Portland's Tom McCall Waterfront Park is the highest use park in the city. Operational personnel there have instituted a system that successfully bridges the gap between those who enjoy the park and those who maintain it.

TRAFFIC DOESN'T DAMPEN BEAUTY OF PORTLAND PARK

To keep Tom McCall Waterfront Park looking good, Portland's Parks Bureau broke it into more manageable areas, established experimental turf areas and upgraded its maintenance practices.

Portland, Oregon's Tom McCall Waterfront Park is often referred to as the flagship of the city's parks system. The 26-acre park, located on the banks of the Willamette River in downtown Portland, is the city's highest use park, with major events scheduled throughout the summer drawing thousands of people.

The park is accessible to residents and visitors in the downtown area. Views of highrises to the west, the river and distant mountains to the east provide an exciting setting that blends urban and pastoral scenery.

Festival time
The park is host to numerous annual festivals, including Cinco de Mayo in May, Neighborfaire and The Bite in July and weekly symphonies in August. In fact, there are 10 major events that draw between 50- and 100,000 participants from May through September, and many smaller events.

But the Portland Parks Bureau's Maintenance and Operations crews are constantly struggling to keep up with usage demands. For them, the popularity of Waterfront Park has become too much of a good thing.

Over the last few years, the Parks Bureau has developed a variety of methods for dealing with this heavy use. These include establishing new user's fees, breaking the park up into more manageable areas, constantly updating maintenance procedures, and establishing experimental turf areas.

Crowds a problem
The event that draws the largest crowds and wreaks the greatest amount of devastation on the turf is
unquestionably the Rose Festival Fun Center, which runs for two weeks during the end of the area’s rainy season. The festival uses more than half the park acreage and requires several days for set up and tear down. During these three weeks all irrigation is shut down.

Over one million feet and innumerable wheels from baby strollers can turn the turf into an oozing quagmire. If, on the other hand, there is no rain, the lack of irrigation results in compacted, dry, burned out areas.

When the last of the carnival is hauled away, the Parks Bureau has less than two weeks to repair the turf before the next major event, Neighborfaire. In the meantime, hundreds of people continue to use the park each day and smaller special weekend events draw thousands.

The first major part of the renovation process involves dragging a six-foot magnet over the turf to find bolts, nails, bottle caps, wire and other metal that might damage turf equipment or park users. This two- to three-day project “takes time but is a key function in our operation,” according to Jim Carr, mowing and turf manager for the city.

Remove contaminants
After dragging the magnet, the parks crew removes any soil contaminated by oil, grease or hydraulic fluid which would kill the grass. They then aerate, topdress and overseed as needed.

Until very recently, park users paid a single permit fee ($5) for which they could use any or all of the 26 acres and were supposedly responsible for cleaning up their mess. In reality however, taxpayers picked up the bill for most renovation.

In January, 1989, all of that changed. The park was divided into seven sections and a new fee structure was instituted. Now, depending on the area used, the number expected and the activity planned, fees range from $25 per day per section for a public event where no sales or profit are involved to $500 per day per section where products will be sold or admission charged.

Under these new regulations, the Parks Bureau can now bill event organizers for any destruction of park property, such as costs for turf renovation and irrigation repairs.

Who pays for it
Carr schedules a walk through the area before and after each event with the event user. This provides the user and the Park Bureau up-to-date information on the condition of the Park. Carr says. The Parks Bureau then assesses the damages after the event and schedules the repair and renovation.

Because festival organizers know they will be accountable for damages, it is in their best interests to insure that vendors reduce damaging practices.

Breaking up the park into seven areas also allows the Bureau to schedule individual areas for maintenance and to assign events for areas best suited to a particular need.

The Operations Division works closely with the park permits desk to schedule open times for maintenance and repair activities in certain sections of the park when needed.

The park also contains a 4½-acre experimental section that has been developed for ease of maintenance year-round. "We needed a turf area

An experimental section of the park has a 20-inch deep sand medium under perennial ryegrass. A nearby sand sod field provides patches for repairs.

Following a major festival in mid-June, the maintenance crew drags a magnet over the turf to remove bolts, nails, bottle caps, wire and other metal.
with good drainage for use during heavy spring rains and some compaction resistance for heavy traffic," Carr says. "We restored this section using specifications for a sports turf area, often referred to as the optimum high-use athletic field."

Sand base
The sports turf has a 20-inch deep sand medium, using granular pitrun sand (with most sand particles falling between No. 16 and No. 60 screen) with no organic material and no fines which would tend to lock up. Straight perennial ryegrass seed was sown onto the sand base. This results in much higher fertilization needs and supplementation with lime and micronutrients.

The reality is... that the over-scheduling of the park is impossible to deal with.

Simple restoration
"And it is relatively easy to restore. By doing complete aeration and a light topdressing with overseeding a couple times a year, we're able to restore that area and get a good recovery within a week or 10 days after seeding."

To help maintain the sand-based turf, the bureau has established a straight sand sod field from which they can extract sod patches. This allows the crews to fill in divots, voids and holes using the same sand medium. By not adding soil or other foreign organic matter, the purity of the turf is retained.

Adding regular sod with a sandy loam soil would cause the sand to lock up, forming an almost cement-like base, Carr says. "We've been able to move the sod without using netting or organic materials. We use a heavy seeding, roll it and then use it within a few hours. We've had excellent recovery—the grass patches take right off."

Carr has had good luck establishing the sod field. Within three months of seeding, the sod field can be cut and used as patches. "Grass on straight sand is working beautifully for us," he notes.

Due recognition
In November the Bureau and Waterfront Park received an award from the Oregon Parks and Recreation Society for excellence in maintenance, particularly under difficult circumstances. Considering the adverse conditions under which they work, Bureau personnel believe this recognition from their peers is indeed an honor.

"It's a very special award to us for a very special park," says Ron Maynard, acting director of Parks and recreation. "On a weekly basis we run the risk of loving it to death."