

THE OWNER MAY ELECT TO UPSIZE OR DOWNSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH THE OWNER PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. REFER TO IRRIGATION PLANS FOR LIMITS AND TYPES OF IRRIGATION DESIGNED FOR THE LANDSCAPE. IN NO CASE SHALL IRRIGATION BE EMITTED WITHIN THE MINIMUM DISTANCE FROM BUILDING OR WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. ALL IRRIGATION DISTRIBUTION LINES, HEADS AND EMITTERS SHALL BE KEPT OUTSIDE THE MINIMUM DISTANCE AWAY FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED SHALL BE THOROUGHLY LOOSENEED TO A DEPTH OF AT LEAST 6" AND AMENDED PER SPECIFICATIONS. TESTING OF EXISTING SOILS IN LANDSCAPE AREAS SHALL BE CONDUCTED TO IDENTIFY NUTRIENTS/CONTAMINANT LEVELS. REVIEW TESTING FOR RECOMMENDED AMOUNTS OF SOIL AMENDMENT. USE SOIL AMENDMENTS IN MODERATION WITH NATIVE PLANTS. THE FOLLOWING SCHEDULE SPECIFIES GENERAL SOIL AMENDMENT RECOMMENDATIONS PER 1000 SQUARE

SHRUBS, PERENNIALS, & MODERATE-LOW-WATER PLANTINGS: 3 CUBIC YARDS/1000 SF

TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS.

SHRUB, GROUNDCOVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY 4" x 14 GAUGE ROLL TOP, INTERLOCKING TYPE EDGER, JDR DURAEDGE OR EQUAL. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID

MULCH SHRUB BEDS WITH MIN. 3" DEPTH, 5/8" MINUS LANDSCAPE ROCK. ALL GROUND COVER AND PERENNIAL FLOWER BEDS SHALL BE MULCHED WITH 3" DEPTH, SQUEEGEE 3/8" MINUS LANDSCAPE ROCK MULCH. USE OF WEED CONTROL FABRIC IS NOT RECOMMENDED TO POTENTIAL MULCH MOVEMENT THAT CAN LEAVE FABRIC EXPOSED. WEED BARRIER ALSO REDUCES THE INFILTRATION OF NATURAL PRECIPITATION. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY THE FULL WIDTH

SHRUB BED PLANTING DESIGN SHOULD ACHIEVE MINIMUM 50% PLANT COVERAGE WITHIN 2-3 GROWING SEASONS.


AREAS WITHIN 5-FEET OF STRUCTURES LEFT UNPLANTED FOR LOW-FLAMMABILITY DESIGN CONSIDERATIONS
AREAS WITHIN 5-FEET OF STRUCTURES WHERE IRRIGATION APPLICATION IS EXCLUDED TO LIMIT WATER NEAR

LANDSCAPE LEGEND

CODE	DESCRIPTION	APPLICATION	WATER NEEDED (GAL/SF/YR)
WA-01	TURF - BLUEGRASS	HEAVY TRAFFIC AND ACTIVE USE, MAINTAIN AT 3"-5" HEIGHT	22
WA-02	TURF - BUFFALO/BLUE GRAMA	PASSIVE USE, LOWER MAINTENANCE TURF ALTERNATIVE, 3"-12" HEIGHT	12
WA-03	TURF - DOG TUFF	WARM SEASON TURF ALTERNATIVE (CONTAINS EDGES TO LIMIT SPREADING), 2"-5" HEIGHT	12
WA-04	TURF - TAHOMA 31 BERMUDAGRASS	HEAVY TRAFFIC AREA ALTERNATIVE TO BLUEGRASS WITH LOWER WATER REQUIREMENT, 1"-3" HEIGHT	12
WA-05	NATIVE GRASS - IRRIGATED ENHANCED	LOW GROWING NATIVE MIX (18-24"), SEEDING INSTALLATION, IRRIGATED BUFFER TO NATURALIZED LANDSCAPE	8
WA-06	NATIVE GRASS - IRRIGATED	ALTERNATIVE NATIVE MIX (UP TO 36" HEIGHT), SEEDING INSTALLATION, IRRIGATION FOR ESTABLISHMENT	3
WA-07	PLANTING BED - HIGH WATER	VEGETABLE GARDENING OR OTHER SIMILAR FUNCTIONAL USE	14
WA-08	PLANTING BED - MODERATE USE	PLANTS WATERED TO ESTABLISH AND SUPPLEMENTED DURING GROWING SEASON	12
WA-09	PLANTING BED - LOW WATER	NATIVE PLANTS WATERED TO ESTABLISH AND LARGELY SUSTAIED BY ANNUAL PRECIPITATION	8

CODE	DESCRIPTION
M-01	STEEL EDGING
M-02	SPOADE EDGING
M-03	PERFORATED EDGER
M-04	OPTIONAL GARDEN IN-A-BOX AREA

CODE	DESCRIPTION
M-05	LANDSCAPE ROCK
M-06	CRUSHER FINES
M-07	DECORATIVE ROCK

SYMBOL	DESCRIPTION
	M-08 LANDSCAPE BOULDER
CODE	DESCRIPTION
P-01	ASPHALT PAVEMENT
P-02	PAVERS
P-03	DECORATIVE PAVERS
P-04	POROUS PAVERS
P-05	CONCRETE PAVEMENT

CODE	DESCRIPTION
N-01	TREE LOCATIONS
N-02	SHRUB PLANTING
N-03	PERENNIAL PLANT LAYOUT
N-04	SHED
N-05	GRILL
N-06	FURNITURE BY OWNER
N-07	MOW LINE
N-08	RAIN GARDEN
N-09	RAIN BARREL
N-10	SWALE/CULVERT
N-11	CONCRETE/FLAGSTONE STEPPERS
N-12	FREESTANDING WALL
N-13	RETAINING WALL
N-14	LANDSCAPE BOULDER WALL
N-15	PLANTER WALL

TEMPLATE SUMMARY CHART

TEMPLATE #	SIZE	DESCRIPTION
1	45,730 SF	LARGE LOT
2	7,400 SF	CONTEMPORARY GEOMETRIC
3	3,020 SF	WATER-WISE ADAPTIVE
4	14,090 SF	NATURALISTIC
5	6,750 SF	COLORADO CONTEMPORARY
6	5,770 SF	MODERN ADAPTIVE

SOD AND SEED MIXES

BLUEGRASS (SOD) OVERHEAD SPRAY IRRIGATION

COMMON NAME	% OF TOTAL	WATER USE
TALL FESCUE	90%	HIGH
KENTUCKY BLUEGRASS	10%	HIGH
	100%	

BUFFALOGRASS & BLUE GRAMA TURF SEED MIX OVERHEAD SPRAY IRRIGATION

COMMON NAME	% OF TOTAL	WATER USE
BUFFALO GRASS, CODY OR BOWIE	80%	LOW
BLUE GRAMA, ALMA OR BAD RIVER	20%	LOW
	100%	
SEEDING RATE: (DRILL) 2 LBS PLS / 1,000 SF; (BROADCAST) 4 LBS PLS /1,000 SF		

DOG TUFF TURF (PLUGS) OVERHEAD SPRAY IRRIGATION
INSTALL AS PLUGS WITH ON-CENTER SPACING AS RECOMMENDED BY NURSERY STOCK SUPPLIER

SCIENTIFIC NAME	% OF TOTAL	WATER USE
CYNADON 'PWIN04S'	100%	LOW

TAHOMA 31 BERMUDAGRASS (SOD) OVERHEAD SPRAY IRRIGATION
INSTALL AS SOD

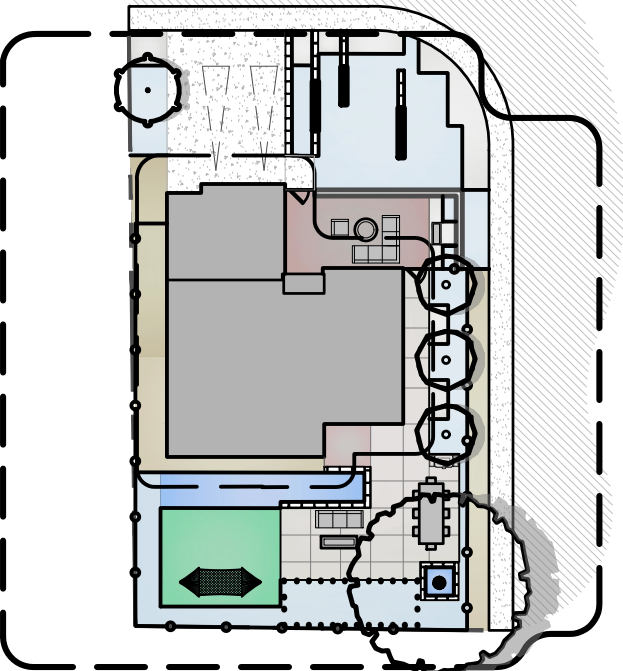
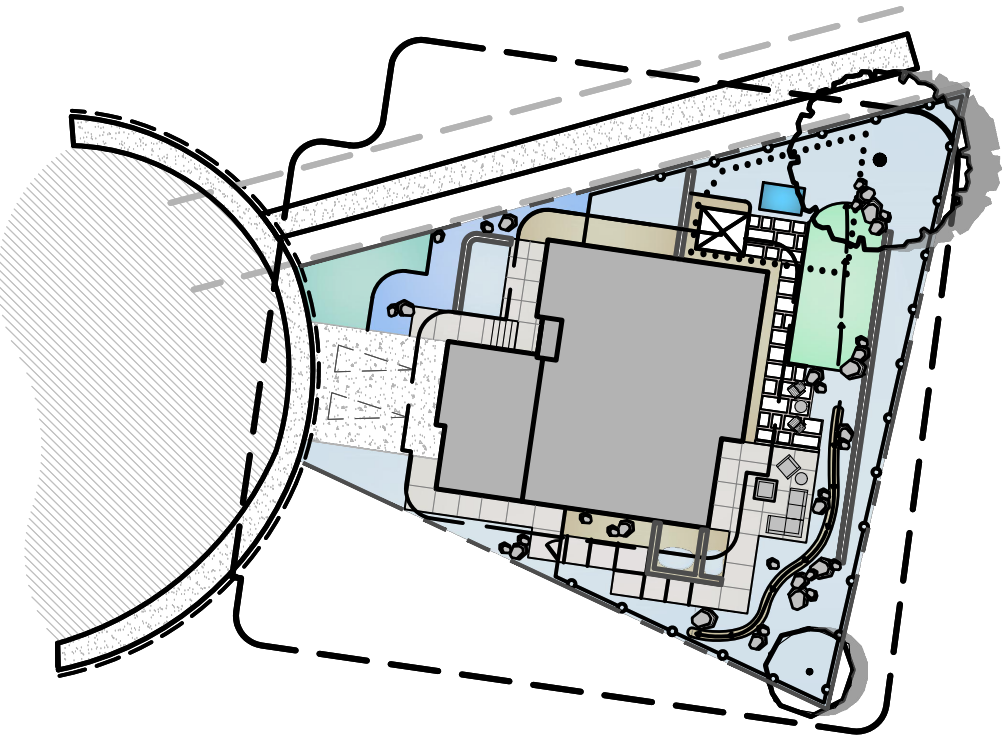
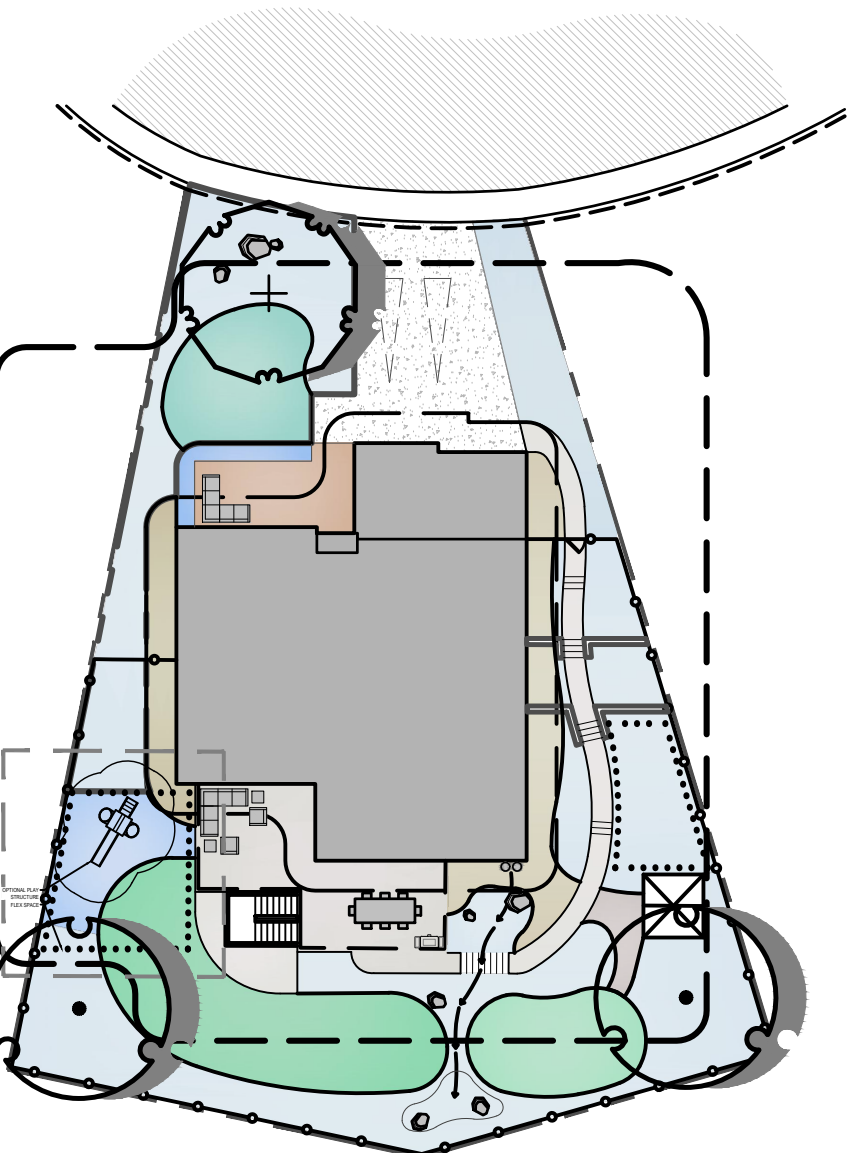
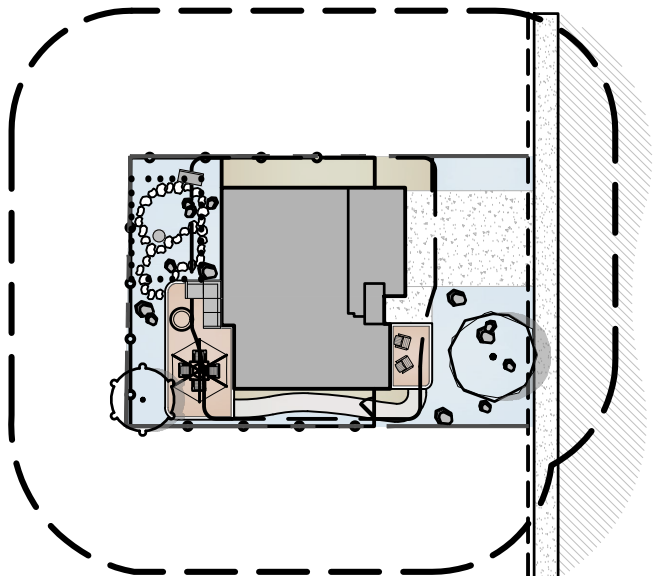
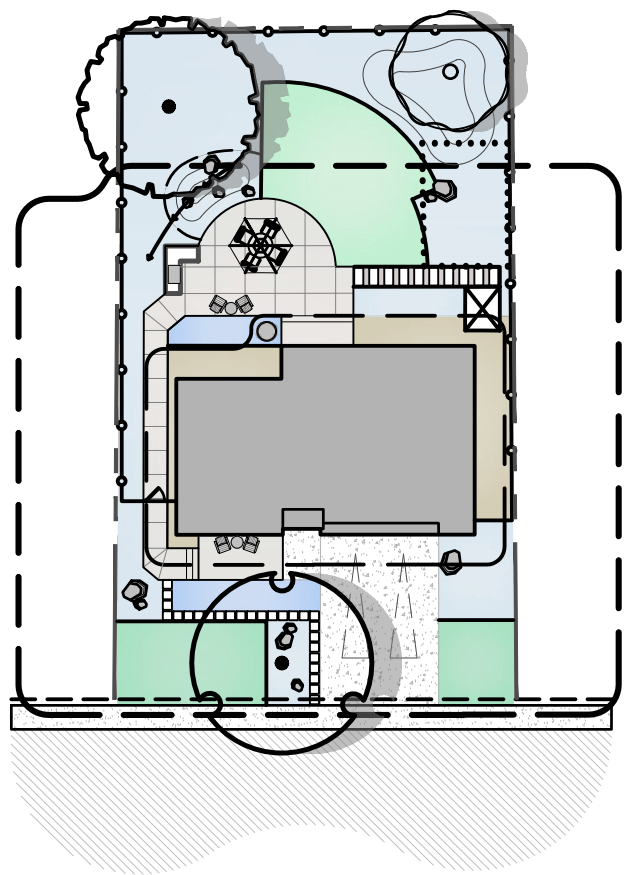
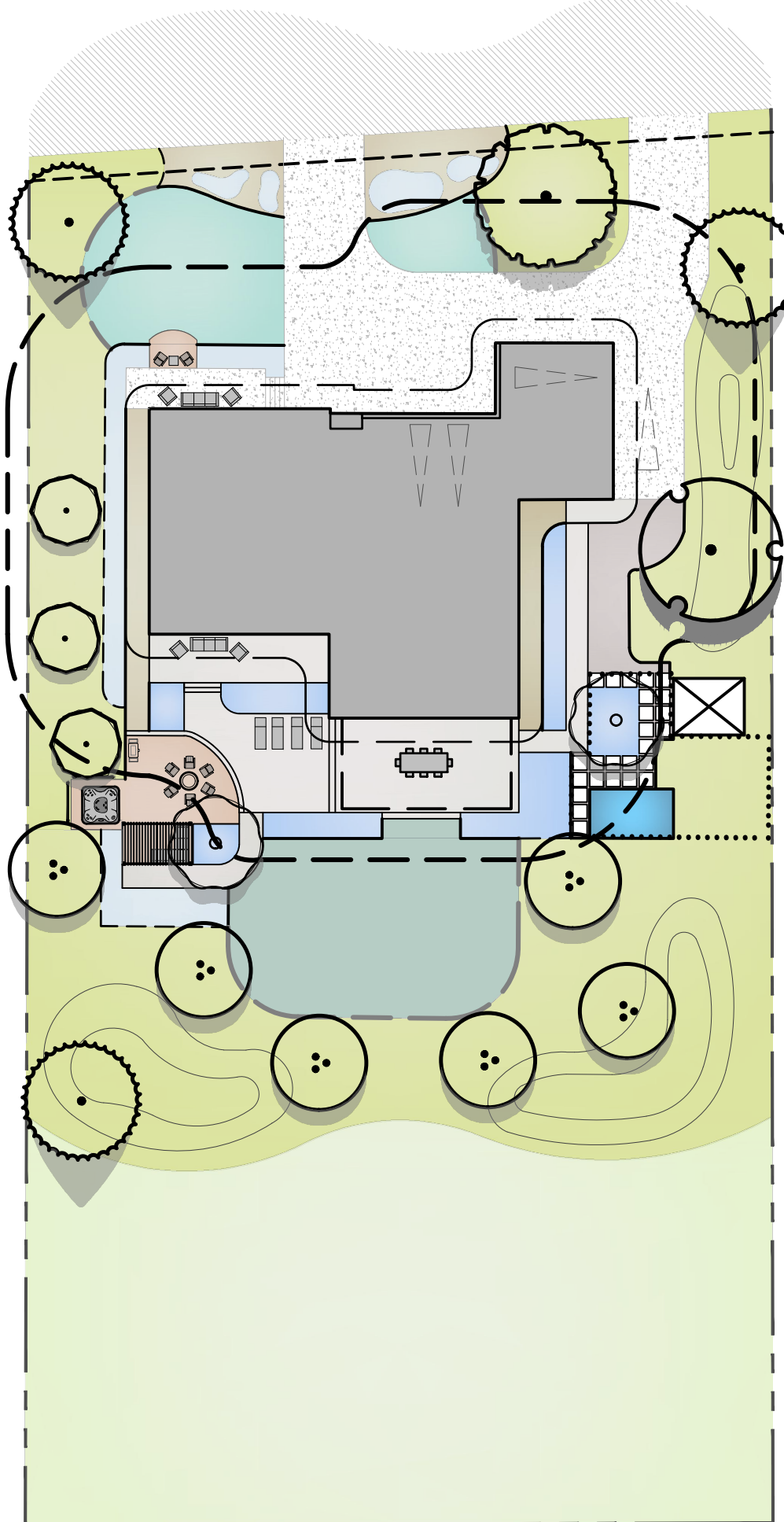
SCIENTIFIC NAME	% OF TOTAL	WATER USE
CYNODON DACTYLON X C. TRANSVAALENSIS	100%	LOW

ENHANCED NATIVE TURF (SEED) OVERHEAD SPRAY IRRIGATION

COMMON NAME	% OF TOTAL	WATER USE
BUFFALO GRASS, CODY OR BOWIE	40%	LOW
BLUE GRAMA, ALMA OR BAD RIVER	20%	LOW
SIDEOATS GRAMA, VAUGHN OR EL RENO	20%	LOW
SLENDER WHEATGRASS	20%	LOW
	100%	
SEEDING RATE: (DRILL) 3 LBS PURE LIVE SEED / 1,000 SF; (BROADCAST) 3 LBS PURE LIVE SEED / 1,000 SF		

IRRIGATED NATIVE GRASS SEED OVERHEAD SPRAY IRRIGATION
REFER TO BOULDER COUNTY RECOMMENDED NATIVE SEED MIXES

COMMON NAME	% OF TOTAL	WATER USE
SIDE OATS GRAMA, VAUGHN	10%	LOW
BLUE GRAMA, NATIVE, ALMA, OR HACHITA	15%	LOW
SLENDER WHEATGRASS, SAN LUIS	20%	LOW
JUNEGRASS	10%	LOW
WESTERN WHEATGRASS, ARRIBA	10%	LOW
WESTERN WHEATGRASS	10%	LOW
SWITCHGRASS, BLACKWELL OR NEBRASKA 28	7%	LOW
LITTLE BLUESTEM, CIMMARON OR PASTURA	8%	LOW
GREEN NEEDLEGRASS, LODORM OR NATIVE	10%	LOW
	100%	
SEEDING RATE: (DRILL) 3 LBS PURE LIVE SEED / 1,000 SF; (BROADCAST) 3 LBS PURE LIVE SEED / 1,000 SF		



PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	WATER USE	HEIGHT	SPREAD
DECIDUOUS CANOPY TREES							
AC SN	ACER NEGUNDO 'SENSATION'	SENSATION BOX ELDER	B & B	2" CAL	LOW	25'-30'	20'-25'
CA SP	CATALPA SPECIOSA	NORTHERN CATALPA	B & B	2" CAL	LOW	40'-50'	30'-40'
GY DI	GYMNOCLADUS DIOICA 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2" CAL	LOW	50'-80'	40'-60'
QU MA	QUERCUS MACROCARPA	BURR OAK	B & B	2" CAL	LOW	50'-80'	60'-80'
EVERGREEN TREES							
PI IS	PICEA PUNGENS 'ISELI FASTIGIATE'	FASTIGIATE SPRUCE	B & B	6' HEIGHT	MOD	10'-15'	4'-6'
PI PO	PINUS PONDEROSA	PONDEROSA PINE	B & B	6' HEIGHT	LOW	50'-80'	30'-40'
ORNAMENTAL TREES							
AC HW	ACER TATARICUM 'HOT WINGS'	HOT WINGS TATARIAN MAPLE	B & B	1.5" CAL	LOW	15'-20'	15'-20'
AM AB	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	B & B	1.5" CAL	LOW	15'-25'	15'-20'
CE PR	CELTIS OCCIDENTALIS 'JFS-KSU1'	PRAIRIE SENTINEL® HACKBERRY	B & B	1.5" CAL	LOW	30'-40'	10'-15'
CR IN	CRATAEGUS CRUS-GALLI INERMIS	THORNLESS COCKSPUR HAWTHORN	B & B	1.5" CAL	LOW	20'-25'	15'-20'
MA AD	MALUS X 'ADIRONDACK'	ADIRONDACK CRABAPPLE	B & B	1.5" CAL	MOD	15'-20'	10'-15'
MA SS	MALUS X 'SPRING SNOW'	SPRING SNOW CRAB APPLE	B & B	1.5" CAL	LOW	15'-25'	20'-25'
PR CH	PRUNUS X VIRGINIANA 'P002'	SUCKER PUNCH CANADA CHOKECHERRY	B & B	1.5" CAL	LOW	20'-25'	15'-20'
DECIDUOUS SHRUBS							
AM RE	AMELANCHIER ALNIFOLIA 'REGENT'	REGENT SERVICEBERRY	CONT.	#5	LOW	7'-8'	7'-8'
AM CA	AMORPHA CANESCENS	LEADPLANT	CONT.	#5	LOW	3'-4'	3'-4'
AR MO	ARONIA MELANOCARPA 'MORTON'	IROQUOIS BEAUTY™ BLACK CHOKEBERRY	CONT.	#5	LOW	4'-5'	2'-3'
CH MI	CHAMAEBATIARIA MILLEFOLIUM	FERNBUSH	CONT.	#5	VERY LOW	4'-5'	5'-6'
CH NN	CHRYSOETHAMNUS NAUSEOSUS NAUSEOSUS	BABY BLUE RABBITBRUSH	CONT.	#5	VERY LOW	1'-2'	2'-3'
CO KE	CORNUS SERICEA 'KELSEYI'	KELSEYI DOGWOOD	CONT.	#5	MOD	2'-3'	2'-3'
CO BA	CORNUS SERICEA 'BAILEYI'	BAYLEY'S RED TWIG DOGWOOD	CONT.	#5	MOD	9'-12'	9'-10'
CY SP	CYTISUS PURGANS 'SPANISH GOLD'	SPANISH GOLD BROOM	CONT.	#5	LOW	3'-4'	5'-6'
CY LE	CYTISUS X 'LENA'	LENA BROOM	CONT.	#5	LOW	2'-3'	3'-4'
EU AL	EUONYMUS ALATUS 'COMPACTUS'	COMPACT BURNING BUSH	CONT.	#5	MOD	7'-8'	7'-8'
FA PA	FALLUGIA PARADOXA	APACHE PLUME	CONT.	#5	VERY LOW	5'-6'	5'-6'
HO DU	HOLODISCUS DUMOSUS	ROCK SPIREA	CONT.	#5	LOW	5'-6'	5'-6'
JA AM	JAMESIA AMERICANA	WAXFLOWER	CONT.	#5	LOW	7'-8'	5'-6'
LI LO	LIGUSTRUM VULGARE 'LODENSE'	LODENSE PRIVET	CONT.	#5	LOW	2'-3'	3'-4'
PH LI	PHILADELPHUS MICROPHYLLUS	LITTLELEAF MOCKORANGE	CONT.	#5	LOW	5'-6'	4'-5'
PH OP	PHYSOCARPUS OPULIFOLIUS 'DART'S GOLD'	DART'S GOLD NINEBARK	CONT.	#5	LOW	4'-5'	4'-5'
PO FR	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	CONT.	#5	LOW	2'-3'	2'-3'
PR BE	PRUNUS BESSEYI	WESTERN SAND CHERRY	CONT.	#5	LOW	6'-7'	5'-6'
RI AU	RIBES AUREUM	GOLDEN CURRANT	CONT.	#5	LOW	5'-6'	5'-6'
RO NE	ROSA FLORIBUNDA 'NEARLY WILD'	NEARLY WILD ROSE	CONT.	#5	LOW	2'-3'	2'-3'
SA PU	SALIX PURPUREA 'NANA'	DWARF ARCTIC WILLOW	CONT.	#5	MOD	5'-6'	5'-6'
SH AG	SHEPHERDIA ARGENTEA 'TOTEM'	SILVER TOTEM® BUFFALOBERRY	CONT.	#5	VERY LOW	9'-12'	2'-3'
VI AL	VIBURNUM X RHYTIDOPHYLLOIDES 'ALLEGHANY'	ALLEGHANY VIBURNUM	CONT.	#5	LOW	9'-12'	9'-10'
EVERGREEN SHRUBS							
AR CH	ARCTOSTAPHYLOS X COLORADENSIS 'CHIEFTAIN'	CHIEFTAIN MOCK BEARBERRY MANZANITA	CONT.	#5	LOW	2'-3'	5'-6'
AR PA	ARCTOSTAPHYLOS X COLORADOENSIS 'PANCHITO'	PANCHITO MANZANITA	CONT.	#5	LOW	2'-3'	5'-6'
PI MO	PINUS MUGO 'MOPS'	MUGO PINE	CONT.	#5	LOW	2'-3'	2'-3'
ORNAMENTAL GRASSES							
BO BA	BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	CONT.	#1	VERY LOW	2'-3'	1'-2'
FE EB	FESTUCA GLAUCA 'ELIJAH BLUE'	BLUE FESCUE	CONT.	#1	LOW	<1'	<1'
MI VA	MISCANTHUS SINENSIS 'VARIEGATUS'	VARIEGATED MAIDEN GRASS	CONT.	#1	MOD	4'-5'	2'-3'
MU RE	MUHLENBERGIA REVERCHONI 'UNDAUNTED'	UNDAUNTED MUHLY	CONT.	#1	MOD	2'-3'	1'-2'
PA SH	PANICUM VIRGATUM 'SHENANDOAH'	SWITCH GRASS	CONT.	#1	LOW	3'-4'	1'-2'
SC SC	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	CONT.	#1	LOW	3'-4'	2'-3'
SC ST	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION'	STANDING OVATION BLUESTEM GRASS	CONT.	#1	LOW	3'-4'	1'-2'
SP HE	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	CONT.	#1	LOW	2'-3'	1'-2'
PERENNIALS							
AG RU	AGASTACHE RUPESTRIS	SUNSET HYSOP	CONT.	#1	LOW	1'-2'	2'-3'
AR FR	ARTEMISIA FRIGIDA	FRINGED SAGE	CONT.	#1	VERY LOW	1'-2'	1'-2'
EN PE	ENGELMANNIA PERISTENIA	ENGELMANN'S DAISY	CONT.	#1	LOW	1'-2'	2'-3'
MO BE	MONARDA FISTULOSA	NATIVE BEEBALM	CONT.	#1	LOW	2'-3'	1'-2'
SA RE	SALVIA REPTANS 'P016S'	AUTUMN SAPPHIRE™ SAGE	CONT.	#1	LOW	2'-3'	1'-2'
ZI GR	ZINNIA GRANDIFLORA	ROCKY MOUNTAIN ZINNIA	CONT.	#1	VERY LOW	<1'	1'-2'

PLANT SCHEDULE LOW-FLAMMABILITY

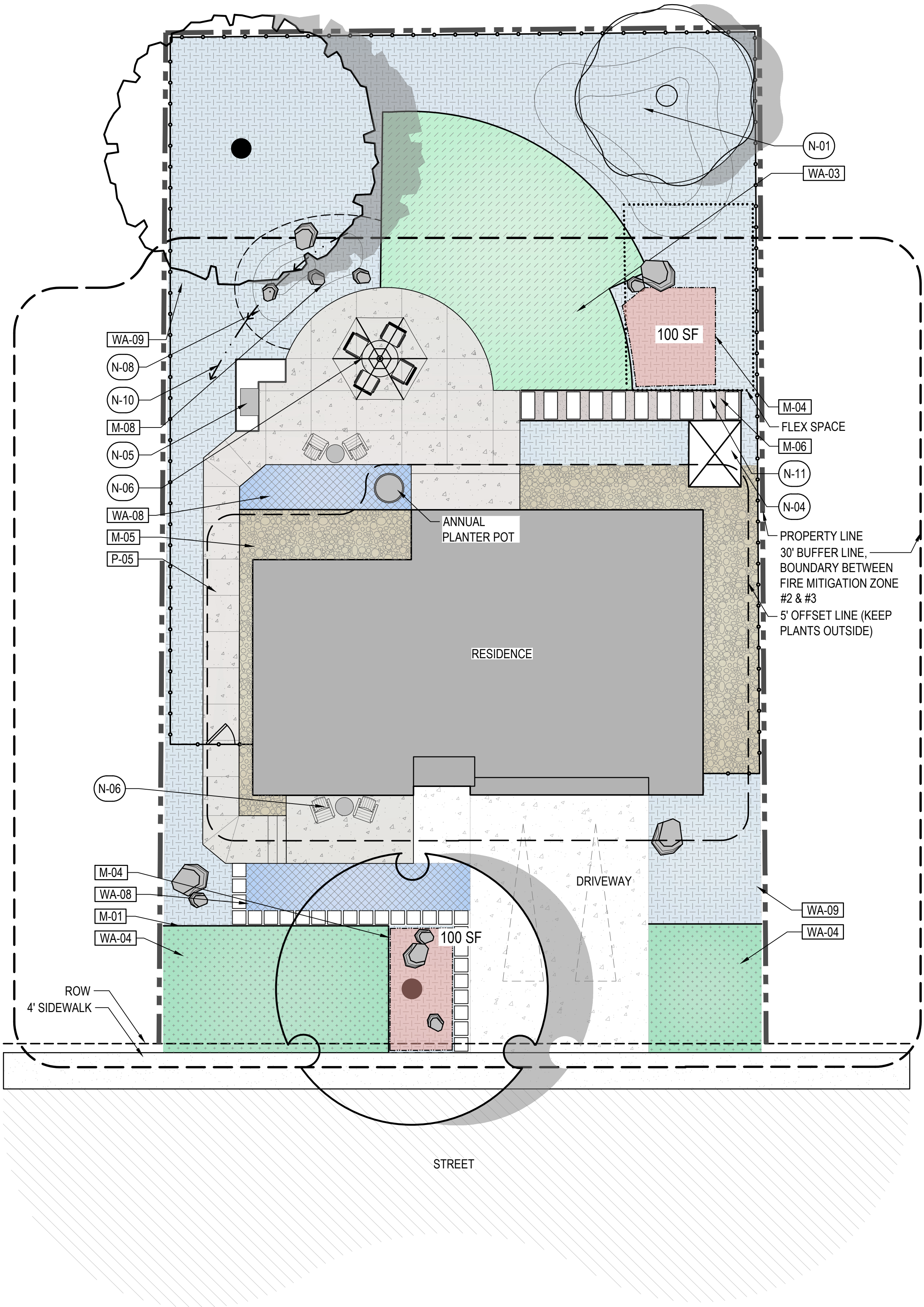
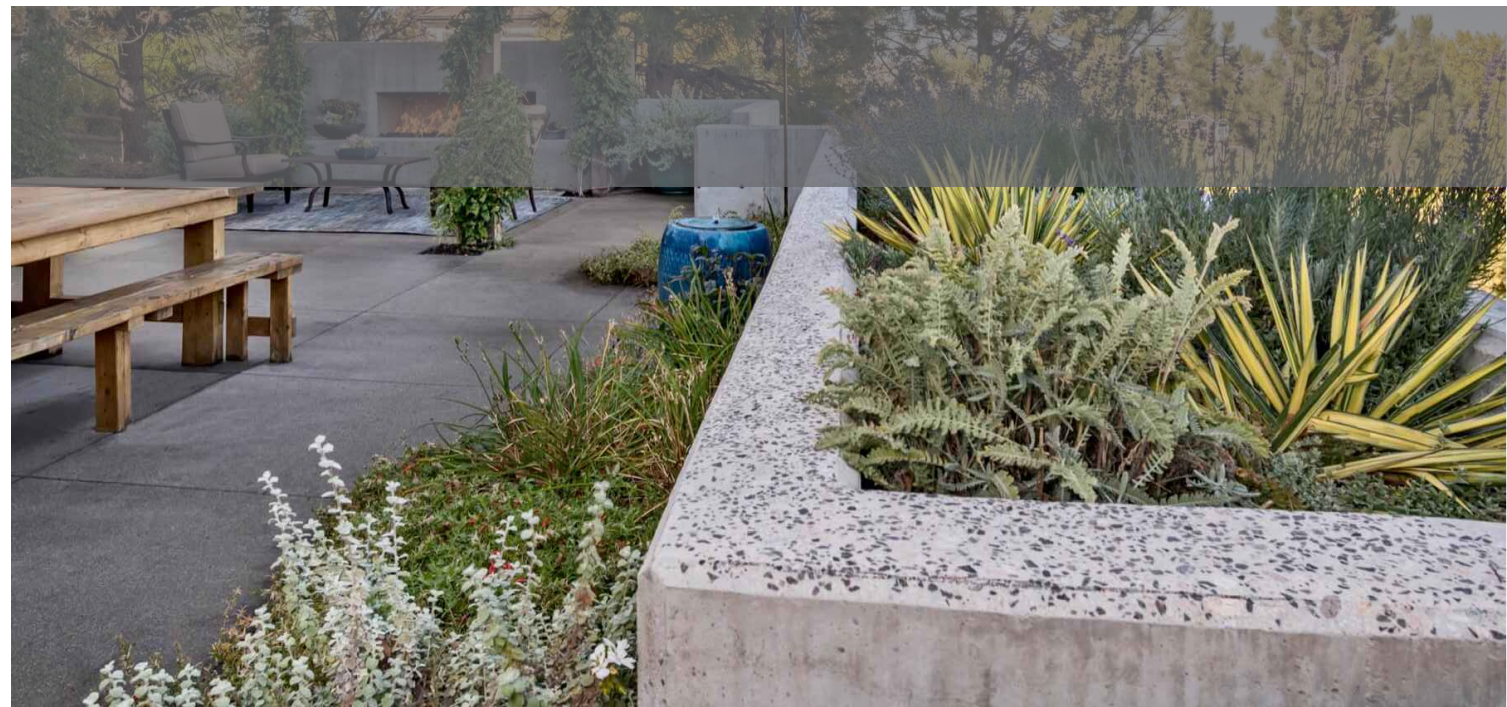
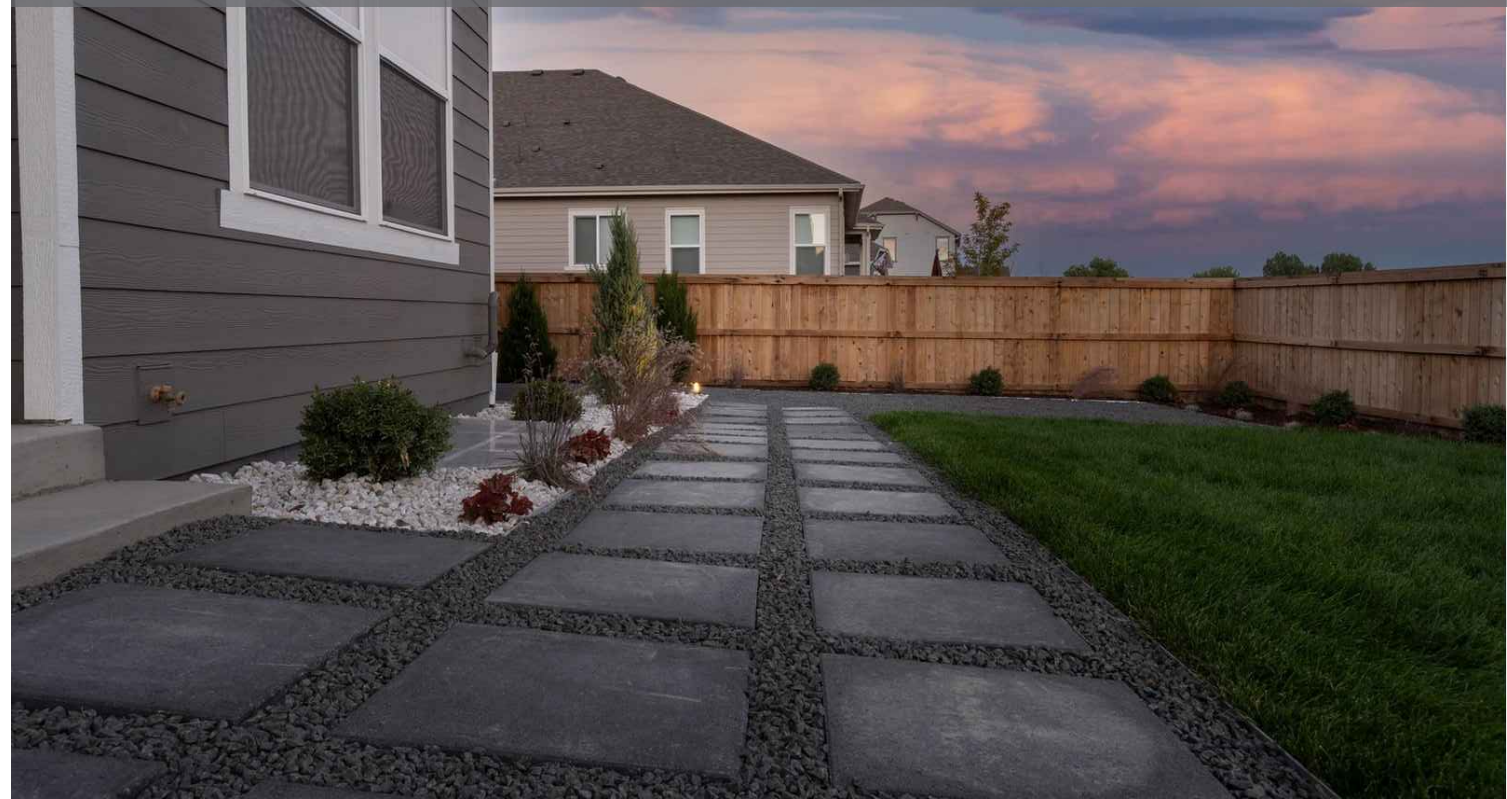
CODE	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	WATER USE	HEIGHT	SPREAD
DECIDUOUS SHRUBS							
BE TH	BERBERIS THUNBERGII 'ATROPURPUREA NANA'	DWARF RED LEAF JAPANESE BARBERRY	CONT.	#5	LOW	1'-2'	2'-3'
PH CH	PHILADELPHUS LEWISII 'CHEYENNE'	LEWIS MOCK ORANGE	CONT.	#5	LOW	6'-7'	5'-6'
PR PB	PRUNUS BESSEYI PAWNEE BUTTES	CREEPING WESTERN SAND CHERRY	CONT.	#5	LOW	2'-3'	5'-6'
RH GR	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	CONT.	#5	LOW	2'-3'	7'-8'
RH AU	RHUS TRILOBATA 'AUTUMN AMBER'	AUTUMN AMBER SUMAC	CONT.	#5	VERY LOW	1'-2'	5'-6'
SY AL	SYMPHORICARPOS ALBUS	COMMON WHITE SNOWBERRY	CONT.	#5	LOW	3'-4'	3'-4'
EVERGREEN SHRUBS							
EU EG	EUONYMUS FORTUNEI 'EMERALD GAIETY' TM	EMERALD GAIETY EUONYMUS	CONT.	#5	MOD	1'-2'	3'-4'
HE PA	HESPERALOE PARVIFLORA	RED YUCCA	CONT.	#5	VERY LOW	3'-4'	3'-4'
YU FI	YUCCA FILAMENTOSA	ADAM'S NEEDLE	CONT.	#1	LOW	2'-3'	3'-4'
PERENNIALS							
AL MO	ALCHEMILLA MOLLIS	LADY'S MANTLE	CONT.	#1	MOD	1'-2'	1'-2'
AQ CA	AQUILEGIA CAERULEA	ROCKY MOUNTAIN COLUMBINE	CONT.	#1	MOD	1'-2'	1'-2'
AS TU	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	CONT.	#1	LOW	2'-3'	1'-2'
AS LA	ASTER LAEVIS	SMOOTH ASTER	CONT.	#1	LOW	3'-4'	1'-2'
BA AU	BAPTISIA AUSTRALIS	BLUE WILD INDIGO	CONT.	#1	LOW	3'-4'	2'-3'
CE TO	CERASTIUM TOMENTOSUM	SNOW IN SUMMER	CONT.	#1	LOW	1'-2'	1'-2'
CE PL	CERATOSTIGMA PLUMBAGINOIDES	DWARF PLUMBAGO	CONT.	#1	LOW	1'-2'	1'-2'
DE NC	DELOSPERMA BASUTICUM	ICE PLANT	CONT.	#1	LOW	<1'	1'-2'
DI CR	DIASCIA INTEGERRIMA 'P009S'	CORAL CANYON® TWINSPUR	CONT.	#1	LOW	1'-2'	1'-2'
EC PU	ECHINACEA PURPUREA	PURPLE CONEFLOWER	CONT.	#1	LOW	2'-3'	1'-2'
GA AR	GAILLARDIA ARISTATA	NATIVE BLANKET FLOWER	CONT.	#1	LOW	1'-2'	1'-2'
GE ST	GERANIUM VISCOSISSIMUM	STICKY GERANIUM	CONT.	#1	LOW	2'-3'	1'-2'
HE SA	HEUCHERA X 'SNOW ANGEL'	SNOW ANGEL CORAL BELLS	CONT.	#1	MOD	1'-2'	1'-2'
LI LI	LIATRIS LIGULISTYLIS	MEADOW BLAZING-STAR	CONT.	#1	LOW	2'-3'	1'-2'
MI MU	MIRABILIS MULTIFLORA	DESERT FOUR O'CLOCK	CONT.	#1	VERY LOW	2'-3'	3'-4'
PE DI	PENSTEMON DIGITALIS 'HUSKER RED'	HUSKER RED BEARDTONGUE	CONT.	#1	LOW	2'-3'	1'-2'
PE PP	PENSTEMON MEXICALI 'PIKE'S PEAK PURPLE'	PIKES PEAK PURPLE PENSTEMON	CONT.	#1	LOW	1'-2'	<1'
PE ST	PENSTEMON STRICTUS	ROCKY MOUNTAIN PENSTEMON	CONT.	#1	LOW	1'-2'	1'-2'
RU FU	RUDBECKIA FULGIDA 'GOLDSTRUM'	BLACK-EYED SUSAN	CONT.	#1	LOW	1'-2'	1'-2'
SA SP	SAPONARIA OCYMOIDES 'SPLENDENS'	ROCK SOAPWORT	CONT.	#1	LOW	<1'	1'-2'
SE RU	SEDUM RUPESTRE 'ANGELINA'	ANGELINA STONECROP	CONT.	#1	LOW	<1'	2'-3'
SE AJ	SEDUM X 'AUTUMN JOY'	AUTUMN JOY SEDUM	CONT.	#1	LOW	1'-2'	1'-2'
SO BA	SOLIDAGO X 'GOLDKIND'	GOLDEN BABY GOLDENROD	CONT.	#1	LOW	1'-2'	1'-2'
VE SN	VERONICA SNOWMASS	SNOWMASS BLUE-EYED SPEEDWELL	CONT.	#1	LOW	<1'	1'-2'
ZA GA	ZAUSCHNERIA GARRETTII 'PWWG01S'	ORANGE CARPET® HUMMINGBIRD TRUMPET	CONT.	#1	LOW	1'-2'	1'-2'

- NOTES:
- SHRUBS, ORNAMENTAL GRASSES, AND PERENNIAL SIZING MAY BE REDUCED TO SAVE ON COST OF INSTALLATION.
 - SHRUB BED PLANTING DESIGN SHOULD ACHIEVE MINIMUM 50% COVERAGE WITHIN 2-3 GROWING SEASONS
 - FIRE SMART PLANT SCHEDULE INCLUDES PLANTS WITH RATING OF 7 OR GREATER AS DESIGNATED BY IDAHO LOW-FLAMMABILITY <<https://idahofirewise.org/firewise-landscapes/firewise-plant-materials/>>



LOWER COST

PLANTING DESIGN REINFORCES PAVING



LEGEND

---	PROPERTY LINE
---	ROW LINE (ROW)
---	FLEX SPACE
---	FENCE
---	SWALE/CULVERT
---	EASEMENT LINE
---	5' BUFFER LINE
---	30' BUFFER LINE

CODE	DESCRIPTION
WA-01	TURF - BLUEGRASS
WA-02	TURF - BUFFALO/BLUE GRAMA
WA-03	TURF - DOG TUFF
WA-04	TURF - TAHOMA 31 BERMUDAGRASS
WA-05	NATIVE GRASS - IRRIGATED ENHANCED
WA-06	NATIVE GRASS - IRRIGATED
WA-07	PLANTING BED - HIGH WATER
WA-08	PLANTING BED - MODERATE USE
WA-09	PLANTING BED - LOW WATER

CODE	DESCRIPTION
M-01	STEEL EDGING
M-02	SPADE EDGING
M-03	PERFORATED EDGER
M-04	OPTIONAL GARDEN IN-A-BOX AREA

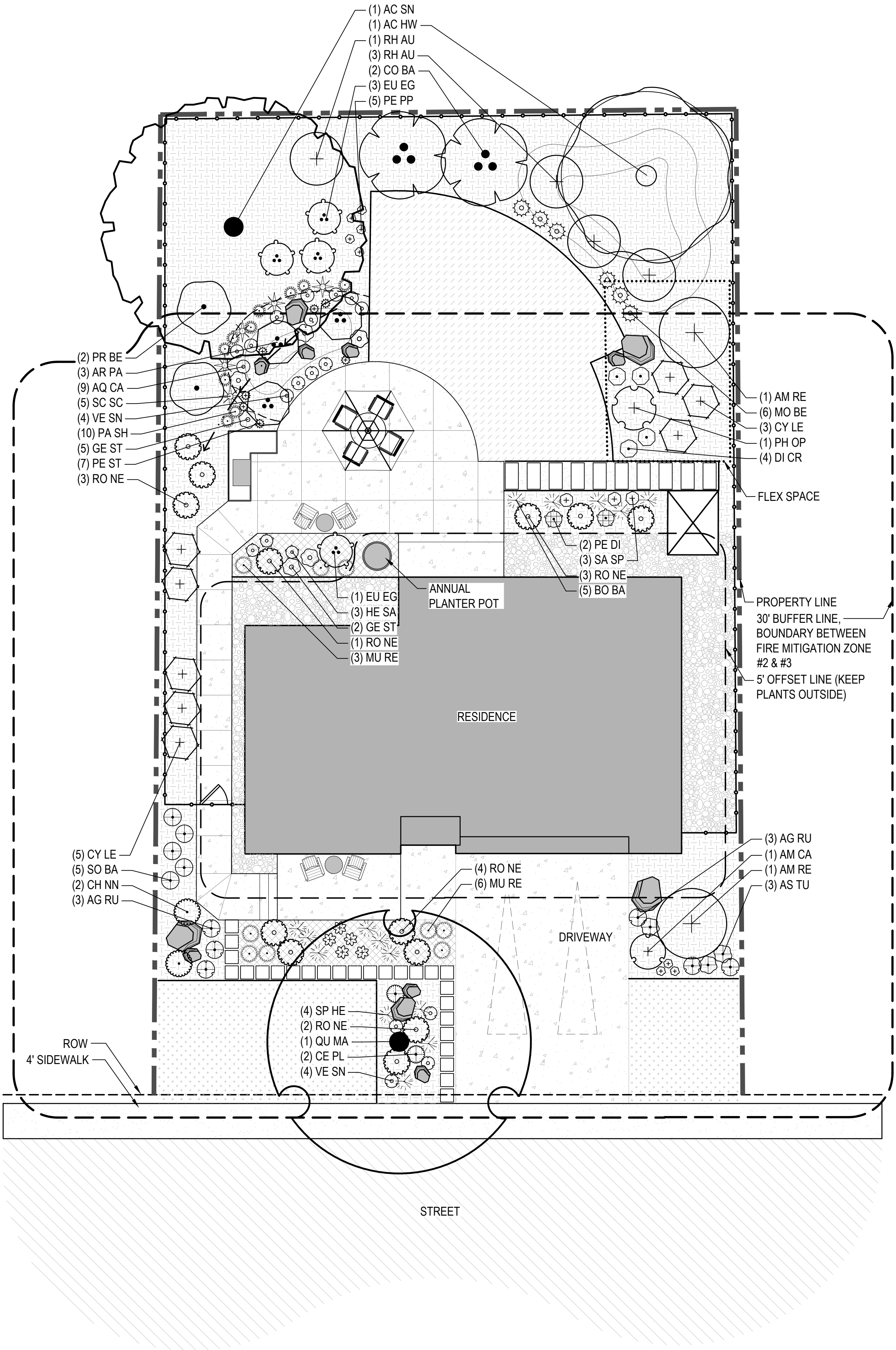
CODE	DESCRIPTION
M-05	LANDSCAPE ROCK
M-06	CRUSHER FINES
M-07	DECORATIVE ROCK

SYMBOL	DESCRIPTION
N-08	LANDSCAPE BOULDER

CODE	DESCRIPTION
P-01	ASPHALT PAVEMENT
P-02	PAVERS
P-03	DECORATIVE PAVERS
P-04	POROUS PAVERS
P-05	CONCRETE PAVEMENT

CODE	DESCRIPTION
N-01	TREE LOCATIONS
N-02	SHRUB PLANTING
N-03	PERENNIAL PLANT LAYOUT
N-04	SHED
N-05	GRILL
N-06	FURNITURE BY OWNER
N-07	MOW LINE
N-08	RAIN GARDEN
N-09	RAIN BARREL
N-10	SWALE/CULVERT
N-11	CONCRETE/FLAGSTONE STEPPERS
N-12	FREESTANDING WALL
N-13	RETAINING WALL
N-14	LANDSCAPE BOULDER WALL
N-15	PLANTER WALL

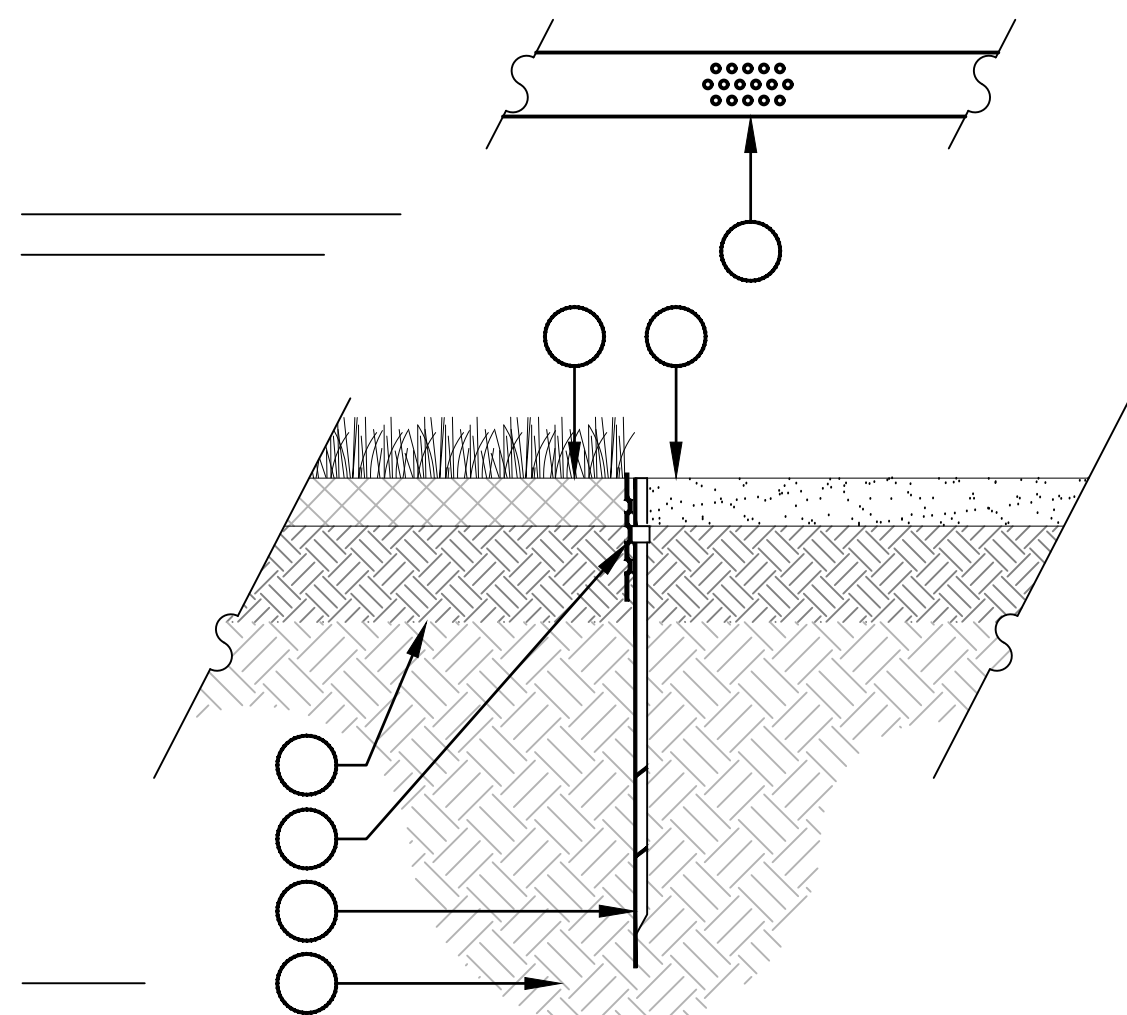
Plan is conceptual and subject to change.



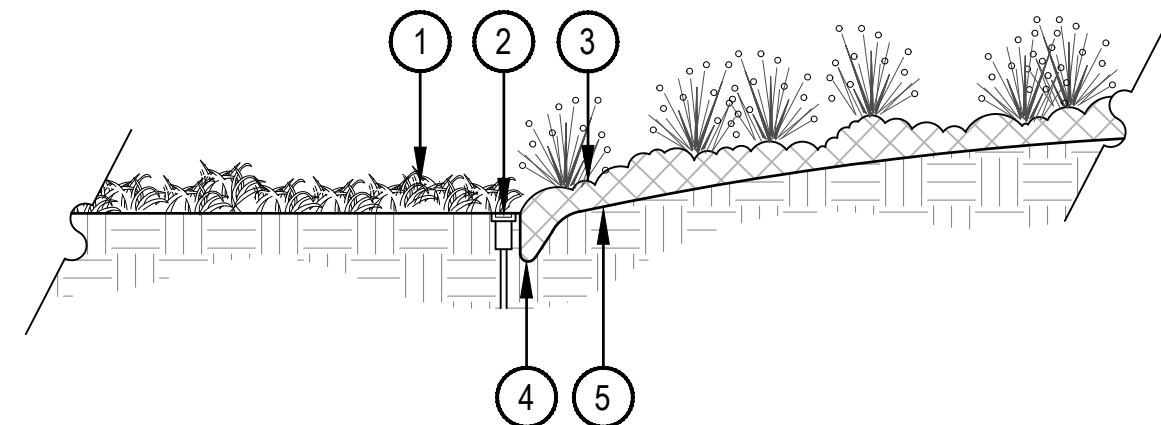
LEGEND	
	PROPERTY LINE
	ROW LINE (ROW)
	FLEX SPACE
	FENCE
	SWALE/CULVERT
	EASEMENT LINE
	5' BUFFER LINE
	30' BUFFER LINE

SYMBOL	DESCRIPTION
	TURF - BLUEGRASS
	TURF - BUFFALO/BLUE GRAMA
	TURF - DOG TUFF
	TURF - TAHOMA 31 BERMUDAGRASS
	NATIVE GRASS - IRRIGATED ENHANCED
	NATIVE GRASS - IRRIGATED
	PLANTING BED - HIGH WATER
	PLANTING BED - MODERATE USE
	PLANTING BED - LOW WATER
CODE	DESCRIPTION
M-01	STEEL EDGING
M-02	SPADE EDGING
M-03	PERFORATED EDGER
M-04	OPTIONAL GARDEN IN-A-BOX AREA
	DESCRIPTION
	LANDSCAPE BOULDER
SYMBOL	DESCRIPTION
	LANDSCAPE ROCK
	CRUSHER FINES
	DECORATIVE ROCK

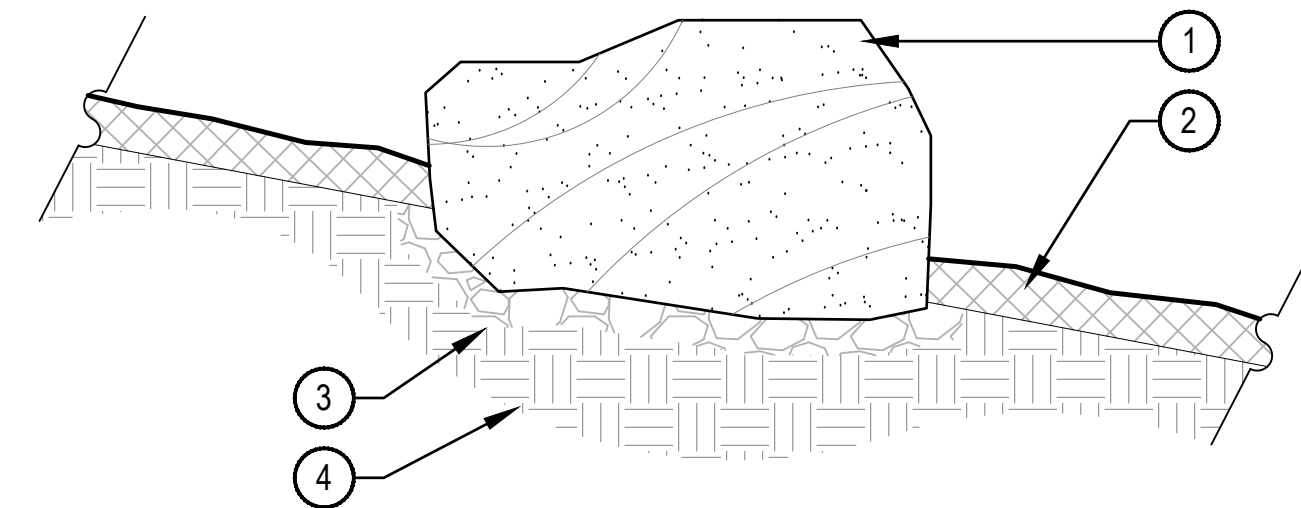
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- 1 FINISHED GRADE, TOP OF SOD THATCH LAYER AND TOP OF MULCH OR CRUSHER FINES SHALL BE FLUSH WITH TOP OF EDGER
- 2 AMENDED SOIL PER SPECIFICATIONS
- 3 METAL EDGER, DRILL (16) 1/2" DIAMETER HOLES 1" ON CENTER MINIMUM AT ALL LOW POINTS OR POORLY DRAINING AREAS IN ORDER TO ENSURE ADEQUATE DRAINAGE
- 4 EDGER STAKE
- 5 SUBGRADE COMPACTED TO 95% STANDARD PROCTOR DENSITY



- 1 TURFGRASS OR NATIVE GRASS SEED AREA
- 2 IRRIGATION HEADS SHOULD BE LOCATED ADJACENT TO MULCH BEDS, OFFSET HEAD INTO GRASS AREA TO ENSURE STABLE SUPPORT
- 3 PLANTING BED
- 4 VERTICAL SPADE CUT EDGE FILLED WITH SPECIFIED MULCH, TAPER EDGE OF BED SO MULCH IS DEEPER AGAINST SPADED EDGE
- 5 SPECIFIED DEPTH OF MULCH, TYPICALLY WOOD MULCH 3"-4" DEEP



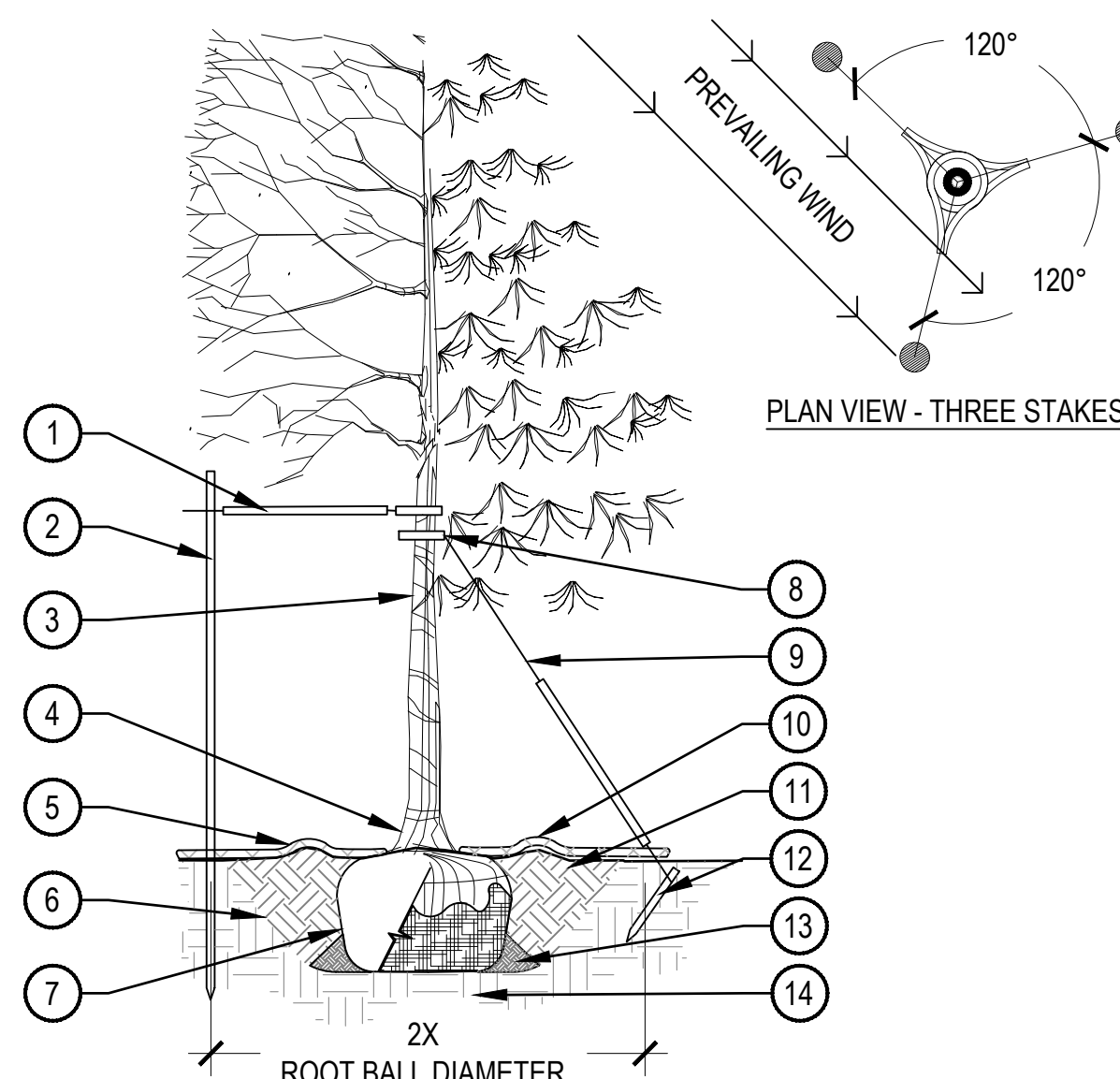
BOULDER SIZE	
ITEM	SIZE
SMALL BOULDER	18"-30" DIAMETER X 18" MINIMUM DEPTH
MEDIUM BOULDER	30 - 48" DIAMETER X 24" MINIMUM DEPTH
LARGE BOULDER	48 - 60" DIAMETER X 32" MINIMUM DEPTH

- NOTES:
1. THESE ARE FREE STANDING BOULDERS ONLY. BOULDERS ASSOCIATED WITH THE BOULDER RETAINING WALLS, PARK ENTRY SIGNS AND INTERPRETIVE SIGNS ARE NOT INCLUDED IN THIS COUNT.
 2. THE OWNERS REPRESENTATIVE SHALL APPROVE LOCATIONS AND SIZES OF ALL BOULDERS PRIOR TO PLACING.
 3. CONTRACTOR SHALL SUBMIT SAMPLE OR PHOTOS FOR APPROVAL.

CONTRACTOR SHALL INSTALL STAKES AS REQUIRED BY THE MANUFACTURER.

2 SPADE CUT EDGE

SCALE: 1" = 1'-0"



- 1 PLACE MINIMUM 1/2" PVC PIPE AROUND EACH WIRE, EXPOSED WIRE SHALL BE MAXIMUM 2" EACH SIDE
- 2 6'-0"UNTREATED WOOD POST, MINIMUM 1.5" DIAMETER, ALL SHALL BE DRIVEN OUTSIDE ROOTBALL AND IN UNDISTURBED SOIL
- 3 TREE WRAP TO BE INSTALLED ONLY FROM OCTOBER 1 THROUGH APRIL 30, DECIDUOUS ONLY, WRAP FROM BASE OF TRUNK TO BOTTOM LIMB
- 4 PLANT TREE SO THAT TOP MOST MAJOR ROOT IS 1"-2" ABOVE FINISHED GRADE
- 5 2'-0" RADIUS MULCH RING, CENTERED ON TRUNK, 3" DEPTH. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK, FINISHED GRADE REFERENCES TOP OF MULCH
- 6 1:1 SLOPE ON SIDES OF PLANTING HOLE
- 7 ROPES AT TOP OF ROOTBALL SHALL BE CUT, REMOVE TOP 1/3 OF BURLAP, NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED
- 8 GROMMETED NYLON STRAPS
- 9 GALVANIZED WIRE, MINIMUM 12 GAUGE CABLE, TWIST WIRE ONLY TO KEEP FROM SLIPPING
- 10 4-6" HIGH WATER SAUCER IN NON-TURF AREAS
- 11 BACKFILL WITH BLEND OF EXISTING SOIL AND A MAXIMUM 20%, BY VOLUME, ORGANIC MATERIAL, WATER THOROUGHLY WHEN BACKFILLING
- 12 2'-0" STEEL T-POST, ALL SHALL BE DRIVEN BELOW GRADE AND OUTSIDE ROOTBALL IN UNDISTURBED SOIL
- 13 PLACE SOIL AROUND ROOT BALL FIRMLY, DO NOT COMPACT OR TAMP, SETTLE SOIL WITH WATER TO FILL ALL AIR POCKETS
- 14 PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT

DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL

STAKING OF TREES IS RECOMMENDED PER THE FOLLOWING SCHEDULE, THEN REMOVE

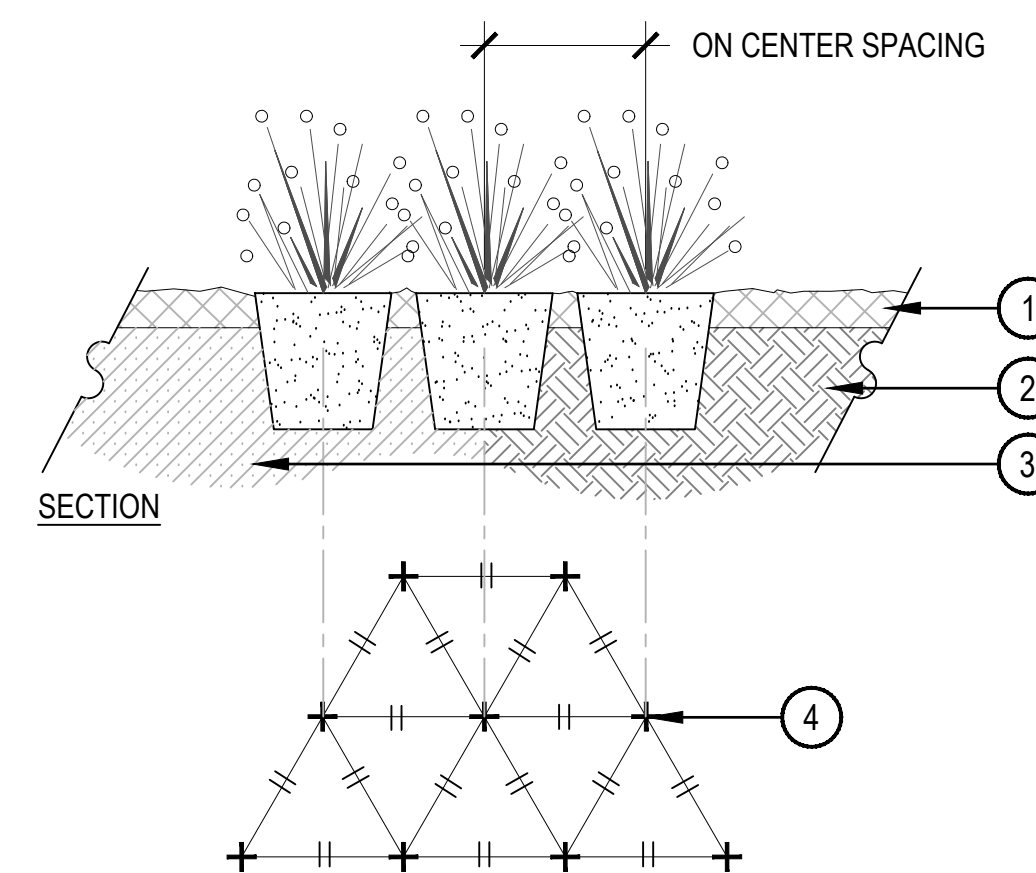
" CALIPER SIZE - MIN. 1 STAKE ON SIDE OF PREVAILING WIND (GENERALLY N.W.

" - 3" CALIPER SIZE - MIN. 2 STAKES - ONE ON N.W. SIDE, ONE ON S.W. SIDE (OR

WIRE OR CABLE SHALL BE MIN. 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE * OF GROWTH AND BUFFER ALL BRANCHES

3 LANDSCAPE BOULDER

SCALE: 3/4" = 1'-0"

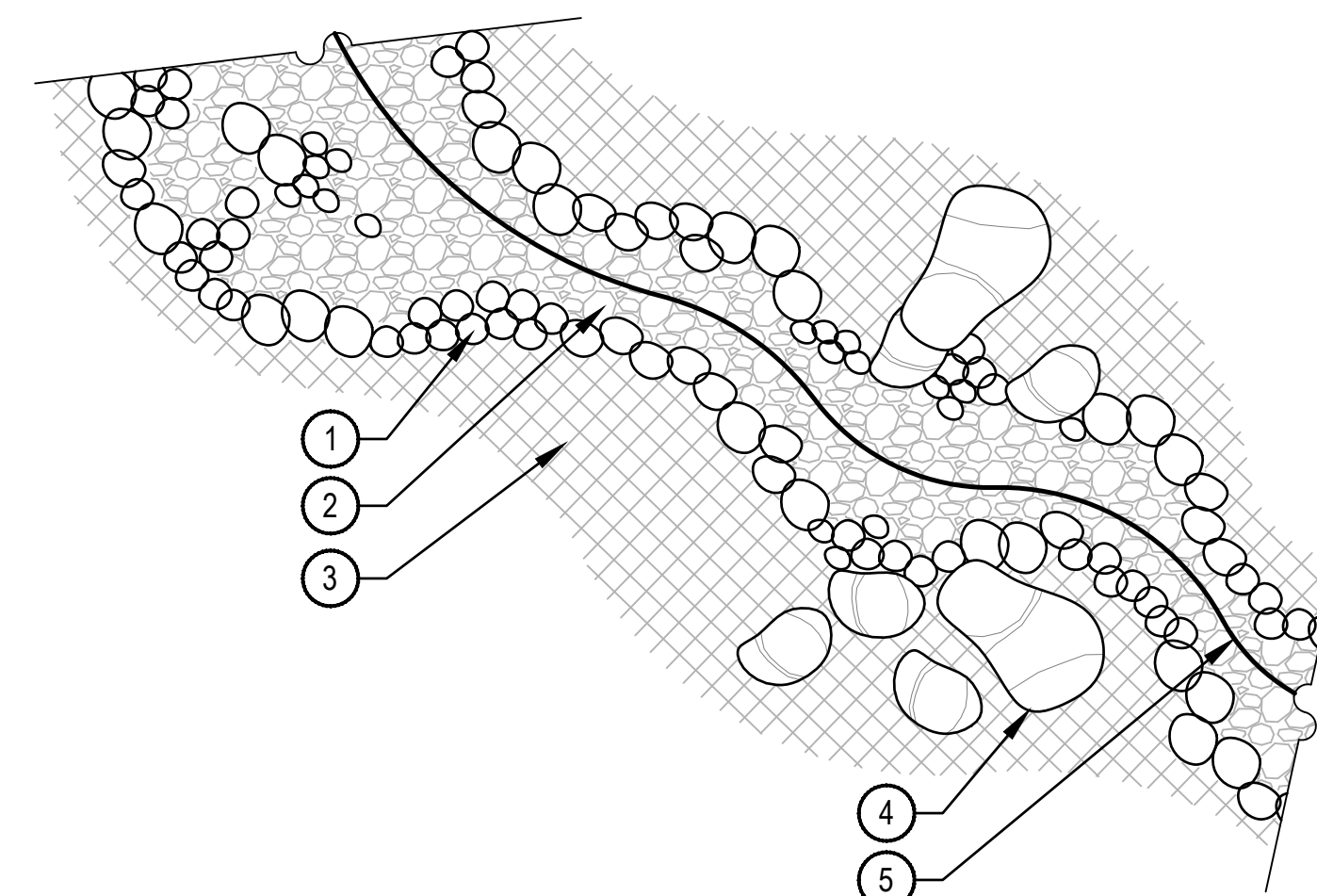


- PLAN NOTES:
1. WHEN SIMILAR SIZE PLANTS ARE MASSED IN GROUPS OF 3 OR MORE THE TRIANGULAR SPACING ILLUSTRATED IN PLAN VIEW IS RECOMMENDED.

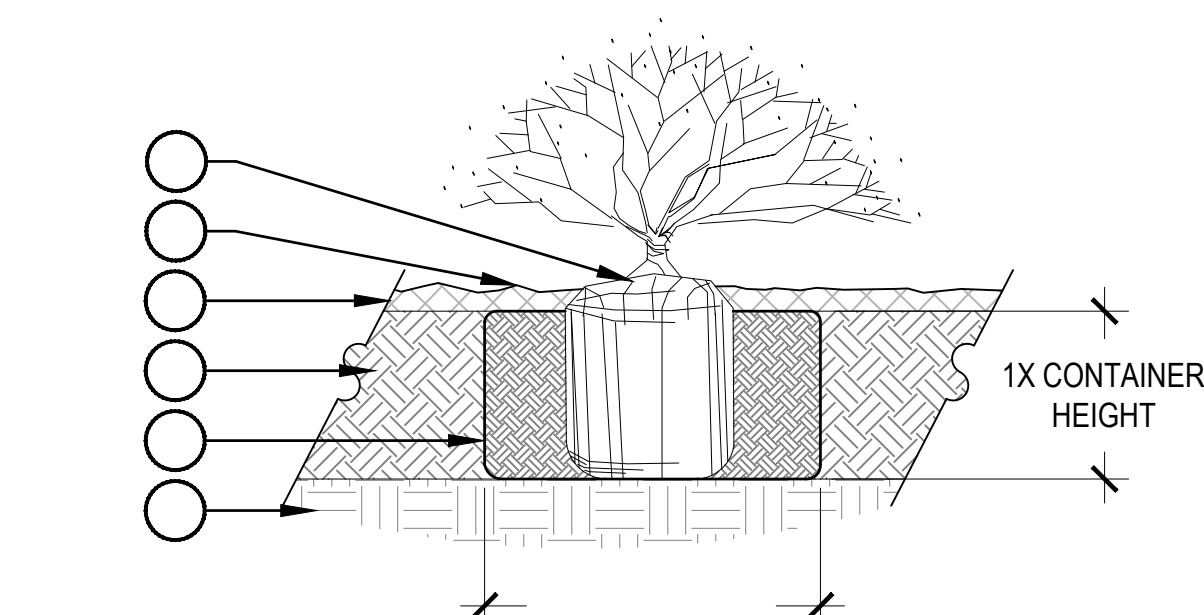
- 1 SPECIFIED MULCH, REFER TO LANDSCAPE NOTES SECTION
- 2 **MODERATE OR HIGH WATER NON-NATIVE PLANTS** - AMENDED PLANTING BED TILLED TO A DEPTH OF 6" WITH: ORGANIC COMPOST AS RECOMMENDED IN THE LANDSCAPE NOTES SECTION OR AS VERIFIED WITH SOIL TESTING.
- 3 **LOW WATER NATIVE PLANTS** - AMEND PLANTING PIT WITH 3/8" MINUS PEA GRAVEL (SQUEEGEE) UP TO 1/3 OF THE TOTAL VOLUME OF THE PLANTING PIT. MIX COMPLETELY WITH EXISTING SOIL DUG FROM THE PLANTING PIT. COMPOST AMENDMENT CAN BE MINIMIZED OR ELIMINATED IN AREAS WHERE ALL NATIVE PLANTS ARE USED.
- 4 CENTER OF PLANT

5 PERENNIAL PLANT LAYOUT

SCALE: 1" = 1'-0"



- NOTES:
1. THERE SHALL BE NO STEEL EDGER BETWEEN COBBLE SWALE AND LANDSCAPE BED.
 2. SPECIFIED WEED BARRIER FABRIC SHALL BE INSTALLED UNDER ALL COBBLE. NO WEED BARRIER FABRIC SHALL BE VISIBLE.



CARE SHOULD BE TAKEN NOT TO DAMAGE THE SHRUB OR ROOT-BALL WHEN REMOVING IT FROM ITS CONTAINER.

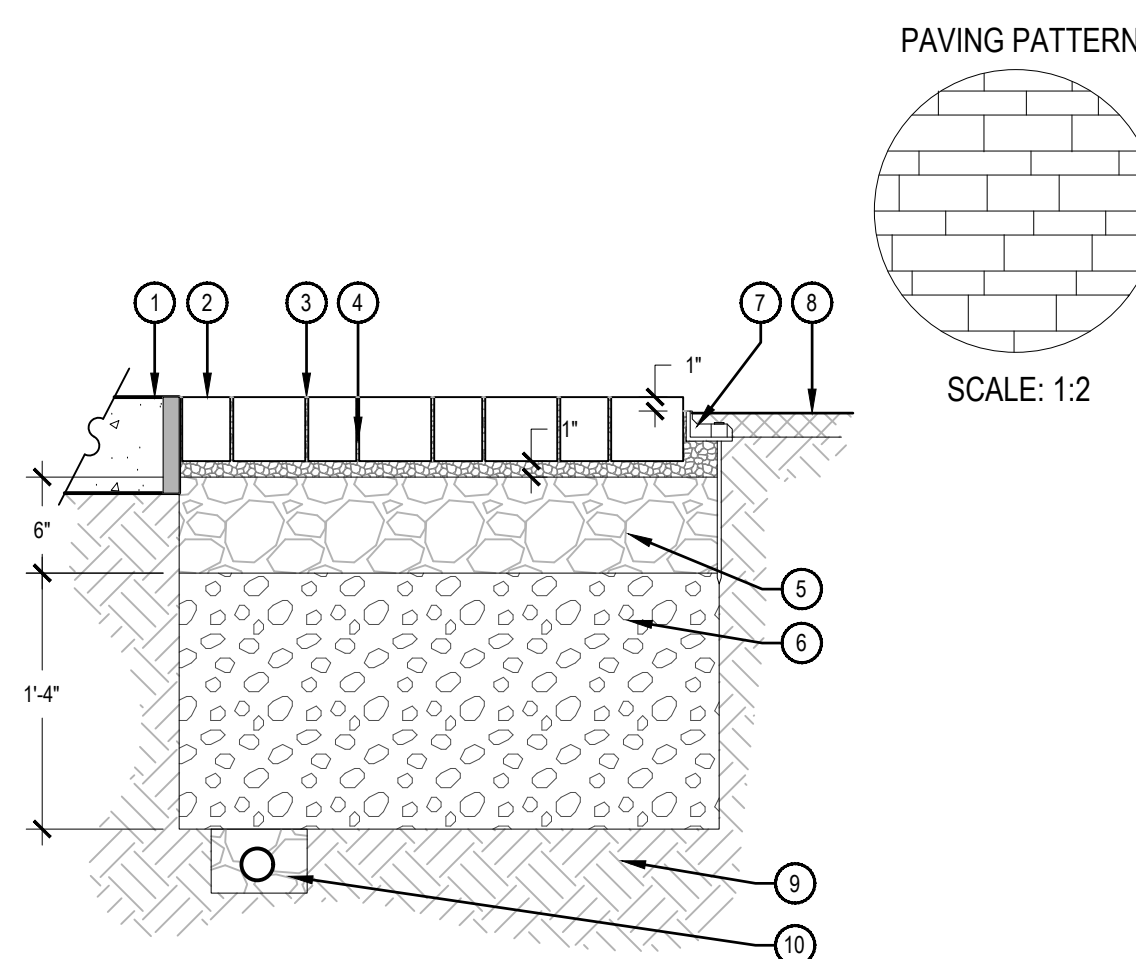
PRUNE ALL DEAD OR DAMAGED WOOD PRIOR TO PLANTING, DO NOT PRUNE MORE THAN 20% OF LIMBS.

- IF PLANTING BED AREA IS AMENDED THROUGHOUT WITH ORGANIC COMPOST,

- * MINUS PEA GRAVEL (SQUEEGEE) UP TO 1/3 OF THE TOTAL VOLUME OF THE PLANTING PIT. MIX COMPLETELY WITH EXISTING SOIL DUG FROM THE PLANTING PIT BEFORE BACKFILL AND PLANTING. COMPOST AMENDMENT CAN BE MINIMIZED OR ELIMINATED IN AREAS WHERE ALL NATIVE PLANTS

7 PERMEABLE PAVING

SCALE: 1 1/2" = 1'-0"



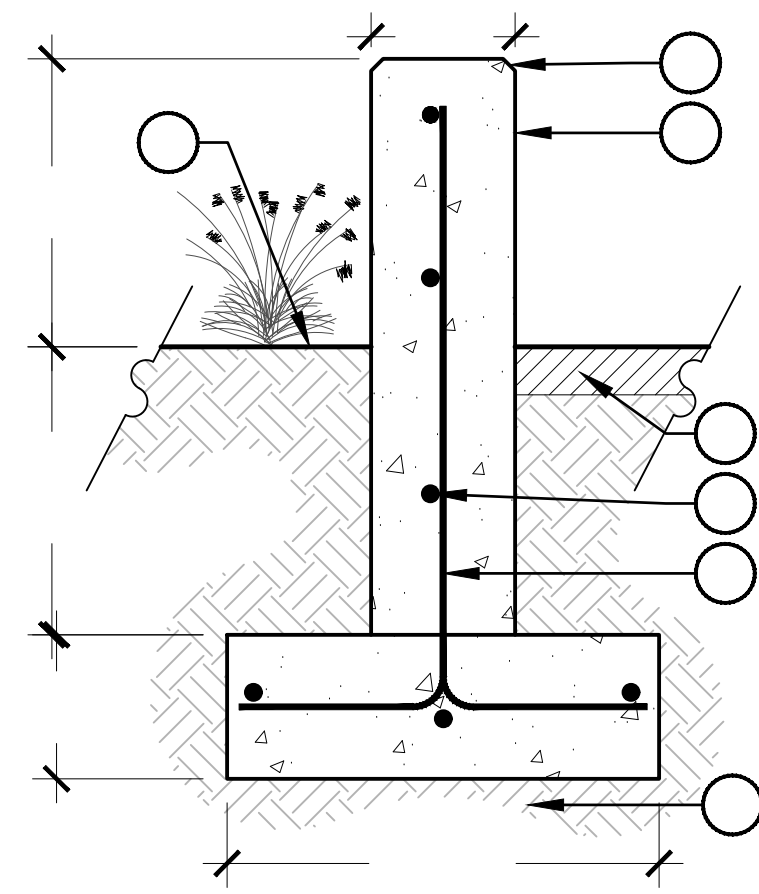
- NOTES:
1. PROVIDE SMOOTH TRANSITION BETWEEN PLANK PAVING AND ADJACENT SURFACES.
 2. PROVIDE POSITIVE DRAINAGE FROM ALL PAVING SURFACES.

- 1 ADJACENT PAVING, REFER TO HARDSCAPE PLANS
- 2 ECO-LINE, UNILOCK PERMEABLE PAVERS, REFER TO MATERIALS SCHEDULE, SHEET LS-100
- 3 PERMEABLE JOINT OPENING AGGREGATE, 3/8 INCH
- 4 1" PERMEABLE SETTING BED AGGREGATE
- 5 6" MIN PERMEABLE BASE AGGREGATE
- 6 16" MIN PERMEABLE SUBBASE AGGREGATE
- 7 SEK SUREBOND SNAP EDGE PAVER EDGING WITH 10" METAL STAKE, OR APPROVED EQUAL
- 8 ADJACENT LANDSCAPE, REFER TO PLANS
- 9 SUBGRADE MATERIAL, MIN 5% SLOPE TO DRAIN, RE: CIVIL
- 10 PVC UNDERDRAIN PIPE

8 COBBLE SWALE

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

Plan is conceptual and subject to change.

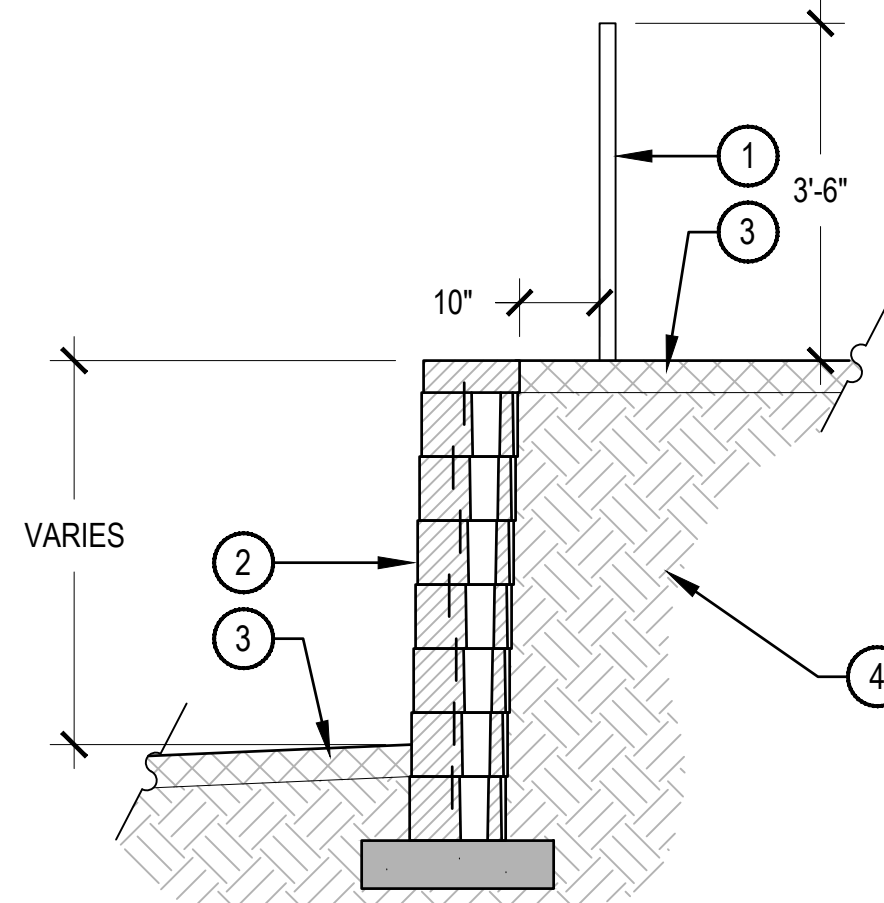


- 1 STANDARD GRAY CONCRETE WITH SMOOTH ARCHITECTURAL FINISH. OPTION TO USE INTEGRAL COLOR AND/OR BOARD FORM FINISH
- 2 COMPACTED SUBGRADE
- 3 #4 CONTINUOUS REBAR, 18" ON CENTER, ALTERNATE HOOKS ON VERTICAL
- 4 #4 CONTINUOUS REBAR, DOWN LENGTH OF FOOTER
- 5 FINISH MATERIAL VARIES, REFER TO PLAN LAYOUT
- 6 1" CHAMFER ON ALL EXPOSED EDGES
- 7 ADJACENT LANDSCAPE BED

ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.

VERTICAL CONTROL JOINTS SHALL BE 10' ON CENTER WITH EXPANSION JOINTS 50' ON CENTER, UNLESS OTHERWISE NOTED. VERTICAL FACES OF WALL SHALL BE PLUMB, WITH NO INCONSISTENCIES GREATER THAN 1/4" IN 10'-0" MEASURED IN ANY

WALL SHALL BE INSTALLED SO HORIZONTAL CURVES ARE SMOOTH AND FREE-FLOWING AS SHOWN ON PLANS. THIS DETAIL IS CONCEPTUAL AND FOR REFERENCE ONLY. SITE WALLS REQUIRE SITE SPECIFIC ENGINEERING DESIGN.



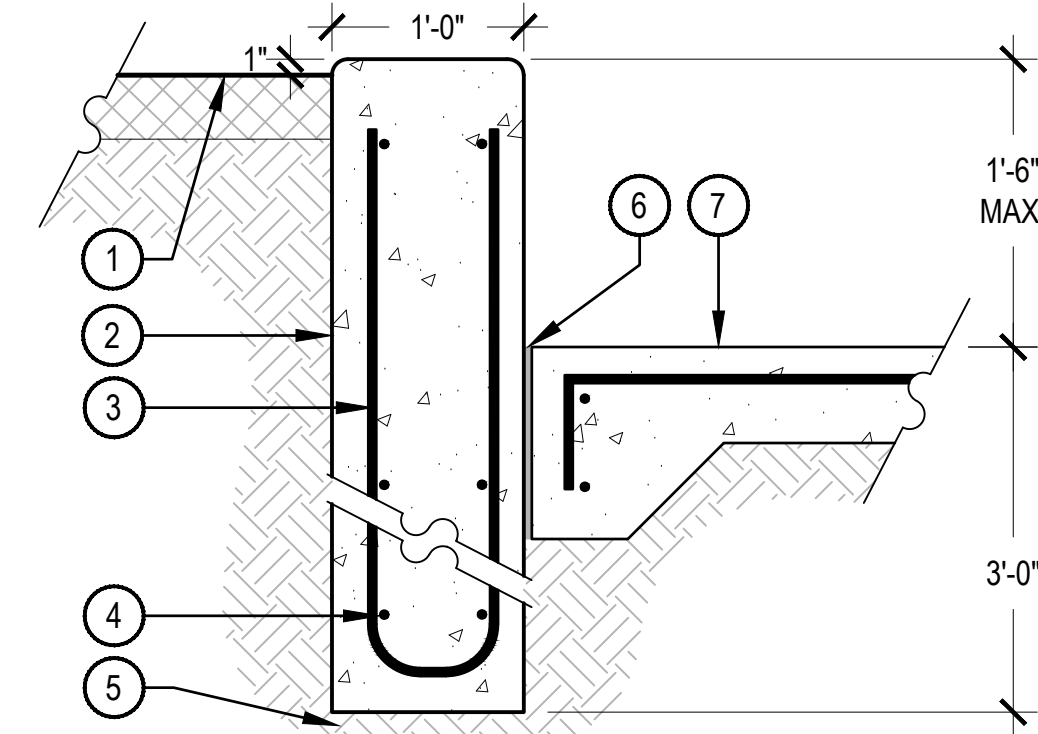
- 1 BARRIER RAILING.MOUNT IN LANDSCAPE. TO BE INSTALLED WHEN RETAINING WALL IS 29" OR TALLER
- 2 BLOCK RETAINING WALL
- 3 ADJACENT LANDSCAPE
- 4 SUBGRADE COMPACTED PER MANUFACTURER'S SPECIFICATIONS

NOTES:

1. THIS DETAIL IS CONCEPTUAL AND FOR REFERENCE ONLY. SITE WALLS OVER 3 FEET IN HEIGHT REQUIRE SITE SPECIFIC ENGINEERING DESIGN.
2. BARRIER RAILING TO BE SELECTED BY HOMEOWNER.
3. BLOCK RETAINING WALL TO BE SELECTED BY HOMEOWNER.
4. WHEN WALLS ARE TIERED, MINIMUM 5'-0" BETWEEN WALLS.

2 RETAINING WALL

SCALE: 3/4" = 1'-0"



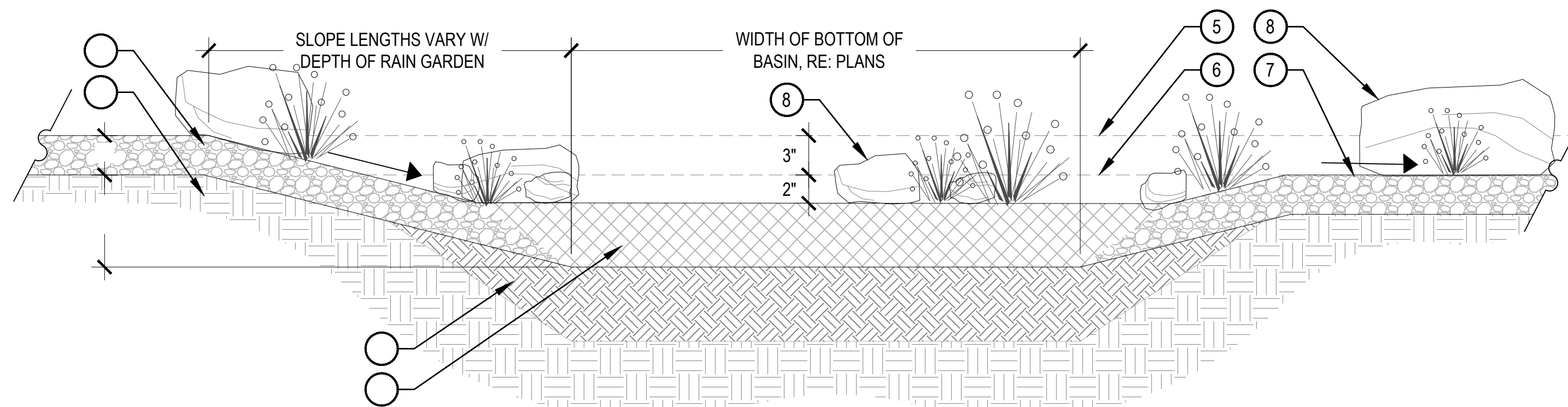
- 1 SURROUNDING LANDSCAPE, REFER TO PLANS
- 2 CONCRETE SEATWALL, 1" RADIUS ON ALL EXPOSED CORNERS, SMOOTH ARCHITECTURAL FINISH
- 3 #4 REBAR, 24" ON CENTER SPACED FOR LENGTH OF WALL
- 4 (3) #4 REBAR SPACED EQUALLY ON EACH SIDE OF THE WALL, CONTINUOUS ALONG THE LENGTH OF THE WALL, OVERLAP 12" AT SPLICES
- 5 SUBGRADE COMPACTED TO 95% STANDARD PROCTOR DENSITY
- 6 EXPANSION JOINT
- 7 SURROUNDING HARDSCAPE, REFER TO PLAN LAYOUT

NOTES:

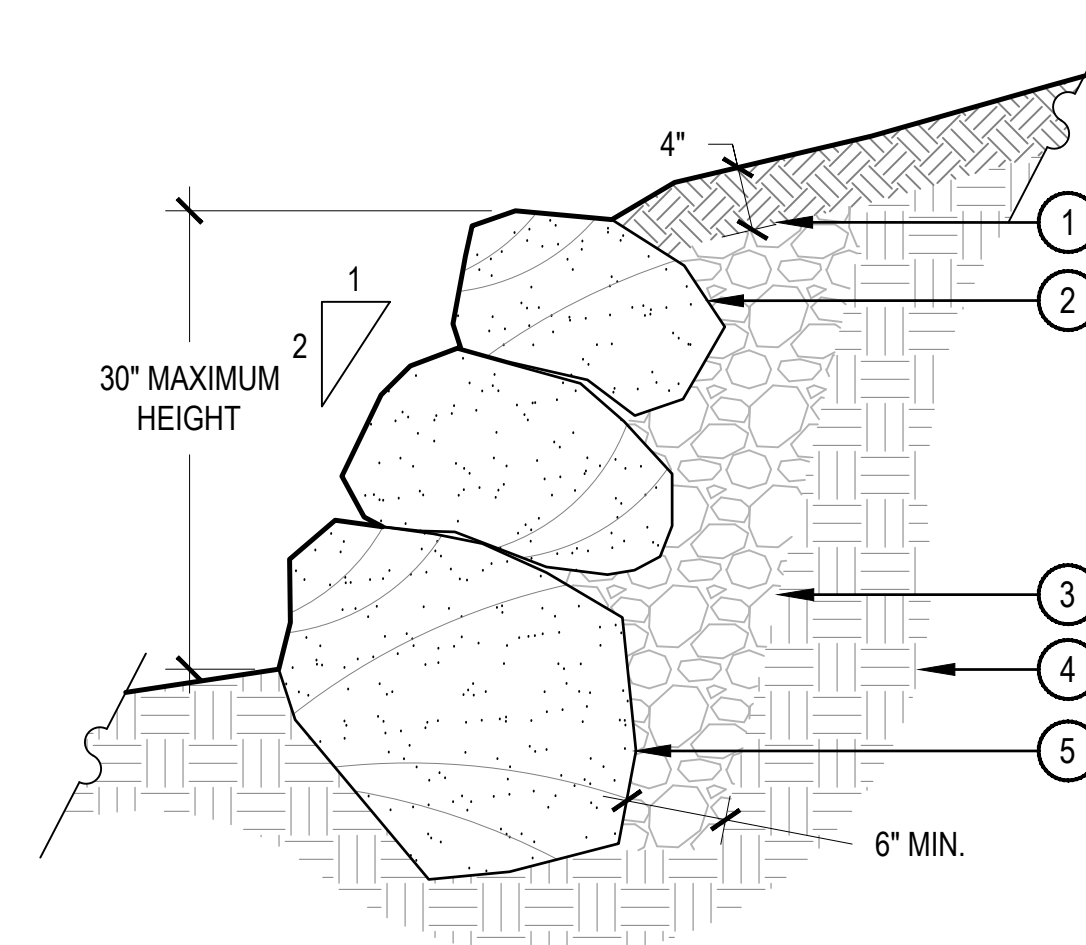
1. THIS DETAIL IS CONCEPTUAL AND FOR REFERENCE ONLY. SITE WALLS REQUIRE SITE SPECIFIC ENGINEERING DESIGN.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
3. MINIMUM BURY DEPTH ON ALL REBAR SHALL BE 2'-1/2".
4. VERTICAL CONTROL JOINTS SHALL BE 10' ON CENTER WITH EXPANSION JOINTS 50' ON CENTER, UNLESS OTHERWISE NOTED.
5. VERTICAL FACES OF WALL SHALL BE PLUMB, WITH NO INCONSISTENCIES GREATER THAN 1/4" IN 10'-0" MEASURED IN ANY DIRECTION ALONG THE FACE OF THE WALL.
6. SEATWALL SHALL BE INSTALLED SO HORIZONTAL CURVES ARE SMOOTH AND FREE-FLOWING AS SHOWN ON PLANS.

3 CONCRETE PLANTER SEATWALL

SCALE: 1" = 1'-0"



- 1 RIVER ROCK
- 2 UNDISTURBED SUBGRADE
- 3 AMENDED TOPSOIL
- 4 PEA GRAVEL MULCH
- 5 TOP ELEVATION OF BERM AROUND RAIN GARDEN. 3" ABOVE MAX PONDING LEVEL
- 6 ELEVATION OF MAX PONDING DURING STORM EVENT. PONDING 2" OF RAINWATER ABOVE PEA GRAVEL
- 7 OVERFLOW PATH AWAY FROM HOME
- 8 LANDSCAPE BOULDERS PER PLAN LAYOUT
- 9 A MIX OF 3"-10" COBBLE, SET ALONG EDGE OF RAIN GARDEN BASIN AS WELL AS IN A FEW INTERIOR AREAS TO CREATE A LOOSE, NATURALISTIC LOOK

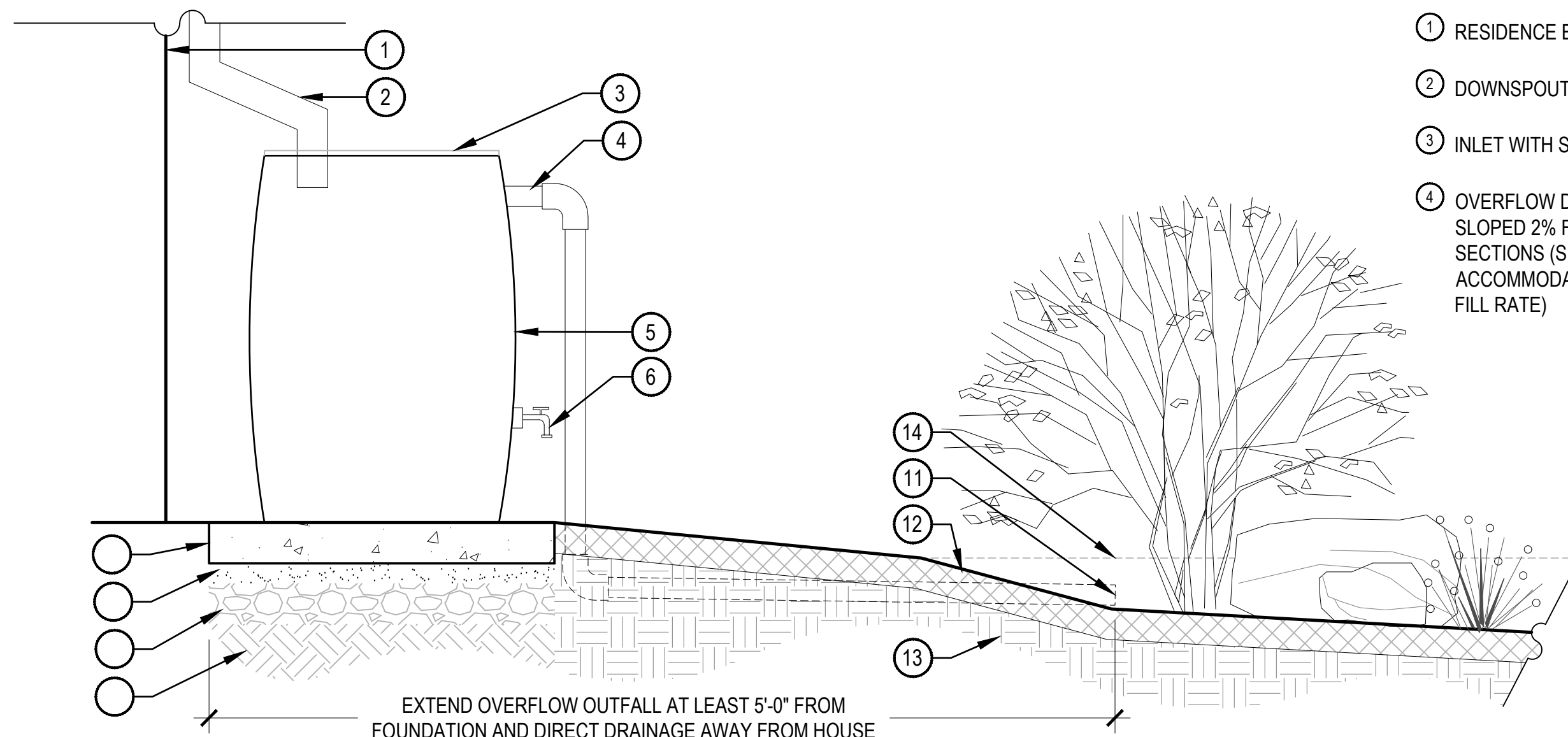


NOTES:

1. STACK BOULDERS WITH 2:1 BATTER AND LEAN TO UPHILL SIDE, BOULDERS SHOULD BE NO SMALLER THAN 18"X18"X18".

5 BOULDER RETAINING WALL

SCALE: 1" = 1'-0"



- 1 RESIDENCE BUILDING
- 2 DOWNSPOUT
- 3 INLET WITH SCREEN
- 4 OVERFLOW DRAINAGE PIPE, SLOPED 2% FOR HORIZONTAL SECTIONS (SIZE PIPE TO ACCOMMODATE RAIN WATER FILL RATE)
- 5 RAIN BARREL TANK (UP TO TWO 55-GALLON BARRELS ALLOWED)
- 6 HOSE BIB, BALL VALVE
- 7 PLATFORM, CIDER BLOCKS, BRICKS, OR POUR IN PLACE CONCRETE
- 8 PEA GRAVEL
- 9 4" ROCK MULCH
- 10 COMPACTED SUBGRADE
- 11 OVERFLOW TO OUTLET AT THE COBBLE SWALE (SEE TEMPLATE #4 PLAN)
- 12 SPECIFIED MULCH OR COBBLE, SEE PLANS
- 13 UNDISTURBED SOIL
- 14 SURROUNDING GRADE, BEHIND

EXTEND OVERFLOW OUTFALL AT LEAST 5'-0" FROM FOUNDATION AND DIRECT DRAINAGE AWAY FROM HOUSE

SCALE: 1" = 1'-0"

Plan is conceptual and subject to change.