



SC DEPARTMENT of  
**ENVIRONMENTAL  
SERVICES**

Division of Mining & Solid Waste Management  
Mining & Reclamation Program  
2600 Bull Street  
Columbia, S.C. 29210

July 14, 2026

Heidelberg Materials Southeast Agg, LLC  
Attn: Kaylee Jones  
217 Cedar Rd  
Lexington, SC 29073  
kaylee.jones@heidelbergmaterials.com

SENT BY CERTIFIED MAIL  
9214 8969 0099 9790 1428 2318 20  
RETURN RECEIPT REQUESTED  
AND BY ELECTRONIC MAIL

Re: Approval of Application and Reclamation Plan for a Mine Operating Permit  
Issuance of an Individual Mine Operating Permit  
Mine Permit #I-002444 | Manning Quarry | Richland County

Dear Dr. Jones:

The S.C. Department of Environmental Services (SCDES) has approved the application and reclamation plan for the Manning Quarry as of the date of this letter. SCDES has received the reclamation bond submitted in the amount of \$1,369,600.00.

With the receipt of the reclamation bond and the approval of the application and reclamation plan, this letter serves as official notification that the Individual Mine Operating Permit for the Manning Quarry is being issued as of the date of this letter. Enclosed are the permit document, reclamation plan, mine maps, and reclamation maps.

Should there be any questions or if we may be of further assistance, please do not hesitate to contact the project manager and inspector, Colby Myers, at 803-898-3079 or by e-mail at Colby.Myers@des.sc.gov.

Respectfully,

A handwritten signature in blue ink that reads "Jeremy E. Eddy".

Jeremy E. Eddy, P.G.  
Manager, Mining & Reclamation Program

Cc: Colby Myers, Brett Caswell, Darren Conn (MSHA) Leonardo Brown (Richland County).  
Encl: Permit document, reclamation plan, and maps.







SC DEPARTMENT of  
**ENVIRONMENTAL  
SERVICES**

**INDIVIDUAL MINE  
OPERATING PERMIT**

**Manning Quarry  
Heidelberg Materials Southeast Agg, LLC**

Heidelberg Materials Southeast Agg, LLC, a corporation, has been granted a Mine Operating Permit, Mine Permit Number I-002444, to operate the Manning Quarry in accordance with this Permit, the approved Reclamation Plan, the S.C. Mining Act (S.C. Code Sections 48-20-10 *et seq.*, 1976), and Regulations 89-10 *et seq.* The operator shall conduct this operation as represented in documents submitted to support the issuance of this permit.

---

JEREMY E. EDDY, P.G.  
MANAGER - MINING AND RECLAMATION PROGRAM  
DIVISION OF MINING AND SOLID WASTE MANAGEMENT

**PERMIT NUMBER:** I-002444  
**ORIGINALLY ISSUED:** July 14, 2026  
**MODIFIED:** N/A



## Part I: GENERAL INFORMATION

In accordance with Section 48-20-60 of the South Carolina Mining Act, this Mine Operating Permit will remain valid unless it terminates as set forth in R.89-270 or is revoked in accordance with Section 48-20-160 and R.89-280. The anticipated mining completion date is shown on the *Schedule for Conservation and Reclamation Practices* in the *Reclamation Plan*.

The approved *Permit Application*, *Reclamation Plan*, and all supplemental information referenced herein, are an integral part of this permit. *Land Entry Agreements and Mine Maps* as identified in Part II and Part V, respectively, are also a part of this permit.

## CONTACT INFORMATION:

**Home Office Address:** Heidelberg Materials Southeast Agg, LLC  
217 Cedar Rd  
Lexington, SC 29073

**Local Office Address:** Heidelberg Materials Southeast Agg, LLC  
217 Cedar Rd  
Lexington, SC 29073

**Address for Official Mail:** Same as Home Office Address

**Company personnel and title to be the contact for official business and correspondence [South Carolina Department of Environmental Services (SCDES) should be notified in writing immediately of any change in contact, address, telephone or e-mail]:**

|                            |                                             |
|----------------------------|---------------------------------------------|
| Kaylee Jones               | Telephone: 864-308-7850                     |
| Environmental Professional | Email: kaylee.jones@heidelbergmaterials.com |

**LOCATION:** The mine is located on the Columbia North, SC U.S.G.S. 7.5' Topographic Map. The approximate geographic coordinates for the site are:

Latitude: 34.089 Longitude: -81.080

**LOCATION DESCRIPTION:** The operation is located in Richland County, approximately 3 mile(s) north-northwest of Columbia, S.C. Specifically, the site is located 0.4 miles west of the intersection of SC Primary highway 215 (Monticello Road) and Frost Mill Road. The site's established address is 7955 Monticello Road, Columbia, S.C. 29203.

## Part II: PERMITTED LAND

This permit allows Heidelberg Materials Southeast Agg, LLC, also referred to as the operator, to conduct mining operations within the permitted land as defined through the *Land Entry Agreement* submitted as part of the application. Permitted land as defined by Section 48-20-40(18) is "the affected land in addition to (a) lands identified for future mining to become affected land; (b) and undisturbed or buffer area that is or may become adjacent to the affected land." Therefore, this permit grants the operator the right to conduct active mining operations within the specified affected land, delineate land for future mine areas as future reserves, and to establish undisturbed buffer zones to mitigate any adverse effects to the surrounding environment.

**AFFECTED LAND:** 144.5 acres of land are to be affected by Heidelberg Materials Southeast Agg, LLC under the current mine plan; 144.5 of the affected acres are currently bonded. The affected acres are derived from the operator's response in the *Application for a Mine Operating Permit* and are shown on the approved mine map(s).

**FUTURE RESERVES:** 0.0 acres are identified as future reserves and are specified on the mine site map. Prior to the initiation of activity in future reserves, the operator shall submit detailed mine and reclamation plans to SCDES for approval.

**BUFFER AREAS:** 97.4 acres are identified as buffer area, setbacks, or areas that will not be disturbed beyond the pre-mine natural state. These buffer areas are identified on the mine site map. Acres designated as buffer areas are not bonded under the reclamation bond. Any activity within the buffer areas (e.g. removal of timber) shall require **prior** notification and approval by SCDES.

**TOTAL PERMITTED AREA:** 241.9 acres as submitted on the *Land Entry Agreement(s)*.

**LAND ENTRY AGREEMENTS:** The operator is required to furnish and maintain up-to-date *Land Entry Agreements* on all lands covered under this permit. Any change in ownership on any portion of land covered by this permit, the operator is responsible for furnishing the appropriate and completed *Land Entry Agreements* (Forms MR-600 or MR-700) to SCDES within 30 days of the change of ownership.

Land Owner(s) as Listed on *Land Entry Agreement(s)*:

TMS #: R07700-01-05, Heidelberg Materials Southeast Agg, LLC

Total acres of the contiguous tract(s) of land for which the permit is granted:

|       |              |        |            |       |              |
|-------|--------------|--------|------------|-------|--------------|
| OWNED | <u>241.9</u> | LEASED | <u>0.0</u> | TOTAL | <u>241.9</u> |
|-------|--------------|--------|------------|-------|--------------|

### **Part III: FINANCIAL ASSURANCE FOR RECLAMATION**

The financial assurance for reclamation is based upon the total affected acres. Pursuant to Section 48-20-70 and R.89-200, the financial assurance for this mining permit is set at \$1,369,600.00. The financial assurance shall remain in force and continuous throughout the life of the mining operation and shall only be released, partially or in full, back to the operator after the operator has completed reclamation in accordance with the approved *Reclamation Plan* and the minimum standards in R.89-330.

### **Part IV: MINE OPERATIONS**

Heidelberg Materials Southeast Agg, LLC is permitted to mine granite at the Manning Quarry. The maximum depth to the pit floor shall not exceed +50 feet mean sea level (to an approximate depth of 150 feet below ground surface as measured from the lowest ground surface elevation). Mining will take place on a tract of land owned by the referenced operator. This tract of land is identified in the submitted *Land Entry Agreement* (LEA).

#### **MINE/PIT CHARACTERIZATION:**

The granite will be excavated, processed, and stockpiled on site. Ground clearing will be accomplished by bulldozer. Removed overburden shall be placed in permanent storage areas at locations designated on the mine map. The exposed granite will be drilled, explosives loaded, and blasted to fragment stone into manageable sizes to facilitate loading in haul trucks and crushing by the primary crusher. Stone passing through the primary crusher will be transported to the processing plant by trucks for further processing.

#### **PROCESSING PLANT LOCATED ON MINE SITE:**

The processing plant will consist of primary and secondary crushers, screens, conveyors, and loading and hauling machines. Waste screenings and other fines from crushing, washing, and screening the crushed stone will be stockpiled around the plant site or placed in overburden storage areas.

#### MINE DEWATERING:

Due to groundwater seepage from natural fractures/joints in the host rock, quarry dewatering will be necessary when the pit floor extends below the water table. Additionally, where feasible, stormwater runoff shall be diverted into the pit, collected into the sump, and discharged in the same manner as groundwater. Any accumulation of groundwater and stormwater shall be pumped into a sediment basin prior to discharge. Water discharged from the mine to a receiving stream must be discharged through an outfall regulated by an NPDES permit.

If an operator receives a complaint concerning adverse impacts to neighboring wells, the operator is to notify SCDES's Manager of the Mining and Reclamation Section, Columbia, SC, within 24 hours. After investigation, if SCDES determines dewatering activities at the mine are affecting a drinking water well or water supply well, the operator shall be responsible for repairing, deepening, or re-drilling such wells. Until that permanent water supply is re-established, the operator shall supply the owner with a temporary water supply (e.g., bottled water for drinking, provisions for laundry).

Active pumping and discharge of water shall cease if the dewatering discharge causes flooding conditions to property downstream of the mine site.

#### BLASTING:

Blasting is permitted at this site. Blasting activities shall be conducted in accordance with R.89-150.

Pursuant to R.89-150A., the operator shall conduct a pre-blast survey on inhabited structures within one-half mile of any blasting, prior to the commencement of any blasting activities. The survey shall be completed by a third-party consultant and a copy of the report sent to SCDES, the operator, and the landowner. Upon review and approval, SCDES will then grant permission to begin blasting activities.

Pursuant to R.89-150J., the operator shall report any suspected incident of flyrock outside of the permitted area resulting from blasting operations. Pursuant to R.89-150E., the operator shall report if the peak particle velocity exceeds one (1.0) inch per second at the immediate location of any dwelling not owned by the operator (or where a waiver of damage has been submitted to SCDES). These incidents shall be reported to SCDES within 24 hours of the blast, and a written report shall be submitted to SCDES within five (5) business days.

Pursuant to R.89-150H., the operator shall maintain a minimum distance of 250 feet from contiguous property boundaries when conducting blasting. Additionally, pursuant to R.89-150I., the operator shall maintain a minimum 1,400 ft distance as shown on the approved mine map between the nearest point of blasting and any structures not owned by the operator or where a waiver of damage has been submitted to SCDES.

#### NOISE MONITORING AND CONTROL:

The operator shall use Best Management Practices (BMPs) to minimize noise from the mine site. These noise BMPs shall include, at a minimum, proper maintenance of mufflers on equipment (trucks, trackhoes, pumps, etc.) and consideration of special buffering measures if planning to operate equipment during nighttime hours.

#### OTHER STATE OR FEDERAL PERMITS:

The operator must obtain, maintain, and update, as appropriate, all necessary State and Federal permits in order to construct and operate the mine.

### **Part V: MAPS**

The mine site maps were prepared by Caliber Engineering Consultants, LLC. These maps are further identified with the following SCDES map numbers and are part of the operating permit:

|              |                 |                     |
|--------------|-----------------|---------------------|
| SM-2444-1V1  | Site Map        | Dated: May 27, 2025 |
| SM-2444-2V1  | Mine Map        | Dated: May 27, 2025 |
| ESC-2444-1v1 | E&SC Plan Pg. 1 | Dated: May 27, 2025 |
| ESC-2444-2v1 | E&SC Plan Pg. 2 | Dated: May 27, 2025 |

|              |                 |                     |
|--------------|-----------------|---------------------|
| ESC-2444-3v1 | E&SC Plan Pg. 3 | Dated: May 27, 2025 |
| ESC-2444-4v1 | E&SC Plan Pg. 4 | Dated: May 27, 2025 |
| ESC-2444-5v1 | E&SC Plan Pg. 5 | Dated: May 27, 2025 |
| ESC-2444-6v1 | E&SC Plan Pg. 6 | Dated: May 27, 2025 |
| ESC-2444-7V1 | E&SC Plan Pg. 7 | Dated: May 24, 2025 |

The reclamation map was prepared by Caliber Engineering Consultants, LLC. This map is further identified with the following SCDES map number and is part of the operating permit:

|             |                 |                     |
|-------------|-----------------|---------------------|
| RM-2444-1V1 | Reclamation Map | Dated: May 27, 2025 |
|-------------|-----------------|---------------------|

## **Part VI: PROTECTION OF NATURAL RESOURCES**

### MINE SITE AND SURROUNDING AREA:

Prior to mining activities, this site's land use type was a shale mine (I-000538) and undeveloped; the immediate area around this site is rural and undeveloped. The topography of this area is moderately variable (i.e., several hills and dales), with surface elevation ranging from 200 - 400 ft. MSL. Columbia International University and Ben Lippen School are neighboring the site to the southeast.

### PUBLIC SAFETY:

A gate shall be installed at the entrance to the mine site and kept locked during inactive periods. *Warning* and/or *Danger* signs shall be posted around the perimeter of the property. At a minimum, the operator shall construct and maintain a woven wire, barbed wire, or chain linked fence, as described in R.89-140(3), around the perimeter of the pit area. In the future, if determined to be necessary by SCDES, the operator shall upgrade the fence as directed by R.89-140(2).

Operator shall use BMPs to prevent accumulation of sediment/soil on public roads carried by trucks and other vehicles exiting the mine site; any accumulations shall be removed by the operator on a daily basis or more frequently if needed. To reduce the potential of trackout on public roads, the operator shall construct a paved road that extends the width of the haul road and stretches a minimum of one hundred (100) feet in length.

The operator shall establish a protected area or establish procedures to minimize fuel spillage or incidental spillage of other petroleum products during storage, refueling of equipment or in the performance of routine maintenance on equipment. Contaminated materials resulting from contact with petroleum products shall be removed from the site and disposed of properly to prevent contamination to ground and surface water resources.

To maintain stable mine walls, the unconsolidated saprolite shall be sloped to a stable configuration no steeper than 2H:1V during active mining. Per the Mine Safety Health Administration (MSHA) requirements, the hard rock pit walls shall be benched to maintain stability and provide safety. During times of inactivity or for final reclamation, unconsolidated material shall be sloped no steeper than 3H:1V.

### PUBLICLY-OWNED PARKS, FORESTS, OR RECREATION AREAS:

Harbison State Forest is approximately 1 mile northwest of the mine site. The Broad River is located between the permit boundary and Harbison State Forest.

### WETLANDS AND SURFACE WATER AREAS:

Burgess Creek is located approximately 50 ft. northwest of the mine site and runs into the Broad River, which is directly west of the site.

The operator shall maintain a minimum 50ft. undisturbed buffer between all land disturbance activity and any streams and USACE jurisdictional wetlands, as shown on the mine map. This buffer shall be permanently flagged prior to the initiation of any mine activity. The flags shall be maintained throughout the active mine operation of the site. The operator is allowed to discharge accumulated stormwater—that meets NPDES permit limits—into wetlands through a regulated NPDES outfall.

The operator shall comply with the NPDES General Permit for Non-metallic Mineral Mining and Stormwater Pollution Prevention Plan developed for the mine.

**SIGNIFICANT CULTURAL OR HISTORICAL SITES:**

A study, titled *Cultural Resources Survey of the North Columbia Shale Mine, Richland County, South Carolina*, was conducted in 2016. No significant cultural or historical sites have been identified.

If archaeological materials are encountered prior to or during the construction of mine facilities or during mining, the S.C. Department of Archives and History and SCDES should be notified immediately. Archaeological materials consist of any items, fifty years or older, which were made or used by humans. These items include, but are not limited to, stone projectile points (arrowheads), ceramic sherds, bricks, oyster shell, worked wood, bone and stone, metal and glass objects, human skeletal remains, and concentrations of charcoal and stones below the ground surface. These materials may be present on the ground surface and/or under the surface of the ground.

**WILDLIFE:**

Common wildlife typical to this area can be found in and around this site; there are no threatened or endangered species believed to inhabit this area.

**VISUAL SCREEN:**

To appropriately screen the operation from view, the operator shall maintain a minimum 50ft. undisturbed buffer between mining activity and all adjacent property lines not owned by the operator, as shown on the mine map. A vegetated earthen berm or brush barrier shall be constructed and maintained on the mine side of this undisturbed buffer.

**ACID WATER GENERATION:**

Acid water is not anticipated to be generated from the oxidation of existing minerals currently found on this site.

**AIR QUALITY:**

The mine operator will use appropriate measures (e.g. water truck, dust suppressants) to control fugitive dust created by moving equipment along haul roads. The operator, where feasible, shall establish vegetation in non-active mine areas barren of vegetation to stabilize the soil and reduce potential for wind erosion and dust emissions.

**Part VII: STANDARD CONDITIONS OF MINE OPERATING PERMIT**

**SURVEY MONUMENTS:**

In accordance to R.89-130, the operator shall install and maintain the two required permanent survey monuments, or control points, within the permitted area as shown on the mine site map. At the discretion of SCDES, the operator may be required to mark the area to be affected with flagging or other appropriate measures.

**RIGHT OF ENTRY:**

Pursuant to Section 48-20-130 and R.89-240, the operator shall grant SCDES and/or duly appointed representatives access to the permitted area for inspection to determine whether the operator has complied with the reclamation plan, the requirements of this chapter, rules and regulations promulgated hereunder, and any terms and conditions of this permit.

**RECORDS RETENTION:**

All records are to be maintained through additional terms and conditions of this permit or by regulations. Records shall be kept on site or at the office identified for receipt of official mail and open for inspection during normal business hours. The records shall be maintained for a minimum of three (3) years or as specified by SCDES. The operator shall furnish copies of the records upon request to SCDES.

#### PERMIT MODIFICATIONS:

Pursuant to Section 48-20-80, the operator may modify the permit and/or *Reclamation Plan* upon approval by SCDES. Requests for permit and/or *Reclamation Plan* modifications may be made to SCDES on Form MR-1300. The operator shall submit any requested supporting data for consideration during SCDES's evaluation of the modification request. If a modification request is determined to be substantial by SCDES, the modification request will be public noticed pursuant to R.89-100 and a modification fee will be required as specified in R.89-340. If SCDES determines activities proposed under the *Reclamation Plan* and other terms and conditions of the permit are failing to achieve the purpose and requirements of the S.C. Mining Act and Regulations, SCDES shall notify the operator of its intentions to modify the permit and/or *Reclamation Plan* pursuant to Section 48-20-150.

#### TRANSFER OF PERMIT:

Pursuant to Section 48-20-70, this permit may be transferred to another responsible party. The transfer of the permit must be conducted in accordance with R.89-230. The transferor of the permit will remain liable for all reclamation obligations until all required documents, plans, and the replacement reclamation bond have been submitted and approved by SCDES. The transfer will be considered complete when all parties have received notification by certified letters of the approval of the transfer by SCDES.

#### DURATION OF MINE OPERATING PERMIT:

In accordance with Section 48-20-60, this Mine Operating Permit will remain valid unless this permit terminates as set forth in R.89-270 or is revoked in accordance with Section 48-20-160 and R.89-280. The proposed anticipated mining completion date is shown on the *Schedule for Conservation and Reclamation Practices* in the *Reclamation Plan*.

Pursuant to R.89-80(B), the operator shall conduct reclamation simultaneously with mining whenever feasible. Reclamation shall be initiated at the earliest practicable time, but no later than 180 days following termination of mining of any segment of the mine, and shall be completed within two years after completion or termination of mining on any segment of the mine.

### **Part VIII: ENFORCEMENT ACTIONS**

Pursuant to Section 48-20-30 of the S.C. Mining Act, "SCDES has ultimate authority, subject to the appeal provisions of this chapter, over all mining, as defined in this chapter, and the provisions of the chapter regulating and controlling such activity." This allows SCDES to assist, cooperate with, or supersede other State agencies in taking enforcement action on violations of the State Regulations or violations of the S.C. Mining Act to ensure the purposes of this Act are enforced.

The operator shall comply at all times with all conditions of this mine operating permit. Non-compliance with this mining permit, statute, or regulations could lead to permit revocation and bond forfeiture pursuant to Sections 48-20-160 and 48-20-170 or other enforcement action allowed by law.

Compliance with the Mine Operating Permit requires the operator to conduct the mining operation as described in the approved *Application for a Mine Operating Permit*. Variance from the *Application for a Mine Operating Permit*, this permit, statute or regulation, without first receiving SCDES approval, shall be deemed non-compliance with the permit.

An operator or official representative of the mine operator who willfully violates the provisions of the S.C. Mining Act, rules and regulations, or willfully misrepresents any fact in any action taken pursuant to this chapter or willfully gives false information in any application or report required by this chapter shall be deemed guilty of a misdemeanor and, upon conviction, shall be fined not less than one hundred dollars nor more than one thousand dollars for each offense. Each day of continued violation after written notification shall be considered a separate offense.

The operator is responsible for all mining activity on the permitted mine site.

## **Part IX: REPORTS**

### ANNUAL RECLAMATION REPORTS:

The operator shall comply with Section 48-20-120 and Regulation 89-210 and submit an *Annual Reclamation Report* on Form MR-1100 as supplied by SCDES. The form for the report will be made available to the operator electronically. The operator should receive access to the report form from SCDES by July 1 of each year; however, the operator is ultimately responsible for obtaining the *Annual Reclamation Report* form and is not excused from penalty fees for failure to submit the report on time.

The Annual Operating Fee is a part of the *Annual Reclamation Report*. Failure to submit a complete *Annual Reclamation Report* and fee, in accordance with Section 48-20-120 and R.89-340, will result in a late penalty payment. The *Annual Reclamation Report* and Annual Operating Fee are required if there is any permitted land not fully reclaimed and released by SCDES by June 30 of each year.

### SPECIAL REPORTS:

SCDES may at any time request information, data, or explanations from the operator as to conditions relating to the permitted mine site. Such requests from SCDES shall be made in writing to the operator with an appropriate time frame stated for the submittal of the requested information to SCDES. The operator must produce the information requested within the timeframe specified by SCDES.

## **Part X: ADDITIONAL TERMS AND CONDITIONS**

1. Temporary or permanent placement of refuse and debris (e.g., concrete, brick, asphalt) from off-site locations is prohibited without approval by SCDES. Topsoil fill approved by SCDES may be brought in from off-site sources only for the purposes of mine land reclamation.



## APPENDIX A

### MODIFICATIONS TO MINE PERMIT I-002444

| NUMBER | DATE    | <b>DESCRIPTION OF MODIFICATION</b><br>(PA= Permitted Acreage; AA= Affected, Bonded Acreage; FR= Reserves Acreage, B= Buffer Acreage) |
|--------|---------|--------------------------------------------------------------------------------------------------------------------------------------|
| Issued | 7/14/26 | PA = 241.9ac., AA = 144.5ac., FR = 0.0ac., B = 97.4ac.<br>Permit issued.                                                             |
|        |         |                                                                                                                                      |
|        |         |                                                                                                                                      |
|        |         |                                                                                                                                      |
|        |         |                                                                                                                                      |
|        |         |                                                                                                                                      |



# MR-500 Reclamation Plan for an Individual Mine Operating Permit

## Environmental Protection

---

### **Describe practices to protect adjacent resources such as roads, wildlife areas, woodland, cropland and others during mining and reclamation.**

Sufficient buffers will be maintained between the quarry and adjacent resources to ensure these resources are protected during the life of the mine. Sediment and erosion control features and BMPs will be used to protect adjacent resources.

### **Describe proposed methods to limit significant adverse effects on adjacent surface water and groundwater resources.**

Sufficient control, such as sediment and stormwater basins, silt fencing, diversion ditches and swales will be used to limit potential impacts to surface waters. Land disturbing activities will be kept to a minimum. All petroleum products will be maintained in secondary containment to minimize spillage. Any spill that occurs will be immediately cleaned up.

### **Describe method to prevent or eliminate conditions that could be hazardous to animal or fish life in or adjacent to the permitted area.**

The use of stormwater and sediment basins will reduce the potential for sediment getting into Burgess Creek or nearby wetlands, and thus adversely affecting wildlife. Limiting land disturbance activities and preservation of the creek buffers should minimize impacts on wildlife.

### **Describe how applicant will comply with State air quality and water quality standards as established by the South Carolina Department of Environmental Services.**

Heidelberg Materials will obtain and comply with the Nonmetallic Mineral General Air Permit. The permit will require control fugitive dust at the processing plant by use of wet suppression and use of water trucks to control dust from haul roads and stockpiles. Heidelberg Materials will obtain and comply with the NPDES General Permit for Discharges Associated with Nonmetallic Mineral Mining Facilities, SCG730000. Both stormwater and process water are routed through sediment/stormwater basins prior to discharge to provide adequate holding time for the sediment to settle.

## Reclamation of Affected Area

---

### **State useful purpose(s) the affected land is being proposed for reclamation.**

Grassland  
Lake or Pond  
Woodlands

### **Feasibility Documentation Attachment**

NONE PROVIDED

**Comment**

NONE PROVIDED

### **Will the final maximum surface gradient (slope) in soil, sand, or other unconsolidated materials be steeper than 3 Horizontal : 1 Vertical (18 degrees or 33 percent)?**

No

### **How will the final slopes in unconsolidated material be accomplished?**

Limit of excavation will be sloped to 3:1 and vegetated. Overburden disposal areas will be sloped 3:1 and permanent vegetation planted once the final face has been prepared and graded.

If the slope will be by backfilling, demonstrate that there is adequate material to accomplish the stated final gradient. If gradient is to be achieved by bringing in material from outside the permitted area, state the nature of the material and approximate quantities. If the gradient is to be achieved by grading, show that there is adequate area for grading to achieve gradient (i.e., adequate distance between the property line and edge of highwall).

**Final slopes calculations or other supporting information attachment(s)**

NONE PROVIDED

**Comment**

NONE PROVIDED

**Describe the plan for revegetation or other surface treatment of affected area(s). The revegetation plan shall include but not be limited to the following: (a) planned soil test; (b) site preparation and fertilization; (c) seed or plant selection; (d) rate of seeding or amount of planting per acre; (e) maintenance.**

Spring planting will be mixtures of Fescue, Bermuda, and Sericea. Fall planting will be a mixture of rye grain and Fescue. Additionally, areas may be identified for the planting of loblolly or long-leaf pine. Commercial lime and fertilizer will be used.

**Does the possibility exist for (a) acid rock drainage; (b) where the National Pollutant Discharge Elimination Systems (NPDES) Permit has discharge limitation parameters other than pH and Total Suspended Solids (TSS); (c) chemically treated tailings or stockpiles (excludes fertilizer or lime for revegetation purposes)?**

No

**Describe the methods to control contaminants and permanently dispose any mine waste. This includes any soil, rock (overburden), mineral, scrap, tailings, fines, slimes, or other material directly connected with the mining, cleaning, and preparation of mineral substances mined. It also includes all waste material deposited on or in the permit area from any source.**

All scrap metal will be recycled and disposed of off-site. All tailings and mine wastes are to be dipped from ponds, drained and disposed of in the overburden disposal areas.

**Describe the method of reclaiming settling and/or sediment ponds.**

The settling and sediment ponds will be drained, allowed to dry, re-contoured and vegetated with a mixture of grasses. The large pre-existing stormwater pond on site will remain as a pond.

**Describe the method of restoring or establishing stream channels, stream banks, and site drainage to a condition to minimize erosion, siltation, and other pollution.**

No stream channels or creeks are to be disturbed during mining. Any drains established during mining and reclamation will be grass lined or rip-rap lined depending on the slope. Use of check dams in drainage ditches will be made to minimize the potential for erosion and off-site sedimentation.

**What are the maintenance plans to insure that the reclamation practices established on the affected land will not deteriorate before released by the Department?**

Reclaimed areas will be inspected on a regular basis and should any areas require maintenance it will be performed according to the vegetation plan. Reclaimed areas will be set aside to ensure they are not used in normal course of business to prevent the reclaimed areas being damaged prior to release.

**For final reclamation, submit information about practices to provide for safety to persons and to adjoining property in all excavations. Identify areas of potential danger (vertical walls, unstable slopes, unstable surface on clay slimes, etc.) and provide appropriate safety provisions.**

Final reclamation of the pit will include the installation of a 6-ft high chain link fence (apx .3000 lf) around the perimeter. Warning signs will be posted at regular intervals in the fence. Locked gates will be maintained at the mine entrance. Buffers present during mining will be maintained during reclamation.

**What provisions will be taken to prevent noxious, odious, or foul pools of water from collecting and remaining on the mined area? For mines to be reclaimed as lakes or ponds, provide supporting information that a minimum water depth of four (4) feet on at least fifty percent (50%) of the pond surface area can be maintained.**

The pit is to be reclaimed as a lake. It will be prevented from becoming noxious and foul by the regular inflow of stormwater and groundwater into the pit.

**Identify any structures (e.g. buildings, roads) that are proposed to remain as part of final reclamation. Provide justification for leaving any structures.**

The entrance road (for site access) will remain. All petroleum storage tanks will be removed unless requested by post-mine owner.



**Attach a copy of a map of the area (referred to as the RECLAMATION MAP) that shows the reclamation practices and conservation practices to be implemented. The following should be shown (A through P - see below):**

Reclamation Map.pdf - 07/07/2025 04:37 PM

**Comment**

NONE PROVIDED

- A. The outline of the proposed final limits of the excavation during the number of years for which the permit is requested.
- B. The approximate final surface gradient(s) and contour(s) of the area to be reclaimed. This would include the sides and bottoms of mines reclaimed ponds and lakes.
- C. The outline of the tailings disposal area.
- D. The outline of disposal areas for spoil and refuse (exclusive of tailings ponds).
- E. The approximate location of the mean shore line of any impoundment or water body and inlet and/or outlet structures which will remain upon final reclamation.
- F. The approximate locations of access roads, haul roads, ramps or buildings which will remain upon final reclamation.
- G. The approximate locations of various vegetative treatments.
- H. The proposed locations of re-established streams, ditches or drainage channels to provide for site drainage.
- I. The proposed locations of diversions, terraces, silt fences, brush barriers or other Best Management Practices to be used for preventing or controlling erosion and off-site siltation.
- J. Proposed locations of the measures to provide safety to persons and adjoining property.
- K. Segments of the mine that can be mined and reclaimed as an ongoing basis.
- L. The boundaries of the permitted area.
- M. The boundaries of the affected area for the anticipated life of the mine.
- N. The boundaries of the 100-year floodplain, where appropriate.
- O. Identify sections of mine where the final surface gradient will be achieved by grading and/or backfilling.
- P. A legend showing the name of the applicant, the name of the proposed mine, the north arrow, the county, the scale, the date of preparation and the name and title of the person who prepared the map.

THE REQUIRED RECLAMATION MAP SHALL HAVE A NEAT, LEGIBLE APPEARANCE AND BE OF SUFFICIENT SCALE TO CLEARLY SHOW THE REQUIRED INFORMATION LISTED ABOVE. THE BASE FOR THE MAP SHALL BE EITHER A SPECIALLY PREPARED LINE DRAWING, AERIAL PHOTOGRAPH, ENLARGED USGS TOPOGRAPHIC MAP OR A RECENTLY PREPARED PLAT. RECLAMATION MAP SHOULD BE THE SAME SCALE USED FOR THE SITE MAP.

## Schedule for Implementation of Conservation and Reclamation Practices

As stated in Section 48-20-90 of the S.C. Mining Act, reclamation activities, to the extent feasible, must be conducted simultaneously with mining operations. Identify which areas or segments of the mine are not feasible to reclaim simultaneously with mining. Provide reasons why reclamation can not proceed simultaneously with mining in these areas.

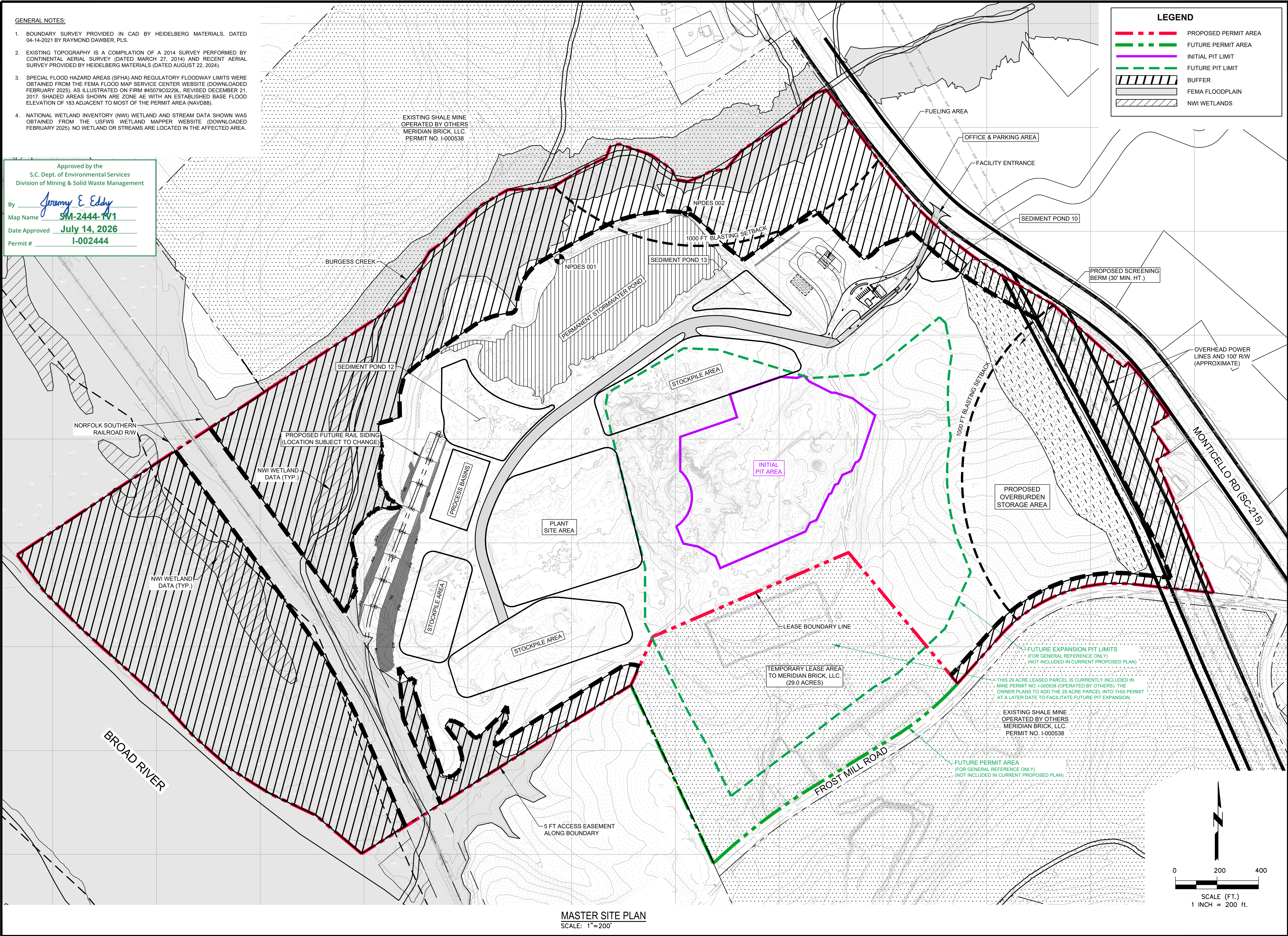
Overburden disposal areas will be reclaimed as the final slopes are developed. Once the ultimate pit limits of the quarry have been reached it will be possible to perform final reclamation on the unconsolidated overburden.

### Schedule for Implementing Conservation and Reclamation Practices

| Conservation & Reclamation Practices   | Segment # or Area | Planned Amount | Planned Year | *Applied Amount | *Applied Year | Notes         |
|----------------------------------------|-------------------|----------------|--------------|-----------------|---------------|---------------|
| Revegetate Overburden Area             | NONE PROVIDED     | 289950         | 2040         |                 |               | NONE PROVIDED |
| Mining Activities End                  | NONE PROVIDED     | NONE PROVIDED  | 2100         |                 |               | NONE PROVIDED |
| Remove office, scales, plant, lab      | NONE PROVIDED     | 294085         | 2101         |                 |               | NONE PROVIDED |
| Re-slope pit edge                      | NONE PROVIDED     | 254556         | 2101         |                 |               | NONE PROVIDED |
| Pit Area Perimeter Fence               | NONE PROVIDED     | 100825         | 2101         |                 |               | NONE PROVIDED |
| Revegetate office, scales, plant areas | NONE PROVIDED     | 6315           | 2102         |                 |               | NONE PROVIDED |
| Pit fills in as a lake                 | NONE PROVIDED     | NONE PROVIDED  | 2100-2105    |                 |               | NONE PROVIDED |

\*Applied fields to be completed by department





THIS COPYRIGHTED DOCUMENT IS AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED, OR REUSED IN PART OR IN WHOLE WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. ALL RIGHTS RESERVED

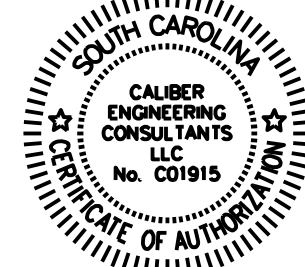
PERMITEE / OPERATOR:



**HEIDELBERG MATERIALS**  
**SOUTHEAST AGG, LLC.**

217 CEDAR ROAD  
LEXINGTON, SC 29073

OWNER CONTACT:  
KAYLEE JONES, Ph.D.  
kaylee.jones@heidelbergmaterials.com  
864-308-7650



**MANNING QUARRY**

MINE PERMIT #I-002444

7955 MONTICELLO RD.  
COLUMBIA, SC 29203

TAX MAP NO. R07700-01-05

| DATE     | REV | DESCRIPTION             |
|----------|-----|-------------------------|
| 05-27-25 | A   | ISSUED FOR SCDES REVIEW |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |

PROJECT NO: 251-001  
CAD DWG:  
DRAWN BY: RCH  
CHECKED BY: GAJ

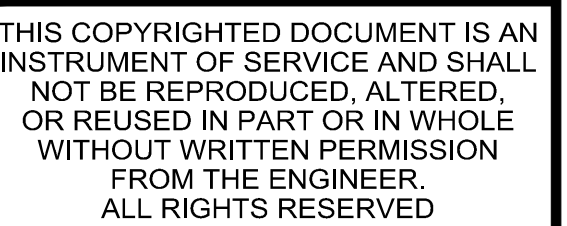
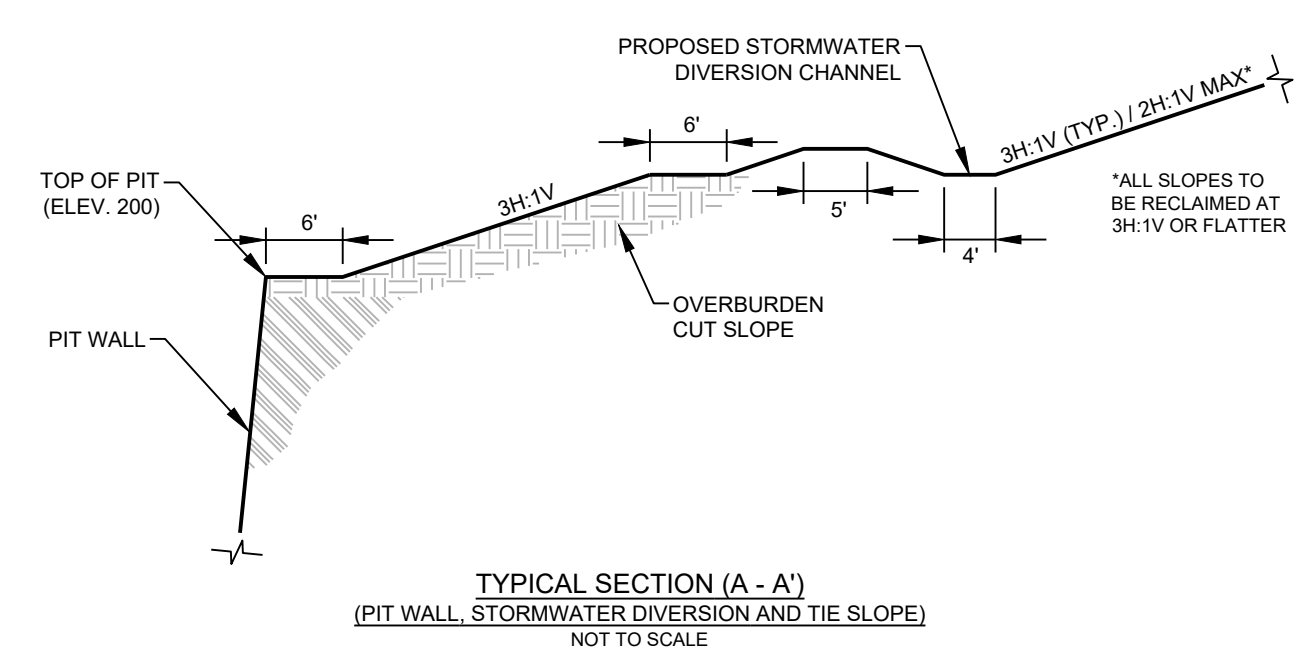
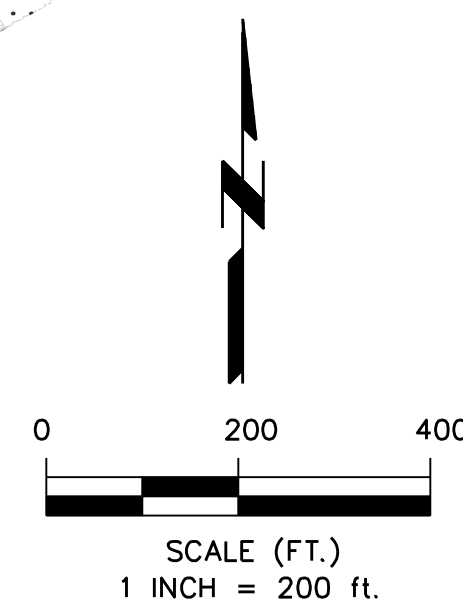
**MASTER  
SITE PLAN**



\*BUFFER AREA INCLUDES 5' EASEMENT CONNECTING NORTH & SOUTH LEASED AREAS (SEE PROPERTY SURVEY).  
 \*\*DOES NOT INCLUDE PROPOSED RAIL SIDING TO BE LOCATED IN THE AFFECTED AREA AS SHOWN.  
 -TOTAL AREA DOES NOT INCLUDE TEMPORARY 29 ACRE LEASE AREA TO MERIDIAN BRICK, LLC. AS SHOWN.

1. BOUNDARY SURVEY PROVIDED IN CAD BY HEIDELBERG MATERIALS, DATED 04-14-2021 BY RAYMOND DAWBER, PLS.
2. EXISTING TOPOGRAPHY IS A COMPILATION OF A 2014 SURVEY PERFORMED BY CONTINENTAL AERIAL SURVEY (DATED MARCH 27, 2014) AND RECENT AERIAL SURVEY PROVIDED BY HEIDELBERG MATERIALS (DATED AUGUST 22, 2024).
3. SPECIAL FLOOD HAZARD AREAS (SFHA) AND REGULATORY FLOODWAY LIMITS WERE OBTAINED FROM THE FEMA FLOOD MAP SERVICE CENTER WEBSITE (DOWNLOADED FEBRUARY 2025), AS ILLUSTRATED ON FIRM #450730C0223L, REVISED DECEMBER 21, 2017. SHADED AREAS SHOWN ARE ZONE AE WITH AN ESTABLISHED BASE FLOOD ELEVATION OF 183 ADJACENT TO MOST OF THE PERMIT AREA (NAV08).
4. NATIONAL WETLAND INVENTORY (NWI) WETLAND AND STREAM DATA SHOWN WAS OBTAINED FROM THE USFWS WETLAND MAPPER WEBSITE (DOWNLOADED FEBRUARY 2025). NO WETLAND OR STREAMS ARE LOCATED IN THE AFFECTED AREA.

By Jeremy E. Eddy  
Map Name SM-2444-2V1  
Date Approved July 14, 2026  
Permit # I-002444



**OWNER CONTACT:**  
KAYLEE JONES, Ph.D.  
kaylee.jones@heidbergmaterials.com  
864-308-7850



TAX MAP NO. R07700-01-05

|             |         |
|-------------|---------|
| PROJECT NO: | 251-001 |
| CAD DWG:    |         |
| DRAWN BY:   | RCH     |
| CHECKED BY: | GAJ     |

## C2.3



|                                                                                   |                                                   |
|-----------------------------------------------------------------------------------|---------------------------------------------------|
|  | PROPERTY LINE                                     |
|  | PLY LIMIT                                         |
|  | AFFECTED LAND                                     |
|  | CLAY STORAGE AREA                                 |
|  | BUFFER                                            |
|  | FEMA FLOODPLAIN                                   |
|  | NWI WETLANDS                                      |
|  | WETLANDS MAPPED BY<br>ECOLOGICAL ASSOCIATES, INC. |
|  | OVERHEAD POWER (OHP) LINES                        |
|  | OVERHEAD POWER RIGHT-OF-WAY                       |
|  | PROPOSED ACCESS ROAD                              |
|  | PROPOSED BRIDGE                                   |
|  | FENCE                                             |
|  | SILT FENCE                                        |
|  | RUNOFF TO PONDS FLOW DIRECTION                    |
|  | RUNOFF TO PONDS FLOW DIRECTION                    |
|  | STORMWATER OUTFALL                                |
|  | ROCK CHECK DAMS                                   |
|  | NPDES OUTFALL                                     |

| <u>DESCRIPTION</u> | <u>SYMBOL</u> |
|--------------------|---------------|
|--------------------|---------------|

**DESCRIPTION**

**EROSION PREVENTION**

LAND GRADING:

SURFACE ROUGHENING:

TOPSOILING:

TEMPORARY SEEDING:

MULCHING:

ECB OR TRM

FGM

BFM

PERMANENT SEEDING:

SODDING:

RIPRAP:

OUTLET PROTECTION

DUST CONTROL:

POLYACRYLAMIDE (PAM)

**RUNOFF CONVEYANCE MEASURES:**

TEMPORARY STREAM CROSSING:

TEMPORARY DIVERSION DITCH OR SWALE

PERMANENT DIVERSION DITCH:

DIVERSION DIKE OR BERM

LEVEL SPREADER:

SUBSURFACE DRAIN:

LC OR AM

●

TS

M

●

FGM

BFM

PS

SO

●

RipRap

ECB or TRM

DC

PAM

⇒TD⇒TD⇒⇒

⇒PD⇒PD⇒

⇒DB⇒DB⇒

⇒⇒⇒⇒

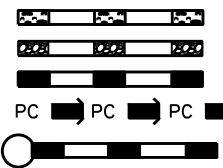
**DESCRIPTION**

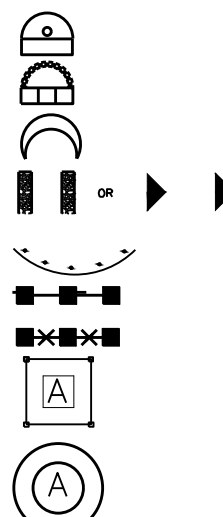
**RUNOFF CONVEYANCE STRUCTURES:**

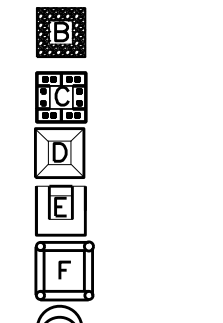
VEGETATED CHANNELS:  
RIPRAP-LINED CHANNELS:  
ECB OR TRM-LINED CHANNELS:  
PAVED CHANNELS:  
PIPE SLOPE DRAINS:

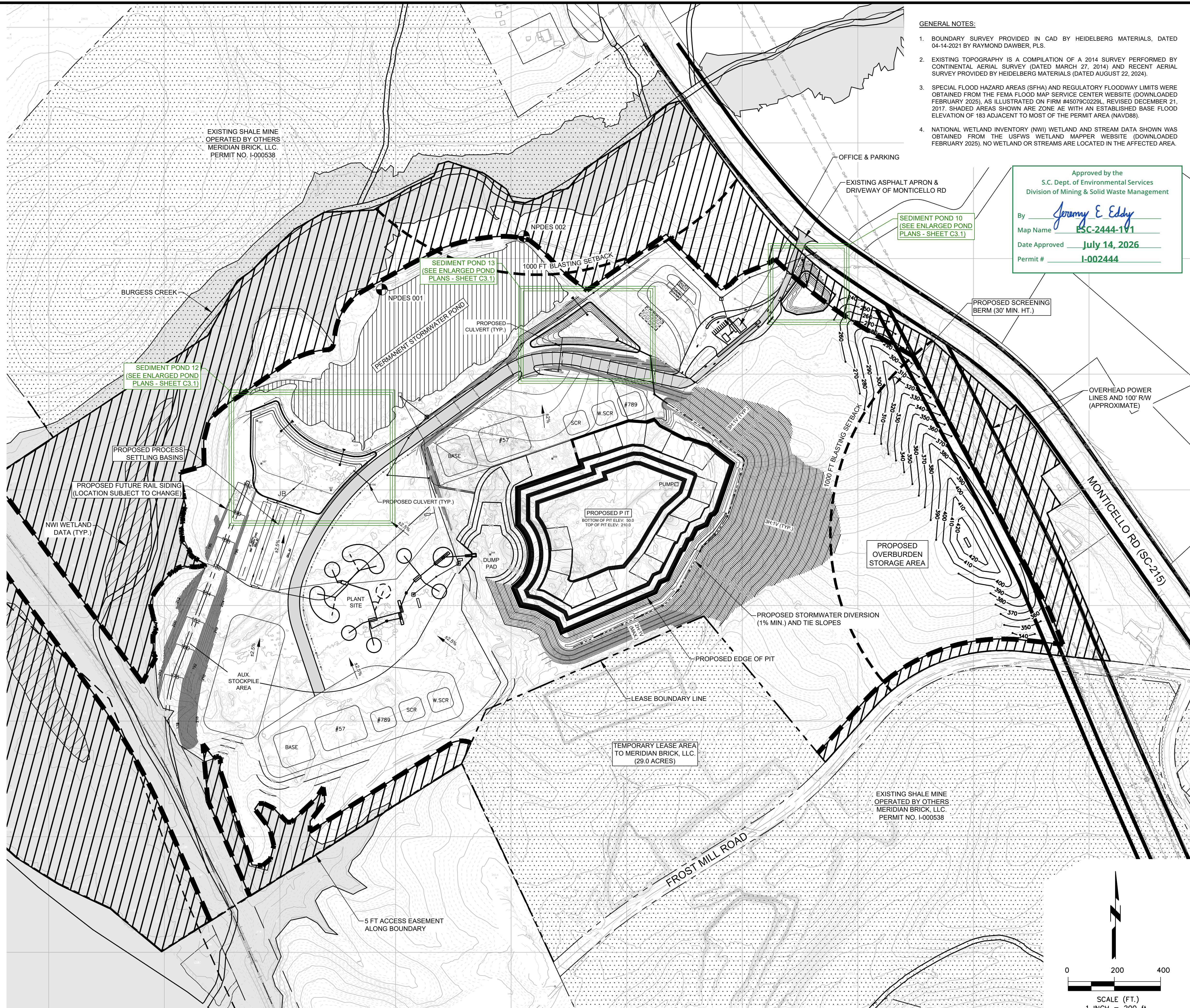
**SEDIMENT CONTROL**

SEDIMENT BASIN:  
TEMPORARY SEDIMENT TRAP:  
ROCK SEDIMENT DIKE:  
ROCK CHECK DAM:  
SEDIMENT TUBE:  
SILT FENCE:  
REINFORCED SILT FENCE:  
TYPE A – FABRIC INLET PROTECTION:  
TYPE A – SEDIMENT TUBE INLET PROTECTION:  
TYPE B – WIRE MESH AND STONE DROP INLET PROTECTION:  
TYPE C – BLOCK AND GRAVEL INLET PROTECTION:  
TYPE D – RIGID INLET FILTERS  
TYPE E – SURFACE COURSE CURB INLET FILTER  
TYPE F – INLET TUBE  
ROCK SEDIMENT DIKE:









1. BOUNDARY SURVEY PROVIDED IN CAD BY HEIDELBERG MATERIALS, DATED 04-14-2021 BY RAYMOND DAWBER, PLS.
2. EXISTING TOPOGRAPHY IS A COMPILATION OF A 2014 SURVEY PERFORMED BY CONTINENTAL AERIAL SURVEY (DATED MARCH 27, 2014) AND RECENT AERIAL SURVEY PROVIDED BY HEIDELBERG MATERIALS (DATED AUGUST 22, 2024).
3. SPECIAL FLOOD HAZARD AREAS (SFHA) AND REGULATORY FLOODWAY LIMITS WERE OBTAINED FROM THE FEMA FLOOD MAP SERVICE CENTER WEBSITE (DOWNLOADED FEBRUARY 2025), AS ILLUSTRATED ON FIRM #45079C0229L, REVISED DECEMBER 21, 2017. SHADED AREAS SHOWN ARE ZONE AE WITH AN ESTABLISHED BASE FLOOD ELEVATION OF 183 ADJACENT TO MOST OF THE PERMIT AREA (NAVDD88).
4. NATIONAL WETLAND INVENTORY (NWI) WETLAND AND STREAM DATA SHOWN WAS OBTAINED FROM THE USFWS WETLAND MAPPER WEBSITE (DOWNLOADED FEBRUARY 2025). NO WETLAND OR STREAMS ARE LOCATED IN THE AFFECTED AREA.

Approved by the  
S.C. Dept. of Environmental Services  
Division of Mining & Solid Waste Management

By Jeremy E. Eddy  
Map Name PSC-2444-191  
Date Approved July 14, 2026  
Permit # I-002444



**CALIBER**  
ENGINEERING CONSULTANTS LLC

P.O. Box 27171 Greenville, SC 29616  
(Delivery) 25 Woods Lake Rd.  
Suite 408, Greenville, SC 29607

Phone (864) 244-9238 Fax (864) 244-9576  
[www.CaliberEngineering.com](http://www.CaliberEngineering.com)

THIS COPYRIGHTED DOCUMENT IS AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED, OR REUSED IN PART OR IN WHOLE WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.  
ALL RIGHTS RESERVED

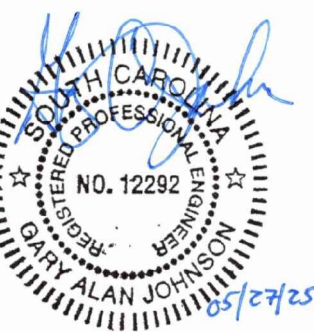
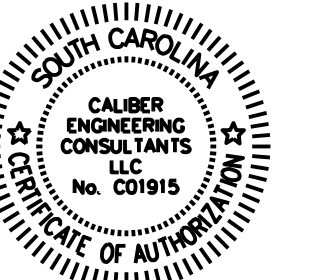
PERMITTEE / OPERATOR:



HEIDELBERG MATERIALS  
SOUTHEAST AGG, LLC.

217 CEDAR ROAD  
LEXINGTON, SC 29073

OWNER CONTACT:  
KAYLEE JONES, Ph.D.  
kaylee.jones@heidelbergmaterials.com  
864-308-7850



## MINE PERMIT #I-002444

7955 MONTICELLO RD.  
COLUMBIA, SC 29203

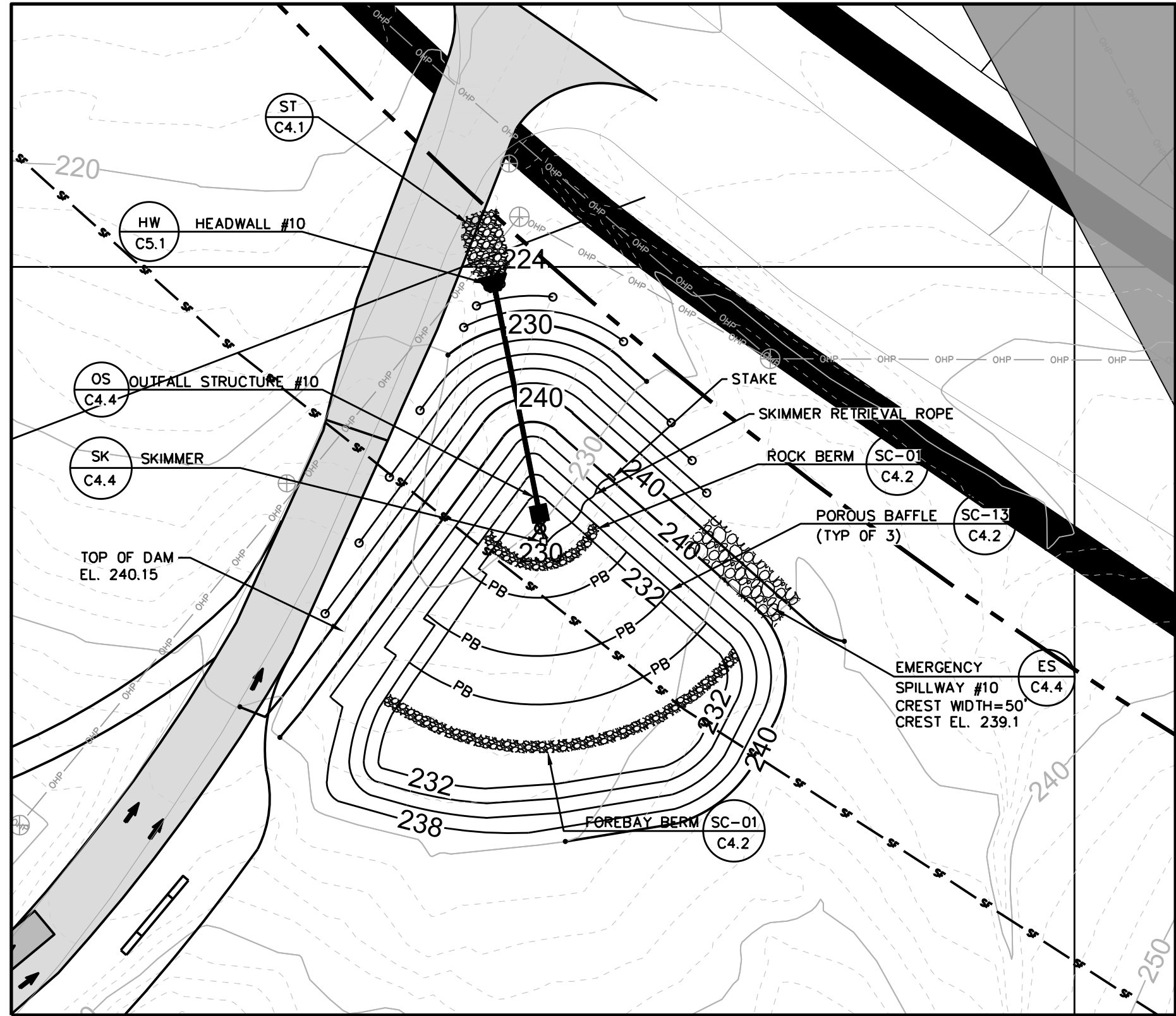
[illegible]

|             |         |
|-------------|---------|
| PROJECT NO: | 251-001 |
| CAD DWG:    |         |
| DRAWN BY:   | RCH     |
| CHECKED BY: | GAJ     |

INITIAL PIT  
EP & SC PLAN

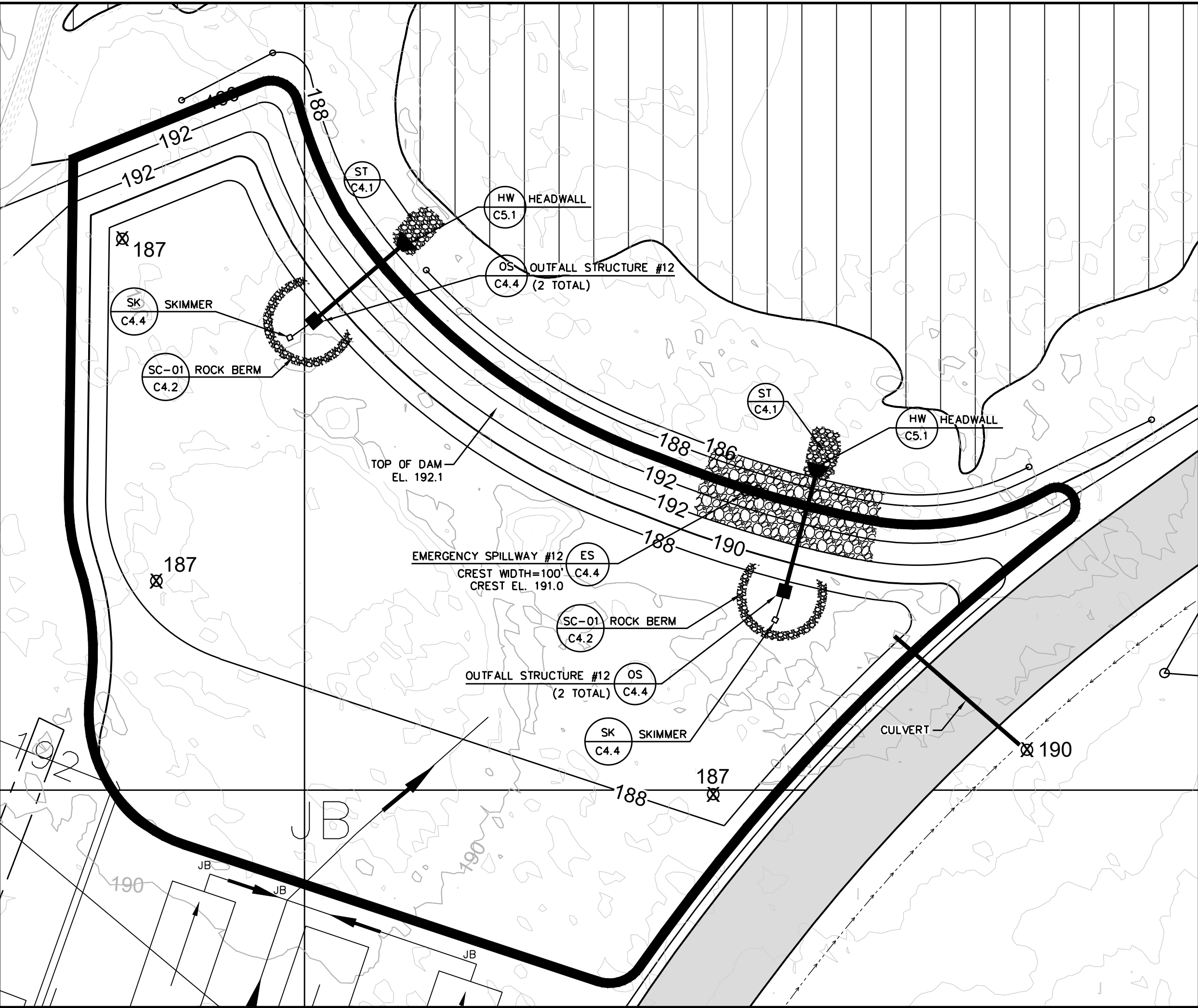
## C2.4





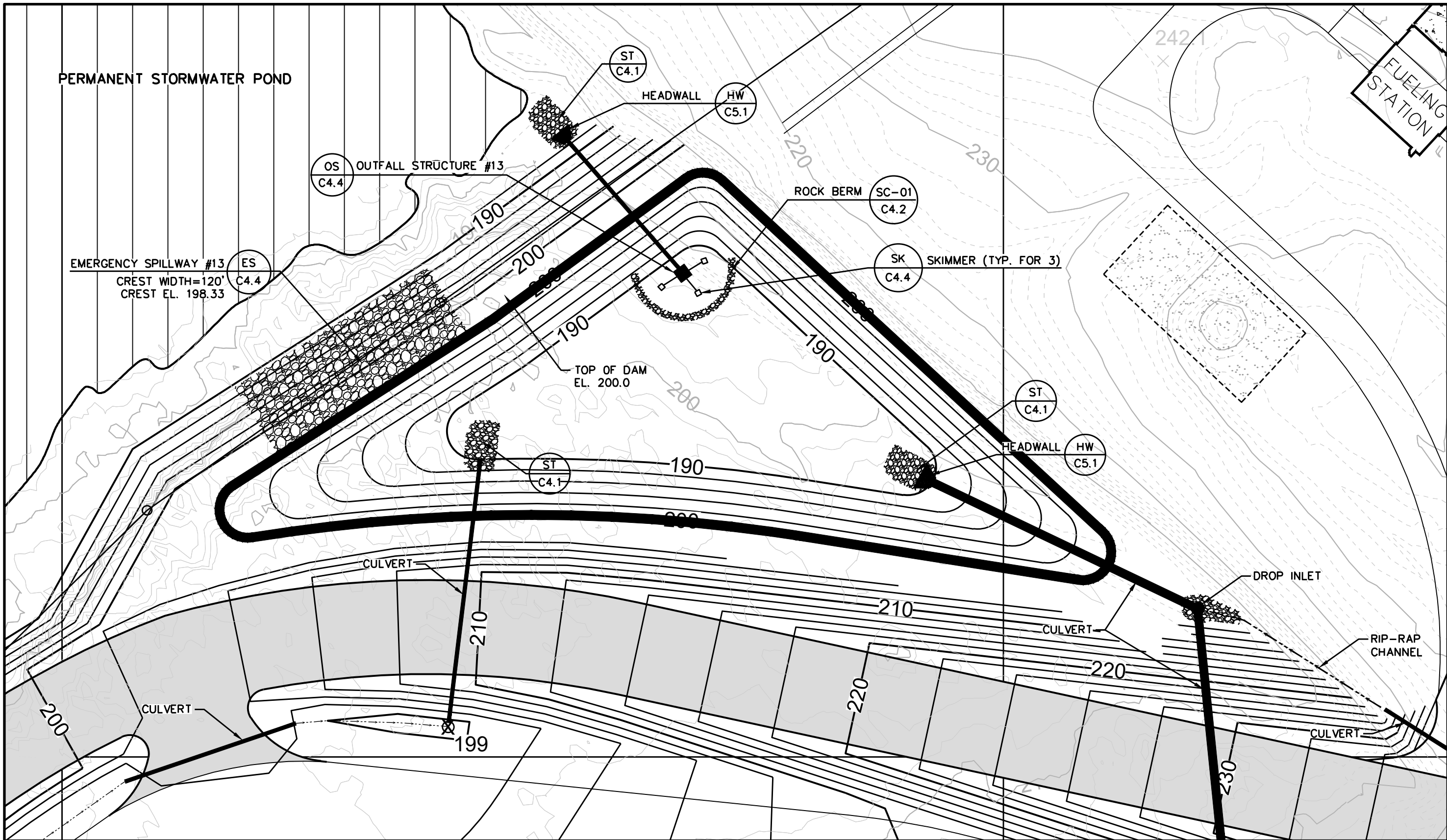
POND 10 ENLARGED PLAN  
SCALE: 1"=50'

| POND 10 REQUIRED SURFACE AREAS |                             |
|--------------------------------|-----------------------------|
| ELEVATION                      | MIN. CONTOUR AREA (SQ. FT.) |
| 230                            | 200                         |
| 232                            | 10,603                      |
| 234                            | 13,112                      |
| 236                            | 16,838                      |
| 238                            | 25,223                      |
| 240.15                         | 20,876                      |



POND 12 ENLARGED PLAN  
SCALE: 1"=50'

| POND 12 REQUIRED SURFACE AREAS |                             |
|--------------------------------|-----------------------------|
| ELEVATION                      | MIN. CONTOUR AREA (SQ. FT.) |
| 186                            | 2,000                       |
| 188                            | 80,000                      |
| 190                            | 100,000                     |
| 192                            | 105,000                     |
| 192.1                          | 106,000                     |

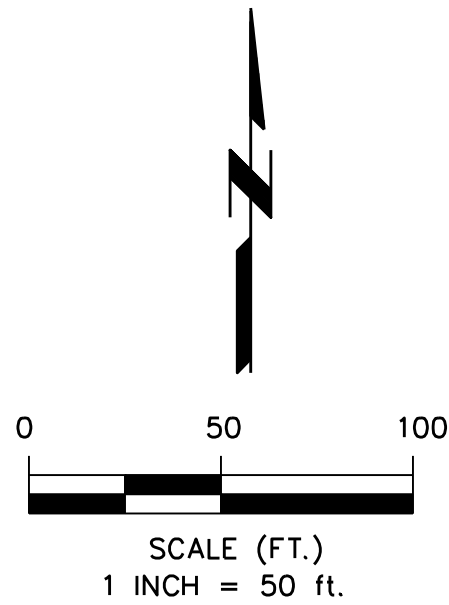


POND 13 ENLARGED PLAN  
SCALE: 1"=50'

| POND 13 REQUIRED SURFACE AREAS |                             |
|--------------------------------|-----------------------------|
| ELEVATION                      | MIN. CONTOUR AREA (SQ. FT.) |
| 188.5                          | 500                         |
| 190                            | 18,000                      |
| 192                            | 23,000                      |
| 194                            | 28,500                      |
| 196                            | 34,500                      |
| 198                            | 41,000                      |
| 200                            | 48,500                      |

Approved by the  
S.C. Dept. of Environmental Services  
Division of Mining & Solid Waste Management

By Jeremy E. Eddy  
Map Name ESC-2444-201  
Date Approved July 14, 2026  
Permit # I-002444



THIS COPYRIGHTED DOCUMENT IS AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED, OR REUSED IN PART OR IN WHOLE WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. ALL RIGHTS RESERVED

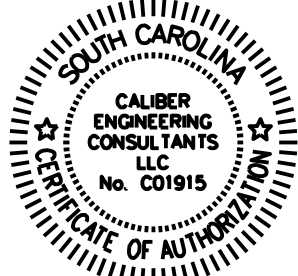
PERMITEE / OPERATOR:



HEIDELBERG MATERIALS  
SOUTHEAST AGG, LLC.

217 CEDAR ROAD  
LEXINGTON, SC 29073

OWNER CONTACT:  
KAYLEE JONES, Ph.D.  
kaylee.jones@heidelbergmaterials.com  
864-308-7850



**MANNING QUARRY**

MINE PERMIT #I-002444

7955 MONTICELLO RD.  
COLUMBIA, SC 29203

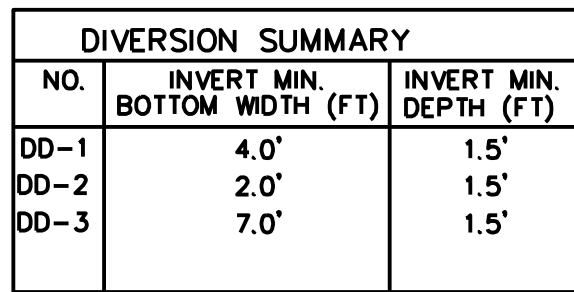
TAX MAP NO. R07700-01-05

| DATE     | REV | DESCRIPTION             |
|----------|-----|-------------------------|
| 05-27-25 | A   | ISSUED FOR SCDES REVIEW |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |

PROJECT NO: 251-001  
CAD DWG:  
DRAWN BY: RCH  
CHECKED BY: GAJ

SEDIMENT POND  
ENLARGED PLANS





South Carolina Department of  
Health and Environmental Control

---

DIVERSION DIKE OR BERM

---

STANDARD DRAWING NO. **RC-02** Page **2** of **2**

---

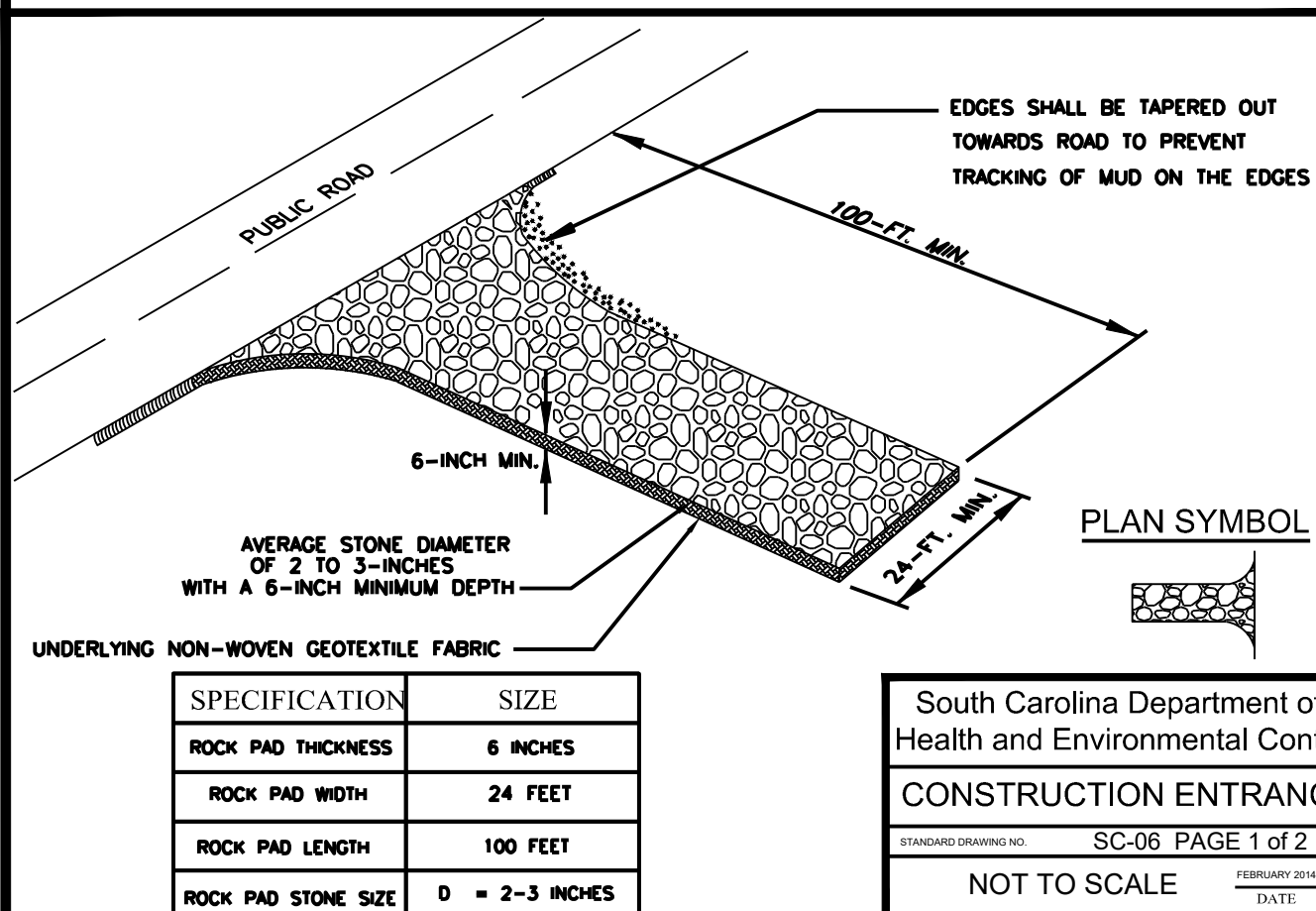
APPROVED BY: \_\_\_\_\_ AUGUST, 2009  
SCHEIC \_\_\_\_\_ DATE

STANDARD DRAWING NO. **RC-02** Page 1 of 2

APPROVED BY: \_\_\_\_\_ AUGUST, 2006

SCHEDEC DATE

RIP RAP OUTLET PROTECTION (N.T.S.) 



GENERAL NOTES FEBRUARY 2014  
DATE

Date Approved July 14, 2026  
Permit # I-002444

The diagram illustrates the steps for installing erosion control matting in a trench. It includes the following components and labels:

- A. BURY THE TOP END OF THE MATTING IN A TRENCH 5 INCHES OR MORE IN DEPTH.** Shows a cross-section of a trench with the top edge of the matting buried.
- B. TAMP THE TRENCH FULL OF SOIL. SECURE WITH ROW OF STAPLES, 10" SPACING, 4 INCHES DOWN FROM THE TRENCH.** Shows the trench filled with soil and a row of staples securing the matting.
- C. OVERLAP MATTING AT UPPER END OF LOWER STRIP AS IN 'A' AND 'B' OVERLAP END OF STAPLE.** Shows two strips of matting overlapping, with the top strip secured by staples.
- D. CHECK SLOT--- FOLD OF MATTING BURIED IN SLIT TRENCH AND TAMPED. DOUBLE ROW OF STAPLES.** Shows a slot in the matting being checked and secured with a double row of staples.
- E. OVERALL** Shows the overall view of the matting installation, with a note: **2" MIN. OVERLAP BETWEEN MATTING ROLLS**.
- F. PRESS ENDS OF MATTING 4 INCHES INTO THE SOIL AROUND STRUCTURES, AND STAPLE SECURELY.** Shows the matting being pressed into the soil around a structure and secured with staples.
- Labels and Dimensions:**
  - 10"**: Spacing between staples.
  - 1 1/2"**: Width of the matting strip.
  - TYPICAL STAPLES #8 GAUGE WIRE**: Description of the staples used.
  - PLACE STAPLES 3 FEET APART AS REQUIRED TO KEEP THE MATTING FIRMLY PRESSED INTO THE SOIL.**: Instruction for securing the matting.

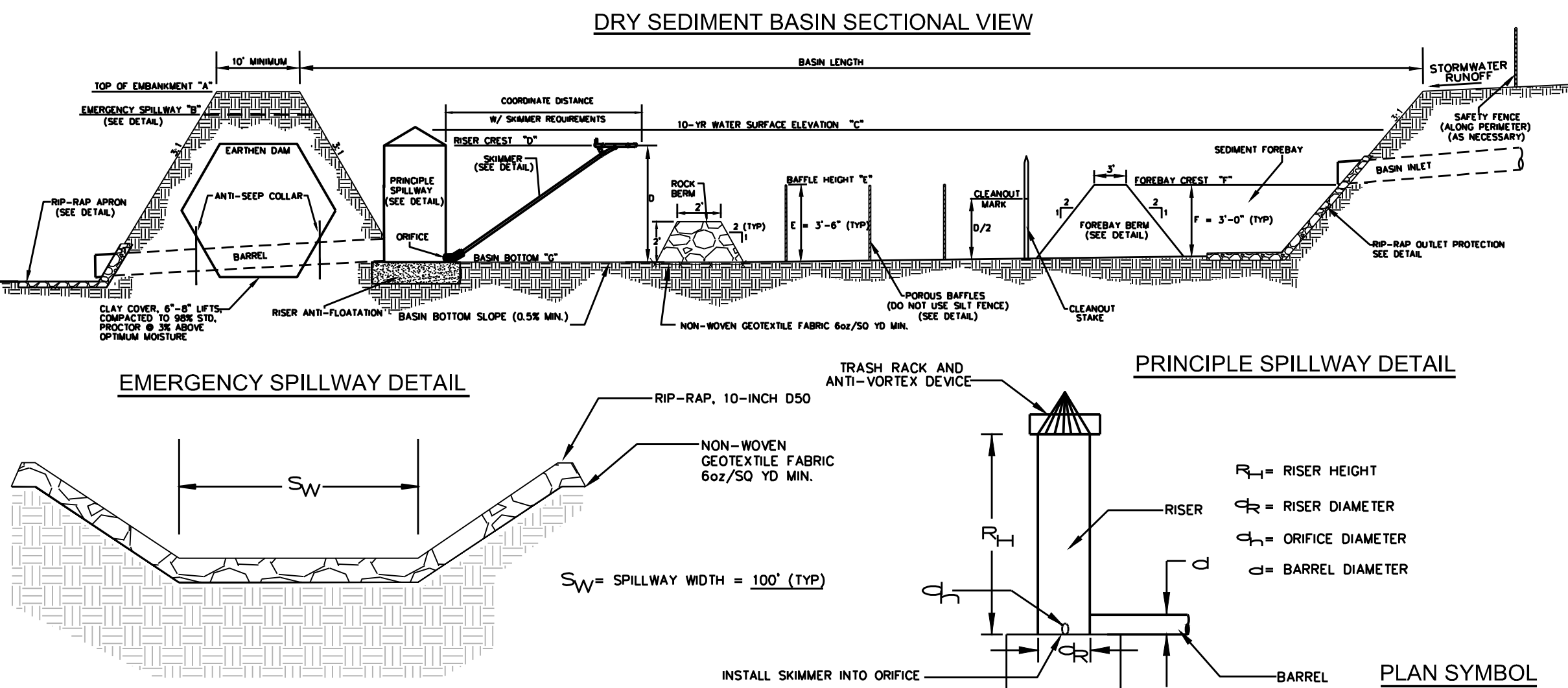
**INSPECTION AND MAINTENANCE.**

1. CHECK AREAS PROTECTED BY ROLLED EROSION CONTROL PRODUCTS (RECPs) FOR DISLOCATION OR FAILURE EVERY SEVEN (7) CALENDAR DAYS.
2. ENSURE THE PINNING OR STAPLING PATTERN IS CONSISTENT WITH THAT SHOWN ON THE MANUFACTURER'S INSTALLATION SHEET. IF THERE IS EVIDENCE THAT THE RECP IS NOT SECURELY FASTENED TO THE SOIL, INSTALL EXTRA PINS OR STAPLES TO INHIBIT THE RECP FROM BECOMING DISLOADED.
3. INSPECT REGULARLY UNTIL GRASS OR VEGETATION IS FULLY ESTABLISHED.
4. REPAIR OR DAMAGED AREAS IMMEDIATELY BY RESTORING THE SOIL ON SLOPES OR CHANNELS TO ITS FINISHED GRADE, REAPPLY FERTILIZER AND SEED, AND REPLACE THE APPROPRIATE RECP MATERIAL AS NEEDED.



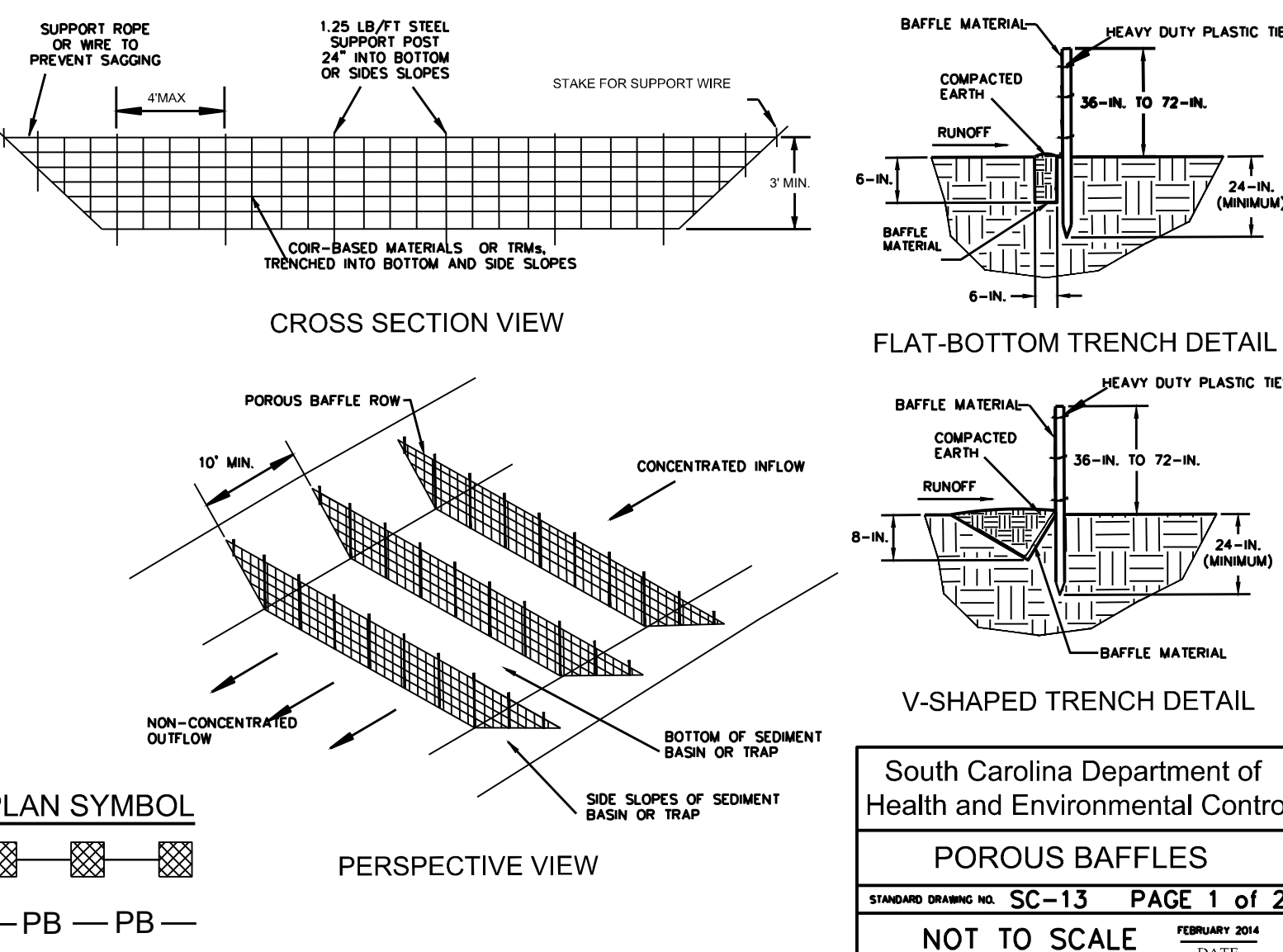
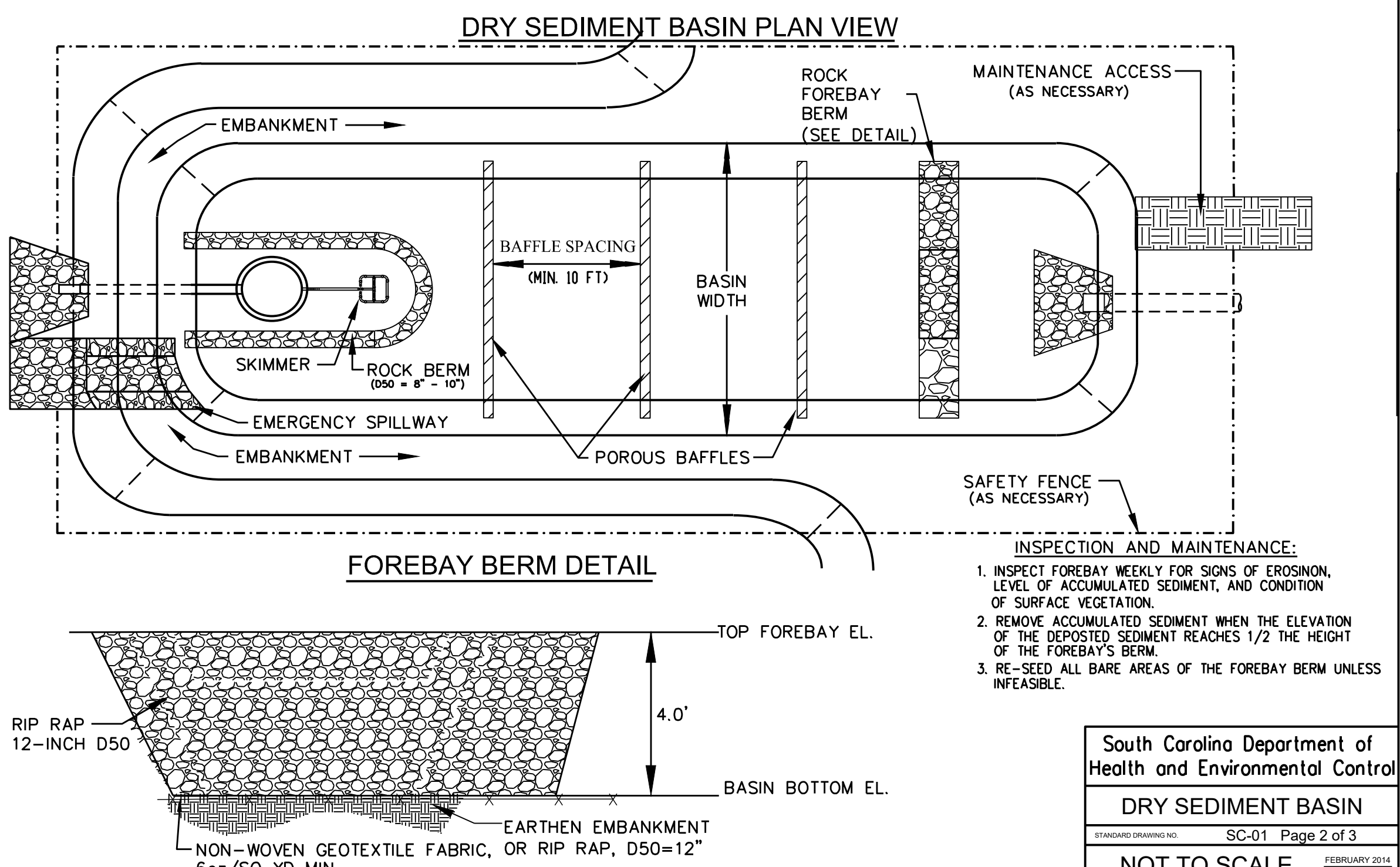
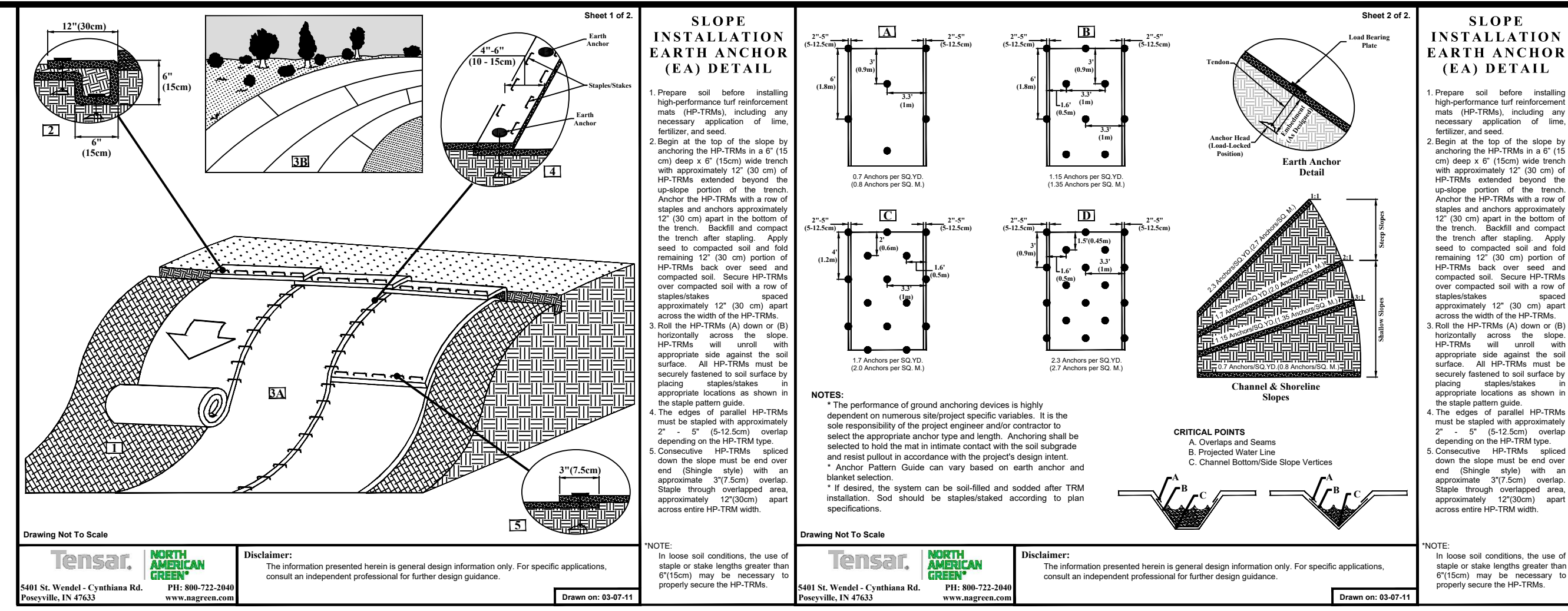
|  |      |
|--|------|
|  | C4.1 |
|--|------|





| Sediment Basin | "A"    | "B"    | "C"    | "D"   | "E" | "F" | "G"   | Skimmer Size (in.) | Skimmer Orifice DIA.(in.) | R <sub>1</sub><br>(ft) | C <sub>R</sub><br>(ft) | C <sub>T</sub><br>(in) | D<br>(in) |
|----------------|--------|--------|--------|-------|-----|-----|-------|--------------------|---------------------------|------------------------|------------------------|------------------------|-----------|
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
| 10             | 240.15 | 239.1  | 238.59 | 238.5 |     |     | 230.0 | (1) – 6"           | 6                         | 8.5                    | 4                      | (1) – 8"               | 18        |
| 12*            | 192.10 | 191.00 | 190.19 | 190.1 |     |     | 186.0 | (1) – 6"           | 5.5                       | 4.1                    | 4                      | (1) – 8"               | 24        |
| 13             | 200.00 | 198.33 | 197.30 | 197.0 |     |     | 188.5 | (3) – 8"           | 6.6                       | 8.5                    | 4                      | (3) – 10"              | 36        |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |
|                |        |        |        |       |     |     |       |                    |                           |                        |                        |                        |           |

| DRY SEDIMENT BASIN – INSPECTION AND MAINTENANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DRY SEDIMENT BASIN – INSPECTION AND MAINTENANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Sediment basins should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).</li> <li>2. Sediment basin's side slopes shall be seeded and, when necessary, stabilized with vegetative or synthetic matting to prevent the formation of rills and gullies.</li> <li>3. Install three (3) rows of porous baffles with a minimum spacing of 10 feet. Baffles should be placed to maximize the distance between the first row of baffles and the basin's inlets/outlets. Only two (2) rows of baffles are necessary for basins that are less than 50 feet in length.</li> <li>4. Porous Baffles should be composed of coir-based materials or TRMs with a light penetration (open spaces) between 10–35%. These materials should not have loose straw. Silt Fence may not be used as Porous Baffles.</li> <li>5. Each porous baffle shall be installed across the entire width of the basin and along the basin's side slope until the height of the baffle intersects the slope.</li> <li>6. Install skimmer and coupling (as necessary) to riser structure at orifice along bottom of the principle spillway's riser structure. (Refer to skimmer manufacturer for installation procedures and skimmer specifications.)</li> <li>7. Skimmer should be equipped with a mechanism, such as a rope, to allow easy access to skimmer to unclogged orifice or perform other necessary maintenance.</li> <li>8. Stormwater runoff entering the basin must be directed into proper BMPs to prevent erosion along side slopes and to prevent scour at the basin's inlets.</li> <li>9. The forebay berm should consist of riprap, gabion, or an earthen berm with a rock filled outlet that is constructed across the bottom of the basin's width.</li> <li>10. An additional cleanout stake for the forebay area is recommended and should be marked for cleanout at 50% of provided sediment storage.</li> <li>11. The elevation of the emergency spillway should be at least 1 foot below the top of the embankment. The emergency spillway should not be located on fill material, when possible. Riprap and geotextile liner should be placed on all spillways that must be located on fill material.</li> </ol> | <ol style="list-style-type: none"> <li>1. The key to a functional sediment basin is weekly inspections, routine maintenance, and regular sediment removal.</li> <li>2. Attention to sediment accumulations within the basin is extremely important. Accumulated sediment deposition should be continually checked and removed when necessary.</li> <li>3. Remove accumulated sediment when it reaches 50% of the design sediment storage volume or 1/2 the height of the riser structure, whichever is reached first.</li> <li>4. Removed sediment from the basin shall be placed in stockpile storage areas or spread thinly across the disturbed area. Stabilize the removed sediment after it is relocated.</li> <li>5. Inspections of sediment basins should be conducted once every calendar week and, as recommended, within 24-hours of each rainfall event that produces ½-inch or more of precipitation.</li> <li>6. All temporary sediment basins, which are not to be converted to a detention basin post-construction, should be removed within 30 days after final site stabilization is achieved.</li> <li>7. Disturbed areas resulting from the removal of the sediment basin should be permanently stabilized and additional BMPs, such as silt fence, should be utilized to accept stormwater runoff from this disturbed area until final stabilization is reached.</li> </ol> |



**MAINTENANCE ACCESS  
(AS NECESSARY)**

**SAFETY FENCE  
(AS NECESSARY)**

**INSPECTION AND MAINTENANCE:**

1. INSPECT FOREBAY WEEKLY FOR SIGNS OF EROSION, LEVEL OF ACCUMULATED SEDIMENT, AND CONDITION OF SURFACE VEGETATION.
2. REMOVE ACCUMULATED SEDIMENT WHEN THE ELEVATION OF THE DEPOSITED SEDIMENT REACHES 1/2 THE HEIGHT OF THE FOREBAY BERM.
3. RE-SEED ALL BARE AREAS OF THE FOREBAY BERM UNLESS INFESABLE.

**South Carolina Department of  
Health and Environmental Control**

**DRY SEDIMENT BASIN**

STANDARD DRAWING NO. SC-01 Page 2 of 3

**NOT TO SCALE**

FEBRUARY 2014  
DATE

**BAFFLES – POST REQUIREMENTS**

Porous baffle posts must be 60-inch to 96-inch long steel posts that meet, at a minimum, the following physical characteristics:

- Composed of a high strength steel with a minimum yield strength of 50,000 psi.
- Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
- Weigh 1.25 pounds per foot (a 85).

2. Posts shall be equipped with projections to aid in fastening of baffle material.

3. Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the baffle must be maintained, and a maximum height of 3 feet shall be maintained above the ground.

4. Post spacing shall be at a maximum of 4-feet on center.

**BAFFLES – MATERIAL REQUIREMENTS**

1. Baffle material must be composed of coir-based materials or Turf Reinforcement Matting (TRM) that consists of the following requirements:
  - Have a light penetration (5% openings) between 10-35%.
  - Free of loose straw material;
  - Have a minimum tensile strength of 145 lb/ft; and,
  - Have a minimum width of 48-inches.
2. 12-inches of the fabric should be placed within excavated trench and tined in when the trench is backfilled or baffle material may be staked into ground by using 12-inch staples with a maximum spacing of 12-inches.
3. Baffle material should be purchased in continuous rolls and cut to the width of the sediment basin or trap top to avoid joints.

**BAFFLES – GENERAL NOTES**

1. Attach baffle to the steel posts using heavy-duty plastic ties that are evenly spaced along the above ground portion of each post.
2. Install the baffle rows perpendicular to the direction of the stormwater flow and place each baffle the proper distance from inlet and outlets to allow access for maintenance and clean-out.

**BAFFLES – INSPECTION & MAINTENANCE**

1. The key to functional porous baffles is weekly inspection, routine maintenance, and regular sediment removal.
2. Regular inspections of porous baffles shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations along each row of baffles is extremely important. Accumulated sediment should be continuously monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the baffle row or when it reaches the clean-out height of the sediment basin or trap, whichever is reached first.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath each row of baffles, or where the baffle has sagged or collapsed due to runoff overlapping the baffle.
7. Check for tears/pits within the baffles, areas where the baffle has begun to decompose, and for any other circumstance that may render the baffle ineffective. Removed damaged baffles and reinstall new baffles immediately.
8. Porous baffles should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

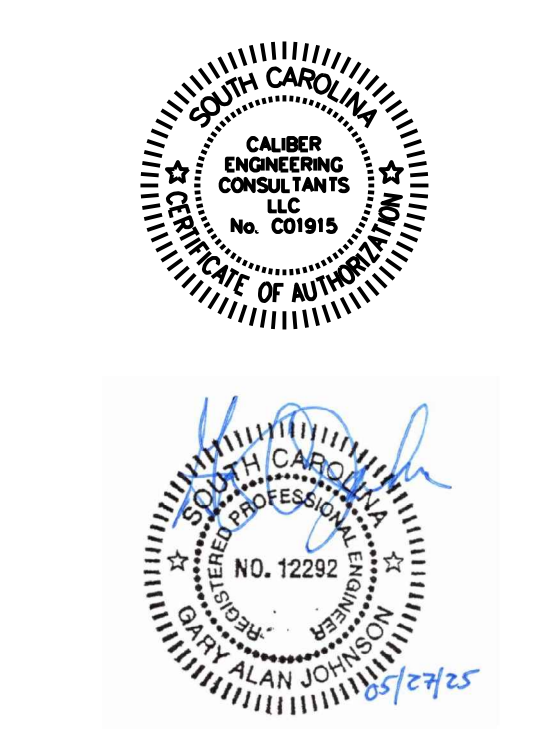


THIS COPYRIGHTED DOCUMENT IS AN  
INSTRUMENT OF SERVICE AND SHALL  
NOT BE REPRODUCED, ALTERED,  
OR REUSED IN PART OR IN WHOLE  
WITHOUT WRITTEN PERMISSION  
FROM THE ENGINEER.  
ALL RIGHTS RESERVED

**HEIDELBERG MATERIALS**  
**SOUTHEAST AGG, LLC.**

217 CEDAR ROAD  
LEXINGTON, SC 29073

**OWNER CONTACT:**  
**KAYLEE JONES, Ph.D.**  
kaylee.jones@heidelbergmaterials.com  
864-308-7850



**MANNING QUARRY**  
MINE PERMIT #I-002444

7955 MONTICELLO RD.  
COLUMBIA, SC 29203

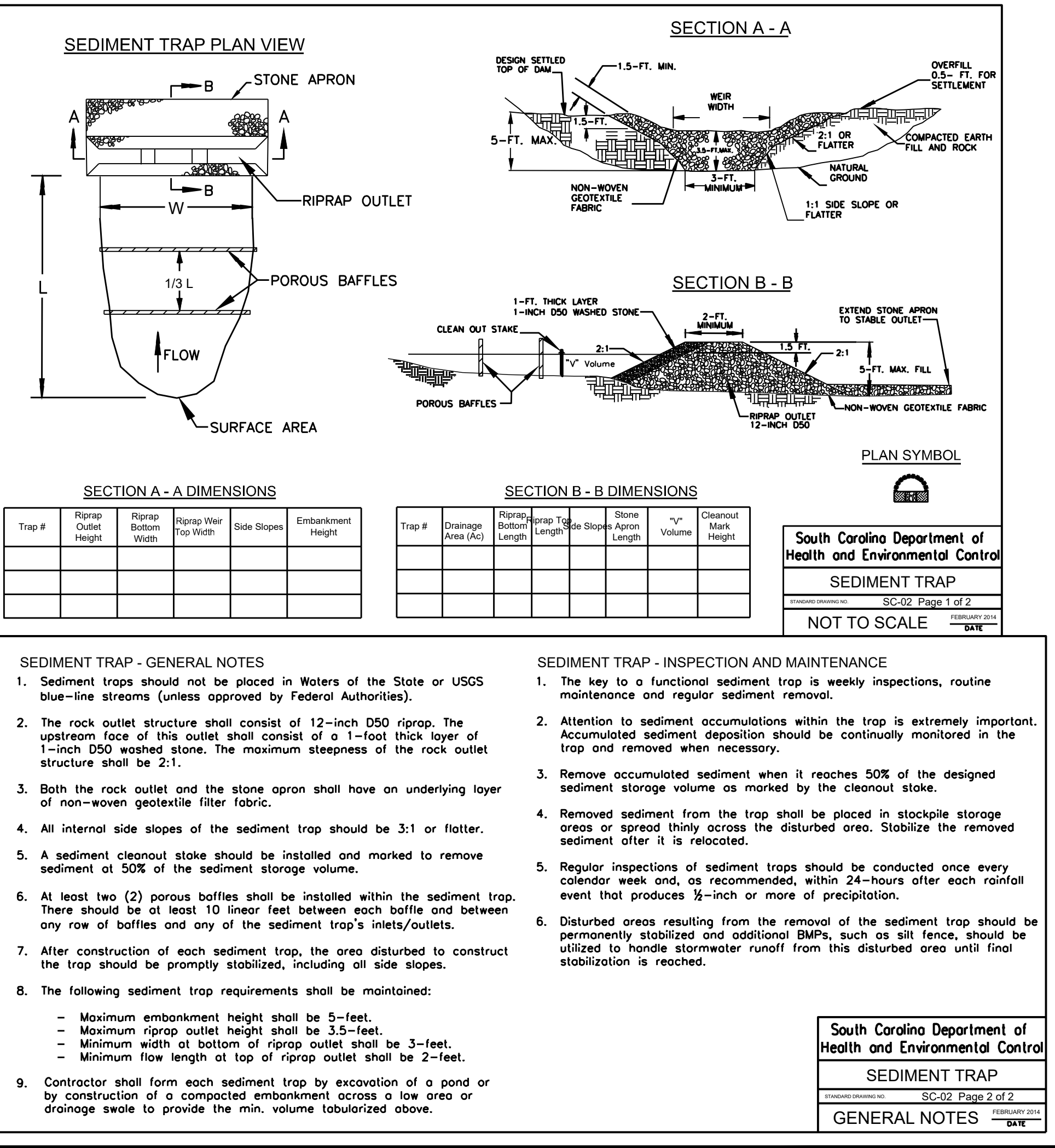
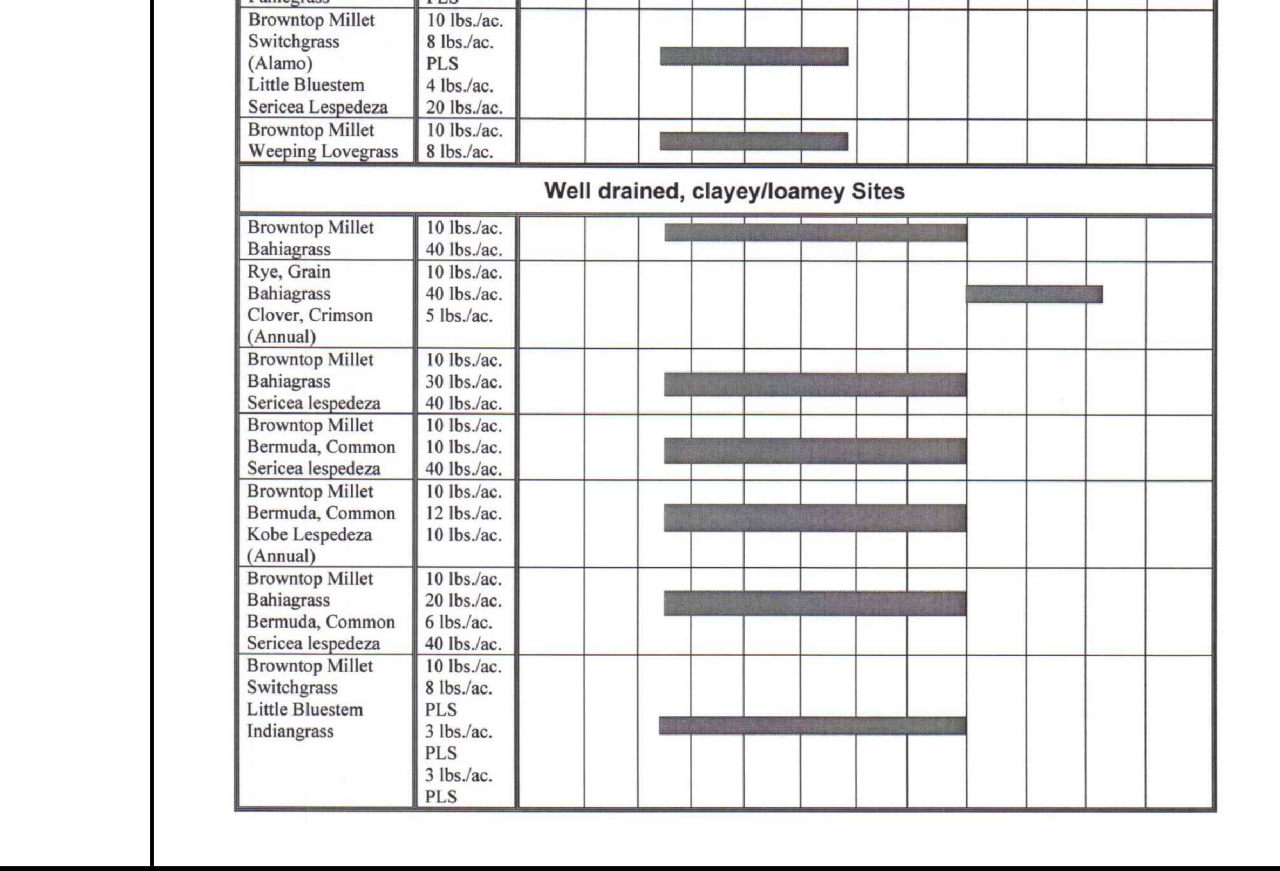
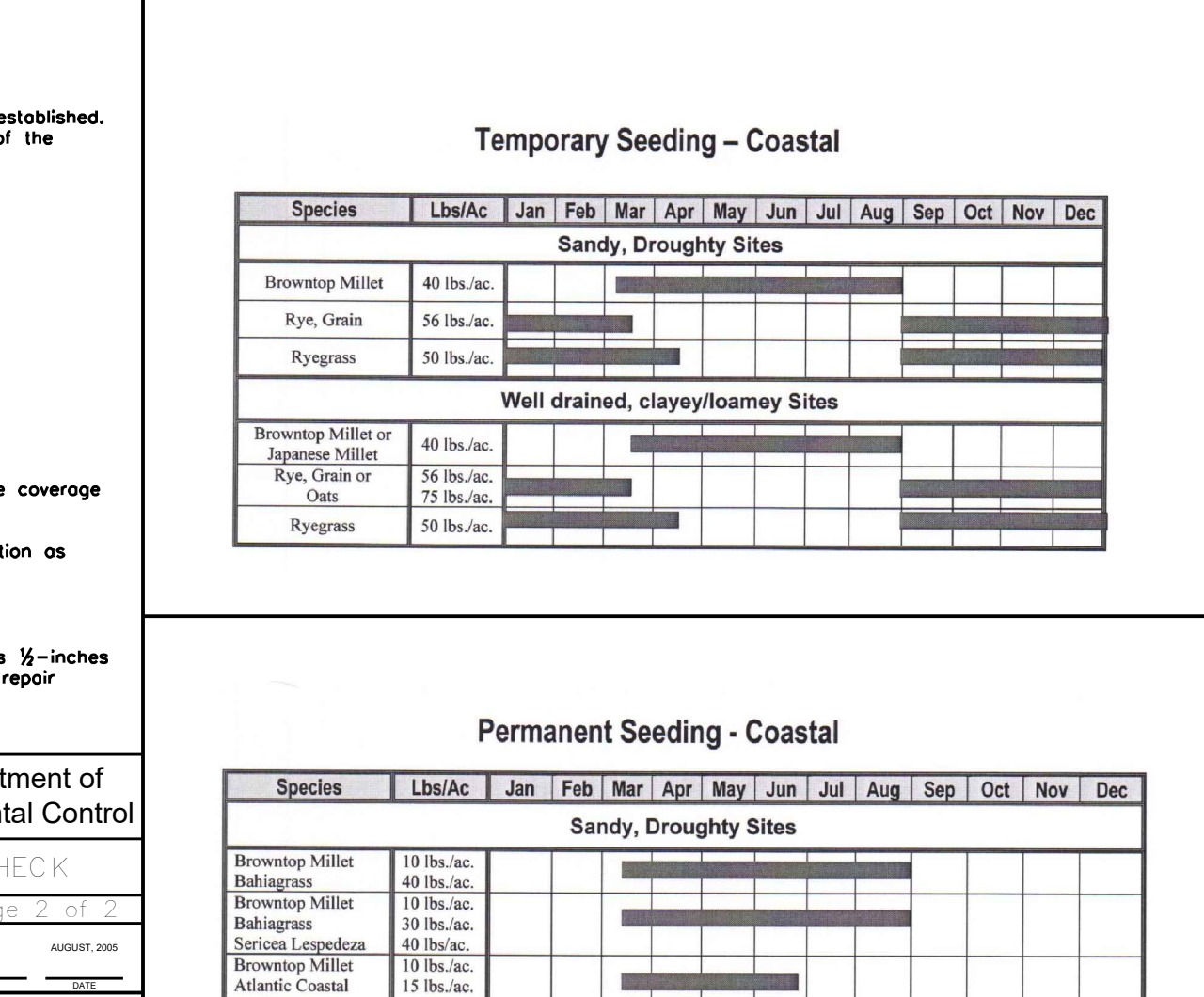
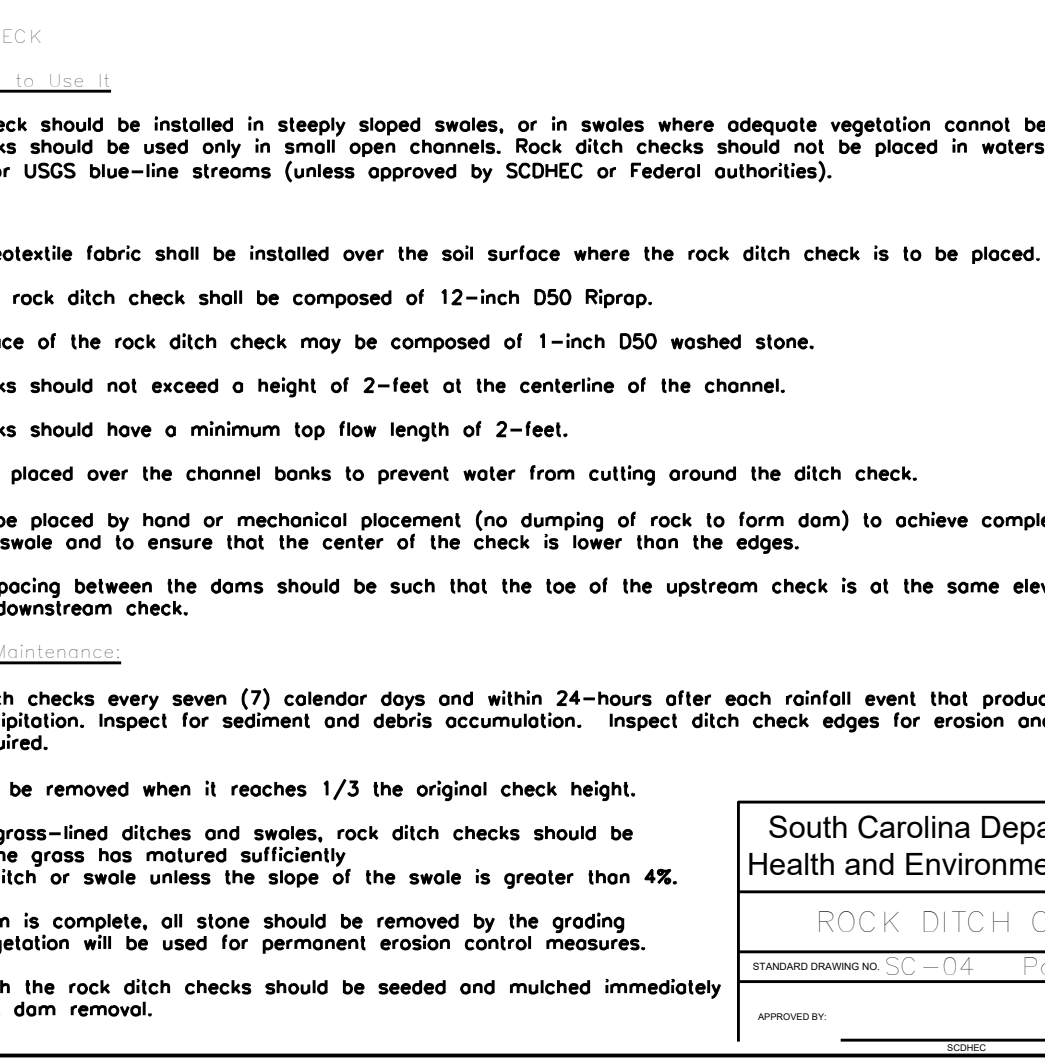
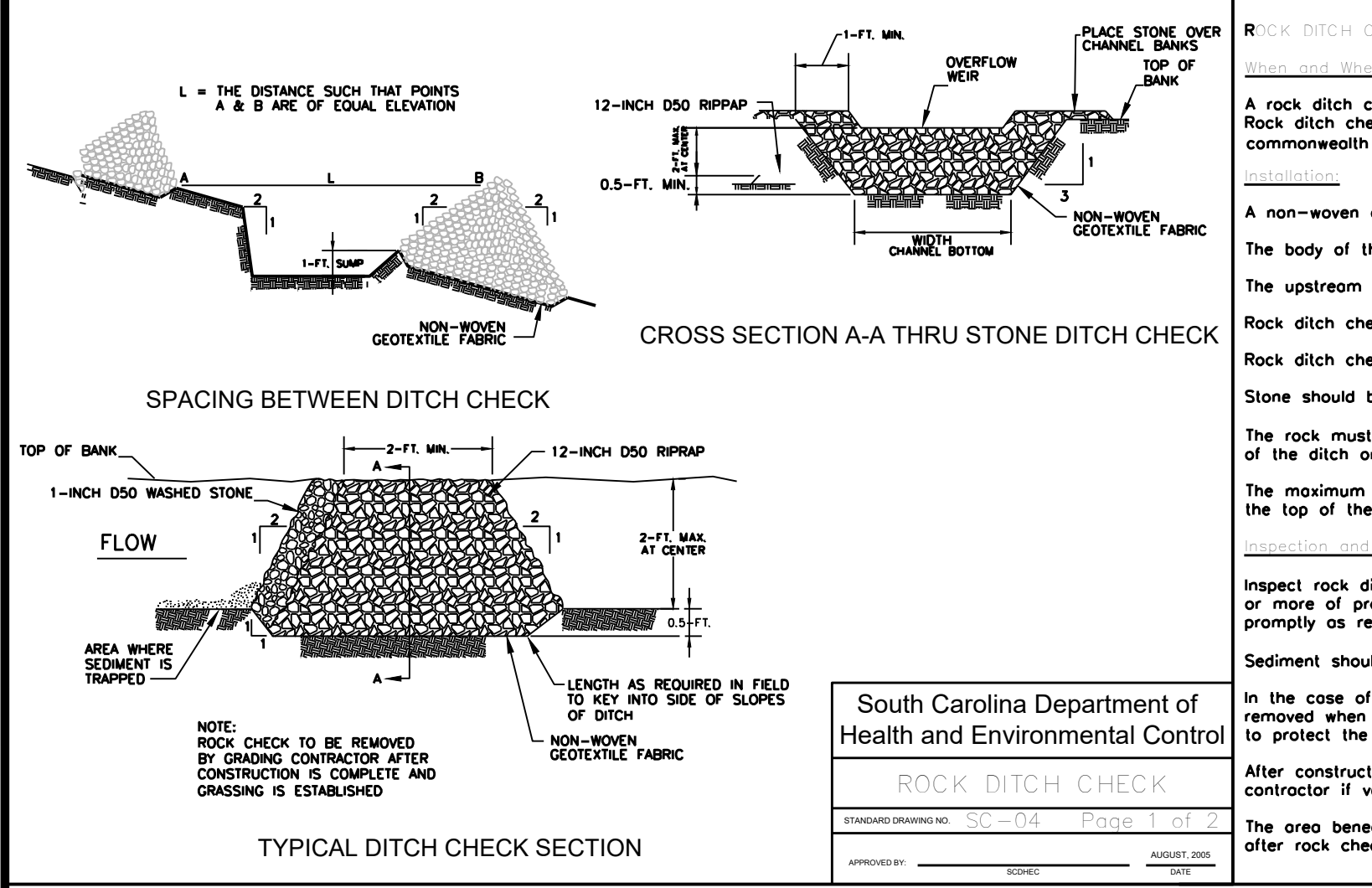
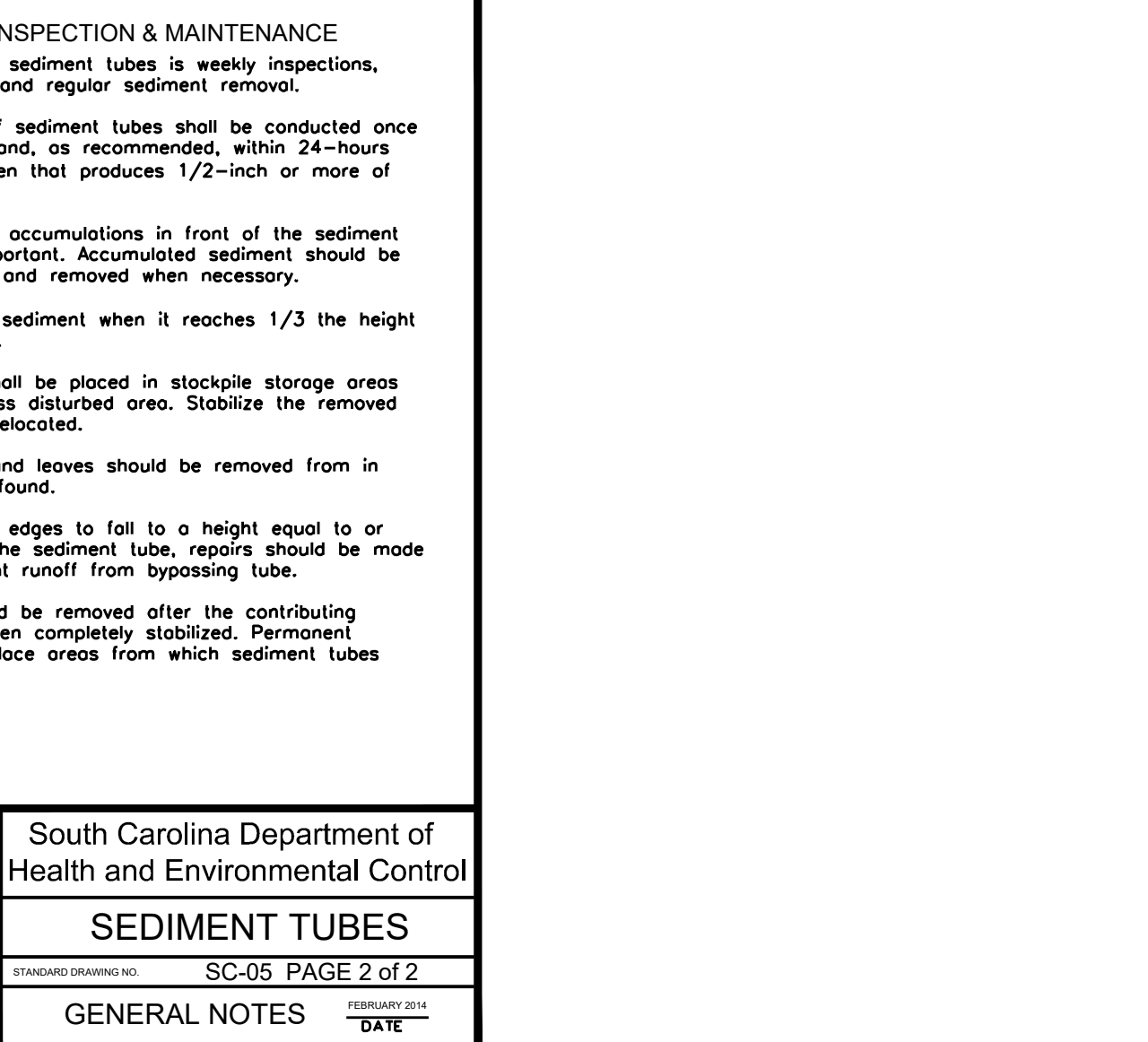
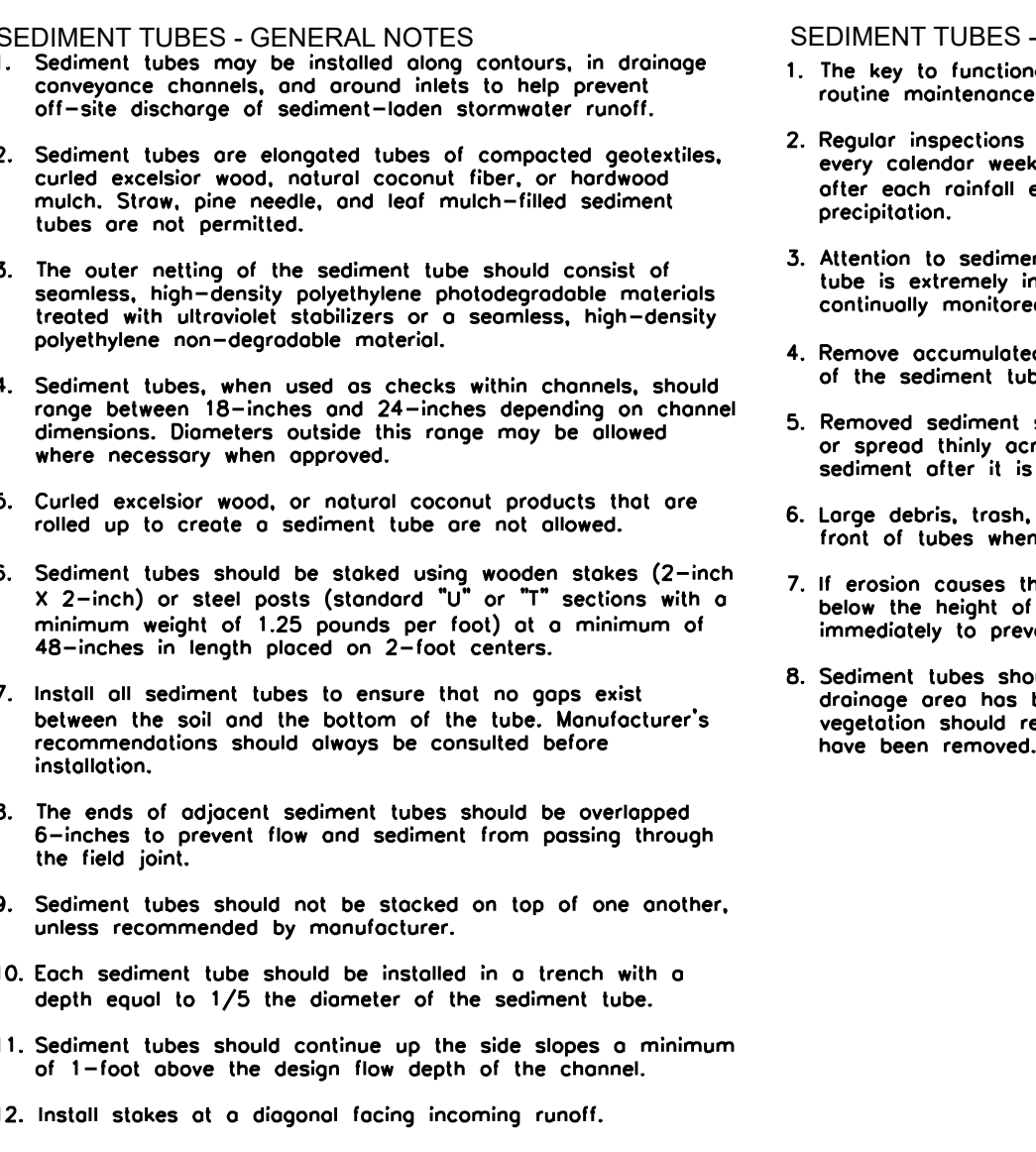
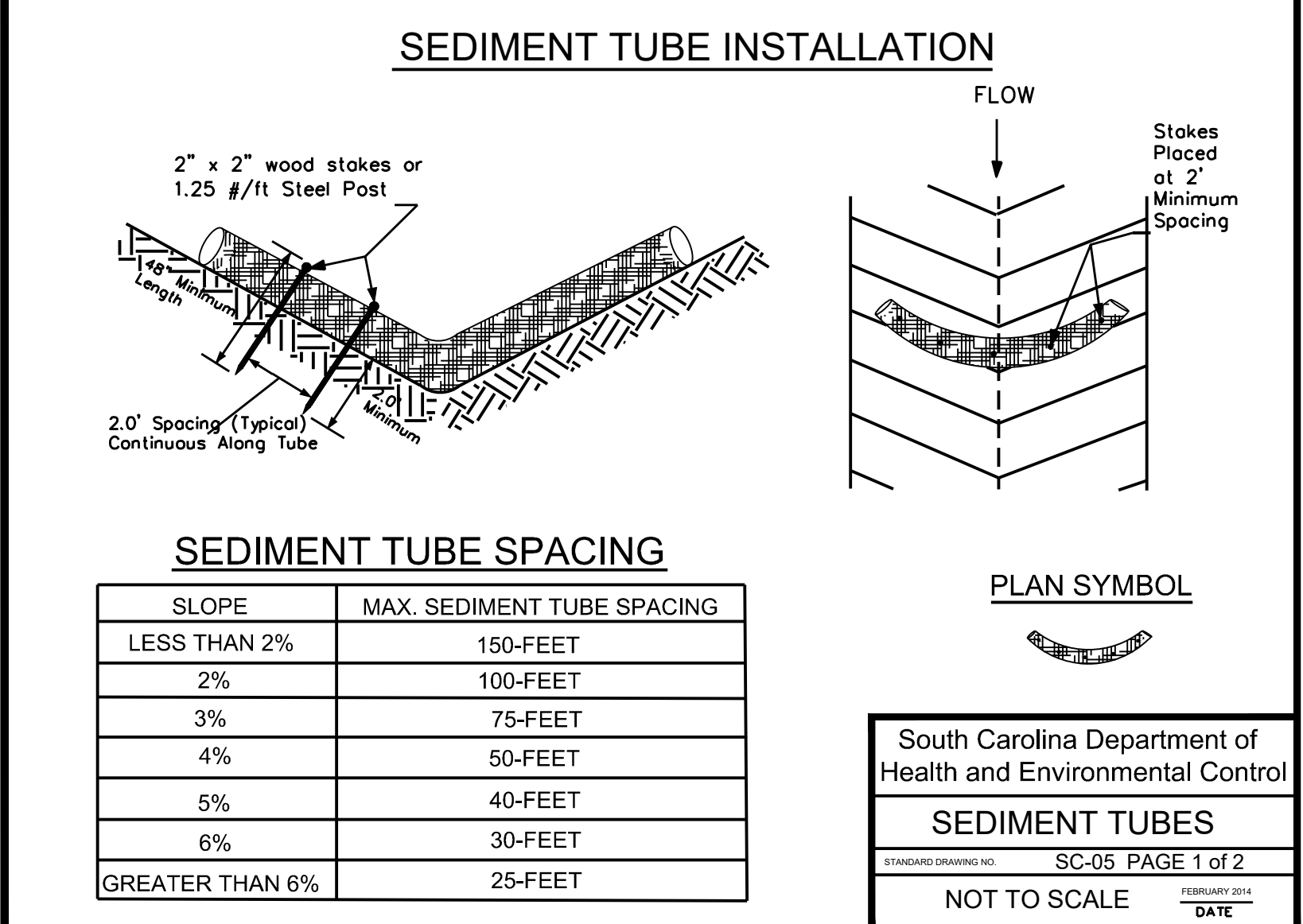
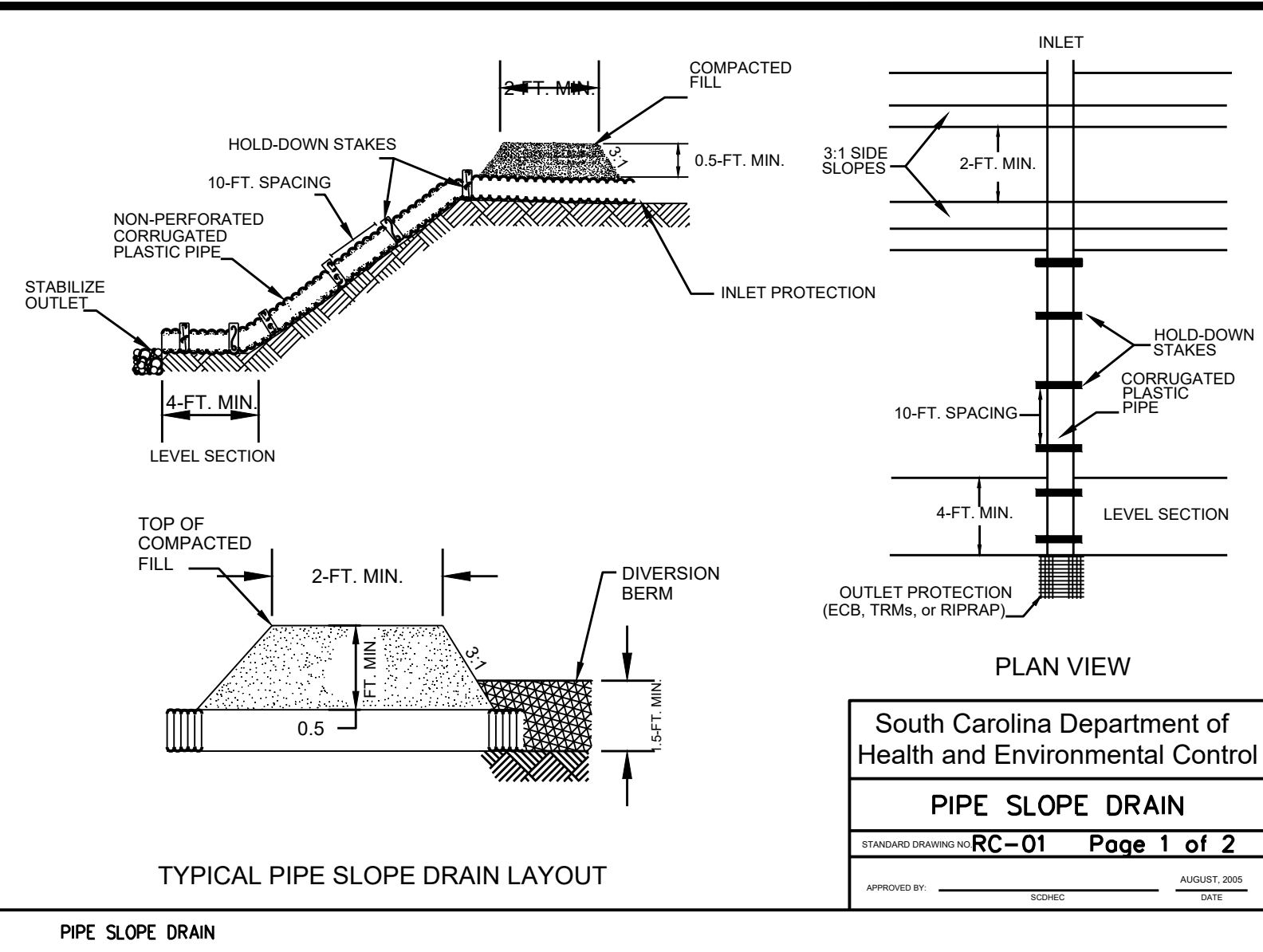
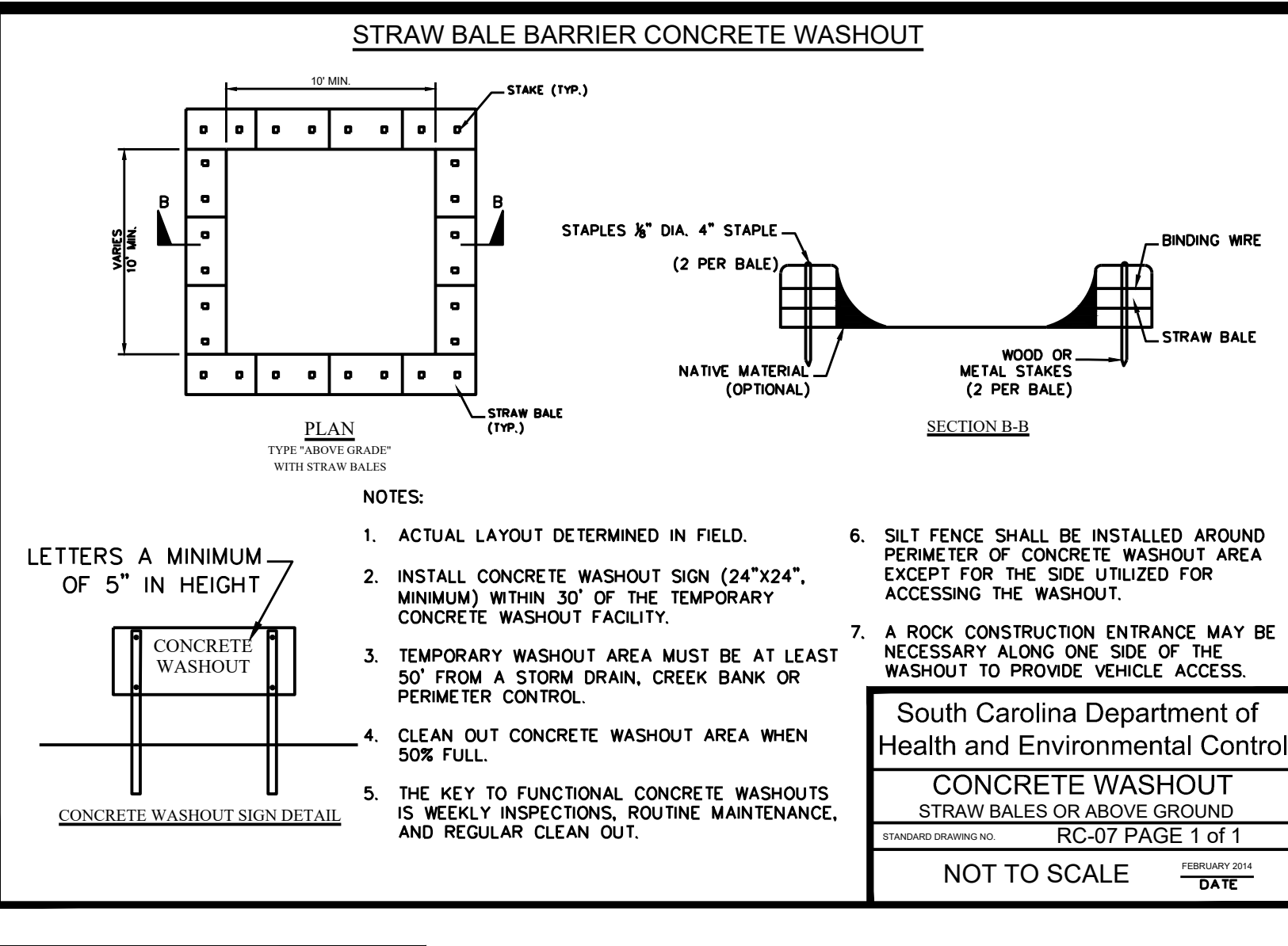
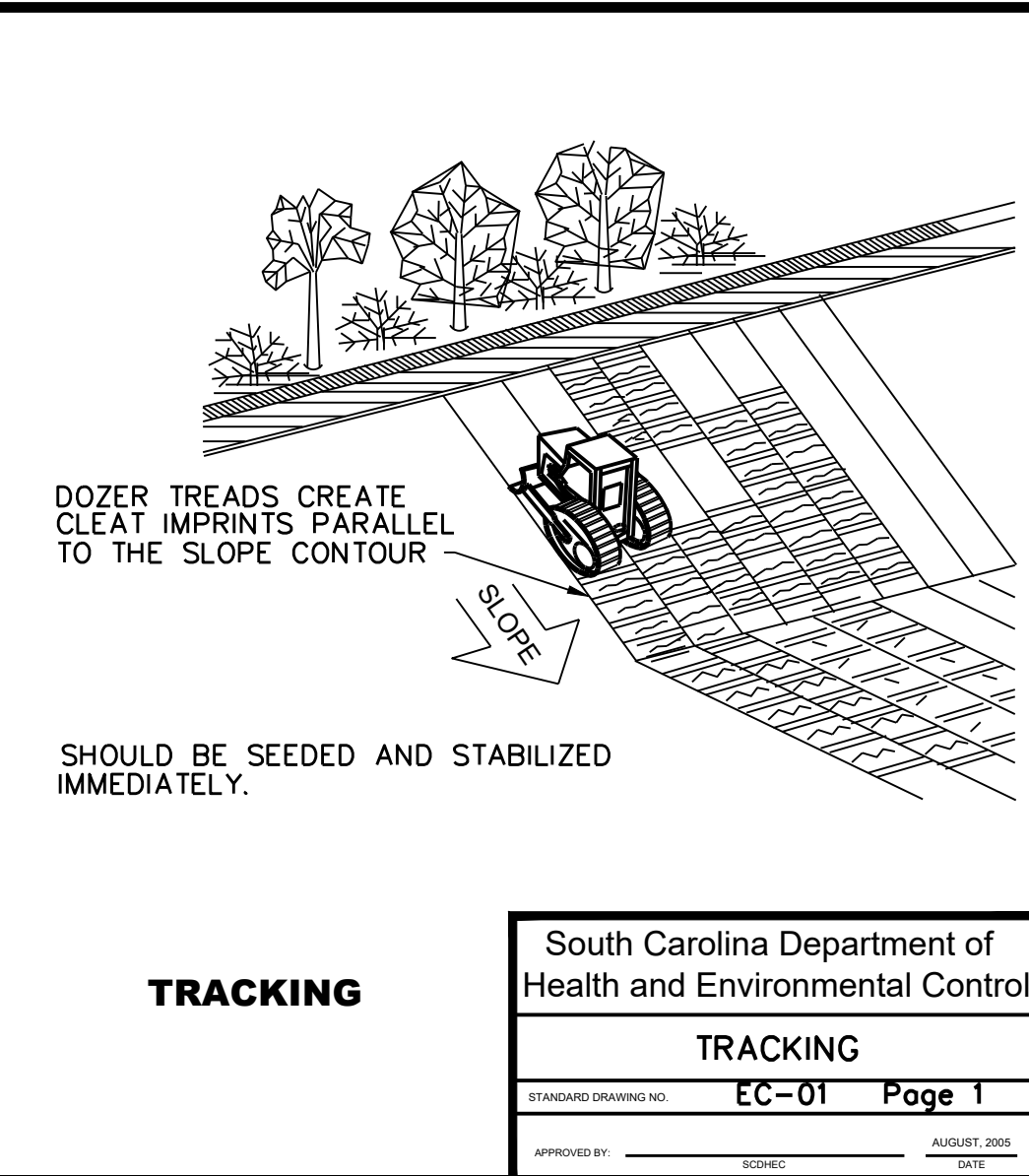
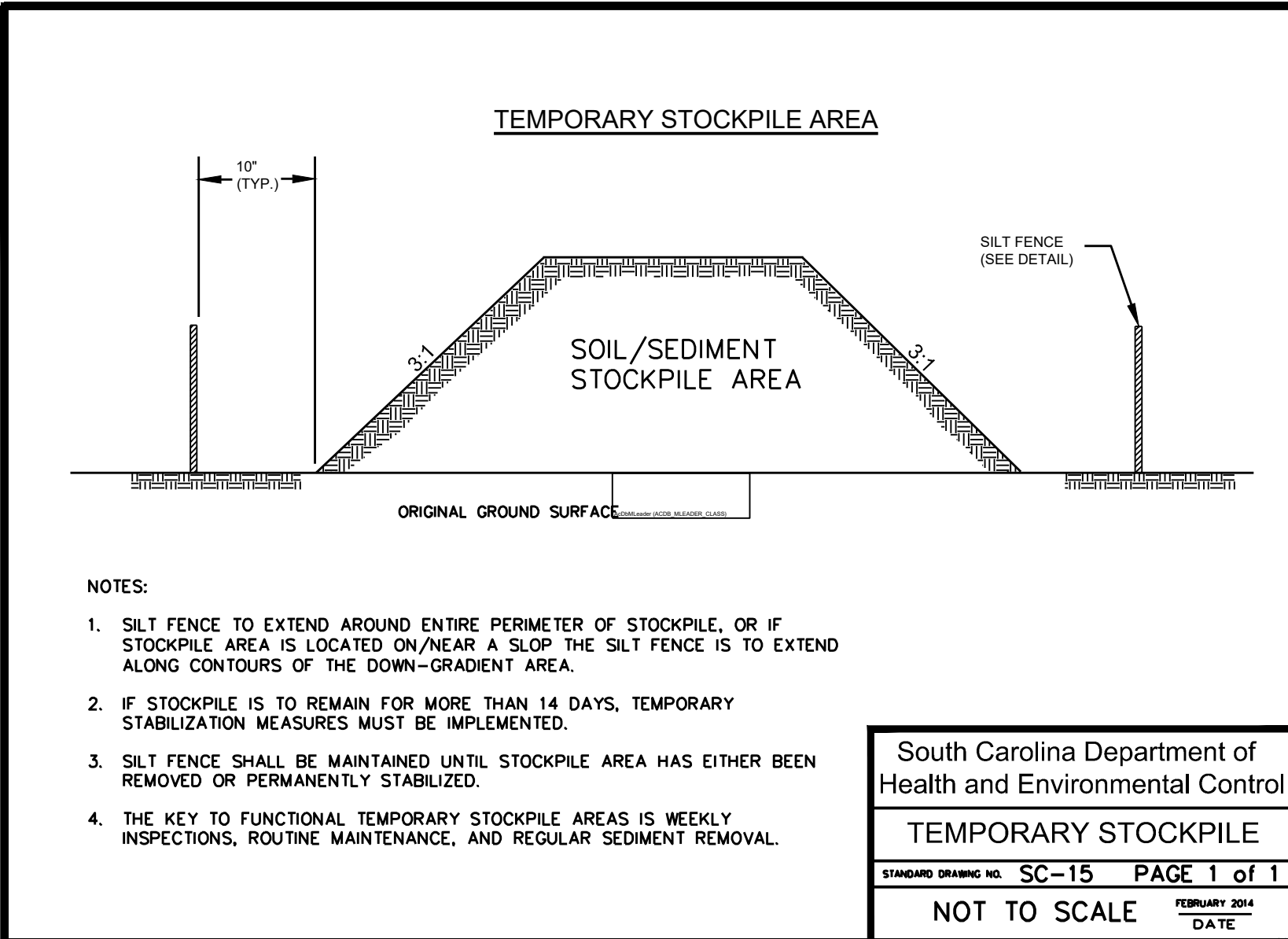
TAX MAP NO. R07700-01-05

[illegible]

|             |         |
|-------------|---------|
| PROJECT NO: | 251-001 |
| CAD DWG:    |         |
| DRAWN BY:   | RCH     |
| CHECKED BY: | GAJ     |

EP & SC  
NOTES & DETAILS  
(2 OF 4)





Approved by the  
S.C. Dept. of Environmental Services  
Division of Mining & Solid Waste Management

By Jeremy E. Eddy

Map Name ESC-2444-SV1

Date Approved July 14, 2026

Permit # I-002444

**CALIBER**  
ENGINEERING CONSULTANTS LLC  
P.O. Box 27171 Greenville, SC 29616  
(Delivery) 25 Woods Lake Rd.  
Suite 408, Greenville, SC 29607  
Phone (864) 244-9238 Fax (864) 244-9576  
www.CaliberEngineering.com

THIS COPYRIGHTED DOCUMENT IS AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED, OR REUSED IN PART OR IN WHOLE WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. ALL RIGHTS RESERVED

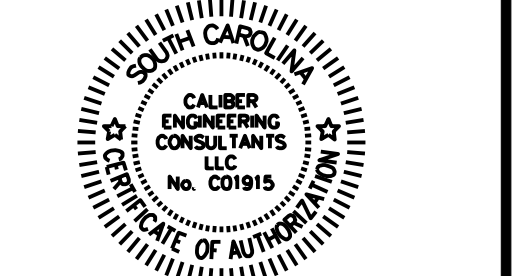
PERMITTEE / OPERATOR:

**Heidelberg**  
**Materials**

HEIDELBERG MATERIALS  
SOUTHEAST AGG, LLC.

217 CEDAR ROAD  
LEXINGTON, SC 29073

OWNER CONTACT:  
KAYLEE JONES, Ph.D.  
kaylee.jones@heidelbergmaterials.com  
864-308-7850



**MANNING QUARRY**  
MINE PERMIT #I-002444

7955 MONTICELLO RD.  
COLUMBIA, SC 29203

TAX MAP NO. R07700-01-05

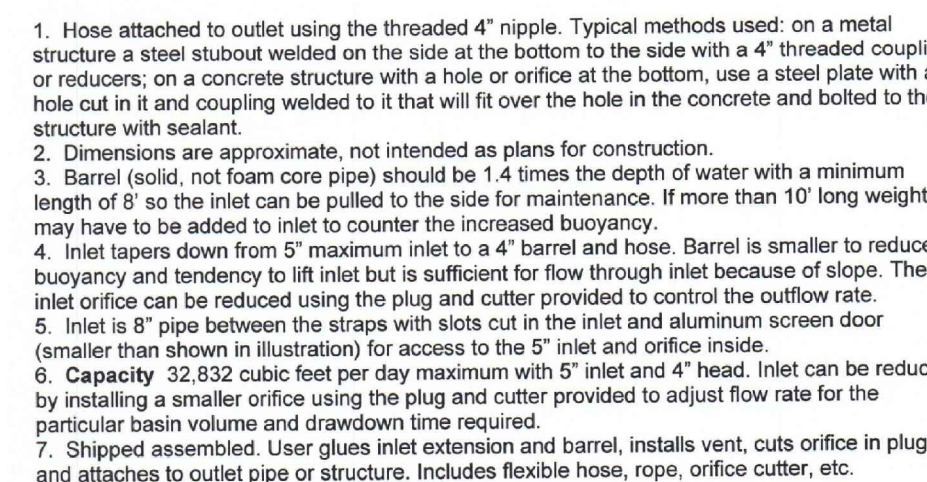
| DATE     | REV | DESCRIPTION             |
|----------|-----|-------------------------|
| 05-27-25 | A   | ISSUED FOR SCDES REVIEW |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |
|          |     |                         |

PROJECT NO: 251-001  
CAD DWG:  
DRAWN BY: RCH  
CHECKED BY: GAJ

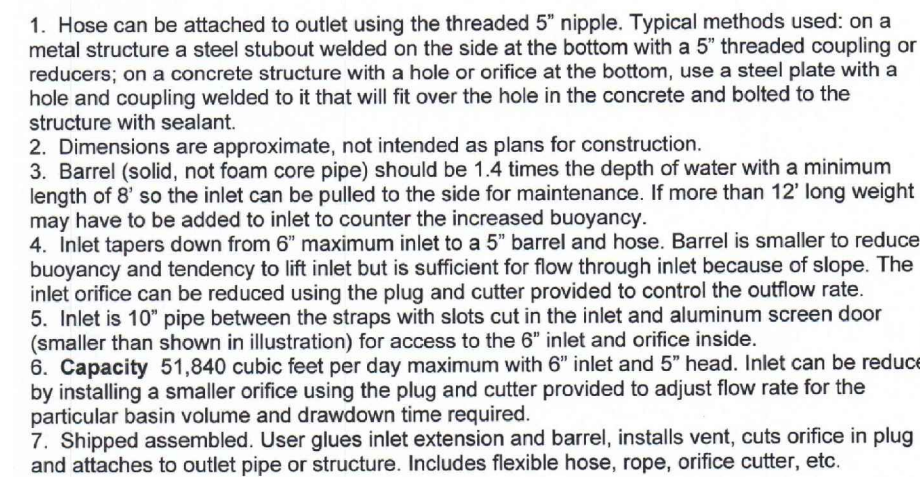
EP & SC  
NOTES & DETAILS  
(3 OF 4)

C4.3





5inchCut TM 11-07 November 14, 2007



6inchCut TM 11-07 November 14, 2007

**Warning!** The skimmer is made to withstand normal handling and the filling and draining of the sediment basin but it cannot withstand being yanked around with a backhoe. Use the rope to carefully manually position the skimmer or move it out of the way of heavy equipment for excavation.

Erosion control (temporary and permanent stabilization) and controlling runoff within the catchment is essential to prevent sediment generation, prevent pollution, and reduce basin maintenance. When the sediment storage in the basins fills maintenance is required to restore the treatment volume in order to maintain basin efficiency.

Sediment removal is needed before sediment accumulates up to the crest of the weir in the first baffle. Excavate the sediment from the entire basin to restore the original sediment storage volume.

When sediment accumulates around the skimmer to the point it cannot settle low enough to drain the entire basin sediment removal is required.

Excavate the entire cell formed by the baffle, not just around the skimmer.

Excavate the entire cell formed by the baffle, not just around the skimmer.

**Baffles**  
Make repairs if damaged, the posts are laid over, water is flowing underneath, or the fabric has fallen. If water or sediment is escaping around the ends tie the ends into the side of the basin.

**Trash** If the skimmer is clogged with trash and there is water in the basin, usually a few jerks on the rope to make the skimmer bob up and down will dislodge the debris and restore flow. If this does not work pull the skimmer over to the side (it's easiest to do when the basin is partially full) and remove the debris. Also check the orifice inside the skimmer to see if it is clogged; if so remove the debris.

**Sediment Under the Skimmer** If sediment accumulates to the point the skimmer cannot settle low enough to drain the entire basin pull the skimmer over to one side and excavate the sediment with a backhoe.

**Clogged barrel or pipe through the dam.** If the skimmer is clogged despite removing debris and it appears that either the barrel between the orifice and the flexible joint or the pipe through the dam is clogged take the following steps to clear the blockage (sediment will sometimes accumulate in the pipe).

Pull the skimmer over to the side

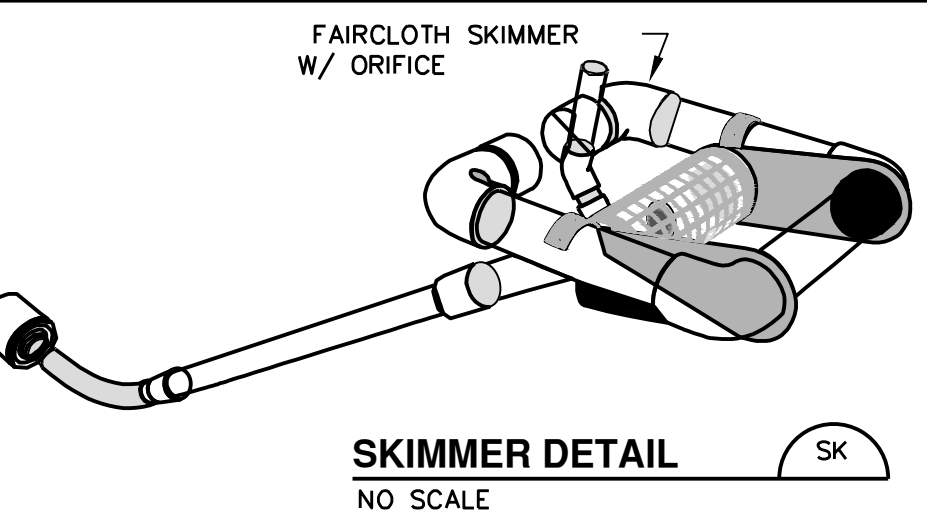
Remove the pin and open the door to access the orifice.

Remove the orifice plug or cap.

Fill the barrel with water (use a bucket and funnel or a pump) to remove the clog using the water and pressure.

After the obstruction is removed continue pouring water into the barrel to flush out accumulated debris and sediment to prevent future clogging.

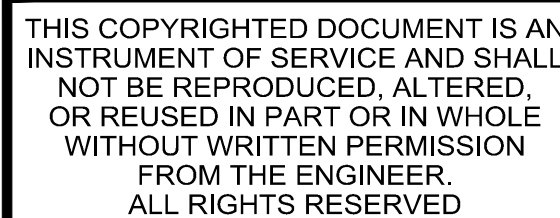
A plumbers snake can be used but flushing out the sediment and debris accumulation is recommended first.



1. SEE [WWW.FAIRCLOTHSKIMMER.COM/DOCUMENTS/SKIMMERMANUAL.PDF](http://WWW.FAIRCLOTHSKIMMER.COM/DOCUMENTS/SKIMMERMANUAL.PDF) FOR INSTALLATION & MAINTENANCE REQUIREMENTS
2. SEE FAIRCLOTH SKIMMER CUT SHEET FOR ADDITIONAL INFORMATION.



1. SEE SKIMMER DETAIL. THIS SH. SKIMMER SHALL BE REMOVED AFTER FINAL STABILIZATION OF SITE.
2. CONSTRUCT DAM IN ≤ 6" LIFTS OF SUITABLE CLAY SOIL COMPACTED TO 95% STD. PROCTOR DENSITY AT 2% OVER OPTIMUM MOISTURE.
3. SEE SED. BASIN DETAIL, SC-01, ON SH. C4.2 FOR OUTFALL PIPE SIZES.
4. SEE POND ENLARGED PLANS FOR OUTLET & DAM-SPECIFIC ELEV., DIMENSIONS, ETC.

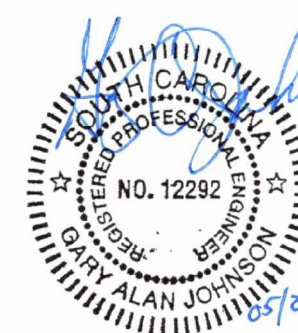


PERMITTEE / OPERATOR:



217 CEDAR ROAD  
LEXINGTON, SC 29073

**OWNER CONTACT:**  
KAYLEE JONES, Ph.D.  
kaylee.jones@heidbergmaterials.com  
864-308-7850



**MINE PERMIT #I-002444**

7955 MONTICELLO RD.  
COLUMBIA, SC 29203

TAX MAP NO. R07700-01-05

|             |         |
|-------------|---------|
| PROJECT NO: | 251-001 |
| CAD DWG:    |         |
| DRAWN BY:   | RCH     |
| CHECKED BY: | GAJ     |

EP & SC  
NOTES & DETAILS  
(4 OF 4)

## C4.4





## C5.1

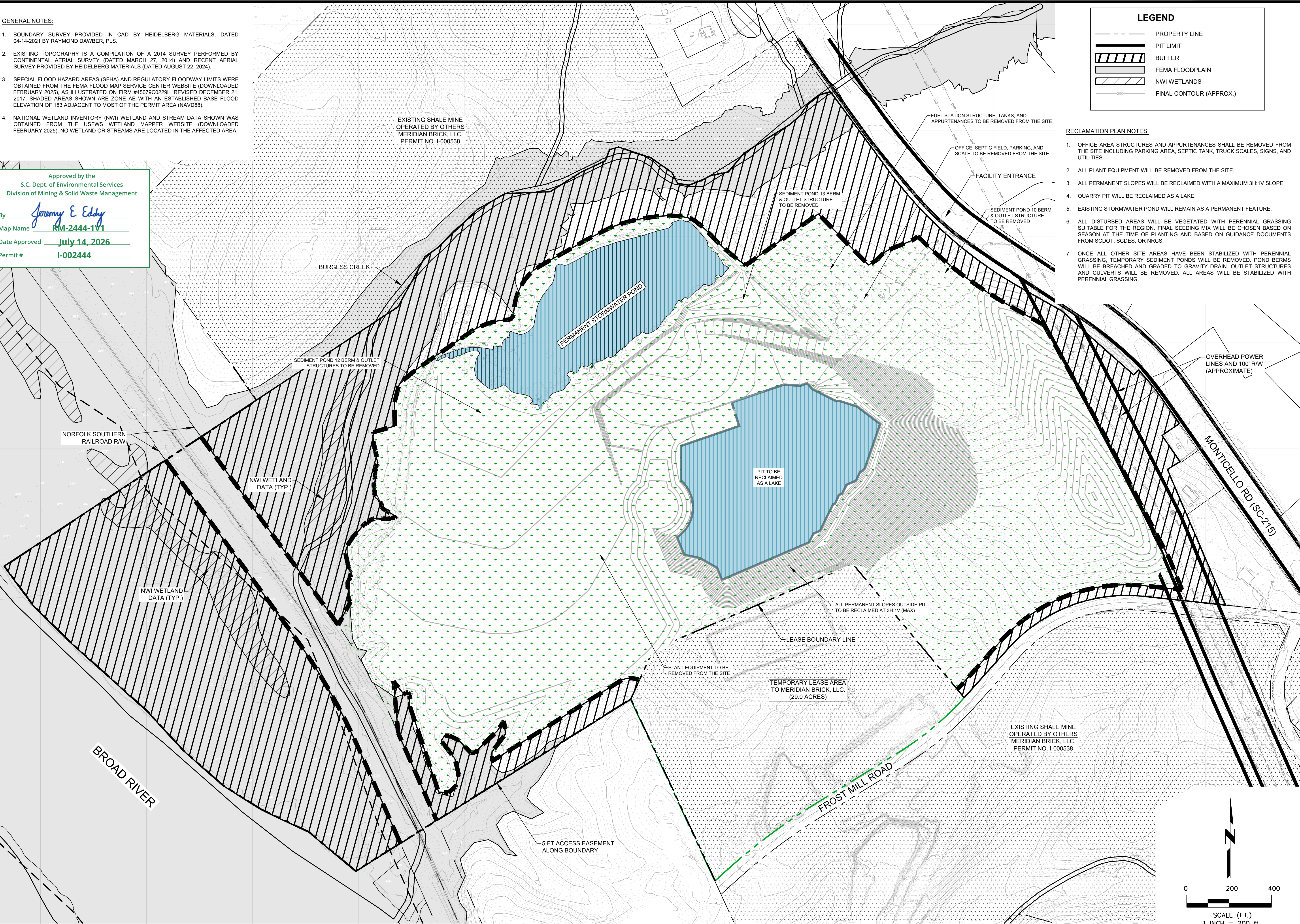


GENERAL NOTES:

- BOUNDARY SURVEY PROVIDED IN CAD BY HEIDELBERG MATERIALS, DATED 04-14-2021 BY RAYMOND DAWBER, PLS.
- EXISTING TOPOGRAPHY IS A COMPILATION OF A 2014 SURVEY PERFORMED BY CONTINENTAL AERIAL SURVEY (DATED MARCH 27, 2014) AND RECENT AERIAL SURVEY PROVIDED BY HEIDELBERG MATERIALS (DATED AUGUST 22, 2024).
- SPECIAL FLOOD HAZARD AREAS (SFHA) AND REGULATORY FLOODWAY LIMITS WERE OBTAINED FROM THE FEMA FLOOD MAP SERVICE CENTER WEBSITE (DOWNLOADED FEBRUARY 2025), AS ILLUSTRATED ON FIRM #45079C0229L, REVISED DECEMBER 21, 2017. SHADED AREAS SHOWN ARE ZONE AE WITH AN ESTABLISHED BASE FLOOD ELEVATION OF 183 ADJACENT TO MOST OF THE PERMIT AREA (NAVDB88).
- NATIONAL WETLAND INVENTORY (NWI) WETLAND AND STREAM DATA SHOWN WAS OBTAINED FROM THE USFWS WETLAND MAPPER WEBSITE (DOWNLOADED FEBRUARY 2025). NO WETLAND OR STREAMS ARE LOCATED IN THE AFFECTED AREA.

Approved by the  
S.C. Dept. of Environmental Services  
Division of Mining & Solid Waste Management

By Jeremy E. Eddy  
Map Name RM-2444-1V1  
Date Approved July 14, 2026  
Permit # I-002444



LEGEND

- PROPERTY LINE
- PIT LIMIT
- BUFFER
- FEMA FLOODPLAIN
- NWI WETLANDS
- FINAL CONTOUR (APPROX.)

RECLAMATION PLAN NOTES:

- OFFICE AREA STRUCTURES AND APPURTENANCES SHALL BE REMOVED FROM THE SITE INCLUDING PARKING AREA, SEPTIC TANK, TRUCK SCALES, SIGNS, AND UTILITIES.
- ALL PLANT EQUIPMENT WILL BE REMOVED FROM THE SITE.
- ALL PERMANENT SLOPES WILL BE RECLAIMED WITH A MAXIMUM 3H:1V SLOPE.
- QUARRY PIT WILL BE RECLAIMED AS A LAKE.
- EXISTING STORMWATER POND WILL REMAIN AS A PERMANENT FEATURE.
- ALL DISTURBED AREAS WILL BE VEGETATED WITH PERENNIAL GRASSING SUITABLE FOR THE REGION. FINAL SEEDING MIX WILL BE CHOSEN BASED ON SEASON AT THE TIME OF PLANTING AND BASED ON GUIDANCE DOCUMENTS FROM SCDOT, SDES, OR NRCS.
- ONCE ALL OTHER SITE AREAS HAVE BEEN STABILIZED WITH PERENNIAL GRASSING, TEMPORARY SEDIMENT PONDS WILL BE REMOVED. POND BERMS WILL BE BREACHED AND GRADED TO GRAVITY DRAIN. OUTLET STRUCTURES AND CULVERTS WILL BE REMOVED. ALL AREAS WILL BE STABILIZED WITH PERENNIAL GRASSING.

INITIAL PIT - RECLAMATION PLAN  
SCALE: 1"=200'



THIS COPYRIGHTED DOCUMENT IS AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED, OR REUSED IN PART OR IN WHOLE WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. ALL RIGHTS RESERVED

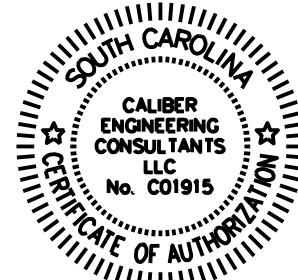
PERMITTEE / OPERATOR:



HEIDELBERG MATERIALS  
SOUTHEAST AGG, LLC.

217 CEDAR ROAD  
LEXINGTON, SC 29073

OWNER CONTACT:  
KAYLEE JONES, Ph.D.  
kaylee.jones@heidelbergmaterials.com  
864-308-7650



MANNING QUARRY

MINE PERMIT #I-002444

7955 MONTICELLO RD.  
COLUMBIA, SC 29203

TAX MAP NO. R07700-01-05

| DATE     | REV | DESCRIPTION            |
|----------|-----|------------------------|
| 05-27-25 | A   | ISSUED FOR SDES REVIEW |
|          |     |                        |
|          |     |                        |
|          |     |                        |
|          |     |                        |
|          |     |                        |
|          |     |                        |
|          |     |                        |
|          |     |                        |
|          |     |                        |

PROJECT NO: 251-001  
CAD DWG:  
DRAWN BY: RCH  
CHECKED BY: GAJ

INITIAL PIT  
RECLAMATION  
PLAN

C2.5