

**STORM WATER POLLUTION
PREVENTION PLAN (SWPPP)
&
LARGE CONSTRUCTION NOTICE
OF INTENT (LCNOI)**

FOR

Petal Elementary School
New Herrington Road Campus
Petal, Forrest County, Mississippi 39465

June, 2023

PREPARED BY:



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TABLE OF CONTENTS

SECTION	PAGE NO.
I. Introduction	2
II. Site Information	
A. Site Description	2
B. Drainage Patterns	2
C. Description of Work	2
D. Potential Pollution Sources	3
E. Non-Storm Water Discharges	3
F. Non-Storm Water Solid Materials	3
III. Best Management Practices	
A. General	3
B. Vegetative Controls	3
C. Structural Controls	4
D. Housekeeping Practices	4
E. Post Construction Storm Water Management Measures	4
IV. Implementation Sequence	5
V. Inspections, Maintenance and Reporting	
A. Inspections	5
B. Maintenance	5
C. Reporting	5
VI. Revisions	6
Appendix A – Vegetative Seeding Schedule	
Appendix B – Large Construction Forms Package	
Appendix C – U.S.G.S Quadrangle Map and Aerial Map with Project Location	
Appendix D - Erosion Control Plans	
Appendix E - Erosion Control Details	

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 related to the proposed project. The storm-water pollution prevention plan has been prepared as required by the Mississippi Department of Environmental Quality in compliance with the application regulations for sites that disturb more than five (5) acres of erosive area.

This SWPPP is to be incorporated into the routine construction activities at the development. The potential sources of pollution have been identified at the site and are described in this 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.

II. SITE INFORMATION

- A. Site Description:** The site is located Petal School located at 60 Herrington Road in Section 33, T-5-N, R-12-W, Forrest County, Mississippi. The site is currently consists of undeveloped wooded land, and is bordered on the north and west by Herrington Road, undeveloped land to the south and east. The site consists of flat terrain sloping in a southeasterly direction away from Herrington Road. Slopes range from zero to five percent (0-5%). The property is located in Flood Zones “X” & “A”, as per Flood Insurance Rate Map (FIRM) Number 28035C0127D, effective date March 2, 2010. Zone “X” is designated on said FIRM as “Areas determined to be outside the 0.2% annual chance floodplain” and Zone “A” is “Without Base Flood Elevation.
- B. Drainage Patterns:** The middle of site consists of flat terrain (0-5%) with sloping away from the middle of the site. Post-construction storm water runoff generated by the proposed site improvements will be detained in an above-ground storm water detention system before being discharged off-site. Discharge from said site will flow in a southeasterly direction to Reese Creek.
- C. Description of Work:** Initial earthwork operations will consist of establishment of erosion control measures, followed by completion of on-site grading. Erosion control measures will be implemented to prevent the off-site runoff of sediment from disturbed areas. Phases of construction include site clearing, site grading, installation of storm drainage and utilities, parking lot paving, and building construction. The total disturbed area for the development is estimated at 17.5 acres.
- 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.

- E. **Non-Storm Water Discharges:** Potential non-storm water discharges consist of irrigation water and watering of the haul roads to control dust. Due to the permeability of the soil and the arid conditions when this activity is required, no significant impact is anticipated from these sources.
- F. **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.

III. BEST MANAGEMENT PRACTICES AND CONTROLS

- A. **General:** In order to prevent contamination of storm water by the potential pollutants previously discussed, erosion and sediment controls during construction will be designed to prevent and minimize erosion and retain sediment onsite to the extent practical, and to ensure that no significant changes occur in the volume or characteristics of storm water runoff to receiving waters. All erosion and sediment control measures will be properly selected, installed, and maintained in accordance with the manufacturer's specifications and sound engineering practices. These measures shall be installed in accordance with the details provided and located at periodic intervals. All disturbed areas shall be grassed, and existing vegetation on undisturbed areas shall be maintained as long as possible.

The storm water which leaves the site shall meet the non-numeric limitations of being free from the following:

- 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; and
- chemicals in concentrations what would cause violations of the State Water Quality Criteria in the receiving waters.

- B. **Vegetative Controls:** Existing trees will be preserved where possible. All diversions will be seeded (permanent seeding) immediately after completion of construction. Topsoil will be stockpiled for use in landscaping. Grass-lined waterways will be dressed with a thin layer of topsoil, seeded and mulched immediately after completion of construction. Temporary straw-net liners may be required on steeper ditches and slopes to facilitate vegetative growth. Steeper ditch slopes may require permanent treatment such as solid sod or concrete paving of the inverts to prevent erosion. All 3:1 cut slopes will be roughened by disking prior to seeding. After rough grading or installation of

storm drainage and utilities, all disturbed areas where construction activities have temporarily ceased and will not resume for a period of fourteen (14) days or more, shall be immediately seeded and mulched. After final grading, all disturbed areas will be stabilized immediately after completion of final grading.

See Appendix A for seeding, fertilizing, and mulching rates.

- C. **Structural Controls:** Prior to establishment of permanent vegetation on reclaimed areas, temporary controls will be established and maintained during construction. Where possible, upslope waters shall be diverted around disturbed areas. Intermittent berms and turn-outs shall be used on steep haul roads slopes as a means to minimize longitudinal erosion and to provide drainage relief.

Silt fence and brush barriers shall be placed along the downstream side of excavation areas and to protect the ditches from erosion. Silt fences shall also be installed along the toe of fill slopes and around the perimeter of topsoil stockpiles to prevent off-site sediment runoff. Hay bales and/or wattles shall be used to stabilize slopes and protect ditches from erosion. All cut slopes will be at or below 3:1 grade. Inlet protection (hay bales and/or wattles) will be installed around drainage structures to form a barrier. Rip-rap or flexamat shall be placed at culvert outlets to reduce velocities and minimize erosion. A construction entrance will be placed at a designated location, and any accumulation of mud on vehicle tires will be washed, if needed, during muddy conditions.

- D. **Housekeeping Practices:** All equipment maintenance and repair will occur done off-site. Trash cans or dumpsters will be placed at convenient locations throughout site. The main trash collection bin will be located for convenient use and pickup by disposal entity. Paints, solvents, fertilizers, or any other potentially toxic materials will not be stored on-site. Portable sanitary facilities will be provided for construction workers during home construction. Concrete truck drivers will be instructed to return any materials to the concrete batch plant and complete final washing procedures at that location.
- E. **Post-Construction Storm Water Management Measures:** Riprap or flexamat shall be placed at pipe culvert outfalls to minimize erosion. All disturbed areas shall be stabilized with a complete stand of grass. Ditches with excessive slopes shall receive permanent stabilization such as riprap check dams, geosynthetic mats, solid sod or concrete paving. Any sediment basins designated to be converted to detention basins shall be improved and stabilized.

IV. IMPLEMENTATION SEQUENCE

The owner or prime contractor shall prepare an orderly listing which coordinates the

timing of all major land-disturbing activities together with the necessary erosion and sedimentation control measures planned for the project. For the purposes of this project, the Implementation Sequence is described below:

- 1. Construct Temporary Construction Entrance*
- 2. Equipment Maintenance and Storage Areas*
- 3. Install Silt Fence (down slope of demo area)*
- 4. Site Clearing*
- 5. Site Grading*
- 6. Storm Drainage Installation with Inlet/Outlet Protection*
- 7. Plant Temporary Vegetation on Disturbed Areas*
- 8. Install Utilities*
- 9. Complete Concrete Paving*
- 10. Building and Sidewalk Construction*
- 11. Fine Grading*
- 12. Apply Topsoil to Disturbed Areas and Plant Permanent Vegetation and Ditch Treatment as needed (Sod, Concrete Ditch Paving, Etc.)*
- 13. After Site is Stabilized, Remove all Temporary Measures (Silt Fence, Hay Bales, Brush Barriers, Construction Entrance, Etc.)*

V. INSPECTIONS, MAINTENANCE AND REPORTING

- A. Inspections:** Inspections of the best management practices and other storm water pollution prevention plan requirements shall be performed by the contractor or owner as follows:
1. At least once weekly.
 2. After the occurrence of all rain events significant enough to produce a discharge.
 3. As often as necessary to insure that appropriate erosion and sediment controls have been properly constructed and maintained.
- B. Maintenance:** Any deficiencies noted during the inspection process should be repaired or remedied within 24 hours. Remove sediment from structural controls the basin, inlet protection devices and silt fences when accumulated sediment reaches one-third (1/3) to one-half (1/2) of the height of the control has reach 50 percent capacity. Replace non-functional silt fence. Maintain all vegetated areas to provide proper ground cover; reseed, fertilize and mulch as needed to minimize erosions and sedimentation.

- C. **Reporting:** The owner and/or contractor must inspect, as described in above section, and maintain controls and keep all reports on file noting damages or deficiencies and corrective measures, using the form provided in the appendix of this plan. No reports should be submitted to the Mississippi Department of Environmental Quality unless specifically requested. As previously stated, all records, reports, and information resulting from activities required by this plan and your permit should be retained for at least three years from the date of the CNOI, inspection or report.

A rain gauge is recommended to be placed in a central location on the site and used to obtain rainfall amounts. This information will assist with proper completion of the inspection report.

VI. REVISIONS

The SWPPP will be kept current by the company representative and will be revised as changes in site conditions warrant. The company representative may notify the SWPPP developer for assistance when necessary. Factors that would compel the SWPPP to be modified include:

- Significant inadequacies revealed by routine inspections;
- Changes in identified sources, non-storm water discharges, or non-storm water solid wastes; or
- MDEQ or local agency notification that the plan does not meet one or more of the minimum requirements.
- An increase in the scope of the project outside of the original plan.

APPENDIX A

VEGETATIVE SEEDING RATES FOR EROSION CONTROL

SPECIES	RATE/ACRE	DATE
* Pensacola Bahia	40#	Mar. 1 - July 15 Sept. 1- Nov. 30
Hulled Common Bermuda	15#	Mar. 1 - July 15 Sept. 1 – Nov. 30
Centipede	4#	Mar. 1 - July 15
** Browntop Millet	40#	Apr. 1 – Aug. 15
** Cereal Rye	90#	Nov. 15 – Dec. 15
Carpet Grass	15#	Mar. 1 - July 15
Creeping Red Fescue	30#	Sept. 1 - Nov. 30
Pensacola Bahia	30#	Sept. 1 – Nov. 15
Un-hulled Common Bermuda	10#	Sept 1 – Oct. 30
PLUS		
** Wheat	90#	Sept. 1 – Nov. 30
** Ryegrass	60#	Sept. 1 – Nov. 30
** Crimson Clover	25#	Sept. 1 – Nov. 30

-
- * Not For Use In Residential Subdivisions
 - ** Temporary Cover to be followed or mixed with a perennial
 - *** Fertilizer (13-13-13): Use 400# /Ac. on Crimson Clover

MULCH

Hay or Wheat Straw	2 tons	After Seeding
--------------------	--------	---------------

FERTILIZER

*** 13-13-13	600 #	Before Seeding
Lime	2 tons	Before Seeding

A current soil analysis recommendation may be substituted.

Desired pH range = 6.0 - 7.0 for all grasses

SEED BED PREPARATION

Slope all banks to a minimum of 3:1. Flatter if possible

After shaping and smoothing, pulverize soil to depth of 6 inches and harrow. Lime and fertilizer can be incorporated during seed bed preparation.

APPENDIX B

Large Construction Forms Package

AI: 83325

Coverage #:
MSR109082



MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY

Rec'd via email:
09/12/2023

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

INSTRUCTIONS

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

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

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

Submittals with this LCNOI must include:

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

Additional submittals may include the following, if applicable:

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

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

O.C

MSR10 9082

(NUMBER TO BE ASSIGNED BY STATE)

APPLICANT IS THE: ☒ OWNER ☐ PRIME CONTRACTOR

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: William Wheat, CFO
OWNER COMPANY LEGAL NAME: Petal School District
OWNER STREET OR P.O. BOX: 115 East Central Avenue
OWNER CITY: Petal STATE: MS ZIP: 39465
OWNER PHONE #: (601) 545-33002 OWNER EMAIL: william.wheat@petalschools.com

PREPARER CONTACT INFORMATION

IF NOI WAS PREPARED BY SOMEONE OTHER THAN THE APPLICANT

CONTACT PERSON: Shelby Murray, PE
COMPANY LEGAL NAME: Clearpoint Consulting Engineers, P.A.
STREET OR P.O. BOX: 6652 US Hwy 98
CITY: Hattiesburg STATE: MS ZIP: 39402
PHONE # () 601-261-2609 EMAIL: shelby@clearpointengineers.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: Petal Elementary School
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: Near 60 Herrington Road (Official Address not yet Assigned)
CITY: Petal STATE: MS COUNTY: Forrest ZIP: 39465
FACILITY SITE TRIBAL LAND ID (N/A If not applicable): _____
LATITUDE: 31 degrees 21 minutes 32 seconds LONGITUDE: 89 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: 28 Acres +/-

IS THIS PART OF A LARGER COMMON PLAN OF DEVELOPMENT?

YES ☐

NO ☒

IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT:
AND PERMIT COVERAGE NUMBER: MSR10 _____

ESTIMATED CONSTRUCTION PROJECT START DATE:

September 2023
YYYY-MM-DD

ESTIMATED CONSTRUCTION PROJECT END DATE:

August 2025
YYYY-MM-DD

DESCRIPTION OF CONSTRUCTION ACTIVITY: Construct New School, Parkign Lots and Access Roads

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:

Elementary School

SIC Code: _____ NAICS Code: _____

NEAREST NAMED RECEIVING STREAM: Reoso Creek

IS RECEIVING STREAM ON MISSISSIPPI'S 303(d) LIST OF IMPAIRED WATER
BODIES? (The 303(d) list of impaired waters and TMDL stream segments may be found on MDEQ's web site:
http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section)

YES ☒

NO ☐

HAS A TMDL BEEN ESTABLISHED FOR THE RECEIVING STREAM SEGMENT?

YES ☐

NO ☒

FOR WHICH POLLUTANT:

ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES
WITHIN ½ MILE DOWNSTREAM OF PROJECT BOUNDRY THAT MAY BE IMPACTED BY THE CONSTRUCTION
ACTIVITY?

YES ☒

NO ☐

EXISTING DATA DESCRIBING THE SOIL (for linear projects please describe in SWPPP):

Prentiss Loam, 0-2 percent and 2-5 percent slopes

WILL FLOCCULANTS BE USED TO TREAT TURBIDITY IN STORM WATER?

YES ☐

NO ☒

IF YES, INDICATE THE TYPE OF FLOCCULANT.

☐

ANIONIC POLYACRYLAMIDE (PAM)
OTHER _____

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

IS A SDS SHEET INCLUDED FOR THE FLOCCULATE?

YES ☐

NO ☒

WILL THERE BE A 50 FT BUFFER BETWEEN THE PROJECT DISTURBANCE AND THE WATERS OF THE
STATE?

YES ☐

NO ☒

IF NOT, PROVIDE EQUIVALENT CONTROL MEASURES IN THE SWPPP.

¹Acreage for subdivision development includes areas disturbed by construction of roads, utilities and drainage. Additionally, a
housesite of at least 10,000 ft² 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 THE PROJECT REROUTING, FILLING OR CROSSING A STATE WATER CONVEYANCE YES ☐ NO ☐
OF ANY KIND? (If yes, please provide an antidegradation report.)

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

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

- ☒ Existing Municipal or Commercial System. Please attach plans and specifications for the collection system and the associated "Information Regarding Proposed Wastewater Projects" form or approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties. If the plans and specifications can not be provided at the time of LCNOI submittal, MDEQ will accept written acknowledgement from official(s) responsible for wastewater collection and treatment that the flows generated from the proposed project can and will be transported and treated properly. The letter must include the estimated flow.
- ☐ Collection and Treatment System will be Constructed. Please attach a copy of the cover of the NPDES discharge permit from MDEQ or indicate the date the application was submitted to MDEQ (Date: _____.)
- ☐ Individual Onsite Wastewater Disposal Systems for Subdivisions Less than 35 Lots. Please attach a copy of the Letter of General Acceptance from the Mississippi State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.
- ☐ Individual Onsite Wastewater Disposal Systems for Subdivisions Greater than 35 Lots. A determination of the feasibility of installing a central sewage collection and treatment system must be made by MDEQ. A copy of the response from MDEQ concerning the feasibility study must be attached. If a central collection and wastewater system is not feasible, then please attach a copy of the Letter of General Acceptance from the State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.

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

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Signature of Applicant¹ (owner or prime contractor)

2-27-2023
Date Signed

William Wheat
Printed Name¹

CFO
Title

¹This application shall be signed as follows:

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

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

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

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

Revised 3/23/22

APPENDIX C

U.S.G.S. Quadrangle and Aerial Map (With Project Location)

AERIAL MAP



Morrison Rd

Old Richton Rd

Herrington Rd.

PROJECT
LOCATION

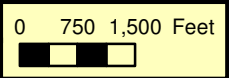
Herrington Rd.

Highway 42

Old MS Hwy 42

Corinth Rd

Sunrise Rd





QUAD MAP

Morrison Rd

Old Richton Rd

Herrington Rd.

PROJECT
LOCATION

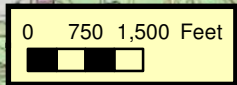
Herrington Rd.

Highway 42

Old MS Hwy 42

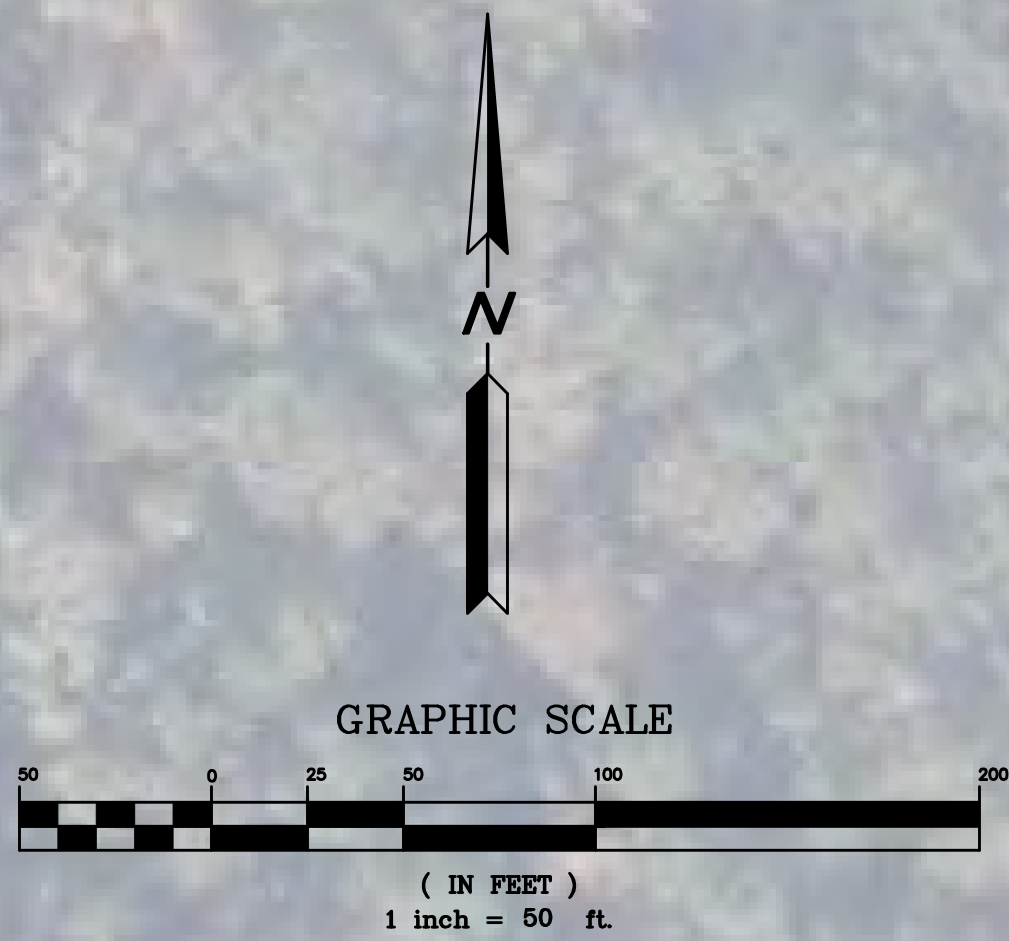
Corinth Rd

Sunrise Rd

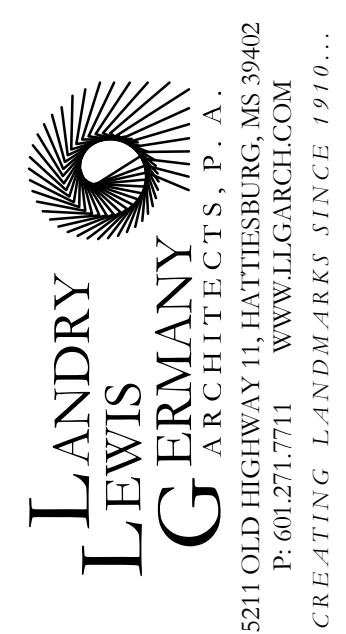


APPENDIX D

Erosion Control Plans



DRAWN	JCR
CHECKED	JCA
FINAL DATE	JUNE 30, 2023
REVISION SCHEDULE	
REV #	REV DATE



SHEET TITLE
EXISTING CONDITIONS AND DEMOLITION PLAN

PROJECT
PETAL ELEMENTARY SCHOOL
NOT FOR CONSTRUCTION
PETAL SCHOOL DISTRICT
PETAL, MISSISSIPPI



CN 22-3904B
SHEET NUMBER

C1.1

THE CONTRACTOR SHALL INCLUDE IN THEIR SCOPE OF WORK THE REMOVAL OF ALL ITEMS WITHIN CONSTRUCTION LIMITS AS REQUIRED TO COMPLETE THE CONSTRUCTION OF PROPOSED IMPROVEMENTS, WHETHER SPECIFICALLY INDICATED ON THIS PLAN TO BE REMOVED OR NOT, INCLUDING REMOVAL OF ALL TREES AND STUMPS ON-SITE AND ALONG RIGHT-OF-WAY OF HERRINGTON ROAD.

GENERAL NOTES:

- The location of utilities shown are approximate only. Excavation near utilities shown should be done with caution. Prior to construction operations, the Contractor shall verify the location of existing utilities on the project site, and shall promptly repair those which are damaged by his construction operations. The Mississippi One-Call Network (1-800-227-5477) should be notified prior to commencing with excavation activities.
- Specifications for all materials and construction methods for road and/or street work shall conform to the applicable provisions of the Mississippi Standard Specifications for Road and Bridge Construction, Latest Edition.
- Contractor shall provide a minimum 24 hour notice to the engineer prior to commencing any construction operations, sampling, or testing.
- Contractor shall provide all necessary fittings and appurtenances necessary for complete installation of all items whether specifically indicated or not.
- Any local, state, or federal permitting required for construction shall be the responsibility of the Contractor to obtain.
- It is the responsibility of the Contractor to protect existing structures and utilities that are to remain such as pipes, inlets, paved ditches, gas pipelines, water mains, sewer mains, underground powerlines, etc. from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged during the life of the Contract. No payment to Contractor will be made for replacement or repair of damaged items.
- To prevent damage to adjacent properties, Contractor shall properly establish the property boundaries of the subject property site prior to any construction activities within the subject property. The Contractor shall not enter upon or cause damage to adjacent properties without written permission from adjacent property owner(s).
- Contractor shall seed, fertilize, and mulch all areas disturbed by construction activities and insure a complete stand of grass. Contractor shall install sod around buildings and parking lots. Apply per seasonal limitations.
- Any local, state, or federal permitting required for construction shall be the responsibility of the Contractor.
- The Contractor shall be responsible for completing all sampling and testing of materials incorporated into the project and for submission of same to the Engineer for review. All phases of testing, including but not limited to sampling, transporting, and testing of materials, must be performed by a certified testing laboratory. Prior use test results, manufacturer's certificates, or proposed mix designs shall be submitted to the Engineer for review before incorporation into the project. This shall include embankment, back fill, seed, and all other items specified by the Engineer. Quality control/testing shall be the responsibility of the Contractor, and all costs associated with quality control/testing shall be absorbed by the Contractor.
- Contractor shall provide proper traffic control (signs, barricades, flagmen, etc.) when working within highway or county right-of-way. Appropriate personnel shall be notified at least 24 hours prior to commencing any construction operations within highway right-of-way. All traffic control materials and procedures shall be in full compliance with the latest version of the Manual on Uniform Traffic Control Devices (MUTCD).
- The Contractor is required to remove all spoil material on a daily basis, or as directed by the prime contractor.
- No construction activities shall commence until all approvals and permits have been obtained from governing authorities, including but not limited to those required by the City, County, MS Department of Health, MS Department of Environmental Quality, Mississippi Department of Transportation (MDOT), Corps of Engineers, Utility Associations). Any work performed prior to obtaining said permits and approvals shall occur at the risk of the Contractor and/or Owner.
- It is the responsibility of the Contractor to protect existing structures that are to remain such as pipes, inlets, and paved ditches, gas pipelines, etc. from damage which might occur during construction. No payment will be made for replacement or repair of damaged items.
- The Contractor shall assign a competent, experienced, and employed superintendent to be on site at all times during all phases of construction. Work on the project site shall cease if the superintendent is not on site.

EROSION CONTROL NOTES:

- Contractor is responsible for full compliance with the Storm Water Pollution Prevention Plan (SWPPP) for the project, and for following all local, state, and federal storm water regulations. The Contractor is responsible for installing erosion control measures shown on plans, as well as any additional erosion control measures required to prevent off-site sediment discharge. The Contractor is responsible for monitoring, and record keeping required by the SWPPP. A copy of the SWPPP is to remain on site at all times. All requirements specified in the SWPPP shall be included in the Contractor's scope of work under contract for the project.
- Storm water controls should be installed before any ground disturbance, and must be maintained throughout the lifetime of the project. They may only be removed when permanent stabilization is achieved.
- Additional erosion and sediment controls may be required to prevent sediment from leaving site. These can be found in the latest version of the "Planning and Design Manual for the Control of Erosion, Sediment, and Storm Water" available from MDEQ.
- The construction entrance shall be 1.5 inch to 3.5 inch coarse aggregate, 25 feet wide, a minimum of 50 feet long, and a minimum of 5 inches thick laid on top of filter fabric. If needed, a vehicle washing rack shall be included.
- All roadways are to be swept free of sediment and debris daily.
- The site is to be cleaned daily for debris that may enter the roadway ditches or storm drainage system.
- When capacity of erosion and sediment controls has been reduced by 50%, remove sediment and clean, or replace controls as necessary.
- All controls shall be inspected prior to any storm events, after a 2-year 24-hr rainfall event, and at least once every 7 days. If there are problems repairs shall be done within 7 days of discovery.
- All areas that are to be left temporarily undisturbed shall be seeded and mulched immediately after time of final disturbance.
- Final stabilization is to be achieved by establishing a complete stand of grass as per engineering recommendations and according to seasonal limitations. The applicable method(s) of vegetation shall be implemented immediately after time of final disturbance.
- CONSTRUCTION SEQUENCE**
 - Construct Temporary Construction Entrance and Temporary Construction Road
 - Equipment Maintenance and Storage Areas
 - Install Silt Fence (down slope of clearing/grubbing/fill areas)
 - Site Clearing and Grubbing
 - Install Brush Barrier(s) where Indicated
 - Strip and Stockpile Remaining Topsoil with Silt Fence Barrier
 - Mass Site Grading and Roadway Grading and Culvert Installation
 - Install Underground Storm Drainage Pipe with Inlet/Outlet Protection
 - Plant Temporary Vegetation on Disturbed Areas
 - Install Hay Bales, Silt Fences, Etc. in Ditches
 - Install Utilities
 - Complete Paving
 - Apply Topsoil to Disturbed Areas and Plant Permanent Vegetation and Ditch Treatment as Needed (Sod, Concrete Ditch Paving, Etc.)
 - Building Construction
 - Final Stabilization
 - After Site is Stabilized, Remove all Temporary Measures (Silt Fence, Hay Bales, Brush Barriers, Construction Entrance, Etc.)
- Civil contractor is responsible for all aspects for compliance with LCONI, including record keeping, erosion control measures, maintenance as required for full compliance with stormwater permit.

SEWER NOTES:

- Construction and materials for sanitary sewer improvements shall conform to the specifications of the Mississippi Department of Environmental Quality and the local sewer service provider.
- All sanitary sewer mains and services shall be PVC SDR-26.
- Bedding material shall be required beneath all sanitary sewer mains, and beneath all sanitary sewer services located under roadways and paved areas. Bedding material shall be a gravel-sand mixture, all of which passes a 1 1/2 inch sieve, not more than 30 percent of which passes a No. 4 sieve, and not more than 5 percent of which passes a No. 200 sieve.
- Unsuitable material (i.e. expansive clay, high moisture content) incapable of achieving compaction requirements shall not be used to backfill sewer pipe trenches.
- A manhole drop connection is required if the vertical distance between an influent sanitary sewer main or service and the bottom of the manhole exceeds two feet.
- Sewer mains and services must be buried a minimum of 36" below finished grade.
- Locator wire (14 gage copper) shall be placed along and attached to all new sewer force mains.
- The Contractor shall verify location, size, and invert elevation of existing sewer mains and/or manholes prior to commencing connection operations. The Contractor shall coordinate with the Engineer regarding any necessary adjustments to new sewer lines as necessary to allow for proper connection and installation.
- Contractor shall refer to mechanical / plumbing drawings to verify locations and sizes of sewer services prior to installation. Adjustments to sewer service location(s) and invert elevation(s), and grease trap locations (if required) shown on these drawings shall be made as necessary through coordination with the Project Engineer. For sewer services, the scope of these drawings terminates at a location five feet (5') outside of the exterior building wall. Refer to mechanical / plumbing drawings for continuation into the building.
- The Contractor is responsible for coordinating with the utility service provider prior to connecting to existing sewer or relocation of existing sewer (if required). The Contractor is responsible for ensuring that utility service personnel are present during critical phases of installation (i.e. connection, relocation, testing, etc.). Cost of connection fees shall be responsibility of the Contractor.
- Prior to being placed into service, all new sewer mains must be tested according to the specifications.
- The Contractor shall be responsible for providing minimum 48 hours notice to the sewer service provider during critical phases of sewer installation (i.e. connections, relocations, pressure tests, etc.) to allow opportunity for on-site observation.

GRADING AND DRAINAGE NOTES:

- All topsoil within the construction limits shall be stripped, stockpiled in a designated area to be approved by the Engineer, and replaced on slopes or as directed by the Engineer. Upon completion of grading, the Contractor shall place a sufficient quantity of topsoil (minimum of 4") to insure grass growth on the designated area. Topsoil shall be used to achieve final grades on roadway slopes and on slopes outside of paving limits. Any excess topsoil shall remain stockpiled for future use by the Owner.
- Contractor shall take whatever steps necessary to insure that positive drainage occurs on all areas of project site.
- At the expense of the Contractor, the Contractor shall maintain existing drainage patterns and construct temporary structures, embankments, and culverts as required to maintain the drainage system and capacity in the work area. Any and all temporary structures, embankments, and culverts constructed during the progress of work shall be removed and the area restored to its original condition.
- The Contractor shall furnish, place, and maintain all sheeting, shoring, and bracing required to support the sides of the required trench excavations. The Contractor shall be responsible for the sufficiency of any such supports to prevent any movement which can in any way damage or delay the work; endanger or cause damage to adjacent pavements, buildings, or other structures; or create undue hazards to workmen.
- voids created by the removal of posts, concrete anchors, footings, and pipes, etc. shall be backfilled and tamped in accordance with the specifications. Cost to be absorbed by Contractor.
- Existing ground elevations are based on NAVD83 datum as per survey provided by Clearpoint.
- Refer to details for bedding requirements for High Performance (HP) storm drainage pipe and High Density Polyethylene (HDPE) pipe.
- Drainage structures may be pre-cast or cast-in-place. Drainage structure dimensions shown on storm drainage plan/profile sheets are standard precast dimensions, and may be modified if cast-in-place structures are installed.
- Curb inlet or grate inlet tops shall conform to the longitudinal top of curb grade and must be cast-in-place. For curb inlets on longitudinal grade, precast tops are not permitted. Curb inlet top elevations shown are referenced to the top of curb elevation at the center of the curb inlet box. Where located adjacent to curb and gutter, grate inlet tops shall be set equal to flowline elevation of gutter.
- All sizes of flared end sections may be furnished with either bell and spigot or tongue and groove joints.
- The Contractor shall verify location, size, and invert elevation of existing storm drainage pipes, structures, and ditches prior to commencing connection operations. The Contractor shall provide necessary adjustments to new storm drainage lines as necessary to allow for connection and installation.

PAVING NOTES:

- Specifications for all materials and construction methods for paving work, subbase and subgrade construction, and striping shall conform to the applicable provisions of the Mississippi Standard Specifications for Road and Bridge Construction, latest edition. Specifically, minimum and maximum asphalt lift thickness requirements shall conform to Section 401 of the Mississippi Standard Specifications for Road and Bridge Construction, latest edition.
- Refer to Geotechnical Report provided by Burns & McDonnell, Inc. (Project # 201505) dated May 1, 2023 for Additional Details. Contractor is to construct all aspects of project as per the geotechnical report recommendations.

WATER NOTES:

- Construction and materials for the water distribution system shall conform to the specifications of the Mississippi Department of Health and Barrator Water Association.
- Water mains and services shall be installed at least 10 feet horizontally and 18 inches vertically from any sewer main or service or sewer manhole. The bottom of the water pipe shall be at least 18 inches from the top of the sewer pipe. Water mains/services shall always be constructed above sewer mains/services. Where local conditions prevent adequate horizontal and vertical separation, the Bureau of Water Supply may allow the water mains/service to be laid closer to the sewer mains/service if supported by adequate design data from the design engineer. Each situation will be reviewed by the Bureau of Water Supply on a case by case basis. A detailed drawing shall be included in the plans for water line construction submitted to the Bureau of Water Supply for review and approval. Where adequate horizontal and/or vertical separation cannot be maintained, the following requirements shall apply:
 - If the 10 foot horizontal separation between water and sewer pipes cannot be maintained then the water pipe should be ductile iron with the water pipe joints located at the maximum distance possible from sewer pipe joints. PVC pipe may be used if it is protected by steel casing. Also, the water and sewer pipes must be in separate trenches with adequate space for maintenance. In some cases, special sewer pipe construction procedures may be required.
 - Where the 10 foot horizontal and 18 inch vertical separation cannot be maintained, condition 1 above must be met and the sewer pipe shall be constructed according to water main standards.
 - NOTE: Where water pipes cross sewer pipes, the above requirements will be waived if pipe segments are centered to provide a maximum spacing of the joints of both water and sewer pipes and a vertical separation of at least 18 inches (water over sewer) is maintained.
 - Location and size of existing water mains are based on original construction plans, information provided by others and by MS One-Call. The Contractor shall verify location and size of existing water mains prior to commencing boring or connection operations, and shall provide necessary adjustments to both new and existing water lines to allow for connection and installation.
 - Water mains and services must be buried a minimum of 36" below finished grade.
 - All water mains shall be Class 200 PVC pipe. All fittings shall be ductile iron. Concrete thrust blocking and Megalug fittings are required at all bends, valves, and tees.
 - The Contractor shall verify location and size of existing water mains prior to commencing boring or connection operations. The Contractor shall provide necessary adjustments to both new and existing water lines and utilities as necessary to allow for connection and installation.
 - All items shown on water lines (i.e. hydrants, valves, fittings) are shown in general locations only and may be slightly adjusted in the field as warranted by installation requirements. Where possible, valves and hydrants are to be installed in unpaved locations.
 - Locator wire (color blue) shall be placed along and attached to all water mains. Tracer wire to be a minimum of 3 feet in all valve boxes.
 - The Contractor is responsible for coordinating with the water service provider regarding proposed connections to existing water mains and regarding relocation of existing water mains. Cost of connection fees and meters shall be responsibility of the Contractor.

IMPORTANT NOTES:

- Contractor shall maintain positive drainage on project at all times.
- During construction all access to existing school facilities shall be maintained at all times.

LEGEND

	TEMPORARY HAY BALES		SUBJECT PROPERTY BOUNDARY
	PROP. REMOTE FIRE DEPT. CONNECTION		PROP. RIGHT-OF-WAY OR EASEMENT
	PROP. FIRE HYDRANT WITH VALVE		EX. RIGHT-OF-WAY OR EASEMENT
	PROP. GATE VALVE		PUBLIC LAND SYSTEM (40/SECTION) LINES
	EX. FIRE HYDRANT		PROP. CENTERLINE
	EX. GATE VALVE		PROP. TEMPORARY SILT FENCE
	EX. WATER METER		CENTERLINE OF DITCH OR SWALE
	PROP. PUMP STATION & VALVE PIT		PROP. CONTOUR
	PROP. SEWER MANHOLE		EX. MAJOR TOPOGRAPHIC CONTOUR
	PROP. SEWER CLEAN-OUT		EX. MINOR TOPOGRAPHIC CONTOUR
	PROP. GREASE TRAP		PROP. SETBACKS
	PROP. DOMESTIC WATER SERVICE		PROP. CONSTRUCTION LIMITS
	PROP. FIRE PROTECTION SERVICE		RAILROAD TRACKS
	PROP. SEWER SERVICE		WOOD FENCE
	EX. PUMP STATION WITH VALVE PIT		EX. CHAIN LINK FENCE
	EX. SEWER MANHOLE		EX. BARBED-WIRE FENCE
	EX. SEWER CLEAN-OUT		EX. TREE LINE
	PROP. LIGHT POLE		EX. EDGE OF PAVEMENT
	EX. LIGHT POLE		EX. 100 YEAR FLOODPLAIN BOUNDARY (PLOTTED FROM FIRM)
	EX. UTILITY POLE		PROP. ROADWAY DAYLIGHT LINE
	EX. GUY WIRE		PROP. STORM DRAINAGE PIPE WITH F.E.S.
	EX. POWER TRANSFORMER		EX. STORM DRAINAGE PIPE WITH F.E.S.
	PROP. HEAVY-DUTY GRATE INLET		PROP. WATER LINE (WITH SIZE)
	PROP. LIGHT-DUTY YARD INLET		PROP. GRAVITY SEWER MAIN (WITH SIZE)
	PROP. JUNCTION BOX		PROP. FORCE MAIN (WITH SIZE)
	PROP. CURB INLET WITH EXTENSION		EX. WATER MAIN (WITH SIZE)
	EX. HEAVY-DUTY GRATE INLET		EX. GRAVITY SEWER MAIN (WITH SIZE)
	EX. LIGHT-DUTY YARD INLET		EX. SEWER FORCE FORCE MAIN (WITH SIZE)
	EX. JUNCTION BOX		EX. GAS LINE (WITH SIZE)
	EX. CURB INLET WITH EXTENSION		EX. HIGH PRESSURE GAS LINE
	FINISHED GRADE SPOT ELEVATION		EX. OVERHEAD POWER LINE
	DIRECTION OF SURFACE FLOW		EX. UNDERGROUND POWER LINE
	HORIZONTAL/VERTICAL CONTROL POINT		EX. OVERHEAD TELEPHONE
	BURIED FIBER OPTIC MARKER		EX. UNDERGROUND TELEPHONE LINE
	BENCHMARK		EX. UNDERGROUND FIBER OPTIC LINE
	HANDICAP		EX. BURIED CABLE (UNKNOWN)
	TRAFFIC ARROW		PROP. IRRIGATION SLEEVE
	ROADWAY SIGN		HEAVY DUTY PAVEMENT
	BORE HOLE		LANDSCAPED SURFACE
	CONCRETE RIGHT-OF-WAY MARKER		CONCRETE SURFACE
	PROPERTY CORNER		RIP-RAP SURFACE
	HVAC UNIT		FLEXAMAT SURFACE
	FLAG POLE		
	WHEEL STOP		
	PROP. DRAINAGE STRUCTURE NUMBER		

ABBREVIATIONS

AC	ACRES	F.G.	FINISHED GROUND	PM	PLAN MEASURE
AEA	AVERAGE END AREA	FL	FLOW LINE	PMH	PROPOSED MANHOLE
AH	ABSORBED HAUL	FM	FINAL MEASURE	POB	POINT OF BEGINNING
APR	AS PER RECORD	FME	FINAL MEASURE EMBANKMENT	POC	POINT OF COMMENCEMENT
APS	AS PER SURVEY	GA	GAUGE	PRC	POINT OF REVERSE CURVATURE
BC-1	BRANCH CONNECTION	GP	GROUP	PROP.	PROPOSED
C.B.	CHORD BEARING	H.D.	HEAVY DUTY	PT	POINT OF TANGENCY
C.L.	CHORD LENGTH	HP	HIGH POINT	R	CURVE RADIUS
CL	CLASS	HYD	HYDRANT	R.D.	ROOF DRAIN
CMP	CORRUGATED METAL PIPE	INV.	INVERT	R.O.W.	RIGHT-OF-WAY
CONT.	CONTINUOUS	IPF	IRON PIN FOUND	RCAP	REINFORCED CONCRETE ARCH PIPE
CP	CONTROL POINT	IPS	IRON PIN SET	RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE	L	CURVE LENGTH	REQ'D	REQUIRED
CY	CUBIC YARDS	LB	POUNDS	RT	RIGHT
DS	DOWNSTREAM	LF	LINEAR FEET	SF	SQUARE FOOT
E=	EASTING	LP	LOW POINT	STA.	STATION
E.W.	EACH WAY	LS	LUMP SUM	SY	SQUARE YARD
EA.	EACH	LT	LEFT	TEMP.	TEMPORARY
E.G.	EXISTING GROUND	MPF	METAL PIPE FOUND	T.O.C.	TOP OF CURB
ELEV.	ELEVATION	N=	NORTHING	TYP.	TYPICAL
EMH	EXISTING MANHOLE	O.A.	ON CENTER	U.G.	UNDERGROUND
EX.	EXISTING	OS	OFFSET	US	UPSTREAM
F.B.	FLAT BOTTOM	PC	POINT OF CURVATURE	V.C.	VERTICAL CURVE
FCM	FOUND CONCRETE MARKER	PC-1	PIPE COLLAR	VF	VERTICAL FOOT
FES	FLARED END SECTION	PKF	PINE KNOT FOUND	WV	WATER VALVE

DRAWN

JCR

CHECKED

JCA

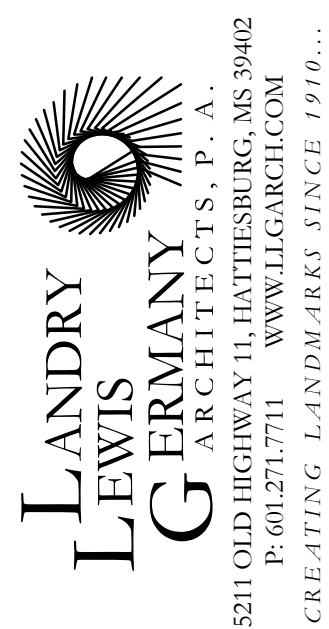
FINAL DATE

JUNE 30, 2023

REVISION SCHEDULE

REV #

REV DATE



PROJECT: PETAL ELEMENTARY SCHOOL
NOTES, LEGEND, AND ABBREVIATIONS
SHEET TITLE

NOT FOR CONSTRUCTION

PETAL SCHOOL DISTRICT
PETAL, MISSISSIPPI



CN 22-3904B

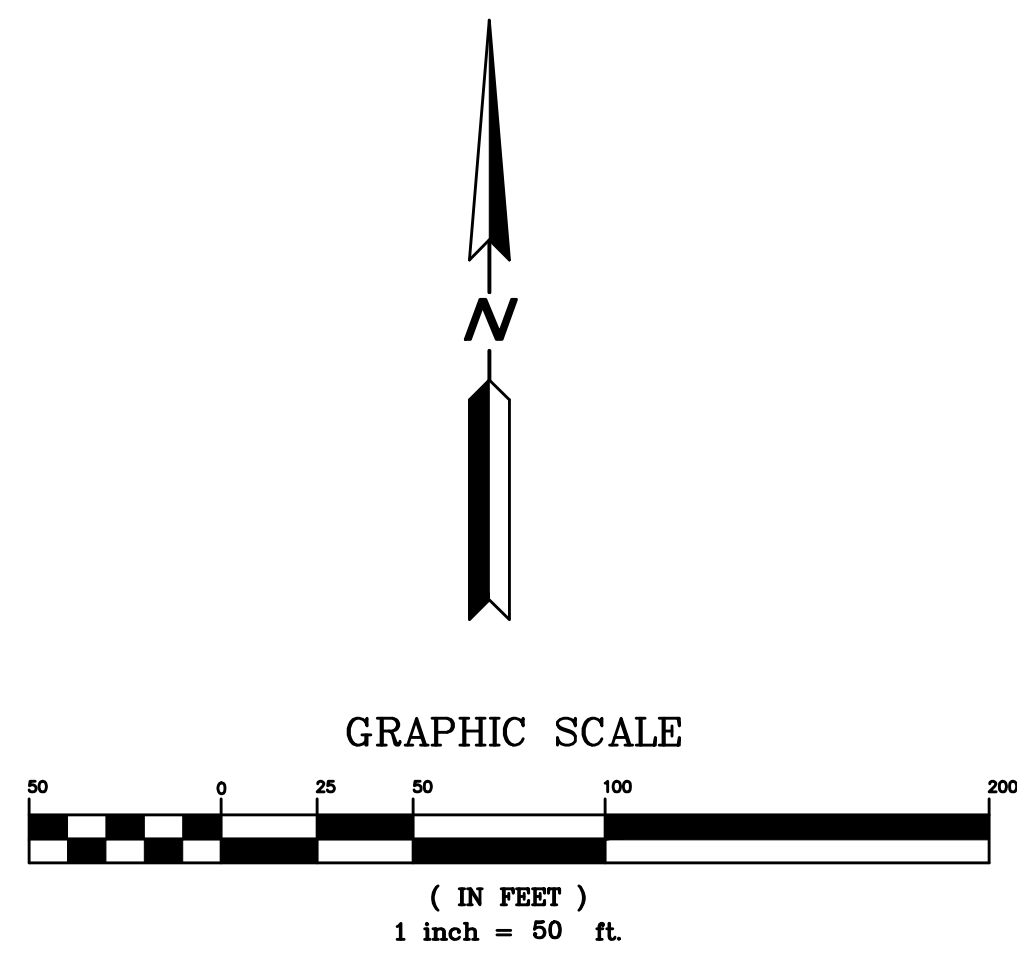
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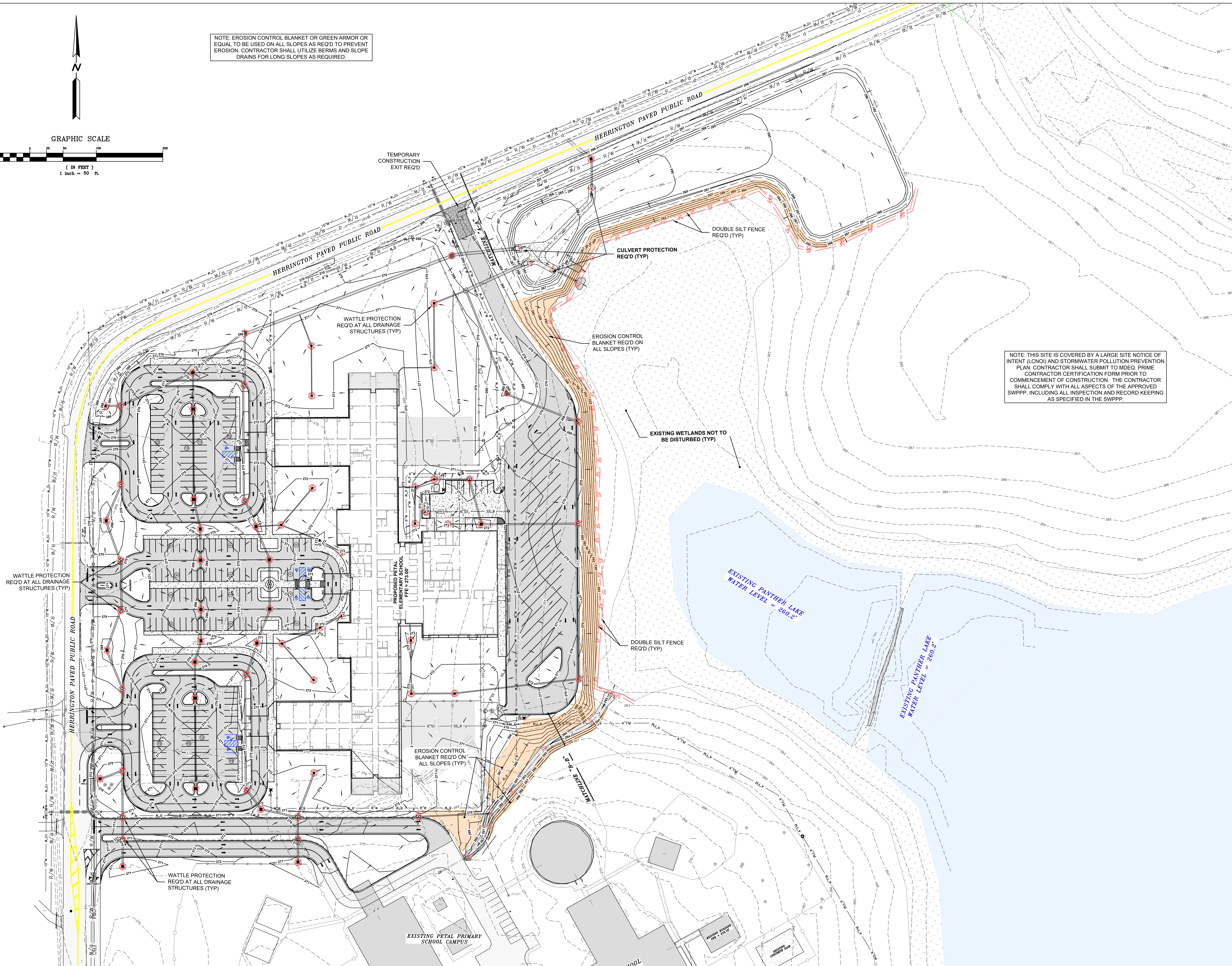


Utility Notes:

- The location of utilities are approximate only. Excavation near utilities shown should be done with caution. The Mississippi One-Call Network (1-800-227-5477) should be notified prior to commencing with excavation activities.
- Additional underground utilities may exist. Lacking excavation, however, the exact location of underground utilities cannot be accurately, completely, and reliably depicted. Where additional or more detailed information is required, the client is advised that excavation may be necessary.

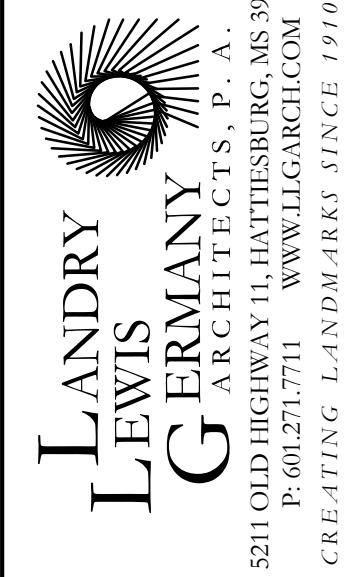


NOTE: EROSION CONTROL BLANKET OR GREEN ARMOR OR
EQUAL TO BE USED ON ALL SLOPES AS REQ'D TO PREVENT
EROSION. CONTRACTOR SHALL UTILIZE BERMS AND SLOPE
DRAINS FOR LONG SLOPES AS REQUIRED.



NOTE: THIS SITE IS COVERED BY A LARGE SITE NOTICE OF
INTENT (LNOI) AND STORMWATER POLLUTION PREVENTION
PLAN. CONTRACTOR SHALL SUBMIT TO MDEQ. PRIME
CONTRACTOR CERTIFICATION FORM PRIOR TO
COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR
SHALL COMPLY WITH ALL ASPECTS OF THE APPROVED
SWPPP, INCLUDING ALL INSPECTION AND RECORD KEEPING
AS SPECIFIED IN THE SWPPP.

DRAWN	JCR
CHECKED	JCA
FINAL DATE	JUNE 30, 2023
REVISION SCHEDULE	
REV #	REV DATE



SHEET TITLE
OVERALL EROSION CONTROL PLAN

PROJECT
PETAL ELEMENTARY SCHOOL
NOT FOR CONSTRUCTION
PETAL SCHOOL DISTRICT
PETAL, MISSISSIPPI



CN 22-3904B

SHEET NUMBER

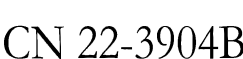
C2.1

**LANDRY
LEWIS
GERMANY**
ARCHITECTS, P. A.

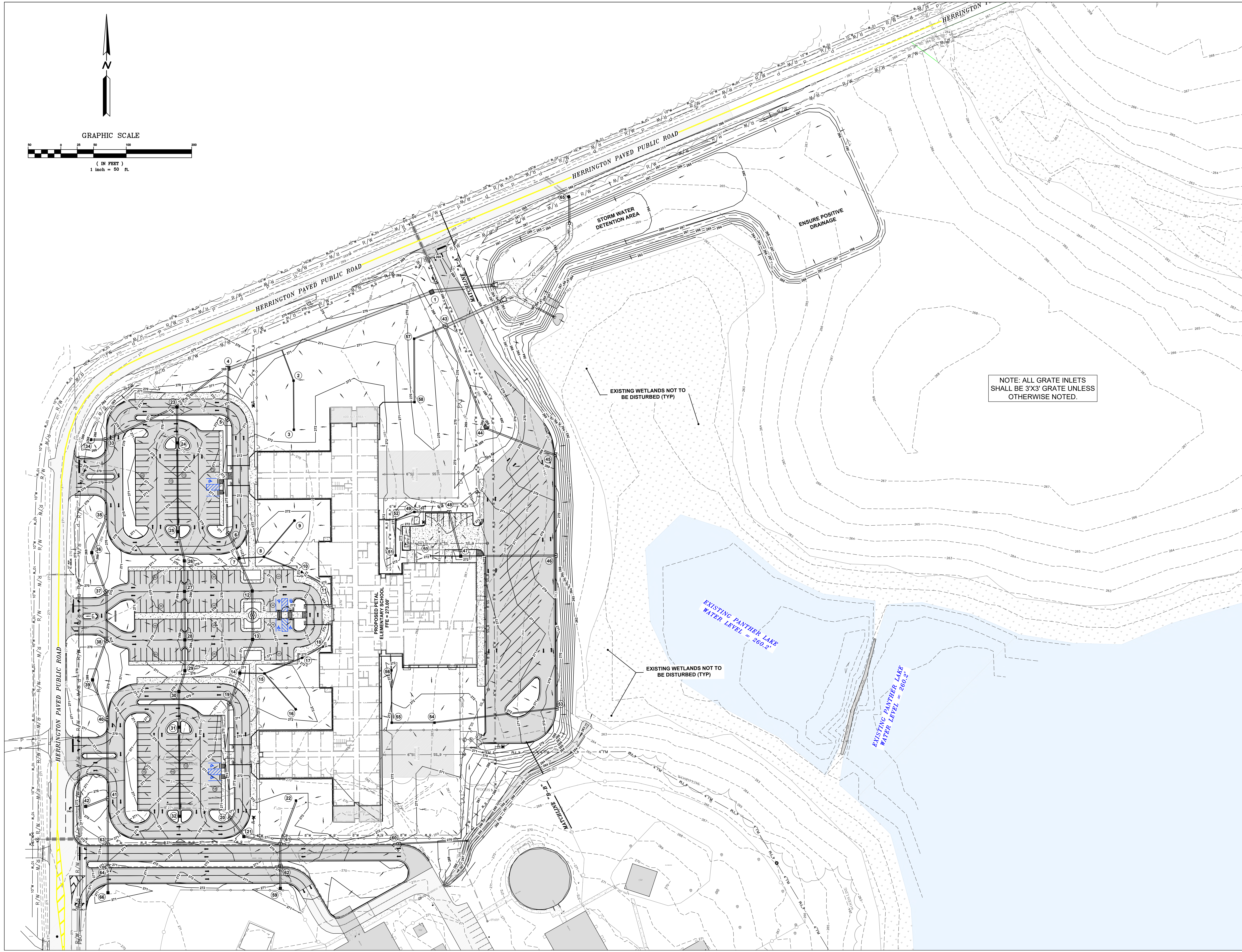
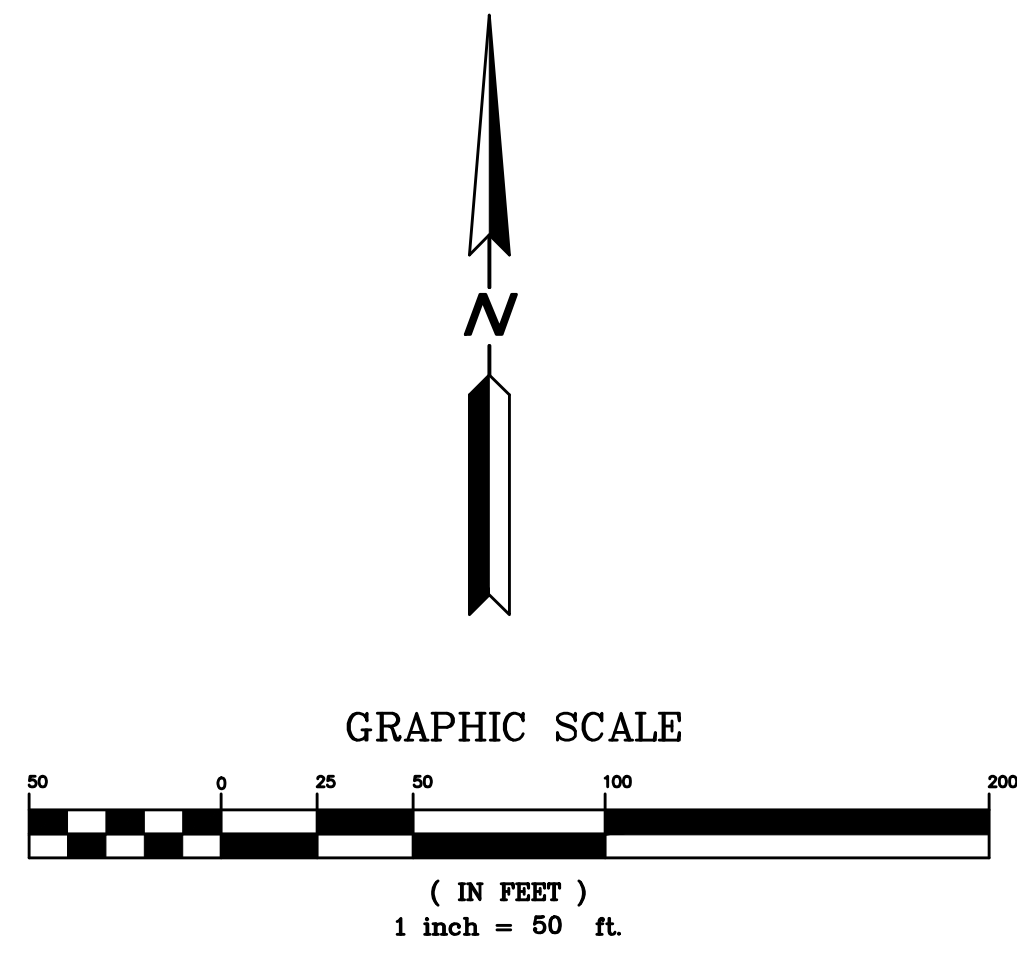
5211 OLD HIGHWAY 11, HATTIESBURG, MS 39401
P: 601.271.7711 WWW.LLGARCH.COM
CREATING LANDMARKS SINCE 1916

SCHOOL
NOT FOR CONSTRUCTION

PETAL ELEMENTARY
PETAL SCHOOL DISTRICT
PETAL, MISSISSIPPI

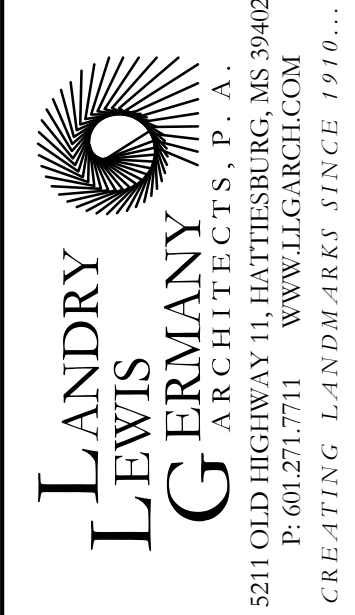


C3.2



NOTE: ALL GRATE INLETS
SHALL BE 3'X3' GRATE UNLESS
OTHERWISE NOTED.

DRAWN	
JCR	
CHECKED	
JCA	
FINAL DATE	
JUNE 30, 2023	
REVISION SCHEDULE	
REV #	REV DATE



SHEET TITLE
OVERALL GRADING AND DRAINAGE PLAN

PROJECT
PETAL ELEMENTARY SCHOOL
PETAL SCHOOL DISTRICT
PETAL, MISSISSIPPI

NOT FOR CONSTRUCTION

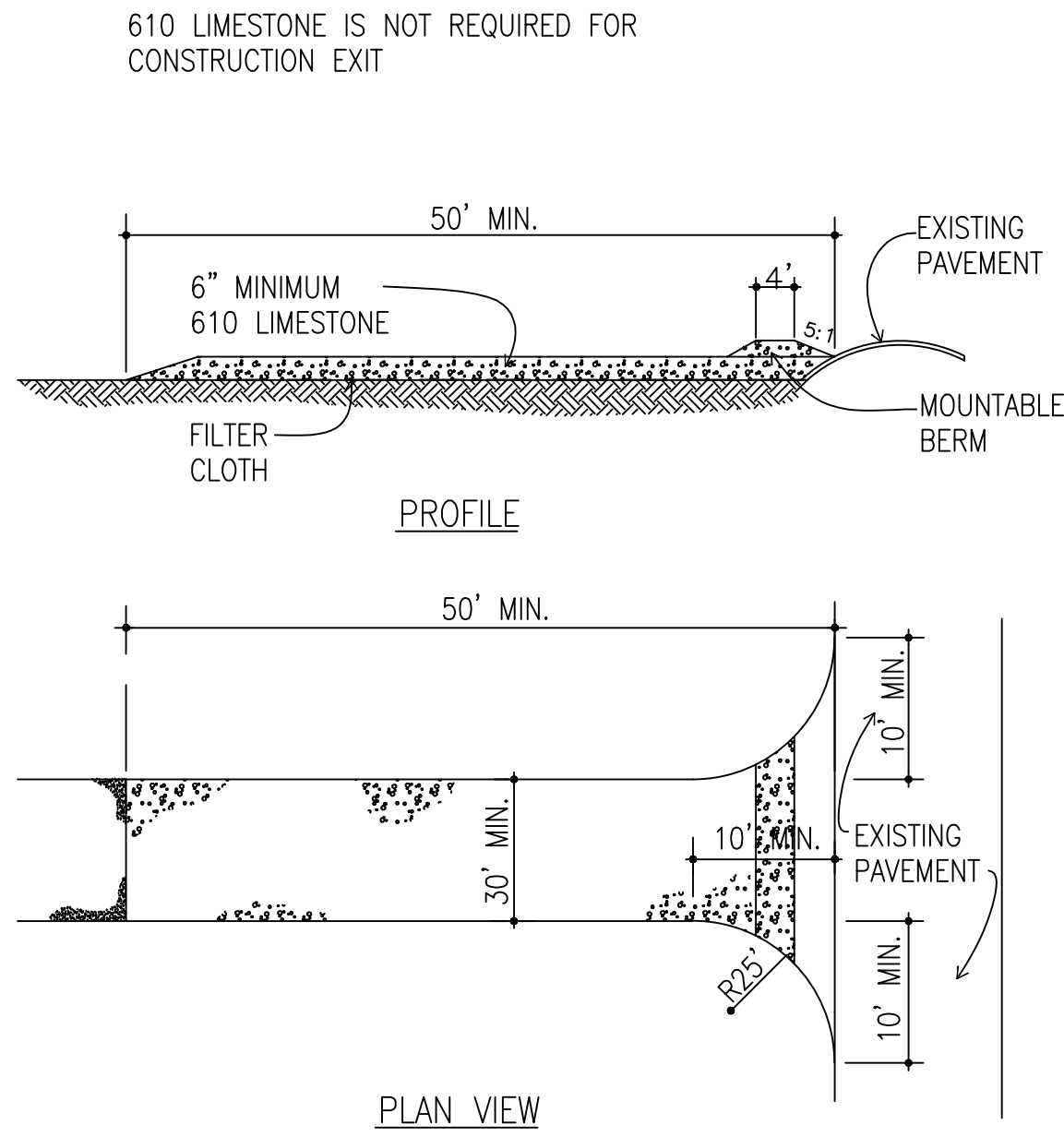


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SHEET NUMBER

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APPENDIX E

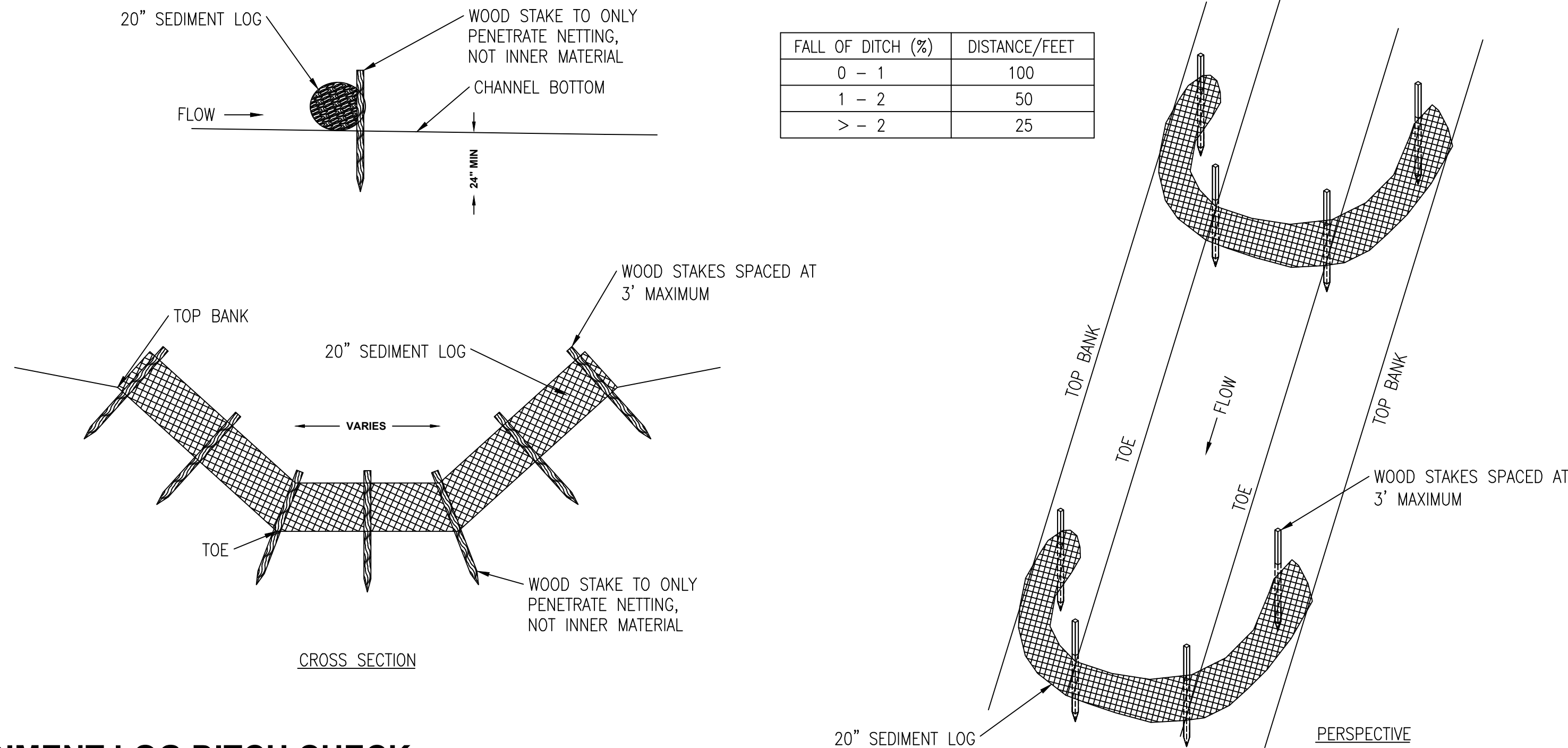
Erosion Control Details



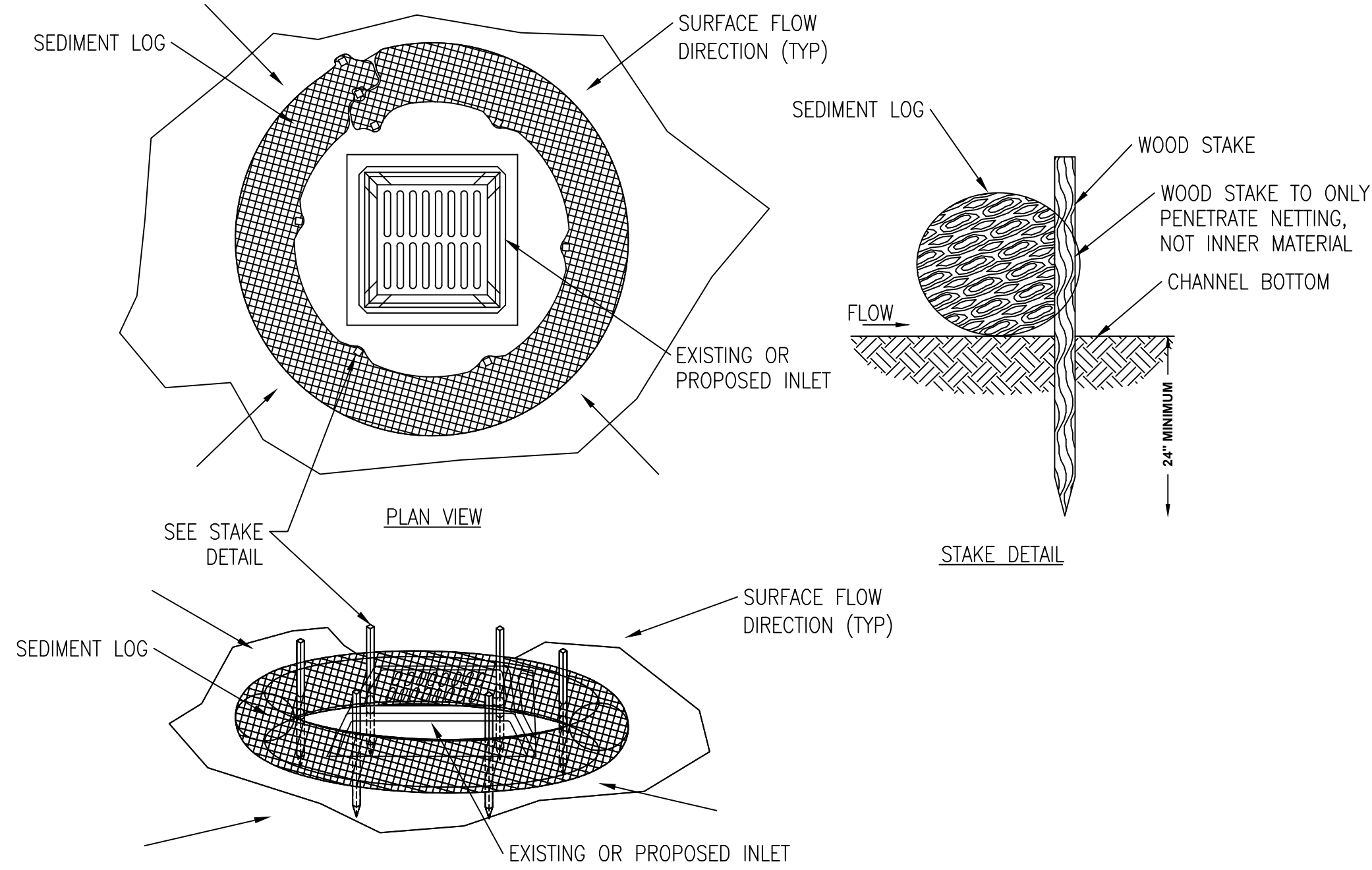
STABILIZED CONSTRUCTION EXIT

- STONE SIZE – USE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.
- DEPTH – NOT LESS THAN SIX (6) INCHES.
- WIDTH – THIRTY (30) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

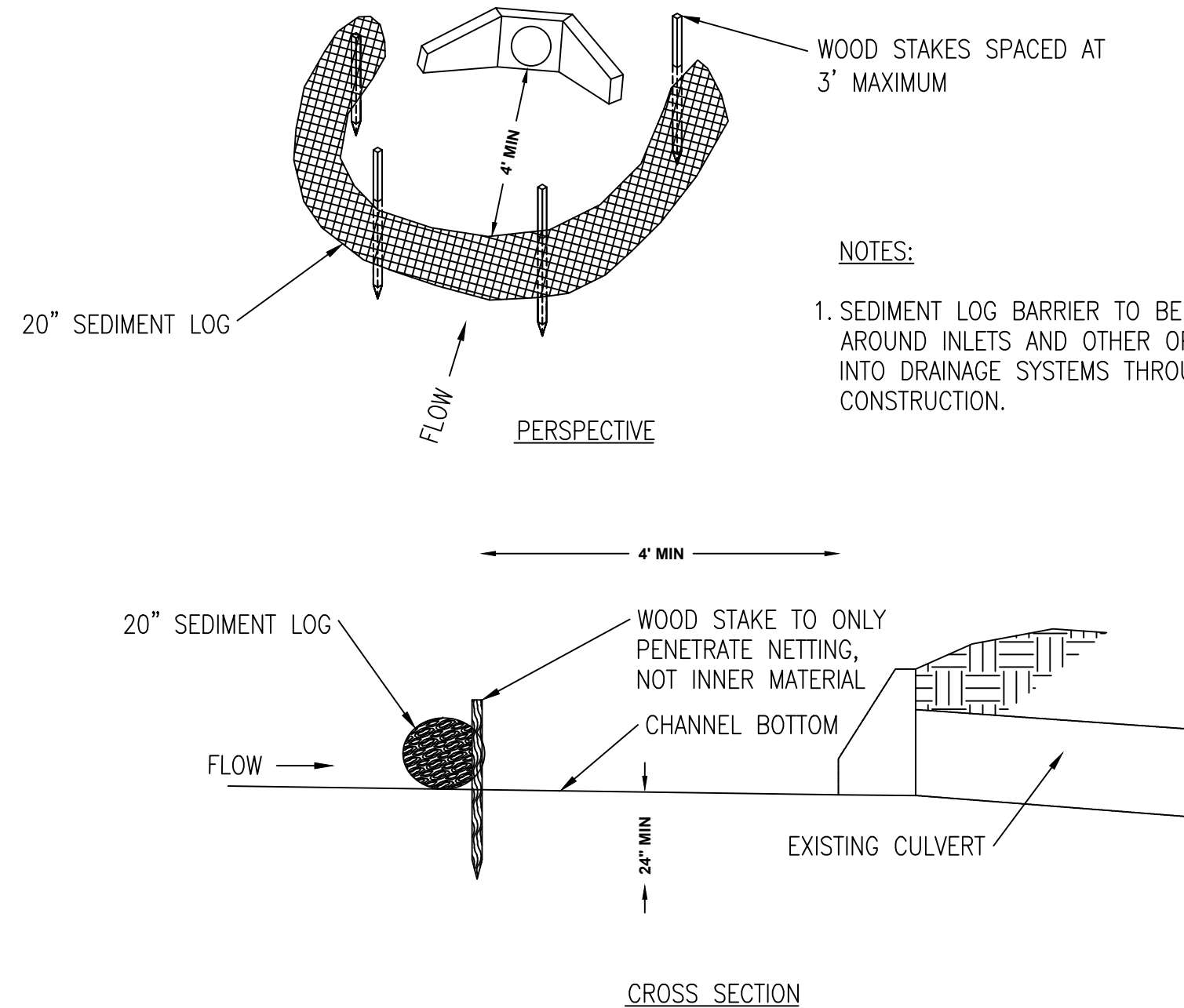
1 TEMPORARY CONSTRUCTION EXIT
SCALE: NOT TO SCALE



2 SEDIMENT LOG DITCH CHECK
SCALE: NOT TO SCALE



3 SEDIMENT LOG INLET PROTECTION
SCALE: NOT TO SCALE



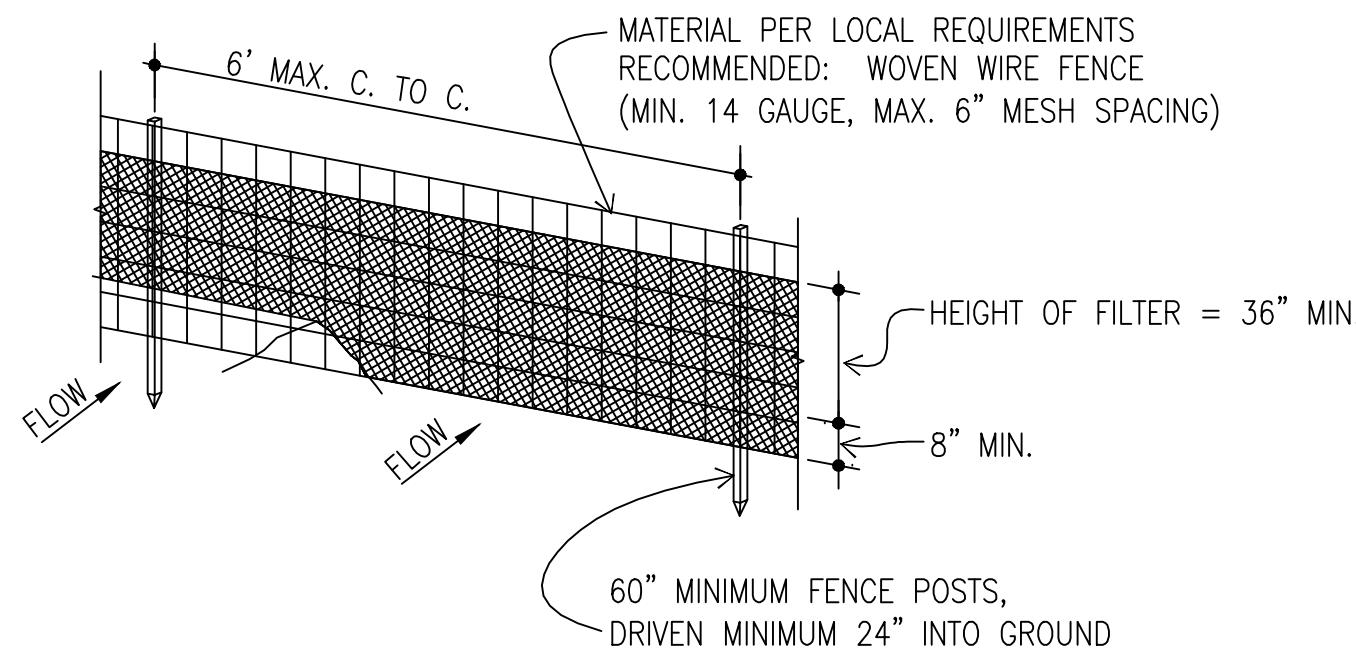
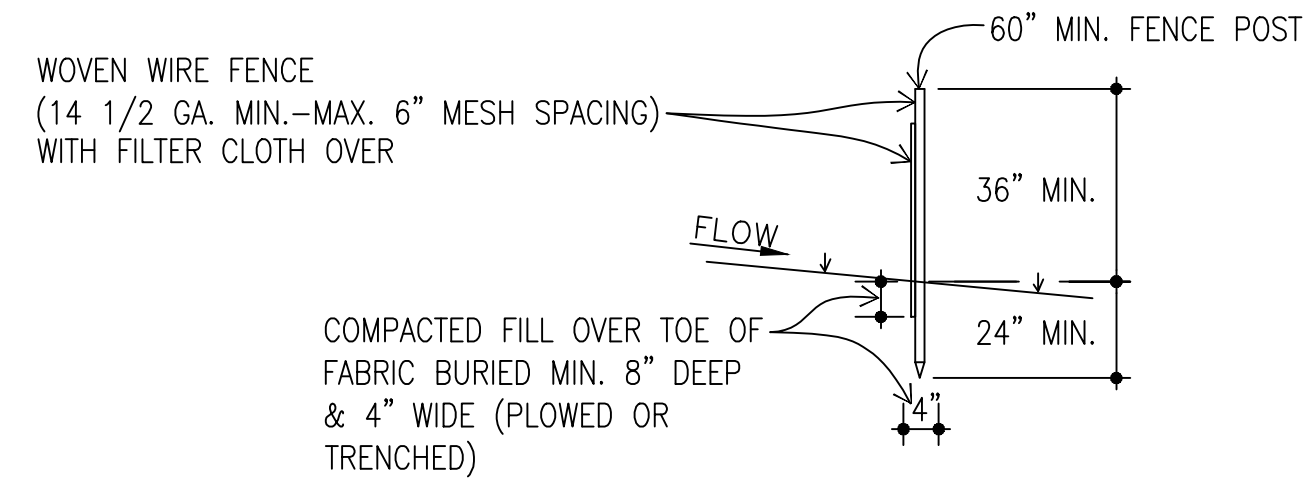
4 SEDIMENT LOG CULVERT SEDIMENT BARRIER
SCALE: NOT TO SCALE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO SILT FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY (6) INCHES AND FOLDED.
- LOCATE POSTS DOWNSLOPE OF FABRIC FOR FENCE SUPPORT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER "T" OR "U" TYPE
POSTS: LOCATED MAXIMUM 6' O. C.
FENCE: PER LOCAL REQUIREMENTS OR WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINKA T140N OR APPROVED EQUAL.
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

- INDICATED ON EROSION CONTROL PLANS AS " —SF— "



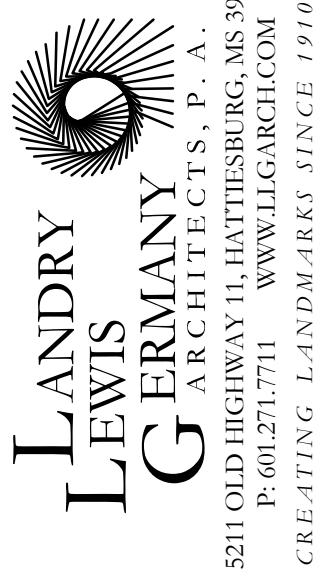
7 SILT FENCE EROSION PROTECTION
SCALE: NOT TO SCALE

- ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED, FERTILIZED, MULCHED AND/OR SODDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
- SILT FENCES AND HAY BALES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND/OR HAY BALES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES, OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NEEDED OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) OFFICE OF POLLUTION CONTROL (OPC) STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) OFFICE OF POLLUTION CONTROL (OPC) STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES.
- PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS, DITCHES, WETLANDS, ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEOTEXTILE FABRIC PROTECTION OF STORM SEWERS, HAY BALES, DIKES AND SANDBAG BERMS; AND/OR VEGETATION CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE).
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS.

5 EROSION CONTROL NOTES
SCALE: NOT TO SCALE

- CONTRACTOR SHALL PERFORM DAILY STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF DIRT AND MUD IS NOT ADEQUATELY REMOVED FROM VEHICLES AT THE STABILIZED CONSTRUCTION EXITS.
- LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORMWATER CONVEYANCE SYSTEMS. USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND FUEL STORAGE AREAS.
- CONTRACTOR WILL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING, OF ANY FUEL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS.
- CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
- CONTRACTOR SHALL INSPECT ALL STRUCTURAL CONTROLS WITHIN 24 HOURS AFTER ANY STORM EVENT THAT MEETS OR EXCEEDS 0.5 INCHES OF RAINFALL IN A 24 HOUR PERIOD. DURING PROLONGED RAINFALL EVENTS, CONTRACTOR SHALL INSPECT STRUCTURAL CONTROLS ON A DAILY BASIS. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED ONCE EVERY 14 CALENDAR DAYS. A QUALIFIED REPRESENTATIVE OF THE CONTRACTOR, AS APPROVED BY THE OWNER, SHALL PROVIDE THESE INSPECTIONS. SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS. REMOVE ALL SEDIMENT IF IT ACCUMULATES TO 1/3 THE HEIGHT OF THE SILT FENCE.
- CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT, NO SEPARATE PAY.
- CONTRACTOR WILL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
- EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.
- AT COMPLETION OF THE CONTRACT, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE EROSION AND SEDIMENTATION CONTROL SYSTEMS BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.
- CONTRACTOR SHALL SOLID SOD DISTURBED AREAS IMMEDIATELY AFTER REACHING FINAL GRADE.

DRAWN	
JCR	
CHECKED	
JCA	
FINAL DATE	
JUNE 30, 2023	
REVISION SCHEDULE	
REV #	REV DATE



SHEET TITLE
EROSION CONTROL DETAILS

PROJECT
PETAL ELEMENTARY SCHOOL

NOT FOR CONSTRUCTION

PETAL SCHOOL DISTRICT
PETAL, MISSISSIPPI

FOR REVIEW
PURPOSES
ONLY

CN 22-3904B
SHEET NUMBER

C7.1