PRELIMINARY SEWER REPORT FOR

Marshall Way Mixed Use

PREPARED FOR SYNECTIC DESIGN 1111 WEST UNIVERSITY DRIVE SUITE 104 TEMPE, AZ 85281

PREPARED BY

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RBW #22048

June 30, 2022

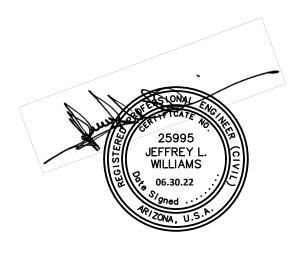
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FIGURES

FIGURE 1

VICINITY MAP



1.0 INTRODUCTION

1.1 SCOPE

The scope of this Basis of Design is to provide a basis of design analysis for the Marshall Way Mixed Use project. This new development is a mixed-use project which includes one 4-story building with 13,717 sf of commercial use on the first floor, 60 residential units on the 2nd, 3rd, and 4th floors and underground parking in the basement. The area of the site is approximately 38,189 square feet.

This report will discuss the concepts for the waste water demand relating to this project. This report will follow the design procedures outlined by the City of Scottsdale's Design Standards & Policies Manual.

1.2 LOCATION

The proposed project lies in the City of Scottsdale at the Southeast corner of N. Marshall Way and E. 3rd Avenue. This project is in Section 22, Township 2 North, Range 4 East of the Gila and Salt River Base and Meridian, Maricopa County. The approximate gross area of the site is 57,337 square feet. The site is surrounded by E. 3rd Avenue on the North, N. Marshall Way on the West, existing commercial development on the South, and an alley on the East.

See Figure 1-Vicinity Map in Appendix A.

1.3 EXISTING CONDITIONS

The site currently consists of an existing single-story commercial building, and an asphalt parking lot.

There is an existing City of Scottsdale 8 "VCP sewer main in the alley east of the project site. The 8" sewer main ties into the city's 10" sewer main in E. Indian School Road.

2.0 PROPOSED IMPROVEMENTS

The new development consists of one 4-story, mixed use structure. The first floor will contain 13,717 square feet of commercial space. The 2nd, 3rd, and 4th floors will consist of 60 residential units with parking provided in a basement parking garage.

4.0 DESIGN DEMAND

The post-construction onsite demands were calculated using the City of Scottsdale Design Standards & Policies Manual.

Per City of Scottsdale, the wastewater demand for this project will be Gallons/Day/Unit. See Tables 1 & 2 below for waste water calculations.

Table 1: 13,717 sf Commercial

Building ID	Area (sf)	Design Flow (gal/day/sf)	Peaking Factor	Peak Hour Demand (gpd)
First Floor Commercial	13,717	0.5	3	20,755

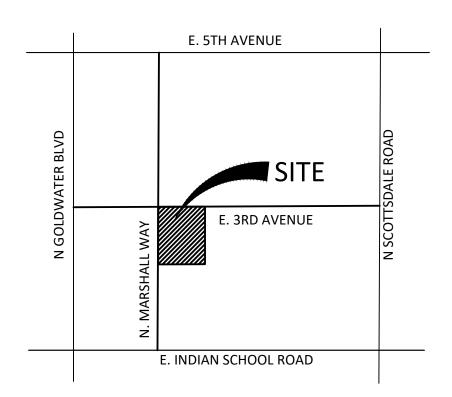
Table 2: 60 Residential Units

Building ID	Number of Units	Design Flow (gal/day/unit)	Peaking Factor	Peak Hour Demand (gpd)
Residential Units	60	140	4.5	37,800

A total waste water demand for the project is 58,550 gpd (41 gpm).

APPENDIX

VICINITY MAP
EXISTING & PROPOSED SEWER LAYOUT



VICINITY MAP

T2N, R4E, S 22 (N.T.S.)

R.B. WILLIAMS & ASSOCIATES, INC.

CONSULTING ENGINEERS

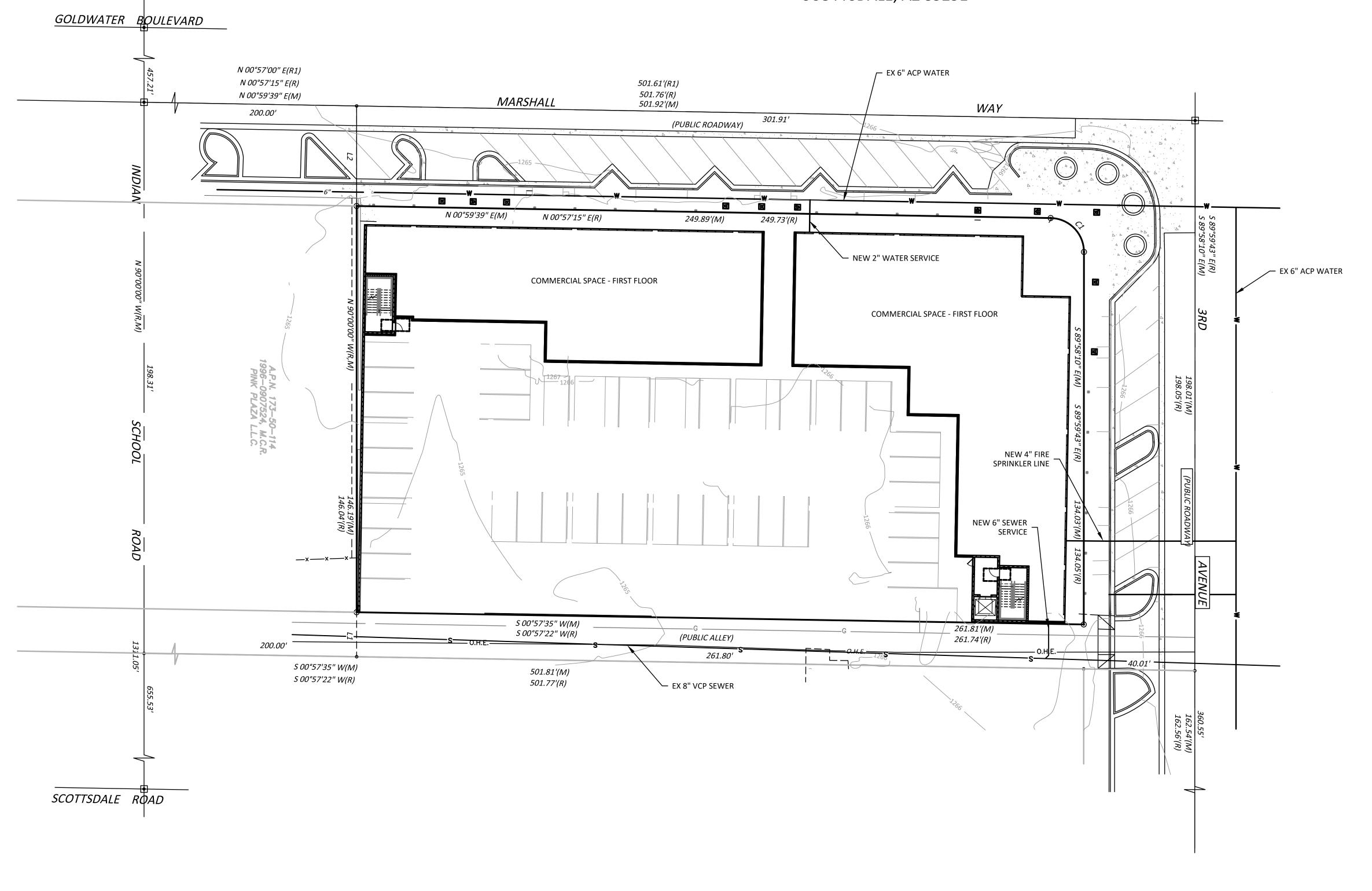
1921 S. ALMA SCHOOL ROAD, SUITE 101 PHONE: (480) 424-2352 MESA, ARIZONA 85210 FAX: (480) 424-2353

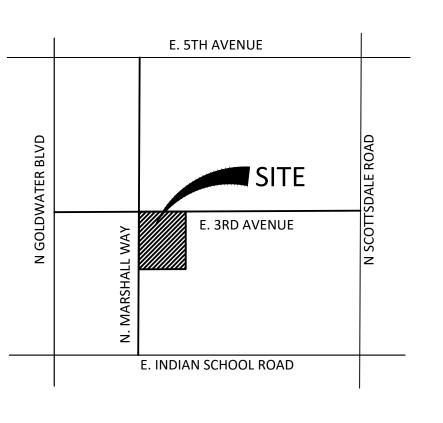


PRELIMINARY UTILITY PLAN

MARSHALL AVENUE MIXED USE DEVELOPMENT

4151 N. MARSHALL AVENUE SCOTTSDALE, AZ 85251





VICINITY MAP T2N, R4E, S 22 (N.T.S.)

ENGINEER

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ARCHITECT/DESIGNER

SYNECTIC DESIGN 1111 W. UNIVERSITY DRIVE SUITE 104 TEMPE, AZ 85281 PHONE: 480.948.9766 CONTACT: DAVE HAMBLEN

PROPERTY AREA

NET AREA: 38,189 SF GROSS AREA: 57,337 SF

BENCHMARK

FOUND NGS MONUMEN "AJ3679", BEING PID # 1DH1 ELEVATION: 1344.495 DATUM: CITY OF SCOTTSDALE NAVD 88

PROJECT DESCRIPTION

NEW 4-STORY MIXED USE PROJECT WITH 13,717 SF OF COMMERCIAL SPACE ON THE FIRST FLOOR AND 65 RESIDENTIAL UNITS ON FLOORS 2-4. PARKING WILL BE PROVIDED IN A BASEMENT PARKING GARAGE. THE SITE IS CURRENTLY A 1-STORY COMMERCIAL CENTER. THE EXISTING COMMERCIAL CENTER WILL BE DEMOLISHED PRIOR TO CONSTRUCTION OF THE NEW 4-STORY MIXED USE

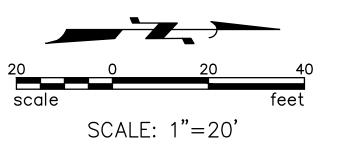
LEGAL DESCRIPTION

LOT 19, OF MARSHALL WAY PLAZA, ACCORDING TO THE PLAT OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF MARICOPA COUNTY, ARIZONA RECORDED IN BOOK 718 OF MAPS, PAGE 35.

A.P.N.: 173-50-129







VELOPMENT

ARSHALL USE DEVE

PRELIMINARY

DESIGN JLW DRAWN JLW

CHK'D HRW

22048UP01.DWG

SHEET NO.

SUB.