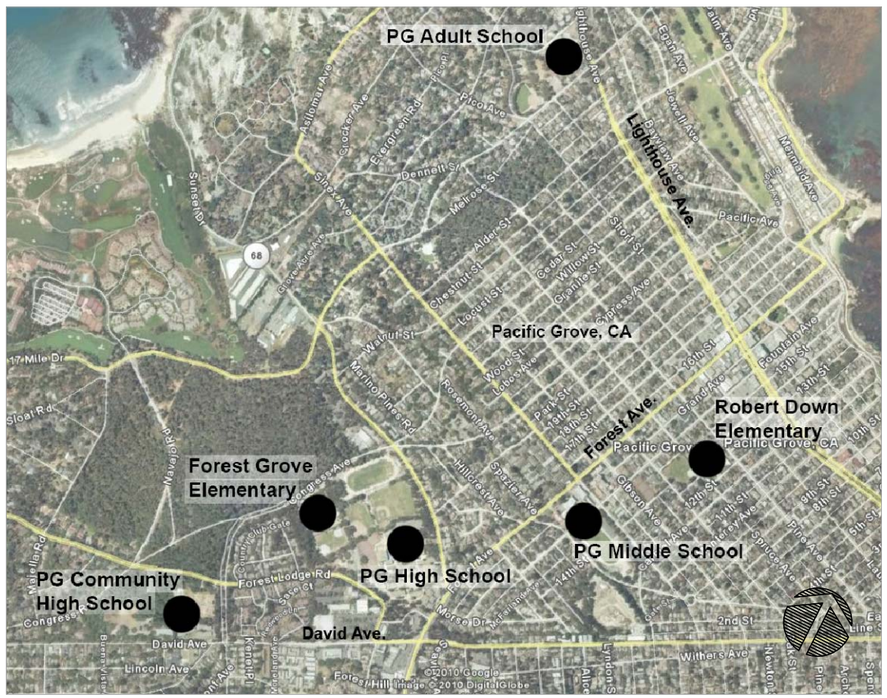
Pacific Grove Unified School District
Conceptual Planting Masterplans

Pacific Grove, California

Board Approved June 3, 2010

SCHOOL MAP:



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Pacific Grove Community High School

Forest Grove Elementary School

Pacific Grove High School

Pacific Grove Middle School

Introduction

The purpose of this document:

To provide Board approved direction for the maintenance and improvement of the landscaped areas of the district's properties through either district or non-district sponsored activities.

Principles:

1. As a major owner of publicly owned and landscaped land in Pacific Grove, it is important and appropriate for the district to identify how it will maintain and improve its properties to insure that they are properly retained for future generations.
2. As a potential major user of limited regional water resources for landscaping purposes, it is important and appropriate that the district plans to maintain and improve its landscaped areas in a way that minimizes such water usage.
3. As an educational organization that tries to focus as much of its limited financial resources on the instructional program as possible, it is important and appropriate that the district develop plans to ensure that the expense of the ongoing maintenance and improvement of landscape areas, and the associated liability exposure, be minimized.
4. As one of the largest operators of landscaped spaces in the area, it is appropriate for the district to plan to attempt to assist in the maintenance of native vegetation when appropriate and not knowingly participate in the introduction or maintenance of invasive plants that are threatening the native vegetation of the region.
5. The maintenance and improvement of the district's landscaped properties should be planned for in a way that contributes to the educational program of the district, creates an attractive environment , and is designed and implemented in a manner that minimizes the budgetary commitment necessary to address ongoing maintenance and liability issues.

Planting Zones

A1 Lawn Areas
A2 Ornamental Tree planting areas
A3 Ornamental shrubs/groundcover planting areas
B1 Oak – Pine planting area
B2 Open space grass/lawn area
B3 Native grass restoration area
C1 Erosion control seed area
D1 Potted and portable planting area

A1 Lawn Areas

Maintenance: Medium to high.

These areas require detailed inspections and services once a week. Grass is required to be cut and weed free year round. Maintain rodent control.

Irrigation: Yes.

Lawn seed or sod shall be a turf type, tall fescue. No grass (and spray irrigation) shall surround existing or new trees within 3 feet. Oak trunks shall not have any irrigation water touching them. Limited tree planting shall be allowed in lawn areas, but not in sports field lawn areas. See A2 Ornamental Tree list.

Where possible, the non-essential lawn areas (i.e. not needed for sports or play fields, or student gathering areas) should be transitioned to Zone A3 to reduce both water and maintenance needs.

A1 Lawn Area: Robert Down Elementary

A2 Ornamental tree planting area

Maintenance: Low to medium.

These areas require minimal maintenance services a few times a year, including trimming and pruning. Tree areas are to be weed and debris free year round.

Irrigation: Yes.

Trees shall be setback from walkways, structures, other trees, etc. at minimal distances shown on the Plant List.

A3 Ornamental shrubs/groundcover planting area

Maintenance: Low to medium.

These areas require minimal maintenance services a few times a month, including trimming and pruning. Planting areas are to be weed and debris free year round.

Irrigation: Yes.

Plants shall be setback from walkways, structures, other plants, etc. at minimal distances shown on the Plant List.

A3 Ornamental shrub planting area: PG Middle School

B1 Oak - Pine planting area

Maintenance: Very low.

These areas may require minimal maintenance services and inspections a few times a year, including trimming and pruning. New plantings may require protective measures from deer.

Irrigation: Temporary drip to new plantings only, or scheduled hand watering.

New plantings shall allow for optimum growth and minimal impact on existing vegetation. Plants shall be setback from walkways, structures, other plants, etc. at minimal distances shown on the Plant List.

B2 Open space grass/lawn area

Maintenance: Very low.

These areas may require minimal maintenance services and inspections a few times a year, including mowing and rodent control.

Irrigation: None.

Open space grass/lawn areas are existing grass open spaces, recommended to be maintained as clear open space, no trees.

B2 Open space grass/lawn area: PG Adult School

B3 Native grass restoration area

Maintenance: Very low.

These areas may require minimal maintenance services and inspections a few times a year, including mowing and weeding.

Irrigation: None.

C1 Erosion control seed area

Maintenance: Very low.

These areas may require minimal maintenance services and inspections a few times a year, including mowing and weeding.

Irrigation: None.

D1 Potted and portable planting area

Maintenance: Low to medium

Additional areas may be used for this purpose, as long as maintenance and access issues are addressed.

Irrigation: None, but hand watering may be allowed.

Exotic Plant Species Removal

Several species of invasive exotic plants already inhabit the school campuses; Pampas Grass (Cortaderia jubata), French Broom (Genista monspessulana), and Ice Plant (Carpobrotus edulis).

Pampas Grass and French Broom shall be regarded as highly invasive and a hazard to the campuses and local community. They should be targeted for removal whenever possible. Pampas grass has the ability to multiply fast, by scattering seeds, and taking over the landscape. French Broom is also very invasive, and becomes a dry summer fire hazard. These plants shall be eradicated by spraying and pulling by qualified personnel.

Ice plant shall also be removed whenever possible. However, ice plant located on slopes greater than 5% shall only be removed when an approved replacement plant will take its place, to help with erosion control.

PGUSD PLANT LIST:

Notes: CA Native: native habitat includes California, not only endemic to California. All plants shall be considered low water use, unless otherwise noted. Irrigated = recommended in irrigated areas only. Dry ok = can be in lawn and in dryer zones.

ZONE	BOTANICAL NAME	SUGGESTED VARIETIES	COMMON NAME	CA NATIVE	SPACING	NOTES
A2 ORNAMENTAL TREES						
	Geijera parviflora		Australian Willow		15'	Dry ok
	Liquidambar styraciflua	Palo Alto	Sweet Gum		10-15'	Irrigated
	Lyonothamnus floribundus		Catalina Ironwood	X	15-20'	Dry ok
	Magnolia grandiflora		Evergreen Magnolia		25'	Irrigated
	Magnolia soulangiana		Saucer Magnolia		20'	Irrigated
	Magnolia stellata		Star Magnolia		10-15'	Irrigated
	Melaleuca quinquenervia		Cajeput Tree		15'	Irrigated
	Metrosideros excelsus		New Zealand Christmas Tree		10-12'	Dry ok
	Olea europea	Swan Hill	Fruitless Olive		15'	Dry ok
	Pistacia chinensis		Chinese Pistache		15-20'	Irrigated
	Prunus c. 'Thundercloud'		Flowering Plum		15'	Irrigated
	Pyrus calleryana	Chanticleer	Callery Pear		15'	Irrigated
	Sequoia sempervirens	Aptos Blue	Coast Redwood	X	10-15'	Irrigated
	Ulmus parvifolia		Chinese Elm		20'	Irrigated
A3 ORNAMENTAL SHRUBS AND GROUNDCOVERS						
Large Shrubs	*Arctostaphylos 'Dr. Hurd'*		Dr. Hurd Manzanita	X	8-12'	
	Calycanthus occidentalis		Spice Bush	X	8-12'	Moist areas ok
	Camellia japonica	Alba Plena, Adolphe Audusson	Camellia		6-8'	Irrigated
	Cotinus coggygria		Smoke Tree		8-10'	
	Dendromecon harfordii		Island Bush Poppy	X	8-12'	
	Fremontodendron californicum	Ken Taylor, San Gabriel, Pacific Sunset	Ken Taylor Flannelbush	X	8-12'	
	Lavatera assurgentiflora		Tree Mallow	X	8-12'	
	Lavatera maritima (Lavatera bicolor)		Tree Mallow		8-12'	
	Leonotis leonurus		Lion's Tail		8-12'	
	Leucadendron hybrid 'Safari Sunset'		Safari Sunset Conebush		8-12'	
Small to Medium Shrubs	*Agapanthus sp.*	Flore Pleno, New Blue, White	Lily-of-the-Nile		2-4'	
	Arctostaphylos spp.		Manzanita	X	6-8'	
	Artemisia absinthium 'Powis Castle'		Common Wormwood		4-6'	
	Callistemon viminalis 'Little John'		Dwarf Bottlebrush		6-8'	
	Ceanothus 'Joyce Coulter'		Creeping Mountain Lilac	X	6-8'	
	Cistus spp.		Rockrose		4-6'	
	Convolvus cneorum		Bush Morning Glory		3-4'	
	Correa 'Ivory Bells'		White Australian Fuchsia		4'	
	Dietes bicolor		Evergreen Iris		4'	
	Dietes vegata		Butterfly Iris		3-4'	
	Eriogonum grande var rubescens		Red-Flowered Buckwheat	X	3-4'	
	Gaura lindheimeri		Butterfly Gaura		3-4'	
	Grevillea rosmarinifolia	Scarlet Sprite	Rosemary Grevillea		4-6'	
	Hemerocalis hybrids	Big Gold, Orange Crush, Rojo Alto	Big Gold Daylily		3'	

	ZONE	BOTANICAL NAME	SUGGESTED VARIETIES	COMMON NAME	CA NATIVE	SPACING	NOTES
	A3 Continued	*Kniphofia uvaria*	Christmas Cheer, Shining Scepter	Red Hot Poker		2'	
		Lavandula angustifolia	Alba	English Lavender		4'	
		Limonium perezii		Sea Lavender		3'	
		Phormium 'Amazing Red'		Amazing Red New Zealand Flax		4'	
		Phormium 'Cream Delight'		Cream Delight New Zealand Flax		4'	
		Phormium 'Gold Sword'		Gold Sword New Zealand Flax		4'	
		Polygala fruticosa 'Petite Butterfly'		Dwarf Sweet Pea Shrub		4'	
		Polygala myrtifolia 'Grandifolora'		Sweet Pea Shrub		4'	
		Raphiolepis spp.		Indian Hawthorn		4'	
		Rosa californica		California Wild Rose	X	6'	In perimer areas, away from pedestrians
		Rosmarinus officinalis 'Benenden Blue'		Rosemary		4-6'	Can attract bees
		Salvia clevelandii 'Allen Chickering'		Cleveland Sage	X	4-6'	
		Salvia greggii (various colors)		Autumn Sage		3-4'	
		Salvia leucantha	Santa Barbara	Mexican Sage		4'	
		Salvia leucophylla		Purple Sage	X	4'	
		Sollya heterophylla	Monterey Bay Sapphire	Bluebell Creeper		3-4'	
	Groundcovers	*Achillea millefolium*	Moonshine, colors available	Common Yarrow	X	6" O.C.	
		Arctostaphylos spp.		Manzanita	X	6-8'	
		Armeria maritima	Alba	Sea Thrift	X	18"	4" pots
		Asteriscus maritimus	Gold Coin, Compact Gold Coin	Beach Daisy		3'	
		Baccharis pilularis 'Twin Peaks'		Dwarf Coyote Bush	X	18"	from flats
		Ceanothus gloriosus 'Point Reyes'		Point Reyes Ceanothus	X	6-8'	
		Ceanothus griseus horizontalis	Yankee Point	Carmel Mountain Lilac	X	8-10'	
		Cerastium tomentosum		Snow in Summer		18"	
		Cistus salvifolius		Sageleaf Rockrose		4'	
		Convolvulus mauritanicus		Ground Morning Glory		3'	
		Coreopsis maritima		Sea Dahlia	X	2'	
		Coreopsis verticilla		Beach Coreopsis		2'	
		Correa 'Dusky Bells'		Dusky Bells Australian Fuchsia		3'	
		Erigeron glaucus	*Arthur Menzies*	Seaside Daisy	X	1-2'	
		Fragaria vesca		Wood Strawberry	X	1-2'	
		Gazania spp.		Gazania		12"	from flats
		Geranium 'Johnsons Blue'		Johson's Blue Geranium		2-3'	
		Grevillea lanigera 'Coastal Gem'		Coastal Gem Grevillea		3'	
		Heuchera maxima		Island Alum Root	X	2-3'	
		Lantana spp.		Lantana		4-6'	
		Penstemon spp.		Penstemon	X	2-3'	
		Phormium tenax spp.		Flax		3-4'	
		Rhamnus californica 'Seaview'		Seaview Coffeeberry	X	4'	
		Sisyrinchium bellum		Blue-eyed Grass	X	1-2'	
		Stachys byzantina		Lamb's Ears		2'	
		Symphoricarpos mollis		Creeping Snowberry	X	3'	
		Teucrium chamaedrys		Germander		2-3'	
		Verbena x hybrida 'Dark Purple'	Homestead Purple, Tapien Lavender	Dark Purple Verbena		2-3'	
		Verbena x hybrida 'White'	Babylon White, Tukana White	White Verbena		2-3'	

ZONE	BOTANICAL NAME	SUGGESTED VARIETIES	COMMON NAME	CA NATIVE	SPACING	NOTES
A3 Continued Vines	*Bougainvillea 'Barbara Karst'*		Barbara Karst Bougainvillea		5'	Away from pedestrians
	Bougainvillea spectabilis		Bougainvillea		5'	Away from pedestrians
	Distictus buccinatorius		Bloodred Trumpet Vine		5'	
	Ficus pumila		Creeping Fig		5'	
	Hardenbergia comptoniana		Lilac Vine		5'	
	Rosa banksiae 'Lutea'		Lady Bank's Yellow Rose		10'	In perimeter areas, away from pedestrians
	Rosa banksiae var banksiae		White Banksia		10'	In perimeter areas, away from pedestrians
	Trachelospermum jasminoides		Star Jasmine		5'	
B1 OAK - PINE PLANTING						
Trees	*Aesculus californica*		California Buckeye	X	25'	planted at edge of oak-pine forest
	Pinus radiata		Monterey Pine	X	20-25'	pitch-canker resistant
	Quercus agrifolia		Coast Live Oak	X	25-30'	
	Umbellularia californica		California Laurel	X	25'	
Shrubs and	*Carpentaria californica*		Tree Anemone	X	8-12'	
Groundcovers	*Ceanothus thyrsiflorus*	Snow Flurry, Sky Lark	Blue Blossom	X	8-12'	
	Garrya elliptica		Coast Silk Tassel	X	8-12'	
	Heteromeles arbutifolia		Toyon	X	8-12'	
	Iris douglasiana		Douglas Iris	X	12"	
	Lupinus chamissonis		Silver Dune Lupine	X	4'	
	Mimulus aurantiacus (Diplacus latifolius)	colors available	Sticky Monkey Flower	X	4'	
	Rhamnus californica	Eve Case, Mound San Bruno	Eve Case Coffeeberry	X	8-12'	
	Ribes sanguineum		Red Flowering Currant	X	4'	
	Ribes speciosum		Fuchsia Flowering Gooseberry	X	4'	
	Romneya coulteri		Matilija Poppy	X	8-12'	
	Vaccinium ovatum		Evergreen Huckleberry	X	3'	
	Zauschneria californica		California Fuschia	X	18"	
B3 NATIVE GRASS RESTORATION						
	Carex divulsa		Berkeley Sedge	X		Moist areas, non irrigated
	Carex tumulicola		Foothill Sedge	X		Moist areas, non irrigated
	Deschampsia caespitosa		Tufted Hairgrass	X		Damp areas ok, non irrigated
	Festuca californica		California Fescue	X		Dry areas, non, or infrequent irrigation
	Festuca glauca	Elijah Blue	Blue Fescue			Dry areas, non, or infrequent irrigation
	Festuca idahoensis	Siskiyou Blue	Idaho Fescue	X		Dry areas, non, or infrequent irrigation
	Festuca rubra		Red Fescue	X		Dry areas, non, or infrequent irrigation
	Helictotrichon sempervirens		Blue Oat Grass			Dry areas, non, or infrequent irrigation
	Juncus balticus		Wire Rush	X		Moist areas, non irrigated
	Juncus effusus		Bog Rush	X		Moist areas, non irrigated
	Juncus patens		Spreading Rush	X		Moist areas, non irrigated
	Muhlenbergia rigens		Deer Grass	X		Dry areas, non irrigated
	Nassella pulchra		Purple Needlegrass	X		Dry areas, non irrigated

	ZONE	BOTANICAL NAME	SUGGESTED VARIETIES	COMMON NAME	CA NATIVE	SPACING	NOTES
	C1 EROSION CONTROL SEED						
		Bromus carinatus		California Brome	**X**		Dry or moist areas, non, or infrequent irrigation
		Deschampsia caespitosa		Tufted Hairgrass	**X**		non irrigated areas
		Elymus glaucus		Blue Wildrye	**X**		Dry or moist areas, non, or infrequent irrigation
		Eschscholzia californica		California Poppy	**X**		non irrigated areas
		Festuca idahoensis	Siskiyou Blue	Idaho Fescue	**X**		non irrigated areas
		Festuca rubra		Red Fescue	**X**		Dry or moist areas, non, or infrequent irrigation
		Lupinus nanus		Sky Lupine	**X**		non irrigated areas
		Muhlenbergia rigens		Deer Grass	**X**		non irrigated areas
		Nassella pulchra		Purple Needlegrass	**X**		Dry or moist areas, non, or infrequent irrigation
		Sisyrinchium bellum		Blue-eyed Grass	**X**		non irrigated areas

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LEGEND

- A1 Lawn area
- A2 Ornamental tree planting area
- A3 Ornamental shrubs/groundcover planting area
- B1 Oak-Pine planting area
- B2 Open space grass/lawn area
- B3 Native grass restoration
- C1 Erosion control seed area
- D1 Potted and portable planting area

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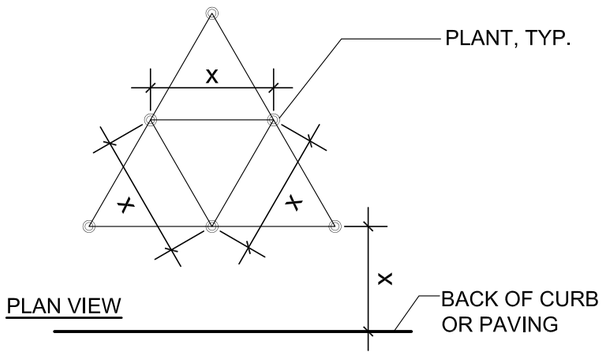
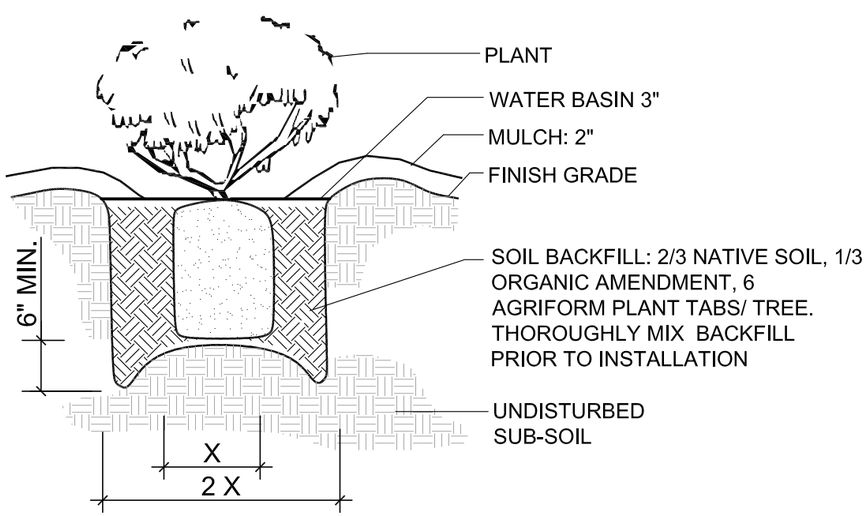


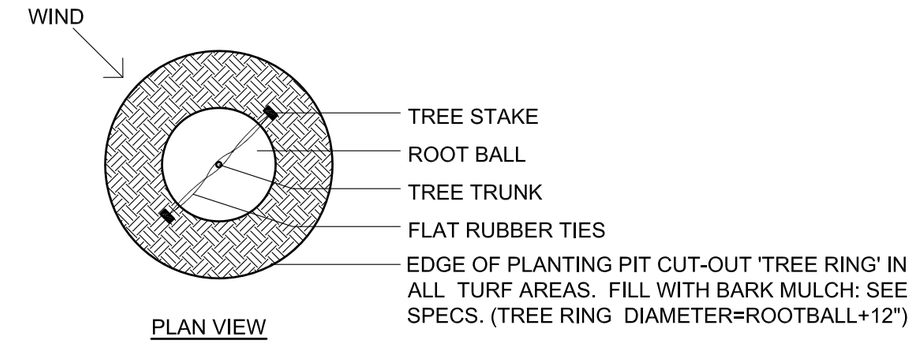
PLAN VIEW

NOTE: FOR PLANT SPACING 'X', SEE PLANTING PLAN LIST

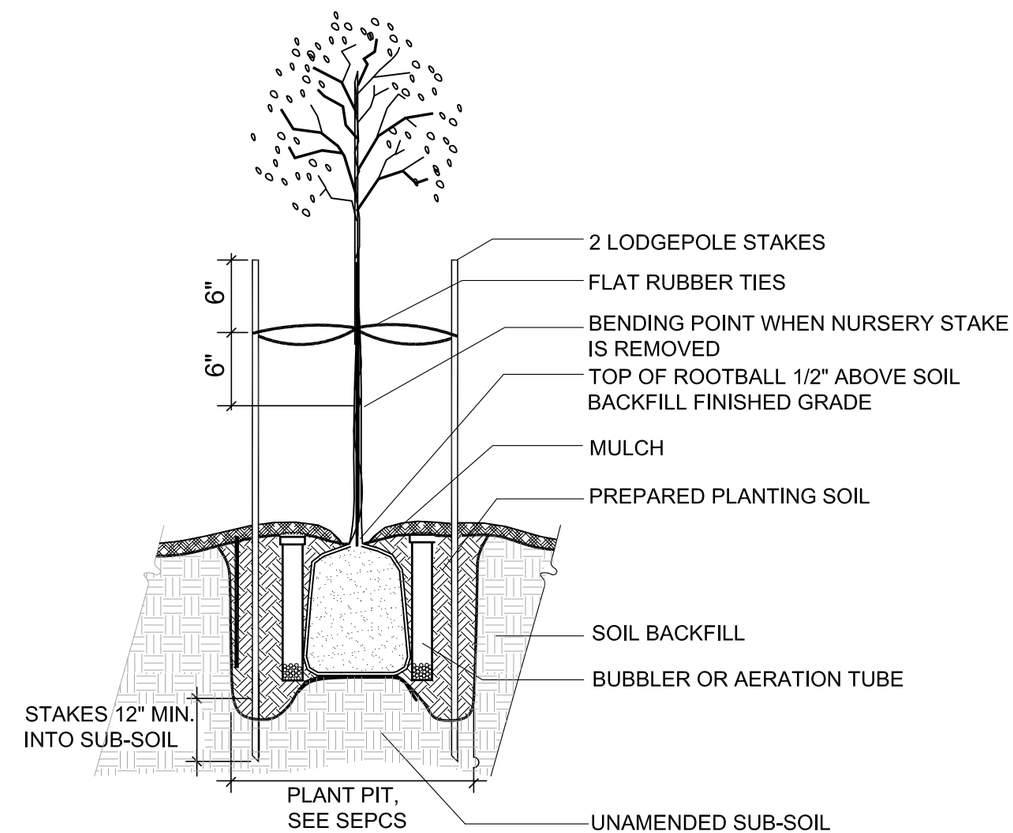


2 Shrub Planting

NTS



PLAN VIEW



1 Tree Planting & Staking

NTS

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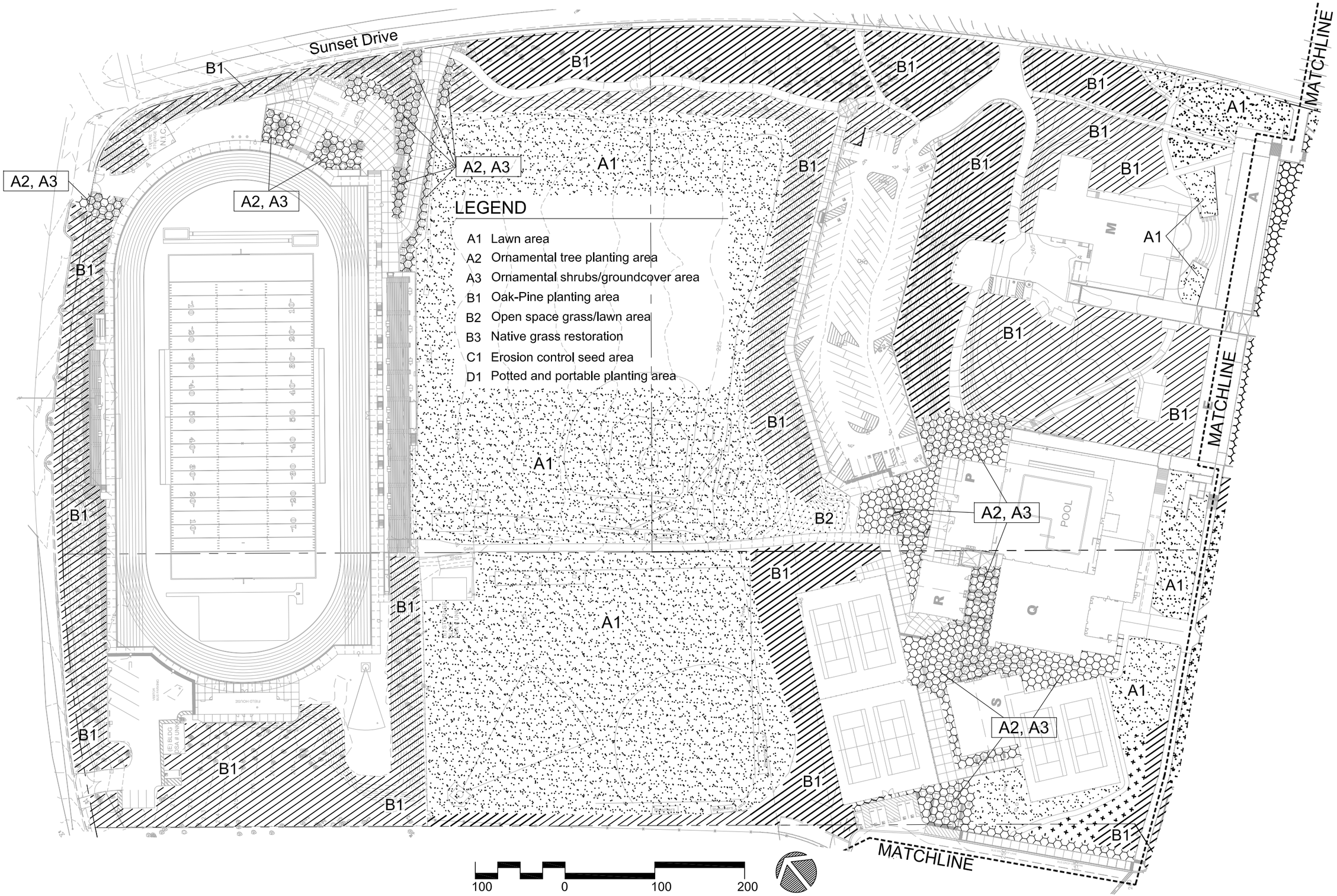

PG High School - Sheet 1

PGUSD Conceptual Planting Masterplans

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LEGEND

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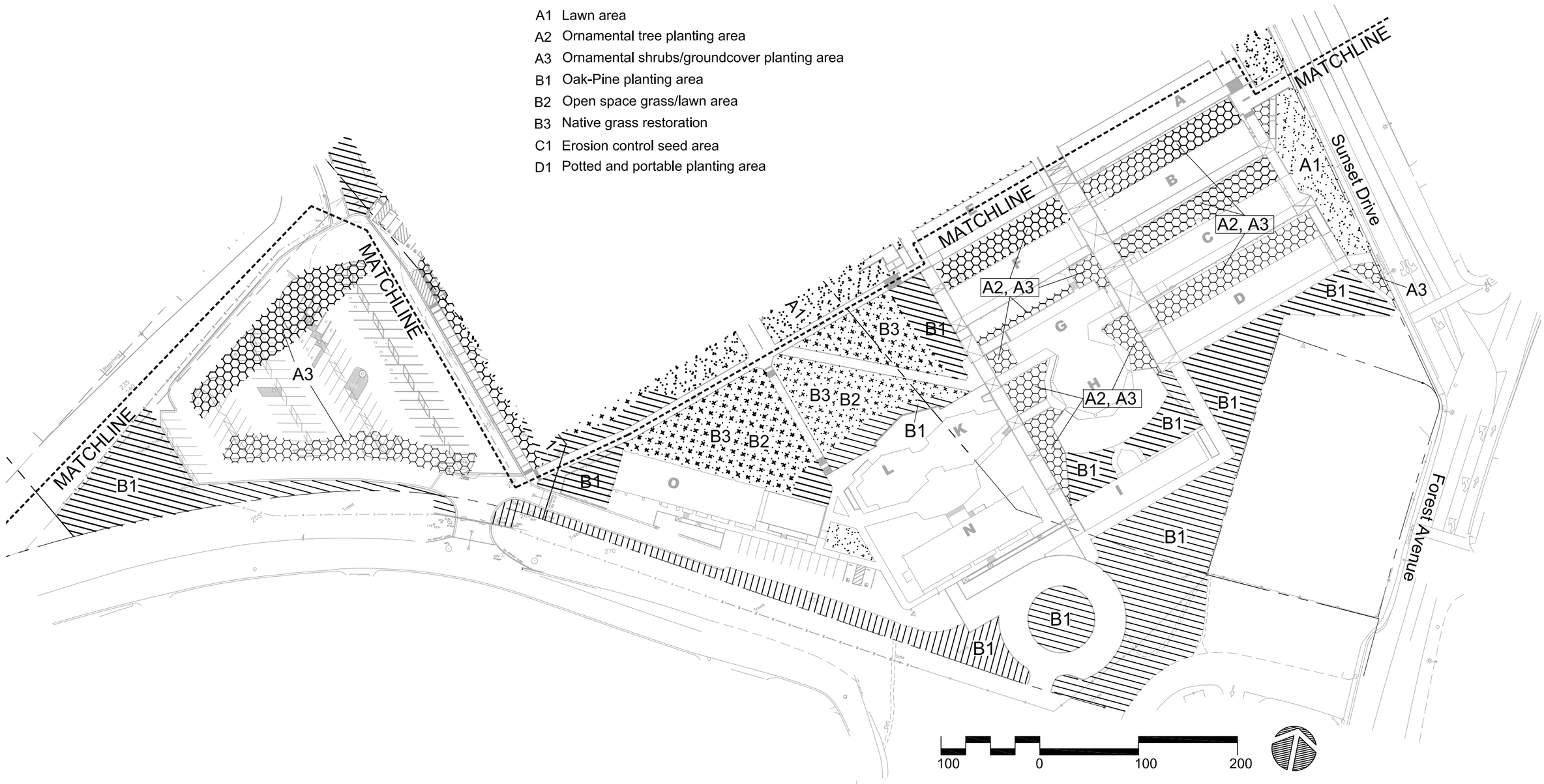

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PG High School - Sheet 2

PGUSD Conceptual Planting Masterplans

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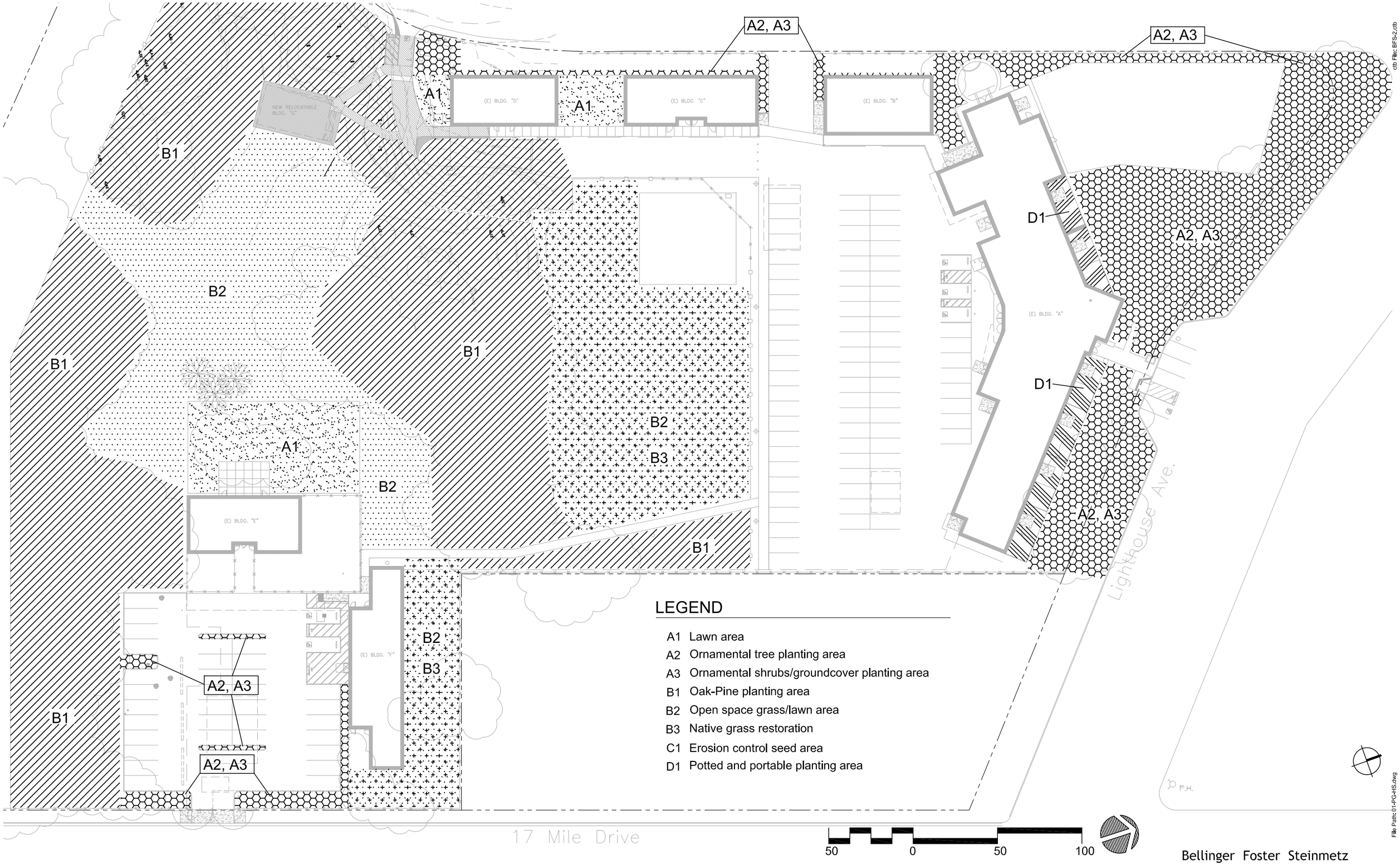

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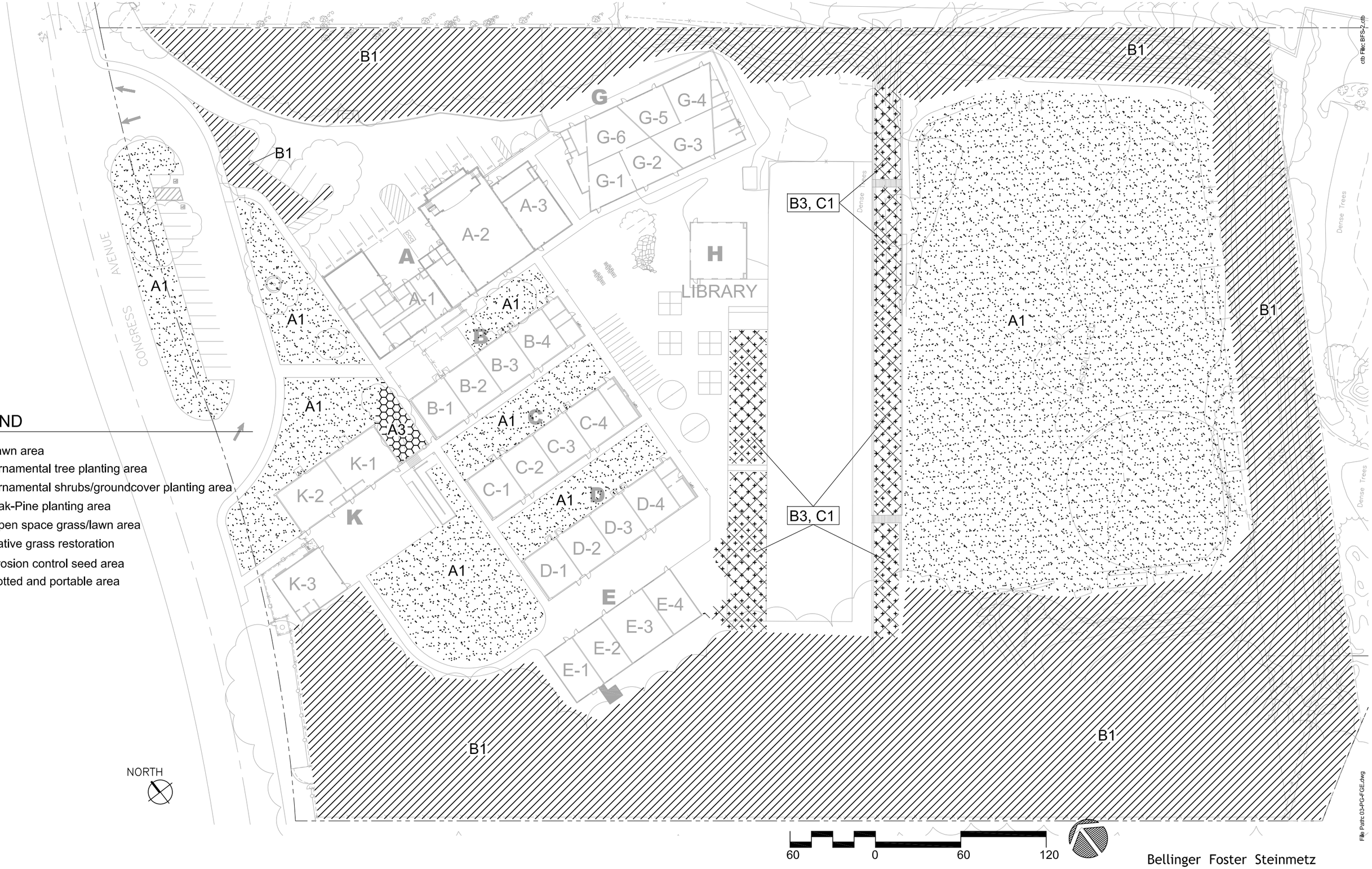

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Forest Grove Elementary

PGUSD Conceptual Planting Masterplans

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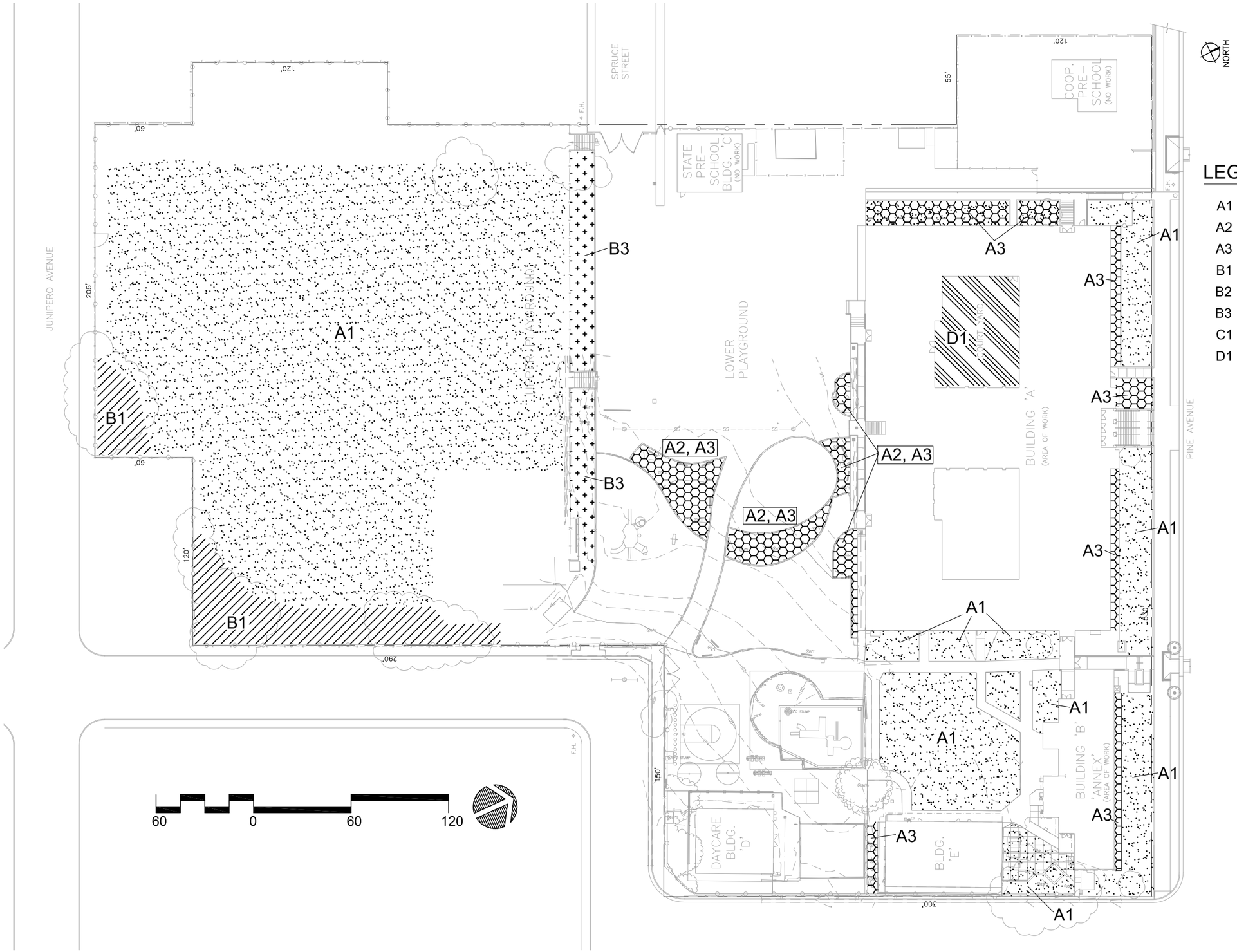

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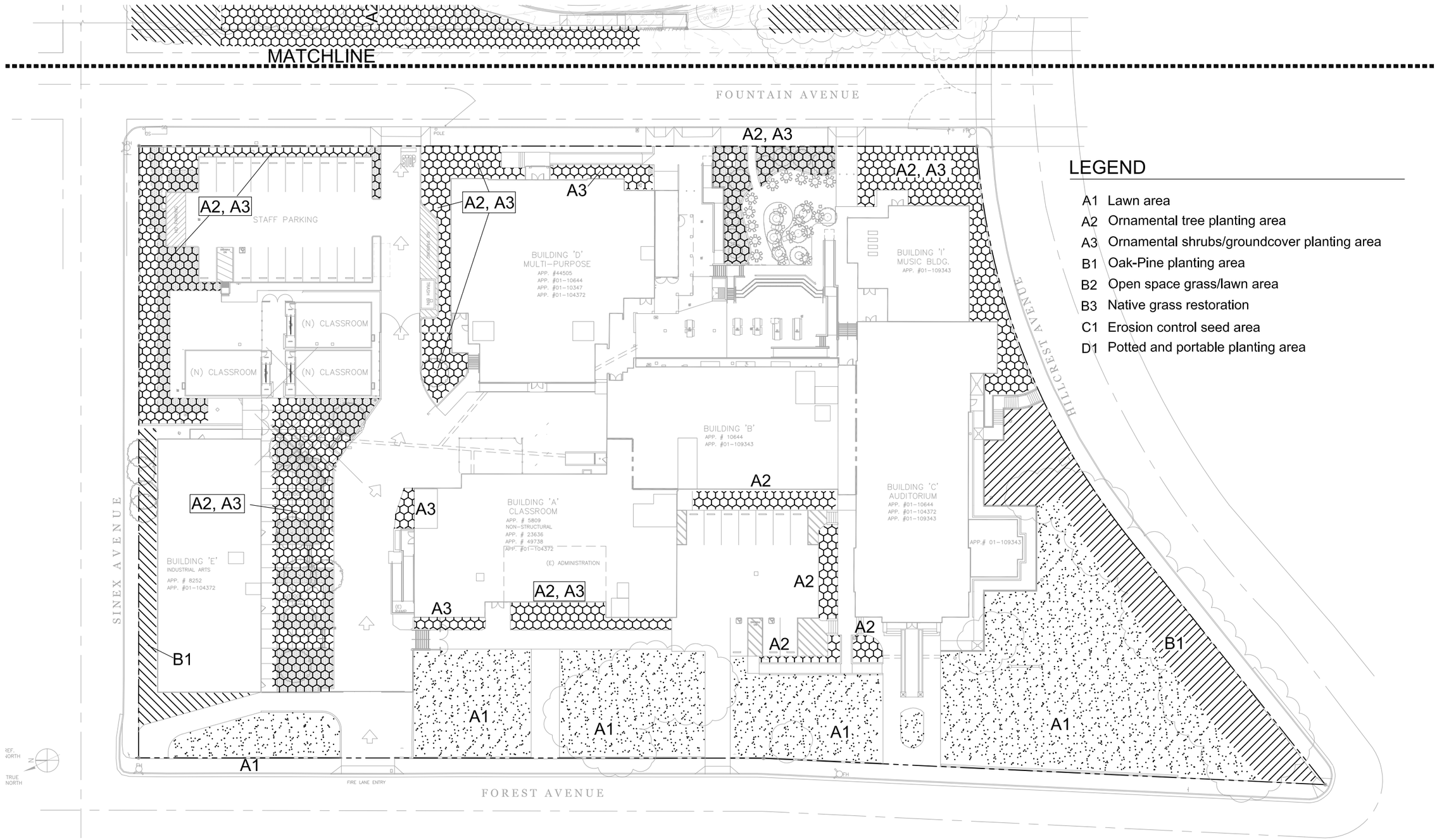

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PG Middle School - Sheet 1

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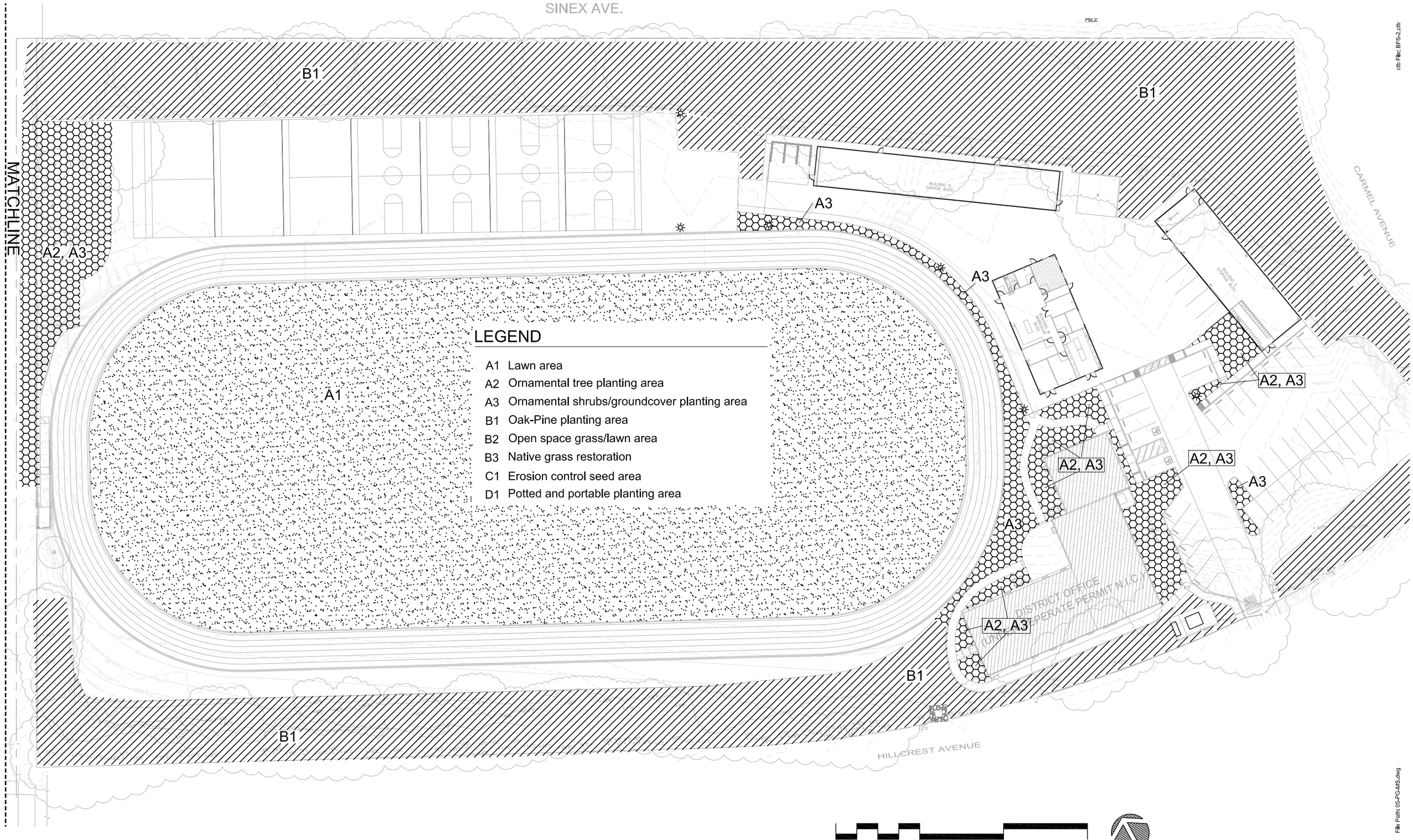

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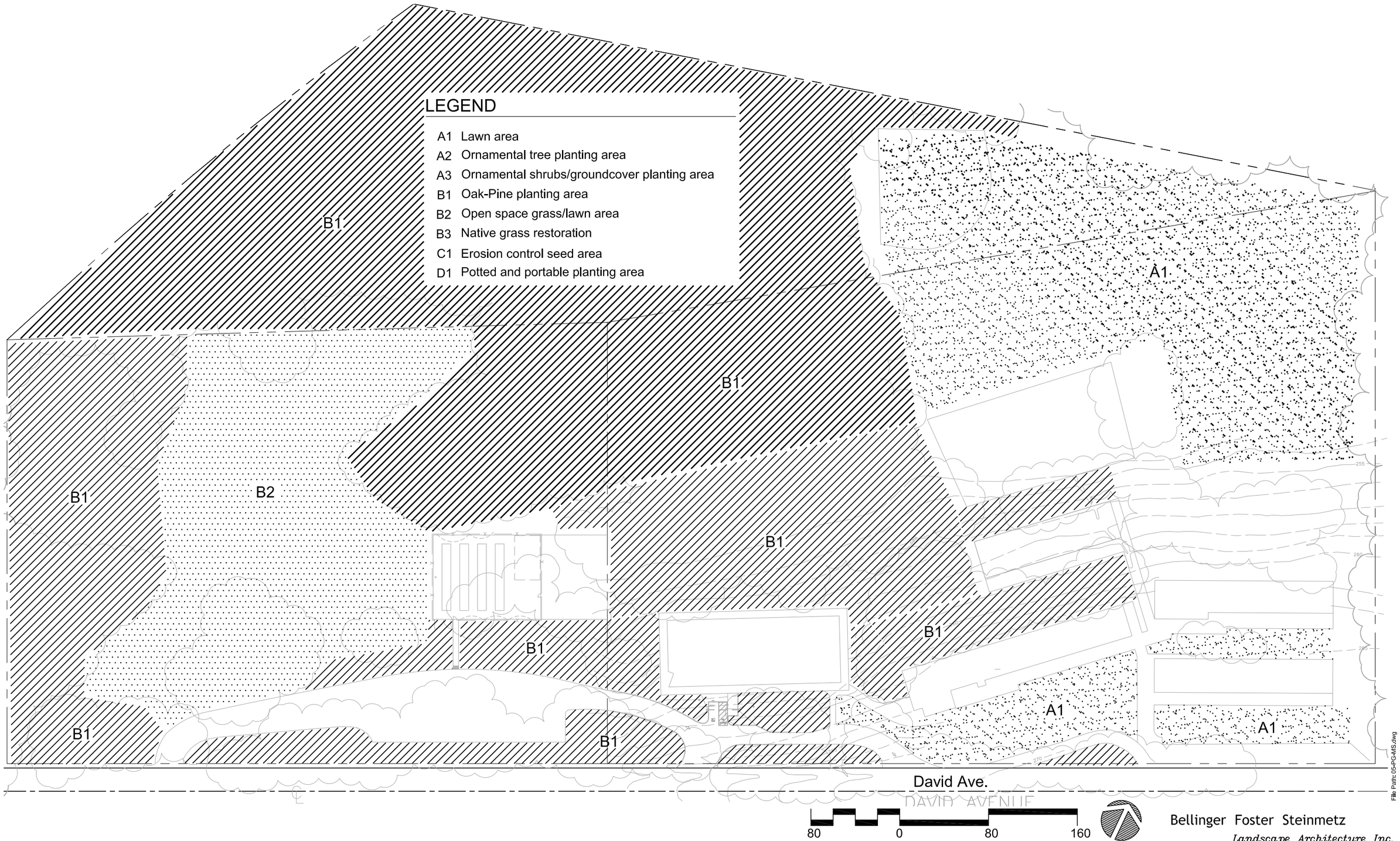
PG Middle School - Sheet 2

PGUSD Conceptual Planting Masterplans



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PG Community High School

PGUSD Conceptual Planting Masterplans

A2 - ORNAMENTAL TREES

Geijera parviflora

Liquidambar styraciflua

Lyonothamnus flofibundus

Magnolia grandiflora

Magnolia soulangiana

Magnolia stellata

Melaleuca quinquenervia

Metrosideros excelsus

Olea europea

Pistacia chinensis

Pyrus calleryana

Sequoia sempervirens

Ulmus parvifolia

A3 - ORNAMENTAL SHRUBS

Arctostaphylos spp.

Artemesia 'Powis Castle'

Callistemon v. 'Little John'

Cistus spp.

Convolvus cneorum

Dietes vegeta

Eriogonum grande v. rubescens

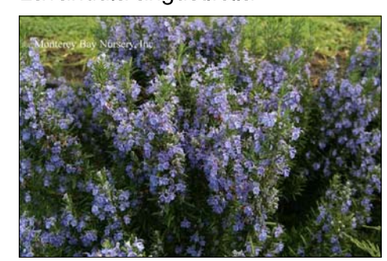
Fremontodendron californicum

Grevillea rosmarinifolia

Lavandula angustifolia

Phormium 'Amazing Red'

Phormium 'Cream Delight'


Rosmarinus officianalis

Salvia leucantha

Note: This palette represents a sample of the recommended plant list for PGUSD. See the Plant List sheets for the entire species list.

Plant Palette - Zone A2 and A3

PGUSD Conceptual Planting Masterplans

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A3 - ORNAMENTAL GROUNDCOVER

Achillea millefolium

Arctostaphylos spp.

Armeria maritima

Asteriscus maritimus

Ceanothus g. horizontalis

Cistus salvifolius

Coreopsis verticilla

Correa 'Dusky Bells'

Erigeron glaucus

Gazania spp.

Penstemon humilis

Sisyrinchium bellum

Stachys byzantia

Verbena 'Dark Purple'

A3 - ORNAMENTAL VINES

Bougainvillea 'Barbara Karst'

Distictus buccinatorius

Hardenbergia comptoniana

Rosa banksiae 'Lutea'

Rosa banksiae var. banksiae

Note: This palette represents a sample of the recommended plant list for PGUSD. See the Plant List sheets for the entire species list.

Plant Palette - Zone A3 (cont)

PGUSD Conceptual Planting Masterplans

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B1 - OAK PINE PLANTING

Aesculus californica

Ceanothus thyrsiflorus

Garrya elliptica

Heteromeles arbutifolia

Quercus agrifolia

Rhamnus californica

Romneya coulteri

Umbellularia californica

B3 - NATIVE GRASSES

Carex divulsa

Deschampsia caespitosa

Festuca glauca

Festuca idahoensis

Helictotrichon sempervirens

Juncus patens

Muhlenbergia rigens

Note: This palette represents a sample of the recommended plant list for PGUSD. See the Plant List sheets for the entire species list.

Plant Palette - Zone B1 and B3

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