

ATTACHMENT A (DRAFT) WATER EFFICIENT WORK SHEET

PROJECT NAME:

Colorado Blvd. Streetscape Improvements Rosemead Blvd. to Michillinda Ave.

PROJECT LOCATION:

Pasadena

TOTAL LANDSCAPE AREA:

187,666 sq.ft.

Maxium Applied Water Allowance (MAWA) MAWA = (ETo) (0.62) [(0.7 x LA) + (0.3 x SLA)]MAWA≒ Maximum Applied Water-Allowance

ETo = Reference Evapo.....

0.62 = Conversion factor (to gallons per square foot)

0.7 = ET Adjustment Fector (ETAF)

LA = Landscaped Area includes

0.3 = Additional ET Adjustment Factor for Special Landscape Area (1.0 - 0.7 = 0.3)

SLA - Portion of Landsape Area identified as Special Landscape Area - see Definitions (square feet)

Applicant to fill in boxes below

187,666 Landscape Area including Special Landscape Area/SLA (square feet) 145,640 Portion of Landscape Area identified as Special Landscape Area (square feet)	52,3	ETo (reference Evapotranspiration from Appendix A (Inches per year)	Regional Services
145,640 Portion of Landscape Area identified as Special Landscape Area (square feet)	187,666	Landscape Area including Special Landscape Area/SLA (square feet)	
 	145,640	Portion of Landscape Area identified as Special Landscape Area (square	e feet)

	ETo	ETAF .	AREA (s.f.)	Conversion	MAWA	
MAWA for LA	52.3 x	0.7 x	187,666 x	0.62 =	4,259,680	
MAWA for SLA*	52.3 x	0.3 x	145,640 x	0.62 =	1,416,757	Action after the
Total MAWA	1 14.1			A the state of the	5,676,437 (gallons per i

Estimated Total Water Use (ETWU)

ETWU = (ETo) (0.62) [(PF x HA) / IE + SLA)]

ETWU = Estimated . . .

ETo = Reference Evapo.....

0.62 = Conversion factor (to gallons per square foot) .

PF = Plant Factor from WUCOLS (see Definitions)

HA = Hydrozone Area - planting area separated to high, moderate, low and very low water usea areas (square feet)

IE = Irrigation Efficiency - see Chart ** (minimum 0.71)

ETWU arrived from Hydrozone Table below=

5,298,326 gallons per year

HYDROZONE TABLE

		plant	hydr o zone		% of	irrigation	Hydro-
	plant water	factor (PF)	area (HA)	PFxHA	landscape	efficiency	zone
hydrozone	use type	(see table B)	(square ft.) .	. (square ft.)	area (LA)	1E	ETWU
1	cool/turf	0.8	0	0	0%	0.71	(
2	warm/turf	0.6	. 0	0	0%	0.71	(
3	high water	0.8	0	0	0%	0.71	(
4	mod.water	0.5	<i>-</i> 0	0	0%	0.90	(
5	low water	0.3	42,026	12,608	22%	0.71	575,80
6	low water	0.2	0	0	0%	0.90	
7	very low	0.1	<i>\</i> · 0	0	0%	0.90	
					Subt	otal ETWU	575,804
8	SLA		145,640		78%		4,722,52
		TOTAL	187,666		100%		5,298,320

Table A - PF (Plant Factor)

Cool Season Turf*	0.8
Warm Season Turf**	0.6
High Water Using Plants	0.8 can be between 0.7 - 0.9
Moderate Water Using Plants	0:5 can be between 0.4 - 0.6
Low Water Using Plants	0.2 can be between 0.1 - 0.3
Very Low water Using Plants	0.1 below 0.1

^{*} species include tall fescue, ryegrass, bentgrass and kentucky bluegrass

Table B - IE (Irrigation Efficiency)

Pop-up spray heads	0.71
Rotor neads	″∂5 ′ ∈0. 7 5
Microspray	0.75
Bubblers	8.0
Drip emitters	0.85
Subsurface imgation	0.9

note: adjustment can be made based on exact type of equipment

^{**} species include bermudagrass, zoysizgrass, st. augustinegrass