

DESERT WATER AGENCY

**SUBMITTAL REQUIREMENTS FOR
LANDSCAPE CALCULATION PLAN CHECK**

LANDSCAPE PLAN CHECK REQUIREMENTS

1. Submit landscape plans digitally in pdf format to planning@dwa.org
 - a. Water use calculations and variables to be set using the Model Water Efficient Landscape Ordinance from California Code of Regulations Chapter 2.7 (CCR)
 - b. Calculations to be provided using the Water Efficient Landscape Worksheet from Appendix B of CCR (see attached)
 - c. ETo zone to be set established from Coachella Valley Water District ETo Map CVWD Dwg. No. 29523 (see attached)
2. Payment for plan check \$280.00 cash or check only, payable to "Desert Water Agency"

NEW IRRIGATION WATER METER REQUIREMENTS

3. Site plot plan
 - a. Proposed size and location of irrigation water meter
 - b. Maximum gallon per minute flow required from water meter
4. Written request for cost estimate
5. Completed application for service (see attached).

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) _____

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^e
Regular Landscape Areas							
				Totals	(A)	(B)	
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	
						Maximum Allowed Water Allowance (MAWA)^g	

^a**Hydrozone #/Planting Description**
E.g
 1.) front lawn
 2.) low water use plantings
 3.) medium water use planting

^b**Irrigation Method**
 overhead spray
 or drip

^c**Irrigation Efficiency**
 0.75 for spray head
 0.81 for drip

^d**ETWU (Annual Gallons Required) =**
 $Eto \times 0.62 \times ETAF \times Area$
 where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^e**MAWA (Annual Gallons Allowed) =** $(Eto) (0.62) [(ETAF \times LA) + ((1-ETAF) \times SLA)]$
 where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

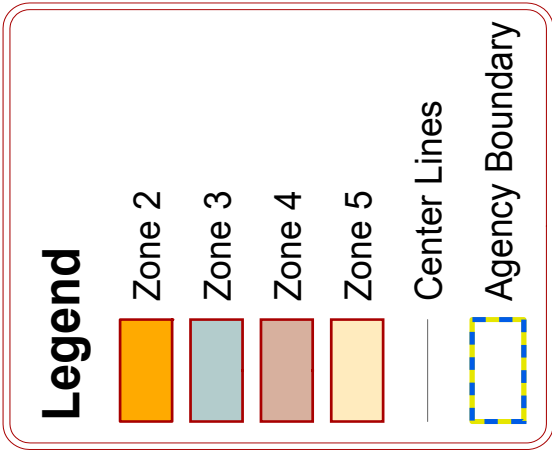
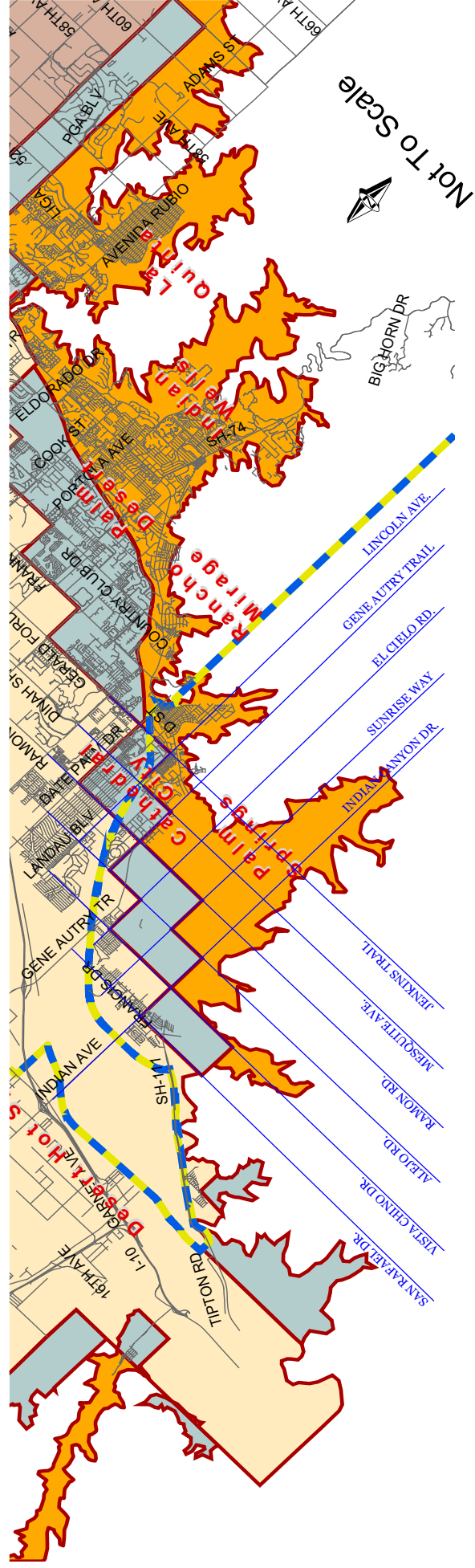
Regular Landscape Areas

Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	B ÷ A

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	(B+D) ÷ (A+C)



Explanations of ETo Zones Symbology

Zone #2: North-facing coves and the open desert or the south-facing cove areas of the north valley: Somewhat sheltered from prevailing winds and with exposure to higher local humidity from irrigated landscapes means low water consumption. North valley coves are mountain shaded, sheltered from prevailing winds and higher elevations, but are south-facing and heat absorbing. Annual water consumption(ETo) = 58"

Zone #3: Upper valley open desert border zone, lower valley upper elevation zone or lower valley afternoon mountain shade zones with moderate prevailing winds and blowing sand. Annual water consumption(ETo) = 64"

Zone #4: Lower valley open desert agricultural zone with moderate prevailing winds and below sea level elevations. Annual water consumption(ETo) = 76"

Zone #5: Upper valley high wind and blowing sand zone. Annual water consumption = 83"