

**DESIGN INTENT**

THE LANDSCAPE IS DESIGNED TO COMPLY WITH THE PRESCRIPTIVE COMPLIANCE OPTION OF THE LOCALLY ADOPTED STATE OF CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE ("WELCO"). COMPLIANCE WITH MANDATORY ELEMENTS OF WELCO MUST BE DOCUMENTED ON LANDSCAPE PLANS.

THE PLANS ARE DESIGNED TO DEMONSTRATE FIRE SAFER LANDSCAPING APPROACHES WITH LOWER, LESS WOODY PLANTS CLOSE TO BUILDINGS, AND TREES POSITIONED TO ALLOW MAINTENANCE OF BRANCHES 10' AWAY FROM BUILDINGS.

LOW IMPACT DEVELOPMENT ("LID") ELEMENTS SUCH AS PERMEABLE PAVING, AND DOWNSPOUTS DISCONNECTED FROM STORM SEWERS AND DRAINING TO RAINGARDENS OR LANDSCAPE STRIPS, ARE PROVIDED TO INFILTRATE MORE STORMWATER RUN-OFF ON SITE, INCREASE GROUNDWATER RECHARGE AND IMPROVE THE AMOUNT OF SOIL MOISTURE AVAILABLE TO PLANTS THEREBY REDUCING IRRIGATION NEEDS.

**LANDSCAPE DESIGN REQUIREMENTS**

THE PLANTINGS ARE DESIGNED TO COMPLY WITH THE APPENDIX D "PRESCRIPTIVE COMPLIANCE" OPTION OF WELCO:

- MEDIUM WATER USE PLANTINGS DO NOT EXCEED 25 PERCENT OF THE TOTAL PLANTED AND IRRIGATED AREA.
- LOW WATER USE OR CLIMATE-ADAPTED SPECIES THAT REQUIRE LITTLE OR NO SUMMER WATER ARE SELECTED FOR AT LEAST 75 PERCENT OF THE PLANTED AND IRRIGATED AREA
- PERMITTED LANDSCAPE AREA MUST BE SMALLER THAN 2500 SF OF PLANTED AND IRRIGATED AREA
- PLANS ARE INTENDED FOR USE ON SITES WITH LESS THAN 8% SLOPES.

**ADDITIONAL GUIDELINES FOR THE PLANTINGS:**

- FIRE SAFER PLANTINGS ARE INDICATED ON PLANT LISTS AND USED WITHIN 5' OF HOMES.
- CONVENTIONAL TURF IS NOT PROVIDED DUE TO HIGH WATER USE.
- TREES ARE LOCATED FOR SHADE ON GARDEN AREAS AND TO PROVIDE SOLAR ACCESS FOR SOLAR PANELS ON ROOFS. TREES ARE LOCATED AWAY FROM BUILDING STRUCTURES SO THAT BRANCHES CAN BE MAINTAINED 10' FROM ROOFS AND CHIMNEYS.
- PLANTS ARE PLACED IN APPROPRIATE MICROCLIMATES BY EVALUATING THE DIRECTION THE FRONT YARD IS FACING AND NORTH ARROWS ARE INDICATED ON PLANS
- PLANTS ARE GROUPED IN IRRIGATION ZONES ("HYDROZONES") BASED ON SIMILAR WATER NEEDS AS DEFINED BY THE STATE WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES IV ("WUCOLS IV") REGION 1 LIST
- RAINWATER AND STORMWATER ELEMENTS SHOULD BE REVIEWED WITH SITE DESIGN TEAM AND GENERAL CONTRACTOR PRIOR TO SITE GRADING
- PERVIOUS PAVING OPTIONS SHOULD BE REVIEWED WITH SITE DESIGN TEAM AND GENERAL CONTRACTOR
- SEE SONOMA-MARIN SAVING WATER PARTNERSHIP WEBSITE FOR FURTHER INFORMATION AND FAQ: <http://www.savingwaterpartnership.org/landscape-design-templates/>

**IRRIGATION DESIGN REQUIREMENTS AND GUIDELINES**

THE IRRIGATION SYSTEM IS DESIGNED TO COMPLY WITH THE PRESCRIPTIVE COMPLIANCE OPTION OF WELCO:

- INSTALL AN AUTOMATIC IRRIGATION CONTROLLER THAT DOES NOT LOSE PROGRAMMING DATA AFTER A POWER FAILURE (NON-VOLATILE MEMORY) AND UTILIZES EVAPOTRANSPIRATION OR SOIL MOISTURE SENSOR DATA.
- INSTALL A RAIN SENSOR.

**ADDITIONAL GUIDELINES FOR THE IRRIGATION SYSTEMS:**

- SYSTEM IS DESIGNED TO REDUCE WATER USE TO THE MINIMUM AMOUNT TO SUSTAIN HEALTHY PLANT GROWTH AND TO PREVENT RUNOFF.
- A MANUAL SHUT-OFF VALVE IS INSTALLED AS CLOSE AS POSSIBLE TO THE POINT OF CONNECTION.
- PRESSURE REGULATION IS PROVIDED TO ENSURE THE DYNAMIC PRESSURE OF THE SYSTEM IS WITHIN THE MANUFACTURERS RECOMMENDED PRESSURE RANGE FOR THE IRRIGATION COMPONENTS.
- ALL IRRIGATION EMISSION DEVICES MUST MEET THE ANSI STANDARD, ASABE/ICC 802-2014 LANDSCAPE IRRIGATION SPRINKLER AND EMITTER STANDARD. SPRINKLER HEADS MUST DOCUMENT A DISTRIBUTION UNIFORMITY LOW QUARTER OF 0.65 OR HIGHER.
- ALL AREAS UTILIZE DRIP IRRIGATION ASSEMBLIES TO ENABLE THE SCALING OF PLANS.
- SPRAY IRRIGATION NOT ALLOWED.

**TREE IRRIGATION:**

- ALLOW DEEP ROOT WATERING OF THE ENTIRE TREE ROOT SYSTEM WHICH EXTENDS WELL BEYOND THE DRIPLINE OF THE TREE CANOPY.
- ALLOW FOR MOVING THE TREE IRRIGATION DISTRIBUTION LINES AWAY FROM TREE TRUNK AFTER ESTABLISHMENT AND EXPANDING THE LINE OUTWARD WITH ROOT DEVELOPMENT.
- PROVIDE SEPARATE TREE VALVES SO THE TREE VALVE CAN BE LEFT ON DURING PERIODS OF DROUGHT.

**SOIL MANAGEMENT REQUIREMENTS**

SOIL MANAGEMENT IS DESIGNED TO COMPLY WITH THE PRESCRIPTIVE COMPLIANCE OPTION OF WELCO:

- INCORPORATE COMPOST AT A RATE OF AT LEAST FOUR CUBIC YARDS PER 1,000 SQUARE FEET TO A DEPTH OF SIX INCHES INTO THE LANDSCAPE AREA.
- AFTER PLANTING, A MINIMUM THREE INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS.
- MULCH CAN BE REDUCED FOR NATIVE GRASS AND/OR WILDFLOWER AREAS.

**POST-CONSTRUCTION REQUIREMENTS**

**STEP 5: POST-CONSTRUCTION CERTIFICATION**

TO BE SIGNED BY APPLICANT

I HAVE COMPLIED WITH THE REQUIREMENTS OF THE PRESCRIPTIVE COMPLIANCE OPTION OF THE WATER EFFICIENT LANDSCAPE ORDINANCE

APPLICANT NAME (PLEASE PRINT)

APPLICANT SIGNATURE

DATE

**STEP 6: WELCO FINAL INSPECTION CHECKLIST**

YES NO NA

- |                          |                          |                          |  |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <b>PLANTING</b>  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. ALL PLANTS INSTALLED ARE LISTED ON PLANS OR ON APPROVED PLANT SUBSTITUTION LIST   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. 75% OR MORE OF THE PLANTS ARE LOW WATER USE PER WUCOLS REGION 1   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. NO STANDARD HIGH WATER USE TURF HAS BEEN INSTALLED  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <b>SOIL</b>  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. A ONE (1) INCH LAYER OF COMPOST HAS BEEN APPLIED OVER PLANTING AREA   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. A THREE (3) INCH LAYER OF ORGANIC MULCH HAS BEEN APPLIED OVER ALL SHRUB PLANTING AREAS  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <b>IRRIGATION</b>  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. NO SPRAY IRRIGATION IS USED   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. STATIC AND DYNAMIC WATER PRESSURE NOTED AT THE POINT OF CONNECTION  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. WEATHER BASED SELF ADJUSTING CONTROLLER WITH NON-VOLATILE MEMORY IS INSTALLED PER MANUFACTURERS SPECIFICATIONS                            |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. RAINSENSOR AND WEATHER SENSOR (IF REQUIRED FOR WEATHER DATA) INSTALLED PER MANUFACTURERS SPECIFICATION AND IS FUNCTIONING                 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. CONTROLLER IS ACURATELY PROGRAMMED  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. CONTROLLER CHART IS PLACED IN CONTROLLER HOUSING OR ADJACENT TO CONTROLLER  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. CONTROLLER CHART CLEARLY INDICATES STATIONS & VALVE ZONES   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. CONTROLLER CHART CLEARLY INDICATES JULY IRRIGATION SCHEDULE FOR EACH ZONE AND INCLUDES PROGRAMS, DAYS PER WEEK, START TIME, AND RUN TIMES |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. IRRIGATION SYSTEM SHUT OFF VALVE INSTALLED  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. IRRIGATION SYSTEM SHUT OFF VALVE LOCATION IS AS SHOWN ON PLAN OR ON AS-BUILT   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. DRIP IRRIGATION CONTROL ZONE ASSEMBLIES ARE INSTALLED AND FUNCTIONING  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12. DRIP IRRIGATION LINES ARE INSTALLED AS SHOWN ON PLAN & DETAILS   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13. DRIP FLUSHOUTS ARE INSTALLED LOWEST POINT OF EACH ZONE AND ARE FUNCTIONING   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14. SYSTEM OPERATES WITHOUT LEAKS, BREAKS OR RUNOFF  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 15. EQUIPMENT INSTALLED IS AS SHOWN ON APPROVED IRRIGATION EQUIPMENT LIST, OR EQUAL  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <b>GENERAL</b>   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHANGES ARE NOTED ON AS-BUILT PLAN AND IS PROVIDED AT TIME OF INSPECTION  |

**SYMBOLS & DEFINITIONS**

- CLIMATE ADAPTIVE: NON-NATIVE PLANTS WHICH ARE ADAPTED TO LOCAL MICROCLIMATES.
- INVASIVE PLANTS: CALIFORNIA INVASIVE PLANT COUNCIL ("Cal-IPC") DEFINES INVASIVE PLANTS AS: PLANTS THAT ARE NOT NATIVE TO AN ENVIRONMENT, AND ONCE INTRODUCED, THEY ESTABLISH, QUICKLY REPRODUCE AND SPREAD, AND CAUSE HARM TO THE ENVIRONMENT, ECONOMY, OR HUMAN HEALTH.
- HYDROZONE: AN AREA OF THE LANDSCAPE HAVING PLANTS WITH SIMILAR WATER NEEDS AND ROOTING DEPTHS AND THE SAME MICRO-CLIMATE.
- IRRIGATION CONTROLLER: SMART CONTROLLERS ARE REQUIRED THESE ADJUST AUTOMATICALLY USING WEATHER OR SOIL MOISTURE DATA
- MICROCLIMATE: THE CLIMATE WITHIN EACH DIFFERENT SUB-AREA OF THE LANDSCAPE WHICH DEPENDS ON ITS SUN AND WIND EXPOSURE, PROXIMITY TO REFLECTIVE SURFACES, PLANT DENSITY AND OTHER FACTORS.
- WELCO: THE CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE THAT REQUIRES WATER CONSERVATION MEASURES TO BE IMPLEMENTED IN LANDSCAPES AND HAS BEEN IN EFFECT SINCE 1990.
- PLANT WATER USE: AN ESTIMATE OF THE AMOUNT OF WATER NEEDED BY PLANTS TO THRIVE IN WARM/DRY PERIODS. PLANTS ARE GROUPED INTO VERY LOW, LOW, MODERATE AND HIGH WATER USE AND ARE ASSIGNED PLANT FACTOR VALUES.
- TURF: A GROUND COVER SURFACE OF MOWED GRASS (CONVENTIONAL LAWN)
- TURF ALTERNATIVE: A LOW WATER USE GRASS OR GROUNDCOVER PLANTING THAT SPREADS TO FORM A LOW COVER THAT CAN BE OCCASIONALLY WALKED UPON.
- WEATHER SENSOR: SENSOR CONNECTED TO THE IRRIGATION CONTROLLER WHICH DETECTS RAIN, FREEZE, WIND ETC. AND SUSPENDS OR ADJUSTS IRRIGATION OPERATION

**REFERENCE**

TITLE 23 CHAPTER 2.7 MWELCO: THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE

**MWELCO SECTIONS:**

- 490.1 (c) & D 9 (a): APPLICABILITY
- 491 DEFINITIONS
- D (b) (A-H): PROJECT INFORMATION
- D (b) (H): LANDSCAPE DOCUMENTATION PACKAGE
- D (b) (5): IRRIGATION DESIGN PLAN
- D (b) (2) & (3) (B): SOIL MANAGEMENT
- D(c) MWELCO FINAL INSPECTION CHECKLIST
- SECTION 492.7
- (a)(1)(B) IRRIGATION CONTROLLER
- (a)(1)(D) WEATHER SENSOR

**PRE CONSTRUCTION - PERMIT APPLICATION BY OWNER - FILL IN AREAS BELOW**

**CONFIRM APPLICABILITY**

THIS PLAN SHEET IS FOR USE FOR:  
1) FRONT YARD LANDSCAPES UP TO 2,500 SF WHICH AGENCY ALLOWS TO COMPLY WITH PRESCRIPTIVE (APPENDIX D OF MWELCO).

**STEP 1: PROJECT INFORMATION**

TO BE FILLED OUT BY APPLICANT

DATE:

7/19/18

PROJECT APPLICANT (NAME)

John Smith

PROJECT ADDRESS:

XX LANE

TOTAL PROJECT LANDSCAPE AREA (≤2500 SF): 1100 (SF)

MEDIUM WATER USE PLANT MATERIAL AREA (≤ 25%): 0 (SF)

LOW TO VERY LOW NON-TURF PLANT MATERIAL AREA (≤ 75%): 1100 (SF)

PROJECT TYPE: NEW RESIDENTIAL

WATER SUPPLY TYPE: (POTABLE/RECYCLED/WELL)

CITY / DOMESTIC

LOCAL WATER PURVEYOR:

SCWA

**STEP 2: SIGN PRE-CONSTRUCTION AGREEMENT**

TO BE SIGNED BY APPLICANT

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE PRESCRIPTIVE COMPLIANCE OPTION OF THE WATER EFFICIENT LANDSCAPE ORDINANCE

APPLICANT NAME (PLEASE PRINT)

John Smith

APPLICANT SIGNATURE

[Signature]

7/19/18

**STEP 3: PROVIDE PERMIT AGENCY REQUIRED PLANS**

- |   |                       |
|---|-----------------------|
| <b>PLANS TO BE PROVIDED BY APPLICANT:</b> | <b>OPTIONAL PLANS</b> |
| L-0.0 PERMIT COVER SHEET                  | GW-1.0                |
| L-1.0 LANDSCAPE DESIGN PLAN               | GW-1.1                |
| L-1.1 LANDSCAPE DESIGN PLAN               | RW-1.0                |
| L-2.0 IRRIGATION DESIGN PLAN              |                       |
| L-2.1 IRRIGATION DESIGN PLAN              |                       |
| L-2.2 IRRIGATION DESIGN PLAN              |                       |
| L-2.3 IRRIGATION DESIGN PLAN              |                       |
| L-2.4 IRRIGATION DESIGN PLAN              |                       |
| L-2.5 IRRIGATION DESIGN PLAN              |                       |
| L-2.6 IRRIGATION DESIGN PLAN              |                       |
| L-2.7 IRRIGATION DESIGN PLAN              |                       |
| L-2.8 IRRIGATION DESIGN PLAN              |                       |
| L-2.9 IRRIGATION DESIGN PLAN              |                       |
| L-3.0 PAVING DETAILS                      |                       |
| L-3.1 L.I.D. DETAILS                      |                       |
| L-3.2 PLANTING DETAILS                    |                       |

**STEP 4: SIGN DISCLAIMER**

TO BE SIGNED BY APPLICANT

BY USING THESE PLANS, I AGREE TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE SONOMA-MARIN SAVING WATER PARTNERSHIP, ITS MEMBERS (SONOMA COUNTY WATER AGENCY, CITY OF SANTA ROSA, MARIN MUNICIPAL WATER DISTRICT, NORTH MARIN WATER DISTRICT, CITY OF ROHNERT PARK, CITY OF PETALUMA, CITY OF COTATI, CITY OF SONOMA, VALLEY OF THE MOON WATER DISTRICT AND TOWN OF WINDSOR) AND THEIR DIRECTORS, OFFICERS, AGENTS, EMPLOYEES AND LANDSCAPE DESIGN CONSULTANTS AGAINST ANY AND ALL LOSS, LIABILITY, EXPENSE, CLAIMS, SUITS AND DAMAGES, INCLUDING ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS LANDSCAPE PLAN. I UNDERSTAND THAT IT IS MY RESPONSIBILITY AS THE PROJECT OWNER TO ENSURE THAT PLAN ELEMENTS ARE IMPLEMENTED SAFELY AND ACCORDING TO APPLICABLE STATUTES, RULES, REGULATIONS, ORDINANCES AND/OR CODES.

SONOMA-MARIN SAVING WATER PARTNERSHIP, ITS MEMBERS AND LANDSCAPE DESIGN CONSULTANTS MAKE NO REPRESENTATIONS AND GRANT NO WARRANTIES, EXPRESS OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, BY STATUTE OR OTHERWISE, AND SONOMA-MARIN SAVING WATER PARTNERSHIP, ITS MEMBERS AND DESIGN CONSULTANTS EACH SPECIFICALLY DISCLAIM ANY OTHER WARRANTIES, WHETHER WRITTEN OR ORAL, OR EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE OR ANY WARRANTY AS TO THE VALIDITY OF ANY PATENTS OR THE NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS OF THIRD PARTIES.

APPLICANT NAME (PLEASE PRINT)

John Smith

APPLICANT SIGNATURE

[Signature]

7/19/18

**AGENCY STAMP**

[Empty Agency Stamp Box]



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RESIDENTIAL LANDSCAPE DESIGN TEMPLATE  
SONOMA-MARIN SAVING WATER PARTNERSHIP  
[www.savingwaterpartnership.org](http://www.savingwaterpartnership.org)  
NAME: John Smith  
SITE ADDRESS: XX LANE SP, CA



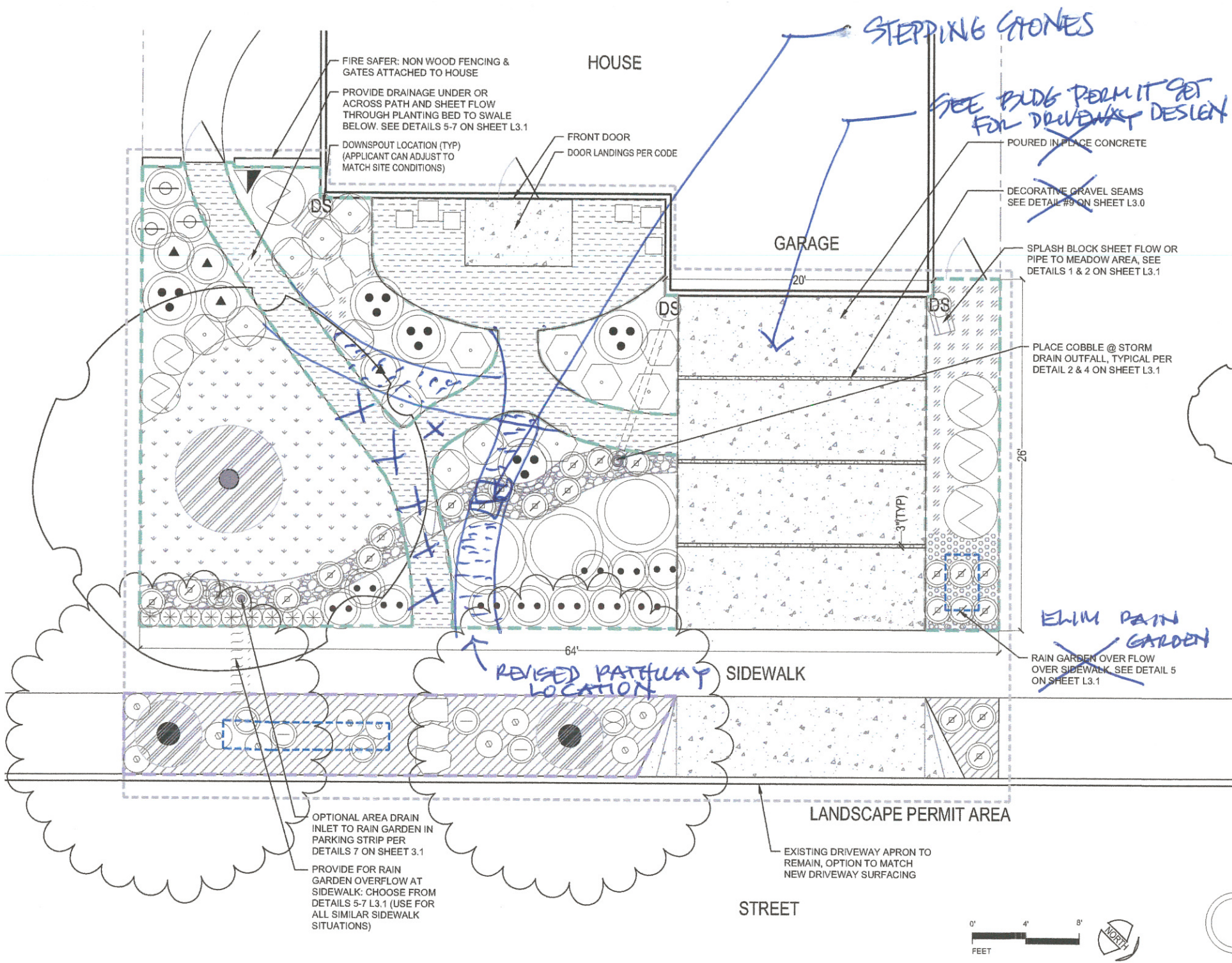
SHEET TITLE:  
RESIDENTIAL LANDSCAPE PERMIT COVER SHEET

DATE  
PERMIT PLAN  
MAY 18, 2018

L-0.0

SHEET OF





**MATERIALS LEGEND**

	UNITS	PLAN QUANTITY	PERMIT QUANTITY (FILL IN)
<b>VEHICULAR PAVING</b>			
CONCRETE	SF	450	NA
<b>PEDESTRIAN PAVING</b>			
AGGREGATE PAVING, CHOOSE FROM DETAILS 1-5 ON SHEET L3.0	SF	137	#1
MULCH SEE DETAIL 5 ON SHEET L3.2	SF		
<b>STORM WATER ELEMENTS</b>			
SWALE/CASCADE: COBBLE & TRINITY GRAVEL WITH PLANTINGS SEE DETAILS #6 & 9 ON SHEET L3.1	LF	43	
RAIN GARDEN: 3/8" GRAVEL MULCH OR PEA GRAVEL, SEE DETAIL 3 ON SHEET L3.1	SF	40	
STORM DRAINAGE ACROSS/UNDER PATH, SEE DETAIL 5-7 ON SHEET L3.1	EA	1	
STORM DRAIN PIPE SEE DETAIL 2 ON SHEET L3.1	LF	12	

\*SEE SHEETS L3.0-3.2 FOR MATERIALS OPTIONS

**PLANTING LEGEND**

**PLANTING LOW WATER USE**

AREA	BOTANICAL NAME	SIZE	SPACING	PLAN QUANTITY	PERMIT QUANTITY (FILL IN)
	LARGE TREE QUERCUS TOMENTELLA (ISLAND OAK)	15G	20' 50" O.C.	1	
	MEDIUM TREE NYSSA SYLVATICA (TUPELO)	15G	20' 50" O.C.	2	
	GROUND COVER EPILOBIMUM 'ORANGE CARPET'	4"	12" O.C.	16	9
	GRASSES/SEDGES/RUSHES FESTUCA CALIFORNICA, SEED WILDFLOWERS, POPPIES, BABY BLUE EYES, COLLINSIA	2"	30" O.C.	120	
	FESTUCA IDAHOENSIS 'STONY CREEK' (DAHO FESCUE)	4"	18" O.C.	9	
	CAREX PUMILA (PODWELL SEDGE)	4"	2' O.C.	24	
	PERENNIALS 0-2' SUN Juncus patens	4"	3' O.C.	11	
	ERIOPHYLLUM LAEVATUM	4"	3' O.C.	11	
	PERENNIALS 2-4' SUN				
	ACHILLEA MILLEFOLIUM (YARROW) 'CALISTOGA' OR 'A. FILIPENDULA'	4"	3' O.C.	9	
	ACHILLEA TOMENTOSA (WOOLLY YARROW)	4"	3' O.C.	4	
	ASCLEPIAS SPECIOSA (SHOWY MILKWEED)	4"	4' O.C.	3	
	SHRUBS 1-3' SUN CISTUS SKANBERGII	1G	4' O.C.	6	
	ARGOSTEMMA VULGARIS (MAYNARDIA)	1G	4' O.C.	3	
	MONARDELLA VILLOSA	4"	3' O.C.	8	
	SHRUBS 3-6' SUN				
	CEANOTHUS 'CONCHA' (CALIFORNIA LILAC)	1G	6' O.C.	3	
	SALVIA 'HOT LIPS' (HOT LIPS SAGE)	1G	4' O.C.	4	
	VINE PLANTING ARISTOLOCHIA CALIFORNICA (CALIFORNIA PIPEVINE)	1G		1	

**PLANTING MEDIUM WATER USE**

**PARK STRIP - RAIN GARDEN**

	UNITS	PLAN QUANTITY	PERMIT QUANTITY (FILL IN)
RED FESCUE (NATIVE)	SF	142	
AGASTACHE MEXICANA	2"	30"	
SOLIBO CALIFORNENSIS (GARDEN GOLDENROD)	4"	144"	3
JUNCUS EFFUSUS 'CARPENS JAPAN' (CARPENS-CHEERED JAPANESE RUSH)	4"	3' O.C.	10
CAREX PRATENSIS	4"	3' O.C.	10
ASTER CHILENSIS 'POINT SAINT GEORGE' (DWARF CALIFORNIA ASTER)	4"	3' O.C.	3

\*SEE MASTER PLANT LIST FOR PLANT SUBSTITUTIONS AND SHADE ALTERNATES, AVAILABLE FROM SONOMA-MARIN SAVING WATER PARTNERSHIP <http://www.savingwaterpartnership.org>.

**PLANTING NOTES:**

- REFER TO PLANTING DETAILS ON SHEET L3.2.

- APPLICANT INSTRUCTIONS:**
- MEASURE ENTIRE FRONT YARD AREA. SUBTRACT HARDSCAPE AREAS TO GET THE TOTAL SQUARE FEET OF PLANTED AND IRRIGATED AREA. ENTER THIS NUMBER IN THE PLANT WATER USE TABLE ON THIS SHEET.
  - IF NEEDED USE A RED PEN TO ADJUST THE LAYOUT OF DRIVEWAY, PATHS AND PLANTING AREAS TO FIT YOUR YARD.
  - ADJUST ORIENTATION OF NORTH ARROW TO SITE CONDITION.
  - ADD ANY EXISTING TREES IN RED ON THE PLAN. ADJUST TREE LOCATIONS IF NEEDED TO FIT YOUR SITE.
  - FILL IN PLANT WATER USE TABLE.
  - INSURE LESS THAN 25% OF PLANTED AREA IS MEDIUM WATER USE PLANTINGS.
  - IN THE LEGEND, CIRCLE THE HARDSCAPE MATERIALS YOU WILL BE USING AND ON DETAIL SHEETS L3.0, L3.1 & L3.2.
  - INDICATE ANY SUBSTITUTIONS TO THE PLANTINGS BY CROSSING OUT THE LISTED PLANTS AND WRITING THE SUBSTITUTION BELOW IN RED INK. MAKE SURE THE PLANTS USED HAVE MATCHING WATER USE AND ARE ROUGHLY THE SAME SIZE (SEE SONOMA-MARIN SAVING WATER PARTNERSHIP <http://www.savingwaterpartnership.org> FOR SUBSTITUTIONS).
  - MOVE TO THE IRRIGATION PLAN AND FILL IN THE AREAS INDICATED ON THAT SHEET.
- NOTE:**
- PLANTING DESIGN FOR FULL COVER WITHIN 3 YEARS.
  - THE GARDEN IS DESIGNED TO CAPTURE AND INFILTRATE SOME STORM WATER ON SITE. WHEN THE FLOW IS DIRECTED TO A SWALE OR RAIN GARDEN, IT NEEDS AN OVERFLOW OUTLET THAT WON'T ERODE. OPTIONS ARE PROVIDED ON THE DETAIL SHEETS. SPLASHBLOCKS AND OUTLETS IN PLANTING BEDS ARE MEANT TO SPREAD THE FLOW TO SHEETFLOW OVER PLANTING AREAS AND NO OVERFLOW DEVICE IS NEEDED.
  - REVIEW IRRIGATION SHEETS AND INSTALL SLEEVES UNDER PAVING SURFACES IN THEIR CORRECT LOCATION.

**PLANT WATER USE TABLE**

APPLICANT PLANTED & IRRIGATED AREA: **1100**

ZONE	WATER USE	PLAN SQ.FT.	PERMIT SQ.FT.(FILL IN)
1	LOW	857 (79%)	871
2	MED	229 (21%)	229
TOTAL		1,086 (100%)	1100

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RESIDENTIAL LANDSCAPE DESIGN TEMPLATE  
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[www.savingwaterpartnership.org](http://www.savingwaterpartnership.org)

NAME: \_\_\_\_\_  
SITE ADDRESS: \_\_\_\_\_

SONOMA-MARIN SAVING WATER PARTNERSHIP

SHEET TITLE:  
LAYOUT & PLANTING PLAN  
NATIVE ADAPTIVE

DATE:  
PERMIT PLAN  
JULY 3, 2018

**L-1.0**

SHEET OF

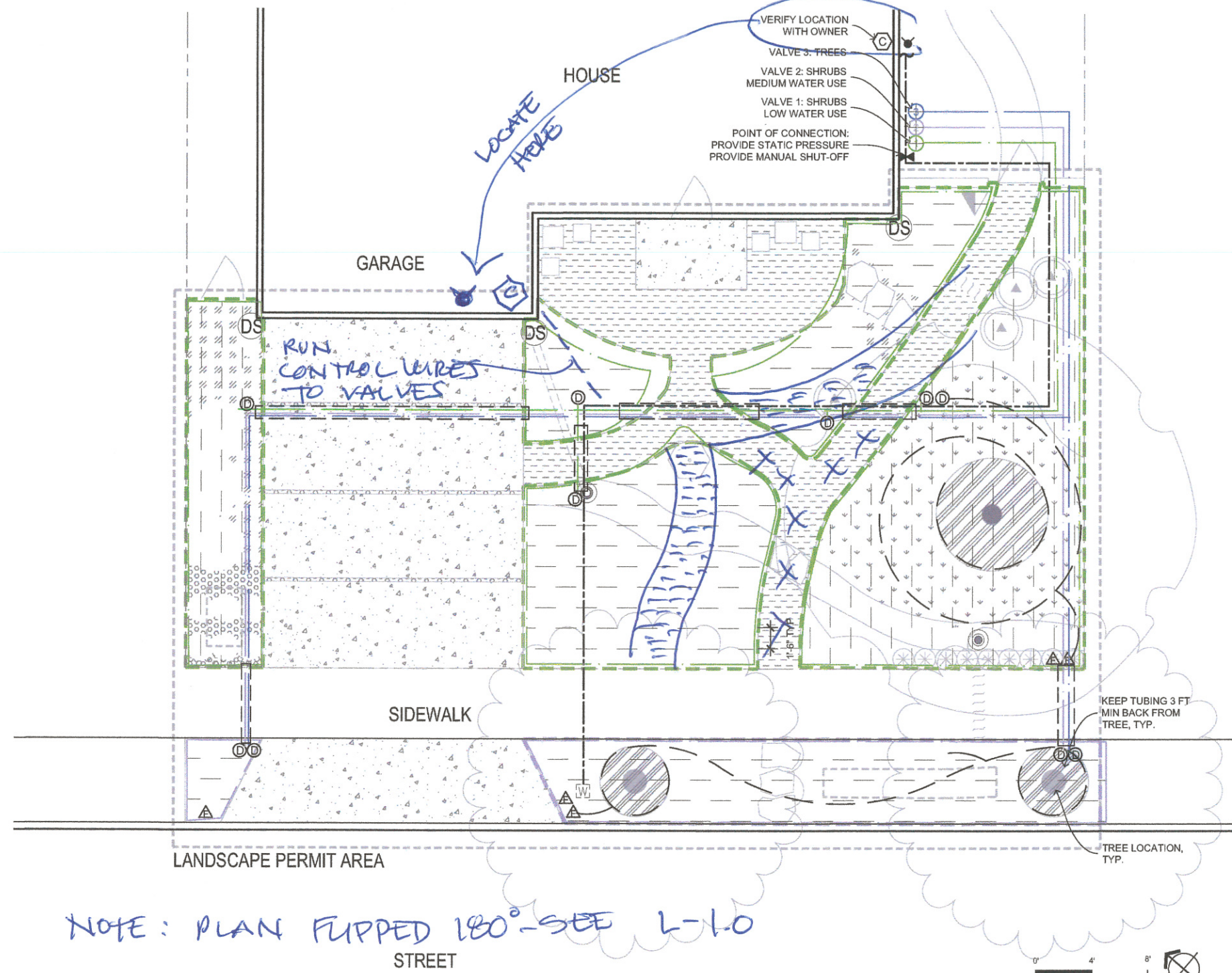


**IRRIGATION LEGEND**

APPLICANT CHECK-OFF COMPONENTS	SYMBOL	COMPONENT	MANUFAC-TURER	MODEL	NOTES / SIZE / COLOR
<input checked="" type="checkbox"/>	W	EXISTING WATER METER			
<input checked="" type="checkbox"/>	C	CONTROLLER	HUNTER	PRO-C	INDOOR
<input checked="" type="checkbox"/>	S	WEATHER SENSOR	HUNTER	SOLAR-SYNC-SEN	WIRED
<input checked="" type="checkbox"/>	B	FULL PORT BALL VALVE	NIBCO	585	LINE SIZE
<input checked="" type="checkbox"/>	S	SLEEVE		PVC SCH 40	
<input checked="" type="checkbox"/>	M	MAINLINE		PVC SCH 40 WITH SCH 40 SOLVENT WELD FITTINGS	
<input checked="" type="checkbox"/>	L	LATERAL PIPE (COLOR VARIES PER ZONE)		PVC SCH 40 WITH SCH 40 SOLVENT WELD FITTINGS	PIPE SIZE: 0-6 GPM: 3/4" PIPE; 7-12 GPM: 1" PIPE;
<input checked="" type="checkbox"/>	+	DRIP IRRIGATION CONTROL VALVE ASSEMBLY TO INCLUDE:			
		ASSEMBLY		ACZ-075-40 DRIP CONTROL ZONE KIT	ALL-IN-ONE KIT INCLUDES BACKFLOW PREVENTION, FILTER AND PRESSURE REGULATOR
		ANTI-SIPHON VALVE (COLOR VARIES PER ZONE)	HUNTER	PGV-ASV, INCLUDED IN KIT	3/4 INCH ANTI-SIPHON VALVE PROVIDES BACKFLOW PREVENTION
		DRIP FILTER		INCLUDED IN KIT	150 MESH STAINLESS STEEL SCREEN
		PRESSURE REGULATION		INCLUDED IN KIT	40 PSI
		NIPPLE			PVC SCH 80 UV RESISTANT
<input checked="" type="checkbox"/>	D	TRANSITION TO DRIP ZONE			SEE DETAIL
<b>DRIP LAYOUT</b>					
	P	PLANTING BEDS			
	T	TREES			
		INLINE EMITTER TUBING	NETAFIM	TLCV4-1801	CLAY SOIL: EMITTER FLOW: 0.26 GPH; EMITTER SPACING: 18"; ROW SPACING: 18" LOAM SOIL: EMITTER FLOW: 0.4 GPH; EMITTER SPACING: 18"; ROW SPACING: 18" SANDY SOIL: EMITTER FLOW: 0.6 GPH; EMITTER SPACING: 12"; ROW SPACING: 18"
		DRIP FLUSHOUT	NETAFIM	TLFIG8	
SYMBOLS FOR COMPONENTS ARE LARGER THAN ACTUAL SIZE AND MAY BE SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY. COORDINATE LOCATION OF EQUIPMENT WITH PLUMBER.					
ALL PIPE RUNS UNDER PAVING ARE IN SLEEVES, INSTALL SLEEVES PRIOR TO POURING CONCRETE					

**APPLICANT INSTRUCTIONS:**

- ADJUST LAYOUT OF PLANTING BEDS IF CHANGED ON LAYOUT SHEET 1.0.
- REVIEW IRRIGATION VALVE TABLE TO ADJUST SF AREAS OF VALVE ZONES.
- IF AREAS EXCEED MAX SUBZONE FLOW (3 GPM) DIVIDE INTO ADDITIONAL SUBZONES AND ENTER UNDER SUBZONE COLUMN
- IF AREAS EXCEED MAX ZONE FLOW (7 GPM) ADD A VALVE AND ENTER SF AREA NEXT TO NEW VALVE NUMBER ("B" OR "C")
- DRAW OUT NEW SUBZONE AND/OR VALVE ZONE AREA ON PLAN IN NEW COLOR.
- ADD VALVE AS NEEDED TO VALVE MANIFOLD.
- REVIEW IRRIGATION LEGEND AND CHECK OFF THAT ALL COMPONENTS ARE SHOWN ON ADJUSTED PLAN.
- NOTE ANY EQUIPMENT SUBSTITUTIONS.



**NOTE: PLAN FLIPPED 180° - SEE L-1.0**

ZONE	WATER USE	PLAN SQ.FT.	PERMIT SQ FT(FILL IN)
APPLICANT PLANTED & IRRIGATED AREA: <u>1100</u>			
1	LOW	857 (79%)	<u>871</u>
2	MED	229 (21%)	<u>229</u>
TOTAL		1,086 (100%)	<u>1100</u>

**IRRIGATION VALVE TABLE**

HYDRO ZONE	WATER USE	VALVE	PLAN SF	SUB-ZONES	PERMIT SF (FILL IN)	SUB-ZONES (FILL IN)	SOIL TYPE (CLAY / LOAM / SAND) (FILL IN)
1	LOW	1A	857 SF	5	<u>871</u>		<u>CLAY</u>
		1B					
2	MED	2A	229 SF	2	<u>229</u>		<u>CLAY</u>
		2B					
3	TREES	4A	126 LF	2	<u>126</u>		<u>CLAY</u>
		4B					

CLAY SOIL: DO NOT EXCEED 1600 SF / 3 GPM PER SUBZONE. IF TOTAL AREA OF ZONE EXCEEDS 3500 SF, ADD A VALVE.  
 LOAM SOIL: DO NOT EXCEED 1100 SF / 3 GPM PER SUBZONE. IF TOTAL AREA OF ZONE EXCEEDS 2200 SF, ADD A VALVE.  
 SANDY SOIL: DO NOT EXCEED 500 SF / 3 GPM PER SUBZONE. IF TOTAL AREA OF ZONE EXCEEDS 1000 SF, ADD A VALVE.  
 TREES: DO NOT EXCEED 200 LF PER SUBZONE  
 FOR EMITTER FLOW, EMITTER SPACING & ROW SPACING PER SOIL TYPE SEE LEGEND

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NAME: JOHNNY SMITH  
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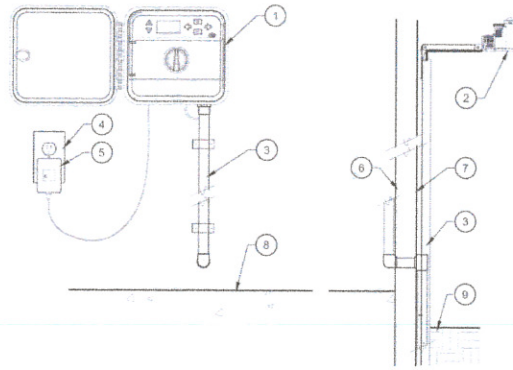
SHEET TITLE:  
 IRRIGATION  
 PLAN  
 NATURAL  
 MED

DATE  
 PERMIT PLAN  
 MAY 18, 2018

**L-2.0**

SHEET  
 OF

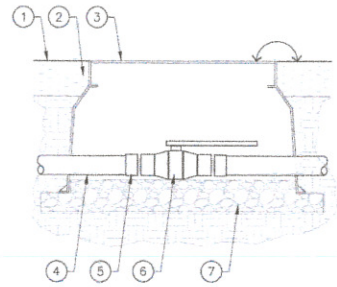




- 1 CONTROLLER MOUNTED ON INTERIOR WALL AT EYE LEVEL
- 2 SOLAR SYNC MOUNTED ON SUITABLE EXTERIOR POST, POLE OR GUTTER IN LOCATION WHERE SENSOR CAN RECEIVE UNOBSTRUCTED EXPOSURE TO SUN AND RAINFALL.
- 3 CONDUIT FOR VALVE CONTROL WIRE AND SOLAR SYNC COMMUNICATION WIRE. SIZE AND TYPE PER LOCAL CODES. MAX TOTAL WIRE DISTANCE 200 FT
- 4 EXISTING GROUNDED OUTLET
- 5 PLUG-IN TRANSFORMER
- 6 INTERIOR WALL
- 7 EXTERIOR WALL
- 8 FINISH GRADE INTERIOR FLOOR
- 9 FINISH GRADE EXTERIOR GRADE

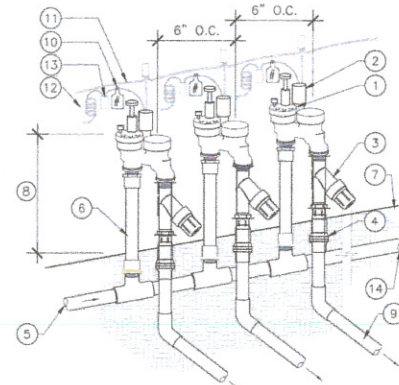
NOTES:  
 1. OWNER'S REPRESENTATIVE TO VERIFY LOCATION IN FIELD  
 2. ALL ELECTRICAL WORK MUST CONFORM TO LOCAL CODES  
 3. DETAIL IS GENERIC  
 4. INSTALL PER MANUFACTURER'S SPECIFICATIONS

**1 SMART CONTROLLER-INTERIOR**  
 SCALE: N.T.S.



- 1 FINISH GRADE
- 2 MULCH
- 3 VALVE BOX
- 4 MAIN LINE
- 5 MALE ADAPTERS
- 6 BRASS BALL VALVE, SIZED TO MATCH PIPE
- 7 FILL BOTTOM OF BOX WITH 3" DEPTH DRAIN ROCK

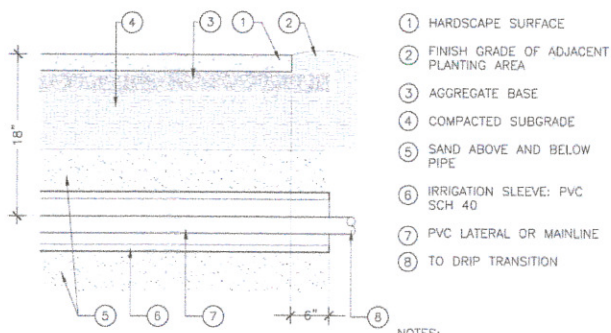
**2 ISOLATION VALVE - BALL VALVE**  
 SCALE: N.T.S.



- 1 ANTI-SIPHON VALVE
- 2 SOLENOID
- 3 FILTER FOR DRIP ZONE VALVE
- 4 PRESSURE REGULATOR FOR DRIP ZONE VALVES
- 5 MAINLINE FROM WATER SUPPLY
- 6 SCHEDULE 80 UV RESISTANT PVC NIPPLES
- 7 FINISH GRADE
- 8 6-12 INCHES MIN ABOVE HIGHEST POINT OF DISCHARGE
- 9 PVC LATERALS TO ZONES
- 10 ID TAG WITH VALVE ZONE NUMBER MATCHED TO CONTROLLER STATION
- 11 WIRES TO CONTROLLER
- 12 30" LENGTH OF COILED WIRE
- 13 WATERPROOF SPLICE
- 14 PROVIDE STUBOUT FOR FUTURE EXPANSION

NOTE: DETAIL IS GENERIC, SEE LEGEND FOR SPECIFIC EQUIPMENT.

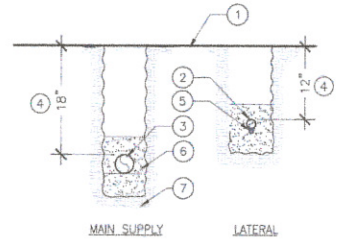
**3 ANTI-SIPHON VALVE MANIFOLD**  
 SCALE: N.T.S.



- 1 HARDSCAPE SURFACE
- 2 FINISH GRADE OF ADJACENT PLANTING AREA
- 3 AGGREGATE BASE
- 4 COMPACTED SUBGRADE
- 5 SAND ABOVE AND BELOW PIPE
- 6 IRRIGATION SLEEVE: PVC SCH 40
- 7 PVC LATERAL OR MAINLINE
- 8 TO DRIP TRANSITION

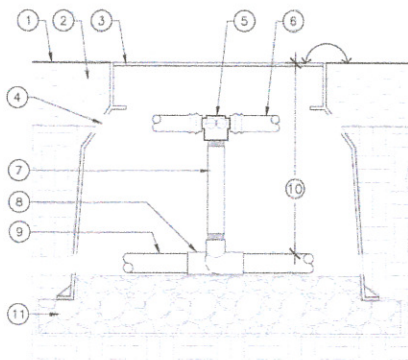
NOTES:  
 1. SIZE SLEEVE MIN 1.5X SIZE OF PIPES BEING SLEEVED

**4 IRRIGATION SLEEVE**  
 SCALE: N.T.S.



- 1 FINISH GRADE
- 2 LATERAL
- 3 MAINLINE SUPPLY
- 4 DEPTH OF PIPE COVER
- 5 WIRING, TYP.
- 6 2" SAND SETTING BED ALL 4 SIDES
- 7 COMPACTED SOIL, TYP.

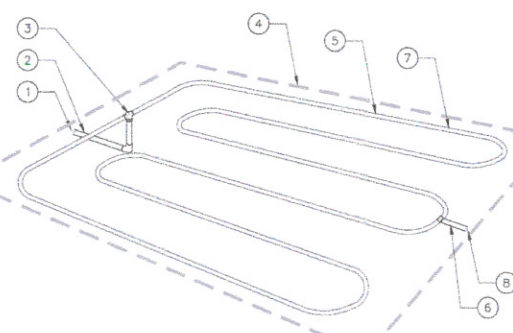
**5 TRENCHING & PIPE COVER**  
 SCALE: N.T.S.



- 1 FINISH GRADE
- 2 MULCH
- 3 10 INCH ROUND VALVE BOX.
- 4 CUT HOLES FOR PIPES TO EXIT WITHOUT KINKING, TYP.
- 5 TEE: PVC TO POLY TUBING
- 6 INLINE EMITTER TUBING
- 7 NIPPLE: SCH 40 LENGTH AS REQUIRED
- 8 PVC TEE (SX/SXT)
- 9 PVC LATERAL
- 10 PIPE COVER, SEE DETAIL
- 11 3 INCH DEPTH DRAIN ROCK

NOTE:  
 1. DETAIL IS GENERIC, SEE LEGEND FOR SPECIFIC EQUIPMENT.  
 2. FOR MULCH DEPTH, PIPE COVER & PIPE SIZE SEE NOTES & LEGEND

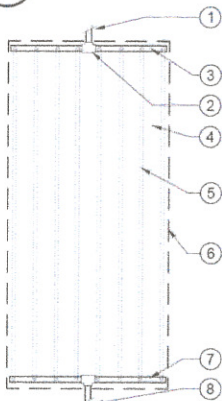
**6 DRIP TRANSITION**  
 SCALE: N.T.S.



- 1 TO VALVE MANIFOLD
- 2 PVC LATERAL
- 3 TRANSITION FROM LATERAL TO DRIP ZONE
- 4 DRIP ZONE
- 5 IN-LINE DRIP TUBING, INSTALL PERPENDICULAR TO SLOPE
- 6 BLANK DRIP TUBING, USE TO EXTEND FLUSH-OUT TO ACCESSIBLE LOCATION
- 7 STAKE TUBING EVERY 2 FT.
- 8 TO FLUSHOUT

NOTES:  
 1. THIS LAYOUT FOR SMALL AREAS.  
 2. DETAIL IS GENERIC, SEE LEGEND FOR SPECIFIC EQUIPMENT.  
 3. MAXIMUM FLOW PER SUBZONE: 3 GPM  
 4. MAXIMUM LENGTH OF TUBING: 200 LF

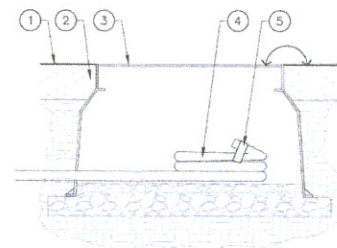
**7 DRIP ZONE LAYOUT - LITE**  
 SCALE: N.T.S.



- 1 TO VALVE
- 2 DRIP TRANSITION, SEE DETAIL
- 3 SUPPLY HEADER
- 4 SEE LEGEND FOR EMITTER AND ROW SPACING
- 5 STAKE TUBING EVERY 2 FT.
- 6 AREA PERIMETER, VARIES
- 7 EXHAUST HEADER
- 8 FLUSHOUT, SEE DETAIL

NOTES:  
 1. THIS LAYOUT FOR MEDIUM AND LARGE AREAS.  
 2. DETAIL IS GENERIC, SEE LEGEND FOR SPECIFIC EQUIPMENT.  
 3. MAXIMUM FLOW PER SUBZONE: 3 GPM  
 4. MAXIMUM LENGTH OF TUBING: 200 LF

**8 DRIP LAYOUT - MULTI-LINE**  
 SCALE: N.T.S.



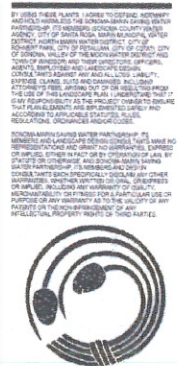
- 1 FINISH GRADE
- 2 MULCH
- 3 VALVE BOX
- 4 BLANK TUBING FED FROM TECHLINE LATERAL COILED 18" TO 24" IN BOX
- 5 FIGURE 8 END FITTING, TLF1GB
- 6 FILL BOTTOM OF BOX WITH 3" DEPTH DRAIN ROCK

NOTE: DETAIL IS GENERIC, SEE LEGEND FOR SPECIFIC EQUIPMENT.

**9 DRIP FLUSH VALVE**  
 SCALE: N.T.S.

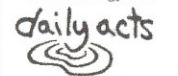
**IRRIGATION NOTES**

1. INSTALLATION TO BE BY CONTRACTOR WITH A VALID CURRENT CALIFORNIA C-27 LICENSE OR BY HOMEOWNER WITH RELEVANT KNOWLEDGE, SKILLS & EXPERIENCE.
2. THE IRRIGATION PLAN IS DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE COMPLETED. IRRIGATION EQUIPMENT OR PIPING MAY BE SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY. OBTAIN APPROVAL OF LAYOUT FROM OWNER'S REPRESENTATIVE PRIOR TO FINAL INSTALLATION.
3. VERIFY LOCATION OF SUBSURFACE UTILITIES, PIPES AND STRUCTURES. NOTIFY THE OWNER'S REPRESENTATIVE SHOULD UTILITIES OR OTHER WORK NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS.
4. CAREFULLY INVESTIGATE EXISTING FIELD CONDITIONS AND NOTIFY OWNER'S REPRESENTATIVE OF ANY POTENTIAL CONFLICT WITH DESIGN.
5. CONFIRM ADEQUATE GPM AT POINT OF CONNECTION PRIOR TO START OF WORK.
6. CONFIRM MINIMUM STATIC PRESSURE AT THE POINT OF CONNECTION PRIOR TO START OF WORK.
7. NOTIFY OWNER'S REPRESENTATIVE IF STATIC PRESSURE IS LOWER THAN REQUIRED. IF STATIC PRESSURE IS HIGHER THAN 75 PSI, INSTALL A WILKINS #600 PRESSURE REGULATOR DOWNSTREAM OF BACKFLOW PREVENTER. ADJUST OUTLET PRESSURE TO 55 PSI.
8. MAKE IRRIGATION POINT OF CONNECTION AS INDICATED ON PLAN AND COORDINATE WITH OTHER WORK AS REQUIRED. EXACT LOCATION OF TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
9. INSTALL IRRIGATION CONTROLLER IN LOCATION APPROVED BY OWNER'S REPRESENTATIVE. ENSURE 120 VOLT A.C. ELECTRICAL SUPPLY IS PROVIDED FOR IN IMMEDIATE VICINITY. INSTALL AS DETAILED AND PER MANUFACTURER'S INSTRUCTIONS. GROUND CONTROLLER AND CONFORM TO LOCAL CODES. MOUNT WEATHER SENSOR ON EXTERIOR WALL OR GUTTER WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
10. BACKFLOW PREVENTION IS REQUIRED. IF NOT PROVIDED BY ANTI-SIPHON VALVES THEN CODE APPROVED BACKFLOW PREVENTION DEVICE MUST BE INSTALLED.
11. INSTALL ISOLATION VALVE AT POC UPSTREAM OF BACKFLOW PREVENTION (ANTI-SIPHON VALVES)
12. ENSURE THAT ALL COMPONENTS ARE CONNECTED AND OPERATIONAL
13. PROVIDE PVC SCH 40 SLEEVES FOR ALL PIPING AND WIRE UNDER PAVING. COORDINATE WITH CONCRETE CONTRACTOR INSTALL SLEEVES PRIOR TO POURING CONCRETE. EXTEND SLEEVE 6 INCHES BEYOND EDGE OF PAVING. ENSURE THAT SLEEVES ARE SIZED ADEQUATELY TO CONTAIN PIPES BEING SLEEVED.
14. ENSURE ADEQUATE PIPE SIZE TO PROVIDE REQUIRED FLOW.
15. PIPE COVER: SEE DETAIL
16. PIPE SIZE: 0-6 GPM: 3/4" PIPE; 7-12 GPM: 1" PIPE;
17. INSTALL ALL PLASTIC PIPING IN TRENCHES IN A SERPENTINE MANNER.
18. PROVIDE VALVE BOXES FOR: ISOLATION VALVE, DRIP TRANSITION AND FLUSHOUT VALVE.
19. VALVE BOXES: SET PARALLEL TO EACH OTHER AND PERPENDICULAR TO ADJACENT EDGE. SET WITH SUFFICIENT CLEARANCE ABOVE GRADE SO THAT FINAL MULCH GRADE IS FLUSH WITH EDGES OF BOXES. PROVIDE BOLT DOWN LIDS FOR EACH BOX.
20. INSTALL ALL WIRING IN ACCORDANCE WITH ALL APPLICABLE CODES.
21. USE COPPER WIRE WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. USE WHITE INSULATING JACKET FOR COMMON GROUND WIRE. USE INSULATING JACKET OF COLOR OTHER THAN WHITE FOR CONTROL WIRE. TAPE AND BUNDLE WIRING AT 10 FOOT INTERVALS.
22. CHECK VALVES: INSTALL CHECK VALVES ON LATERAL LINES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE. ENSURE THAT IN-LINE DRIP TUBING HAS CHECK VALVES EMBEDDED INTO EMITTERS.
23. ENSURE THAT ALL EQUIPMENT IS SIZED CORRECTLY BASED ON EXISTING SITE CONDITIONS AND HYDRAULICS.
24. VERIFY SOIL TYPE AND USE APPROPRIATE EMITTER SIZE AND SPACING.
25. INSTALL DRIP TUBING AS SHOWN IN DETAIL AND PER MANUFACTURER'S SPECIFICATIONS.
26. DO NOT USE SMALL DIAMETER DISTRIBUTION TUBING.
27. DO NOT INSTALL POST MANUFACTURED BUTTON EMITTERS INTO IN-LINE TUBING.
28. REVIEW DRIP LAYOUT WITH OWNER'S REPRESENTATIVE PRIOR TO COVERING WITH MULCH
29. STAKE DRIP TUBING IN PLACE @ 2 FT O.C. MAX
30. MAINTAIN A 3" MIN. DEPTH OF MULCH COVER OVER DRIP TUBING.
31. MAXIMUM LENGTH OF DRIP TUBING IS 200' IN ANY DIRECTION FROM WATER SOURCE.
32. OPEN LINE ENDS AND FLUSH THOROUGHLY BEFORE INSTALLATION OF END FLUSH CAPS.
33. FLUSH MAINLINES AFTER INSTALLING RISERS AND PRIOR TO INSTALLING OR RECONNECTING TO VALVES.
34. FLUSH LATERALS AFTER INSTALLING RISERS AND PRIOR TO INSTALLING TUBING.
35. PRESSURE TEST PRIOR TO BACKFILLING, PROVIDE RESULTS TO OWNER'S REP.
36. FILL ALL EXCAVATIONS WITH COMPACTED BACKFILL. IN TWO MECHANICALLY COMPACTED LIFTS. REPAIR ALL SETTLED TRENCHES.
37. PERFORM COVERAGE TEST. ADJUST SYSTEM AS NEEDED TO PROVIDE FULL COVERAGE AND TO AVOID RUNOFF.
38. AFTER COMPLETION PROVIDE AS-BUILT PLANS.
39. PROVIDE CONTROLLER SCHEDULE.
40. SCHEDULE THE TREE ZONE TO RUN AT A LOW FREQUENCY AND LONG DURATION TO PROVIDE DEEP WATERING FOR THE TREES. ADJUST SCHEDULE PER WEATHER AND SEASON.
41. SCHEDULE THE SHRUB ZONES TO RUN AT A HIGH FREQUENCY AND SHORT DURATION TO ESTABLISH THE NEW SHRUBS. ADJUST THE SCHEDULE AS THE SHRUBS BECOME ESTABLISHED AND PER WEATHER AND SEASON.
42. THE DESIGN INTENT IS TO PROVIDE THE MINIMUM AMOUNT OF WATER TO SUSTAIN HEALTHY PLANT GROWTH AND TO AVOID RUN-OFF, LOW HEAD DRAINAGE AND OVERSPRAY.
43. ENSURE THAT CONTROLLER SCHEDULE IS ADJUSTED SEASONALLY AT A MINIMUM
44. RUN SYSTEM TO CHECK FOR LEAKS AND REPAIR THEM SEASONALLY AT A MINIMUM.



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SHEET TITLE:  
 IRRIGATION  
 DETAILS &  
 NOTES

DATE  
 PERMIT PLAN  
 MAY 18, 2018

*L-2.82*

SHEET  
 OF