DESIGN STANDARDS & PRINCIPLES for THE NORTHEAST MESA PUBLIC SAFETY FACILITY

Design Problem

How do we design an iconic public facility that encourages security and safety training, accommodating first responders and trainees for intense, high-stress duties while maintaining access and a welcoming environment for the public?

Design Solution

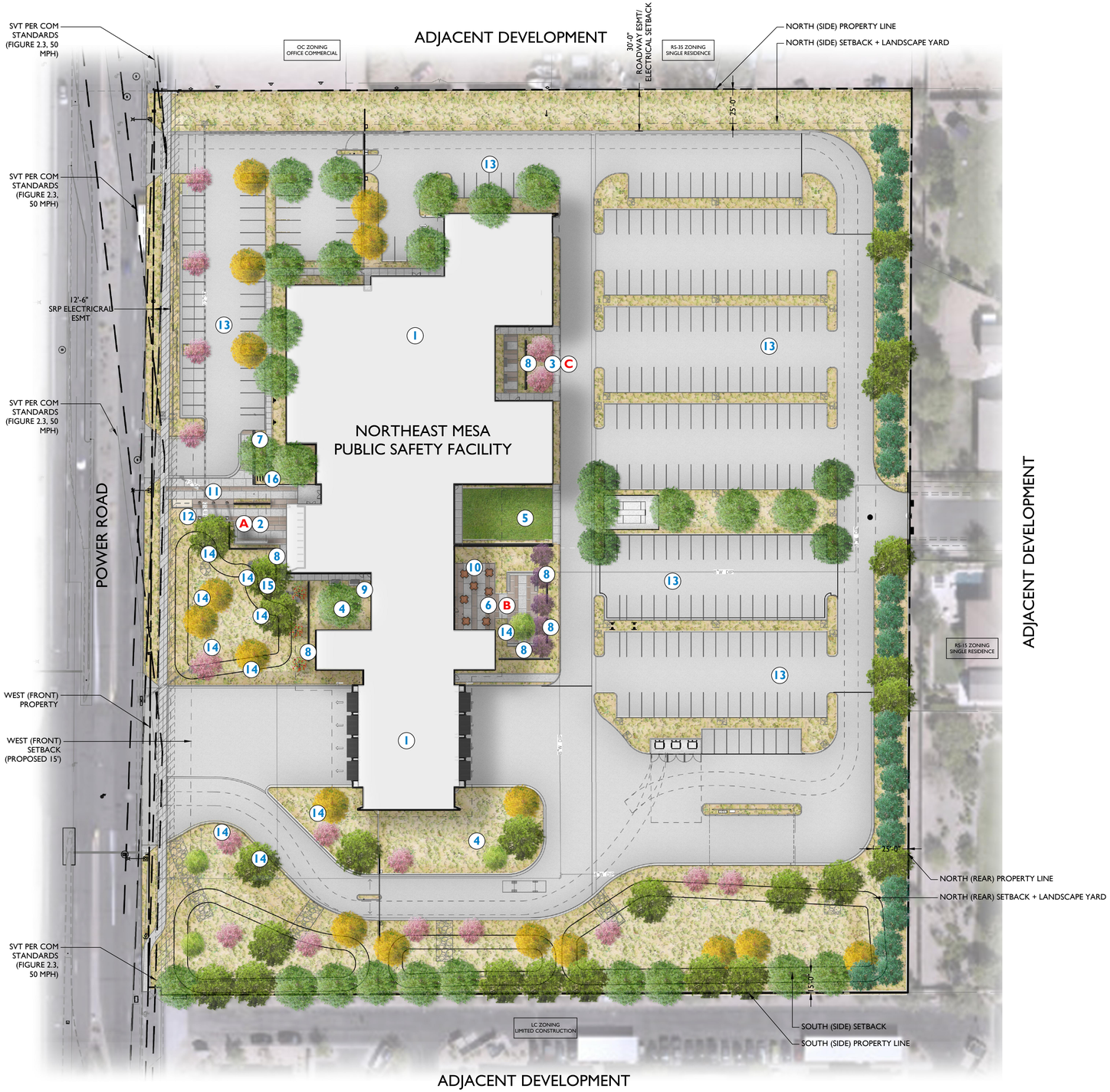
Provide a cohesive landscape with a contemporary and arid identity, with carefully laid-out and interconnected courtyards and shared spaces that encourage connection and restoration in a natural-feeling, colorful desert setting.

Design Principles

- Design elements such as gabion walls, concrete seat walls, boulders, and sculptural plant species that create a natural desert environment and respond to the building architecture to establish an iconic identity for the City of Mesa.
- Provide flexible spatial programming that allow opportunities for individual reflection or gathering for team-building exercises and mental-health breaks.
- Emphasize facility security using bollards, gabion walls, natural vegetation, and other materials to provide visual screening, physical barriers and a sense of enclosure for high-profile professionals in the public eye.
- Create spaces within the courtyards and entry plaza that enhance daily user experience of the campus for trainees, professionals and visitors though the introduction of artificial turf for outdoor training, seat walls, tables and chairs, landscape benches, and decorative pots, all under architectural shade elements.
- Embrace the connection to nature created by the unique character of the desert landscape and its potential for restoration and healing.

To distill the essence of this project and the design direction, we chose these seven words or phrases to guide the process.

1. Security
2. Iconic Identity
3. Visual Interest
4. Restorative
5. Arid
6. Training
7. Shade



KEYNOTES

1. NEW BUILDING
2. MAIN ENTRY PLAZA
3. POLICE ENTRY PLAZA
4. FIRE FIGHTER ENTRY AREA
5. OUTDOOR TRAINING AREA
6. DINING AND COLLABORATION PLAZA
7. MONUMENT SIGN
8. CMU BLOCK SCREEN WALL
9. OUTDOOR SEATING
10. OUTDOOR DINING
11. FLAGPOLE
12. DECORATIVE POTS
13. PARKING
14. 48" BOX TREE
15. (1) SALVAGED SAGUARO
16. BIKE RACK

AMENITIES

A ENTRY PLAZA
- BOLLARDS
- CMU BLOCK SCREEN WALLS
- DECORATIVE POTS
- FLAGPOLE
- SEATWALL
- LANDSCAPE BENCHES

B OUTDOOR TRANING COURYARD
- CMU BLOCK SCREEN WALLS
- TABLES & CHAIRS
- SEAT WALLS
- ARTIFICIAL TURF FOR TRAINING

C SECONDARY OUTDOOR COURTYARD
- CMU BLOCK SCREEN WALLS
- LANDSCAPE BENCHES

NORTH

0' 20' 40' 80'

SCALE: 1" = 40'-0"

PLANT LEGEND

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	QTY
TREES				
	Caesalpina cacalaco	Cascalote	24" Box	4
	Chilopsis linearis 'Lucretia Hamilton'	'Lucretia Hamilton' Desert Willow	24" Box	17
	Olneya tesota	Ironwood	24" Box	24
	Parkinsonia x 'Desert Museum'	Desert Museum Palo Verde	36" Box	18
	Prosopis hybrid 'Phoenix'	Thornless Mesquite	24" Box	4
	Sophora secundiflora	Texas Mountain Laurel	48" Box	5
	Ulmus parvifolia	Chinese Evergreen Elm	24" Box	26

SHRUBS/ACCENTS	COMMON NAME	SIZE
Abutilon palmeri	Indian Mallow	5 Gal
Asclepias subulata	Desert Milkweed	5 Gal
Agave desmettiana	Smooth Agave	5 Gal
Agave parryi v. truncata	Artichoke Agave	5 Gal
Aloe hybrid 'Blue Elf'	Blue Elf Aloe	5 Gal
Bouteloua gracillis	Blonde Ambition	5 Gal
Calliandra californica	Baja Fairy Duster	5 Gal
Dasylirion wheeleri	Desert Spoon	5 Gal
Echinocactus grusonii	Golden Barrel Cactus	5 Gal
Ericameria larcifolia 'Aguirre'	Turpentine Bush	5 Gal
Fouquieria spendens	Ocotillo	10 Cane
Hesperaloe parviflora 'Brakelights'	Brakelights Red Yucca	5 Gal
Justicia californica	Chuparosa	5 Gal
Larrea tridentata	Creosote Bush	5 Gal
Leucophyllum langmaniae 'Rio Bravo'	Rio Bravo Sage	5 Gal
Pachycereus schottii f. monstrosus	Totem Pole Cactus	5 Gal
Ruellia pennisularis	Desert Ruellia	5 Gal
Simmondsia chinensis 'Vista'	Compact Jojoba	5 Gal
Stenocereus thuberi	Organ Pipe Cactus	5 Gal
Tecoma x 'Sierra Apricot'	Sierra Apricot Tecoma	5 Gal
Yucca pallida	Pale Leaf Yucca	5 Gal
Existing Saguaro to Be Relocated		

GROUNDCOVERS	COMMON NAME	SIZE
Eremophila prostrata 'Outback Sunrise'	'Outback Sunrise'	1 Gal
Lantana montevidensis	Trailing Purple Lantana	1 Gal
Lantana x 'New Gold'	New Gold Lantana	1 Gal

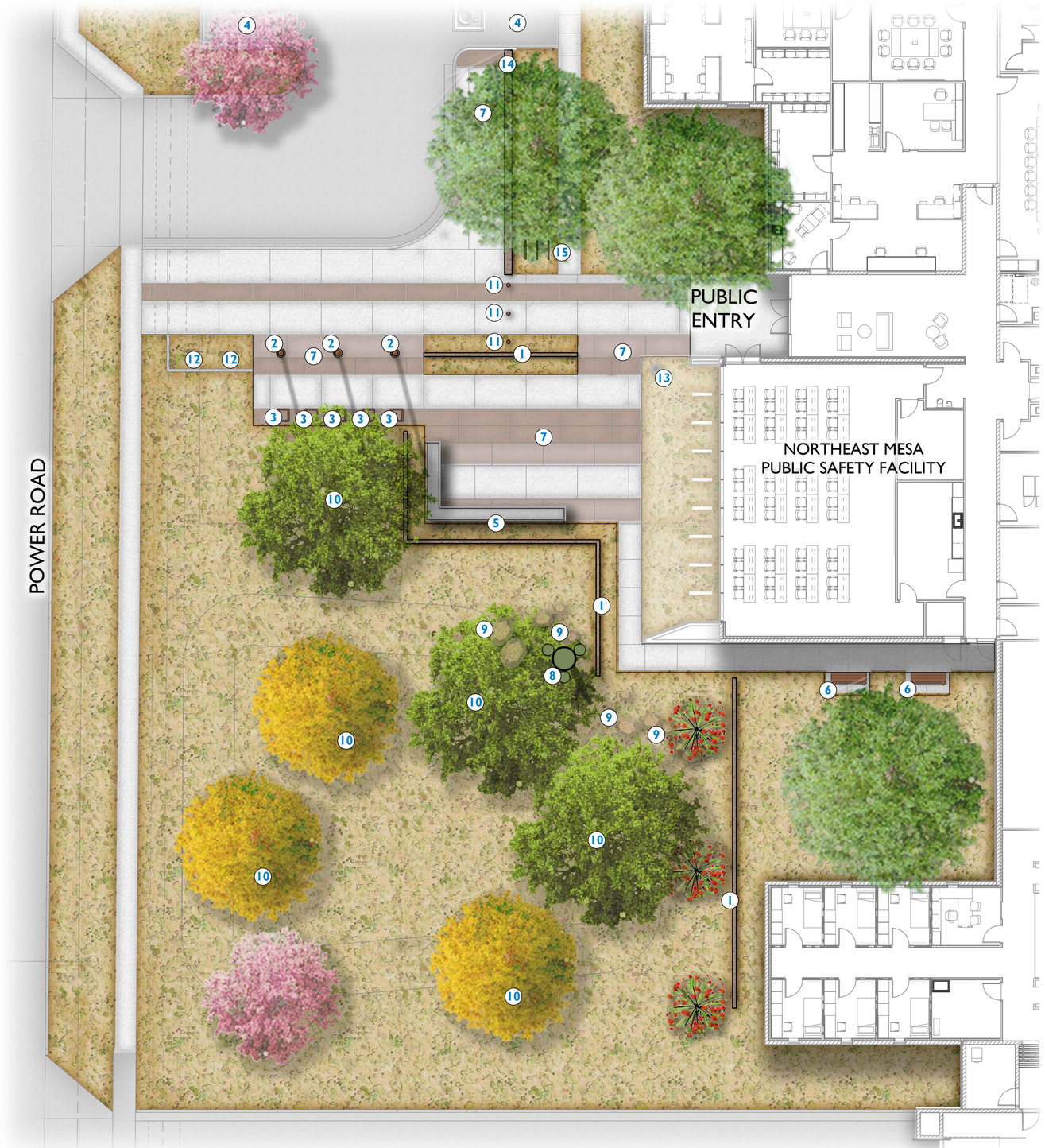
MATERIALS

Decomposed Granite with Planting

Artificial Turf

CITY OF MESA PLANT DATA

POWER RD (408 L.F.)	REQUIRED	PROVIDED
6 SHRUBS PER 25 LF NO TREE PLANTING PER SRP ELECTRICAL EASEMENT	97 SHRUBS	97 SHRUBS
NORTHERN PERIMETER (540 L.F.)	**REQUIRED**	**PROVIDED**
NO PLANTING IN ROADWAY ESMT/ SRP ELECTRICAL SETBACK		
EASTERN PERIMETER (633 L.F.)	**REQUIRED**	**PROVIDED**
5 NON-DECIDUOUS TREES PER 100 L.F.	31 TREES	31 TREES
SOUTHERN PERIMETER (540 L.F.)	**REQUIRED**	**PROVIDED**
3 NON-DECIDUOUS TREES PER 100 L.F. 20 SHRUBS PER 100 L.F.	18 TREES 108 SHRUBS	18 TREES 108 SHRUBS
FOUNDATION BASE (1,575 LF.)	**REQUIRED**	**PROVIDED**
1 TREE PER 50 L.F. OF EXTERIOR BUILDING WALL	32 TREES	32 TREES
TREE SIZE	**REQUIRED**	**PROVIDED**
25% OF TREES TO BE 36" BOX SIZE TREES 50% OF TREES TO BE 24" BOX SIZE TREES	30 TREES 60 TREES	30 TREES 91 TREES



KEYNOTES

1. CMU BLOCK SCREEN WALL
2. FLAGPOLE
3. DECORATIVE POTS
4. PARKING
5. SEATWALL
6. LANDSCAPE BENCH
7. INTEGRAL COLOR DECORATIVE CONCRETE
8. (1) SALVAGED SAGUARO
9. DECORATIVE LANDSCAPE BOULDERS
10. 48" BOX TREE
11. BOLLARD
12. BIKE RACK
13. TRASH RECEPTACLE
14. MONUMENT SIGN
15. BIKE RACK

PLANT LEGEND

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
TREES			
	Acacia salicina	Willow Acacia	24" Box
	Caesalpina cacalaco	Cascalote	24" Box
	Chilopsis linearis 'Lucretia Hamilton'	'Lucretia Hamilton' Desert Willow	24" Box
	Olneya tesota	Ironwood	24" Box
	Parkinsonia x 'Desert Museum'	Desert Museum Palo Verde	36" Box
	Prosopis hybrid 'Phoenix'	Thornless Mesquite	24" Box
	Sophora secundiflora	Texas Mountain Laurel	48" Box
	Ulmus parvifolia	Chinese Evergreen Elm	24" Box

SHRUBS/ACCENTS	COMMON NAME	SIZE
Abutilon palmeri	Indian Mallow	5 Gal
Asclepias subulata	Desert Milkweed	5 Gal
Agave desmettiana	Smooth Agave	5 Gal
Agave parryi v. truncata	Artichoke Agave	5 Gal
Aloe hybrid 'Blue Elf'	Blue Elf Aloe	5 Gal
Bouteloua gracillis	Blonde Ambition	5 Gal
Calliandra californica	Baja Fairy Duster	5 Gal
Dasylirion wheeleri	Desert Spoon	5 Gal
Echinocactus grusonii	Golden Barrel Cactus	5 Gal
Ericameria larcifolia 'Aguirre'	Turpentine Bush	5 Gal
Fouquieria spendens	Ocotillo	10 Cane
Hesperaloe parviflora 'Brakelights'	Brakelights Red Yucca	5 Gal
Justicia californica	Chuparosa	5 Gal
Larrea tridentata	Creosote Bush	5 Gal
Leucophyllum langmaniae 'Rio Bravo'	Rio Bravo Sage	5 Gal
Pachycereus schottii f. monstrosus	Totem Pole Cactus	5 Gal
Ruellia pennisularis	Desert Ruellia	5 Gal
Simmondsia chinensis 'Vista'	Compact Jojoba	5 Gal
Stenocereus thuberi	Organ Pipe Cactus	5 Gal
Tecoma x 'Sierra Apricot'	Sierra Apricot Tecoma	5 Gal
Yucca pallida	Pale Leaf Yucca	5 Gal
Existing Saguaro to Be Relocated		

GROUNDCOVERS	COMMON NAME	SIZE
Eremophila prostrata 'Outback Sunrise'	'Outback Sunrise'	1 Gal
Lantana montevidensis	Trailing Purple Lantana	1 Gal
Lantana x 'New Gold'	New Gold Lantana	1 Gal

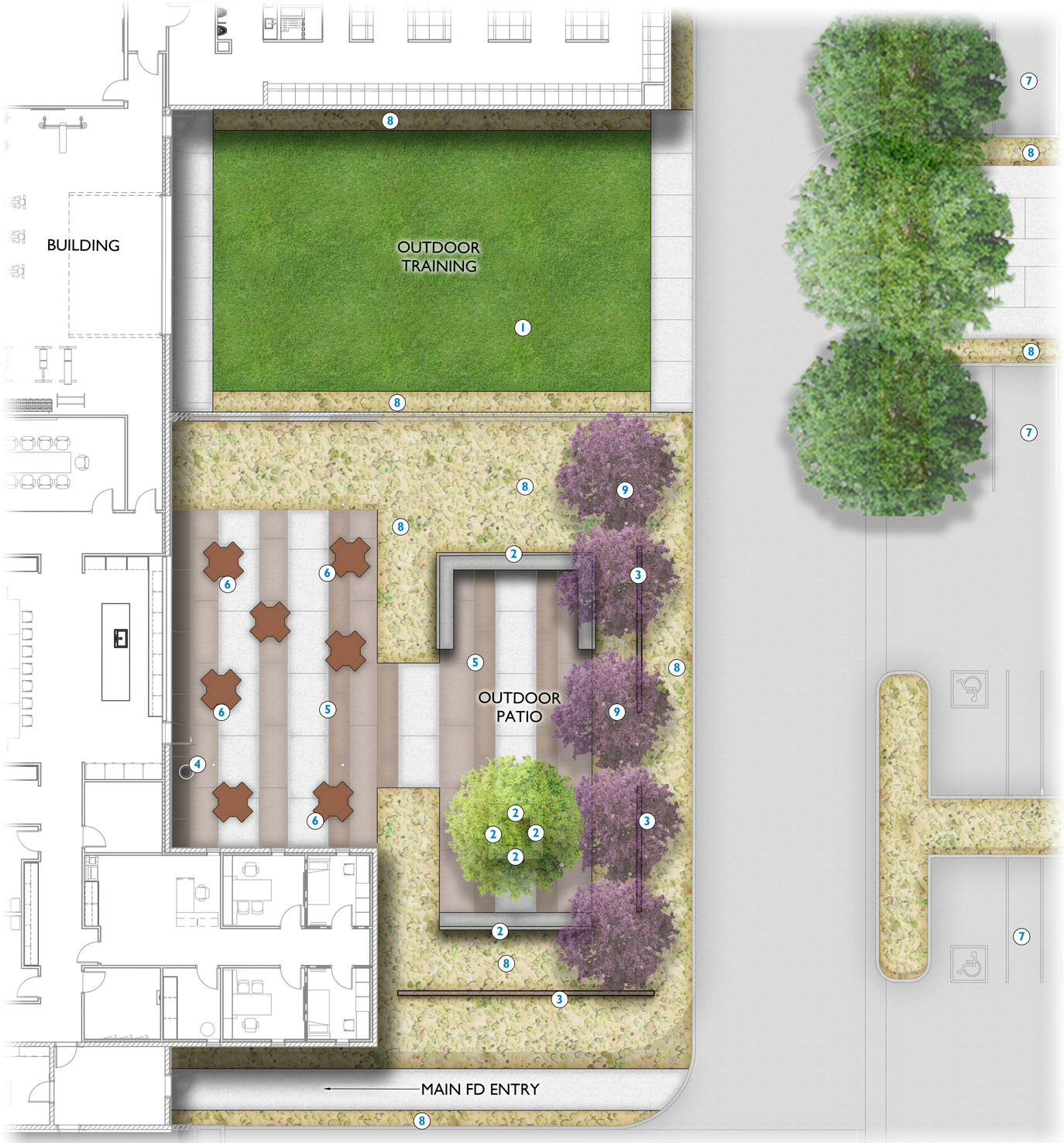
MATERIALS

- Decomposed Granite with Planting
- Artificial Turf

NORTH

0' 5' 10' 20'

SCALE: 1" = 10'-0"



KEYNOTES

1. ARTIFICIAL TURF TRAINING AREA
2. SEAT WALL
3. CMU BLOCK SCREEN WALL
4. TRASH RECEPTACLE
5. DECORATIVE INTEGRAL COLOR CONCRETE
6. OUTDOOR DINING TABLES AND CHAIRS
7. PARKING
8. PLANTING AREA
9. 48" BOX TREE

PLANT LEGEND

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
TREES			
	Acacia salicina	Willow Acacia	24" Box
	Caesalpina cacalaco	Cascalote	24" Box
	Chilopsis linearis 'Lucretia Hamilton'	'Lucretia Hamilton' Desert Willow	24" Box
	Olneya tesota	Ironwood	24" Box
	Parkinsonia x 'Desert Museum'	Desert Museum Palo Verde	36" Box
	Prosopis hybrid 'Phoenix'	Thornless Mesquite	24" Box
	Sophora secundiflora	Texas Mountain Laurel	48" Box
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Agave parryi v. truncata	Artichoke Agave	5 Gal
Aloe hybrid 'Blue Elf'	Blue Elf Aloe	5 Gal
Bouteloua gracillis	Blonde Ambition	5 Gal
Calliandra californica	Baja Fairy Duster	5 Gal
Dasylirion wheeleri	Desert Spoon	5 Gal
Echinocactus grusonii	Golden Barrel Cactus	5 Gal
Ericameria larcifolia 'Aguirre'	Turpentine Bush	5 Gal
Fouquieria spendens	Ocotillo	10 Cane
Hesperaloe parviflora 'Brakelights'	Brakelights Red Yucca	5 Gal
Justicia californica	Chuparosa	5 Gal
Larrea tridentata	Creosote Bush	5 Gal
Leucophyllum langmaniae 'Rio Bravo'	Rio Bravo Sage	5 Gal
Pachycereus schottii f. monstrosus	Totem Pole Cactus	5 Gal
Ruellia pennisularis	Desert Ruellia	5 Gal
Simmondsia chinensis 'Vista'	Compact Jojoba	5 Gal
Stenocereus thuberi	Organ Pipe Cactus	5 Gal
Tecoma x 'Sierra Apricot'	Sierra Apricot Tecoma	5 Gal
Yucca pallida	Pale Leaf Yucca	5 Gal
Existing Saguaro to Be Relocated		

GROUNDCOVERS	COMMON NAME	SIZE
Eremophila prostrata 'Outback Sunrise'	'Outback Sunrise'	1 Gal
Lantana montevidensis	Trailing Purple Lantana	1 Gal
Lantana x 'New Gold'	New Gold Lantana	1 Gal

MATERIALS

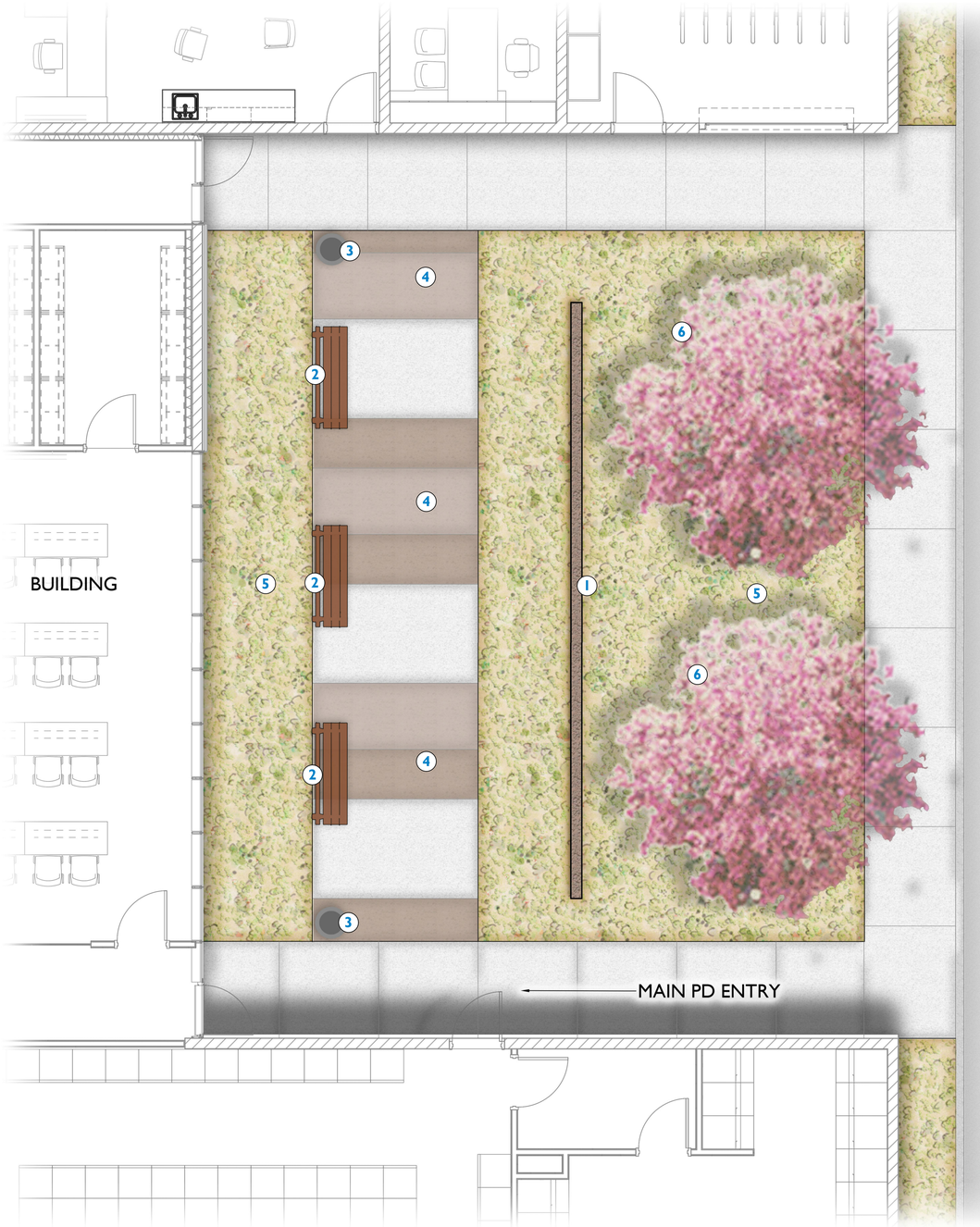
Decomposed Granite with Planting

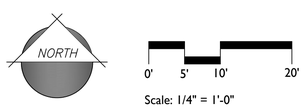
Artificial Turf

NORTH

0' 5' 10' 20'

SCALE: 1" = 10'-0"





Scale: 1/4" = 1'-0"

KEYNOTES

1. CMU BLOCK SCREEN WALL
2. LANDSCAPE BENCH
3. TRASH RECEPTACLE
4. INTEGRAL COLOR DECORATIVE CONCRETE
5. PLANTING AREA
6. 48" BOX TREE

PLANT LEGEND

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
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Stenocereus thuberi	Organ Pipe Cactus	5 Gal
Tecoma x 'Sierra Apricot'	Sierra Apricot Tecoma	5 Gal
Yucca pallida	Pale Leaf Yucca	5 Gal
Existing Saguaro to Be Relocated		

GROUNDCOVERS	COMMON NAME	SIZE
Eremophila prostrata 'Outback Sunrise'	'Outback Sunrise'	1 Gal
Lantana montevidensis	Trailing Purple Lantana	1 Gal
Lantana x 'New Gold'	New Gold Lantana	1 Gal

MATERIALS

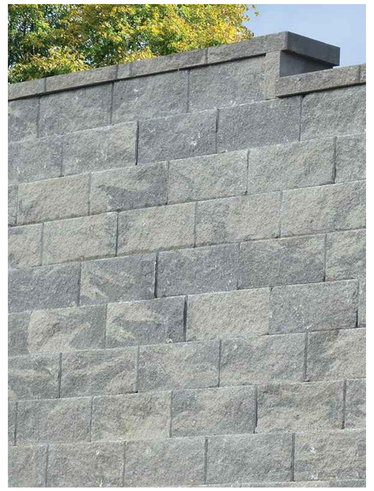
Decomposed Granite with Planting

Artificial Turf

LANDSCAPE CHARACTER IMAGERY

CONTEMPORARY LINEAR PAVING PATTERN AND MATERIALS

CONTEMPORARY LINEAR PAVING PATTERN AND MATERIALS

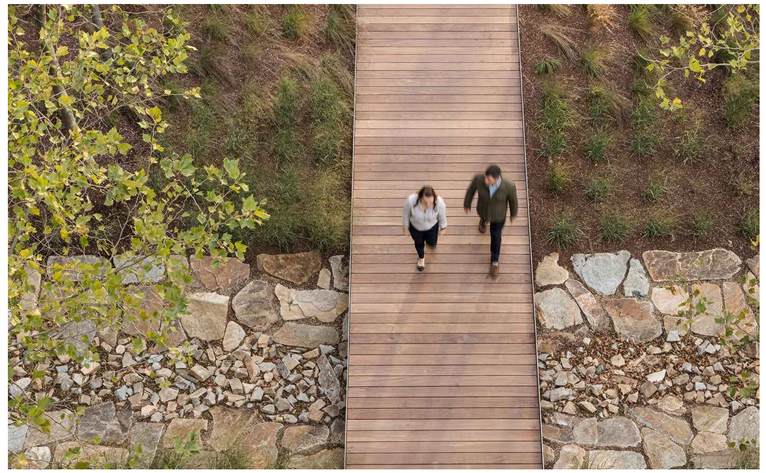


CMU BLOCK SCREEN WALL

DECORATIVE LANDSCAPE POTS

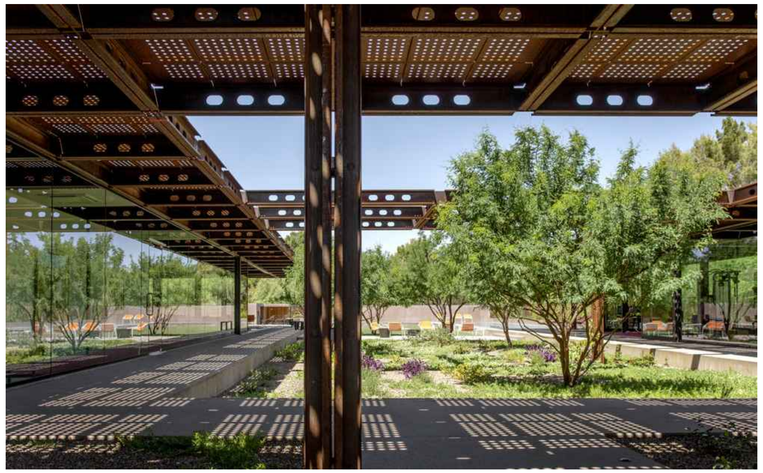
LANDSCAPE DESIGN AESTHETIC

COLORFUL, SCULPTURAL MONOCULTURE PLANTING



MODERN DESERT MATERIALS

LANDSCAPE CHARACTER IMAGERY



ENCLOSED COURTYARD WITH NATURALISTIC ARID PLANTING

SEMI-PRIVATE GROUP GATHERING SPACE

SHADED OUTDOOR TRAINING AREA

OUTDOOR DINING AND SOCIALIZATION SPACE

SEMI-PRIVATE OUTDOOR SEATING AREA

OUTDOOR GROUP FLEX SPACE

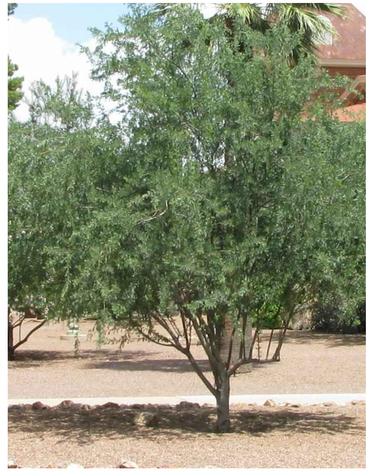
LANDSCAPE IMAGERY CHARACTER - TREES

MULGA
Acacia anuera

WILLOW ACACIA
Acacia salicina

WHITE ORCHID TREE
Bauhinia lunarioides

DESERT WILLOW
Chilopsis linearis 'Lucretia Hamilton'

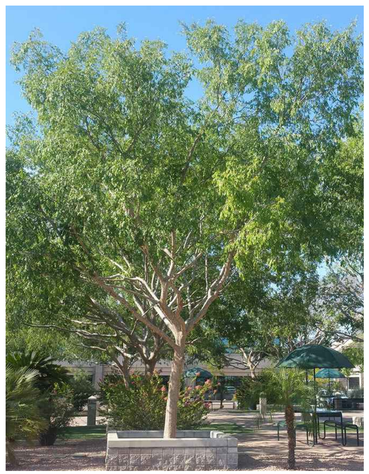


IRONWOOD
Olneya tesota

DESERT MUSEUM PALO VERDE
Parkinsonia x 'Desert Museum'

THORNLESS MESQUITE
Prosopis hybrid 'Phoenix'

TEXAS MOUNTAIN LAUREL
Sophora secundiflora



CHINESE EVERGREEN ELM
Ulmus parvifolia

CASCALOTE
Caesalpina cacalaco

LANDSCAPE IMAGERY CHARACTER - SHRUBS AND ACCENTS

INDIAN MALLOW
Abutilon palmeri

DESERT MILKWEED
Asclepias subulata

DESERT SPOON
Dasylirion wheeleri

BLONDE AMBITION
Bouteloua gracillis

RIO BRAVO SAGE
Leucophyllum langmaniae 'Rio Bravo'

TOTEM POLE CACTUS
Pachycereus schottii f. monstrosus

BAJA FAIRY DUSTER
Calliandra californica

SMOOTH AGAVE
Agave desmettiana

GOLDEN BARREL CACTUS
Echinocactus grusonii

TURPENTINE BUSH
Ericameria larcifolia 'Aguirre'

ARTICHOKE AGAVE
Agave parryi v. truncata

BLUE ELF ALOE
Aloe hybrid 'Blue Elf'

LANDSCAPE IMAGERY CHARACTER - SHRUBS, ACCENTS, AND GROUND COVER

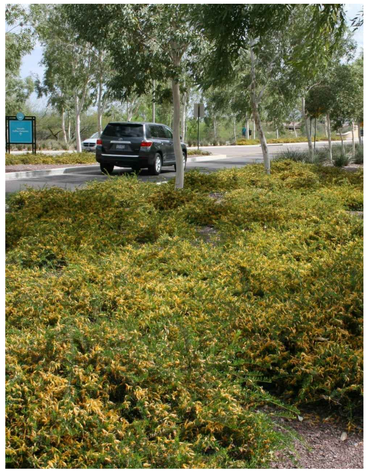
DESERT RUELLIA
Ruellia pennisularis

COMPACT JOJOBA
Simmondsia chinensis 'Vista'

ORGAN PIPE CACTUS
Stenocereus thurberi

SIERRA APRICOT TECOMA
Tecoma x 'Sierra Apricot'

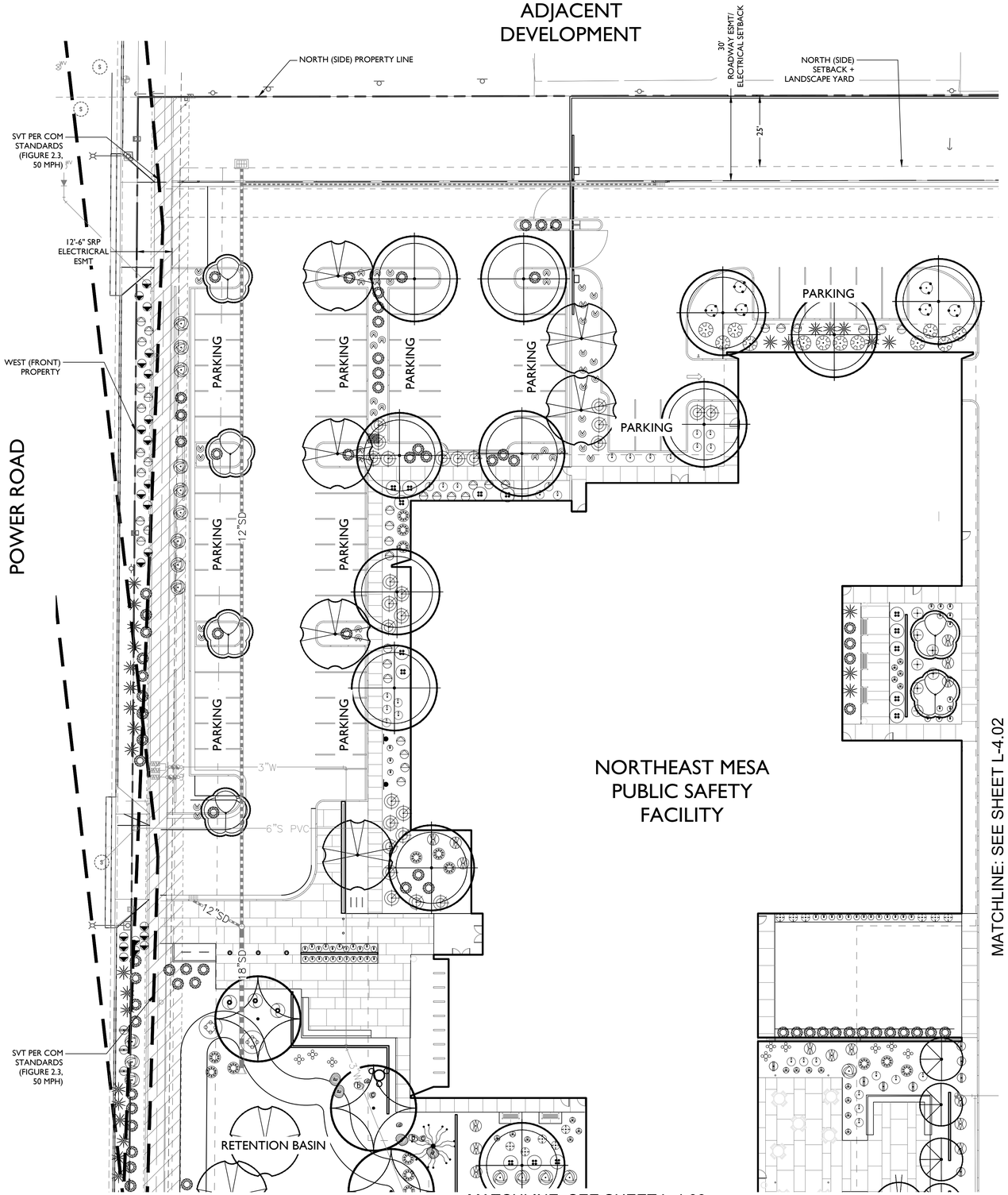
PALE LEAF YUCCA
Yucca pallida



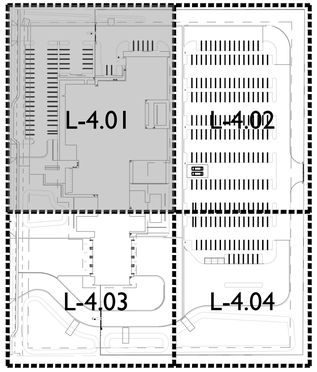
OUTBACK SUNRISE
Eremophila prostrata 'Outback Sunrise'

TRAILING PURPLE LANTANA
Lantana montevidensis

NEW GOLD LANTANA
Lantana x 'New Gold'



KEY MAP



PLANT LEGEND

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	Sophora secundiflora	Texas Mountain Laurel	24" Box	5
	Ulmus parvifolia	Chinese Evergreen Elm	36" Box	26

SHRUBS/ACCENTS	COMMON NAME	SIZE	QTY
Abutilon palmeri	Indian Mallow	5 Gal	46
Asclepias subulata	Desert Milkweed	5 Gal	41
Agave desmettiana	Smooth Agave	5 Gal	28
Agave parryi v. truncata	Artichoke Agave	5 Gal	11
Aloe hybrid 'Blue Elf'	Blue Elf Aloe	5 Gal	50
Bouteloua gracillis	Blonde Ambition	5 Gal	124
Calliandra californica	Baja Fairy Duster	5 Gal	53
Dasylirion wheeleri	Desert Spoon	5 Gal	86
Echinocactus grusonii	Golden Barrel Cactus	5 Gal	26
Ericameria larcifolia 'Aguirre'	Turpentine Bush	5 Gal	19
Fouquieria spendens	Ocotillo	10 Cane	12
Hesperaloe parviflora 'Brakelights'	Brakelights Red Yucca	5 Gal	98
Justicia californica	Chuparosa	5 Gal	48
Larrea tridentata	Creosote Bush	5 Gal	45
Leucophyllum langmaniae 'Rio Bravo'	Rio Bravo Sage	5 Gal	85
Pachycereus schottii f. monstrosus	Totem Pole Cactus	5 Gal	22
Ruellia pennisularis	Desert Ruellia	5 Gal	17
Simmondsia chinensis 'Vista'	Compact Jojoba	5 Gal	7
Stenocereus thuberi	Organ Pipe Cactus	5 Gal	12
Tecoma x 'Sierra Apricot'	Sierra Apricot Tecoma	5 Gal	30
Yucca pallida	Pale Leaf Yucca	5 Gal	19
Existing Saguaro to Be Relocated			1

GROUNDCOVERS	COMMON NAME	SIZE	QTY
Eremophila prostrata 'Outback Sunrise'	'Outback Sunrise'	1 Gal	108
Lantana montevidensis	Trailing Purple Lantana	1 Gal	127
Lantana x 'New Gold'	New Gold Lantana	1 Gal	43

CITY OF MESA PLANT DATA

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FOUNDATION BASE (1,575 LF.)	**REQUIRED**	**PROVIDED**
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TREE SIZE	**REQUIRED**	**PROVIDED**
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www.epsgroupinc.com

Project:
NORTHEAST MESA PUBLIC SAFETY FACILITY
N Power Rd & E Halifax Dr
Mesa, AZ

PLANTING PLAN

Revisions:
07/11/2022- DESIGN DEVELOPMENT SUBMITTAL

Call at least two full working days before you begin excavation
ARIZONA811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602)263-1100

Designer: VB
Drawn by: SY, CD

Preliminary
Not For
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Or
Recording

Job No.
20-0087

CONSTRUCTION DOCUMENTATION

Sheet No.
L-4.01
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20-0087
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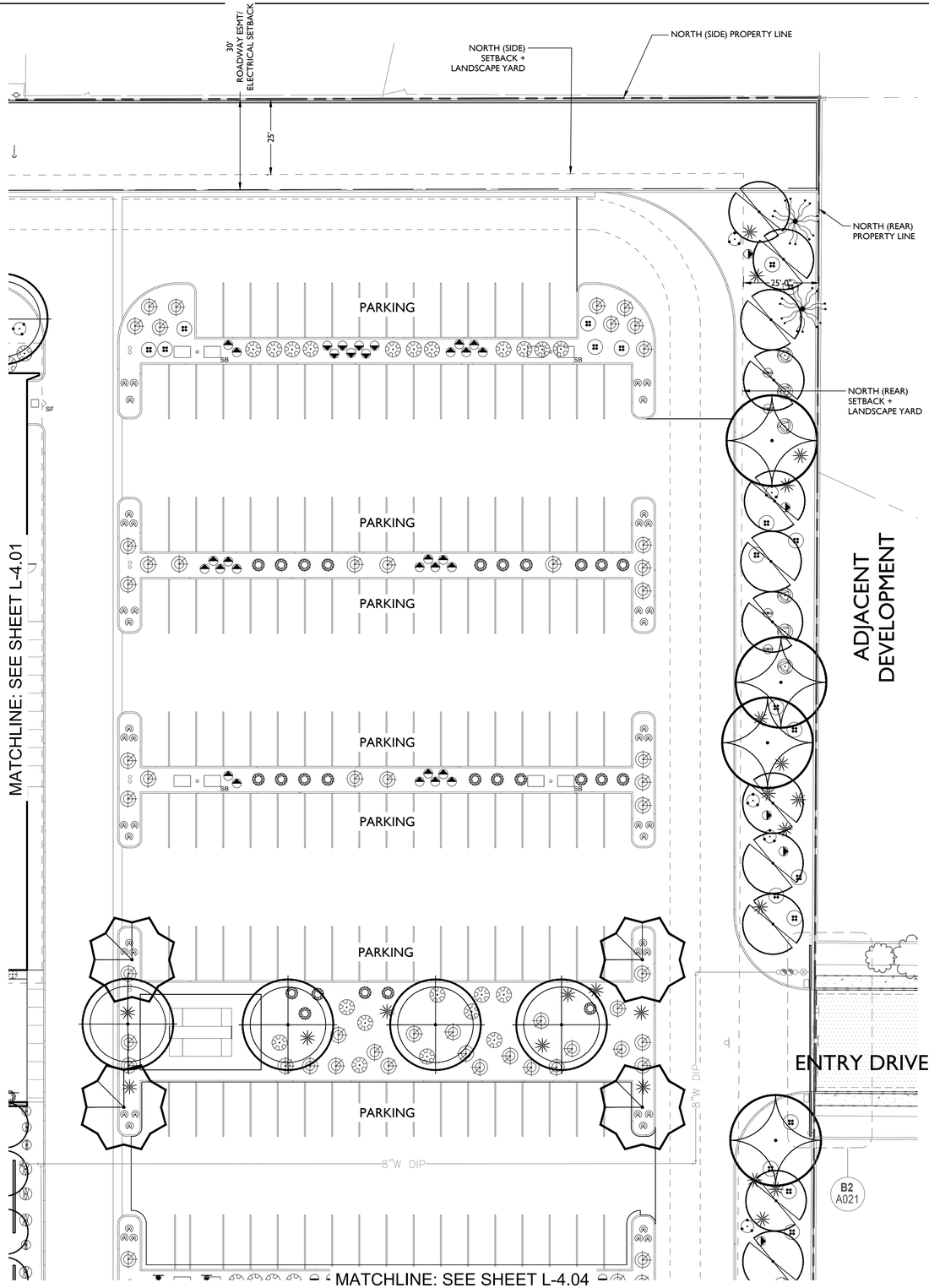
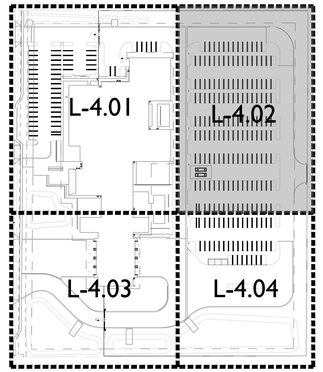


KEY MAP



PLANT LEGEND

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	QTY
TREES				
	Acacia salicina	Willow Acacia	24" Box	23
	Caesalpina cacalaco	Cascalote	24" Box	4
	Chilopsis linearis 'Lucretia Hamilton'	'Lucretia Hamilton' Desert Willow	24" Box	17
	Olneya tesota	Ironwood	24" Box	24
	Parkinsonia x 'Desert Museum'	Desert Museum Palo Verde	36" Box	18
	Prosopis hybrid 'Phoenix'	Thornless Mesquite	36" Box	4
	Sophora secundiflora	Texas Mountain Laurel	24" Box	5
	Ulmus parvifolia	Chinese Evergreen Elm	36" Box	26

SHRUBS/ACCENTS	COMMON NAME	SIZE	QTY
Abutilon palmeri	Indian Mallow	5 Gal	46
Asclepias subulata	Desert Milkweed	5 Gal	41
Agave desmettiana	Smooth Agave	5 Gal	28
Agave parryi v. truncata	Artichoke Agave	5 Gal	11
Aloe hybrid 'Blue Elf'	Blue Elf Aloe	5 Gal	50
Bouteloua gracillis	Blonde Ambition	5 Gal	124
Calliandra californica	Baja Fairy Duster	5 Gal	53
Dasylirion wheeleri	Desert Spoon	5 Gal	86
Echinocactus grusonii	Golden Barrel Cactus	5 Gal	26
Ericameria larcifolia 'Aguirre'	Turpentine Bush	5 Gal	19
Fouquieria spendens	Ocotillo	10 Cane	12
Hesperaloe parviflora 'Brakelights'	Brakelights Red Yucca	5 Gal	98
Justicia californica	Chuparosa	5 Gal	48
Larrea tridentata	Creosote Bush	5 Gal	45
Leucophyllum langmaniae 'Rio Bravo'	Rio Bravo Sage	5 Gal	85
Pachycereus schottii f. monstrosus	Totem Pole Cactus	5 Gal	22
Ruellia pennisularis	Desert Ruellia	5 Gal	17
Simmondsia chinensis 'Vista'	Compact Jojoba	5 Gal	7
Stenocereus thuberi	Organ Pipe Cactus	5 Gal	12
Tecoma x 'Sierra Apricot'	Sierra Apricot Tecoma	5 Gal	30
Yucca pallida	Pale Leaf Yucca	5 Gal	19
Existing Saguaro to Be Relocated			1

GROUNDCOVERS	COMMON NAME	SIZE	QTY
Eremophila prostrata 'Outback Sunrise'	'Outback Sunrise'	1 Gal	108
Lantana montevidensis	Trailing Purple Lantana	1 Gal	127
Lantana x 'New Gold'	New Gold Lantana	1 Gal	43

CITY OF MESA PLANT DATA

POWER RD (408 L.F.)	REQUIRED	PROVIDED
6 SHRUBS PER 25 LF NO TREE PLANTING PER SRP ELECTRICAL EASEMENT	97 SHRUBS	97 SHRUBS
NORTHERN PERIMETER (540 L.F.)	**REQUIRED**	**PROVIDED**
NO PLANTING IN ROADWAY ESMT/ SRP ELECTRICAL SETBACK		
EASTERN PERIMETER (633 L.F.)	**REQUIRED**	**PROVIDED**
5 NON-DECIDUOUS TREES PER 100 L.F.	31 TREES	31 TREES
SOUTHERN PERIMETER (540 L.F.)	**REQUIRED**	**PROVIDED**
3 NON-DECIDUOUS TREES PER 100 L.F. 20 SHRUBS PER 100 L.F.	18 TREES 108 SHRUBS	18 TREES 108 SHRUBS
FOUNDATION BASE (1,575 LF.)	**REQUIRED**	**PROVIDED**
1 TREE PER 50 L.F. OF EXTERIOR BUILDING WALL	32 TREES	32 TREES
TREE SIZE	**REQUIRED**	**PROVIDED**
25% OF TREES TO BE 36" BOX SIZE TREES 50% OF TREES TO BE 24" BOX SIZE TREES	30 TREES 60 TREES	30 TREES 91 TREES

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'-0"

EPS GROUP
1130 N. Alma School, Suite 120
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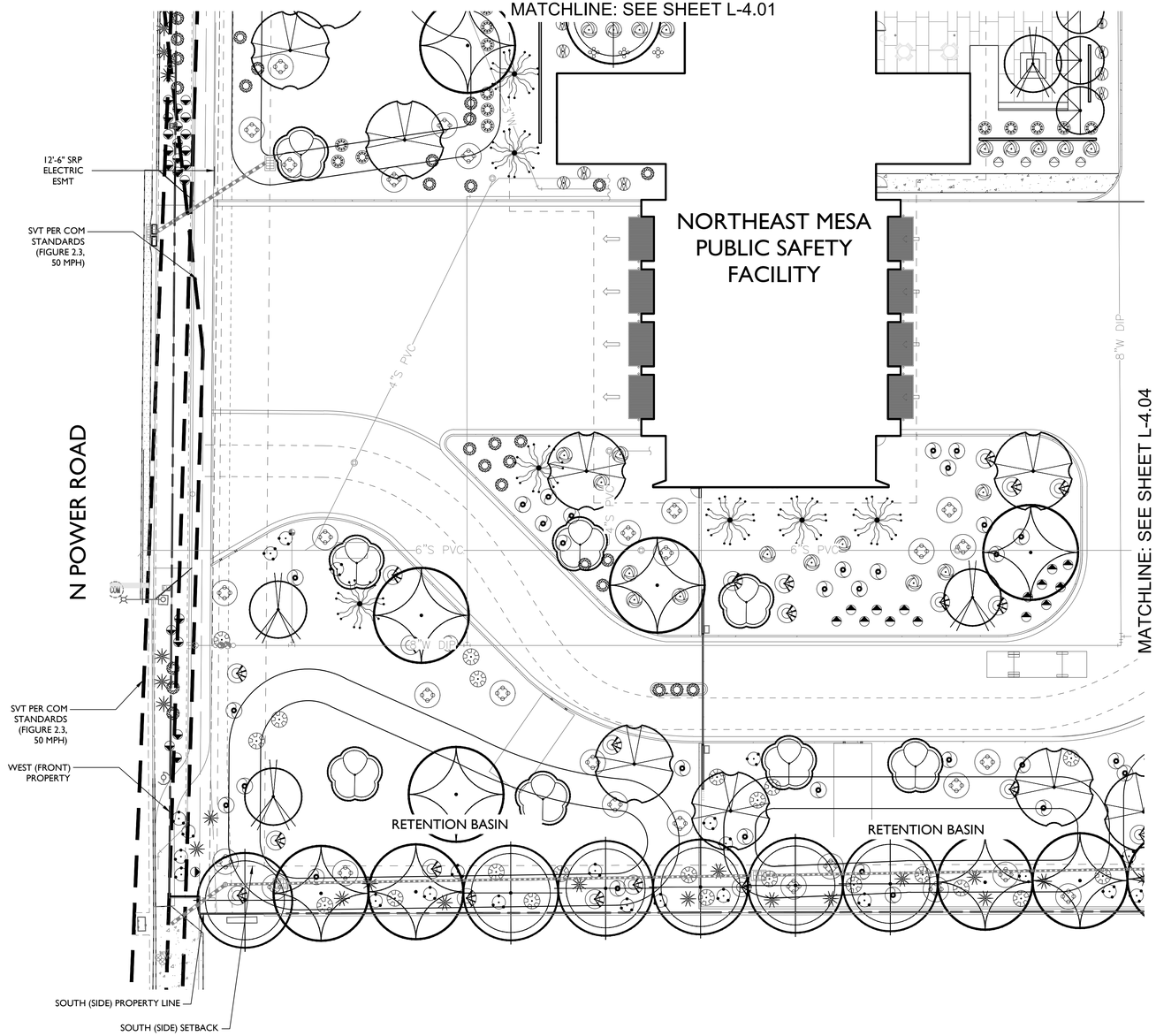

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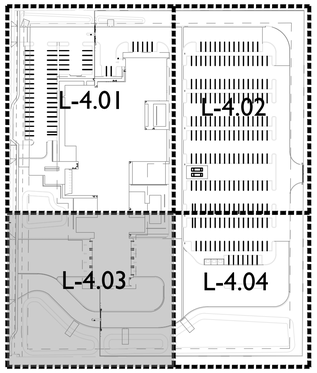

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	Prosopis hybrid 'Phoenix'	Thornless Mesquite	36" Box	4
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	Aloe hybrid 'Blue Elf'	Blue Elf Aloe	5 Gal	50
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	Echinocactus grusonii	Golden Barrel Cactus	5 Gal	26
	Ericameria larcifolia 'Aguirre'	Turpentine Bush	5 Gal	19
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	Justicia californica	Chuparosa	5 Gal	48
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	Ruellia pennisularis	Desert Ruellia	5 Gal	17
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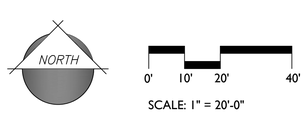

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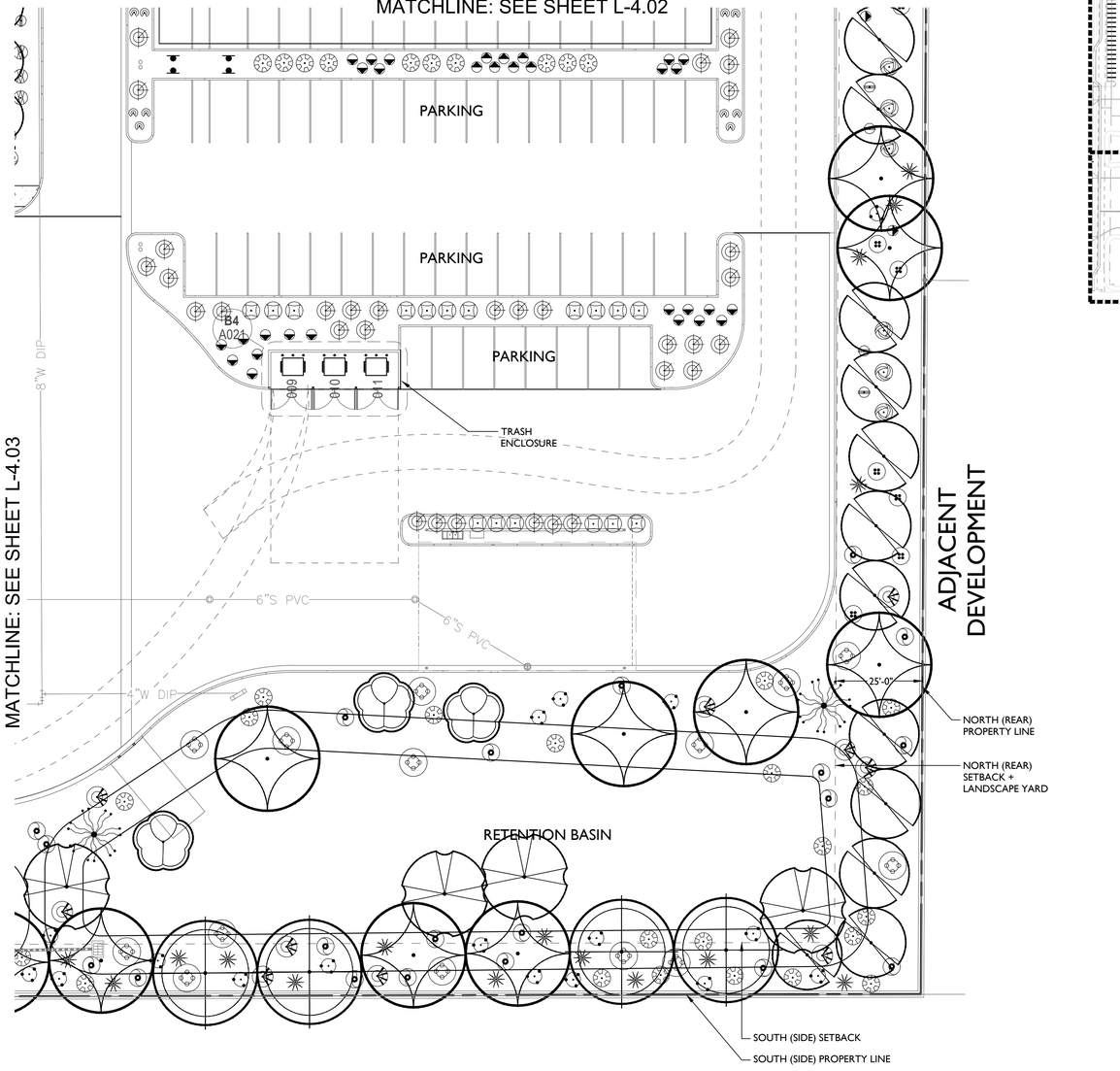

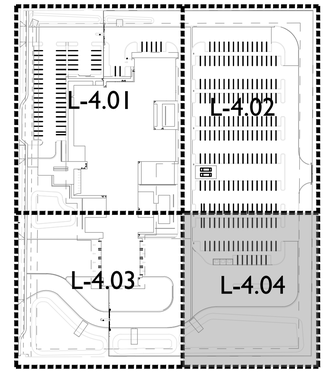

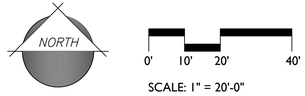

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