

**Stormwater Pollution Prevention Plan (SWPPP) for Construction of O'Day Park in O'Fallon, Missouri**

"I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete."

Signature: \_\_\_\_\_  
 Printed Name: April Giesmann, P.E.  
 Title: Civil/Site Engineering Practice Leader  
 Company: Horner & Shifrin, Inc.  
 Date: \_\_\_\_\_

<b>Project Name and Location</b>	<b>O'Day Park O'Fallon, MO</b> Located: North Highway DD  <b>Address: 8963 Highway DD</b>
<b>Engineer Information</b>	<b>Horner &amp; Shifrin Inc</b> 401 S. 18 <sup>th</sup> Street Suite 400 St. Louis, MO 63103 314-335-4321
<b>Owner Information</b>	<b>City of O'Fallon -Parks and Recreation Department</b> 400 Civic Park Dr. O'Fallon, MO 63366 636-379-5606
<b>Nature of the land disturbance activity</b>	Clearing and Grubbing, Grading, storm sewer, sanitary and water line installation, construction of new asphalt entrance roads and parking lots along with asphalt and concrete walkways. Construction of activities building, amphitheater, playground, comfort station, group camping area, maintenance facilities, shelters, and picnic pavilions.
<b>Runoff factor "CN" for disturbed and tributary area (from Table 2-2a of Urban Hydrology for</b>	<b>Prior to activity:</b> 6% Wood, fair condition, CN = 79. 88% Woods/Grass Combination, fair condition, CN = 82. 6% Impervious, CN = 98. <b>Composite CN = 83</b>

	<p>begins.</p> <p>3. Removal of existing improvements and clearing.</p> <p>4. Site construction activities with subsequent temporary erosion controls.</p> <p>5. The temporary perimeter controls (silt fencing) will not be removed construction is completed.</p> <p>6. Completion of permanent stormwater control features. Removal and disposal of all of the temporary control features.</p>
<b>Inspections, maintenance and response to unanticipated loss of contained sediment</b>	<p>A visual inspection of all erosion and sedimentation control devices will be required to be performed by the Contractor once per week, and promptly after every rainstorm that causes a work stoppage by the Contractor. Any damaged devices will be promptly repaired or replaced by the Contractor.</p> <p>If any inspection reveals that additional measures are needed to prevent movement of sediment to offsite areas, additional devices will be promptly installed as needed. Sediment controls in need of maintenance will be required to be attended to within 8 hours of discovery.</p>
<b>These allowable non-storm water discharges are authorized by the EPA and are not significant contributors of pollutants to the MS4.</b>	<ul style="list-style-type: none"> <li>Landscape irrigation</li> <li>Discharge from potable water sources</li> <li>Air conditioning condensation</li> <li>Street wash water</li> <li>Residential building wash waters</li> </ul>
<b>The following items are not applicable to the St. Charles County Park site</b>	<ul style="list-style-type: none"> <li>There are no endangered species threatened or historic properties affected by this project.</li> </ul>

O'Day Park Site, Best Management Practices		
BMP	Quantity	Temporary/Permanent
Silt Fence	5,710 LF	Temporary
Check Dam	106 Each	Temporary
Turf Reinforcement Mat	16,130 SY	Permanent
Bioswale	0	Permanent
<b>Notes:</b>		
<ul style="list-style-type: none"> <li>The temporary sediment trap will be converted to a permanent water-quality extended dry detention basin designed according to City of O'Fallon specifications.</li> </ul>		

Small Watershed, USDA TR-55 Manual, June 1986, Hydrologic Soil Group D)	<b>After activity:</b> 5% woods, fair condition, CN = 79. 13% Open Space, good conditions, CN = 80. 70% Woods/Grass combination, fair condition, CN = 82. 12% Impervious, CN = 98. <b>Composite CN = 84</b>
<b>Total area of the property</b>	<b>57.46 acres +/-</b>
<b>Total area of the property to be disturbed</b>	<b>approx. 18.23 acres</b>
<b>Site Access for Haul Vehicles</b>	It is anticipated that the primary access for construction vehicles and equipment and haul vehicles will be from Highway DD.
<b>Haul Vehicle Travel Route(s)</b>	The primary travel route from Highway DD north to I-64.
<b>Structural controls to manage stormwater flow from exposed soils, and practices to retain sediment on-site or in any other way limit stormwater runoff</b>	<p>To mitigate against soils from escaping into the adjacent drainage system, the following Best Management Practices (BMP's) will have been implemented prior to initiating any land disturbance or construction work on site:</p> <ul style="list-style-type: none"> <li>Silt fencing and/or mulch berms along the perimeter of the disturbed area.</li> </ul>
<b>Temporary soil stabilization practices (i.e. temporary erosion and sediment control measures which are intended to retain siltation within the development site.)</b>	<p>Temporary erosion/siltation control measures to be used during construction will include implementation of the following basic practices:</p> <ul style="list-style-type: none"> <li>Construction work will be carefully staged (sequenced), such that only relatively small areas of the site will be disturbed and left un-stabilized at any one time.</li> </ul> <p>Slopes will be graded to keep the slope length and gradient to a minimum to minimize stormwater runoff velocities over graded areas. Seeding and development of a temporary stand of grass will be performed for any areas expected to remain exposed for more than 14 days.</p>
<b>Control of other pollutants and waste disposal during construction (including construction debris, chemicals, litter, and sanitary wastes):</b>	<p>During the course of the work, the areas around the construction work will be kept as clean and neat (free of litter) as reasonably possible.</p> <p>Construction debris and other litter on site will be cleared from the ground at regular intervals, and placed in</p>

- All seeding/sodding will be done according to City of O'Fallon Standard Specifications.
- Temporary Slope Breaks or Wattles may be used in lieu of Silt Fence on slopes.

**Compliance with Federal, State, and Local Regulations**

All controls incorporated into this SWPPP (as well as any other measures that Contractor may elect to put in place) shall be implemented in a manner consistent with performance standards for erosion and sediment control set forth in the City of O'Fallon Standard Specifications.

**All contractor(s) and subcontractor(s) for this work will be required to sign the following certification:**

"I certify that I understand, and shall comply with, the terms and conditions of the State of Missouri Permit for Land Disturbance (> 5 acres), the City of O'Fallon, Missouri Standard Specifications, and this Stormwater Pollution Prevention Plan prepared thereunder."

**Identification of Individual Responsible for Activities Related to Construction of O'Day Park:**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Company: \_\_\_\_\_

24-Hour Telephone No. \_\_\_\_\_

**END OF STORMWATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION OF O'DAY PARK**

	<p>dumpsters on site which dedicated solely to temporary storage of construction debris until such dumpsters can be picked up by a licensed trash hauler, removed from the site, and hauled to an off-site disposal location; all in accordance with all applicable ordinances and regulations.</p> <p>Portable toilets will be provided for workers on-site, and these will be properly and regularly serviced / maintained by the company providing the toilets.</p> <p>Any fuel and oil stored in construction staging areas (which will be kept to a minimum) will be provided with spill containment structures.</p> <p>Any residues of chemicals, paints, or other regulated waste substances will be handled by the construction contractors' workers in a safe and environmentally-sound manner. Such waste materials will be temporarily stored on site in containers government-approved for the storage of such waste materials; until such containers (which will be carefully segregated from construction debris or other solid waste dumpsters) can be picked up by a licensed waste hauler, removed from the site, and hauled to an off-site disposal location; all in accordance with all applicable ordinances and regulations.</p>
<b>Vehicle parking and wash-down</b>	<p>A stone base area designed to provide a buffer zone, where construction vehicles can drop their mud to avoid transporting it onto public roads, will be operated at the location where traffic leaves the construction site to move directly onto a public road or other paved area, as shown on these drawings.</p> <p>This stone base buffer zone will be periodically cleaned to remove accumulated.</p> <p>Any on-site parking for construction workers will also be constructed of a crushed-stone or gravel base, at both the primary and secondary points of site construction access, in order to limit transport of sediment and/or other materials off site.</p>
<b>Borrow sites and haul roads</b>	The route of such hauling of clean material onto this site for use in the construction work is anticipated to be relatively minor.
<b>Intended sequence of major soil disturbing activities</b>	<ol style="list-style-type: none"> <li>Installation of stabilized primary construction entrance and construction parking areas.</li> <li>Perimeter controls (silt fence) installed before any removal of pavement or construction work</li> </ol>



CITY OF O'FALLON  
100 North main Street  
O'Fallon Missouri, 63366

Project:  
**O'DAY PARK &  
ACTIVITY CENTER**

Landscape Architect:



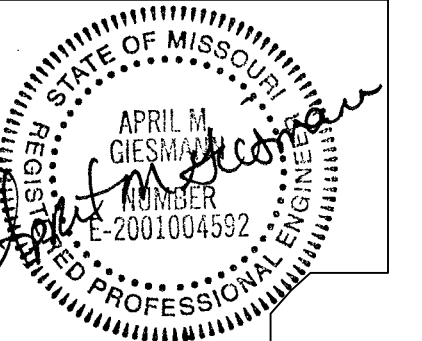
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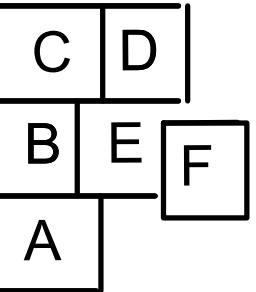
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April Giesmann - Civil Engineer  
MO PE # - 2001004592



10/04/2017  
Horner & Shifrin, Inc.  
Missouri State Certificate of Authority #000159

KEY PLAN



Issuances

No.	Description	Date
01	PRICING SET	04/18/17
02	PRELIM P&Z	04/28/17
03	P&Z RESUBMIT	05/17/17
04	100% DD SET	05/31/17
05	50% CD SET	07/14/17
06	90% CD SET	08/01/17
07	PERMIT SET	08/18/17
08	PERMIT SET FIRE DEPT.	09/22/17
09	PERMIT SET REVISIONS	10/04/17

Revisions

No.	Description	Date

SWT No. 20150.04  
 Drawn \_\_\_\_\_ Reviewed \_\_\_\_\_

Sheet Title  
SWPPP

Number

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