# LONE MOUNTAIN SENIOR LIVING

Superior Lifestyle Development



# **Planned Unit Development**

NEC Lone Mountain Road and 43rd Street

Z-28-A-14-2

First Submittal: September 14, 2016

Second Submittal: November 30, 2016

Third Submittal: July 7, 2017

Public Hearing Draft: November 15, 2017

CITY OF PHOENIX

NOV 1 5 2017

Planning & Development Department

A Planned Unit Development (PUD) is intended to be a stand-alone document of zoning regulations for a particular project. Provisions not specifically regulated by the PUD are governed by the zoning ordinance. A PUD may include substantial background information to help illustrate the intent of the development. The purpose and intent statements are not requirements that will be enforced by the City. The PUD only modifies zoning ordinance-regulations and does not modify other City Codes or requirements.

# PRINCIPALS AND DEVELOPMENT TEAM

PROPERTY OWNER/DEVELOPER	Green Thumb Nursery, LLC 4302 East Lone Mountain Road Phoenix, Arizona 85331
APPLICANT/REPRESENTATIVES	Green Thumb Nursery, LLC Laura and Jeffrey May 4302 East Lone Mountain Road Phoenix, Arizona 85331 Tel: (602) 541-4550 Email: superior4302@yahoo.com
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# PURPOSE AND INTENT

The purpose of this application is to amend the existing PUD for an approximate 5.00 acre parcel located at the northeast corner of 43<sup>rd</sup> Street and Lone Mountain Road (the "Site"), shown in the aerial below. The Site is currently vacant, but is zoned PUD for the development of a similar Assisted Living Facility. The current proposal seeks to amend the existing PUD, approved in 2015, for development standards that more appropriately address the specific Site characteristics and market need.



In summary, the core development goals of this amendment are as follows:

- Increase the building footprint from 27,421 to 57,034 square feet
- Add 13 parking spaces
- Increase the maximum density to 100 beds
- Improve the quality of the architecture and residential character of the design
- Incorporate roof mounted versus ground mounted mechanical equipment

Additionally, several overall project goals have been established to preserve land use compatibility:

- Preserve the residential Sonoran desert character and lifestyle of neighboring properties while serving a growing demographic.
- Maintain and enhance the existing landscape and the majority of natural vegetation to conserve and minimize disruption to the natural ecosystem of the area. Add landscaping elements that will reduce existing dust issues and make the area more aesthetically appealing.
- Establish a development that will be respectful of local conditions, consistent with the surrounding context and promote the achievement of long-term goals outlined in the General Plan.

## **DESIGN CONCEPT**

Responding to the Sonoran southwest character of the Site and surrounding existing context, the proposed Site design features purposeful walkways, a gazebo, abundant landscaping and contemporary Mission style architecture with residential detailing. The building has been centrally positioned, to maximize setbacks as well as the landscaping provided on all sides. The dense native landscape that wraps the Site provides both shade along the sidewalks for the neighbors, and aesthetic interest, breaking up the horizontal lines of the building when viewed from adjacent homes and structures. The site plan includes parking along the east side, primarily for staff and visitors, under the shade of native trees and a garden setting for residents along the north end of the building. The garden also assists in mitigating stormwater runoff from the site. Trash is located in proximity to the building, but away from neighboring properties. The vehicular entry remains in the same location and is complemented with a parallel pedestrian entry to make it easier for school children visiting from the school just southeast of the site.

An emergency access continues to wrap around to the northwest corner of the site, but a fence between the building and the roadway will no longer be necessary. The entirety of the building mass is designed as permitted in the existing development standards; only the use inside is requesting a change from the previous approval. This arrangement of the Site, allows for the efficient management of stormwater, which has historically been an issue in the area, while making sure the new uses blend seamlessly into the existing neighborhood.

Lone Mountain Senior Living will consist of a low, Spanish hacienda with two courtyards. The building is designed to minimize its height in the landscape as a one story (18' maximum) high structure, with a basement section along the south end. The landscaped courtyards and perimeter landscape are designed to accentuate the building and break up its visual scale. The building has a flat roof with the mechanical equipment mounted on the roof to minimize noise to the surrounding uses (a change from the existing development standards). The mechanical equipment is hidden behind decorative Mission parapets and clay tile mansards with residential detailing to the corbels, facia, and rafter tales. The main entry is accented with a port-cochere also in Mission detailing.

The building is designed with a high ceilinged, central dining and multi-purpose room between the two courtyards with individual living quarters surrounding the courtyards. Staff offices are located by the main entry from the port-cochere and facilities are also offered on the lower level. Doors exit the main hallways on the north end of the building, connecting the internal courtyards to the garden. Vertical windows provide light to the interior rooms and elegant residential proportions to all of the elevations.

The overall design concept includes the principles of conservation, integration and sustainability. Conservation of the unique Sonoran Desert landscape, working with the existing topography and stormwater flows of the Site, is paramount to the design. The heavily landscaped areas around the building, in drought tolerant, desert vegetation provide shade, cooling the land and parking while also providing rich habitat for desert creatures. The building responds to its context as well. Designed to integrate into the Site and context by way of its height, residential architectural elements, form, and screening and positioning of mechanical equipment. The landscape and architecture in these ways together work to preserve the desert views and character. Sustainability is included in the design reducing emphasis on the automobile, partially by use and partially by integrating indoor and outdoor pedestrian routes. The concept of sustainability incorporates an additional use into the overall neighborhood, caring for neighbors at the end of their lives. The ability to age in place, keeping one's social relationships intact has become a key element of the quality of life and health during that time of life. Surrounded by neighborhoods that do not have easy ways to care for those who grow older, the incorporation of this use, in a way that blends into the overall character of the neighborhood, makes it easier for people to transition housing times when needed, rather than being pushed out of the neighborhood because of the cost or availability of care.

# LAND USE PLAN

This proposal consists of an Assisted Living Facility with a memory care component that will consist of 100 beds. Individual bedrooms may contain kitchen units. Other features of the design include two interior courtyards, theater, activity room, library, multi-purpose and crafts rooms. Amenities will be centrally located to increase accessibility for all residents and are designed and intended for the use of the residents and their guests. The basement level may contain administrative uses as well as a theater and activity room.

Ingress occurs along Lone Mountain Road, to minimize vehicular traffic onto N 43<sup>rd</sup> Street. The circulation design has been configured to minimize paving width, to reduce runoff and minimize heat gain. By nature of the type of residency, assisted living generates a much lower traffic count than traditional residential uses and the parking provided can be significantly reduced without deleterious impacts on the neighborhood or residents. Vehicular access to the Site will incorporate indigenous landscape material and setbacks have been maximized to shield the use from adjacent properties.

A variety of active and passive recreational opportunities are provided to accommodate residents, primarily in the form of walking paths, courtyards and a covered lounging area. Inner courtyards provided a shaded refuge for residents and are easily accessible to the rooms.

A generous open space standard has been established by this PUD at a minimum of 20% of the net lot area. In comparison, aside from the setback requirements, there is no minimum open space requirement established by Section 603 of the Phoenix Zoning Ordinance for suburban residential developments. Preservation of the Sonoran Desert environment and residential character is paramount to the design theme for Lone Mountain Senior Living. The significant open space provided will mitigate any negative visual impact of the development from the surrounding uses. The open space includes dense desert landscaping, a garden, courtyards and walking trails and will enhance the naturally scenic setting of this community.

# SITE CONDITIONS & LOCATION

#### Acreage

The Site is generally located at the northeast corner of Lone Mountain Road and 43rd Street. The gross lot area is represented as approximately 217,800 square feet or 5 acres, which includes dedications on the north half of Lone Mountain Road and the east half of 43<sup>rd</sup> Street.

#### Location in relation to major intersections or areas of regional significance

Directly across the street is Desert Willow Elementary School. The Site is located in Lone Mountain Elementary School District. Given the fact that this is an Assisted Living Center for senior adults, it will have no deleterious impact on the school.

#### **Topography and natural features**

The Site is generally flat with a minor slope from the northeast down to the southwest. There appears to be remnants of a historic wash onsite. The residential lots to the east have all installed perimeter fencing at the lot line, with a pipe providing flow onto the site. Stormwater historically leaves the site at a point just north of Lone Mountain and crosses at grade across 43<sup>rd</sup> Street as it heads east. The development of the surrounding properties in ways not in harmony with the existing conditions have left the area prone to some stormwater issues.

# **GENERAL PLAN CONFORMANCE**

The General Plan Land Use Map identifies the Site as Residential 0-2 du/acre. The proposal is consistent with the General Plan Land Use designation of Residential and will promote the achievement of many of the long-term goals outlined in the Phoenix General Plan.

*Certainty and Character:* Every neighborhood and community should have a level of certainty. Ensure that development, redevelopment and infrastructure supports and reinforces the character and identity of each unique community and neighborhood.

**Design Principle #1:** Protect and enhance the character of each neighborhood and its various housing lifestyles through new development that is compatible in scale, design and appearance.

**Design Principle #3:** Create new development that is sensitive to the scale and character of the surrounding neighborhoods and incorporates adequate development standards to prevent negative impact(s) on the residential properties.

<u>Response:</u> The Lone Mountain Senior Living facility is a compatible development with the existing residential context. The improved architecture has been carefully designed to be residential in scale and appearance, which creates a welcoming environment for residents and supports consistency in neighborhood character. A generous open space requirement has been incorporated into the design to respect the surrounding residential developments, preserve their views and provide lush landscaping buffers to separate the use.

The proposal supports the neighborhood character and identity through incorporation of streetscape amenities (curbs/sidewalks) as well as internal walking paths for residents and visitors. It is anticipated that students from the school directly across the street will utilize the sidewalk to visit the Site as they participate in planned intergenerational programs that include mentoring.

**Design Principle #5:** Enhance the compatibility of residential infill projects by carefully designing the edges of the development to be sensitive to adjacent existing housing. Create landscape buffers and other amenities to link new and existing development.

<u>Response:</u> Respecting that this development is surrounded by single-family residential, special consideration has been incorporated into the development in regards to edge treatment and landscaping. The result is a development that exceeds the open space requirements found in the surrounding neighborhoods, creating a pleasant environment that improves the community and will promote increased property values in the neighborhood.

**Design Principle #7:** Protect the neighborhood's views of open space, mountains, and man-made or natural landmarks.

<u>Response:</u> Landscaped buffer areas of sufficient widths, combined with incorporation of open areas assist in preservation of adjacent rural lifestyles. The proposed height of

eighteen feet is consistent with the surrounding developments and will not hinder the enjoyment of the neighborhood's views of open space, mountains and other natural features.

**Design Principle #13:** Integrate into the development design natural features such as washes, canals, significant topography and existing vegetation, which are important in providing character to new subdivisions.

<u>Response:</u> This development will retain and enhance the unique character of the Desert View Village by preserving the natural characteristics of the Site. The existing stormwater flow has been integrated into the development design, native plant materials are salvaged and reused to promote preservation areas and protect the flora and fauna of the property.

**Diverse Neighborhoods:** Encourage communities and neighbors to be a mix of ages, incomes and ethnicities and provide housing suitable to residents with special needs. A diverse range of housing choices, densities and prices in each village should be encouraged.

*Land Use Principle #2:* Include a mix of housing types and densities where appropriate within each village that support a broad range of lifestyles.

<u>Response:</u> This facility provides an option for area residents who can no longer function in their single-family residences or need assistance with the activities of daily living. The proposed facility meets the need for a broader range of housing types and price ranges within the Village. This includes opportunities for housing in various prices, types, densities, and sizes which provide greater opportunities for residents to remain in the Village and close to their families, friends and jobs. The facility will allow residents to remain in the immediate area and transition from their homes to a supported residential environment.

*Local and Small Business:* Promote the growth and prosperity of Phoenix locally owned and small businesses. Encourage the growth and expansion of locally owned and small businesses as a means of creating jobs.

*Land Use Principle #1:* Facilitate adaptive reuse of older, underutilized properties to create mechanisms for new local and small businesses to operate, thrive and grow.

<u>Response:</u> Lone Mountain Senior Living Community is an opportunity for local entrepreneurs, Laura and Jeffrey May, to utilize an underutilized parcel for the creation of new, good-wage jobs. The facility will provide an additional 100 beds to fulfill a current need for assisted living options, as is supported by a market study conducted by the applicant that demonstrates a growing senior demographic.

The creation of new jobs is a benefit of this PUD, which will provide 25 new employment opportunities to local residents. Equally important is the fact that this proposal will help to restore the housing/employment balance in this area that includes densely populated residential communities with few employment opportunities.

# ZONING AND LAND USE COMPATIBILITY

General Plan Land Use classifications, along with the existing zoning designations and uses for the adjacent parcels, are as follows:

EXISTING LAND USE SUMMARY			
Direction	General Plan Land Use Classification	Existing Zoning	Existing Use
Site	Residential 0-2 du/acre	PUD	Nursery/Greenhouse
North	Residential 0-2 du/acre	S-1	Residential
South	Public/Quasi Public	R1-6 PCD	Elementary School
South and SW	Residential 0-2 du/acre	R1-6 PCD	Residential
East	Residential 0-2 du/acre	S-1	Residential
West	Residential 0-2 du/acre	S-1	Residential

#### **Existing Zoning**

The Site was annexed into the jurisdictional boundaries of the City of Phoenix in 1989 and was zoned S-1 (Ranch or Farm Residence District). On July 1, 2015, the Lone Mountain Senior Living PUD was adopted through Ordinance G-4077 for the development of a 60 bed Assisted Living Facility for seniors.

### **Existing Land Use**

The Site, as shown below, is currently in use as an active nursery and landscape company and consists of indigenous vegetation and includes the minor remnants of natural wash features.



Since the purchase by the current owner in 1996, the Site has been used as a greenhouse and nursery operation in support of their landscaping business. Since the owner's purchase of the Site, a school has been built directly across the street as well as a number of homes along 44<sup>th</sup> Street.

Surrounding uses consist of a school directly to the south, a large warehouse/garage to the immediate north, single family residences, and a large greenhouse/nursery operation to the immediate west.

## Compatibility

The Site, positioned among various uses that are currently experiencing a need for senior housing and supportive commercial developments, is an appropriate location for an Assisted Living Facility. Residential in nature, Lone Mountain Assisted Living has been thoughtfully designed to incorporate appropriate building heights and scale, appropriate architectural styles, sufficient buffer areas, and open spaces to ensure compatible built form. Additionally, this proposal includes a new site plan with carefully planned architecture that respects the neighborhood character through a design that appears residential in nature.

# LIST OF USES

The following uses shall be permitted:

Assisted Living Center

**Residential Care Center** 

Adult Day Care Home

Adult Day Care Center

All uses permitted in Section 603 of the Phoenix Zoning Ordinance

Any property owner of the Site may request an interpretation of analogous uses to the defined list from the City of Phoenix Zoning Ordinance. The Zoning Administrator may administratively approve a use analogous to those uses listed above.

# **DEVELOPMENT STANDARDS**

#### **RESIDENTIAL STANDARDS**

All residential development shall comply with Section 603 of the Phoenix Zoning Ordinance.

# LOT DEVELOPMENT STANDARDS

STANDARD	PROPOSED
Maximum Height	Maximum Eighteen (18) feet
Maximum Lot Coverage	Maximum Forty (40) percent
Maximum Number of Beds	Maximum 100 beds
Open Space	Minimum Twenty (20) percent of the Net Lot Area
Building Setbacks	
South	Minimum 35 feet
West	Minimum 28 feet
East	Minimum 35 feet
North	Minimum 35 feet

#### LANDSCAPING STANDARDS

STANDARD	PROPOSED
Plant Sizes	
Trees	Minimum 70%: Two (2) inch caliper Minimum
	30%: Three (3) inch caliper
Shrubs	Five (5) 5-gallon shrubs per tree
Grading Slopes Ratios (Max)	
Retention	4:1
Berm	As contoured
Streetscape	
Street Setback	Minimum 25 feet
Tree Spacing	20 feet on center or equivalent groupings
Shrubs	Minimum three (3) 5 gallon shrubs per tree
Property Lines not Adjacent to Street	
Trees (2-inch caliper)	70% of required
Trees (1-inch caliper)	30% of required
Landscape Setback	Minimum 10 feet

The property owner shall be responsible for the maintenance, landscaping, improvements and preservation of all common areas, open space areas, wash area, parking lot, landscape setbacks, and landscaping within the right of ways.

Retention basins shall be contoured to create a natural appearance. Slopes shall not exceed that which is permitted under the guidelines.

Berms shall be contoured to create a natural appearance. Berm slopes shall not exceed a 3:1 ratio.

All trees shall be planted and staked in accordance with the Arizona Nursery Association Standards.

All landscape areas shall have an automatic irrigation system. Trees, shrubs and groundcover shall be watered by a drip irrigation system and turf areas shall incorporate high efficiency spray heads.

Street trees, shrubs, accent plants, and ground covers planted in the right of way shall be selected from the Arizona Department of Water Resources Low Water Use/Drought Tolerant Plant List for the Phoenix Active Management Area.

### PARKING

Off-street parking and loading shall comply with Section 702 of the Zoning Ordinance.

#### AMENITIES

Site amenities shall include walking paths, sitting areas, and a shade gazebo.

#### SHADE

Pedestrian walkways shall be shaded (50% at maturity) by shade trees. Minimum one covered gazebo shall be provided.

## LIGHTING

Exterior lighting shall comply with Section 507 Tab A and 704 of the Phoenix Zoning Ordinance, and the City Code.

#### WALLS & FENCES

Walls and Fences shall comply with Section 703 of the Phoenix Zoning Ordinance.

Fences along Lone Mountain Road and N 43<sup>rd</sup> Street shall consist of view fencing and may be comprised of decorative iron wrought fencing or a similar material.

# **DESIGN GUIDELINES**

Lone Mountain Senior Living conceptual building renderings are intended to provide the design framework to ensure that it flows within the built environment. The elevations provide for rooflines, proportion, façade articulation, appropriate detailing, colors and materials to promote design respecting the architectural character of the surrounding built form. The goal of these guidelines is not to dictate or direct architectural style, but to achieve harmony in the built environment.

#### **Architectural Design Elements**

- The front entry of the building is clearly defined and identifiable.
- Windows/trim as well as accent detailing shall be incorporated and vary from the primary color and materials of the building.
- All driveways shall be constructed of asphalt, concrete, brick, decorative pavers or integral color concrete.
- Air conditioning, heating or environmental enhancement devices may be roof mounted or ground mounted.
- Design of accessory buildings shall be compatible with the design of the principal dwelling in materials, colors and architectural style. Roof tile color and shape shall match the tile on the dwelling units.



## SIGNS

All signage shall comply with Section 705 of the Phoenix Zoning Ordinance for nonresidential activity in a residential district, unless otherwise noted by this development narrative.

#### **Design of Permanent Signs**

All permanent signs shall be compatible with the design of buildings, reflecting the architectural style, building materials, textures, colors, and landscape elements of the overall project.

#### **Placement of Signs**

• Signs and landscaping shall be placed so that they are not in conflict when landscaping reaches full maturity.

### **Ground Sign / Entry Sign**

One single-sided ground sign shall be permitted along Lone Mountain Road, subject to the following conditions:

- Signs shall be no greater than 5 feet in height and 7 feet in width.
- Size shall not exceed 35 square feet in area.
- Signs shall be setback a minimum of 10 feet from the property line.
- Signs shall be architecturally compatible with other development components.

# SUSTAINABILITY GUIDELINES

At a minimum, consideration and implementation of at least five (5) of the following Design Review Presumptions or other sustainability principles as approved by the Planning and Development Department shall be incorporated into the development.

- A. Building designs should respond to the harsh southwest climate by incorporating materials and design methods suitable for the region.
- B. Orientation of buildings and fenestration design should maximize solar benefits while minimizing the negative impacts of heat gain.
- C. Incorporate solar collection technologies for providing and storing energy as well as heated water systems for individual buildings.
- D. Design for effective water usage and conservation methods in buildings by using low flow 'Water Sense' qualified plumbing fixtures using minimal amounts of potable water.
- F. Include energy efficient certified appliances in all dwelling units for reduction in power consumption.
- G. Incorporate HVAC systems with a minimum SEER rating of 14.
- H. Incorporate "Smart" irrigation control systems.
- I. Use roofing materials that specify a high Solar Reflectance Index for a minimum of 75% of the roof surface area.
- K. During construction on the building site, vegetation and soils shall be protected and reused.
- N. Carpets and carpet adhesives should be labeled with, or otherwise documented as meeting, the Carpet & Rug Institute (CRI) Green Label Plus or Green Label testing program criteria. Carpet cushion (i.e., padding) should similarly be certified to meet the CRI Green Label testing program criteria.
- Q. Incorporate solar powered, internal street lighting to reduce energy demand and consumption.
- R. Site hardscape areas, including vehicular access ways, should be minimized to the extent possible to reduce drainage runoff and minimize heat gain.
- S. A minimum of 50 percent of newly landscaped areas within common and buffer areas shall contain native species.

# INFRASTRUCTURE

#### **Circulation Systems**

Direct vehicular ingress to the Lone Mountain Senior Living facility will occur from East Lone Mountain Road using the existing entrance. The one-way drive will exit onto N 43<sup>rd</sup> Street and will be a left-only turn. The traffic impact for Assisted Living Facilities is minimal as the average age of a resident is 80-85 years and, thus, it would be highly unusual that they would drive. There is also an emergency and refuse driveway proposed off of North 43<sup>rd</sup> Street at an existing mapped point of entry.

All roadways have been coordinated with adjacent circulation patterns and developments to ensure appropriate access and traffic control.

A 10-foot sidewalk easement shall be dedicated along the north side of Lone Mountain Road, as approved by the Planning and Development Department.

The developer shall construct all streets adjacent to the development with paving, curb, gutter, sidewalk, curb ramps, streetlights, landscaping and other incidentals as per plans approved by the Planning and Development Department. All improvements shall comply with all ADA accessibility standards.

#### **Grading and Drainage**

All grading and drainage shall comply with City Code. A topographical survey and grading and drainage plan were completed to most appropriately design the Site to address the drainage. See Grading and Drainage Plan attached as Exhibit I.

#### Water and Wastewater Services

The City of Phoenix shall be the potable water service provider, with major water mains providing water service connection to the site. The distribution system internal to the project and fire hydrant spacing shall be designed in accordance with City of Phoenix Water Services Design Manual. The City of Phoenix is the designated service provider for Lone Mountain Senior Living. This proposal includes an intent to aggregate from the existing North Cave Creek Road sewer line to the subject property.

# PHASING

No project phasing is proposed.

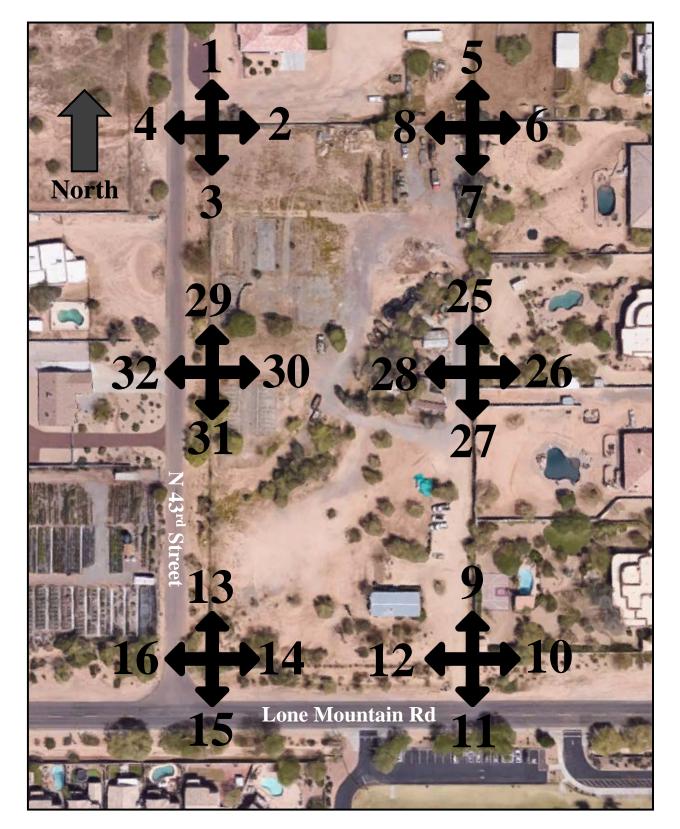
# EXHIBIT A Legal Description

THE WEST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 18, TOWNSHIP 5 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA;

EXCEPT THE SOUTH 33 FEET;

AND EXCEPT THAT PORTION DESCRIBED IN DOCUMENT NO. 96-0583899, MARICOPA COUNTY RECORDER.

# **EXHIBIT B** Context Plan





# Lone Mountain Senior Living - Site Context Exhibit 1 (1-4)



#### Lone Mountain Senior Living - Site Context Exhibit 2 (5-8)



# Lone Mountain Senior Living - Site Context Exhibit 3 (9-12)



# Lone Mountain Senior Living - Site Context Exhibit 4 (13-16)

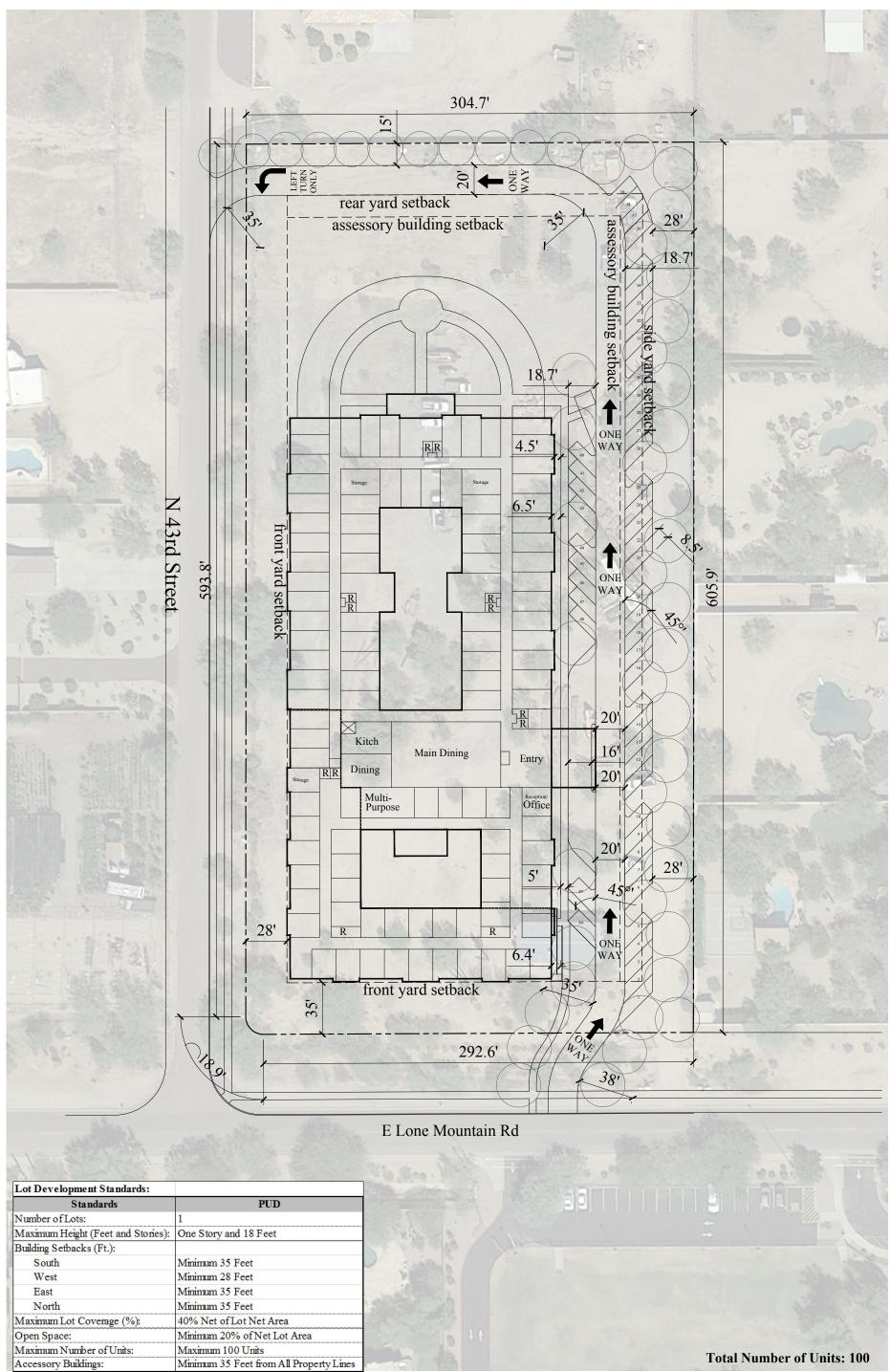


# Lone Mountain Senior Living - Site Context Exhibit 5 (25-28)



# Lone Mountain Senior Living - Site Context Exhibit 6 (29-32)

# **EXHIBIT C** Conceptual Site Plan



Lot Development Standards:	
Standards	PUD
Number of Lots:	1
Maximum Height (Feet and Stories):	One Story and 18 Feet
Building Setbacks (Ft.):	
South	Minimum 35 Feet
West	Minimum 28 Feet
East	Minimum 35 Feet
North	Minimum 35 Feet
Maximum Lot Coverage (%):	40% Net of Lot Net Area
Open Space:	Minimum 20% of Net Lot Area
Maximum Number of Units:	Maximum 100 Units
Accessory Buildings:	Minimum 35 Feet from All Property Lines

## LONE MOUNTAIN

#### Superior Lifestyle



# Conceptual Site Plan

#### Courtyard Structure



# EXHIBIT D Landscaping Plan

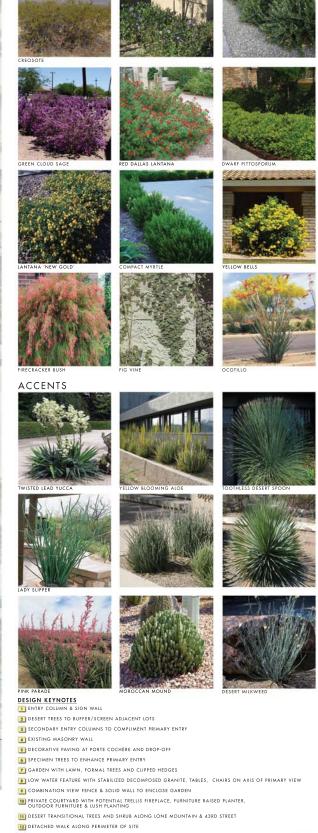




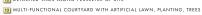














SHRUBS

DPSEED BUS

# **EXHIBIT E Conceptual Elevations**



CONCEPTUAL SOUTH ELEVATION FACING LONE MOUNTAIN ROAD NOT FOR CONSTRUCTION



LONE MOUNTAIN



## CONCEPTUAL BUILDING ELEVATIONS

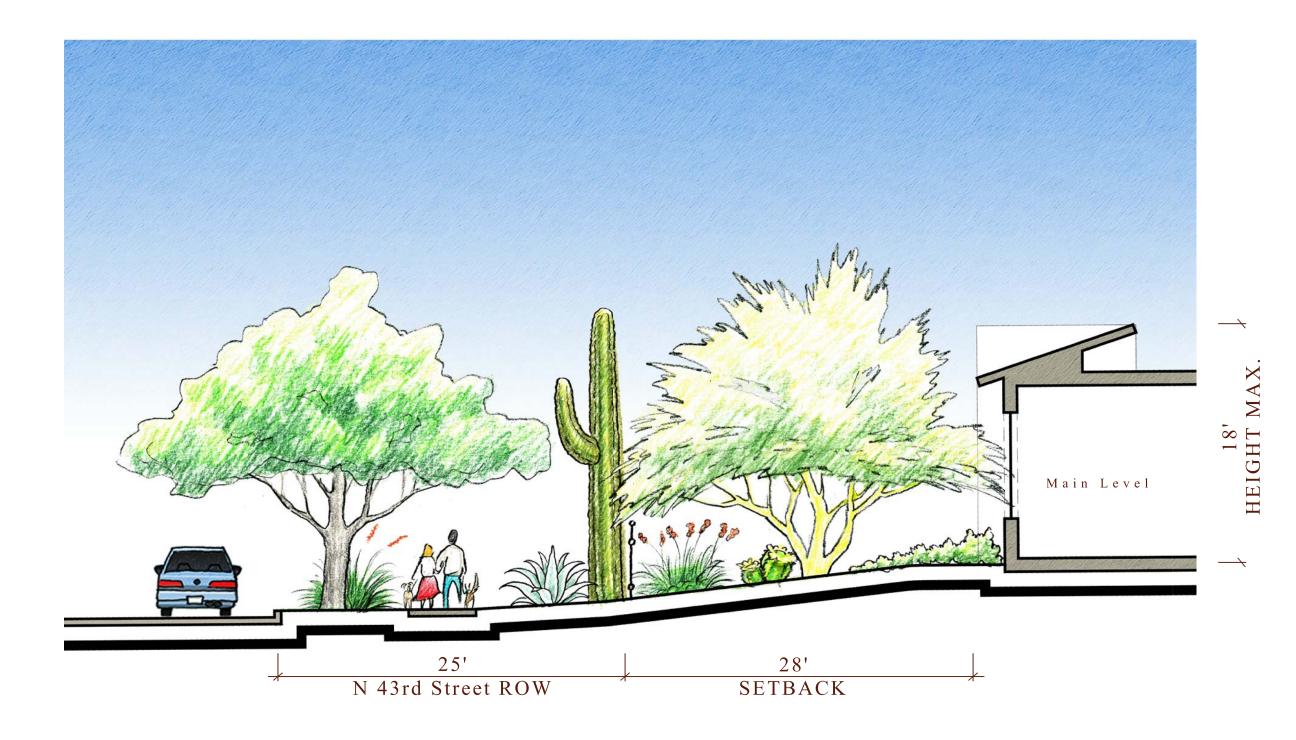
Superior Lifestyle

South Facing Lone Mountain and East Entry

CONCEPTUAL EAST ELEVATION SHOWING ENTRY NOT FOR CONSTRUCTION



# EXHIBIT F Cross Sections



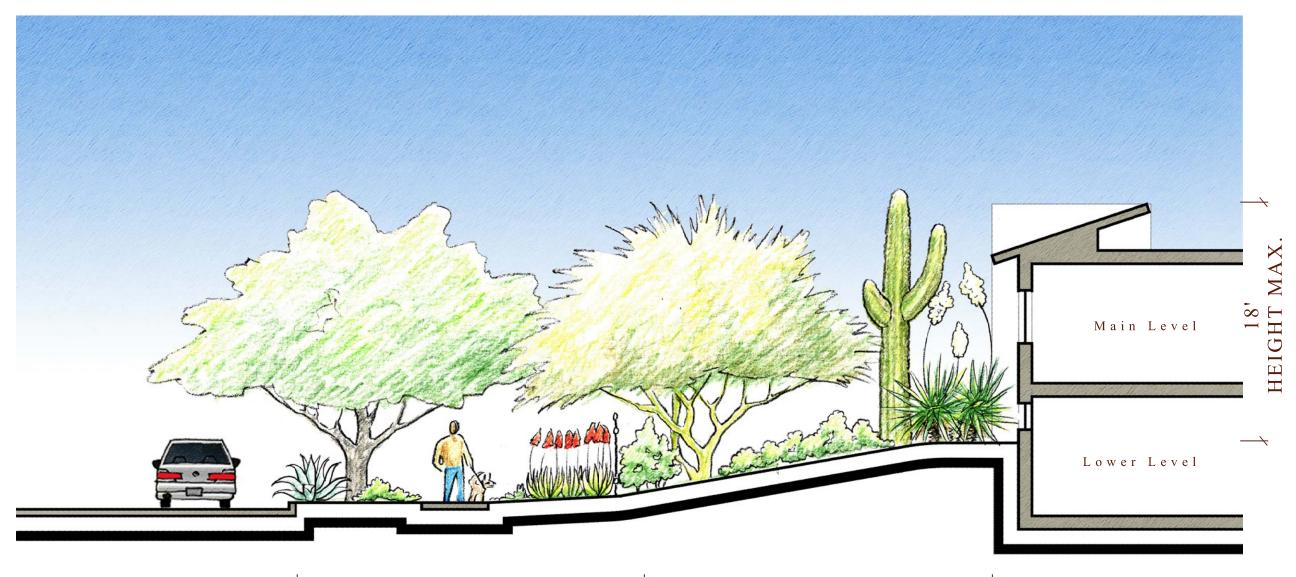
#### LONE MOUNTAIN



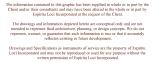
#### SECTION A1

North 43rd Street, Single Level

Superior Lifestyle



25' N 43rd Street ROW 28' SETBACK



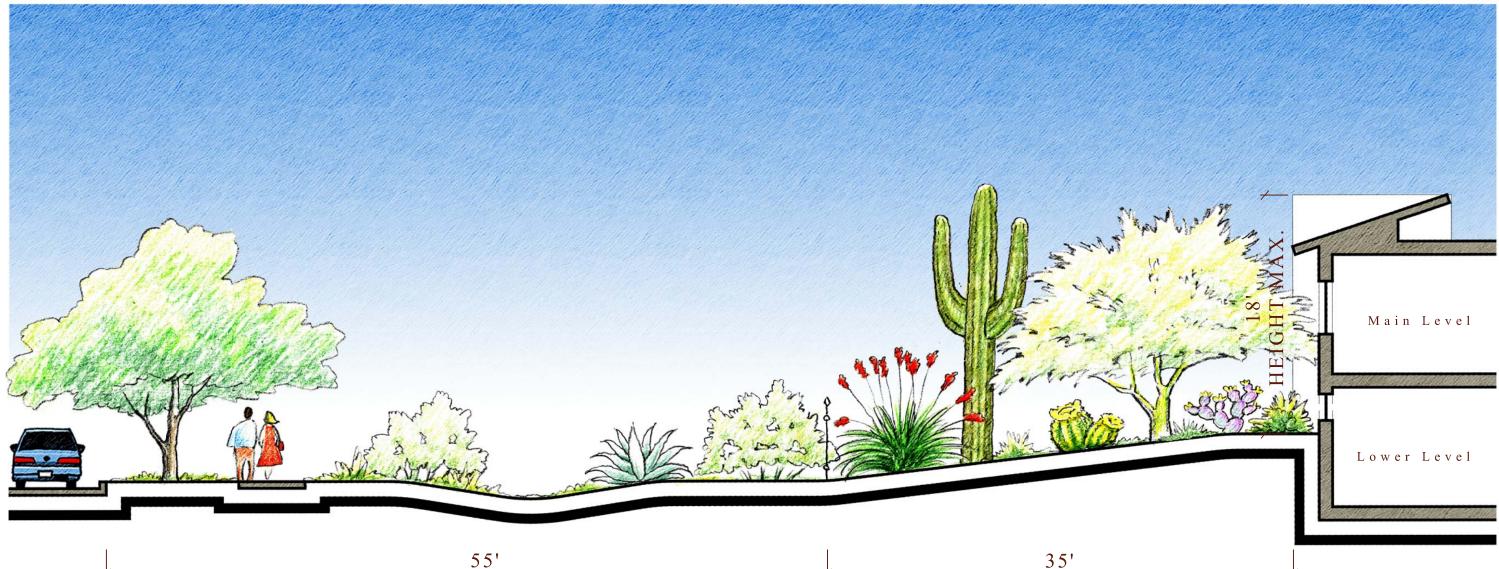
#### LONE MOUNTAIN



#### SECTION A2

Superior Lifestyle

North 43rd Street, Single Level



35' SETBACK 55' East Lone Mountain Road ROW

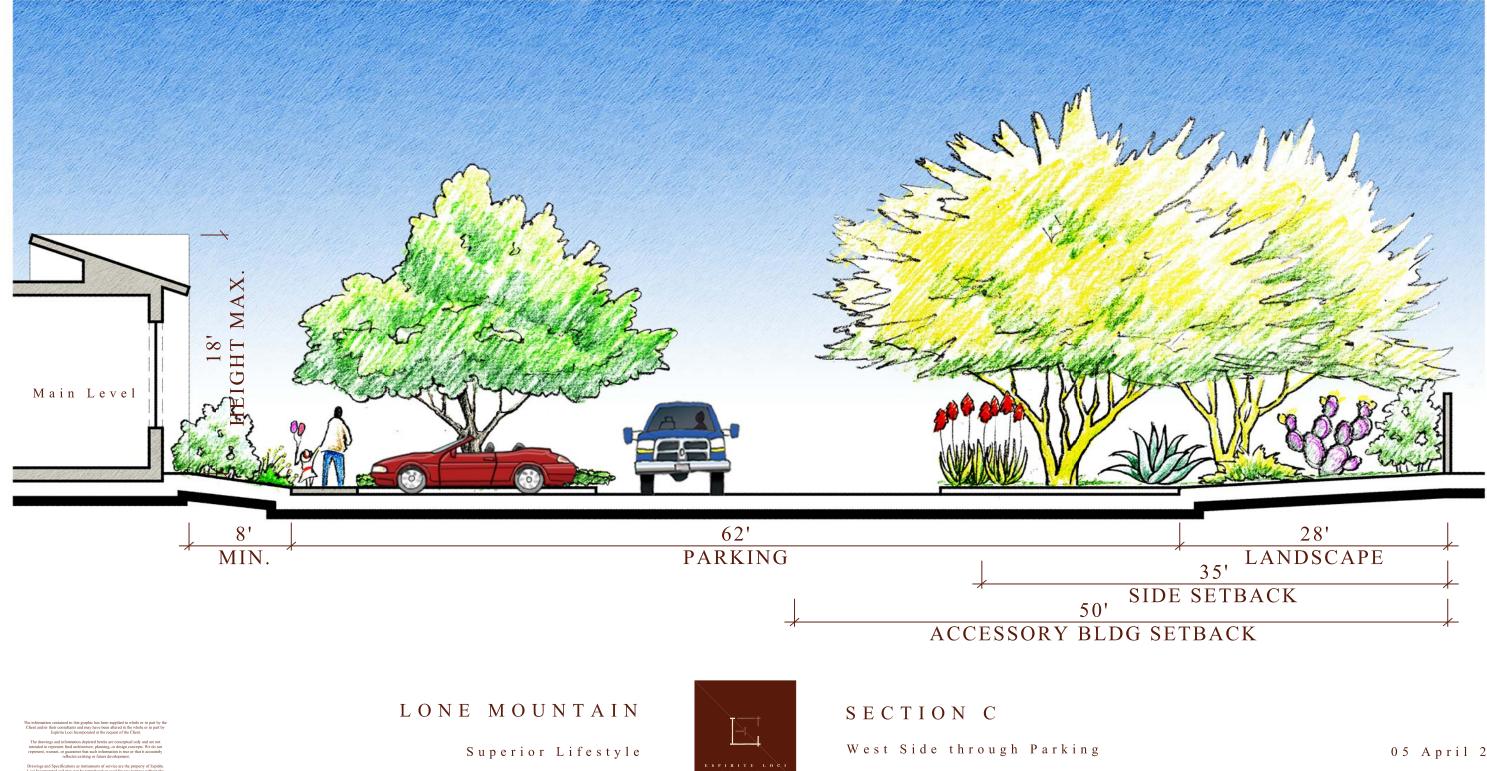
LONE MOUNTAIN



SECTION B

East Lone Mountain, Lower Level

Superior Lifestyle



#### EXHIBIT G Traffic Impact Statement

## **Kimley»Horn**

June 30, 2017

Ms. Laura May Green Thumb Nursery, LLC 4302 East Lone Mountain Road Phoenix, AZ 85331

Re: Lone Mountain Senior Living - NEC Lone Mountain Road and 43<sup>rd</sup> Street Traffic Impact Statement Revision

Dear Ms. May:

The purpose of this letter is to address site specific issues for the proposed assisted living and memory care development located on the northeast corner of the intersection of Lone Mountain Road and 43<sup>rd</sup> Street in Phoenix, Arizona. This letter outlines our findings regarding the revised traffic generation of the proposed 100 unit assisted living and memory care development.

The development is proposed to consist of 100 assisted living units uses on approximately 4.23 acres. The site is currently utilized by the Green Thumb Nursery which includes nursery and greenhouse uses. Access to the proposed development will be provided by two driveways. One driveway will access the site from Lone Mountain Road. This driveway is a full access driveway located approximately 255 feet east of 43<sup>rd</sup> Street. The second driveway will access the site from 43<sup>rd</sup> Street. This driveway is a full access driveway located approximately 650 feet north of Lone Mountain Road. A preliminary site plan for the development is attached.

Trip generation rates published by the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 9<sup>th</sup> Edition were used to calculate the trip generation characteristics of the proposed land uses. The revised trip generation calculations for the proposed assisted living use was determined using ITE Code 254 for Assisted Living. Trip generation calculations are summarized in **Table 1**. Trip generation calculations are attached.

Land Use Description	ITE	Quantity	Units	Daily		AM			PM	
	Code			Trips	In	Out	Total	In	Out	Total
Assisted Living	254	100	Beds	266	9	5	14	10	12	22

Table 1. Proposed Trip Generation

The trip generation calculations indicate that on an average weekday the proposed development would be expected to generate 266 daily trips with 14 trips occurring in the AM peak hour and 22 trips occurring in the PM peak hour.

Based on the results of this analysis the proposed development's trip generation would not result in a significant change in traffic conditions or significant change in delay in the area surrounding the project.

602 944 5500

## Kimley *Whorn*

If you have any further questions, please feel free to contact me at (602) 906-1333.

Very truly yours,

KIMLEY-HORN AND ASSOCIATES, INC.

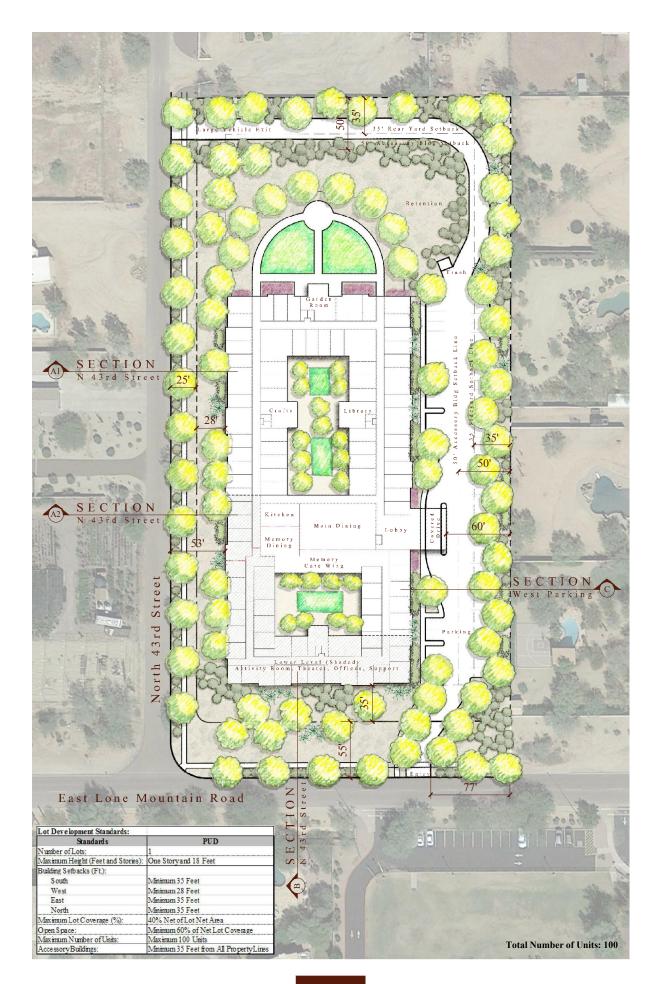
hulu R Wight

Charles R. Wright, P.E.

Attachments: Site plan, Trip Generation

K:\PHX\_Traffic\191860000 - NEC Lone Mountain & 43rd Street\Reports\trip gen\_06-30-17.doc





#### LONE MOUNTAIN

Superior Lifestyle



Illustrated Site Plan

Courtyard Structure

#### Trip Generation Planner (ITE 9th Edition) - Summary Report

Project Name

Lone Mountain Senior Living

#### Kimley »Horn

Trips	Based on A	Average Rates/Equations	Project Number		19	9186000	00	-																					
							Rates				Т	otal Tri	os				Net 1	Trips af	ter Inte	rnal Cap	oture		Ne	t Trips	after Int	ernal C	apture	& Pass-	Ву
	Internal				Avg							АМ	АМ	РМ	РМ				АМ	АМ	РМ	РМ				АМ	АМ	РМ	РМ
ITE	Capture		Independent	No. of	Rate	Daily	AM	PM	Daily	AM	PM	Trips	Trips	Trips	Trips	Daily	AM	PM	Trips	Trips	Trips	Trips	Daily	AM	PM	Trips	Trips	Trips	Trips
Code	Land Use	Land Use Description	Variable	Units	or Eq	Rate	Rate	Rate	Trips	Trips	Trips	In	Out	In	Out	Trips	Trips	Trips	In	Out	In	Out	Trips	Trips	Trips	In	Out	In	Out
	Select Use																												
254	Select Use	Assisted Living	Bed(s)	100	Avg	2.66	0.14	0.22	266	14	22	9	5	10	12	266	14	22	9	5	10	12	266	14	22	9	5	10	12
	Select Use																												
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								Totals	266	14	22	9	5	10	12	266	14	22	9	5	10	12	266	14	22	9	5	10	12

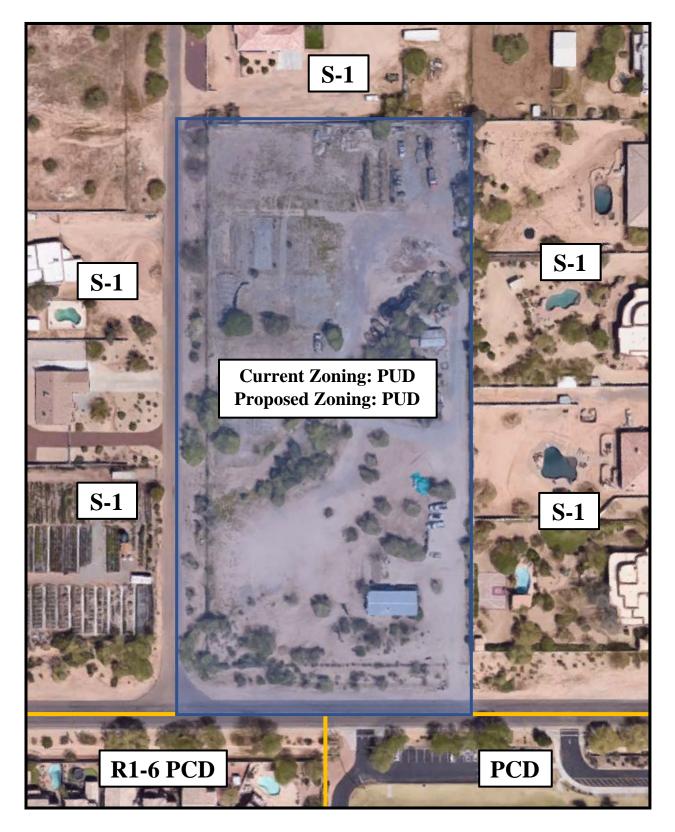
Notes:

- (1) AM and/or PM rates correspond to peak hour of generator
- A Trip Generation data from ITE Trip Generation, 9th Edition
- B AM/PM rates correspond to peak of adjacent street traffic (if data available)
- C Includes weekday rates only

Weekday Trip Generation

- D Total trips include pass-by trips w/ no internal capture
- E Pass-by rates from ITE Trip Generation Handbook, 2nd Edition
- F Internal capture rates from ITE Trip Generation Handbook, 2nd Edition
- G Worksheet is intended as a planning tool. Verify results w/ ITE *Trip Generation 9th Edition*

#### EXHIBIT H Zoning Map



#### **EXHIBIT I** Grading and Drainage Plan

# **GRADING and DRAINAGE PLAN** LONE MOUNTAIN SENOIR LIVING FACILTY, MULTI-FAMILY RESIDENTAL CONSTRUCTION LOCATED IN THE NORTHEAST QUARTER OF SECTION 18, TOWNSHIP 5 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASELINE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

## <u>Grading and Drainage Notes (City of Phoenix)</u>

1. A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.

2. WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT. 3. EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.

4. PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ONSITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811. 5. STAKING FINISH FLOOR ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.

5g. (CERTIFICATION OF FINISH FLOOR ELEVATION IS MANDATORY IF STRUCTURE IS LOCATED IN A FLOODPLAIN OR OTHER CRITICAL DRAINAGE AREA.) USE THE AS-BUILT CERTIFICATION, PLUS A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) "ELEVATION CERTIFICATE" MUST BE COMPLETED FOR EACH

STRUCTURE CONSTRUCTED IN A SPECIAL FLOOD HAZARD AREA (SFHA) PRIOR TO AN ELECTRICAL CLEARANCE FOR THAT STRUCTURE. ONE COPY OF THE "ELEVATION CERTIFICATE" IS TO BE SUBMITTED TO THE GENERAL BUILDING SAFETY INSPECTOR ON SITE AND ONE COPY IS TO BE SUBMITTED TO THE CITY OF PHOENIX FLOOD PLAIN MANAGER. IN ADDITION, SPECIFY THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE ARIZONA REGISTERED ENGINEER OR LAND SURVEYOR RESPONSIBLE FOR PROVIDING CERTIFICATION.

6. A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION. 7. AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION. 8. GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR

OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR **FI EVATION** 9. GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUBCONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.

10. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS. THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOF TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED. 11. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS,

BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.

12. PER SECTION 6.8.7 OF THE STORM WATER POLICIES AND STANDARDS, SIDE SLOPES OF STORM WATER STORAG FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON SLOPES GREATER THAN 5:1. 13. RETAINING WALLS 3'4" OR LESS MEASURED FROM THE TOP OF THE FOOTING TO THE TOP OF THE RETAINING

WALL THAT SUPPORT A SURCHARGE ARE TO BE REVIEWED AND PERMITTED BY THE CIVIL PLAN REVIEW STAFF AND INSPECTED BY THE RESIDENTIAL INSPECTION STAFF. RETAINING WALL OVER 3'4" ON NON-HILLSIDE RESIDENTIAL ZONING DISTRICTS REQUIRE A USE PERMIT. WALLS OVER 3'4" WILL BE REVIEWED, PERMITTED, AND INSPECTED BY THE RESIDENTIAL SECTION OF THE PLANNING & DEVELOPMENT DEPARTMENT UNDER SEPARATE SUBMITTAL BY THE APPLICANT.

14. ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND12:1 MAX LONGITUDINAL SLOPES.

15. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED. 16. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.

17. THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE HEALTH, SAFETY, OR OTHER DESIGN ISSUES.

18. THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813 (TRAFFIC BUREAU SOUTH) OR (602) 495-6784 (TRAFFIC BUREAU NORTH)

19. PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

# SAFTEY NOTE TO THE CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLEY AND COMPLETELY BE RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THEIR WORK. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IN NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

#### ENGINEER'S NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS, ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS AND WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR THEIR DEPICTED LOCATION ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ALL OTHER LINES NOTE OF RECORD OR NOT SHOWN ON THESE PLANS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE INVESTIGATION OF THE ACTUAL PORTION OF THEIR WORK ATTRIBUTED TO THEIR LOCATION.

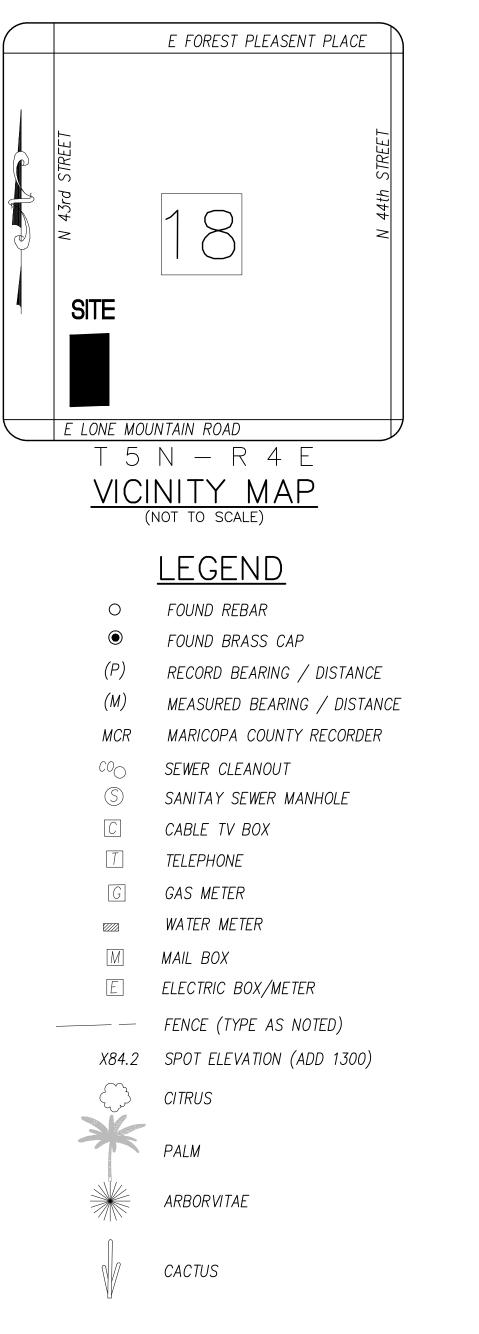
"Per City of Phoenix Ordinance G-4396, these plans are for official use only and may not be shared with others except as required for the construction of the public works facilities shown hereon. The Project Owner, and the Owner's Lenders, Consultants, Contrcators and Subcontractors are prohibited from disclosing the plans and specifications to any persons other than those who have a need to know the information for the Project."

# AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

\_\_\_\_\_ REGISTERED ENGINEER / LAND SURVEYOR





# FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

COMMUNITY NUMBER	PANEL #	SUFFIX	DATE OF FIRM	FIRM ZONE	BASE FLOOD ELEVATION (In AO Zone, Use Depth)
040129	0890	L	10/16/13	Х	NA

A FEDERAL EMERGENCY MANAGMENT AGENCY (FEMA) ELEVATION CERTIFICATION BASED ON FINISHED CONSTRUCTION MUST BE REVIEWED AND APPROVED BY FLOOD MANAGEMENT FORE EACH NEW AND SUBSTANTIAL IMPROVEMENT STRUCTURE CONSTRUCTED IN A SPECIAL FLOOD HAZARD AREA (SFHA) PRIOR TO ISSUING A CERTIFICATE OF OCCUPANCY. A COPY OF THE ELEVATION CERTIFICATION MUST BE SUBMITTED TO THE GENERAL AND STRUCTURAL INSPECTOR.

SITE IS IN A SPECIAL FLOOD HAZARD AREA:	
OFFSITE FLOWS AFFECT THIS SITE:	
RETENTION PROVIDED FOR 100YR 2HR STORM EVENT;	
EXTREME STORM OUTFALLS THE SITE AT THE ELEVATION OF	-



# UTILITY COORDINATION

COMPANY	CONTACT
ELECTRIC (APS) CATV & FIBER OPTICS (COX COMMUNICATIONS) SEWER (CITY OF PHOENIX) WATER (CITY OF PHOENIX) COAXIAL & FIBER OPTICS (QWEST) NATURAL GAS (SOUTHWEST GAS)	AL BAIZEL(602)236-6203GWENDALYN GARCIA(623)328-3554GARY GRIFFIN(602)261-8363GARY GRIFFIN(602)261-8363CONFLICT LIASON(602)630-0492LEITH HOHNS(602)484-5017

# LEGAL DESCRITPION

EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA; EXCEPT THE SOUTH 33 FEET:

AND EXCEPT THAT PORT	
APN:	211-36-003B
ADDRESS:	4302 EAST LON CAVE CREEK, AF
LOT SIZE:	184,477 SqFt (4
ZONING:	S-1 (CURRENT) R-3 (PROPOSED
LOT COVERAGE:	59,787/184,477
EARTHWORK CALCS: TOTAL CUT	ТВА

- GRADING CONTRACTOR TO VERIFY

ENGINEERING NOTES:

NET

TOTAL FILL

1. TOPOGRAPHIC/BOUNDARY SURVEY WAS DONE BY OTHERS, S S E MAKES NO ASSURANCES TO THE ACCURACY OF CONTOURS. BOUNDARY LOCATIONS. OR EASEMENT LOCATIONS WITHIN SAID SURVEY.

2. THE BUILDING SETBACKS, ENVELOPE AND LOT COVERAGE ARE SHOWN PER THE ZONING DISTRICT. SETBACKS AND OTHER RESTRICTIONS CREATED BY AMENDED STANDARDS OR COVENANTS MAY BE APPLICABLE. FINAL INTERPRETATION IS THE RESPONSIBILITY OF THE OWNER OF SAID PROPERTY AND THE CORRESPONDING GOVERNMENTAL AGENCY OVERSEEING SAID PROPERTY.

3. WATERMAIN AND SEWER LOCATIONS ARE BASED ON INFORMATION PROVIDED BY THE TOPOGRAPHIC/BOUNDARY AND MONUMENTS FOUND IN THE FIELD MAY NOT BE EXACT. CONTRACTOR TO VERIFY ACTUAL SIZES. LOCATIONS AND TYPES OF ALL UTILITIES PRIOR TO CONSTRUCTION.

4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM BUILDING FOUNDATION FOR A MINIMUM OF 5% SLOPE FOR 10 FEET. NOTIFY ENGINEER OF ANY DISCREPANCIES.

5. ALL COMPACTION, EXCAVATION AND BACK FILL SHALL BE DONE IN ACCORDANCE WITH GEOTECHNICAL REPORT OR AT MINIMUM A 95% COMPACTION RATE IS REQUIRES PER ASTM D698.

#### PROPOSED SCOPE OF WORK CONSTRUCTION OF 24.047 Saft BUILDING PER BUILDING PLAN SET

CONSTRUCTION OF ON-SITE RETENTION BASIN PER GRADING & PLAN

# RETENTION CALCULATIONS

RETENTION VOLUME REQUIRED PRF VS Vr=C\*(P/12)\*A WHERE: V =VOLUME REQUI C = RUNOFF COFFP =100 YR-2HR I OF RAINFALL, A =AREA IN SQFT  $V_r = (0.47)(2.60/12)(184,477)$  $V_r = 19,091$  CF (Pre\_Agricultural Area)  $V_r = (0.60)(2.60/12)(184,477)$ V<sub>r</sub> = 24,372 CF (Post\_Multi-Family) TOTAL V<sub>r</sub> =5,180 CF

> V<sub>p</sub> = 9,73 AS-BUILT V

# ENGINEER

SSE 11826 NORTH WINCHESTER DRIVE FOUNTAIN HILLS, ARIZONA 85268 SSEAZ@Cox.Net PRINCIPLE: STEVE SEITZ PROJECT MANAGER: CLINT SCHERF SURVEYOR

PEW LAND SURVEYING, LLC P.O. BOX 18211 FOUNTAIN HILLS, AZ 85269

(480) 239-1807 SURVEY DATE: 4/26/14

BENCHMARK

BRASS CAP IN A HAND HOLE AT THE INTER MOUNTAIN ROAD MARKING THE SOUTH QUA 4 E. HAVING AN ELEVATION OF 1881.01 FEE

### SHEET INDEX

1. COVER SHEET

2. GRADING AND DRAINAGE PLAN

NOTICE TO THE CONTRACTOR IS REQUIRED MEASURES TO PROTECT THE UTILIT OTHER LINES NOT OF RECORD OR PLANS. THE CONTRACTOR SHALL B NOTIFYING "BLUE STAKE" AT 1-800 (1-800-782-5348) OR 602-263-PRIOR TO ANY EXCAVATION OR CON UTILITY LOCATIONS.

THE WEST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 18, TOWNSHIP 5 NORTH, RANGE 4

SETBACKS

FRONT REAR:

SIDE:

DOCUMENT NO. 96–0583899, MARICOPA COUNTY RECORDER.

NE MOUNTAIN ROAD RIZONA, 85331

(4.23 ACRES)

7 SqFt (32.4%)

**OWNERS** GREEN THUMB NURSERY, LLC PRINCIPALS: JEFFERY & LAURA MAY 4302 EAST LONE MOUNTAIN ROAD CAVE CREEK, ARIZONA 85331

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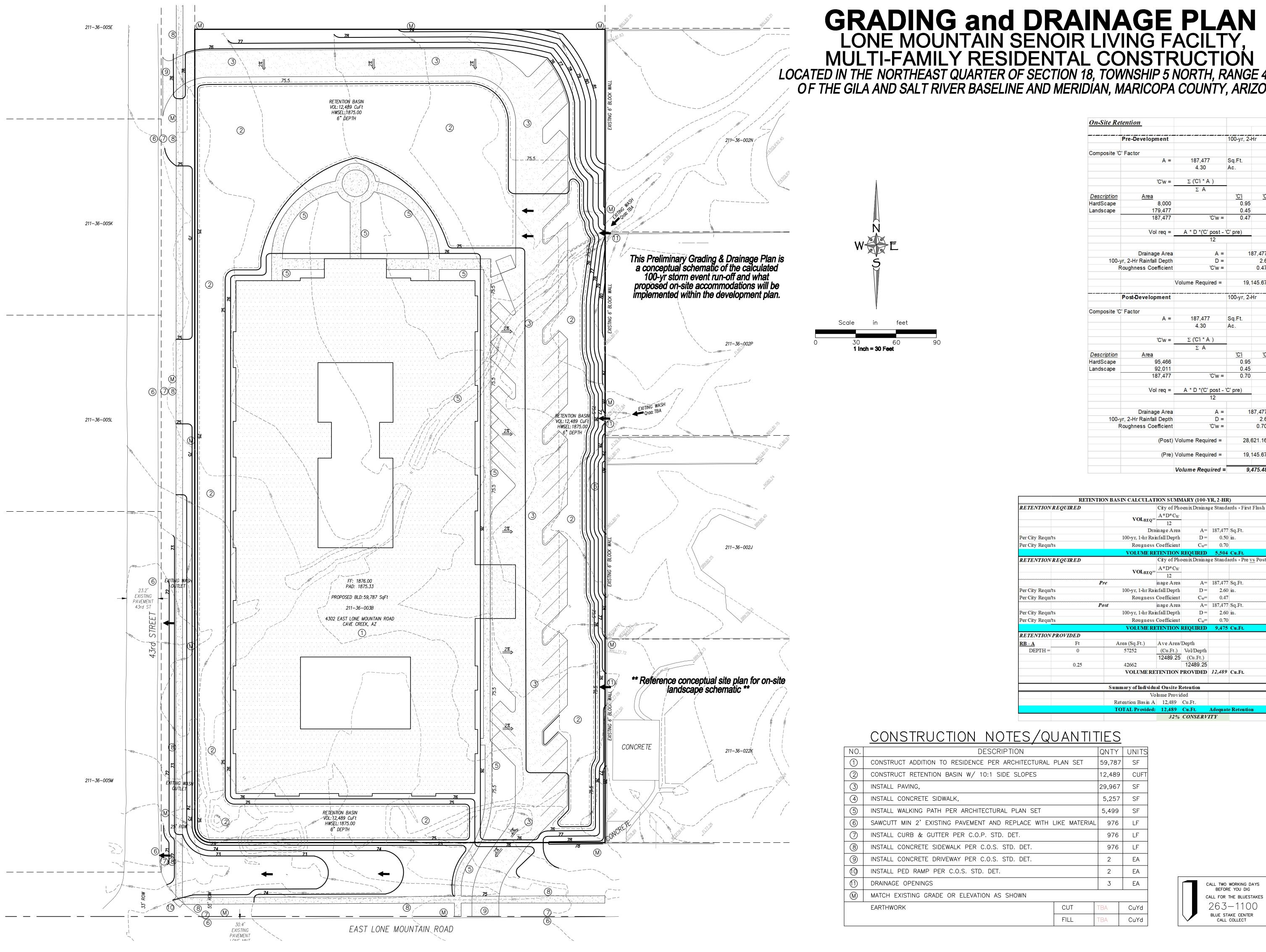
RAL

TBA Cu. Yd. (EXPORT) \* APPROXIMATE TOTALS, NOT FOR BID

- S.S.E. MAKES NO ASSURANCES AS TO THE FINAL EARTHWORK QUANTITIES

CONSTRUCTION OF PAVED DRIVEWAY AND PARKING AREA PER BUILDING PLAN SET

CALCULAI	<u>10N3</u>				48	•••	
PRE VS POST	RETENTION VOLUME REQUIRED	) FIRST_FLUSH					
DLUME REQUIRED NOFF COEFFICIENT 0 YR–2HR INTENSITY 7 RAINFALL, INCHES EA IN SQFT	CP	=VOLUME REQUIRED =RUNOFF COEFFICIENT =FIRST FLUSH OF RAINFALL, INCHES =AREA IN SQFT			PREU	IMINAR	(COD) 225-4920
Area)	V <sub>r</sub> =(0.60)(0.50/12)(184,477) V <sub>r</sub> = 4,687 CF	)					<b>2</b>
ily)						CATIFICATION STEVEN	NOILT MANAGER: ROJECT MANAGER: CLINT SCHERF (46
TOTAL RETENTION VOLUME PROV	<u>'IDED</u>				Ū	Redister	
V <sub>p</sub> = 9,736 CF AS-BUILT VOLUME V =	CF					NSTRIC	
				WORKING DAYS			
			BEFO	THE BLUESTAKES			
R DRIVE			BLUE S	TAKE CENTER			•
85268		[					DAD
SCHERF (480) 225-49	20	APPRO	VAL STA	MP	AN		UNTAIN ROAD
						ш	AIN
C					ᆸ	Ш	L NOZ
9							ARL
				M			
K (COP DA	<u>TUM)</u>					Й К	FOR ST LONE MOU PHOENIX, ARI
T THE INTERSECTION OF 44TH SOUTH QUARTER CORNER OF 1881.01 FEET CITY OF PHOEN	SECTION 18, T. 5 N., R.					8	EAST PHC
					-  IJ	Ŭ	
<u>X</u>							4302
GE PLAN				-			N
CONTRACT	ORS:				<u> </u>		
JIRED TO TAKE DUE PRI HE UTILITY LINES SHOWN				<	 ≮		
CORD OR NOT SHOWN C SHALL BE RESPONSIBLE		KIVA #			SCALE:	 N	N.T.S.
AT 1-800-STAKE IT 502-263-1100 TWO WC N OR CONSTRUCTION. FI		CRPR #	•			CT No.	-330-2014
		Q.S.	•		K Sheet:	C 1	of 02
		1					



# CONSTRUCTION NOTES/QUANTITIES

NO.	DESCRIPTION		QNTY	UNITS
1	CONSTRUCT ADDITION TO RESIDENCE PER ARCHITECTURAL	PLAN SET	59,787	SF
2	CONSTRUCT RETENTION BASIN W/ 10:1 SIDE SLOPES		12,489	CUFT
3	INSTALL PAVING,		29,967	SF
4	INSTALL CONCRETE SIDWALK,		5,257	SF
5	INSTALL WALKING PATH PER ARCHITECTURAL PLAN SET		5,499	SF
6	SAWCUTT MIN 2' EXISTING PAVEMENT AND REPLACE WITH I	LIKE MATERIAL	976	LF
$\bigcirc$	INSTALL CURB & GUTTER PER C.O.P. STD. DET.		976	LF
8	INSTALL CONCRETE SIDEWALK PER C.O.S. STD. DET.		976	LF
9	INSTALL CONCRETE DRIVEWAY PER C.O.S. STD. DET.		2	EA
$\bigcirc$	INSTALL PED RAMP PER C.O.S. STD. DET.		2	EA
1	DRAINAGE OPENINGS		3	EA
M	MATCH EXISTING GRADE OR ELEVATION AS SHOWN			
	EARTHWORK	CUT	TBA	CuYd
		FILL	TBA	CuYd

- a = =	187,47 0.5 0.7 <b>5,50</b> ge Stand 187,47 2.6 0.4 187,47 2.6 0.7 <b>9,47</b>	R)     lards - Firs     7     7     8     7     9     1 <t< th=""><th></th><th>Cu.Ft.</th><th>CIVIL ENGINEER (480)</th><th></th><th></th><th>O TEICATE</th><th>0.</th><th>n . Dot</th><th>COP OCIVES Service TON</th><th>(480) 225-4920</th></t<>		Cu.Ft.	CIVIL ENGINEER (480)			O TEICATE	0.	n . Dot	COP OCIVES Service TON	(480) 225-4920
A ('C'	7 A) 'C'w = post - 12 A = D = 'C'w = ired =	4	5	<u>I * A</u> 90,693 41,405 132,098 SqFt in 0.705 Cu.Ft.	225-4920 55LAZ@COX.NLT						RESIDENTIAL ~ COMMERCIAL	11826 NORTH WINCHESTER DRIVE FOUNTAIN HILLS, ARIZONA 85269
equ	12 A = D = 'C'w = ired =		187,477 2.6 0.47 ,145.67 -Hr	SqFt in 0.471 Cu.Ft.	DATE	05/14/14 F	05/28/14 F	06/25/14 R	10/01/14 R	10/25/17 R		PROJECT INFO -
47 30 * / A	7 A ) 'C'w =	100-yr, 2 Sq.Ft. Ac. <u>'C'i</u> 0.95 0.45 0.47	-Hr -Hr -	V/-1	DESCRIPTION	PRELIMINARY DRAFT	FIRST DRAFT - CITY OF PHOENIX SUBMITTAL	REVISED DRAFT - CITY OF PHOENIX SUBMITTAL	REVISED DRAFT - CITY OF PHOENIX SUBMITTAL	REVISED DRAFT - CITY OF PHOENIX SUBMITTAL		PLEASE CONTACT PROJECT MANAGER CLINT SCHERF (480) 225-4920
UN		ANG , ARI		VA								SCI

On-Site Re	tention				
	Pre-Development		100-yr, 2-	Hr	L
Composite 'C	C Factor				
•	A =	187,477	Sq.Ft.		
		4.30	Ac.		
	'C'w =	Σ ('C'i * A )			
	Cw-	ΣΑ			
Description	Area	2 6	'C'i	'C'I	* A
HardScape	8,000		0.95		7,600
Landscape	179,477		0.45		80,765
	187,477	'C'w =	0.47		88,365
	Vol req =	A * D *('C' post -	(C' pre)		
	Verreq	12			
	Drainage Area		1	87,477	SqFt
	yr, 2-Hr Rainfall Depth Roughness Coefficient	D = 'C'w =		2.6 0.47	in 0.471
F	Cougnness Coemcient	C w =		0.47	0.47
		Volume Required =	19,	145.67	Cu.Ft.
	Post-Development		100-yr, 2-	Hr	
Composite 'C		407 477	0 - 5		
	A =	187,477 4.30	Sq.Ft. Ac.		
		4.50	AC.		
	'C'w =	Σ ('C'i * A )			
		ΣΑ			
Description	Area		<u>'C'i</u>	<u>'C'I</u>	* A
HardScape	95,466		0.95		90,693
Landscape	92,011	101	0.45		41,405
	187,477	'C'w =	0.70		32,098
	Vol reg =	A * D *('C' post -	'C' pre)		
		12			
dina dite-	Drainage Area	A =	1	87,477	SqFt
	yr, 2-Hr Rainfall Depth	D =		2.6	in
ł	Roughness Coefficient	'C'w =		0.70	0.705
	(Post)	Volume Required =	28,	621.16	Cu.Ft.
	(Pre)	Volume Required =	19,	145.67	Cu.Ft.
		Volume Required =	9,	475.48	Cu.Ft.

	RETENTION	NBASIN CALCULAT	ION SUM	ARY (100-)	YR, 2-HR	()
<b>RETENTION RE</b>	QUIRED		City of Ph	oen ix Drain a	ge Standa	ards - First Flush
		VOL <sub>REQ</sub> =	A*D*C <sub>W</sub>			
		VOL <sub>REQ</sub> =	12			
		Dra	inage Area	A=	187,477	Sq.Ft.
Per City Reqm'ts		100-yr, 1-hr Rai	n fall Depth	D=	0.50	in.
Per City Reqm'ts		Rougness	Coefficient	C <sub>w</sub> =	0.70	
		VOLUME RE	TENTION	REQUIRED	5,504	Cu.Ft.
<b>RETENTION RE</b>	QUIRED		City of Ph	oen ix Drain a	ge Standa	ards - Pre <u>vs</u> Post
		V01	A*D*Cw			
		VOL <sub>REQ</sub> =	12			
	Pre	?	inage Area	A=	187,477	Sq.Ft.
Per City Reqm'ts		100-yr, 1-hr Rai	nfall Depth	D=	2.60	in.
Per City Reqm'ts		Rougness	Coefficient	C <sub>w</sub> =	0.47	
	Pos	t	inage Area	A=	187,477	Sq.Ft.
Per City Reqm'ts		100-yr, 1-hr Rai	n fall Depth	D =	2.60	in.
Per City Reqm'ts		Rougness	Coefficient	C <sub>w</sub> =	0.70	
		VOLUME RE	TENTION	REQUIRED	9,475	Cu.Ft.
RETENTION PR	OVIDED					
<u>RB - A</u>	Ft	Area (Sq.Ft.)	Ave Area/	Depth		
DEPTH =	0	57252		Vol/Depth		
			12489.25	. /		
	0.25	42662		12489.25		
		<b>VOLUME RE</b>	TENTION	PROVIDED	12,489	Cu.Ft.
		Summary of Individu				
			lume Provi	ded		
		Retention Basin A		Cu.Ft.		
		TOTAL Provided:	-			e Retention
			32%	CONSERV	ITY	

