698.79	145.64
FH-1	1,552.65	0	63	1,698.53	145.88
EX J-200	1,555.17	0	62	1,697.96	142.79
EX J-194	1,556.60	0	60	1,695.80	139.21
EX J-190	1,556.35	0	60	1,695.98	139.63
EX J-170	1,558.93	0	61	1,699.99	141.06
EX J-160	1,554.89	0	62	1,699.02	144.13
EX J-150	1,557.41	0	61	1,699.02	141.61
EX J-141	1,563.47	0	59	1,700.21	136.74
EX J-140	1,560.63	0	60	1,700.21	139.58
EX J-130	1,558.03	0	61	1,699.88	141.85
EX J-120	1,556.34	0	62	1,699.65	143.31
EX J-110	1,556.50	0	62	1,699.48	142.98
EX J-100	1,550.00	0	65	1,699.36	149.36
EX J-90	1,547.00	0	66	1,699.35	152.35
EX J-80	1,542.85	0	68	1,699.34	156.49
EX J-70	1,542.85	0	68	1,699.31	156.46
EX J-54	1,555.20	0	62	1,698.67	143.47
EX J-50	1,552.03	0	63	1,698.53	146.50
EX J-40	1,552.55	0	63	1,698.52	145.97
EX J-34	1,553.36	0	63	1,698.88	145.52
EX J-30	1,553.00	0	63	1,699.04	146.04
EX J-20	1,553.00	0	63	1,699.16	146.16
EX J-10	1,552.00	0	64	1,699.36	147.36
EX FH-12	1,552.10	0	63	1,698.53	146.43
EX FH-11	1,557.90	0	61	1,699.02	141.12
EX FH-9	1,554.65	0	62	1,697.48	142.83
EX FH-8	1,556.95	0	60	1,696.45	139.50
EX FH-7 (FLOW 2)	1,556.86	1,880	60	1,695.61	138.75
EX FH-6 (TEST 2)	1,559.33	0	61	1,700.33	141.00
EX FH-5	1,558.03	0	61	1,699.87	141.84
EX FH-4	1,557.29	0	62	1,699.77	142.48
EX FH-3 (FLOW 1)	1,550.00	0	65	1,699.36	149.36
EX FH-2	1,542.85	0	68	1,699.30	156.45
EX FH-1 (TEST 1)	1,547.30	0	66	1,699.35	152.05
Domestic (Villas and Bungalows)	1,553.30	0	63	1,698.86	145.55
Domestic (Roasterie)	1,560.25	0	60	1,698.73	138.48
Domestic (Italian)	1,556.30	0	62	1,699.57	143.27
Domestic (Guest Room)	1,550.00	0	65	1,699.35	149.35
Domestic (Conference Center)	1,553.33	0	63	1,698.87	145.54

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Calibration Flow@20 Model 1

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
J-20	1,552.46	0	11	1,576.75	24.29
Fire (Roasterie)	1,559.64	0	9	1,580.85	21.21
Fire (Italian)	1,556.30	0	9	1,576.09	19.79
Fire (Guest Room)	1,550.00	0	17	1,589.77	39.77
Fire (Garage)	1,554.70	0	9	1,576.19	21.49
FH-8	1,552.10	0	11	1,576.81	24.71
FH-7	1,557.87	0	12	1,584.62	26.75
FH-2	1,553.15	0	10	1,576.41	23.26
FH-1	1,552.65	0	10	1,576.72	24.07
EX J-200	1,555.17	0	9	1,576.50	21.33
EX J-194	1,556.60	0	9	1,576.26	19.66
EX J-190	1,556.35	0	9	1,576.28	19.93
EX J-170	1,558.93	0	7	1,576.18	17.25
EX J-160	1,554.89	0	9	1,576.19	21.30
EX J-150	1,557.41	0	8	1,576.19	18.78
EX J-141	1,563.47	0	5	1,576.17	12.70
EX J-140	1,560.63	0	7	1,576.17	15.54
EX J-130	1,558.03	0	8	1,576.13	18.10
EX J-120	1,556.34	0	9	1,576.10	19.76
EX J-110	1,556.50	0	8	1,576.08	19.58
EX J-100	1,550.00	0	11	1,576.48	26.48
EX J-90	1,547.00	0	20	1,593.66	46.66
EX J-80	1,542.85	0	22	1,593.51	50.66
EX J-70	1,542.85	0	22	1,592.91	50.06
EX J-54	1,555.20	0	11	1,579.69	24.49
EX J-50	1,552.03	0	11	1,576.81	24.78
EX J-40	1,552.55	0	10	1,576.57	24.02
EX J-34	1,553.36	0	10	1,576.35	22.99
EX J-30	1,553.00	0	10	1,576.26	23.26
EX J-20	1,553.00	0	10	1,576.19	23.19
EX J-10	1,552.00	0	10	1,576.07	24.07
EX FH-12	1,552.10	0	11	1,576.81	24.71
EX FH-11	1,557.90	0	8	1,576.19	18.29
EX FH-9	1,554.65	0	9	1,576.45	21.80
EX FH-8	1,556.95	0	8	1,576.33	19.38
EX FH-7 (FLOW 2)	1,556.86	0	8	1,576.23	19.37
EX FH-6 (TEST 2)	1,559.33	0	7	1,576.18	16.85
EX FH-5	1,558.03	0	8	1,576.13	18.10
EX FH-4	1,557.29	0	8	1,576.12	18.82
EX FH-3 (FLOW 1)	1,550.00	5,136	11	1,576.01	26.01
EX FH-2	1,542.85	0	22	1,592.61	49.76
EX FH-1 (TEST 1)	1,547.30	0	20	1,593.70	46.40
Domestic (Villas and Bungalows)	1,553.30	0	10	1,576.37	23.06
Domestic (Roasterie)	1,560.25	0	9	1,581.01	20.76
Domestic (Italian)	1,556.30	0	9	1,576.09	19.79
Domestic (Guest Room)	1,550.00	0	17	1,590.05	40.05
Domestic (Conference Center)	1,553.33	0	10	1,576.36	23.03

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Calibration Flow@20 Model 2

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
J-20	1,552.46	0	19	1,597.26	44.81
Fire (Roasterie)	1,559.64	0	17	1,598.20	38.57
Fire (Italian)	1,556.30	0	20	1,602.23	45.92
Fire (Guest Room)	1,550.00	0	22	1,601.16	51.16
Fire (Garage)	1,554.70	0	19	1,599.60	44.90
FH-8	1,552.10	0	20	1,597.28	45.18
FH-7	1,557.87	0	18	1,599.07	41.20
FH-2	1,553.15	0	20	1,598.48	45.34
FH-1	1,552.65	0	19	1,597.26	44.61
EX J-200	1,555.17	0	17	1,594.57	39.40
EX J-194	1,556.60	0	12	1,584.39	27.79
EX J-190	1,556.35	0	12	1,585.22	28.87
EX J-170	1,558.93	0	20	1,604.17	45.24
EX J-160	1,554.89	0	19	1,599.60	44.71
EX J-150	1,557.41	0	18	1,599.60	42.19
EX J-141	1,563.47	0	18	1,605.24	41.77
EX J-140	1,560.63	0	19	1,605.24	44.61
EX J-130	1,558.03	0	20	1,603.64	45.61
EX J-120	1,556.34	0	20	1,602.55	46.21
EX J-110	1,556.50	0	20	1,601.78	45.28
EX J-100	1,550.00	0	22	1,601.19	51.19
EX J-90	1,547.00	0	23	1,601.14	54.14
EX J-80	1,542.85	0	25	1,601.11	58.26
EX J-70	1,542.85	0	25	1,600.97	58.12
EX J-54	1,555.20	0	18	1,597.94	42.74
EX J-50	1,552.03	0	20	1,597.28	45.25
EX J-40	1,552.55	0	19	1,597.22	44.67
EX J-34	1,553.36	0	20	1,598.93	45.57
EX J-30	1,553.00	0	20	1,599.70	46.70
EX J-20	1,553.00	0	20	1,600.23	47.23
EX J-10	1,552.00	0	21	1,601.21	49.21
EX FH-12	1,552.10	0	20	1,597.28	45.18
EX FH-11	1,557.90	0	18	1,599.60	41.70
EX FH-9	1,554.65	0	16	1,592.31	37.66
EX FH-8	1,556.95	0	13	1,587.43	30.48
EX FH-7 (FLOW 2)	1,556.86	4,349	12	1,583.49	26.63
EX FH-6 (TEST 2)	1,559.33	0	20	1,605.78	46.45
EX FH-5	1,558.03	0	20	1,603.62	45.59
EX FH-4	1,557.29	0	20	1,603.15	45.86
EX FH-3 (FLOW 1)	1,550.00	0	22	1,601.19	51.19
EX FH-2	1,542.85	0	25	1,600.90	58.05
EX FH-1 (TEST 1)	1,547.30	0	23	1,601.15	53.85
Domestic (Villas and Bungalows)	1,553.30	0	20	1,598.81	45.51
Domestic (Roasterie)	1,560.25	0	16	1,598.24	37.99
Domestic (Italian)	1,556.30	0	20	1,602.20	45.90
Domestic (Guest Room)	1,550.00	0	22	1,601.16	51.16
Domestic (Conference Center)	1,553.33	0	20	1,598.87	45.54

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Average Daily Demand

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
Domestic (Conference Center)	1,553.33	111	69	1,713.14	159.81
Domestic (Guest Room)	1,550.00	96	71	1,713.25	163.25
Domestic (Italian)	1,556.30	29	68	1,713.21	156.91
Domestic (Roasterie)	1,560.25	19	66	1,713.15	152.90
Domestic (Villas and Bungalows)	1,553.30	27	69	1,713.14	159.84
EX FH-1 (TEST 1)	1,547.30	0	72	1,713.27	165.97
EX FH-2	1,542.85	0	74	1,713.26	170.41
EX FH-3 (FLOW 1)	1,550.00	0	71	1,713.23	163.23
EX FH-4	1,557.29	0	67	1,713.21	155.92
EX FH-5	1,558.03	0	67	1,713.21	155.18
EX FH-6 (TEST 2)	1,559.33	0	67	1,713.21	153.89
EX FH-7 (FLOW 2)	1,556.86	0	68	1,713.21	156.35
EX FH-10	1,563.50	0	65	1,713.21	149.71
EX FH-11	1,557.90	0	67	1,713.21	155.31
EX FH-12	1,552.10	0	70	1,713.14	161.04
EX J-10	1,552.00	0	70	1,713.22	161.22
EX J-20	1,553.00	0	69	1,713.18	160.18
EX J-30	1,553.00	0	69	1,713.17	160.17
EX J-34	1,553.36	0	69	1,713.14	159.78
EX J-40	1,552.55	0	69	1,713.14	160.59
EX J-50	1,552.03	0	70	1,713.14	161.11
EX J-54	1,555.20	0	68	1,713.15	157.95
EX J-70	1,542.85	0	74	1,713.26	170.41
EX J-80	1,542.85	0	74	1,713.26	170.41
EX J-90	1,547.00	0	72	1,713.27	166.27
EX J-100	1,550.00	0	71	1,713.23	163.23
EX J-110	1,556.50	0	68	1,713.21	156.71
EX J-120	1,556.34	0	68	1,713.21	156.87
EX J-130	1,558.03	0	67	1,713.21	155.18
EX J-140	1,560.63	0	66	1,713.21	152.58
EX J-141	1,563.47	0	65	1,713.21	149.74
EX J-150	1,557.41	0	67	1,713.21	155.80
EX J-160	1,554.89	0	68	1,713.21	158.32
EX J-170	1,558.93	0	67	1,713.21	154.28
EX J-190	1,556.35	0	68	1,713.21	156.86
EX J-194	1,556.60	0	68	1,713.21	156.62
FH-1	1,552.65	0	69	1,713.14	160.49
FH-2	1,553.15	0	69	1,713.14	159.99
FH-3	1,556.46	0	68	1,713.21	156.75
FH-4	1,556.42	0	68	1,713.21	156.79
FH-5	1,556.39	0	68	1,713.21	156.83
FH-6	1,556.95	0	68	1,713.21	156.26
FH-7	1,557.87	0	67	1,713.18	155.31
FH-8	1,552.10	0	70	1,713.14	161.04
Fire (Conf. Center)	1,556.46	0	68	1,713.21	156.75
Fire (Garage)	1,554.70	0	69	1,713.21	158.51
Fire (Guest Room)	1,550.00	0	71	1,713.25	163.25
Fire (Italian)	1,556.30	0	68	1,713.21	156.91
Fire (Roasterie)	1,559.64	0	66	1,713.15	153.51

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Average Daily Demand

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
Fire (Villas and Bungalows)	1,553.13	0	69	1,713.15	160.01
J-10	1,550.14	0	71	1,713.15	163.01
J-20	1,552.46	0	70	1,713.14	160.69
J-66	1,556.22	0	68	1,713.21	156.99

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Pipe Table

Active Scenario: Average Daily Demand

Label	Start Node	Stop Node	Length (ft)	Diameter (in)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)
P-R-1	R-1	PMP-1	1	48.0	130.0	281	0.05
P-PMP-1	PMP-1	EX FH-1 (TEST 1)	1	48.0	130.0	281	0.05
P-EX FH-11	EX J-150	EX FH-11	23	12.0	130.0	0	0.00
P-55	FH-6	J-66	125	8.0	130.0	0	0.00
P-50	FH-3	EX J-110	302	8.0	130.0	-3	0.02
P-31	FH-3	Fire (Conf. Center)	51	8.0	130.0	3	0.02
P-29	Fire (Conf. Center)	FH-4	222	8.0	130.0	3	0.02
P-27	FH-4	FH-5	243	8.0	130.0	3	0.02
P-25	FH-5	EX J-190	267	8.0	130.0	3	0.02
P-23	J-66	EX J-190	16	8.0	130.0	-3	0.02
P-21	EX J-194	J-66	44	8.0	130.0	-3	0.02
P-17	EX J-54	Fire (Villas and Bungalows)	73	8.0	130.0	13	0.08
P-15	Fire (Villas and Bungalows)	J-10	106	8.0	130.0	13	0.08
P-5	J-10	EX J-34	333	8.0	130.0	13	0.08
EX P-193	EX FH-7 (FLOW 2)	EX J-194	50	8.0	130.0	-3	0.02
EX P-191	EX J-160	EX FH-7 (FLOW 2)	93	8.0	130.0	-3	0.02
EX P-177	EX FH-6 (TEST 2)	EX J-140	221	12.0	130.0	2	0.01
EX P-175	EX J-170	EX FH-6 (TEST 2)	67	12.0	130.0	2	0.01
EX P-165	EX J-160	EX J-170	191	12.0	130.0	2	0.01
EX P-157	EX J-160	Fire (Garage)	189	12.0	130.0	0	0.00
EX P-155	Fire (Garage)	EX J-150	268	12.0	130.0	0	0.00
EX P-147(1)	EX J-150	EX FH-10	802	6.0	130.0	0	0.00
EX P-147	EX FH-10	EX J-141	91	6.0	130.0	0	0.00
EX P-145	EX J-141	EX J-140	403	12.0	130.0	0	0.00
EX P-135	EX J-140	EX J-130	649	12.0	130.0	3	0.01
EX P-129	EX J-130	EX FH-5	9	12.0	130.0	3	0.01
EX P-127	EX FH-5	EX FH-4	190	12.0	130.0	3	0.01
EX P-125	EX FH-4	EX J-120	245	12.0	130.0	3	0.01
EX P-117	EX J-120	Fire (Italian)	130	12.0	130.0	3	0.01
EX P-115	Fire (Italian)	Domestic (Italian)	13	12.0	130.0	3	0.01
EX P-113	Domestic (Italian)	EX J-110	171	12.0	130.0	-26	0.07
EX P-109	EX J-110	EX J-10	231	12.0	130.0	-29	0.08
EX P-107	EX J-10	EX FH-3 (FLOW 1)	133	12.0	130.0	-154	0.44
EX P-105	EX FH-3 (FLOW 1)	EX J-100	10	12.0	130.0	-154	0.44
EX P-99	EX J-100	Fire (Guest Room)	294	12.0	130.0	-154	0.44
EX P-97	Fire (Guest Room)	Domestic (Guest Room)	6	12.0	130.0	-154	0.44
EX P-95	Domestic (Guest Room)	EX FH-1 (TEST 1)	81	12.0	130.0	-250	0.71
EX P-93	EX FH-1 (TEST 1)	EX J-90	87	12.0	130.0	32	0.09
EX P-85	EX J-90	EX J-80	323	12.0	130.0	32	0.09

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Pipe Table

Active Scenario: Average Daily Demand

Label	Start Node	Stop Node	Length (ft)	Diameter (in)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)
EX P-75	EX J-80	EX J-70	46	6.0	130.0	32	0.36
EX P-65	EX J-70	EX FH-2	22	6.0	130.0	32	0.36
EX P-59	EX FH-12	FH-8	37	8.0	130.0	0	0.00
EX P-58	EX J-50	EX FH-12	89	8.0	130.0	0	0.00
EX P-57(2)	FH-7	Domestic (Roasterie)	272	6.0	130.0	32	0.36
EX P-57(1)	EX FH-2	FH-7	603	6.0	130.0	32	0.36
EX P-55	Domestic (Roasterie)	Fire (Roasterie)	12	6.0	130.0	13	0.14
EX P-53	Fire (Roasterie)	EX J-54	87	6.0	130.0	13	0.14
EX P-47(2)	J-20	FH-1	9	8.0	130.0	0	0.00
EX P-47(1)	EX J-50	J-20	19	8.0	130.0	0	0.00
EX P-45	FH-1	EX J-40	46	8.0	130.0	0	0.00
EX P-39	EX J-40	FH-2	103	8.0	130.0	0	0.00
EX P-37	FH-2	Domestic (Villas and Bungalows)	27	8.0	130.0	0	0.00
EX P-35(2)	Domestic (Conference Center)	EX J-34	5	8.0	130.0	-137	0.88
EX P-35(1)	Domestic (Villas and Bungalows)	Domestic (Conference Center)	5	8.0	130.0	-27	0.17
EX P-33	EX J-34	EX J-30	63	8.0	130.0	-125	0.80
EX P-25	EX J-30	EX J-20	43	8.0	130.0	-125	0.80
EX P-15	EX J-20	EX J-10	80	8.0	130.0	-125	0.80

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Max Day

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
Domestic (Conference Center)	1,553.33	221	68	1,711.37	158.04
Domestic (Guest Room)	1,550.00	192	70	1,711.76	161.76
Domestic (Italian)	1,556.30	58	67	1,711.63	155.33
Domestic (Roasterie)	1,560.25	38	65	1,711.40	151.15
Domestic (Villas and Bungalows)	1,553.30	53	68	1,711.37	158.07
EX FH-1 (TEST 1)	1,547.30	0	71	1,711.82	164.52
EX FH-2	1,542.85	0	73	1,711.78	168.93
EX FH-3 (FLOW 1)	1,550.00	0	70	1,711.68	161.68
EX FH-4	1,557.29	0	67	1,711.63	154.34
EX FH-5	1,558.03	0	66	1,711.63	153.60
EX FH-6 (TEST 2)	1,559.33	0	66	1,711.63	152.31
EX FH-7 (FLOW 2)	1,556.86	0	67	1,711.63	154.77
EX FH-10	1,563.50	0	64	1,711.63	148.13
EX FH-11	1,557.90	0	67	1,711.63	153.73
EX FH-12	1,552.10	0	69	1,711.37	159.27
EX J-10	1,552.00	0	69	1,711.64	159.64
EX J-20	1,553.00	0	69	1,711.53	158.53
EX J-30	1,553.00	0	69	1,711.47	158.47
EX J-34	1,553.36	0	68	1,711.38	158.02
EX J-40	1,552.55	0	69	1,711.37	158.82
EX J-50	1,552.03	0	69	1,711.37	159.34
EX J-54	1,555.20	0	68	1,711.39	156.19
EX J-70	1,542.85	0	73	1,711.79	168.94
EX J-80	1,542.85	0	73	1,711.81	168.96
EX J-90	1,547.00	0	71	1,711.82	164.82
EX J-100	1,550.00	0	70	1,711.68	161.68
EX J-110	1,556.50	0	67	1,711.64	155.14
EX J-120	1,556.34	0	67	1,711.63	155.29
EX J-130	1,558.03	0	66	1,711.63	153.60
EX J-140	1,560.63	0	65	1,711.63	151.00
EX J-141	1,563.47	0	64	1,711.63	148.16
EX J-150	1,557.41	0	67	1,711.63	154.22
EX J-160	1,554.89	0	68	1,711.63	156.74
EX J-170	1,558.93	0	66	1,711.63	152.70
EX J-190	1,556.35	0	67	1,711.63	155.28
EX J-194	1,556.60	0	67	1,711.63	155.04
FH-1	1,552.65	0	69	1,711.37	158.72
FH-2	1,553.15	0	68	1,711.37	158.22
FH-3	1,556.46	0	67	1,711.63	155.17
FH-4	1,556.42	0	67	1,711.63	155.21
FH-5	1,556.39	0	67	1,711.63	155.25
FH-6	1,556.95	0	67	1,711.63	154.68
FH-7	1,557.87	0	66	1,711.52	153.65
FH-8	1,552.10	0	69	1,711.37	159.27
Fire (Conf. Center)	1,556.46	0	67	1,711.63	155.17
Fire (Garage)	1,554.70	0	68	1,711.63	156.93
Fire (Guest Room)	1,550.00	0	70	1,711.76	161.76
Fire (Italian)	1,556.30	0	67	1,711.63	155.33
Fire (Roasterie)	1,559.64	0	66	1,711.40	151.76

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Max Day

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
Fire (Villas and Bungalows)	1,553.13	0	68	1,711.39	158.25
J-10	1,550.14	0	70	1,711.39	161.25
J-20	1,552.46	0	69	1,711.37	158.91
J-66	1,556.22	0	67	1,711.63	155.41

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Pipe Table

Active Scenario: Max Day

Label	Start Node	Stop Node	Length (ft)	Diameter (in)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)
P-R-1	R-1	PMP-1	1	48.0	130.0	563	0.10
P-PMP-1	PMP-1	EX FH-1 (TEST 1)	1	48.0	130.0	563	0.10
P-EX FH-11	EX J-150	EX FH-11	23	12.0	130.0	0	0.00
P-55	FH-6	J-66	125	8.0	130.0	0	0.00
P-50	FH-3	EX J-110	302	8.0	130.0	-6	0.04
P-31	FH-3	Fire (Conf. Center)	51	8.0	130.0	6	0.04
P-29	Fire (Conf. Center)	FH-4	222	8.0	130.0	6	0.04
P-27	FH-4	FH-5	243	8.0	130.0	6	0.04
P-25	FH-5	EX J-190	267	8.0	130.0	6	0.04
P-23	J-66	EX J-190	16	8.0	130.0	-6	0.04
P-21	EX J-194	J-66	44	8.0	130.0	-6	0.04
P-17	EX J-54	Fire (Villas and Bungalows)	73	8.0	130.0	25	0.16
P-15	Fire (Villas and Bungalows)	J-10	106	8.0	130.0	25	0.16
P-5	J-10	EX J-34	333	8.0	130.0	25	0.16
EX P-193	EX FH-7 (FLOW 2)	EX J-194	50	8.0	130.0	-6	0.04
EX P-191	EX J-160	EX FH-7 (FLOW 2)	93	8.0	130.0	-6	0.04
EX P-177	EX FH-6 (TEST 2)	EX J-140	221	12.0	130.0	5	0.01
EX P-175	EX J-170	EX FH-6 (TEST 2)	67	12.0	130.0	5	0.01
EX P-165	EX J-160	EX J-170	191	12.0	130.0	5	0.01
EX P-157	EX J-160	Fire (Garage)	189	12.0	130.0	1	0.00
EX P-155	Fire (Garage)	EX J-150	268	12.0	130.0	1	0.00
EX P-147(1)	EX J-150	EX FH-10	802	6.0	130.0	1	0.01
EX P-147	EX FH-10	EX J-141	91	6.0	130.0	1	0.01
EX P-145	EX J-141	EX J-140	403	12.0	130.0	1	0.00
EX P-135	EX J-140	EX J-130	649	12.0	130.0	6	0.02
EX P-129	EX J-130	EX FH-5	9	12.0	130.0	6	0.02
EX P-127	EX FH-5	EX FH-4	190	12.0	130.0	6	0.02
EX P-125	EX FH-4	EX J-120	245	12.0	130.0	6	0.02
EX P-117	EX J-120	Fire (Italian)	130	12.0	130.0	6	0.02
EX P-115	Fire (Italian)	Domestic (Italian)	13	12.0	130.0	6	0.02
EX P-113	Domestic (Italian)	EX J-110	171	12.0	130.0	-52	0.15
EX P-109	EX J-110	EX J-10	231	12.0	130.0	-58	0.16
EX P-107	EX J-10	EX FH-3 (FLOW 1)	133	12.0	130.0	-307	0.87
EX P-105	EX FH-3 (FLOW 1)	EX J-100	10	12.0	130.0	-307	0.87
EX P-99	EX J-100	Fire (Guest Room)	294	12.0	130.0	-307	0.87
EX P-97	Fire (Guest Room)	Domestic (Guest Room)	6	12.0	130.0	-307	0.87
EX P-95	Domestic (Guest Room)	EX FH-1 (TEST 1)	81	12.0	130.0	-500	1.42
EX P-93	EX FH-1 (TEST 1)	EX J-90	87	12.0	130.0	63	0.18
EX P-85	EX J-90	EX J-80	323	12.0	130.0	63	0.18

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Pipe Table

Active Scenario: Max Day

Label	Start Node	Stop Node	Length (ft)	Diameter (in)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)
EX P-75	EX J-80	EX J-70	46	6.0	130.0	63	0.72
EX P-65	EX J-70	EX FH-2	22	6.0	130.0	63	0.72
EX P-59	EX FH-12	FH-8	37	8.0	130.0	0	0.00
EX P-58	EX J-50	EX FH-12	89	8.0	130.0	0	0.00
EX P-57(2)	FH-7	Domestic (Roasterie)	272	6.0	130.0	63	0.72
EX P-57(1)	EX FH-2	FH-7	603	6.0	130.0	63	0.72
EX P-55	Domestic (Roasterie)	Fire (Roasterie)	12	6.0	130.0	25	0.28
EX P-53	Fire (Roasterie)	EX J-54	87	6.0	130.0	25	0.28
EX P-47(2)	J-20	FH-1	9	8.0	130.0	0	0.00
EX P-47(1)	EX J-50	J-20	19	8.0	130.0	0	0.00
EX P-45	FH-1	EX J-40	46	8.0	130.0	0	0.00
EX P-39	EX J-40	FH-2	103	8.0	130.0	0	0.00
EX P-37	FH-2	Domestic (Villas and Bungalows)	27	8.0	130.0	0	0.00
EX P-35(2)	Domestic (Conference Center)	EX J-34	5	8.0	130.0	-275	1.75
EX P-35(1)	Domestic (Villas and Bungalows)	Domestic (Conference Center)	5	8.0	130.0	-53	0.34
EX P-33	EX J-34	EX J-30	63	8.0	130.0	-250	1.59
EX P-25	EX J-30	EX J-20	43	8.0	130.0	-250	1.59
EX P-15	EX J-20	EX J-10	80	8.0	130.0	-250	1.59

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Peak Hour Demand

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
Domestic (Conference Center)	1,553.33	402	66	1,705.07	151.73
Domestic (Guest Room)	1,550.00	336	68	1,706.48	156.48
Domestic (Italian)	1,556.30	173	65	1,705.93	149.63
Domestic (Roasterie)	1,560.25	114	63	1,705.10	144.85
Domestic (Villas and Bungalows)	1,553.30	94	66	1,705.07	151.76
EX FH-1 (TEST 1)	1,547.30	0	69	1,706.68	159.38
EX FH-2	1,542.85	0	71	1,706.54	163.69
EX FH-3 (FLOW 1)	1,550.00	0	68	1,706.12	156.12
EX FH-4	1,557.29	0	64	1,705.93	148.64
EX FH-5	1,558.03	0	64	1,705.93	147.90
EX FH-6 (TEST 2)	1,559.33	0	63	1,705.93	146.60
EX FH-7 (FLOW 2)	1,556.86	0	64	1,705.93	149.07
EX FH-10	1,563.50	0	62	1,705.93	142.43
EX FH-11	1,557.90	0	64	1,705.93	148.03
EX FH-12	1,552.10	0	66	1,705.07	152.97
EX J-10	1,552.00	0	67	1,705.97	153.97
EX J-20	1,553.00	0	66	1,705.59	152.59
EX J-30	1,553.00	0	66	1,705.39	152.39
EX J-34	1,553.36	0	66	1,705.09	151.73
EX J-40	1,552.55	0	66	1,705.07	152.52
EX J-50	1,552.03	0	66	1,705.07	153.04
EX J-54	1,555.20	0	65	1,705.09	149.89
EX J-70	1,542.85	0	71	1,706.58	163.73
EX J-80	1,542.85	0	71	1,706.65	163.80
EX J-90	1,547.00	0	69	1,706.67	159.67
EX J-100	1,550.00	0	68	1,706.13	156.13
EX J-110	1,556.50	0	65	1,705.94	149.44
EX J-120	1,556.34	0	65	1,705.93	149.59
EX J-130	1,558.03	0	64	1,705.93	147.90
EX J-140	1,560.63	0	63	1,705.93	145.30
EX J-141	1,563.47	0	62	1,705.93	142.46
EX J-150	1,557.41	0	64	1,705.93	148.52
EX J-160	1,554.89	0	65	1,705.93	151.04
EX J-170	1,558.93	0	64	1,705.93	147.00
EX J-190	1,556.35	0	65	1,705.93	149.58
EX J-194	1,556.60	0	65	1,705.93	149.34
FH-1	1,552.65	0	66	1,705.07	152.42
FH-2	1,553.15	0	66	1,705.07	151.92
FH-3	1,556.46	0	65	1,705.94	149.48
FH-4	1,556.42	0	65	1,705.94	149.51
FH-5	1,556.39	0	65	1,705.93	149.55
FH-6	1,556.95	0	64	1,705.93	148.98
FH-7	1,557.87	0	64	1,705.55	147.68
FH-8	1,552.10	0	66	1,705.07	152.97
Fire (Conf. Center)	1,556.46	0	65	1,705.94	149.48
Fire (Garage)	1,554.70	0	65	1,705.93	151.23

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Junction Table

Active Scenario: Peak Hour Demand

Label	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)	Pressure Head (ft)
Fire (Guest Room)	1,550.00	0	68	1,706.47	156.47
Fire (Italian)	1,556.30	0	65	1,705.93	149.62
Fire (Roasterie)	1,559.64	0	63	1,705.10	145.46
Fire (Villas and Bungalows)	1,553.13	0	66	1,705.09	151.96
J-10	1,550.14	0	67	1,705.09	154.95
J-20	1,552.46	0	66	1,705.07	152.61
J-66	1,556.22	0	65	1,705.93	149.71

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Pipe Table

Active Scenario: Peak Hour Demand

Label	Start Node	Stop Node	Length (ft)	Diameter (in)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)
EX P-15	EX J-20	EX J-10	80	8.0	130.0	-481	3.07
EX P-25	EX J-30	EX J-20	43	8.0	130.0	-481	3.07
EX P-33	EX J-34	EX J-30	63	8.0	130.0	-481	3.07
EX P-35(1)	Domestic (Villas and Bungalows)	Domestic (Conference Center)	5	8.0	130.0	-94	0.60
EX P-35(2)	Domestic (Conference Center)	EX J-34	5	8.0	130.0	-495	3.16
EX P-37	FH-2	Domestic (Villas and Bungalows)	27	8.0	130.0	0	0.00
EX P-39	EX J-40	FH-2	103	8.0	130.0	0	0.00
EX P-45	FH-1	EX J-40	46	8.0	130.0	0	0.00
EX P-47(1)	EX J-50	J-20	19	8.0	130.0	0	0.00
EX P-47(2)	J-20	FH-1	9	8.0	130.0	0	0.00
EX P-51	EX J-54	EX J-50	217	6.0	130.0	(N/A)	(N/A)
EX P-53	Fire (Roasterie)	EX J-54	87	6.0	130.0	14	0.16
EX P-55	Domestic (Roasterie)	Fire (Roasterie)	12	6.0	130.0	14	0.16
EX P-57(1)	EX FH-2	FH-7	603	6.0	130.0	128	1.46
EX P-57(2)	FH-7	Domestic (Roasterie)	272	6.0	130.0	128	1.46
EX P-58	EX J-50	EX FH-12	89	8.0	130.0	0	0.00
EX P-59	EX FH-12	FH-8	37	8.0	130.0	0	0.00
EX P-65	EX J-70	EX FH-2	22	6.0	130.0	128	1.46
EX P-75	EX J-80	EX J-70	46	6.0	130.0	128	1.46
EX P-85	EX J-90	EX J-80	323	12.0	130.0	128	0.36
EX P-93	EX FH-1 (TEST 1)	EX J-90	87	12.0	130.0	128	0.36
EX P-95	Domestic (Guest Room)	EX FH-1 (TEST 1)	81	12.0	130.0	-991	2.81
EX P-97	Fire (Guest Room)	Domestic (Guest Room)	6	12.0	130.0	-654	1.86
EX P-99	EX J-100	Fire (Guest Room)	294	12.0	130.0	-654	1.86
EX P-105	EX FH-3 (FLOW 1)	EX J-100	10	12.0	130.0	-654	1.86
EX P-107	EX J-10	EX FH-3 (FLOW 1)	133	12.0	130.0	-654	1.86
EX P-109	EX J-110	EX J-10	231	12.0	130.0	-173	0.49
EX P-113	Domestic (Italian)	EX J-110	171	12.0	130.0	-157	0.44
EX P-115	Fire (Italian)	Domestic (Italian)	13	12.0	130.0	17	0.05
EX P-117	EX J-120	Fire (Italian)	130	12.0	130.0	17	0.05
EX P-125	EX FH-4	EX J-120	245	12.0	130.0	17	0.05
EX P-127	EX FH-5	EX FH-4	190	12.0	130.0	17	0.05
EX P-129	EX J-130	EX FH-5	9	12.0	130.0	17	0.05
EX P-135	EX J-140	EX J-130	649	12.0	130.0	17	0.05
EX P-145	EX J-141	EX J-140	403	12.0	130.0	2	0.01
EX P-147	EX FH-10	EX J-141	91	6.0	130.0	2	0.02
EX P-147(1)	EX J-150	EX FH-10	802	6.0	130.0	2	0.02
EX P-155	Fire (Garage)	EX J-150	268	12.0	130.0	2	0.01
EX P-157	EX J-160	Fire (Garage)	189	12.0	130.0	2	0.01
EX P-165	EX J-160	EX J-170	191	12.0	130.0	15	0.04

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

FlexTable: Pipe Table

Active Scenario: Peak Hour Demand

Label	Start Node	Stop Node	Length (ft)	Diameter (in)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)
EX P-175	EX J-170	EX FH-6 (TEST 2)	67	12.0	130.0	15	0.04
EX P-177	EX FH-6 (TEST 2)	EX J-140	221	12.0	130.0	15	0.04
EX P-191	EX J-160	EX FH-7 (FLOW 2)	93	8.0	130.0	-17	0.11
EX P-193	EX FH-7 (FLOW 2)	EX J-194	50	8.0	130.0	-17	0.11
EX P-195	EX J-194	EX J-190	47	8.0	130.0	(N/A)	(N/A)
EX P-197	EX FH-8	EX J-190	125	8.0	130.0	(N/A)	(N/A)
EX P-199	EX FH-9	EX FH-8	275	8.0	130.0	(N/A)	(N/A)
EX P-203	EX J-200	EX FH-9	127	8.0	130.0	(N/A)	(N/A)
EX P-205	EX J-40	EX J-200	149	8.0	130.0	(N/A)	(N/A)
P-5	J-10	EX J-34	333	8.0	130.0	14	0.09
P-15	Fire (Villas and Bungalows)	J-10	106	8.0	130.0	14	0.09
P-17	EX J-54	Fire (Villas and Bungalows)	73	8.0	130.0	14	0.09
P-21	EX J-194	J-66	44	8.0	130.0	-17	0.11
P-23	J-66	EX J-190	16	8.0	130.0	-17	0.11
P-25	FH-5	EX J-190	267	8.0	130.0	17	0.11
P-27	FH-4	FH-5	243	8.0	130.0	17	0.11
P-29	Fire (Conf. Center)	FH-4	222	8.0	130.0	17	0.11
P-31	FH-3	Fire (Conf. Center)	51	8.0	130.0	17	0.11
P-50	FH-3	EX J-110	302	8.0	130.0	-17	0.11
P-55	FH-6	J-66	125	8.0	130.0	0	0.00
P-EX FH-11	EX J-150	EX FH-11	23	12.0	130.0	0	0.00
P-PMP-1	PMP-1	EX FH-1 (TEST 1)	1	48.0	130.0	1,119	0.20
P-PMP-2	PMP-2	EX FH-6 (TEST 2)	1	48.0	130.0	(N/A)	(N/A)
P-R-1	R-1	PMP-1	1	48.0	130.0	1,119	0.20
P-R-2	R-2	PMP-2	1	48.0	130.0	(N/A)	(N/A)

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

Fire Flow Node FlexTable: Fire Flow Results Table

Active Scenario: Conference Center (Model 1)

Label	Elevation (ft)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Hydraulic Grade (ft)
J-66	1,556.22	1,625	2,739	30	30	1,711.63
J-20	1,552.46	1,625	2,560	30	30	1,711.37
J-10	1,550.14	1,625	2,573	30	32	1,711.39
Fire (Villas and Bungalows)	1,553.13	1,625	2,488	30	31	1,711.39
Fire (Roasterie)	1,559.64	1,625	2,223	30	30	1,711.40
Fire (Italian)	1,556.30	1,625	3,048	30	33	1,711.63
Fire (Guest Room)	1,550.00	1,625	3,511	30	36	1,711.76
Fire (Garage)	1,554.70	1,625	2,781	30	32	1,711.63
Fire (Conf. Center)	1,556.46	1,625	2,793	30	30	1,711.63
FH-8	1,552.10	1,625	2,341	30	30	1,711.37
FH-7	1,557.87	1,625	2,075	30	30	1,711.52
FH-6	1,556.95	1,625	2,494	30	30	1,711.63
FH-5	1,556.39	1,625	2,682	30	30	1,711.63
FH-4	1,556.42	1,625	2,703	30	30	1,711.63
FH-3	1,556.46	1,625	2,827	30	30	1,711.63
FH-2	1,553.15	1,625	2,885	30	30	1,711.37
FH-1	1,552.65	1,625	2,573	30	30	1,711.37
EX J-194	1,556.60	1,625	2,767	30	30	1,711.63
EX J-190	1,556.35	1,625	2,743	30	30	1,711.63
EX J-170	1,558.93	1,625	2,784	30	31	1,711.63
EX J-160	1,554.89	1,625	2,788	30	32	1,711.63
EX J-150	1,557.41	1,625	2,726	30	30	1,711.63
EX J-141	1,563.47	1,625	2,665	30	30	1,711.63
EX J-140	1,560.63	1,625	2,776	30	31	1,711.63
EX J-130	1,558.03	1,625	2,901	30	32	1,711.63
EX J-120	1,556.34	1,625	3,010	30	33	1,711.63
EX J-110	1,556.50	1,625	3,115	30	33	1,711.64
EX J-100	1,550.00	1,625	3,320	30	36	1,711.68
EX J-90	1,547.00	1,625	3,578	30	36	1,711.82
EX J-80	1,542.85	1,625	3,571	30	35	1,711.81
EX J-70	1,542.85	1,625	3,308	30	30	1,711.79
EX J-54	1,555.20	1,625	2,434	30	31	1,711.39
EX J-50	1,552.03	1,625	2,533	30	30	1,711.37
EX J-40	1,552.55	1,625	2,661	30	30	1,711.37
EX J-34	1,553.36	1,625	2,947	30	31	1,711.38
EX J-30	1,553.00	1,625	3,065	30	31	1,711.47
EX J-20	1,553.00	1,625	3,159	30	32	1,711.53
EX J-10	1,552.00	1,625	3,242	30	35	1,711.64
EX FH-12	1,552.10	1,625	2,393	30	30	1,711.37
EX FH-11	1,557.90	1,625	2,719	30	30	1,711.63
EX FH-10	1,563.50	1,625	2,292	30	30	1,711.63
EX FH-7 (FLOW 2)	1,556.86	1,625	2,790	30	30	1,711.63
EX FH-6 (TEST 2)	1,559.33	1,625	2,782	30	31	1,711.63
EX FH-5	1,558.03	1,625	2,903	30	32	1,711.63
EX FH-4	1,557.29	1,625	2,946	30	32	1,711.63
EX FH-3 (FLOW 1)	1,550.00	1,625	3,314	30	36	1,711.68
EX FH-2	1,542.85	1,625	3,169	30	30	1,711.78

Fairmont Scottsdale Princess Water Master Plan - WaterCAD

Fire Flow Node FlexTable: Fire Flow Results Table

Active Scenario: Conference Center (Model 1)

Label	Elevation (ft)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Hydraulic Grade (ft)
EX FH-1 (TEST 1)	1,547.30	1,625	3,583	30	37	1,711.82
Domestic (Villas and Bungalows)	1,553.30	1,678	3,000	30	30	1,711.37
Domestic (Roasterie)	1,560.25	1,663	2,236	30	30	1,711.40
Domestic (Italian)	1,556.30	1,683	3,110	30	33	1,711.63
Domestic (Guest Room)	1,550.00	1,817	3,707	30	36	1,711.76
Domestic (Conference Center)	1,553.33	1,846	3,168	30	30	1,711.37

APPENDIX E – CITY OF SCOTTSDALE DEVELOPMENT WATER DEMAND EXHIBIT

INSTRUCTIONS

INPUT DEVELOPMENT NAME, CASE NUMBER, AND QUANTITY VALUES TO DETERMINE TOTAL AVERAGE DAILY WATER USE PER THE 2018 DESIGN STANDARDS AND POLICY MANUAL (DS7PM) CHAPTER 6 USING GALLONS PER DAY (GPD) VALUES FROM FIGURE 6-1.2

TABLE 1: QUANTITY INPUT TABLE FOR THE DEVELOPMENT

FAIRMONT SCOTTSDALE PRINCESS

WATER USE DEVELOPMENT TYPE/CATEGORY	AVERAGE UNIT WATER USE PER DS&PM CH. 6 (GPD/UNIT)	INPUT APPLICABLE QUANTITY FOR DEVELOPMENT IN THIS COLUMN	NUMERICAL UNIT	TOTAL AVERAGE WATER USE (GPD)	NOTES
Category: Residential/ Commerical Residential/ Hotel					
< 2 DU/ac	485.6	-	DU	-	Community pool demands not included here. Refer to separate category.
2 – 2.9 DU/ac	470.4	-	DU	-	
3 – 7.9 DU/ac	248.2	-	DU	-	
8 – 11.9 DU/ac	227.6	-	DU	-	
12 – 22 DU/ac	227.6	-	DU	-	
High Density Condominium (condo)	185.3	-	DU	-	
Resort Hotel	446.3	**198**	ROOM	88,367	Includes site amenities such as 1 "standard" restaurant w/ associated dedicated kitchen, laundry service, landscaping, fountains, and 1 medium capacity pool. Large event venues/kitchens or multiple/large pools and multiple restaurants are not included.
Category: Commerical/ Other					
Restaurant	1.3	**29,719**	FT2	38,635	
Commercial/Retail	0.80	**94,357**	FT2	75,486	
Commerical High Rise	0.60	-	FT2	-	per IBC highrise is at or over 75 feet to highest finished floor
Office	0.60	-	FT2	-	
Institutional	1,340	-	ACRE	-	
Industrial	1,027	-	ACRE	-	
Research and Development	1,284	-	ACRE	-	
Category: Special Use Areas					
Natural Area Open Space	-		ACRE	-	Zero water demand
Developed Open Space - Parks	1,786	-	ACRE	-	
Developed Open Space- Golf Course	4,285	-	ACRE	-	
Category: Evaporation from Swimming Pools/Spas, Cooling, Turf Area Irrigation, Other Outdoor Consumptive Uses					
Extra large pool (60k to 100k gallons)	274	-	EA	-	Annual mean ETo = 74.75 in as collected by AZ Met. Kc = 1.1. Average pool size of 400 sq. ft. loses 20,490 gallons per year, or 51.23 gallons per sq ft, not including backwashing or leaks, per AMWUA calculator.
Large pool (above 30k to 60k gallons)	154	-	EA	-	
Medium pool (15k to 30k gallons)	75	-	EA	-	
Small pool or spa (under 15k gallons)	51	**3**	EA	154	
Total Bermuda Turf Area	0.10	**4,885**	FT2	468	1 sq ft of non-overseeded turf at 60% efficiency with increased Kc is 35 gallons per sq ft per year, per AMWUA calculator.
Total Overseeded Turf Area	0.02	-	FT2	-	1 sq ft of overseeded turf at 60% efficiency with increased Kc is 9 gallons per sq ft per year, per AMWUA calculator.
Evaporative Cooling/ Cooling Towers	-	-	TOTAL COOLING TONNAGE	-	Baed on 1.50 cycles of concentration and average annual daily utilization of 68%. Water use is linear with respect to total cooling capacity tonnage. Based on US Dept of Energy Efficiency and Renewable Energy data.
Category: Filter Backwash Flows & Make-up Water from Pools & Spas (rapid sand filters)					
Extra large pool (60k to 100k gallons)	229	-	EA	-	Based on once per 7 day backwash @ 50,100, and 150gpm, respectively for each size pool category for 8 minute duration. Quantity values used from pool input values above.
Large pool (above 30k to 60k gallons)	171	-	EA	-	
Medium pool (15k to 30k gallons)	114	-	EA	-	
Small pool or spa (under 15k gallons)	57	**3**	EA	171	
A. TOTAL AVERAGE DAILY WATER USE FOR THIS DEVELOPMENT				**203,282**	GPD

NOTES:

GPD=GALLONS PER DAY, DU=DWELLING UNITS, FT2=SQUARE FEET, AC=ACRE, EA=EACH UNIT, ETo=EVAPOTRANSPIRATION, Kc=CROP COEFFICIENT, AZMET=ARIZONA METEOROLOGICAL NETWORK, AMWUA=ARIZONA MUNICIPAL WATER USERS ASSOCIATION

NONE OF THE VALUES OR CALCULATIONS HEREIN ARE INTENDED TO BE USED FOR INFRASTRUCTURE DESIGN, PEAK FLOW DETERMINATION, OR SYSTEM CAPACITY ANALYSIS. FOR THESE PURPOSES REFER TO CH.6 & 7 OF THE CITY'S DESIGN STANDARDS AND POLICY MANUAL FOR THE RESPECTIVE DESIGN VALUES AND PEAKING FACTORS.

TABLE INPUT VALUES LAST UPDATED: 11/29/2023

INSTRUCTIONS

IDENTIFY WATER CONSERVATION MEASURES ABOVE THOSE REQUIRED BY CITY CODE THAT THE DEVELOPMENT(S) PROPOSE TO IMPLEMENT. ENTER AN "X" FOR EACH PROPOSED MEASURE.

TABLE 2: APPROVED SUPPLEMENTAL WATER CONSERVATION MEASURES

FAIRMONT SCOTTSDALE PRINCESS

PROPOSED FOR THIS DEVELOPMENT (ENTER "X")	MEASURE	DESCRIPTION
	1. Submetering	Multi-family and mixed-use developments SUBMETER UNITS for leak detection and for occupants ability to manage their own water use
	2. No outdoor water features	Decorative water features outdoors can be a source of water use that is not functional
	3. Indoor water features submetered	Water features have proven to be a source of leaks. Submetering that is capable of alerts to the building monitoring system greatly reduce water waste
x	4. Limitation on functional turf grass	Functional grass turf are areas used for congregation of large number of people and should be limited to up to 10% of the landscapable area
	5. Limitations on artificial turf	Artificial turf is a large source of heat especially during summer months.
	6. Landscaped Rainwater harvesting	Earthworks, such as berms and basins, are encouraged to promote passive rainwater harvesting for planned plants and trees
	7. Cooling tower controllers with monitoring technology	Arizona high evapotranspiration rates, cooling towers use significantly more water here than in other states. Monitory systems can optimize this water use.
	8. Pools and splashpads submeters with monitoring technology	Pools and splashpad can be a source of leaks. Submetering that is capable of alerts to the building monitoring system greatly reduce water waste. Timers on Splash pads

NOTES:

Greywater systems and large areas of artificial turf are not recommended by water conservation.

This list represents water conservation measures that the conservation office has approved and has shown to provide proven water savings.

TABLE INPUT VALUES LAST UPDATED: 11/29/2023

Water Demand Exhibit Summary

FAIRMONT SCOTTSDALE PRINCESS

1. Total Estimated Water Use per Day on a Sustainable Basis (gallons per day, gpd)

203,282 gpd

2. Net Water (NW) / Consumptive Use (gallons per day, gpd)

41,698 gpd

3. Proposed Water Conservation Measures Above Those Required By City Code

	1. Submetering	NOT PROPOSED
	2. No outdoor water features	NOT PROPOSED
	3. Indoor water features submetered	NOT PROPOSED
X	4. Limitation on functional turf grass	Functional grass turf are areas used for congregation of large number of people and should be limited to up to 10% of the landscapable area
	5. Limitations on artificial turf	NOT PROPOSED
	6. Landscaped Rainwater harvesting	NOT PROPOSED
	7. Cooling tower controllers with monitoring technology	NOT PROPOSED
	8. Pools and splashpads submeters with monitoring technology	NOT PROPOSED

4. Annual Economic Value of the Development on a per Gallon of Use Basis (Applies to Commercial or Mixed Use, To be Completed by City)

1. Major City Revenues $/1,000 gallons
2. Total Annual Output Impact $/1,000 gallons

TABLE INPUT VALUES LAST UPDATED: 11/29/2023

TABLE 4: WATER USE SUMMARY

FAIRMONT SCOTTSDALE PRINCESS

WATER USE SUMMARY FOR THE DEVELOPMENT

USE CATEGORY	AMOUNT	UNITS	% OF TOTAL USE	CALCULATION NOTES
A. TOTAL DAILY AVERAGE WATER USE	**203,282**	**GPD**	**100.0%**	A=B+C, C=D+E, F=B+D
B. OUTDOOR CONSUMPTIVE USE	21,861	GPD	10.8%	
C. TOTAL INDOOR USE	181,421	GPD	89.2%	
D. INDOOR CONSUMPTIVE USE	19,837	GPD	9.8%	
E. WASTEWATER TO SEWER	161,584	GPD	79.5%	
F. TOTAL CONSUMPTIVE USE (NET USE)	41,698	GPD	20.5%	

NOTES:
GPD=GALLONS PER DAY
ALL VALUES ARE FOR AVERAGE WATER USE ANALYSIS ONLY. THIS CALCULATION IS NOT INTENDED TO BE USED FOR INFRASTRUCTURE DESIGN, PEAK FLOW DETERMINATION, OR SYSTEM CAPACITY ANALYSIS. FOR THESE PURPOSES REFER TO CH.6 & 7 OF THE CITY'S DESIGN STANDARDS AND POLICY MANUAL FOR THE RESPECTIVE DESIGN VALUES, PEAKING FACTORS, AND DESIGN REQUIREMENTS.

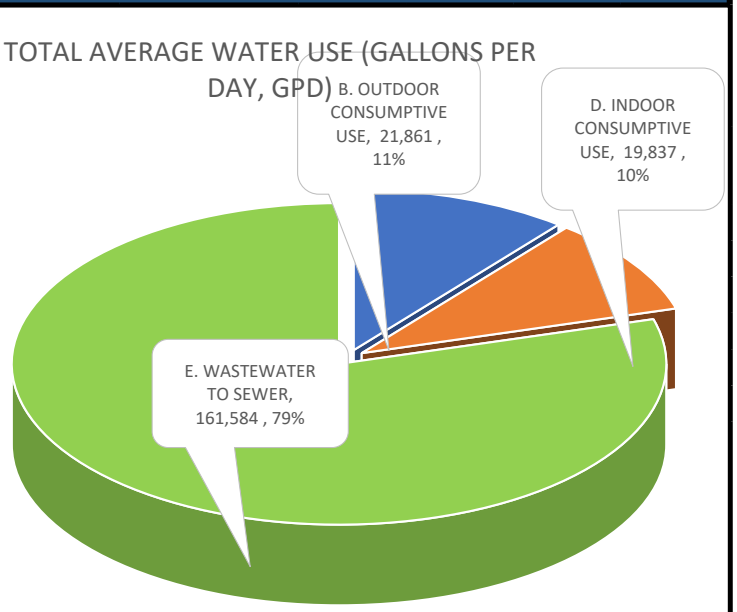


TABLE INPUT VALUES LAST UPDATED: 11/29/2023

TABLE 5: DETAILED WATER USE BREAKDOWN FOR THE DEVELOPMENT

FAIRMONT SCOTTSDALE PRINCESS

TO RIGHT:WATER USE ALLOCATION--->	A. TOTAL AVERAGE WATER USE (GPD)	B. AVERAGE OUTDOOR CONSUMPTIVE WATER USE[1]			C. AVERAGE INDOOR TOTAL WATER USE[1]			D. AVERAGE INDOOR CONSUMPTIVE WATER USE[2]			E. AVERAGE WASTEWATER FLOWS TO SEWER[3]		
BELOW: WATER USE DEVELOPMENT TYPE/CATEGORY		UNIT OUTDOOR CONSUMPTIVE WATER USE (GPD/UNIT)	OUTDOOR CONSUMPTIVE USE (GPD)	OUTDOOR CONSUMPTIVE USE (% OF TOTAL USE)	UNIT TOTAL INDOOR WATER USE (GPD/UNIT)	INDOOR TOTAL USE (GPD)	INDOOR TOTAL USE (% OF TOTAL USE)	UNIT CONSUMPTIVE INDOOR WATER USE (GPD/UNIT)	INDOOR CONSUMPTIVE USE (GPD)	INDOOR CONSUMPTIVE USE (% OF TOTAL USE)	WASTEWATER FLOW (GPD/UNIT)	WASTEWATER FLOW (GPD)	WASTEWATER (% OF TOTAL USE)
Category: Residential/ Commerical Residential/ Hotel													
< 2 DU/ac)	-	276.7	-	0.0%	208.9	-	0.0%	20.9	-	0.0%	188	-	0.0%
2 – 2.9 DU/ac	-	276.7	-	0.0%	193.7	-	0.0%	19.4	-	0.0%	174	-	0.0%
3 – 7.9 DU/ac	-	72.3	-	0.0%	175.9	-	0.0%	17.6	-	0.0%	158	-	0.0%
8 – 11.9 DU/ac	-	72.3	-	0.0%	155.3	-	0.0%	15.5	-	0.0%	140	-	0.0%
12 – 22 DU/ac	-	72.3	-	0.0%	155.3	-	0.0%	15.5	-	0.0%	140	-	0.0%
High Density Condominium (condo)	-	30.0	-	0.0%	155.3	-	0.0%	15.5	-	0.0%	140	-	0.0%
Resort Hotel	88,367	44.6	8,831	4.3%	401.7	79,536.6	39.1%	32.1	6,362.9	3.1%	370	73,174	36.0%
Category: Commerical/ Other													
Restaurant	38,635	0.10	2,972	1.5%	1.20	35,662.8	17.5%	0.12	3,566.3	1.8%	1.08	32,097	15.8%
Commercial/Retail	75,486	0.10	9,436	4.6%	0.70	66,049.9	32.5%	0.11	9,907.5	4.9%	0.60	56,142	27.6%
Commerical High Rise	-	0.10	-	0.0%	0.50	-	0.0%	0.05	-	0.0%	0.45	-	0.0%
Office	-	0.10	-	0.0%	0.50	-	0.0%	0.05	-	0.0%	0.45	-	0.0%
Institutional	-	670	-	0.0%	670.0	-	0.0%	100.50	-	0.0%	569.50	-	0.0%
Industrial	-	154	-	0.0%	873.0	-	0.0%	130.95	-	0.0%	742.05	-	0.0%
Research and Development	-	192	-	0.0%	1,092.0	-	0.0%	163.80	-	0.0%	928.20	-	0.0%
Category: Special Use Areas													
Natural Area Open Space	-	-	-	0.0%							-	-	0.0%
Developed Open Space - Parks	-	1,786	-	0.0%							-	-	0.0%
Developed Open Space- Golf Course	-	4,285	-	0.0%							-	-	0.0%
Category: Evaporation from Swimming Pools/Spas, Cooling, Turf Area Irrigation, Other Outdoor Consumptive Uses													
Extra large pool (60k to 100k gallons)	-	274	-	0.0%							-	-	0.0%
Large pool (above 30k to 60k gallons)	-	154	-	0.0%							-	-	0.0%
Medium pool (15k to 30k gallons)	-	75	-	0.0%							-	-	0.0%
Small pool or spa (under 15k gallons)	154	51	154	0.1%							-	-	0.0%
Total Bermuda Turf Area	468	0.10	468	0.2%							-	-	0.0%
Total Overseeded Turf Area	-	0.02	-	0.0%							-	-	0.0%
Evaporative Cooling/ Cooling Towers	-	-	-	0.0%							-	-	0.0%
Category: Filter Backwash Flows & Make-up Water from Pools & Spas (rapid sand filters)													
Extra large pool (60k to 100k gallons)	-				228.6	-	0.0%				229	-	0.0%
Large pool (above 30k to 60k gallons)	-				171.4	-	0.0%				171	-	0.0%
Medium pool (15k to 30k gallons)	-				114.3	-	0.0%				114	-	0.0%
Small pool or spa (under 15k gallons)	171				57.1	171.4	0.1%				57	171	0.1%
TOTALS	**203,282**		**21,861**	**10.8%**		**181,421**	**89.2%**		**19,837**	**9.8%**		**161,584**	**79.5%**

F. TOTAL CONSUMPTIVE/NET WATER USE FOR THIS DEVELOPMENT (B. + D.) **41,698 GPD** **20.5% OF TOTAL USE**

NOTES:

(1) PER 2018 DS&PM CHAPTER 6, FIGURE 6-1.2

(2) VARIES FROM 8% TO 15%, TYPICALLY 10%

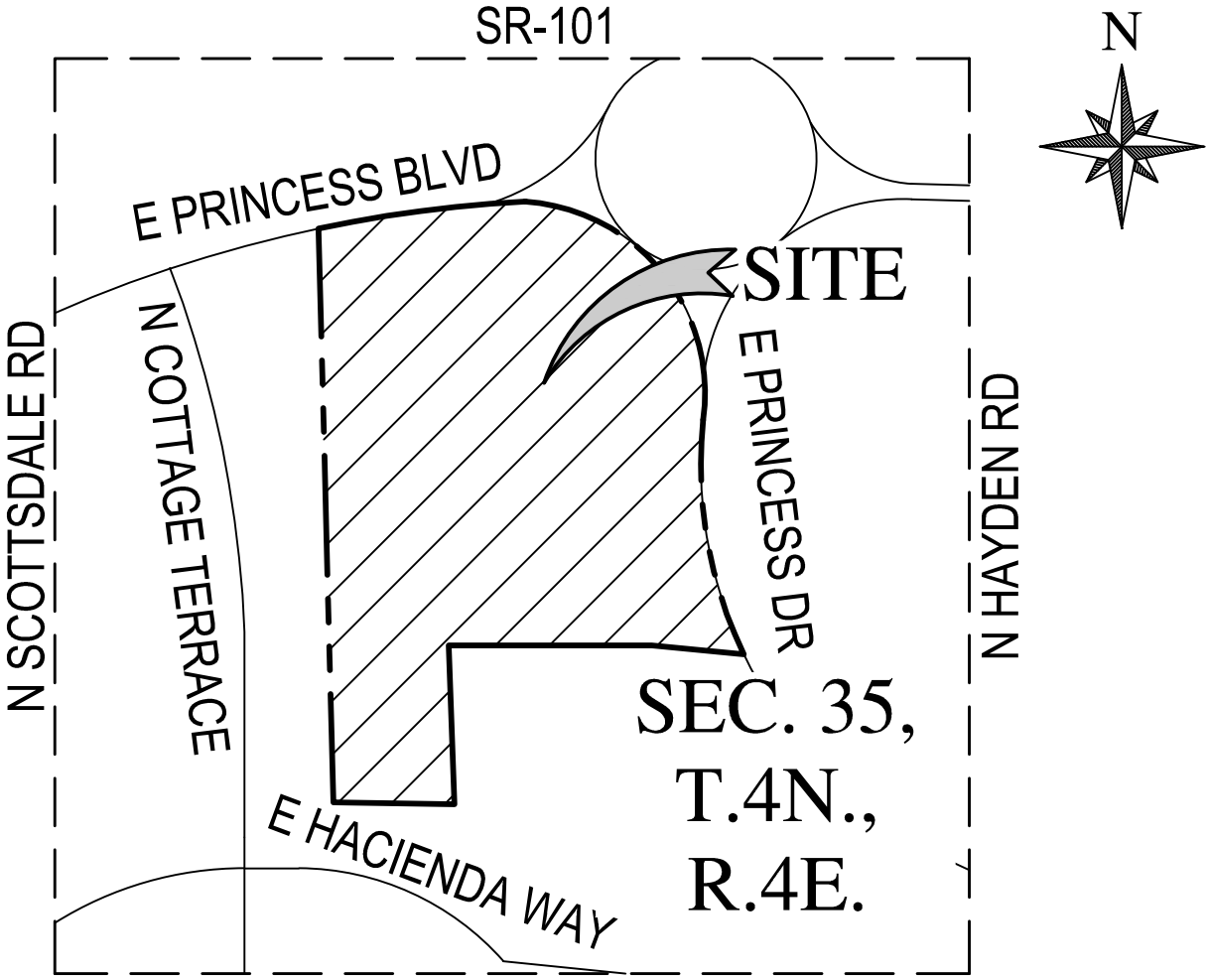
(3) WASTEWATER FLOWS TO SEWER ARE CALCULATED AS C. MINUS D.

GPD=GALLONS PER DAY, DU=DWELLING UNIT, FT2=SQUARE FEET, AC=ACRE, EA=EACH UNIT

NONE OF THE VALUES OR CALCULATIONS HEREIN ARE INTENDED TO BE USED FOR INFRASTRUCTURE DESIGN, PEAK FLOW DETERMINATION, OR SYSTEM CAPACITY ANALYSIS. FOR THESE PURPOSES REFER TO CH.6 & 7 OF THE CITY'S DESIGN STANDARDS AND POLICY MANUAL FOR THE RESPECTIVE DESIGN VALUES AND PEAKING FACTORS.

TABLE INPUT VALUES LAST UPDATED: 11/29/2023

EXHIBIT 1 – VICINITY MAP



VICINITY MAP

N.T.S.

NOT
FOR
CONSTRUCTION
OR RECORDING

WOOD PATEL

FAIRMONT SCOTTSDALE PRINCESS

CONFERENCE CENTER & EVENT LAWN VICINITY MAP EXHIBIT

DATE	11/22/2023	SCALE	N.T.S	SHEET	1 OF 1
JOB NO.	215319	DESIGN	AJS	CHECK	AJS
		DRAWN	DLH	RFI #	

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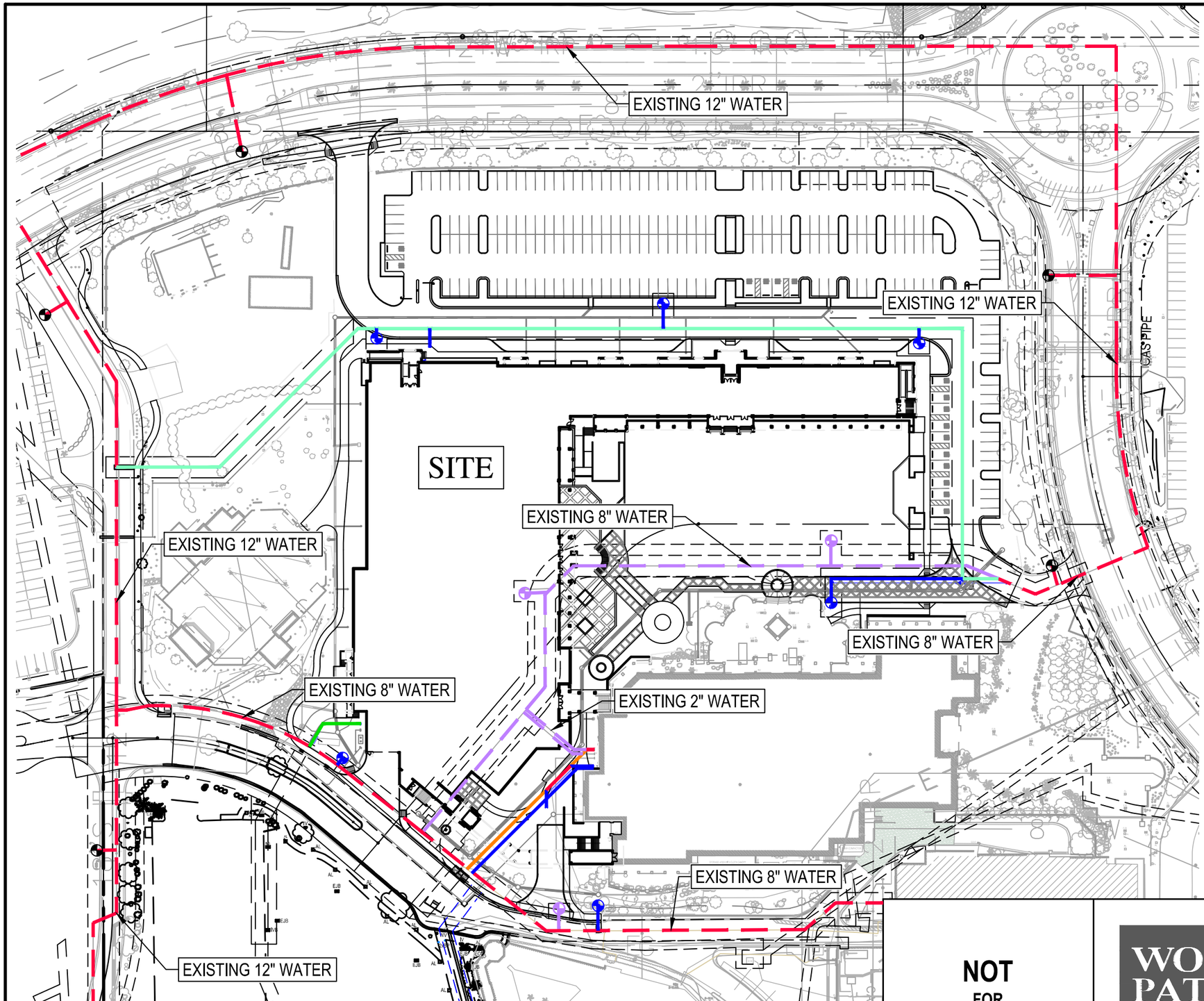
EXHIBIT 2 – WATER EXHIBIT



N

0 50 100

Horz. 1 in. = 100 ft.

LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER
- EXISTING FIRE HYDRANT TO BE REMOVED/RELOCATED
- EXISTING WATER TO BE RELOCATED
- PROPOSED FIRE HYDRANT
- PROPOSED 2" DOMESTIC SERVICE TRENCHED WITH 6" FIRE LINE TO FDC
- PROPOSED 2" DOMESTIC SERVICE
- PROPOSED 4" DOMESTIC SERVICE
- PROPOSED 6" FIRE LINE/SERVICE
- PROPOSED 8" WATER
- PROPERTY BOUNDARY

NOT FOR CONSTRUCTION OR RECORDING

WOOD PATEL

FAIRMONT SCOTTSDALE PRINCESS

CONFERENCE CENTER & EVENT LAWN WATER - EXHIBIT 2

DATE	11/22/2023	SCALE	1" = 100'	SHEET	1 OF 1
JOB NO.	215319	DESIGN	AJS	DRAWN	AJS

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