

# GARDEN ART

INTERNATIONAL



SurfaceFlow™ Irrigation  
Systems Eliminate Runoff  
— and More.



SurfaceFlow™ irrigation system is designed for areas where runoff, water conservation and increased pending legislation area an issue. This patented system reduces water use by 25% - 40%, an virtually eliminates water runoff.

SurfaceFlow™ systems can be designed to accommodate any topography, turf grass and soil condition. Installation is easier than conventional irrigation systems.



**SurfaceFlow™ Reduces:** Water waste • Overspray • Evaporation  
• Water runoff • Pollution • Hardscape damage • Maintenance costs  
• Head replacement • Liability

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## The Heart of the System



SurfaceFlow™ systems can also be designed to accommodate shrub applications and planting beds, either in the original design or as a retrofit.

### Project References:

- |                                    |                        |
|------------------------------------|------------------------|
| <b>The Irvine Company</b>          | City of Indio          |
| <b>Leisure World</b>               | City of Tustin         |
| <b>VA Medical Center</b>           | City of Monrovia       |
| <b>Cal Poly Pomona</b>             | City of Newport Beach  |
| <b>Fullerton Community College</b> | City of Ontario        |
| <b>Eastern Water District</b>      | City of Paramount      |
| <b>Metropolitan Water District</b> | City of Pasadena       |
| <b>City of Anaheim</b>             | City of Santa Ana      |
| <b>City of Barstow</b>             | City of Santa Barbara  |
| <b>City of Diamond Bar</b>         | City of San Bernardino |
| <b>City of Fountain Valley</b>     | City of Santa Monica   |
| <b>City of Indian Wells</b>        |                        |

For additional references please refer to our website.



Step One: Trenching



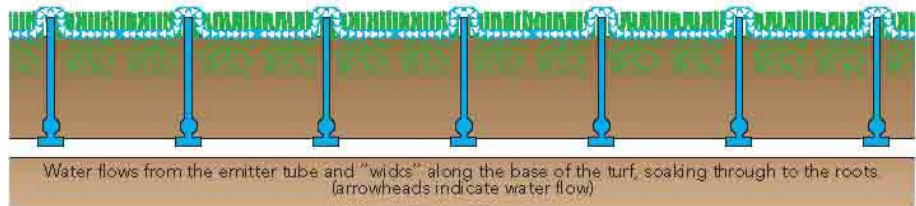
Step Two: Installation



Step Three: Backfill



Step Four: Trimming



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	TURF		SHRUBS		TREES ONLY	
	CLAY & LOAM SOIL	SANDY SOIL	CLAY & LOAM SOIL	SANDY SOIL	AMENDED LOAM WITH SOME SAND	
FLOW	5 GPH	10 GPH	5 GPH	10 GPH	7 GPH	7 GPH
EMITTER INTERVAL	36"	36"	36"	36"	36"	36"
ROW SPACING	24"	24"	30"	24"	--	30"
PIPE DEPTH	6" MIN.	6" MIN.	6" MIN.	6" MIN.	6" MIN.	6" MIN.
APPLICATION RATE (INCHES / HOUR)	0.85	1.7	0.85	1.7	1.25	1.25
WATERING TIME (MINUTES)	*35 MIN.	18 MIN.	** (SEE BELOW)		26 MIN.	

**NOTES:**

1. RUN TIME VARIES WITH PLANT MATERIAL AND ROOT DEPTH
2. RUN TIME PER 6" OF DEPTH FOR WARM SEASON TURF VARIETIES.
3. THIS SYSTEM IS DESIGNED TO A 20 PSI MIN. / 30 PSI MAXIMUM.

**PIPE RUN LENGTH MAXIMUMS**

1. 5 GPH - 120 FT.
2. 7 GPH - 90 FT.
- 10 GPH - 60 FT.

\* APPLICATION RATE FOR LISTED FLOW AT 36" SPACING.

\*\* SHRUBS REQUIRE DOUBLE THE RUN TIME / FEWER DAYS FOR 12" OF DEPTH AS COMPARED TO TURF.

EMITTER ASSEMBLY - ½" PIPE, SADDLE / BARB, EMITTER, AND ¼" POLYETHYLENE TUBING RISER. SEE SURFACEFLOW EMITTER DETAIL.

**SLOPES**

1. 0 - 10% GRADE: 1ST ROW OF PIPE SHOULD BE 12" MIN. FROM CURB OR HARDSCAPE EDGE.
2. 10% GRADE OR STEEPER - CONSULT DESIGNER FOR 1ST FIRST ROW AND SUBSEQUENT PIPE SPACING.

**HOW TO SPECIFY**

PLEASE NOTE THE SPACING OF THE EMITTERS FIRST FOLLOWED BY A DASH AND THE EMITTER GPH FLOW.

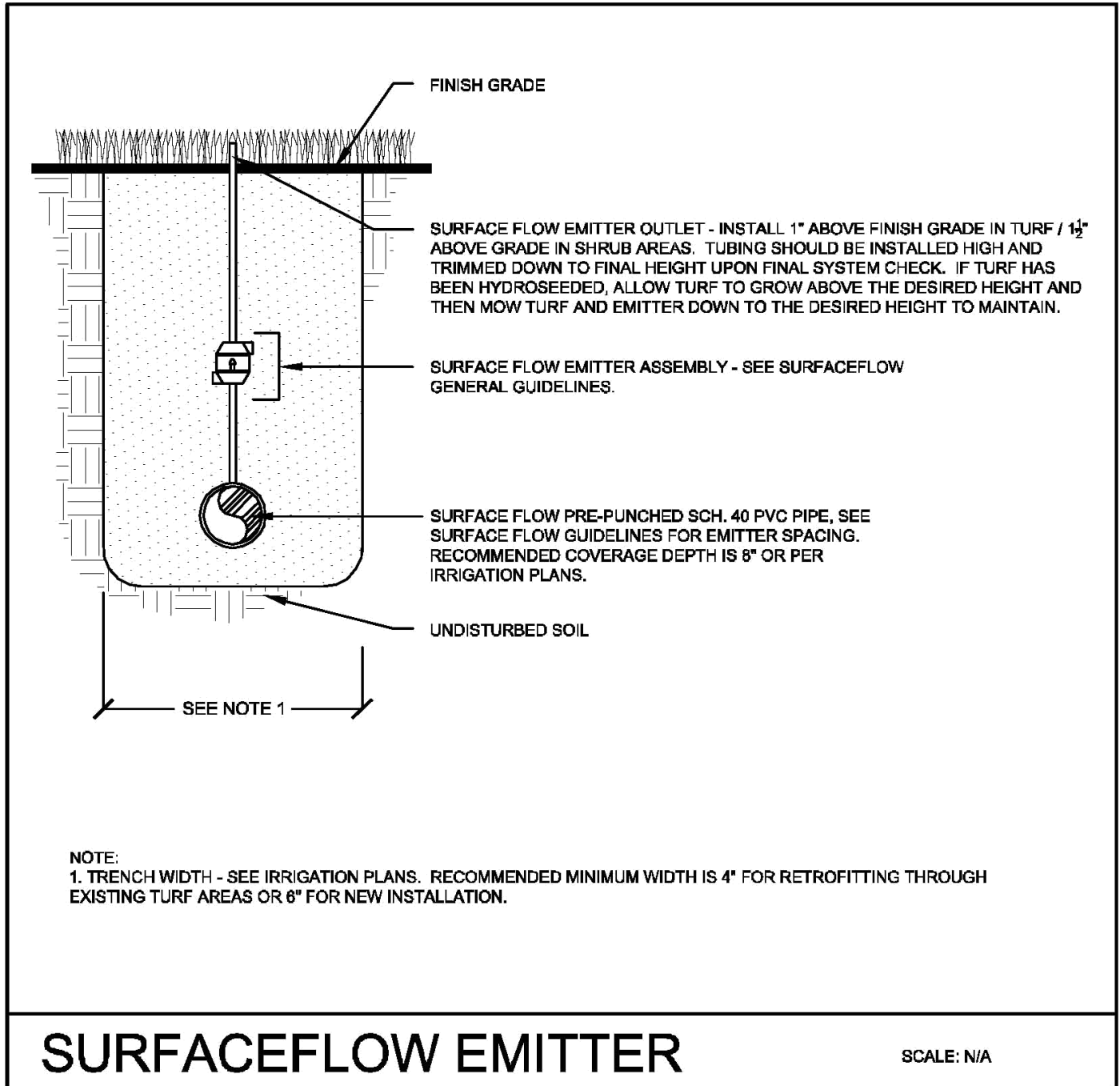
**EXAMPLES**

1. MODEL SF36-ESA5 - INDICATES A 36" EMITTER SPACING WITH A 5 GPH EMITTER FLOW.
2. MODEL SF30-ESA3 - INDICATES A 30" EMITTER SPACING WITH A 3 GPH EMITTER FLOW
3. MODEL SF24-ESA5 - INDICATES A 24" EMITTER SPACING WITH A 5 GPH EMITTER FLOW.

## SURFACEFLOW GENERAL GUIDELINES

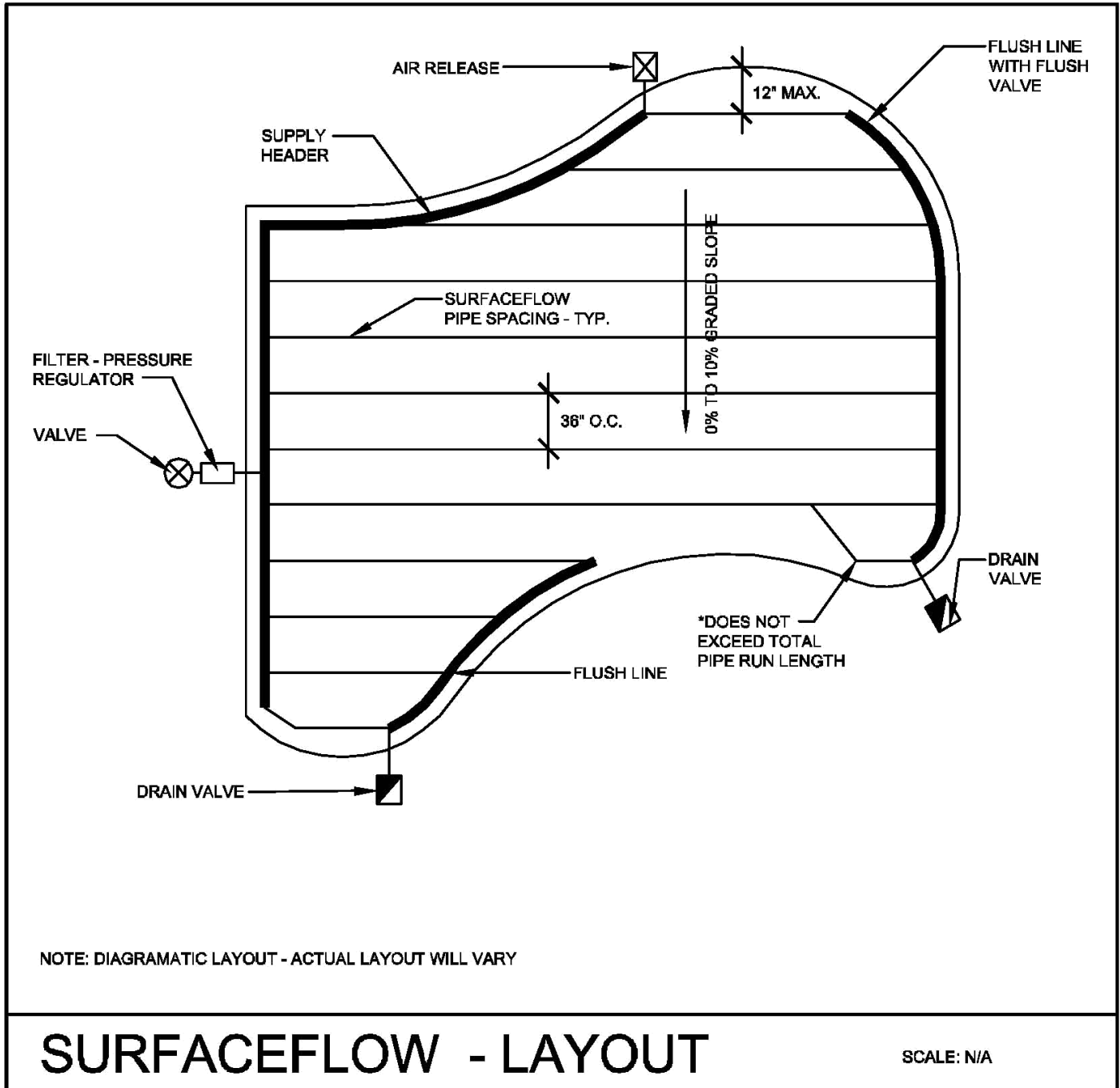
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I N T E R N A T I O N A L

## SurfaceFlow™

<b><u>Item</u></b>	<b><u>Description</u></b>
SF24	1/2" Sch. 40 PVC- 24" emitter spacing for SurfaceFlow™- 20 Ft. Lengths (pipe includes emitters)
SF30	1/2" Sch. 40 PVC- 30" emitter Spacing for SurfaceFlow™- 20 Ft. Lengths (pipe includes emitters)
SF36	1/2" Sch. 40 PVC- 36" emitter spacing for SurfaceFlow™- 20 Ft. Lengths (pipe includes emitters)

### **Emitter Flow Rates**

ESA10 - 10 GPH Emitters (Blue)

EAS7 - 7 GPH Emitters (Orange)

ESA5 - 5 GPH Emitters (Silver)

ESA3 - 3 GPH Emitters (White)