



1 IRRIGATION PLAN
1" = 30'-0"

Maximum Applied Water Allowance (MAWA)

$(Eto)(0.62)[(0.45 \times LA)(\text{Landscape Area}) + (0.55 \times SLA)(\text{Special Landscape Area})] = 1,313,099$

Eto =	44.7
Factor =	0.62
LA =	105,384
SLA =	0

Water Use Percentage of Area

No Water Area	0	0.0%
Low Water Area	105,384	100.0%
Mod. Water Area	0	0.0%
High Water Area	0	0.0%
Total Area	105,384	

No and Low water area = 100.0%

Estimated Total Water Use (ETWU)

$(Eto)(0.62)(PF \times HA / IE) + SLA = 1,152,432$

Hydrozone Type	Valve Number	Irrigation Method	Plant Use Type	Hydrozone Area (HA)	Percent of Landscape	Plant Factor (PF)	Special Landscape Area (SLA)	Irrigation Efficiency (IE)	PF x HA	ETWU	MAWA	Over/MAWA	App. Rate In./Hr.
Hydroseed	1	rotor	Low	8,025	7.6%	0.3	0	0.75	2408	88,882	99,993	11,110	1.76
Trees	2	Drip	Low	176	0.2%	0.3	0	0.85	53	1,720	2,193	473	1.76
Hydroseed	3	rotor	Low	8,081	7.7%	0.3	0	0.75	2424	89,503	100,690	11,188	1.76
Hydroseed	4	rotor	Low	8,622	8.2%	0.3	0	0.75	2587	95,495	107,431	11,937	1.76
Hydroseed	5	rotor	Low	8,941	8.5%	0.3	0	0.75	2682	99,028	111,406	12,378	1.76
Trees	6	Drip	Low	192	0.2%	0.3	0	0.85	58	1,876	2,392	516	1.76
Low Water Shrubs	7	Drip	Low	1,747	1.7%	0.3	0	0.85	524	17,073	21,768	4,695	1.76
Low Water Shrubs	8	Drip	Low	1,576	1.5%	0.3	0	0.85	473	15,402	19,637	4,235	1.76
Low Water Shrubs	9	Drip	Low	1,517	1.4%	0.3	0	0.85	455	14,825	18,902	4,077	1.76
Hydroseed	10	rotor	Low	8,539	8.1%	0.3	0	0.75	2562	94,575	106,397	11,822	1.76
Hydroseed	11	rotor	Low	8,010	7.6%	0.3	0	0.75	2403	88,716	99,806	11,090	1.76
Trees	12	Drip	Low	336	0.3%	0.3	0	0.85	101	3,284	4,187	903	1.76
Low Water Shrubs	13	Drip	Low	2,095	2.0%	0.3	0	0.85	629	20,474	26,104	5,630	1.76
Low Water Shrubs	14	Drip	Low	1,656	1.6%	0.3	0	0.85	497	16,184	20,634	4,450	1.76
Hydroseed	15	rotor	Low	11,611	11.0%	0.3	0	0.75	3483	128,600	144,675	16,075	1.76
Low Water Shrubs	16	Drip	Low	1,526	1.4%	0.3	0	0.85	458	14,913	19,014	4,101	1.76
Trees	17	Drip	Low	336	0.3%	0.3	0	0.85	101	3,284	4,187	903	1.76
Hydroseed	18	rotor	Low	19,289	18.3%	0.3	0	0.75	5787	213,639	240,344	26,705	1.76
Trees	19	Drip	Low	176	0.2%	0.3	0	0.85	53	1,720	2,193	473	1.76
Hydroseed	20	rotor	Low	12,933	12.3%	0.3	0	0.75	3880	143,242	161,147	17,905	1.76
				105,384			0			1,152,432	1,313,099	160,667	

IRRIGATION LEGEND

Description	MANUFACTURER	Item Number	Pop Height	Misc. Info.	GPM	PSI	Radius
Part Circle Rotor	Rainbird	5012-PC-SAM-SS	12"	1.5 Nozzle	1.7	45	35
Part Circle Rotor	Rainbird	5012-PC-SAM-SS	12"	2.5 Nozzle	2.5	45	37
Part Circle Rotor	Rainbird	5012-PC-SAM-SS	12"	3.0 Nozzle	3.1	45	40
Part Circle Rotor	Rainbird	5012-PC-SAM-SS	12"	5.0 Nozzle	5.1	45	45
Tree Emitter Layout	See details						
Root Watering System	Rainbird	RWS (see tree emitter detail)		18", PCT-10 Emitter			
Emitter	Rainbird	PC-05		5 gph			
Controller	Rainbird	ESP-LXD		w/ ET Manager Cartridge and Remote			
Flow Sensor	CST	FDL-T15-001		1.5" Flow Meter	1.8-108		
Backflow Preventer	See Civil drawings						
Pressure Regulator	Wilkins	500XL		1.5" If Needed			
Filter	Amiad	Super 1.5"					
Control Valve	Griswold	2000 Series					
Emitter Control Valve	Griswold	2000 Series					
Master Valve	Griswold	2000 Series		Normally Closed, line size			
Quick Coupling Valve	Rainbird	44NP					
Emitter Flush Valve	Netafim			Automatic Flush			
Emitter Air Relief Valve	Netafim			At all high points of emitter zones			
Emitter Pop-up Indicator	Rainbird	OPERIND		One at end of each zone			
Main Line Pipe	Schedule 40						
Lateral Line Pipe	Schedule 40						
In Line Emitter Tubing	Rainbird	XFS-09-18 Sub-Surface Dripline		18" pipe spacing	0.9	GPH	
Drip Line Header	Rainbird	XQP-10 Dripline Header					
Sleeve	Schedule 40	w/ size					
Controller / Station No.							
GPM / Zone							
Valve Size							

Note: 1. Install all rotor heads 2' from sidewalks and parking paving

