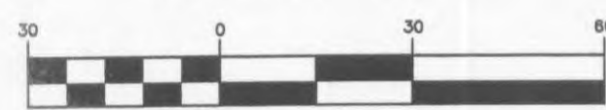


Construction Activities and BMPs for Construction Site Operations

Activity	Best Management Practice (BMP) Addressed	Pollutants
Clearing or grading land	<ul style="list-style-type: none"> Control runoff and dust during construction and install sediment controls per SWPPP. Clean and maintain sediment controls. Proper disposal of debris. Inspection and maintenance. 	Sediment, Nutrients, other pollutants attached to the sediment.
Handling fresh concrete or other cement-related mortars	<ul style="list-style-type: none"> Never wash fresh concrete mortar in to a drain or stream. Use designated wash-out areas. When building concrete aggregate driveways, wash fines to the side, to straw bales, or to a sediment basin. 	Toxic & acidic pollutants, sediments
Painting, sanding, plastering, applying drywall, paper, or tile, or other activities using paint, solvents, or adhesives. (Not applicable to this project)	<ul style="list-style-type: none"> Keep residues such as paint chips from entering storm drain. Keep paints, solvents, and other chemicals and their waste containers & soiled rags covered from the rain. Prepare for and clean up spills. Minimize wastes and properly dispose of all wastes. Fix any oil leaks in equipment. 	Toxins, including metals, & oils & greases.
All activities producing or handling wastes, such as batteries & solvents	<ul style="list-style-type: none"> Minimize wastes and properly dispose of all wastes. Ensure all workers know proper procedures. Provide secure storage site/construction yard. Erect barriers or isolate area to prevent contact with stormwater runoff. 	Toxic pollutants, including metals.
Adjacent to a stream	<ul style="list-style-type: none"> Preserve the stream corridor & take steps to maintain the stream channel & vegetation. 	Sediment.
General contracting & Construction management	<ul style="list-style-type: none"> Make sure all applicable BMPs are followed. Ensure all local, state, and federal permits are in place and followed. 	All
Training new employees	<ul style="list-style-type: none"> Include training about water quality BMPs. Ensure all employees understand the project SWPPP. 	Potentially all



GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

GRADING NOTES:

- NOTIFY THE CITY OF O'FALLON DEPT. OF PUBLIC WORKS 48 HOURS PRIOR TO THE COMMENCEMENT OF GRADING AND/OR CONSTRUCTION.
- PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS. CONTRACTOR SHALL KEEP ROAD CLEAR OF MUD AND DEBRIS.
- THE STREETS SURROUNDING THIS DEVELOPMENT AND ANY STREET USED FOR CONST. ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
- EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY AND ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
- ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY THE CITY OF O'FALLON.
- TEMPORARY SILTATION CONTROL MEASURES (STRUCTURAL) SHALL BE MAINTAINED UNTIL VEGETATIVE COVER IS ESTABLISHED AT A SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON SITE.
- WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
- WHEN CLEARING AND/OR GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 30 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ON SITE. PROTECTIVE MEASURES MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS/CITY ENGINEER SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEAS.
- IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF A PERMANENT GRASS COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.
- ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENTS) IN EXCESS OF 20% SLOPES (6:1) SHALL BE MULCHED AND TACKED AT THE RATE OF 100 POUNDS PER 1000 SQUARE FEET WHEN SEEDING.
- THE LOT SHALL BE SEEDDED AND MULCHED AT THE MIN. RATES DEFINED BY THE CITY OF O'FALLON STANDARDS OR SOODED BEFORE AN OCCUPANCY PERMIT SHALL BE ISSUED EXCEPT THAT A TEMPORARY OCCUPANCY PERMIT MAY BE ISSUED BY THE CITY PLANNING DEPT. IN CASES OF UNDUKE HARDSHIP BECAUSE OF UNFAVORABLE GROUND CONDITIONS.
- NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OF ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PUBLIC OR PRIVATE STREET OR PROPERTY FROM SETTLING, CRACKING OR OTHER DAMAGE.
- STORM SEWER PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING.
- SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENT WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE.
- STRAW BALES SHALL BE INSPECTED PERIODICALLY FOR DETERIORATION. BALES WHICH HAVE ROTTED OR FAILED SHALL BE REPLACED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE BALES.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES OR FENCE.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES OR FENCE SHALL BE ACCOMPLISHED PROMPTLY.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER SILTATION CONTROL BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDDED.
- ALL FLOWLINES OF DIVERSION DITCHES AND SWALES SHALL BE PROTECTED AS NEEDED.
- ALL FILLS PLACED UNDER PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS, INCLUDING TRENCH BACKFILLS WITHIN AND OFF THE ROAD RIGHT-OF-WAY, SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHITO 1-180 COMPACTION TEST" (ASTM D-1557) FOR THE ENTIRE DEPTH OF FILL. COMPACTED GRANULAR BACKFILL IS REQUIRED IN ALL TRENCH EXCAVATION WITHIN THE STREET RIGHT-OF-WAY AND UNDER ALL PAVED AREAS. ALL TESTS SHALL BE PERFORMED UNDER THE DIRECTION OF AND VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
- SOFT SOILS IN THE BOTTOM AND BANKS OF ANY EXISTING OR FORMER POND SITES OR TRIBUTARIES OR ANY SEDIMENT BASINS OR TRAPS SHOULD BE REMOVED, SPREAD OUT AND PERMITTED TO DRY SUFFICIENTLY TO BE USED AS FILL. NONE OF THIS MATERIAL SHOULD BE PLACED IN PROPOSED PUBLIC RIGHT-OF-WAY LOCATIONS OR IN ANY STORM SEWER LOCATION.
- ALL TRASH AND DEBRIS ONSITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFFSITE.
- DEBRIS AND FOUNDATION MATERIAL FROM ANY EXISTING ON-SITE BUILDING OR STRUCTURE WHICH IS SCHEDULED TO BE RAISED FOR THIS DEVELOPMENT MUST BE PROPERLY DISPOSED OF OFFSITE.
- ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33%).
- FOUNDATIONS SUPPORTING WOOD SHALL EXTEND A MIN. OF 6" ABOVE ADJACENT GRADE AND THE CLEARANCE BETWEEN AND SINKING MATERIAL AND THE SOO SHALL BE A MIN. OF 6".
- THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATIONS SHALL BE SLOPED AWAY FROM THE BUILDINGS AT NO LESS THAN 1 UNIT VERTICAL IN 12 UNITS HORIZONTAL FOR A MIN. DISTANCE OF 6 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL.

YARD INLETS TO BE COLLECTED IN THE DOWNSPOUT SYSTEM, UNLESS OTHERWISE STATED. SEE ARCHITECT PLANS FOR LOCATION OF OF DOWNSPOUTS

C.P.P. = CORRUGATED PLASTIC PIPE

- 10/23/02 CITY OF O'FALLON CMNTS
- 09/28/04 PER CITY OF O'FALLON COMMENTS
- 8/12/02 CITY OF O'FALLON CMNTS
- 06/10/03 PER CITY OF O'FALLON COMMENTS

SOUTHERNSIDE APARTMENTS
SITE GRADING AND SILTATION CONTROL

JAMES ENGINEERING & SURVEYING CO., INC.
ENGINEERS PLANNERS SURVEYORS
10811 BIG BEND BLVD. KIRKWOOD, MO 63122
PHONE: (314) 822-1006 FAX: (314) 822-0006

PROJECT # 184025

10/4/2005 11:42:17 AM CDT

C13

PREPARED FOR:
HENNESSEY DEVELOPMENT
9904 CLAYTON RD.
SUITE 122
ST. LOUIS, MO. 63124
PH. (314) 991-1248
FAX (314) 991-0964

CITY OF O'FALLON FILE NO. 3101.01

MATCH LINE "B", SEE SHEET C12



DR. 9
MM MANL
MOBILE