

Stormwater Pollution Prevention Plan

"I certify under penalty of law 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Operator and/or Responsible Authority)

Date

Project Name and location information:	Matlacha Shops 4613 Pine Island Road NW Matlacha, FL 33933
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Please refer to the enclosed site map which contains, at a minimum, the following information:

1. Drainage patterns,
2. Approximate slopes after major grading activities,
3. Areas of soil disturbance,
4. Outline all areas that are not to be disturbed,
5. Location of all major structural and non-structural controls,
6. The location of expected stabilization practices,
7. Wetlands and surface waters, and
8. Locations where stormwater may discharge to a surface water or MS4.

Site Description

<p>Describe the nature of the construction activity:</p>	<p>Construction of a +/- 3,850 SF commercial building, asphalt parking, drainage system including dry detention and associated utilities.</p>
<p>Describe the intended sequence of major soil disturbing activities:</p>	<ol style="list-style-type: none"> 1. Installation of stabilized construction entrance. 2. Partial clearing and grubbing. 3. Install perimeter berm(s) or silt fences with synthetic bale barrier(s). 4. Continue clearing and grading. 5. Stockpile excavated soil. 6. Stabilize denuded areas and stockpiles within 7 days of last construction activity in that area. 7. Install utilities, storm sewer, curb and gutter. 8. Complete grading, subgrade and base course construction. 9. Complete final paving. 10. Complete landscape grading and install permanent seeding and plantings. 11. When all construction activity is complete and the site is stabilized, remove temporary earth berms, synthetic bale barriers and filter fences and re-seed any areas disturbed by their removal. <p>To be completed by Contractor/Subcontractor(s): 1, 2, & 3</p>
<p>Total area of the site:</p>	<p>0.33 Acres</p>
<p>Total area of the site to be disturbed:</p>	<p>0.33 Acres</p>
<p>Existing data describing the soil or quality of any stormwater discharge from the site:</p>	<p>All stormwater discharge from the site will be treated and stored in the established dry detention area.</p>
<p>Estimate the drainage area size for each discharge point:</p>	<ol style="list-style-type: none"> 1. 0.33 acres

Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	1. Onsite wetlands 26.374335°N 82.041544°W
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Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, FDOT, FDEP (2007) and any subsequent amendments.

- Prior to construction activities, a silt fence (trenched 4 inches deep, backfilled, and compacted), shall be installed around the perimeter of the site. Type III Silt Fence to be used unless otherwise specified.
- Stabilize all disturbed areas and topsoil stockpiles where construction activity temporarily ceases for 7 or more days. Stabilize with seed shall be Bahia, Millet, Rye, or other fast-growing grasses unless specified or indicated elsewhere. Prior to seeding, apply fertilizer or agricultural limestone to each area to be stabilized. After seeding, apply mulch and disk into place. Stabilize areas of the site which will be paved by applying crushed stone subbase and maintain until placement can be applied. Stabilize fill material stock piles which will not be utilized for at least 7 days with temporary seed no later than 7 days from the last placement of fill in that stockpile area. Apply Rye (grain) Grass seed at the rate of 120 pounds per acre.
- After the initial site grading work, all proposed inlet(s)/outfalls, once installed, shall be protected from erosion and sediment runoff by the use of filter fabric and properly installed synthetic haybales as indicated. Stabilize disturbed portions of the site, where construction activities have been completed with sod, seed, mulch, landscaping, or other equivalent stabilization measures such as rip-rap or geotextiles no later than 7 days after the date of the last construction activity. Unless specified or shown elsewhere, sod shall be Floratam, Bahia, or other types of approved sod. Prior to sodding, apply fertilizer or agricultural limestone. When seed is used, apply mulch and disk into place.
- All installation shall be commenced as depicted on the attached SWP3 plan sheet and follow typical guidelines for installation practices.

To be completed by Contractor/Subcontractor(s): 1, 2, & 3

Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc.

Temporary Stabilization: Top soil stock piles and disturbed portions of the site where construction activity temporarily cease for at least 7 days will be stabilized with temporary seed and mulch no later than 7 days from the last construction activity in that area. The seed shall be Bahia, millet, rye, or other fast-growing grasses. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place. Areas of the site which will be paved will be temporarily stabilized by applying limerock subgrade until bituminous pavement can be applied.

Permanent Stabilization: Disturbed portions of the site, where construction activities permanently cease, shall be stabilized with sod, seed and mulch, landscaping, and/or other equivalent stabilization measures (e.g., rip-rap, geotextiles) no later than 7 days after the date of the last construction activity. The sod shall typically be Floratam or Bahia sod. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place.

To be completed by Contractor/Subcontractor(s): 1, 2, & 3

Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.

Silt Fence / Synthetic Bale Barrier - will be constructed along those areas of the project that border adjacent wetlands or lakes – if applicable.

Synthetic Bale Drop Inlet Sediment Filter - will be placed around all constructed storm drain inlets immediately upon completion of construction and shall remain in-place until the contributing drainage area is stabilized. Alternatively, grate inlets can be covered with filter fabric material until stabilization. Any dewatering activities will be required to either contain water in onsite impoundments, which will qualify as sediment basins, or discharge to adequately sized sediment basins prior to discharge.

Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.

A sediment basin is not proposed as this site is less than 10 acres.

Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process.

Describe in detail controls for the following potential pollutants

<p>Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:</p>	<p><u>Waste Materials:</u> All waste materials will be collected and stored in a trash dumpster which will meet all local and State solid waste management regulations. All trash and construction debris from the site will be deposited in this dumpster. The dumpster will be emptied as required due to use and/or State and local regulations, with the trash disposed of at the appropriate landfill operation. No construction waste materials will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted in the construction office trailer.</p> <p><u>Hazardous Waste:</u> All hazardous waste materials will be disposed of in the manner specified by local or State regulation or by the manufacturer. Site personnel will be instructed in these practices.</p> <p><u>Sanitary Waste:</u> All sanitary waste will be collected from the portable units by a local, licensed, Lee County sanitary waste management contractor, as required by local regulation.</p>
<p>Offsite vehicle tracking from construction entrances/exits:</p>	<p>A stabilized construction entrance will be provided to help reduce vehicle tracking of sediments. As they are completed, paved areas will be swept as needed to remove any excess muck, dirt, or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin.</p>
<p>The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:</p>	<p>Fertilizer shall be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer shall be worked into the soil to limit exposure to stormwater. Fertilizer to be stored in a covered shed. The contents of any partially used bags of fertilizer shall be transferred to a sealable plastic bin to avoid spills.</p>

<p>The storage, application, generation and migration of all toxic substances:</p>	<p>Products will be kept in original containers unless they are not re-sealable. Original labels and material safety data will be retained; they contain important product information. If surplus product must be disposed of, dispose in accordance with manufacturer recommendations and governmental requirements. Manufacturers recommend methods for spill cleanup shall be clearly posed, and site personnel shall be made aware of the procedures and the location of the information and cleanup supplies. Materials and equipment necessary for spill cleanup shall be kept in the material storage area on-site. Equipment and materials shall include be not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose. All spills shall be cleaned up immediately after discovery.</p>
<p>Other:</p>	<p>Port-o-lets will be placed away from storm sewer systems, storm inlet(s), surface waters and wetlands. No vehicle maintenance shall be conducted on-site. A wash-down area shall be designated at all times and will not be located in any area that will allow for the discharge of polluted runoff. A small-vegetated berm shall be placed around the wash-down area.</p>

Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.

Contractor shall provide routine maintenance of permanent and temporary sediment and erosion control features in accordance with the technical specifications or as follows, whichever is more stringent:

- All control measures shall be inspected at least once every 7 calendar days and within 24 hours following any storm event of 0.50 inch or greater.
- All measures shall be maintained in good working order; if repair is necessary, it shall be done in a timely manner, but in no case later than 7 calendar days following the inspection.
- Built up sediment shall be removed from silt fence when it has reached one-third the height of the fence.
- Silt fence shall be inspected for depth of sediment, breaches, to see if the fabrics is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- The sediment basin shall be inspected for depth of sediment, and built up sediment shall be removed when it reaches 10 percent of the design capacity or 0.5 feet and at the end of construction.
- Diversion berm (if constructed) shall be inspected and any breaches promptly repaired.
- Temporary and permanent seeding and planting shall be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report shall be made after each inspection on an approved report form.
- Maintain all other areas of the site with proper controls as necessary.

To be completed by Contractor/Subcontractor(s): 1

Inspections: Describe the inspection and inspection documentation procedures, as required by Part V.D.4. of the permit. Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater (see attached form).

- The contractor will provide a qualified inspector who shall inspect all points of discharge into surface waters of the state or a municipal storm sewer system, disturbed areas of construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural controls, and locations where vehicles enter or exit the site.
- All control measures shall be inspected at least once every 7 calendar days and within 24 hours following any storm event of 0.50 inch or greater.
- Where sites have been finally stabilized, said inspections shall be conducted at least once every month until the Notice o Termination is filed.

Identify and describe all sources of non-stormwater discharges as allowed in Part IV.A.3. of the permit. Flows from fire fighting activities do not have to be listed or described.

It is expected that the following non-stormwater discharges will occur from the site during the construction period:

- Water from water line flushing
- Pavement wash waters (where no spills or leaks or toxic or hazardous materials have occurred)

All non-stormwater discharged shall be directed to the stormwater management facilities prior to discharge.

This SWPPP must clearly identify, for each measure identified within the SWPPP, the contractor(s) or subcontractor(s) that will implement each measure. All contractor(s) and subcontractor(s) identified in the SWPPP must sign the following certification:

“I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder.”

Name	Title	Company Name, Address and Phone Number	Date
TO BE DETERMINED			

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: _____

FDEP NPDES Stormwater Identification Number: _____

Location	Rain data	Type of control (see below)	Date installed / modified	Current Condition (see below)	Corrective Action / Other Remarks

Condition Code:

G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement
 C = Needs to be cleaned O = Other

Control Type Codes

1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention basin
4. Swale	13. Retention Basin	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Geohay inlet filters	34. Other
8. Pipe slope drain	17. Paved road surface	26. Geotextile	
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

Inspector Information:

Name -

Qualification -

Date -

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

"I certify under penalty of law 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Responsible Authority):

Date: