STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT

FOR

Overbrook II at Reunion
NE ¼ NE ¼ Section 34, T8N – R1E
NW ¼ NW ¼ Section 35, T8N – R1E
Madison County, Mississippi

January 2023

Prepared for:

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I. INTRODUCTION

The purpose of the Storm Water Pollution Prevention Plan (SWPPP) is to provide a site-specific description of the best management practices to prevent contamination of the storm water with potential pollutants from construction activities. The SWPPP has been prepared for Warren County as required by the Mississippi Department of Environmental Quality (MDEQ) in compliance with the application regulations for coverage under the Large Construction Storm Water General NPDES Permit.

This SWPPP shall be incorporated into the routine construction activities at the proposed site. The erosion control plan sheets are prepared and provided by the design consultant. The potential sources of pollution have been identified at the site and are described in the plan. Several pollution control measures are specified in the plan to prevent contamination of storm water runoff from those sources. The plan also outlines implementation, inspection, and maintenance requirements. The erosion and sediment control practices should be monitored and the plan revised if the quality of storm water runoff is not satisfactory. This plan identifies the minimum requirements that must be provided by the Prime Contractor. In the event that site conditions warrant additional measures, they shall be provided by the Prime Contractor.

II. SITE ASSESSMENT

A. Location: The subject property is located in the NE ¼ of the NE ¼ of Section 34 and NW ¼ of the NW ¼ of Section 35, Township 8 North, Range 1 East, Madison County, MS.

B. Existing Soils: As evidence by the USDA Soil Survey reports for Madison County, Mississippi the existing soil is comprised of 82.2% Loring Silt Loam, 2 to 5 percent slopes, moderately eroded, central, 13.3% Loring Silt Loam, 8 to 12 percent slopes, severely eroded, and 4.5% Loring Silt Loam, 5 to 8 percent slopes, moderately eroded, central.

C. Description of Work: Mendrop Engineering Resources is developing plans for the construction of a residential property located in the subdivision Reunion off of Honour Drive. The construction activities will disturb approximately 12.16 +/- acres. The construction activities will consist of clearing, stripping, site grading, placement of embankment fill, general utilities installments (sewer, electrical, water, and etc.), paving, and building construction.

D. Potential Pollution Sources: The most significant potential pollutants are soil particles subject to removal by storm water. Other potential pollutants subject to removal by storm water are spilled fuel and lubricants. Material may also be inadvertently tracked off-site or blown off-site when distributed by hauling equipment. The storm water which leaves the site shall meet the non-numeric limitations of being free from oil, scum, debris and other floating materials; eroded soils and other materials that will settle out of the storm water to form objectionable deposits in receiving waters; suspended solids, turbidity and color levels inconsistent with the receiving waters; chemicals in concentrations what would cause violations of the State Water Quality Criteria in the receiving waters.

E. Non-Storm Water Solid Materials: The on-site generation of solid materials will be minimal, and its proper disposal will be closely monitored. All solid waste will be taken off-site for proper disposal.

F. Drainage Patterns: The site, lies just West of Reunion Lake and Bear Creek.

G. Receiving Waters: Reunion Lake and Little Bear Creek.

H. Impaired Water Bodies: The receiving stream at the point of discharge does appear on the current State of Mississippi 303(d) List of Impaired Waterbodies adopted in November 2020. However, there are TMDL's for Bear Creek which are total nitrogen and phosphorus, Low DO/Organic Enrichment, and sediment.

I. Erosion Control Plan: There is a silt fence around the property to help with sediment control. At drainage areas or near the pond there are going to be wire backed silt fences with vegetation buffers. Also, at drainage areas there will be riprap check dams as well as brush dikes. Construction entrance, stockpile area, and housekeeping area will be onsite. See Erosion Control Plan for placement of each of the BMP's.

J. Soil Stabilization – vegetative stabilization measures must be initiated whenever any clearing, grading, grubbing, 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) calendar days or more. The appropriate temporary or permanent vegetative practices shall be initiated immediately. For the purposes of this permit, "immediately" is interpreted to mean no later than the next work day.

If you are unable to meet the deadlines in the previous paragraph due to

circumstances beyond your control, and you are using vegetative cover for temporary or permanent stabilization, you may comply with the following stabilization deadlines instead.

a) Immediately initiate, and within 14 calendar days complete, the installation of temporary non-vegetative stabilization measures to prevent erosion;

b) Complete all soil conditioning, seeding, watering or irrigation installation, mulching, and other required activities related to the planting and initial establishment of vegetation as conditions or circumstances allow it on your site;

c) Document the circumstances that prevent you from meeting the deadlines required and the schedule you will follow for initiating and completing stabilization.

III. BEST MANAGEMENT PRACTICES (BMP's)

A. Design: Below is a list of Best Management Practices that can be used to prevent the contamination of storm water. All BMP's shall conform to the specifications of the Mississippi SWPPP Guidance Manual. A copy may be viewed at the website below:

http://deq.state.ms.us/MDEQ.nsf/pdf/epd_conguidman/$File/ConstructionGM.pdf?OpenElement.

Specific BMPs that must be included, unless infeasible are:

a) Buffer zones shall be maintained between land-disturbing activities and perennial water bodies. A minimum 150-foot buffer zone is recommended, however, if a 150-foot buffer zone cannot be met, the requirements outlined in ACT5, T-3(6) shall be followed.

b) Topsoil should be stockpiled and used in areas that will be re-vegetated. When final grade is reached it should be distributed to a minimum depth of 2 inches on 3:1 slopes and 4 inches on flatter slopes.

c) Heavy equipment use in areas to be re-vegetated should be avoided. If compaction cannot be avoided. The top 4 inches of the soil bed should be tilted before re-vegetation. Any necessary fertilizer or other soil amendments should be added during the tilling process.

The SWPPP must contain written justifications as to why any of these specific controls were not deemed feasible.

- Silt Fence – A sediment barrier installed inside the rights-of-way and along the edge of clearing limits in areas that slope off the rights-of-way, toe of fill slopes, and adjacent to streams and channels, works by ponding water thus slowing velocity and allowing sediment to settle out of the runoff. Silt fence will also be installed downstream of all silt basins and utilized as silt fence ditch checks intercept low volume flows in low to moderate gradient ditches. Silt fence ditch checks shall be installed at specified intervals per the standard details to intercept and filter sediment-laden runoff. The maximum contributing drainage area shall be no more than two acres or ¼ acre of drainage per 100 feet of fence. Maximum slope length behind a fence is 100 feet with maximum gradient two horizontal to one vertical. Silt fence shall not be installed in live streams. The fence shall be maintained and the sediment removed when accumulated deposits reach 1/3 to 1/2 the fence height.

- Stabilized Construction Entrance/Exit – A stabilized pad located and constructed at points of egress from un-stabilized areas of the project to public roads where offsite tracking of mud and soil may occur.

- Dust Control – Controlling dust while land-disturbing activities are taking place to prevent the movement of dust from exposed surfaces, thus preventing or reducing complaints about air quality, health hazards, and reducing vehicle and road maintenance. Water trucks will be employed to manage the transportation of wind-blown particles.

- Grassed Swales/Waterways – Grassed swales/waterways can be used as a permanent control for stabilization with vegetation to remove pollutants, prevent erosion, and attenuate flooding. These consist of constructed or natural grassed swales that direct runoff to underground drainage or detention areas as needed.

- Temporary Grassing – Planting of fast-growing annual grasses to hold the soil in areas whenever any clearing, grading, excavation, or other land disturbing activities have temporarily or permanently ceased and will not resume for a period of fourteen (14) days or more. The appropriate temporary or permanent vegetative practice shall be implemented immediately. Inspect grassed areas for germination and growth after 7 days from planting. If seed is not germinating or growth is sparse, perform soil test, fertilize and reseed accordingly.

Temporary grassing shall be performed in accordance with contract specifications. Seed type and application rates are subject to the zone of adaptability within the State.

- Mulching - Placement of hay, grass, wood chips, straw, or synthetic material on the soil. Mulch holds moisture, dampens temperature extremes and retards erosion on steep slopes during seed establishment. Soils that cannot be seeded due to the season should be mulched to provide temporary protection.

- Temporary Buffer Zone – A vegetated strip of land bordering a stream that provides a filter for runoff, and protects stream banks from erosion. Where blue line streams, as identified on a quadrangle map, are found, a temporary buffer zone will be utilized. The temporary buffer zone will be a minimum width of 25 feet measured from the top bank along both sides of streams. A double row of temporary silt fence will be install along and parallel to the field side of the buffer zone as additional erosion control measures during clearing and grubbing operations. The temporary silt fence should be orange in color to provide for easy identification and additional notification of the designated area.

- Tree Protection – Efforts will be made to maintain tree buffer areas around the site as stated in the Temporary Buffer Zone section of this report. Grading around these sites will be minimal to insure the trees at these locations will remain as the buffer zone was designed.

- Concrete Washout – Concrete truck washout shall be permitted only at designated locations, away from natural drains or streams. Designated washout locations shall consist of a pit excavated in the ground with an encircled earthen berm, and shall not be located closer than 50 feet minimum to open ditches or water bodies. When possible, washouts should be performed at the concrete plant. Although concrete truck chute washouts will most likely occur on site, truck backwashing is prohibited. Backwashing shall be done at the concrete plant. In lieu of a pit, the Contractor may elect to used a washout bin.

- Fueling and Vehicle Maintenance Locations – Fueling and vehicle maintenance areas shall use BMP's for industrial activities to insure that pollutants do not impact the storm water runoff. Impervious dikes and berms shall be used to contain potential spills. Drums and containers for holding and transporting contaminated materials should

be on site.

- On-Site Burning – Open burning will be limited to land-clearing debris from construction and will be performed in accordance with Mississippi air emission regulations. These regulations prohibit burning within 150 feet of a permanent residence, but permits mechanically-aided burning at a distance of 150-1500 feet from a permanent residence, and conventional burning at a distance of over 1500 feet from a permanent residence.

- Wattle Ditch Check – A sediment barrier installed as ditch checks at specified intervals per the standard details for velocity reduction and control of sediment transport in areas of low to medium flows. Wattles may also be used for slope length reduction. For this application, wattles should be installed along contours and parallel to the face of slopes to intercept runoff, reduce flow velocities and effectively shorten the slope length. Wattle size/diameter for the various applications shall be specified on the erosion control plan.

- Rock Ditch Check – A small temporary dam constructed across swales or drainage ditches to reduce flow velocity and erosion. Maximum drainage shall be 10 acres. They are to be no higher than 3 feet in height, a minimum 2 feet in width and the center of the check dam shall be at least 1.0 foot lower than the outer edges. They shall be spaced so that the center of the check dam is at the same elevation as the bottom of the check dam immediately upstream. The barrier shall be maintained and the sediment removed when accumulated deposits reach 1/2 of the barriers original height.

- Wattle Inlet Protection – A filter or impounding area constructed around storm drain inlets to prevent sediment from entering an existing storm drain system until disturbed area is permanently stabilized. Drainage area to an individual drain shall be one acre or less. The elevation of the top of the filter shall be a minimum of 1.0 feet above the top crest elevation of the inlet and a minimum of 6 inches below the elevation of the outside edge of the inside roadway shoulder. 1”x 1” (maximum opening) wire mesh support attached to vertical corner post shall be constructed around the inlet opening. Wattles shall be used to construct filters upstream and/or around the wire support. The filter shall be maintained and the sediment removed when accumulated deposits reach 1/2 of the original filter height.

- Filter Stone Inlet Protection - A filter or impounding area constructed of Sediment Control Stone (SCS) around storm drain inlets to prevent sediment from entering an existing storm drain system until disturbed area is permanently stabilized. Drainage area to an individual drain shall be one acre or less. The elevation of the top of the filter shall be a minimum of 1.5 feet above the top crest elevation of the inlet and a minimum of 6 inches below the elevation of the outside edge of the inside roadway shoulder. SCS shall be size no. 57 stone. The barrier shall be maintained and the sediment removed when accumulated deposits reach 1/2 of the barriers original height.

- Slope Surface Roughening – Roughening the soil on a bare slope with grooves or terraces that run perpendicular to the direction of the slope. This loosens compacted soil on a slope that has been cleared and graded, cut or filled as well as creates small grooves or terraces which reduce runoff velocities, trap seed, fertilizer and sediment, and provided more favorable conditions for vegetation establishment. Slopes that will be mowed should be grooved with shallow grooves 1 to 3 inches deep and no further apart then 10 to 12 inches. Bulldozer treads create grooves perpendicular to the slope. The slope face should not be back-bladed during the final grading operation.

B. Spill Prevention and Response Procedures: If any fuel storage tanks are present on site a dike should be constructed around them in order to contain any accidental spillage. The name and number of a competent hazardous waste disposal contractor shall be posted in the office for use in the event of a spill. The site shall be kept free from the accumulation of solid waste and other good housekeeping procedures implemented.

C. Operation and Maintenance: The best management practices once implemented must be maintained to insure that satisfactory operation continues. Vegetative growth must be checked frequently and action taken if the growth rate is not satisfactory.

D. Report and Record Keeping

- Monthly inspections described above must be documented on copies of the “Monthly Inspection Report and Certification Form” are provided in the Large Construction Forms Package and to be kept with the SWPPP.
- Within thirty (30) days of final stabilization for a covered project, a completed Request for Termination (RFT) of Coverage form, provided in the Large Construction Forms Package, shall be submitted to

MDEQ. Upon receiving the completed RFT, the MDEQ staff will inspect the site. If no sediment and erosion control problems are identified and adequate permanent controls are established, the owner or operator will receive a termination letter.

- All records, reports, forms and information resulting from activities required by this permit shall be retained for a period of three (3) years from the date that the document(s) was generated. This should include, but not be limited to, all maintenance activities, spills, and inspections, including a description of the quality and quantity of storm water.

E. Employee Training: A staff meeting shall be held for the purpose of discussing the Storm Water Pollution Prevention Plan's components and goals.

F. Housekeeping Practices: Pollutants that may enter storm water from construction sites because of poor housekeeping include oils, grease, paints, gasoline, solvents, litter, debris, and sanitary waste. During construction activities, the contractor is required to:

- designate areas for equipment maintenance and repair
- provide waste receptacles at convenient locations and provide regular collection of waste
- provide protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials
- provide adequately maintained sanitary facilities

G. Prohibited Non-Storm Water Discharges: The following is a list of non-storm water discharges that are PROHIBITED at any point during the construction process:

- Wastewater from washout of concrete (unless managed by an appropriate control).
- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials.
- Fuels, oils, or other pollutants used in vehicle or equipment operation and maintenance.
- Soaps or solvents used in vehicle and equipment washing.
- Wastewater from sanitary facilities, including portable toilets.

IV. CONSTRUCTION SEQUENCE

1. Obtain plan approval and all other permits as needed;
2. Hold a pre-construction conference to review all needed BMP's;
3. Contractor to submit Prime Contractor Certification form to permitting agency;
4. Begin minor clearing to install stabilized construction entrances at initial points of egress, construct silt basins, and perimeter silt fence. Control measures should be installed to coincide with subsequent construction activities and at the time they are deemed to be most effective;
5. Begin major clearing and grubbing operations after key sediment controls are installed;
6. Install temporary diversions, where applicable, along steep cleared and grubbed slopes to divert runoff toward silt basins and other controls;
7. As clearing and grubbing operations progress, areas where earthwork and grading will not commence within 14 days shall immediately be stabilized with temporary grassing;
8. Mark temporary buffer zones along those blue streams that are identified on a quadrangle map and erosion control plans. Install a double row of orange silt fence barrier along the field side of the temporary buffer zones;
9. Burn all remaining cleared vegetative waste debris in accordance with MDEQ and MDOT requirements and regulations;
10. Topsoil stripping will be stockpiled in designated areas, but shall not block or impede drainage. Any soil material stockpiled on the site will be encircled by silt fence maintained near the lower elevation contours. Temporary vegetative cover will be applied immediately to any stockpiles that will not be in use for a period of 14 days or more;
11. Begin excavation, fill construction, and grading and install erosion and sediment control measures as construction progresses. Measures shall be installed at the time they are deemed to be most effective;
12. As fill material is placed, install slope drains and temporary diversions to convey runoff down the slopes at selected locations and avoid excessive runoff from draining over fill slopes;
13. Limit the disturbed areas until it is necessary and schedule construction activities to limit impact from seasonal weather;
14. Material from the topsoil stripping stockpiles will be incorporated onto the slopes as cut and fill sections are finished prior to permanent grassing;
15. As cut and fill slopes are finished, permanent grassing will be implemented on every 10 foot vertical change in elevation or within immediately upon completing final grading operations within an area;
16. Stabilize areas by final grading; permanent controls; and permanent fertilizing, seeding, and mulching;

17. Remove temporary erosion and sediment controls as permanent storm water practices are implement, but not prior to final stabilization of the area and obtaining adequate vegetative cover;
18. Perform final maintenance of permanent storm water management controls;
19. Complete and submit the Request for Termination (RFT) of Coverage.

V. IMPLEMENTATION SCHEDULE

A. Structural Measures: The non-existing structural measures shall be installed as the weather permits, and the existing measures shall be re-conditioned as well. General implementation principles are:

- install downslope and perimeter controls before other site work
- build sediment basins before major site grading
- divert upslope water around area before major site grading
- do not disturb an area until it is necessary
- time construction activities to limit impact from seasonal weather
- cover or stabilize disturbed area as soon as possible
- do not remove temporary controls until after site stabilization

B. Vegetative Measures: Vegetative plantings will be performed in accordance with the planting and seeding schedule found in the Mississippi SWPPP Guidance Manual. Structural measures shall be grassed during the first open planting season after completion. Construction should be scheduled in order that unvegetated exposure is minimized.

1. Temporary Vegetative Planting: Includes annual grasses that sprout quickly such as annual rye, brown top millet, oats, and winter wheat. Mulching is the placement of hay grass, woodchips, straw, or synthetic material on the soil to provide temporary cover to protect the soil from rain. Mulching may be the only option during the winter when seeding or sodding is not possible. Temporary vegetation must be provided when a disturbed area is left undisturbed for fourteen (14) days or more. The appropriate temporary vegetative practices shall be implemented immediately after being disturbed. If the soil has been compacted by heaving equipment, the top four inches of the soil bed shall be tilled before re-vegetation.

2. Permanent Vegetative Planting: Includes establishing a permanent vegetative cover on disturbed areas using sod, perennial seed, trees, or shrubs is required. Silt fences, and other temporary measures must be removed following the permanent stabilization. Permanent vegetative cover shall be implemented when a disturbed area will be left undisturbed for fourteen (14) days or more and shall be implemented immediately after being disturbed. If the soil has been compacted by heaving equipment, the top four inches of the soil bed shall be tilled before re-vegetation.

VI. PERMIT NOTIFICATIONS

The Owner and/or Contractor shall notify the permitting agency by certifying and submitting a Prime Contractor Certification Form and Notice of Termination as required by the Large Construction Storm Water General Permit for storm water discharges for this project as stated below. The Owner and/or Contractor shall maintain copies of all correspondence with the permitting agency with the SWPP Plan for the duration of the contract.

VII. PRIME CONTRACTOR CERTIFICATION FORM

A Large Construction Notice of Intent (LCNOI) and the SWPPP required by the State of Mississippi will be filed by the owner with the permitting agency prior to the award of the contract. Each Prime Contractor shall complete the Prime Contractor Certification Form indicating that he takes responsibility for permit compliance and meeting permit conditions for his particular phase of the overall project as specified in Section II-C. Each Prime Contractor shall certify and submit the Prime Contractor Certification form to the permitting agency at least 48 hours prior to commencement of construction activities. The Contractor shall also furnish two (2) copies of the submitted documentation to the Owner and Owner's Representative at this time.

VIII. INSPECTIONS AND RECORDS AND REPORTING

A. Inspections: Inspections 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, and inspection shall be performed by qualified personnel representing each Prime Contractor:

1. At least weekly for a minimum of four inspections a month; and after rainfall events that produce a discharge.

2. As often as necessary to insure that appropriate erosion and sediment controls have been properly constructed and maintained and to determine if additional or alternative control measures are required.

3. Inspection reports must be included with the Contractor's monthly progress pay applications.

Before conducting the site inspection, the inspector should review Chapter 4, Inspector's Checklist and Troubleshooting Chart found in MDEQ's Field Manual for Erosion and Sediment Control on Construction Sites in Mississippi. MDEQ strongly recommends that coverage recipients perform a "walk through" inspection of the construction site before anticipated storm events to ensure controls are in place and will function properly. The minimum inspection requirement in no way relieves the permittee of performing whatever inspections are needed to insure safe and pollution free facility operation. A copy of an inspection report is provided in the Appendix.

B. Records and Reporting:

1. The Contractor(s) must inspect, as described in above section, and maintain controls and prepare reports noting damages or deficiencies and corrective measures on the Monthly Inspection Report and Certification Form. These inspection reports along with all records and the storm water pollution prevention plan are to be kept for a period of three years from the date that the site is finally stabilized.

2. Non-Compliance Reporting

- Anticipated Noncomplinace: The coverage recipient shall give at least ten (10) days advance notice, if possible, before any planned noncompliance with permit requirements. Giving notice of planned or anticipated noncompliance does not immunize the coverage recipient from enforcement action for that noncompliance.

- Unanticipated Noncomplinace: The coverage recipient shall notify the MDEQ orally within twenty-four (24) hours from the time he or she becomes aware of unanticipated noncompliance, which may endanger health or the environment. A written report shall be provided to the MDEQ within five (5) working days of the time he or she becomes aware of the circumstances leading to the

unanticipated noncompliance. The report shall describe the cause, the exact dates and times, steps taken or planned to reduce, eliminate, or prevent reoccurrence and, if the noncompliance has not ceased, the anticipated time for correction. MDEQ may waive the written report on a case-by-case basis, if the oral report is received within 24 hours.

IX. REVISIONS

The storm water pollution prevention plan will be kept current by the Contractor and will be revised as changes in site conditions warrant. The Contractor may notify the Owner's Representative for assistance when necessary. Factors that would compel the SWPPP to be modified include:

- Inadequacies revealed by routine inspections.
- Changes in identified sources, non-storm water discharges, or non-storm water solid wastes.
- Office of Pollution Control notification that the plan does not meet one or more of the minimum requirements.

A plan revision will be completed within 30 days of the date if determined that a revision is warranted. If the modification is in response to a request by the Office of Pollution Control, the permittee must submit to the OPC certification that the requested changes have been made.

X. REQUEST FOR TERMINATION

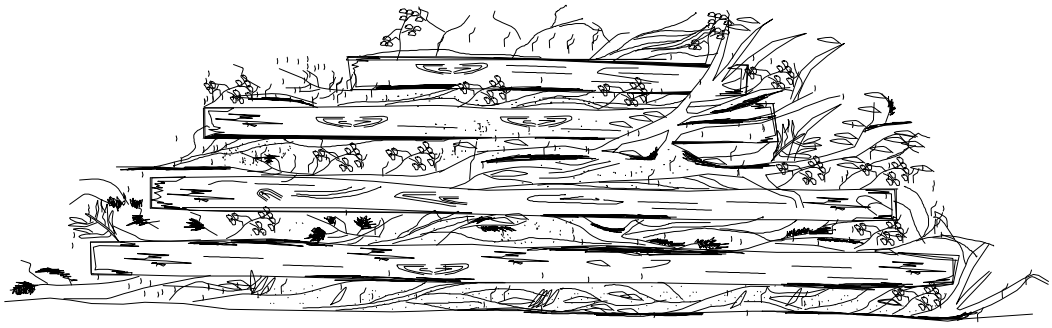
Within thirty (30) days of final stabilization for a covered project, a completed Request for Termination (RFT) of Coverage form (provided in Appendix) shall be submitted to the Permit Board by the Owner. Upon receiving the completed RFT, the MDEQ staff will inspect the site. If no sediment and erosion control problems are identified and adequate permanent controls are established, the owner or operator will receive a termination letter. Coverage is not terminated until notified in writing by MDEQ.

XI. INSPECTION SUSPENSION FORM

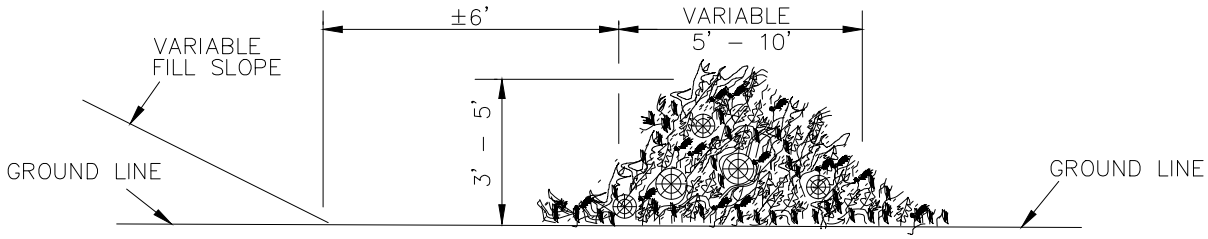
The Contractor may request the suspension of weekly inspection and monthly reporting requirements on portions of the project area if the Contractor certifies that: (1) land disturbing activities have temporarily ceased; (2) no further land disturbing activities are planned for a period of at least 6 months; (3) the site is stable with no active erosion; (4) vegetative cover has been established.

The Contractor shall submit to the permitting agency a completed Inspection Suspension Form along with color photographs representative of the site as stipulated in the Large Construction Storm Water General Permit. The Contractor shall notify MDEQ once construction activities are resumed and the weekly inspections shall commence immediately and as required by the permit. The Contractor shall still be responsible for all permit conditions during any suspension period. Copies of this documentation shall be furnished to the Owner and Engineer.

XII. DETAILS OF BEST MANAGEMENT PRACTICES



FRONT ELEVATION



SIDE ELEVATION

DETAIL: (BB)
BRUSH SEDIMENT BARRIER

TEMPORARY EROSION CONTROL MEASURE

NOTES:

1. BRUSH BARRIERS SHALL BE INSTALLED TO FILTER SEDIMENT FROM SURFACE RUNOFF.
2. BARRIERS SHALL BE PERIODICALLY CHECKED AND IF FLOW IS OBSTRUCTED, BUILD–UP OF SEDIMENT SHALL BE REMOVED.
3. BRUSH BARRIERS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
4. AREAS DISTURBED AS A RESULT OF REMOVING THE BRUSH BARRIER SHALL BE RESTABILIZED BY SEEDING ACCORDING TO THE REVEGETATION SPECIFICATIONS.
5. BRUSH BARRIERS TO USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.

CONSTRUCTION:

1. PLACE BRUSH, LOG, AND TREE LAPS PERPENDICULAR TO FLOW DIRECTION WITH SOME HEAVIER MATERIALS ON TOP FOR STABILITY.
2. INTERMINGLE BRUSH, LOG, AND TREE LAPS SO AS NOT TO FORM A SOLID DAM AND OBSTRUCT FLOW OF WATER.

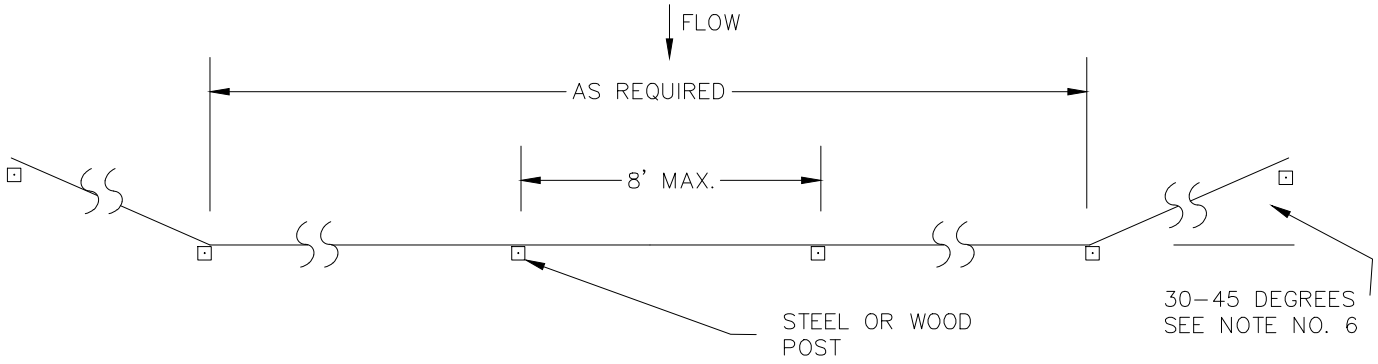
MENDROP
ENGINEERING RESOURCES
854 WILSON DRIVE
SUITE A
RIDGELAND, MS 39157
TEL (601) 899–5158
FAX (601) 899–5110

BRUSH BARRIER DETAIL

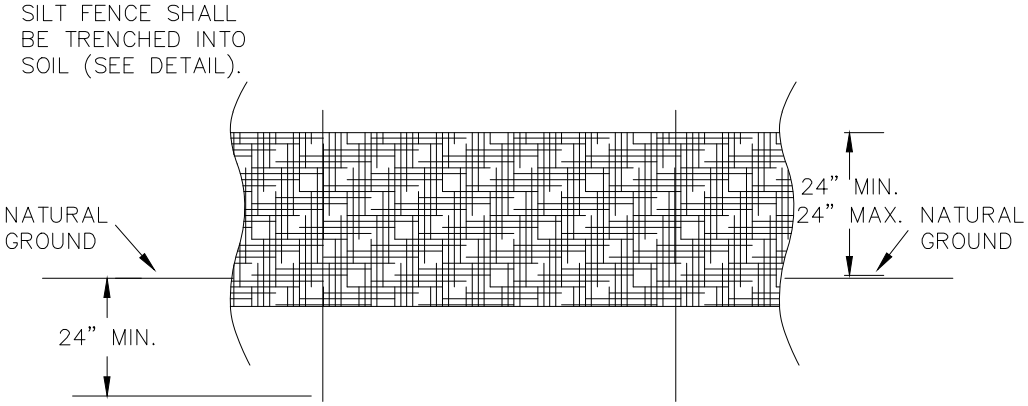
DRAWN BY: MEM

DATE: APR., 2016

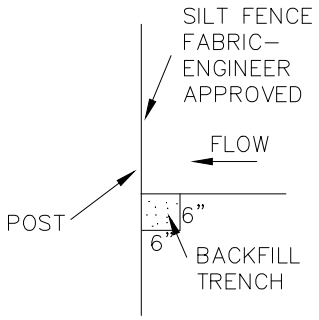
SCALE: NONE



PLAN



ELEVATION



TRENCH DETAIL

DETAIL: (SF) SILT FENCE

TEMPORARY EROSION CONTROL MEASURE

NOTES:

1. SILT FENCE OR HAY BALE SEDIMENT BARRIER SHALL BE INSTALLED TO FILTER SEDIMENT FROM RUNOFF.
2. SEDIMENT BUILD–UP SHALL BE REMOVED WHEN SEDIMENT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.
3. SILT FENCE SHALL BE LEFT IN PLACE UNTIL PERMANENT VEGETATION COVER IS ESTABLISHED.
4. AREAS DISTURBED AS A RESULT OF REMOVING THE SILT FENCE SHALL BE RESTABILIZED BY SEEDING ACCORDING TO THE REVEGETATION SPECIFICATIONS.
5. AREA BEHIND THE SILT FENCE IS LIMITED TO 1/4 ACRE PER 100 FEET OF SILT FENCE.
6. ON UPSLOPE INSTALLATIONS, BOTH ENDS OF THE SILT FENCE SHALL BE TURNED AND EXTENDED UPSLOPE.
7. SILT FENCES ARE TO BE USED IN MINOR SWALES WITH DRAINAGE AREAS OF LESS THAN 2 ACRES, AND NOT TO BE INSTALLED IN LIVE STREAMS.
8. MAXIMUM SLOPE LENGTH BEHIND SILT FENCE SHALL BE 100 FEET.
9. MAXIMUM SLOPE BEHIND SILT FENCE SHALL BE 2:1.

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SILT FENCE DETAIL

DRAWN BY: MEM

DATE: APR., 2016

SCALE: NONE

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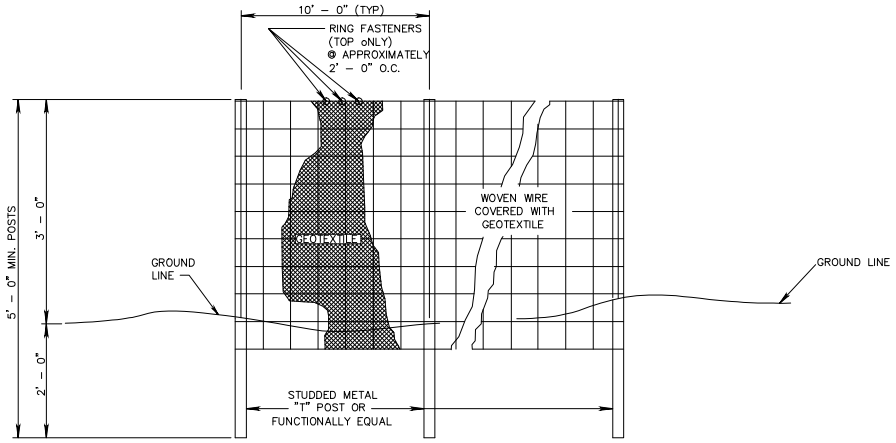
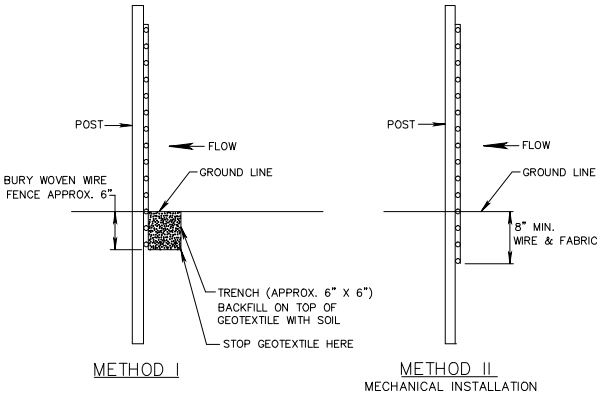
FAX (601) 899-5110

SILT FENCE INSTALLATION DETAILS



ELEVATION VIEW

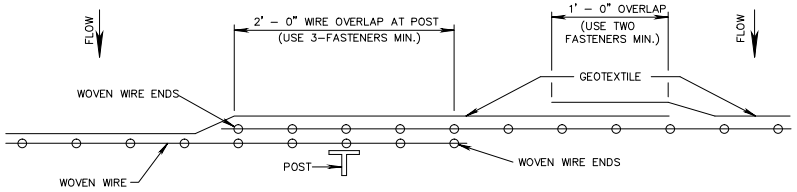


METHOD I

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,



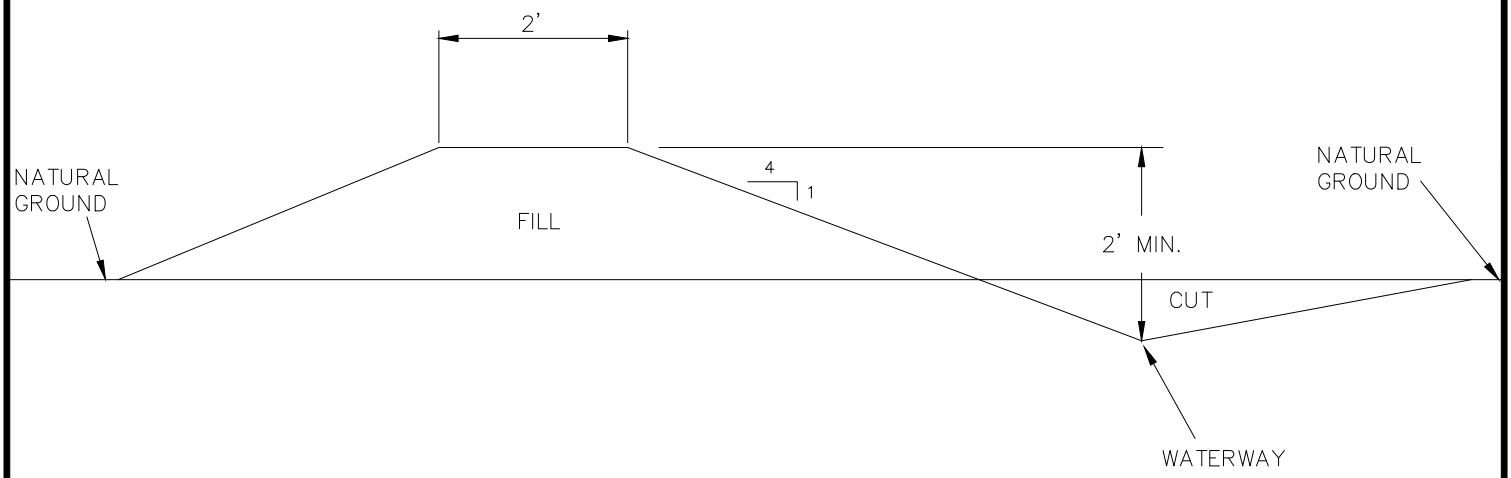
PLAN VIEW

REQUIRED LAPPING

DRAWN BY: MEM

DATE: APR., 2016

SCALE: NONE



DETAIL: (D)
DIVERSION

PERMANENT EROSION CONTROL MEASURE

NOTES:

1. DIVERSIONS SHALL BE CONSTRUCTED IN ORDER TO PREVENT UNCONTAMINATED RUNOFF FROM UNDISTURBED AREAS FROM ENTERING THE SITE.

2. DIVERSIONS SHOULD DIVERT RUNOFF TO A SATISFACTORY OUTLET TO PREVENT EROSION.

3. DIVERSIONS SHALL BE CONSTRUCTED IN ORDER TO DIVERT STORM WATER TO A SEDIMENT TRAP OR A STORM WATER RETENTION STRUCTURE.

4. THE WATER WAY SHALL BE GRADED IN ORDER TO PROVIDE POSITIVE DRAINAGE AT GENTLE SLOPES (1% – 4%).

5. DIVERSIONS REQUIRE ROUTINE MAINTENANCE IN ORDER TO INSURE THAT THEY WILL FUNCTION PROPERLY.

6. SEDIMENT SHOULD BE PERIODICALLY REMOVED AND THE WATERWAY GRADED.

7. PERMANENT VEGETATION SHOULD BE ESTABLISHED ON DIVERSIONS WITHIN 7 DAYS, IF CONSTUCTED DIVERSION BERM IS TO BE LEFT UNDISTURBED FOR MORE THAN 30 DAYS.

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DIVERSION DETAIL

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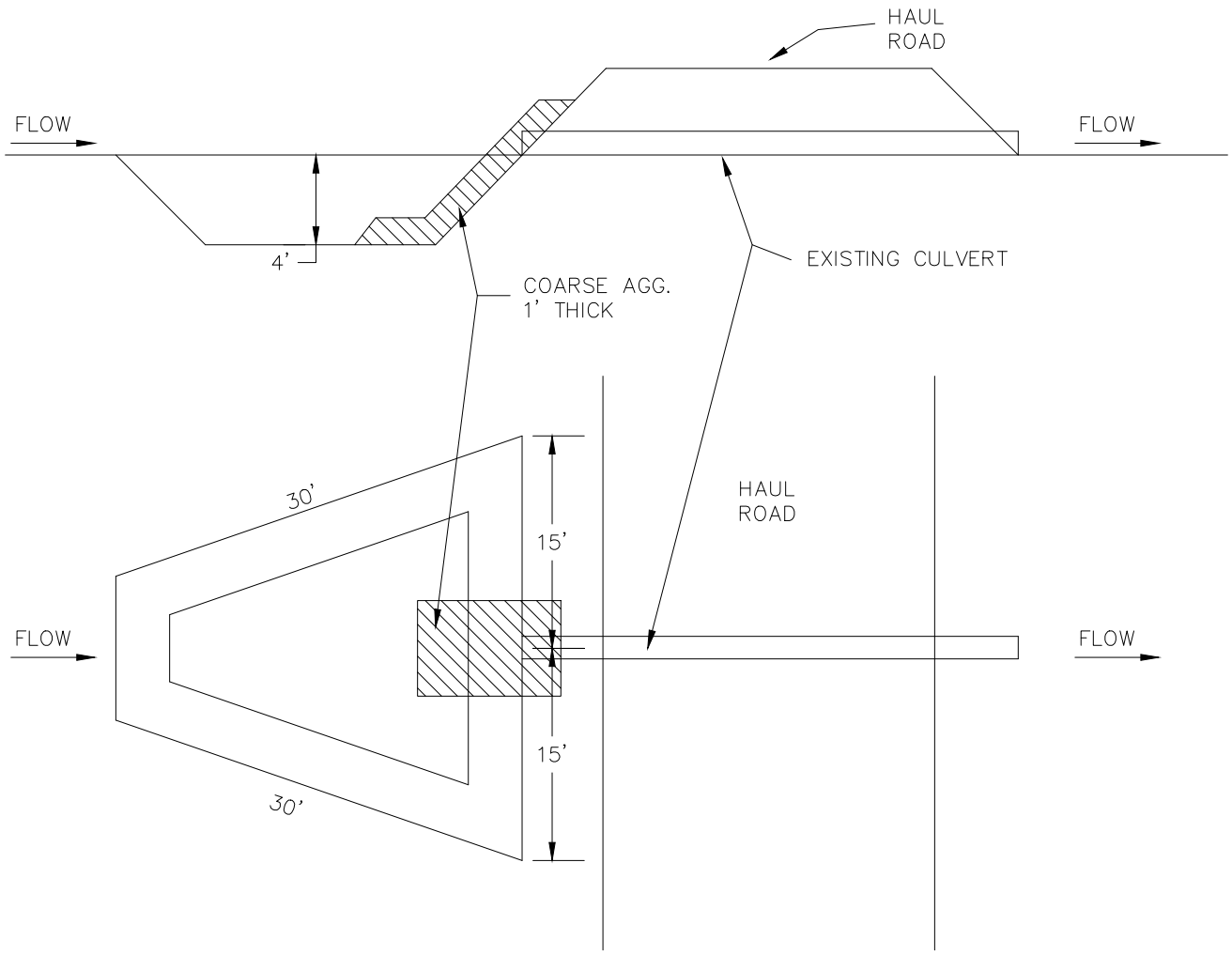
DATE: APR., 2016

SCALE: NONE



DETAIL: ST

SEDIMENT TRAP

PERMANENT EROSION CONTROL MEASURE

NOTES:

1. SEDIMENT TRAPS SHALL BE INSTALLED UPSTREAM OF ALL HAUL ROAD CROSS DRAINS IN ORDER TO REMOVE SEDIMENT FROM SURFACE RUNOFF.

2. SEDIMENT ACCUMULATIONS SHALL BE REMOVED AS NEEDED.

3. SEDIMENT TRAPS SHALL HAVE A MINIMUM CAPACITY OF 134 CUBIC YARDS PER ACRE OF AREA DRAINED.

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SEDIMENT TRAP DETAIL

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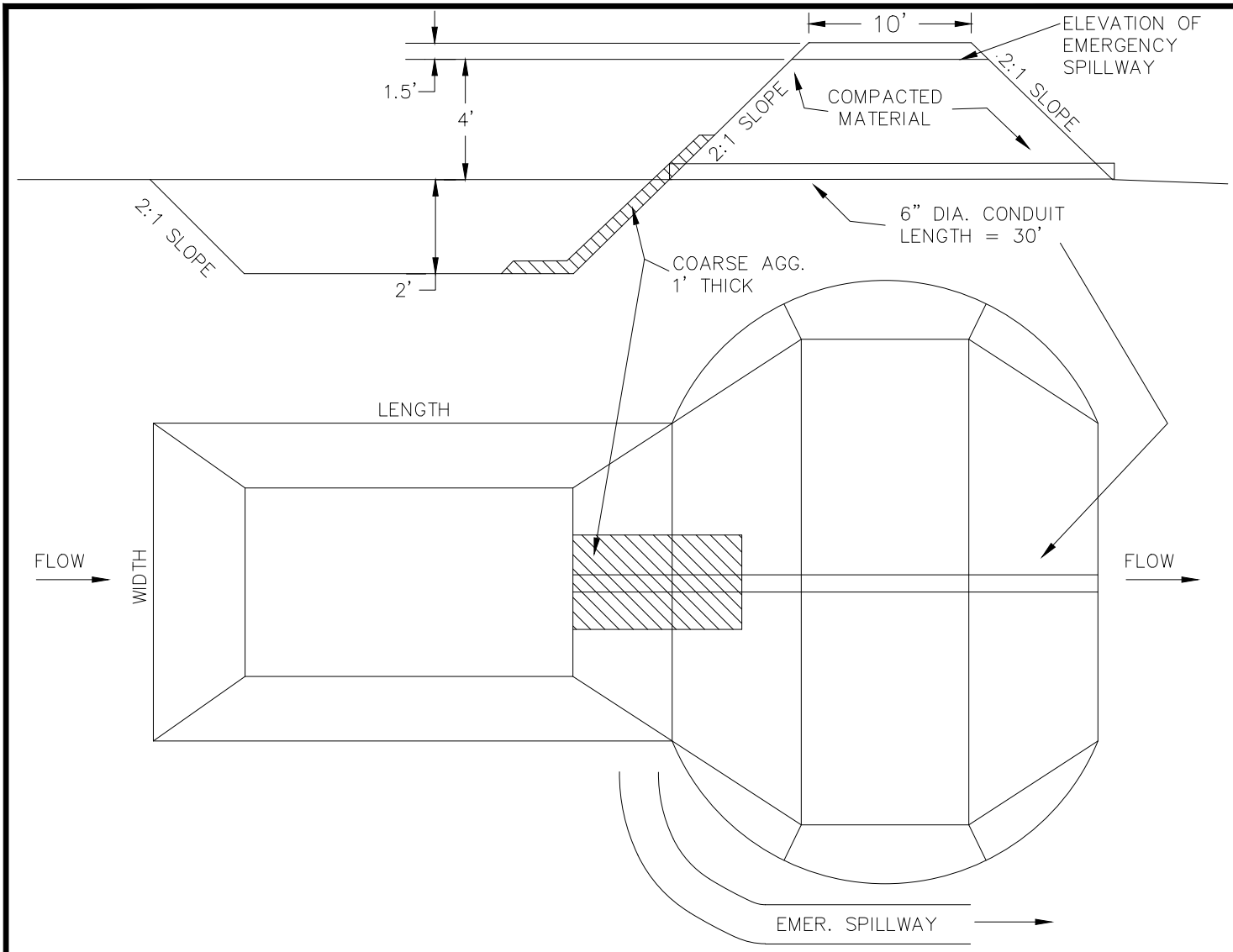
SCALE: NONE



DETAIL: SWRS

STORM WATER RETENTION STRUCTURE

PERMANENT EROSION CONTROL MEASURE

NOTES:

1. A STORMWATER RETENTION STRUCTURE SHALL BE INSTALLED WHERE THE MAIN DRAIN LEAVES THE PROPERTY.
2. SEDIMENT ACCUMULATIONS SHALL BE REMOVED AS NEEDED.
3. EMBANKMENT SHALL BE CONSTRUCTED WITH COMPACTED MATERIAL. COMPACTION SHALL BE ACHIEVED BY ROUTING OF SPREADING AND HAULING EQUIPMENT.
4. AN EMERGENCY SPILLWAY SHALL BE CONSTRUCTED 10 FEET WIDE AT AN ELEVATION 1.5 FEET BELOW THE TOP OF THE EMBANKMENT.
5. PERMANENT VEGETATION SHALL BE ESTABLISHED ON THE EMBANKMENT.
6. STORMWATER RETENTION STRUCTURE SHALL HAVE A MIN. CAPACITY OF 134 CUBIC YARDS PER ACRE OF AREA DRAINED.
7. STORMWATER RETENTION STRUCTURE SHALL BE USED AS A SEDIMENT TRAP DURING CONSTRUCTION.

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STORM WATER RETENTION STRUCTURE DETAIL

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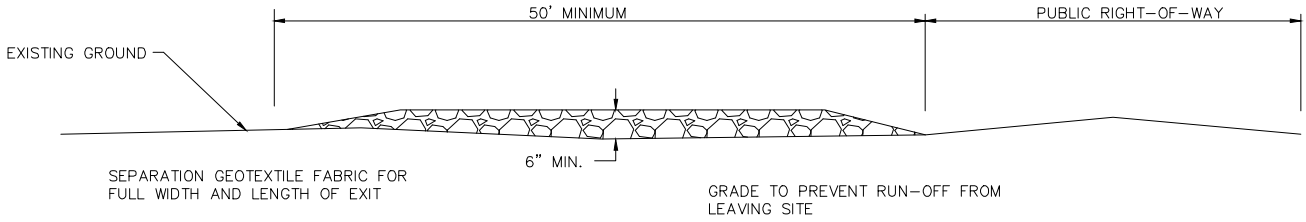
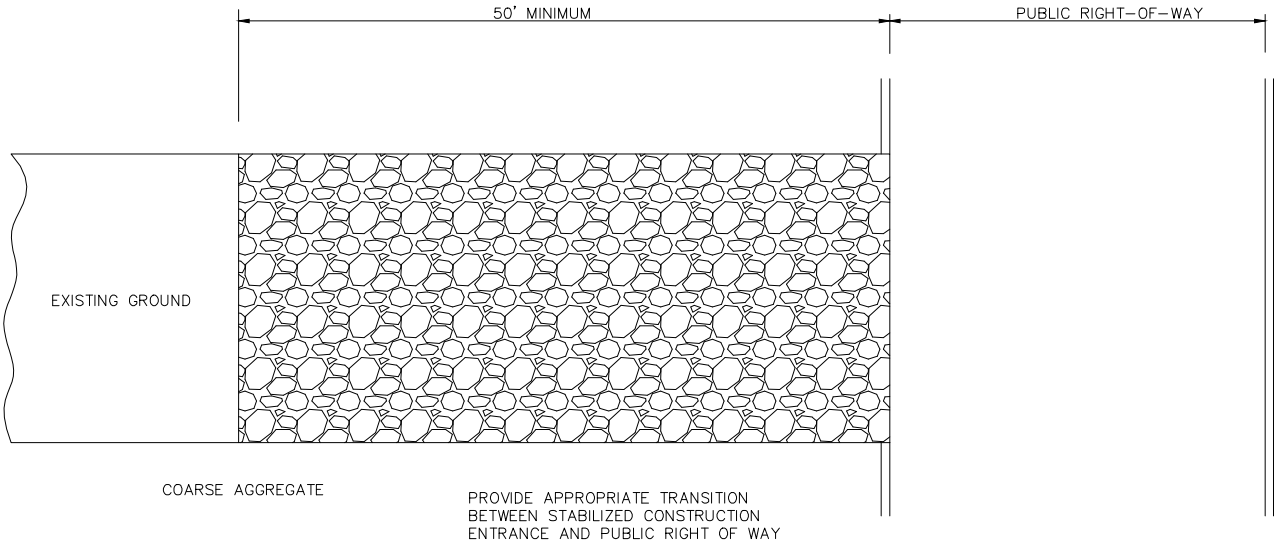
DATE: APR., 2016

SCALE: NONE



PROFILE VIEW



PLAN VIEW

DETAIL: (CE)

TEMPORARY CONSTRUCTION EASEMENT

TEMPORARY EROSION CONTROL MEASURE

NOTES:

1. AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OBJECTIONABLE MATERIAL.
2. ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD INTO PUBLIC RIGHTS-OF-WAYS.
3. PERIODIC TOP DRESSING OF ENTRANCE MAY BE REQUIRED TO REMOVE DEBRIS BUILD-UP.

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TEMPORARY CONSTRUCTION ENTRANCE

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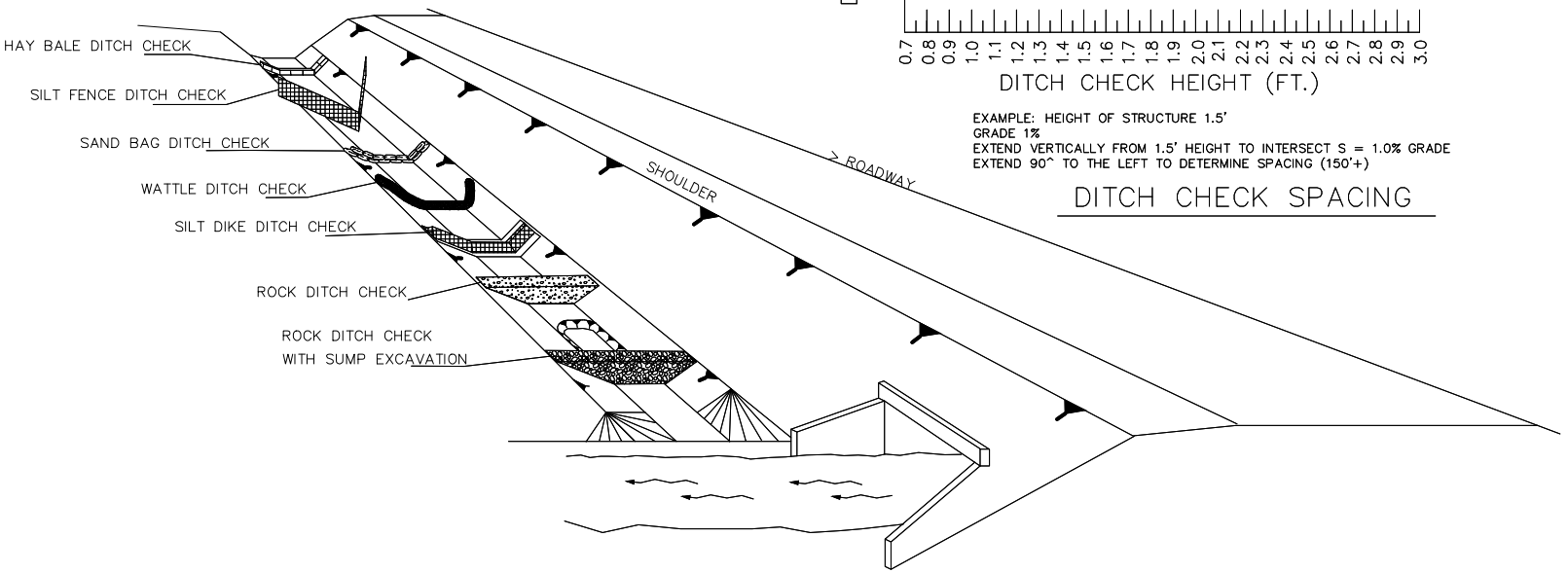
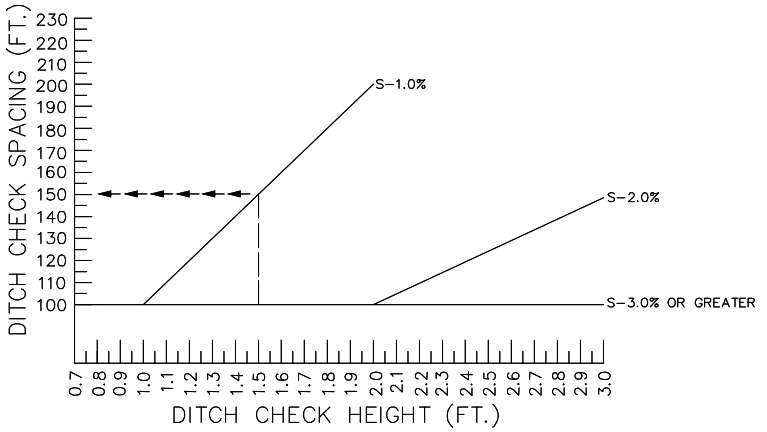
DITCH CHECK STRUCTURES





EXAMPLE: HEIGHT OF STRUCTURE 1.5'
GRADE 1%
EXTEND VERTICALLY FROM 1.5' HEIGHT TO INTERSECT S = 1.0% GRADE
EXTEND 90° TO THE LEFT TO DETERMINE SPACING (150'+)

DITCH CHECK SPACING

NOTES:

1. THE DITCH CHECK PERSPECTIVE ILLUSTRATES A TOOL BOX OF TEMPORARY PRACTICES THAT MAY USED. DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS.
2. SELECTION OF THE APPROPRIATE DITCH CHECK SHOULD BE A FUNCTION OF CONSTRUCTION PHASE, DRAINAGE AREA, DITCH GRADIENT, SOIL TYPE ECONOMY AND SAFETY.
3. DITCH CHECKS CAN BE REMOVED FOR MAINTENANCE AND/OR REPLACEMENT BUT MUST REMAIN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED, MAINTENANCE INCLUDES REMOVAL OF SEDIMENT BEGINNING WHEN SEDIMENT ACCUMULATION REACHES $\frac{1}{3}$ THE CAPACITY OR HEIGHT OF THE STRUCTURE AND NEVER ALLOWING FOR A SEDIMENT TO ACCUMULATE MORE THAN THE VOLUME OF HEIGHT OF THE DITCH CHECK STRUCTURE.
4. HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
5. SILT FENCE DITCH CHECKS ARE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE, SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
6. SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS
7. WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
8. SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED. AS CONSTRUCTION PROGRESSES.
9. ROCK DITCH CHECK WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO ASSURE ON-SITE SEDIMENT TRAPPING REQUIREMENTS ARE MET. DITCH CHECK WITH SUMP EXCAVATION IS USED WHEN DITCHES RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE SOIL EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHALL NOT EXCEED 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIENCY.
10. IN GENERAL, DITCH CHECKS SHOULD NOT BE PLACED IN LIVE STREAMS.
11. CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY THE ENGINEER TO ACCOMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES

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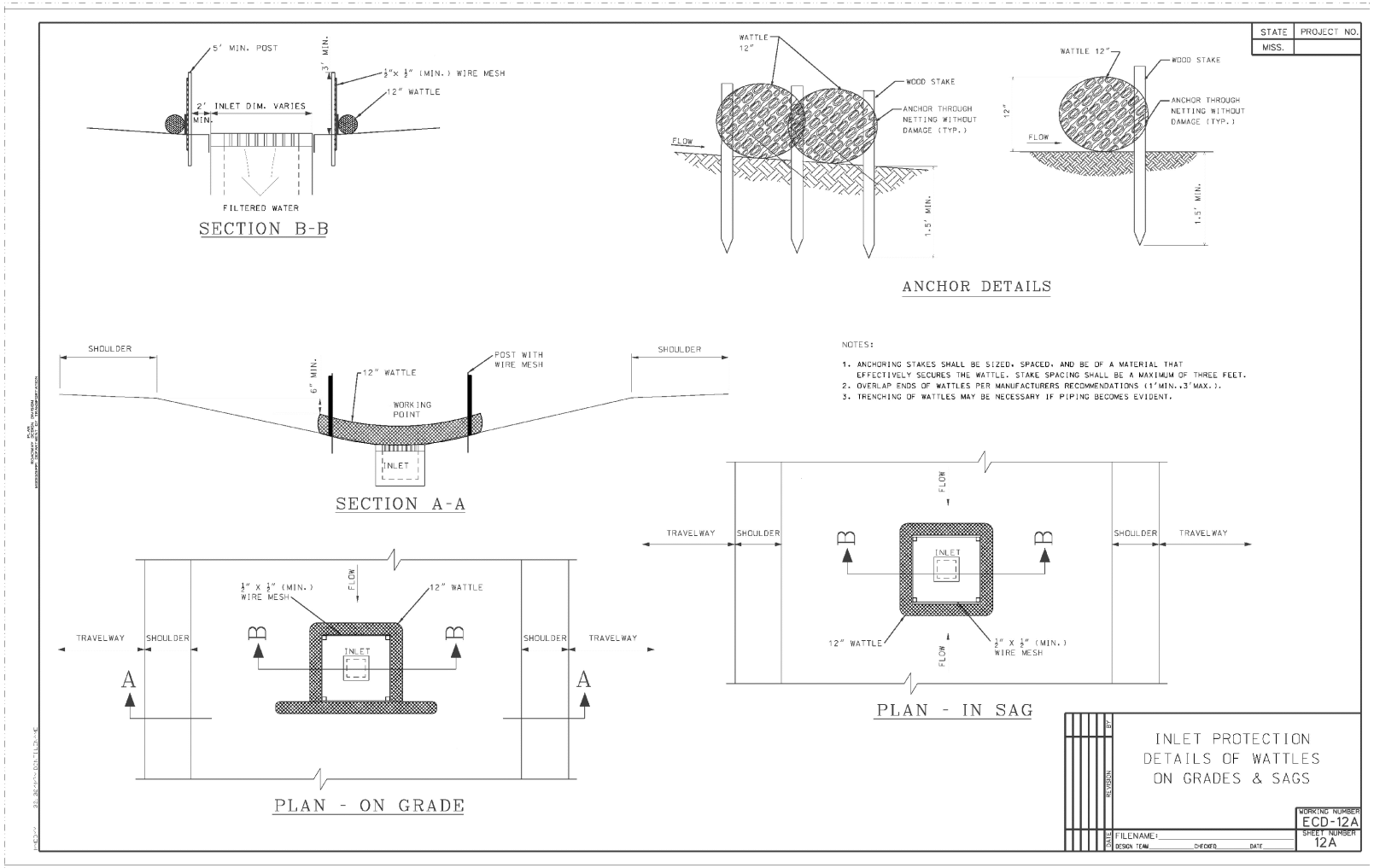
INLET PROTECTION DETAILS OF WATTLES ON GRADES AND SAGS



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 MANUFACTURES RECOMMENDATIONS (1' MIN. , 3' MAX.).
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.

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DATE: APR., 2016

SCALE: NONE

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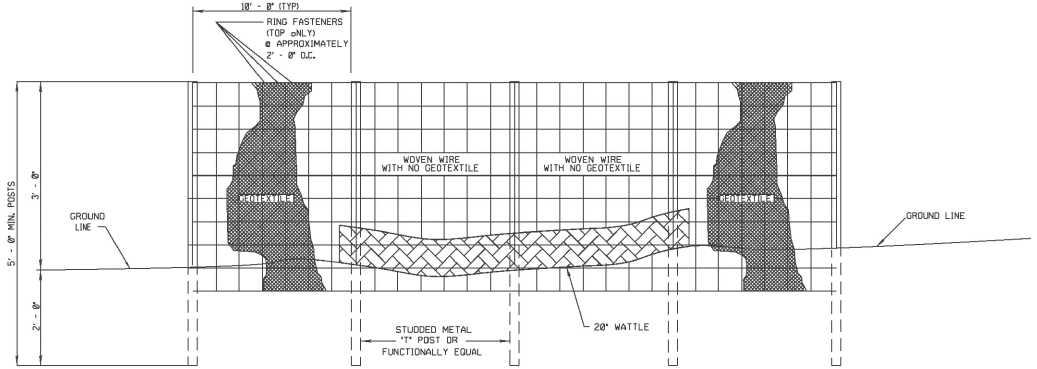
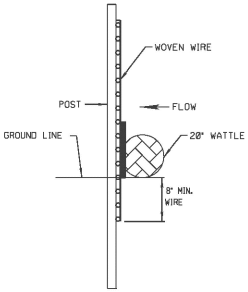
DETAILS OF WATTLE INSTALLATION TO RELEASE WATER THROUGH SILT FENCE



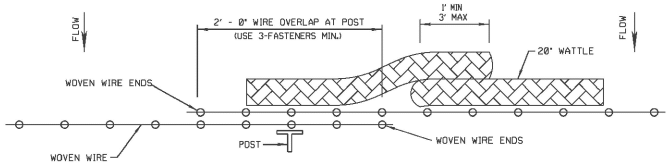
ELEVATION VIEW



SIDE VIEW

NOTES:

1. WATTLES TO RELEASE WATER FROM SILT FENCE SEGMENTS 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.
2. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.



PLAN VIEW

REQUIRED LAPPING

STATE	PROJECT
MISS.	

DETAILS OF WATTLE INSTALLATION TO RELEASE WATER THROUGH SILT FENCE

FILENAME: _____
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING
ECD-
SHEET N
34

NOTES:

1. WATTLES TO RELEASE WATER FROOM SILT FENCE SEGMENTS 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.
2. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

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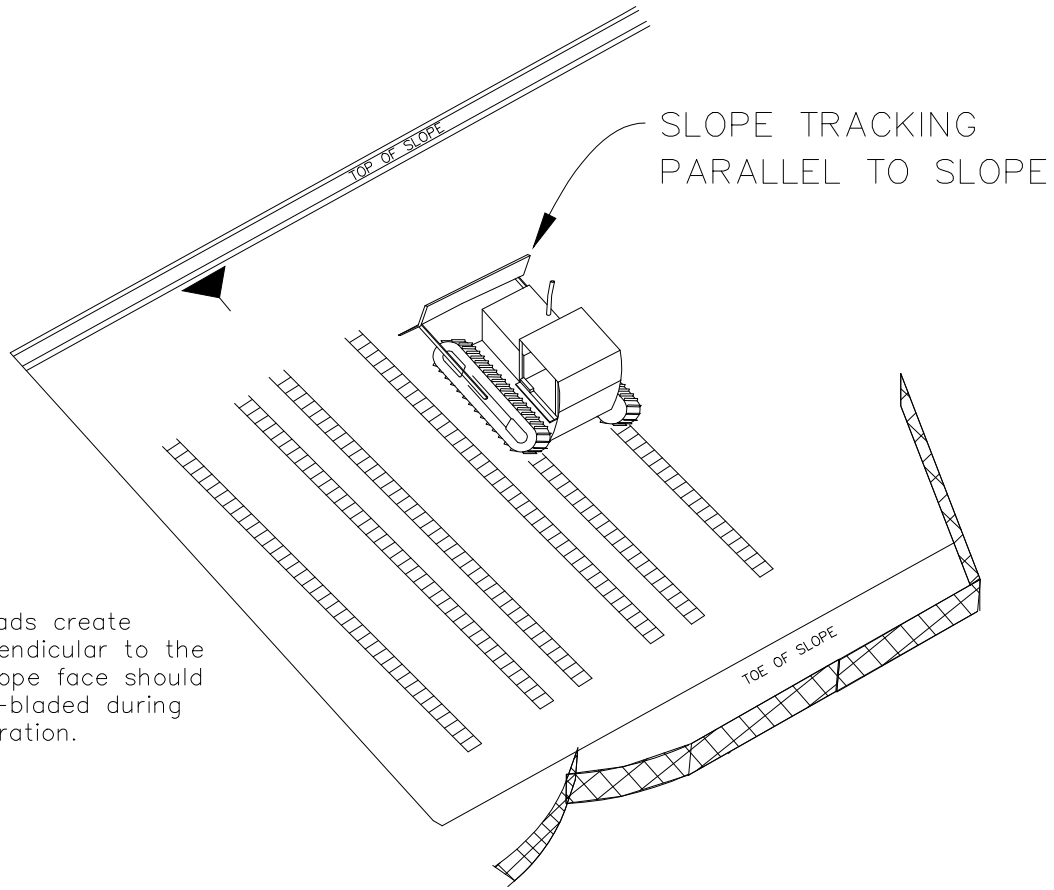
SLOPE SURFACE ROUGHENING DETAIL



Bulldozer treads create grooves perpendicular to the slope. The slope face should not be back-bladed during the final operation.

NOTES:

1. Groves should be cut on the contour (perpendicular to the slope).
2. The depth of cut should be greater than 4 inches and groves should be cut less than 15 inches apart..

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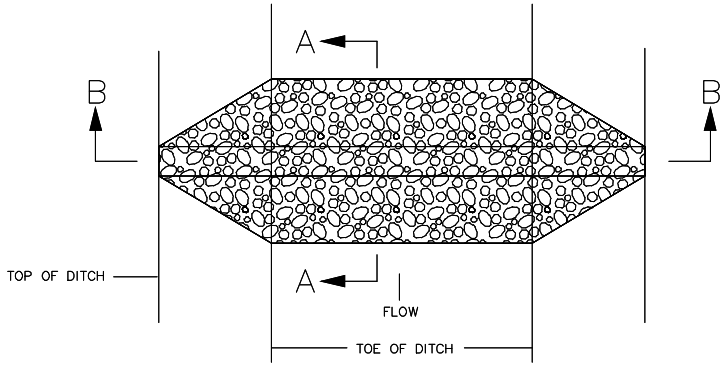
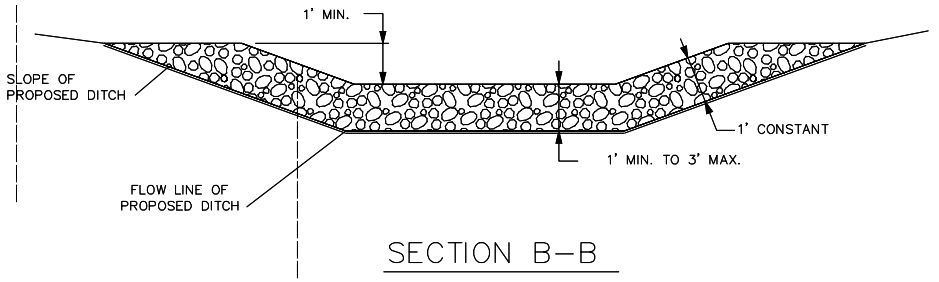
ROCK DITCH CHECK DETAILS

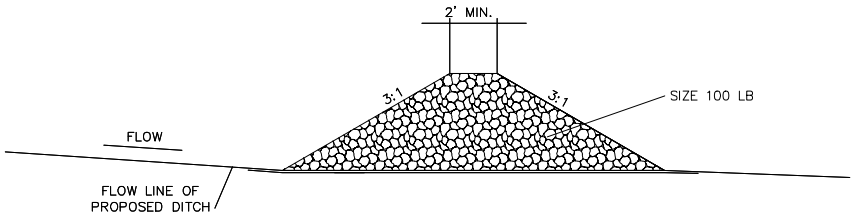


PLAN VIEW

DETAIL FOR TRAPEZOIDAL DITCH

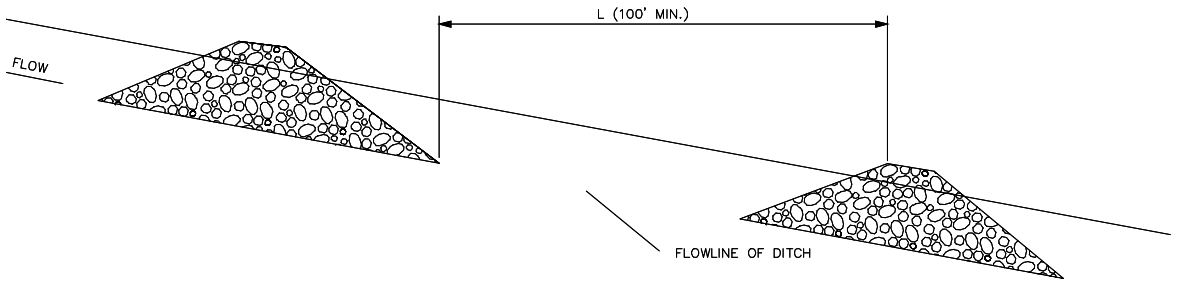


SECTION B–B



SECTION A–A

TEMPORARY ROCK DITCH CHECKS IN ROADSIDE DITCHES



DETAIL FOR SPACING BETWEEN DITCH CHECKS

NOTES:

1. MINIMUM SPACING FOR ROCK DITCH CHECKS SHALL BE 100 FEET OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD–4.
2. ROCK DITCH CHECKS MAY ALSO BE CHOCKED WITH FABRIC.
3. SIZE 300 LB RIP RAP MAY BE USED FOR SPECIFIED APPLICATIONS AS SHOWN ON EROSION CONTROL PLAN

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DATE: APR., 2015

SCALE: NONE

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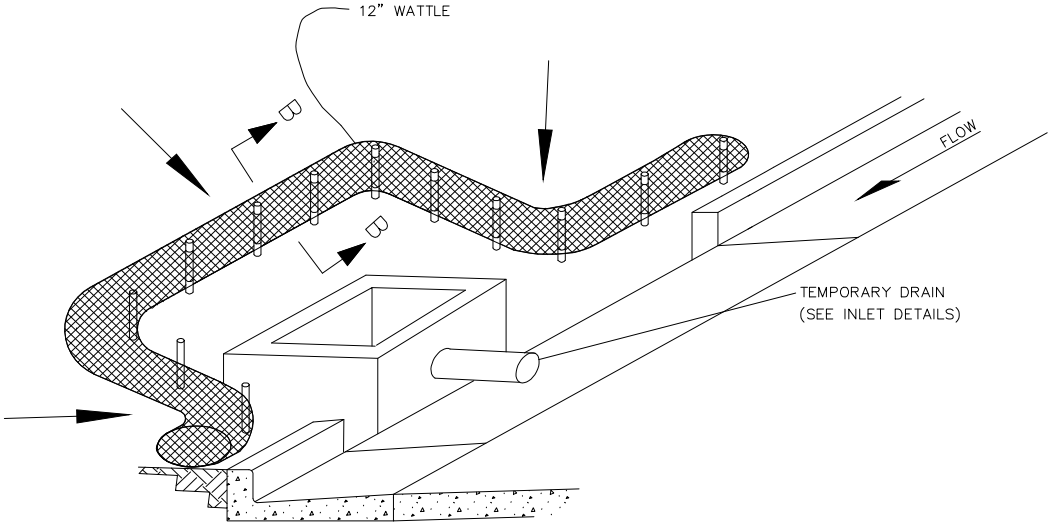
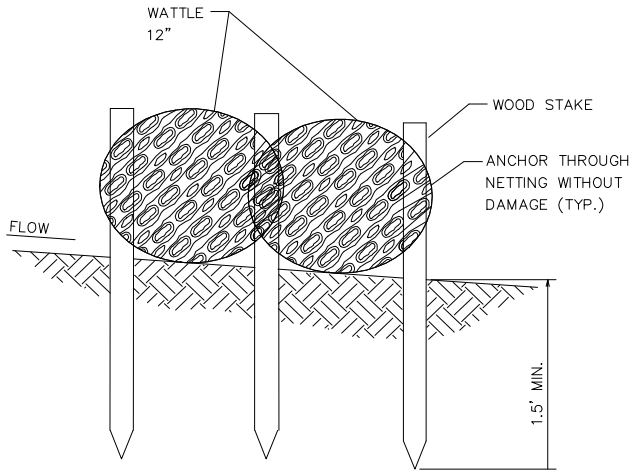
INLET PROTECTION DETAILS OF WATTLES

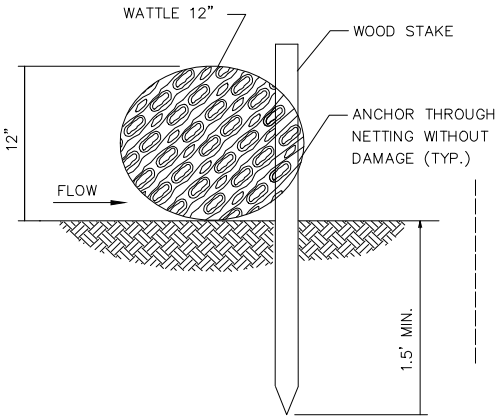
NOTE:
SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION.
HAY BALES NOT ACCEPTABLE DURING THIS STAGE.



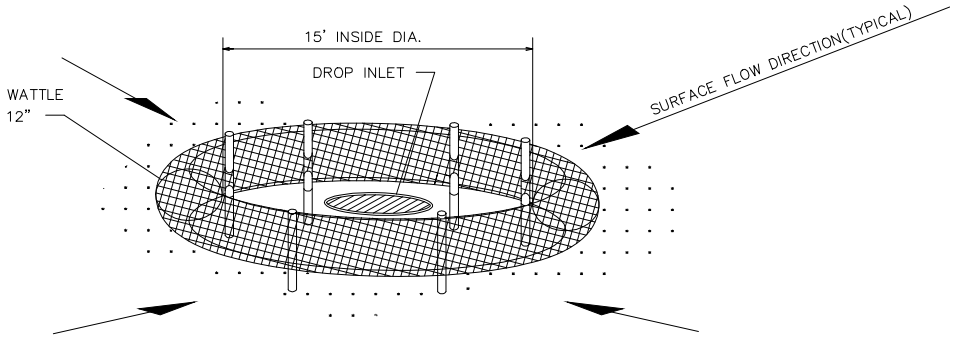
CURB INLET PROTECTION (STAGE 2)
SINGLE OR DOUBLE WING INLET



SECTION A–A



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 MANUFACTURERS RECOMMENDATIONS (1'MIN.,3'MAX.).
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.

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SCALE: NONE

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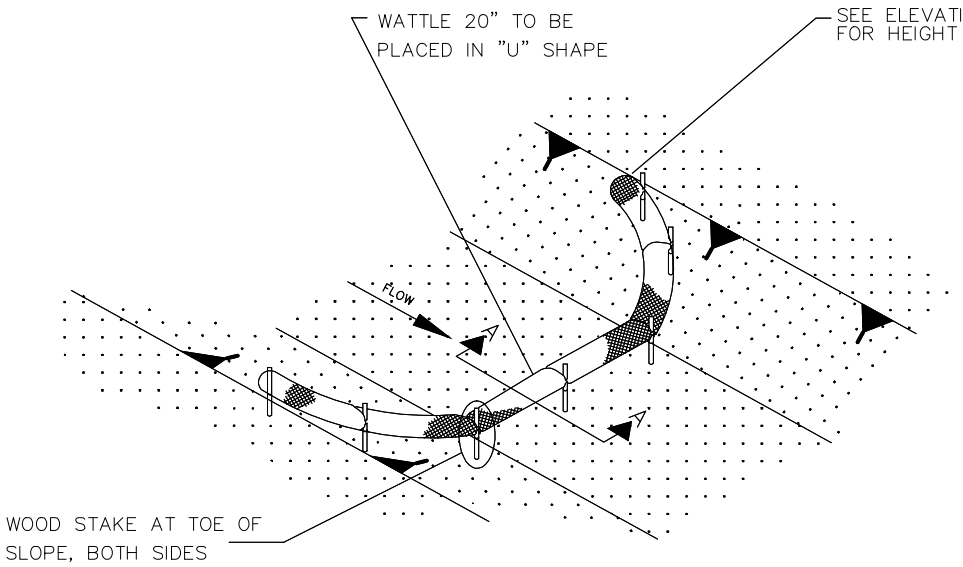
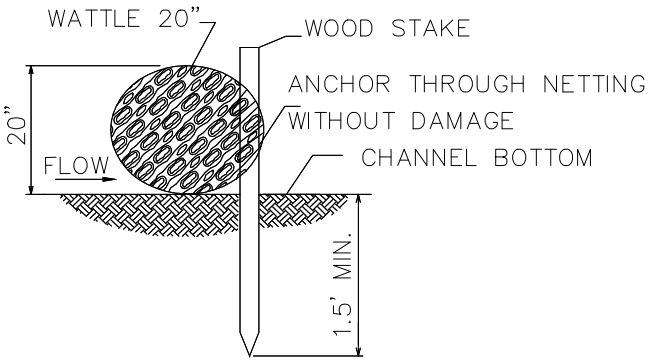
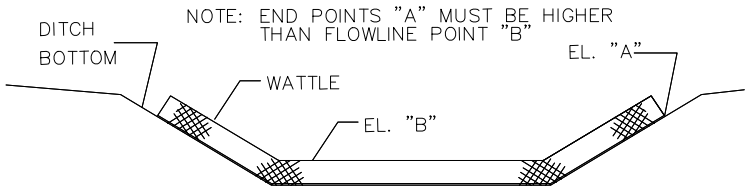
WATTLE DITCH CHECK DETAILS



DETAIL (DITCH CHECK)



SECTION A–A



ELEVATION DETAIL

NOTES:

1. MINIMUM RECOOMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENINGEER. SEE SPACING GUIDANCE ON ECD–4.
2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON–DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPPING BECOMING EVIDENT.
4. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY FEDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS

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SCALE: NONE

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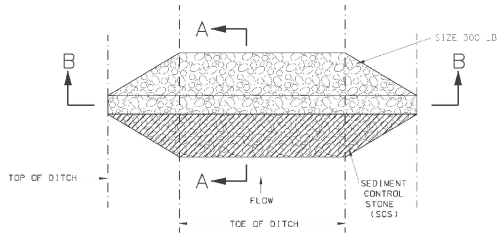
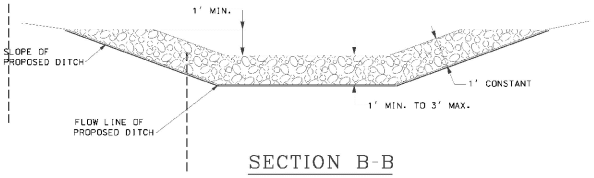
ROCK DITCH CHECK WITH SEDIMENT CONTROL STONE

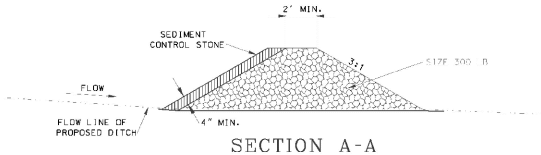
STATE	PROJECT NO.
MISS.	



PLAN VIEW
DETAIL FOR TRAPEZOIDAL DITCH



SECTION B-B

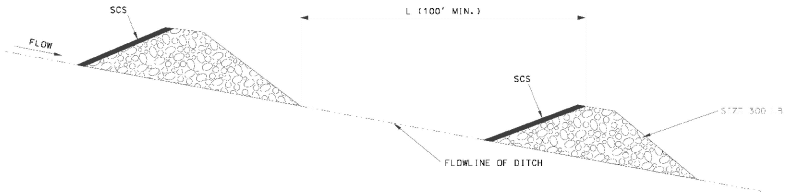


SECTION A-A

TEMPORARY ROCK DITCH CHECKS IN ROADSIDE DITCHES

NOTES:
1. MINIMUM SPACING FOR ROCK DITCH CHECKS SHALL BE 100 FEET OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4

2. SEDIMENT CONTROL STONE SHALL BE SIZE NO. 57 STONE.



DETAIL FOR SPACING BETWEEN DITCH CHECKS

BY	REVISION	DATE

ROCK DITCH CHECK WITH SEDIMENT CONTROL STONE

FILENAME:
DESIGN TEAM CHECKED DATE

WORKING NUMBER ECD-8A
SHEET NUMBER 8A

NOTES:

1. MINIMUM SPACING FOR ROCK DITCH CHECKS SHALL BE 100 FEET OR EROSION CONNTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD–4.

2. SEDIMENT CONTROL SHALL BE SIZE NO. 57 STONE.

DRAWN BY: MEM

DATE: APR., 2016

SCALE: NONE

XIII. LOCATION MAPS AND EROSION CONTROL PLAN

MENDROP

OVERBROOK II
AT REUNION
Section 34 & 35, Township 8N, Range 1E
Madison County, Mississippi
Aerial Map

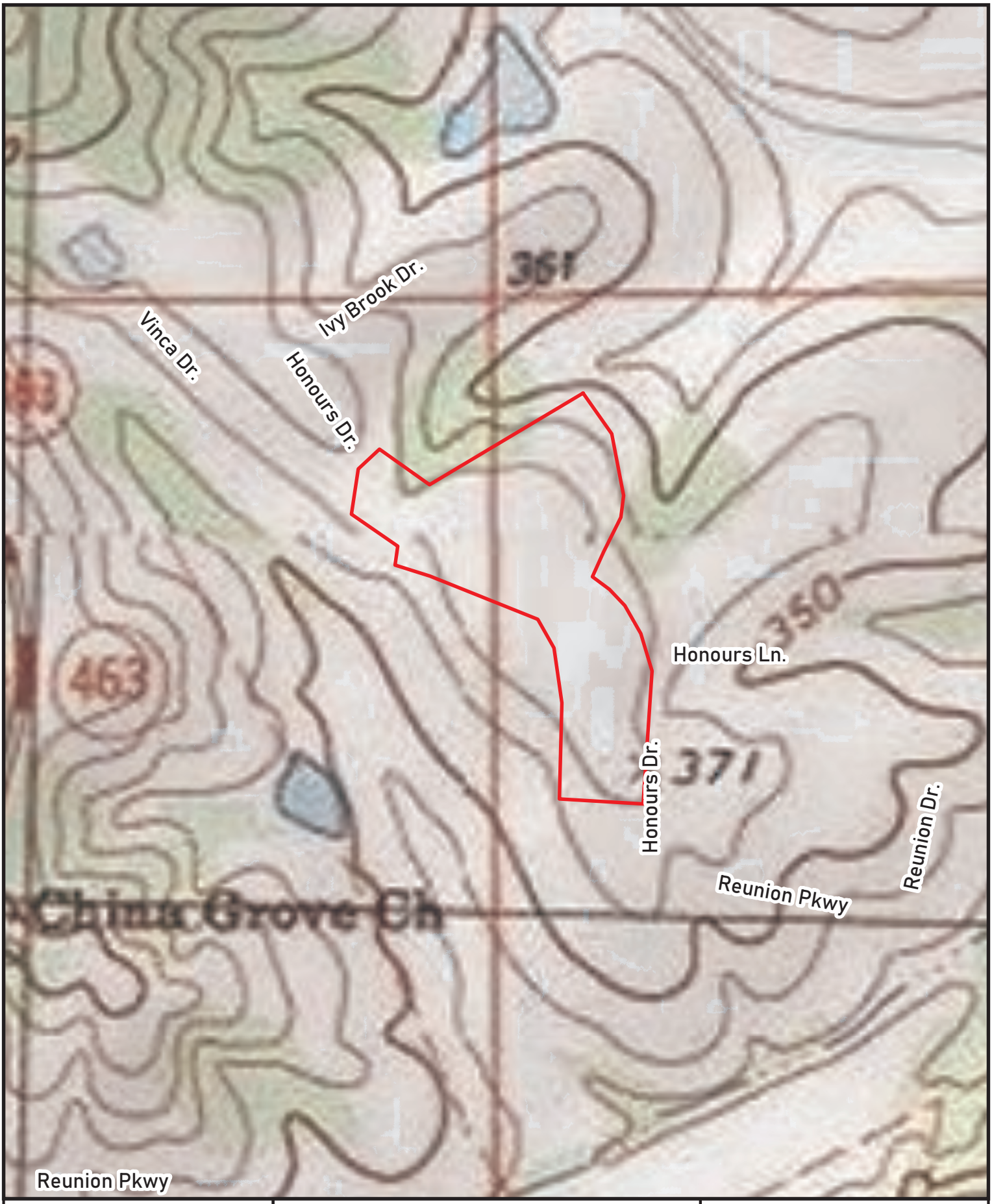
0 210 420 Feet

NAD 1983 State Plane Mississippi West FIPS 2302 Feet

CP 01- N:1090612.133' E:2347312.198' Elev.:340.583'

Date Created: 1/24/2023

Created by: HS



MENDROP

OVERBROOK II
AT REUNION
Section 34 & 35, Township 8N, Range 1E
Madison County, Mississippi
Aerial Map

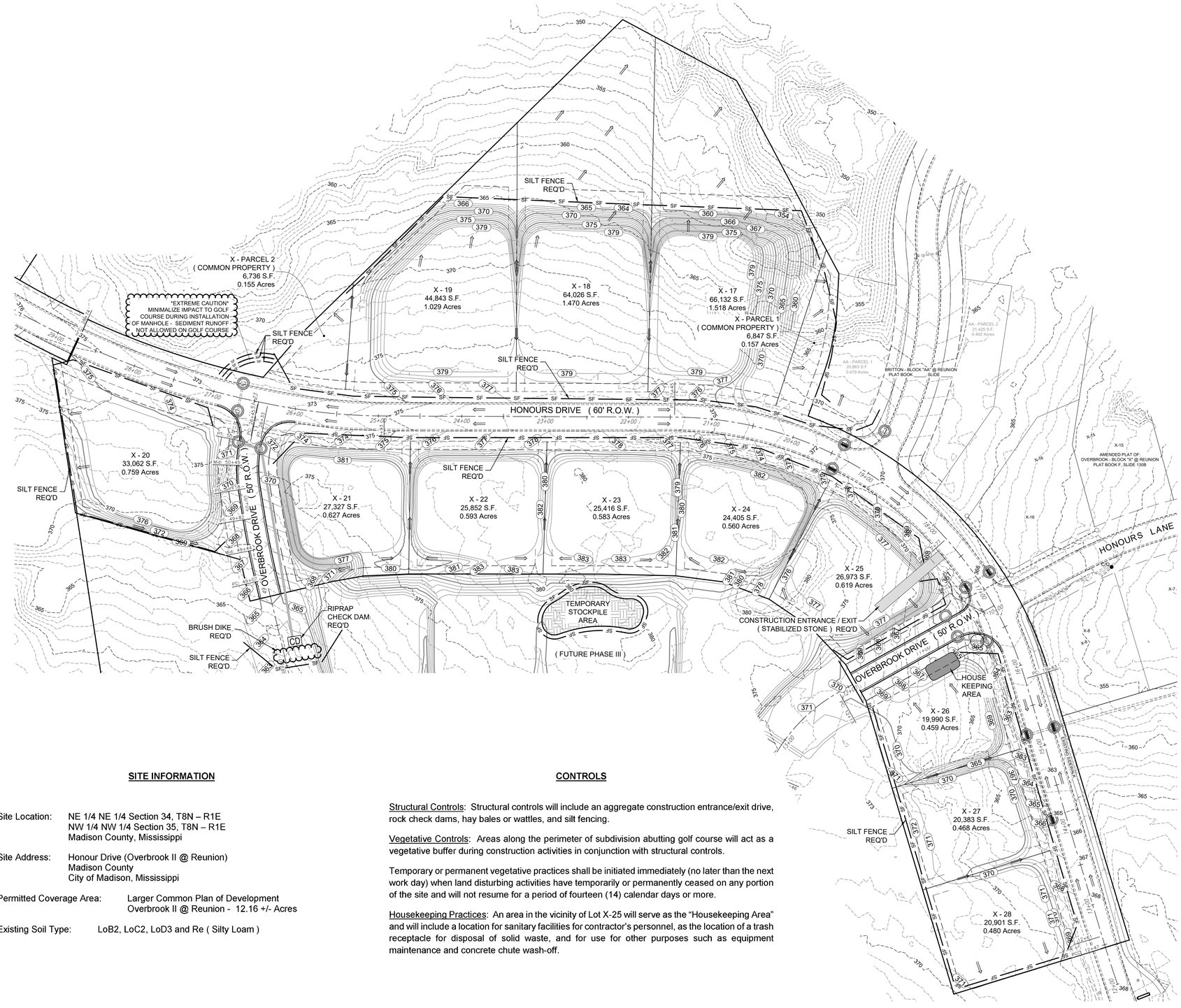
0 210 420 Feet

NAD 1983 State Plane Mississippi West FIPS 2302 Feet

CP 01- N:1090612.133' E:2347312.198' Elev.:340.583'

Date Created: 1/24/2023

Created by: HS



IMPLEMENTATION SEQUENCE

INITIAL

1. Install Construction Entrance/Exit Drive in the vicinity of Lot X-25 abutting Honour Drive with 6" minimum coarse aggregate.
2. Install silt fence in designated areas.
3. Install rip rap check dams at downstream end of new storm pipe locations and in designated areas as shown.

INTERMEDIATE

4. Clear and grub designated areas. Stockpile stripping and excess suitable excavated materials in separate areas. Install silt fencing along downhill sides of stockpile areas.
5. Begin overall grading operations. Rough grade street subgrade per typical street section.
6. Install storm drainage pipes, curb inlets and other underground utilities.
7. In advance of final roadway grading, remove obstructions and have existing utilities relocated as necessary. Construct curb and gutter in designated areas, and install roadway asphalt base course.
8. Complete construction of curb inlets, junction boxes and drainage swales in designated areas. Install sediment barriers around each inlet.
9. Restore disturbed areas along trenches and behind curbs with stripping material. Plant temporary grass and mulch all disturbed areas.
10. Clean and maintain Rock Check Dams, Silt Fences and Inlet Barriers as needed through Intermediate Phase activities.
11. Re-position rip rap stone from temporary Check Dams to permanent Outlet Protection at each upstream and downstream ends of storm pipe flared end sections.

FINAL

12. Remove sediment build-up at silt fences and other sediment barriers and place in Stock Pile Area for future use behind curbs, re-shape grades, plant temporary grass and mulch. Maintain silt fence along low side of stockpile area.
13. After Site is stabilized, remove all temporary measures and vegetate any resulting disturbed areas.

MAINTENANCE PLAN

1. Inspection of all receiving streams (if feasible), outfall, erosion and sediment controls and any other SWPPP requirements shall be performed at least weekly for a minimum of four inspections per month and after a rainfall event that produces a discharge. Make needed repairs within 24 hours.
2. Remove build-up at all sediment barriers and silt fences when accumulated sediment reaches one-third to one-half of barrier height.
3. Re-dress aggregate material in construction drive as needed to maintain effective measure.

BEST MANAGEMENT PRACTICES LEGEND

HK	HOUSEKEEPING		SEDIMENT BARRIER
VB	VEGETATIVE BUFFER		INLET PROTECTION
SF	SILT FENCE	CD	ROCK FILTER DAM
TSB	TEMPORARY SEDIMENT BASIN	PS	PERMANENT SEEDING

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

PRELIMINARY
FOR REVIEW ONLY

SITE INFORMATION

1. Site Location: NE 1/4 NE 1/4 Section 34, T8N – R1E
   NW 1/4 NW 1/4 Section 35, T8N – R1E
   Madison County, Mississippi
2. Site Address: Honour Drive (Overbrook II @ Reunion)
   Madison County
   City of Madison, Mississippi
3. Permitted Coverage Area: Larger Common Plan of Development
   Overbrook II @ Reunion - 12.16 +/- Acres
4. Existing Soil Type: LoB2, LoC2, LoD3 and Re (Silty Loam)

CONTROLS

Structural Controls: Structural controls will include an aggregate construction entrance/exit drive, rock check dams, hay bales or wattles, and silt fencing.

Vegetative Controls: Areas along the perimeter of subdivision abutting golf course will act as a vegetative buffer during construction activities in conjunction with structural controls.

Temporary or permanent vegetative practices shall be initiated immediately (no later than the next work day) when land disturbing activities have temporarily or permanently ceased on any portion of the site and will not resume for a period of fourteen (14) calendar days or more.

Housekeeping Practices: An area in the vicinity of Lot X-25 will serve as the "Housekeeping Area" and will include a location for sanitary facilities for contractor's personnel, as the location of a trash receptacle for disposal of solid waste, and for use for other purposes such as equipment maintenance and concrete chute wash-off.

REVISIONS			
NO.	DATE	DESCRIPTION	BY

OVERBROOK II @ REUNION
MADISON COUNTY, MISSISSIPPI

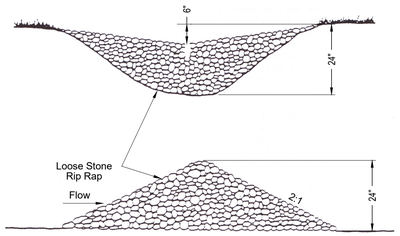
EROSION CONTROL PLAN

PATH: I:\Land Projects\C-857-02-21\CADD Files\DWG\C-857-02-21 (CURRENT).dwg

MENDROP
ENGINEERING RESOURCES
854 WILSON DRIVE
SUITE A
RIDGELAND, MS 39157
TEL (601) 899-5158
FAX (601) 899-5110

DRAWN BY:	A. PUGH
CHECK BY:	B. MENDROP
SCALE:	1" = 60'
DATE:	OCTOBER 2022
PROJECT NO.:	C-857-02-21

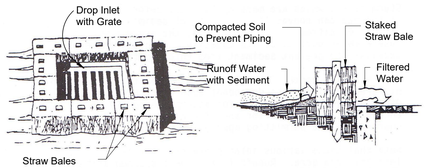
SHEET NO.
3.0



RIP RAP CHECK DAM

NOT TO SCALE
TYPICAL

Note: Check dam shall have debris removed once one-half (1/2) the barrier is covered.



SPECIFIC APPLICATION

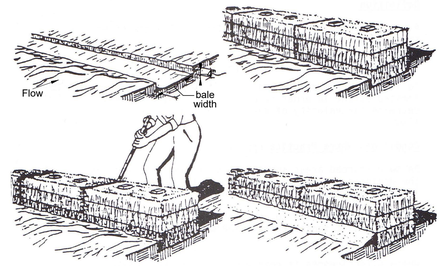
This method of inlet protection is applicable where the inlet drains a relatively flat area (slopes no greater than 5 percent) where sheet or overland flows (not exceeding 0.5 cfs) are typical. The method shall not apply to inlets receiving concentrated flows, such as in street or highway medians.

INLET

NOT TO SCALE
TYPICAL

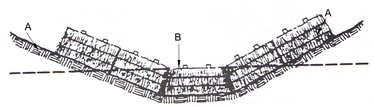
Note: Inlet sediment barrier shall have debris removed once one-half (1/2) the barrier is covered.

1. Excavate the trench.
2. Place and stake straw bales.



3. Wedge loose straw between bales.
4. Backfill and compact the excavated soil.

CONSTRUCTION OF A STRAW BALE BARRIER

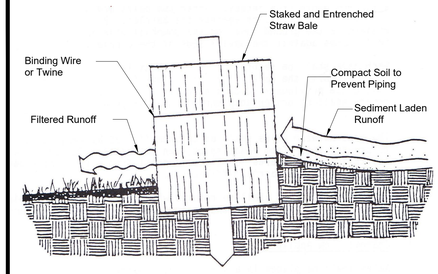


Points A should be higher than point B

HAYBALE BARRIER IN DRAINAGE WAY

NOT TO SCALE
TYPICAL

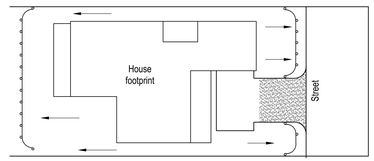
Note: Haybale barrier shall have debris removed once one-half (1/2) the barrier is covered.

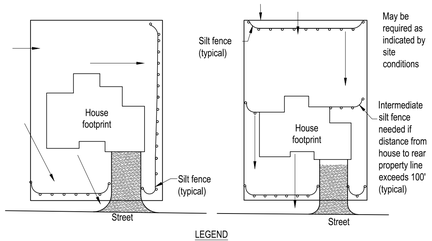


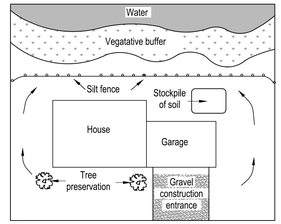
STAKED HAYBALE

NOT TO SCALE
TYPICAL

Note: Haybale barrier shall have debris removed once one-half (1/2) the barrier is covered.





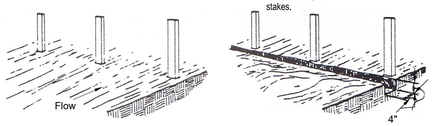


All disturbed areas will be temporarily seeded with rye grass. After final grade has been reached, all disturbed areas will be sodded with bermuda grass.

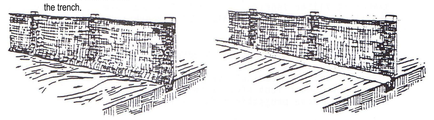
LOT EROSION AND SEDIMENT CONTROL PLANS

NOT TO SCALE
TYPICAL

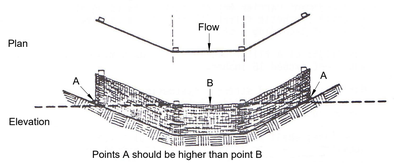
1. Set the stakes.
2. Excavate a 4"x4" trench upslope along the line of stakes.



3. Staple filter material to stakes and extend it into the trench.
4. Backfill and compact the excavated soil.



CONSTRUCTION OF A FILTER BARRIER

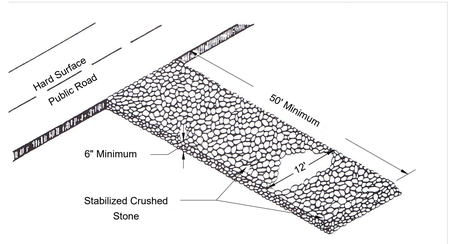


Points A should be higher than point B

FILTER BARRIER IN DRAINAGE WAY

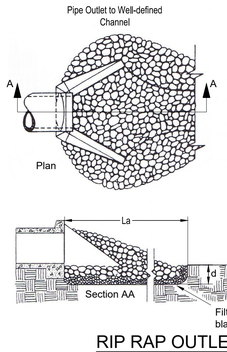
NOT TO SCALE
TYPICAL

Note: Filter barrier shall have debris removed once one-half (1/2) the barrier is covered.



CONSTRUCTION ENTRANCE / EXIT DRIVE

NOT TO SCALE
TYPICAL



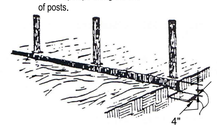
Notes

1. L_a is the length of the RIP RAP apron.
2. d=1.5 times the maximum stone diameter but not less than 6".
3. In a well-defined channel, extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth or to the top of the bank, whichever is less.
4. A filter blanket or filter fabric should be installed between the RIP RAP and soil foundation.

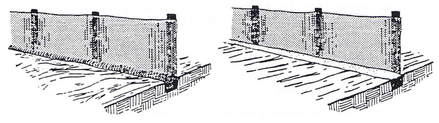
RIP RAP OUTLET PROTECTION

NOT TO SCALE
TYPICAL

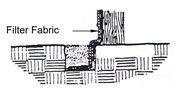
1. Set posts and excavate a 4"x4" trench upslope along the line of posts.



2. Attach the filter fabric to posts and extend it into the trench.
3. Backfill and compact the excavates soil.



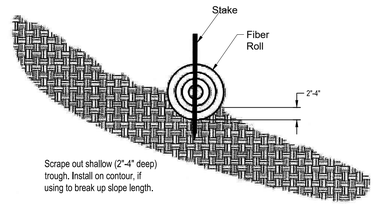
Extension of fabric
into the trench.



SILT FENCE

NOT TO SCALE
TYPICAL

Note: Silt fence shall have debris removed once one-half (1/2) the barrier is covered.



STAKED FIBER ROLL

NOT TO SCALE
TYPICAL

REVISIONS			
NO.	DATE	DESCRIPTION	BY

OVERBROOK II @ REUNION
MADISON COUNTY, MISSISSIPPI

STORM WATER POLLUTION
PREVENTION PLAN DETAILS

PATH: I:\Land Projects\C-857-02-21\CADD Files\DWG\C-857-02-21 (CURRENT).dwg

MENDROP
ENGINEERING RESOURCES
854 WILSON DRIVE
SUITE A
RIDGELAND, MS 39157
TEL (601) 899-5158
FAX (601) 899-5110

DRAWN BY: A. PUGH	SHEET NO.
CHECK BY: B. MENDROP	3.1
SCALE: NONE	
DATE: OCTOBER 2022	
PROJECT NO.: C-857-02-21	

APPENDIX

MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ)
Large Construction Storm Water General Permit
NPDES Permit MSR10

LARGE CONSTRUCTION FORMS PACKAGE

These standard forms are used to apply for permit coverage under the Large Construction Storm Water General Permit and for submittals and record keeping required by permit conditions after coverage has been granted. The forms are on our website at www.deq.state.ms.us/MDEQ.nsf/page/epd_epdgeneral. Required information can be completed on screen, printed and signed.

Revised: 12/06/16

AI : 83251

Coverage Num: MSR108889

Rec'd via email: 01/31/2023

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**

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

O.C

MSR10 8 8 8 9

(NUMBER TO BE ASSIGNED BY STATE)

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

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: Keith D. Kent

OWNER COMPANY LEGAL NAME:

OWNER STREET OR P.O. BOX: 105 Runion Blvd.

OWNER CITY: Madison **STATE:** MS **ZIP:** 39110

OWNER PHONE #: (601) 605-9797 ext. 1 **OWNER EMAIL:**

PRIME CONTRACTOR CONTACT INFORMATION

PRIME CONTRACTOR CONTACT PERSON:

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: Reunion

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: Honours Dr.

CITY: Madison STATE: MS COUNTY: Madison ZIP: 39110

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

LATITUDE: 90 **degrees** 10 **minutes** 27 **seconds** **LONGITUDE:** 32 **degrees** 29 **minutes** 58 **seconds**

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

TOTAL ACREAGE THAT WILL BE DISTURBED [1]: +/- 12.16

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: 2023-05-01 YYYY-MM-DD

ESTIMATED CONSTRUCTION PROJECT END DATE: 2024-05-01 YYYY-MM-DD

DESCRIPTION OF CONSTRUCTION ACTIVITY: addition to the neighborhood

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED: neighborhood

SIC Code ___ ___ ___ ___ **NAICS Code** __ __ __ __ __ __

NEAREST NAMED RECEIVING STREAM: Bear 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☑

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):

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? YES ☐ NO ☑

[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:** _____

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 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 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)

1.31.2023
Date Signed

Keith D. Kent
Printed Name[1]

Vice President - Reservoir
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

PRIME CONTRACTOR CERTIFICATION

LARGE CONSTRUCTION GENERAL PERMIT

Coverage No. MSR10 __ __ __ __ County _____

(Fill in your Certificate of Coverage Number and County)

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

By completing and submitting this form to MDEQ, the prime contractor is certifying that (1) they have operational control over the erosion and sediment control specifications (including the ability to make modifications to such specifications) or (2) they have day-to-day operational control of those activities at the site necessary to ensure compliance with the SWPPP and applicable permit conditions.

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 permit. Notwithstanding any permit condition to the contrary, the coverage recipient and any person who causes pollution of waters of the state or places waste in a location where they are likely to cause pollution of any waters of the state shall remain responsible under applicable federal and state laws and regulations and applicable permits.

PRIME CONTRACTOR INFORMATION

PRIME CONTRACTOR CONTACT PERSON: _____PHONE NUMBER: (___)_____

PRIME CONTRACTOR COMPANY: _____

PRIME CONTRACTOR STREET (P.O. BOX): _____

PRIME CONTRACTOR CITY: _____ STATE: _____ ZIP: _____

E-MAIL ADDRESS: _____

OWNER INFORMATION

OWNER CONTACT PERSON: _____ PHONE NUMBER: (____)_____

OWNER COMPANY NAME: _____

PROJECT INFORMATION

PROJECT NAME: _____

DESCRIPTION OF CONSTRUCTION ACTIVITY: _____

_____

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

STREET: _____

CITY: _____ COUNTY: _____

I certify that I am the prime contractor for this project and will comply with all the requirements in the above referenced general NPDES permit. I further 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.

_____ _____

Prime Contractor Signature[1] **Date Signed**

_____ _____

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.**

This Prime Contractors Certification form shall be submitted to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Revised: 10/25/16

Keep a Copy at the Construction Site and Also Submit this Page to:
Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225-2261

Registration Form for Residential Lot Coverage

under Mississippi's Large Construction Storm Water General Permit

INSTRUCTIONS

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Coverage recipients for residential subdivision construction that do not retain responsibility for permit compliance for individual lots are to furnish this Registration to buyers of individual lots at the time of purchase. In addition, the attached Requirements for Individual Lots in Residential Subdivisions, the Site Inspection and Certification Form and the Large Construction Storm Water General Permit shall also be given to buyers of individual lots at the time of purchase. This form is providing notification to buyers of lots in residential developments, that being part of a "larger common plan of development or sale," coverage is required under Mississippi's Large Construction Storm Water General Permit. To comply with the permit, **the Registration Form must be submitted to MDEQ** at the address listed above and a Storm Water Pollution Prevention Plan (SWPPP) must be developed and implemented to reduce pollutants in storm water discharges during construction activity. **The SWPPP is not required to be submitted to MDEQ**. A copy of the SWPPP and Registration Form must be kept at the construction site or locally available (i.e., able to be produced within an hour of being requested by a state or local inspector). See the following attachments for information on SWPPP development. In addition, **a copy of the completed Registration Form(s) must be retained by the developer and submitted to the MDEQ when requesting termination of permit coverage**. If the buyer or homebuilder sells the lot before a house is built, they must provide this form to the new owner. All questions must be answered. Answer "NA" if the question is not applicable. For further information, contact MDEQ at 601/961-5171 or access our website address: www.deq.state.ms.us/MDEQ.nsf/page/epd_epdgeneral.

ORGINAL COVERAGE RECIPIENT NAME: _____

COMPANY NAME: _____

STREET OR P.O. BOX: _____

CITY: **STATE:** **ZIP:** _____

PHONE # (INCLUDE AREA CODE): _____

BUYER / HOMEBUILDER: _____

COMPANY NAME (IF APPROPRIATE): _____

STREET OR P.O. BOX: _____

CITY: **STATE:** **ZIP:** _____

BUYER PHONE # (INCLUDE AREA CODE): _____

RESIDENTIAL SUBDIVISON NAME: _____

LARGE CONSTRUCTION STORM WATER PERMIT COVERAGE NUMBER: MSR10: 8 9 605-9797 ____

LOT NUMBER(s) (attach an additional sheet if necessary): _____ **LOT SIZE(s):** _____

PHYSICAL SITE ADDRESS (IF NOT AVAILABLE INDICATE THE NEAREST NAMED ROAD):

STREET: _____

CITY: _____ **COUNTY:** _____ **ZIP:** _____

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 persons 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. As a buyer / homebuilder, I further certify that I have read and understand the terms and conditions of Mississippi's Large Construction Storm Water General Permit and that I am responsible for installing and maintaining the appropriate pollution control measures for the purchased lot(s) identified.

_____ +/- 12.16
Original Coverage Recipient Signature[1] **Date Signed**

_____ _____
Printed Name **Title**

_____ _____
Buyer / Homebuilder Signature[1] **Date Signed**

_____ _____
Printed Name **Title**

[1]**This application shall be signed according to ACT11, T-7 of the Large Construction General Permit.**

Revised: 12/12/16

REQUIREMENTS FOR LOTS IN RESIDENTIAL SUBDIVISION WHICH ARE COVERED BY THE LARGE CONSTRUCTION STORM WATER GENERAL PERMIT

As a homebuilder on a lot that is part of a regulated subdivision, you are also regulated under the State's storm water regulations and are required to take steps to keep soil and sediment from leaving the lot. When rain falls on exposed soil it can wash away valuable topsoil. It also carries sediment, nutrients and other pollutants into streets, gutters and ditches, where it then travels to lakes, rivers, streams or wetlands. Polluted runoff can cause excessive growth of aquatic weeds and algae and reduce recreational opportunities such as swimming and fishing. Sediment laden runoff can also destroy fish habitat reducing productive fishing opportunities. In addition, sediment-laden runoff can also clog pipes, ditches, streams and basins resulting in increased flooding and maintenance cost. Therefore, the homebuilder is required to minimize off-site damage from soil erosion, sediment leaving the construction site, and poor "housekeeping" practices. This requirement must be accomplished by developing and implementing a Storm Water Pollution Prevention Plan (SWPPP). Some examples of individual lot SWPPPs are attached for your convenience. Sketch the controls on a copy of your site plan. Narrative notes on the site plan may also be used in addition to the erosion control symbols.

In developing and implementing the SWPPP, controls must be used from each control group (vegetative, structural, housekeeping) to prevent erosion and sediment and other pollutants from leaving the site. Commonly used controls include:

Vegetative Controls

Temporary vegetation includes annual grasses that sprout quickly such as annual rye, browntop millet, oats, and winter wheat. These grow quickly with little care and can protect the soil from rainfall and act as a filter. They will not provide permanent cover. Permanent cover must be established as indicated below. When a disturbed area will be left undisturbed for fourteen (14) days or more, the appropriate temporary or permanent vegetative practices shall be implemented immediately.

Mulching is the placement of hay grass, woodchips, straw, or synthetic material on the soil to provide temporary cover to protect the soil from rain. Mulching may be the only option during the winter when seeding or sodding is not possible. Mulch must stay in place to be effective. Netting, stakes or chemical binders are used to anchor some types of mulch. Be sure to reinstall washed-out mulch and anchor if necessary until permanent cover is established.

Permanent stabilization is the establishment of a permanent vegetative cover on disturbed areas using either sod, perennial seed, trees or shrubs. When a disturbed area will be left undisturbed for fourteen (14) days or more, the appropriate temporary or permanent vegetative practices shall be implemented immediately. Silt fences, and other temporary measures must be removed following permanent stabilization.

Vegetative buffer zones are undisturbed or planted vegetated areas that are between construction activities and water bodies.

Structural Controls

Silt fences are temporary sediment barriers made of filter fabric buried at the bottom, stretched, and supported by stakes. The silt fence slows runoff and allows it to puddle or pond, so soil and sediment can settle out before leaving the site. The bottom eight to twelve inches of fence must either be sliced in or buried in a trench about four to six inches deep by four to six inches wide. **Silt fences that are not buried are improperly installed. They have no useful function, are a waste of money, and may result in enforcement action**. Stakes must be on the downstream side of the fence and spaced about 3 feet apart. Silt fence must not be installed across streams, ditches, waterways, or other concentrated flow areas. Place fences on the contour or perpendicular to the slope of the hill so that water and sediment will pond behind the fence. **Turn ends uphill** to prevent water going around the end. Install on the downslope, downhill, downstream, or low side of your lot. Keep the fence/barrier in place until grass is established.

Slope drains are piping or lined channels that carry storm water downslope without erosion. A good example would be a downspout extender. Extenders may be used to protect temporarily stabilized areas from roof runoff. Extenders can direct water from roof gutters to paved or grassed areas. Remove extenders following permanent stabilization.

Construction entrance/exits are stone stabilized site entrances which reduce sediment tracked onto public roads. Apply gravel or crushed rock to the driveway area and restrict traffic to this one route. Use 3 to 6 inch gravel over a geotextile fabric. At the end of each day sweep or scrape up any soil tracked onto the street. Limit "standard" vehicle access (including workers' vehicles) to only streets and roads, keep vehicles off of future yard areas; limit tracking of mud onto streets by requiring any required vehicles to use designated access drives. Streets are conduits for storm water, it is important to keep mud and sediment off the streets.

Stockpiles of sand or soil should be covered with plastic or tarps at the end of each workday, or surrounded with silt fence or haybales. Do not locate a stockpile near a street, storm drain inlet, or ditch.

Erosion control blankets or mats are machine-produced mats of straw or other fibers held together with netting that provide temporary or permanent stabilization in critical areas, such as slopes or channels, so that vegetation may be established.

Storm Drain Inlets on the lot must be protected by surrounding or covering with a filter material until final stabilization has been achieved.

Additional Controls: The above controls are the more common practices used at small construction sites. There are a number of other controls, techniques and manufactured product available. A few examples include hydro seeding, diversion berms, silt dikes and fiber logs. Even something as simple as a tarp or plastic may provide temporary cover for small exposed areas. You may wish to contact an erosion and sediment control specialist, local building official, or MDEQ for further information. In addition, MDEQ has several guidance manuals that may be of assistance and the internet has abundant guidance on construction BMPs.

Housekeeping Controls: Pollutants that may enter storm water from construction sites because of poor housekeeping include oils, grease, paints, gasoline, solvents, litter, debris, and sanitary waste. Good housekeeping practices include:

- Frequent cleaning of trash and debris, providing waste receptacles at convenient locations and providing regular collection of waste;
- Directing concrete trucks to the subdivision's designated wash-off area(s) or back to the Ready-Mix facility;
- Providing protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials; and
- Providing adequately maintained sanitary facilities.

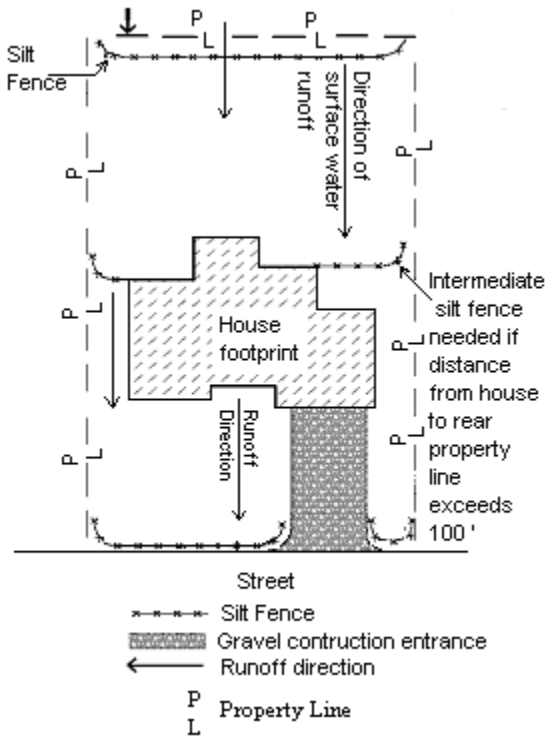
In addition, you should be aware that State air regulations prohibit the open burning of residential solid waste.

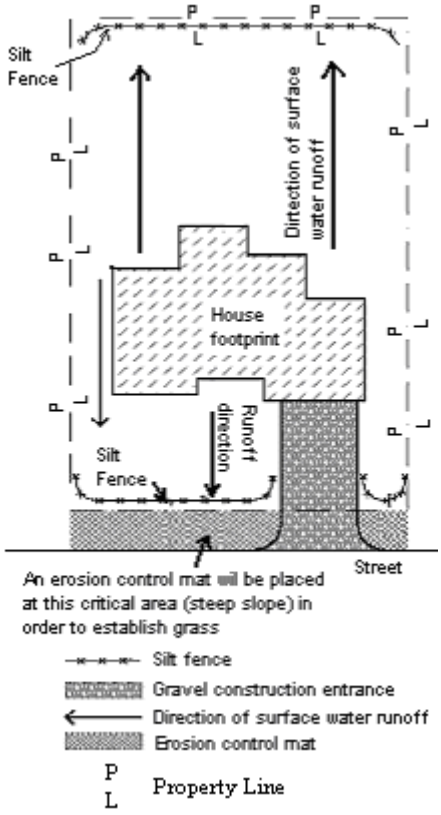
Inspection Requirements. Homebuilders shall inspect all erosion controls as often as is necessary, but no less than weekly, to ensure that appropriate erosion and sediment controls have been properly constructed and maintained to prevent erosion and sediment from leaving the site and determine if additional or alternative control measures are required. The inspection results shall be recorded on the Site Inspection and Certification Form contained in the Large Construction Forms Package. MDEQ strongly recommends that homebuilders perform "walk through" inspections daily. It is a responsibility of the homebuilder to install additional and/or alternative erosion and sediment controls when existing controls prove to be ineffective in preventing sediment from leaving the site.

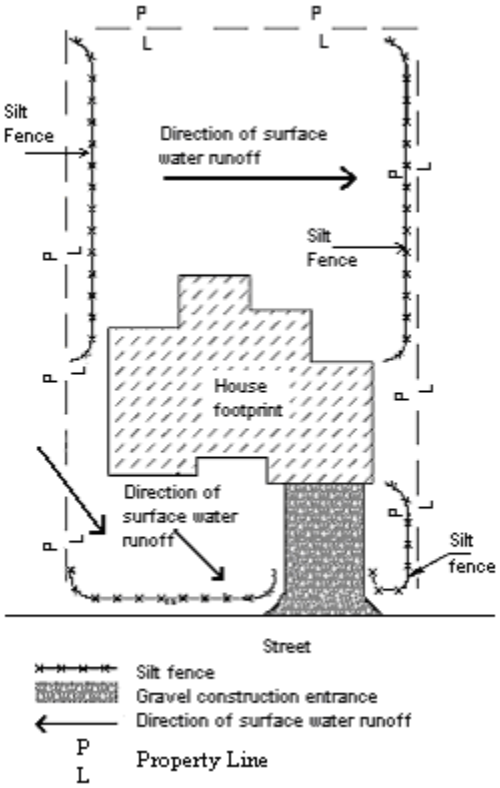
Retention of Records. All records, reports, forms and information resulting from activities required by this permit shall be retained for a period of at least three years from the date of the document origin.

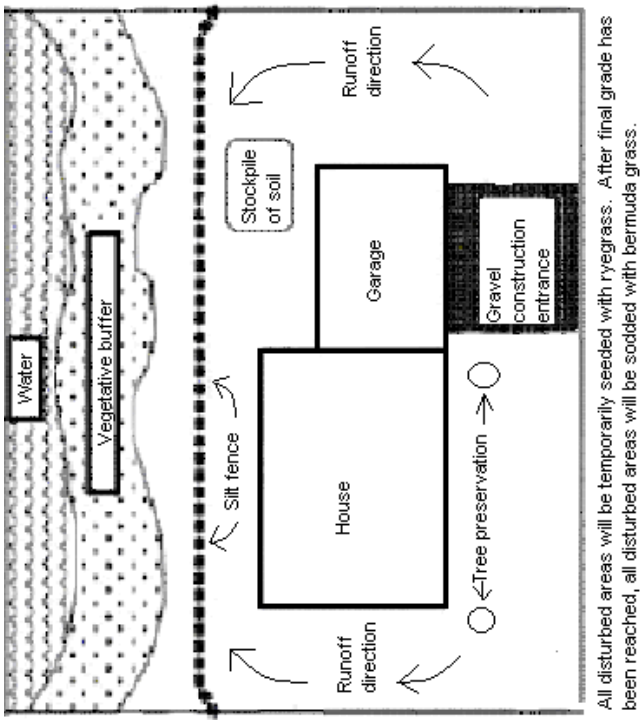
Duty to Comply. Lot owners must comply with the applicable permit conditions. See Activities 3, 5, 6, 7, 10 and 11 in the Large Construction Storm Water General Permit for applicable conditions. Any noncompliance with the applicable permit conditions and aforementioned conditions including sediment leaving the lot constitutes a violation of the Mississippi Water Pollution Control Law and is grounds for enforcement action. It shall not be an acceptable defense that controls were not installed because subsequent activities would require their replacement or cause their destruction.

EXAMPLE INDIVIDUAL LOT EROSION AND SEDIMENT CONTROL PLANS









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: _____

PROJECT NAME: _____

PROJECT STREET ADDRESS: _____

PROJECT CITY: _____ **PROJECT COUNTY:** _____

OWNER/PRIME CONTRACTOR MAILING ADDRESS: _____

MAILING CITY: _____ **STATE:** _____ **ZIP:** _____

CONTACT PERSON: _____ **CONTACT PHONE NUMBER:** (_____)_____

EMAIL ADDRESS: _____

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

_____ _____
Printed Name Title

MAJOR MODIFICATION FORM
FOR LARGE CONSTRUCTION GENERAL PERMIT
Coverage No. MSR10 __ __ __ __ County _____

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Coverage recipients shall notify the Mississippi Department of Environmental Quality at least 30 days in advance of the following activities (check all that apply). This form should be submitted with a modified Storm Water Pollution Prevention Plan (SWPPP), updated USGS topographic map, Corps of Engineers Section 404 documentation and wastewater collection and treatment information, as appropriate.

☐ **SWPPP details have been developed and are ready for MDEQ review for subsequent phases of an existing, covered project.**

☐ **"Footprint" identified in the original LCNOI is proposed to be enlarged.**

This form must be signed by the current coverage recipient under Mississippi's Large Construction General Permit. A different developer of new phases of existing subdivisions must apply for separate permit coverage through the submittal of a new complete LCNOI package. Coverage recipients are authorized to discharge storm water associated with proposed expansions of existing subdivisions or subsequent phases, under the conditions of the General Permit, only upon receipt of written notification of approval by MDEQ. All other modifications, such as changes of erosion and sediment controls used, must be in accordance with ACT6, S-1 (6) and S-2 (7) of the General Permit.

ALL INFORMATION MUST BE COMPLETED (indicate "N/A" where not applicable)

COVERAGE RECIPIENT INFORMATION

COVERAGE RECIPIENT CONTACT NAME: _____ TEL # (_____) _____

COMPANY NAME: _____

STREET OR P.O. BOX: _____

CITY: _____ STATE: _____ ZIP: _____ E-MAIL: _____

PROJECT INFORMATION

PROJECT NAME: _____

CITY: _____

ADDITIONAL ACREAGE TO BE DISTURBED: _____ TOTAL PROJECT ACREAGE: _____

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 (must be signed by coverage recipient) Date

_____ _____
Printed Name Title

Please submit this form to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Revised: 12/12/16

Environmental Permits for Industrial Facilities
Request for Transfer of Permit, General Permit Coverage and/or Name Change

Instructions: For Ownership Change-Complete all Items on Page 1 (except Item VIII) and Page 2 (reverse side).
For Name Change Only-Complete Items I, II, V, VI, VII, VIII, and Page 2 (reverse side).
Note-This form should be submitted to MDEQ when a transferal date is finalized but prior to the actual transfer.

Item I.

Facility Name: _____

Location: (Do Not Use P.O. Box)

Street: _____

City: _____ State: MS Zip: _____

County: _____

Telephone: (_____)_____

Item II.

Responsible official after transfer or name change:

Name: _____

Title: _____

Mailing Address:
Street/P.O. Box: _____

City: _____ State: _____ Zip: _____

Telephone (_____)_____

Item III.

Previous Permittee[1]: _____

Mailing Address:

Street/P.O. Box:_____

City: _____ State: _____ Zip: _____

Telephone: (_____)_____

Item IV.

New Permittee[1]: _____

Mailing Address:

Street/P.O. Box:_____

City: _____ State: _____ Zip: _____

Telephone: (_____)_____

Item V.

Industrial Activity SIC Code: _____

Brief Description:

Item VI.

Will Facility Operations Change? Yes _____ No _____

If yes, the appropriate applications and permits may require modification prior to change.

Item VII.

Will Facility Name Change? Yes_____ No_____

If Yes, Provide New Name for Permit Coverage.

New Name:_____

Item VIII.

Signature for Name Change

Print Name: _____

Authorized Signature[2]: _____

Title: _____ Date: _____

Item IX.

We the undersigned request transfer of permit(s) and/or permit coverage(s) listed on the backside of this form.

From:_____

To:_____ Acquisition Date:_____

By signature below, the recipient certifies that: 1) they are aware of the requirements of the permit(s), 2) the applicant can demonstrate to the Permit Board it has the financial resources and operational expertise and 3) agrees to accept responsibility and liability for the permit(s) listed on the back of this document. By signature below, the previous permittee is requesting that the permit(s) and/or permit coverage(s) be transferred to the recipient. The transfer of the permit(s) or permit coverage(s) will be by written notification from the Office of Pollution Control (OPC). The OPC may require submittal of information regarding financial capability and past compliance history of the recipient.

_____ _____
Print New Permittee[1] Name Print Previous Permittee[1] Name

_____ _____
New Authorized Signature[2] Previous Authorized Signature[2]

_____ _____ _____ _____
Title Date Title Date

[1]A Permittee is a company or individual that has been issued an individual permit or coverage under a general permit.
[2]Authorized Signature must be owner or in the case of a corporation, a corporate officer as defined in Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2. and 11 Miss. Admin. Code Pt. 6, Ch. 1.

Mississippi Department of Environmental Quality/Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225
(601) 961-5171

Item X. Storm Water

(Check One)

☐ A Storm Water Pollution Prevention Plan (SWPPP) is not required for the site.

☐ The recipient certifies that they have received a copy of the Office of Pollution Control approved SWPPP from the original owner.

☐ The recipient is submitting a new SWPPP, which is attached to this form.

☐ A copy of the SWPPP cannot be obtained from the original owner.

Item XI. Hazardous Waste ID Number

EPA ID No. ______________________________

(Check One)

☐ An EPA Hazardous Waste ID Number is not required for the site.

☐ The site's EPA ID Number is listed above and a Notification of Regulated Waste Activity Form is attached.

Item XII. Permit(s) and/or Coverage(s) to be Transferred

Permit Type: ______________________________

Permit/Coverage No.: ______________________________

Permit Issuance Date: ______________________________

Date of General Permit Coverage: __________________

Permit Expiration Date: __________________________

Permit Type: ______________________________

Permit/Coverage No.: ______________________________

Permit Issuance Date: ______________________________

Date of General Permit Coverage: __________________

Permit Expiration Date: __________________________

Permit Type: ______________________________

Permit/Coverage No.: ______________________________

Permit Issuance Date: ______________________________

Date of General Permit Coverage: __________________

Permit Expiration Date: __________________________

Permit Type: ______________________________

Permit/Coverage No.: ______________________________

Permit Issuance Date: ______________________________

Date of General Permit Coverage: __________________

Permit Expiration Date: __________________________

Permit Type: ______________________________

Permit/Coverage No.: ______________________________

Permit Issuance Date: ______________________________

Date of General Permit Coverage: __________________

Permit Expiration Date: __________________________

Permit Type: ______________________________

Permit/Coverage No.: ______________________________

Permit Issuance Date: ______________________________

Date of General Permit Coverage: __________________

Permit Expiration Date: __________________________

Permit Type: ______________________________

Permit/Coverage No.: ______________________________

Permit Issuance Date: ______________________________

Date of General Permit Coverage: __________________

Permit Expiration Date: __________________________

OTHER INFORMATION:

INSPECTION SUSPENSION FORM

UNDER LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT MSR10

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Coverage recipients under Mississippi's Large Construction Storm Water General Permit may temporarily suspend required weekly inspections of erosion and sediment controls and monthly record keeping by submission of this form. Inspections may be suspended only when land disturbing activities have ceased, no further land disturbing activities are planned for a period of at least six (6) months, the site is stable with no active erosion, and vegetative cover has been established (see ACT9, S-1). The coverage recipient is responsible for all permit conditions during the suspension period and nothing in this condition shall limit the rights of MDEQ to take enforcement or other actions against the coverage recipient. Once land disturbing activities resume MDEQ must be notified and all inspections and record keeping required by the permit must also resume. Color photographs, representative of the construction site, must be submitted with this inspection form.

COVERAGE RECIPIENT INFORMATION

COVERAGE RECIPIENT CONTACT PERSON: _____

COMPANY NAME: _____

STREET OR P.O. BOX: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE # (INCLUDE AREA CODE): _____ E-MAIL: _____

PROJECT INFORMATION

CONSTRUCTION STORM WATER GENERAL PERMIT COVERAGE NUMBER: MSR10 __ __ __ __

PROJECT NAME: _____

CITY: _____ COUNTY: _____

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**. I further certify that: land disturbing activities have ceased, no further land disturbing activities are planned for a period of at least six (6) months, the site is stable with no active erosion, and vegetative cover has been established**.

_____ _____

Signature (must be signed by coverage recipient) Date Signed

_____ _____

Printed Name Title

Please submit this form to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Revised: 12/10/2016

Request for Termination (RFT) of Coverage

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

LARGE CONSTRUCTION GENERAL PERMIT

Coverage No. MSR10 __ __ __ __ County _____

(Fill in your Certificate of Coverage Number and County)

This form must be submitted within thirty (30) days of achieving final stabilization (see ACT10, S-1 of general permit). Failure to submit this form is a violation of permit conditions.

The signatory of this form must be the owner or operator (prime contractor) who is the current coverage recipient (rather than the project manager or environmental consultant).

(Please Print or Type)

Project Name: _____

Physical Site Street Address (if not available, indicate nearest named road): _____

City: _____ **County:** _____ **Zip:** _____

Coverage Recipient Company Name: _____

Street Address / P.O. Box: _____

City: _____ **State:** _____ **Zip:** _____

Coverage Recipient Contact Name and Position: _____ **Tel. #:** (_____) _____

Has another owner(s) or operator(s) assumed control over all areas of the site that have not reached final stabilization?

RESIDENTIAL SUBDIVISIONS:

- ☐ **YES. A copy of the Registration Form for Residential Lot Coverage for each lot or out parcel that has been sold and a site map, indicating which lots have been sold, are attached.**
- ☐ **NO. Coverage may not be terminated until all areas have reached final stabilization.**

COMMERCIAL DEVELOPMENT:

- ☐ **YES. A copy of the site map, indicating which out-parcels have been sold, is attached.**
- ☐ **NO. Coverage may not be terminated until all areas have reached final stabilization.**

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 fines and imprisonment for knowing violations. I understand that by submitting this Request for Termination and receiving written confirmation, I will no longer be authorized to discharge storm water associated with construction activity under this general permit. Discharging pollutants associated with construction activity to waters of the State without proper permit coverage is a violation of state law. I also understand that the submittal of this Request for Termination does not release an owner or operator from liability for any violations of this permit or the Clean Water Act.

_____	_____	_____	_____
Authorized Name (Print)	Telephone	Signature	Date Signed

[1]This application shall be signed according to the General Permit, ACT11, T-7 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.

After signing please mail to: Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225