

P=2.16 (NOAA ATLAS 14) V_{REQ}=(2.16/12)*63,019*0.86=9,755 CF THE CALCULATED VOLUME DOES NOT INCLUDE RUNOFF FROM N HAI

UGR TANKS: 125 LF, 10 FT DIAMETER=> VOL=9,817 CF > 9,755 CF

AT THE TIME OF DESIGN AND DEVELOPMENT THERE IS NO EXISTING STREET STORM DRAIN SYSTEM. FUTURE IMPROVEMENTS IN THE GENERAL AREA MIGHT INCLUDE STORM DRAIN SYSTEM IN PROXIMITY TO THE PROJECT AREA. AFTER CITY REVIEWS OF THE PRELIMINARY GRADING AND DRAINAGE PLAN IT WAS PROPOSED BY THE CITY THAT THE CURRENT PROJECT INCLUDES A ON-SITE DRYWELL FOR RETENTION DISPOSAL BUT IN THE FUTURE THE RETENTION SHOULD BE CONNECTED TO A STREET STORM DRAIN SYSTEM, ONCE AVAILABLE.

OFF-SITE DRAINAGE

THIS SITE IS LOCATED IN A DEVELOPED AREA WITH E UNIVERSITY DR ALONG THE SOUTH, A DEVELOPED LOT WITH A CMU PERIMETER WALLS ALONG THE NORTH, AND N HALL ROAD ALONG THE WEST, THE EXISTING TERRAIN SLOPES FROM NORTHEAST TO SOUTHWEST DIRECTION AND TH EAST NEIGHBORING UNDEVELOPED LOT PRODUCES RUNOFF TOWARDS THIS SITE. IF REQUIRED, THIS ADDITIONAL RUNOFF CAN BE INCLUDED IN THE ON-SITE RETENTION.

FEMA FLOOD INSURANCE RATE MAP

ZONE X (DOT-HATCHED) MAP PANEL# 04013C2270M REVISION DATE: NOVEMBER 4, 2015

SEWER CONNECTION
CONNECTION TO PUBLIC SEWER TO BE DETERMINED DURING FINAL CONSTRUCTION PHASE. THERE IS ONE EXISTING SEWER STUB ALONG N HALL AND THREE ALONG

SYMBOLS LEGEND

—S— PROP SEWER LINE DRAINAGE DIRECTION

CONCRETE WALK

— PROPOSED ITEM/STRUCTURE

EXISTING ITEM/STRUCTURE EXISTING FIRE HYDRANT

(917) 526-0323 CIVIL ENGINEER NPS MARICOPA INC.

EMAIL: TIM@ATMOSARCH.COM

859 N LAFAYETTE ST MESA, AZ 85201 NPSMARICOPA@GMAIL.COM (480) 201-5476

) CONSTRUCTION NOTES

1) CURB AND GUTTER MAG 220A 5" CURB, TYPICAL ALL CURBS

ARCHITECT, MEP ENGINEERING AND

STRUCTURAL ENGINEERING

ATMOSPHERE ARCHITECTS

P.O. BOX 5267 MESA, AZ 85211

CONTACT: TIM BOYLE

(2A) DRIVEWAY PER CITY OF MESA DETAIL M-42

2B) DRIVEWAY PER CITY OF MESA DETAIL M-42.
MODIFIED TO 24 FEET WIDTH FOR EXIT ONLY.

(3) PROPOSED PAVEMENT

(4) PROPOSED PRIVATE SIDELWALK

5) STORM DRAIN INLET MAG 534 OR 535

6) STORM DRAIN PIPE

7 10 FT DIAMETER UNDERGROUND CONCRETE CAST—IN—PLACE RETENTION TANK. TOTAL LENGTH=125 FEET. VOLUME PROVIDED=9,817 CF

(8) ADA RAMP

9 EXISTING SEWER STUB TO BE REMOVED TO THE MAIN AND CAPPED. FINAL PROPOSED SEWER STUB TO BE DETERMINED DURING FINAL CONSTRUCTION PHASE.

(10A) PROPOSED SEWER LINE

(10B) CONNECT PROPOSED SEWER LINE TO EXISTING SEWER

(11A) PROPOSED WATER LINE

(11B) CONNECT PROPOSED WATER LINE TO STREET WATER, SIZE UNKNOWN

12 TRASH ENCLOSURE PER ARCHITECTURAL SPECIFICATIONS

(13) WROUGHT IRON FENCE

(14) PROPOSED DRYWELL > OFF-SITE CONSTRUCTION NOTES

1> CONSTRUCT NEW 4' WIDE PUBLIC SIDE WALK INFORMATION NOTES

1 EXISTING 6' CMU FENCE 2 EXISTING PUBLIC SIDEWALK

3 EXISTING CURB AND GUTTER 4 EXISTING PAVEMENT

5 EXISTING FIRE HYDRANT

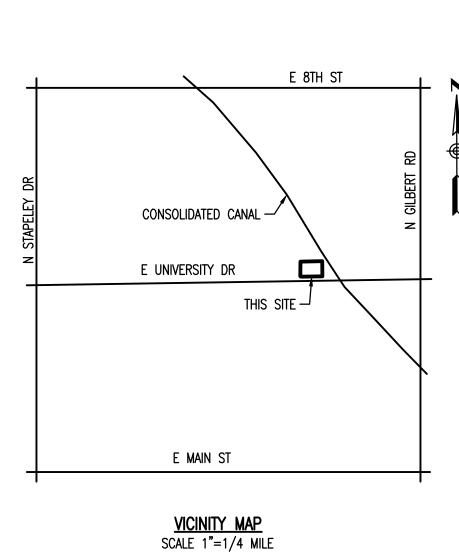
6 POOL AREA

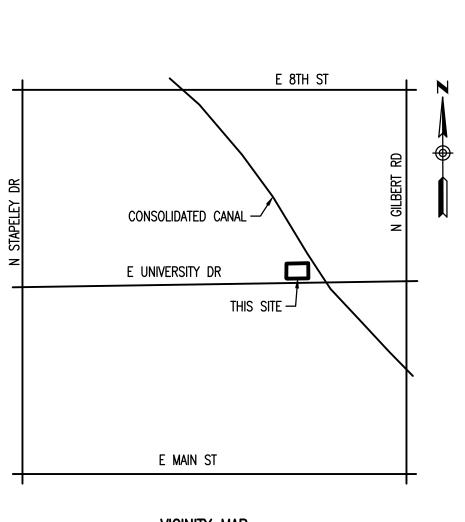
7 | FIRE ACCESS 8 | EXIT ONLY GATE 9 PROPOSED TRANSFORMER LOCATION

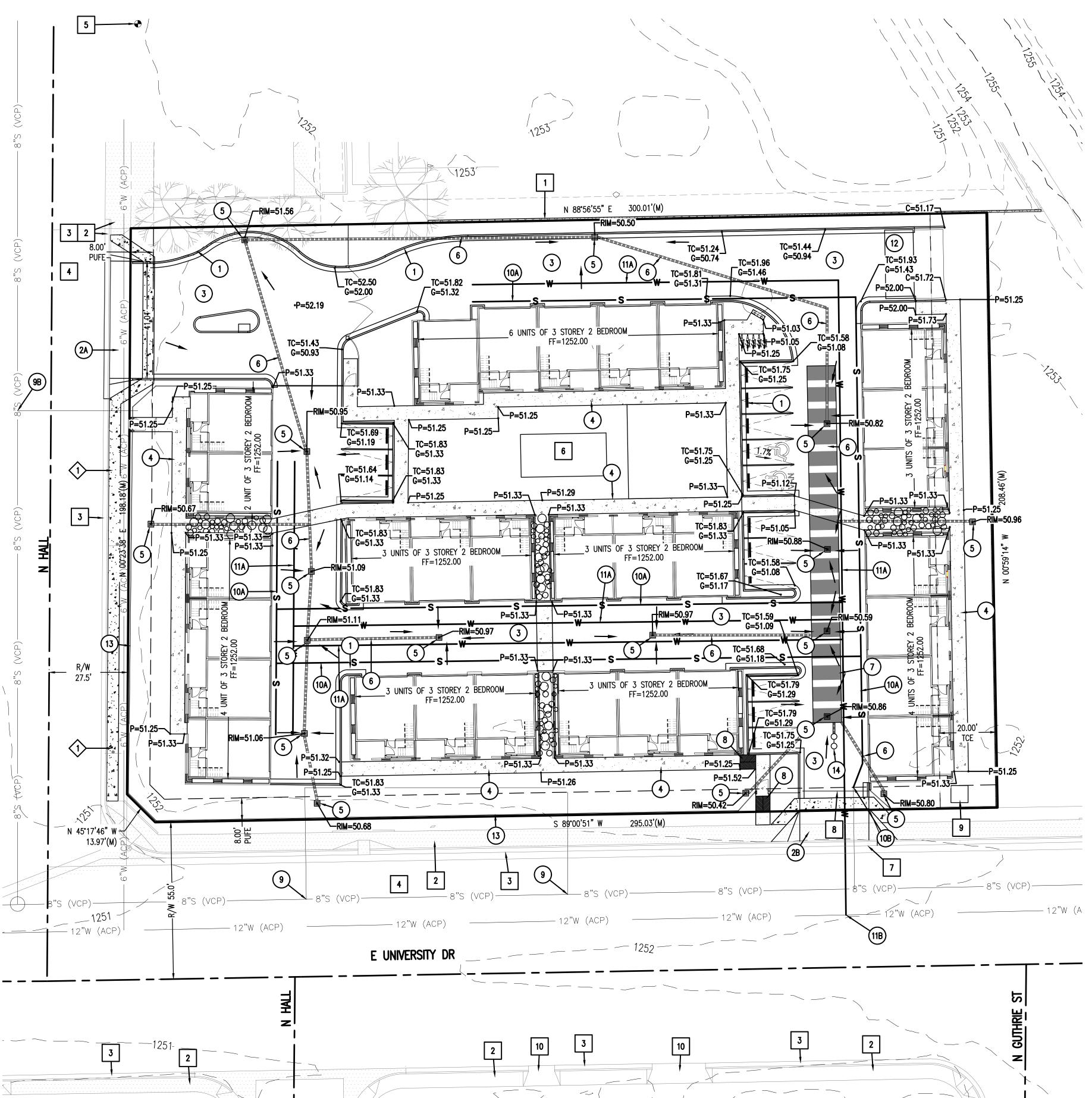
10 EXISTING DRIVEWAY

RETENTION NOTE

AT THE TIME OF DESIGN AND DEVELOPMENT THERE IS NO EXISTING STREET STORM DRAIN SYSTEM. FUTURE IMPROVEMENTS IN THE GENERAL AREA MIGHT INCLUDE STORM DRAIN SYSTEM IN PROXIMITY TO THE PROJECT AREA. AFTER CITY REVIEWS OF THE PRELIMINARY GRADING AND DRAINAGE PLAN IT WAS PROPOSED BY THE CITY THAT THE CURRENT PROJECT INCLUDES A ON-SITE DRYWELL FOR RETENTION DISPOSAL BUT IN THE FUTURE THE RETENTION SHOULD BE CONNECTED TO A STREET STORM DRAIN SYSTEM, ONCE AVAILABLE.







no. date description

TANGERINE

421 N HALL MESA, AZ 85208

PROJECT NO: 22039 DATE: 01/07/2024



atmosphere architects p.o. box 5267 mesa, az 85211

contact: Tim Boyle email: tim@atmosarch.com _tel: 917-526-0323_

PRELIMINARY GRADING AND DRAINAGE PLAN