AI 80630

Received December 14, 2021 via email

MSR10 8 6 1 0 ____

(NUMBER TO BE ASSIGNED BY STATE)

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

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: Robert Lampton

OWNER COMPANY LEGAL NAME: The Refuge of Madison, LLC

OWNER STREET OR P.O. BOX: P.O. Box 1639

OWNER CITY: Jackson **STATE:** MS **ZIP:** 39215

OWNER PHONE #: (601) 209-4110 **OWNER EMAIL:** robert.lampton@ergon.com

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: The Refuge of Madison

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: Lake Cavalier Road

CITY: Ridgeland STATE: MS COUNTY: Madison ZIP: 39157

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

LATITUDE: 32 **degrees** 27 **minutes** 22 **seconds** **LONGITUDE:** 90 **degrees** 12 **minutes** 40 **seconds**

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

TOTAL ACREAGE THAT WILL BE DISTURBED [1]: 14 Acres

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

IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT: The Refuge of Madison
AND PERMIT COVERAGE NUMBER: MSR10_ _ _ _

ESTIMATED CONSTRUCTION PROJECT START DATE: 2022-01-01 (YYYY-MM-DD)

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

DESCRIPTION OF CONSTRUCTION ACTIVITY: Clearing, grubbing and grading.

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:
Recreational Pond

SIC Code 1 7 9 4 **NAICS Code** 2 3 8 9 1 0

NEAREST NAMED RECEIVING STREAM: Limekiln 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):
Silty Clay

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:

Madison 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.

Robert Lampton

Signature of Applicant[1] (owner or prime contractor)

12-10-21

Date Signed

Robert Lampton

Printed Name[1]

Manager / Owner

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

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)

McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS

TRANSMITTAL MEMORANDUM

To: Florance Bass

From: Ron McMaster, Jr., P.E., P.S.

Date: December 10, 2021

Subject LNCOI Submittal
The Refuge of Madison
Madison County, MS

Transmitted Via:

Mail: __X__

Hand Delivered: _____

Overnight Mail: _____

Email: _____

Pages w/Cover: _____

Fax Number: _____

Items Enclosed/Description

Please find attached the completed LCNOI application for the above referenced project for review. Please contact me at 601-605-1090, Ext.102 if you need any additional information or have any comments.

Sincerely,

Ron McMaster, Jr., P.E., P.S.

SUBJECT: **STORM WATER POLLUTION PREVENTION PLAN**
PROJECT NAME: **THE REFUGE OF MADISON**
PROJECT NUMBER: **M-2881**
COUNTY: **MADISON COUNTY, MS**

SITE INFORMATION

The 14.00 acre site is located in the NE ¼ of Section 17, T7N-R1E, Madison County, Mississippi,. The subject property is also referenced by Global Positioning System (GPS) N32.456111 – W90.211111. During the proposed construction of the site, 14.00 acres will be disturbed to some extent and will include the construction of a recreational pond. All acres are in medium erosion hazard due to soil type and slopes.

Site Description: before

The site is comprised of flat terrain with slopes generally from 1 to 2 percent. Most of the overland drainage can be considered sheet flow and predominately drains south to north.

Site Description: after

The site will include a recreational pond. All open areas will be grassed and stabilized before the project is finalized.

SEDIMENT AND EROSION CONTROL REQUIREMENTS

VEGETATIVE CONTROLS: All diversions will be grassed within seven calendar days. Permanent erosion controls (soil preparation, fertilizing, seeding, and mulching, sodding and matting, and riprap) will be placed accordingly as shown on the Storm Water Pollution Prevention Plan sheet. Any disturbed areas laid-up for over 7 days will be seeded (temporary) immediately. After final grading, all disturbed areas will be seeded immediately.

STRUCTURAL CONTROLS: The construction entrance/exit, temporary silt fence, and all other controls, as shown on the Storm Water Pollution Prevention Plan Sheet, will be installed prior to construction. Immediately following clearing and grubbing, additional silt fence and hay bales will be installed where necessary throughout the project. Other controls such as silt fence, hay bales, slope breaks, and diversions will also be utilized to prevent sediment runoff.

HOUSEKEEPING PRACTICES: The contractor is reminded of his responsibilities which include equipment maintenance and repair, concrete chute wash off, trash/debris, storage of chemicals and other toxic materials, and sanitary facilities. Storm water pollution prevention best management practice techniques are to be applied throughout the construction of this project, the cost of which is to be included in regular bid items.

IMPLEMENTATION SEQUENCE

The construction entrance/exit, temporary silt fence, and all other controls, as shown on the Storm Water Pollution Prevention Plan Sheet, will be installed prior to construction operations beginning. Immediately following clearing and grubbing, additional silt fence and hay bales will be installed where necessary throughout the project. Permanent erosion control measures should be placed as construction progresses and no later than 7 days after substantial completion of grade and drain operations.

MAINTENANCE PLAN

Check all disturbed areas, erosion and sediment controls weekly and after a rainfall event that produces a discharge. Make needed repairs within 24 hours. Sediment will be removed from behind the silt fence when it becomes one-third to one-half the height of the control. The silt fence will be replaced if necessary to maintain barrier. All removed sediment shall be properly disposed.

FINAL STABILIZATION

Following construction, all open areas will be permanently seeded/mulched/sodded. Landscaping operations using trees and shrubs will also be added to the site. Once a permanent vegetative cover is established on the site, all silt fence and temporary measures will be removed and coverage terminated.

SCALE: 1" - 1,000'
RIDGELAND QUAD

PROJECT

Lake

Roanna Lake

Ridley Hill Ch

BR 354

TEMPORARY EROSION CONTROL PRACTICES

- STORM DRAIN INLET PROTECTION (SILT FENCE, WATTLE)
- SILT FENCE
- PROTECTIVE FENCE
- EROSION CHECK (WATTLE)
- STONE FILTER RING
- CONSTRUCTION LIMITS

PERMANENT EROSION CONTROL PRACTICES

- RR — RIPRAP
- S — TEMPORARY AND PERMANENT SEEDING/SODDING
- WSF — WATTLE AND SILT FENCE

NOTES:

CONTRACTOR SHALL KEEP ALL EXISTING STREETS FREE AND CLEAN OF DEBRIS AND SEDIMENT DURING CONSTRUCTION.

FOLLOW PLANNING AND DESIGN MANUAL (DEQ) FOR STORMWATER MANAGEMENT.

ANY DISTURBED AREAS LAID-UP FOR OVER 7 DAYS WILL BE SEEDED (TEMPORARY) IMMEDIATELY. AFTER FINAL GRADING, ALL DISTURBED AREAS WILL BE SEEDED IMMEDIATELY.

Revisions				
#	Date	Nature	By	App'd.

Project No. M-2881	Designed By R.C.M.
Date 11-13-21	Drawn By R.C.M.
Scale SEE ABOVE	Checked By R.C.M.

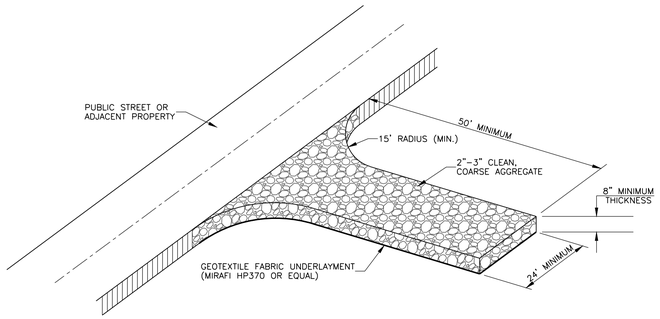
THE REFUGE OF MADISON
MADISON COUNTY, MISSISSIPPI

McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090

RONALD C. McMASTER, JR. LICENSED PROFESSIONAL ENGINEER AND SURVEYOR NO. 3051 STATE OF MISSISSIPPI

EROSION CONTROL PLAN

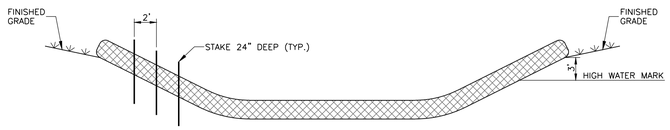
1



ISOMETRIC VIEW

CONSTRUCTION ENTRANCE DETAIL

N.T.S.



WATTLE INSTALLATION CRITERIA:

MAY BE INSTALLED FLAT ON THE GROUND OR ENTRENCHED.

MAY BE INSTALLED OVER BARE SOIL OR OVER EROSION CONTROL BLANKETS AND ON STEEP SLOPES.

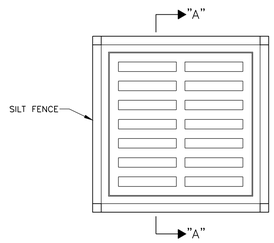
SHOULD REMAIN IN PLACE UNTIL VEGETATION IS FULLY ESTABLISHED AND CAN SURVIVE ON ITS OWN.

TYPICALLY SECURED TO THE SUBGRADE SOIL USING A 1-INCH BY 1-INCH WOOD STAKE. STAKES SHOULD BE PLACED EVERY TWO FEET ACROSS THE LENGTH OF THE SEDIMENT TUBE. STAKES SHOULD BE INTERTWINED WITH OUTER MESH ON THE DOWNSTREAM SIDE AND DRIVEN INTO THE GROUND A MINIMUM OF 24 INCHES.

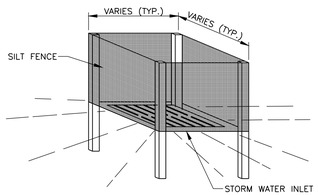
WATTLES PLACED IN SWALES OR CHANNEL BOTTOMS SHOULD CONTINUE UP THE SIDE SLOPES THREE FEET ABOVE THE ANTICIPATED HIGH WATER MARK AND PERPENDICULAR TO THE FLOW OF WATER.

WATTLE INSTALLATION DETAIL

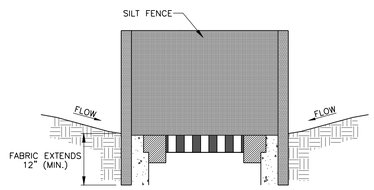
N.T.S.



PLAN VIEW



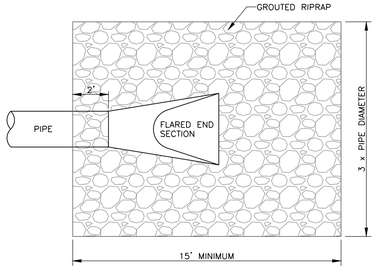
ISOMETRIC VIEW



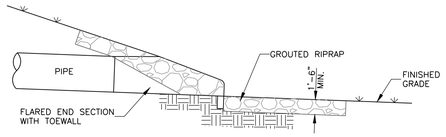
SECTION "A-A"

SILT FENCE INLET PROTECTION DETAILS

N.T.S.



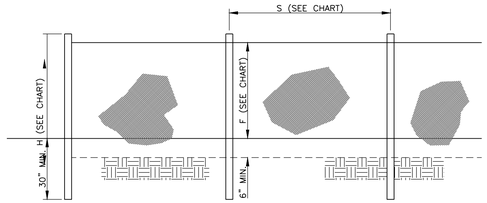
PLAN VIEW



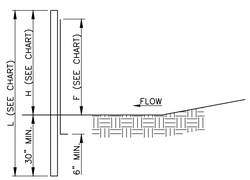
SECTION

FLARED END SECTION WITH RIPRAP DETAILS

N.T.S.



ELEVATION



SECTION

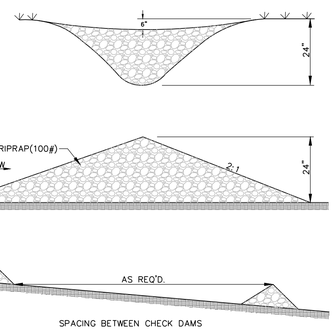
POST SIZE, MATERIAL AND SPACING CHART		
	WITHOUT BACKING	WITH BACKING
MIN. LENGTH = L	58"	58"
MIN. HEIGHT = H	2'-0"	2'-6"
MAX. SPACING = S	6'-0"	6'-0"
MIN FABRIC WIDTH	28"	28"
MATERIAL	1.25 LB/FT. STEEL	1.25 LB/FT. STEEL
	WITHOUT BACKING	WITH BACKING
TENSILE STRENGTH (LBS. MIN.)(1) (ASTM D-4632)	WARP - 120 FILL - 100	WARP - 330 FILL - 200
ELONGATION (% MAX.) (ASTM D-4632)	20	------
AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	#30	#70
FLOW RATE (GAL/MIN./SQ.FT) (GDT-87) (MAX.)	4	18
ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	70	90
BURSTING STRENGTH (PSI MIN.) (ASTM D-3786 DIAPHRAM BURSTING STRENGTH TESTER)	250	400
MIN. FABRIC WIDTH (INCHES) = F+8"	36	36
(1) MINIMUM ROLL AVERAGE OF FIVE SPECIMENS (2) PERCENT OF REQUIRED INITIAL MINIMUM STRENGTH		

NOTES:

1. USE SILT FENCE WITHOUT BACKING UNLESS OTHERWISE NOTED.
2. SILT FENCE SHALL BE INSTALLED USING A MECHANICAL TRENCHING MACHINE.
3. FABRIC, IN AREAS WHERE ROCK PROHIBITS PROPER EMBEDMENT, SHALL BE SECURED BY PLACING CLEAN CRUSHED STONE OR SAND ALONG THE BASE OF THE FENCE, 20 POUNDS OF STONE OR SAND PER FOOT, MINIMUM.
4. FILTER FABRIC SHALL BE FASTENED TO POSTS WITH A MINIMUM OF FIVE WIRES OR PLASTIC ZIP TIES WITH A MINIMUM OF 50 LBS. TENSILE STRENGTH.
5. CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT WHEN SEDIMENT DEPTH REACHES 12".

SILT FENCE INSTALLATION DETAILS

N.T.S.



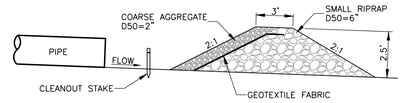
SPACING BETWEEN CHECK DAMS

CHECK DAM DETAILS

N.T.S.

NOTES:

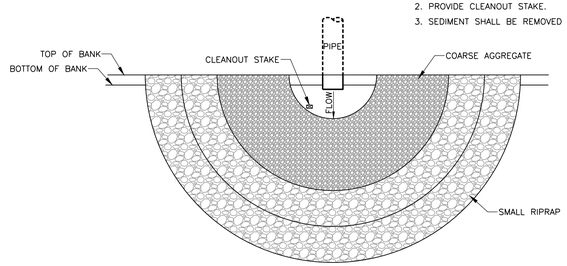
1. CHECK DAM SHALL BE NO MORE THAN 2 FEET IN HEIGHT
2. THE CENTER OF THE CHECK DAM SHALL BE AT LEAST 6 INCHES LOWER THAN THE OUTER EDGES.
3. COVER THE SWALE WITH THE CHECK DAM AND SET THE HEIGHT FO THE OUTER EDGES SO THAT RUNOFF WILL NOT FLOW AROUND EITHER END.
4. SPACE THE CHECK DAMS SO THAT THE CENTER OF EACH CHECK DAM IS THE SAME ELEVATION AS THE BOTTOM OF THE CHECK DAM IMMEDIATELY ABOVE IT.
5. USE 100# RIPRAP PLACED ON FILTER FABRIC.
6. CHECK FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 OF THE DAM'S ORIGINAL HEIGHT.
7. CHECK FOR EROSION AROUND EDGES OF DAM AND EXTEND DAM IF EROSION IS TAKING PLACE.
8. REMOVE DAM WHEN SURROUNDING AREA HAS BEEN STABILIZED. IMMEDIATELY STABILIZE AREA UNDER DAM.



CROSS SECTION VIEW

NOTES:

1. AGGREGATE AND RIPRAP SHALL BE WASHED WITH LITTLE TO NO FINES.
2. PROVIDE CLEANOUT STAKE.
3. SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF FULL.



OUTLET (PLAN VIEW)

TEMPORARY STONE FILTER RING DETAILS

N.T.S.

Revisions

#	Date	Nature	By	Appr'd.

Project No.	M-2881
Designed By	R.C.M.
Date	11-13-21
Drawn By	R.C.M.
Scale	SEE ABOVE
Checked By	R.C.M.

THE REFUGE OF MADISON
MADISON COUNTY, MISSISSIPPI

McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090

RONALD C. McMASTER JR. LICENSED PROFESSIONAL ENGINEER AND SURVEYOR No. 14046 P.S. 3051 STATE OF MISSISSIPPI

DETAILS

2