(PUBLIC STREET) ASPHALT PAVEMENT STOCKPILE (PUBLIC) PROPOSED BUILDING FOOTPRINT SILT FENCE SILT FENCE WASHDOWN SIGN (SEE DETAIL TC-1) GRAVEL BAGS AS SILT FENCE (SEE DETAIL RM-1) TEMPORARY CONSTRUCTION ENTRANGE, CHECK DAM -PARKING AND WASH DOWN AREAS. (SEE DETAIL TC-1) RIGHT OF WAY DIVERSION (SEE DETAIL TC-1) 60' OF 15" RCP CHECK DAM F_UP=458.7 SEE DETAIL RM-1) F DOWN=458.3 CHECK DAM (SEE DETAIL RM-1) CHECK DAM (SEE DETAIL RM-1) CHECK DAM **LEGEND** SILTATION FENCE **GRAVEL BAGS** CHECK DAM **CHECK DAM GRAPHIC SCALE** 1 inch = 60 ft.

SURCHARGE PAD SEQUENCE OF OPERATIONS

Est. start date: x/xx/xx

At least once every week and after every rainfall event of 0.25 inches or more, erosion and siltation control devices shall be inspected for damage and amount of sedimentation accumulated and corrective actions shall be taken. Reports of these inspections and corrective actions shall be prepared on the forms provided by the City and submitted to the City of Chesterfield Department of Public Works within 5 days of the date of inspection.

Est. Duration: x weeks

- 1. Install Construction Entrance and Construction Parking, including signage
- 2. Install Gravel Bags as Check Dams in ditches
- 3. Install Silt Fence around stockpile and surcharge area
- 4. Install Gravel Bags as Silt Fence across the access to the surcharge area
- Store surplus BMP supplies on site for emergency use 100 lf of silt fence and 15 gravel bags
- 6. Grade minor swales around proposed topsoil stockpile area to maintain positive drainage
- 7. Clear top soil for surcharge pad and stockpile the material in designated area
- 8. Install Temporary Seed on stockpile/swale area (hydroseeding preferred no loose mulch)
- 9. Construct surcharge pad
- 10. Install Temporary Seed on all disturbed areas
- 11. Inspect and maintain BMP's weekly and after every rain during 60 day surcharge period. Sediment removed from BMP's must be removed from site.
- 12. If development does not proceed, install Permanent Seeding on all disturbed areas and maintain eroostion and sediment control until adequate vegetative growth insures no further erosion of soil, and work is acceptable to the Owner and the City
- 13. Remove all BMP's and restore area

OWNER'S CERTIFICATION REGARDING SWPPP

The Property Owner/Developer hereby certifies that he is familiar with the SWPPP and assumes full responsibility for the performance and maintenance of the SWPPP as stated on the approved plans. He will ensure that all contractors understand and are familiar with the SWPPP for the site and that each contractor agrees to implement and protect elements of the SWPPP as they relate to his work. The Property Owner's/Developer's onsite representative shall be responsible for the performance and maintenance of the SWPPP. In addition, the undersigned Owner/Developer assures that all City property or roads will be adequately protected.

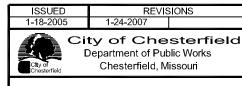
Sabriel Outher
Gabriel Luther, President
Heaven Sent Developers, LLC

Date January 18, 2005

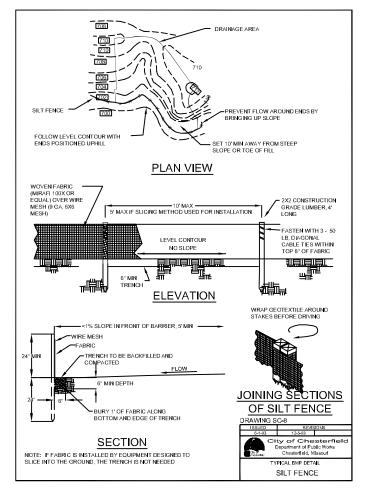
636-555-1212

Emergency Contact: Joe Schlobotnik, Heaven Sent Developers, 314-555-1111 (cell)





SAMPLE SWPPP STOCKPILE



LEVEL CONTOUR **ELEVATION** GRAVEL BAGS AS SILT FENCE GEOTEXTILE FABRIC GRAVEL BAGS A ROCK OUTLET PROTEC 7 OZ, BURLAP OR POLYPROPYLENE BAG — WITH TIES **GRAVEL BAGS AS** 1"-2" AGGREGATE -CHECK DAM **GRAVEL BAG** City of Chesterfi Department of Public Works Chesterfield, Missouri <u>K∕E</u>L BAG

GRAVEL BAGS

DIVERSION RIDGE

ADDITIONAL PHYSICAL DESCRIPTIONS

CONSTRUCTION PARKIING

A stabilized pad designed to provide off street parking for construction relate vehicles, eliminate parking on non-surfaced areas, and mimimize the amount of sediment tracked from the site. Stabilization generally consists of aggregate over woven fabric. The stabilized pad also distributes the axle load of vehicles over a larger area; thereby mitigating the rutting impact vehicles normally have on unpaved areas.

Aggregate size: 2- to 3-inch washed stone

Pad design: Minimum of 12 inches thick and sized to handle anticipated number of employee and visitor vehicles. Plans shall provide provisions for

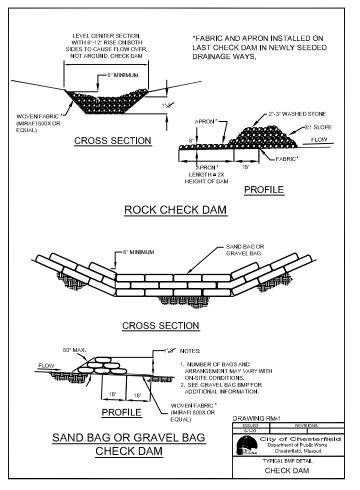
relocation and resizing of parking area(s) as construction phasi		
requires. See table below for minimum requirements.		
Construction Phase	Min. # of Parking Spaces *	
Rough Grading	3	
* Parking Space shall be a minimum of 19 feet long and 9 feet wide		

Filter Fabric:

Woven fabric - Mirafi 600X or equal

Marania or timeor and oboding reaco				
Permanent Seeding *	lb./acre	lb./1000 sq.ft.		
Mixture #2	210	4.8		
Mixture #2 - Tall Fescue @ 1	00 lbs./ac., Perennial Ry	e Grass @		
100 lbs./ac an *Seeding rate for slopes in e	d Kentucky Bluegrass @ xcess of 20% (5:1) – mir			
Temporary Seeding	lb./acre	lb./1000 sq.ft.		
Rye or Sudan	150	3.5		
	Permanent	Temporary		
	Seeding	Seeding		
Fertilizer	(lb./acre)	(lb./acre)		
Nitrogen	45	30		
Phosphate	65	30		
Potassium	65	30		
Lime - ENM	600	600		

Minimum Fertilizer and Seeding Rates



POLLUTION PREVENTION PROCEDURES

1. HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS

Prevent spills

Use products up

Follow label directions for disposal

Remove lids from empty bottles and cans when disposing in trash

Recycle wastes whenever possible

Don't pour waste into sewers or waterways on the ground DON'T:

Don't pour waste down the sink, floor drain or septic tanks

Don't bury chemicals/containers or dispose with construction debris

Don't burn chemicals or containers

Don't mix chemicals together

2. Containers shall be provided for collection of all waste material including construction debris, trash, petroleum products and any hazardous materials to be used onsite. All waste material shall be disposed of at facilities approved for that material

3. No waste materials shall be buried on-site.

- 4. Mixing, pumping, transferring or otherwise handling construction chemicals such as fertilizer, lime, asphalt, concrete drying compounds, and all other potentially hazardous materials shall be performed in an area away from any watercourse, ditch or storm drain.
- 5. Equipment fueling and maintenance, oil changing, etc., shall be performed only in an area designated for that purpose. The designated area is equipped for recycling oil and catching spills.
- 6. Concrete wash water shall not be allowed to flow directly to storm sewers, streams, ditches, lakes, etc without being treated. A sump or pit shall be constructed to contain concrete wash water.
- 7. If substances such as oil, diesel fuel, hydraulic fluid, antifreeze, etc. are spilled, leaked, or released onto soil, the soil shall be dug up and disposed of at a licensed sanitary landfill (not a construction/demolition debris landfill). Spills on pavement shall be absorbed with sawdust, kitty litter or product designed for that purpose and disposed of at a licensed sanitary landfill. Hazardous or industrial wastes such as most solvents, gasoline, oil-based paints, and cement curing compounds require special handling. These materials will be removed from the site and recycled or disposed of in accordance with MoDNR requirements.
- 8. State law requires the party responsible for a petroleum product spill in excess of 50 gallons to report the spill to MoDNR (537-634-2436) as soon as practical after discovery. Federal law requires the responsible party to report any release of oil if it reaches or threatens a sewer, lake, creek, stream, river, groundwater, wetland, or area, like a road ditch, that drains into one of the above

CONSTRUCTION PROCEDURES

CONSTRUCTION ENTRANCE

- ✓ Grade and compact area of construction entrance
- ✓ Install culvert under entrance
- ✓ Place fabric and cover with aggregate, forming diversion across entrance to direct runoff away from roadway
- ✓ Post sign indicating that all exiting vehicles and equipment must use station prior to exiting site

CONSTRUCTION PARKING

- ✓ Grade and compact area of pad
- ✓ Install culverts if needed to maintain positive drainage
- ✓ Place fabric and aggregate, and compact
- ✓ Install signage indicating the designated parking area

CHECK DAM

- ✓ Compact area of check dam
- ✓ Place rock, sand bags or gravel bags to required configuration perpendicular to flow

SILT FENCE

- ✓ Drive post for fence line
- ✓ Dig trench to required dimensions in front of posts for fabric burial
- ✓ Attach wire mesh to posts.
- ✓ Attach fabric to posts, allowing required length below ground level to run fabric along bottom of trench
- ✓ Backfill and compact soil in trench to protect and anchor fabric

 Alternate Construction Install fence by slicing it into ground with specialized equipment

Install posts at reduced spacing indicated on detail

GRAVEL BAGS

- ✓ Fill bags approximately 2/3 full
- ✓ Grade and stabilize soil on which bags are to be placed
- ✓ Install center line of bags on bottom row
- \checkmark Place remaining bags on each side of center min. width of bottom row is 3 bags
- ✓ Place upper rows of bags, staggering ends in brick-like pattern

SEEDING

- ✓ Remove all debris larger than 1 inch in diameter and concentrated areas of smaller debris
- ✓ Mix soil amendments (lime, fertilizer, etc.) into top 3"-6" of soil per chart
- ✓ Hydroseeding preferred if not used, plant seed ¼ ½ inch deep optional
- ✓ Roll lightly to firm surface
- ✓ Cover seeded area with light weight erosion control mat
- ✓ Water immediately enough to soak 4 inches into soil without causing runoff

OPERATION AND MAINTENANCE PROCEDURES

CONSTRUCTION ENTRANCE

- ✓ Immediately remove any mud or debris tracked onto paved surfaces
- ✓ Remove sediment and clods of dirt from construction entrance continuously
- ✓ Replace rock if necessary to maintain clean surface
- ✓ Repair settled areas

CONSTRUCTION PARKING

- ✓ Inform drivers of inappropriately parked vehicles that they need to be moved
- ✓ If necessary to ensure compliance on an ongoing basis, contact employers of violators
- ✓ Install No Parking signage in areas where vehicles are being parked inappropriately ✓ Remove sediment and clods of dirt continuously
- ✓ Repair settled areas
- ✓ Replace rock if necessary to maintain clean surface

CHECK DAM

- ✓ Inspect once a week and after every storm
- ✓ Remove trash and leaf accumulation
- ✓ Remove sediment buildup once it reaches ½ depth of check dam or 12" depth, whichever is less
- ✓ Restore dam structure to original configuration to protect banks
- ✓ Replace rock on upstream face of dam if ponding does not drain in reasonable timeframe

SILT FENCE

- ✓ Inspect once a week and after every storm
- ✓ Remove sediment buildup deeper than ½ the fence height or 12", whichever is less ✓ Replace torn of clogged fabric; repair loose fabric
- ✓ Repair unstable or broken posts
- ✓ Stabilize any areas susceptible to undermining
- ✓ Extend fence or add additional row(s) of fence if necessary to provide adequate protection

GRAVEL BAGS

- ✓ Inspect once a week and after every storm
- ✓ Replace and stabilize any damaged bags or bags that have moved out of place
- ✓ Remove sediment buildup deeper once it reaches ½ the height of the bags.

SEEDING

- ✓ Inspect once a week and after every storm
- ✓ Protect area from vehicular and foot traffic
- Reseed areas that have not sprouted within 21 days of planting.
- ✓ Repair damaged or eroded areas and reseed and stabilize as needed
- ✓ Do not mow until 4 inches of growth occurs
- ✓ During the first 4 months, mow no more than 1/3 the grass height
- ✓ Refertilize during 2nd growing season



3-15-03	ISSUED	REVISIONS	
	3-15-03		
City of Chesterfiel Department of Public Works Chesterfield, Missouri	City of	Department of Pub	lic Works

SAMPLE SWPPP **STOCKPILE**