

APPENDIX D

FIRE HYDRANT FLOW TEST RESULTS

Arizona Flow Testing LLC

HYDRANT FLOW TEST REPORT

Project Name: One Scottsdale
Project Address: Scottsdale Rd. & Thompson Peak Pkwy., Scottsdale, Arizona 85255
Client Project No: 154391
Arizona Flow Testing Project No.: 15134
Flow Test Permit No: C48958
Date and time flow test conducted: October 30, 2015 at 7:30 AM
Data is current and reliable until: April 30, 2016
Conducted by: Floyd Vaughan-Arizona Flow Testing, LLC (480-250-8154)
Witnessed by: Larry Frandle-City of Scottsdale-Inspector (602-541-4942)

Raw Test Data

Static Pressure: **80.0 PSI**
(Measured in pounds per square inch)

Residual Pressure: **68.0 PSI**
(Measured in pounds per square inch)

Pitot Pressure: **42.0 PSI**
(Measured in pounds per square inch)

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

Coefficient of Diffuser: .90

Flowing GPM: **2,785 GPM**
(Measured in gallons per minute)

GPM @ 20 PSI: **6,641 GPM**

Data with 10 % Safety Factor

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

Residual Pressure: **60.0 PSI**
(Measured in pounds per square inch)

Distance between hydrants: 660 Feet

Main size: 12 Inch

Flowing GPM: **2,785 GPM**

GPM @ 20 PSI: **6,147 GPM**

Scottsdale requires a maximum Static Pressure of 72 PSI for AFES Design.

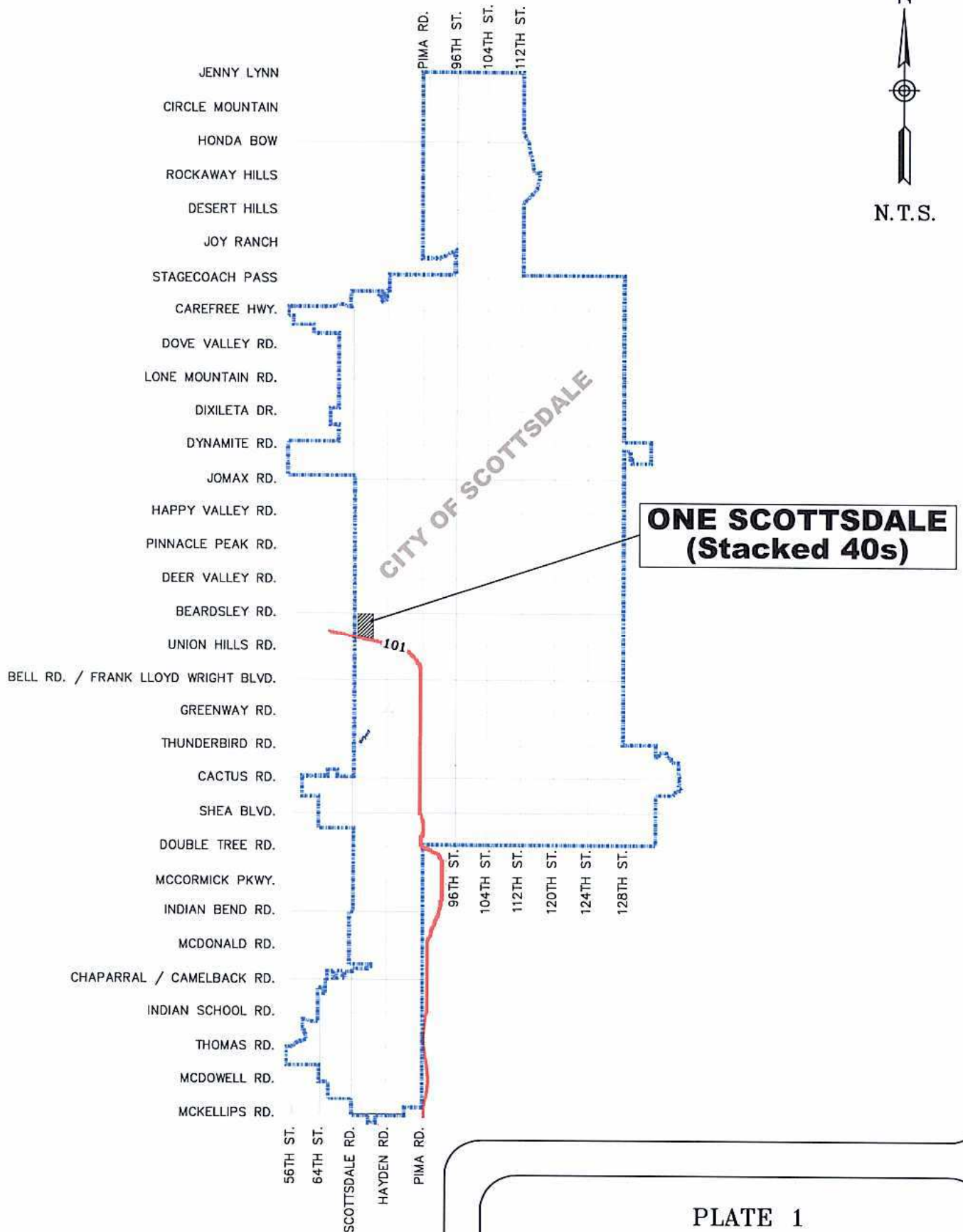
Flow Test Location

North ↑



PLATE 1

VICINITY MAP



s:\2002\021584-04\Project Support\Sewer MP\4th Submittal - TDI\Exhibits\021584-04 WASTEWATER PLATE 1_20120726.dwg

PLATE 1

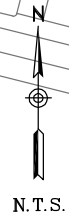
**ONE SCOTTSDALE
(Stacked 40s)
VICINITY MAP**

**WOOD/PATEL &
ASSOCIATES**
Civil Engineers
Hydrologists
Land Surveyors
Construction Managers
(602) 335-8500

PLATE 2

MODELED ON-SITE LAND USE PLAN

EAST THOMPSON PEAK PARKWAY



PLANNING
UNIT III

LEGACY BLVD

SCOTTSDALE ROAD

PLANNING
UNIT II

PLANNING
UNIT I
(NOT A PART)

OUTER LOOP 101 FREEWAY

EXISTING DIAL BUILDING

-  PHASE AREA IN PLANNING UNIT III
-  PHASE AREA IN PLANNING UNIT II
-  PLANNING UNIT LINE

PLATE 2

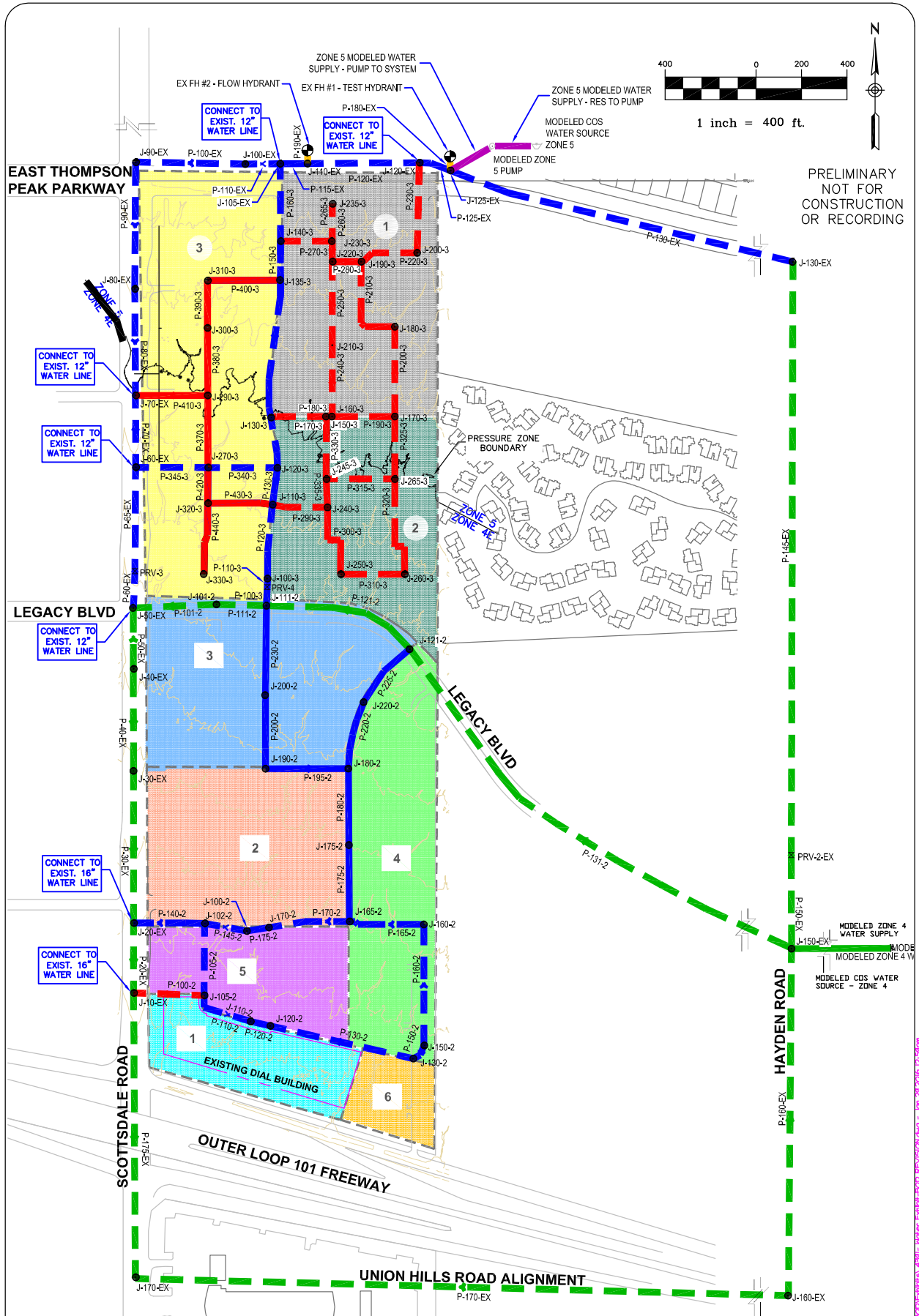
JANUARY 2016

ONE SCOTTSDALE
MODELED ON-SITE
LAND USE PLAN

WOOD/PATEL
ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
Construction Managers
(602) 955-8500

PLATE 3

MASTER ON-SITE WATER PLAN EXHIBIT



LEGEND

- JXXX-EX JUNCTION NODE ALONG EXIST. PIPE
- JXXX-2 JUNCTION NODE - PLANNING UNIT II
- JXXX-3 JUNCTION NODE - PLANNING UNIT III
- PXXX-EX EXISTING PIPE
- PXXX-2 PROPOSED PIPE - PLANNING UNIT II
- PXXX-3 PROPOSED PIPE - PLANNING UNIT III
- ⌘ PRESSURE REDUCING VALVE

DIAMETER (IN)

8
12
16

EXISTING PIPE

PROPOSED PIPE

1
2

PHASE AREA IN PLANNING UNIT III

PHASE AREA IN PLANNING UNIT II

PLATE 3
January 2016

**ONE SCOTTSDALE
MASTER ON-SITE
WATER PLAN EXHIBIT**

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