

# J-DRain<sup>®</sup> SWD



## Landscape Drainage Systems

APPLICATIONS: LAWNS, GARDENS, PLAYGROUNDS, ATHLETIC FIELDS, GOLF COURSES, SYNTHETIC TURFS, HORSE FARMS, AND LANDSCAPE.



REMOVING STANDING WATER IN YARDS AND LANDSCAPE THE EASY WAY!

**J-DRain SWD** is an effective method for removing standing water in many landscape applications without disrupting the surrounding areas by placing **SWD** in narrow trenches and backfilling with sand.



# J-DRain<sup>®</sup> SWD

Site Water Drainage Composites



LOCATE AND DIG TRENCHES



INSTALL AND TAPE FITTINGS



T-CONNECTOR DETAIL



END CONVERSION TO PIPE



SPLICING DETAIL



END CAP FITTING



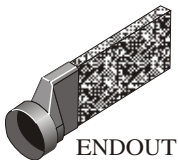
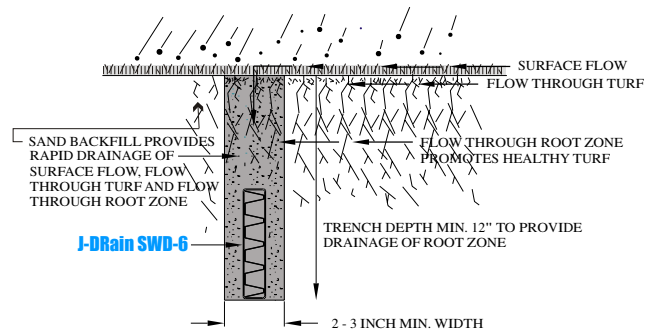
INSTALLING INTO TRENCH



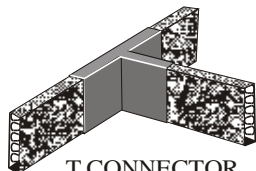
TEMP. STAKES FOR CENTERING



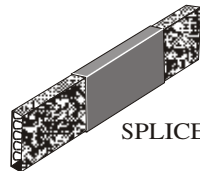
INSTALLING SAND BACKFILL



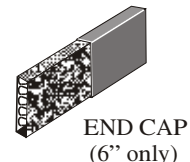
ENDOUT



T CONNECTOR



SPLICE



END CAP  
(6" only)

[info@j-drain.com](mailto:info@j-drain.com)

[www.j-drain.com](http://www.j-drain.com)

**JDR Enterprises, Inc.**

292 S. Main St., Suite 200 Alpharetta, GA 30004  
(800) 843-7569 (770) 442-1461 Fax: (770) 664-7951





J-Drain SWD-12 FOR LATERAL DRAINAGE



DRAINAGE LATERALS INTO SIDELINE TRENCH



FINISHED PLAYING FIELD

## SYNTHETIC TURF INSTALLATIONS:

*VERY COST EFFECTIVE: ELIMINATES ALL TRENCHES ACROSS FIELD WHILE SPEEDING UP CONSTRUCTION TIME AND REDUCING INSTALLATION COST.*



TRENCHING ACROSS FIELD



J-Drain SWD-6 IN TRENCH / SAND BACK FILL



J-Drain SWD-6 WITH ACCESSORIES

## NATURAL TURF INSTALLATIONS:

*VERY COST EFFECTIVE: NARROW, SHALLOW TRENCHES CAN BE LAID FOR A FRACTION OF THE COST OF PIPE AND GRAVEL FILLED TRENCHES. LESS INTRUSIVE TO PLAYING AREA.*



INSTALLING J-Drain SWD ACROSS PLAYGROUND



FREE DRAINAGE PLAYGROUND

## PLAYGROUND INSTALLATIONS:

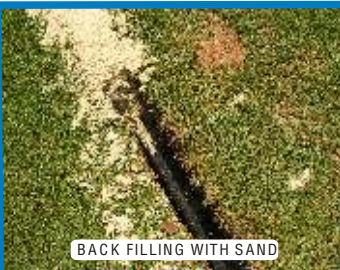
*VERY COST EFFECTIVE: ELIMINATES ALL TRENCHES UNDER PLAYGROUND AND PROVIDES RAPID DRAINAGE, SAVING CONSTRUCTION TIME AND MONEY.*



TRENCHING ACROSS FAIRWAY



INSTALLING J-Drain / FITTINGS



BACK FILLING WITH SAND

## GOLF COURSE INSTALLATIONS:

*VERY COST EFFECTIVE: NARROW, SHALLOW TRENCHES CAN BE LAID FOR A FRACTION OF THE COST OF PIPE AND GRAVEL FILLED TRENCHES. CAN BE INSTALLED QUICKLY WITH LESS DAMAGE TO AREA.*



TRENCHING AND INSTALLING J-Drain



## HORSE FARM INSTALLATIONS:

*VERY COST EFFECTIVE: NARROW, SHALLOW TRENCHES CAN BE LAID FOR A FRACTION OF THE COST OF PIPE AND GRAVEL FILLED TRENCHES. SURFACE DRYING TIME GREATLY REDUCED.*

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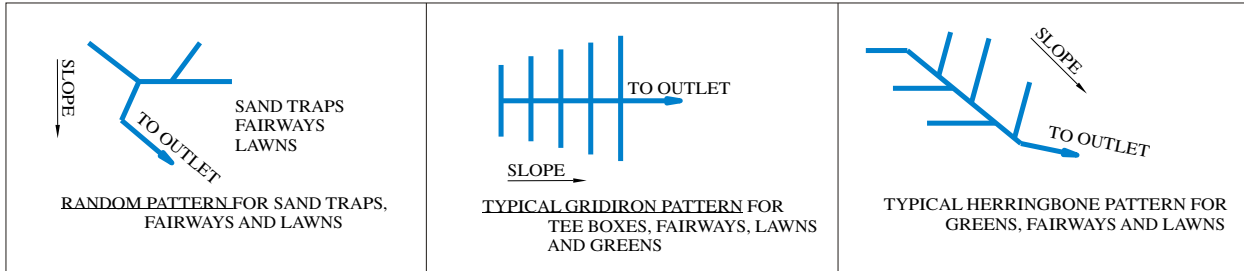
Site Water Drainage Composites



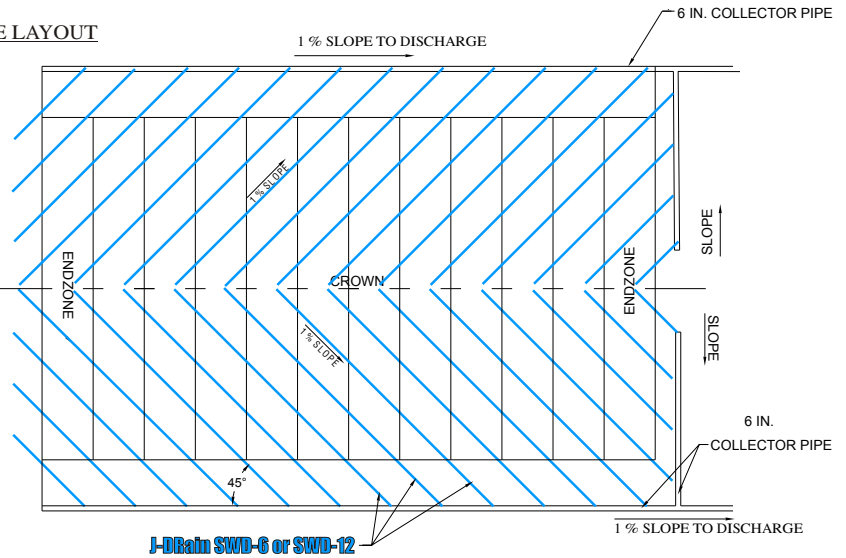
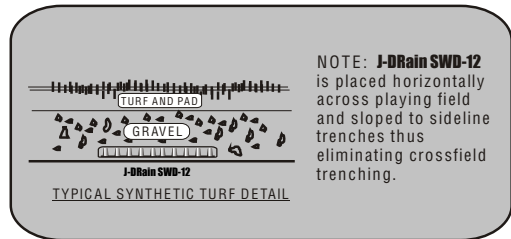
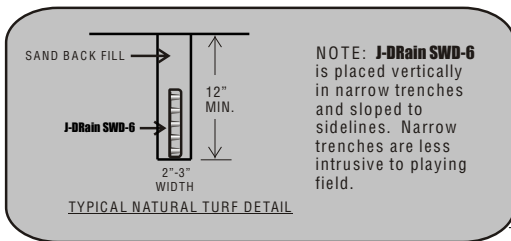
## INSTALLATION PROCEDURE:

1. Determine drainage layout. Mark field or drainage area with a chalk line at trench locations.
2. Excavate trenches 2" - 3" (33 - 105 mm.) wide and to a depth so that the top of the **J-DRain SWD** is 6" below the turf surface.
3. Unroll and place **J-DRain SWD** into trench centering with temporary wood stakes. Install proper fittings and tape fittings in place. Use a select backfill such as washed concrete sand.
4. Remove temporary stakes and flood trench with water to promote proper compaction.
5. Top off trench with sand and replace sod.

## TYPICAL DRAINAGE LAYOUTS FOR J-DRain SWD



## TYPICAL ATHLETIC FIELD DRAINAGE LAYOUT



PHYSICAL PROPERTIES			
PROPERTY	TEST METHOD	VALUES	
<i>CORE</i>			
Compressive Strength	ASTM D-1621	9,500 psf	455 kN/m <sup>2</sup>
Thickness	ASTM D-1777	1.0 in	2.54 cm
IN-PLANE FLOW, Q&S18 psf & Hydraulic Gradient =.1	ASTM D-4716	30 gpm/ft.width	372 l/min/m.width
<i>FABRIC</i>			
Flow	ASTM D-4491	140 gpm/sf	5698 lpm/sq.m
Mullen Burst	ASTM D-3786	210 PSI	1447 KpA
Puncture	ASTM D-4833	65 lbs.	0.30 kN
U. V. Resistance	ASTM D-4355	70%@500 hrs.	70%@500 hrs.
Apparent Opening Size (AOS)	ASTM D-4751	70 U.S.Sieve	0.212 mm
Grab Tensile	ASTM D-4632	100 LBS.	0.45 kN

Roll Sizes	
WIDTH	LENGTH
6 in.	165 lf (50.29 M)
12 in.	165 lf (50.29 M)
18 in.	165 lf (50.29 M)
24 in.	165 lf (50.29 M)
36 in.	165 lf (50.29 M)

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