



**Table 60-5 Soil Stabilization Schedule**

Soil Disturbance Activity or Condition	Required Stabilization Time
Soil disturbance has ceased in areas greater than 2,000 square feet	14 days
After construction of dikes, swales, diversions, and other concentrated flow areas	5 days
When slopes are steeper than 3 horizontal to 1 vertical	7 days
When slopes are greater than 3% and longer than 150 feet	14 days
Perimeter controls around soil stockpiles	End of workday
Stabilization or covering of inactive stockpiles	30 days
When land disturbance is completed, permanent soil stabilization must be installed	30 days

**SPILL AND SITE POLLUTION:**

Should an accidental spill occur refer to material safety data sheets. Any spills of hazardous materials in quantities in excess of reportable quantities as defined by EPA or the state agency regulations, shall be immediately reported to the EPA National Response Center (800-424-8802) and Missouri Department of Natural Resources (573-634-2436). Reportable spills for petroleum products is greater than 50 gallons. All other reportable hazardous materials and their quantities may be found on the web site at <http://www.dnr.mo.gov> on the local number is 573-840-9750. Federal law requires the responsible party to report any release of oil if it reaches or threatens a sewer, lake, creek, stream, river, groundwater, wetlands, or area like a An emergency spill kit is required to be onsite for all potential spills.

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| <ul style="list-style-type: none"> <li>○ SANITARY SEWER MANHOLE</li> <li>□ FLARED END SECTION</li> <li>□ CURB/AREA INLET</li> <li>□ GRATED INLET</li> <li>□ TELEPHONE CABLE PEDESTAL</li> <li>□ TELEPHONE BOX</li> <li>□ ELECTRIC METER</li> <li>□ GAS METER</li> <li>□ WATER METER</li> <li>□ MAILBOX</li> <li>□ POWER POLE</li> <li>□ GUY WIRE</li> <li>□ TREE</li> <li>□ BENCHMARK</li> </ul> | <ul style="list-style-type: none"> <li>□ UTILITY BOX</li> <li>○ FOUND MONUMENT</li> <li>● SET MONUMENT</li> <li>□ GRAVEL</li> <li>□ ASPHALT</li> <li>□ CONCRETE</li> <li>— UGE — BURIED ELECTRIC</li> <li>— OHW — OVERHEAD UTILITIES</li> <li>— GAS — BURIED GAS</li> <li>— W — BURIED WATER</li> <li>— FO — BURIED FIBER OPTIC</li> <li>— T — BURIED TELEPHONE</li> <li>— SAN — SANITARY SEWER</li> <li>— X — FENCE LINE</li> <li>— BH — BORE HOLE</li> </ul> |
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**STORM WATER POLLUTION PREVENTION PLAN**

**PURPOSE:**

The purpose of the Storm Water Pollution Prevention Plan (SWPPP) is to inform the Developer/Contractor of the following objectives they are required to meet:

- Prevent erosion where construction activities shall occur.
- Prevent pollutants from mixing with storm water.
- Prevent pollutants from being discharged by trapping them on-site, before they can affect the receiving waters.
- All regulations of Missouri Department of Natural Resources are met.
- All regulations of the Environmental Protection Agency are met.
- All regulations of the local municipality are met.

**B. PROJECT DESCRIPTION:**

The project is located in the Dardene Creek watershed in O'Fallon, Missouri. The project disturbs approximately 3.95 acres.

The project activities consist of the construction of a new building, parking lot and detention basin and remainder site grading/fill. The site will be protected by the various erosion protection measures listed below:

- Siltation Control:** The entire perimeter of the project that allows storm water to exit will have silt siltation control installed. Details of these devices are depicted on the detail plans prepared by Box Engineering Company, Inc.
- Revegetation:** The site will consist of varying ground slopes, upon completion of the grading activities the slope prone to erosion will be seeded and strawed to stabilize the slope and prevent erosion.

**C. MAINTENANCE AND INSPECTION:**

**Regular Maintenance:** Weekly inspections of the project will include: (a) The repair of any sediment (silt) fence and/or staked straw bale barriers damaged or out of place; (b) The removal of any accumulated trash and/or debris; and (c) The removal of any externally deposited waste materials.

**Periodic Inspections:** Following each rain of more than 0.25 inch in 24 hours, the site will be inspected, and any necessary maintenance will be provided for a period of one year following the completion of the above remediation measures. Summaries of the maintenance and the inspections will be maintained and shall be kept available from the owner. An inspection report shall be filed and kept on site for every inspection. The report shall detail the findings of the inspection and if any action was required. The inspection form needs to include, name of the site, name of the inspector, permit number, date of inspection, major observations and actions taken to correct the problems and the signature of the inspector. The inspection reports need to be kept on file by the permittee for three years after the project is completed.

The field inspections will be conducted in a systematic manner to minimize the possibility of any significant feature being overlooked. A detailed checklist will be developed and followed for the examination. Particular attention will be given to detecting evidence of erosion, slope instability, undue settlement, displacement, and tilting. Photographs and drawings will be used freely to record conditions in order to minimize descriptions. The field inspection will include appropriate features and items, including potential hazards to human life or property.

The condition of the slopes and vegetative cover will be evaluated and examined for erosion.

Measures will be taken to promote the growth of vegetation and repair of damage caused by erosion and sedimentation. The inspection will also provide recommendations for measures that need to be undertaken immediately, based on the experience and judgment of the inspector. Necessary follow up inspections will be made as necessary to verify that any maintenance, alteration, or repair measures are accomplished by methods acceptable by standard engineering practice.

**VEGETATION ESTABLISHMENT For Urban Development Sites APPENDIX A**

<b>SEEDING RATES:</b>	
<b>PERMANENT:</b>	Tall Fescue - 150 lbs./ac. Smooth Bromes - 100 lbs./ac. Combined - Fescue @ 75 lbs./ac. AND Bromes @ 30 lbs./ac.
<b>TEMPORARY:</b>	Wheat or Rye - 150 lbs./ac. (3.5 lbs. per 1,000 s.f.) Oats - 120 lbs./ac. (2.75 lbs. per 1,000 s.f.)
<b>SEEDING PERIODS:</b>	Fescue or Bromes - March 1 to June 1 Wheat or Rye - August 1 to October 1 Wheat or Rye - March 15 to November 1 Oats - March 15 to September 15
<b>MULCH RATES:</b>	100 lbs. per 1000 sq. ft. (4,356 lbs. per ac.)
<b>FERTILIZER RATES:</b>	Nitrogen 30 lbs./ac. Phosphorus 30 lbs./ac. Potassium 30 lbs./ac. Lime 600 lbs./ac. ENM*
	* ENM = effective neutralizing material as per State evaluation of quarried rock.

**PROJECT TITLE:**  
 CHILDREN'S LIGHTHOUSE  
 EARLY LEARNING CENTER  
 2570 SOMMERS ROAD  
 O'FALLON, MISSOURI 63368

**ENGINEERING FIRM:**  
 BOX ENGINEERING COMPANY, INC.  
 221 Point View Blvd.  
 St. Charles, MO 63301  
 636-928-5562  
 FAX 928-1718

**DISCLAIMER OF RESPONSIBILITY:**  
 I hereby certify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or projects.

**STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER**  
 CLIFFORD L. HEITMANN  
 NUMBER E-28817  
 EXPIRES 12/31/23

CLIFFORD L. HEITMANN  
 CIVIL ENGINEER  
 E28817  
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 Box Engineering Company, Inc.  
 Authority No. 000655  
 All Rights Reserved

REVISIONS	DATE	BY	DESCRIPTION
11-3-23		city, county, dcad & psdw2	comments

**Developer / Owner:**  
 JAFRI LLC, ASHLEY FANGMAN  
 4010 CORKWOOD CT.  
 COLUMBIA, MO 65203  
 417-766-8874 - ashleyfangmann@gmail.com

**SWPPP**

**P+Z No. #23-004744**  
**Approval Date: July 6, 2023**

**City No. #**

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UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

