PRELIMINARY PROPOSED PLANT PALETTE

BOTANICAL NAME	COMMON NAME	SIZE	WIDTH / HEIGHT	WATER USE	QUANTITY
TREES					
#XX **EXISTING TREE TO REMAIN** #XXX					
#XX **EXISTING TREE TO BE REMOVED** #XXX					
SPECIMEN TREES					
OLEA 'WILSONII'	WILSON OLIVE	24" BOX	25' WIDE/25' HIGH	LOW	3
TRISTANIA CONFERTA	BRISBANE BOX	24" BOX	25' WIDE/30-40' HIGH	LOW-MEDIUM	5
ACCENT TREES					
PYRUS C. 'CAPITAL'	CAPITAL PEAR	24" BOX	12' WIDE/25' HIGH	LOW	7
EVERGREEN TREES					
ARBUTUS MARINA	STRAWBERRY TREE	24" BOX	20' WIDE/30' HIGH	LOW	6
PRUNUS CAROLINIANA 'COMPACTA'	CAROLINA CHERRY	15 GALLON	15' WIDE/10' HIGH	LOW	13
LAURUS NOBILIS	SWEET BAY	24" BOX	15' WIDE/15' HIGH	LOW	10
BOARDWALK TREES					
ARBUTUS MENZIESII	MADRONE	15 GALLON	30' WIDE/30' HIGH	LOW	1
CORNUS NUTTALII	PACIFIC DOGWOOD	15 GALLON	15' WIDE/15' HIGH	LOW	10

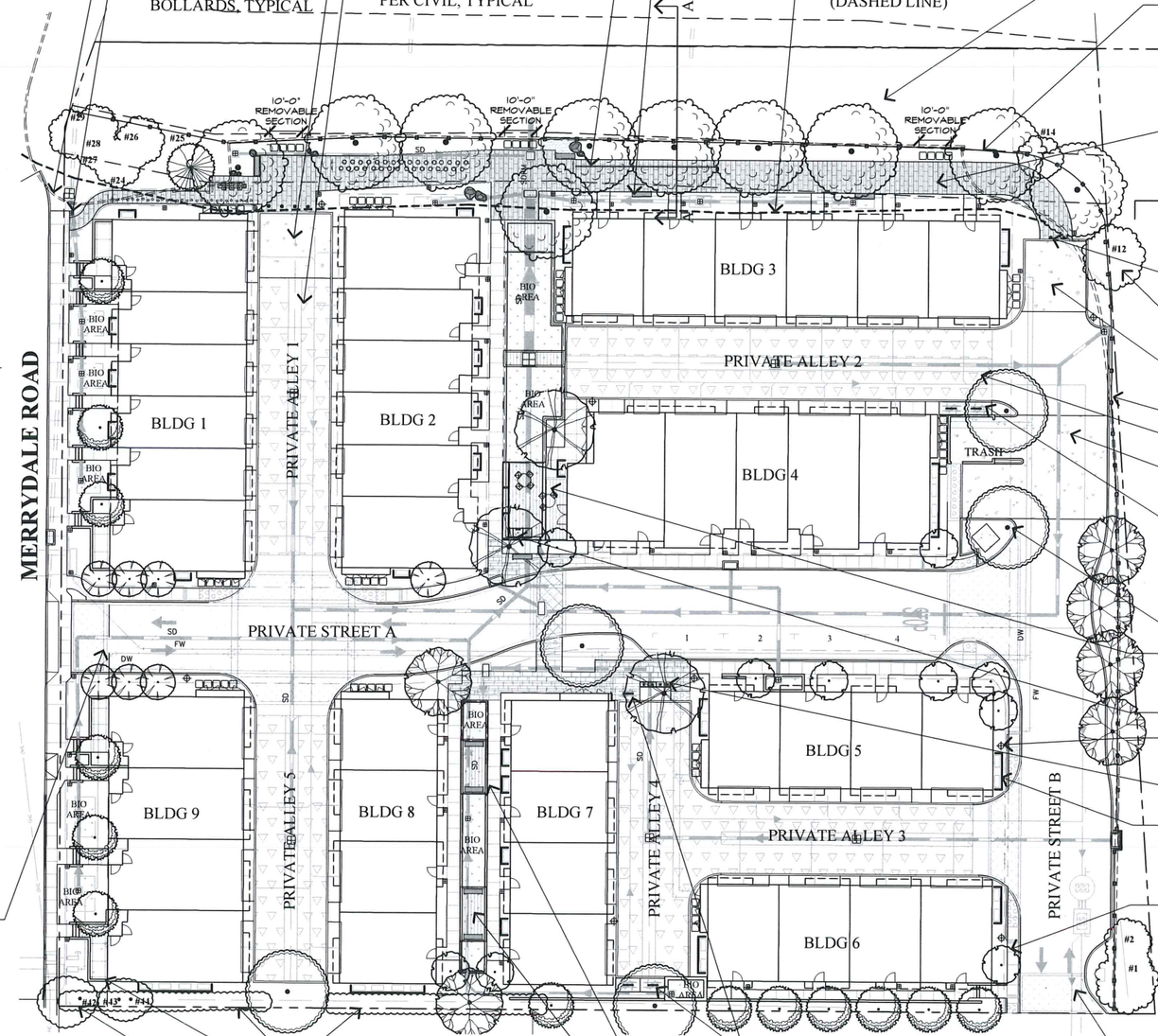
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	QUANTITIES
SHRUBS					
ACH 'MOO'	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	1 GALLON	LOW	58
ANI 'B.P.'	ANIGOZANTHOS 'BUSH PEARL'	DWARF KANGAROO PAW	1 GALLON	LOW	238
BOU 'B.A.'	BOUTALOUA G. 'BLONDE AMBITION'	BLUE GRAMA GRASS	1 GALLON	LOW	144
BUD 'DWF'	BUDDLEJA D. 'DWARF VARIETY'	DWARF BUTTERFLY BUSH	5 GALLON	LOW	24
CHO TEC	CHORONDOPETALUM TECTORUM	CAPE RUSH	5 GALLON	LOW	38
CIS 'PRO'	CISTUS S. 'PROSTRATUS'	SAGELEAF ROCKROSE	1 GALLON	LOW	231
DIE BIC	DIETES BICOLOR	FORTNIGHT LILY	1 GALLON	LOW	104
FRA CAL	FRANGULA CALIFORNICA	CALIFORNIA COFFEEBERRY	5 GALLON	LOW	2
GAU LIN	GAURA LINDHEIMERI	LINDHEIMER'S BEEBLOSSOM	1 GALLON	LOW	88
HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	5 GALLON	LOW	73
HES 'PER'	HESPERALOE P. 'PERPA'	BRAKELIGHTS RED YUCCA	1 GALLON	LOW	219
KNI 'P.P.'	KNIPHOFIA 'PINEAPPLE POPSICLE'	RED HOT POCKER	1 GALLON	LOW	213
LAV MAR	LAVATERA MARITIMA	TREE MALLOW	5 GALLON	LOW	99
LOM 'BRE'	LOMANDRA L. 'BREEZE'	DWARF MAT RUSH	1 GALLON	LOW	214
LOR 'E.S.'	LOROPETALUM 'EMERALD SNOW'	CHINESE FRINGE FLOWER	5 GALLON	LOW	94
MOR CAL	MORELLA CALIFORNICA	CALIFORNIA WAX MYRTLE	1 GALLON	LOW	20
MUH RIG	MUHLENBERGIA RIGENS	DEER GRASS	5 GALLON	LOW	13
OLE 'L.O.'	OLEA E. 'LITTLE OLLIE'	DWARF OLIVE	5 GALLON	LOW	186
PHO 'M.M.'	PHORMIUM T. 'MAORI MAIDEN'	NEW ZEALAND FLAX	5 GALLON	LOW	9
POL MUN	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GALLON	LOW	18
PRU 'BBT'	PRUNUS 'BRIGHT & TIGHT'	BRIGHT & TIGHT LAUREL	5 GALLON	LOW	78
TEU CHA	TEUCHRIUM CHAMAEDRYS	GERMANDER	1 GALLON	LOW	116
XYL 'COM'	XYLOSMA C. 'COMPACTA'	COMPACT XYLOSMA	5 GALLON	LOW	72
VINES					
LON HIS	LONICERA HISPIDULA	HAIRY HONEYSUCKLE	5 GALLON	LOW	6
SHRUBS - BIO-RETENTION					
BUD 'DWF'	BUDDLEJA 'DWARF VARIETIES'	DWARF BUTTERFLY BUSH	1 GALLON	LOW	15
CAR DIP	CAREX DIPSACEA	AUTUMN SEDGE	1 GALLON	LOW	175
JUN PAT	JUNCUS PATENS	CALIFORNIA RUSH	1 GALLON	LOW	210

SUMMARY DATA TABLE:

LANDSCAPE AREA	QUANTITY	%
TOTAL SITE AREA	99,150	100%
TOTAL LANDSCAPED AREA	18,466	18.6%
AREA OF 15' SETBACK AT MERRYDALE RD.	3,848	100%
LANDSCAPED AREA WITHIN SETBACK	2,093	55%
PROPOSED PLANTING		
TOTAL TREES	55	100%
24" BOX TREES	31	56%
15 GALLON TREES	24	44%
TOTAL SHRUBS	2,651	100%
5 GALLON	1,180	60%
1 GALLON	1,771	40%
PROPOSED AMENTITIES		
POLE LIGHTS	9	
LIGHT BOLLARDS	58	

NOTES:

1. ALL TREES SHALL BE PLANTED AND STAKED PER CITY STANDARDS.
2. TREES BE PLANTED WITHIN 3' OF HARDSCAPE ELEMENTS, SHALL HAVE A LINEAR ROOT BARRIER INSTALLED ADJACENT TO THE HARDSCAPE ELEMENT AT TIME OF TREE PLANTING.
3. LANDSCAPE AND IRRIGATION SHALL COMPLY WITH CITY'S CURRENT WATER-EFFICIENT LANDSCAPE ORDINANCE.
4. ALL PLANTING AREAS SHALL BE AUTOMATICALLY IRRIGATED PER CITY STANDARDS. USING LOW-FLOW SPRAY, BUBBLERS OR DRIP METHODS.
5. ALL PLANTING AREAS SHALL BE MULCHED TO A MINIMUM DEPTH OF 3".



EXISTING PAVING EDGE (DOUBLE DASHED LINE)
PATH LIGHT BOLLARDS, TYPICAL
REINFORCED PAVING FOR CRANE
PERMEABLE PAVING PER CIVIL, TYPICAL
ACTIVITIES IMPRINTED ON "BOARDWALK" PAVING
BENCH (REMOVABLE)
25' CREEK SETBACK (DASHED LINE)
EXISTING RIPRAP - TO BE PRESERVED
HORIZONTAL RAIL & MESH FENCE W/ 10' WIDE REMOVABLE PANELS, SEE DETAIL SHEET L5
ACCESS ROAD PLAZA: PERMEABLE PAVERS W/ BOARDWALK PATTERN, REMOVABLE BENCH SEATING, LANDSCAPE/ SEAT BOULDERS & PLANTING AREAS
REMOVABLE BOLLARDS AT BOARDWALK ENTRY, TYPICAL
EXISTING TREE TO REMAIN, TYPICAL
REINFORCED PAVING FOR CRANE
RAIL FENCE, TYPICAL
PERMEABLE PAVING PER CIVIL, TYPICAL
REINFORCED PAVING FOR TRUCK
BIKE LOOPS, TYPICAL- SEE DETAIL, SHEET L5
PROPOSED TREE, TYPICAL
COMMUNITY PATIO: PERMA TRAK DECKING SEE DETAIL, SHEET L4
COMMUNITY BBQ
POLE LIGHT (12' HEIGHT), TYPICAL
GROUP MAILBOX AREA - SEE DETAIL, SHEET L5
AC UNIT SCREEN- SEE DETAIL D, SHEET L5
4'-0" CONCRETE WALK W/ SCORE LINES, TYPICAL
ENHANCED PAVING AT ENTRY
ENHANCED PAVING AT ENTRY & CROSSWALKS, TYPICAL
EXISTING SCRUBS TO REMAIN
FRONTAGE HOME COURTYARDS: LOW WALL W/ GATE, & PRIVATE PATIO
EXISTING ORNAMENTAL TREES TO REMAIN
BIKE LOOPS, TYPICAL- SEE DETAIL, SHEET L5
PASEO: CONCRETE WALK, PLANTING, & SEATING AREA
PERMA TRAK DECKING OVER BIO FILTER AREA

350 Merrydale Rd

San Rafael, California

RIPLEY DESIGN GROUP
LANDSCAPE ARCHITECTURE
LAND PLANNING
1615 BONANZA STREET
SUITE 314
WALNUT CREEK, CA 94596
TEL: 925.938.7377
FAX: 925.9387436

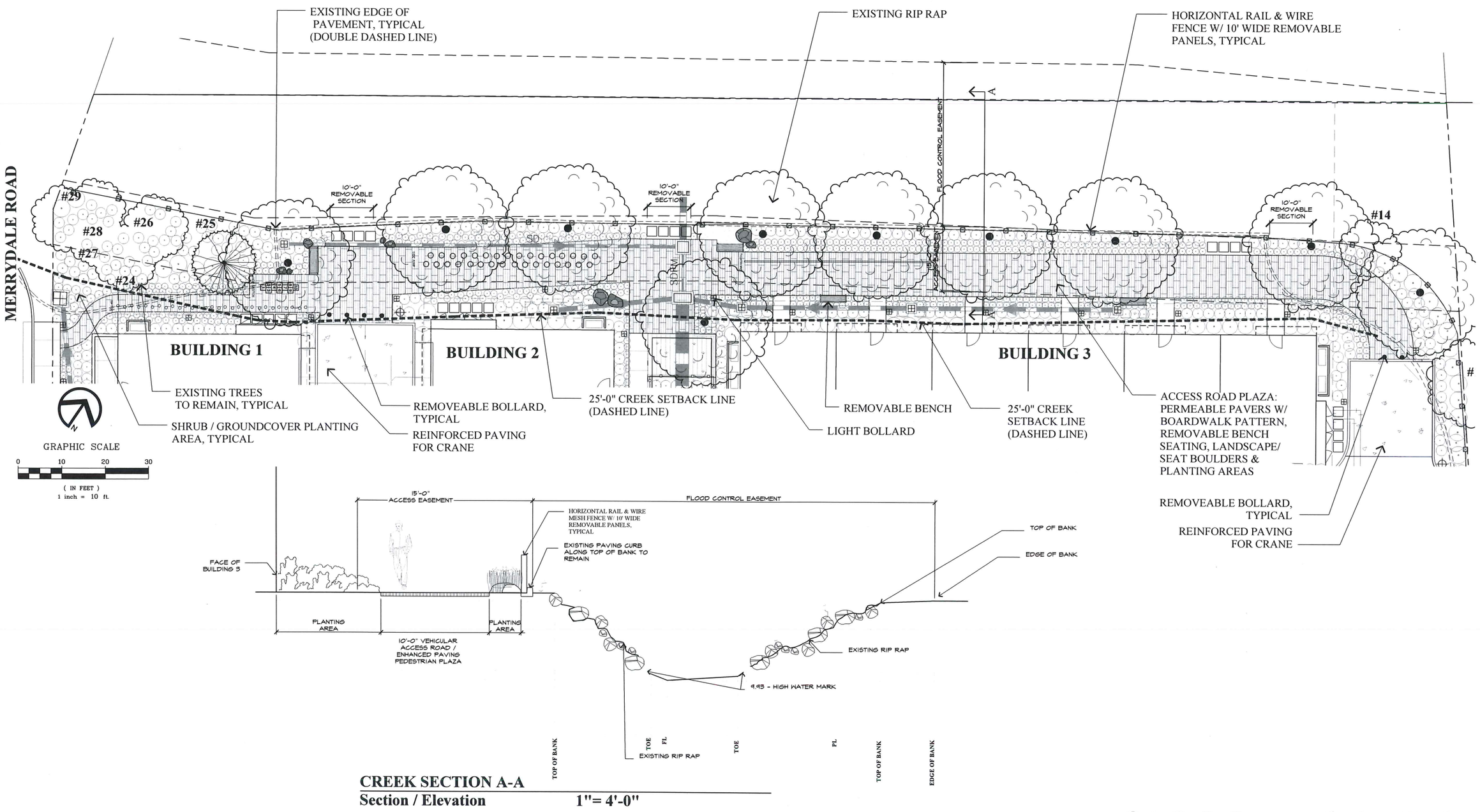
GRAPHIC SCALE
0 20 40 60
(IN FEET)
1 inch = 20 ft.

CAMPUS PROPERTY GROUP

Landscape & Lighting Plan

OCTOBER, 2019

L1



CREEK SECTION A-A
Section / Elevation **1"= 4'-0"**

350 Merrydale Rd

San Rafael, California

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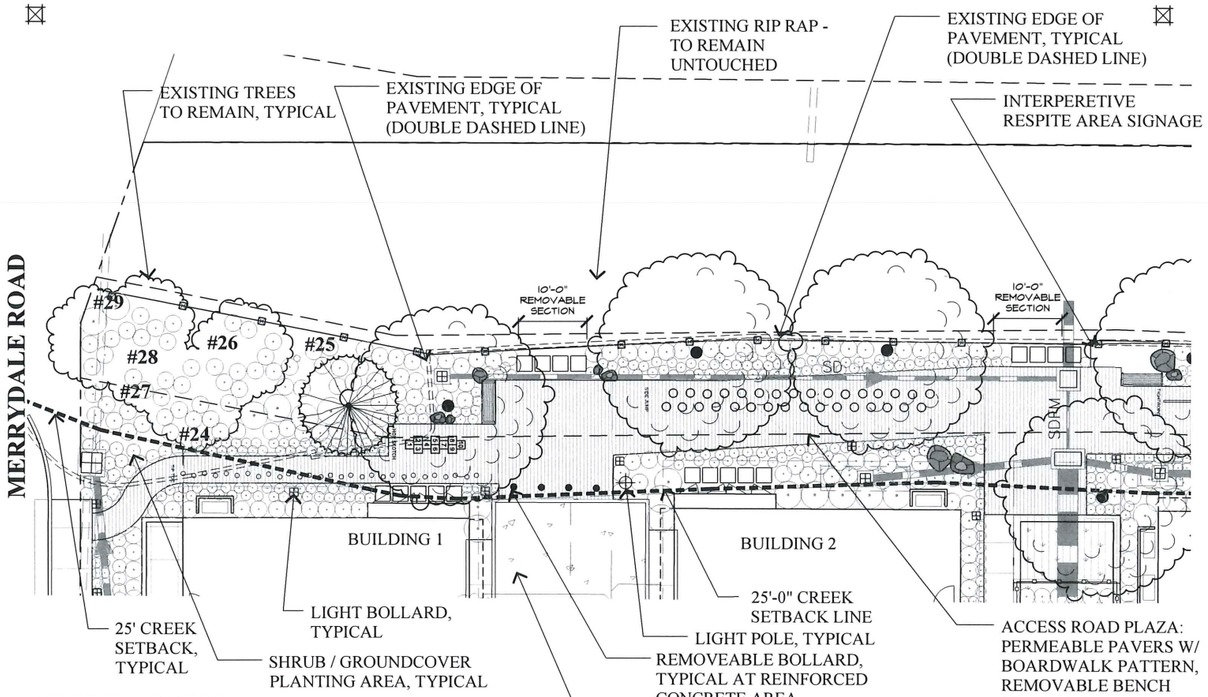
CAMPUS PROPERTY GROUP

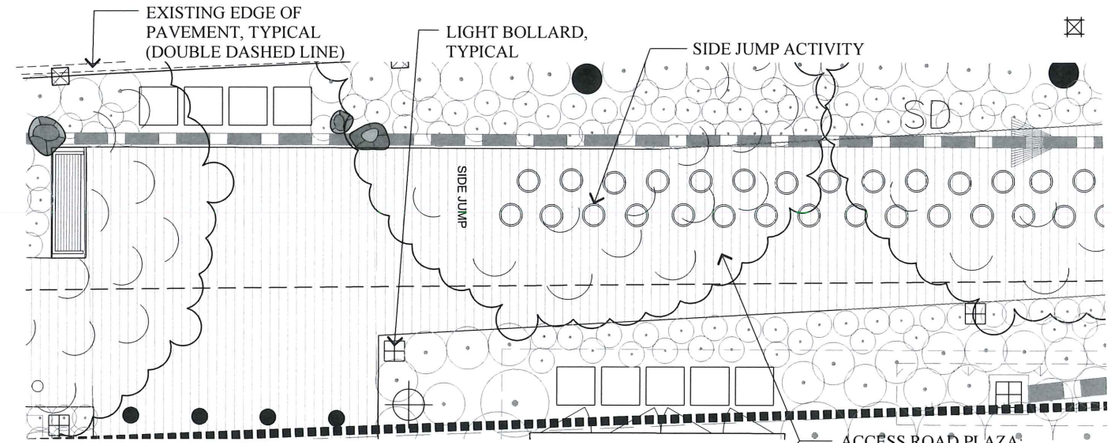
Preliminary Landscape Plan
Creek Enlargement

OCTOBER, 2019

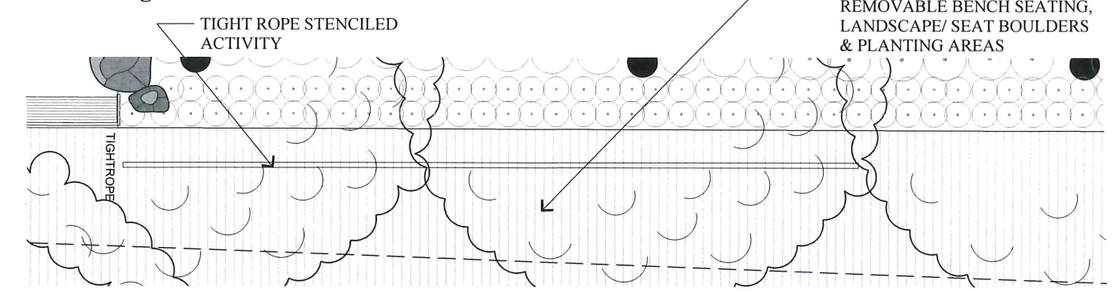
L2



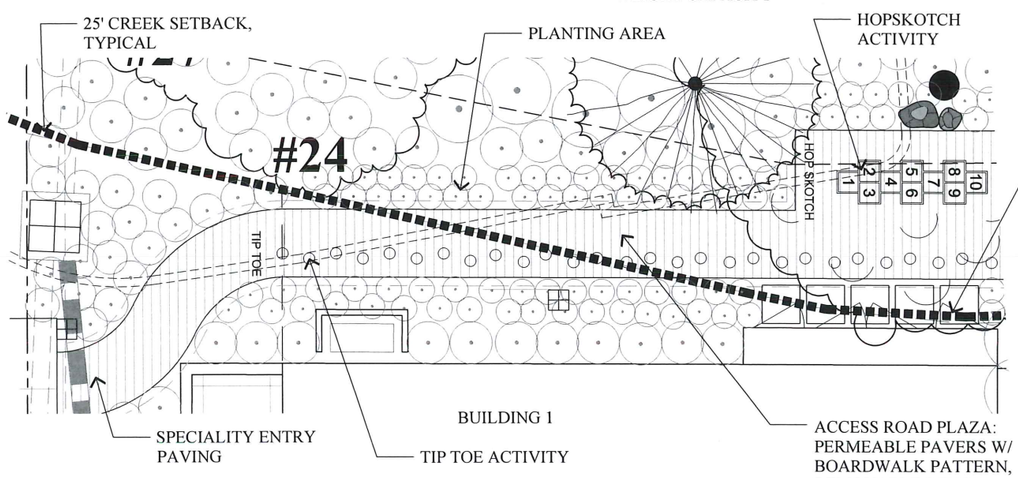
CREEK ACCESS
Plan Enlargement
SCALE: 1"=10'



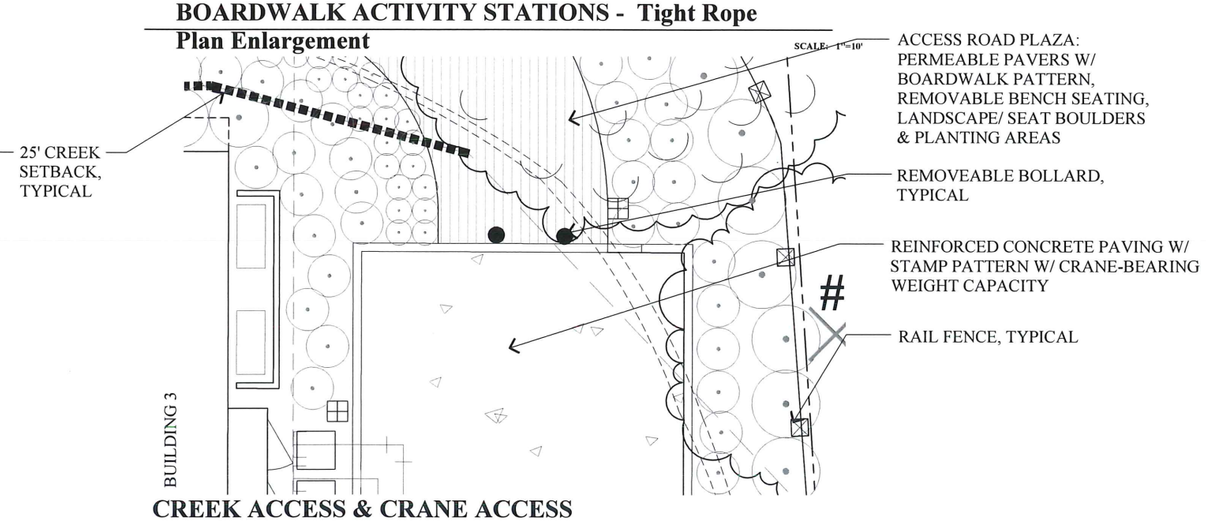
BOARDWALK ACTIVITY STATIONS - Side Jump
Plan Enlargement
SCALE: 1"=10'



BOARDWALK ACTIVITY STATIONS - Tight Rope
Plan Enlargement
SCALE: 1"=10'



BOARDWALK ACTIVITY STATIONS - Hopskotch & Tip Toe
Plan Enlargement
SCALE: 1"=10'



CREEK ACCESS & CRANE ACCESS
Plan Enlargement
SCALE: 1"=10'

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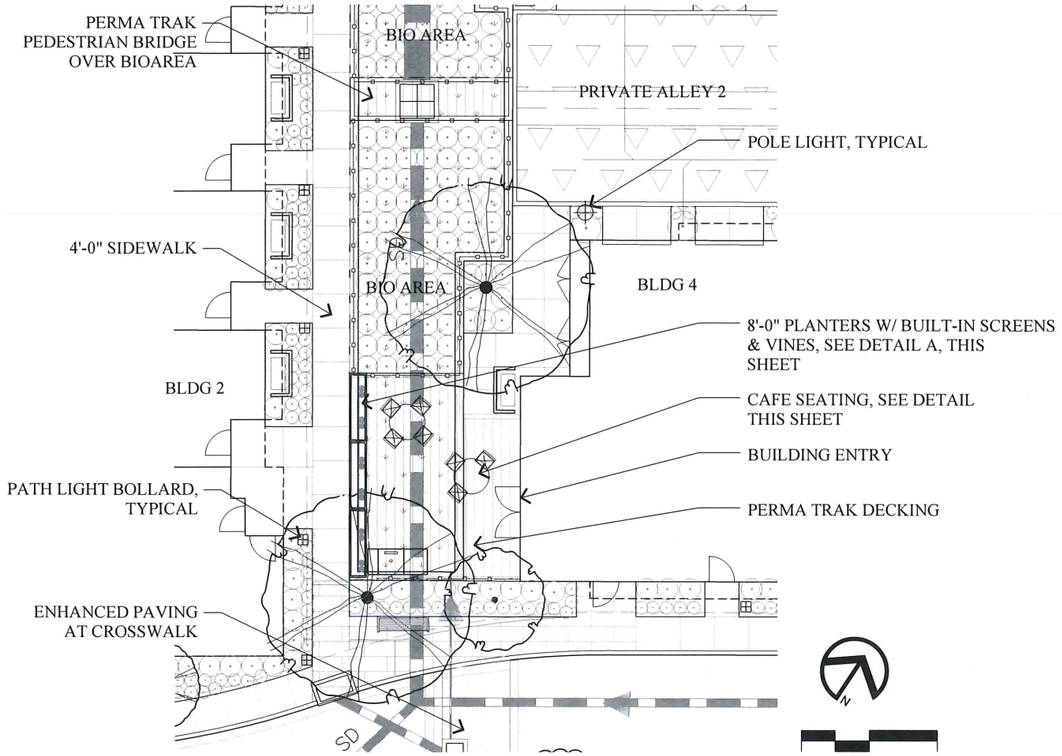
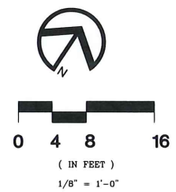
CAMPUS PROPERTY GROUP

Preliminary Landscape Plan
Creek Access & Boardwalk Enlargement

OCTOBER, 2019

L3



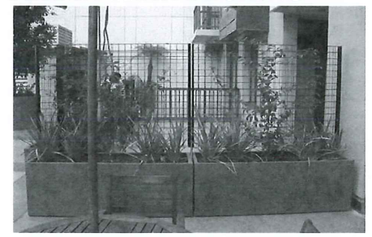


COMMUNITY PATIO
Plan Enlargement

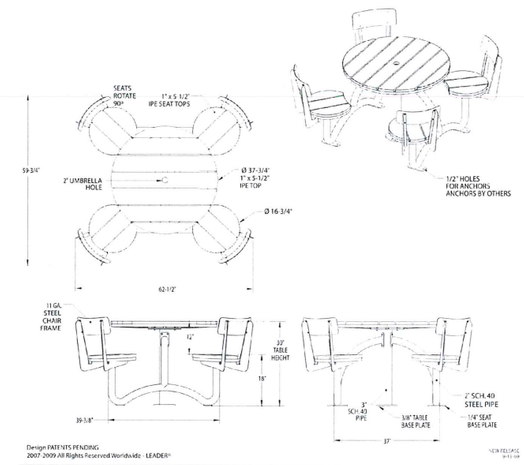
SCALE: 1"=10'

TOURNESOL TABLE W/ IPE TOPS

PERMA TRAK DECKING



TOURNESOL WILSHIRE SCREEN



SPECIFICATIONS

MATERIAL
The table and seats are fabricated with 11 gauge welded steel framework. The center post is 3" sch. 40 pipe welded to a 3/8" steel base plate. The seat frames are bolted to a 2" sch. 40 seat support system which is bolted to the center post. The table and seat tops shall be fabricated with 1" x 5-1/2" ipe. All parts are drilled and precisely formed for quick assembly. Flat steel shall conform to ASTM A36 hot rolled steel. Pipe shall conform to ASTM A53. All steel shall be wheelabrated prior to fabrication.

HARDWARE
Fasteners shall be stainless steel bolts, nuts and washers
Anchor bolts by others

PROTECTIVE COATINGS
Wood: clear wood preservative
Powder Coating: Following fabrication, all metal shall be cleaned and treated with an iron phosphate process prior to the coating application. This process shall include a non-chromated alkaline cleaner and an iron phosphate treatment followed with an acidic sealer for maximum adhesion. The protective coatings shall be either polyester or polyester TGIC powder. Following application the parts shall be baked until properly cured. The coating shall be a minimum of 4 mils thick on all surfaces.

OPTIONS
Table and seat tops:
Metal: Perforated steel
Wood: 1" x 5-1/2" ipe, 1" x 7-1/4" Tigerwood, OVG Douglas-fir or western red cedar
Recycled plastic: 1-1/2" x 5-1/2"
ADA handicapped access (3 seats)

Model F-9 Picnic Table, with Ipe Tops

FairWeather Site Furnishings
360-895-2626 or Toll Free 800-323-1798
Port Orchard, Washington
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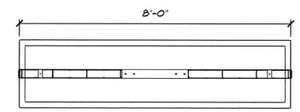
FairWeather Site Furnishings ®

EXISTING TREE LEGEND

* REFER TO TREES INVENTORY

TREE #	DATE	LOCATION	SPECIES	COMMON NAME	CANOPY HEIGHT	COND.	DECA	DEFECTS	COMMENTS LOC.
1	11/21/2018	ENTRANCE GATE AT DRAINAGE CANAL	PINUS MURICATA	BISHOP PINE	17.340	GOOD	N/A	NONE	THIN CANOPY, CALIF. NATIVE
2	1/21/2018	ENTRANCE GATE AT DRAINAGE CANAL	PINUS MURICATA	BISHOP PINE	13.540	FAIR	N/A	NONE	THIN CANOPY CALIF. NATIVE
	1/21/2018	ENTRANCE GATE AT DRAINAGE CANAL	QUERCUS	COAST LIVE OAK	11	GOOD	N/A	NONE	MULTI STEM YOUNG TREE CALIF. NATIVE
3	1/21/2018	ENTRANCE GATE AT DRAINAGE CANAL	QUERCUS	COAST LIVE OAK	3.113	POOR	N/A	NONE	SINGLE TRUNK TREE CALIF. NATIVE - DEAD - TO BE REMOVED
4	1/21/2018	ALONG DRAINAGE CANAL E. PROPERTY	PINUS MURICATA	BISHOP PINE	10.740	POOR	N/A		PITCH FLOW & PINE BORERS BROWNING NEEDLES THROUGHOUT CANOPY REMOVE
5	1/21/2018	ARBOR AT SIDEWALK. & BUILDING	JUNIPER OCCIDENTALIS	WESTERN JUNIPER	13.450	FAIR	N/A		STRUCTURE CONFLICT IMPACT CONFLICT BY BUILDING ARBOR & TRUNK REMOVAL NECESSARY
6	1/21/2018	EAST PARKING LOT PLANTER BED	QUERCUS	COAST LIVE OAK	6+2.1+2+2+245	GOOD	N/A	NONE	MULTI STEM TREE CALIF. NATIVE
7	1/21/2018	EAST PARKING LOT PLANTER BED	SEQUOIA	COASTAL REDWOOD	12.548	GOOD	N/A	NONE	CALIF. NATIVE TREE
8	1/21/2018	EAST PARKING LOT PLANTER BED	SEQUOIA	COASTAL REDWOOD	11.245	GOOD	N/A	NONE	CALIF. NATIVE TREE
9	1/21/2018	EAST PARKING LOT PLANTER BED	QUERCUS	COAST LIVE OAK	2.5+322	GOOD	N/A	NONE	2 STEMS, CALIF NATIVE
10	1/21/2018	EAST PARKING LOT PLANTER BED	SEQUOIA	COASTAL REDWOOD	13.345	GOOD	N/A	NONE	CALIF. NATIVE TREE
11	1/21/2018	EAST PARKING LOT PLANTER BED	SEQUOIA	COASTAL REDWOOD	3.56	GOOD	N/A	NONE	CALIF. NATIVE TREE
12	1/21/2018	N.E. CORNER AT DRAINAGE CANAL	QUERCUS	WHITE OAK	16.367	GOOD	N/A		STRESSED DECIDUOUS CALIF. NATIVE TREE
13	1/21/2018	PLANTER BED PARKING LOT	SEQUOIA	COASTAL REDWOOD	18.2+18.780	GOOD	N/A	NONE	DOUBLE STEM, CALIF. NATIVE TREE
14	1/21/2018	N.E. CORNER AT DRAINAGE CANAL	SEQUOIA	COASTAL REDWOOD	24.755	GOOD	N/A	NONE	SINGLE STEM TREE CALIF. NATIVE
15	1/21/2018	N.E. CORNER AT DRAINAGE CANAL	LIQUID AMBER	SWEETGUM	5.840	OK	N/A	NONE	INVASIVE ROOTS REMOVE TO ALLOW FOR REDWOOD DEVELOPMENT
16	1/21/2018	N.E. CORNER AT DRAINAGE CANAL	LIQUID AMBER	SWEETGUM	840	OK	N/A	NONE	INVASIVE ROOTS REMOVE TO ALLOW FOR REDWOOD DEVELOPMENT
17	1/21/2018	MID PARKING LOT NORTH PLANTER	UNKNOWN TREE DECIDUOUS		6.7+5.5+5.730	OK	N/A	NONE	MULTI STEM AT 3 FT. DBH
18	1/21/2018	MID PARKING LOT NORTH PLANTER	UNKNOWN TREE DECIDUOUS		8.525	OK	N/A	NONE	2 MAIN STEMS
19	1/21/2018	MID PARKING LOT NORTH PLANTER	UNKNOWN TREE DECIDUOUS		6+427	OK	N/A	NONE	2 MAIN STEMS FR. BASE OF TREE
20	1/21/2018	MID PARKING LOT NORTH PLANTER	UNKNOWN TREE DECIDUOUS		4+8.525	OK	N/A	NONE	
21	1/21/2018	PARKING LOT MERRYDALE RD.	SEQUOIA	COASTAL REDWOOD	23+1698	GOOD	N/A	NONE	2 COMPACTED STEMS TO BE REMOVED (5" & 6" DIA). TO ALLOW FOR MAIN TRUNKS DEVELOPMENT
22	1/21/2018	PARKING LOT MERRYDALE RD.	SEQUOIA	COASTAL REDWOOD	21.5+9.498	GOOD	N/A	NONE	2 TRUNKS FR. BASE CALIF. NATIVE TREE
23	1/21/2018	PARKING LOT MERRYDALE RD.	SEQUOIA	COASTAL REDWOOD	25.598	GOOD	N/A	NONE	SINGLE STEM TREE CALIF. NATIVE
24	1/21/2018	BEFORE MERRYDALE RD. BRIDGE	SEQUOIA	COASTAL REDWOOD	12.8,5,16.7,9.898-100	GOOD	N/A	NONE	CALIF. NATIVE TREES, GROUP MAY BE ALL ONE TREE CONNECTED ROOT SYSTEM.
25	1/21/2018	BEFORE MERRYDALE RD. BRIDGE	SEQUOIA	COASTAL REDWOOD	22.898	GOOD	N/A	NONE	CALIF. NATIVE TREE.
26	1/21/2018	BEFORE MERRYDALE RD. BRIDGE	SEQUOIA	COAST REDWOOD	2498	GOOD	N/A	NONE	CALIF. NATIVE TREE.
27	1/21/2018	BEFORE MERRYDALE RD. BRIDGE	SEQUOIA	COASTAL REDWOOD	2198	GOOD	N/A	NONE	CALIF. NATIVE TREE.
28	1/21/2018	BEFORE MERRYDALE RD. BRIDGE	SEQUOIA	COASTAL REDWOOD	1898	GOOD	N/A	NONE	CALIF. NATIVE TREE.
29	1/21/2018	BEFORE MERRYDALE RD. BRIDGE	SEQUOIA	COASTAL REDWOOD	24.898	GOOD	N/A	NONE	CALIF. NATIVE TREE.
30	1/21/2018	BETWEEN BUILDING SIDEWALK	ACER	MAPLE	912	FAIR-STRESSED		NONE	TREE IS IN PLANTER STRIP WITH TALL HEDGE DIVIDING SIDEWALK AND MERRYDALE RD. TREES ARE INSIGNIFICANT.
31	1/21/2018	BETWEEN BUILDING SIDEWALK	ACER	MAPLE	512	POOR-STRESSED		NONE	TREE IS IN PLANTER STRIP WITH TALL HEDGE DIVIDING SIDEWALK AND MERRYDALE RD. TREES ARE INSIGNIFICANT.
32	1/21/2018	BETWEEN BUILDING SIDEWALK	ACER	MAPLE	5	FAIR		NONE	TREE IS IN PLANTER STRIP WITH TALL HEDGE DIVIDING SIDEWALK AND MERRYDALE RD. TREES ARE INSIGNIFICANT.
33	1/21/2018	BETWEEN BUILDING SIDEWALK	PRUNUS FLOWER	ORNAMENTAL CHERRY	11, 10.58	FAIR/POOR-STRESSED			CONDITION LIMITED SPACENONE TREE IS OUT GROWN LIMITED SPACE.
34	1/21/2018	BETWEEN BUILDING SIDEWALK	PRUNUS FLOWER	ORNAMENTAL CHERRY	2424	FAIR/POOR-STRESSED			CONDITION LIMITED SPACENONEBUCKLING SIDEWALK CONFLICT WITH UTILITY POLE
35	1/21/2018	FRONT SIDE YARD	PYRUS	FLOWERINGPEAR	2035	FAIR		NONE	PRUNING MAINTENANCE NECESSARY REMOVE BROKEN BRANCHES.
36	1/21/2018	TO NEIGHBORING ELECTRIC SHOP	PYRUS	FLOWERING PEAR	1525	FAIR			CONFLICT WITH CHAIN LINK FENCE. REMOVE TO ELIMINATE CONFLICT
38	6/7/2019	SOUTH PROPERTY LINE	PRUNUS	ORNAMENTAL PEAR	4.4,4,1.5"	20 FT.GOODCONFLICT FENCE WALKWY. DEADWOODREMOVE DEADWOOD			
39	6/7/2019	SOUTH PROPERTY LINE	PRUNUS	ORNAMENTAL PEAR	5.8,2.5"	15 FT.FAIRLOWER DEADWOODCONFINED SPACE			
40	6/7/2019	SOUTH PROPERTY LINE	PRUNUS	ORNAMENTAL PEAR					
42	6/7/2019	SOUTH PROPERTY LINE	LINDEN		17.5"	45 FT. GOODN/AGOODPRUNE DEADWOOD			
43	6/7/2019	SOUTH PROPERTY LINE	LIGUSTRUM	PRIVET	4.5,5"	30 FTFAIRCONFLICT PUSHING PROPERTY LINE FENCE			
44	6/7/2019	SOUTH PROPERTY LINE	PISTACIA	CHINESE PISTACHE	15 "	25 FTVERY POORTRUNK CANOPYDIEBACK SEVEREBEST REMOVED			
45	6/7/2019	SOUTH PROPERTY LINE	POPULUS	EUROPEAN POPLAR	19"	35 FT.FAIRWOUND SCAR WEST SIDE TRUNK & LIMBWOUND HEALINGMIS LABELED MAPLE TREE PRUNING FOR DEADWOOD			



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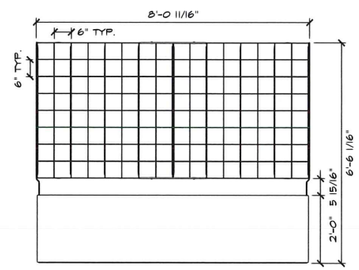
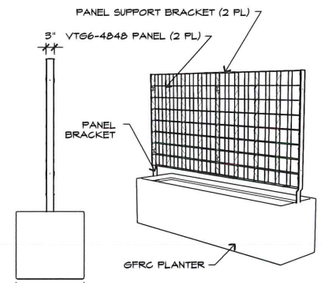




NOTE: UNLESS OTHERWISE SPECIFIED

1. PLANTER MATERIAL: GLASS FIBER REINFORCED CONCRETE (GFRC)
2. PANEL MATERIAL: POWDER COATED WELDED STEEL WIRE
3. ALL DIMENSIONS ARE NOMINAL, ACTUAL SIZE MAY VARY

WILSHIRE SCREEN PLANTERS INSTALLED IN AREAS THAT EXPERIENCE WIND GUSTS OVER 40 MPH MUST BE ANCHORED TO PREVENT TIPPING. SEE TOURNESOL SITEWORKS' PLANTER ANCHORING GUIDELINES FOR RECOMMENDATIONS.

A **WILSHIRE SCREEN BY TOURNESOL SITEWORKS** SCALE: 1/2" = 1'-0"

024 - PrcRvr

350 Merrydale Rd

San Rafael, California

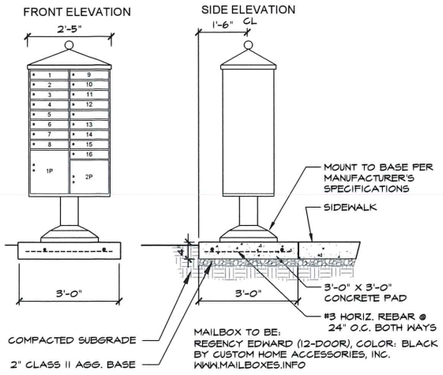
OCTOBER, 2019

L4

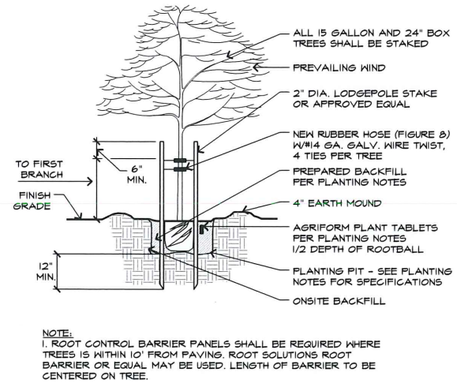
RIPLEY DESIGN GROUP
LANDSCAPE ARCHITECTURE
LAND PLANNING
1615 BONANZA STREET
SUITE 314
WALNUT CREEK, CA 94596
TEL: 925.938.7377
FAX: 925.9387436

CAMPUS PROPERTY GROUP

Preliminary Landscape Plans
Patio Enlargement & Tree Inventory



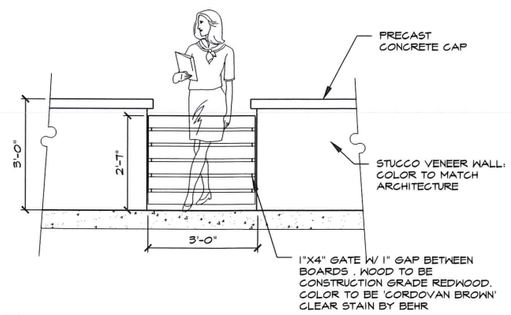
A **COMMUNITY MAILBOXES**



NOTE:
1. ROOT CONTROL BARRIER PANELS SHALL BE REQUIRED WHERE TREES IS WITHIN 10' FROM PAVING. ROOT SOLUTIONS ROOT BARRIER OR EQUAL MAY BE USED. LENGTH OF BARRIER TO BE CENTERED ON TREE.

B **TREE PLANTING AND STAKING DETAIL** SCALE : 1/2" = 1'-0"

024 - TreeSKPdtg



C **LOW WALLS W/ GATE (FRONTAGE UNITS)** SCALE: 1/2" = 1'-0"

024 -

3Rs Merrydale Photometric Data

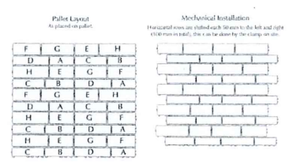
Luminaire Schedule:

Quantity - 6, Label A, Arrangement - Single, Lumens 4308, LLF 0.807, LDD 0.900, LLD 0.944, UDF 0.950, Sterberg SL660-12L30T2-MDL018-CA-BLOC-12'L.C., LUM WATTS 59.5

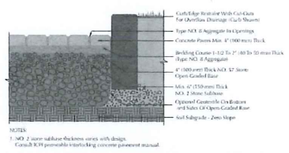
Quantity 2, Label A1, Arrangement Single, Lumens 4569, LLF 0.807, LDD 0.900, LLD 0.944, UDF 0.950, Sternberg SL660-12L30T3-MDL018-CA-BLOC-12'L.C., LUM WATTSS9.5

Quantity 10, Label B, Arrangement Single, Lumens 2118, LLF 0.697, LDD 0.900, LLD 0.944, UDF 0.820, Sternberg BL-3-SL360-FG-26L27T3-F-MDL03-2.75' L.C., LUM. WATTS 31.3

Quantity 22, Label B1, Arrangement Single, Lumens 2134, LLF 0.697, LDD 0.900, LLD 0.944, UDF 0.820, Sternberg BL-3-SL360-FG-26L27T2-F-MDL03-2.75', LUM 31.3

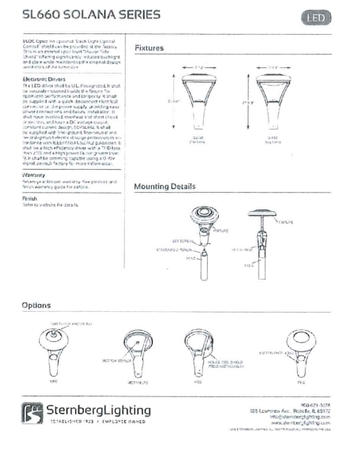


PERMEABLE PAVEMENT WITH FULL EXFILTRATION TO SOIL SUBGRADE



BASALITE PERMEABLE PLANK PAVER AT "BOARDWALK"

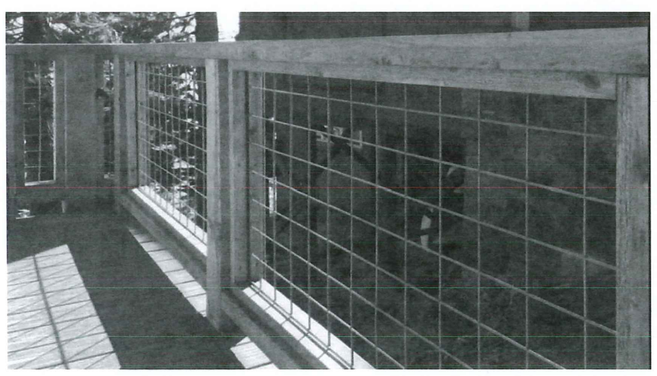
ENHANCED PAVING AT CROSSWALKS COLORED / STAMPED CONCRETE



SOLANA POLE LIGHT & LIGHTED BOLLARD

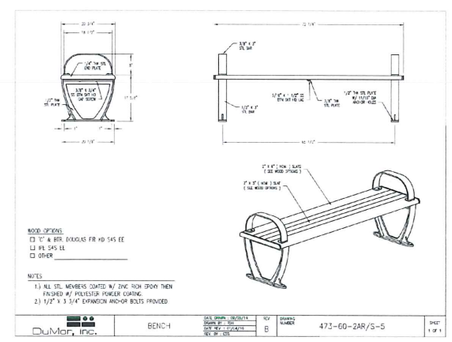
DAYTIME

NIGHTTIME



CREEK FENCE

BIKE RACK



REMOVABLE BENCH

350 Merrydale Rd

San Rafael, California

OCTOBER, 2019

L5

RIPLEY DESIGN GROUP
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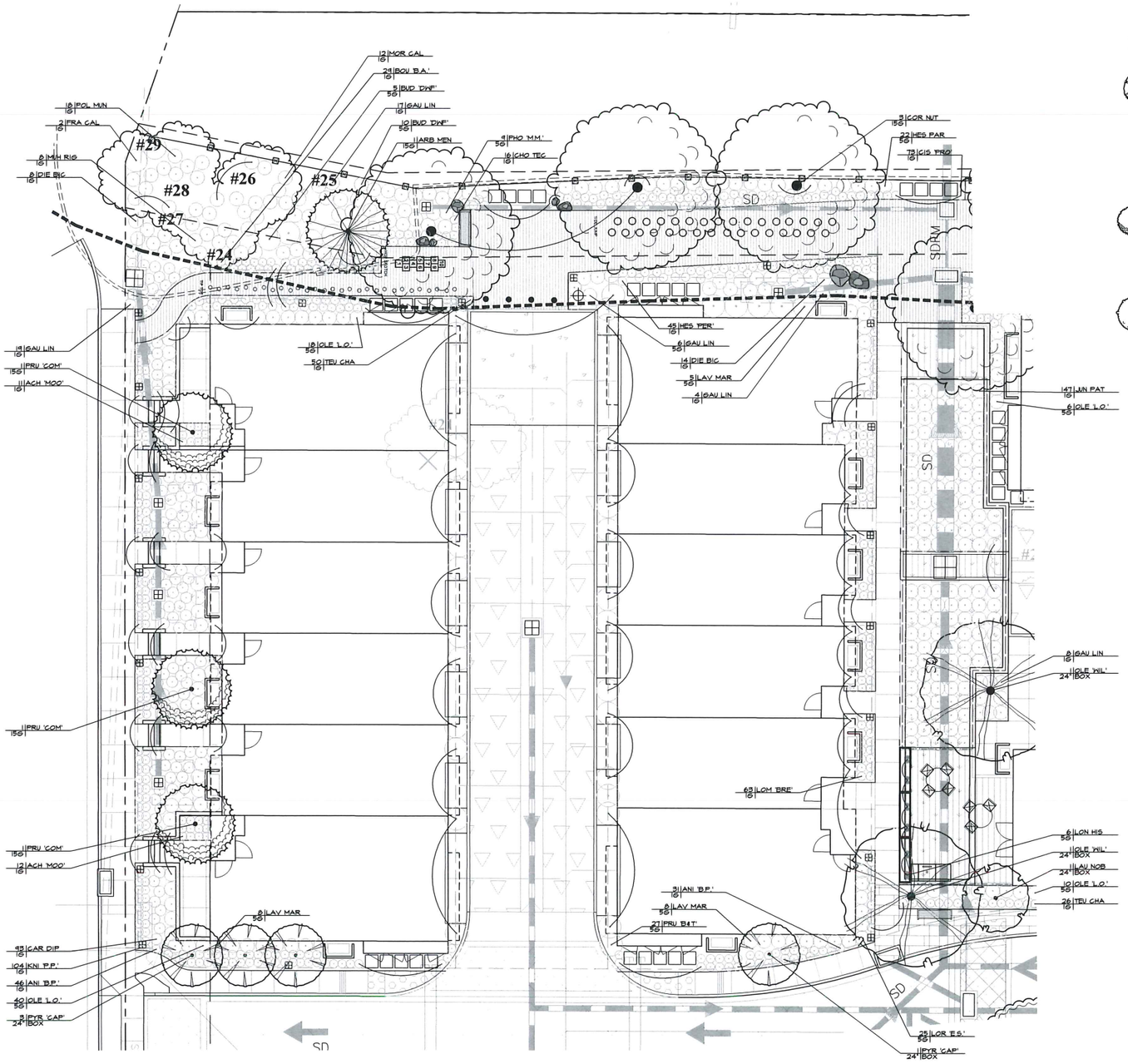
CAMPUS PROPERTY GROUP

Preliminary Landscape Details



PRELIMINARY PROPOSED PLANT PALETTE

#XX **EXISTING TREE TO REMAIN**
XXX

#XX **EXISTING TREE TO BE REMOVED**
#XXX

SPECIMEN TREES					
OLEA 'WILSONII'	WILSON OLIVE	24" BOX	25' WIDE/25' HIGH	LOW	3
TRISTANIA CONFERTA	BRISBANE BOX	24" BOX	25' WIDE/30-40' HIGH	LOW-MEDIUM	5
ACCENT TREES					
PYRUS C. 'CAPITAL'	CAPITAL PEAR	24" BOX	12' WIDE/25' HIGH	LOW	7
EVERGREEN TREES					
ARBUTUS MARINA	STRAWBERRY TREE	24" BOX	20' WIDE/30' HIGH	LOW	6
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LAURUS NOBILIS	SWEET BAY	24" BOX	15' WIDE/15' HIGH	LOW	10
BOARDWALK TREES					
ARBUTUS MENZIESII	MADRONE	15 GALLON	30' WIDE/30' HIGH	LOW	1
CORNUS NUTTALII	PACIFIC DOGWOOD	15 GALLON	15' WIDE/15' HIGH	LOW	10

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	QUANTITIES
SHRUBS					
ACH 'MOO'	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	1 GALLON	LOW	58
ANI 'B.P.'	ANIGOZANTHOS 'BUSH PEARL'	DWARF KANGAROO PAW	1 GALLON	LOW	238
BOU 'B.A.'	BOUTALOUA G. 'BLONDE AMBITION'	BLUE GRAMA GRASS	1 GALLON	LOW	144
BUD 'DWF'	BUDDLEJA D. 'DWARF VARIETY'	DWARF BUTTERFLY BUSH	5 GALLON	LOW	24
CHO TEC	CHORONDOPETALUM TECTORUM	CAPE RUSH	5 GALLON	LOW	38
CIS 'PRO'	CISTUS S. 'PROSTRATUS'	SAGELEAF ROCKROSE	1 GALLON	LOW	231
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FRA CAL	FRANGULA CALIFORNICA	CALIFORNIA COFFEEBERRY	5 GALLON	LOW	2
GAU LIN	GAURA LINDHEIMERI	LINDHEIMER'S BEEBLOSSOM	1 GALLON	LOW	88
HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	5 GALLON	LOW	73
HES 'PER'	HESPERALOE P. 'PERPA'	BRAKELIGHTS RED YUCCA	1 GALLON	LOW	219
KNI 'P.P.'	KNIPHOFIA 'PINEAPPLE POPSICLE'	RED HOT POCKER	1 GALLON	LOW	213
LAV MAR	LAVATERA MARITIMA	TREE MALLOW	5 GALLON	LOW	99
LOM 'BRE'	LOMANDRA L. 'BREEZE'	DWARF MAT RUSH	1 GALLON	LOW	214
LOR 'E.S.'	LORDPETALUM 'EMERALD SNOW'	CHINESE FRINGE FLOWER	5 GALLON	LOW	94
MOR CAL	MORELLA CALIFORNICA	CALIFORNIA WAX MYRTLE	1 GALLON	LOW	20
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OLE 'L.O.'	OLEA E. 'LITTLE OLLIE'	DWARF OLIVE	5 GALLON	LOW	186
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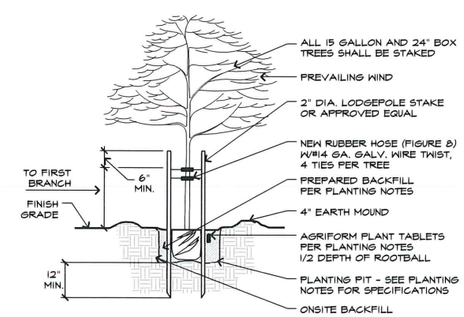

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A **TREE PLANTING AND STAKING DETAIL** SCALE : 1/2" = 1'-0"
024 - TreeSKPkg

PLANT CALLOUT SYMBOL KEY

PLANT QTY	PLANT SYMBOL
SIZE	UNITS

350 Merrydale Rd

RIPLEY DESIGN GROUP

LANDSCAPE ARCHITECTURE
LAND PLANNING
1615 BONANZA STREET
SUITE 314
WALNUT CREEK, CA 94596
TEL: 925.938.7377
FAX: 925.9387436

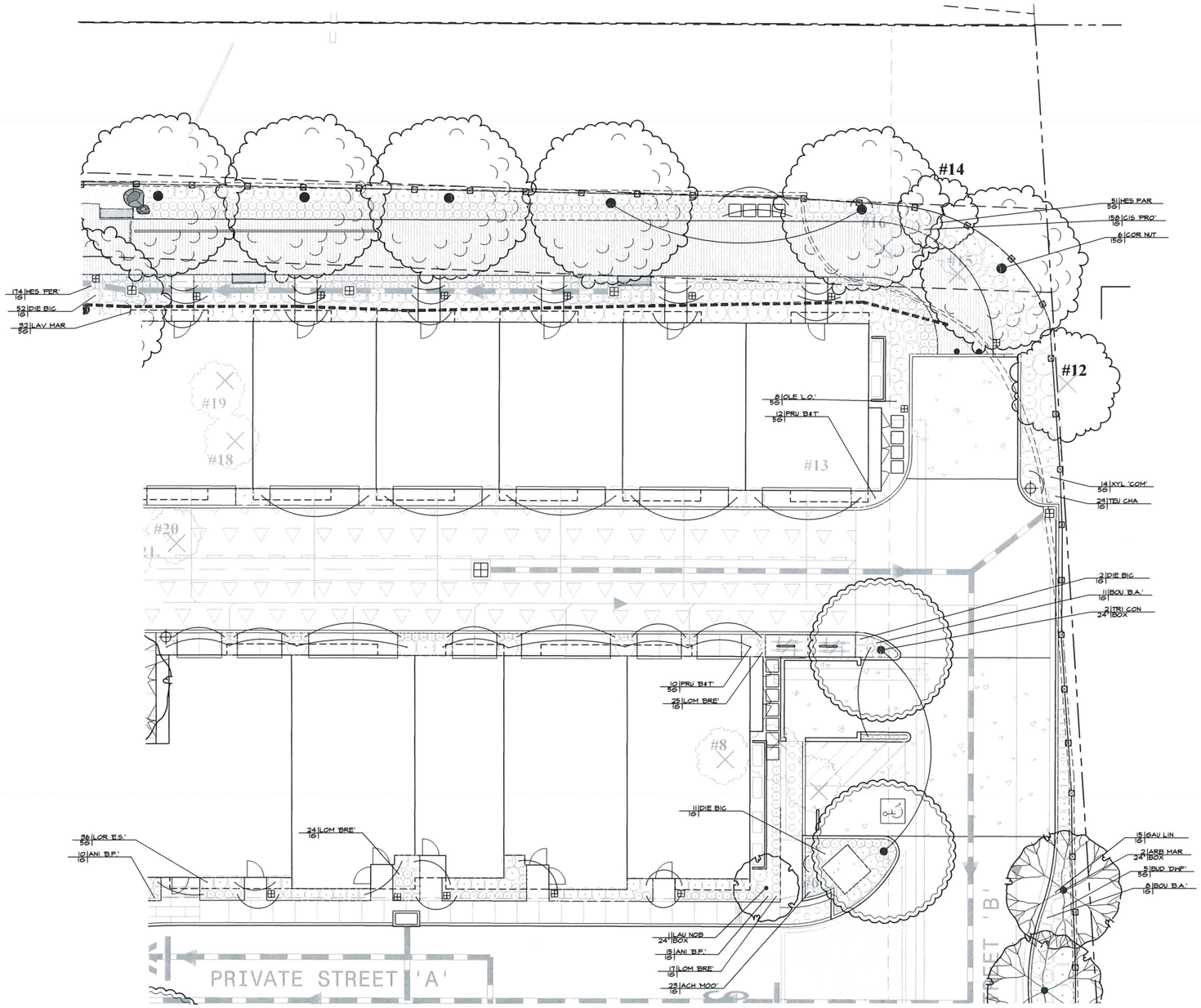
CAMPUS PROPERTY GROUP

Preliminary Landscape Plan
Planting Plan

San Rafael, California

OCTOBER, 2019

L6



PRELIMINARY PROPOSED PLANT PALETTE

EXISTING TREE TO REMAIN
XXX

EXISTING TREE TO BE REMOVED
#XXX

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PLANT QTY	PLANT SYMBOL
SIZE	UNITS

350 Merrydale Rd

San Rafael, California

RIPLEY DESIGN GROUP

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TEL: 925.938.7377
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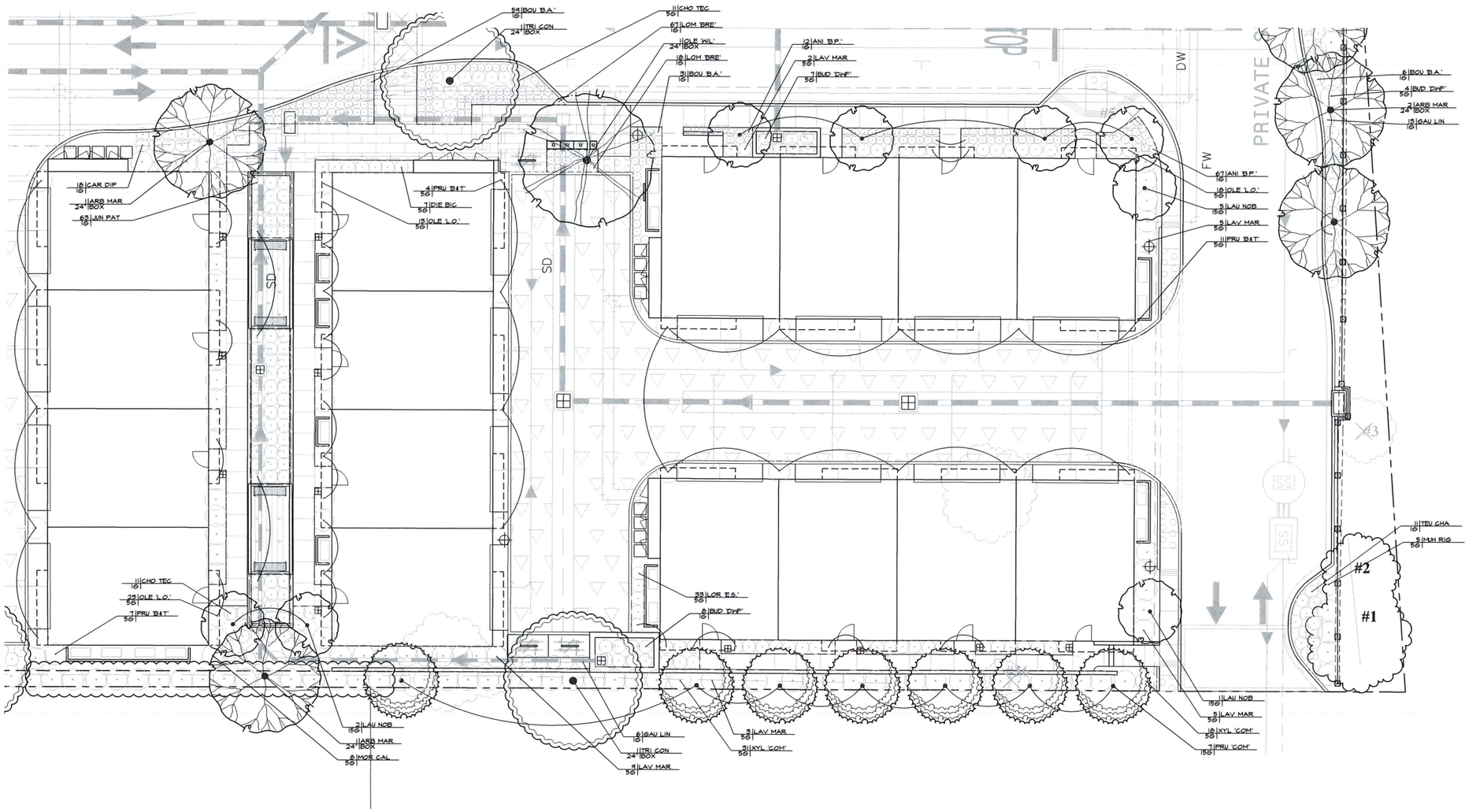
CAMPUS PROPERTY GROUP

Preliminary Landscape Plan
Planting Plan

OCTOBER, 2019

L7



PLANT CALLOUT SYMBOL KEY

PLANT QTY / SIZE	PLANT SYMBOL / UNITS

350 Merrydale Rd

San Rafael, California

OCTOBER, 2019

L8

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CAMPUS PROPERTY GROUP

Preliminary Landscape Plan
Planting Plan

PLANTING NOTES

1. THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES DURING CONSTRUCTION THROUGH COMPLETION OF PICK-UP WORK.

2. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL FORMS OF PLANT MATERIALS AND SPECIFIED INSTALLATIONS, INCLUDING FLATTED GROUNDCOVER.

3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND STAKING ALL SEWER, UTILITY AND WATER MAIN LINES PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COSTS INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES. CALL COMMON GROUND ALLIANCE (CGA) AT 811 TO LOCATE AND MARK UTILITIES PRIOR TO EXCAVATION.

4. SOIL PREPARATIONS: GROUNDCOVER AND TURF AREAS SHALL BE CROSSRIPPED OR TILLED TO A DEPTH OF NINE (9) INCHES. THE AMENDMENT SHALL BE UNIFORMLY BROADCAST PER 1,000 S.F. AND THOROUGHLY INCORPORATED TO A DEPTH OF 9" BY MEANS OF ROTOTILLER OR EQUAL. THE FOLLOWING FORMULA SHALL BE USED FOR BIDDING PURPOSES ONLY:
   - 6 CU.YDS. ORGANIC COMPOST
   - 35 LBS. 6-20-20 COMMERCIAL FERTILIZER
   - 50 LBS. IRON SULFATE (20% Fe)

5. BACKFILL FOR TREES AND SHRUBS: THE PLANTING PITS FOR TREES AND SHRUBS SHALL BE EXCAVATED TO TWICE THE DIAMETER AND TO THE DEPTH OF THE ROOTBALL. ON SITE SOIL SHALL BE USED FOR BACKFILL PURPOSES. THE FOLLOWING MIX SHALL BE USED FOR BIDDING PURPOSES ONLY:
   - 6 PARTS BY VOLUME ON SITE SOIL
   - 4 PARTS BY VOLUME ORGANIC AMENDMENT PER ABOVE
   - 2LB./CU.YD. OF MIX 6-20-20
   - 2LB./CU.YD. OF MIX IRON SULFATE PER CU.YD. OF MIX

6. ALL SOIL AMENDMENTS SPECIFIED ARE FOR BIDDING PURPOSES ONLY. ONCE SITE HAS BEEN ROUGH GRADED, CONTRACTOR SHALL OBTAIN A SOILS REPORT FROM WAYPOINT ANALYTICAL CALIFORNIA, INC. (408-727-0330) FOR SOIL AMENDMENTS. CONTRACTOR TO SUBMIT ONE COPY OF THE SOILS REPORT TO THE CITY, ONE COPY TO THE OWNER, AND ONE COPY TO THE LANDSCAPE ARCHITECT FOR USE IN PROVIDING UPDATED IRRIGATION SCHEDULING RECOMMENDATIONS TO BE INCLUDED PRIOR TO APPROVAL OF CERTIFICATE OF COMPLIANCE. CONTRACTOR SHALL FOLLOW THE SOIL PREPARATION AND BACKFILL MIX PER THE REPORT.

7. ALL 5 GALLON SHRUBS SHALL RECEIVE TWO (2) 21 GRAM AGRIFORM PLANTING TABLETS, ALL 15 GALLON TREES SHALL RECEIVE FOUR (4) 21 GRAM AGRIFORM PLANTING TABLETS AND ALL BOX TREES SHALL RECEIVE EIGHT (8) 21 GRAM AGRIFORM TABLETS.

8. ALL SHRUB AND GROUNDCOVER PLANTING AREAS SHALL BE MULCHED TO A MINIMUM DEPTH OF 3". MULCH TO BE RECYCLED WOOD WASTE, COLOR TO BE BLACK, ¼" TO 1" DIAMETER FROM WASTE MANAGEMENT, INC., SACRAMENTO, (916-452-0142).

9. CONTRACTOR SHALL SPRAY ALL EXISTING WEEDS IN PLANTING AREAS PRIOR TO RIPPING AND APPLY PRE-EMERGENT TO ALL SHRUB AREAS AFTER PLANTING.

10. CONTRACTORS SHALL APPLY FERTILIZER AND PRE-EMERGENT AT END OF MAINTENANCE PERIOD.

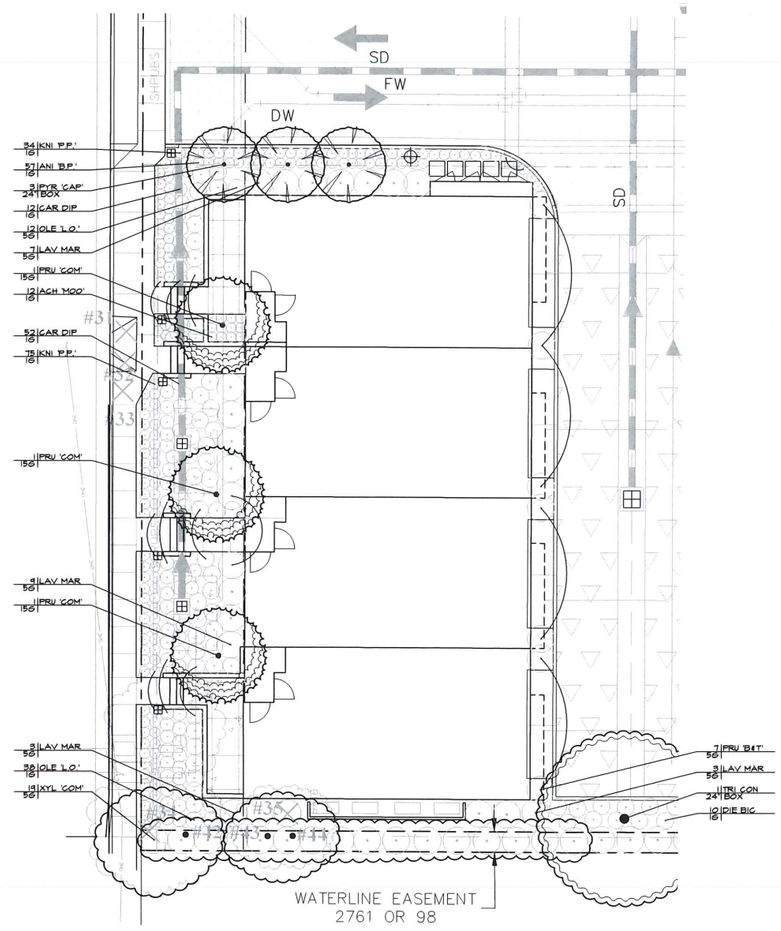
11. LANDSCAPE ARCHITECT AND/ OR OWNER RESERVES THE RIGHT TO SELECT OR REJECT ANY OR ALL PLANT MATERIAL.

12. REFER TO TREE PLANTING/STAKING DETAIL A, SHEET LP.3.

13. THIS PLAN COMPLIES WITH THE CRITERIA OF THE CITY'S WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIES THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

TREE REMOVAL

A TOTAL OF 43 MATURE TREES OF VARYING CONDITION ARE LOCATED ON THE PROJECT SITE AND (1) TREE THAT IS DEAD. ALL TREES HAVE BEEN PROPOSED FOR REMOVAL EXCEPT THE GROVE OF REDWOODS ON THE NORTHWEST (6) AND NORTHEAST (2) CORNERS OF THE PROJECT SITE, (3) IN THE SOUTHERN MOST CORNER OF THE PROPERTY LINE AND THE BISHOP PINES (2) AND COAST LIVE OAK (1) AT THE REDWOOD HIGHWAY ENTRY. THE TREES PROPOSED FOR REMOVAL ARE HIGHLIGHTED ON THE TREE INVENTORY. THERE IS A TOTAL OF 28 TREES PROPOSED FOR REMOVAL.



PRELIMINARY PROPOSED PLANT PALETTE

#XXX **EXISTING TREE TO REMAIN**
XXX

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ARBUTUS MENZIESII	MADRONE	15 GALLON	30' WIDE/30' HIGH	LOW	1
CORNUS NUTTALII	PACIFIC DOGWOOD	15 GALLON	15' WIDE/15' HIGH	LOW	10

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	QUANTITIES
SHRUBS					
ACH 'MOO'	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	1 GALLON	LOW	58
ANI 'B.P.'	ANIGOZANTHOS 'BUSH PEARL'	DWARF KANGAROO PAW	1 GALLON	LOW	238
BOU 'B.A.'	BOUTALOUA G. 'BLONDE AMBITION'	BLUE GRAMA GRASS	1 GALLON	LOW	144
BUD 'DWF'	BUDDLEJA D. 'DWARF VARIETY'	DWARF BUTTERFLY BUSH	5 GALLON	LOW	24
CHO TEC	CHORONDOPETALUM TECTORUM	CAPE RUSH	5 GALLON	LOW	38
CIS 'PRO'	CISTUS S. 'PROSTRATUS'	SAGELEAF ROCKROSE	1 GALLON	LOW	231
DIE BIC	DIETES BICOLOR	FORTNIGHT LILY	1 GALLON	LOW	104
FRA CAL	FRANGULA CALIFORNICA	CALIFORNIA COFFEEBERRY	5 GALLON	LOW	2
GAU LIN	GAURA LINDHEIMERI	LINDHEIMER'S BEEBLOSSOM	1 GALLON	LOW	88
HES PAR	HESPERALOE PARVIFLORA	RED YUCCA	5 GALLON	LOW	73
HES 'PER'	HESPERALOE P. 'PERPA'	BRAKELIGHTS RED YUCCA	1 GALLON	LOW	219
KNI 'P.P.'	KNIPHOFIA 'PINEAPPLE POPSICLE'	RED HOT POCKER	1 GALLON	LOW	213
LAV MAR	LAVATERA MARITIMA	TREE MALLOW	5 GALLON	LOW	99
LOM 'BRE'	LOMANDRA L. 'BREEZE'	DWARF MAT RUSH	1 GALLON	LOW	214
LOR 'E.S.'	LOROPETALUM 'EMERALD SNOW'	CHINESE FRINGE FLOWER	5 GALLON	LOW	94
MOR CAL	MORELLA CALIFORNICA	CALIFORNIA WAX MYRTLE	1 GALLON	LOW	20
MUH RIG	MUHLENBERGIA RIGENS	DEER GRASS	5 GALLON	LOW	13
OLE 'L.O.'	OLEA E. 'LITTLE OLLIE'	DWARF OLIVE	5 GALLON	LOW	186
PHO 'M.M.'	PHORMIUM T. 'MAORI MAIDEN'	NEW ZEALAND FLAX	5 GALLON	LOW	9
POL MUN	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GALLON	LOW	18
PRU 'B&T'	PRUNUS 'BRIGHT & TIGHT'	BRIGHT & TIGHT LAUREL	5 GALLON	LOW	78
TEU CHA	TEUCHRIUM CHAMAEDRYS	GERMANDER	1 GALLON	LOW	116
XYL 'COM'	XYLOSMA C. 'COMPACTA'	COMPACT XYLOSMA	5 GALLON	LOW	72
VINES					
LON HIS	LONICERA HISPIDULA	HAIRY HONEYSUCKLE	5 GALLON	LOW	6
SHRUBS - BIO-RETENTION					
BUD 'DWF'	BUDDLEJA 'DWARF VARIETIES'	DWARF BUTTERFLY BUSH	1 GALLON	LOW	15
CAR DIP	CAREX DIPSACEA	AUTUMN SEDGE	1 GALLON	LOW	175
JUN PAT	JUNCUS PATENS	CALIFORNIA RUSH	1 GALLON	LOW	210

PLANT CALLOUT SYMBOL KEY

PLANT QTY	PLANT SYMBOL
SIZE	UNITS

350 Merrydale Rd

San Rafael, California

OCTOBER, 2019

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RIPLEY DESIGN GROUP

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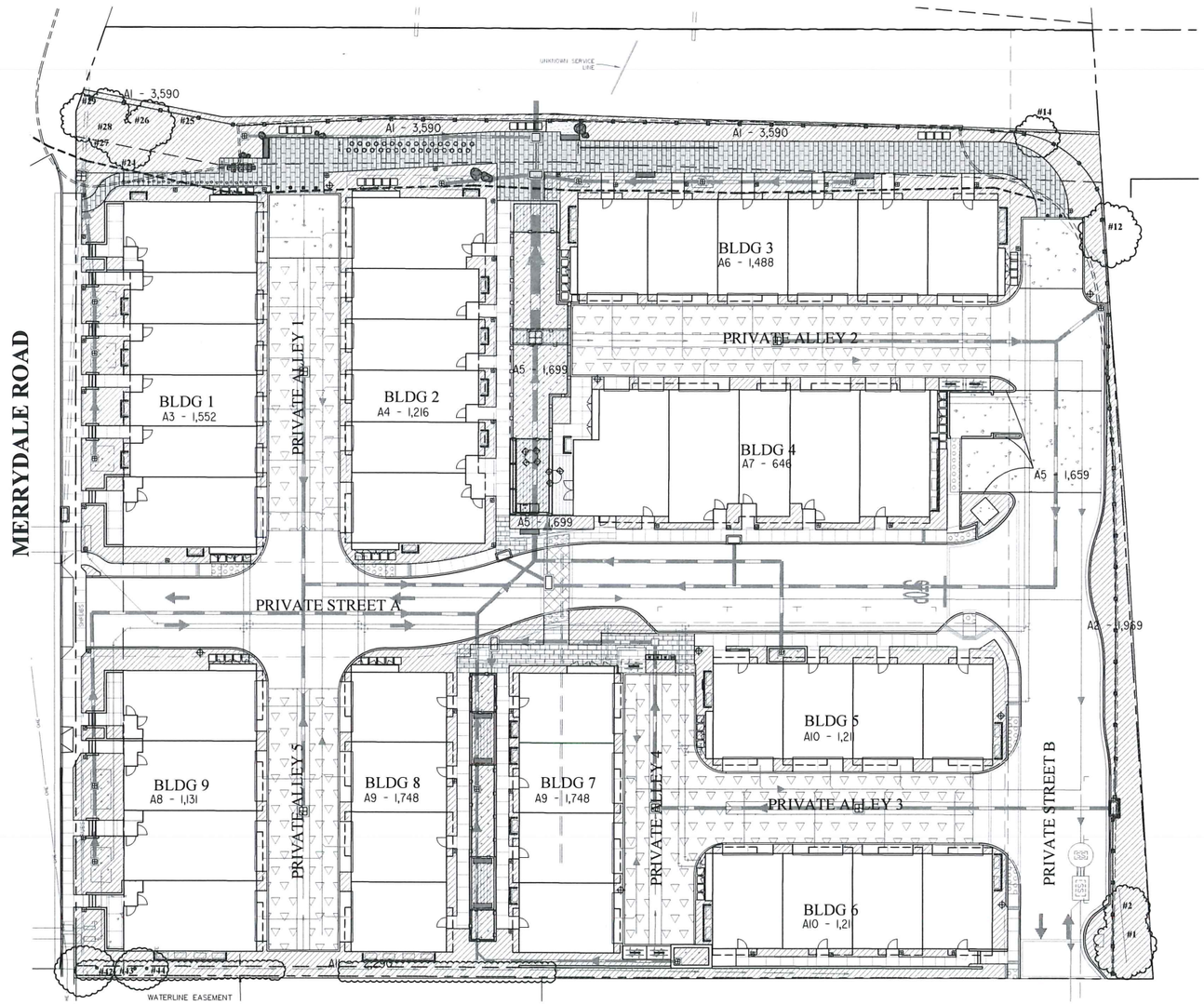
CAMPUS PROPERTY GROUP

Preliminary Landscape Plan
Planting Plan



WATER USE CALCULATIONS:

THE MAXIMUM APPLIED WATER ALLOWANCE (MAWA) IN GALLONS PER YEAR IS BASE ON THE FOLLOWING FORMULA:

MAWA = (ETO)(0.62)(0.55 X LA)

THE ESTIMATED TOTAL WATER USE (ETWU) IS THE SUM TOTAL OF ESTIMATED WATER USE FOR EACH HYDROZONE IN GALLONS PER YEAR AND IS BASED ON THE FOLLOWING FORMULA:

$$ETWU = (ETO)(0.62)\left(\frac{PF \times HA}{IE} + SLA\right)$$

ETO = REFERENCE EVAPOTRANSPIRATION (INCHES PER YEAR)
LA = LANDSCAPE AREA
HA = HYDROZONE AREA (SQUARE FEET)
PF = PLANT FACTOR FROM WUCOLS
IE = IRRIGATION EFFICIENCY (0.81)
0.55 = ET ADJUSTMENT FACTOR
0.62 = CONVERSION FACTOR (TO GALLONS)

REFERENCE EVAPOTRASNPIRATION (ETO) : 35.8

MAXIMUM APPLIED WATER ALLOWANCE: 270,329 GAL/YR

MAWA = (35.8) X (0.62) X (0.55 X 22,144) = 270,329 GAL/YR

ESTIMATED TOTAL WATER USE: 134,642 GAL/YR

$$\text{LOW ETWU} = (35.8) \times (0.62) \times \left(\frac{0.20 \times 18{,}426}{0.81}\right) = 100{,}984 \text{ GAL/YR}$$

HYDROZONE KEY

SYMBOL	DESCRIPTION
	18,426 SF LOW WATER USE

HYDROZONE INFORMATION TABLE

HYDROZONE (WATER USE)	ZONE/ VALVE	IRRIG. METHOD	AREA	% OF LANDSCAPE AREA
LOW	A-1	DRIP	3,590 SF	19.44%
LOW	A-2	DRIP	1,969 SF	10.66%
LOW	A-3	DRIP	1,552 SF	8.41%
LOW	A-4	DRIP	1,216 SF	6.59%
LOW	A-5	DRIP	1,659 SF	8.06%
LOW	A-6	DRIP	1,488 SF	7.9%
LOW	A-7	DRIP	572 SF	3.1%
LOW	A-8	DRIP	1,131 SF	6.12%
LOW	A-9	DRIP	1,748 SF	9.47%
LOW	A-10	DRIP	1,211 SF	6.56%
LOW	A-11	DRIP	2,290 SF	12.4%
TOTAL			18,426 SF	100%

HYDROZONES

NAME	TYPE	WATER USE	DESCRIPTION
350 MERRDALE ROAD			
A-1	DRIP	LOW	SHRUBS-BETWEEN ACCESS ROAD PLAZA & EXISTING CREEK RIFF RAFF
A-2	DRIP	LOW	SHRUBS-MEDIAN ALONG PRIVATE ROAD 'B'
A-3	DRIP	LOW	SHRUBS-SURROUNDING BUILDING 1
A-4	DRIP	LOW	SHRUBS-SURROUNDING BUILDING 2
A-5	DRIP	LOW	SHRUBS-BIO RETENTION BASIN & FRONTAGE AT BUILDING 4
A-6	DRIP	LOW	SHRUBS-NORTHERN/EASTERN EXPOSURES-SOUTH SIDE OF TRAILER
A-7	DRIP	LOW	GROUNDCOVER-FERRY LAUNCH ROAD PARKWAY-SOUTHERN 1/3
A-8	DRIP	LOW	GROUNDCOVER-FERRY LAUNCH ROAD-PRIVATE PROPERTY
A-9	DRIP	LOW	SHRUBS-FERRY LAUNCH ROAD-SOUTHERN/WESTERN EXPOSURES
A-10	DRIP	LOW	TREES-FERRY LAUNCH ROAD-PUBLIC PARKWAY
A-11	DRIP	LOW	GROUNDCOVER-FERRY LAUNCH ROAD PARKWAY-MIDDLE 1/3
A-12	DRIP	LOW	SHRUBS-SHARED SPACE BETWEEN PROPERTY LINE & BUILDINGS 6,7,8&9

GRAPHIC SCALE
0 20 40 60
(IN FEET)
1 inch = 20 ft.

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Water Efficient Landscape Ordinance & Landscape Data

OCTOBER, 2019

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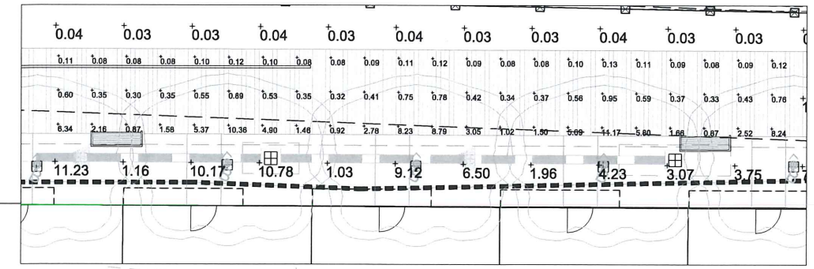
Luminaire Schedule										
Project: 350 MERRYDALE RD - 3RS SCHOOL SITE										
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	LDD	LLD	UDF *	Description	Filename	Lum. Watts
	6	A	SINGLE	4308	0.807	0.900	0.944	0.950	STERNBERG SL660-12L30T2-MDL018-CA-BLOC - 12' L.C.	SL660-12L40T2-MDL018-CA-BLOC.IES *	59.5
	2	A1	SINGLE	4569	0.807	0.900	0.944	0.950	STERNBERG SL660-12L30T3-MDL018-CA-BLOC - 12' L.C.	SL660-12L40T3-MDL018-CA-BLOC.IES *	59.5
	9	B	SINGLE	2118	0.697	0.900	0.944	0.820	STERNBERG BL-3-SL360-FG-26L27T3-F-MDL03 - 2.75' L.C.	SL360-FG-26L45T3-F-MDL03.IES *	31.3
	40	B1	SINGLE	2134	0.697	0.900	0.944	0.820	STERNBERG BL-3-SL360-FG-26L27T2-F-MDL03 - 2.75' L.C.	SL360-FG-26L45T2-F-MDL03.IES *	31.3
	14	C	SINGLE	1799	0.850	0.900	0.944	N.A.	SIGNIFY GARDCO 111L-16L-350-NW-G2-3-VOLT - 10' M.H.	111L-16L-350-NW-G2-3.IES	18.4

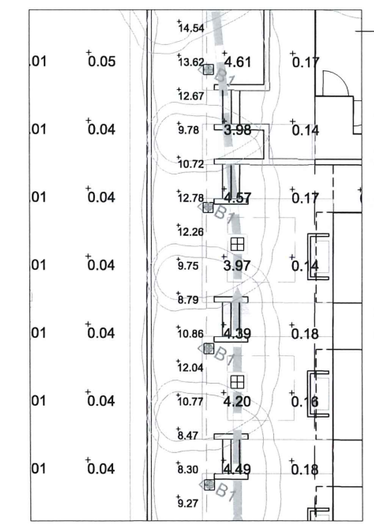
* UDF FACTOR PRORATED TO SIMULATE 3000K & 2700K. PHOTOMETRY IS BASED ON 4000K & 4500K; PHOTOMETRY FOR 3000K & 2700K ARE NOT AVAILABLE AT THE TIME OF THIS ANALYSIS. FIELD RESULTS MAY VARY.



TYPICAL PATHWAY B

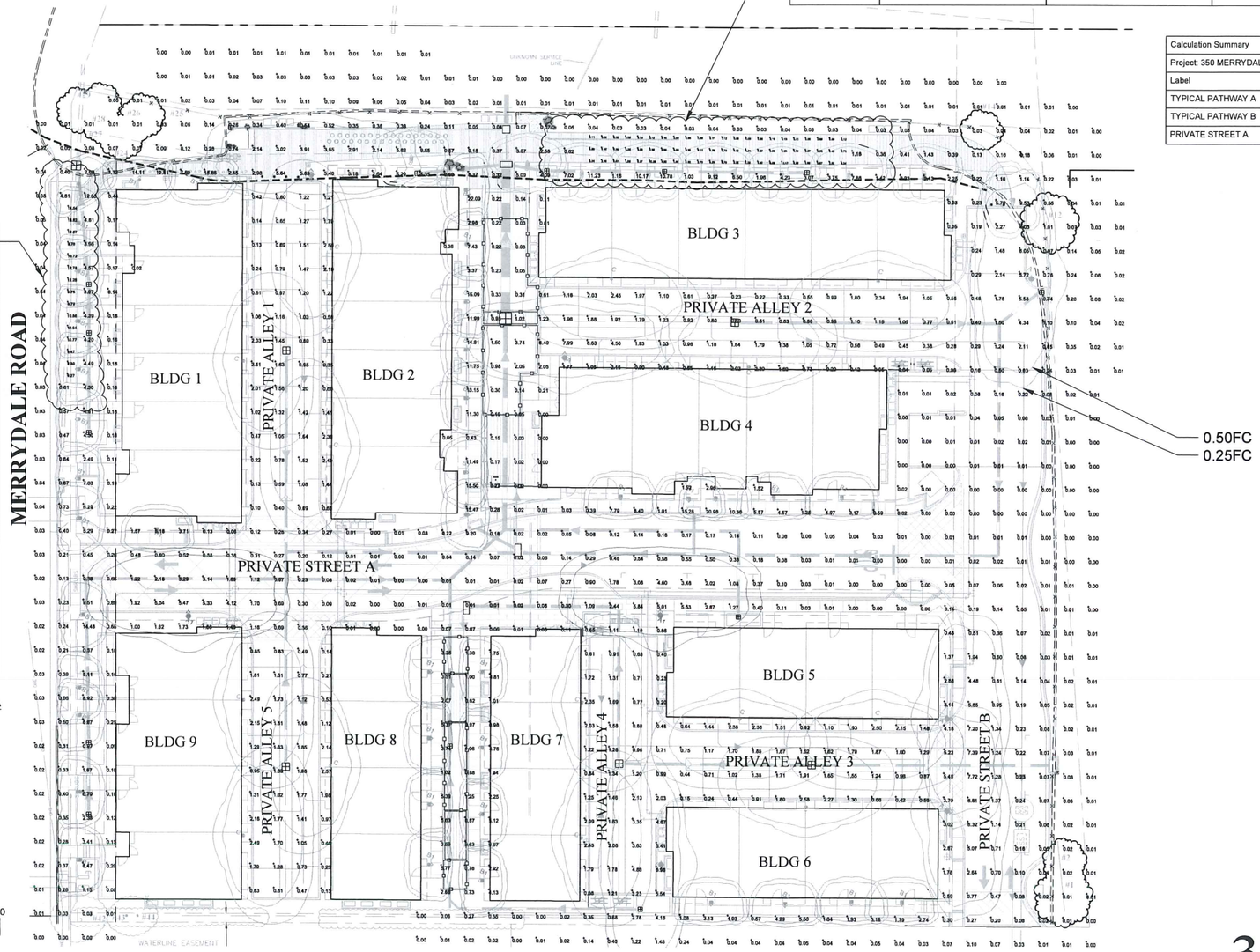
0 4 8 16
(IN FEET)
1/8" = 1'-0"

Calculation Summary								
Project: 350 MERRYDALE RD - 3RS SCHOOL SITE								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	# Pts
TYPICAL PATHWAY A	Illuminance	Fc	10.97	14.54	8.30	1.32	1.75	15
TYPICAL PATHWAY B	Illuminance	Fc	1.64	11.17	0.08	20.50	139.63	66
PRIVATE STREET A	Illuminance	Fc	0.78	9.51	0.00	N.A.	N.A.	97



TYPICAL PATHWAY A

0 4 8 16
(IN FEET)
1/8" = 1'-0"



GRAPHIC SCALE
0 20 40 60
(IN FEET)
1 inch = 20 ft.

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CAMPUS PROPERTY GROUP

Photometric Lighting Plan
Prepared by ALR, Inc.