#### **Storm Water Pollution Prevention Plan**

Automotive Sales & Detail Center 2150 NE Independence Avenue, Lee's Summit,

Prepared for Capital Construction Services, L.L.C. 2642 NE Hagen Rd, Lee's Summit, MO 64064 Lee's Summit, MO



2019

Prepared by:

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#### Documentation

Vicinity/USGS Map (8.5"x11") FEMA Floodplain Exhibit (8.5"x11") KDHE #

#### **Construction Documents**

**Erosion Control Plan** 

#### Reports - To Be Completed By Contractor

Inspection and Maintenance Report Form A Inspection and Maintenance Report Form B

### Automotive Sales & Detail Center STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

#### SITE DESCRIPTION

This project, Automotive Sales & Detail Center, is located at 2150 NE Independence Avenue, Lee's Summit, MO 64064 Lee's Summit, MO.This project consists of a Commercial Development of approximately 5.57 acres on a 29.35 acre parcel, with the site generally sloping from N & W. The existing runoff coefficient (C) for the site is 0.3. The proposed runoff coefficient (C) for the site is 0.35. 10024-Greenton-Urban land complex with slopes ranging from 5 to 9 percent, with a hydrologic soil group D, and land classification of Loess Upland Prairie with Grass/Prairie

#### **OWNER INFORMATION**

Owner Name: Balderston

Owner Address 3200 NW South Outer Road Lee's Summit, MO

#### **SEQUENCE OF MAJOR EVENTS**

The order of activities will be as follows:

1. Install perimeter silt fence, construction entrances, & inlet protection.

- 2. Clear and grub areas to be disturbed.
- 3. Demolition: Building, utilities, pavement, etc.
- 4. Rough grade site.
- 5. Utility installation.

- 6. Finish grade site.
- 7. Building construction.
- 8. Construct concrete curbs, entrances, sidewalks, & asphalt pavement.
- 9. Stabilize site (seeding & landscaping).
- 10. Remove erosion control BMP's.

#### **RESPONSIBLE PARTIES:**

Individual/Company: Phone Number: Service Provided:
Capital Construction Services, L.L.C. 916-277-8282 General Contractor

Erosion Control Contractor/Inspector
SWPPP Revisions/Maintenance
Stabilization

#### **RECEIVING WATERS:**

The entire site drains to a tributary to Lakewood Lake. Project is not located within the jurisdiction of an MS-4. The receiving water is not on the 303(d) list. No pollutants need to be addressed. This specific project or general construction activity is not identified on 303(d) list or associated assumptions and allocations identified in the TMDL for the discharge. There are no additional controls implemented.

#### ATTAINMENT OF WATER QUALITY STANDARDS AFTER AUTHORIZATION

- The permittee must select, install, implement, and maintain BMPs at the construction site that minimize a. pollutants in the discharge as necessary to meet applicable water quality standards. In general, except in situations explained below, the SWPPP developed, implemented, and updated to be considered as stringent as necessary to ensure that the discharges do not cause or contribute to an excursion above any applicable water quality standard.
- b. At any time after authorization, the Department may determine that the stormwater discharges may cause, have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, the Department will require the permittee to:
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	otaridard: II od	or a determination is made, the Bepartment will require the pe	minuos to.	
	i.	Develop a supplemental BMP action plan describing SWPI adequately the identified water quality concerns and subminformation that are representative of ambient conditions a water is attaining water quality standards; or	it valid and verifi	able data and
	ii.	Cease discharges of pollutants from construction activity a application	nd submit an ind	dividual permit
	and agree to follow ter authorization.	w the above text regarding the attainment of water quality	Yes☑	No□
		STORMWATER CONTROLS		
	Initial Site Stabi	lization, Erosion, and Sediment Controls and Best Manag	ement Practice	s
a.		ilization: Site will only be initially disturbed as necessary to co acre of land should be disturbed in the process.	nstruct pre-clea	ring BMPs.
b.		diment Controls: BMPs include temporary construction entral tlet protection, native vegetation swales and bioretention cells		interior silt
C.	•	ections or other information indicates a control has been iately or incorrectly, the operator will replace or modify the situations:	Yes⊻	No□
d.	Off-site accumuto minimize off-	lations of sediment will be removed at a frequency sufficient site impacts:	Yes☑	No□
e.		e removed from sediment traps or sedimentation ponds apacity has been reduced to 50%:	Yes☑	No□
f.		tion debris, and construction chemicals exposed to Il be prevented from becoming a pollutant source for charges:	Yes⊻	No□
g.		l storage areas used solely by the permitted project are by this SWPPP:	Yes☑	No□
	Any potential o	off-site storage areas used by the permitted project will be det be protected by silt fencing or other appropriate Bl		tractor and will
		Stabilization Practices		
a.	protection), the	I Schedule: After initial BMP installation (perimeter silt fence, site will be cleared, grubbed, and graded. All BMPs will be me project and site stabilization.		
b.	from any name fifty (50) feet fro the 303 (d)-list,	All proposed grading activities at least twenty-five (25) feet d or unnamed streams. Grading activities are also at least om any established TMDL water bodies, streams listed on Extraordinary Resource Waters, Ecologically Sensitive nd Natural and Scenic Waterways.	Yes⊡	No 🗆
C.		ecords: A record of the dates when grading activities occur, ion activities temporarily or permanently cease on a portion	_	_

of the site, and when stabilization measures are initiated shall be included

with the plan. (see below)

Yes⊡

No □

WORK TRACKING (ATTACH ADDITIONAL SHEETS IF NEEDED)				
	Description	Date Begun	Date Complete	
Major Grading Activity				
Construct. Activity Cessation	Description	Date Begun	Date Complete	
Stabilization Measure(s)	Description	Date Begun	Date Complete	

- d. Stabilization Schedule: Except as provided below, stabilization measures must be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the **construction activity** in that portion of the site has temporarily or permanently ceased.
  - i. Where stabilization by the 14<sup>th</sup> day is precluded by snow cover or frozen ground conditions, stabilizations measures must be initiated as soon as practicable.
  - ii. Where **construction activity** on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the site.
  - iii. In semiarid and drought-stricken areas where initiating perennial vegetative stabilization measures is not possible within 14 days after **construction activity** has temporarily or permanently ceased, final vegetative stabilization measures must be initiated as soon as practicable.

#### **Erosion Control Practices**

	<b>✓</b>	Silt Fence	<b>✓</b>	Seeding/mulching	
	<b>✓</b>	Sediment Basin	<b>✓</b>	Temporary construction entra	nce
		Straw bales	V	Ditch checks	
	<b>✓</b>	Inlet Protection		Other:	
		Structural Pra	ctices		
Structural cont		e illustrated in the construction plan.	Structural co	ontrols that will be used during o	construction
a.		iles: Filter fabric fences or straw bale	es around ter	mporary earth stockpiles while t	hey are in
b.		<b>Inlets:</b> Straw bales or filter fabric fer le inlets are stabilized.	nce around s	torm sewer inlets until all distur	bed areas
C.	Trench Excav	vation: Trench excavation spoils not	immediately	hauled off will be backfilled into	the trenches
		Other Conti	ols		
a.		s, including building materials, shall t Waters of the State:	oe prevented	from being Yes ☑	No □
b.		e tracking of sediments and the gene ninimized through the use of:	eration of	A stabilized construction entrance and exit	V
				Vehicle tire washing	<b>V</b>
				Other controls, describe	
	Con	ntractor will be responsible for cleanu	p of all offsit	e sediment created by this proj	ect.
C.		nitary Facilities: All sanitary waste waste waste management			
d.	Concrete Was	ste Area Provided:		Yes	<b>V</b>
				No	
				N/A	
e.		Areas: Fuel tanks will be placed in b emporary Construction Entrances	ermed areas	if kept onsite. Truck Washing	shall only

Non-Stormwater Discharges						
a.	<ul> <li>The following allowable non-stormwater discharges comingled with stormwater are present or anticipated at the site:</li> </ul>					
	Fire-fighting acti	vities;	<b>V</b>	Routine external building use detergents, etc.;	wash down whic	h does not
V	Fire hydrant flus	hings;	V	Pavement wash waters we hazardous materials have spilled materials have be detergents, etc. are not use	e not occurred (un en removed) and	nless all
V	Water used to w (where detergen used) or to contr	ts, etc. are not	V	Uncontaminated air cond condensate;	litioning, compres	ssor
V	Potable water so uncontaminated flushings;	-		Uncontaminated springs, groundwater;	excavation dewa	atering and
V	Landscape Irriga	ation;	V	Foundation or footing dra contaminated with proces		
b.				appropriate sediment diment discharged from	Yes⊻	No□
		Post Construc	ction Stormw	vater Management		
				ntrol pollutants in stormwat and gutter, storm piping, s		
		Applicabl	e State or Lo	ocal Programs		
	•	necessary to reflect a affect the stormwater	-	to applicable federal, lemented at the site.	Yes ☑	No □
			Inspection	าร		
a.	Inspection freque	ency:	-			
		Every 7 calendar d	ays or			
	At least once every 14 calendar days and within 24 hours of the end of storm event 0.5" or greater (a rain gauge must be maintained on-site)					
b.	Inspections: Co kept within the S	mpleted inspection fo	orms will be			
	<b>✓</b>	Inspection forms, i	ncluded, will l	be used		
<ul> <li>Inspection records will be retained as part of the SWPPP for at least three years from the date of termination.</li> </ul>						
	abla					
d. It is understood that the following sections describe waivers of site inspection requirements. All applicable documentation requirements will be followed in accordance with the referenced sections:						
	V	Winter Conditions (see <i>Stabilization F</i>	Practices)			
Adverse Weather Conditions (see Stabilization Practices)						

#### Maintenance

Describe measures installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed: Concrete curb and gutter, storm piping, silt fence, sediment basin, rock

#### **Erosion and Sediment Control inspection and Maintenance Practices**

These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls. The stormwater pollution prevention plan controls and measures contained, indicated and outlined herein are based on accepted standards and good engineering practice. Erosion control measures shall be installed in accordance with the plan details, State and Local standards, and quality construction practice.

- Pollution prevention measures constructed on the site shall be inspected and a report shall be written by a
  qualified representative of the property once every fourteen (14) calendar days and within 24 hours of a
  rainfall event measuring 0.5 inches in a 24-hour period. Inspection and reporting at this rate shall continue
  until final stabilization is completed and henceforth at a monthly interval until a Notice of Termination is
  accepted by the appropriate authority.
- The site will be disturbed only as necessary and phased as needed to minimize effects.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 72 hours of the report.
- Built-up sediment will be removed from silt fence and inlet protection when it has reached one-third the height of the structure.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence
  posts, and to see that the fence posts are firmly in the ground.
- Construction Entrances shall be cleaned, turned over, or rock excavated and replaced when the rock becomes clogged with silt. Under no circumstances are soils to be permitted to be tracked off-site.
- Disturbed areas shall be stabilized with mulch or similarly effective soil stabilization BMP's whenever soil
  disturbing activities have permanently ceased or temporarily ceased and will not resume for a period
  exceeding 14 days. Stabilization is to be initiated immediately when the soil disturbing activities cease, with
  initial stabilization activities to be completed within 21 days.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached.
- The site superintendent will select individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance reports.
- Personnel selected for inspection and maintenance responsibilities will receive training from the site superintendent. They will be trained by the superintendent in all the inspection and maintenance practices necessary for assessing effectiveness and keeping the erosion and sediment controls used onsite in good working order.

#### **Employee Training**

The Contractor shall train personnel who are responsible for implementing activities identified in the SWPPP on the components and goals of the SWPPP and the requirements of the general permit. This includes contractors and subcontractors. Training will be given by a knowledgeable and qualified trainer. Formal training shall be at the start of construction and monthly thereafter, with pertinent discussions and training opportunities about the SWPPP and issues/changes as necessary between training sessions. Records of formal training shall be maintained within the SWPPP. Training records that are maintained electronically (i.e. database, etc) do not need to be maintained within the SWPPP but must be accessible upon request.

\*\*\*Formal training classes given by Universities or other third-party organizations are not required but recommended for qualified trainers; the Contractor is responsible for the content of the training being adequate for personnel to implement the requirements of the SWPPP.

#### **Inventory for Pollution Prevention Plan**

The following materials or substances are expected to be present onsite during construction:				
	Fertilizer		Petroleum Based Products	
	Cleaning Solvents	<b>✓</b>	Masonry Block	
<b>V</b>	Tar	<b>✓</b>	Wood	
<b>V</b>	Concrete	<b>✓</b>	Metal Studs	
	Paints		Detergents	
	Roofing Shingles		Other:	

#### **SPILL PREVENTION**

#### **Material Management Practices**

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

#### Good Housekeeping:

An effort will be made to store only enough material required to do the job. All materials stored on site will be stored in a neat, orderly manner in their appropriate containers in a covered area. If storage in a covered area is not possible, the materials will be covered with polyethylene or polypropylene sheeting to protect them from the elements. Products will be kept in their original containers with the original manufacture's label affixed to each container. Substances will not be mixed with one another unless the manufacturer recommends this. Whenever possible, all of a product will be used prior to disposal of the container. Manufacturer's recommendations for proper use of disposal will be followed. The site superintendent will inspect the site daily to ensure proper use and disposal of materials on site. Any excavated earth that will not be used for fill material and all demolished pavement will be hauled off site immediately and will be disposed of properly.

#### **Waste Materials:**

All trash and construction debris from this site will be hauled to an approved landfill. No construction waste material will be buried or burnt on the site. All personnel will receive instructions regarding the correct procedure for waste disposal. Notices describing these practices will be posted in the construction office. The site superintendent will be responsible for seeing that these procedures are followed. Employee waste and other loose materials will be collected so as to prevent the release of floatables during runoff events.

#### **Hazardous Products:**

No hazardous waste is expected to be generated or encountered in this project. In the event that hazardous waste is encountered, all hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. The site superintendent will be responsible for seeing that these practices are followed.

These practices are used to reduce the risks associated with hazardous materials. Products will be kept in original containers unless they are not re-sealable. Original labels and material safety data sheets will be retained; they contain important product information.

#### **Sanitary Waste:**

Portable sanitary units will be provided for all workers throughout the life of the project. A licensed sanitary waste management contractor will regularly collect all sanitary waste from the portable units.

#### **SPILL PREVENTION (Continued)**

#### **Product Specific Practices**

The following product specific practices will be followed onsite:

#### **Petroleum Products:**

All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

#### Concrete:

Concrete is considered to be a water contaminant and, therefore, is subject to the standards mentioned above. It is illegal to dispose of concrete in any waters of the state or to place, cause, or permit concrete to be placed in a location where it is reasonably certain to cause pollution to any water of the state.

#### Paints:

All containers will be tightly sealed and stored when not required for use. Excess paint will not be poured into the storm sewer system but will be properly deposed of according to manufacturer's instruction or state and local regulations.

#### Fertilizers:

Fertilizers used will be applied only in minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed or other appropriate enclosure. The contents of any partially used bags of fertilizers will be transferred to a sealable plastic bin to avoid spills.

#### **Spill Control Practices**

In addition to the good housekeeping and material management practices discussed in the previous sections of the plan, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' methods for spill cleanup will be clearly posted and site personnel will be made aware of the
  procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite.
   Equipment and materials may include but not be limited to brooms, dust pans, maps, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of size.
- The spill prevention plan will be adjusted to include measures to this type of spill from reoccurring and how
  to clean up the spill if there is another one. A description of the spill, what caused it, and cleanup measures
  will also be included.
- The site superintendent responsible for the day-to-day site operations will be the spill prevention and cleanup coordinator. He will designate site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The name of responsible spill personnel will be posted in the material storage area and in the office trailer onsite.

#### POLLUTION PREVENTION PLAN CERTIFICATION

#### **Attainment of Water Quality Standards After Authorization**

- The permittee must select, install, implement, and maintain BMPs at the construction site that minimize a. pollutants in the discharge as necessary to meet applicable water quality standards. In general, the SWPPP developed, implemented, and updated to be considered as stringent as necessary to ensure that the discharges do not cause or contribute to an excursion above any applicable water quality standard.
- At any time after authorization, the Department may determine that the storm water discharges may cause, b. have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, the Department will require the permittee to:
  - nit

i. ii. I understand and agree to follo	Develop a supplemental BMP action plan describe Cease discharges of pollutants from construction the above text regarding the attainment of water quantum construction in the above text regarding the attainment of water q	activity and submit an individual permit
Signed:	Name:	
Owner		
Date:	CONTRACTOR'S CERTIFICATION	
	we that I understand the terms and conditions of the opermit that authorizes the storm water discharges as construction site identified as part of this certific For:	ssociated with industrial activity from the
 Name	Capital Construction Services, L.L.C.	Earthwork Contractor Erosion Control Contractor
Signature	2642 NE Hagen Rd, Lee's Summit, MO 64064 Lee's Summit, MO	Erosion Control Inspector SWPPP Maintenance Stabilization
Date		

#### 1. Temporary Berms

A temporary berm is a temporary ridge of compacted soil, with or without a shallow ditch constructed at the top of fill slopes or transverse to center line on fills. The purpose of these ridges is to divert storm runoff from small areas away from steep slopes and direct this water to temporary outlets where the water can be discharged with minimum erosion. These ridges are used temporarily at the top of newly constructed slopes to prevent excessive erosion until permanent controls are installed and/or slopes are stabilized. They are also used to transverse to grade to divert runoff to stabilized slope drains.

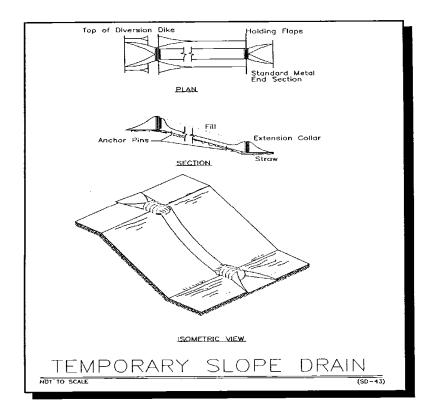
Temporary berms will be used at the end of each day's operation on embankments, as well as when embankment operations are shut down over the winter season.

Temporary berms must drain to a compacted outlet at a slope drain. The top width of these berms may be wider and the side slopes flatter on transverse berms to allow equipment to pass over these berms with minimal disruption.

#### 2. Temporary Slope Drains

A temporary slope drain is used to carry water down slopes to reduce erosion and consists of stone, concrete or asphalt gutters, half-round pipe, metal pipe, plastic pipe, or flexible rubber pipe. Temporary slope drains are required to carry water flowing from cut sections down the fill slopes prior to the time permanent facilities are installed. Temporary slopes drains are required on fill slopes at approximately 500-foot intervals or as directed by the engineer.

All temporary slope drains will be adequately anchored to the slope to prevent disruption by the force of the water flowing in these drains. The inlet end will be properly constructed to channel water into the temporary drain. The outlet ends will have some means of dissipating the energy of the water to reduce erosion downstream. Unless otherwise specified, all temporary slope drains will be removed when no longer necessary and the site will be restored to match the surroundings.



#### 3. Ditch Checks

There are three types of ditch checks that can be used – rock, straw bale, and silt fence.

Rock ditch checks shall be placed according to the plans. They shall be checked for sediment accumulation after each significant rainfall. Sediment shall be removed when it reaches one-half of the original height or before. Sediment removal will include removal and disposition in a location where it will not erode into construction areas or water courses. Regular inspections shall be made to ensure that the center of the check is lower than the edges. Erosion caused by high flows around the edges of the check shall be corrected immediately.

For straw bale ditch checks, sediment deposits shall be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier. Sediment removal will include removal and disposition in a location where it will not erode into construction areas or water courses.

For silt fence ditch checks, sediment deposits shall be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier. Sediment removal will include removal and disposition in a location where it will not erode into construction or water courses.

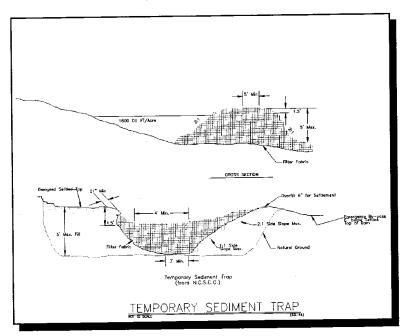
#### 4. Sediment Basin

A sediment basin is an excavated or dammed storage area with rock riprap placed in inlet and outlet areas with defined side slopes. Sediment basins are constructed to trap and store sediment from erodible areas in order to protect properties and streams channels below the installation from excessive siltation. These structures trap and store sediment that occurs in spite of temporary erosion control measures

A sediment basin is required for each drainage area with 10 or more areas disturbed at one time. The area where a sediment basin is to be constructed shall be cleared of vegetation to enable removal of sediment. The inlets of these sediment basins shall be constructed with a wide cross section and minimum grade to prevent turbulence and allow deposition of the soil particles. When the depth of sediment reaches 1/3 of the depth of the structure in any part of the pool, all accumulation shall be removed. Discharges from the basin shall not cause scouring of the receiving area.

Sediment basins shall normally remain in service until all disturbed areas draining into the structure have been satisfactorily stabilized, when use of temporary sediment basins is to be discontinued, all excavations are to be backfilled and properly compacted, fill materials removed, and the existing ground restored to its natural or intended conditions.

Removed accumulated sediment and excavated material removed during construction of the sediment basin shall be disposed of in locations where sediment will not again erode into the construction areas or into natural waterways.



#### 5. Temporary Seeding And Mulching

This work shall consist of preparing and fertilizing a seedbed, furnishing and sowing of seed, and mulching. The purpose of temporary seeding and mulching is to produce a quick ground cover to reduce erosion in disturbed areas that are expected to be redisturbed at a later date.

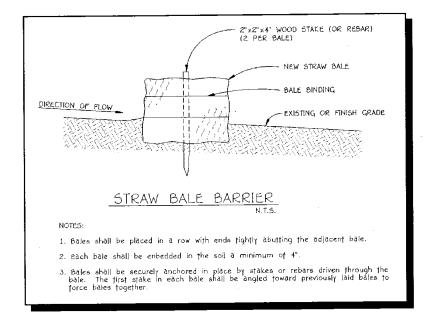
Seeding and /or mulching will be a continuous operation on all cut and fill slopes, waste sites, and borrow pits during the construction process. All disturbed areas shall be seeded and mulched when and where necessary to eliminate erosion. Seeding and/or mulching

shall be done as soon as possible after completion of the earthwork, not to exceed 14 days, weather permitting.

#### 6. Straw Bales

Bales of straw can be used as a means of controlling pollution and erosion. The straw bales obstruct the flow of water allowing deposition of sediment and/or diversion of water.

This method is typically used at the bottom of embankment slopes to divert runoff from sheet flow and trap sediment, as a ditch check in small ditches and drainage areas, and on the lower side of the cleared areas to catch sediment from sheet flow. When used to trap sediment or divert runoff, the bales must be braced from behind, when used a ditch check, embedment is required. Straw bales are most effective in areas where there is overland flow (runoff that flows over the surface of the ground as a thin, even layer). It is not effective in areas where there is a large volume runoff.



#### 7. Silt Fence

Use of a silt fence consists of furnishing, installing, maintaining, and removing a geotextile barrier fence designed to remove suspended particles from water passing through the fence. Materials used for silt fences must meet certain requirements.

There are several construction requirements for silt fences. Fence construction shall be adequate to handle the stress from hydraulic and sediment loading. Geotextile at the bottom of the fence shall be buried. The trench shall be backfilled and the soil compacted over the geotextile. The geotextile shall be spliced together as indicated on the standard drawings.

Post spacing shall not exceed 8 feet for wire support fence installations or 5 feet for self-supported installations. Posts shall be driven a minimum of 24 inches into the ground. Where rock is encountered, posts shall be installed in a manor approved by the engineer.

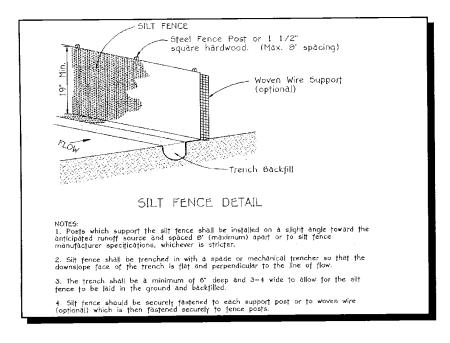
Closer spacing, greater embedment depth and/or wider posts shall be used as necessary in low areas and soft or swampy ground to ensure adequate resistance to applied loads.

When support fence is used, the mesh shall be fastened securely to the up-slope side of the post. The mesh shall extend into the trench a minimum of 2 inches and extend a maximum of 36 inches above the original ground surface. When self-supported fence is used, the geotextile shall be securely fastened to fence posts.

The integrity of silt fences must be maintained for as long as they are necessary to contain sediment runoff. All temporary silt fences shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any deficiencies shall be immediately corrected. In addition, a daily review of the location of silt fences should be made in areas where construction activities have changed the natural contour and drainage runoff to ensure that the silt fences are properly located for effectiveness, where deficiencies exist, additional silt fences shall be installed as approved or directed by the engineer.

Sediment deposits shall be removed and disposed of when the deposit approaches one-half the height of the fence or sooner. If required by heavy sediment loading, a second silt fence shall be installed as directed by the engineer.

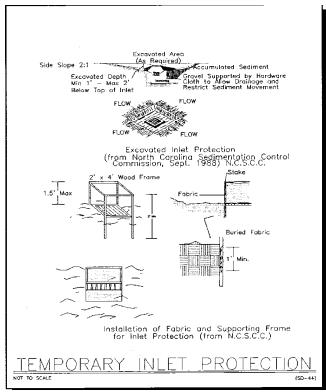
The silt fence shall remain in place until the engineer directs that it be removed. Upon removal, the contractor shall remove and dispose of any excess silt accumulations, grade and dress the area to the satisfaction of the engineer, and establish vegetation on all bare areas.

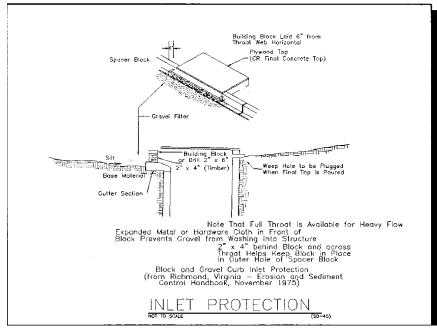


#### 8. Temporary Pipe

A temporary pipe is a conduit used temporary to carry water under a haul road, silt fence, etc. It is used to convey normal and expected high flows at temporary stream crossings, preventing the contractor's equipment from coming in direct with the water when crossing active streams or intermittent streams created during heavy rainfalls.

All temporary pipe shall be installed in the same manner as permanent pipe is installed on the project to assure that the water does not cause erosion around the pipe. Material to backfill the pipe should be placed in six inch lifts and mechanically compacted, although a compaction test is not required.





## **Automotive Sales & Detail Center INSPECTION LOG** Scheduled or Rainfall Rainfall Since Last Report **Date of Inspection** Inspector Event?

# **Automotive Sales & Detail Center** TRAINING LOG Date Trainer **Items Covered**

## Automotive Sales & Detail Center STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM A

#### TO BE COMPLETED EVERY 14 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE INPECTION FORM B TO BE COMPLETED WITH THIS FORM

Inspector Name: Inspector Title:		Date of Inspection:			
Date of Last Rainfall:					
Days since last rain event:	days	Rainfall since la	ast rain event: _		inches
Description of any discharges during	g inspection:				
Location of discharges of sediment/o	other pollutant (specify <sub>l</sub>	oollutant & locati	ion):		
Locations in need of additional BMP	's:				
Information on Location of Construction	tion Activities				
Location	Activity Begin Date	Occurring Now (y/n)?	Ceased Date	Stabilization Initiated Date	Stabilization Complete Date
Information on BMPs in Need of Ma	intenance				
Location	In Working Order?	Maintenance Date	Maintenance Date		enance to rformed By
					-
Changes required to the SWPPP (F	orm C Required):	-	-	-	
Reasons for changes:					
SWPPP changes completed (date):					
"I certify under penalty of law that direction or supervision in accor evaluate the information submit persons directly responsible for g belief, true, accurate, and complete.	this document and all a rdance with a system de ted. Based on my inqui athering the information	attachments such esigned to ensur ry of the person n, the information are significant p	h as Inspection te that qualified p or persons who n submitted is, to enalties for subi	Forms were prepersonnel prope manage the system to the best of my mitting false info	orly gather and stem, or those knowledge and
Signature of Responsible or Cogniza	ant Official:			Date:	· · · · · · · · · · · · · · · · · · ·
Name and Title					

## Automotive Sales & Detail Center STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM B (EROSION CONTROL/MATERIAL STORAGE)

TO BE COMPLETED EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE TO BE COMPLETED AND INCLUDED WITH FORM A

Date and Time:			
Weather:			
Name and Title:			
Inspector Qualification:			
Weather since last report:			
Rain?	Depth?	Duration?	
Stabilized Construction E	ntrances		
Does much sedime	-	the entrance clean or	Does all traffic use the
tracked on the ro	ads? is	it filled with sediment?	entrance to leave the site?
Maintenance Required for S	Stabilized Construction Entranc	ce(S):	
To be perfomed by:		On or before: _	
Silt Fencing			
Depth of Sediment?	Condition of Fence?	Any evidence of overtopping?	Condition of downstream channel?
Maintenance Required for S	Silt Fencing:	<u> </u>	
To be perfomed by:		On or before: _	
Native Vegetaion Swale/B	ioretention Swale		
Depth of Sediment?	Condition of Embankments	? Condition of Overflow Weir?	Condition of Downstream Channel?
А			
В			
С			
D			
E			
Mainenance Required Vege	etation Swale/Bioretention Cell	:	
To be perfomed by:		On or before:	

Note: If site inspections identify measures that are not operating. Any delay in the replacement or maintenance of measures beyond seven (7) calendar days shall be documented in the SWPPP with sufficient detail as to explain the reason for delay.

#### **Automotive Sales & Detail Center**

#### STORM WATER POLLUTION PREVENTION PLAN C (SWPPP MODIFICATION)

#### **INSPECTION AND MAINTENANCE REPORT FORM**

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:	
REASONS FOR CHANGES:	
I certify under penalty of law that this document and all attachments were pre- accordance with a system designed to assure that qualified personnel proper submitted. Based on my inquiry of the person or persons who manage the s gathering the information, the information submitted is, to the best of my known I am aware that there are significant penalties for submitting false information imprisonment for knowing violations.	rly gathered and evaluated the information system, or those persons directly responsible for wledge and belief, true, accurate, and complete.
Signature of Responsible or Cognizant Official:	Date:
Name and Title:	

If existing erosion control measures need to be modified or if additional measures are necessary for any reason, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event, the situation must be documented in the SWPPP and alternative BMP's implemented as soon as possible.