CHILD FRIENDLY LANDSCAPE TYPICAL WATER SMART RESIDENTIAL PLAN



FRONTSECTION

SCALE 1/4"=1'-0"

LANDSCAPE ARTIST STATEMENT

My approach to designing a water smart, kid friendly environment was to make the space both interesting and low maintenance. This yard is designed with small children in mind with three different areas; an active play area, a bicycle path and a sandbox. While the path can remain for strolling through the garden, the sandbox can convert into another patio or a fire pit for future enjoyment. There is also a small lawn area. Yes, you can still have a lawn and be water-wise. The key is to make sure the lawn is a reasonable size and is in a usable spot on the property. This lawn is just large enough to play some games and positioned at the back yard next to the patio extending the usable area. Smart planting will help keep down maintenance which gives you more time to spend with your family. By designing a yard with the mature sizes of plants in mind, I have eliminated the necessity of pruning shrubs back from walkways and avoided the very common practice of pruning shrubs into squares and globes. The planting of this yard utilizes ornamental grasses and Mediterranean flora as well as fun-looking plants like the Ponytail Palm and Matilijia Poppy (also called the Fried-egg Bush), all of which are low water usage and require low maintenance. This yard is a great place to relax and play and it can grow and mature as your family does.



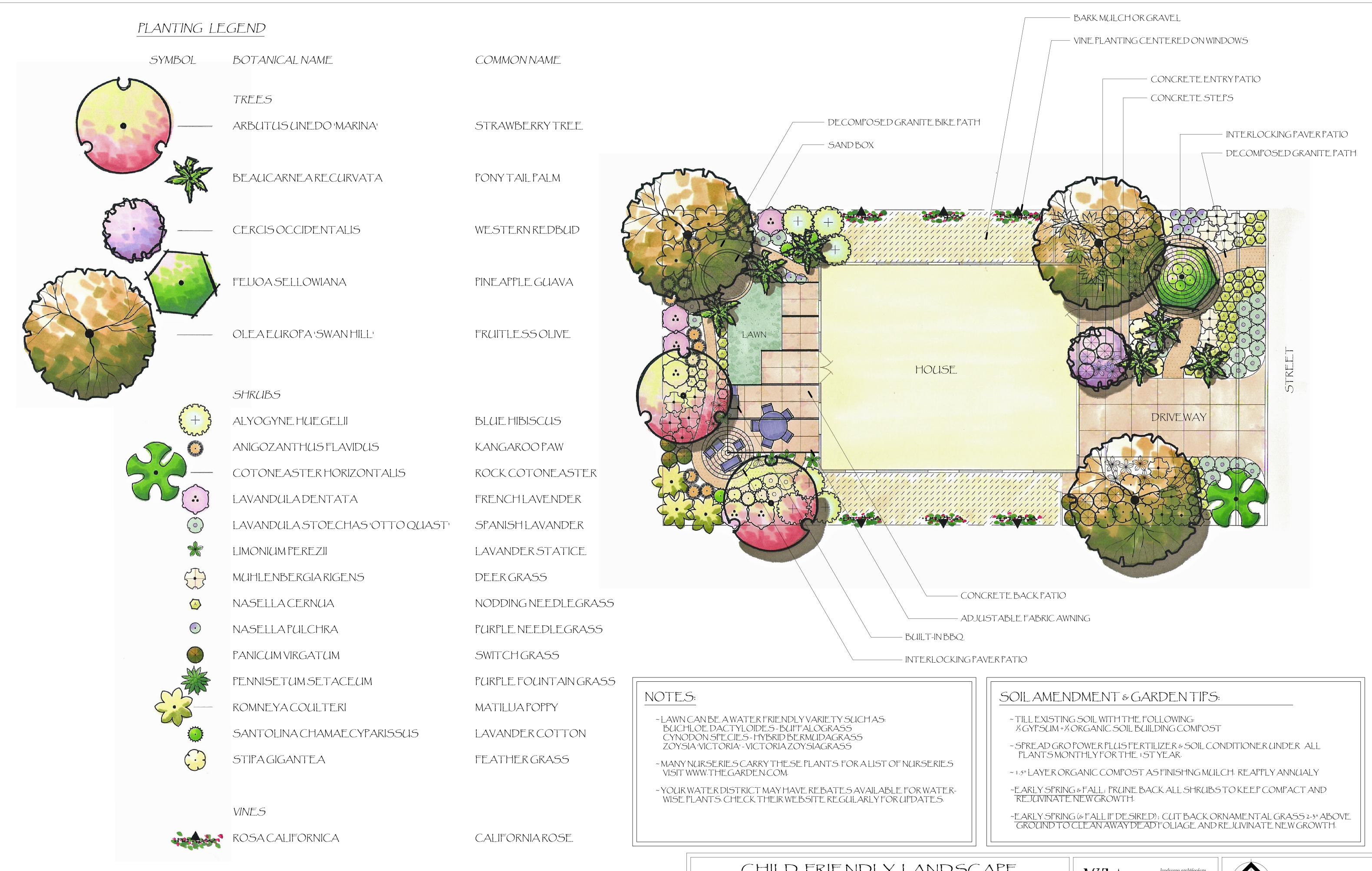


REARSOUTHSECTION

SCALE 1/4"=11-0"

CHILD FRIENDLY LANDSCAPE
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INFORMATION SHEET

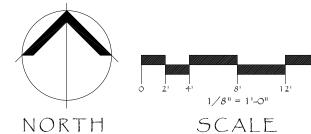




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PLANTINGPLAN



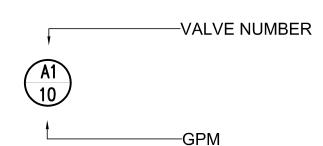




IRRIGATION MATERIAL LEGEND

	SYN	/IBOL													
Q	Т	Н	F	MANUFACT.	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS							
				RAIN BIRD	XERI-BIRD 8 MULTI-OUTLET EMISSION DEVICE, MODEL XBD-80, USING XERI-BUG EMITTER, MODEL XB-20 (2 GPH PER OUTLET); TWO PER SHRUB AND FOUR PER TREE; INSTALL EMISSION DEVICE WITHIN SEB-6X EMITTER BOX, WITH DT-025 DISTRIBUTION TUBING (5 FT. MAX LENGTH), TS-025 TUBING STAKE (ONE PER TUBE/EMITTER), AND ONE DBC-025 BUG CAP PER EMITTER/DISTRIBUTION TUBE	2.0-16.0 GPH NG	20	N/A							
\bigcirc	\Diamond	\ominus	\Diamond	RAIN BIRD	1806-SAM-PRS POP-UP TURF HEAD W/ RAIN BIRD 8-Q/T/H/F NOZZLES	.21, .27, .41, .82	25	7 FT							
(•	=	•	RAIN BIRD	1806-SAM-PRS POP-UP TURF HEAD W/ RAIN BIRD 12-Q/T/H/F NOZZLES	.60, .80, 1.20, 2.40	25	11 FT							
				RAIN BIRD	LFV100 (1") LOW FLOW VALVE. INSTALL RAIN BIRD PRB-QKCHK-100-200M (1") PRESSURE REGULATIN THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE.	, QUICK-CHECK BASKET FILTER ON									
			•	RAIN BIRD	100-DVF (1") REMOTE CONTROL VALVE. WITH AG. PRODUCTS 4E 200 MESH WYE FILTER (1" SIZE FOR SYSTEMS LESS THAN 18 GPM, 11/2 SIZE FOR ZONES LARGER THAN 18 GPM) AND A SENNINGER PMR-30-MF 1" PRESSURE REGULATOR FOR SYSTEMS LESS THAN 15 GPM, UPR-40HF 11/4" REGULATOR FOR SYSTEMS LARGER THAN 15 GPM.										
			С	TORO	TIS-06-ID TORO INTELLISENSE 6 STATION CONTROLLER. MOUNT INSIDE GARAGE ON EXTERIOR WAL	L.									
			$\langle R \rangle$	TORO	TWRS TORO WIRELESS RAIN SENSOR. MOUNT ON GUTTER.										
				AS APPROVED	PVC PIPE 3/4" CL. 200 AS LATERAL LINES 12" BELOW GRADE										
				AS APPROVED	PVC PIPE SCH 40 AS MAINLINE. CONNECT TO HOUSE WATER SUPPLY DOWNSTREAM OF BACKFLOW 24" BELOW GRADE	PREVENTER AND METE	ĒR								
				AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE, ETC.										
				AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)										
				3M	DBY DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS										
				K.B.I.	KSC-XXX-S SWING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV WHEN RCV IS LOWER T	HAN THE SPRINKLERS									

KC-XXX-S SPRING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV IMMEDIATELY ABOVE FIRST LATERAL LINE TEE,

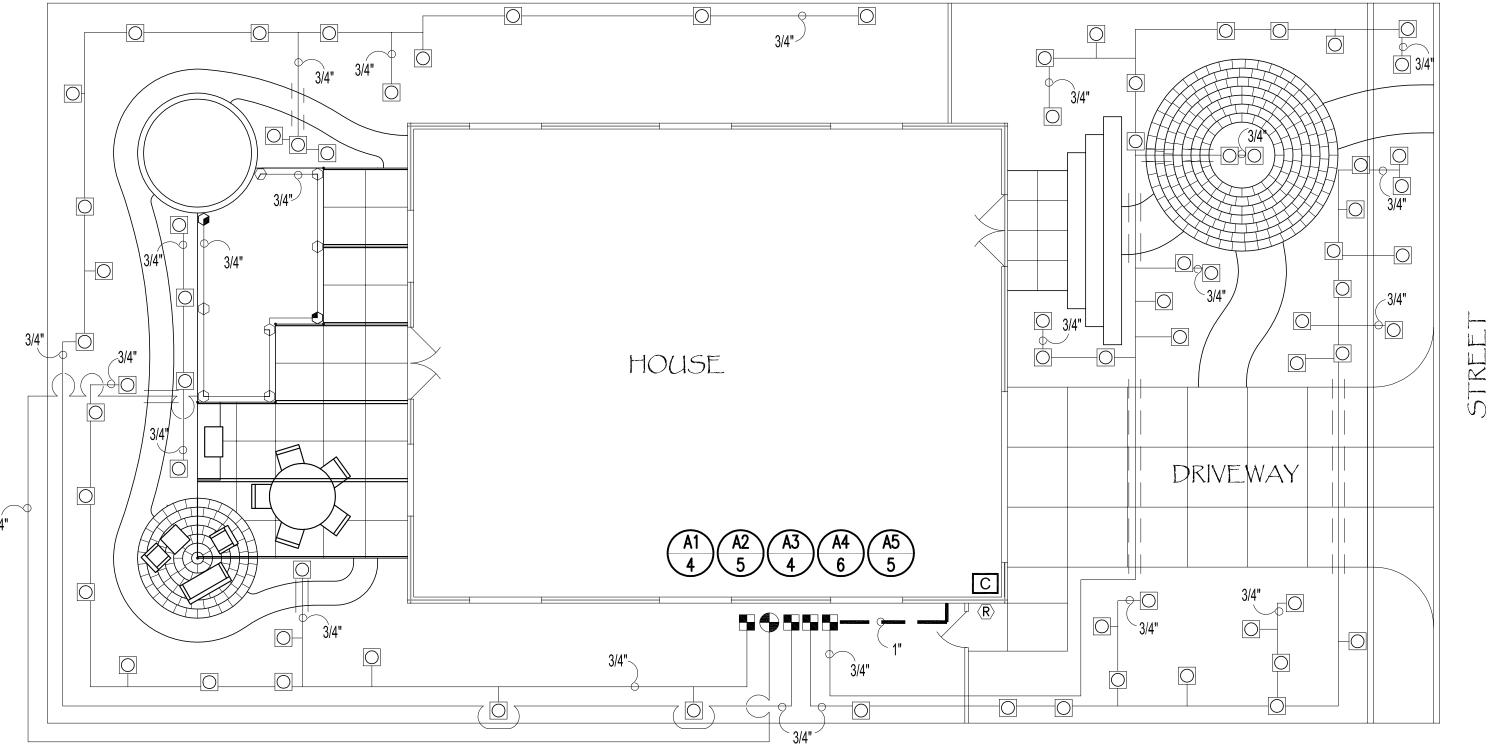


WHEN RCV IS HIGHER THAN THE SPRINKLERS

K.B.I.

NOTES:

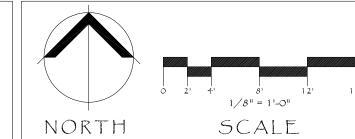
- ~ ALL IRRIGATION SHOULD BE INSTALLED PER THE MANUFACTURERS INSTRUCTIONS: THESE ARE AVAILABLE ON THE MANUFACTURER'S WEBSITES AND AT IRRIGATION SPECIALTY STORES.
- ~IRRIGATION EQUIPMENT IS BEST PURCHASED FROM AN IRRIGATION SPECIALTY STORE, SUCH AS HYDROSCAPE. TO ENSURE THAT YOU GET THE RIGHT EQUIPMENT AND THE PROPER QUANTITIES BRING YOUR PLAN IN TO THE STORE.
- ~YOUR WATER DISTRICT MAY HAVE REBATES AVAILABLE FOR WATER-WISE IRRIGATION EQUIPMENT. CHECK THEIR WEBSITE REGULARLY FOR UPDATES.

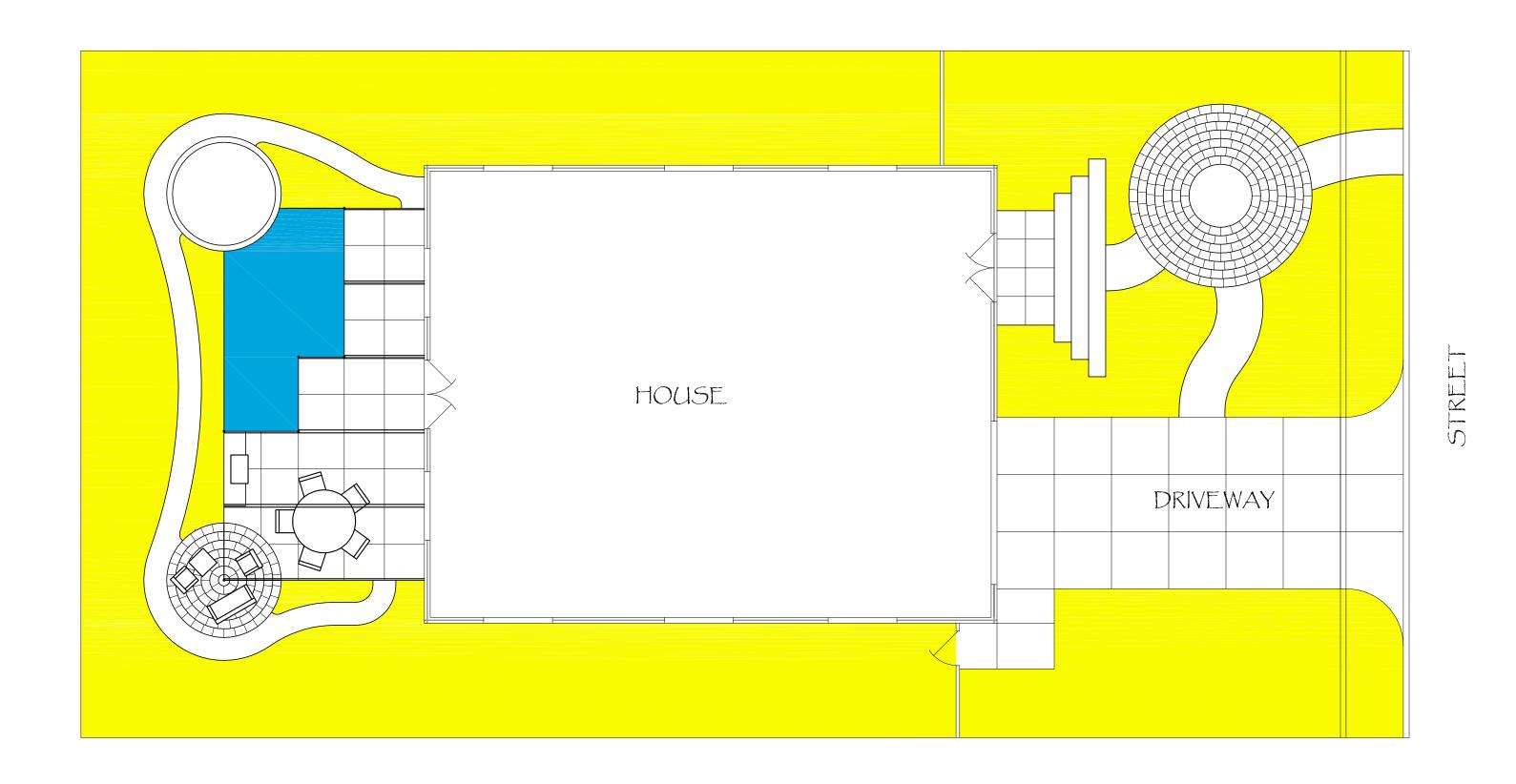


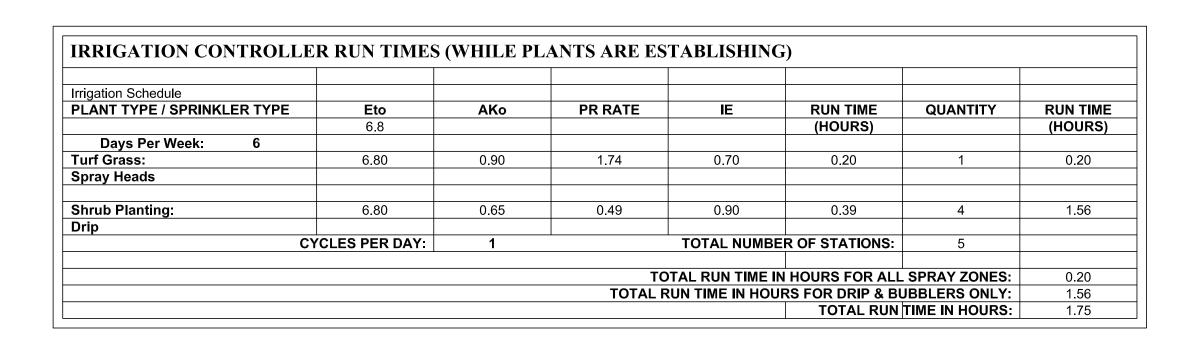
CHILD FRIENDLY LANDSCAPE
TYPICAL WATER SMART RESIDENTIAL PLAN

IRRIGATIONPLAN





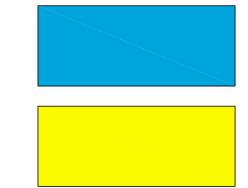




				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Irrigation Sched	ule		ETo/Mo	2.1	2.8	3.8	4.7	5.8	6.7	6.8	6.5	5.4	3.8	2.5	1.9
POC / Control	er	Α	ETo/Day	0.07	0.10	0.12	0.16	0.18	0.22	0.22	0.21	0.18	0.12	0.08	0.06
Туре	AKc	Pr Rate	IE												
Turf Spray															
	0.8	1.74	0.7	2.7	3.9	4.8	6.2	7.1	8.8	8.6	8.3	7.1	4.8	3.3	2.4
4	Qty. of Valves		Total Run Times	3	5	5	6	7	9	9	8	7	5	3	2
Drip															
-	0.8	3	1	1.1	1.6	2.0	2.5	2.9	3.6	3.5	3.4	2.9	2.0	1.3	1.0
1	Qty. of \	Valves	Total Run Times	4	6	8	10	12	14	14	13	12	8	5	4
Total Valves:	5	ТОТ	L TAL RUN TIMES (HRS):	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0.1
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC

HYDROZONE LEGEND

SYMBOL DESCRIPTION



WETAREA (LAWN)

DRIP IRRIGATION AREA

LANDSCAPE IRRIGATION WATER ANALYSIS

PROJECT:

Residential Typical Water-Wise Plan
Child Friendly Landscape

Southern California
Project ETo: 57.33

MAXIMUM APPLIED WATER ALLOWANCE: (GALLONS PER YEAR)

MWA=(ETo)x(0.8)x(Total Sq. Ft.)x(.62)

 $57.33 \times 0.8 \times 2,495 \times 0.62 = 70,947$ Gal./Yr 0.22 Acre Feet/Yr.

Total Project Acreage 0.15

ESTIMATED APPLIED WATER USED: (GALLONS PER YEAR)

EWU=(ETo)x(Plant Factor)x(Hydrozone Sq. Ft.)x(.62)

Irrigation Efficiency

HYDROZONE # 1: (Shrub area with Drip)

 $\frac{57.33 \times 0.4 \times 2,330 \times 0.62}{0.9} = 36,808 \text{ Gal./Yr} \qquad 0.11 \text{ Acre Feet/Yr.}$

HYDROZONE # 2: (Lawn area with Spray)

57.33 x 0.9 x 165 x 0.62 =

= 5,865 Gal./Yr 0.02 Acre Feet/Yr.

0.9

MAXIMUM APPLIED WATER 70,947 Gal./Yr 0.22 Acre Feet/Yr.

TOTAL ESTIMATED WATER USE: 42,673 Gal./Yr 0.13 Acre Feet/Yr.

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MAWA CALCULATIONS & IRRIGATION ZONING



