Stormwater Pollution Prevention Plan

KING AIR NATION

KING AIR
NATION

PRIVATE RUNWAY CONSTRUCTION
200 JETPORT ROAD
Rankin County, Mississippi

October 2024

Under Mississippi's
Large Construction Stormwater General NPDES Permit

TABLE OF CONTENTS

FIGURES

ATTACHMENTS

1.0 INTRODUCTION

The following Stormwater Pollution Prevention Plan (SWPPP) has been prepared to assist in satisfying the conditions of the *Mississippi State of Mississippi Water Pollution Control Stormwater Large Construction General Permit*, and to provide a written plan for managing stormwater runoff during construction activities associated with construction of a private runway located in Rankin County, Mississippi. As required by the General Permit, a Large Construction Notice of Intent (LCNOI) has been completed and a copy of the signed LCNOI is included as **Attachment A**.

This SWPPP was prepared in accordance with the requirements set forth in the General Permit and federal regulations under the National Pollutant Discharge Elimination System (NPDES) Program. In general, this SWPPP describes the project background and physical setting of site (Section 2.0); outlines proposed construction activities at the site (Section 3.0); sets forth the proposed schedule for construction activities (Section 4.0); identifies potential pollutant sources which may reasonably be expected to affect the quality of stormwater discharges associated with construction activities (Section 5.0); describes control measures or "best management practices" (BMPs) which will be implemented to reduce potential pollutants in stormwater discharges (Section 6.0); describes the schedule for implementation (Section 7.0); measures for housekeeping and training (Section 8.0); schedule and procedures for inspection (Section 9.0); and maintenance procedures (Section 10.0); identifies discharge limitations (Section 11.0); and identifies reporting and recordkeeping procedures to be implemented (Section 12.0). A copy of this SWPPP shall remain at the permitted site throughout the construction activities covered under this permit.

2.0 PROJECT BACKGROUND/SITE DESCRIPTION

The project is located within rural areas of Rankin County, Mississippi. More specifically, the project site is located in the eastern portion of Section 17 in Township 7 North, Range 4 East of the *Goshen Springs Mississippi* Quadrangle. A site location map using portions of the 7.5 minute USGS topographic map is included in the Figures Appendix.

The project includes an approximately 4,000 feet long linear alignment averaging approximately 150 feet wide. The construction includes grading of surface soils to achieve adequately level grade for a runway and installation of asphalt surfacing. Perennial grasses will be established over the runway shoulders and adjacent areas are to be maintained with perennial grasses and existing vegetation.

The project area is a linear shaped transportation corridor containing an asphalt paved runway and associated shoulders and open drainage ditches. The surrounding areas consist predominately of undeveloped forestland with airfield facilities adjacent to the project area. Existing elevations across the site range from approximately 390 to 350 ft. Mean Sea Level (MSL). The site is located in the Pearl River Watershed, and runoff from the site drains to Clark Creek, thence Pelahatchie Creek, thence Pearl River and Ross Barnett Reservoir. Clark Creek in Rankin County is not listed on the current *303(d) List of Impaired Waterbodies*. The Pearl River has approved TMDLs for sediment that call for stormwater BMPs on construction sites, and the Ross Barnett Reservoir has low limits for allowable sediment due to use listings for contact recreation and drinking water supply. The site is not located in the vicinity of any designated Wild and Scenic Stream. The *Soil Survey* lists the soils of the site as somewhat poorly drained Kipling-Falkner association, undulating, silty clay and clay with high runoff rates.

According to records of the USDA for the period 1951-81, average annual rainfall for the area is in the amount of 55.43 inches per year. The project is scheduled to be conducted during the summer and fall months of 2024. Average monthly rainfall for the area is represented in the following table.

Month	Average Rainfall* (inches)
January	5.44
February	4.83
March	6.09
April	5.41
May	4.83
June	3.34
July	5.67
August	3.60
September	3.56
October	2.72
November	4.20
December	5.74

* Source: 30 year average, Pelahatchie Station
USDA Soil Survey

3.0 PROPOSED SITE IMPROVEMENTS

The site improvements include use of mechanized equipment for clearing and grubbing, grading, and installation of the asphalt surface. Stormwater measures include maintenance of stabilized construction entrances, vegetated buffers, perimeter controls, drainage structures, and final stabilization of the finished site. Figures included depict the locations of planned improvements and stormwater flow patterns.

Site improvement activities will include the following:

1. Conduct clearing and grubbing of linear runway site;

2. Site grading including excavation and fill of surface soils;

3. Establishment of grassed shoulders and drainage swales; and

4. Installation of asphalt surfacing.

4.0 PROJECT SCHEDULE

The owner plans to conduct construction activities beginning summer 2024. A preliminary schedule summary for construction activities is presented below. In the event sections of the project are completed on different schedules, the listed stormwater measures are to be required for the associated activity on any section of the project, regardless of the status of other sections.

Activity	Stormwater Measures	
	Initial	**Final**
Site Clearing and Grubbing	Perimeter controls, and diversions installed prior to major clearing commencing. Maintain perimeter controls down-gradient of area being cleared to intercept runoff.	Diversions to be installed to prevent runoff from entering disturbed areas. Vegetated buffers established along drains and site boundaries. Disturbed soils seeded.
Site Grading and Earthwork	Perimeter controls installed prior to major grading commencing.	Runoff from disturbed areas diverted to detention structures. Erosion checks and seeding to be installed as design grades are achieved. Shoulders, ditches, and banks stabilized and permanent vegetation installed on areas where grading is complete.
Runway Bed, Embankment, and Swales	Culverts and inlet/outlet protection installed prior to work commencing, perimeter controls and diversions to be maintained.	Erosion checks and seeding to be installed as design grades are achieved.
Installation of Asphalt Surface	Erosion checks and seeding to be installed prior to work commencing, inlet/outlet protection and perimeter controls to be maintained.	Permanent vegetation to be established and temporary measures removed for project completion.

5.0 POTENTIAL SOURCES OF STORMWATER POLLUTION

In order to complete the preceding construction tasks, certain onsite activities will be performed which have the potential to generate sources of stormwater pollution during a storm event. These activities include:

1. Heavy vehicle traffic to and from the site.
2. Clearing and grubbing of certain areas.
3. Grading and excavation of onsite soils.
4. Placement of fill materials.
5. Placement of asphalt materials.
6. Construction equipment maintenance and fueling.

Without proper control measures in-place, all of the onsite activities listed above could potentially introduce pollutants to stormwater during significant rain events. The primary pollutant of concern during construction at the site is suspended solids (i.e., silts, clays and other particulate materials) that can be eroded and transported offsite in stormwater runoff. Secondary pollutants of concern include the oil/grease from equipment maintenance and the fuel storage for equipment refueling. The proposed best management practices to minimize the potential for pollutants to impact stormwater runoff from the site are discussed in the following sections.

6.0 BEST MANAGEMENT PRACTICES

6.1 GENERAL

Various control measures will be implemented at the site during construction to prevent stormwater pollution and impacts to receiving waters. BMPs proposed for each of the construction activities are identified below, and proposed erosion and sediment controls are illustrated in the included Figures.

Onsite Activity	Control Measures (BMPs) to Prevent Stormwater Pollution
Heavy equipment and vehicle traffic	Limit work and traffic during wet periods. Restrict construction traffic from wet areas except where absolutely necessary. Maintain stabilized entrances and exits. Remove accumulated mud/dirt from vehicles before entering public roadways.
Clearing and grubbing	Install and maintain silt fencing and/or straw wattles in down-gradient locations and diversion berms in up-gradient locations. Maintain existing vegetation and vegetated buffers along drainage ways and around areas of disturbance. Revegetate disturbed areas immediately upon reaching design grades. Use temporary seeding and mulching for areas not to remain through construction, use permanent seeding and mulching for areas to remain during and after construction and for disturbed areas to remain at original contours.
Placement of fill materials and grading for runway installation	Install and maintain silt fencing and/or straw wattles in down-gradient locations and diversion berms in up-gradient locations. Maintain existing vegetation and vegetated buffers along drainage ways. Stabilize disturbed areas along roadways with mulch and seed upon completion of disturbance activities. Utilize wattles and check dams as needed to reduce runoff velocity.
Temporary stockpiling of fill materials.	Install and maintain silt fencing around stockpiles and maintain vegetated buffers around stockpiles. Locate stockpiles away from drainage ways and concentrated runoff flows. Seed stockpiles of soil that will remain for longer than 14 days.
Fueling operations and material storage	Install secondary containment for any stationary temporary fuel storage tanks. Avoid overtopping of tanks during refueling. Do not leave pumps unattended during refueling. Maintain designated area for equipment parking, refueling, and material storage and inspect daily for leaks or spills.
Equipment maintenance	Maintenance of construction equipment will be performed off-site except in an emergency, and when unavoidable will be conducted in a manner to capture and contain any liquids such as oil or hydraulic fluids and to prevent contact during storm events. Equipment will be inspected daily for leaks, drips, or spills.

6.2 NON-STRUCTURAL PRACTICES

Nonstructural controls are also referred to as source controls. These source controls are operational practices intended to improve stormwater quality by minimizing or eliminating the accumulation and potential contact of pollutants with stormwater runoff at or near their source. As emphasized by the EPA, source controls have been given the highest priority for implementation in this SWPPP as the most cost-effective, practical, and environmentally sound approach to pollution prevention. In accordance with the General Permit, the SWPPP includes the following stormwater source management controls:

- Limiting construction traffic to designated access roads and areas of construction will minimize land disturbance and offsite tracking of sediments. Traffic will be prohibited from entering channels or areas of wet soils unless absolutely necessary.

- The total area of disturbance will be limited to the minimum amount necessary to install the proposed improvements.

- Inspections will be conducted a minimum of once a week to look for signs of erosion and other objectionable discharges as well as vegetative or structural practices in need of repair or maintenance. The results of the inspections as well as actions taken will be recorded. Inspection procedures are discussed in more detail in Section 9.

- No fuels, fertilizers, pesticides, or other potentially toxic materials will be stored at the site over extended periods. Fuels, fertilizers, and pesticides may be used at the site, but only the amount required for the specific application will be kept at the site and only during the period the materials are being actively used. When used on-site, these types of chemicals will be stored either inside a vehicle, roofed structure, or otherwise covered and away from the potential for contact with rainfall and runoff.

- Areas of disturbed soils or areas where active erosion is otherwise likely to occur will be stabilized by establishing vegetative measures.

6.3 STRUCTURAL PRACTICES

Structural controls are physical BMPs designed to contain and treat stormwater runoff as well as control the volume and discharge rate. Structural practices will divert flows from exposed soils and minimize suspended solids in stormwater runoff. In accordance with the General Permit, the SWPPP includes the following structural practices:

- Stormwater diversion berms (including but not limited to side cuts and terraces) will be built along the project perimeter as needed to reduce the amount of runoff entering disturbed areas. These structures will divert surface flow away from the bare soils of the site and onto stabilized areas with established vegetation. Berms and channels will be constructed in order to direct flow around disturbed areas. These diversion measures will be installed prior to further soil disturbance down gradient and will be stabilized using seeding and mulching.

- Silt fences will be installed along the perimeter in down-gradient locations prior to construction. Silt fences will be used along the perimeter of disturbed areas, including soil stockpiles, as appropriate to prevent sedimentation of down gradient areas. Silt fencing will not be used across channels or other similar areas of concentrated flow.

- Inlet protection will be installed above culverts in order to reduce discharge of sediments into and through inlets and culverts.

- Outlet protection will be installed below culverts as indicated by site plans in order to prevent scour and to dissipate runoff velocities.

- Erosion checks will be used as needed to reduce runoff velocities and prevent erosion. Straw wattle checks will be used along slopes and areas with sheet flow as well as in swales with low volume/velocity runoff. Rock checks will be used in swales and other areas with concentrated flows and high volume/velocity runoff.

6.4 VEGETATIVE PRACTICES

Vegetative practices will be implemented to preserve existing vegetation where possible. Disturbed areas will be re-vegetated as soon as practical after grading or construction. In accordance with the conditions of the General Permit: Soil stabilization-vegetative stabilization measures must be initiated immediately whenever any clearing, grading, excavating or other land disturbing activities have temporarily or permanently ceased on any portion of the site and will not resume for a period of fourteen (14) days or more. The SWPPP includes the following specific vegetative practices:

- Buffer zones of existing vegetation will be maintained at the site adjacent to the project area and around areas of disturbance in order to provide stabilization of soils and reduce runoff velocities of drainage onto, and away from, the project area.

- Topsoil removed from disturbed areas (where suitable topsoil is present) will be stockpiled to redistribute during final grading in order to aid in the establishment of permanent vegetation. Soils to be stockpiled for an extended period will be seeded with temporary vegetation. As soon as practical after grading or construction, the topsoil will be replaced in the appropriate areas of the site.

- All areas of disturbed soils not to be paved will be seeded or sodded with a permanent cover of perennial grasses as soon as final grades are reached for any portion of work, depending on the time of year. When the season of the year is not suited to planting or seeding permanent vegetative cover, a temporary cover (annual grasses) may be established to protect disturbed areas from substantial erosion. In the case temporary seeding is used, permanent vegetation will be established once seasonal conditions are more favorable. The surface of disturbed areas to be seeded will be prepared and fertilized and mulched were needed to aid in the establishment of grasses.

7.0 IMPLEMENTATION

Stormwater controls will be implemented, as needed, to prevent erosion and adverse impacts to receiving waters. Construction will be sequenced so that grading operations can begin and end as quickly as possible. Sediment trapping and diversion measures will be installed as a first step in the construction sequence. The proposed sequence of activities is as follows:

1. Establish construction access and vegetated buffers;
2. Install silt fencing along the project area perimeter downgradient of disturbed areas;
3. Divert runoff away from areas to be graded;
4. Stabilize channel crossing, diversion ditches and berms;
5. Remove topsoil from area to be graded, where present, and stockpile;
6. Protect inlets and outlets as culverts are installed;
7. Stabilize disturbed soils along roadway using seeding, topsoil and mulching;
8. Remove temporary measures such as silt fencing once construction is complete and disturbed areas are adequately stabilized.

8.0 HOUSEKEEPING AND TRAINING

8.1 GOOD HOUSEKEEPING

The project site will be kept in a clean and orderly condition during site activities. Fuels and other potentially hazardous chemicals will not be stored on site or will be kept at a designated location and away from runoff. Equipment fueling and routine maintenance will be performed at a designated location away from runoff. Major equipment repairs will be conducted off-site. Any leaks or spills will be immediately collected and properly disposed of. Fertilizers and other chemicals to be used at the site will be stored in labeled containers and away from potential exposure to rainfall and runoff. Employees responsible for handling potentially hazardous materials will receive training as appropriate to ensure adequate knowledge of proper use, handling, storage, and disposal methods. Inspections will be conducted at least weekly and prior to, as well as immediately following, significant rainfall events. Inspections will be documented using the designated inspection forms and any repairs or modifications required will be initiated within 24 hours of discovery or as soon as conditions allow. Special attention will be given to inspection and maintenance of controls to reduce discharge of sediment to receiving waters to the maximum extent practicable. All employees will receive training as appropriate to ensure familiarity with the applicable conditions of this SWPPP.

8.2 EMPLOYEE TRAINING

Employees will be instructed to perform regular cleanup in their work areas to prevent storm water from becoming contaminated with waste materials. Employees will be instructed to promptly clean up spilled materials to prevent contact with storm water. Locations of housekeeping and spill response equipment and supplies will be provided to all employees. Where appropriate, employees will be provided instructions on the proper methods to secure drums, tanks and other containers. Those working near such containers will also be instructed to routinely check the integrity of the containers to make sure there are no leaks. Employees responsible for handling potentially hazardous materials will receive training as appropriate to ensure adequate knowledge of proper use, handling, storage and disposal methods. All employees will receive training as appropriate to ensure familiarity with the applicable conditions of this SWPPP.

9.0 INSPECTION PROCEDURES

The Owner will be responsible for inspection procedures during construction. Inspection of all receiving streams (if feasible), outfalls, erosion and sediment controls and other SWPPP requirements shall be performed during permit coverage using a copy of the form provided in the Large Construction Forms Package (Attachment C), and inspections shall be performed by qualified personnel on the following schedule:

- At least weekly for a minimum of four inspections per month;
- After rain events that produce a discharge; and
- As often as necessary to ensure that appropriate erosion and sediment controls have been properly constructed and maintained.

Inspections will include the following elements, at a minimum:

- Construction access will be checked for accumulation of mud and mud on roadways;
- Diversions and ditches will be checked for erosion or washout;
- Silt fences will be inspected for depth of collected sediment, tears, secure fabric placement in trench and signs of undercutting, secure fabric attachment to posts, and firm post placement;
- Straw bale barriers and wattles will be checked regularly for undermining or deterioration;
- All seeded areas will be checked regularly to assure that a good stand is maintained;
- Areas of steep slopes will be checked for signs of rill and gully erosion;
- Inlet and outlet protection will be checked for proper installation, damage, and accumulated sediments;
- Stormwater runoff and any ponded water up-gradient of silt fencing or diversion berms will be visually observed to ensure that sheens, turbidity, or other objectionable material is not present; and
- All stormwater runoff discharge points will be inspected for non-numeric limitations in accordance with the General Permit (see Section 10).

10.0 MAINTENANCE PROCEDURES

The Owner will be responsible for maintenance procedures during construction. If damage to stormwater controls is identified during the inspection procedures outlined in the preceding sections, maintenance practices will be implemented to maintain the stormwater pollution prevention elements. Such maintenance practices are as follows:

- Mud will be removed daily from public roadway if present;
- Equipment parking and material storage areas will be kept free from accumulated debris, litter, and leaked or spilled fuels, lubricants, or other chemicals;
- Diversions, swales and slopes will be regraded as needed to maintain stable drains and establish adequate vegetative cover;
- Inlet and outlet protection will be cleaned or replaced as necessary to reduce discharge of sediment;
- Silt fencing and erosion checks will be replaced as needed, and sediment collected up-gradient will be removed when it has reached one-half the height of the fence; and
- Eroded areas will be regraded, fertilized and re-seeded as needed, and watered if necessary, to establish adequate cover.

11.0 NON-NUMERIC LIMITATIONS

In accordance with the General Permit, stormwater discharges from the site shall be free from the following:

1. Debris, oil, scum, and other floating materials at levels exceeding trace amounts;

2. Eroded soils and other materials that will settle to form objectionable deposits in receiving waters;

3. Suspended solids, turbidity, and color at levels inconsistent with the receiving waters; and

4. Chemicals in concentrations that would cause violation of State Water Quality Criteria in the receiving waters.

The following discharges are specifically not allowed according to the conditions of the General Permit:

A. Wastewater from washout of concrete;

B. Wastewater from washout of and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

C. Fuels, oils, and other pollutants used in vehicle and equipment operation and maintenance;

D. Soaps or detergents used in vehicle and equipment washing;

E. Wastewater from sanitary facilities, including portable toilets;

F. Contaminated discharge from dewatering activities; and

G. Toxic or hazardous substances from a spill or other release.

12.0 REPORTING AND RECORDKEEPING

12.1 GENERAL

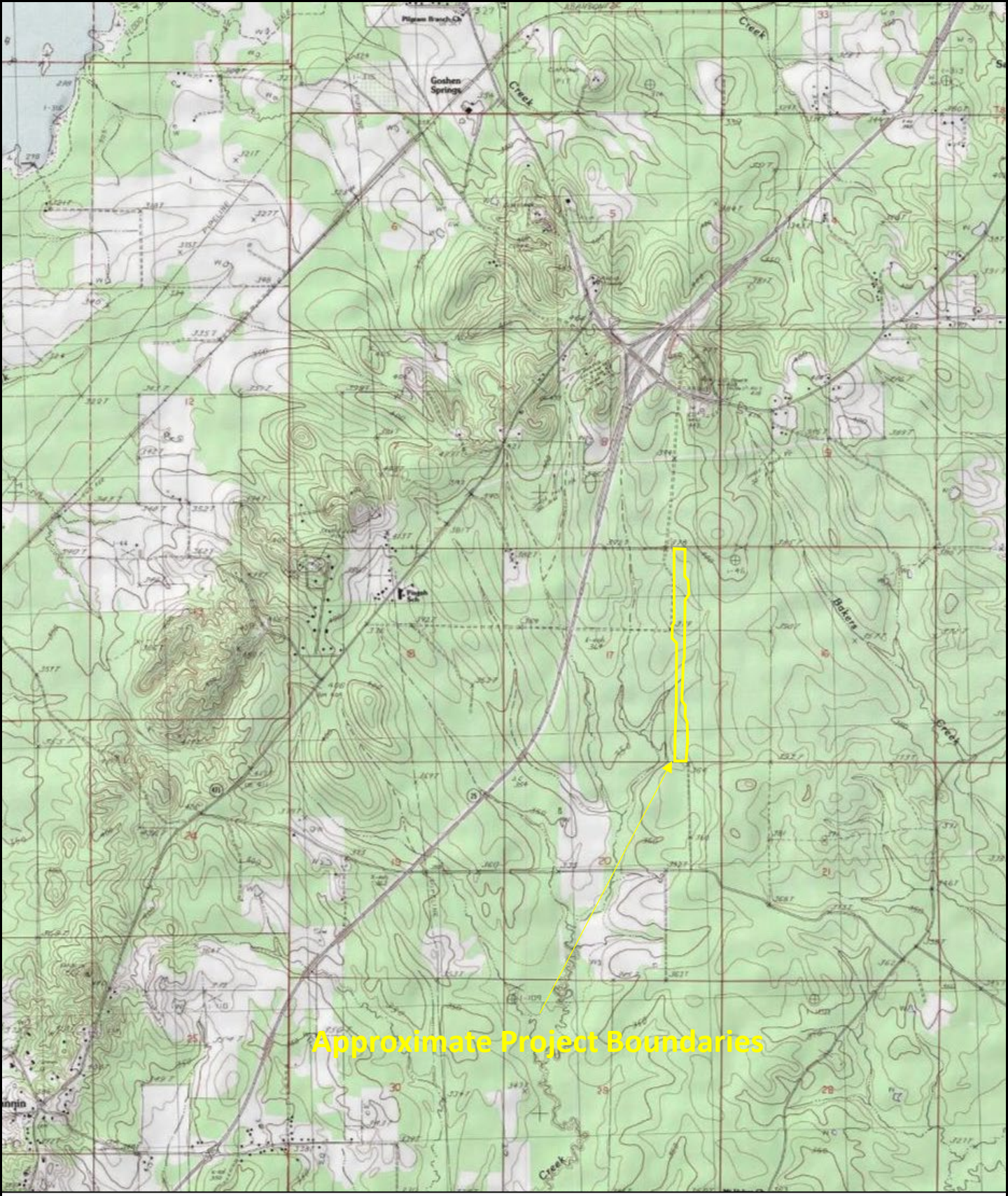
The Owner will be responsible for reporting and recordkeeping during construction at the site. All inspections will be reported on copies of the Weekly Inspection Report and Certification Form for Erosion and Sediment Controls. A copy of this form is included in Attachment C.

All records, reports, and information resulting from activities required by this permit will be retained at the site during the duration of construction, and at the offices of the Owner for a period of at least three years from the date of the LCNOI, inspection, or report.

12.2 NON-COMPLIANCE REPORTING

The Owner will notify MDEQ orally within **24 hours** from the time they become aware of circumstances that result in non-compliance, and will provide a written report to MDEQ within **10 working days** of the time they become aware of the circumstances. The report will describe the cause, the exact dates and times, steps taken or planned to reduce, eliminate, or prevent reoccurrence and, if the non-compliance has not ceased, the anticipated time for correction.

FIGURES



Site Location Map

King Air Nation Runway Construction

Section 17, Township 7 North, Range 4 East

Rankin County, Mississippi

Site Drainage Map

King Air Nation Runway Construction

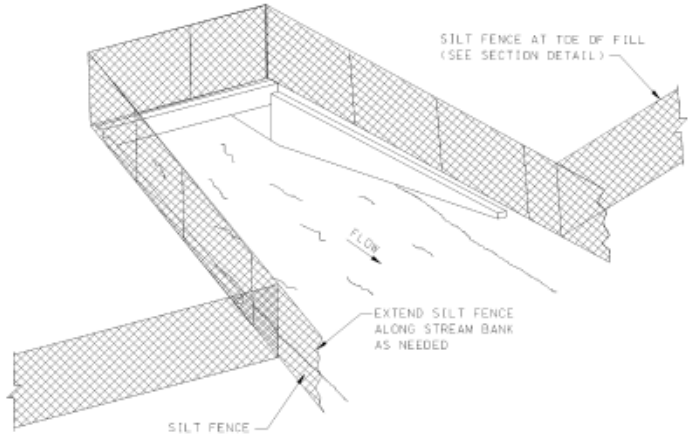
Section 17, Township 7 North, Range 4 East

Rankin County, Mississippi

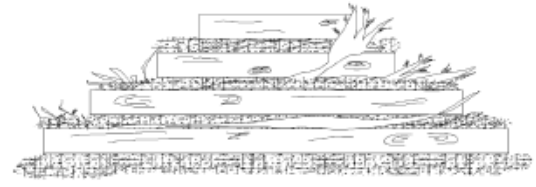
N

LEGEND

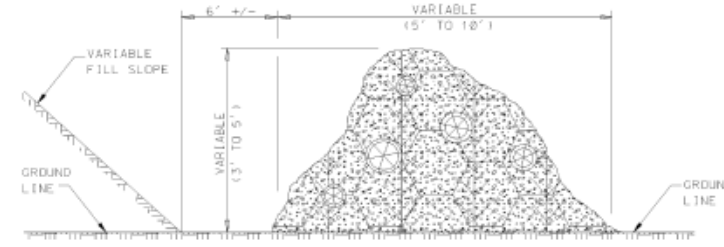
- Surface Flow Direction
- Channel Crossings
- (#) Outfalls



SEDIMENT BARRIER AT CROSS DRAIN



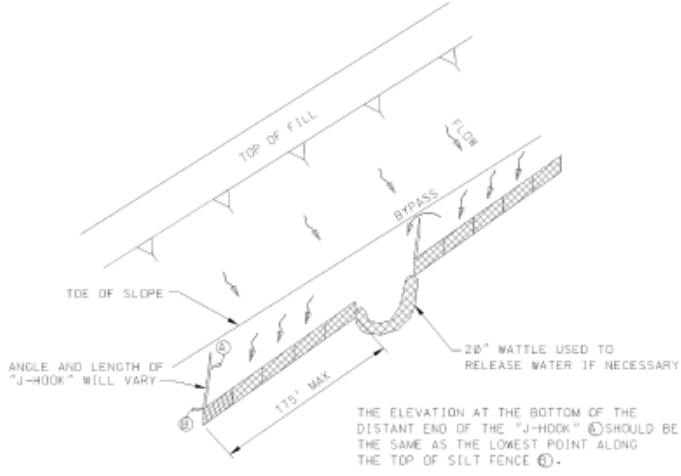
FRONT ELEVATION



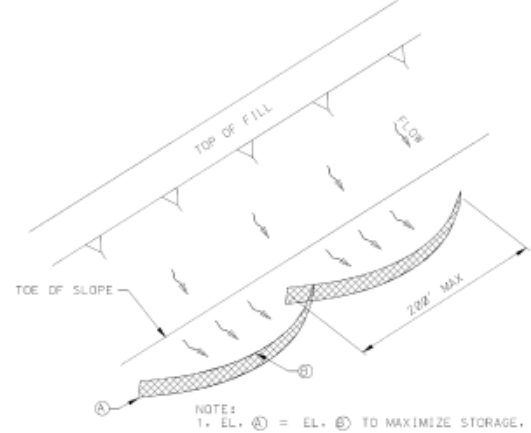
SIDE ELEVATION

TEMPORARY BRUSH BARRIER

NOTES:
1. BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
2. PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
3. TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
4. THE BRUSH BARRIER MAY BE CHOKED WITH FILTER FABRIC.
5. TEMPORARY BRUSH BARRIER WILL NOT BE MEASURED FOR SEPERATE PAYMENT



"J-HOOK" SILT FENCE APPLICATION

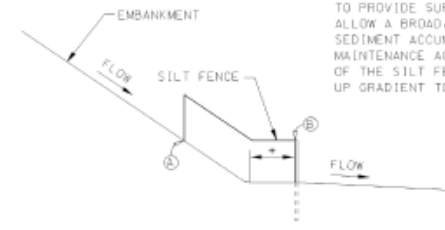


NOTE:
1. EL. Ⓐ = EL. Ⓑ TO MAXIMIZE STORAGE.

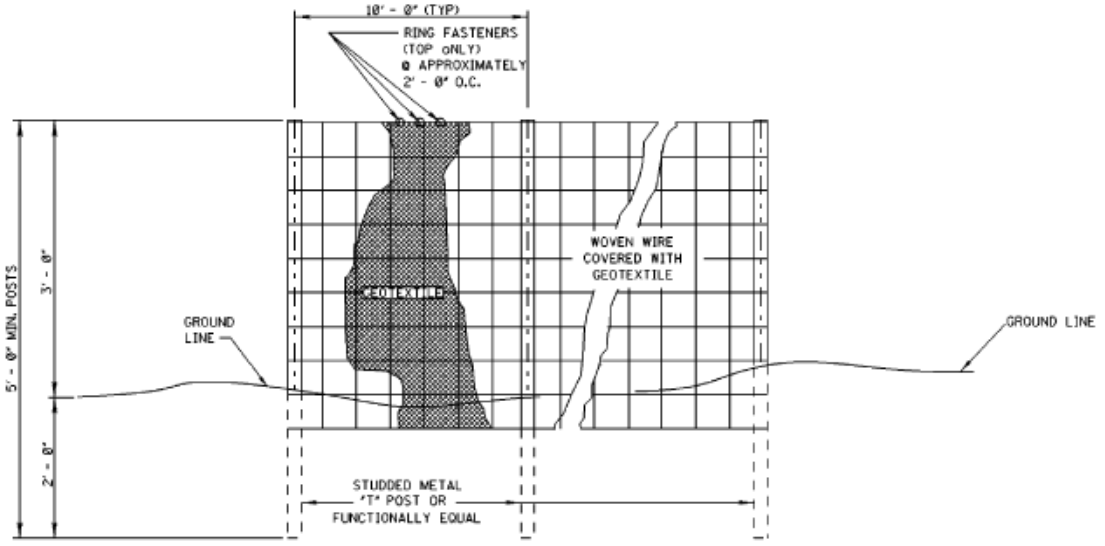
"SMILE-CONFIGURATION" SILT FENCE APPLICATION

NOTE:
1. ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON ECD-3

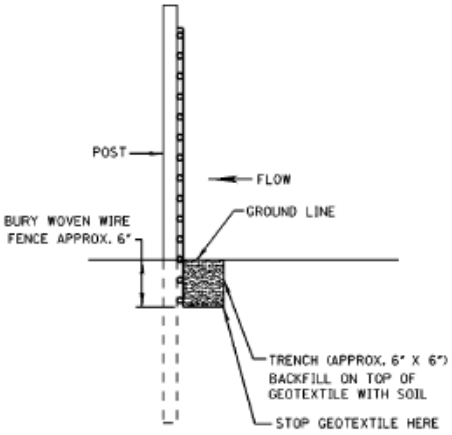
* SILT FENCE SHOULD BE LOCATED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE SUFFICIENT SPACE TO ALLOW A BROAD, FLAT AREA FOR SEDIMENT ACCUMULATION AND MAINTENANCE ACTIVITIES. THE ENDS OF THE SILT FENCE SHOULD BE TURNED UP GRADIENT TO MAXIMIZE STORAGE.



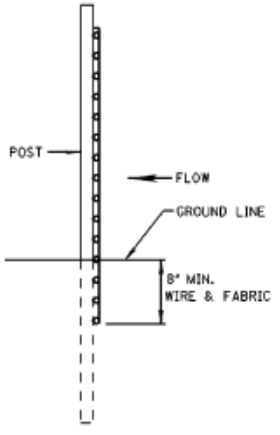
SILT FENCE SECTION AT TOE OF FILL



ELEVATION VIEW



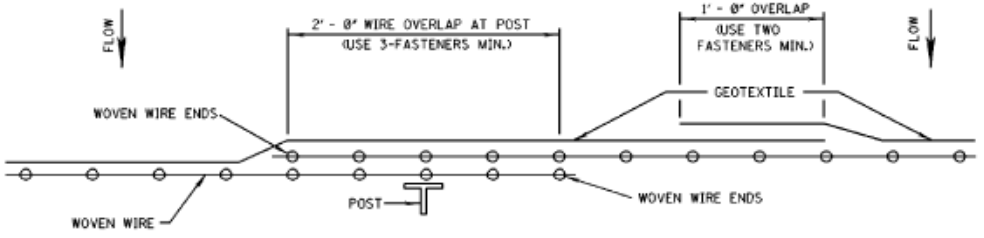
METHOD I



METHOD II
MECHANICAL INSTALLATION

SIDE VIEW

NOTES:
1. SILT FENCES SHALL BE USED IN AREAS WHERE FLOW IS NOT SEVERE.
2. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST FENCE BECOMES FULL.
4. WHEREVER POSSIBLE SILT FENCE SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
5. THE CONTRACTOR MAY ELECT TO USE EITHER METHOD I OR METHOD II. COST TO BE LINEAR FEET OF SILT FENCE.
6. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTUREED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
7. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
8. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATION MAY BE USED WITHOUT WIRE FENCE.

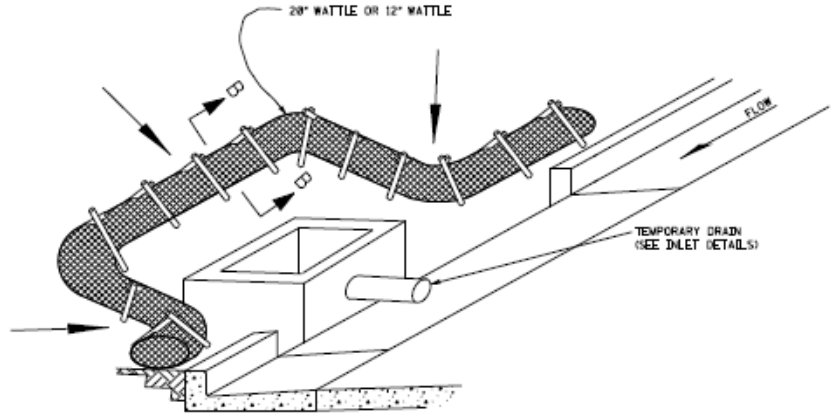


PLAN VIEW

REQUIRED LAPPING

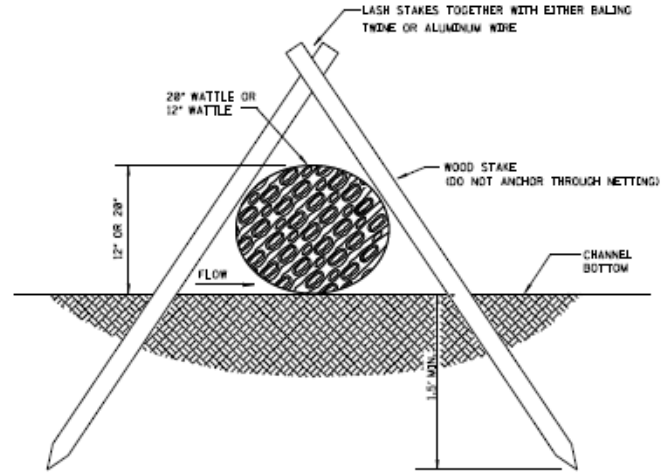
STATE	PROJECT NO.
MISS.	

NOTE: SILT FENCE OR SANDBAGS MAY ALSO BE USED FOR THIS APPLICATION.
HAY BALES NOT ACCEPTABLE DURING THIS STAGE.

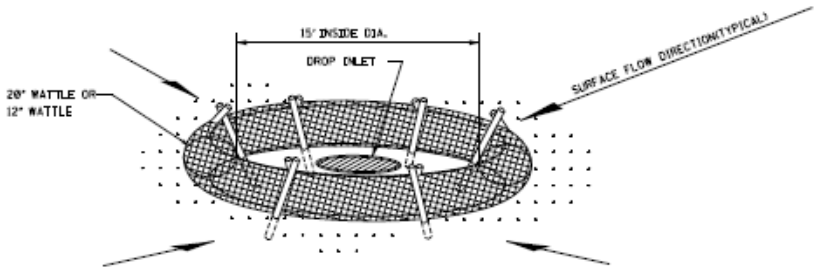


CURB INLET PROTECTION (STAGE 2)

SINGLE OR DOUBLE WING INLET



SECTION B–B



DROP INLET PROTECTION

NOTES:

1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURER'S RECOMMENDATIONS (1' MIN., 3' MAX.)
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
4. IN THE EVENT WATTLES CANNOT BE SECURED IN PLACE USING WOOD STAKES, SANDBAGS MAY BE USED IN LIEU OF WOOD STAKES IN ORDER TO SECURE WATTLES IN PLACE. COST OF SANDBAGS USED IN THIS APPLICATION SHALL BE INCLUDED IN OTHER ITEMS BID.

BY | SECTION | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

INLET PROTECTION DETAILS OF WATTLES

WORKING NUMBER: ECD-13

ISSUE DATE: AUGUST 01, 2017

SHEET NUMBER: 6113

Rankin County Vegetation Schedule						
Erosion Control Item		Seasonal Applications - Dates & Rates				Requirements
		Spring & Summer		Fall & Winter		
Required on Project	Description	Rates	Dates	Rates	Dates	
	Topsoil for Slope Treatment	4" Thick	March 1 to September 1	4" Thick	September 1 to March 1	Topsoil is required in areas directed by the Engineer
x	Ground Preparation	Per Sq. Yd.	March 1 to September 1	Per Sq. Yd.	September 1 to March 1	Ground preparation is required on area to receive solid sodding or seeding
	Agricultural Limestone	2 Tons / Acre	March 1 to September 1	2 Tons / Acre	September 1 to March 1	Limestone shall be mechanical spread uniformly and incorporated into the soil prior to planting
x	Combination Fertilizer (13-13-13)	1000lbs / Acre	March 1 to September 1	1000lbs / Acre	September 1 to March 1	Fertilizer shall be mechanical spread uniformly and incorporated into the soil prior to planting
	Superphosphate	1000lbs / Acre	March 1 to September 1	1000lbs / Acre	September 1 to March 1	
	Seeding (Common Bermuda grass)	20lb / Acre	March 1 to September 1	20lb / Acre	September 1 to March 1	Seed required on disturbed areas. Unhulled seed may be required during the dormant season as directed
x	Seeding (Bahia grass)	25lb / Acre	March 1 to September 1	25lb / Acre	September 1 to March 1	Seed required on disturbed areas.
	Seeding (Texoka Buffalo Grass)	30lb / Acre	March 1 to September 1	30lb / Acre	September 1 to March 1	Seed required on slops steeper that 3:1
x	Seeding (Tall Fescue)			20lb / Acre	August 1 to April 1	Seed required on disturbed areas.
	Seeding (Crimson Clover)			25lb / Acre	August 1 to April 1	Seed required on disturbed areas.
	Vegetative Material for Mulch	2 Tons / Acre	March 1 to September 1	2 Tons / Acre	September 1 to March 1	
	Solid Sodding	Per Square Yard	March 1 to September 1	Per Square Yard	September 1 to March 1	Solid Sod required on areas specified in the contract or by the engineer
	Watering	20 Gals / SY	March 1 to September 1	20 Gals / SY	September 1 to March 1	Required on all areas receiving solid sod.
Temporary Erosion Control Measures						
	Light Ground Preparation	Per Sq. Yd.		Per Sq. Yd.		Required on all areas receiving temporary grassing.
	Seeding (Brown Top Millet)	20lb / Acre	March 1 to September 1			Use as directed by the engineer.
	Seeding (Rye Grass)			25lb / Acre	September 1 to March 1	Use as directed by the engineer.
	Seeding (Oats)			90lb / Acre	September 1 to March 1	Use as directed by the engineer.
	Vegetative Material for Mulch	2 Tons / Acre		2 Tons / Acre		Use as directed by the engineer.
	Combination Fertilizer (13-13-13)	500lbs / Acre		500lbs / Acre		Use as directed by the engineer.

ATTACHMENT A

Large Construction Notice of Intent

AI: 87826

MSR109438

Rec'd via email:
11/26/2024

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

LARGE CONSTRUCTION NOTICE OF INTENT (LCNOI) FOR COVERAGE UNDER THE LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT

INSTRUCTIONS

The Large Construction Notice of Intent (LCNOI) is for coverage under the Large Construction General Permit for land disturbing activities of five (5) acres or greater; or for land disturbing activities, which are part of a larger common plan of development or sale that are initially less than five (5) acres but will ultimately disturb five (5) or more acres. Applicant must be the owner or operator. For construction activities, the operator is typically the prime contractor. The owner(s) of the property and the prime contractor associated with regulated construction activity on the property have joint and severable responsibility for compliance with the Large Construction Storm Water General Permit MSR10.

If the company seeking coverage is a corporation, a limited liability company, a partnership, or a business trust, attach proof of its registration with the Mississippi Secretary of State and/or its Certificate of Good Standing. This registration or Certificate of Good Standing must be dated within twelve (12) months of the date of the submittal of this coverage form. Coverage will be issued in the company name as it is registered with the Mississippi Secretary of State.

Completed LCNOIs should be filed at least thirty (30) days prior to the commencement of construction. Discharge of storm water from large construction activities without written notification of coverage is a violation of state law.

Submittals with this LCNOI must include:
- **A site-specific Storm Water Pollution Prevention Plan (SWPPP) developed in accordance with ACT5 of the General Permit**
- **A detailed site-specific scaled drawing showing the property layout and the features outlined in ACT5 of the General Permit**
- **A United States Geological Survey (USGS) quadrangle map or photocopy, extending at least one-half mile beyond the facility property boundaries with the site location and outfalls outlined or highlighted. The name of the quadrangle map must be shown on all copies. Quadrangle maps can be obtained from the MDEQ, Office of Geology at 601-961-5523.**

Additional submittals may include the following, if applicable:
- **Appropriate Section 404 documentation from U.S. Army Corps of Engineers**
- **Appropriate documentation concerning future disposal of sanitary sewage and sewage collection system construction**
- **Appropriate documentation from the MDEQ Office of Land & Water concerning dam construction and low flow requirements**
- **Approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties**
- **Antidegradation report for disturbance within Waters of the State**

ALL QUESTIONS MUST BE ANSWERED (Answer "NA" if the question is not applicable)

O.C

MSR10 9438

(NUMBER TO BE ASSIGNED BY STATE)

APPLICANT IS THE: ☑ **OWNER** ☐ **PRIME CONTRACTOR**

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: Carl Davis

OWNER COMPANY LEGAL NAME: King Air Nation

OWNER STREET OR P.O. BOX: 200 Jetport Road

OWNER CITY: Brandon **STATE:** Mississippi **ZIP:** 39047

OWNER PHONE #: (601) 936-0777 **OWNER EMAIL:** carl@kingairnation.com

PREPARER CONTACT INFORMATION

IF NOI WAS PREPARED BY SOMEONE OTHER THAN THE APPLICANT

CONTACT PERSON: James A. Hall

COMPANY LEGAL NAME: Engineering Service

STREET OR P.O. BOX: 115 Aerosmith Drive, Post Office Box 180429

CITY: Richland **STATE:** Mississippi **ZIP:** 39218

PHONE # ( ) 601-939-8737 **EMAIL:** jhall@engservice.com

PRIME CONTRACTOR CONTACT INFORMATION

PRIME CONTRACTOR CONTACT PERSON: NA

PRIME CONTRACTOR COMPANY LEGAL NAME:

PRIME CONTRACTOR STREET OR P.O. BOX:

PRIME CONTRACTOR CITY: **STATE:** **ZIP:**

PRIME CONTRACTOR PHONE #: (___)_____ **PRIME CONTRACTOR EMAIL:**

FACILITY SITE INFORMATION

FACILITY SITE NAME: King Air Nation Airfield Runway

FACILITY SITE ADDRESS (If the physical address is not available, please indicate the nearest named road. For linear projects indicate the beginning of the project and identify all counties the project traverses.)

STREET: 200 Jetport Road

CITY: Brandon STATE: Mississippi COUNTY: Rankin ZIP: 39047

FACILITY SITE TRIBAL LAND ID (N/A If not applicable): N/A

LATITUDE: 32 **degrees** 26 **minutes** 57.8 **seconds** **LONGITUDE:** 89 **degrees** 54 **minutes** 21.2 **seconds**

LAT & LONG DATA SOURCE (GPS *(Please GPS Project Entrance/Start Point)* or Map Interpolation): Project Entrance

TOTAL ACREAGE THAT WILL BE DISTURBED [1]: approximately 20 acres

IS THIS PART OF A LARGER COMMON PLAN OF DEVELOPMENT? YES ☐ NO ☑

IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT: _____
AND PERMIT COVERAGE NUMBER: MSR10_ _ _ _

ESTIMATED CONSTRUCTION PROJECT START DATE: 2023-06-01 (YYYY-MM-DD)

ESTIMATED CONSTRUCTION PROJECT END DATE: 2024-08-30 (YYYY-MM-DD)

DESCRIPTION OF CONSTRUCTION ACTIVITY: Grading and fill for construction of an airfiled runway.

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:
Private runway.

SIC Code: 3721 ___ ___ ___ **NAICS Code** 336411 ___ ___ ___

NEAREST NAMED RECEIVING STREAM: Clark Creek

IS RECEIVING STREAM ON MISSISSIPPI'S 303(d) LIST OF IMPAIRED WATER BODIES? (The 303(d) list of impaired waters and TMDL stream segments may be found on MDEQ's web site: http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section**)** YES ☐ NO ☑

HAS A TMDL BEEN ESTABLISHED FOR THE RECEIVING STREAM SEGMENT? YES ☐ NO ☑

FOR WHICH POLLUTANT:

ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES WITHIN ½ MILE DOWNSTREAM OF PROJECT BOUNDRY THAT MAY BE IMPACTED BY THE CONSTRUCTION ACTIVITY? YES ☐ NO ☑

EXISTING DATA DESCRIBING THE SOIL (for linear projects please describe in SWPPP):
100% Kipling-Faulkner association, undulating

WILL FLOCCULANTS BE USED TO TREAT TURBIDITY IN STORM WATER? YES ☐ NO ☑

IF YES, INDICATE THE TYPE OF FLOCCULANT. ☐ **ANIONIC POLYACRYLIMIDE (PAM)**
☐ **OTHER** _____

IF YES, DOES THE SWPPP DESCRIBE THE METHOD OF INTRODUCTION, THE LOCATION OF INTRODUCTION AND THE LOCATION OF WHERE FLOCCULATED MATERIAL WILL SETTLE?

IS A SDS SHEET INCLUDED FOR THE FLOCCULATE? YES ☐ NO ☐

WILL THERE BE A 50 FT BUFFER BETWEEN THE PROJECT DISTURBANCE AND THE WATERS OF THE STATE? YES ☑ NO ☐

IF NOT, PROVIDE EQUIVALENT CONTROL MEASURES IN THE SWPPP.

[1]Acreage for subdivision development includes areas disturbed by construction of roads, utilities and drainage. Additionally, a housesite of at least 10,000 ft^2 per lot (entire lot, if smaller) shall be included in calculating acreage disturbed.

DOCUMENTATION OF COMPLIANCE WITH OTHER REGULATIONS/REQUIREMENTS

COVERAGE UNDER THIS PERMIT WILL NOT BE GRANTED UNTIL ALL OTHER REQUIRED MDEQ PERMITS AND APPROVALS ARE SATISFACTORILY ADDRESSED

IS LCNOI FOR A FACILITY THAT WILL REQUIRE OTHER PERMITS? YES ☑ NO ☐

IF YES, CHECK ALL THAT APPLY: ☐ AIR ☐ HAZARDOUS WASTE ☐ PRETREATMENT

☐ WATER STATE OPERATING ☐ INDIVIDUAL NPDES ☐ OTHER: 404 NWP 14

IS THE PROJECT REROUTING, FILLING OR CROSSING A WATER CONVEYANCE OF ANY KIND? (If yes, contact the U.S. Army Corps of Engineers' Regulatory Branch for permitting requirements.) YES ☑ NO ☐

IF THE PROJECT REQUIRES A CORPS OF ENGINEER SECTION 404 PERMIT, PROVIDE APPROPRIATE DOCUMENTATION THAT:

-The project has been approved by individual permit, or
-The work will be covered by a nationwide permit and NO NOTIFICATION to the Corps is required, or
-The work will be covered by a nationwide or general permit and NOTIFICATION to the Corps is required

IS THE PROJECT REROUTING, FILLING OR CROSSING A STATE WATER CONVEYANCE OF ANY KIND? (If yes, please provide an antidegradation report.) YES ☐ NO ☑

IS A LAKE REQUIRING THE CONSTRUCTION OF A DAM BEING PROPOSED? (If yes, provide appropriate approval documentation from MDEQ Office of Land and Water, Dam Safety.) YES ☐ NO ☑

IF THE PROJECT IS A SUBDIVISION OR A COMMERCIAL DEVELOPMENT, HOW WILL SANITARY SEWAGE BE DISPOSED? Check one of the following and attach the pertinent documents.

☐ **Existing Municipal or Commercial System. Please attach plans and specifications for the collection system and the associated "Information Regarding Proposed Wastewater Projects" form or approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties. If the plans and specifications can not be provided at the time of LCNOI submittal, MDEQ will accept written acknowledgement from official(s) responsible for wastewater collection and treatment that the flows generated from the proposed project can and will be transported and treated properly. The letter must include the estimated flow.**

☐ **Collection and Treatment System will be Constructed. Please attach a copy of the cover of the NPDES discharge permit from MDEQ or indicate the date the application was submitted to MDEQ (Date: _____.)**

☐ **Individual Onsite Wastewater Disposal Systems for Subdivisions Less than 35 Lots. Please attach a copy of the Letter of General Acceptance from the Mississippi State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.**

☐ **Individual Onsite Wastewater Disposal Systems for Subdivisions Greater than 35 Lots. A determination of the feasibility of installing a central sewage collection and treatment system must be made by MDEQ. A copy of the response from MDEQ concerning the feasibility study must be attached. If a central collection and wastewater system is not feasible, then please attach a copy of the Letter of General Acceptance from the State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.**

INDICATE ANY LOCAL STORM WATER ORDINANCE (I.E. MS4)WITH WHICH THE PROJECT MUST COMPLY:

_____

_____

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.

Signature of Applicant[1] (owner or prime contractor)	**Date Signed**
Carl Davis	Vice President, King Air Nation
Printed Name[1]	**Title**

[1]This application shall be signed as follows:

- **For a corporation, by a responsible corporate officer.**
- **For a partnership, by a general partner.**
- **For a sole proprietorship, by the proprietor.**

For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official

Please submit the LCNOI form to: **Chief, Environmental Permits Division**
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Electronically: **https://www.mdeq.ms.gov/construction-stormwater/**

Revised 3/23/22

ATTACHMENT B

General Permit Conditions

omitted from MDEQ copy

ATTACHMENT C

Weekly Inspection Forms

Keep a Copy Available at the Permitted Facility or Locally Available
Submit the Inspection Reports Only if Requested by the Mississippi Department of Environmental Quality (MDEQ)

LARGE CONSTRUCTION GENERAL PERMIT
SITE INSPECTION AND CERTIFICATION FORM
COVERAGE NUMBER (MSR10 __ __ __ __)

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Results of construction storm water inspections required by ACT6 of this permit shall be recorded on this report form and kept with the Storm Water Pollution Prevention Plan (SWPPP) in accordance with the inspection documentation provisions of ACT9 of the this permit. Inspections shall be performed at least weekly for a minimum of four inspections per month. The coverage number must be listed at the top of all Inspection and Certification Forms.

COVERAGE RECIPIENT INFORMATION

OWNER/PRIME CONTRATOR NAME: King Air Nation

PROJECT NAME: Runway Construction

PROJECT STREET ADDRESS: 200 Jetport Road

PROJECT CITY: Brandon **PROJECT COUNTY:** Rankin

OWNER/PRIME CONTRACTOR MAILING ADDRESS: 200 Jetport Road

MAILING CITY: Brandon **STATE:** Mississippi **ZIP:** 39047

CONTACT PERSON: Carl Davis **CONTACT PHONE NUMBER:** (601) 936-0777

EMAIL ADDRESS: carl@kingairnation.com

INSPECTION DOCUMENTATION

DATE (mo/day/yr)	TIME (hr:min AM/PM)	ANY DEFICIENCIES? (CHECK IF YES)	INSPECTOR(S)
		☐	
		☐	
		☐	
		☐	
		☐	
		☐	

Deficiencies Noted During any Inspection (give date(s); attach additional sheets if necessary): _____

_____

_____

Corrective Action Taken or Planned (give date(s); attach additional sheets if necessary): _____

_____

_____

Based upon this inspection, which I or personnel under my direct supervision conducted, I certify that all erosion and sediment controls have been implemented and maintained, except for those deficiencies noted above, in accordance with the Storm Water Pollution Prevention Plan (SWPPP) and sound engineering practices as required by the above referenced permit. I further certify that the LCNOI and SWPPP information is up to date.

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons 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 fines and imprisonment for knowing violations.

_____ _____
Authorized Signature Date

_____ Vice President, King Air Nation
Printed Name Title

ATTACHMENT D

Section 404 NWP 14 Documentation

CERTIFICATION OF COMPLIANCE
WITH DEPARTMENT OF THE ARMY PERMIT

Nationwide Permit Number:	NWP 14
Identification Number:	MVK-2024-30
Name of Permittee:	King Air Nation
Issued Date:	10/04/2024
Evaluator Name:	Mr. Anthony Lobred
Expiration Date:	03/14/2026

Upon completion of the activity authorized by this permit, sign this certification and return it to the following address:

USACE, Vicksburg District
ATTN: Regulatory Division
4155 Clay Street
Vicksburg, Mississippi 39183-3435

Please note that your permitted activity is subject to a compliance inspection by an Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit modification, suspension, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit including any required mitigation.

Date Work was Completed: _____

_____ _____
Signature of Permittee Date Signed

CERTIFICATION OF COMPLIANCE
WITH DEPARTMENT OF THE ARMY PERMIT

Nationwide Permit Number:	NWP 14
Identification Number:	MVK-2024-629
Name of Permittee:	King Air Nation
Issued Date:	10/04/2024
Evaluator Name:	Mr. Anthony Lobred
Expiration Date:	03/14/2026

Upon completion of the activity authorized by this permit, sign this certification and return it to the following address:

USACE, Vicksburg District
ATTN: Regulatory Division
4155 Clay Street
Vicksburg, Mississippi 39183-3435

Please note that your permitted activity is subject to a compliance inspection by an Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit modification, suspension, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit including any required mitigation.

Date Work was Completed: _____

_____ _____
Signature of Permittee Date Signed

CERTIFICATION OF COMPLIANCE
WITH DEPARTMENT OF THE ARMY PERMIT

Nationwide Permit Number:	NWP 14
Identification Number:	MVK-2024-631
Name of Permittee:	King Air Nation
Issued Date:	10/04/2024
Evaluator Name:	Mr. Anthony Lobred
Expiration Date:	03/14/2026

Upon completion of the activity authorized by this permit, sign this certification and return it to the following address:

USACE, Vicksburg District
ATTN: Regulatory Division
4155 Clay Street
Vicksburg, Mississippi 39183-3435

Please note that your permitted activity is subject to a compliance inspection by an Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit modification, suspension, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit including any required mitigation.

Date Work was Completed: _____

_____ _____
Signature of Permittee Date Signed

CERTIFICATION OF COMPLIANCE
WITH DEPARTMENT OF THE ARMY PERMIT

Nationwide Permit Number:	NWP 14
Identification Number:	MVK-2024-632
Name of Permittee:	King Air Nation
Issued Date:	10/04/2024
Evaluator Name:	Mr. Anthony Lobred
Expiration Date:	03/14/2026

Upon completion of the activity authorized by this permit, sign this certification and return it to the following address:

USACE, Vicksburg District
ATTN: Regulatory Division
4155 Clay Street
Vicksburg, Mississippi 39183-3435

Please note that your permitted activity is subject to a compliance inspection by an Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit modification, suspension, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit including any required mitigation.

Date Work was Completed: _____

_____ _____
Signature of Permittee Date Signed